# **Oregon Street Business Park Design Review/Variance Application**

Date:	June 2021 Revised June 2022
Submitted to:	City of Sherwood Planning Department 22560 SW Pine Street Sherwood, OR 97140
Applicant:	Oregon Street Business Park, LLC PO Box 1489 Sherwood, OR 97140
AKS Job Number:	7971



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Applicants/ Property Owners:	Oregon Street Business Park, LLC PO Box 1489 Sherwood, OR 97140	
Applicant's Consultant:	AKS Engineering & Forestry, LLC 12965 SW Herman Road, Suite 100 Tualatin, OR 97062	
	Contact: Email: Phone:	Mimi Doukas, AICP, RLA mimid@aks-eng.com (503) 563-6151
Site Location:	21720 SW Oregon Street, Sherwood, OR 97140 Southeast of SW Oregon Street, southwest and northeast of SW Tonquin Road, Sherwood, OR	
Assessor's Map:	Washington County Assessor's Map 2S 1 28C Lot 500	
Site Size:	±9.53 acres	
City Zoning:	Employment Industrial (EI)	



# I. Executive Summary

Oregon Street Business Park, LLC (Applicant) is seeking approval of an industrial campus located at 21720 SW Oregon Street. The project is comprised of four separate industrial buildings totaling ±115,170 square feet in building area and associated parking and maneuvering areas, trash enclosures, pedestrian circulation, landscaping, public and utility improvements, and regional stormwater management facility.

This project will result in readily available industrial space for the Tonquin Employment Area (TEA) for small businesses that otherwise likely could not purchase their own sites and construct their own facilities. The design is typical of many industrial developments nearby and focuses on making smaller, flexible spaces that are readily available for small businesses.

This application was originally submitted on June 28, 2021, and deemed complete on September 21, 2021. Public hearings were held by the City of Sherwood Planning Commission on November 29, 2021; January 11, 2022; January 25, 2022; February 1, 2022; and February 22, 2022. At these hearings, the Planning Commission heard testimony regarding the implementation of the TEA Access Management Plan placement of SW Laurelwood Way (formerly Tonquin Court) from the Applicant and neighboring property owners. On February 22, 2022, the Planning Commission hearing was continued to June 28, 2022, in order for the Applicant to revise application materials to modify the site plan, illustrate the future SW Laurelwood Way right-of-way, and revise the stormwater facility to manage regional run-off from the new street.

Due to the proximity of the new street to the project and the associated site plan changes, a "Class A" Variance was needed to prevent excess disruption to the usability of the Oregon Street Business Park site. This variance would allow the "front" setback along SW Laurelwood Way to be reduced from 20 feet to 10 feet and would allow the project to offer a similar building footprint to what had been previously proposed for the project (±120,815 square feet). The addition of a variance application to the project required an additional neighborhood meeting, held on May 31, 2022.

This written narrative, together with the preliminary plans and other documentation included in the application materials, establishes that the application complies with all applicable approval criteria of the Sherwood Zoning and Community Development Code (SZCDC). This documentation provides the basis for the City to recommend approval of the application.

# II. Site Description/Setting

The property is comprised of two bifurcated portions. The eastern and largest portion of Tax Lot 500 is referred to within this narrative as the "site." The smaller portion of Tax Lot 500 west of SW Tonquin Road is generally referred to as the "western portion" of the property within this narrative.

# **Existing Conditions**

The site is largely vacant, with several small buildings used for the Applicant's current industrial business and gravel access and parking lot. The remainder of the site is comprised of a large stand of trees, fields, and a small wetland located south and east of the SW Tonquin Road/SW Oregon Street intersection. The portion west of SW Tonquin Road is largely comprised of wetland and floodplain areas and will not be affected by this project.

The subject property was recently annexed to the City of Sherwood through Sherwood City Council Ordinance 2020-008. This property is located within the Tonquin Employment Area. This area was added



to the Urban Growth Boundary (UGB) by the Metro Council in 2004. In conjunction with Metro adding this area to the UGB, the City of Sherwood undertook extensive planning of the Tonquin Employment Area including transportation and infrastructure and adopted a Preferred Concept Plan consistent with growth in the Urban Reserve.

# **Public Utilities**

The property can be served by existing public utilities located adjacent or in close proximity to the site. There is an existing 12-inch water line in SW Oregon Street adjacent to this site's frontage that can provide service to this site. An existing 15-inch public sanitary sewer line is located ±380 feet southwest of the site. The project will connect to an adjacent project's public sanitary sewer line south of the site ultimately discharging to this existing main. There is an existing 12-inch storm sewer main located in SW Oregon Street available for connection.

Service	Provider	Size	Location	Distance from Site
Water	City of Sherwood	24 inches	SW Oregon Street	Adjacent
Water	City of Sherwood	12 inches	SW Oregon Street	Adjacent
Sanitary Sewer	City of Sherwood	15 inches	SW Oregon Street	±380 feet southwest
			Roundabout	of site
Storm Sewer	Clean Water Services	Varied	SW Oregon Street	Adjacent

# Transportation

The project site is located south of SW Oregon Street and is bisected by SW Tonquin Road. The site has frontage on SW Oregon Street, which is under the jurisdiction of Washington County, is classified as an arterial street with three lanes, and has a posted speed limit of 35 miles per hour. SW Tonquin Road is also classified as an arterial street. SW Tualatin-Sherwood Road is located less than a half mile from the site.

A portion of the site has been reserved for dedication to the City for future construction of a roundabout at the intersection of SW Oregon Street and SW Tonquin Road.

# SW Laurelwood Way (Formerly Tonquin Court)

SW Laurelwood Way is illustrated on the attached Preliminary Plans (Exhibit A). The street follows the alignment, intersection location, and street cross sections requested by the City of Sherwood.

# III. Applicable Review Criteria

# SHERWOOD ZONING AND COMMUNITY DEVELOPMENT CODE

Title 16 – Zoning and Community Development Code

# Division II. – LAND USE AND DEVELOPMENT

# Chapter 16.31 - INDUSTRIAL LAND USE DISTRICTS

#### 16.31.010 - Purpose

A. Employment Industrial (EI) - The EI zoning district provides employment areas that are suitable for, and attractive to, key industries and industry clusters that have been identified by the State of Oregon and the City's economic development strategy as important to the state and local economy. The following are preferred industry sectors for areas zoned EI: Clean Technology; Technology and Advanced Manufacturing; and Outdoor Gear and Active Wear.



Land zoned EI shall provide for large and medium-sized parcels for industrial campuses and other industrial sites that can accommodate a variety of industrial companies and related businesses. Areas zoned EI are also intended to provide the opportunity for flex building space within small- and medium-sized industrial campuses and business parks to accommodate research and development companies, incubator/emerging technology businesses, related materials and equipment suppliers, and/or spin-off companies and other businesses that derive from, or are extensions of, larger campus users and developments. Retail and commercial uses are allowed only when directly supporting area employers and employees.

Industrial establishments and support services shall not have objectionable external features and shall feature well-landscaped sites and attractive architectural design, as determined by the Hearing Authority.

**<u>Response:</u>** The project involves industrial space that will support a variety of industrial companies and related businesses, including those listed as desirable above.

#### 16.31.020 - Uses

- A. The table below identifies the land uses that are permitted outright (P), permitted conditionally (C) and not permitted (N) in the industrial zoning districts. The specific land use categories are described and defined in Chapter 16.88.
- B. Uses listed in other sections of this Code, but not within this specific table are prohibited.
- C. Any use not otherwise listed that can be shown to be consistent or associated with the uses permitted outright or conditionally in the industrial zones or contribute to the achievement of the objectives of the industrial zones may be permitted outright or conditionally, utilizing the provisions of Chapter 16.88.
- D. Additional limitations for specific uses are identified in the footnotes of this table.

Uses	EI <sup>1</sup>
Industrial	
Manufacture, compounding, processing, assembling,	
packaging, treatment, fabrication of products contained wholly	
within an enclosed building provided exterior odor and noise is	
consistent with municipal code standards and there is no	
unscreened storage and not otherwise regulated elsewhere in the	
code	Р
Distribution, warehousing and storage associated with a	
permitted use operating on the same site	Р
Distribution and warehousing up to 150,000 square feet,	
provided product(s) are stored within an enclosed building 9	Р

<sup>1</sup> See special criteria for the EI zone, 16.31.050 and the Tonquin Employment Area (TEA), 16.31.060.

<sup>2</sup> If use is mixed with another, such as a restaurant, it is considered secondary to that use and permitted, provided it occupies less than fifty (50) percent of the total area.

<sup>3</sup> Limited in size to five thousand (5,000) square feet in a single outlet and no more than twenty thousand (20,000) square feet in multiple outlets in the same development project.



<sup>4</sup>On constrained land where structures would not otherwise be permitted, provided that no natural resources such as wetland or floodplains are impacted.

<sup>5</sup>Limited to Cardlock, wholesale or facilities incidental to and solely serving an associated permitted or conditional use - no public retail fuel sales.

<sup>6</sup> See Special Criteria for Medical Marijuana Dispensary under Section 16.38.020.

<sup>7</sup> Sales and rental area Limited in size to five thousand (5,000) square feet in a single outlet and no more than twenty thousand (20,000) square feet in multiple outlets in the same development project.

<sup>8</sup> Animal boarding/kennels and pet daycare facilities entirely within an enclosed building are considered "other personal service."

<sup>9</sup> For standalone warehousing and distribution only. Warehousing and distribution associated with another approved use is ancillary and permitted without size limitations.

<sup>10</sup> These businesses are involved in the servicing and supplying of materials and equipment primarily intended for industrial, institutional, or commercial businesses. On-site sales are limited as most activity occurs electronically or off-site. Businesses may or may not be open to the general public, but sales to the general public are limited as a result of the way in which the firm operates. Products are generally delivered to the customer. Few customers, especially the general public, come to the site.

<sup>11</sup> Except for towers located within one thousand (1,000) feet of the Old Town District which are prohibited.

<sup>12</sup> See special standard criteria for hospitality and lodging uses within the Light Industrial Land Use District SZCDC 16.31.040.

**<u>Response:</u>** The planned uses involve manufacturing, distribution, and warehousing in flexible industrial building space. These criteria are met.

#### 16.31.030 - Development Standards

A. Generally

No lot area, setback, yard, landscaped area, open space, off-street parking or loading area, or other site dimension or requirement, existing on, or after, the effective date of this Code shall be reduced below the minimum required by this Code. Nor shall the conveyance of any portion of a lot, for other than a public use or right-of-way, leave a lot or structure on the remainder of said lot with less than minimum Code dimensions, area, setbacks or other requirements, except as permitted by Chapter 16.84 (Variances and Adjustments).

B. Development Standards

Except as otherwise provided, required minimum lot areas and dimensions and setbacks shall be:



Development Standards by Zone	EI
Lot area – industrial uses:	3 acres <sup>9</sup>
Lot area – commercial uses (subject to Section 16.31.050)	10,000 SF
Lot width at front property line:	100 feet
Lot width at building line:	100 feet
Front yard setback <sup>11</sup>	20 feet
Side yard setback <sup>10</sup>	None
Rear yard setback <sup>11</sup>	None
Corner lot street side <sup>11</sup>	20 feet
Height <sup>11</sup>	50 feet

<sup>9</sup> Lots within the EI zone that were legal lots of record prior to October 5, 2010 and smaller than the minimum lot size required in the table below may be developed if found consistent with other applicable requirements of Chapter 16.31 and this Code. Further subdivision of lots smaller than three acres shall be prohibited unless Section 16.31.050 applies.

<sup>10</sup> When a yard is abutting a residential zone or public park, there shall be a minimum setback of forty (40) feet provided for properties zoned Employment Industrial and Light Industrial zones, and a minimum setback of fifty (50) feet provided for properties zoned General Industrial.

<sup>11</sup> Structures located within one hundred (100) feet of a residential zone shall be limited to the height requirements of that residential zone.

**Response:** The lot area is ±9.58 acres, the existing lot width is greater than 100 feet, and the proposed setbacks are greater than 20 feet along the front lot lines of SW Oregon Street and SW Tonquin Road. A variance for a reduction in front yard setback has been included for the frontage of the site along SW Laurelwood Way and a small area at the southeast corner of the site. The project site is not located adjacent to or within 100 feet of a park or residential zone. The height of the buildings proposed is less than the district maximum of 50 feet, at 23 feet, 6 inches (Sheet EX-1, Exhibit A) per structure. These criteria are met.

#### 16.31.050 - Employment Industrial (EI) Restrictions

- A. Use Restrictions
  - 1. Retail and professional services that cater to daily customers, such as restaurants and financial, insurance, real estate, legal, medical and dental offices, shall be limited in the EI zone.
    - a. New buildings for stores, branches, agencies or other retail uses and services shall not occupy more than five thousand (5,000) square feet of sales or service area in a single outlet and no more than twenty thousand (20,000) square feet of sales or service area in multiple outlets in the same development project, and
    - b. New buildings for stores, branches, agencies or other retail uses and services shall not be located on lots or parcels smaller than five acres in size. A "development project" includes all improvements proposed through a site plan application.
  - 2. Notwithstanding the provisions of Section 16.31.050 "Commercial Nodes Use Restrictions," commercial development permitted under 16.31.050(1)(a) may only be



proposed concurrent with or after industrial development on the same parcel. Commercial development may not occur prior to industrial development on the same parcel.

**<u>Response:</u>** Commercial uses are not proposed as part of the project. The criteria are met.

- B. Land Division Restrictions
  - 1. Lots of record prior to October 5, 2010 that are smaller than the minimum lot size required in the EI zone may be developed if found consistent with other applicable requirements of Chapter 16.31 and this Code. Further subdivision of lots smaller than three acres shall be prohibited unless Section 16.31.050 applies.
  - 2. Lots or parcels larger than fifty (50) acres may be divided into smaller lots and parcels pursuant to a planned unit development approved by the city so long as the resulting division yields at least one lot or parcel of at least fifty (50) acres in size.
  - 3. Lots or parcels fifty (50) acres or larger, including those created pursuant to subsection (2) above, may be divided into any number of smaller lots or parcels pursuant to a planned unit development approved by the city so long as at least forty (40) percent of the area of the lot or parcel has been developed with industrial uses or uses accessory to industrial use.
- **Response:**Land divisions have not been planned as part of this project, and the subject property is<br/>±9.5 acres in size, meeting the minimum size requirement for the Employment Industrial<br/>(EI) zoning district. These criteria are not applicable.
  - 16.31.060 Tonquin Employment Area (TEA) Commercial Nodes Use Restrictions modified
    - A. Within the Tonquin Employment Area (TEA), only commercial uses that directly support industrial uses located within the TEA are permitted as conditional uses.
    - B. Commercial development, not to exceed a total of five contiguous acres in size, may be permitted.
    - C. Commercial development may not be located within three hundred (300) feet of SW 124th Avenue or SW Oregon Street, and must be adjacent to the proposed east-west collector street.
- **<u>Response:</u>** Because of the project site's location within 300 feet of SW Oregon Street, and not adjacent to the proposed east-west collector street, commercial development is not proposed. As a result, these criteria are not applicable.

#### 16.31.070 - Community Design

For standards relating to off-street parking and loading, energy conservation, historic resources, environmental resources, landscaping, access and egress, signs, parks and open space, on-site storage, and site design, the applicable provisions of Divisions V, VIII and IX will apply.

**<u>Response:</u>** The applicable standards are addressed later within this narrative.



#### 16.31.080 - Floodplain

#### Except as otherwise provided, Section 16.134.020 shall apply.

**Response:** The project site is not located within a floodplain; however, the western portion of the property is within a floodplain area. Stormwater runoff from the site is planned to flow to a floodplain area. The applicable standards are addressed later within this narrative.

#### Chapter 16.58 - VISION CLEARANCE AND FENCE STANDARDS

16.58.010 - Clear Vision Areas

- A. A clear vision area shall be maintained on the corners of all property at the intersection of two (2) streets, intersection of a street with a railroad, or intersection of a street with an alley or private driveway.
- B. A clear vision area shall consist of a triangular area, two (2) sides of which are lot lines measured from the corner intersection of the street lot lines for a distance specified in this regulation; or, where the lot lines have rounded corners, the lot lines extended in a straight line to a point of intersection, and so measured, and the third side of which is a line across the corner of the lot joining the non-intersecting ends of the other two (2) sides.
- C. A clear vision area shall contain no planting, sight obscuring fence, wall, structure, or temporary or permanent obstruction exceeding two and one-half (2<sup>1</sup>/<sub>2</sub>) feet in height, measured from the top of the curb, or where no curb exists, from the established street center line grade, except that trees exceeding this height may be located in this area, provided all branches and foliage are removed to the height of seven (7) feet above the ground on the sidewalk side and ten (10) feet on the street side.

The following requirements shall govern clear vision areas:

- 1. In all zones, the minimum distance shall be twenty (20) feet.
- 2. In all zones, the minimum distance from corner curb to any driveway shall be twenty-five(25) feet.
- 3. Where no setbacks are required, buildings may be constructed within the clear vision area.





# **Response:** Clear vision areas are required at the interim driveway intersection with SW Oregon Street, the planned location of the intersection of SW Oregon Street and SW Laurelwood Way, the intersection of SW Oregon Street and SW Tonquin Road, and the intersection of SW Tonquin Road and the unnamed right-of-way at the southern property boundary. Vision clearance requirements have been met, as demonstrated by the attached Preliminary Circulation Plan (Exhibit A). Plantings between 2½ and 7 feet in height, walls, fences, and other prohibited items have not been planned within clear vision areas. These criteria are met.

#### 16.58.020 - Fences, Walls and Hedges.

A. Purpose:

The fence standards promote the positive benefits of fences without negatively impacting the community or endangering public or vehicle safety. Fences can create a sense of privacy, protect children and pets, provide separation from busy streets, and enhance the appearance of the property by providing attractive landscape materials. The negative effect of fences can include the creation of street walls that inhibit police and community surveillance, decrease the sense of community, hinder the safe movement of pedestrians and vehicles, and create an unattractive appearance. These standards are intended to promote the positive aspects of fences and to limit the negative ones.

B. Applicability:

The following standards apply to walls, fences, hedges, lattice, mounds, and decorative toppers. These standards do not apply to sound walls and landscape features that are not hedges.

- D. Location—Non-Residential Zone:
  - 1. Fences up to eight (8) feet high are allowed along front, rear and side property lines, subject to Section 16.58.010. (Clear Vision Areas) and building department requirements.
  - 2. A sound wall is permitted when required as a part of a development review or concurrent with a road improvement project. A sound wall may not be taller than twenty (20) feet.
  - 3. Hedges up to twelve (12) feet tall are allowed.
- E. General Conditions—All Fences:
  - 1. Retaining, masonry, concrete, and modular retaining walls may not be constructed within the eight-foot public utility easement (PUE) located on the front and corner street side yards, without approval from the City Engineer.
  - 2. Fences must be structurally sound and maintained in good repair. A fence may not be propped up in any way from the exterior side.
  - 4. The finished side of the fence must face the street or the neighboring property. This does not preclude finished sides on both sides.
  - 5. Buffering: If a proposed development is adjacent to a dissimilar use such as a commercial use adjacent to a residential use, or development adjacent to an existing



farming operation, a buffer plan that includes, but is not limited to, setbacks, fencing, landscaping, and maintenance via a homeowner's association or managing company must be submitted and approved as part of the preliminary plat or site plan review process per Section 16.90.020 and Chapter 16.122.

- 6. In the event of a conflict between this Section and the clear vision standards of Section 16.58.010, the standards in Section 16.58.010 prevail.
- 7. The height of a fence or wall is measured from the actual adjoining level of finished grade measured six (6) inches from the fence. In the event the ground is sloped, the lowest grade within six (6) inches of the fence is used to measure the height.
- 8. Call before you dig (811) if placing a fence within the public utility easement (PUE) to have your utility lines located. This easement area is usually located eight (8) feet across the front yard and the side yard setback on a corner lot. Utility lines can be buried just beneath the surface.
- **<u>Response:</u>** Due to the grade of the site, retaining walls are required within several areas of the site. Fences and walls have not been planned within public utility easements (PUEs) and have not been proposed above 8 feet in height. Please see the attached Preliminary Plans (Exhibit A) for further details. These standards are understood; therefore, applicable criteria have been met or will be met upon installation of the fencing.

#### Division III. - ADMINISTRATIVE PROCEDURES

#### Chapter 16.70 - GENERAL PROVISIONS

16.70.010 - Pre-Application Conference

Pre-application conferences are encouraged and shall be scheduled to provide applicants with the informational and procedural requirements of this Code; to exchange information regarding applicable policies, goals and standards of the Comprehensive Plan; to provide technical and design assistance; and to identify opportunities and constraints for a proposed land use action. An applicant may apply at one time for all permits or zone changes needed for a development project as determined in the pre-application conference.

#### **Response:** A pre-application conference for this project was held on April 30, 2020.

#### 16.70.020 - Neighborhood Meeting

- A. The purpose of the neighborhood meeting is to solicit input and exchange information about the proposed development.
- B. Applicants of Type III, IV and V applications are required to hold a meeting, at a public location for adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject application, prior to submitting their application to the City. Affidavits of mailing, sign-in sheets and a summary of the meeting notes must be included with the application when submitted. Applicants for Type II land use action are encouraged, but not required to hold a neighborhood meeting.
- **<u>Response:</u>** As the application requires a Type IV process, a virtual neighborhood meeting was held on June 22, 2021. Another virtual neighborhood meeting was held on May 31, 2022, after



the addition of a variance to the application. Notice was provided to owners of property within 1,000 feet of the subject property. Documentation consistent with the provisions of this section is provided in Exhibit H. These criteria are met.

- 16.70.030 Application Requirements
  - A. Form

Any request for a land use action shall be made on forms prescribed and provided by the City and shall be prepared and submitted in compliance with this Code. A land use application shall be reviewed against the standards and criteria effective at the time of application submittal. Original signatures from all owners or their legal representative must be on the application form.

B. Copies

To assist in determining the compliance of proposed land use actions with the Comprehensive Plan and provisions of this Code, applicants shall submit one (1) complete electronic copy of the full application packet, one reduced ( $8\frac{1}{2} \times 11$ ) copy of the full application packet and the required number of hard copies as outlined on the applicable forms prescribed and provided by the City.

- C. Content
  - 1. In addition to the required application form, all applications for Type II-V land use approval must include the following:
    - a. Appropriate fee(s) for the requested land use action required based on the City of Sherwood Fee Schedule.
    - b. Documentation of neighborhood meeting per 16.70.020.
    - c. Tax Map showing property within at least 300 feet with scale (1" = 100' or 1" = 200') north point, date and legend.
    - d. Two (2) sets of mailing labels for property owners of record within 1,000 feet of the subject site, including a map of the area showing the properties to receive notice and a list of the property owners, addresses and tax lots. Ownership records shall be based on the most current available information from the Tax Assessor's office.
    - e. Vicinity Map showing a minimum radius of 500 feet around the property and the closest intersection of two Principal Arterial, Arterial, Collector or Neighborhood roads.
    - f. A narrative explaining the proposal in detail and a response to the Required Findings for Land Use Review for the land use approval(s) being sought.
    - g. Two (2) copies of a current preliminary title report.
    - h. Existing conditions plan drawn to scale showing: property lines and dimensions, existing structures and other improvements such as streets and



utilities, existing vegetation, any floodplains or wetlands and any easements on the property.

- i. Proposed development plans sufficient for the Hearing Authority to determine compliance with the applicable standards. Checklists shall be provided by the City detailing information typically needed to adequately review specific land use actions.
- j. A traffic study, if required by other sections of this Code.
- k. Other special studies or reports that may be identified by the City Manager or his or her designee to address unique issues identified in the pre-application meeting or during project review including but not limited to:
  - 1) Wetland assessment and delineation;
  - 2) Geotechnical report;
  - 3) Traffic study;
  - 4) Verification of compliance with other agency standards such as CWS, DSL, Army Corps of Engineers, ODOT, PGE, BPA, Washington County.
- 1. Plan sets must have:
  - The proposed name of the development. If a proposed project name is the same as or similar to other existing projects in the City of Sherwood, the applicant may be required to modify the project name.
  - 2) The name, address and phone of the owner, developer, applicant and plan producer.
  - 3) North arrow,
  - 4) Legend,
  - 5) Date plans were prepared and date of any revisions
  - 6) Scale clearly shown. Other than architectural elevations, all plans must be drawn to an engineer scale.
  - 7) All dimensions clearly shown.
  - 2. Exemptions can be made when items in 16.70.030.C.1 are not necessary in order to make a land use decision, such as for text amendments to the development code. Additional written documentation may be necessary to adequately demonstrate compliance with the criteria.

**Response:**The required materials are attached to this narrative. Land use applications are attached<br/>as Exhibit B, Preliminary Plans containing the required information are attached as Exhibit<br/>A, and other required materials as applicable. These criteria are met.

#### Chapter 16.72 - PROCEDURES FOR PROCESSING DEVELOPMENT PERMITS

#### 16.72.010 - Generally

A. Classifications

Except for Final Development Plans for Planned Unit Developments, which are reviewed per Section 16.40.030, all quasi-judicial development permit applications and legislative land use actions shall be classified as one of the following:

4. Type IV

The following quasi-judicial actions shall be subject to a Type IV review process:

- c. Site Plans Greater than 40,000 square feet of floor area, parking or seating capacity.
- e. Industrial Site Plans subject to Section 16.90.020.D.7.b.
- **<u>Response:</u>** The proposed industrial development involves ±115,170 square feet of floor area; therefore, a Type IV review process is required. The applicable criteria are included for review as part of this narrative, and these criteria are met.

#### C. Approval Criteria

- 1. The approval criteria for each development permit application shall be the approval standards and requirements for such applications as contained in this Code. Each decision made by a Hearing Authority or Appeal Authority shall list the approval criteria and indicate whether the criteria are met. It is the applicant's burden to demonstrate to the Hearing Authority and Appeal Authority how each of the approval criteria are met. An application may be approved with conditions of approval imposed by the Hearing Authority or Appeal Authority. On appeal, the Appeal Authority may affirm, reverse, amend, refer, or remand the decision of the Hearing Authority.
- 2. In addition to Section 1 above, all Type IV quasi-judicial applications shall also demonstrate compliance with the Conditional use criteria of Section 16.82.020.
- **<u>Response</u>**: The applicable approval criteria have been addressed within this narrative. These criteria are met.

#### 16.72.020 - Public Notice and Hearing

A. Newspaper Notice

Notices of all public hearings for Type III, IV and V land use actions required by this Code shall be published in a newspaper of general circulation available within the City two (2) calendar weeks prior to the initial scheduled hearing before the Hearing Authority and shall be published one additional time in the Sherwood Archer, Sherwood



Gazette or similarly local publication, no less than 5 days prior to the initial scheduled hearing before the hearing authority.

- B. Posted Notice
  - 1. Notices of all Type II, III, IV and V land use actions required by this Code shall be posted by the City in no fewer than five (5) conspicuous locations within the City, not less than fourteen (14) calendar days in advance of the staff decision on Type II applications or twenty (20) calendar days in advance of the initial hearing before the Hearing Authority for Type III, IV and V applications.
  - 2. Signage must be posted on the subject property fourteen (14) calendar days in advance of the staff decision on Type II applications and twenty (20) calendar days in advance of the initial hearing before the Hearing Authority for Type III, IV and V applications.
    - a. on-site posted notice shall provide a general description of the land use action proposed, the project number and where additional information can be obtained.
    - b. On-site posted notice shall be designed to be read by motorists passing by; the exact size and font style to be determined by the City.
    - c. On-site posted notice shall be located on the property in a manner to be visible from the public street. For large sites or sites with multiple street frontages, more than one sign may be required.
- C. Mailed Notice
  - 1. For Type II, III, IV and V actions specific to a property or group of properties, the City shall send written notice by regular mail to owners of record of all real property within one thousand (1,000) feet from the property subject to the land use action. Written notice shall also be sent to Oregon Department of Transportation (ODOT), Metro, the applicable transit service provider and other affected or potentially affected agencies. If the subject property is located adjacent to or split by a railroad crossing ODOT Rail Division shall also be sent public notice.
  - 2. Written notice to property owners shall be mailed at least fourteen (14) calendar days prior to a decision being made on a Type II land use action and at least twenty (20) calendar days in advance of the initial public hearing before the Hearing Authority. If two (2) or more hearings are required on a land use action, notices shall be mailed at least ten (10) calendar days in advance of the initial hearing before the Commission or Council.
  - 3. For the purposes of mailing the written notice, the names and addresses of the property owners of record, as shown on the most recent County Assessor's records in the possession of the City, shall be used. Written notice shall also be mailed to homeowners associations when the homeowners association owns common property within the notification area and is listed in the County Assessor's records.



- 4. For written notices required by this Code, other than written notices to property owners of record, the City shall rely on the address provided by the persons so notified. The City shall not be responsible for verifying addresses so provided.
- 5. If a zone change application proposes to change the zone of property which includes all or part of a manufactured home park, the City shall give written notice by first class mail to each existing mailing address for tenants of the manufactured home park at least twenty (20) days but not more than forty (40) days before the date of the first hearing on the application. Such notice costs are the responsibility of the applicant.

#### 16.72.030 - Content of Notice

Public notices shall include the following information:

- A. The nature of the application and proposed use(s).
- **B.** A list of the applicable Code or Comprehensive Plan criteria to be applied to the review of the proposed land use action.
- C. The location and street address of the property subject to the land use action (if any).
- D. The date, time, place, location of the public hearing.
- E. The name and telephone number of a local government representative to contact for additional information.
- F. The availability of all application materials for inspection at no cost, or copies at reasonable cost.
- G. The availability of the City planning staff report for inspection at no cost, or copies at a reasonable cost, at least seven (7) calendar days in advance of the hearing.
- H. The requirements for the submission of testimony and the procedures for conducting hearings, including notice that failure to raise an issue accompanied by statements or evidence sufficient to offer the City, applicant or other parties to the application the opportunity to respond, will preclude appeal on said issue to the Council or to the State Land Use Board of Appeals (LUBA).

**<u>Response:</u>** Noticing is performed by the City; however, these standards are understood.

#### **Division IV. – PLANNING PROCEDURES**

#### Chapter 16.82 -CONDITIONAL USES

#### 16.82.010 - Generally

A. Authorization

Uses permitted in zoning districts as conditional uses may be established, enlarged, or altered by authorization of the Commission in accordance with the standards and procedures established in this Chapter. If the site or other conditions are found to be inappropriate for the use requested, the Commission or Hearings Officer (cited below as Hearing Authority) may deny the conditional use.



- **<u>Response:</u>** The uses proposed are permitted within the Employment Industrial (EI) zoning district. A conditional use permit has not been requested at this time; however, the application must meet the conditional use standards per Section 16.72.010(C)(2).
  - B. Changes in Conditional Uses

Changes in use or expansion of a legal non-conforming use, structure or site, or alteration of structures or uses classified as conditional uses, that either existed prior to the effective date of this Code or were established pursuant to this Chapter shall require the filing of a new application for review conforming to the requirements of this Chapter if the proposed changes would increase the size, square footage, seating capacity or parking of existing permitted improvements by twenty percent (20%) or more.

**Response:** Changes to a conditional use have not been proposed. These criteria do not apply.

C. Application and Fee

An application for a Conditional Use Permit (CUP) shall be filed with the City and accompanied by the appropriate fee pursuant to Section 16.74.010. The applicant is responsible for submitting a complete application which addresses all criteria of this Chapter and other applicable sections of this Code.

- **<u>Response:</u>** The appropriate application and fees have been included as part of this submittal. These criteria are met.
  - 16.82.020 Permit Approval
    - A. Hearing Authority Action
      - 1. The Hearings Authority shall conduct a public hearing pursuant to Chapter 16.72 and take action to approve, approve with conditions, or deny the application. Conditions may be imposed by the Hearings Authority if necessary to fulfill the requirements of the adopted Comprehensive Plan, Transportation System Plan, or the Code. The decision shall include appropriate findings of fact as required by this Section, and an effective date.
- **<u>Response:</u>** These standards are understood.
  - 2. Conditional uses may be approved at the hearing for a larger development (i.e. business campus or industrial park), to include future tenants of such development, if the range of uses allowed as conditional uses are considered, and specifically approved, at the time of original application.
- **Response:** Any uses permitted conditionally within the Employment Industrial district that may be considered on the project site can obtain approval when under consideration. This Type IV site plan review application demonstrates compliance with the conditional use criteria of this section.
  - B. Final Site Plan

Upon approval of a conditional use by the Hearing Authority, the applicant shall prepare a final site plan for review and approval pursuant to Section 16.90. The final site plan shall include any



revisions or other features or conditions required by the Hearing Authority at the time of the approval of the conditional use.

- **<u>Response</u>**: A final site plan with revisions or other features or conditions required by the Hearing Authority will be provided for review and approval. These criteria will be met upon submittal of a future application.
  - C. Use Criteria

No conditional use shall be granted unless each of the following is found:

- 1. All public facilities and services to the proposed use, including but not limited to sanitary sewers, water, transportation facilities, and services, storm drains, electrical distribution, park and open space and public safety are adequate; or that the construction of improvements needed to provide adequate services and facilities is guaranteed by binding agreement between the applicant and the City.
- **Response:** Water, sanitary sewer, and electrical utilities are located within SW Oregon Street and, with extension of sanitary sewer services, are available to serve the site. Stormwater is available via an outfall within the SW Tonquin Road right-of-way adjacent to the westernmost portion of Tax Lot 500. The property is located within the service districts of the Sherwood Police Department, Tualatin Valley Fire and Rescue, and Pride Waste Disposal. New transportation facilities and transportation improvements have been planned as part of this project.

The public facilities and services available to the site currently, or following improvement, are or will be adequate, and these criteria are met.

- 2. Proposed use conforms to other standards of the applicable zone and is compatible with abutting land uses in regard to noise generation and public safety.
- **Response:** The proposed use conforms to the standards of the Employment Industrial zoning district and has not been planned to create incompatible levels of noise generation or safety issues with abutting land uses. The site is surrounded by the Employment Industrial zoning district to the east and south and Light and General Industrial zoning districts to the west and north. The Rock Creek corridor is located west of the project site and SW Tonquin Road. This area provides a buffer between the site and a residential area ±650 feet from the site. These criteria are met.
  - 3. The granting of the proposal will provide for a facility or use that meets the overall needs of the community and achievement of the goals and/or policies of the Comprehensive Plan, the adopted City of Sherwood Transportation System Plan and this Code.
- **Response:** The currently underdeveloped site is projected to host a portion of the 3,520 jobs forecasted within the Tonquin Employment Area at buildout (TEA Final Concept Plan, September 2010). The proposed development will provide building space for a variety of industrial companies and related businesses. These small and medium-sized "flex"



building spaces are designed to provide leasable space for emerging businesses and those sectors targeted for the EI zoning district. Development of this site will create leasable building area to meet the needs of smaller businesses, providing additional employment within the City.

The development is proposed to access the street network via a driveway onto SW Laurelwood Way. SW Laurelwood Way provides access to SW Oregon Street, an arterial street. The attached Traffic Impact Analysis (TIA) (Exhibit G) demonstrates that the planned uses will not generate traffic in the area in excess of that identified as appropriate in the Sherwood Transportation System Plan. The street network planned satisfies the intent of the TEA Concept Plan and, thus, the Transportation System Plan by minimizing disruption of the TEA's large industrial properties and illustrating the City's preferred transportation network through this area of the Tonquin Employment Area.

These criteria are met.

- 4. Surrounding property will not be adversely affected by the use, or that the adverse effects of the use on the surrounding uses, the neighborhood, or the City as a whole are sufficiently mitigated by the conditions proposed.
- **Response:** Surrounding properties and nearby uses, neighborhoods, and the City as a whole are not planned to be adversely impacted by the proposed project. Many of the surrounding uses within this and nearby zoning districts are similarly industrial in nature. Residential properties are located ±750 feet to the west; however, these areas are buffered from the project site by the Rock Creek corridor, SW Tonquin Road, and SW Murdock Road rights-of-way. This criterion is met.
  - 5. The impacts of the proposed use of the site can be accommodated considering size, shape, location, topography and natural features.
- **Response:** The proposed use accommodates the size, shape, location, topography, and natural features in and surrounding the site. The project proposes to leverage the topography of the site to provide stormwater quality facilities within the lowest point at the southwest corner of the site east of SW Tonquin Road. While many trees on the site require removal to accommodate the grading needed to access SW Laurelwood Way and create usable building envelopes, several trees are planned for preservation, as feasible. This criterion is met.
  - 6. The use as proposed does not pose likely significant adverse impacts to sensitive wildlife species or the natural environment.
- **<u>Response:</u>** The site is the location of Class I Riparian Habitat and Class A Upland Habitat, as mapped by Metro. The project proposes impacts to the on-site wetland and vegetated corridor. A natural resources assessment is attached (Exhibit E), which determined that there are no sensitive wildlife species present on the site. These criteria are met.

[...]

D. Additional Conditions



In permitting a conditional use or modification of an existing conditional use, additional conditions may be applied to protect the best interests of the surrounding properties and neighborhoods, the City as a whole, and the intent of this Chapter. These conditions may include but are not limited to the following:

- 1. Mitigation of air, land, or water degradation, noise, glare, heat, vibration, or other conditions which may be injurious to public health, safety or welfare in accordance with environmental performance standards.
- **<u>Response:</u>** The project does not anticipate the degradation of air, land, or water or the creation of noise, glare, heat, vibration, or other conditions which may be injurious to public health, safety, or welfare. The site will operate in accordance with applicable environmental performance standards and be typical of industrial districts. These criteria are met.
  - 2. Provisions for improvement of public facilities including sanitary sewers, storm drainage, water lines, fire hydrants, street improvements, including curb and sidewalks, and other above and underground utilities.
- **<u>Response:</u>** The project involves the improvement of public facilities to the applicable standards for sanitary sewers, storm drainage, water lines, fire hydrants, street improvements, and other utilities. These improvements are described elsewhere within this report and within the applicable sheets within the Preliminary Plans (Exhibit A). Therefore, these criteria are met.
  - 3. Increased required lot sizes, yard dimensions, street widths, and off-street parking and loading facilities.
- **Response:** The project site within the Employment Industrial zoning district meets the required lot sizes and yard dimensions. Street right-of-way is planned to be provided for needed public street and sidewalks. Off-street parking and loading facilities meet the applicable standards. Additional, increased requirements have not been anticipated.
  - 4. Requirements for the location, number, type, size or area of vehicular access points, signs, lighting, landscaping, fencing or screening, building height and coverage, and building security.
- **<u>Response:</u>** These standards are reviewed elsewhere within this report, and the applicable criteria have been met.
  - 5. Submittal of final site plans, land dedications or money-inlieu of parks or other improvements, and suitable security guaranteeing conditional use requirements.
- Response:Parks and other improvements are not planned as part of this application. Right-of-way<br/>dedications for SW Laurelwood Way, along SW Oregon Street, and for the SW Oregon<br/>Street/SW Tonquin Road roundabout have been planned.
  - 6. Limiting the number, size, location, height and lighting of signs.
- **<u>Response:</u>** Specific signage and other details have not been proposed as part of this application. This criterion does not apply.



- 7. Requirements for the protection and preservation of existing trees, soils, vegetation, watercourses, habitat areas and drainage areas.
- **<u>Response:</u>** Where practicable, existing trees, soils, vegetation, watercourses, habitat areas, and drainage areas have been preserved.
  - 8. Requirements for design features which minimize potentially harmful environmental impacts such as noise, vibration, air pollution, glare, odor and dust.
- **<u>Response:</u>** The proposed development is not planned to increase harmful environmental impacts such as noise, vibration, air pollution, glare, odor, or dust as outlined within review of the standards of SZCDC Sections 16.146 to 16.156. This criterion is met.
  - E. Time Limits

Unless approved under Section 16.82.020.A.2 for a larger development to include future tenants of such development, authorization of a conditional use shall be void after two (2) years or such lesser time as the approval may specify unless substantial construction, in the City's determination, has taken place. The Hearing Authority may extend authorization for an additional period, not to exceed one (1) year, upon a written request from the applicant showing adequate cause for such extension, and payment of an extension application fee as per Section 16.74.010.

F. Revocation

Any departure from approved plans not authorized by the Hearing Authority shall be cause for revocation of applicable building and occupancy permits. Furthermore, if, in the City's determination, a condition or conditions of CUP approval are not or cannot be satisfied, the CUP approval, or building and occupancy permits, shall be revoked.

#### **<u>Response:</u>** These standards are understood.

#### Chapter 16.84 - VARIANCES

#### 16.84.010 - Purpose

This Chapter provides standards and procedures for variances, which are modifications to land use or development standards that are not otherwise permitted elsewhere in this Code as exceptions to Code standards. This Chapter provides flexibility, while maintaining the purposes and intent of the Code. No variances shall be granted to allow the use of property for a purpose not authorized within the zone in which the proposed use is located. In granting a variance, conditions may be imposed when necessary to protect the best interests of surrounding properties and neighborhoods, and otherwise achieve the purposes of the adopted Comprehensive Plan, the Transportation System Plan, and other Code provisions.

#### 16.84.020 – Applicability

A. Exceptions and Modifications versus Variances

A code standard or approval criterion may be modified without approval of a variance if the applicable code section expressly allows exceptions or modifications. If the code provision does not expressly provide for exceptions or modifications then a variance is required to modify that code section and the provisions of Chapter 16.84 apply.



B. Combining Variances with Other Approvals; Permit Approvals by Other Agencies.

Variance requests may be combined with and reviewed concurrently by the City approval body with other land use and development applications (e.g., development review, site plan review, subdivision, conditional use, etc.); however, some variances may be subject to approval by other permitting agencies, such as ODOT in the case of State Highway access.

- C. Adjustments and variances cannot be applied to change any existing Planned Unit Development (PUD).
- **Response:** The Applicant is pursuing a variance for building setbacks as a component of land use approval concurrent with the Site Design Review.

#### 16.84.030 - Types of Variances

As provided in this Section, there are three types of variances: Adjustments, Class A variance and Class B variance; the type of variance required depends on the extent of the variance request and the discretion involved in the decision making process.

[...]

- C. Class A Variances
  - 1. Generally
    - a. The Class A variance procedure may be used to modify a standard for three (3) or fewer lots, including lots yet to be created through a partition process.
    - b. An applicant who proposes to vary a standard for lots yet to be created through a subdivision process may not utilize the Class A variance procedure. Approval of a Planned Unit Development shall be required to vary a standard for lots yet to be created through a subdivision process, where a specific code section does not otherwise permit exceptions.
    - c. A Class A Variance shall not be approved that would vary the "permitted, conditional or prohibited uses" of a land use district.
- **<u>Response:</u>** The requested variance would modify a standard for only one lot, the subject site. The Class A Variance does not vary permitted, conditional, or prohibited uses of the Employment Industrial land use district. These criteria are met.
  - 2. Approval Process:
    - a. Class A Variances shall be processed using a Type IV procedure, as governed by Chapter 16.84, using the approval criteria in subsection 3, below.
    - b. In addition to the application requirements contained in Chapter 16.72.010, the applicant shall provide a written narrative describing the reason for the variance, why it is required, alternatives considered, and compliance with the criteria in subsection 3.



#### **<u>Response:</u>** These standards are understood. The project requires a Type IV review procedure.

The variance is being requested to modify the requirements of Section 16.31.030.B to permit a reduced front setback for buildings within the Employment Industrial zoning district. The variance would reduce the required 20-foot front setback to 10 feet along the site's eastern boundary and at southeastern corner of Building 4. The adverse conditions requiring this variance are outlined below. These criteria are met.

- 3. Approval Criteria: The City shall approve, approve with conditions, or deny an application for a Class A Variance based on the following criteria:
  - a. The proposed variance will not be materially detrimental to the purposes of this Code, to any other applicable policies and standards, and to other properties in the same land use district or vicinity;
- **Response:** The nature of the site's zoning, use, and circumstances provides that the variance will not be materially detrimental to the purposes of the SZCDC or other applicable policies, standards, or neighboring properties. The Employment Industrial zoning district has only one listed setback standard—front yard setbacks. Side and rear setbacks are not required within the zoning district, and the standards permit zero-setback structures to be constructed.

The location of the variance is shielded from view from local residential districts through the adjacent Rock Creek corridor, several rights-of-way, and the project buildings themselves. The reduced setback will be visible from the adjacent Sherwood Commerce Center project and SW Laurelwood Way, an industrial local street that is not proposed to serve through traffic. The appearance of the buildings is also proposed to be softened by dense landscape plantings along the building and by street trees along the length of SW Laurelwood Way.

- b. A hardship to development exists which is peculiar to the lot size or shape, topography, or other similar circumstances related to the property over which the applicant has no control, and which are not applicable to other properties in the vicinity (e.g., the same land use district);
- **Response:** The project site is peculiar in a number of ways. The shape of the site is detrimental to development of the site as it requires the concentration of buildings at the center and eastern portions of the site—where industrial multi-tenant buildings, typically long and narrow, can be located. The topography of the site precludes the effective use of the western portions of the site, which must instead be used for a stormwater facility or would require large amounts of fill to elevate the ground above the adjacent rights-of-way for the purposes of development. Similarly, the Applicant's property is unlike other properties in the area in that it is completely surrounded by rights-of-way. The applicant has no control over the amount of street frontage available. All of these factors create a hardship to development of the site.



While being only ±9.53 acres in size, the site is surrounded by rights-of-way, requiring a number of front yard setbacks. Since the property abuts SW Oregon Street, SW Tonquin Road, SW Laurelwood Way, and an unnamed right-of-way to the south of the property, 20-foot front yard setbacks are required along each of these frontages. Dedication of right-of-way was required along each of these streets with the exception of the unnamed right-of-way to the south, further reducing the buildable area of the site. The unnamed right-of-way, however, is unlikely to be developed as a street and may be vacated in the future. Should the right-of-way be vacated, the property line would function as a side or rear property line, which has no minimum required setback within the Employment Industrial district. The granting of a variance along this portion of the property would have little to no impact on adjacent properties as a result.

The location of SW Laurelwood Way requires a significant reduction in the building area that can be constructed on the site, originally  $\pm 120,815$  square feet. Without the requested variance, the currently proposed project ( $\pm 115,170$  square feet), would result in a further reduction in buildable area ( $\pm 5.3$  percent).

- c. The use proposed will be the same as permitted under this title and City standards will be maintained to the greatest extent that is reasonably possible while permitting reasonable economic use of the land;
- **<u>Response:</u>** The proposed use of the property will not be altered by the requested variance. The variance will not apply to other portions of the site with front setbacks and is the minimum variance needed to accomplish the reasonable economic use of the land.
  - d. Existing physical and natural systems, such as but not limited to traffic, drainage, natural resources, and parks will not be adversely affected any more than would occur if the development occurred as specified by the subject Code standard;
- **<u>Response:</u>** The requested variance will not adversely affect existing physical or natural systems in the area. Access, traffic, drainage, natural resources, and parks are anticipated to be unaffected by the front yard setback variance.

e. The hardship is not self-imposed; and

**Response:** The hardship is caused by external factors outside the control of the Applicant such as site shape, topography, and road orientation.

- f. The variance requested is the minimum variance that would alleviate the hardship.
- **<u>Response:</u>** The requested variance is the minimum needed to alleviate the hardship. The reduced setback will allow a 10-foot front yard in the affected areas: a 50 percent reduction rather than one that would match the side and rear yard requirements of the zoning district. The requested variance will not apply to other areas of the site where front yard setbacks also apply.



#### **Division V. - COMMUNITY DESIGN**

#### Chapter 16.90 - SITE PLANNING\*

#### [...]

16.90.020 - Site Plan Review

A. Site Plan Review Required

Site Plan review is required prior to any substantial change to a site or use that does not meet the criteria of a minor or major modification, issuance of building permits for a new building or structure, or for the substantial alteration of an existing structure or use.

For the purposes of Section 16.90.020, the terms "substantial change" and "substantial alteration" mean any development activity as defined by this Code that generally requires a building permit and may exhibit one or more of the following characteristics:

- 1. The activity alters the exterior appearance of a structure, building or property and is not considered a modification.
- 2. The activity involves changes in the use of a structure, building, or property from residential to commercial or industrial and is not considered a modification.
- 3. The activity involves non-conforming uses as defined in Chapter 16.48.
- 4. The activity constitutes a change in a City approved plan, per Section 16.90.020 and is not considered a modification.
- 5. The activity is subject to site plan review by other requirements of this Code.
- 6. The activity increases the size of the building by more than 100% (i.e. the building more than doubles in size), regardless of whether it would be considered a major or minor modification.
- B. Exemption to Site Plan Requirement
  - 1. Single and two family uses
  - 2. Manufactured homes located on individual residential lots per Section 16.46.010, but including manufactured home parks.
- C. Reserved
- **Response:** These standards are understood. A site plan review is required, and the materials needed for such a review are provided as part of this application.
  - D. Required Findings

No site plan approval will be granted unless each of the following is found:

- 1. The proposed development meets applicable zoning district standards and design standards in Division II, and all provisions of Divisions V, VI, VIII and IX.
- **<u>Response:</u>** The findings in this narrative, preliminary plans, and other documentation included in this application demonstrate compliance with the listed approval criteria. This criterion is met.



- 2. The proposed development can be adequately served by services conforming to the Community Development Plan, including but not limited to water, sanitary facilities, storm water, solid waste, parks and open space, public safety, electric power, and communications.
- **Response:** The subject property can adequately be served by public urban services, which are located in adjacent or nearby rights-of-way. Stormwater will drain to the planned stormwater management facility located west of the subject site. With the addition of the SW Laurelwood Way right-of-way to the plans, compliance with the TEA Preferred Concept Plan, Transportation System Plan (TSP), and Comprehensive Plan is shown. These criteria are met.
  - 3. Covenants, agreements, and other specific documents are adequate, in the City's determination, to assure an acceptable method of ownership, management, and maintenance of structures, landscaping, and other on-site features.
- **<u>Response:</u>** Covenants, agreements, or other specific documents addressing ownership, management, and maintenance of structures, landscaping, and other on-site features are neither necessary nor planned. These criteria are met.
  - 4. The proposed development preserves significant natural features to the maximum extent feasible, including but not limited to natural drainage ways, wetlands, trees, vegetation (including but not limited to environmentally sensitive lands), scenic views, and topographical features, and conforms to the applicable provisions of Division VIII of this Code and Chapter 5 of the Community Development Code.
- **Response:** The site does not contain any identified or protected scenic views. An existing drainageway and vegetated corridor runs west of the subject site. Clean Water Services (CWS) has conducted a Sensitive Area Pre-Screening Site Assessment, verifying that the project will not significantly impact existing or potentially sensitive areas found west of SW Tonquin Road. Encroachment into these areas is unavoidable due to site topography, sanitary sewer connection, and layout needs, however, and permanent impacts to the wetland east of the SW Tonquin Road/SW Oregon Street intersection are required. A CWS Service Provider Letter is included in Exhibit J, and the project will comply with the CWS water quality protection requirements as issued. The project proposes the purchase of 0.27 acres of credits from the Tualatin Valley Environmental Bank to mitigate permanent impacts to the wetland. The applicable criteria are met.
  - 5. For developments that are likely to generate more than 400 average daily trips (ADTs), or at the discretion of the City Engineer, the applicant must provide adequate information, such as a traffic impact analysis (TIA) or traffic counts, to demonstrate the level of impact to the surrounding transportation system. The developer is required to mitigate for impacts attributable to the project, pursuant to TIA requirements in Section 16.106.080 and rough proportionality requirements in Section 16.106.090. The determination of impact or effect and the scope of the



impact study must be coordinated with the provider of the affected transportation facility.

- **Response:** Pursuant to the TIA requirements of Section 16.106.080 and the rough proportionality requirements of Section 16.106.090, a TIA was prepared by a licensed traffic engineer and rough proportionality for nearby transportation projects determined. The planned industrial complex of this size is likely to generate 572 average daily trips (ADT). This Traffic Impact Analysis is attached as Exhibit G. These criteria are met.
  - [...]
  - 7. Industrial developments provide employment opportunities for citizens of Sherwood and the region as a whole. The proposed industrial development is designed to enhance areas visible from arterial and collector streets by reducing the "bulk" appearance of large buildings. Industrial design standards include the following:
    - a. Portions of the proposed industrial development within 200 feet of an arterial or collector street and visible to the arterial or collector (i.e. not behind another building) must meet any four of the following six design criteria:
      - (1) A minimum 15% window glazing for all frontages facing an arterial or collector.
- **Response:** The site is located adjacent to and visible from two arterial streets, SW Oregon Street and SW Tonquin Road. Per the Building Elevation Exhibit (EX-1) included as part of Exhibit A, the industrial development is planned to provide a minimum of 15 percent window glazing for all frontages facing an arterial street. North elevations visible from SW Oregon Street provide 15 percent glazing. The west elevation of Building 1 visible from SW Tonquin Road provides 15.7 percent window glazing. Other building elevations are not visible from streets meeting the classification of arterial or collector. This design criterion is met for all buildings as proposed.
  - (2)
- A minimum of two (2) building materials used to break up vertical facade street facing frontages (no T-111 or aluminum siding).
- **Response:** A minimum of two building materials are proposed to break up the vertical façade of street facing frontages. Per the Building Elevation Exhibit included as part of Exhibit A, the buildings are planned to have a ledgestone base, stone band, and corrugated steel siding. This design criterion is met for all buildings as proposed.
  - (3)

Maximum thirty-five (35) foot setback for all parts of the building from the property line separating the site from all arterial or collector streets (required visual corridor falls within this maximum setback area).

**Response:** Because of the site configuration and orientation of arterial streets surrounding the site, a maximum 35-foot setback is not practicable.



- (4) Parking is located to the side or rear of the building when viewed from the arterial or collector.
- **Response:** The project site abuts four rights-of-way. The primary frontage of the site, however, is SW Laurelwood Way, which is where access to the site is planned.

**Building 1:** Portions of Building 1 are greater than 200 feet from SW Oregon Street and SW Tonquin Road, both arterial streets. Due to the industrial nature of the site and need for both delivery and fire vehicle circulation throughout the site, parking and drive aisles were required to be located alongside Building 1. Although these parking areas are to the side of the building when viewed from SW Oregon Street, the parking areas appear in front of the building. Due to the grade differences between SW Tonquin Road (between 140 feet and 145 feet) and Building 1 (167 feet Finished Floor Elevation) are generally planned to be screened from view from SW Tonquin Road. This area lies at a higher elevation when viewed from street level, and multiple tree plantings are planned between the parking area, the stormwater facility, and SW Tonquin Road.

**Building 2:** Building 2 is only visible from SW Oregon Street. When viewed from SW Oregon Street, parking is provided to the side of the building.

**Building 3:** Building 3 provides parking visible from SW Oregon Street.

**Building 4:** Building 4 is not visible from SW Oregon Street or SW Tonquin Road and is greater than 200 feet from these arterial streets. The building, however, provides parking to the side of the building when viewed from the direction of SW Oregon Street.

This design criterion is met for Buildings 2 and 4.

- (5) Loading areas are located to the side or rear of the building when viewed from the arterial or collector. If a loading area is visible from an arterial or collector, it must be screened with vegetation or a screen made of materials matching the building materials.
- **<u>Response:</u>** Loading areas are planned to be located on the side of each building of the industrial campus or screened from view by retaining walls or landscaping. This criterion is met for all buildings as proposed.
  - (6) All roof-mounted equipment is screened with materials complimentary to the building design materials.
- **<u>Response:</u>** Roof-mounted equipment has not been planned. Roof-mounted equipment, if desired in the future, is anticipated to be screened with materials complementary to the building design. Future roof-mounted equipment on Buildings 1 and 3 will be screened to comply with industrial design requirements to provide a fourth design element. Detailed elevations are available as part of Exhibit A. This criterion is met.
  - b. As an alternative to Section 16.90.020.D.7.a, an applicant may opt to have a design review hearing before the Planning Commission to demonstrate



how the proposed development meets or exceeds the applicable industrial design objectives below (this design review hearing will be processed as a Type IV review):

- (1) Provide high-value industrial projects that result in benefits to the community, consumers and developers.
- (2) Provide diversified and innovative working environments that take into consideration community needs and activity patterns.
- (3) Support the City's goals of economic development.
- (4) Complement and enhance projects previously developed under the industrial design standards identified in Section 16.90.020.D.7.
- **Response:** An alternative review to the standards of Section 16.90.020.D.7.a has not been planned; however, many of these criteria are met. The project will provide highly desirable industrial space for new and growing industrial companies. These spaces will provide diverse workspaces for area businesses to occupy that would otherwise need to locate elsewhere due to a lack of availability of small industrial suites in Sherwood. This project provides an opportunity for the community, consumers, and developers to support the City's goals of economic development by providing jobs, products, and services within Sherwood.
  - (5) Enhance the appearance of industrial developments visible from arterials and collectors, particularly those considered "entrances" to Sherwood, including but not limited to: Highway 99W, Tualatin-Sherwood Road and Oregon Street.
  - (6) Reduce the "bulk" appearance of large industrial buildings as viewed from the public street by applying exterior features such as architectural articulation, windows and landscaping.
  - (7) Protect natural resources and encourage integration of natural resources into site design (including access to natural resources and open space amenities by the employees of the site and the community as a whole).
- **<u>Response:</u>** Landscaping within visual corridors and vegetation within the stormwater facility will screen the site from SW Oregon Street and SW Tonquin Road. The industrial buildings are planned to be enhanced and framed by the appearance of landscaping. Windows and architectural material choices are planned to enhance the exterior appearance of the buildings and reduce "bulk." Natural resources, such as the wetlands on the western edge of the site near the future SW Oregon Street/SW Tonquin Road roundabout, will be enhanced with vegetation for stormwater treatment. These criteria are met.



- 8. Driveways that are more than twenty-four (24) feet in width shall align with existing streets or planned streets as shown in the Local Street Connectivity Map in the adopted Transportation System Plan (Figure 17), except where prevented by topography, rail lines, freeways, pre-existing development, or leases, easements, or covenants.
- **<u>Response:</u>** The planned driveway providing ingress and egress connects to SW Laurelwood Way. There are no additional existing or planned streets to align with the driveway. The standard is not applicable.
  - E. Approvals

The application is reviewed pursuant to Chapter 16.72 and action taken to approve, approve with conditions, or deny the application for site plan review. Conditions may be imposed by the Review Authority if necessary to fulfill the requirements of the adopted Comprehensive Plan, Transportation System Plan or the Zoning and Community Development Code. The action must include appropriate findings of fact as required by Section 16.90.020. The action may be appealed to the Council in accordance with Chapter 16.76.

F. Time Limits

Site plan approvals are void after two (2) years unless construction on the site has begun, as determined by the City. The City may extend site plan approvals for an additional period not to exceed one (1) year, upon written request from the applicant showing adequate cause for such extension, and payment of an extension application fee as per Section 16.74.010. A site plan approval granted on or after January 1, 2007 through December 31, 2009, is extended until December 31, 2013.

**<u>Response:</u>** These standards are understood.

#### Chapter 16.92 - LANDSCAPING

16.92.010 - Landscaping Plan Required

All proposed developments for which a site plan is required pursuant to Section 16.90.020 shall submit a landscaping plan that meets the standards of this Chapter. All areas not occupied by structures, paved roadways, walkways, or patios shall be landscaped or maintained according to an approved site plan.

**<u>Response:</u>** The Preliminary Landscape Plan, prepared by a licensed landscape architect, is included in Exhibit A. Unpaved areas not occupied by structures are planned to be landscaped and maintained in accordance with the submitted plans, as applicable.

#### 16.92.020 - Landscaping Materials

A. Type of Landscaping

Required landscaped areas shall include an appropriate combination of native evergreen or deciduous trees and shrubs, evergreen ground cover, and perennial plantings. Trees to be planted in or adjacent to public rights-of-way shall meet the requirements of this Chapter. Plants may be selected from the City's "Suggested Plant Lists for Required Landscaping Manual" or suitable for the Pacific Northwest



climate and verified by a landscape architect or certified landscape professional.

- 1. Ground Cover Plants
  - a. All of the landscape that is not planted with trees and shrubs must be planted in ground cover plants, which may include grasses. Mulch is not a substitute for ground cover, but is allowed in addition to the ground cover plants.
  - b. Ground cover plants other than grasses must be at least the four-inch pot size and spaced at distances appropriate for the plant species. Ground cover plants must be planted at a density that will cover the entire area within three (3) years from the time of planting.
- 2. Shrubs
  - a. All shrubs must be of sufficient size and number to be at full growth within three (3) years of planting.
  - b. Shrubs must be at least the one-gallon container size at the time of planting.
- 3. Trees
  - a. Trees at the time of planting must be fully branched and must be a minimum of two (2) caliper inches and at least six (6) feet in height.
  - b. Existing trees may be used to meet the standards of this chapter, as described in Section 16.92.020.C.2.
- **<u>Response:</u>** The Preliminary Landscape Plan (Exhibit A) shows a combination of trees, shrubs, and ground cover in all landscaped areas in compliance with the minimum standards of this section. These criteria are met.
  - B. Plant Material Selection and Preparation
    - 1. Required landscaping materials shall be established and maintained in a healthy condition and of a size sufficient to meet the intent of the approved landscaping plan. Specifications shall be submitted showing that adequate preparation of the topsoil and subsoil will be undertaken.
    - 2. Landscape materials should be selected and sited to produce a hardy and drought-resistant landscape area. Selection of the plants should include consideration of soil type, and depth, the amount of maintenance required, spacing, exposure to sun and wind, the slope and contours of the site, and compatibility with existing native vegetation preserved on the site.
- **Response:** Appropriate plant material has been selected to meet the applicable standards for the specific space and purpose. Irrigation will be provided by a fully automatic, underground system. Plants will cover the landscaping islands without overgrowth. Construction plans and specifications will be prepared to the required standards and show adequate plant health and topsoil preparation. Planting notes are provided on the landscaping plans. These criteria are met or will be met at the time of construction plan submittal.



- C. Existing Vegetation
  - 1. All developments subject to site plan review per Section 16.90.020 and required to submit landscaping plans per this section shall preserve existing trees, woodlands and vegetation on the site to the maximum extent possible, as determined by the Review Authority, in addition to complying with the provisions of Section 16.142.(Parks, Trees and Open Space) and Chapter 16.144 (Wetland, Habitat, and Natural Resources).
  - 2. Existing vegetation, except those plants on the Nuisance Plants list as identified in the "Suggested Plant Lists for Required Landscaping Manual" may be used to meet the landscape standards, if protected and maintained during the construction phase of the development.
    - a. If existing trees are used, each tree six (6) inches or less in diameter counts as one (1) medium tree.
    - b. Each tree that is more than six (6) inches and up to nine (9) inches in diameter counts as two (2) medium trees.
    - c. Each additional three (3) inch diameter increment above nine (9) inches counts as an additional medium tree.
- **<u>Response:</u>** The Existing Conditions Plan, included in Exhibit A, shows the trees currently on-site and the vegetation to be maintained. The Preliminary Landscape Plan reflects the applicable requirements in Section 16.142, which are addressed in the responses below. The applicable criteria are met.
  - D. Non-Vegetative Features
    - 1. Landscaped areas as required by this Chapter may include architectural features interspersed with planted areas, such as sculptures, benches, masonry or stone walls, fences, rock groupings, bark dust, semi-pervious decorative paving, and graveled areas.
    - 2. Impervious paving shall not be counted toward the minimum landscaping requirements unless adjacent to at least one (1) landscape strip and serves as a pedestrian pathway.
    - 3. Artificial plants are prohibited in any required landscaped area.
- **<u>Response:</u>** Required landscaping will be planted with trees, ground cover, and shrubs. No non-vegetative features are planned. These standards are met.

#### 16.92.030 - Site Area Landscaping and Perimeter Screening Standards

- A. Perimeter Screening and Buffering
  - 1. Perimeter Screening Separating Residential Zones:

A minimum six-foot high sight-obscuring wooden fence, decorative masonry wall, or evergreen screen, shall be required along property lines separating single and twofamily uses from multi- family uses, and along property lines



separating residential zones from commercial, institutional/public or industrial zones subject to the provisions of Chapter 16.48.020 (Fences, Walls and Hedges).

- adjacent For new uses to inventoried a. sensitive environmentally areas, screening requirements shall be limited to vegetation only to preserve wildlife mobility. In addition, the Review Authority may require plants and other landscaping features in locations and sizes necessary to protect the privacy of residences and buffer any adverse effects of adjoining uses.
- b. The required screening shall have breaks, where necessary, to allow pedestrian access to the site. The design of the wall or screening shall also provide breaks or openings for visual surveillance of the site and security.
- c. Evergreen hedges used to comply with this standard shall be a minimum of thirty-six (36) inches in height at maturity, and shall be of such species, number and spacing to provide the required screening within one (1) year after planting.
- **<u>Response:</u>** The project site does not directly abut residential zones. The property abuts a residential zone southeast of the SW Oregon Street/SW Murdock Road roundabout. This area is the location of the Rock Creek corridor, a wetland and floodplain, and is not planned to be used for industrial development. This area is planned to remain as-is; therefore, these criteria do not apply.

#### 2. Perimeter Landscaping Buffer

- a. A minimum ten (10) foot wide landscaped strip comprised of trees, shrubs and ground cover shall be provided between off-street parking, loading, or vehicular use areas on separate, abutting, or adjacent properties.
- **Response:** A 10-foot or greater width landscaped strip is provided along the perimeter of the site. Along the southern and eastern edges of the site, this landscaped buffer is 10 feet in width. Along the northern and western edges of the site, this buffer is between 15 to +200 feet in width. This criterion is met.
  - b. The access drives to a rear lots in the residential zone (i.e. flag lot) shall be separated from abutting property(ies) by a minimum of forty-two-inch sightobscuring fence or a forty-two-inch to an eight (8) feet high landscape hedge within a four-foot wide landscape buffer. Alternatively, where existing mature trees and vegetation are suitable, Review Authority may waive the fence/buffer in order to preserve the mature vegetation.
- **<u>Response:</u>** The project site does not abut access drives within a residential zone. These criteria do not apply.



[...]

1.

- B. Parking Area Landscaping
  - Purpose

The standard is a landscape treatment that uses a combination of trees, shrubs, and ground cover to provide shade, storm water management, aesthetic benefits, and screening to soften the impacts of large expanses of pavement and vehicle movement. It is applied to landscaped areas within and around the parking lot and loading areas.

- 2. Definitions
  - a. Parking Area Landscaping: Any landscaped area on the site that is not required as perimeter landscaping § 16.92.030 (Site Landscaping and Screening).
  - b. Canopy Factor
    - (1) Landscape trees are assigned a canopy factor to determine the specific number of required trees to be planted. The canopy factor is calculated based on the following formula:

Canopy Factor = Mature Height (in feet) × Canopy Spread (in feet) × Growth Rate Factor × .01

- (2) Growth Rate Factor: The growth rate factor is three (3) for fast-growing trees, two (2) for medium growing trees, and one (1) for slow growing trees. The growth rate of a tree is identified in the "Suggested Plant Lists for Required Landscaping Manual."
- 3. Required Landscaping

There shall be at least forty-five (45) square feet parking area landscaping for each parking space located on the site. The amount of required plant materials are based on the number of spaces as identified below.

**Response:** The Preliminary Site Plan shows 185 parking spaces, which require 8,325 square feet of landscaping. The Preliminary Landscape Plan shows greater than ±20,410 square feet of interior parking lot landscaping and greater than ±134,881 square feet of landscaping with the inclusion of the stormwater facility as specified below.

The proposed tree canopy at maturity has been estimated at  $\pm 185,105$  square feet, exceeding 30 percent of the site ( $\pm 104,256$  square feet).

The Preliminary Landscape Plan is available as Sheet P13 of the Preliminary Plans (Exhibit A). Parking lot landscaping areas have been illustrated on Sheet EX-2 of Exhibit A. These criteria are met.

- 4. Amount and Type of Required Parking Area Landscaping
  - a. Number of Trees required based on Canopy Factor


Small trees have a canopy factor of less than forty (40), medium trees have a canopy factor from forty (40) to ninety (90), and large trees have a canopy factor greater than ninety (90);

- (1) Any combination of the following is required:
  - (i) One (1) large tree is required per four (4) parking spaces;
  - (ii) One (1) medium tree is required per three (3) parking spaces; or
  - (iii) One (1) small tree is required per two (2) parking spaces.
  - (iv) At least five (5) percent of the required trees must be evergreen.
- (2) Street trees may be included in the calculation for the number of required trees in the parking area.

Response:The Preliminary Landscape Plan (Exhibit A) shows 89 trees are proposed with a<br/>combination of large (Marshall's Green Ash, Austrian Pine, and Green Vase Sawleaf<br/>Zelkova) and small (Vine Maple) tree selections to meet the canopy factor required.

Based on the planned provision of 185 parking spaces and the following calculations, the parking lot canopy requirements are met:

Vine Maple is a small tree (Canopy Factor 10). There are 27 planned within the landscaped areas on the site. These trees provide canopy for 54 parking spaces (27 trees x (2 parking spaces/1 small tree) = 54 parking spaces).

Marshall's Green Ash is classified as a large tree (Canopy Factor 200) and provides canopy for 92 parking spaces (23 trees x (4 parking spaces/1 large tree) = 92 parking spaces).

Austrian Pine is classified as a large tree (Canopy Factor 100). The eight plantings provide canopy for 32 parking spaces (8 trees x (4 parking spaces/1 large tree) = 32 parking spaces).

Western Red Cedar is an evergreen species and nine are provided within the landscaping areas. These trees provide a mature canopy of up to 70 feet in diameter, classifying them as a large tree (Canopy Factor 105) and providing canopy for 36 parking spaces (9 trees x (4 parking spaces/1 large tree) = 36 parking spaces).

Green Vase Sawleaf Zelkova is another large tree with a Canopy Factor of 192. The 22 plantings will provide canopy for 88 parking spaces (22 trees x (4 parking spaces/1 large tree) = 88 parking spaces).

Street tree species proposed include Paperbark Maple (Canopy Factor 10 - Small) and American Linden (Canopy Factor 150 - Large). Thirty-one maples are planned, providing canopy for an additional 62 parking spaces at the small tree rate (2 parking spaces/1 small tree). Canopy for 164 parking spaces is provided by the American Linden plantings (41 trees x (4 parking spaces/1 large tree) = 164 parking spaces).



Per the above calculations, canopy is provided for 152 parking spaces on-site. Parking lot tree canopy is provided for 436 parking spaces; however, only 185 parking spaces are proposed. Therefore, the planned landscaping exceeds the canopy factor requirements.

- b. Shrubs:
  - (1) Two (2) shrubs are required per each space.
  - For spaces where the front two (2) feet of parking spaces have been landscaped instead of paved, the standard requires one (1) shrub per space. Shrubs may be evergreen or deciduous.
- c. Ground cover plants:
  - (1) Any remainder in the parking area must be planted with ground cover plants.
  - (2) The plants selected must be spaced to cover the area within three (3) years. Mulch does not count as ground cover.
- **Response:** Based on the planned provision of 185 parking spaces, minus 51 parking spaces abutting landscaped areas instead of paved areas, 319 shrubs are required, and 683 shrub plantings are proposed, 419 of which are adjacent to parking areas. The remainder of the parking area landscaping will be planted with ground cover. The selected plants are anticipated to cover their respective planting areas within three years of planting. These criteria are met.
  - 5. Individual Landscape Islands Requirements
    - a. Individual landscaped areas (islands) shall be at least ninety (90) square feet in area and a minimum width of five (5) feet and shall be curbed to protect the landscaping.
    - b. Each landscape island shall be planted with at least one (1) tree.
    - c. Landscape islands shall be evenly spaced throughout the parking area.
    - d. Landscape islands shall be distributed according to the following:
    - [...]
- (3) Industrial uses: one (1) island for every twelve (12) contiguous parking spaces.
- **<u>Response:</u>** The Preliminary Landscape Plan (Exhibit A) shows individual landscaped areas will be at least 90 square feet and have a minimum width of 5 feet. Islands contain at least one tree and will be curbed to protect landscaping. Islands are distributed as necessary to ensure there are no more than 12 contiguous parking spaces. These criteria are met.
  - e. Storm water bio-swales may be used in lieu of the parking landscape areas and may be included in the calculation of the required landscaping amount.



**<u>Response:</u>** The planted stormwater facility is generally adjacent to the parking area; therefore, the landscape area has been included as part of the calculation of required parking lot landscaping. This criterion is met.

f.

Exception to Landscape Requirement

Linear raised or marked sidewalks and walkways within the parking areas connecting the parking spaces to the on-site buildings may be included in the calculation of required site landscaping provide that it:

- (1) Trees are spaced a maximum of thirty (30) feet on at least one (1) side of the sidewalk.
- (2) The minimum unobstructed sidewalk width is at least six (6) feet wide.
- (3) The sidewalk is separated from the parking areas by curbs, bollards, or other means on both sides.
- **<u>Response</u>**: Exceptions to the landscaping requirements are not anticipated as part of this application. These criteria do not apply.
  - 6. Landscaping at Points of Access

When a private access-way intersects a public right-of-way or when a property abuts the intersection of two (2) or more public rights-of-way, landscaping shall be planted and maintained so that minimum sight distances shall be preserved pursuant to Section 16.58.010.

- **<u>Response:</u>** The Preliminary Landscape Plan (Exhibit A) shows plantings near the planned access points have been designed not to obstruct minimum sight distances. The criterion is met.
  - 7. Exceptions
    - a. For properties with an environmentally sensitive area and/or trees or woodlands that merit protection per Chapters 16.142 (Parks, Trees and Open Space) and 16.144 (Wetland, Habitat and Natural Areas) the landscaping standards may be reduced, modified or "shifted" on-site where necessary in order to retain existing vegetation that would otherwise be removed to meet the above referenced landscaping requirements.
    - b. The maximum reduction in required landscaping buffer permitted through this exception process shall be no more than fifty (50) percent. The resulting landscaping buffer after reduction may not be less than five (5) feet in width unless otherwise permitted by the underlying zone. Exceptions to the required landscaping may only be permitted when reviewed as part of a land use action application and do not require a separate variance permit.



- **<u>Response:</u>** The landscaping has not been planned to require alteration or reduction due to existing environmentally sensitive areas, trees, or woodlands.
  - C. Screening of Mechanical Equipment, Outdoor Storage, Service and Delivery Areas

All mechanical equipment, outdoor storage and manufacturing, and service and delivery areas, shall be screened from view from all public streets and any adjacent residential zones. If unfeasible to fully screen due to policies and standards, the applicant shall make efforts to minimize the visual impact of the mechanical equipment.

- **Response:**Where the location of mechanical equipment, outdoor storage, and service and delivery<br/>areas are known, the Preliminary Plans (Exhibit A) demonstrate that they will be sited or<br/>sufficiently screened to restrict their visibility from public streets. Adjacent residential<br/>zones are located ±630 feet to the west, beyond both the site's stormwater facility and<br/>the Rock Creek corridor, and are sufficiently screened. This criterion is met.
  - D. Visual Corridors

Except as allowed by subsection 6. above, new developments shall be required to establish landscaped visual corridors along Highway 99W and other arterial and collector streets, consistent with the Natural Resources and Recreation Plan Map, Appendix C of the Community Development Plan, Part II, and the provisions of Chapter 16.142 (Parks, Trees, and Open Space). Properties within the Old Town Overlay are exempt from this standard.

**<u>Response:</u>** As the project site abuts two arterial streets, SW Oregon Street and SW Tonquin Road, visual corridors are required along those frontages. Fifteen-foot visual corridors have been illustrated on the Preliminary Site Plan and Preliminary Landscape Plan (Exhibit A). These criteria are met.

16.92.040 - Installation and Maintenance Standards

A. Installation

All required landscaping must be in-ground, except when in raised planters that are used to meet minimum Clean Water Services storm water management requirements. Plant materials must be installed to current nursery industry standards. Plant materials must be properly supported to ensure survival. Support devices such as guy wires or stakes must not interfere with vehicular or pedestrian movement.

- B. Maintenance and Mitigation of Landscaped Areas
  - 1. Maintenance of existing non-invasive native vegetation is encouraged within a development and required for portions of the property not being developed.
  - 2. All landscaping shall be maintained in a manner consistent with the intent of the approved landscaping plan.
  - 3. Any required landscaping trees removed must be replanted consistent with the approved landscaping plan and comply with § 16.142, (Parks, Trees and Open Space).
- C. Irrigation



The intent of this standard is to ensure that plants will survive the critical establishment period when they are most vulnerable due to lack of watering. All landscaped areas must provide an irrigation system, as stated in Option 1, 2, or 3.

- 1. Option 1: A permanent built-in irrigation system with an automatic controller installed.
- 2. Option 2: An irrigation system designed and certified by a licensed landscape architect or other qualified professional as part of the landscape plan, which provides sufficient water to ensure that the plants become established. The system does not have to be permanent if the plants chosen can survive independently once established.
- 3. Option 3: Irrigation by hand. If the applicant chooses this option, an inspection will be required one (1) year after final inspection to ensure that the landscaping has become established.
- **<u>Response:</u>** The landscaping has been proposed to be planted in-ground and be permanently irrigated with an automatic controller. This criterion is met.

## [...]

## Chapter 16.94 - OFF-STREET PARKING AND LOADING

## 16.94.010 - General Requirements

A. Off-Street Parking Required

No site shall be used for the parking of vehicles until plans are approved providing for off-street parking and loading space as required by this Code. Any change in uses or structures that reduces the current off-street parking and loading spaces provided on site, or that increases the need for off-street parking or loading requirements shall be unlawful and a violation of this Code, unless additional offstreet parking or loading areas are provided in accordance with Section 16.94.020, or unless a variance from the minimum or maximum parking standards is approved in accordance with Chapter 16.84 Variances.

B. Deferral of Improvements

Off-street parking and loading spaces shall be completed prior to the issuance of occupancy permits, unless the City determines that weather conditions, lack of available surfacing materials, or other circumstances beyond the control of the applicant make completion impossible. In such circumstances, security equal to one hundred twenty five (125) percent of the cost of the parking and loading area is provided the City. "Security" may consist of a performance bond payable to the City, cash, certified check, or other assurance of completion approved by the City. If the installation of the parking or loading area is not completed within one (1) year, the security may be used by the City to complete the installation.

- [...]
- D. Prohibited Uses

Required parking, loading and maneuvering areas shall not be used for long-term storage or sale of vehicles or other materials, and shall



not be rented, leased or assigned to any person or organization not using or occupying the building or use served.

- **<u>Response:</u>** These standards, as applicable, are understood. Parking has been proposed and provided per the applicable code provisions. Deferral of improvements, shared parking, and prohibited uses have not been proposed.
  - E. Location
    - [...]
    - 2. For other uses, required off-street parking spaces may include adjacent on-street parking spaces, nearby public parking and shared parking located within five hundred (500) feet of the use. The distance from the parking, area to the use shall be measured from the nearest parking space to a building entrance, following a sidewalk or other pedestrian route. The right to use private off-site parking must be evidenced by a recorded deed, lease, easement, or similar written notarized letter or instrument.
    - 3. Vehicle parking is allowed only on improved parking shoulders that meet City standards for public streets, within garages, carports and other structures, or on driveways or parking lots that have been developed in conformance with this code. Specific locations and types of spaces (car pool, compact, etc.) for parking shall be indicated on submitted plans and located to the side or rear of buildings where feasible.
      - a. All new development with forty (40) employees or more shall include preferential spaces for carpool/vanpool designation. Carpool and vanpool parking spaces shall be located closer to the main employee entrance than all other parking spaces with the exception of ADA parking spaces. Carpool/vanpool spaces shall be clearly marked as reserved for carpool/vanpool only.

# [...]

- **Response:** The Preliminary Site Plan (Exhibit A) shows that required off-street parking for the planned industrial project can be accommodated entirely on-site. The project will accommodate greater than 40 employees. Therefore, a carpool/vanpool parking space is required and is illustrated on the Preliminary Site Plan (Exhibit A). These criteria are met.
  - F. Marking

All parking, loading or maneuvering areas shall be clearly marked and painted. All interior drives and access aisles shall be clearly marked and signed to show the direction of flow and maintain vehicular and pedestrian safety.

- **<u>Response:</u>** All parking, loading, and maneuvering areas are planned to be marked, as shown on the preliminary plans. The planned markings will clearly show the direction of flow and maintain safety for vehicles and pedestrians. The criterion is met.
  - G. Surface and Drainage



- 1. All parking and loading areas shall be improved with a permanent hard surface such as asphalt, concrete or a durable pervious surface. Use of pervious paving material is encouraged and preferred where appropriate considering soils, location, anticipated vehicle usage and other pertinent factors.
- 2. Parking and loading areas shall include storm water drainage facilities approved by the City Engineer or Building Official.
- **<u>Response:</u>** All parking and loading areas will be improved with a permanent hard surface such as asphalt pavement. Stormwater will be captured on-site and conveyed to the planned stormwater facility located at the western edge of the subject site. The criteria are met.

[...]

I. Parking and Loading Plan

An off-street parking and loading plan, drawn to scale, shall accompany requests for building permits or site plan approvals, except for single and two-family dwellings, and manufactured homes on residential lots. The plan shall show but not be limited to:

- 1. Delineation of individual parking and loading spaces and dimensions.
- 2. Circulation areas necessary to serve parking and loading spaces.
- 3. Location of accesses to streets, alleys and properties to be served, and any curb cuts.
- 4. Landscaping as required by Chapter 16.92.
- 5. Grading and drainage facilities.
- 6. Signing and bumper guard specifications.
- 7. Bicycle parking facilities as specified in Section 16.94.020.C.
- 8. Parking lots more than one (1) acre in size shall provide street-like features including curbs, sidewalks, and street trees or planting strips.
- **<u>Response:</u>** The Preliminary Plans (Exhibit A) included with this application provide the information listed above. The criteria are met.

## [...]

16.94.020 - Off-Street Parking Standards

A. Generally

Where square feet are specified, the area measured shall be the gross building floor area primary to the functioning of the proposed use. Where employees are specified, persons counted shall be those working on the premises, including proprietors, during the largest shift at peak season. Fractional space requirements shall be counted as a whole space. The Review Authority may determine alternate off - street parking and loading requirements for a use not specifically listed in this Section based upon the requirements of comparable uses.



Table 1: Minimum and Maximum Parking Standards (Metro spaces are based on 1 per 1,000 sq ft of gross leasable area)						
	Minimum	Maximum	Maximum			
	Parking	Permitted	Permitted Parking			
	Standard	Parking Zone	Zone B <sup>2</sup>			
		<b>A</b> <sup>1</sup>				
Industrial	1.6	None	None			

<sup>1</sup> Parking Zone A reflects the maximum number of permitted vehicle parking spaces allowed for each listed land use. Parking Zone A areas include those parcels that are located within one-quarter ( $\frac{1}{4}$ ) mile walking distance of bus transit stops, one-half ( $\frac{1}{2}$ ) mile walking distance of light rail station platforms, or both, or that have a greater than twenty-minute peak hour transit service.

<sup>2</sup> Parking Zone B reflects the maximum number of permitted vehicle parking spaces allowed for each listed land use. Parking Zone B areas include those parcels that are located at a distance greater than one-quarter (<sup>1</sup>/<sub>4</sub>) mile walking distance of bus transit stops, one-half (<sup>1</sup>/<sub>2</sub>) mile walking distance of light rail station platforms, or both.

- **Response:** Based on the planned ±115,170 square feet of gross floor area of the buildings, the planned uses, and the parking ratios listed above, 185 parking spaces are required. The Preliminary Site Plan (Exhibit A) shows 185 planned parking spaces. Maximum parking does not apply to industrial uses. These criteria are met.
  - B. Dimensional and General Configuration Standards
    - 1. Dimensions For the purpose of this Chapter, a "parking space" means a stall nine (9) feet in width and twenty (20) feet in length. Up to twenty five (25) percent of required parking spaces may have a minimum dimension of eight (8) feet in width and eighteen (18) feet in length so long as they are signed as compact car stalls.
- **Response:**The Preliminary Site Plan (Exhibit A) shows at least 75 percent of parking spaces are<br/>planned to be full size spaces, per the required dimensions above and Table 3, below.<br/>Compact parking spaces are not planned. These criteria are met.
  - 2. Layout

Parking space configuration, stall and access aisle size shall be of sufficient width for all vehicle turning and maneuvering. Groups of more than four (4) parking spaces shall be served by a driveway so as to minimize backing movements or other maneuvering within a street, other than an alley. All parking areas shall meet the minimum standards shown in the following table and diagram.





- Bumper overhang to be incorporated into stall length when no wheel stop is in (allowed for interior stalls)
- Parking angle
- Stall width
- Stall depth (no bumper
- overhang)
- Alale width between stall lines Stall width parallel to alsie
- Module width (no bumper
- overhang)
- Bumper overhang
- Bumper overhang (perpendicular to alsie)
- Module width (overhangs Included)

Table 3: Two-Way Driving Aisle (Dimensions in Feet)								
Α	В	С	D	E	F	G	H	J
459	8.0	16.5	24.0	11.3	57.0	3.0	2.5	62.0
40	9.0	18.5	24.0	12.7	61.0	3.0	2.5	66.0
609	8.0	17.0	24.0	9.2	58.0	3.0	2.5	63.0
00	9.0	19.5	24.0	10.4	63.0	3.0	2.5	68.0
	8.0	16.5	26.0	8.3	59.0	3.0	3.0	65.0
15	9.0	19.0	24.0	9.3	62.0	3.0	3.0	68.0
0.00	8.0	15.0	26.0	8.0	56.0	3.0	3.0	62.0
90	9.0	17.0	24.0	9.0	58.0	3.0	3.0	64.0

**Response:** The Preliminary Site Plan (Exhibit A) shows all parking spaces will be served by drive aisles that meet the applicable requirements for 90-degree parking. The criterion is met.

- 3. Wheel Stops
  - Parking spaces along the boundaries of a parking a. lot or adjacent to interior landscaped areas or sidewalks shall be provided with a wheel stop at least four (4) inches high, located three (3) feet back from the front of the parking stall as shown in the above diagram.
  - b. Wheel stops adjacent to landscaping, bio-swales or water quality facilities shall be designed to allow storm water runoff.
  - c. The paved portion of the parking stall length may be reduced by three (3) feet if replaced with three (3) feet of low lying landscape or hardscape in lieu of a wheel stop; however, a curb is still required. In other words, the traditional three-foot vehicle overhang from a wheel stop may be low-lying landscaping rather than an impervious surface.
- [...]



- **<u>Response:</u>** Wheel stops are planned as shown on the Preliminary Site Plan (Exhibit A). As such, parking stalls are planned to have limited overhang onto sidewalks and landscaped areas. The applicable criteria are met.
  - 6. Reduction in Required Parking Spaces

Developments utilizing Engineered storm water bio-swales or those adjacent to environmentally constrained or sensitive areas may reduce the amount of required parking spaces by ten (10) percent when twenty-five (25) through forty-nine (49) parking spaces are required, fifteen (15) percent when fifty (50) and seventy-four (74) parking spaces are required and twenty (20) percent when more than seventy-five (75) parking spaces are required, provided the area that would have been used for parking is maintained as a habitat area or is generally adjacent to an environmentally sensitive or constrained area.

- **<u>Response:</u>** The proposed project provides the required number of parking spaces. Therefore, a decrease to the minimum number of parking stalls is not required. This standard does not apply.
  - C. Bicycle Parking Facilities
    - 1. General Provisions
      - a. Applicability. Bicycle parking spaces shall be provided for new development, changes of use, and major renovations, defined as construction valued at twenty-five (25) percent or more of the assessed value of the existing structure.
      - b. Types of Spaces. Bicycle parking facilities shall be provided in terms of short-term bicycle parking and long-term bicycle parking. Short-term bicycle parking is intended to encourage customers and other visitors to use bicycles by providing a convenient and readily accessible place to park bicycles. Long-term bicycle parking provides employees, students, residents, commuters, and others who generally stay at a site for at least several hours a weather-protected place to park bicycles.
      - c. Minimum Number of Spaces. The required total minimum number of bicycle parking spaces for each use category is shown in Table 4, Minimum Required Bicycle Parking Spaces.
      - d. Minimum Number of Long-term Spaces. If a development is required to provide eight (8) or more required bicycle parking spaces in Table 4, at least twenty-five (25) percent shall be provided as long-term bicycle with a minimum of one (1) long-term bicycle parking space.
      - e. Multiple Uses. When there are two or more primary uses on a site, the required bicycle parking for the site is the sum of the required bicycle parking for the individual primary uses.



- **Response:** Per the ratio of "2 or 1 per 40 spaces, whichever is greater" in Table 4, five bicycle parking spaces are required for the planned industrial use. The Preliminary Site Plan (Exhibit A) shows the planned bicycle parking location. Long-term spaces are neither planned nor required as the industrial development is required to provide less than eight bicycle parking spaces. The applicable criteria are met.
  - 2. Location and Design.
    - a. General Provisions
      - Each space must be at least two (2) feet by six (6) feet in area, be accessible without moving another bicycle, and provide enough space between the rack and any obstructions to use the space properly.
      - There must be an aisle at least five (5) feet wide behind all required bicycle parking to allow room for bicycle maneuvering. Where the bicycle parking is adjacent to a sidewalk, the maneuvering area may extend into the right-of-way.
      - (3) Lighting. Bicycle parking shall be at least as well lit as vehicle parking for security.
      - (4) Reserved Areas. Areas set aside for bicycle parking shall be clearly marked and reserved for bicycle parking only.
      - [...]
      - (6) Hazards. Bicycle parking shall not impede or create a hazard to pedestrians. Parking areas shall be located so as to not conflict with vision clearance standards.
- Response:Planned bicycle parking has been located and designed to accommodate the design<br/>standards listed above. Per Table 4, five bicycle spaces are required for the planned<br/>industrial uses. The Preliminary Site Plan (Exhibit A) illustrates the planned bicycle parking<br/>locations distributed throughout the site. Per the submitted Preliminary Site Lighting Plan<br/>(Sheet P20 Exhibit A), fixtures are planned to adequately light each bicycle parking<br/>space. Upon submittal of a final site plan review application, concurrent with a building<br/>permit submittal, a final photometric plan is anticipated to be submitted to demonstrate<br/>compliance with the bicycle parking lighting requirement. The applicable criteria are met.
  - b. Short-term Bicycle Parking
    - (1) Provide lockers or racks that meet the standards of this section.
    - (2) Locate inside or outside the building within thirty (30) feet of the main entrance to the building or at least as close as the nearest vehicle parking space, whichever is closer.
- **Response:** The Preliminary Site Plan (Exhibit A) shows the planned location of short-term bicycle parking. Because building entrances are spread throughout the industrial campus, bicycle

racks are distributed throughout the site, but generally planned to be located within 30 feet of a building entrance. These criteria are met.

- c. Long-term Bicycle Parking
  - Provide racks, storage rooms, or lockers in areas that are secure or monitored (e.g., visible to employees or customers or monitored by security guards).
  - (2) Locate the outside bicycle parking spaces within one hundred (100) feet of the entrance that will be accessed by the intended users.
  - (3) All of the spaces shall be covered.
- d. Covered Parking (Weather Protection)
  - When required, covered bicycle parking shall be provided in one (1) of the following ways: inside buildings, under roof overhangs or awnings, in bicycle lockers, or within or under other structures.
  - (2) Where required covered bicycle parking is not within a building or locker, the cover must be permanent and designed to protect the bicycle from rainfall and provide seven-foot minimum overhead clearance.
  - (3) Where required bicycle parking is provided in lockers, the lockers shall be securely anchored.

### Table 4: Minimum Required Bicycle Parking Spaces

Use Categories	Minimum Required Spaces		
Industrial Categories			
Industrial	2 or 1 per 40 spaces, whichever is greater		

**<u>Response:</u>** The Preliminary Site Plan (Exhibit A) shows the planned locations for five required bicycle parking spaces (±4.63 for 185 vehicle parking spaces). Long-term or covered spaces are neither planned nor required. The applicable criteria have been met.

### 16.94.030 - Off-Street Loading Standards

A. Minimum Standards

[...]

- 2. The minimum loading area for non-residential uses shall not be less than ten (10) feet in width by twenty-five (25) feet in length and shall have an unobstructed height of fourteen (14) feet.
- 3. Multiple uses on the same parcel or adjacent parcels may utilize the same loading area if it is shown in the development application that the uses will not have substantially overlapping delivery times.



- 4. The following additional minimum loading space is required for buildings in excess of twenty thousand (20,000) square feet of gross floor area:
  - a. Twenty thousand (20,000) to fifty (50,000) sq. ft. five hundred (500) sq. ft.
  - b. Fifty (50,000) sq. ft. or more seven hundred fifty (750) sq. ft.
- **Response:** The Preliminary Site Plan (Exhibit A) illustrates loading areas meeting these minimum requirements. The loading areas are at least 10 feet in width by 25 feet in length with an unobstructed height of at least 14 feet. Greater than 50,000 square feet of gross floor area is planned; therefore, the additional minimum loading space of at least 750 square feet is planned to be provided. These criteria are met.
  - B. Separation of Areas

Any area to be used for the maneuvering of delivery vehicles and the unloading or loading of materials shall be separated from designated off-street parking areas and designed to prevent the encroachment of delivery vehicles onto off-street parking areas or public streets. Offstreet parking areas used to fulfill the requirements of this Chapter shall not be used for loading and unloading operations.

**<u>Response:</u>** Areas designated for the maneuvering of delivery vehicles and loading areas are planned to be separated from off-street parking areas. These areas are designed to prevent the encroachment of delivery vehicles onto off-street parking areas or public streets. Loading and unloading is not planned within required parking areas. These criteria are met.

[...]

## Chapter 16.96 - ON-SITE CIRCULATION

16.96.010 - On-Site Pedestrian and Bicycle Circulation

A. Purpose

On-site facilities shall be provided that accommodate safe and convenient pedestrian access within new subdivisions, multi-family developments, planned unit developments, shopping centers and commercial districts, and connecting to adjacent residential areas and neighborhood activity centers within one-half mile of the development. Neighborhood activity centers include but are not limited to existing or planned schools, parks, shopping areas, transit stops or employment centers. All new development, (except singlefamily detached housing), shall provide a continuous system of private pathways/sidewalks.

B. Maintenance

No building permit or other City permit shall be issued until plans for ingress, egress and circulation have been approved by the City. Any change increasing any ingress, egress or circulation requirements, shall be a violation of this Code unless additional facilities are provided in accordance with this Chapter.

C. Joint Access

Two (2) or more uses, structures, or parcels of land may utilize the same ingress and egress when the combined ingress and egress of all



uses, structures, or parcels of land satisfied the other requirements of this Code, provided that satisfactory legal evidence is presented to the City in the form of deeds, easements, leases, or contracts to clearly establish the joint use.

- D. Connection to Streets
  - 1. Except for joint access per this Section, all ingress and egress to a use or parcel shall connect directly to a public street, excepting alleyways with paved sidewalk.
  - 2. Required private sidewalks shall extend from the ground floor entrances or the ground floor landing of stairs, ramps or elevators to the public sidewalk or curb of the public street which provides required ingress and egress.
- **Response:**The proposed development will connect directly to public streets, SW Oregon Street and<br/>SW Laurelwood Way. Ingress and egress per SZCDC are planned, with private sidewalks<br/>extending from the ground floor entrances to the public sidewalk via connections to SW<br/>Oregon Street and SW Laurelwood Way. Therefore, these criteria are met.
  - E. Maintenance of Required Improvements

Required ingress, egress and circulation improvements shall be kept clean and in good repair.

F. Access to Major Roadways

Points of ingress or egress to and from Highway 99W and arterials designated on the Transportation Plan Map, attached as Appendix C of the Community Development Plan, Part II, shall be limited as follows:

- [...]
- 2. Other private ingress or egress from Highway 99W and arterial roadways shall be minimized. Where alternatives to Highway 99W or arterials exist or are proposed, any new or altered uses developed after the effective date of this Code shall be required to use the alternative ingress and egress.
- 3. All site plans for new development submitted to the City for approval after the effective date of this Code shall show ingress and egress from existing or planned local or collector streets, consistent with the Transportation Plan Map and Section VI of the Community Development Plan.
- G. Service Drives

## Service drives shall be provided pursuant to Section 16.94.030.

**<u>Response:</u>** The proposed development is not required to provide greater than one driveway, per Section 16.96.030. Therefore, only one access to SW Laurelwood Way has been planned. The access to a local street meets the above requirements minimizing access to surrounding arterial streets. These criteria are met.

## 16.96.030 - Minimum Non-Residential Standards

Minimum standards for private, on-site circulation improvements in non-residential developments:

A. Driveways



# [...]

2. Industrial: Improved hard surfaced driveways are required as follows:

Requ	uired	Minimum Width			
Parking	# Driveways	<b>One-Way Pair</b>	Two-Way		
Spaces					
1-249	1	15 feet	24 feet		
250 & Above	2	15 feet	24 feet		

3. Surface materials are encouraged to be pervious when appropriate considering soils, anticipated vehicle usage and other pertinent factors.

- **<u>Response:</u>** The Preliminary Site Plan (Exhibit A) demonstrates that the driveway is planned to exceed the minimum 24-foot width requirement. Based on anticipated vehicle usage, pervious surfaces are not planned. These criteria are met.
  - B. Sidewalks and Curbs
    - 1. A private pathway/sidewalk system extending throughout the development site shall be required to connect to existing development, to public rights-of-way with or without improvements, to parking and storage areas, and to connect all building entrances to one another. The system shall also connect to transit facilities within five hundred (500) feet of the site, future phases of development, and whenever possible to parks and open spaces.
    - 2. Curbs shall also be required at a standard approved by the Hearing Authority. Private pathways/sidewalks shall be connected to public rights-of-way along driveways but may be allowed other than along driveways if approved by the Hearing Authority.
    - 3. Private Pathway/Sidewalk Design. Private pathway surfaces shall be concrete, asphalt, brick/masonry pavers, or other pervious durable surface. Primary pathways connecting front entrances to the right of way shall be at least 6 feet wide and conform to ADA standards. Secondary pathways between buildings and within parking areas shall be a minimum of four (4) feet wide and/or conform to ADA standards. Where the system crosses a parking area, driveway or street, it shall be clearly marked with contrasting paving materials or raised crosswalk (hump). At a minimum all crosswalks shall include painted striping.
    - 4. Exceptions. Private pathways/sidewalks shall not be required where physical or topographic conditions make a connection impracticable, where buildings or other existing development on adjacent lands physically preclude a connection now or in the future considering the potential for redevelopment; or pathways would violate provisions of leases, restrictions or other agreements.
- Response:The Preliminary Site Plan (Exhibit A) illustrates an accessible connection extending from<br/>the building entrances to other buildings on the site and extending to the multiuse path<br/>(Ice Age Trail) planned along SW Oregon Street and the public sidewalk planned along SW<br/>Laurelwood Way. Raised walkways with curbs are provided to separate vehicles and



pedestrians. Walkways are planned to be constructed of a durable and hard surface, meet applicable Americans with Disabilities Act (ADA) standards, and meet the applicable dimensional requirements. Driveway crossings will be marked, as applicable. These criteria, where applicable, are met.

## 16.96.040 - On-Site Vehicle Circulation

- [...]
- C. Connection to Streets
  - 1. Except for joint access per this Section, all ingress and egress to a use or parcel shall connect directly to a public street, excepting alleyways.
  - 2. Required private sidewalks shall extend from the ground floor entrances or the ground floor landing of stairs, ramps or elevators to the public sidewalk or curb of the public street which provides required ingress and egress.
- [...]
- **Response:** On-site vehicular circulation and direct vehicular access are planned to be provided to SW Laurelwood Way. Private sidewalks will connect ground floor entrances of each building to the multiuse path planned on SW Oregon Street and public sidewalk planned on SW Laurelwood Way. These criteria are met.

### Chapter 16.98 - ON-SITE STORAGE\*

#### 16.98.020 - Solid Waste and Recycling Storage

All uses shall provide solid waste and recycling storage receptacles which are adequately sized to accommodate all solid waste generated on site. All solid waste and recycling storage areas and receptacles shall be located out of public view. Solid waste and recycling receptacles for multi-family, commercial, industrial and institutional uses shall be screened by six (6) foot high sight-obscuring fence or masonry wall and shall be easily accessible to collection vehicles.

**<u>Response:</u>** Trash and recycling enclosures have been planned throughout the site for ease of access by tenants of the industrial space. The enclosures consist of 6-foot-tall masonry walls to provide screening. The final location and orientation of the trash enclosures will be coordinated with Pride Disposal Company. These criteria are met.

### 16.98.030 - Material Storage

- A. Generally. Except as otherwise provided herein, external material storage is prohibited, except in commercial and industrial zones where storage areas are approved by the Review Authority as part of a site plan or per Section 16.98.040.
- B. Standards. Except as per Section 16.98.040, all service, repair, storage, and merchandise display activities carried on in connection with any commercial or industrial activity, and not conducted within an enclosed building, shall be screened from the view of all adjacent properties and adjacent streets by a six (6) foot to eight (8) foot high, sight obscuring fence subject to chapter 16.58.020. In addition, unless adjacent parcels to the side and rear of the storage area have existing solid evergreen screening or sight-obscuring fencing in place, new evergreen screening no less than three (3) feet in height shall be



planted along side and rear property lines. Where other provisions of this Code require evergreen screening, fencing, or a landscaped berm along side and rear property lines, the additional screening stipulated by this Section shall not be required.

- C. Hazardous Materials. Storage of hazardous, corrosive, flammable, or explosive materials, if such storage is otherwise permitted by this Code, shall comply with all local fire codes, and Federal and State regulations.
- **Response:** Material storage has not been proposed. Any material storage which does take place onsite will meet the above standards. These criteria are met.

## **Division VI. - PUBLIC INFRASTRUCTURE**

## Chapter 16.106 - TRANSPORTATION FACILITIES

### 16.106.010 - Generally

## A. Creation

Public streets shall be created in accordance with provisions of this Chapter. Except as otherwise provided, all street improvements and rights-of-way shall conform to standards for the City's functional street classification, as shown on the Transportation System Plan (TSP) Map (Figure 17) and other applicable City standards. The following table depicts the guidelines for the street characteristics.

Type of Street	Right of Way Width	Number of Lanes	Minimum Lane Width	On Street Parking Width	Bike Lane Width	Sidewalk Width	Landscape Strip (exclusive of Curb)	Median Width
Arterial	60- 102'	2-5	12'	Limited	6 feet	6-8'	5'	14' if required
40' Commercial/Industrial Not Exceeding 3000 vehicles per day	64'	2	20'	8'	None	6'	5'	none

**<u>Response:</u>** The site abuts two arterial streets (SW Oregon Street and SW Tonquin Road) and one industrial street not exceeding 3,000 vehicles per day (SW Laurelwood Way). The planned streets meet the requirements listed above. Cross sections and other details are included within Exhibit A. With the addition of SW Laurelwood Way, these criteria are met.

- B. Street Naming
  - 1. All streets created by subdivision or partition will be named prior to submission of the final plat.
  - 2. Any street created by a public dedication shall be named prior to or upon acceptance of the deed of dedication.
  - 3. An action to name an unnamed street in the City may be initiated by the Council or by a person filing a petition as described in this Section.
  - 4. All streets named shall conform to the general requirements as outlined in this Section. 5. At the request of the owner(s), the City may approve a private street name and address. Private streets are subject to the same street name standards as are public streets. All private street signs will be provided at the owner(s) expense.



- C. Street Name Standards
  - 1. All streets named or renamed shall comply with the following criteria:
    - a. Major streets and highways shall maintain a common name or number for the entire alignment.
    - Whenever practicable, names as specified in this Section shall be utilized or retained.51 {00785312; 1 } 65
    - c. Hyphenated or exceptionally long names shall be avoided.
    - d. Similar names such as Farview and Fairview or Salzman and Saltzman shall be avoided.
    - e. Consideration shall be given to the continuation of the name of a street in another jurisdiction when it is extended into the City.
  - 2. The following classifications (suffixes) shall be utilized in the assignment of all street names:

[...]

- d. Streets: Continuous, east-west collectors or extensions thereof.
- 3. Except as provided for by this section, no street shall be given a name that is the same as, similar to, or pronounced the same as any other street in the City unless that street is an extension of an already-named street.
- 4. All proposed street names shall be approved, prior to use, by the City.
- D. Preferred Street Names Whenever practicable, historical names will be considered in the naming or renaming of public roads. Historical factors to be considered shall include, but not be limited to the following:

[...]

**Response:** SW Laurelwood Way is a new street. The street name was proposed by City of Sherwood staff as a reference to site soils (Laurelwood Silt Loam). The criteria are met.

16.106.020 - Required Improvements

A. Generally

Except as otherwise provided, all developments containing or abutting an existing or proposed street, that is either unimproved or substandard in right-of-way width or improvement, shall dedicate the necessary right-of-way prior to the issuance of building permits and/or complete acceptable improvements prior to issuance of occupancy permits. Right-of-way requirements are based on functional classification of the street network as established in the Transportation System Plan, Figure 17.

B. Existing Streets

Except as otherwise provided, when a development abuts an existing street, the improvements requirement shall apply to that portion of



the street right-of-way located between the centerline of the right-ofway and the property line of the lot proposed for development. In no event shall a required street improvement for an existing street exceed a pavement width of thirty (30) feet.

- D. Extent of Improvements
  - 1. Streets required pursuant to this Chapter shall be dedicated and improved consistent with Chapter 6 of the Community Development Plan, the TSP and applicable City specifications included in the City of Sherwood Construction Standards. Streets shall include curbs, sidewalks, catch basins, street lights, and street trees. Improvements shall also include any bikeways designated on the Transportation System Plan map. Applicant may be required to dedicate land for required public improvements only when the exaction is directly related to and roughly proportional to the impact of the development, pursuant to Section 16.106.090.
  - 2. If the applicant is required to provide street improvements, the City Engineer may accept a future improvements guarantee in lieu of street improvements if one or more of the following conditions exist, as determined by the City:
    - a. A partial improvement is not feasible due to the inability to achieve proper design standards;
    - b. A partial improvement may create a potential safety hazard to motorists or pedestrians.
    - c. Due to the nature of existing development on adjacent properties it is unlikely that street improvements would be extended in the foreseeable future and the improvement associated with the project under review does not, by itself, provide a significant improvement to street safety or capacity;
    - d. The improvement would be in conflict with an adopted capital improvement plan;
    - e. The improvement is associated with an approved land partition on property zoned residential use and the proposed land partition does not create any new streets; or
    - f. Additional planning work is required to define the appropriate design standards for the street and the application is for a project that would contribute only a minor portion of the anticipated future traffic on the street.
- **<u>Response:</u>** The subject property fronts SW Oregon Street, SW Tonquin Road, future SW Laurelwood Way along the eastern property boundary, and an unnamed right-of-way to the south of the site. Access to the site is currently gained from SW Oregon Street, which requires a dedication of right-of-way to reach the desired 45 feet from the centerline.

Future access to the site will be obtained from the soon-to-be constructed SW Laurelwood Way. Appropriate dedication of right-of-way has been proposed to allow construction of this new local street.



A dedication of right-of-way was also required along SW Tonquin Road and additional right-of-way allocated for a Transportation System Plan/Capital Improvement Planidentified roundabout at the intersection of SW Oregon Street and SW Tonquin Road (Project No. D3).

Improvements have not been proposed for the unnamed street south of the site. As the intersecting street in this location does not meet Washington County spacing standards from the SW Tonquin Road/SW Oregon Street intersection and the development will not gain access from this street, improvement of this street has not been considered.

With these improvements, the applicable criteria are met.

16.106.030 - Location

A. Generally

The location, width and grade of streets shall be considered in their relation to existing and planned streets, topographical conditions, and proposed land uses. The proposed street system shall provide adequate, convenient and safe traffic and pedestrian circulation, and intersection angles, grades, tangents, and curves shall be adequate for expected traffic volumes. Street alignments shall be consistent with solar access requirements as per Chapter 16.156, and topographical considerations.

- B. Street Connectivity and Future Street Systems
  - 1. Future Street Systems. The arrangement of public streets shall provide for the continuation and establishment of future street systems as shown on the Local Street Connectivity Map contained in the adopted Transportation System Plan (Figure 16).
- **Response:**The proposed plans demonstrate compliance with the Sherwood Transportation System<br/>Plan (TSP), namely Figure 18 (the appropriate TSP figure); the Tonquin Employment Area<br/>(TEA) Concept Plan; and the Oregon Street Access Management Plan (AMP). This criterion<br/>is met.
  - 2. Connectivity Map Required. New residential, commercial, and mixed use development involving the construction of new streets shall be submitted with a site plan that implements, responds to and expands on the Local Street Connectivity map contained in the TSP.
    - a. A project is deemed to be consistent with the Local Street Connectivity map when it provides a street connection in the general vicinity of the connection(s) shown on the map, or where such connection is not practicable due to topography or other physical constraints; it shall provide an alternate connection approved by the decisionmaker.
    - b. Where a developer does not control all of the land that is necessary to complete a planned street connection, the development shall provide for as much of the designated connection as practicable



and not prevent the street from continuing in the future.

- c. Where a development is disproportionately impacted by a required street connection, or it provides more than its proportionate share of street improvements along property line (i.e., by building more than 3/4 width street), the developer shall be entitled to System Development charge credits, as determined by the City Engineer.
- d. Driveways that are more than 24 feet in width shall align with existing streets or planned streets as shown in the Local Street Connectivity Map in the adopted Transportation System Plan (Figure 17), except where prevented by topography, rail lines, freeways, pre-existing development, or leases, easements, or covenants.
- **Response:** The project demonstrates the build-out of SW Laurelwood Way to the southern property boundary. The street illustrated is consistent with the Oregon Street AMP and plans approved as part of the adjacent Sherwood Commerce Center project (LU2021-012 SP/CUP/VAR). The proposed driveway is greater than 24 feet in width; however, existing or planned streets are not located opposite the driveway on SW Laurelwood Way. Therefore, this standard does not apply.
  - 3. Block Length. For new streets except arterials, block length shall not exceed 530 feet. The length of blocks adjacent to arterials shall not exceed 1,800 feet.
- **Response:** The Applicant has not proposed a street over 530 feet in length. SW Laurelwood Way is a new street that exceeds 530 feet; however, this street was approved as part of a previous project on an adjacent site.
  - 4. Where streets must cross water features identified in Title 3 of the Urban Growth Management Functional Plan (UGMFP), provide crossings at an average spacing of 800 to 1,200 feet, unless habitat quality or length of crossing prevents a full street connection.
  - 5. Where full street connections over water features identified in Title 3 of the UGMFP cannot be constructed in centers, main streets and station communities (including direct connections from adjacent neighborhoods), or spacing of full street crossings exceeds 1,200 feet, provide bicycle and pedestrian crossings at an average spacing of 530 feet, unless exceptional habitat quality or length of crossing prevents a connection.

**Response:** The proposed project does not involve a water crossing. These standards do not apply.

6. Pedestrian and Bicycle Connectivity. Paved bike and pedestrian accessways consistent with cross section standards in Figure 8-6 of the TSP shall be provided on public easements or right- of-way when full street connections are not possible, with spacing between connections of no more than 300 feet. Multi-use paths shall



be built according to the Pedestrian and Bike Master Plans in the adopted TSP.

- **<u>Response:</u>** The proposed full street connections are feasible; therefore, pedestrian and bicycle easements have not been proposed. The Ice Age Trail multiuse path has been illustrated as required by the City's TSP. This criterion is met.
  - 7. Exceptions. Streets, bike, and pedestrian connections need not be constructed when any of the following conditions exists:
    - a. Physical or topographic conditions make a street or accessway connection impracticable. Such conditions include but are not limited to freeways, railroads, steep slopes, wetlands or other bodies of water where a connection could not reasonably be provided.
    - b. Buildings or other existing development on adjacent lands physically preclude a connection now or in the future considering the potential for redevelopment; or
    - c. Where streets or accessways would violate provisions of leases, easements, covenants, restrictions or other agreements existing as of May 1, 1995, which preclude a required street or accessway connection.
- **<u>Response:</u>** Exceptions to these standards have not been proposed. These standards do not apply.
  - C. Underground Utilities

All public and private underground utilities, including sanitary sewers and storm water drains, shall be constructed prior to the surfacing of streets. Stubs for service connections shall be long enough to avoid disturbing the street improvements when service connections are made.

- **<u>Response:</u>** This standard is understood and, if required, undergrounding of utilities will be accomplished with as little disturbance of the street as feasible. Where a new street has been planned and utilities and connections required, those improvements will be constructed prior to street surfacing. These standards are met.
  - D. Additional Setbacks

Generally additional setbacks apply when the width of a street rightof-way abutting a development is less than the standard width under the functional classifications in Section VI of the Community Development Plan. Additional setbacks are intended to provide unobstructed area for future street right-of-way dedication and improvements, in conformance with Section VI. Additional setbacks shall be measured at right angles from the centerline of the street.

	Classification	Additional Setback		
2.	Arterial	37 feet		
5.	Local	26 feet		

**Response:** The site is located adjacent to two arterial streets and one planned local (industrial) street. Greater than the minimum 37-foot setback is planned from the roadway centerline



along the SW Oregon Street and SW Tonquin Road frontages. Greater than the minimum 26-foot setback is planned from the roadway centerline along the SW Laurelwood Way frontage. This requirement is satisfied.

16.106.040 - Design

Standard cross sections showing street design and pavement dimensions are located in the City of Sherwood's Engineering Design Manual.

[...]

A. Reserve Strips

Reserve strips or street plugs controlling access or extensions to streets are not allowed unless necessary for the protection of the public welfare or of substantial property rights. All reserve strips shall be dedicated to the appropriate jurisdiction that maintains the street.

B. Alignment

All proposed streets shall, as far as practicable, be in alignment with existing streets. In no case shall the staggering of streets create a "T" intersection or a dangerous condition. Street offsets of less than one hundred (100) feet are not allowed.

C. Future Extension

Where necessary to access or permit future subdivision or development of adjoining land, streets must extend to the boundary of the proposed development and provide the required roadway width. Dead-end streets less than 100' in length must comply with the Engineering Design Manual. A durable sign must be installed at the applicant's expense. The sign is required to notify the public of the intent to construct future streets. The sign must read as follows: "This road will be extended with future development. For more information contact the City of Sherwood Engineering Department."

- **Response:** The creation of SW Laurelwood Way has been proposed to serve this subarea of the Tonquin Employment Area. As such, the future street system shown within this application is consistent with plans for the area. Reserve strips are not required or planned, the street alignment meets City requirements for SW Laurelwood Way, and where appropriate, future street extension signage will be made available. These criteria are met.
  - D. Intersection Angles

Streets shall intersect as near to ninety (90) degree angles as practical, except where topography requires a lesser angle. In all cases, the applicant shall comply with the Engineering Design Manual.

- **<u>Response:</u>** SW Laurelwood Way will connect to SW Oregon Street at a 90-degree angle and follow the predetermined alignment for this new street. This criterion is met.
  - E. Cul-de-sacs

1

All cul-de-sacs shall be used only when exceptional topographical constraints, existing development patterns, or compliance with other standards in this code preclude a street extension and circulation. A cul-de-sac shall not be more than two hundred (200) feet in length and shall not provide access to more than 25 dwelling units.



- 2. All cul-de-sacs shall terminate with a turnaround in accordance with the specifications in the Engineering Design Manual. The radius of circular turnarounds may be larger when they contain a landscaped island, parking bay in their center, Tualatin Valley Fire and Rescue submits a written request, or an industrial use requires a larger turnaround for truck access.
- 3. Public easements, tracts, or right-of-way shall provide paved pedestrian and bicycle access ways at least 6 feet wide where a cul-de-sac or dead-end street is planned, to connect the ends of the streets together, connect to other streets, or connect to other existing or planned developments in accordance with the standards of this Chapter, the TSP, the Engineering Design Manual or other provisions identified in this Code for the preservation of trees.
- **<u>Response:</u>** No cul-de-sacs have been proposed. These standards do not apply.
  - F. Grades and Curves

Grades shall be evaluated by the City Engineer and comply with the Engineering Design Manual.

- **Response:** Grades and curves have been designed to meet the requirements of the City Engineer and comply with the Engineering Design Manual. This criterion is met.
  - M. Vehicular Access Management

All developments shall have legal access to a public road. Access onto public streets shall be permitted upon demonstration of compliance with the provisions of adopted street standards in the Engineering Design Manual.

- 1. Measurement: See the following access diagram where R/W = Right-of-Way; and P.I. = Point-of-Intersection where P.I. shall be located based upon a 90 degree angle of intersection between ultimate right-of-way lines.
  - a. Minimum right-of-way radius at intersections shall conform to City standards.
  - b. All minimum distances stated in the following sections shall be governed by sight distance requirements according to the Engineering Design Manual.
  - c. All minimum distances stated in the following sections shall be measured to the nearest easement line of the access or edge of travel lane of the access on both sides of the road.
  - d. All minimum distances between accesses shall be measured from existing or approved accesses on both sides of the road.
  - e. Minimum spacing between driveways shall be measured from Point "C" to Point "C" as shown below:





- **<u>Response:</u>** The Preliminary Site Plan attached as part of Exhibit A demonstrates that the project will be served by a driveway that conforms to all applicable geometric requirements to establish legal access to SW Laurelwood Way. These criteria are met.
  - 2. Roadway Access

No use will be permitted to have direct access to a street or road except as specified below. Access spacing shall be measured from existing or approved accesses on either side of a street or road. The lowest functional classification street available to the legal lot, including alleys within a public easement, shall take precedence for new access points.

- a. Local Streets: Minimum right-of-way radius is fifteen (15) feet. Access will not be permitted within ten (10) feet of Point "B," if no radius exists, access will not be permitted within twenty-five (25) feet of Point "A." Access points near an intersection with a Neighborhood Route, Collector or Arterial shall be located beyond the influence of standing queues of the intersection in accordance with AASHTO standards. This requirement may result in access spacing greater than ten (10) feet.
- **Response:** Access to arterial streets has not been proposed. Only one access is required for a development of this type and area; therefore, only one access is planned to SW Laurelwood Way. The driveway is proposed greater than 15 feet from "Point B" per the above drawing and will be located outside of the influence of queuing areas at nearby intersections. Therefore, these criteria are met.

16.106.060 - Sidewalks

- A. Required Improvements
  - 1. Except as otherwise provided, sidewalks shall be installed on both sides of a public street and in any special pedestrian way within new development.
  - 2. For Highway 99W, arterials, or in special industrial districts, the City Manager or designee may approve a development without sidewalks if alternative pedestrian routes are available.
- B. Design Standards
  - 1. Arterial and Collector Streets



Arterial and collector streets shall have minimum six (6) or eight (8) foot wide sidewalks/multi-use paths, located as required by this Code. Residential areas shall have a minimum of a six (6) foot wide sidewalk and commercial industrial areas shall have a minimum of an eight (8) foot wide sidewalk.

C. Pedestrian and Bicycle Paths

Provide bike and pedestrian connections on public easements or right-of-way when full street connections are not possible, with spacing between connections of no more than 330 feet except where prevented by topography, barriers such as railroads or highways, or environmental constraints such as rivers and streams.

**<u>Response:</u>** The Preliminary Plans (Exhibit A) demonstrate sidewalks along SW Tonquin Road, SW Oregon Street, and SW Laurelwood Way. Planned sidewalks are 12 feet in width adjacent to arterial streets to accommodate the planned Ice Age Trail. Sidewalks along SW Laurelwood Way are shown at 6 feet in width. These criteria are met.

#### 16.106.070 - Bike Lanes

If shown in Figure 13 of the Transportation System Plan, bicycle lanes shall be installed in public rights-of-way, in accordance with City specifications. Bike lanes shall be installed on both sides of designated roads, should be separated from the road by a twelve-inch stripe or other means approved by Engineering Staff, and should be a minimum of five (5) feet wide.

Response:Bicycle lanes are currently provided along both sides of SW Oregon Street. Bicycle lanes<br/>are not currently provided along both sides of SW Tonquin Road. Right-of-way is planned<br/>for dedication along SW Tonquin Road to provide for future improvements related to the<br/>SW Oregon Street/SW Tonquin Road roundabout and bicycle lanes leading to the<br/>intersection. SW Laurelwood Way is not planned to provide bicycle lanes. This criterion is<br/>met.

### 16.106.080 - Traffic Impact Analysis (TIA)

A. Purpose

The purpose of this section is to implement Sections 660-012-0045(2)(b) and -0045(2)(c) of the State Transportation Planning Rule (TPR), which require the City to adopt performance standards and a process to apply conditions to land use proposals in order to minimize impacts on and protect transportation facilities. This section establishes requirements for when a traffic impact analysis (TIA) must be prepared and submitted; the analysis methods and content involved in a TIA; criteria used to review the TIA; and authority to attach conditions of approval to minimize the impacts of the proposal on transportation facilities.

This section refers to the TSP for performance standards for transportation facilities as well as for projects that may need to be constructed as mitigation measures for a proposal's projected impacts. This section also relies on the City's Engineering Design Manual to provide street design standards and construction specifications for improvements and projects that may be constructed as part of the proposal and mitigation measures approved for the proposal.



## B. Applicability

A traffic impact analysis (TIA) shall be required to be submitted to the City with a land use application at the request of the City Engineer or if the proposal is expected to involve one (1) or more of the following:

- 1. An amendment to the Sherwood Comprehensive Plan or zoning map.
- 2. A new direct property approach road to Highway 99W is proposed.
- 3. The proposed development generates fifty (50) or more PM peak-hour trips on Highway 99W, or one hundred (100) PM peak-hour trips on the local transportation system.
- 4. An increase in use of any adjacent street or direct property approach road to Highway 99W by ten (10) vehicles or more per day that exceed the twenty thousand-pound gross vehicle weight.
- 5. The location of an existing or proposed access driveway does not meet minimum spacing or sight distance requirements, or is located where vehicles entering or leaving the property are restricted, or such vehicles are likely to queue or hesitate at an approach or access connection, thereby creating a safety hazard.
- 6. A change in internal traffic patterns that may cause safety problems, such as back up onto the highway or traffic crashes in the approach area.

## C. Requirements

The following are typical requirements that may be modified in coordination with Engineering Staff based on the specific application.

- 1. Pre-application Conference. The applicant shall meet with the City Engineer prior to submitting an application that requires a TIA. This meeting will be coordinated with Washington County and ODOT when an approach road to a County road or Highway 99W serves the property, so that the TIA will meet the requirements of all relevant agencies.
- 2. Preparation. The TIA shall be prepared by an Oregon Registered Professional Engineer qualified to perform traffic Engineering analysis and will be paid for by the applicant.
- 3. Typical Average Daily Trips and Peak Hour Trips. The latest edition of the Trip Generation Manual, published by the Institute of Transportation Engineers (ITE), shall be used to gauge PM peak hour vehicle trips, unless a specific trip generation study that is approved by the City Engineer indicates an alternative trip generation rate is appropriate.
- Intersection-level Analysis. Intersection-level analysis shall occur at every intersection where the analysis shows that fifty (50) or more peak hour vehicle trips can be expected to result from the development.
- 5. Transportation Planning Rule Compliance. The requirements of OAR 660-012-0060 shall apply to those land



use actions that significantly affect the transportation system, as defined by the Transportation Planning Rule.

## D. Study Area

The following facilities shall be included in the study area for all TIAs:

- 1. All site-access points and intersections (signalized and unsignalized) adjacent to the proposed development site. If the site fronts an arterial or collector street, the analysis shall address all intersections and driveways along the site frontage and within the access spacing distances extending out from the boundary of the site frontage.
- 2. Roads and streets through and adjacent to the site.
- 3. All intersections needed for signal progression analysis.
- 4. In addition to these requirements, the City Engineer may require analysis of any additional intersections or roadway links that may be adversely affected as a result of the proposed development.
- E. Analysis Periods

To adequately assess the impacts of a proposed land use action, the following study periods, or horizon years, should be addressed in the transportation impact analysis where applicable:

- 1. Existing Year.
- 2. Background Conditions in Project Completion Year. The conditions in the year in which the proposed land use action will be completed and occupied, but without the expected traffic from the proposed land use action. This analysis should account for all City-approved developments that are expected to be fully built out in the proposed land use action horizon year, as well as all planned transportation system improvements.
- 3. Full Buildout Conditions in Project Completion Year. The background condition plus traffic from the proposed land use action assuming full build-out and occupancy.
- 4. Phased Years of Completion. If the project involves construction or occupancy in phases, the applicant shall assess the expected roadway and intersection conditions resulting from major development phases. Phased years of analysis will be determined in coordination with City staff.
- 5. Twenty-Year or TSP Horizon Year. For planned unit developments, comprehensive plan amendments or zoning map amendments, the applicant shall assess the expected future roadway, intersection, and land use conditions as compared to approved comprehensive planning documents.

## F. Approval Criteria

When a TIA is required, a proposal is subject to the following criteria, in addition to all criteria otherwise applicable to the underlying land use proposal:

1. The analysis complies with the requirements of 16.106.080.C;



- 2. The analysis demonstrates that adequate transportation facilities exist to serve the proposed development or identifies mitigation measures that resolve identified traffic safety problems in a manner that is satisfactory to the City Engineer and, when County or State highway facilities are affected, to Washington County and ODOT;
- 3. For affected non-highway facilities, the TIA demonstrates that mobility and other applicable performance standards established in the adopted City TSP have been met; and
- 4. Proposed public improvements are designed and will be constructed to the street standards specified in Section 16.106.010 and the Engineering Design Manual, and to the access standards in Section 16.106.040.
- 5. Proposed public improvements and mitigation measures will provide safe connections across adjacent right-of-way (e.g., protected crossings) when pedestrian or bicycle facilities are present or planned on the far side of the rightof-way.
- G. Conditions of Approval

The City may deny, approve, or approve a development proposal with conditions needed to meet operations and safety standards and provide the necessary right-of-way and improvements to ensure consistency with the future planned transportation system. Improvements required as a condition of development approval, when not voluntarily provided by the applicant, shall be roughly proportional to the impact of the development on transportation facilities, pursuant to Section 16.106.090. Findings in the development approval shall indicate how the required improvements are directly related to and are roughly proportional to the impact of development.

**Response:** A Traffic Impact Analysis (TIA) has been prepared for the project and is attached to this application as Exhibit G. The TIA meets the applicable requirements listed above.

## 16.106.090 - Rough Proportionality

A. Purpose

The purpose of this section is to ensure that required transportation facility improvements are roughly proportional to the potential impacts of the proposed development. The rough proportionality requirements of this section apply to both frontage and non-frontage improvements. A proportionality analysis will be conducted by the City Engineer for any proposed development that triggers transportation facility improvements pursuant to this chapter. The City Engineer will take into consideration any benefits that are estimated to accrue to the development property as a result of any required transportation facility improvements. A proportionality determination can be appealed pursuant to Chapter 16.76. The following general provisions apply whenever a proportionality analysis is conducted.

B. Mitigation of impacts due to increased demand for transportation facilities associated with the proposed development shall be provided in rough proportion to the transportation impacts of the proposed development. When applicable, anticipated impacts will be



determined by the TIA in accordance with Section 16.106.080. When no TIA is required, anticipated impacts will be determined by the City Engineer.

- C. The following shall be considered when determining proportional improvements:
  - 1. Condition and capacity of existing facilities within the impact area in relation to City standards. The impact area is generally defined as the area within a one-half-mile radius of the proposed development. If a TIA is required, the impact area is the TIA study area.
  - 2. Existing vehicle, bicycle, pedestrian, and transit use within the impact area.
  - 3. The effect of increased demand on transportation facilities and other approved, but not yet constructed, development projects within the impact area that is associated with the proposed development.
  - 4. Applicable TSP goals, policies, and plans.
  - 5. Whether any route affected by increased transportation demand within the impact area is listed in any City program including school trip safety; neighborhood traffic management; capital improvement; system development improvement, or others.
  - 6. Accident history within the impact area.
  - 7. Potential increased safety risks to transportation facility users, including pedestrians and cyclists.
  - 8. Potential benefit the development property will receive as a result of the construction of any required transportation facility improvements.
  - 9. Other considerations as may be identified in the review process pursuant to Chapter 16.72.
- Response:Proportionate share is reviewed as part of the attached Traffic Impact Analysis (Exhibit<br/>G). Proportionate share in the amount of \$45,833.33 was determined as an appropriate<br/>contribution to City TSP Project Number D33 (Construct Northbound Left Turn Lane &<br/>Southbound Right Turn Lane).

Appropriate mitigation for Project D3 (SW Oregon Street/SW Tonquin Road roundabout) was determined to be the dedication of the necessary right-of-way.

Further details are available within the Oregon Street Business Park Transportation Impact Analysis (Exhibit G). These criteria are met.

Chapter 16.108 - IMPROVEMENT PLAN REVIEW

16.108.010 - Preparation and Submission

An improvement plan shall be prepared and stamped by a Registered Civil Engineer certifying compliance with City specifications. Two (2) sets of the plan shall be submitted to the City for review. An improvements plan shall be accompanied by a review fee as per this Section.

A. Review Fee



Plan review fees are calculated as a percentage of the estimated total cost of improvements and are set by the "Schedule of Development and Business Fees" adopted by Resolution of the Council. This schedule is included herein for the purposes of information, but is deemed to be separate from and independent of this Code.

B. Engineering Agreement

A copy of an agreement or contract between the applicant and Registered Civil Engineer for:

- 1. Surveying sufficient to prepare construction plans.
- 2. Preparation of construction plans and specifications.
- 3. Construction staking, and adequate inspection.
- 4. Construction notes sufficient to develop accurate as-built plans.
- 5. Drawing of accurate as-built plans and submission of reproducible mylars for finals to the City.
- 6. Certificate stating that construction was completed in accordance with required plans and specifications.
- **<u>Response:</u>** The project proposes the construction of new public facilities. Plans prepared by a registered Civil Engineer certifying compliance with City specifications will be submitted as part of construction permit submittal. These criteria are met.

#### Chapter 16.110 - SANITARY SEWERS

#### 16.110.010 - Required Improvements

Sanitary sewers shall be installed to serve all new developments and shall connect to existing sanitary sewer mains. Provided, however, that when impractical to immediately connect to a trunk sewer system, the use of septic tanks may be approved, if sealed sewer laterals are installed for future connection and the temporary system meets all other applicable City, Clean Water Services, Washington County and State sewage disposal standards.

#### 16.110.020 - Design Standards

A. Capacity

Sanitary sewers shall be constructed, located, sized, and installed at standards consistent with this Code, the Sanitary Sewer Service Plan Map in the Sanitary Sewer Master Plan, and other applicable Clean Water Services and City standards, in order to adequately serve the proposed development and allow for future extensions.

- B. Over-Sizing
  - 1. When sewer facilities will, without further construction, directly serve property outside a proposed development, gradual reimbursement may be used to equitably distribute the cost of that over-sized system.
  - 2. Reimbursement shall be in an amount estimated by the City to be a proportionate share of the cost for each connection made to the sewer by property owners outside of the development, for a period of ten (10) years from the time of installation of the sewers. The boundary of the reimbursement area and the method of determining proportionate shares shall be determined by the City.



Reimbursement shall only be made as additional connections are made and shall be collected as a surcharge in addition to normal connection charges.

16.110.030 - Service Availability

Approval of construction plans for new facilities pursuant to Chapter 16.106, and the issuance of building permits for new development to be served by existing sewer systems shall include certification by the City that existing or proposed sewer facilities are adequate to serve the development.

**<u>Response:</u>** Planned improvements related to sanitary sewer are shown on the Preliminary Sanitary and Water Plan in Exhibit A. The project proposes to route the site's private sanitary system to a public sanitary main, constructed by others under separate permit, within the no-name right-of-way south of the site. This main line then routes the sanitary sewer to an existing line northwest of the SW Oregon Street/SW Tonquin Road intersection. These criteria are met.

### Chapter 16.112 - WATER SUPPLY\*

16.112.010 - Required Improvements

Water lines and fire hydrants conforming to City and Fire District standards shall be installed to serve all building sites in a proposed development. All waterlines shall be connected to existing water mains or shall construct new mains appropriately sized and located in accordance with the Water System Master Plan.

### 16.112.020 - Design Standards

A. Capacity

Water lines providing potable water supply shall be sized, constructed, located and installed at standards consistent with this Code, the Water System Master Plan, the City's Design and Construction Manual, and with other applicable City standards and specifications, in order to adequately serve the proposed development and allow for future extensions.

B. Fire Protection

All new development shall comply with the fire protection requirements of Chapter 16.116, the applicable portions of Chapter 7 of the Community Development Plan, and the Fire District.

- C. Over-Sizing
  - 1. When water mains will, without further construction, directly serve property outside a proposed development, gradual reimbursement may be used to equitably distribute the cost of that over-sized system.
  - 2. Reimbursement shall be in an amount estimated by the City to be the proportionate share of the cost of each connection made to the water mains by property owners outside the development, for a period of ten (10) years from the time of installation of the mains. The boundary of the reimbursement area and the method of determining proportionate shares shall be determined by the City. Reimbursement shall only be made as additional connections are made and shall be collected as a surcharge in addition to normal connection charges.



3. When over-sizing is required in accordance with the Water System Master Plan, it shall be installed per the Water System Master Plan. Compensation for over-sizing may be provided through direct reimbursement, from the City, after mainlines have been accepted. Reimbursement of this nature would be utilized when the cost of over-sizing is for system wide improvements.

16.112.030 - Service Availability

Approval of construction plans for new water facilities pursuant to Chapter 16.106, and the issuance of building permits for new development to be served by existing water systems shall include certification by the City that existing or proposed water systems are adequate to serve the development.

**<u>Response:</u>** According to comments provided by the City's Engineering Department in conjunction with the pre-application conference (PAC 20-10), there are currently a 24-inch and a 12-inch diameter public water line within SW Oregon Street adjacent to the site. Planned improvements related to water lines are shown on the Preliminary Sanitary and Water Plan in Exhibit A. The applicable standards are met.

## Chapter 16.114 - STORM WATER\*

### 16.114.010 - Required Improvements

Storm water facilities, including appropriate source control and conveyance facilities, shall be installed in new developments and shall connect to the existing downstream drainage systems consistent with the Comprehensive Plan and the requirements of the Clean Water Services water quality regulations contained in their Design and Construction Standards R&O 04-9, or its replacement.

### 16.114.020 - Design Standards

A. Capacity

Storm water drainage systems shall be sized, constructed, located, and installed at standards consistent with this Code, the Storm Drainage Master Plan Map, attached as Exhibit E, Chapter 7 of the Community Development Plan, other applicable City standards, the Clean Water Services Design and Construction standards R&O 04-9 or its replacement, and hydrologic data and improvement plans submitted by the developer.

B. On-Site Source Control

Storm water detention and groundwater recharge improvements, including but not limited to such facilities as dry wells, detention ponds, and roof top ponds shall be constructed according to Clean Water Services Design and Construction Standards.

C. Conveyance System

The size, capacity and location of storm water sewers and other storm water conveyance improvements shall be adequate to serve the development and accommodate upstream and downstream flow. If an upstream area discharges through the property proposed for development, the drainage system shall provide capacity to the receive storm water discharge from the upstream area. If downstream drainage systems are not sufficient to receive an increase in storm water caused by new development, provisions shall be made by the developer to increase the downstream capacity or to provide



detention such that the new development will not increase the storm water caused by the new development.

16.114.030 - Service Availability

Approval of construction plans for new storm water drainage facilities pursuant to Chapter 16.106, and the issuance of building permits for new development to be served by existing storm water drainage systems shall include certification by the City that existing or proposed drainage facilities are adequate to serve the development.

Response:Planned improvements related to stormwater are shown on the Preliminary Sanitary and<br/>Water Plan in Exhibit A. A Preliminary Stormwater Report is attached as Exhibit D. A CWS<br/>Service Provider Letter is attached as Exhibit J. The applicable standards are or will be<br/>met.

#### Chapter 16.116 - FIRE PROTECTION\*

#### 16.116.010 - Required Improvements

When land is developed so that any commercial or industrial structure is further than two hundred and fifty (250) feet or any residential structure is further than five hundred (500) feet from an adequate water supply for fire protection, as determined by the Fire District, the developer shall provide fire protection facilities necessary to provide adequate water supply and fire safety.

#### 16.116.020 - Standards

A. Capacity

All fire protection facilities shall be approved by and meet the specifications of the Fire District, and shall be sized, constructed, located, and installed consistent with this Code, Chapter 7 of the Community Development Plan, and other applicable City standards, in order to adequately protect life and property in the proposed development.

B. Fire Flow

Standards published by the Insurance Services Office, entitled "Guide for Determination of Required Fire Flows" shall determine the capacity of facilities required to furnish an adequate fire flow. Fire protection facilities shall be adequate to convey quantities of water, as determined by ISO standards, to any outlet in the system, at no less than twenty (20) pounds per square inch residual pressure. Water supply for fire protection purposes shall be restricted to that available from the City water system. The location of hydrants shall be taken into account in determining whether an adequate water supply exists.

C. Access to Facilities

Whenever any hydrant or other appurtenance for use by the Fire District is required by this Chapter, adequate ingress and egress shall be provided. Access shall be in the form of an improved, permanently maintained roadway or open paved area, or any combination thereof, designed, constructed, and at all times maintained, to be clear and unobstructed. Widths, height clearances, ingress and egress shall be adequate for District firefighting equipment. The Fire District, may further prohibit vehicular parking along private accessways in order to keep them clear and unobstructed, and cause notice to that effect to be posted.

D. Hydrants

Hydrants located along private, accessways shall either have curbs painted yellow or otherwise marked prohibiting parking for a distance of at least fifteen (15) feet in either direction, or where curbs do not exist, markings shall be painted on the pavement, or signs erected, or both, given notice that parking is prohibited for at least fifteen (15) feet in either direction.

**<u>Response:</u>** Adequate water supply consisting of a 12-inch-diameter public water main within SW Oregon Street is available along the property frontage. Fire hydrants will be placed at locations approved by the City and Tualatin Valley Fire & Rescue to ensure adequate access and flows for the proposed structures. No deficiencies have been identified. Tualatin Valley Fire & Rescue provided comments which will be addressed with building permit applications and prior to occupancy of the structures. The applicable criteria are met.

#### 16.116.030 - Miscellaneous Requirements

A. Timing of Installation

When fire protection facilities are required, such facilities shall be installed and made serviceable prior to or at the time any combustible construction begins on the land unless, in the opinion of the Fire District, the nature or circumstances of said construction makes immediate installation impractical.

B. Maintenance of Facilities

All on-site fire protection facilities, shall be maintained in good working order. The Fire District may conduct periodic tests and inspection of fire protection and may order the necessary repairs or changes be made within ten (10) days.

C. Modification of Facilities

On-site fire protection facilities, may be altered or repaired with the consent of the Fire District; provided that such alteration or repairs shall be carried out in conformity with the provisions of this Chapter.

**<u>Response:</u>** These standards are understood, and fire protection installation will be timed so as to be serviceable prior to or at the time that combustible construction begins on the project site. These criteria are met or will be met as applicable.

#### Chapter 16.118 - PUBLIC AND PRIVATE UTILITIES

#### 16.118.010 - Purpose

Public telecommunication conduits as well as conduits for franchise utilities including, but not limited to, electric power, telephone, natural gas, lighting, and cable television shall be installed to serve all newly created lots and developments in Sherwood.

#### 16.118.020 - Standard

A. Installation of utilities shall be provided in public utility easements and shall be sized, constructed, located and installed consistent with this Code, and applicable utility company and City standards.



- B. Public utility easements shall be a minimum of eight (8) feet in width unless a reduced width is specifically exempted by the City Engineer. An eight-foot wide public utility easement (PUE) shall be provided on private property along all public street frontages. This standard does not apply to developments within the Old Town Overlay.
- C. Where necessary, in the judgment of the City Manager or his designee, to provide for orderly development of adjacent properties, public and franchise utilities shall be extended through the site to the edge of adjacent property(ies).
- D. Franchise utility conduits shall be installed per the utility design and specification standards of the utility agency.
- E. Public Telecommunication conduits and appurtenances shall be installed per the City of Sherwood telecommunication design standards.
- F. Exceptions: Installation shall not be required if the development does not require any other street improvements. In those instances, the developer shall pay a fee in lieu that will finance installation when street or utility improvements in that location occur.
- **<u>Response:</u>** The required 8-foot PUE is shown on the Preliminary Plans attached as Exhibit A. Franchise utilities are anticipated to be located and installed consistent with the SZCDC, City, and utility company standards. These criteria are met.

### 16.118.030 - Underground Facilities

Except as otherwise provided, all utility facilities, including but not limited to, electric power, telephone, natural gas, lighting, cable television, and telecommunication cable, shall be placed underground, unless specifically authorized for above ground installation, because the points of connection to existing utilities make underground installation impractical, or for other reasons deemed acceptable by the City.

### 16.118.040 - Exceptions

Surface-mounted transformers, surface-mounted connection boxes and meter cabinets, temporary utility service facilities during construction, high capacity electric and communication feeder lines, and utility transmission lines operating at fifty thousand (50,000) volts or more may be located above ground. The City reserves the right to approve location of all surface-mounted transformers.

**<u>Response:</u>** A number of overhead utilities are currently located along the SW Oregon Street and SW Tonquin Road frontages. These utilities will be placed underground where appropriate and required. The location of surface-mounted transformers, connection boxes, and meter cabinets are planned to be determined with construction plans. These criteria are met.

## Division VIII. - ENVIRONMENTAL RESOURCES

## Chapter 16.134 - FLOODPLAIN (FP) OVERLAY

### 16.134.010 - Generally

Special resource zones are established to provide for preservation, protection, and management of unique natural and environmental resources in the City that are deemed to require additional standards beyond those contained elsewhere in this Code. Special resource zones may be implemented as


underlying or overlay zones depending on patterns of property ownership and the nature of the resource. A property or properties may be within more than one resource zone. In addition, the City may identify special resource areas and apply a PUD overlay zone in advance of any development in order to further protect said resources.

The areas of special flood hazard identified by the Federal Insurance Administration in a scientific and engineering report entitled, "The Flood Insurance Study for Washington County, Oregon and Incorporated Areas," (flood insurance study) dated October 19, 2018, with accompanying Flood Insurance Maps are hereby adopted by reference and declared to be a part of this ordinance. The Flood Insurance Study is on file with the Sherwood City Engineer at Sherwood City Hall.

### 16.134.020 - Purpose

The purpose of this ordinance is to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by complying with the provisions of this chapter.

- A. The FP zoning district is an overlay district that controls and regulates flood hazard areas in order to protect the public health, safety and general welfare; to reduce potential flood damage losses; and to protect floodways and natural drainageways from encroachment by uses which may adversely affect water quality and water flow and subsequent upstream or downstream flood levels. The FP zone shall be applied to all areas within the base flood, and shall supplement the regulations of the underlying zoning district.
- B. FP zoning districts are areas within the base flood as identified by the Federal Emergency Management Agency (FEMA) in a Flood Insurance Study (FIS) and in Flood Insurance Rate Maps (FIRM) published for the City and surrounding areas, or as otherwise identified in accordance with Section 16.134.020C. These FEMA documents are adopted by reference as part of this Code, and are on file at the City.
- C. When base flood elevation data is not available from the FIS or FIRM, the City shall obtain, review, and reasonably utilize any base flood elevation and floodway data available from a federal, state, or other source, and standards developed by the FEMA, in order to administer the provisions of this Code.
- D. In areas where a regulatory floodway has not been designated, and where the Flood Insurance Study indicates that it is possible to calculate a floodway, no new construction, substantial improvements, or other development (including fill) shall be permitted within Zones A1-30 and AE on the community's FIRM, unless it is demonstrated that the cumulative effect of the proposed development, when combined with all other existing and anticipated development, will not increase the water surface elevation of the base flood more than one foot at any point within the community.

### 16.134.030 - Greenways

The FP zoning districts overlaying the Rock Creek and Cedar Creek floodplains are designated greenways in accordance with Chapter 5 of the Community Development Plan. All development in these two floodplains shall be governed by the policies in Division V, Chapter 16.142 of this Code, in addition to the requirements of this Section and the Clean Water Services Design and Construction Standards R&O 07-20, or its replacement.



**Response:** The western portion of the site nearest the intersection of SW Oregon Street and SW Tonquin Road has been designated a floodplain. This portion of the site is not planned to be improved for structures. Part of the area will be dedicated as right-of-way for the eventual construction of a roundabout. The remainder of the floodplain area is planned to be used as a stormwater facility for the management of stormwater runoff from the project site.

16.134.040 - Development Review and Floodplain Administrator Duties

- A. The City Engineer is the designated local Floodplain Administrator and is responsible for maintaining local floodplain management records for the City.
- B. Provided land is not required to be dedicated as per Section 16.134.030, a conditional use permit (CUP) is required before any use, construction, fill, or alteration of a floodplain, floodway, or watercourse, or any other development begins within any FP zone, except as provided in Section 16.134.050.
- C. Application for a CUP for development in a floodplain shall conform to the requirements of Chapter 16.82 and may include, but is not limited to, plans and scale drawings showing the nature, location, dimensions, and elevations of the area in question, existing or proposed structures, fill, storage of materials, and drainage facilities.
- D. The following specific information is required in a floodplain CUP application and shall be certified and verified by a registered civil engineer or architect. The City shall maintain such certifications as part of the public record. All certifications shall be based on the asbuilt elevations of lowest building floors.
  - 1. Elevations in relation to the current FIRM and FIS of the lowest floor (including basement) of all structures;
  - 2. Elevations in relation to the current FIRM and FIS to which any structure has been flood proofed.
  - 3. That the flood proofing methods for any structure meet the requirements of this section, Floodplain Structures.
  - 4. Description of the extent to which any watercourse will be altered or relocated as a result of the proposed development.
  - 5. A base flood survey and impact study made by a registered civil engineer.
  - 6. Proof all necessary notifications have been sent to, and permits have been obtained from, those federal, state, or other local government agencies for which prior approval of the proposed development is required.
  - 7. Any other information required by this section, by any applicable federal regulations, or as otherwise determined by the City to be necessary for the full and proper review of the application.
- E. The floodplain administrator shall review all development permits to determine if the proposed development is located in the floodway. If located in the floodway, assure that the encroachment provisions of Section 16.134.070.F are met.



- F. Where base flood elevation data is provided through the Flood Insurance Study, FIRM or required under Section 16.134.020.C the local Floodplain Administrator shall:
  - 1. Obtain and record the actual elevation (in relation to mean sea level) of the lowest floor (including basement) of all new and substantially improved structures, and
  - 2. If the structure has been floodproofed in accordance with Sections 16.134.090.A.3 and D.1.a, then obtain the elevation (in relation to mean sea level) to which the structure was floodproofed, and
  - 3. Maintain all elevation and floodproofing certificates required under Section 16.134.040.D, and
  - 4. Maintain for public inspection all records pertaining to the provisions of this ordinance.
- G. Where elevation data is not available as per subsection D of this section, or from other sources as per Section 16.134.020.C, a floodplain CUP shall be reviewed using other relevant data, as determined by the City, such as historical information, high water marks, and other evidence of past flooding. The City may require utility structures and habitable building floor elevations, and building flood proofing, to be at least two feet above the probable base flood elevation, in such circumstances where more definitive flood data is not available.
- H. The floodplain administrator shall:
  - 1. Notify adjacent communities, the Department of Land Conservation and Development and other appropriate state and federal agencies, prior to any alteration or relocation of a watercourse, and submit evidence of such notification to the Federal Insurance Administration as required in Section 16.134.100.C.
  - 2. Require that maintenance is provided within the altered or relocated portion of said watercourse so that the flood carrying capacity is not diminished.
- I. The floodplain administrator shall make interpretations where needed, as to exact location of the boundaries of the areas of special flood hazards (for example, where there appears to be a conflict between a mapped boundary and actual field conditions). The person contesting the location of the boundary shall be given a reasonable opportunity to appeal the interpretation. Such appeals shall be granted consistent with the standards of Section 60.6 of the Rules and Regulations of the National Flood Insurance Program (44 CFR 59-76).
- J. Variances to any standard within the floodplain overlay shall comply with the provisions of the Code of Federal Regulations (CFR) section 44 CFR 60.6(a)(1)—(7).
- 16.134.050 Permitted Uses

In the FP zone the following uses are permitted outright, and do not require a CUP, provided that floodway flow, or floodplain capacity, will not be impeded, as determined by the City, and when greenway dedication is not required as per Section 16.134.030.



- A. Agricultural uses, provided that associated structures are not allowed, except for temporary building and boundary fences that do not impede the movement of floodwaters and flood-carried materials.
- B. Open space, park and recreational uses, and minor associated structures, if otherwise allowed in the underlying zoning district that do not impede the movement of floodwaters and flood-carried materials.
- C. Public streets and appurtenant structures, and above and underground utilities, subject to the provisions of Sections 16.134.080 and 16.134.090.
- D. Other accessory uses allowed in the underlying zoning district that do not involve structures, and will not, in the City's determination, materially alter the stability or storm drainage absorption capability of the floodplain.
- **<u>Response:</u>** The project does not plan industrial development within the floodplain zones present on the property. The provision of public streets, sidewalks, and underground utilities, if required, is planned within the FP-zoned areas of the property. These uses are permitted outright through Sections C and D, above; therefore, these criteria are met.

### 16.134.060 - Conditional Uses

In the FP zone the following uses are permitted as conditional uses, subject to the provisions of this Section and Chapter 16.82, when greenway dedication is not required as per this Section.

### Greenways:

A. Any permitted or conditional use allowed in the underlying zoning district, when located in the flood fringe only, as specifically defined by this Code.

### 16.134.070 - Prohibited Uses

In the FP zone the following uses are expressly prohibited:

- A. The storage or processing of materials that are buoyant, flammable, contaminants, explosive, or otherwise potentially injurious to human, animal or plant life.
- B. Public and private sewerage treatment systems, including drainfields, septic tanks and individual package treatment plants.
- C. Any use or activity not permitted in the underlying zoning district.
- D. Any use or activity that, in the City's determination, will materially alter the stability or storm drainage absorption capability of the floodplain.
- E. Any use or activity that, in the City's determination, could create an immediate or potential hazard to the public health, safety and welfare, if located in the floodplain.
- F. Any use, activity, or encroachment located in the floodway, including fill, new construction, improvements to existing developments, or other development, except as otherwise allowed by Section 16.134.050 and unless certification by a registered professional engineer or architect is provided demonstrating through hydrologic and hydraulic analyses performed in accordance with standard engineering practice that the use, activity, or encroachment will not



result in any increase to flood levels during the occurrence of the base flood discharge.

- a. If paragraph F of this section is satisfied, all new construction and substantial improvements shall comply with all applicable flood hazard provisions of Sections 16.134.080 and .090, or ASCE 24, whichever is more stringent.
- G. The storage of recreational vehicles. This is the most restrictive provision wherein.
- **<u>Response:</u>** Prohibited activities have not been proposed within the floodplain areas. These criteria are met.

### 16.134.080 - Floodplain Development

- A. Floodplain Alterations
  - 1. Floodplain Survey

The floodplain, including the floodway and flood fringe areas, shall be surveyed by a registered land surveyor or civil engineer, and approved by the City, based on the findings of the flood insurance study and other available data. Such delineation shall be based on the current FIRM and FIS data and be field-located from recognized valid benchmarks.

2. Grading Plan

Alteration of the existing topography of floodplain areas may be made upon approval of a grading plan by the City. The plan shall include both existing and proposed topography and a plan for alternate drainage. Contour intervals for existing and proposed topography shall be included and shall be not more than one foot for ground slopes up to five percent (5%) and for areas immediately adjacent to a stream or drainage way, two feet for ground slopes between five and ten percent (5% to 10%), and five feet for greater slopes.

- 3. Fill and Diked Lands
  - a. Proposed floodplain fill or diked lands may be developed if a site plan for the area to be altered within the floodplain is prepared and certified by a registered civil engineer and approved by the Commission pursuant to the applicable provisions of this Code.
  - b. Vehicular access shall be provided from a street above the elevation of the base flood to any proposed fill or dike area if the area supports structures for human occupancy. Unoccupied fill or dike areas shall be provided with emergency vehicle access.
- 4. Alteration Site Plan
  - a. The certified site plan prepared by a registered civil engineer or architect for an altered floodplain area shall show that:
    - (1) Proposed improvements will not alter the flow of surface water during flooding such

as to cause a compounding of flood hazards or changes in the direction or velocity of floodwater flow.

- (2) No structure, fill, storage, impervious surface or other uses alone, or in combination with existing or future uses, will materially reduce the capacity of the floodplain or increase in flood heights.
- (3) Proposed floodplain fill or diked areas will benefit the public health, safety and welfare and incorporate adequate erosion and storm drainage controls, such as pumps, dams and gates.
- (4) No serious environmental degradation shall occur to the natural features and existing ecological balance of upstream and downstream areas.
- (5) On-going maintenance of altered areas is provided so that flood-carrying capacity will not be diminished by future erosion, settling, or other factors.
- b. Applicants must obtain a conditional letter of map revision (CLOMR) from FEMA before any encroachment, including fill, new construction, substantial improvement, or other development, in the regulatory floodway is permitted. Applicants are responsible for preparing technical data to support the CLOMR application and paying any processing or application fees to FEMA.
- **<u>Response:</u>** Encroachment into floodplain areas has not been planned as these areas are generally located within the bisected portion of the lot on the west side of SW Tonquin Road or within areas to be dedicated as right-of-way. These criteria do not apply.

### Chapter 16.136 – PROCEDURES

### 16.136.010 – Applicability

The standards of this Chapter, and applicable portions of Chapter 5 of the Community Development Plan, shall apply to any new uses or changes to existing uses in commercial, industrial and institutional zones, except as per Section 16.136.050.

### 16.136.020 – Conformance

Conformance with the standards of this Chapter shall, at a minimum, be certified in writing by a professional engineer and submitted with the application for site plan review required by Chapter 16.90, except as per Section 16.136.050. The written certification shall include:

A. Statement certifying that the proposed commercial, industrial or institutional use, if properly managed and operated, will comply with City environmental performance standards, and citing evidence supporting the certification.



B. Copies of any applicable State permits or recent test results, if available, which would indicate compliance with City environmental performance standards.

16.136.030 - Additional Information

- A. Prior to accepting any land use application to which this Chapter applies, the City Manager or his or her designee, may determine that additional expertise in evaluating the application, due to the complexity of its impact on environmental resources, is warranted. Under such circumstances, the City may contract with a professional engineer or other qualified consultant to evaluate and make recommendations on specific application elements relative to City environmental resource standards.
- B. Upon the City's determination that additional expertise is needed, the applicant shall deposit a sum equal to the estimated cost, as determined by the City, of such professional services. If the actual cost of such services is more than estimated, the applicant shall be responsible for the difference, provided however, that the applicant's financial responsibilities will not exceed ten percent (10%) of the estimate without prior written authorization. If the cost of such services is less than the estimate, the balance of the deposit shall be returned to the applicant upon final action on their land use application.

### 16.136.040 - Referenced Statutes and Rules

The Federal, State or regional statutes and rules cited in this Chapter are made part of this Code by reference. The statutes and rules cited are as current at the time of adoption of this Code. If a referenced statute or rule is amended by Federal, State or regional agencies, this Code must be amended for the new statute or rule to take precedence.

16.136.050 - Exceptions

The City shall make an initial determination whether a proposed development is subject to any of the standards of this Chapter, or whether the development is exempt. The City Manager or his or her designee is authorized to waive all or some of these standards when a proposed development clearly does not represent a substantial impact on the City's environmental resource standards as per this Chapter. The findings of the City Manager or his or her designee shall be made in writing, and copies shall be forwarded to the applicant and the Commission. The action of the City Manager or his or her designee may be appealed as per Chapter 16.76.

**<u>Response:</u>** Encroachment into floodplain areas has not been planned as these areas are generally located within the bisected portion of the lot on the west side of SW Tonquin Road or within areas to be dedicated as right-of-way. These criteria do not apply.

Chapter 16.140 - SOLID WASTE

16.140.030 - Accessory Use Solid Waste Facilities

A. The following solid waste facilities are permitted, subject to the applicable regulations of the zone, as an accessory use to a permitted



or conditional use without being subject to the conditional use review:

- 1. Household hazardous waste depot, provided the facility is accessory to a public facility or to a use in an industrial zone.
- 2. Small scale specialized incinerator, provided the facility complies with Section 16.140.020 and does not accept more than two-hundred twenty (220) pounds per day of waste from off-site.
- 3. Recycling drop boxes, provided they also comply with Section 16.140.090.E.5.
- **<u>Response:</u>** The aforementioned uses are not planned for the project at this time. Solid waste uses outlined within Chapter 16.140 are not proposed; therefore, these criteria are not applicable.

Chapter 16.142 - PARKS, TREES AND OPEN SPACES

16.142.040 - Visual Corridors

A. Corridors Required

New developments located outside of the Old Town Overlay with frontage on Highway 99W, or arterial or collector streets designated on Figure 8-1 of the Transportation System Plan shall be required to establish a landscaped visual corridor according to the following standards:

	Category	Width
2	Arterial	15 feet
	In residential developments wh adjoining the above described m placed in the road right-of-way b sidewalk. In all other developmen private property adjacent to the ris	ere fences are typically desired najor street the corridor may be between the property line and the ats, the visual corridor shall be on wht-of-way.

- **<u>Response:</u>** The project site is located outside of the Old Town Overlay district with frontage on two arterial streets, SW Oregon Street and SW Tonquin Road; therefore, a 15-foot-wide landscaped visual corridor is required adjacent to the arterial rights-of-way. These corridors are shown on the Preliminary Site Plan and Preliminary Landscape Plan contained within Exhibit A. These criteria are met.
  - B. Landscape Materials

The required visual corridor areas shall be planted as specified by the review authority to provide a continuous visual and/or acoustical buffer between major streets and developed uses. Except as provided for above, fences and walls shall not be substituted for landscaping within the visual corridor. Uniformly planted, drought resistant street trees and ground cover, as specified in Section 16.142.060, shall be planted in the corridor by the developer. The improvements shall be included in the compliance agreement. In no case shall trees be removed from the required visual corridor.

**<u>Response:</u>** Landscaping materials within the required visual corridors are planned to be planted in order to provide a continuous visual and acoustical buffer between major streets and the project site. Fences and walls have not been substituted for landscaping within the planned visual corridor. Uniformly planted, drought-resistant street trees and ground



cover, as specified by Section 16.142.060, have been planned within these areas. These criteria are met.

C. Establishment and Maintenance

Designated visual corridors shall be established as a portion of landscaping requirements pursuant to Chapter 16.92. To assure continuous maintenance of the visual corridors, the review authority may require that the development rights to the corridor areas be dedicated to the City or that restrictive covenants be recorded prior to the issuance of a building permit.

- **Response:** These standards are understood, and visual corridor areas are planned to be maintained as a portion of site landscaping. These criteria are met.
  - D. Required Yard

Visual corridors may be established in required yards, except that where the required visual corridor width exceeds the required yard width, the visual corridor requirement shall take precedence. In no case shall buildings be sited within the required visual corridor, with the exception of front porches on townhomes, as permitted in Section 16.44.010(E)(4)(c).

**<u>Response:</u>** The Preliminary Landscape and Site Plans attached show the planned visual corridors, required yards, or yards for which a variance is requested, meeting the applicable requirements of this section. These criteria are met.

16.142.060 - Street Trees

A. Installation of Street Trees on New or Redeveloped Property.

Trees are required to be planted to the following specifications along public streets abutting or within any new development or redevelopment. Planting of such trees shall be a condition of development approval. The City shall be subject to the same standards for any developments involving City-owned property, or when constructing or reconstructing City streets. After installing street trees, the property owner shall be responsible for maintaining the street trees on the owner's property or within the right-of-way adjacent to the owner's property.

- 1. Location: Trees shall be planted within the planter strip along a newly created or improved streets. In the event that a planter strip is not required or available, the trees shall be planted on private property within the front yard setback area or within public street right-of-way between front property lines and street curb lines or as required by the City.
- **<u>Response:</u>** Street trees are illustrated on the attached Preliminary Landscape Plan (Exhibit A) within the planter strips adjacent to SW Oregon Street, SW Tonquin Road, and SW Laurelwood Way. These criteria are met.
  - 2. Size: Trees shall have a minimum trunk diameter of two (2) caliper inches, which is measured six inches above the soil line, and a minimum height of six (6) feet when planted.
  - 3. Types: Developments shall include a variety of street trees. The trees planted shall be chosen from those listed in 16.142.080 of this Code.



**<u>Response:</u>** Street trees have been specified to meet the minimum specifications at planting. Varieties have been chosen from those listed in SZCDC 16.142.080. These criteria are met.

- 4. Required Street Trees and Spacing:
  - a. The minimum spacing is based on the maximum canopy spread identified in the recommended street tree list in section 16.142.080 with the intent of providing a continuous canopy without openings between the trees. For example, if a tree has a canopy of forty (40) feet, the spacing between trees is forty (40) feet. If the tree is not on the list, the mature canopy width must be provided to the planning department by a certified arborist.
  - b. All new developments shall provide adequate tree planting along all public streets. The number and spacing of trees shall be determined based on the type of tree and the spacing standards described in a. above and considering driveways, street light locations and utility connections. Unless exempt per c. below, trees shall not be spaced more than forty (40) feet apart in any development.
  - c. A new development may exceed the forty-foot spacing requirement under section b. above, under the following circumstances:
    - (1) Installing the tree would interfere with existing utility lines and no substitute tree is appropriate for the site; or
    - (2) There is not adequate space in which to plant a street tree due to driveway or street light locations, vision clearance or utility connections, provided the driveways, street light or utilities could not be reasonably located elsewhere so as to accommodate adequate room for street trees; and
    - (3) The street trees are spaced as close as possible given the site limitations in (1) and (2) above.
    - (4) The location of street trees in an ODOT or Washington County right-of-way may require approval, respectively, by ODOT or Washington County and are subject to the relevant state or county standards.
    - (5) For arterial and collector streets, the City may require planted medians in lieu of paved twelve-foot wide center turning lanes, planted with trees to the specifications of this subsection.
- **Response:** Street trees have been spaced per the above standards of SZCDC and based upon the maximum canopy spread of the selected tree variety. Since both SW Oregon Street and SW Tonquin Road are Washington County roadways, the placement of street trees must meet their standards and will be accomplished with right-of-way permitting. These



streets are arterial streets; however, these street sections are not planned to provide planted medians in lieu of turning lanes or planter strips. These standards have been met.

16.142.070 - Trees on Property Subject to Certain Land Use Applications

A. Generally

The purpose of this Section is to establish processes and standards which will minimize cutting or destruction of trees and woodlands within the City. This Section is intended to help protect the scenic beauty of the City; to retain a livable environment through the beneficial effect of trees on air pollution, heat and glare, sound, water quality, and surface water and erosion control; to encourage the retention and planting of tree species native to the Willamette Valley and Western Oregon; to provide an attractive visual contrast to the urban environment, and to sustain a wide variety and distribution of viable trees and woodlands in the community over time.

B. Applicability

All applications including a Type II - IV land use review, shall be required to preserve trees or woodlands, as defined by this Section to the maximum extent feasible within the context of the proposed land use plan and relative to other codes, policies, and standards of the City Comprehensive Plan.

- C. Inventory
  - 1. To assist the City in making its determinations on the retention of trees and woodlands, land use applications including Type II IV development shall include a tree and woodland inventory and report. The report shall be prepared by a qualified professional and must contain the following information:
    - a. Tree size (in DBH and canopy area)
    - b. Tree species
    - c. The condition of the tree with notes as applicable explaining the assessment
    - d. The location of the tree on the site
    - e. The location of the tree relative to the planned improvements
    - f. Assessment of whether the tree must be removed to accommodate the development
    - g. Recommendations on measures that must be taken to preserve trees during the construction that are not proposed to be removed.
- **<u>Response:</u>** The required materials, prepared by an arborist, are attached as part of Exhibit A. The required items have been inventoried for all trees on-site. These criteria are met.
  - 2. In addition to the general requirements of this Section, the tree and woodland inventory's mapping and report shall also include, but is not limited to, the specific information outlined in the appropriate land use application materials packet.



- **<u>Response:</u>** The attached materials contain the Preliminary Tree Preservation and Removal Plan (Exhibit A), illustrating trees that are marked for preservation and removal with the listed required information. These criteria are met.
  - 3. Definitions for the inventory purposes of this Section
    - a. A tree is a living woody plant having a trunk diameter as specified below at Diameter at Breast Height (DBH). Trees planted for commercial agricultural purposes, and/or those subject to farm forest deferral, such as nut and fruit orchards and Christmas tree farms, are excluded from this definition and from regulation under this Section, as are any living woody plants under six (6) inches at DBH. All trees six (6) inches or greater shall be inventoried.
    - b. A woodland is a biological community dominated by trees covering a land area of 20,000 square feet or greater at a density of at least fifty (50) trees per every 20,000 square feet with at least fifty percent (50%) of those trees of any species having a six (6) inches or greater at DBH. Woodlands planted for commercial agricultural purposes and/or subject to farm forest deferral, such as nut and fruit orchards and Christmas tree farms, are excluded from this definition, and from regulation under this Section.
    - c. A large stature tree is over 20 feet tall and wide with a minimum trunk diameter of 30 inches at DBH.
  - D. Retention requirements
    - 1. Trees may be considered for removal to accommodate the development including buildings, parking, walkways, grading etc., provided the development satisfies of D.2 or D.3, below.
- **<u>Response:</u>** Trees have been considered for removal based on the need to accommodate the construction of buildings, parking, walkways, and grading on the site. The tree canopy requirements are addressed below. This criterion is met.
  - [...]
  - 3. Required Tree Canopy Non-Residential and Multi-family Developments

Each net development site shall provide a variety of trees to achieve a minimum total tree canopy of 30 percent. The canopy percentage is based on the expected mature canopy of each tree by using the equation  $\pi r$  2 to calculate the expected square footage of each tree. The expected mature canopy is counted for each tree even if there is an overlap of multiple tree canopies.

The canopy requirement can be achieved by retaining existing trees or planting new trees. Required landscaping trees can be used toward the total on site canopy required to meet this standard. The expected mature canopy spread of the new trees will be counted toward the required canopy



cover. A certified arborist or other qualified professional shall provide an estimated tree canopy for all proposed trees to the planning department for review as a part of the land use review process.

	Commercial, Industrial, Institutional Public, and Multi-Family		
Canopy Requirement	30%		
Counted Toward the	Canopy Requirement		
Street trees included in canopy	No		
requirement			
Landscaping requirements included in	Yes		
canopy requirement			
Existing trees onsite	Yes		
	x2		
Planting new trees onsite Yes			
Mature Canopy in Square Feet Equation $\pi r^2$ or (3.14159*radius <sup>2</sup> ) (This is the calculation			
to measure the square footage of a circle.			
The Mature Canopy is given in diameter. In gardening and horticulture reference books,			
therefore to get the radius you must divide the diameter in half.			
Canopy Calculation Example: Pin Oak			
Mature canopy = 35'			
$(3.14159*17.5^{2}) = 962$ square feet			

**Response:** The subject property contains existing trees that must be removed for site development because of planned building and improvement locations and grading requirements. Trees that do not interfere with the development of the site are planned to be preserved. The Preliminary Landscape Plan (Exhibit A) shows 89 new trees are planned in order to comply with the 30 percent tree canopy requirement. Therefore, these criteria are met to the extent that they apply.

The Preliminary Landscape Plan (Exhibit A) shows, paired with the calculations above, an expected tree canopy coverage of  $\pm 180,082$  square feet,  $\pm 51.8$  percent of the total site area. The criteria applicable to this industrial project are met.

- 4. The City may determine that, regardless of D.1 through D.3, that certain trees or woodlands may be required to be retained. The basis for such a decision shall include; specific findings that retention of said trees or woodlands furthers the purposes and goals of this Section, is feasible and practical both within the context of the proposed land use plan and relative to other policies and standards of the City Comprehensive Plan, and are:
  - a. Within a Significant Natural Area, 100-year floodplain, City greenway, jurisdictional wetland or other existing or future public park or natural area designated by the City Comprehensive Plan, or
  - b. A landscape or natural feature as per applicable policies of the City Comprehensive Plan, or are necessary to keep other identified trees or woodlands on or near the site from being damaged or destroyed due to windfall, erosion, disease or other natural processes, or



			с.	Necessary for soil stability and the control of erosion, for managing and preserving surface or groundwater quantities or quality, or for the maintenance of a natural drainageway, as per Clean Water Services stormwater management plans and standards of the City Comprehensive Plan, or
			d.	Necessary in required buffers between otherwise incompatible land uses, or from natural areas, wetlands and greenways, or
			e.	Otherwise merit retention because of unusual size, size of the tree stand, historic association or species type, habitat or wildlife preservation considerations, or some combination thereof, as determined by the City.
Response:	These standards are un	derstood	d. These	situations are not anticipated on the project site.
		[]		
		7.	All trees property and op wetland other pu be retain or other vegetati City sha approva	s, woodlands, and vegetation located on any private y accepted for dedication to the City for public parks en space, greenways, Significant Natural Areas, s, floodplains, or for storm water management or for urposes, as a condition of a land use approval, shall ned outright, irrespective of size, species, condition factors. Removal of any such trees, woodlands, and on prior to actual dedication of the property to the all be cause for reconsideration of the land use plan d.
Response:	This standard is unders	tood, bu	t not ap	plicable to this project.
	E.	Tree Pro	eservatio	n Incentive
		Retention be used develop for exist mature twice th	on of exis to achie ment. The ting trees canopy of e existin	sting native trees on site which are in good health can eve the required mature canopy requirement of the he expected mature canopy can be calculated twice s. For example, if one existing tree with an expected of 10 feet (78.5 square feet) is retained it will count as g canopy (157 square feet).
Response:	Trees designated for p	reservati	on have	been calculated, where applicable, towards the
	mature canopy require	rements for the proposed development at the specified rate.		
	F.	Addition	nal Prese	ervation Incentives
		1.	General City m standard extent t standard section there we or welfa with just	Provisions. To assist in the preservation of trees, the ay apply one or more of the following flexible ds as part of the land use review approval. To the that the standards in this section conflict with the ds in other sections of this Title, the standards in this shall apply except in cases where the City determines buld be an unreasonable risk to public health, safety, are. Flexibility shall be requested by the applicant stification provided within the tree preservation and



protection report as part of the land use review process and is only applicable to trees that are eligible for credit towards the effective tree canopy cover of the site. A separate adjustment application as outlined in Section 16.84.030.A is not required.

- 2. Flexible Development Standards. The following flexible standards are available to applicants in order to preserve trees on a development site. These standards cannot be combined with any other reductions authorized by this code.
  - a. Lot size averaging. To preserve existing trees in the development plan for any Land Division under Division VII, lot size may be averaged to allow lots less than the minimum lot size required in the underlying zone as long as the average lot area is not less than that allowed by the underlying zone. No lot area shall be less than 80 percent of the minimum lot size allowed in the zone;

**<u>Response:</u>** Land division is not planned as part of this project; therefore, these criteria do not apply.

- b. Setbacks. The following setback reductions will be allowed for lots preserving existing trees using the criteria in subsection (1) below. The following reductions shall be limited to the minimum reduction necessary to protect the tree.
  - (1) **Reductions allowed:** 
    - (a.) Front yard up to a 25 percent reduction of the dimensional standard for a front yard setback required in the base zone. Setback of garages may not be reduced by this provision.
    - (b.) Interior setbacks up to a 40 percent reduction of the dimensional standards for an interior side and/or rear yard setback required in the base zone.
    - (c.) Perimeter side and rear yard setbacks shall not be reduced through this provision.
- **<u>Response:</u>** Preservation of many of the trees currently on-site is not possible due to their location within future rights-of-way or where future improvement is needed. Therefore, these criteria do not apply.
  - c. Approval criteria:
    - (1.) A demonstration that the reduction requested is the least required to preserve trees; and
    - (2.) The reduction will result in the preservation of tree canopy on the lot with the modified setbacks; and
    - (3.) The reduction will not impede adequate emergency access to the site and structure.



- **Response:** A setback reduction to preserve trees has not been sought; therefore, these criteria do not apply.
  - 3. Sidewalks. Location of a public sidewalk may be flexible in order to preserve existing trees or to plant new large stature street trees. This flexibility may be accomplished through a curb-tight sidewalk or a meandering public sidewalk easement recorded over private property and shall be reviewed on a case by case basis in accordance with the provisions of the Engineering Design Manual, Street and Utility Improvement Standards. For preservation, this flexibility shall be the minimum required to achieve the desired effect. For planting, preference shall be given to retaining the planter strip and separation between the curb and sidewalk wherever practicable. If a preserved tree is to be utilized as a street tree, it must meet the criteria found in the Street Tree section, 16.142.060.
- **Response:** Existing large trees and utilities are not within locations compatible for preservation with the use of curb-tight sidewalks; therefore, these sidewalks are not planned to be curb-tight or meandering. Plantings have been planned for the planter strip where practicable. These criteria are met.
  - 4. Adjustments to Commercial and Industrial development Standards. Adjustments to Commercial or Industrial Development standards of up to 20 feet additional building height are permitted provided;
    - a. At least 50% of a Significant Tree stand's of canopy within a development site (and not also within the sensitive lands or areas that areas dedicated to the City) is preserved;
    - b. The project arborist or qualified professional certifies the preservation is such that the connectivity and viability of the remaining significant tree stand is maximized;
    - c. Applicable buffering and screening requirements are met;
    - d. Any height adjustments comply with state building codes;
    - e. Significant tree stands are protected through an instrument or action subject to approval by the City Manager or the City manager's designee that demonstrates it will be permanently preserved and managed as such;
      - (1.) A conservation easement;
      - (2.) An open space tract;
      - (3.) A deed restriction; or
      - (4.) Through dedication and acceptance by the City.
- **<u>Response:</u>** Adjustments to industrial building height have not been planned. These criteria do not apply.



### G. Tree Protection During Development

The applicant shall prepare and submit a final Tree and Woodland Plan prior to issuance of any construction permits, illustrating how identified trees and woodlands will be retained, removed or protected as per the Notice of Decision. Such plan shall specify how trees and woodlands will be protected from damage or destruction by construction activities, including protective fencing, selective pruning and root treatments, excavation techniques, temporary drainage systems, and like methods. At a minimum, trees to be protected shall have the area within the drip line of the tree protected from grading, stockpiling, and all other construction related activity unless specifically reviewed and recommended by a certified arborist or other qualified professional. Any work within the dripline of the tree shall be supervised by the project arborist or other qualified professional onsite during construction.

**Response:** Trees that have been planned for preservation are illustrated on the Preliminary Tree Preservation and Removal Table (Exhibit A). This plan specifies how trees and woodlands, where applicable, will be protected from damage by construction activities by methods such as those listed. These criteria are met.

16.142.090 - Recommended Street Trees

- A. Recommended Street Trees:
  - [Section table skipped for brevity.]
- B. Recommended Street Trees under Power Lines: [Section text skipped for brevity.]
- C. Prohibited Street Trees:
  - Acer, Silver Maple
  - Acer, Boxelder
  - Ailanthus, gladulosa Tree-of-heaven
  - Betula; common varieties of Birch
  - Ulmus; common varieties of Elm
  - Morus; common varieties of Mulberry
  - Salix; common varieties of willow
  - Coniferous Evergreen (Fir, Pine, Cedar, etc.)
  - Populus; common varieties of poplar, cottonwood and aspen
  - Female Ginkgo
- D. Alternative Street Trees: Trees that are similar to those on the recommended street tree list can be proposed provided that they are non-fruit bearing, non-invasive and not listed on the prohibited street tree list. A letter from a certified arborist must be submitted, explaining why the tree is an equivalent or better street tree than the recommended street trees that are identified in this section.
- **<u>Response:</u>** The required street trees have been selected from the Recommended Street Trees list and do not include varieties from the Prohibited Street Trees list as demonstrated on the Preliminary Landscape Plan (Exhibit A). Existing trees adjacent to SW Oregon Street



planned for removal are Fir trees, which are not appropriate street trees. These standards are met.

### Chapter 16.144 - WETLAND, HABITAT AND NATURAL AREAS

### 16.144.010 - Generally

Unless otherwise permitted, residential, commercial, industrial, and institutional uses in the City shall comply with the following wetland, habitat and natural area standards if applicable to the site as identified on the City's Wetland Inventory, the Comprehensive Plan Natural Resource Inventory, the Regionally Significant Fish and Wildlife Habitat Area map adopted by Metro, and by reference into this Code and the Comprehensive Plan. Where the applicability of a standard overlaps, the more stringent regulation shall apply.

**Response:** Metro Regional Services' (Metro's) Regionally Significant Fish and Wildlife Habitat Map shows this property as having Class I Riparian Habitat and Class A Upland Habitat.

### 16.144.020 - Standards

- A. The applicant shall identify and describe the significance and functional value of wetlands on the site and protect those wetlands from adverse effects of the development. A facility complies with this standard if it complies with the criteria of subsections A.1.a and A.1.b, below:
  - 1. The facility will not reduce the area of wetlands on the site, and development will be separated from such wetlands by an area determined by the Clean Water Services Design and Construction Standards R&O 00-7 or its replacement provided Section 16.140.090 does not require more than the requested setback.
- Response:Wetlands were identified on the project site, located at the southwest corner adjacent to<br/>the SW Tonquin Road/SW Oregon Street intersection. The functional value of these areas<br/>was determined, and a plan created to address the protection of these areas. The<br/>Wetland Delineation Report (Exhibit E) outlines the two wetland areas—Wetland A,<br/>which is nearest the project site on the east side of SW Tonquin Road, and Wetland B,<br/>which is located on the bifurcated portion of the site west of SW Tonquin Road, and which<br/>extends along the Rock Creek corridor. Wetland A is planned for removal, while Wetland<br/>B is planned to remain. The project plans to enhance vegetative corridors and purchase<br/>mitigation bank credits for permanent impacts to the wetlands.

The planned site improvements are planned to comply with the prescribed Clean Water Services Design and Construction Standards. Additional details can be found in the project Wetland Delineation Report (Exhibit E) and CWS Service Provider Letter (Exhibit J). These criteria are met.

- a. A natural condition such as topography, soil, vegetation or other feature isolates the area of development from the wetland.
- **Response:**The project site features topography and vegetation that isolate the site improvements<br/>from Wetland B. Plans have been created to reflect and preserve this separation.<br/>Additional details can be found in the project Wetland Delineation Report (Exhibit E). This<br/>criterion is met.



- Impact mitigation measures will be designed, implemented, and monitored to provide effective protection against harm to the wetland from sedimentation, erosion, loss of surface or ground water supply, or physical trespass.
- **<u>Response:</u>** The project has been designed to provide the wetland protection from sedimentation, erosion, loss of surface or ground water supply, and physical trespass, including implementation and monitoring. Additional details can be found in the project Wetland Delineation Report (Exhibit E) and CWS Service Provider Letter (Exhibit J). These criteria are met.

h.

- c. A lesser setback complies with federal and state permits, or standards that will apply to state and federal permits, if required.
- **Response:** A lesser setback has not been requested. This criterion does not apply.
  - 2. If existing wetlands are proposed to be eliminated by the facility, the applicant shall demonstrate that the project can, and will develop or enhance an area of wetland on the site or in the same drainage basin that is at least equal to the area and functional value of wetlands eliminated.
- Response:Existing wetlands are planned to be replaced by a stormwater facility. Conditions have<br/>been issued by CWS (Exhibit J) for the stormwater facility and work within wetlands.<br/>Mitigation for the loss of Wetland A is planned through the purchase of ±0.26 acres of<br/>credits from the Tualatin Valley Environmental Bank. This criterion is met.
  - B. The applicant shall provide appropriate plans and text that identify and describe the significance and functional value of natural features on the site (if identified in the Community Development Plan, Part 2) and protect those features from impacts of the development or mitigate adverse effects that will occur. A facility complies with this standard if:
- **<u>Response:</u>** The appropriate plans and text have been provided, and additional details can be found in the attached Wetland Delineation Report (Exhibit E) and CWS Service Provider Letter (Exhibit J). These documents identify and describe the significance and functional value of the site's natural features and describe the measures for protection of the resource and the prevention of adverse effects. These criteria are met.
  - 1. The site does not contain an endangered or threatened plant or animal species or a critical habitat for such species identified by Federal or State government (and does not contain significant natural features identified in the Community Development Plan, Part 2, Natural Resources and Recreation Plan).
- **<u>Response:</u>** Endangered or threatened plant or animal species or their critical habitats were not identified within the site's natural resource areas. These criteria do not apply.
  - 2. The facility will comply with applicable requirements of the zone.



- **<u>Response:</u>** The planned improvements comply with all applicable requirements of the zone; therefore, this criterion is met.
  - 3. The applicant will excavate and store topsoil separate from subsurface soil, and shall replace the topsoil over disturbed areas of the site not covered by buildings or pavement or provide other appropriate medium for re-vegetation of those areas, such as yard debris compost.

### **<u>Response:</u>** Where applicable, these standards are planned to be met.

- 4. The applicant will retain significant vegetation in areas that will not be covered by buildings or pavement or disturbed by excavation for the facility; will replant areas disturbed by the development and not covered by buildings or pavement with native species vegetation unless other vegetation is needed to buffer the facility; will protect disturbed areas and adjoining habitat from potential erosion until replanted vegetation is established; and will provide a plan or plans identifying each area and its proposed use.
- **Response:** Where possible, significant vegetation has been planned to be retained. These areas are largely within the natural areas at the southwestern bifurcated portion of the site. Other areas of the site are planned to be revegetated as needed with native species. The project plans to protect disturbed areas and their adjoining habitats from potential erosion until vegetation is established. Plans have been provided identifying each area, the preservation of the resources on-site, and the plannings planned. These criteria are met.
  - 5. Development associated with the facility will be set back from the edge of a significant natural area by an area determined by the Clean Water Services Design and Construction standards R&O 00-7 or its replacement, provided Section 16.140.090A does not require more than the requested setback. Lack of adverse effect can be demonstrated by showing the same sort of evidence as in subsection A.1 above.
- **<u>Response:</u>** Site improvements are not expected to reduce the area of wetlands planned to remain and are planned to comply with the prescribed Clean Water Services Design and Construction Standards. Additional details can be found in the project Wetland Delineation Report (Exhibit E) and the CWS Service Provider Letter (Exhibit J). These criteria are met.
  - C. When the Regionally Significant Fish and Wildlife Habitat map indicates there are resources on the site or within 50 feet of the site, the applicant shall provide plans that show the location of resources on the property. If resources are determined to be located on the property, the plans shall show the value of environmentally sensitive areas using the methodologies described in Sections 1 and 2 below.

The Metro Regionally Significant Fish and Wildlife Habitat map shall be the basis for determining the location and value of environmentally sensitive habitat areas. In order to specify the exact locations on site, the following methodology shall be used to determine the appropriate boundaries and habitat values:



- 1. Verifying boundaries of inventoried riparian habitat. Locating habitat and determining its riparian habitat class is a four-step process:
  - a. Located the Water Feature that is the basis for identifying riparian habitat.
    - 1. Locate the top of bank of all streams, rivers, and open water within 200 feet of the property.
    - 2. Locate all flood areas within 100 feet of the property.
    - 3. Locate all wetlands within 150 feet of the property based on the Local Wetland Inventory map and on the Metro 2002 Wetland Inventory map (available from the Metro Data Resource Center, 600 NE Grand Ave., Portland, OR 97232). Identified wetlands shall be further delineated consistent with methods currently accepted by the Oregon Division of State Lands and the US Army Corps of Engineers.
  - b.
- Identify the vegetative cover status of all areas on the property that are within 200 feet of the top of bank of streams, rivers, and open water, are wetlands or are within 150 feet of wetlands, and are flood areas or are within 100 feet of flood areas. Vegetative cover status shall be as identified on the Metro Vegetative Cover map. In the event of a discrepancy between the Metro Vegetative Cover map and the existing site conditions, document the actual vegetative cover based on the following definitions along with a 2002 aerial photograph of the property;
  - Low structure vegetation or open soils Areas that are part of a contiguous area one acre or larger of grass, meadow, croplands, or areas of open soils located within 300 feet of a surface stream (low structure vegetation areas may include areas of shrub vegetation less than one acre in size if they are contiguous with areas of grass, meadow, crop-lands, orchards, Christmas tree farms, holly farms, or areas of open soils located within 300 feet of a surface stream and together form an area of one acre in size or larger).
  - 2. Woody vegetation Areas that are part of a contiguous area one acre or larger of shrub or open or scattered forest canopy (less than 60% crown-closure) located within 300 feet of a surface stream.
  - 3. Forest canopy Areas that are part of a contiguous grove of trees of one acre or





larger in area with approximately 60% or greater crown closure, irrespective of whether the entire grove is within 200 feet of the relevant water feature.

- c. Determine whether the degree that the land slopes upward from all streams, rivers, and open water within 200 feet of the property is greater than or less than 25% (using the Clean Water Services Vegetated Corridor methodology); and
- d. Identify the riparian habitat classes applicable to all areas on the property using Table 8-1 below:

Distance	Development/Vegetation Status				
in feet	1 , 0				
from					
Water					
Feature					
	Developed	Low	Woody	Forest	
	areas not	structure	vegetation	Canopy	
	providing	vegetation	(shrub	(closed	
	vegetative	or open	and	to open	
	cover	soils	scatted	forest	
			forest	canopy)	
			canopy)		
	Su	irface Stream	s		
0-50	Class II	Class I	Class I	Class I	
50-100		Class II	Class I	Class I	
100-150		Class II if	Class II if	Class II	
		slope	slope		
		>25%	>25%		
150-200		Class II if	Class II if	Class II	
		slope	slope	if slope	
		>25%	>25%	>25%	
Wetlands (Wetland feature itself is a Class I Riparian					
Area)					
0-100			Class I	Class I	
100-150				Class II	
Flood Areas (undeveloped portion of a flood area is a					
Class I Riparian area)					
0-100			Class II	Class II	

2.

Verifying boundaries of inventoried upland habitat. Upland habitat was identified based on the existence of contiguous patches of forest canopy, with limited canopy openings. The "forest canopy" designation is made based on analysis of aerial photographs, as part of determining the vegetative cover status of land within the region. Upland habitat shall be as identified on the HCA map. The perimeter of an area delineated as "forest canopy" on the Metro Vegetative Cover map may be adjusted to more precisely indicate the drip line of the trees within the canopied area.

**<u>Response:</u>** The required boundaries were identified for all water features on the property. Further information is available within the Preliminary Plans (Exhibit A) and the Wetland Delineation Report (Exhibit E).



### 16.144.030 - Exceptions to Standards

In order to protect environmentally sensitive areas that are not also governed by floodplain, wetland and Clean Water Services vegetated corridor regulations, the City allows flexibility of the specific standards in exchange for the specified amount of protection inventoried environmentally sensitive areas as defined in this code.

A. Process

The flexibility of standards is only applicable when reviewed and approved as part of a land use application and shall require no additional fee or permit provided criteria is addressed. In the absence of a land use application, review may be processed as a Type 1 administrative interpretation.

- B. Standards modified
  - 1. Lot size Not withstanding density transfers permitted through Chapter 16.40, when a development contains inventoried regionally significant fish and wildlife habitats as defined in Section 16.144.020 above, lot sizes may be reduced up to ten percent (10%) below the minimum lot size of the zone when an equal amount of inventoried resource above and beyond that already required to be protected is held in a public or private open space tract or otherwise protected from further development.
  - 2. Setbacks For residential zones, the setback may be reduced up to thirty percent (30%) for all setbacks except the garage setback provided the following criteria are satisfied:
    - a. The setback reduction must result in an equal or greater amount of significant fish and/or wildlife habitat protection. Protection shall be guaranteed with deed restrictions or public or private tracts.
    - b. In no case shall the setback reduction supersede building code and/or Tualatin Valley Fire and Rescue separation requirements.
    - c. In no case shall the setback be reduced to less than five feet unless otherwise provided for by the underlying zone.
  - 3. Density per Section 16.10.020 (Net Buildable Acre definition), properties with environmentally sensitive areas on site may opt to exclude the environmentally sensitive areas from the minimum density requirements provided the sensitive areas are protected via tract or restrictive easement. A proposal to remove said area from the density calculation must include: a delineation of the resource in accordance with Section 16.144.020C, the acreage being protected, and the net reduction below the normally required minimum for accurate reporting to Metro.
- **<u>Response:</u>** These standards do not apply to the industrial development. The zone is industrial and has no minimum lot size, no residential setbacks, and no residential densities. Therefore, these standards cannot be adjusted, and these criteria do not apply.
  - 4. Parking Per Section 16.94.020.B.6, 10-25% of the required parking spaces may be reduced in order to protect



inventoried regionally significant fish and wildlife habitat areas, provided these resources are protected via deed restrictions or held in public or private tracts.

- 5. Landscaping Per Section 16.92.030.B.6, exceptions may be granted to the landscaping standards in certain circumstances as outlined in that section.
- **<u>Response:</u>** Adjustments to these standards have not been sought with this application for design review.

### Chapter 16.146 - NOISE

### 16.146.010 - Generally

All otherwise permitted commercial, industrial, and institutional uses in the City shall comply with the noise standards contained in OAR 340-35-035. The City may require proof of compliance with OAR 340-35-035 in the form of copies of all applicable State permits or certification by a professional acoustical engineer that the proposed uses will not cause noise in excess of State standards.

### 16.146.020 - Noise Sensitive Uses

When proposed commercial and industrial uses do not adjoin land exclusively in commercial or industrial zones, or when said uses adjoin special care, institutional, or parks and recreational facilities, or other uses that are, in the City's determination, sensitive to noise impacts, then:

- A. The applicant shall submit to the City a noise level study prepared by a professional acoustical engineer. Said study shall define noise levels at the boundaries of the site in all directions.
- B. The applicant shall show that the use will not exceed the noise standards contained in OAR 340-35-035, based on accepted noise modeling procedures and worst case assumptions when all noise sources on the site are operating simultaneously.
- C. If the use exceeds applicable noise standards as per subsection B of this Section, then the applicant shall submit a noise mitigation program prepared by a professional acoustical engineer that shows how and when the use will come into compliance with said standards.

### 16.146.030 - Exceptions

This Chapter does not apply to noise making devices which are maintained and utilized solely as warning or emergency signals, or to noise caused by automobiles, trucks, trains, aircraft, and other similar vehicles when said vehicles are properly maintained and operated and are using properly designated rights-of-way, travel ways, flight paths or other routes. This Chapter also does not apply to noise produced by humans or animals. Nothing in this Chapter shall preclude the City from abating any noise problem as per applicable City nuisance and public safety ordinances.

**<u>Response:</u>** The subject site is surrounded by other land zoned industrial (either Employment Industrial, Light Industrial, or General Industrial) and does not directly adjoin residentially zoned lands. The project is buffered from residences and residential districts by the Rock Creek corridor. Noise levels expected would be similar to nearby industrial uses. Flex industrial spaces do not typically generate noise beyond that associated with traffic entering and leaving the site, along with other activities typical of an urban area. The



proposed use will be within the required standards, and there are no planned adverse impacts. These criteria are met.

### Chapter 16.148 - VIBRATIONS

16.148.010 - Generally

All otherwise permitted commercial, industrial, and institutional uses shall not cause discernible vibrations that exceed a peak of 0.002 gravity at the property line of the originating use, except for vibrations that last five (5) minutes or less per day, based on a certification by a professional engineer.

### 16.148.020 - Exceptions

This Chapter does not apply to vibration caused by construction activities including vehicles accessing construction sites, or to vibrations caused by automobiles, trucks, trains, aircraft, and other similar vehicles when said vehicles are properly maintained and operated and are using properly designated rights-of-way, travelways, flight paths or other routes. Nothing in this Chapter shall preclude the City from abating any vibration problem as per applicable City nuisance and public safety ordinances.

**<u>Response:</u>** Vibration levels expected would be similar to nearby industrial uses. Elevated levels of vibration, beyond what is expected in an urban area, are not anticipated. Therefore, the proposed use will be within required standards, and there will be no adverse impacts. These criteria are met.

### Chapter 16.150 - AIR QUALITY

### 16.150.010 - Generally

All otherwise permitted commercial, industrial, and institutional uses shall comply with applicable State air quality rules and statutes:

- A. All such uses shall comply with standards for dust emissions as per OAR 340-21-060.
- B. Incinerators, if otherwise permitted by Section 16.140.020, shall comply with the standards set forth in OAR 340-25-850 through 340-25-905.
- C. Uses for which a State Air Contaminant Discharge Permit is required as per OAR 340-20-140 through 340-20-160 shall comply with the standards of OAR 340-220 through 340-20-276.

### 16.150.020 - Proof of Compliance

Proof of compliance with air quality standards as per Section 16.150.010 shall be in the form of copies of all applicable State permits, or if permits have not been issued, submission by the applicant, and acceptance by the City, of a report certified by a professional engineer indicating that the proposed use will comply with State air quality standards. Depending on the nature and size of the use proposed, the applicant may, in the City's determination, be required to submit to the City a report or reports substantially identical to that required for issuance of State Air Contaminant Discharge Permits.

### 16.150.030 - Exceptions

Nothing in this Chapter shall preclude the City from abating any air quality problem as per applicable City nuisance and public safety ordinances.

**Response:** Air quality impacts are anticipated to be similar to nearby industrial uses. Odorous or unusual emissions, beyond what is expected in an urban area, are not anticipated. The



proposed use will be within required standards, and there will be no adverse impacts. These criteria are met.

### Chapter 16.152 - ODORS

### 16.152.010 - Generally

All otherwise permitted commercial, industrial, and institutional uses shall incorporate the best practicable design and operating measures so that odors produced by the use are not discernible at any point beyond the boundaries of the development site.

### 16.152.020 - Standards

The applicant shall submit a narrative explanation of the source, type and frequency of the odorous emissions produced by the proposed commercial, industrial, or institutional use. In evaluating the potential for adverse impacts from odors, the City shall consider the density and characteristics of surrounding populations and uses, the duration of any odorous emissions, and other relevant factors.

### 16.152.030 - Exceptions

Nothing in this Chapter shall preclude the City from abating any odor problem as per applicable City nuisance and public safety ordinances.

**<u>Response:</u>** Odor impacts would be expected similar to nearby commercial or industrial uses. Odorous or unusual emissions, beyond what is expected in an urban area, are not anticipated. The proposed use will be within required standards, and there will be no adverse impacts. These criteria are met.

### Chapter 16.154 - HEAT AND GLARE

### 16.154.010 - Generally

Except for exterior lighting, all otherwise permitted commercial, industrial, and institutional uses shall conduct any operations producing excessive heat or glare entirely within enclosed buildings. Exterior lighting shall be directed away from adjoining properties, and the use shall not cause such glare or lights to shine off site in excess of one-half (0.5) foot candle when adjoining properties are zoned for residential uses.

### 16.154.020 - Exceptions

Nothing in this Chapter shall preclude the City from abating any heat and glare problem as per applicable City nuisance and public safety ordinances.

**<u>Response:</u>** The subject site does not adjoin any properties designated for residential uses, as those are located across the SW Tonquin Road right-of-way. Exterior lighting is planned to be directed away from adjoining properties. These applicable criteria are met.

### Chapter 16.156 - ENERGY CONSERVATION

### 16.156.010 - Purpose

This Chapter and applicable portions of Chapter 5 of the Community Development Plan provide for natural heating and cooling opportunities in new development. The requirements of this Chapter shall not result in development exceeding allowable densities or lot coverage, or the destruction of existing trees.



16.156.020 - Standards

- A. Building Orientation The maximum number of buildings feasible shall receive sunlight sufficient for using solar energy systems for space, water or industrial process heating or cooling. Buildings and vegetation shall be sited with respect to each other and the topography of the site so that unobstructed sunlight reaches the south wall of the greatest possible number of buildings between the hours of 9:00 AM and 3:00 PM, Pacific Standard Time on December 21st.
- B. Wind The cooling effects of prevailing summer breezes and shading vegetation shall be accounted for in site design. The extent solar access to adjacent sites is not impaired vegetation shall be used to moderate prevailing winter wind on the site.
- **<u>Response:</u>** The proposed buildings are oriented in a north-south direction, generally consistent with the orientation of the lot. The buildings are set back from the southern property boundary and each other as needed, while still allowing truck and fire safety access circulation around the buildings. Therefore, the buildings are generally positioned to allow unobstructed sunlight access to their southern walls.

The site is not planned to contain any existing trees that may shade these future buildings or moderate winter winds. However, the Preliminary Landscape Plan shows that trees will be planted and, at maturity, will provide shade and a buffer to winter winds on the site. These criteria are met.

### IV. Conclusion

The required findings have been made, and this narrative and accompanying documentation demonstrate the application is consistent with the applicable provisions of the City of Sherwood Zoning and Community Development Code. The evidence in the record is substantial and supports approval of the application. Therefore, the Applicant respectfully requests the City approve this site plan review and variance application.





### Exhibit A: Preliminary Plans

### **OREGON STREET BUSINESS PARK**



### APPLICATION **DESIGN REVIEW PRELIMINARY PLANS**



P01 COVER SHEET WITH VICINITY AND SITE MAPS P02 EXISTING CONDITIONS PLAN P03 EXISTING CONDITIONS PLAN P04 EXISTING CONDITIONS PLAN P05 PRELIMINARY SITE PLAN P06 PRELIMINARY FRONTAGE IMPROVEMENTS P07 PUBLIC STREET CROSS-SECTIONS PO8 PRELIMINARY GRADING AND EROSION CONTROL PLAN P09 PRELIMINARY STORM DRAINAGE PLAN P10 PRELIMINARY SANITARY AND WATER PLAN P11 PRELIMINARY CIRCULATION PLAN P12 PRELIMINARY TRUCK TURNING MOVEMENTS PLAN P13 PRELIMINARY LANDSCAPE PLAN P14 PRELIMINARY DEMOLITION PLAN P15 PRELIMINARY TREE PRESERVATION AND REMOVAL PLAN P16 PRELIMINARY TREE PRESERVATION AND REMOVAL PLAN P17 PRELIMINARY TREE PRESERVATION AND REMOVAL TABLE P18 PRELIMINARY TREE PRESERVATION AND REMOVAL TABLE P19 PRELIMINARY SITE LIGHTING PLAN

### LAND USE PLANNING / LANDSCAPE ARCHITECTURE **CIVIL ENGINEERING / SURVEYING FIRM** AKS ENGINEERING & FORESTRY, LLC

CONTACT: JOHN CHRISTIANSEN, PE 12965 SW HERMAN ROAD, SUITE 100 TUALATIN, OR 97062 PH: 503-563-6151 FAX: 503-563-6152

- AT THE INTERSECTION OF SW OREGON ST AND SW TONQUIN RD.
- TAX LOT 500 WASHINGTON COUNTY ASSESSOR'S MAP 2S 1W 28C LOCATED IN THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST, WILLAMETTE MERIDIAN, WASHINGTON COUNTY, OREGON.

TOTAL SITE AREA: ±9.53 AC

- EXISTING GRAVEL PARKING LOT, BUILDINGS AND FIELDS.
- NEW INDUSTRIAL BUILDINGS, PARKING LOT AND STORMWATER FACILITY

NAVD 88



### MAPS SITE PARK AND S S ш **S** S **WITH** шα ШО SHEET Υ SO GON COVER ORE CHRIS RENEWAL DATE: 12/31/23 JOB NUMBER: 7971 05/31/2022 DATE: BDL DESIGNED BY: BDL DRAWN BY:

**P01** 

CHECKED BY:

JPC



CURVE TABLE				
CURVE RADIUS DELTA LENGTH CHORD				CHORD
C3	1349.33'	5 <b>°</b> 31'00"	129.92'	N44°01'53"E 129.87'

- CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.

**P02** 





### **ESS PARK** PLAN BUSIN CONDITIONS OREGON STREET SHERWOOD, OR EXISTING

REGISTERED PROFESSIONAL LAND SURVEYOR			
<b>REVIEW COPY</b>			
OREGON MARCH 14, 2017 BENJAMIN R HUFF 84738PLS			
RENEWS: 6/30/21			
JOB NUMBER:	7971		
DATE: 08/13/2020			
DESIGNED BY: AK			
DRAWN BY:	BRH		
CHECKED BY:	BRH		

**P03** 



TREE TABLE				
TREE NUMBER	TYPE	DBH (IN.)		
10936	DECIDUOUS	15		
10944	DECIDUOUS	15		
10949	DECIDUOUS	16		
10955	DECIDUOUS	12		
10964	DECIDUOUS	17		
10967	DECIDUOUS	15		
11059	DECIDUOUS	16		
11060	DECIDUOUS	10		
11061	DECIDUOUS	15		
11122	CONIFEROUS	15		
11123	CONIFEROUS	16		
11124	CONIFEROUS	16		
11125	CONIFEROUS	15		
11126	CONIFEROUS	18		
11127	CONIFEROUS	15		
11128	CONIFEROUS	16		
11129	CONIFEROUS	15		
11130	CONIFEROUS	8		
11131	CONIFEROUS	14		
11132	CONIFEROUS	19		
11137	CONIFEROUS	68		
11138	DECIDUOUS	14		
11139	DECIDUOUS	53		
11181	CONIFEROUS	10		
11182	CONIFEROUS	8		
11183	CONIFEROUS	9		
11188	DECIDUOUS	7		
11191	CONIFEROUS	10,11		
11192	CONIFEROUS	10		
11196	CONIFEROUS	7		
11198	CONIFEROUS	6		
11305	DECIDUOUS	6		
11414	CONIFEROUS	10		
11415	CONIFEROUS	18		
11416	CONIFEROUS	14		
11417	CONIFEROUS	15		
11418	CONIFEROUS	12		
11419	CONIFEROUS	13		
11420	CONIFEROUS	19		
11421	CONIFEROUS	11		
11422	CONIFEROUS	18		
11471	CONIFEROUS	43		
		-		

TREE TABLE				
TREE NUMBER	TYPE	DBH (IN.)		
11803	DECIDUOUS	6,6,7,8		
11804	DECIDUOUS	6,8		
11949	CONIFEROUS	9		
11977	CONIFEROUS	43		
11978	CONIFEROUS	47		
11979	CONIFEROUS	27		
12033	CONIFEROUS	47		
12038	CONIFEROUS	32		
12047	DECIDUOUS	33		
12048	DECIDUOUS	38		
12049	DECIDUOUS	9		
12050	DECIDUOUS	9		
12051	CONIFEROUS	36		
12052	DECIDUOUS	28		
12053	DECIDUOUS	31		
12054	DECIDUOUS	19		
12055	DECIDUOUS	13		
12056	DECIDUOUS	30		
12057	DECIDUOUS	16		
12058	DECIDUOUS	15		
12059	DECIDUOUS	29		
12060	DECIDUOUS	11		
12061	DECIDUOUS	7		
12063	CONIFEROUS	71		
12064	DECIDUOUS	10		
12065	DECIDUOUS	9		
12066	DECIDUOUS	8		
12067	DECIDUOUS	28		
12068	DECIDUOUS	12		
12069	DECIDUOUS	32		
12070	DECIDUOUS	8		
12071	DECIDUOUS	21		
12073	CONIFEROUS	32		
12074	CONIFEROUS	32		
12075	DECIDUOUS	7		
12076	DECIDUOUS	8		
12078	DECIDUOUS	18		
12079	DECIDUOUS	12		
12082	DECIDUOUS	56		
12084	DECIDUOUS	25		
25550	CONIFEROUS	9		
25551	DECIDUOUS	15		

TREE TABLE			
TREE NUMBER	TYPE	DBH (IN.)	
25552	CONIFEROUS	8	
113329	CONIFEROUS	17	
113330	CONIFEROUS	12	
113331	CONIFEROUS	14	
113332	CONIFEROUS	14	
113333	CONIFEROUS	16	
113334	CONIFEROUS	17	
113335	CONIFEROUS	15	
113336	CONIFEROUS	16	
113337	CONIFEROUS	20	
113338	CONIFEROUS	10	
113339	CONIFEROUS	18	
113340	CONIFEROUS	15	
113341	CONIFEROUS	18	
113342	CONIFEROUS	8	
113343	CONIFEROUS	15	
113354	CONIFEROUS	70	
113404	CONIFEROUS	39	
113405	CONIFEROUS	24	
113406	CONIFEROUS	27	
113407	CONIFEROUS	24	
113408	DECIDUOUS	24	
113454	DECIDUOUS	11	
113461	CONIFEROUS	23	
113464	CONIFEROUS	20	
113465	CONIFEROUS	27	
113469	CONIFEROUS	21	
113470	CONIFEROUS	16	
113471	CONIFEROUS	22	
113472	CONIFEROUS	20	
113474	CONIFEROUS	19	
113483	CONIFEROUS	28	
113485	CONIFEROUS	25	
113490	CONIFEROUS	25	
113491	DECIDUOUS	7	
113499	CONIFEROUS	18,22,28	
113515	CONIFEROUS	34	
113517	CONIFEROUS	53	
113518	CONIFEROUS	37	
113519	CONIFEROUS	34	
113521	CONIFEROUS	37	









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SITE

PRELIMINARY









NOTE 1. SW LAURELWOOD WAY TO BE CONSTRUCTED UNDER SEPARATE PERMIT.

- ∉ KEYED NOTES
- 1. NEW PORTLAND CEMENT CONCRETE (PCC) SIDEWALK.
- 2. NEW CURB AND GUTTER.
- 3. NEW COMMERCIAL DRIVEWAY.

LEGEND

CONCRETE SIDEWALK





0 12 30 60 ORIGINAL PAGE SIZE: 22" x 34"

**ESS PARK** BUSIN OREGON STREET SHERWOOD, OR

FRONTAGE IMPROVEMENTS

PRELIMINARY



**P06** 







3 LANE TYPICAL SECTION

SW TONQUIN ROAD TYPICAL SECTION





# OREGON STREET BUSINESS PARK SHERWOOD, OR



**PUBLIC STREET CROSS-SECTIONS** 





## PARK **ESS** BUSIN OREGON STREET SHERWOOD, OR



**P08** 

## AN Ц AND EROSION CONTROL GRADING PRELIMINARY








# OREGON STREET BUSINESS PARK SHERWOOD, OR



**PRELIMINARY STORM DRAINAGE PLAN** 



**P09** 





## **ESS PARK** NISN Ω OREGON STREET SHERWOOD, OR

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PRELIMINARY









## OREGON STREET BUSINESS PARK SHERWOOD, OR

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CIRCUL

PRELIMINARY











AN

**TURNING MOVEMENTS PL** 

TRUCK

PRELIMINARY









WB—62 — Interstate Semi—Trailer Overall Length Overall Width Overall Body Height Min Body Ground Clearance Max Track Width Lock—to—lock time Max Steering Angle (Virtual)





PARKING LANDSCAPE DATA: LANDSCAPE AREA: ±134,881 SF PARKING SPACES: 185 PARKING LOT TREES REQUIRED: 1 LARGE TREE PER 4 PARKING SPACES; 1 MEDIUM TREE PER 3 PARKING SPACES; 1 SMALL TREES PER 2 PARKING SPACES PARKING LOT TREES PROPOSED: 27 SMALL (54 SPACES); 33 LARGE (132 SPACES) TOTAL PARKING LOT SHRUBS REQUIRED: 326 TOTAL PARKING LOT SHRUBS PROPOSED: 351 SHRUBS

### TREE CANOPY REQUIREMENT:

SITE AREA: ±347,519 SF 30% TREE CANOPY REQUIREMENT: 104,256 SF

STANDARD HAS BEEN MET BY PROVIDING 180,082 SF TREE CANOPY CALCULATED AS FOLLOWS:

PROPOSED TREES			
(27) ACER CIRCINATUM	= (3.14* 25x25)	= 1,962.5 SF X 27	= 52,988 SF
(23) FRAXINUS PENNSYLVANICA 'MARSHALL'S SEEDLESS'	= (3.14* 20X20)	= 1,256 SF X 23	= 28,888 SF
(8) PINUS NIGRA	= (3.14* 20x20)	= 1,256 SF X 8	= 10,048 SF
(9) THUJA PLICATA	= (3.14* 35x35)	= 3,846.5 SF X 9	= 34,619 SF
(22) ZELKOVA SERRATA 'GREEN VASE'	= (3.14* 25x25)	= 1,962.5 SF X 22	= 43,175 SF
			TOTAL 169,718 SF
PRESERVED ONSITE TREES			
(1) PSEUDOTSUGA MENZIESII	= (3.14* 20X20)	= 1,256 SF X 2 X 1	= 2,512 SF
(1) JUGLANS NIGRA	= (3.14* 25X25)	= 1,963 SF X 2 X 1	= 3,926 SF
(1) CASTANEA DENTATA	= (3.14* 25X25)	= 1,963 SF X 2 X1	= 3,926 SF
			TOTAL 10,364 SF

ISANTI RED TWIG DOGWOOD (TYP IRRIGATION POINT OF CONNECTION (PO TAX LOT 501 TAX MAP 2S 1 28C KINNIKINNICK (TYP) (+8-8 STORMWATER Facility Planted To CWS  $\stackrel{\scriptstyle{\scriptstyle \succ}}{}$  native e/c seed mix (typ) STANDARDS FENCE, REFER TO -ENGINEERING PLANS HE TAX LOT 500 SZ TAX MAP 2S 1 28C tomo - OHW B - STM — TAX LOT 400 SAN \_\_\_\_\_ - ENCLOSURE TAX MAP 2S 1 28C └─ ACCESS ROAD TAX LOT 100 TAX MAP 2S 1 33 TAX LOT 2500 TAX MAP 2S 1 33

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MOUNTAIN FIRE JAPANESE PIERIS (



<u>EES</u>	QTY	BOTANICAL NAME	COMMON NAME	SIZE/CONTAINER	SPACING
<b>.</b>	27	ACER CIRCINATUM SMALL TREE (CANOPY FACTOR 10)	VINE MAPLE	2" CAL B&B (MIN 6' HT)	as shown
)	23	FRAXINUS PENNSYLVANICA 'MARSHALL'S SEEDLESS' LARGE TREE (CANOPY FACTOR 200)	MARSHALL'S SEEDLESS GREEN ASH	2" CAL B&B (MIN 6' HT)	AS SHOWN
	8	PINUS NIGRA LARGE TREE (CANOPY FACTOR 100)	AUSTRIAN PINE	6' HT. B&B	AS SHOWN
	9	THUJA PLICATA LARGE TREE (CANOPY FACTOR 105)	WESTERN RED CEDAR	6' HT. B&B	AS SHOWN
·	22	ZELKOVA SERRATA 'GREEN VASE' LARGE TREE (CANOPY FACTOR 192)	GREEN VASE SAWLEAF ZELKOVA	2" CAL B&B (MIN 6' HT)	AS SHOWN
<u>REET TREES</u>	QTY	BOTANICAL NAME	COMMON NAME	SIZE/CONTAINER	SPACING
$\overline{\bigcirc}$	31	ACER GRISEUM SMALL TREE (CANOPY FACTOR 10)	PAPERBARK MAPLE	2" CAL B&B (MIN 6' HT)	AS SHOWN
F	41	TILIA AMERICANA LARGE TREE (CANOPY FACTOR 150)	AMERICAN LINDEN	2" CAL B&B (MIN 6' HT)	AS SHOWN
RUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE/CONTAINER	SPACING
Ø	140	CORNUS SERICEA 'ISANTI'	ISANTI RED TWIG DOGWOOD	3 GAL CONT.	48" o.c.
ø	173	MAHONIA AQUIFOLIUM 'COMPACTA'	COMPACT OREGON GRAPE	2 GAL CONT.	36" o.c.
Ø	208	PIERIS JAPONICA 'MOUNTAIN FIRE'	MOUNTAIN FIRE JAPANESE PIERIS	3 GAL CONT.	48" o.c.
O	162	VIBURNUM DAVIDII	DAVID VIBURNUM	2 GAL CONT.	36" o.c.
OUND COVERS	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	SIZE/CONTAINER	<u>SPACING</u>
++++ ++++ +++++ +++++ +++++ +++++ +++++ ++++	2,174	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	1 GAL CONT.	36" o.c.
[-]-] -]-]- -]-]- -]- -]- -]- -]- -]- -]	4,297	COTONEASTER DAMMERI 'LOWFAST'	LOWFAST BEARBERRY COTONEASTER	1 GAL CONT.	42" o.c.
	±30,358 SF	NATIVE E/C SEED MIX – SUNMARK SEEDS (OR APPRO MEADOW BARLEY 40%; CALIFORNIA BROME 35%; NATIV APPLY AT A RATE OF 1 LB. PER 1,000 SF OR AS REC	OVED EQUAL): /E RED FESCUE 20%; TUFTED HAIRGRAS COMMENDED BY SUPPLIER.	S 3%; SPIKE BENTGRASS 2%	6.
	1,254	RUBUS CALYCINOIDES	CREEPING BRAMBLE	1 GAL CONT.	36" o.c.
:	± 24,142 SF	STORMWATER FACILITY PLANTED TO CWS STANDARDS			

### **GENERAL LANDSCAPE NOTES**

- 1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PLANT QUANTITIES. IF DISCREPANCIES OCCUR, DESIGN INTENT PREVAILS OVER QUANTITIES LISTED.
- OREGON LANDSCAPE CONTRACTORS BOARD (OLCB).
- AND CENTERED ON THE TREE TRUNK ADJACENT TO PAVING.
- 5. DOUBLE STAKE ALL TREES. REFER TO CITY OF SHERWOOD STANDARD TREE PLANTING DETAIL.

- 8 BARK MULCH. TREES AND OTHER PLANTS SHALL BE SET TO ACCOMMODATE MULCH APPLICATION WITHOUT BURYING ROOT CROWNS.
- CONTRACTOR PRIOR TO INSTALLATION OF HARD SURFACING (SIDEWALKS, ROADWAYS, ETC.).

### PRELIMINARY PLANT SCHEDULE

2. PLANTING PLAN IS INTENDED TO SHOW DESIGN INTENT ONLY AND IS PRELIMINARY. PLANT SPECIES, SIZES, LOCATIONS, QUANTITIES, AND OTHER PLAN CHANGES MAY BE SUBSTITUTED OR REVISED PRIOR TO FINAL SUBMITTAL DUE TO SITE CONDITIONS AND PLANT AVAILABILITY WHERE ALLOWED BY SHERWOOD DESIGN STANDARDS.

3. ALL TREES SHALL CONFORM TO APPLICABLE CITY OF SHERWOOD DESIGN STANDARDS AND MEET THE REQUIREMENTS OF THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS FOR NURSERY STOCK (ANSI Z60.2) FOR GRADE NO. 1 OR BETTER. PLANT IN ACCORDANCE WITH 'BEST-PRACTICE' INDUSTRY STANDARDS ADOPTED BY THE

4. CONTRACTOR SHALL INSTALL ROOT BARRIER ADJACENT TO HARD SURFACE FOR TREES WITHIN 4' OF PAVING. ROOT BARRIER SHALL BE A MINIMUM OF 18" DEEP X 10' LONG

6. ALL TREES SHALL BE PLANTED A MINIMUM OF 3' O.C. FROM BACK OF PAVING. CONTRACTOR SHALL FIELD ADJUST IF NECESSARY TO AVOID CONFLICTS WITH UTILITIES, LIGHTS, VAULTS, BUILDING AND ROOF OVERHANGS, EXISTING VEGETATION AND TREE CANOPIES, ETC.

7. SOIL PREPARATION: ALL TREE, SHRUB, AND GROUNDCOVER AREAS SHALL HAVE A MINIMUM OF 12" OF CLEAN TOPSOIL, PLUS AN ADDITIONAL 24" OF NON-COMPACTED SUBSOIL AVAILABLE. EXISTING NATIVE SOIL OR STOCKPILED TOPSOIL STRIPPING MAY BE USED. TOPSOIL SHALL BE RICH DARK BROWN IN COLOR AND VOID OF ROOTS, PLANTS, WEED SEEDS, SOD, STONES, CLAY LUMPS, ALKALI SALTS, DEBRIS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. FINISH GRADE OF NEW PLANTING AREAS SHALL SEAMLESSLY MEET FINISH GRADE OF EXISTING LANDSCAPE AREAS TO REMAIN AND AS SHOWN ON GRADING PLANS. TOPSOIL SHALL BE PLACED AND WORKED IN FRIABLE (WORKABLE) CONDITION. BACKFILL ALL PLANTING HOLES WITH 1/3 ORGANIC MATERIALS, 1/3 TOPSOIL, AND 1/3 SANDY LOAM.

MULCH: APPLY 3" DEEP MEDIUM GRIND OR SHREDDED DARK HEMLOCK OR FIR MULCH AROUND ALL PLANTINGS. DO NOT COVER FOLIAGE OR ROOT CROWNS OF PLANTS WITH

9. IRRIGATION: LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING A PERMANENT, UNDERGROUND 'DESIGN-BUILD' IRRIGATION SYSTEM TO WATER ALL NEW PLANTING BED AREAS. COORDINATE POINT-OF-CONNECTION (POC), CITY APPROVED DOUBLE-CHECK VALVE ASSEMBLY, AND SLEEVING LOCATIONS WITH GENERAL



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JOB NUMBER:	7971
DATE:	05/31/2022
DESIGNED BY:	NKP
DRAWN BY:	NKP
CHECKED BY:	TEB

**P13** 



<u>NOTES</u> 1. CONTRACTOR TO COORDINATE THE REMOVAL OF ALL NECESSARY PRIVATE UTILITIES WITH THE APPROPRIATE UTILITY PROVIDERS. 2. CONTRACTOR TO ABANDON EXISTING WELLS, SEPTIC TANKS, AND DRAIN FIELDS FOUND DURING CONSTRUCTION PER APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS. 3. SEE TREE PRESERVATION AND REMOVAL PLAN FOR COMPLETE LIST OF TREES TO BE REMOVED. (#) <u>KEYED NOTES</u> 1. REMOVE EXISTING BUILDING. 2. REMOVE EXISTING FENCE. 3. REMOVE EXISTING CONCRETE/ASPHALT. 4. REMOVE EXISTING GRAVEL. 5. REMOVE EXISTING HOSE BIB. 6. REMOVE EXISTING WELL. 7. REMOVE EXISTING POWER POLE AND CONNECTED OVERHEAD WIRES. 8. REMOVE EXISTING GUY WIRE. 9. REMOVE EXISTING SATELLITE DISH. 10. REMOVE EXISTING SIGN. 11. REMOVE EXISTING GATE. 12. PRESERVE EXISTING STORM CURB INLET. 13. PRESERVE EXISTING COMM VAULT.

14. PRESERVE EXISTING POWER POLE. RELOCATE EXISTING GUY WIRES AS NECESSARY TO AVOID RIGHT OF WAY IMPROVEMENTS.







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LEGENI	
EXISTING GROUND CONTOUR (1 FT) EXISTING GROUND CONTOUR (5 FT) FINISHED GRADE CONTOUR (1 FT) FINISHED GRADE CONTOUR (5 FT)	149 150 149 150
EXISTING CONIFEROUS TREE	<b>没</b>
EXISTING DECIDUOUS TREE	$\odot$
TREE REMOVAL	⊗ 💥
TREE PROTECTION/CONSTRUCTION FENCE (TREE PROTECTION AREA)	~~~~~
SEDIMENT FENCE	x x
ASSUMED TREE ROOT ZONE (1—FT RADIUS PER 1—IN OF DBH)	
ULNILIN (LU #2021-012).	
ANCHOR POSTS SHALL BE MINIMUM 2" STEEL U CHA OR 2"X2" TIMBER, 6' IN I	E NNEL LENGTH
BE INSTALLED TO A DEPTH OF NO LESS THAN 1/3 THE TOTA HEIGHT OF POST	AL
<ol> <li>BLAZE ORANGE PLASTIC MESH FENCE OR APPROVED EQUAL.</li> <li>AVOID DAMAGE TO CRITICAL ROOT ZOI LARGE ROOTS WHEN INSTALLING POST</li> <li>DEVICE SHALL BE MAINTAINED THROUG</li> </ol>	FOR TREE PROTECTION DEVICE NE. DO NOT DAMAGE OR SEVER S. GHOUT CONSTRUCTION.
<u>NEE FRUIEUIIUN / UU</u>	NSTRUCTION FENCE







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NAT SCA /ING · LAND GINEERING • SUI RESTRY • PLANN ENG FOR

**PRESERVATION AND REMOVAL ESS PARK** BUSIN OREGON STREET SHERWOOD, OR PRELIMINARY

TREE

JOB NUMBER:	7971
DATE:	05/31/2022
DESIGNED BY:	BDL
DRAWN BY:	BDL
CHECKED BY:	JPC

**P15** 



AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM

# OREGON STREET BUSINESS PARK SHERWOOD, OR

JOB NUMBER:	7971				
DATE:	05/31/2022				
DESIGNED BY:	BDL				
DRAWN BY:	BDL				
CHECKED BY:	JPC				
P16					

Detailed Tree Inventory for Oregon Street Business Park					Detailed Tree Inventory for Oregon Street Business Park					Detailed Tree Inventory for Oregon Street Business Park						
Tree # DBH Avg. Cro (in.) Radius (	Tree Species       (ft)     Common Name (Scientific name)	Comments	Health Structure Rating* Rating**	e Remove/ * Preserve	Tree # DBH Avg. Crown (in.) Radius (ft)	Tree Species Common Name ( <i>Scientific name</i> )	Comments	Health Structure Rating* Rating**	Remove/ Preserve	Tree	DBH # (in.)	Avg. Crown Radius (ft)	Tree Species Common Name (Scientific name)	Comments	Health Structu Rating* Rating	ıre Remove/ ;** Preserve
11059         16         0           11060         10         0	Oregon Ash (Fraxinus latifolia ) Oregon Ash (Fraxinus latifolia )	OFFSITE; Evaluated from property line; Dead OFFSITE; Evaluated from property line; Dead	3 3 3 3	Preserve Preserve	11610         11         11           11623         9         10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1184 1184	41     10       42     13	10 16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (E); Crooked bole 1-sided canopy (N)	1 2 1 2	Remove Remove
11061         15         0           11122         15         16	Oregon Ash ( <i>Fraxinus latifolia</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated from property line; Dead OFFSITE; Topped for overhead wires	3 3 2 3	Preserve Remove	11624         8         4           11625         11         10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N)	1 1 1 2	Remove Remove	<u>1184</u> 1184	43 10 44 8	15 6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (W)	1 2 1 1	Remove Remove
11123 16 15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	<b>OFFSITE</b> ; Topped for overhead wires <b>OFFSITE</b> ; Topped for overhead wires; Codominant	2 3	Remove	11626         8         7           11627         7         5	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1184 1184	45 <u>11</u> 46 11	7	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11124         16         15           11125         15         13	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	with included bark OFFSITE: Topped for overhead wires	2 3	Remove	11628         8         3           11629         8         5	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant base with included bark	1 1 1 2	Remove Remove	1184	47 <u>11</u> 48 10	7	Douglas-fir (Pseudotsuga menziesii)	Broken ton	1 1	Remove
11126 18 10	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires; Large cavity	2 3	Remove	11625         6         5           11630         10         7           11621         0         6	Douglas fir (Pseudotsuga menziesii)			Remove	1184	49 7 -0 7	6	Douglas III (Pseudotsuga menziesii)			Remove
11127 15 11	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2 3	Remove	11631         9         6           11633         8         5	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 2 1 1	Remove	1185	50 7 51 7	<u> </u>	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)			Remove Remove
11128         16         13           11129         15         14	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires LINE TREE; Topped for overhead wires	2 3 2 3	Remove Remove	11634         13         16           11635         6         4	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (E)	1 2 1 1	Remove Remove	<u>1185</u> 1185	52 10 53 10	8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove
11130         8         13           11131         14         14	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Topped for overhead wires           Topped for overhead wires	2 3 2 3	Remove Remove	11636         8         7           11637         10         7	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1185 1185	54 <u>6</u> 55 <u>9</u>	8 12	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	1 1 1 2	Remove Remove
11132         19         14           11137         68         20	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Topped for overhead wires Broken at 60'; Dead branches; Sparse canopy; In	2 3	Remove	11638         11         9           11639         11         7	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1185 1185	56 <u>10</u> 57 11	7 8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11137         08         30           11138         14         14	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	decline	1 1	Remove	11640         6         4           11641         8         5	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1 1</u> 1 1	Remove Remove	1185	58 <u>9</u> 597	10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	<u> </u>	Remove Remove
11139         53         40           11141         6         13	Oregon White Oak ( <i>Quercus garryana</i> ) Black Walnut ( <i>Jualans niara</i> )	1-sided canopy (W); Broken limbs	1 2 1 1	Remove Preserve	11642         8         5           11642         7.6         5	Douglas fir (Pseudotsuga menziesii)	Codominant bacowith included bark		Remove	1186	50 10	9	Douglas fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)	1 sided canony (N)		Remove
11142         24         18           11143         6         5	American Chestnut ( <i>Castanea dentata</i> )		1 1	Preserve	11643         7,6         3           11644         10         7           11645         10         14	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove	1180	51 <u>5</u> 52 11	13	Douglas-fir (Pseudotsuga menziesii)	1-sided canopy (N)		Remove
11145 0 5 11150 9 10	Cherry (Prunus avium)	Large cavity with significant decay	2 3	Remove	11645         10         14           11646         9         9	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N)	1         2           1         1	Remove Remove	1186	53     10       54     10	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (W)		Remove Remove
11172 26 14	Apple (Malus domestica)	decay	2 3	Remove	11647         9         8           11648         8         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1186 1186	55     6       56     10	4 16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N)	1 1 1 2	Remove Remove
11175         67         7           11176         11         9	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant base with included bark	1 2 1 1	Remove Remove	11649         11         8           11650         8         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	<u>1186</u> 1186	57 <u>11</u> 58 9	<u>13</u> 13	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove
11177         11         9           11178         9         9	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	<u>11651 10,6 10</u> 11652 8 7	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant base with included bark	<u>1</u> 2 1 1	Remove Remove	1186	59 8 70 8	7	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11179         6         9           11180         8         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	11653 8 7 11654 7 15	Douglas fir (Pseudotsuga menziesii)	1 sided sameny (NI)		Remove	1187	71 9	7	Douglas fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)			Remove
11181         10         7           11182         8         9	Douglas fir (Pseudotsuga menziesii)			Remove	11634         7         15           11655         20         16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove	1187	72 9 73 6	7	Douglas-fir (Pseudotsuga menziesii)			Remove
11182         3         3           11183         9         9           11184         10         0	Douglas-fir (Pseudotsuga menziesii)			Remove	11656         6,6         16           11657         11         12	Bigleaf Maple (Acer macrophyllum) Douglas-fir (Pseudotsuga menziesii)	Codominant	1 1 1 1	Remove Remove	1187	74 44 76 35	20	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant with included bark	1 1 1 2	Remove Remove
11184         10         8           11185         12,10         11	Apple (Malus domestica)	10" stem dead; Small cavities	2 2	Remove	11658         8         6           11659         9         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1187 1187	78 50 79 45	25 18	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S) Sparse canopy	<u>    1   2</u> 2   2	Remove Remove
11186         8         8           11187         8         8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	11660         12         10           11661         8         5	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	1 2 1 1	Remove Remove	1188 1188	82 <u>12</u> 83 9	9	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11188         7         5           11189         9         9	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	11662         12         7           11663         10         8	Douglas-fir (Pseudotsuga menziesii)		1 1 1 1	Remove Remove	1188	34 <u>8</u>	5	Douglas-fir (Pseudotsuga menziesii)		1 1	Remove
11190         7,6,6         8           11191         11 10         11	Douglas-fir (Pseudotsuga menziesii)	Codominant base with included bark	1 2 1 2	Remove Remove	11003         10         0           11664         12         7           11665         10         5	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove	1188	35 8 36 7	5	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove
11191         11,10         11           11192         10         13           11106         7         12	Douglas fir (Pseudotsuga menziesii)			Remove	11665     10     5       11666     9     6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove Remove	1188	87         11           88         11	10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (W)		Remove Remove
11196         7         12           11198         6         12	Douglas-fir (Pseudotsuga menziesii ) Douglas-fir (Pseudotsuga menziesii )	1-sided canopy (E)	1 1 1 2	Remove	11667         6         3           11668         6         4	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1188 1189	89 7 90 7	<u> </u>	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1 1</u> <u>1 1</u>	Remove Remove
11200         9         9           11202         6         8	Apple (Malus domestica ) Douglas-fir (Pseudotsuga menziesii )		1 1 1 1	Remove Remove	11669         7         4           11670         9         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1189 1189	91 7 92 9	<u> </u>	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove
11203         6         8           11204         19         20	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) American Chestnut ( <i>Castanea dentata</i> )		1         1           1         1	Remove Remove	11671         6         5           11672         25         23	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Lean (N): Broken limbs	1 1 1 2	Remove Remove	1189	93 10 94 7	<u> </u>	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
112901818112922415	Norway Maple ( <i>Acer platanoides</i> ) Apple ( <i>Malus domestica</i> )	Dead limb; Small cavities with decay	1 1 2 2	Remove Remove	11673         8         5           11674         6         5	Douglas fir (Pseudotsuga menziesii)	Codominant base with included bark		Remove	1189	95 8	5	Douglas-fir (Pseudotsuga menziesii)			Remove
11304         29         21           11305         6         9	Poplar ( <i>Populus sp.</i> )		<u>1 1</u> 1 1	Remove Remove	11074         0         3           11675         9,7         14           11676         6         2	Bigleaf Maple ( <i>Acer macrophyllum</i> )	Codominant		Remove	1189	97 8 97 8	4	Douglas fir (Pseudotsuga menziesii)			Remove
11314 16 16	Bigleaf Maple ( <i>Acer macrophyllum</i> )	Pruned branch with decay: Dead branches: 1-sided		Remove	11676         6         3           11677         9         6           11602         10         10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove	1189	98 8	6	Douglas-fir (Pseudotsuga menziesii)			Remove Remove
11315 8,8,6 17	Dogwood (Cornus sp. )	canopy (S)	2 2	Remove	11683         49         16           11684         37         16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S); Sparse canopy	$\begin{array}{c ccc} 1 & 1 \\ 2 & 2 \end{array}$	Remove Remove	1190	00 9 01 10	8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove Remove
11316         17,9         18           11378         11,10         19	Norway Maple ( <i>Acer platanoides</i> )	Codominant		Remove	11685         16         19           11686         23         15	Bigleaf Maple (Acer macrophyllum) Douglas-fir (Pseudotsuga menziesii)	1-sided canopy (E)	1 2 1 1	Remove Remove	<u>    1190</u> 1190	D2         12           D3         11	10 10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11379         15,9         17           11380         15,10,12         20	Bigleaf Maple ( <i>Acer macrophyllum</i> ) Bigleaf Maple ( <i>Acer macrophyllum</i> )	Medium cavity with decay in base	1 1 2 2	Remove Remove	11687         22         24           11688         37         16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Crooked bole; 1-sided canopy (E)	1 2 1 1	Remove Remove	1190 1190	04 <u>8,7</u> 05 11	7	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant with included bark	<u>    1   2</u> 1   1	Remove Remove
11381         24         6           11382         28         22	Port Orford Cedar (Chamaecyparis lawsoniana Tree of Heaven (Ailanthus altissima)	<ul> <li>Dead branches; 1-sided canopy (S); In decline</li> <li>Scars; Broken limbs</li> </ul>	3         2           1         2	Remove Remove	11689 38 15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1	Remove	1190	06 8 07 9	7	Douglas-fir (Pseudotsuga menziesii)		<u> </u>	Remove Remove
11383         16         25           11384         19         5	Norway Maple ( <i>Acer platanoides</i> ) Port Orford Cedar ( <i>Chamaecyparis lawsoniana</i>	) Dead branches	1 1 2 1	Remove Remove	11724         15         15           11761         11         17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Crooked top; 1-sided canopy (W); Cavity with decay	2 2	Remove	1190	37         3           08         9           10         10	8	Douglas fir (Pseudotsuga menziesii) Douglas fir (Pseudotsuga menziesii) Douglas fir (Pseudotsuga menziesii)			Remove
11414         10         17           11415         18         16	Douglas-fir (Pseudotsuga menziesii)	Topped for overhead wires	2 3 2 3	Remove Remove	11761         11         17           11762         16         18           11762         0         12	Douglas-fir (Pseudotsuga menziesii)			Remove	1191	$\begin{array}{c c} 10 & 10 \\ \hline 11 & 8 \\ \hline 12 & 11 \\ \end{array}$	5	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove
11416         14         16           11417         15         17	Douglas fir (Pseudotsuga menziesii)	Topped for overhead wires	2 3	Remove	11763         9         12           11764         8         11	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove	1191	12 11 13 8	6	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)			Remove Remove
11417         13         17           11418         12         15           11410         12         12	Douglas-fir (Pseudotsuga menziesii)	Topped for overhead wires	2 3	Remove	11765         9         10           11766         10         13	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S) 1-sided canopy (W)	1         2           1         2	Remove Remove	1191 1191	14 6 15 7	5 4	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove
11419         13         13           11420         19         17	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Topped for overhead wires	2 3	Remove	11767         11         15           11768         11         13	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N) 1-sided canopy (N)	1 2 1 2	Remove Remove	1191 1192	18 11 21 12	10 10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11421         11         15           11422         18         15	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Topped for overhead wires           Topped for overhead wires	2 3 2 3	Remove Remove	11769         11         15           11770         11         15	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S) 1-sided canopy (S)	1 2 1 2	Remove Remove	1192 1192	22 <u>12</u> 26 11	7	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11455         54         25           11468         50         20	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (E)	1 1 1 2	Remove Remove	11771         10         15           11772         9         15	Douglas-fir (Pseudotsuga menziesii)	1-sided canopy (W)	<u>1</u> 2 1 2	Remove Remove	1192	27 9	9	Douglas-fir (Pseudotsuga menziesii)		1 1	Remove
11469         52         23           11470         9         16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (W) 1-sided canopy (W)	1 2 1 2	Remove Remove	11772         5         15           11773         11         16           11782         50         23	Douglas fir (Pseudotsuga menziesii)	1-sided canopy (E)	$\begin{array}{c c} 1 & 2 \\ \hline 1 & 2 \\ \hline 1 & 1 \end{array}$	Remove	1192	44 35	18	Douglas fir (Pseudotsuga menziesii)	Deed felie ze Sneme cononi		Remove
<u>11471 43 20</u> 11524 25 18	Douglas-fir (Pseudotsuga menziesii)		1 1	Remove	11782         39         23           11783         12         11           11721         12         12	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove	1194	46 9	8	Douglas-fir (Pseudotsuga menziesii)			Remove
11524         25         18           11525         15         17           11526         15         17	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii) Douglas fir (Pseudotsuga menziesii)			Remove	11784         12         13           11785         8         12	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1194 1194	47 7 48 7	6 13	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Bigleaf Maple ( <i>Acer macrophyllum</i> )			Remove Remove
11526         15         17           11527         10         10	Douglas-fir (Pseudotsuga menziesii ) Douglas-fir (Pseudotsuga menziesii )			Remove	11786         7         11           11800         35         19	Bitter Cherry ( <i>Prunus emarginata</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	1194 1195	49 9 57 11	<u> </u>	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u> </u>	Remove Remove
11528         20         15           11529         12         15	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	11802         9         14           11803         8,7,6,6         10	Willow (salix sp. ) Common Hawthorn ( <i>Crataegus monogyna</i>	1-sided canopy (W); Dead branches ) Broken tops	2 2 2 3	Remove Remove	<u>    1195</u> 1195	58 <u>9</u> 5910	<u>12</u> 10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 <u>1</u> 1 1	Remove Remove
11530         17         16           11531         15         16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1         1           1         1	Remove Remove	11804         8,6         15           11808         42         20	Willow (salix sp.) Douglas-fir (Pseudotsuga menziesii)		1 1 1 1	Remove Remove	1196 1196	50 8 52 9	7	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1 1</u> 1 1	Remove Remove
11532         17         16           11533         14         15	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove	11809         48         20           11810         19         15	Douglas fir (Pseudotsuga menziesii)	Crooked hele: 1 sided capany (W)		Remove	1196	56 15 70 7	18	Bigleaf Maple ( <i>Acer macrophyllum</i> )			Remove
11534         14         15           11535         15         15	Douglas-fir (Pseudotsuga menziesii)		<u>1</u> <u>1</u> 1 1	Remove	11810         13         15           11818         8         10           11010         5         11	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove		/0   /	/				
11535         15         15           11536         17         13           11527         11         10	Douglas fir (Pseudotsuga menziesii)			Remove	11819     6     11       11820     8     8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove						CERTIFII ARBORIS	D
11537         11         10           11538         9         10           11522         12	Douglas-in (Pseudotsuga menziesii )           Douglas-fir (Pseudotsuga menziesii )			Remove	11821         7         6           11822         9         10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove						PRELIMIN	ARY
11539         13         12           11577         19         17	Douglas-tir ( <i>Pseudotsuga menziesii</i> ) Bigleaf Maple ( <i>Acer macrophyllum</i> )	вгокеп top; Lean (E)	2 3 1 1	Remove Remove	11823         8         10           11824         10         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1         1           1         1	Remove Remove						NOT FO	B
11594         12         14           11595         11         10	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N)	1 2 1 1	Remove Remove	11825         8         7           11826         10         8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove						CONSTRUC	
11596         7,6         7           11597         9         13	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant base with included bark 1-sided canopy (W)	1 2 1 2	Remove Remove	11827 11 8 11828 0 <i>c</i>	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove						ICA	
11598         17         14           11599         10         14	Douglas-fir (Pseudotsuga menziesii)	1-sided canopy (S)	1 1 1 2	Remove Remove	11020         3         0           11829         7         6           11920         7         6	Douglas fir (Pseudotsuga menziesii)			Remove							<b>B</b>
11600         9         11           11601         15         15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	<u> </u>	Remove	11050         /         6           11831         7         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove						BRUCE R. BA CERTIFICATE NUMBER: PI	LDWIN N-6666A
11001         15         15           11602         11         14           11602         15         15	Douglas-in (r seudotsugu menziesii )           Douglas-fir (Pseudotsuga menziesii )	1-sided canopy (N)	1 2 1 2	Remove	11832         9         6           11833         11         8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove						EXPIRATION DATE: 12	/31/23
11603         10         8           11604         10         8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove Remove	11834         8         5           11835         7         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1         1           1         1	Remove Remove							
11605         9         7           11606         13         16	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N)	1 1 1 2	Remove Remove	11836         10         6           11837         11         8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1 1 1	Remove Remove							
11607         12         14           11608         10         13	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant top	1     2       1     1	Remove Remove	11838         6         4           11839         7         5	Douglas-fir (Pseudotsuga menziesii)	Broken top; Sparse canopy	2 3 1 1	Remove Remove							
11609 12 10	Douglas-fir (Pseudotsuga menziesii)		1 1	Remove	11840         9         6	Douglas-fir ( <i>Pseudotsuga menziesii</i> )			Remove							



# OREGON STREET BUSINESS PARK SHERWOOD, OR

PRELIMINARY TREE PRESERVATION AND REMOVAL TABLE

	7071					
JOB NUMBER:	/9/1					
DATE:	05/31/2022					
DESIGNED BY:	BDL					
DRAWN BY:	BDL					
CHECKED BY:	JPC					
P17						



	Detailed Tree Inventory for Oregon Street Business Park											
Tree #	DBH (in.)	Avg. Crown Radius (ft)	Tree Species Common Name ( <i>Scientific name</i> )	Comments	Health Rating*	Structure Rating**	Remove/ Preserve					
11977	43	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Codominant with included bark; One stem dead with	3	2	Remove					
11978	47	16	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	1	2	Remove					
11979 11983	6	11 6	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)	1-sided canopy (N); Broken branches	<u> </u>	2	Remove Remove					
11986 11988	9 8	6 5	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Broken top	1 2	1 3	Remove Remove					
11989	7	6	Douglas-fir (Pseudotsuga menziesii)		1	1	Remove					
11990	8	6	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
11992 11993	8 9	5 6	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1</u> 1	1 1	Remove Remove					
11996 11999	12 10	8	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)		<u>1</u> 1	1	Remove Remove					
12000	11	9	Douglas-fir (Pseudotsuga menziesii)		1	1	Remove					
12001	10	9	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
12003 12005	9 10	7 8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	1 1	2	Remove Remove					
12006 12007	6 7	5	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)		<u>1</u> 1	1	Remove Remove					
12008	13	12	Douglas-fir (Pseudotsuga menziesii)		1	1	Remove					
12009	9	6	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
12011 12012	8 8	6 5	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1</u> 1	1	Remove Remove					
12013 12014	6 10	6	Douglas-fir (Pseudotsuga menziesii) Douglas-fir (Pseudotsuga menziesii)		<u>1</u> 1	1	Remove Remove					
12015	9	6	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
12016	о 8	э 5	Douglas-III ( <i>Fseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
12018 12019	10 7	<u>11</u> 4	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1</u> 1	1	Remove Remove					
12020	6	4	Douglas-fir (Pseudotsuga menziesii)		1	1	Remove					
12021	46	4 15	Douglas-in (Pseudoisuga menziesii) Douglas-fir (Pseudotsuga menziesii)		1	1	Remove					
12027 12030	26 32	14 17	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1</u> 1	1 1	Remove Remove					
12033	47	15	Douglas-fir (Pseudotsuga menziesii)	Broken ton: Significant decay	1	1	Remove					
12038	33	17	Black Cottonwood ( <i>Populus trichocarpa</i> )	broken top; Significant decay	5 1	1	Remove					
12048 12049	38 9	19 15	Black Cottonwood ( <i>Populus trichocarpa</i> ) Oregon Ash ( <i>Fraxinus latifolia</i> )	LINE TREE; 1-sided canopy (S) Broken codominant stem	<u>1</u> 2	2 2	Remove Remove					
12050	9	14	Black Cottonwood (Populus trichocarpa)	Dead	1	1	Remove					
12031	28,31	17	Black Cottonwood ( <i>Populus trichocarpa</i> )	Codominant base	1	1	Remove					
12054	<u>19</u> 30,29,16	13	Black Cottonwood (Populus trichocarpa)	Crooked bole	1	2	Remove					
12055	,15,13 11 7	15	Oregon Ash (Fravinus latifolia)	Small cavities with decay: 1-sided capopy (F)	2	2	Remove					
12060	26	22	Black Cottonwood ( <i>Populus trichocarpa</i> )	1-sided canopy (W)	1	2	Remove					
12063 12064	71 10	0 12	Black Cottonwood ( <i>Populus trichocarpa</i> ) Oregon Ash ( <i>Fraxinus latifolia</i> )	Dead 1-sided canopy (W)	3 1	3	Remove Remove					
12065 12066	9	10 12	Oregon Ash ( <i>Fraxinus latifolia</i> ) Oregon Ash ( <i>Fraxinus latifolia</i> )	1-sided canopy (W)	<u>1</u> 1	1	Remove Remove					
12060	28	17	Black Cottonwood (Populus trichocarpa)	Crooked bole; Lean (W)	1	2	Remove					
12068 12069	12 32	17 35	Oregon Ash ( <i>Fraxinus latifolia</i> ) Black Cottonwood ( <i>Populus trichocarpa</i> )	Lean (W); 1-sided canopy (W); Crooked bole	<u>1</u> 1	1 2	Remove Remove					
12070 12071	8 21	14 17	Black Cottonwood ( <i>Populus trichocarpa</i> ) Black Cottonwood ( <i>Populus trichocarpa</i> )	Lean (W); 1-sided canopy (W) Lean (W)	<u>1</u> 1	2	Remove Remove					
12073	32	0	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Dead	3	3	Remove					
12074 12075	32 7	20 14	Black Cottonwood ( <i>Populus trichocarpa</i> )	Lean (N); 1-sided canopy (N)	2	1 2	Remove Remove					
12076 12077	8 8	9 16	Black Cottonwood (Populus trichocarpa) Douglas-fir (Pseudotsuga menziesii)		<u>1</u> 1	1	Remove Remove					
12078	18	20	Oregon Ash (Fraxinus latifolia)		1	1	Remove					
12079	41	20	Oregon Ash ( <i>Fraxinus latifolia</i> )	1-sided canopy (w)	1	2 1	Remove Remove					
12081 12082	36 56	32 30	Black Cottonwood (Populus trichocarpa) Oregon Ash (Fraxinus latifolia)	1-sided canopy (W) Cavities with decay; Sparse canopy	<u>1</u> 2	2	Remove Remove					
12084	25	18	Bigleaf Maple (Acer macrophyllum)	1-sided canopy (W)	1	2	Remove					
12085	20	0	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Dead	3	3	Remove					
12087 12088	42 42	13 14	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		<u>1</u> 1	1 1	Remove Remove					
12089	7	9	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (W)	1	2	Remove					
12091	7	16	Bigleaf Maple (Acer macrophyllum)	1-sided canopy (S)	1	2	Remove					
12092	6	10 1 Q	Bigleat Maple ( <i>Acer macrophyllum</i> )	Codominant base with included bark; Codominant	1	1	Remove					
12095	13	10 11	Willow (salix sn )	tops Large cavity with significant decay	2	3	Remove					
12097	64	30	Bigleaf Maple (Acer macrophyllum)	Bulges at base; 1-sided canopy (W)	2	2	Remove					
12099	ь 6	4 6	Dougias-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
12101 12104	6 7	4	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuaa menziesii</i> )		1 1	1	Remove Remove					
12105	6	15	Cherry (Prunus avium)	1-sided canopy (W) Dead top: 1-sided canopy (W)	1	2	Remove					
12107	, 21	19	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Broken top; Large cavity with decay; Weak leaders	2	3	Remove					
12109 12111	9 6	17 11	Bigleaf Maple ( <i>Acer macrophyllum</i> ) Bigleaf Maple ( <i>Acer macrophyllum</i> )		<u>1</u> 1	1 1	Remove Remove					
12112	9		Bigleaf Maple (Acer macrophyllum)		1	1	Remove					
25551	 15	0	Black Walnut ( <i>Juglans nigra</i> )	Dead	3	3	Remove					
25552 50000	8 12	7 14	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1 1	1 1	Remove Remove					
50001	12 12	15 14	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (N)	1	2	Remove					
50003	12	10	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
50004 50005	12 9	15 8	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided canopy (S)	1	2 1	Remove Remove					
50006	9 7	4	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	1-sided capony (W)	1	1	Remove					
50007	, 8	9	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove					
113329 113330	17 12	9 12	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires OFFSITE; Topped for overhead wires	22	3 3	Remove Remove					
112221	14	14	Douglas-fir (Pseudotsuga menziesii)	OFFSITE; Topped for overhead wires	2	3	Remove					
113331	14	17	Douglas-fir ( <i>Pseudotsuna menziesii</i> )	UFFSILE: LODDed for overnead wires		3 '						
113331 113332 113333	14 16	17 17	Douglas-fir ( <i>Pseudotsuga menziesii</i> ) Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires OFFSITE; Topped for overhead wires	2	3	Remove					

	DBH	Avg. Crown	Tree Species		Health	Structure	Remove/
Tree #	(in.)	Radius (ft)	Common Name ( <i>Scientific name</i> )	Comments	Rating*	Rating**	Preserve
113336	16	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2	3	Remove
113337	20	13	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2	3	Remove
113338	10	0	Douglas-fir (Pseudotsuga menziesii)	OFFSITE; Dead	3	3	Remove
113339	18	15	Douglas-fir (Pseudotsuga menziesii)	OFFSITE; Topped for overhead wires	2	3	Remove
113340	15	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2	3	Remove
113341	18	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2	3	Remove
113342	8	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2	3	Remove
113343	15	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Topped for overhead wires	2	3	Remove
113354	70	20	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove
113404	39	20	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Preserve
113405	24	13	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Preserve
113406	27	16	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	<b>OFFSITE</b> ; Evaluated behind fence; Mechanical damage with seepage	2	1	Preserve
113407	24	13	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	<b>OFFSITE</b> ; Evaluated behind fence; 1-sided canopy (E)	1	2	Preserve
113408	24	16	Norway Maple (Acer platanoides)	OFFSITE; Evaluated behind fence; Codominant	1	1	Preserve
113454	11	17	American Chestnut ( <i>Castanea dentata</i> )	OFFSITE; Evaluated behind fence; 1-sided canopy (E)		2	Preserve
113461	23	19	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113464	20	19	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113465	27	19	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113469	21	17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113470	16	17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113471	22	17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113472	20	19	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113474	19	17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113483	28	18	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113485	25	17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113487	53	25	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	LINE TREE	1	1	Remove
113490	25	18	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113491	7,4	14	Apple (Malus domestica)	OFFSITE; Evaluated behind fence	1	1	Remove
113499	35	21	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	<b>OFFSITE</b> ; Evaluated behind fence; Codominant base with included bark	1	2	Remove
113509	59	16	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove
113511	30	16	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	LINE TREE	1	1	Remove
113515	34	15	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove
113517	53	19	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113518	37	17	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	OFFSITE; Evaluated behind fence	1	1	Remove
113519	34	18	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	<b>OFFSITE</b> ; Evaluated behind fence; 1-sided canopy (S)	1	2	Remove
113521	37	18	Douglas-fir (Pseudotsuga menziesii)	LINE TREE; Butt sweep	1	2	Remove
113528	45	16	Douglas-fir (Pseudotsuga menziesii)	LINE TREE; Sparse canopy; Dead branches	2	2	Remove
113532	51	19	Douglas-fir (Pseudotsuga menziesii)	Sparse canopy; Dead branches	2	2	Remove
113555	13	13	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove
600000	43	12	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	LINE TREE; Sparse canopy; Dead branches	2	2	Remove
600001	15	16	Douglas-fir ( <i>Pseudotsuga menziesii</i> )	Large cavity with decay up bole; Suppressed	2	3	Remove
600002	37	25	Douglas-fir ( <i>Pseudotsuga menziesii</i> )		1	1	Remove

Total # of Existing Onsite Trees = 404 Total # of Existing Onsite Trees to be Preserved = 3

Total # of Existing Onsite Trees to be Removed = 401

Total # of Existing Offsite Trees = 47

Total # of Existing Offsite Trees to be Preserved = 9

Total # of Existing Offsite Trees to be Removed = 38

### \*Health Rating:

1 = Good Health - A tree that exhibits typical foliage, bark, and root characteristics, for its respective species, shows no signs of infection or infestation, and has a high 2 = Fair Health - A tree that exhibits some abnormal health characteristics and/or shows some signs of infection or infestation, but may be reversed or abated with 3 = Poor Health - A tree that is in significant decline, to the extent that supplemental treatment would not likely result in reversing or abating its decline.

### \*\*Structure Rating:

1 = Good Structure - A tree that exhibits typical physical form characteristics, for its respective species, shows no signs of structural defects of the canopy, trunk, 2 = Fair Structure - A tree that exhibits some abnormal physical form characteristics and/or some signs of structural defects, which reduce the structural integrity of the tree, but are not indicative of imminent physical failure, and may be corrected using arboricultural abatement methods.

3 = Poor Structure - A tree that exhibits extensively abnormal physical form characteristics and/or significant structural defects that substantially reduces the structural viability of the tree, cannot feasibly be abated, and are indicative of imminent physical failure.

### Arborist Disclosure Statement:

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the health of trees, and attempt to reduce the risk of living near trees. The Client and Jurisdiction may choose to accept or disregard the recommendations of the arborist, or seek additional advice. Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like medicine, cannot be guaranteed. Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees. Neither this author nor AKS Engineering & Forestry, LLC have assumed any responsibility for liability associated with the trees on or adjacent to this site.

At the completion of construction, all trees should once again be reviewed. Land clearing and removal of adjacent trees can expose previously unseen defects and otherwise healthy trees can be damaged during construction.

Total # of Existing Line Trees = 7

Total # of Existing Line Trees to be Preserved = 0 Total # of Existing Line Trees to be Removed = 7



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### ABLE **ATION AND REMOVAL** $\mathbf{X}$ ſ 4 SERV SS Ш ШК S Ω TREE Ω ШΜ ШО ſ $\succ$ PRELIMINAR S O ZO **B V** ШШ Ц Ц O S

JOB NUMBER:	7971
DATE:	05/31/2022
DESIGNED BY:	BDL
DRAWN BY:	BDL
CHECKED BY:	JPC



AREA LIGHT LEVEL SUMMARY						
ROADWAY	MATERIAL	AVG LIGHT LEVEL	UNIFORMITY (AVG/MIN)	МАХ	MIN	MAX / MIN
PARKING LOT	ASPHALT	0.5 Fc	5:1	1.4	0.1	14:1

LUMINAIRE AND LIGHT POLE SCHEDULE										
SYMBOL QUAN			ABEL STYLE		LUMINAIRE				LIGH	
	QUANTITI			TYPE	MODEL	INITIAL DELIVERED LUMENS	WATTS	LLF	DISTRIBUTION	POLE
*	13	LP-1	PROPOSED	LED	LITHONIA DSX1	7,073	54W	0.90	TYPE 2M	25' I





## **ESS PARK** BUSIN OREGON STREET SHERWOOD, OR

AN

TING PL

LIGH

SITE

PRELIMINARY



SCALE: 1"= 60 FEET







(BUILDING 3 - 15% GLAZING PROVIDED)



(BUILDING 1 - 15.7% GLAZING PROVIDED)



NORTH ELEVATION 1" = 20'0"

PARKING LOT ISLAND





### ЖX 4 Ω ESS BUSIN OREGON STREET SHERWOOD, OR

**XHIBIT** 

ω

**BUILDING ELEVATION** 

DATE:	05/12/2022
DESIGNED BY:	NKP
DRAWN BY:	NKP
CHECKED BY.	KAH



### **Exhibit B:** City of Sherwood Land Use Application Forms & Checklists

A	Case No
132	Fee
	Receipt #
3 E - Elara	Date
C1City of 1	TYPE
Sherwood	
Oregon	City of Sherwood
Home of the Tualatin River National Wildlife Refuge	on for Land Use Action
Applicati	on for Land Use Action
Type of Land Use Action Requested: (check all tha	t apply)
Annexation	Conditional Use
Plan Amendment (Proposed Zone )	Partition (# of lots)
Ranned Unit Development	Subdivision (# of lots )
Site Plan (square footage of building and parking area)	Other:
Variance (list standards to be varied in description)	
By submitting this form the Owner, or Owner's author and agrees that City of Sherwood employees, and authority to enter the project site at all reasonable t site conditions and gathering information rel	prized agent/ representative, acknowledges appointed or elected City Officials, have imes for the purpose of inspecting project ated specifically to the project site.
••••••••••••••••••••••••••••••••••••••	

Note: See City of Sherwood current Fee Schedule, which includes the "Publication/Distribution of Notice" fee, at <u>www.sherwoodoregon.gov.</u> Click on Government/Finance/Fee Schedule.

### **Owner/Applicant Information:**

Applicant: Bruce Polley - Oregon Street Bus	Phone: Please contact Applicant's Consultant					
Applicant Address: PO Box 1489, Sherv	wood, OR 97140	Email: Please contact Applicant's Consultant				
Owner: Bruce and Karen Polley		Phone: Please contact Applicant's Consultant				
Owner Address: PO Box 1489, Sherwood,	OR 97140	Email: Please contact Applicant's Consultant				
Contact for Additional Information:	Applicant's Consultant: AKS Engineering	& Forestry, LLC				
	Mimi Doukas, AICP, RLA - Principal					
	12965 SW Herman Road, Suite 100					
Property Information:	Tualatin, OR 97062					
Street Location: 21720 SW Oregon Street,	Sherwood, OR 97140					
Tax Lot and Map No: 2S 1W 28C Tax L	ot 500					
Existing Structures/Use: Industrial buildings, fields						
Existing Plan/Zone Designation: Emi	ployment Industrial zoning district					
Size of Property(ies) ±9.51 acres						

### **Proposed Action:**

Purpose and Description of Proposed Action:

Site Plan Review and variance application for new industrial buildings (±115,170 square feet total), parking lot, landscaping, regional stormwater facility, etc.

Proposed Use: Industrial

Proposed No. of Phases (one year each): One

### Authorizing Signatures:

I am the owner/authorized agent of the owner empowered to submit this application and affirm that the information submitted with this application is correct to the best of my knowledge.

I further acknowledge that I have read the applicable standards for review of the land use action I am requesting and understand that I must demonstrate to the City review authorities compliance with these standards prior to approval of my request.

Applicant's Signature Same as above Owner's Signature

Date

Date

The following materials must be submitted with your application or it will not be accepted at the counter. Once taken at the counter, the City has up to 30 days to review the materials submitted to determine if we have everything we need to complete the review. Applicant can verify submittal includes specific materials necessary for the application per checklist.

**3** Copies of Application Form\* completely filled out and signed by the property owner (or person with authority to make decisions on the property.

Copy of Deed to verify ownership, easements, etc.

**At least 3 folded** sets of plans\*

At least 3 copies of narrative addressing application criteria\*

**Fee** (along with calculations utilized to determine fee if applicable)

**Neighborhood Meeting Verification** including affidavit, sign-in sheet and meeting summary (required for Type III, IV and V projects)

\* Note that the required numbers of copies identified on the checklist are required for completeness; however, upon initial submittal applicants are encouraged to submit only 3 copies for completeness review. Prior to completeness, the required number of copies identified on the checklist and one full electronic copy will be required to be submitted.

A	Case No.
152	Fee
	Receipt #
The second secon	Date
Cl <sup>City</sup> of	TYPE
Snerwood	
Oregon	City of Sherwood
Home of the 'liudatin River National Wildlife Refuge Applica	tion for Land Use Action
Type of Land Use Action Requested: (check all t	hat apply)
Annexation	Conditional Use
Plan Amendment (Proposed Zone)	Partition (# of lots)
Planned Unit Development	Subdivision (# of lots)
Site Plan (square footage of building and parking area)	Other:
Variance (list standards to be varied in description)	
By submitting this form the Owner, or Owner's au	thorized agent/ representative, acknowledges

By submitting this form the Owner, or Owner's authorized agent/representative, acknowledges and agrees that City of Sherwood employees, and appointed or elected City Officials, have authority to enter the project site at all reasonable times for the purpose of inspecting project site conditions and gathering information related specifically to the project site.

Note: See City of Sherwood current Fee Schedule, which includes the "Publication/Distribution of Notice" fee, at <u>www.sherwoodoregon.gov.</u> Click on Government/Finance/Fee Schedule.

### **Owner/Applicant Information:**

Applicant: Bruce and Karen Polley		Phone:	Please contact Applicant's Consultant
Applicant Address: PO Box 1489, Sher	wood, OR 97140	Email:	Please contact Applicant's Consultant
Owner: Bruce and Karen Polley		Phone:	Please contact Applicant's Consultant
Owner Address: PO Box 1489, Sherwood	I, OR 97140	Email:	Please contact Applicant's Consultant
Contact for Additional Information: <b>Property Information:</b>	Applicant's Consultant: AKS Engineerin Mimi Doukas, AICP, RLA 12965 SW Herman Road, Suite 100 Tualatin, OR 97062	g & Forestry	ν, LLC
Street Location: 21720 SW Oregon Street			
Tax Lot and Map No: 2S 1W 28C Tax L	ot 500		
Existing Structures/Use: Industrial build	lings, fields		
Existing Plan/Zone Designation: Em	ployment Industrial zoning district		
Size of Property(ies) ±9.51 acres			

### **Proposed Action:**

Purpose and Description of Proposed Action:

Site Plan Review application for new industrial buildings (±120,815 square feet total), parking lot, landscaping, stormwater facility, etc.

Proposed Use: Industrial

Proposed No. of Phases (one year each): One

### **Authorizing Signatures:**

I am the owner/authorized agent of the owner empowered to submit this application and affirm that the information submitted with this application is correct to the best of my knowledge.

I further acknowledge that I have read the applicable standards for review of the land use action I am requesting and understand that I must demonstrate to the City review authorities compliance with these standards prior to approval of my request.

Applicant's Signature Owner's Signature

6-23-2/ Date 6-23-21

The following materials must be submitted with your application or it will not be accepted at the counter. Once taken at the counter, the City has up to 30 days to review the materials submitted to determine if we have everything we need to complete the review. Applicant can verify submittal includes specific materials necessary for the application per checklist.

✓ 3 Copies of Application Form\* completely filled out and signed by the property owner (or person with authority to make decisions on the property.

Copy of Deed to verify ownership, easements, etc.

✓ At least 3 folded sets of plans\*

✓ At least 3 copies of narrative addressing application criteria\*

**Fee** (along with calculations utilized to determine fee if applicable)

✓ Neighborhood Meeting Verification including affidavit, sign-in sheet and meeting summary (required for Type III, IV and V projects)

\* Note that the required numbers of copies identified on the checklist are required for completeness; however, upon initial submittal applicants are encouraged to submit only 3 copies for completeness review. Prior to completeness, the required number of copies identified on the checklist and one full electronic copy will be required to be submitted.



### APPLICATION MATERIALS REQUIRED FOR

### **SITE PLAN REVIEW**

Submit the following to the City of Sherwood Planning Department, 22560 SW Pine St., Sherwood, OR 97140: (503) 925-2308.

It is strongly suggested that you have a pre-application meeting with the City prior to submitting for Site Plan Review. (See *Pre-application Process* form for information.)

Note: Clean Water Services (CWS) requires a pre-screening to determine if water quality sensitive areas exist on the property. If these sensitive areas exist, a Site Assessment and Service Provider Letter are required prior to submitting for Site Plan Review or undertaking any development. <u>This application will not be accepted</u> without a completed Pre-Screening Form and if required a Service Provider Letter. Please contact CWS at (503) 681-3600.

If the proposal is next to a Washington County roadway, the applicant must submit an Access Report (Traffic Study) to Washington County Department of Land Use and Transportation (503) 846-8761. <u>This application</u> will not be accepted until an Access Report (Traffic Study) is submitted to Washington County and the Access Report is deemed complete by the County; or written verification from Washington County that an Access Report is not required is provided.

**FEES** - See City of Sherwood current Fee Schedule, which includes the "Publication/ Distribution of Notice" fee, at <u>http://www.sherwoodoregon.gov</u> Click on Government/Planning/Planning Fees.

**Note:** The above fees are required at the time you submit for site plan review. Additional fees will be charged for building permit, system development charges, impact fees and other fees applicable to the development. These fees will be charged when you make application for building permit. Building permit application will not be accepted until site plan approval is issued.

**BACKGROUND INFORMATION** (All materials to be collated & folded (not rolled) to create \*fifteen (15) sets).

\*Note that the *final* application must contain fifteen (15) folded sets of the above, however, upon initial submittal of the application and prior to completeness review, the applicant may submit three (3) complete folded sets with the application in lieu of fifteen (15), with the understanding that fifteen (15) complete sets of the application materials will be required before the application is deemed complete and scheduled for review.

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V

Application Form – One original and fourteen (14) copies of a completed City of Sherwood Application for Land Use Action form. Original signatures from all owners must be on the application form.



**Documentation of Neighborhood Meeting (**Type III- Type V) - Affidavits of mailing, sign-in sheets and a summary of the meeting notes shall be included with the application.

**Tax Map** - Fifteen (15) copies of the latest Tax Map available from the Washington County Assessor's Office showing property within at least 300 feet with scale (1''=100' or 1''=200') north point, date and legend.

**Mailing Labels** – Two (2) sets of mailing labels for property owners within 1,000 feet of the subject site, including a map of the area showing the properties to receive notice. Mailing labels can be obtained from a private title insurance company. Ownership records shall be based on the most current available information from the Tax Assessor's office. It is the applicant's responsibility to provide mailing labels that accurately reflect all property owners that reside within 1,000 feet of the subject site.



**Vicinity Map** – Fifteen (15) copies of a vicinity map showing the City limits and the Urban Growth Boundary.

**Narrative –** Fifteen (15) copies and **an electronic copy** of a narrative explaining the proposal in detail and a response to the Required Findings for Site Plan Review, located in Chapter 16 of the Municipal Code/Zoning & Development, Section 16.90.010. The Municipal Code/Zoning & Development is available online at <u>www.sherwoodoregon.gov</u>, Click on Government/Municipal Code.

**Electronic Copy** – An electronic copy of the **entire** application packet. This should include all submittal materials (narrative, vicinity map, mailing labels, site plan, preliminary plat, etc.).



### . <u>REQUIRED PLANS</u>

Submit fifteen (15) sets of the following <u>folded</u> full-size plans and <u>an electronic copy in .PDF format</u>. Plans must have:

1) The proposed name of the development. If a proposed project name is the same as or similar to other existing projects in the City of Sherwood, the applicant may be required to modify the project name.

- 2) The name, address and phone of the owner, developer, applicant and plan producer.
- 3) North arrow,
- 4) Legend,
- 5) Date plans were prepared and date of any revisions

6) Scale clearly shown. Other than architectural elevations, all plans must be drawn to an engineer scale.

7) All dimensions clearly shown.



**Existing Conditions Plan** - Existing conditions plan drawn to scale showing: property lines and dimensions, existing structures and other improvements such as streets and utilities, existing vegetation including trees, any floodplains or wetlands and any easements on the property. The existing conditions plan shall also include the slope of the site at 5-foot contour intervals

**Preliminary Development Plans-** Plans must be sufficient for the Hearing Authority to determine compliance with applicable standards. The following information is typically needed for adequate review:

- 1. The subject parcel (s), its dimensions and area.
- 2. The location and dimensions of proposed development, including the following:

### Transportation

- a. Public and private streets with proposed frontage improvements including curb, gutters, sidewalks, planter strip, street lighting, distances to street centerline, pavement width, right-of-way width, bike lanes and driveway drops.
- b. Public and private access easements, width and location.
- c. General circulation plan showing location, widths and direction of existing and proposed streets, bicycle and pedestrian ways, and transit routes and facilities within <sup>1</sup>/<sub>2</sub> mile of the subject property.
- d. Show the location and distance to neighboring driveways and the width and locations of driveways located across the street.
- e. The location and size of accesses, sight distance and any fixed objects on collectors or arterial streets.
- f. Emergency accesses.
- g. Indicate the location and size of off-street parking spaces including curbing and wheel stop locations.
- h. Proposed transit facilities.
- i. Indicate loading and maneuvering areas.
- j. Delivery truck and bus circulation patterns.

Grading and Erosion Control

- k. Indicate the proposed grade at two (2)-foot contour intervals.
- 1. Indicate the proposed erosion control measures to CWS standards (refer to CWS R&O 07-20).
- m. Show areas of cut and fill with areas of structural fill.
- n. Show the location of all retaining walls, the type of material to be used, the height of the retaining wall from the bottom of the footing to the top of the wall and the exposed height of the wall.

### <u>Utilities</u>

- o. Utilities must be shown after proposed grade with 2-foot contour intervals.
- p. Map location, purpose, dimensions and ownership of easements.
- q. Fire hydrant locations and fire flows.
- r. Water, sewer and stormwater line locations, types and sizes.
- s. Clearly indicate the private and public portions of the system.
- t. Above-ground utilities and manhole locations.

### Preliminary Stormwater Plan

- u. Show location, size and slope of water quality facility.
- v. Preliminary calculations justifying size of facility.

- w. The total square footage of the new and existing impervious area.
- x. The stormwater facility to CWS standards. (R&O 07-20).

### Sensitive Areas

- y. Show any and all streams, ponds, wetlands and drainage ways.
- z. Indicate the vegetative corridor for sensitive areas to CWS standards. (R&O 07-20).
- aa. Indicate measures to avoid environmental degradation that meet CWS, DSL and Army Corp requirements.
- bb. Flood elevation.
- cc. Wetland delineation and buffering proposed.
- dd. Location and size of all trees greater than 5 inches DBH (indicate if trees are proposed for removal).

### Land Use

- ee. The square footage of each building and a breakdown of square footage by use. (i.e. retail, office, industrial, residential, etc.).
- ff. Net buildable acres. (The land remaining after unbuildable areas are taken out, such as the floodplain and wetland areas).
- gg. Net density calculation for residential use.
- hh. Landscaping areas including the square footage of the site covered by landscaping and planting types. (refer to Ch. 5 of the Community Development Code).
- ii. Existing trees proposed to remain and trees to be removed and the drip-lines of trees proposed to remain.
- jj. Street tree location, size and type. (refer to Ch. 8, Section 8.304.06 of the Community Development Code).
- kk. Bicycle parking areas. (Refer to Ch 5 of the Community Development Code).
- ll. On-site pathways and sidewalk locations.
- mm. Structures proposed to be built and structures proposed to remain with their dimensions and the distances to property lines.
- nn. Outdoor storage areas and proposed screening.
- oo. Outdoor sales and merchandise display areas and proposed screening.
- pp. Truck loading and maneuvering areas.
- qq. Number of parking spaces and required parking calculations based on Section 5.302 of the Community Development Code.
- rr. The size and location of solid waste and recycle storage areas and screening.
- ss. Location, size and height of proposed free-standing signs.
- tt. Location, height and type of fencing and walls.
- uu. For each lot indicated the building envelope.



**Reduced - Proposed Development Plans –** One (1) reduced copies of the Proposed Development Plan on 8 1/2" by 11" sheets and fifteen (15) reduced copies on 11" by 17" sheets.



**Lighting Plan** – Photometric lighting plan indicating foot candle power on and along the perimeter of the site. Proposed locations, height and size of lights. (If outdoor lighting is proposed).

Surrounding Land Uses – Existing land use including nature, size and location of existing structures within 300 feet.

**Architectural Exterior** – Scaled architectural sketches and elevations of all proposed structures. Include a description of materials, textures and colors. Show the size, placement and dimensions of proposed wall signs on the elevation drawings. These drawings can be done at an architectural or engineering scale. If color is used, two color copies and eight black and white copies are acceptable.

### IV. DOCUMENTS REQUIRED

**Title Report** – Two (2) copies of a current preliminary title report available from a private title insurance company.

CWS Service Provider Letter - Four (4) copies of the CWS service provider letter

### V. ADDITIONAL DOCUMENTS THAT MAY BE REQUIRED

Army Corps and DSL wetland applications and/or permits – Four (4) copies of required Divisions of State Lands and/or Army Corp of Engineers permits and/or permit applications if applicable.

Traffic Study – Four (4) copies of a traffic study. (If required by the City Engineer).

**Soils Analysis and/or Geotechnical Report** – Four (4) copies completed by a registered Soils Engineer or Geologist including measures to protect natural hazards. (If required by the City Engineer).

**Tree Report –** Two (2) copies of a tree report prepared by an arborist, forester, landscape architect, botanist or other qualified professional. (If required trees are on-site).

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**Natural Resource Assessment –** If required by Clean Water Services (CWS). The CWS Pre-Screening indicates as to whether this report is required or not.



Wetland Delineation Study – if required by Oregon Division of State Lands (DSL) or the Army Corps of Engineers.

- N/A Other Special Studies and/or Reports if required by the Planning Director or the City Engineer to address issues identified in the pre-application meeting or during project review.
- N/A Verification of compliance with other agency standards such as CWS, DSL, Army Corps of Engineers, ODOT, PGE, BPA, Washington County.



Exhibit C: Washington County Assessor's Map

SW1/4 SECTION 28 T2S R1W W.M.

WASHINGTON COUNTY OREGON



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2S | 28C

FOR ANY OTHER USE



Exhibit D: Preliminary Stormwater Report

Oregon Street Business Park Sherwood, Oregon

**Stormwater Report** 

Date:

**Client:** 

May 12, 2022

Braden Lambert

Oregon Street Business Park, LLC PO Box 1489 Sherwood, Oregon 97140

**Engineering Contact:** 

John Christiansen, PE 503-563-6151 | johnc@aks-eng.com

**Prepared By:** 

**Engineering Firm:** 

AKS Engineering & Forestry, LLC 12965 SW Herman Road Suite 100 Tualatin, OR 97062

**AKS Job Number:** 

7971



RENEWAL DATE: 12/31/21



www.aks-eng.com



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### Exhibits

Exhibit A: Vicinity Map Exhibit B: Pre-Developed Stormwater Catchment Map Exhibit C: Post-Developed Stormwater Catchment Map

### Appendices

**Appendix A:** Peak Flow Calculations – HydroCAD Analysis

**Appendix B:** USDA – NRCS Soil Resource Report

Appendix C: TR 55 Runoff Curve Numbers

Appendix D: Stormwater Quality Calculations

Appendix E: Geotechnical Report

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Appendix G: Operations and Maintenance Plan

Appendix H: SLOPES V Information Form



### Stormwater Report OREGON STREET BUSINESS PARK SHERWOOD, OREGON

### **1.0** Purpose of Report

The purpose of this report is to analyze the effects the proposed development will have on the existing stormwater conveyance system; document the criteria, methodology, and informational sources used to design the proposed stormwater system; and present the results of the preliminary hydraulic analysis.

### 2.0 Project Location/Description

The proposed industrial development will be located at the intersection of SW Oregon St and SW Tonquin Rd, encompassing approximately 9.53 acres (Tax Lot 500, Washington County Assessor's Map 2S 1W 28C). Improvements include the construction of industrial buildings, paved site access, public and private underground utilities and a stormwater facility. The development will result in the addition and/or modification of approximately 7.64 acres of impervious area to the existing site.

### 3.0 Regulatory Design Criteria

### 3.1. Stormwater Quantity

3.1.1. Clean Water Services Standards

Per Clean Water Services' (CWS) *Design and Construction Standards* (R&O 19-22), *Section 4.02: Water Quantity Control Requirements*, on-site detention is required when any of the following conditions exist:

- a. There is an identified downstream deficiency and the District or City determines that detention rather than conveyance system enlargement is the more effective solution.
- b. There is an identified regional detention site within the boundary of the development.
- c. Water quantity facilities are required by District-adopted watershed management plans or adopted subbasin master plans.

Stormwater quantity will be met by creating a stormwater facility in the southwest corner of the site.

Further description of stormwater quantity management for the project is provided in Section 6.4 of this report.

### 3.1.2. NMFS SLOPES V Standards

Because the project requires a Clean Water Act (CWA) Section 404 permit from the US Army Corps of Engineers (USACE), the stormwater quantity management system was designed to meet the National Marine Fisheries Service (NMFS) requirements of the revised Standard Local Operating Procedures for Endangered Species (SLOPES V, NMFS No: NWR-2013-10411). SLOPES V criteria require the implementation of a Stormwater Management Plan that includes water quantity retention or detention facilities for all stormwater systems that do not discharge directly into a major body of water (e.g. lakes, rivers, etc.). SLOPES V criteria require retention or detention facilities that limit discharge to match predeveloped discharge rates using a continuous simulation for flows between 50 percent of the 2-year design storm and the 10-year design storm.



### 3.2. Hydromodification

Per CWS R&O 19-22, Section 4.03: Hydromodification Approach Requirements, the implementation or funding of techniques to reduce impacts to the downstream receiving water body is required when a new development, or other activities, creates or modifies 1,000 square feet or more of impervious surfaces or increases the amount or rate of surface water leaving the site. The following techniques may be used to mitigate impacts to the downstream receiving water body:

- a. Construction of permanent LIDA designed in accordance with this Chapter; or
- b. Construction of a permanent stormwater detention facility designed in accordance with this Chapter; or
- c. Construction or funding of a hydromodification approach that is consistent with a Districtapproved sub-basin strategy; or
- d. Payment of a Hydromodification Fee-In-Lieu.

Per Section 4.03.2, unless specifically waived in writing by the District, a Hydromodification Assessment is required of all activities described in Section 4.03.1, unless the activity meets any of the following criteria:

- a. The project results in the addition and/or modification of less than 12,000 square feet of impervious surface.
- b. The project is located within a District-approved sub-basin strategy with an identified regional stormwater management approach for hydromodification.

The project will result in the addition and/or modification of approximately 7.64 acres of impervious surface. Therefore, hydromodification will be addressed by the implementation of a stormwater facility in the southwest corner of the site. The proposed stormwater facility is designed to provide peak-flow matching detention, using the criteria established within CWS Section 4.08.6. A Hydromodification Assessment and further description of the hydromodification management approach is provided in Section 6.3 of this report.

### 3.3. Stormwater Quality

### 3.3.1. Clean Water Services Standards

Per CWS R&O 19-22, Section 4.04: Water Quality Treatment Requirements, the implementation or funding of permanent water quality approaches are required when new development or other activities create or modify 1,000 square feet or greater of impervious surfaces, or increase the amount of stormwater runoff or pollution leaving the site.

This project will result in the addition and/or of modification of approximately 7.64 acres of impervious area; thus, increasing the amount of stormwater runoff leaving the site. Stormwater quality management for this project will be met by creating a stormwater facility in the southwest corner of the site. The proposed stormwater facility has been designed per CWS Standards. Further description of stormwater quality management for the project is provided in Section 6.2 of this report.

### 3.3.2. NMFS SLOPES V and DEQ Section 401 Water Quality Certification Program Standards

Per SLOPES V and Oregon Department of Environmental Quality (DEQ) CWA Section 401 Water Quality Certification Program standards, water quality treatment for post-construction stormwater runoff from all contributing impervious area is required. The stormwater quality treatment facilities will be designed to accept and fully treat the volume of stormwater equal to either 50 percent of the cumulative rainfall



from the 2-year, 24-hour storm event or at least 80 percent of the average annual rainfall, as modeled with a continuous rainfall/runoff model.

**3.3.3.** Post-Construction Stormwater Management Plan for Section 401 Water Quality Certification To address post construction stormwater pollution, the DEQ CWA Section 401 Water Quality Certification Program requires a post-construction Stormwater Management Plan to meet the most current standards and regulations. This report has been prepared to supplement the DEQ's 401 Post-Construction Stormwater Management Plan Submission Form.

### 4.0 Design Methodology

The Santa Barbara Urban Hydrograph (SBUH) Method was used to analyze stormwater runoff from the site. This method utilizes the Natural Resource Conservation Service (NRCS) Type 1A 24-hour design storm. HydroCAD 10.00 computer software aided in the analysis. Representative runoff Curve Numbers (CN) were obtained from the NRCS *Urban Hydrology for Small Watersheds* (Technical Release 55), and are included in Appendix C.

### 5.0 **Design Parameters**

### 5.1. Design Storms

Per CWS requirements, the stormwater analysis used the 24-hour storm for the evaluation and design of the existing and proposed stormwater facilities. The following 24-hour rainfall intensity was used as the design storm for the recurrence interval:

Recurrence Interval (Years)	Total Precipitation Depth (Inches)
2	2.50
5	3.10
10	3.45
25	3.90

### Table 5-1: Rainfall Intensities

### 5.2. Pre-Developed Site Conditions

### 5.2.1. Site Topography

Existing on-site grades generally vary from  $\pm 1\%$  to  $\pm 45\%$ , with the site draining towards the southwest (existing SW Tonquin Rd). The site has a high point of  $\pm 203$  feet in the northeast property corner and a low point of  $\pm 132$  feet in the southwest property corner. There is an off-site contributing basin to the east of the site that also drains towards the southwest corner of the site. This contributing basin is 45.39 acres. The high point of this basin is  $\pm 234$  along its eastern edge.

### 5.2.2. Land Use

The existing zoning is Employment Industrial. The existing site consists of an industrial property with gravel driveway and parking lot, buildings, and field areas. The contributing basin to the east consists of field areas with scattered trees.

### 5.3. Soil Type

The soil beneath the project site and associated drainage basins is classified as Briedwell Stony Silt Loam, Cove Silty Clay Loam, Laurelwood Silt Loam and Xerochrept-Rock outcrop complex according to the USDA



Natural Resources Conservation Service (NRCS) Soil Survey for Washington County. The following table outlines the Hydrologic Soil Group rating for these soil type:

NRCS Map Unit Identification	NRCS Soil Classification	Hydrologic Soil Group Rating
5B	Briedwell Stony Silt Loam	В
13	Cove Silty Clay Loam	D
28B	Laurelwood Silt Loam	В

Table 5-2: Hydrologic Soil Groupings

Further information on this soil type is included in the NRCS Soil Resource Report located in Appendix B of this report.

### 5.4. Post-Developed Site Conditions

### 5.4.1. Site Topography

The on-site slopes will be modified with cuts and fills to accommodate the construction of building pads, pavement parking areas and drive aisles and a stormwater facility. Retaining walls will be created along the southern, western, and eastern edges of the paved section of the site. Overall site topography will continue to drain to the southwest with grades between 2% and 33%. A new public road will be constructed along the east edge of the site.

### 5.4.2. Land Use

The zoning will remain Employment Industrial. The post-developed site land use will consist of industrial buildings with associated underground utilities and paved site access.

### 5.4.3. Post-Developed Site Parameters

See HydroCAD Analysis in the attached appendices.

### 5.4.4. Description of Off-Site Contributing Basins

The contributing off-site basin to the east is approximately 45.39 acres. The site was recently logged, and redevelopment is anticipated in the near future. A public stormwater main will be extended to this property as part of this anticipated development.

### 6.0 Stormwater Analyses

### 6.1. Proposed Stormwater Conduit Sizing and Inlet Spacing

The proposed public stormwater main will be constructed to the south of the subject site and discharge to the Rock Creek stream corridor to the west of the subject site. It will be sized to provide adequate capacity to serve adjacent downstream and upstream development areas. The proposed stormwater conveyance system will connect to the proposed stormwater facility, and then connect to the proposed public stormwater main. The proposed onsite stormwater drainage conduits and inlets will be spaced in accordance with CWS requirements to properly convey stormwater runoff. Storm drainage piping will be designed using Manning's equation and sized to convey peak flows generated by the 25-year design storm event.



### 6.2. Proposed Stormwater Quality Control Facility

Stormwater quality treatment for newly created on-site impervious surfaces will be addressed by the construction of a stormwater quality facility designed to per Clean Water Services Design and Construction Standards for Sanitary Sewer and Surface Water Management (R&0 19-05). This facility will be sized to treat runoff from the impervious area created by the proposed project according to CWS and Slopes V water quality requirements. Detailed calculations are included in Appendix D.

A portion of the project site cannot be directed to the stormwater facility due to site grading and layout. Stormwater runoff from new sidewalks and adjacent landscape areas will be directed to the existing stormwater catch basins on SW Tonquin Road and SW Oregon Street, discharging into the Rock Creek stream corridor.

### 6.2.1. Hydromodification Assessment

- Risk Level (CWS R&O 4.03.3.a) Low
- Development Class (CWS R&O 4.03.3.b) Expansion Area
- Project Size Category (CWS R&O 4.03.3.c) Large
- Project Category (R&0 4.03.5, Table 4-2) Category 3

### 6.2.2. Hydromodification Approach

The proposed project will result in the addition and/or modification of approximately 7.64 acres of impervious area. Based on the parameters in Section 6.2.1 this project is classified as a Category 3 Hydromodification Approach. This will be addressed with the construction of a stormwater quality facility. It will be sized for detention per CWS Section 4.08.6 so site runoff does not exceed 50% of the predevelopment 2, 5 and 10 year storm event flows. Detailed calculations are included in Appendix D.

### 6.3. Proposed Stormwater Quantity Control Facility

Stormwater quality treatment for newly created on-site impervious surfaces will be addressed by the construction of a stormwater quality facility in the southwest corner of the site. The following table summarizes the pre and post developed flows from the stormwater facility. Post developed flows are limited to less than the allowable pre-development park flows, as outlined within CWS stormwater quantity and hydromodification management requirements. The facility was sized and designed to provide water quality treatment according to CWS and Slopes V water quantity requirements. Detailed calculations are included in Appendix D.

Recurrence Interval (Years)	Peak Pre-Development Flows (cfs)	Peak Post-Development Flows (cfs)*	Peak Flow Increase or (Decrease) – (cfs)
2	0.24 (50% of 2-yr=0.12)	0.10	(0.02)
5	0.57	0.11	(0.46)
10	0.92	0.31	(0.61)
25	1.43	0.46	(0.97)

Table 6-1: Pre and Post Developed On Site Flows

\*Peak post-developed flow for 2-year storm event is less than equal to 50% of 2-year peak pre-developed flow.

### 6.4. Downstream Analysis

A downstream analysis was not performed because the onsite stormwater facility will be designed to limit site post-developed discharge to the pre-developed flows by providing detention. The proposed project will provide stormwater detention via an extended dry basin designed per Clean Water Services'



standards. The outfall from the stormwater facility will discharge directly to the vegetated corridor adjacent to Rock Creek.

### 7.0 SLOPES V Stormwater Management Design

This stormwater summary report demonstrates that the planned stormwater conveyance and management system for this project meets SLOPES V. The following paragraphs are intended to address specific concerns for the NMFS review of the project.

### 7.1. Pollutants of Concern

The pollutants of concern for Rock Creek are arsenic, iron, lead year-round and dissolved oxygen from Jan 1 to May 15.

### 7.2. Low Impact Development

To provide water quality, the bottom of the stormwater facility will consist of 18 inches of growing medium and will be planted with grasses, shrubs and trees. Stormwater runoff from the impervious area will flow through the stormwater facility and allow pollutants to settle and filter out. Hydraulic, physical, biological, and chemical processes such as absorption, filtration, infiltration, nitrification, decomposition, sedimentation, and thermal control will take place when stormwater runoff flows through the facility. See Appendix F for Clean Water Services planting requirements and facility cross-section.

The stormwater facility is also designed to detain and reduce the flow rate and velocity of stormwater flows. This will reduce the quantity of stormwater runoff, and reduce the total sediment load before entering the downstream system.

### 7.3. Operations and Maintenance

The owner is required to conduct annual inspections with recommended monthly inspections. Any discovered deficiencies must be corrected within 30 days of the inspection. The district maintains the right to conduct inspections with either 10 days written notice or as required by an emergency. Any deficiencies found during district inspections must be corrected within 30 days of the inspection. Any deficiencies not corrected within 30 days of inspection may be corrected by the district at the expense of the owner.

See Appendix G for a typical Clean Water Services Operations and Maintenance plan.



### Exhibit A: Vicinity Map



DWG: 7971 VICINITY MAP | EXH A


# Exhibit B: Pre-Developed Stormwater Catchment Map





# Exhibit C: Post-Developed Stormwater Catchment Map





# Appendix A: Peak Flow Calculations – HydroCAD Analysis



# Pre-Developed Node Diagram and Area Summary Table





# **Pre-Developed 2-yr Storm Event Peak Flow Calculations**

7971 PRE-DEV	Туре	A 24-hr 2-YEAR Rainfall=2.50"
Prepared by AKS Engineering & Forestry	, LLC	Printed 5/12/2022
HydroCAD® 10.00-22 s/n 01338 © 2018 Hydro	CAD Software Solutions LLC	Page 2
Time span=0.00- Runoff by SBUI Reach routing by Dyn-Stor-Ind <b>Subcatchment1S (E): Pre-Dev Polley East</b>	24.00 hrs, dt=0.05 hrs, 48 H method, Split Pervious/Ir method - Pond routing by Runoff Area=9.540 ac 2.1 Ponth=1.075' Tc=15.2 min	1 points nperv. v Dyn-Stor-Ind method 10% Impervious Runoff Depth>0.36" CN=66/98 Runoff=0.23 cfs. 0.288 af
Subcatchment2S (E): Pre-Dev Polley West	Runoff Area=0.320 ac 0.0 Tc=5.0 min	00% Impervious Runoff Depth>0.30" CN=65/0 Runoff=0.01 cfs 0.008 af
Subcatchment3S (E): Pre-Dev Oregon St	Runoff Area=0.940 ac 90.4 Tc=5.0 min	43% Impervious Runoff Depth>2.13" CN=79/98 Runoff=0.50 cfs 0.167 af
Subcatchment4S (E): Pre-Dev Niemeyer Flow Le	Runoff Area=45.390 ac 1.0 ength=1,550' Tc=39.4 min	06% Impervious Runoff Depth>0.99" CN=82/98 Runoff=5.73 cfs 3.736 af
Link 2L (E): Pre-Dev Flow		Inflow=6.17 cfs 4.198 af Primary=6.17 cfs 4.198 af

Total Runoff Area = 56.190 acRunoff Volume = 4.198 afAverage Runoff Depth = 0.90"97.28% Pervious = 54.660 ac2.72% Impervious = 1.530 ac

### Summary for Subcatchment 1S (E): Pre-Dev Polley East

Runoff = 0.23 cfs @ 17.07 hrs, Volume= 0.288 af, Depth> 0.36"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 2-YEAR Rainfall=2.50"

Area (	ac) C	N Des	cription		
8.9	920 6	65 Woo	ods/grass o	omb., Fair,	HSG B
0.2	200 9	98 Pave	ed parking	, HSG B	
0.4	120 9	96 Grav	el surface	, HSG B	
9.5	540 6	67 Weig	ghted Aver	age	
9.3	340 6	6 97.9	0% Pervio	us Area	
0.2	200 9	98 2.10	% Impervi	ous Area	
_					
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
5.8	100	0.1000	0.29		Sheet Flow, Sheet Flow
					Grass: Short
5.6	750	0.1000	2.21		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.8	225	0.0200	0.99		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
15.2	1,075	Total			

### Subcatchment 1S (E): Pre-Dev Polley East



### Summary for Subcatchment 2S (E): Pre-Dev Polley West

Runoff 0.01 cfs @ 17.60 hrs, Volume= 0.008 af, Depth> 0.30" =

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 2-YEAR Rainfall=2.50"

	Area (	ac) CN	Desc	ription							
*	0.3	320 65	Wood	ds/grass o	comb., Fair	, HSG B					
	0.3	320 65	100.0	0% Pervi	ous Area						
(	Tc min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Descri	ption				
	5.0					Direct	Entry,				
				Subcato	chment 2 <sub>Hydro</sub>	S (E): I	Pre-De	v Polley	v West		
	0.007 0.007							0.01 cf			– Runoff
	0.006	Type	IA 24	l-hr			+ + - I	-	+ + 1 1		
	0.006	2-YE		ainfall	=2.50"			<mark> </mark>     -		+	
	0.005		off Δre	a=0 3	20 ac /						
	0.005					-i		-	+	+ + +	
Į.	0.004	- Rune		iume–	0.000 a	<u>i</u>		;;;-			
,		Rund	off De	pth>0.	307						1
ī	E 0.003	Tc=5	.0 mir								
	0.002	CN=6	65/0	        ++							
	0.002			  +				          -	     		
	0.001							 !!			
	0.001			+ + +	-	++	++-	-	++	+	
	0.000					$\frac{1}{1} \frac{1}{1} \frac{1}{1}$					
	0	<b>1</b>							10 20 1	++++++++++++++++++++++++++++++++++++++	
		0 1 2	5 4 5	, , ,	0 9 10		, 14 15		19 20 2	21 22 23 2	.4

Time (hours)

### Summary for Subcatchment 3S (E): Pre-Dev Oregon St

Runoff = 0.50 cfs @ 7.91 hrs, Volume= 0.167 af, Depth> 2.13"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 2-YEAR Rainfall=2.50"

	Area (ac)	CN	Descripti	ion		
*	0.850	98	Paved St	treet, F	ISG B	
	0.090	79	<50% Gr	rass co	ver, Poor,	HSG B
	0.940	96	Weighteo	d Avera	age	
0.090 79		9.57% Pe	ervious	Ārea		
0.850 98			90.43% Impervious Area			
	Tc Leng (min) (fee	jth et)	Slope Vel (ft/ft) (ft	locity /sec)	Capacity (cfs)	Description
	5.0					Direct Entry,
			Su	ubcate	chment 3	3S (E): Pre-Dev Oregon St



### Summary for Subcatchment 4S (E): Pre-Dev Niemeyer

Runoff = 5.73 cfs @ 8.21 hrs, Volume= 3.736 af, Depth> 0.99"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 2-YEAR Rainfall=2.50"

Area	(ac) C	N Des	cription		
32.4	480	79 <50	% Grass c	over, Poor,	HSG B
0.4	480	98 Pav	ed parking	, HSG D	
12.4	430	89 <50	% Grass c	over, Poor,	HSG D
45.	390	82 Wei	ghted Aver	age	
44.	910	82 98.9	94% Pervio	us Area	
0.4	480	98 1.06	3% Impervi	ous Area	
Тс	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
14.6	100	0.0100	0.11		Sheet Flow, Sheet Flow
					Grass: Short
21.4	1,100	0.0150	0.86		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.4	350	0.0600	1.71		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
39.4	1,550	Total			

#### Subcatchment 4S (E): Pre-Dev Niemeyer



### Summary for Link 2L (E): Pre-Dev Flow

Inflow A	Area	=	56.190 ac,	2.72% Impervious,	Inflow Depth > 0	.90" for 2-YEAR event
Inflow		=	6.17 cfs @	8.15 hrs, Volume	e 4.198 at	F
Primary	у	=	6.17 cfs @	8.15 hrs, Volume	e= 4.198 at	f, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



## Link 2L (E): Pre-Dev Flow



# **Pre-Developed 5-yr Storm Event Peak Flow Calculations**

7971 PRE-DEV		Type IA 24-h	nr 5-YEAR Rain	ofall=3.10"
Prepared by AKS Engineering & Forestry,	LLC		Printed	5/12/2022
HydroCAD® 10.00-22 s/n 01338 © 2018 HydroC	CAD Software Solution	ons LLC		Page 8
				-
Time span=0.00-2	24.00 hrs, dt=0.05 l	hrs, 481 points		
Runoff by SBUH	I method, Split Perv	vious/Imperv.		
Reach routing by Dyn-Stor-Ind r	method - Pond rou	uting by Dyn-Sto	or-Ind method	
Subcatchment1S (E): Pre-Dev Polley East	Runoff Area=9.540	) ac 2.10% Impe	ervious Runoff De	epth>0.63"
Flow Le	ngth=1,075' Tc=15.	2 min CN=66/98	8 Runoff=0.51 cfs	s 0.504 af
	<b>D</b> (( <b>A</b> ) ) ) )			
Subcatchment2S (E): Pre-Dev Polley West	Runoff Area=0.320	ac 0.00% Impe	ervious Runoff De	epth>0.55"
	I C=	5.0 min CN=65/	0 Runoff=0.01 cfs	s 0.015 af
Subactabrant28 (E): Bra Day Oragon St	Pupoff Aroa=0.040	ac 00.43% Impo	nvious Pupoff Do	onth > 2 71"
Subcalchment35 (E). Pre-Dev Oregon St		0 min CN-70/0	8 Pupoff-0.64 cf	$p_{\rm m} = 2.7$
	10-0.		0 TUII0II-0.04 CR	5 0.212 ai
Subcatchment4S (E): Pre-Dev Niemever	Runoff Area=45 390	) ac 1 06% Impe	ervious Runoff De	oth>1 44"
Flow Le	ngth=1.550' Tc=39.	4 min CN=82/98	8 Runoff=9.20 cfs	5.451 af
	g,	00	• • • • • • • • • • • • • • • • • • • •	
Link 2L (E): Pre-Dev Flow			Inflow=10.16 cf	s 6.181 af
			Primary=10.16 cf	s 6.181 af
			-	
	D (()/)			4 4 4 4 4

Total Runoff Area = 56.190 acRunoff Volume = 6.181 afAverage Runoff Depth = 1.32"97.28% Pervious = 54.660 ac2.72% Impervious = 1.530 ac

### Summary for Subcatchment 1S (E): Pre-Dev Polley East

Runoff = 0.51 cfs @ 8.21 hrs, Volume= 0.504 af, Depth> 0.63"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 5-YEAR Rainfall=3.10"

Area (	ac) C	N Des	cription		
8.9	920 6	65 Woo	ods/grass o	omb., Fair,	HSG B
0.2	200 9	8 Pave	ed parking	, HSG B	
0.4	420 9	96 Grav	el surface	, HSG B	
9.5	540 6	67 Weig	ghted Aver	age	
9.3	340 6	6 97.9	0% Pervio	us Area	
0.2	200 9	98 2.10	% Impervi	ous Area	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
5.8	100	0.1000	0.29		Sheet Flow, Sheet Flow
					Grass: Short
5.6	750	0.1000	2.21		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.8	225	0.0200	0.99		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
15.2	1.075	Total			

.2 1,075 Total

### Subcatchment 1S (E): Pre-Dev Polley East



### Summary for Subcatchment 2S (E): Pre-Dev Polley West

Runoff = 0.01 cfs @ 8.06 hrs, Volume= 0.015 af, Depth> 0.55"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 5-YEAR Rainfall=3.10"

	Area	(ac)	CN	Desc	ription						
*	0.	320	65	Woo	Voods/grass comb., Fair, HSG B						
	0.	320	65	100.0	00% Pervi	ous Area					
	Tc (min)	Leng (fee	th et)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
	5.0						Direct Entry,				
	Subcatchment 2S (E): Pre-Dev Polley West										



### Summary for Subcatchment 3S (E): Pre-Dev Oregon St

Runoff = 0.64 cfs @ 7.90 hrs, Volume= 0.212 af, Depth> 2.71"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 5-YEAR Rainfall=3.10"

	Area (	ac)	CN	Desc	ription		
*	0.0	350	98	Pave	d Street, I	HSG B	
	0.0	)90	79	<50%	6 Grass co	over, Poor,	, HSG B
	0.940 96 Weighted Average					age	
	0.090 79 9.57% Pervious Area						
	0.8	0.850 98 90.43% Impervious Area				rious Area	
	Tc (min)	Lengt (feet	h S	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	5.0						Direct Entry,

### Subcatchment 3S (E): Pre-Dev Oregon St



### Summary for Subcatchment 4S (E): Pre-Dev Niemeyer

Runoff = 9.20 cfs @ 8.16 hrs, Volume= 5.451 af, Depth> 1.44"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 5-YEAR Rainfall=3.10"

Area (	(ac) C	N Des	cription			
32.4	480	79 <50	% Grass c	over, Poor,	HSG B	
0.4	480	98 Pav	ed parking	, HSG D		
12.4	430	89 <50	% Grass c	over, Poor,	HSG D	
45.390 82			Veighted Average			
44.9	910	82 98.9	94% Pervic	us Area		
0.4	480	98 1.06	3% Impervi	ous Area		
_				<b>-</b>		
Tc	Length	Slope	Velocity	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		
14.6	100	0.0100	0.11		Sheet Flow, Sheet Flow	
					Grass: Short	
21.4	1,100	0.0150	0.86		Shallow Concentrated Flow, Shallow Concentrated	
					Short Grass Pasture Kv= 7.0 fps	
3.4	350	0.0600	1.71		Shallow Concentrated Flow, Shallow Concentrated	
					Short Grass Pasture Kv= 7.0 fps	
39.4	1,550	Total				

#### Subcatchment 4S (E): Pre-Dev Niemeyer



### Summary for Link 2L (E): Pre-Dev Flow

Inflow A	Area =	=	56.190 ac,	2.72% Impervious,	Inflow Depth >	1.32" for 5-YI	EAR event
Inflow	=		10.16 cfs @	8.10 hrs, Volume	= 6.181 a	ıf	
Primary	/ =		10.16 cfs @	8.10 hrs, Volume	= 6.181 a	ıf, Atten= 0%,	Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



### Link 2L (E): Pre-Dev Flow



# **Pre-Developed 10-yr Storm Event Peak Flow Calculations**

7971 PRE-DEV	Type IA 24-hr	10-YEAR Rainfall=3.45"
Prepared by AKS Engineering & Forestry	r, LLC	Printed 5/12/2022
HydroCAD® 10.00-22 s/n 01338 © 2018 Hydro	CAD Software Solutions LLC	Page 14
Time span=0.00 Runoff by SBU Reach routing by Dyn-Stor-Ind	-24.00 hrs, dt=0.05 hrs, 481 points H method, Split Pervious/Imperv. method - Pond routing by Dyn-Sto	or-Ind method
Flow Lo	ength=1,075' Tc=15.2 min CN=66/98	Runoff=0.83 cfs 0.648 af
Subcatchment2S (E): Pre-Dev Polley West	t Runoff Area=0.320 ac 0.00% Impe Tc=5.0 min CN=65/0	rvious Runoff Depth>0.72" ) Runoff=0.03 cfs 0.019 af
Subcatchment3S (E): Pre-Dev Oregon St	Runoff Area=0.940 ac 90.43% Impe Tc=5.0 min CN=79/98	rvious Runoff Depth>3.05" 3 Runoff=0.72 cfs 0.239 af
Subcatchment4S (E): Pre-Dev Niemeyer Flow Let	Runoff Area=45.390 ac 1.06% Impe ngth=1,550' Tc=39.4 min CN=82/98	rvious Runoff Depth>1.72" Runoff=11.38 cfs 6.507 af
Link 2L (E): Pre-Dev Flow		Inflow=12.81 cfs 7.413 af Primary=12.81 cfs 7.413 af

Total Runoff Area = 56.190 acRunoff Volume = 7.413 afAverage Runoff Depth = 1.58"97.28% Pervious = 54.660 ac2.72% Impervious = 1.530 ac

### Summary for Subcatchment 1S (E): Pre-Dev Polley East

Runoff = 0.83 cfs @ 8.08 hrs, Volume= 0.648 af, Depth> 0.82"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 10-YEAR Rainfall=3.45"

Area (	ac) C	N Des	cription		
8.9	920 6	5 Woo	ods/grass o	omb., Fair,	HSG B
0.2	200 9	8 Pave	ed parking	, HSG B	
0.4	420 9	6 Grav	/el surface	, HSG B	
9.5	540 6	67 Weig	ghted Aver	age	
9.3	340 6	6 97.9	0% Pervio	us Area	
0.2	200 9	98 2.10	% Impervi	ous Area	
Тс	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
5.8	100	0.1000	0.29		Sheet Flow, Sheet Flow
					Grass: Short
5.6	750	0.1000	2.21		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.8	225	0.0200	0.99		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
15.2	1,075	Total			

#### Subcatchment 1S (E): Pre-Dev Polley East



### Summary for Subcatchment 2S (E): Pre-Dev Polley West

Runoff = 0.03 cfs @ 8.02 hrs, Volume= 0.019 af, Depth> 0.72"

8 9 10

0.004 0.002

0 1 2 3 4 5 6 7

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 10-YEAR Rainfall=3.45"

	Area (	(ac) CN	Dese	cription			
*	0.3	320 65	i Woo	ds/grass o	omb., Fair,	, HSG B	
	0.	320 65	i 100.	00% Pervi	ous Area		
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
	5.0					Direct Entry,	
				Subcate	chment 2	S (E): Pre-Dev Polley West	
	0.03				Hydro	ograph	
	0.00						- Runoff
	0.020						
	0.020					Type IA 24-hr	
	0.024					10-YEAR Rainfall=3.45"	
	0.022					$Pupoff \Lambda rog = 0.320 ac$	
	0.02						
	0.018 j			+++	- <b>V</b>	Runoff Volume=0.019 af	
	រុច 0.016 >		· -ii	$\dot{\tau} = -\dot{\tau} = -\dot{\tau} = -\dot{\tau}$		Runoff Depth>0.72"	
	<u>0.014</u>		·	$\frac{1}{1} \frac{1}{1} \frac{1}{1} \frac{1}{1} - \frac{1}{1}$		Tc=50 min	
	0.012			+++			
	0.01				-       		
	0.008			$\frac{1}{1} = -\frac{1}{1} = -\frac{1}{1} = -\frac{1}{1}$			
	0.006	<b>1</b>	· -	1 I I +++-	-		

12 13

Time (hours)

11

14

15 16 17 18 19 20

21 22 23

24

### Summary for Subcatchment 3S (E): Pre-Dev Oregon St

Runoff = 0.72 cfs @ 7.90 hrs, Volume= 0.239 af, Depth> 3.05"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 10-YEAR Rainfall=3.45"

	Area (ac)	) CN	Description		
*	0.850	) 98	Paved Street, I	HSG B	
	0.090	) 79	<50% Grass co	over, Poor,	HSG B
	0.940	96	Weighted Aver	age	
	0.090	) 79	9.57% Perviou	s Area	
	0.850	) 98	90.43% Imper\	∕ious Area	
	Tc Le (min) (1	ngth S feet)	Slope Velocity (ft/ft) (ft/sec)	Capacity (cfs)	Description
	5.0				Direct Entry,
			Subcat	chment :	3S (E): Pre-Dev Oregon St



### Summary for Subcatchment 4S (E): Pre-Dev Niemeyer

Runoff = 11.38 cfs @ 8.14 hrs, Volume= 6.507 af, Depth> 1.72"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 10-YEAR Rainfall=3.45"

Area	(ac) C	N Des	cription		
32.480 79 <50% Grass cover, Poor,					HSG B
0.4	480	98 Pav	ed parking	, HSG D	
12.4	430	89 <50	% Grass c	over, Poor,	HSG D
45.	390	82 Wei	ghted Aver	age	
44.	910	82 98.9	94% Pervio	us Area	
0.4	480	98 1.06	3% Impervi	ous Area	
Тс	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
14.6	100	0.0100	0.11		Sheet Flow, Sheet Flow
					Grass: Short
21.4	1,100	0.0150	0.86		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.4	350	0.0600	1.71		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
39.4	1,550	Total			

#### Subcatchment 4S (E): Pre-Dev Niemeyer



### Summary for Link 2L (E): Pre-Dev Flow

Inflow A	Area	=	56.190 ac,	2.72% Impervious,	Inflow Depth >	1.58" for 10-	YEAR event
Inflow		=	12.81 cfs @	8.07 hrs, Volume	e= 7.413 a	af	
Primar	y	=	12.81 cfs @	8.07 hrs, Volume	e= 7.413 a	af, Atten= 0%,	Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



### Link 2L (E): Pre-Dev Flow

7971 PRE-DEV	Type IA 24	4-hr 25-YEAR Rainfall=3.90"
Prepared by AKS Engineering & Forestry,	LLC	Printed 5/12/2022
HydroCAD® 10.00-22 s/n 01338 © 2018 Hydro(	CAD Software Solutions LLC	Page 20
Time span=0.00- Runoff by SBUH Reach routing by Dyn-Stor-Ind Subcatchment1S (E): Pre-Dev Polley East	24.00 hrs, dt=0.05 hrs, 481 poi I method, Split Pervious/Imper method - Pond routing by Dyr Runoff Area=9.540 ac 2.10%	nts v. h-Stor-Ind method Impervious Runoff Depth>1.07" 36/98 Runoff=1 34 cfs 0 851 af
		50/90 Nunon-1.54 cis 0.051 ai
Subcatchment2S (E): Pre-Dev Polley West	Runoff Area=0.320 ac 0.00% Tc=5.0 min CN	Impervious Runoff Depth>0.97" =65/0 Runoff=0.05 cfs 0.026 af
Subcatchment3S (E): Pre-Dev Oregon St	Runoff Area=0.940 ac 90.43% Tc=5.0 min CN=	Impervious Runoff Depth>3.49" 79/98 Runoff=0.82 cfs 0.273 af
Subcatchment4S (E): Pre-Dev Niemeyer Flow Len	Runoff Area=45.390 ac 1.06% ngth=1,550' Tc=39.4 min CN=82	Impervious Runoff Depth>2.09" 2/98 Runoff=14.32 cfs 7.910 af
Link 2L (E): Pre-Dev Flow		Inflow=16.37 cfs 9.060 af Primary=16.37 cfs 9.060 af

Total Runoff Area = 56.190 acRunoff Volume = 9.060 afAverage Runoff Depth = 1.93"97.28% Pervious = 54.660 ac2.72% Impervious = 1.530 ac

### Summary for Subcatchment 1S (E): Pre-Dev Polley East

Runoff = 1.34 cfs @ 8.06 hrs, Volume= 0.851 af, Depth> 1.07"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

_	Area (	(ac) C	N Des	cription		
8.920 65 Woods/grass comb., Fair,						HSG B
	0.2	200	98 Pav	ed parking	, HSG B	
_	0.4	420	96 Grav	vel surface	, HSG B	
	9.	540 (	67 Wei	ghted Aver	age	
	9.3	340 (	6 97.9	0% Pervio	us Area	
	0.2	200	98 2.10	% Impervi	ous Area	
	Тс	Length	Slope	Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	5.8	100	0.1000	0.29		Sheet Flow, Sheet Flow
						Grass: Short n= 0.150 P2= 2.50"
	5.6	750	0.1000	2.21		Shallow Concentrated Flow, Shallow Concentrated
						Short Grass Pasture Kv= 7.0 fps
	3.8	225	0.0200	0.99		Shallow Concentrated Flow, Shallow Concentrated
_						Short Grass Pasture Kv= 7.0 fps
	4 = 0	4 0 7 5	<b>—</b> · ·			

15.2 1,075 Total

### Subcatchment 1S (E): Pre-Dev Polley East



### Summary for Subcatchment 2S (E): Pre-Dev Polley West

Runoff = 0.05 cfs @ 8.01 hrs, Volume= 0.026 af, Depth> 0.97"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

	Area (	ac)	CN	Desc	cription		
*	0.3	320	65	Woo	ds/grass c	omb., Fair,	, HSG B
	0.3	320	65	100.0	00% Pervi	ous Area	
	Tc (min)	Lengtl (feet	ר )	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
	5.0						Direct Entry,

### Subcatchment 2S (E): Pre-Dev Polley West



### Summary for Subcatchment 3S (E): Pre-Dev Oregon St

Runoff = 0.82 cfs @ 7.90 hrs, Volume= 0.273 af, Depth> 3.49"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

	Area (ac	) CN	Desc	cription			
*	0.850	0 98	Pave	ed Street, I	HSG B		
	0.090	0 79	<50%	6 Grass co	over, Poor,	r, HSG B	
	0.940	0 96	Weig	hted Aver	age		
	0.090	0 79	9.57	% Perviou	s Area		
	0.850	0 98	90.4	3% Imperv	vious Area	a	
	Tc Le (min) (	ength (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	/ Description	
	5.0					Direct Entry,	

### Subcatchment 3S (E): Pre-Dev Oregon St



### Summary for Subcatchment 4S (E): Pre-Dev Niemeyer

Runoff = 14.32 cfs @ 8.13 hrs, Volume= 7.910 af, Depth> 2.09"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

Area	(ac) C	N Des	cription		
32.480 79 <50% Grass cover, Poor,					HSG B
0.4	480	98 Pav	ed parking	, HSG D	
12.4	430	89 <50	% Grass c	over, Poor,	HSG D
45.	390	82 Wei	ghted Aver	age	
44.	910	82 98.9	94% Pervio	us Area	
0.4	480	98 1.06	3% Impervi	ous Area	
Тс	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
14.6	100	0.0100	0.11		Sheet Flow, Sheet Flow
					Grass: Short
21.4	1,100	0.0150	0.86		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.4	350	0.0600	1.71		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
39.4	1,550	Total			

### Subcatchment 4S (E): Pre-Dev Niemeyer



### Summary for Link 2L (E): Pre-Dev Flow

Inflow A	Area	=	56.190 ac,	2.72% Impervious,	Inflow Depth > 1	.93" for 25-YEAR event
Inflow		=	16.37 cfs @	8.07 hrs, Volume	= 9.060 at	:
Primary	У	=	16.37 cfs @	8.07 hrs, Volume	= 9.060 at	, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs



### Link 2L (E): Pre-Dev Flow



# Post-Developed Node Diagram and Area Summary Table




# **Post-Developed 2-yr Storm Event Peak Flow Calculations**

Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 2 Runoff by SBUH method, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S(P): Post-Dev	Runoff Area=6.570 ac   83.56% Impervious   Runoff Depth>2.03" Tc=5.0 min   CN=79/98   Runoff=3.33 cfs  1.112 af
Subcatchment2S(P): Post-Dev	Runoff Area=0.830 ac 100.00% Impervious Runoff Depth>2.27" Tc=5.0 min CN=0/98 Runoff=0.48 cfs 0.157 af
Subcatchment3S(P): Post-Dev	Runoff Area=1.550 ac   85.81% Impervious   Runoff Depth>2.06" Tc=5.0 min   CN=79/98   Runoff=0.80 cfs  0.267 af
Subcatchment4S(P): Post-Dev	Runoff Area=0.550 ac 100.00% Impervious Runoff Depth>2.27" Tc=5.0 min CN=0/98 Runoff=0.32 cfs 0.104 af
Subcatchment5S(P): Post-Dev	Runoff Area=1.340 ac 20.15% Impervious Runoff Depth>1.12" Tc=5.0 min CN=79/98 Runoff=0.33 cfs 0.125 af
Subcatchment6S(P): Post-Dev	Runoff Area=45.390 ac  1.06% Impervious  Runoff Depth>0.99" Flow Length=1,550'  Tc=39.4 min  CN=82/98  Runoff=5.73 cfs  3.736 af
Reach 1R: Rock Creek Outfall	Inflow=6.39 cfs 4.166 af Outflow=6.39 cfs 4.166 af
Pond 1P: Pond	Peak Elev=135.59' Storage=58,108 cf Inflow=4.44 cfs 1.483 af Outflow=0.10 cfs 0.148 af

Total Runoff Area = 56.230 ac Runoff Volume = 5.501 af Average Runoff Depth = 1.17" 84.08% Pervious = 47.280 ac 15.92% Impervious = 8.950 ac

#### Summary for Subcatchment 1S(P): Post-Dev

Runoff = 3.33 cfs @ 7.91 hrs, Volume= 1.112 af, Depth> 2.03"

	Area	(ac)	CN	Des	cription										
*	5. 1.	.490 .080	98 79	Pave <50°	ed parkin % Grass	g, roofs, ł cover, Po	HSG or, H	B SG B							
	6. 1. 5. Tc	.570 .080 .490 Leng	95 79 98 Ith	Weig 16.4 83.5 Slope	ghted Av 4% Perv 6% Impe Velocity	erage ious Area ervious Are	ea ity [	Descri	ption						
	(min)	(fee	et)	(ft/ft)	(ft/sec	) (cf	s) r	)iroct	Entry						
	5.0							meci	<b>L</b> iiti <b>y</b> ,						
					S	Subcatc	hme	nt 1	S(P): I	Post-	Dev				
	ſ					Hy	drogr	aph					<u> </u>		
						33 cfs		<b>R</b>	2-YI Ru tuno R	EAR noff ff Vo uno	Ty Rai Are olum	pe IA nfall: a=6.{ ne=1. epth> Tc=5	24-  =2.50 570 a 112 >2.03	hr D" ac af 3" in	- Runoff
	1 - - 0 0	1	2 3	4 5	6 7	8 9 10	11 Time	12 13 (hours)	14 15	16 1	7 18	<b>CN</b> =	<b>79/</b> 9	23 24	L

#### Summary for Subcatchment 2S(P): Post-Dev

Runoff = 0.48 cfs @ 7.90 hrs, Volume= 0.157 af, Depth> 2.27"

Area (ac) CN Description												
0.830 98 Paved roads w/curbs & set	wers, HSG D											
0.830 98 100.00% Impervious Area												
Tc Length Slope Velocity Capacity (min) (feet) (ft/ft) (ft/sec) (cfs)	Description											
5.0	Direct Entry,											
Subcatchment 2S(P): Post-Dev												
0.52 0.52 0.53 0.48 0.48 0.48 0.48 0.44 0.42 0.42 0.42 0.42 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5												



0

2

#### Summary for Subcatchment 3S(P): Post-Dev

Runoff = 0.80 cfs @ 7.91 hrs, Volume= 0.267 af, Depth> 2.06"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 2-YEAR Rainfall=2.50"

	Area	(ac)	CN	Des	cription							
*	1.	330	98	B Pave	ed parking	, roofs, HS	GВ					
	0.	220	79	<509	% Grass c	over, Poor,	HSG E	3				
	1.	550	95	i Weig	ghted Aver	rage						
	0.	220	79	) 14.1	9% Pervio	us Area						
	1.	330	98	85.8	1% imperv	lious Area						
(	Tc min)	Leng (fee	th et)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Desc	ription				
	5.0						Direc	t Entry,				
					Si	ubcatchn	nent 3	S(P): F	ost-I	Dev		
	-					i iyuru	graph	<del>, , , ,</del>	1 1			
	0.85	 	-  ·		<mark>  0.8(</mark>	) cfs	    		- + + 			 - Runoff
	0.8		-  ·	-	++	⊢−−⊢−−⊢ ! !			- + +	+		
	0.75		-' ·				'' 		·           	Iype	<b>IA 24-nr</b>	
	0.7-							2-YE	AR	Rainfa	ll=2.50"	
	0.00		 				     	Dırr	ר חירו	Aroa-1	550-20	
	0.55						   <u> </u> <u>-</u>				1.000 ac	
(	0.5		-¦ ·			+ 		Runof	f Vo	olume=	0.267 af	
1	0.45				+	 +	 	<b>R</b>	uno	ff Dent	h>2 06"	
Ē	<b>2</b> 0.4		-i ·	-		+		-				
	0.35	<u> </u>	_!				 	//	· _ <u> </u> <u> </u>	I C=	5.0 min	
	0.3-	¦	-i ·	-i	i	т - т	i i I I	i		C	N=79/98	
	0.25		-  ·		+	+	 		- + +	++		
	0.2											
	0.15		·									
	0.05-		-			· · · · · · · · · · · · · · · · · · ·	, ,     	, , , ,         	, , , , , , , , , , , , , , , , , , ,	++		

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Time (hours)

### Summary for Subcatchment 4S(P): Post-Dev

Runoff = 0.32 cfs @ 7.90 hrs, Volume= 0.104 af, Depth> 2.27"

Area	(ac) CN	Description												
0.	550 98	3 Water Surface	e, HSG B											
0.	550 98	3 100.00% Imp	ervious Area	a										
Tc (min)	Length (feet)	Slope Velocity (ft/ft) (ft/sec)	Capacity (cfs)	Description										
5.0				Direct Entry,										
Subcatchment 4S(P): Post-Dev														
-	<b>.</b>	· · · · · ·	Hydro	ograph										
0.34			32 cfs											
0.32			<b>X</b>											
0.3	 		· +	Type IA 24-hr										
0.28				2-YEAR Rainfall=2 50"										
0.26														
0.24				Runoff Area=0.550 ac										
0.22 (c) 0.2	I I 	 -!!!!!-		Runoff Volume=0.104 af										
រុ ១ ០.18			-+	Pupoff Dopth>2 27"										
<b>ô</b> <u><u></u> 0.16</u>			- +											
0.14														
0.12			- + - + +	CN=0/98										
0.1-	i i I I	-iiiiiiiiiii	- <del> </del> <b> </b>											
0.08			-+											
0.06														
0.04														
0-0-			; ; ; ;											
	0 1 2	3 4 5 6 7	8 9 10 1 <b>Ti</b>	in 12 13 14 15 16 17 18 19 20 21 22 23 24 ime (hours)										

#### Summary for Subcatchment 5S(P): Post-Dev

Runoff = 0.33 cfs @ 7.98 hrs, Volume= 0.125 af, Depth> 1.12"

Area (ac) CN Description	
0.270 98 Paved parking, HSG B	
1.070 79 <50% Grass cover, Poor, HSG B	
1.340 83 Weighted Average	
0.270 98 20.15% Impenyious Area	
0.270 90 20.13% Impervious Alea	
Tc Length Slope Velocity Capacity Description	
(min) (feet) (ft/ft) (ft/sec) (cfs)	
5.0 Direct Ent	ry,
Subcatchment 5S(P)	: Post-Dev
Hydrograph	
0.36	
0.34	
0.32	
0.3	
0.28	YEAR Rainfall=2.50"
	$upoff \Lambda roa-1.240$ oo
ê 02	off Volume=0.125 af
$\overline{0}$ $0.2$	Pupoff Donth 1-12"
0.14	Tc=5.0 min
0.12	
0.1	
0.08	
0.06	
0.04	
0.02	
$0^{-1}$	
Time (hours)	

#### Summary for Subcatchment 6S(P): Post-Dev

Runoff = 5.73 cfs @ 8.21 hrs, Volume= 3.736 af, Depth> 0.99"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 2-YEAR Rainfall=2.50"

Area (	ac) C	N Des	cription		
32.4	480	79 <50	% Grass c	over, Poor,	HSG B
0.4	480	98 Pav	ed parking	, HSG D	
12.4	430	39 <50	% Grass c	over, Poor,	HSG D
45.3	390	32 Wei	ghted Aver	age	
44.9	910	32 98.9	4% Pervio	us Area	
0.4	480	98 1.06	3% Impervi	ous Area	
Tc	Length	Slope	Velocity	Capacity	Description
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
14.6	100	0.0100	0.11		Sheet Flow, Sheet Flow
					Grass: Short n= 0.150 P2= 2.50"
21.4	1,100	0.0150	0.86		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
3.4	350	0.0600	1.71		Shallow Concentrated Flow, Shallow Concentrated
					Short Grass Pasture Kv= 7.0 fps
39.4	1,550	Total			

Subcatchment 6S(P): Post-Dev



#### Summary for Reach 1R: Rock Creek Outfall

Inflow Ar	ea =	56.230 ac, 1	5.92% Impervious,	Inflow Depth > 0.8	89" for 2-YEAR event
Inflow	=	6.39 cfs @	8.07 hrs, Volume	= 4.166 af	
Outflow	=	6.39 cfs @	8.07 hrs, Volume	= 4.166 af,	Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2



### Reach 1R: Rock Creek Outfall

#### Summary for Pond 1P: Pond

Inflow Area	ı =	8.670 ac, 8	85.01% Imperv	vious, Inflow	Depth > 2	.05" for	2-YEAR event
Inflow	=	4.44 cfs @	7.91 hrs, V	olume=	1.483 af	-	
Outflow	=	0.10 cfs @	24.00 hrs, V	olume=	0.148 af	f, Atten= 9	98%, Lag= 965.4 min
Primary	=	0.10 cfs @	24.00 hrs, V	olume=	0.148 af	-	-

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 135.59' @ 24.00 hrs Surf.Area= 19,033 sf Storage= 58,108 cf

Plug-Flow detention time= 621.0 min calculated for 0.148 af (10% of inflow) Center-of-Mass det. time= 161.2 min (845.0 - 683.8)

Volume	Inve	rt Avail.Sto	rage Storage	Description					
#1	132.0	0' 111,00	09 cf Custom	Stage Data (Pri	smatic)Listed below				
Elevatio	on s	Surf.Area	Inc.Store	Cum.Store					
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)					
132.0	00	13,337	0	0					
133.0	00	14,863	14,100	14,100					
134.0	00	16,432	15,648	29,748					
135.0	00	18,051	17,242	46,989					
136.0	00	19,718	18,885	65,874					
137.0	00	23,200	21,459	87,333					
138.0	00	24,152	23,676	111,009					
Device	Routing	Invert	Outlet Device	S					
#1	Primary	131.00'	18.0" Vert. 18	B" Pond Outlet	C= 0.620				
#2	Device 1	136.70'	4.2" Horiz. 5-	year Orifice C=	0.620				
			Limited to wei	r flow at low head	ls				
#3	Device 1	137.25'	6.0" Horiz. 10	)/25-year Orifice	C= 0.620				
			Limited to wei	r flow at low head	ls				
#4	Device 1	131.00'	1.3" Horiz. W	<b>Q Orifice</b> $C=0$ .	620 Limited to weir flow at low heads				
#5	Device 4	132.00'	27.0" x 24.0"	Horiz. WQ Inlet	(Bottom) C= 0.600				
		407.00	Limited to weir flow at low heads						
#6	Device 1	137.99'	<b>Iniet (10p)</b> C= 0.600						
			Limited to wel	r flow at low head	IS				

Primary OutFlow Max=0.10 cfs @ 24.00 hrs HW=135.59' TW=0.00' (Dynamic Tailwater)

-1=18" Pond Outlet (Passes 0.10 cfs of 17.23 cfs potential flow)

-2=5-year Orifice (Controls 0.00 cfs)

-3=10/25-year Orifice (Controls 0.00 cfs)

-4=WQ Orifice (Orifice Controls 0.10 cfs @ 10.66 fps)

**5=WQ Inlet (Bottom)** (Passes 0.10 cfs of 41.05 cfs potential flow)

-6=Overflow Inlet (Top) (Controls 0.00 cfs)

Pond 1P: Pond





# **Post-Developed 5-yr Storm Event Peak Flow Calculations**

#### Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 2 Runoff by SBUH method, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S(P): Post-Dev	Runoff Area=6.570 ac 83.56% Impervious Runoff Depth>2.60" Tc=5.0 min CN=79/98 Runoff=4.25 cfs 1.423 af
Subcatchment2S(P): Post-Dev	Runoff Area=0.830 ac  100.00% Impervious  Runoff Depth>2.86" Tc=5.0 min  CN=0/98  Runoff=0.60 cfs  0.198 af
Subcatchment3S(P): Post-Dev	Runoff Area=1.550 ac 85.81% Impervious Runoff Depth>2.64" Tc=5.0 min CN=79/98 Runoff=1.02 cfs 0.340 af
Subcatchment4S(P): Post-Dev	Runoff Area=0.550 ac  100.00% Impervious  Runoff Depth>2.86" Tc=5.0 min  CN=0/98  Runoff=0.40 cfs  0.131 af
Subcatchment5S(P): Post-Dev	Runoff Area=1.340 ac 20.15% Impervious Runoff Depth>1.58" Tc=5.0 min CN=79/98 Runoff=0.48 cfs 0.177 af
Subcatchment6S(P): Post-Dev	Runoff Area=45.390 ac 1.06% Impervious Runoff Depth>1.44" Flow Length=1,550' Tc=39.4 min CN=82/98 Runoff=9.20 cfs 5.451 af
Reach 1R: Rock Creek Outfall	Inflow=10.15 cfs 5.986 af Outflow=10.15 cfs 5.986 af
Pond 1P: Pond	Peak Elev=136.45' Storage=75,490 cf Inflow=5.66 cfs 1.895 af Outflow=0.11 cfs 0.161 af

Total Runoff Area = 56.230 ac Runoff Volume = 7.720 af Average Runoff Depth = 1.65" 84.08% Pervious = 47.280 ac 15.92% Impervious = 8.950 ac

#### Summary for Subcatchment 1S(P): Post-Dev

Runoff = 4.25 cfs @ 7.91 hrs, Volume= 1.423 af, Depth> 2.60"

A	rea	(ac)	CN	Des	criptior	۱														
*	5.	.490	98	Pav	ed park	king,	roofs,	HSC	G B	п										
	6. 1. 5.	.570 .080 .490	95 79 98	Vei 16.4 83.5	<u>% Gras</u> ghted <i>A</i> I4% Pe 56% Im	Avera Ivera Irviou pervi	is Are	a Irea	<u>חספו</u>	<u>D</u>										
(n	Tc nin)	Leną (fe	gth et)	Slope (ft/ft)	Veloo (ft/se	city ∋c)	Capa (	city cfs)	Desc	riptic	on									
	5.0								Dire	ct Er	ntry,									
						Su	bcat	chm	nent <sup>2</sup>	1S(F	P): P	ost-	Dev	,						
							H	lydro	graph											
Flow (cfs)	4 - - - - - - - - - - - - - - - - - -					4.25 c	fs			5 Ru	-YE Run Ru	AR off JNO	Tı Ra Ar Dlu ff [	ype ainf ea= me: Dep Tc C	= IA all= =6.5 =1.4 oth> =5. CN=	24 =3.1 570 423 •2.6 0 n =79/	-hr 10" ac 3 af 30" nin /98		- Runoff	
	- 0-+ 0	1	2 3	4 5	6 7	7 8	9 1	0 11 <b>Tin</b>	12 1 ne (hou	13 14 rs)	15	16 1	7 18	19	20 2	21 22	23	24		

#### Summary for Subcatchment 2S(P): Post-Dev

Runoff = 0.60 cfs @ 7.90 hrs, Volume= 0.198 af, Depth> 2.86"

Area	(ac) CN	Descripti	on								
0.	830 98	B Paved ro	ads w/c	urbs & se	wers, H	SG D					
0.	830 98	3 100.00%	Impervi	ious Area	l						
Tc (min)	Length (feet)	Slope Vel (ft/ft) (ft/	ocity ( /sec)	Capacity (cfs)	Descrip	otion					
5.0					Direct	Entry,					
			Sub	ocatchm	nent 2S	6(P): Po	ost-De	€V			
				Hydro	graph						_
0.65					-		- + + - 	-++- 	-     		- Runoff
0.6			+ + -	<mark>9</mark>        - 	- 	 	- + + -	- + + - 		 	
0.55					-		- + + -	Гуре	-IA 2	24-hr	1
0.5	! ! !					5-YE		Rainf	all=3	8.10"	1
0.45			+ + -		       -	- Run	∽ff-∆	roa=	0 83	<u> </u>	1
0.4-			      + + -		📥						1
(cls)			     - + - + -		<b>K</b>	unoti		ume=	=0.15	e ar	1
<b>NO</b>						Ru	inoff	Dep	th>2	86"	
Ξ 0.3								Тс	=5.0	min	
0.25-					!!-       					0/08	1
0.2			+	·	-       		- + + -			U/ JU	1
0.15					ll- I I					 	1
0.1-			+ + -				- + + -	- L L - I I			
0.05				L L	_			- L L -			
0-		3 4 5 6	7 8	9 10 1	1 12 13	14 15	16 17	18 10	20 21	22 23 2	4
	0 1 2	5 7 5 0	1 0	Ti	me (hours)	17 13	10 17	10 13	20 21	<i>LL L</i> U <i>L</i>	<b>T</b>

#### Summary for Subcatchment 3S(P): Post-Dev

Runoff = 1.02 cfs @ 7.91 hrs, Volume= 0.340 af, Depth> 2.64"

А	rea	(ac)	CN	Des	cription									
*	1.	330	98	Pave	ed parking	, roofs, HS	GB							
	0.	220	79	<50	<u>% Grass c</u>	over, Poor,	HSG E	3						
	1.	550 220	95 70		ghted Ave	rage								
	0. 1	330	98	85.8	1% Imper									
		000	00	00.0		1000 / 100								
	Тс	Lengt	th	Slope	Velocity	Capacity	Descr	ription						
(m	in)	(fee	t)	(ft/ft)	(ft/sec)	(cfs)								
ł	5.0						Direc	t Entry,						
					S	ubcatchn	nent 3	S(P): P	ost-De	v				
						Hydro	ograph							
					1.02	<u>cfs</u>								- Runoff
	1-									Гуре	e IA	24-ł	nr	
								5-YE		ain	fall=	-3.10	)''	
	-							Dun	مff ۸	rog	-1 5	50 9		
								Ruii		lea.	-1.5	ju a		
fs)							i F	Runof	f Volu	ime	=0.3	340 a	af	
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Flo														
											C=5.	u mi	n	
											CN=	79/9	8	
	-													
	0-	1				Q 10 1	<del></del>	····	16 17	18 10	20 2		23 24	L
	0	. 2	_ 0	- J	5 / 6	Ti	me (hours	;) i i i i i i i i i i i i i i i i i i i	.0 17	10 19	20 2	. 22	20 24	

#### Summary for Subcatchment 4S(P): Post-Dev

Runoff = 0.40 cfs @ 7.90 hrs, Volume= 0.131 af, Depth> 2.86"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 5-YEAR Rainfall=3.10"

Area	(ac) CN	l Desc	cription								
0.	550 98	8 Wate	er Surface	, HSG B							
0.	550 98	3 100.	00% Impe	rvious Area	1						
			•								
Тс	Length	Slope	Velocity	Capacity	Descrip	otion					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)							
5.0					Direct	Entry,					
			Si	uhcatchn	ont 19	(P)· P	oet_D				
			51			(Г). Г	031-D	CV			
0 44-					grapn					] ]	
0.42	 	 -		) cfs		 	- + + -	+ +		 	- Runoff
0.4				+ +	-		- + + -	++			·
0.38							- + + -	Type	e IA	24-hr	
0.36					''-	╶╶╎╴╴┤╴	·		- <u></u>		·
0.34						5-YE	AR I	Rain	tali=	3.10"	
0.3	 	 -	+	I I I I + ⊢ ⊢ I		Run	off /	\roa	=^-5	50 ac	
0.28				+					-0.0		
<sup>0.26</sup> و					R	unof	f Vol	ume	e=0.1	31 af	
<u>ບ</u> 0.24		-iii -iii						£ Day		0.00"	
0.22 0.2	 		+						pru>	2.00	
0.18				+			- + + -		c=5.(	0 min-	
0.16				+							
0.14				+ +					-GN	=0/98	· -
0.12								+ +			
0.08	 			 +			- + + -	+ +			
0.06				+			- <u>+</u> + -				
0.04		+									-
0.02						'' -	- <u>-</u> <u>-</u> - 		''	'' 	
0-	0 1 2	3 4 5	5 6 7	8 9 10 1	1 12 13	14 15	16 17	18 19	20 2	1 22 23	24

Time (hours)

#### Summary for Subcatchment 5S(P): Post-Dev

Runoff = 0.48 cfs @ 7.98 hrs, Volume= 0.177 af, Depth> 1.58"

Area	(ac) CN	N Des	cription							
0	.270 98	8 Pave	ed parking	, HSG B						
1	.070 79	9 <50	% Grass c	over, Poor,	HSG B					
1.	.340 83	3 Wei	ghted Ave	rage						
1	.070 73	9 79.8 9 20.1	5% Pervic	us Area						
U	.270 90	5 20.1	5% imper	vious Area						
Тс	Length	Slope	Velocity	Capacity	Descr	iption				
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)		•				
5.0					Direc	t Entry,				
			S	ubcatchn	nent 5	S(P): Post	t-Dev			
				Hydro	graph					
0.54 0.52		-!!	· <u></u>	<u>+</u>		!		L L L	l l	
0.5			<mark>0.4</mark>	8 cfs	 		-++	+	iii	- Runoff
0.46		-	+ +			+-			24_hr	
0.44				+ <u> </u> <u> </u>	''   		╡┸╎╹╶╎╌ ╴╴╴╴╼╾╴╴╼			
0.4						-5-YEAI	Rall	ntall=:	3.10''	
0.38			+ + - + 			Runof	f Area	a=1.34	10 ac	
0.34 0.32		-11		т — — — — — — — — — — — — — — — — — — —					77-~'£'	
0.3					<b>F</b> i	Kunon v	oium	e-v.i	11_dl	
<b>8</b> 0.26			· +	+	 	Run	off De	epth>'	1.58"	
0.24 E		_			L//   		- + + - <b>T</b>	~=5 f	) min -	
0.2				<u>+</u> - + <u>+</u>				C-J.U		
0.16								CN=7	79/98	
0.14			i		ii	iii	- <del>+</del> <del>+</del>		iii	
0.1			<b>-</b>   <b>/</b>			~		+		
0.08 <sup>.</sup> 0.06 <sup>.</sup>			+				-++ -++		' ' 	
0.04	<b>1</b>					/				
0.02	<b>1</b>									
	U 1 2	3 4 5	<b>р 6</b> 7	δ 9 10 1 <b>Ti</b>	1 12 13 me (hours	3 14 15 16 <b>s)</b>	17 18	19 20 21	22 23 24	<i>•</i>

#### Summary for Subcatchment 6S(P): Post-Dev

Runoff = 9.20 cfs @ 8.16 hrs, Volume= 5.451 af, Depth> 1.44"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 5-YEAR Rainfall=3.10"

	Area (	(ac) (	CN	Desc	ription		
	32.4	480	79	<50%	6 Grass co	over, Poor,	HSG B
	0.4	480	98	Pave	d parking	, HSG D	
	12.4	430	89	<50%	6 Grass co	over, Poor,	HSG D
	45.	390	82	Weig	hted Aver	age	
	44.	910	82	98.94	1% Pervio	us Area	
	0.4	480	98	1.069	% Impervi	ous Area	
	Тс	Length	S	lope	Velocity	Capacity	Description
_	(min)	(feet)	(	(ft/ft)	(ft/sec)	(cfs)	
	14.6	100	0.0	0100	0.11		Sheet Flow, Sheet Flow
							Grass: Short n= 0.150 P2= 2.50"
	21.4	1,100	0.0	)150	0.86		Shallow Concentrated Flow, Shallow Concentrated
							Short Grass Pasture Kv= 7.0 fps
	3.4	350	0.0	)600	1.71		Shallow Concentrated Flow, Shallow Concentrated
_							Short Grass Pasture Kv= 7.0 fps

39.4 1,550 Total

#### Subcatchment 6S(P): Post-Dev



#### Summary for Reach 1R: Rock Creek Outfall

Inflow A	rea =	56.230 ac, 1	5.92% Impervious,	Inflow Depth > 1.2	28" for 5-YEAR event
Inflow	=	10.15 cfs @	8.07 hrs, Volume	= 5.986 af	
Outflow	=	10.15 cfs @	8.07 hrs, Volume	= 5.986 af,	Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2



### Reach 1R: Rock Creek Outfall

#### Summary for Pond 1P: Pond

Inflow Area	=	8.670 ac, 8	85.01% Impe	ervious,	Inflow Dept	h > 2.6	62" for	5-YEA	R event
Inflow	=	5.66 cfs @	7.91 hrs,	Volume	= 1.	.895 af			
Outflow	=	0.11 cfs @	24.00 hrs,	Volume	= 0.	161 af,	Atten= 9	98%, La	ag= 965.6 min
Primary	=	0.11 cfs @	24.00 hrs,	Volume	= 0.	161 af			

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 136.45' @ 24.00 hrs Surf.Area= 21,278 sf Storage= 75,490 cf

Plug-Flow detention time= 649.9 min calculated for 0.161 af (8% of inflow) Center-of-Mass det. time= 168.3 min (846.2 - 677.8)

Volume	Inve	rt Avail.Sto	rage Storage	Description	
#1	132.00	D' 111,00	09 cf Custom	Stage Data (Prisr	natic)Listed below
Elevatio	on s	Surf.Area	Inc.Store	Cum.Store	
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)	
132.0	00	13,337	0	0	
133.0	00	14,863	14,100	14,100	
134.0	00	16,432	15,648	29,748	
135.0	00	18,051	17,242	46,989	
136.0	00	19,718	18,885	65,874	
137.0	00	23,200	21,459	87,333	
138.0	00	24,152	23,676	111,009	
Device	Routing	Invert	Outlet Devices	3	
#1	Primary	131.00'	18.0" Vert. 18	" Pond Outlet C:	= 0.620
#2	Device 1	136.70'	4.2" Horiz. 5-	year Orifice C= 0	0.620
			Limited to weir	flow at low heads	
#3	Device 1	137.25'	6.0" Horiz. 10	25-year Orifice	C= 0.620
			Limited to weir	flow at low heads	
#4	Device 1	131.00'	1.3" Horiz. W	Q Orifice C= 0.62	20 Limited to weir flow at low heads
#5	Device 4	132.00'	27.0" x 24.0"	Horiz. WQ Inlet (E	<b>3ottom)</b> C= 0.600
			Limited to weir	flow at low heads	
#6	Device 1	137.99'	27.0" x 24.0"	Horiz. Overflow In	nlet (Top) C= 0.600
			Limited to weir	flow at low heads	

Primary OutFlow Max=0.11 cfs @ 24.00 hrs HW=136.45' TW=0.00' (Dynamic Tailwater)

-1=18" Pond Outlet (Passes 0.11 cfs of 19.06 cfs potential flow)

-2=5-year Orifice (Controls 0.00 cfs)

-3=10/25-year Orifice (Controls 0.00 cfs)

-4=WQ Orifice (Orifice Controls 0.11 cfs @ 11.61 fps)

**5=WQ Inlet (Bottom)** (Passes 0.11 cfs of 45.70 cfs potential flow)

-6=Overflow Inlet (Top) (Controls 0.00 cfs)

Pond 1P: Pond





# **Post-Developed 10-yr Storm Event Peak Flow Calculations**

#### Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 2 Runoff by SBUH method, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S(P): Post-Dev	Runoff Area=6.570 ac   83.56% Impervious   Runoff Depth>2.93" Tc=5.0 min   CN=79/98   Runoff=4.79 cfs  1.606 af
Subcatchment2S(P): Post-Dev	Runoff Area=0.830 ac 100.00% Impervious Runoff Depth>3.21" Tc=5.0 min CN=0/98 Runoff=0.67 cfs 0.222 af
Subcatchment3S(P): Post-Dev	Runoff Area=1.550 ac 85.81% Impervious Runoff Depth>2.97" Tc=5.0 min CN=79/98 Runoff=1.15 cfs 0.384 af
Subcatchment4S(P): Post-Dev	Runoff Area=0.550 ac 100.00% Impervious Runoff Depth>3.21" Tc=5.0 min CN=0/98 Runoff=0.44 cfs 0.147 af
Subcatchment5S(P): Post-Dev	Runoff Area=1.340 ac 20.15% Impervious Runoff Depth>1.86" Tc=5.0 min CN=79/98 Runoff=0.58 cfs 0.208 af
Subcatchment6S(P): Post-Dev	Runoff Area=45.390 ac  1.06% Impervious  Runoff Depth>1.72" Flow Length=1,550'  Tc=39.4 min  CN=82/98  Runoff=11.38 cfs  6.507 af
Reach 1R: Rock Creek Outfall	Inflow=12.50 cfs 7.131 af Outflow=12.50 cfs 7.131 af
Pond 1P: Pond	Peak Elev=136.87' Storage=84,634 cf Inflow=6.38 cfs 2.137 af Outflow=0.31 cfs 0.194 af
<b>T</b> ( ) <b>D</b> ( ( )	

Total Runoff Area = 56.230 ac Runoff Volume = 9.074 af Average Runoff Depth = 1.94" 84.08% Pervious = 47.280 ac 15.92% Impervious = 8.950 ac

#### Summary for Subcatchment 1S(P): Post-Dev

Runoff = 4.79 cfs @ 7.91 hrs, Volume= 1.606 af, Depth> 2.93"

Ar	ea	(ac)	CN	Des	cription											
*	5.	490	98	Pav	ed park	ing, re	oofs, HS	GΒ								
	1.	080	79	<50	% Ġras	s cov	er, Poor,	HSG	В							
	6.	570	95	Wei	ghted A	verag	je									
	1.	080	79	16.4	4% Pe	rvious	Area									
	5.	490	98	83.5	56% Imj	pervio	us Area									
	-			0				-								
(100)		Leng	th	Slope	Veloc	ity C		Desc	criptio	n						
<u>(m</u>	<u>n)</u>	(lee	el)	(11/11)	(II/SE	ec)	(CIS)	Dive		·						
5	0.0							Dire	CtEn	try,						
						Sub	catchr	nent	1S(P	): Po	ost-D	)ev				
							Hydro	graph		,						
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	4-						+ + +	+	10-	YE/	\R-	Rai	nfall	=3.4	45"	-
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	5	•	_ 0	. 0	÷ ,		Ti	me (hou	rs)		,			<b>_</b>		

### Summary for Subcatchment 2S(P): Post-Dev

Runoff = 0.67 cfs @ 7.90 hrs, Volume= 0.222 af, Depth> 3.21"



#### Summary for Subcatchment 3S(P): Post-Dev

Runoff = 1.15 cfs @ 7.91 hrs, Volume= 0.384 af, Depth> 2.97"

Area	(ac) CN	Des	cription							
* 1.	.330 98	B Pave	ed parking	, roofs, HS	GΒ					
0	.220 79	9 <509	% Grass c	over, Poor,	HSG B					
1	.550 95	5 Wei	ghted Ave	age						
0.	.220 79	9 14.1	9% Pervic	us Area						
1	.330 98	8 85.8	1% Imper	lous Area						
Тс	l enath	Slope	Velocity	Canacity	Description					
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	Decemption					
5.0				X /	Direct Entr	ry,				
			S	ubcatchn	ent 3S(P)	· Post-F	)ev			
				Hydro	graph					
]							1 1			1
-			<mark>1.15</mark>	<u>cfs</u>						- Runoff
							Tyne	14 2	4_hr	1
1-		 					Турс		·	
					10-1	<b>YEAR</b>	Rainta	all=3	.45"	1
					R	unoff	Area=	1.55	0 ac	3
-					<b>D</b>			-0 20		1
cfs)					Run	οπ νο	iume-	-0.30	94 at	1
NO I						Runof	ff Dep	th>2	.97"	1
Ĕ							Ta	- 5 0	min	1
							IC	-5.0		1
-							C	N=7	9/98	
0-		3 1 5					18 10	20 21	22 22 6	
U		5 4 5	0 / 0	, s io i Tir	ne (hours)	10 10 17	10 19	20 21	22 2J 2	7

#### Summary for Subcatchment 4S(P): Post-Dev

Runoff = 0.44 cfs @ 7.90 hrs, Volume= 0.147 af, Depth> 3.21"

Area (ac	;) CI	N Dese	cription								
0.550	09	8 Wate	er Surface,	, HSG B							
0.550	0 9	8 100.	00% Impe	rvious Area	a						
Tc Le (min) (	Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)										
5.0					Direct Entry,						
Subcatchment 4S(P): Post-Dev											



#### Summary for Subcatchment 5S(P): Post-Dev

Runoff = 0.58 cfs @ 7.97 hrs, Volume= 0.208 af, Depth> 1.86"

Area	(ac) CN	Des	cription						
0.	270 98 070 79	B Pave	ed parking	, HSG B	HSG B				
1. 1. 1. 0.	340 83 070 79 270 98	3 Weig 3 79.8 3 20.1	ghted Aver 5% Pervio 5% Imperv	rage us Area <i>v</i> ious Area					
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
5.0					Direct Entry,				
			Si	ubcatchm	nent 5S(P): P	ost-De	ev.		
	· · · · · ·			Hydro	graph				
0.6- 0.55 0.45 0.4- (5) 0.35 0.35 0.25 0.25 0.2- 0.15- 0.1-					10-YE Rur Runof	AR R noff A ff Volu unoff	Type IA ainfall= rea=1.3 ume=0. Depth> Tc=5 CN=	24-hr =3.45" 340 ac 208 af >1.86" .0 min =79/98	- Runoff
0.05-	0 1 2	3 4 5	5 6 7	8 9 10 1 Ti	1 12 13 14 15 me (hours)	16 17	18 19 20	21 22 23 24	ţ

#### Summary for Subcatchment 6S(P): Post-Dev

Runoff = 11.38 cfs @ 8.14 hrs, Volume= 6.507 af, Depth> 1.72"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 10-YEAR Rainfall=3.45"

	Area	(ac) C	CN De	scription		
	32.	480	79 <5	0% Grass c	over, Poor,	HSG B
	0.4	480	98 Pa	ved parking	, HSG D	
	12.	430	89 <5	0% Grass c	over, Poor,	HSG D
	45.	390	82 We	eighted Ave	rage	
	44.	910	82 98.	94% Pervic	ous Area	
	0.4	480	98 1.0	6% Impervi	ous Area	
	Тс	Length	Slope	e Velocity	Capacity	Description
_	(min)	(feet)	(ft/ft	) (ft/sec)	(cfs)	
	14.6	100	0.0100	0.11		Sheet Flow, Sheet Flow
						Grass: Short n= 0.150 P2= 2.50"
	21.4	1,100	0.0150	0.86		Shallow Concentrated Flow, Shallow Concentrated
						Short Grass Pasture Kv= 7.0 fps
	3.4	350	0.0600	) 1.71		Shallow Concentrated Flow, Shallow Concentrated
						Short Grass Pasture Kv= 7.0 fps

39.4 1,550 Total

#### Subcatchment 6S(P): Post-Dev



#### Summary for Reach 1R: Rock Creek Outfall

Inflow A	Area =	56.230 ac, 1	5.92% Impervious,	Inflow Depth >	1.52	2" for 10-YEAR event
Inflow	=	12.50 cfs @	8.06 hrs, Volume	= 7.131 a	af	
Outflow	/ =	12.50 cfs @	8.06 hrs, Volume	= 7.131 a	af, /	Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2



### Reach 1R: Rock Creek Outfall

#### Summary for Pond 1P: Pond

Inflow Area	=	8.670 ac, 8	5.01% Imperv	vious, Inflow D	Depth >	2.96" fo	r 10-YE	AR event
Inflow	=	6.38 cfs @	7.91 hrs, Vo	olume=	2.137 a	af		
Outflow	=	0.31 cfs @	24.00 hrs, Vo	olume=	0.194 a	af, Atten=	95%, L	_ag= 965.6 min
Primary	=	0.31 cfs @	24.00 hrs, Vo	olume=	0.194 a	af		

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 136.87' @ 24.00 hrs Surf.Area= 22,762 sf Storage= 84,634 cf

Plug-Flow detention time= 721.6 min calculated for 0.193 af (9% of inflow) Center-of-Mass det. time= 244.4 min (919.5 - 675.1)

Volume	Inve	rt Avail.Sto	rage Storage	Description	
#1	132.00	)' 111,00	9 cf Custom	Stage Data (Pri	smatic)Listed below
Elevatio	on S	Surf.Area	Inc.Store	Cum.Store	
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)	
132.0	00	13,337	0	0	
133.0	00	14,863	14,100	14,100	
134.0	00	16,432	15,648	29,748	
135.0	00	18,051	17,242	46,989	
136.0	00	19,718	18,885	65,874	
137.0	00	23,200	21,459	87,333	
138.0	00	24,152	23,676	111,009	
Device	Routing	Invert	Outlet Device	S	
#1	Primary	131.00'	18.0" Vert. 18	B" Pond Outlet	C= 0.620
#2	Device 1	136.70'	4.2" Horiz. 5-	year Orifice C=	0.620
			Limited to wei	r flow at low head	ds
#3	Device 1	137.25'	6.0" Horiz. 10	)/25-year Orifice	C= 0.620
			Limited to wei	r flow at low head	ds
#4	Device 1	131.00'	1.3" Horiz. W	Q Orifice C= 0.	620 Limited to weir flow at low heads
#5	Device 4	132.00'	27.0" x 24.0"	Horiz. WQ Inlet	(Bottom) C= 0.600
	<b>.</b>	407.001	Limited to wei	r flow at low head	
#6	Device 1	137.99	27.0" X 24.0"	Horiz. Overflow	(Iniet (Iop) C= 0.600
			Limited to wei	r flow at low head	15

Primary OutFlow Max=0.31 cfs @ 24.00 hrs HW=136.87' TW=0.00' (Dynamic Tailwater)

-1=18" Pond Outlet (Passes 0.31 cfs of 19.90 cfs potential flow)

2=5-year Orifice (Orifice Controls 0.20 cfs @ 2.08 fps)

-3=10/25-year Orifice (Controls 0.00 cfs)

-4=WQ Orifice (Orifice Controls 0.11 cfs @ 12.06 fps)

**5=WQ Inlet (Bottom)** (Passes 0.11 cfs of 47.84 cfs potential flow)

-6=Overflow Inlet (Top) (Controls 0.00 cfs)



12 13

Time (hours)

14 15

16 17 18

19

20 21 22

23 24

2

0 1

3 4 5

6 7

9 10 11

8

Pond 1P: Pond



# **Post-Developed 25-yr Storm Event Peak Flow Calculations**

#### Time span=0.00-24.00 hrs, dt=0.05 hrs, 481 points x 2 Runoff by SBUH method, Split Pervious/Imperv. Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Subcatchment1S(P): Post-Dev	Runoff Area=6.570 ac 83.56% Impervious Runoff Depth>3.37" Tc=5.0 min CN=79/98 Runoff=5.49 cfs 1.843 af
Subcatchment2S(P): Post-Dev	Runoff Area=0.830 ac 100.00% Impervious Runoff Depth>3.66" Tc=5.0 min CN=0/98 Runoff=0.76 cfs 0.253 af
Subcatchment3S(P): Post-Dev	Runoff Area=1.550 ac 85.81% Impervious Runoff Depth>3.41" Tc=5.0 min CN=79/98 Runoff=1.31 cfs 0.440 af
Subcatchment4S(P): Post-Dev	Runoff Area=0.550 ac 100.00% Impervious Runoff Depth>3.66" Tc=5.0 min CN=0/98 Runoff=0.50 cfs 0.168 af
Subcatchment5S(P): Post-Dev	Runoff Area=1.340 ac 20.15% Impervious Runoff Depth>2.24" Tc=5.0 min CN=79/98 Runoff=0.71 cfs 0.250 af
Subcatchment6S(P): Post-Dev	Runoff Area=45.390 ac 1.06% Impervious Runoff Depth>2.09" Flow Length=1,550' Tc=39.4 min CN=82/98 Runoff=14.32 cfs 7.910 af
Reach 1R: Rock Creek Outfall	Inflow=15.65 cfs 8.742 af Outflow=15.65 cfs 8.742 af
Pond 1P: Pond	Peak Elev=137.21' Storage=92,372 cf Inflow=7.30 cfs 2.451 af Outflow=0.46 cfs 0.330 af
Tatal David Maria	$\mathbf{F}_{\mathbf{r}} = \mathbf{F}_{\mathbf{r}} + $

Total Runoff Area = 56.230 ac Runoff Volume = 10.863 af Average Runoff Depth = 2.32" 84.08% Pervious = 47.280 ac 15.92% Impervious = 8.950 ac

#### Summary for Subcatchment 1S(P): Post-Dev

Runoff = 5.49 cfs @ 7.91 hrs, Volume= 1.843 af, Depth> 3.37"

Area	(ac)	CN Des	cription					
* 5	5.490 98 Paved parking, roofs, HSG B							
1	.080	<u>79 &lt;50</u> 05 Wei	% Grass c	over, Poor,	or, HSG B			
1	.080	79 16.4	4% Pervio	us Area				
5	.490	98 83.5	56% Imper	vious Area	а			
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	y Description			
5.0					Direct Entry,			
			S	ubcatchn	nment 1S(P): Post-Dev			
				Hydro	Irograph			
6- 					Type IA 24-hr 25-YEAR Rainfall=3.90" Runoff Area=6.570 ac Runoff Volume=1.843 af Runoff Depth>3.37" Tc=5.0 min CN=79/98	noff		
0-	0 1 2	3 4 5	6 7 8	3 9 10 1 <b>Ti</b> i	11 12 13 14 15 16 17 18 19 20 21 22 23 24 Time (hours)			
0.05 0

Ó

2 3 4

5 6 7 8 9 10

#### Summary for Subcatchment 2S(P): Post-Dev

Runoff = 0.76 cfs @ 7.90 hrs, Volume= 0.253 af, Depth> 3.66"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

Area	(ac) CN	Deso	cription				
0.	830 98	B Pave	ed roads w	/curbs & se	ewers, HSG D		
0.	830 98	3 100.	00% Impe	rvious Area	a		
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
5.0					Direct Entry,		
			Sı	ubcatchn	nent 2S(P): Po	st-Dev	
0.85-				Hydro	ograph	<del>, , , , ,</del>	-
0.8-	i i			cfs		i i i i i i i i	- Runoff
0.75-						· · · · · · · · · · · · · · · · · · ·	
0.7-			+-+-+	<del> </del>		Type IA 24-hr	-
0.65-					25-YEA	AR Rainfall=3.90"	-
0.6-		-i			Runc	off Δrea=0 830 ac	
0.55-							
(sj) 0.5-					Runoff	Volume=0.253 af	
<b>8</b> 0.4-	!!					noff Depth>3.66"	-
Ĕ 0.35							
0.3-		-1	+	+			-
0.25-						GN=0/98_	_
0.2-				+			1
0.15-			++	+ +  -			
0.1	1		1 1	1 1 1			

11 12 13

Time (hours)

14 15 16 17 18 19 20 21 22

23 24

#### Summary for Subcatchment 3S(P): Post-Dev

Runoff = 1.31 cfs @ 7.90 hrs, Volume= 0.440 af, Depth> 3.41"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

_	Area	(ac)	CN I	Descri	ption											
*	1.	330	98 I	Paved	parkin	g, roofs	, HSC	GΒ	_							
_	0.	220	79 4	<u>&lt;50%</u>	Grass	cover, l	Poor,	HSG	В							
	1.	550 220	95 V	vveign 1⊿ 10º	ted Ave	erage	22									
	1.	330	98 8	85.819	% Impe	rvious /	Area									
	Tc	Length	n Slo	ppe ∖	/elocity	Capa	acity	Desc	criptio	n						
_	(min)	(feet	) (f	t/ft)	(ft/sec)		cts)	D:===	-4 <b>F</b>							
	5.0							Dire	CTEN	try,						
					S	ubcat	tchm	ent :	3S(P	): Po	st-D	ev				
							Hydro	graph								
	-				1.3	1 cfs		-					1			- Runoff
				i						Ì						
	-											Тур		24-	hr	
				   					25-	YEA	AR F	Rain	nfall=	=3.9	0"	
	1-	- $        -$	- $  $ $   $ $ $ $ $ $ $			$\frac{1}{1} \frac{1}{1}$	$\frac{1}{1} = -\frac{1}{1}$	<del> </del> 	<b>F</b>	luno	off A	\rea	=1.5	50	ac	
									Dur	o ff		um	<b></b> _	110	of	
	(cfs)			i			i i I I		ilui				v.,	<b>440</b>		
	<u>No</u>									Ru	nof	f De	pth>	>3.4	1"	
	ш –									1		T	c=5.	0 m	in	
				i I	11					i			CNI-	-70/	90	
	-									1				-/ 3/	90	
	-							-					i I			
													I			
	0-		1 1		 	 	 <del>                                  </del>	 	 <del>  -</del>	 <del>                                     </del>	 	· · ·		 <del>  </del>	 <del>   </del>	
	0	1 2	3 4	5	67	89	10 11 Tin	12 1 1e (hou	13 14 <b>rs)</b>	15 1	6 17	18 1	9 20 2	21 22	23 24	

### Summary for Subcatchment 4S(P): Post-Dev

Runoff = 0.50 cfs @ 7.90 hrs, Volume= 0.168 af, Depth> 3.66"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"



0.05

5

6 7

3 4

2

8 9 10

#### Summary for Subcatchment 5S(P): Post-Dev

Runoff = 0.71 cfs @ 7.97 hrs, Volume= 0.250 af, Depth> 2.24"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

Area (ac) CN De	scription	
0.270 98 Pa	ved parking, HSG B	
1.070 79 <5	0% Grass cover, Poor	, HSG B
1.340 83 We	eighted Average	
1.070 79 79	.85% Pervious Area	
0.270 98 20	. 15% Impervious Area	
Tc Length Slope (min) (feet) (ft/ft	e Velocity Capacity ) (ft/sec) (cfs)	Description
5.0	<u>, (1200)</u>	Direct Entry,
	Subcatchr	ment 5S(P): Post-Dev
	Hydro	ograph
0.75		
0.73	0.71 cfs	
		Type IA 24-hr
0.6		25-YEAR Rainfall=3.90"
0.55		
0.5		Runon Area - 1.340 ac
<u>ج</u> 0.45		Runoff Volume=0.250 af
<b>0</b> .4	+ +	Runoff Denth>2.24"
0.3		Tc=5.0 min
0.25		<b>CN=79/98</b>
0.15		
$0.1\frac{1}{1}$		

11 12 13

Time (hours)

14 15 16 17 18 19 20 21 22 23

24

#### Summary for Subcatchment 6S(P): Post-Dev

Runoff = 14.32 cfs @ 8.13 hrs, Volume= 7.910 af, Depth> 2.09"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type IA 24-hr 25-YEAR Rainfall=3.90"

	Area	(ac) (	CN E	)esc	cription		
	32.	480	79 <	50%	% Grass co	over, Poor,	HSG B
	0.4	480	98 F	ave	ed parking	, HSG D	
_	12.	430	89 <	50%	% Grass co	over, Poor,	HSG D
	45.	390	82 V	Veic	ghted Aver	age	
	44.	910	82 9	8.9	, 4% Pervio	us Area	
	0.4	480	98 1	.06	% Impervi	ous Area	
	Tc	Length	Slo	ре	Velocity	Capacity	Description
	(min)	(feet)	(ft	/ft)	(ft/sec)	(cfs)	
	14.6	100	0.01	00	0.11		Sheet Flow, Sheet Flow
							Grass: Short n= 0.150 P2= 2.50"
	21.4	1,100	0.01	50	0.86		Shallow Concentrated Flow, Shallow Concentrated
							Short Grass Pasture Kv= 7.0 fps
	3.4	350	0.06	00	1.71		Shallow Concentrated Flow, Shallow Concentrated
_							Short Grass Pasture Kv= 7.0 fps

39.4 1,550 Total

#### Subcatchment 6S(P): Post-Dev



#### Summary for Reach 1R: Rock Creek Outfall

Inflow Are	a =	56.230 ac, 15	5.92% Impervious,	Inflow Depth > 1.	87" for 25-YEAR event
Inflow	=	15.65 cfs @	8.06 hrs, Volume	= 8.742 af	
Outflow	=	15.65 cfs @	8.06 hrs, Volume	= 8.742 af,	Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2



#### Reach 1R: Rock Creek Outfall

#### Summary for Pond 1P: Pond

Inflow Area	a =	8.670 ac, 8	5.01% Impe	ervious,	Inflow De	epth >	3.39"	for 25-Y	EAR even	t
Inflow	=	7.30 cfs @	7.90 hrs,	Volume	=	2.451	af			
Outflow	=	0.46 cfs @	24.00 hrs,	Volume	=	0.330	af, Atte	en= 94%,	Lag= 965.	7 min
Primary	=	0.46 cfs @	24.00 hrs,	Volume	=	0.330	af		-	

Routing by Dyn-Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 137.21' @ 24.00 hrs Surf.Area= 23,403 sf Storage= 92,372 cf

Plug-Flow detention time= 807.3 min calculated for 0.329 af (13% of inflow) Center-of-Mass det. time= 368.0 min (1,040.2 - 672.1)

Invert	Avail.Stor	rage Storage	Description	
132.00'	111,00	9 cf Custom	Stage Data (Pri	ismatic)Listed below
s Si	ırf Δrea	Inc Store	Cum Store	
	(sq-ft)	(cubic-feet)	(cubic-feet)	
)	13,337	0		
)	14,863	14,100	14,100	
)	16,432	15,648	29,748	
)	18,051	17,242	46,989	
)	19,718	18,885	65,874	
	23,200	21,459	87,333	
)	24,152	23,070	111,009	
Routing	Invert	Outlet Device	s	
Primary	131.00'	18.0" Vert. 18	8" Pond Outlet	C= 0.620
Device 1	136.70'	4.2" Horiz. 5-	year Orifice C=	= 0.620
		Limited to we	ir flow at low hea	ds
Device 1	137.25'	6.0" Horiz. 10	0/25-year Orifice	e C= 0.620
Davias 1	121 001		Ir flow at low hea	ds 620 Limited to weir flow at low boads
	131.00	1.3 HOFIZ. W		.620 Limited to weir now at low neads
Device 4	132.00	27.0 X 24.0	ir flow at low hea	(Bottom) C = 0.000
Device 1	137 99'	27 <b>0" x 24 0</b> "	Horiz Overflow	us (Inlet (Ton) C= 0.600
	107.00	Limited to we	ir flow at low hea	ds
	Invert 132.00' 132.00' Su Su N N N N N N N N N N N N N N N N N	Invert Avail.Stol   132.00' 111,00   Surf.Area (sq-ft)   13,337 13,337   14,863 16,432   19,718 23,200   24,152 24,152   Routing Invert   Primary 131.00'   Device 1 137.25'   Device 1 132.00'   Device 1 137.99'	Invert Avail.Storage Storage   132.00' 111,009 cf Custom   Surf.Area Inc.Store   (sq-ft) (cubic-feet)   13337 0   14,863 14,100   16,432 15,648   18,051 17,242   19,718 18,885   23,200 21,459   24,152 23,676   Routing Invert Outlet Device   Primary 131.00' 18.0" Vert. 18   Device 1 136.70' 4.2" Horiz. 5   Limited to we Limited to we   Device 1 131.00' 1.3" Horiz. M   Device 1 137.25' 6.0" Horiz. 10   Limited to we Limited to we Limited to we   Device 1 137.99' 27.0" x 24.0"   Limited to we Limited to we	Invert Avail.Storage Storage Description   132.00' 111,009 cf Custom Stage Data (Pr   Surf.Area Inc.Store Cum.Store   (sq-ft) (cubic-feet) (cubic-feet)   13,337 0 0   14,863 14,100 14,100   16,432 15,648 29,748   18,051 17,242 46,989   19,718 18,885 65,874   23,200 21,459 87,333   24,152 23,676 111,009   Routing Invert Outlet Devices   Primary 131.00' 18.0" Vert. 18" Pond Outlet   Device 1 136.70' 4.2" Horiz. 5-year Orifice   C= Limited to weir flow at low hea   Device 1 131.00' 1.3" Horiz. WQ Orifice   Device 1 132.00' 27.0" x 24.0" Horiz. Overflow   Limited to weir flow at low hea Limited to weir flow at low hea   Device 1 137.99' 27.0" x 24.0" Horiz. Overflow

Primary OutFlow Max=0.46 cfs @ 24.00 hrs HW=137.21' TW=0.00' (Dynamic Tailwater)

-1=18" Pond Outlet (Passes 0.46 cfs of 20.55 cfs potential flow)

2=5-year Orifice (Orifice Controls 0.34 cfs @ 3.56 fps)

-3=10/25-year Orifice (Controls 0.00 cfs)

-4=WQ Orifice (Orifice Controls 0.11 cfs @ 12.40 fps)

**5=WQ Inlet (Bottom)** (Passes 0.11 cfs of 49.47 cfs potential flow)

-6=Overflow Inlet (Top) (Controls 0.00 cfs)

Pond 1P: Pond





# Appendix B: USDA – NRCS Soil Resource Report



**Conservation Service** 

National Cooperative Soil Survey

7/28/2021 Page 1 of 3



# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
5B	Briedwell stony silt loam, 0 to 7 percent slopes	9.4	84.9%
13	Cove silty clay loam	0.9	8.3%
28B	Laurelwood silt loam, 3 to 7 percent slopes	0.8	6.8%
Totals for Area of Interest	•	11.0	100.0%





# Appendix C: TR 55 Runoff Curve Numbers

#### **Table 2-2a**Runoff curve numbers for urban areas 1/

Cover description			Curve nı hvdrologic	umbers for soil group	
r i stati r	Average percent			0.1	
Cover type and hydrologic condition	impervious area $\frac{2}{2}$	А	В	С	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) <sup>3/</sup> :					
Poor condition (grass cover < 50%)	•••••	68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc.					
(excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved: curbs and storm sewers (excluding					
right-of-way)		98	98	98	98
Paved: open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) 4/		63	77	85	88
Artificial desert landscaping (impervious weed barrier,					
desert shrub with 1- to 2-inch sand or gravel mulch					
and basin borders)		96	96	96	96
Urban districts:					
Commercial and business		89	92	94	95
Industrial		81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)		77	85	90	92
1/4 acre		61	75	83	87
1/3 acre		57	72	81	86
1/2 acre		54	70	80	85
1 acre		51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Nowly graded areas					
(norrious gross only no vocatation) 5/		77	86	01	04
(pervious areas only, no vegetation) =		()	00	91	94
Idle lands (CN's are determined using cover types					
similar to those in table $2-2c$ ).					

<sup>1</sup> Average runoff condition, and  $I_a = 0.2S$ .

<sup>2</sup> The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.

<sup>3</sup> CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space

cover type.

<sup>4</sup> Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

<sup>5</sup> Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.



# Appendix D: Water Quality Calculations



Polley Industrial Site

PROJECT

AKS JOB NO.

7971

**DATE** 5/12/2022

### STORMWATER QUALITY CALCULATIONS

AKS ENGINEERING & FORESTRY, LLC | 12965 SW Herman Rd, Suite 100 | Tualatin, OR 97062

p: 503.563.6151 | f: 503.563.6152 | www.aks-eng.com

IMPERVIOUS AREA TABLE (Drains to Rock Creek)						
SUBCAT	NET CHANGE					
Existing 1S(E) (ac)	PROPOSED 1S(P) (ac)	(sq ft)				
0.63	7.640	7.01				
*TOTAL	7.640					

#### Note:

\*Runoff generated on impervious area to be treated by new pond.

PREPARED FOR:

Oregon Street Business Park, LLC

ADDRESS

PO Box 1489

CITY/STATE/ZIP

Sherwood, OR 97140

**PROJECT MANAGER:** 

JPC

**PREPARED BY:** 

BDL

**REVIEWED BY:** 

JPC



### **STORMWATER QUALITY CALCULATIONS**

AKS ENGINEERING & FORESTRY, LLC | 12965 SW Herman Rd, Suite 100 | Tualatin, OR 97062

p: 503.563.6151 | f: 503.563.6152 | www.aks-eng.com

PROJECT	SUBCATCHMENT 1S(P)		
Polley Industrial Site AKS JOB NO. 7971	IMPERVIOUS AREA USED IN DESIGN Per CWS 4.05.5 - R&O 07-20	332,798	square feet
<b>DATE</b> 5/12/2022	WATER QUALITY VOLUME (WQV) Per CWS 4.05.6b - R&O 07-20		
PREPARED FOR:	WQV = <u>0.36 in. X Area (sq ft.)</u> = 12 in. per ft.	9984	cubic feet
Oregon Street Business Park, LLC			
ADDRESS	WATER QUALITY FLOW (WQF) Per CWS 4.05.6b - R&O 07-20		
PO Box 1489			
CITY/STATE/ZIP	$WQF = \frac{WQV (sf)}{14,400 \text{ seconds}} =$	0.69	cubic feet per second
Sherwood, OR 97140			
PROJECT MANAGER:	WATER QUALITY MANHOLE SUMP VOLUME C Per CWS 4.06.1b - R&O 07-20	ALCULA	<u>FIONS</u>
JPC	CWS Criteria: Sump Volume = 20 cubic feet per 1.0 cfs	of flow	
PREPARED BY:			
BDL	Calculated 25-year Flow through WQ Manhole =	7	cubic feet per second
<b>REVIEWED BY:</b>			
JPC	Calculated Manhole Sump Volume =	140	cubic feet
	Calculated Manhole Sump Depth (60" dia. MH) =	7.1	feet therefore sump = 5.0 ft.

3 ft. minimum < Sump Depth < 5 ft. maximum



### **STORMWATER QUALITY CALCULATIONS**

AKS ENGINEERING & FORESTRY, LLC | 12965 SW Herman Rd, Suite 100 | Tualatin, OR 97062

p: 503.563.6151 | f: 503.563.6152 | www.aks-eng.com

PROJECT	EXTENDED DRY BASIN WATER QUALITY FLOW	V DES	IGN AND CALCULATIONS	
Polley Industrial Site	<u>Hydraulic Design Criteria (Per CWS 4.06.3 - R&amp;O 07-20)</u>			
AKS JOB NO.	Design Flow: Water Quality Flow			
7971	Water Quality Drawdown Time: 48 hours			
DATE	Maximum Water Design Depth: 4.0 feet			
5/12/2022	Minimum Freeboard: 1.0 foot (for facilities not protected	d from	high flows)	
PREPARED FOR: Oregon Street Business Park, LLC ADDRESS	<u>48-HOUR WATER QUALITY DRAW DOWN RATE (Q):</u>	<u>:</u>		
PO Box 1489	Water Quality Volume Pond Depth =	0.50	feet	
<b>CITY/STATE/ZIP</b> Sherwood, OR 97140	Q = <u>WQV (sf)</u> = 172,800 seconds	0.058	cubic feet per second	
PROJECT MANAGER:				
JPC	ORIFICE SIZING Diameter of Orifice			
PREPARED BY:				
BDL	$D = 24 \times \left[ \frac{Q/(C[2gH]^{0.5})}{\pi} \right]^{0.5} =$	1.60	inches	
<b>REVIEWED BY:</b>				
JPC	ORIFICE SIZING ASSUMPTIONS:			

Q	С	g	Н*
(cfs)		(ft/s <sup>2</sup> )	(ft)
0.058	0.62	32.2	0.7

Note:

\* H is 2/3 of the temporary detention height to centerline of orifice

#### **POND ELEVATIONS:**

Top of Pond =	138.50	feet
Top of WQV Storage =	133.00	feet
Top of Dead Storage =	132.50	feet
Centerline of Orifice Elevation =	132.00	feet

#### 25-YEAR STORM EVENT:

Peak Flow Elevation =	137.21	feet
Freeboard depth =	1.29	foot
Ponding depth =	4.71	feet
Total Pond Depth =	6.00	feet



# **STORMWATER QUALITY CALCULATIONS**

AKS ENGINEERING & FORESTRY, LLC | 12965 SW Herman Rd, Suite 100 | Tualatin, OR 97062

p: 503.563.6151 | f: 503.563.6152 | www.aks-eng.com

PROJECT	<u>EXTENDED</u>	DRY BASIN	<b>VOLUME</b>				
Polley Industrial Site	Contour Elevation	Contour Area	Average Area	Contour Interval	Incremental Volume	Cumulative Volume	
AKS JOB NO.	(Feet)	(SF)	(SF)	(Feet)	(CF)	(CF)	_
7971	132.00	13,337			0	0	-
DATE			13,717	0.5			
5/12/2022	132.5	14,096			6,859	6,859	
<b>PREPARED FOR:</b>			14,480	0.5			
Oregon Street Business Park, LLC	133.00	14,863			7,240	14,099	Top of WQV
ADDRESS			15,648	1.0			
PO Box 1489	134.0	16,432			15,648	29,747	
CITY/STATE/ZIP			17,242	1.0			
Sherwood, OR 97140	135.0	18,051			17,242	46,989	
<b>PROJECT MANAGER:</b>			18,885	1.0			
JPC	136.0	19,718			18,885	65,874	
PREPARED BY:			20,576	1.0			
BDL	137.0	21,434			20,576	86,450	
<b>REVIEWED BY:</b>			22,317	1.0			
JPC	138.0	23,200			22,317	108,767	
			23,676	0.5			
	138.5	24,152			11,838	120,605	



# Appendix E: Geotechnical Report



Real-World Geotechnical Solutions Investigation • Design • Construction Support

June 22, 2020 Project No. 20-5500

Bruce Polley 21720 SW Oregon Street Sherwood, Oregon 97140 Via email: <u>bruce@airteknw.com</u>

#### SUBJECT: GEOTECHNICAL ENGINEERING REPORT PROPOSED COMMERCIAL DEVELOPMENT 21720 SW OREGON STREET SHERWOOD, OREGON

This report presents the results of a geotechnical engineering study conducted by GeoPacific Engineering, Inc. (GeoPacific) for the above-referenced project. The purpose of our investigation was to evaluate subsurface conditions at the site and to provide geotechnical recommendations for site development. This geotechnical study was performed in accordance with GeoPacific Proposal No. P-7334, dated May 4, 2020 and your subsequent authorization of our proposal and *General Conditions for Geotechnical Services*.

#### SITE DESCRIPTION AND PROPOSED DEVELOPMENT

The subject site is located to the southeast of the intersection of SW Oregon Street and SW Tonquin Road in the City of Sherwood, Washington County, Oregon (Figures 1 & 2). The site is approximately 8.5 acres in size. Topography on the site generally slopes down to the east at average grades of 15 percent or less. The property is currently occupied by a single family residence and a separate shop building. Both structures are located in the north-central portion of the site and are accessed by a driveway on SW Oregon Street. Vegetation consists of grass pasture and dense to sparse trees.

We understand that plans for site development consist of the construction of four new industrial buildings, parking areas, driving lanes, stormwater management facility, and associated underground utilities. The structures will likely be supported by a spread footing foundation incorporating a slab-on-grade. Plans for site development have not yet been finalized, but we anticipate cuts and fills of 10 feet or less.

#### **REGIONAL AND LOCAL GEOLOGIC SETTING**

Regionally, the subject site lies within the Willamette Valley/Puget Sound lowland, a broad structural depression situated between the Coast Range on the west and the Cascade Range on the east. A series of discontinuous faults subdivide the Willamette Valley into a mosaic of fault-

bounded, structural blocks (Yeats et al., 1996). Uplifted structural blocks form bedrock highlands, while down-warped structural blocks form sedimentary basins.

The site is underlain by the Quaternary age (last 1.6 million years) Willamette Formation, a catastrophic flood deposit associated with repeated glacial outburst flooding of the Willamette Valley (Schlicker and Deacon, 1967; Yeats et al., 1996). The last of these outburst floods occurred about 10,000 years ago. In this vicinity, these flood deposits consist of coarse grained deposits typically consisting of pebbles and boulders in a silty matrix and fine grained deposits consisting of silt (Schlicker and Deacon, 1967; Beeson et al., 1989).

The catastrophic flood deposits are underlain by the Columbia River Basalt Formation (Schlicker and Deacon, 1967; Gannett and Caldwell, 1998). In the central and southern portions of the site, the Columbia River Basalt Formation is near the ground surface. The Miocene aged (about 14.5 to 16.5 million years ago) Columbia River Basalts are a thick sequence of lava flows which form the crystalline basement of the Tualatin Valley. The basalts are composed of dense, finely crystalline rock that is commonly fractured along blocky and columnar vertical joints. Individual basalt flow units typically range from 25 to 125 feet thick and interflow zones are typically vesicular, scoriaceous, brecciated, and sometimes include sedimentary rocks.

#### **REGIONAL SEISMIC SETTING**

At least three potential source zones capable of generating damaging earthquakes are thought to exist in the region. These include the Portland Hills Fault Zone, the Gales Creek-Newberg-Mt. Angel Structural Zone, and the Cascadia Subduction Zone, as discussed below.

#### Portland Hills Fault Zone

The Portland Hills Fault Zone is a series of NW-trending faults that include the central Portland Hills Fault, the western Oatfield Fault, and the eastern East Bank Fault. These faults occur in a northwest-trending zone that varies in width between 3.5 and 5.0 miles. The combined three faults vertically displace the Columbia River Basalt by 1,130 feet and appear to control thickness changes in late Pleistocene (approx. 780,000 years) sediment (Madin, 1990). The Portland Hills Fault occurs along the Willamette River at the base of the Portland Hills, and is approximately 11 miles northeast of the site. The East Bank Fault occurs along the eastern margin of the Willamette River, and is approximately 14 miles northeast of the site. The Oatfield Fault occurs along the western side of the Portland Hills, and is approximately 9 miles northeast of the site. The accuracy of the fault mapping is stated to be within 500 meters (Wong, et al., 2000). No historical seismicity is correlated with the mapped portion of the Portland Hills Fault Zone, but in 1991 a M3.5 earthquake occurred on a NW-trending shear plane located 1.3 miles east of the fault (Yelin, 1992). Although there is no definitive evidence of recent activity, the Portland Hills Fault Zone is assumed to be potentially active (Geomatrix Consultants, 1995).

#### Gales Creek-Newberg-Mt. Angel Structural Zone

The Gales Creek-Newberg-Mt. Angel Structural Zone is a 50-mile-long zone of discontinuous, NWtrending faults that lies approximately 8.4 miles southwest of the subject site. These faults are recognized in the subsurface by vertical separation of the Columbia River Basalt and offset seismic reflectors in the overlying basin sediment (Yeats et al., 1996; Werner et al., 1992). A geologic reconnaissance and photogeologic analysis study conducted for the Scoggins Dam site in the Tualatin Basin revealed no evidence of deformed geomorphic surfaces along the structural zone (Unruh et al., 1994). No seismicity has been recorded on the Gales Creek Fault or Newberg Fault;

however, these faults are considered to be potentially active because they may connect with the seismically active Mount Angel Fault and the rupture plane of the 1993 M5.6 Scotts Mills earthquake (Werner et al. 1992; Geomatrix Consultants, 1995).

#### Cascadia Subduction Zone

The Cascadia Subduction Zone is a 680-mile-long zone of active tectonic convergence where oceanic crust of the Juan de Fuca Plate is subducting beneath the North American continent at a rate of 4 cm per year (Goldfinger et al., 1996). A growing body of geologic evidence suggests that prehistoric subduction zone earthquakes have occurred (Atwater, 1992; Carver, 1992; Peterson et al., 1993; Geomatrix Consultants, 1995). This evidence includes: (1) buried tidal marshes recording episodic, sudden subsidence along the coast of northern California, Oregon, and Washington, (2) burial of subsided tidal marshes by tsunami wave deposits, (3) paleoliquefaction features, and (4) geodetic uplift patterns on the Oregon coast. Radiocarbon dates on buried tidal marshes indicate a recurrence interval for major subduction zone earthquakes of 250 to 650 years with the last event occurring 300 years ago (Atwater, 1992; Carver, 1992; Peterson et al., 1993; Geomatrix Consultants, 1995). The inferred seismogenic portion of the plate interface lies approximately 50 miles west of the Portland Basin at depths of between 20 and 40 kilometers below the surface.

#### FIELD EXPLORATION

Our site-specific exploration for this report was conducted on May 14, 2020. Nine exploratory test pits were excavated with a medium sized backhoe to depths ranging between 1 and 13 feet at the approximate locations presented on Figure 2. On May 26, 2020, seven hand auger borings were performed with hand equipment to depths of 1 to 5 feet, as presented on Figure 2. It should be noted that exploration locations were located in the field by pacing or taping distances from apparent property corners and other site features shown on the plans provided. As such, the locations of the explorations should be considered approximate.

A GeoPacific Engineering Geologist continuously monitored the field exploration program and logged the explorations. Soils observed were classified in general accordance with the Unified Soil Classification System (USCS). Rock hardness was classified in accordance with Table 1, modified from the ODOT Rock Hardness Classification Chart. During exploration, our geologist also noted geotechnical conditions such as soil consistency, moisture and groundwater conditions. Logs of the test pits and hand auger borings are attached to this report. The following report sections are based on the exploration program and summarize subsurface conditions encountered at the site.

ODOT Rock Hardness Rating	Field Criteria	Unconfined Compressive Strength	Typical Equipment Needed For Excavation
Extremely Soft (R0)	Indented by thumbnail	<100 psi	Small excavator
Very Soft (R1)	Scratched by thumbnail, crumbled by rock hammer	100-1,000 psi	Small excavator
Soft (R2)	Not scratched by thumbnail, indented by rock hammer	1,000-4,000 psi	Medium excavator (slow digging with small excavator)
Medium Hard (R3)	Scratched or fractured by rock hammer	4,000-8,000 psi	Medium to large excavator (slow to very slow digging), typically requires chipping with hydraulic hammer or mass excavation)
Hard (R4)	Scratched or fractured w/ difficulty	8,000-16,000 psi	Slow chipping with hydraulic hammer and/or blasting
Very Hard (R5)	Not scratched or fractured after many blows, hammer rebounds	>16,000 psi	Blasting

### Table 1. Rock Hardness Classification Chart

**Undocumented Fill:** Undocumented fill was encountered at the ground surface in test pit TP-9. The fill generally consisted of abundant inorganic debris (concrete, bricks, fabric) in a silty GRAVEL (GM) matrix that extended to a depth of 6.5 feet. The fill was loose to medium dense and significant caving of the sidewalls was observed. Topography indicates additional fill is present in the vicinity of the shop building, as presented on Figure 2. It is likely that other areas of undocumented fill may exist in the vicinity of the existing structures.

**Topsoil Horizon:** The ground surface in test pits TP-1 through TP-8 and hand auger borings HA-1 through HA-7 was directly underlain by a topsoil horizon generally consisting of brown, moderately to highly organic silt (ML-OL). Generally, the topsoil horizon was loose, contained fine roots throughout, and extended to a depth of approximately 7 to 12 inches below the ground surface.

#### Catastrophic Flood Deposits (Willamette Formation):

<u>Fine Grained:</u> Underlying the topsoil horizon in test pits TP-1, TP-2, TP-4 through TP-8 and hand auger borings HA-1 through HA-3, HA-5, and HA-7 and the undocumented fill in test pit TP-9 was fine grained catastrophic flood deposits. These soils generally consisted of light brown clayey silt (ML) that typically had a stiff to very stiff consistency. Test pits TP-1 and TP-2 encountered additional fine grained flood deposits beneath the coarse grained deposits. Fine grained catastrophic flood deposits beneath the coarse grained deposits. Fine grained to depths of approximately 1.5 to 9 feet in test pits TP-4 through TP-8 and beyond the maximum depth of exploration in test pits TP-1, TP-2, and TP-9.

<u>Coarse Grained</u>: In test pits TP-1, TP-2, TP-4 through TP-6, and TP-8 and hand auger borings HA-1 through HA-3, HA-5, and HA-7, the fine grained flood deposits were underlain by coarse

grained flood deposits. In explorations, these soils typically consisted of silty GRAVEL, COBBLES, and BOULDERS (GM) that had a dense to very dense relative density. In test pits TP-1, TP-2, TP-4, TP-5, and TP-7, the coarse grained flood deposits extended to depths of 8.5 to 11 feet. Practical refusal was achieved in hand auger borings HA-1 through HA-3, HA-5, and HA-7 and with a medium sized backhoe equipped with rock teeth was achieved on very dense flood deposits in test pit TP-6 and TP-8 at a depth of 10 feet. In our test pits we observed boulders up to 30 inches in diameter. It is possible that larger boulders are present on the site in areas outside our explorations.

**Peat Deposit:** A deposit of PEAT (PT) was encountered beneath the fine grained flood deposits in test pit TP-7. The highly organic peat was approximately 1 foot in thickness in test pit TP-7 and extended from a depth of 9 to 10 feet. Laboratory testing indicates the peat soils have an organic content of 14.3 percent. The results of laboratory testing are attached at the end of this report.

**Columbia River Basalt Formation:** Basalt bedrock belonging to the Columbia River Basalt Formation was encountered beneath the topsoil horizon in test pit TP-3 and hand auger borings HA-4 and HA-6 and the coarse grained flood deposits in test pits TP-4, TP-5, and TP-7. In our explorations, the gray rock contained trace silty clay to clayey silt matrix and was weathered to very soft (R1) to hard (R4) according to the ODOT Rock Hardness Chart (Table 1). Basalt belonging to the Columbia River Basalt Formation extended beyond the maximum depth of exploration in test pits TP-5 (11 feet) and TP-7 (13 feet). Practical refusal on hard (R4) basalt was achieved at 1 foot in test pit TP-3 and hand augers HA-4 and HA-6 and at 8.5 feet in test pit TP-4.

#### Soil Moisture and Groundwater

On May 14 and 26, 2020, soils encountered in our explorations were damp to wet. Perched groundwater seepage was encountered in test pits TP-4, TP-6, TP-7 and hand auger borings HA-1, HA-2, and HA-7 at depths of 1.5 to 9 feet. Discharge was visually estimated at less than ¼ gallon per minute to ½ gallon per minute. Static groundwater was not encountered in explorations to a maximum depth of 13 feet. Experience has shown that temporary perched storm-related groundwater conditions often occur within the surface soils over fine-grained native deposits such as those beneath the site, particularly during the wet season. It is anticipated that groundwater conditions, changes in site utilization, and other factors.

#### CONCLUSIONS AND RECOMMENDATIONS

Our investigation indicates that the proposed development is geotechnically feasible, provided that the recommendations of this report are incorporated into the design and construction phases of the project. In our opinion, the primary geotechnical issues for the proposed development include:

- 1) The presence of undocumented fill in the central portion of the site. Up to 6.5 feet of fill was encountered in test pit TP-9 and topography indicates other fill is present in the vicinity of the existing shop building. Existing fill should be removed and replaced with engineered fill as described in the following *Site Preparation* and *Engineered Fill* sections.
- 2) The potential to encounter very dense flood boulders and hard, basalt bedrock. Practical refusal on hard (R4) basalt bedrock was achieved with a medium sized backhoe equipped with rock teeth at a depth of 1 foot in test pit TP-3 and 8.5 feet in test pit TP-4. Practical refusal on very dense flood deposit boulders was achieved at a depth of 10 feet in test pits

TP-6 and TP-8. The hard basalt bedrock and very dense flood boulders could hamper deep excavations (such as for utility trenching). Contractors should be prepared to manage difficult excavation conditions and budget accordingly. The presence of cobbles and boulders may also complicate reuse of the native soils as engineered fill material. Reuse of the native coarse grained flood deposit soils may require sorting operations under the supervision of GeoPacific.

3) The potential to encounter peat soils. Highly organic peat was encounter at depths of 9 to 10 feet in test pit TP-7. Hand auger explorations conducted in the vicinity of test pit TP-7 did not encountered peat soils indicating that the peat layer does not extend significantly north, south, or east from test pit TP-7. However, we recommend that the extent of the peat soils be evaluated further in the field by potholing during construction in an effort to verify that peat is not present within the influence zone of the building. If peat soils are encountered within the influence zones of proposed structures during construction, removal and backfill with engineered fill material may be necessary.

#### Site Preparation

Areas of proposed buildings, streets, and areas to receive fill should be cleared of vegetation and any organic and inorganic debris. Existing fill should be completely removed. Undocumented fill was encountered in test pit TP-9 and extended to a depth of approximately 6.5 feet. Topography indicated additional fill may be present in the vicinity of test pit TP-9, as presented on Figure 2. It is likely that other areas of fill are present in the vicinity of the existing structures and driveway. Existing buried structures such as septic tanks, should be demolished and any cavities structurally backfilled. Inorganic debris should be removed from the site.

Organic-rich topsoil should then be stripped from native soil areas of the site. Depth of stripping of existing topsoil is estimated to be approximately 6 to 9 inches across the majority of the site. The final depth of soil removal will be determined on the basis of a site inspection after the stripping/excavation has been performed. Stripped topsoil should preferably be removed from the site due to the high density of the proposed development. Any remaining topsoil should be stockpiled only in designated areas and stripping operations should be observed and documented by the geotechnical engineer or his representative.

Once topsoil stripping and removal of organic and inorganic debris is approved in a particular area, the area must be ripped or tilled to a depth of 12 inches, moisture conditioned, root-picked, and compacted in-place prior to the placement of engineered fill or crushed aggregate base for pavement. Exposed subgrade soils should be evaluated by the geotechnical engineer. For large areas, this evaluation is normally performed by proof-rolling the exposed subgrade with a fully loaded scraper or dump truck. For smaller areas where access is restricted, the subgrade should be evaluated by probing the soil with a steel probe. Soft/loose soils identified during subgrade preparation should be compacted to a firm and unyielding condition, over-excavated and replaced with engineered fill (as described below) or stabilized with rock prior to placement of engineer at the time of construction.

#### Engineered Fill

All grading for the proposed construction should be performed as engineered grading in accordance with the applicable building code at time of construction with the exceptions and additions noted herein. Proper test frequency and earthwork documentation usually requires daily observation and testing during stripping, rough grading, and placement of engineered fill. Imported

fill material must be approved by the geotechnical engineer prior to being imported to the site. Oversize material greater than 6 inches in size should not be used within 3 feet of foundation footings, and material greater than 12 inches in diameter should not be used in engineered fill.

Engineered fill should be compacted in horizontal lifts not exceeding 8 inches using standard compaction equipment. We recommend that engineered fill be compacted to at least 95% of the maximum dry density determined by ASTM D698 (Standard Proctor) or equivalent. Field density testing should conform to ASTM D2922 and D3017, or D1556. All engineered fill should be observed and tested by the project geotechnical engineer or his representative. Typically, one density test is performed for at least every 2 vertical feet of fill placed or every 500 yd<sup>3</sup>, whichever requires more testing. Because testing is performed on an on-call basis, we recommend that the earthwork contractor be held contractually responsible for test scheduling and frequency. Site earthwork will be impacted by soil moisture and shallow groundwater conditions. Earthwork in wet weather would likely require extensive use of cement or lime treatment, or other special measures, at considerable additional cost compared to earthwork performed under dry-weather conditions.

#### **Excavating Conditions and Utility Trenches**

We anticipate that on-site soils can be excavated using conventional heavy equipment such as trackhoes to a depth of at least 13 feet; however practical refusal on hard (R4) basalt bedrock was achieved with a medium sized backhoe at a depth of 1 foot in test pit TP-3 and 8.5 feet in test pit TP-4. Practical refusal on very dense flood deposit boulders was achieved at a depth of 10 feet in test pits TP-6 and TP-8. Difficult excavating conditions especially for utility trenching should be expected. The selected contractor for site development should be prepared for encountering very dense boulders and hard rock conditions.

All temporary cuts in excess of 4 feet in height should be sloped in accordance with U.S. Occupational Safety and Health Administration (OSHA) regulations (29 CFR Part 1926), or be shored. The existing near surface native soil is classified as Type B Soils and temporary excavation side slope inclinations as steep as 1H:1V may be assumed for planning purposes. This cut slope inclination is applicable to excavation stability, is the responsibility of the contractor. Actual slope inclinations at the time of construction should be determined based on safety requirements and actual soil and groundwater conditions.

Saturated soils and groundwater may be encountered in utility trenches, particularly during the wet season. We anticipate that dewatering systems consisting of ditches, sumps and pumps would be adequate for control of perched groundwater. Regardless of the dewatering system used, it should be installed and operated such that in-place soils are prevented from being removed along with the groundwater.

Vibrations created by traffic and construction equipment may cause some caving and raveling of excavation walls. In such an event, lateral support for the excavation walls should be provided by the contractor to prevent loss of ground support and possible distress to existing or previously constructed structural improvements.

PVC pipe should be installed in accordance with the procedures specified in ASTM D2321. We recommend that trench backfill be compacted to at least 95% of the maximum dry density obtained by Standard Proctor ASTM D698 or equivalent. Initial backfill lift thickness for a <sup>3</sup>/<sub>4</sub>"-0 crushed aggregate base may need to be as great as 4 feet to reduce the risk of flattening underlying flexible pipe. Subsequent lift thickness should not exceed 1 foot. If imported granular fill material is used,

then the lifts for large vibrating plate-compaction equipment (e.g. hoe compactor attachments) may be up to 2 feet, provided that proper compaction is being achieved and each lift is tested. Use of large vibrating compaction equipment should be carefully monitored near existing structures and improvements due to the potential for vibration-induced damage.

Adequate density testing should be performed during construction to verify that the recommended relative compaction is achieved. Typically, one density test is taken for every 4 vertical feet of backfill on each 200-lineal-foot section of trench.

#### **Erosion Control Considerations**

During our field exploration program, we did not observe soil types that would be considered highly susceptible to erosion. In our opinion, the primary concern regarding erosion potential will occur during construction, in areas that have been stripped of vegetation. Erosion at the site during construction can be minimized by implementing the project erosion control plan, which should include judicious use of straw wattles and silt fences. If used, these erosion control devices should be in place and remain in place throughout site preparation and construction.

Erosion and sedimentation of exposed soils can also be minimized by quickly re-vegetating exposed areas of soil, and by staging construction such that large areas of the project site are not denuded and exposed at the same time. Areas of exposed soil requiring immediate and/or temporary protection against exposure should be covered with either mulch or erosion control netting/blankets. Areas of exposed soil requiring permanent stabilization should be seeded with an approved grass seed mixture, or hydroseeded with an approved seed-mulch-fertilizer mixture.

#### Wet Weather Earthwork

Soils underlying the site are likely to be moisture sensitive and may be difficult to handle or traverse with construction equipment during periods of wet weather. Earthwork is typically most economical when performed under dry weather conditions. Earthwork performed during the wetweather season will probably require expensive measures such as cement treatment or imported granular material to compact fill to the recommended engineering specifications. If earthwork is to be performed or fill is to be placed in wet weather or under wet conditions when soil moisture content is difficult to control, the following recommendations should be incorporated into the contract specifications.

- Earthwork should be performed in small areas to minimize exposure to wet weather. Excavation or the removal of unsuitable soils should be followed promptly by the placement and compaction of clean engineered fill. The size and type of construction equipment used may have to be limited to prevent soil disturbance. Under some circumstances, it may be necessary to excavate soils with a backhoe to minimize subgrade disturbance caused by equipment traffic;
- The ground surface within the construction area should be graded to promote run-off of surface water and to prevent the ponding of water;
- Material used as engineered fill should consist of clean, granular soil containing less than 5 percent fines. The fines should be non-plastic. Alternatively, cement treatment of on-site soils may be performed to facilitate wet weather placement;
- The ground surface within the construction area should be sealed by a smooth drum vibratory roller, or equivalent, and under no circumstances should be left uncompacted and exposed to

moisture. Soils which become too wet for compaction should be removed and replaced with clean granular materials;

- Excavation and placement of fill should be observed by the geotechnical engineer to verify that all unsuitable materials are removed and suitable compaction and site drainage is achieved; and
- Geotextile silt fences, straw wattles, and fiber rolls should be strategically located to control erosion.

If cement or lime treatment is used to facilitate wet weather construction, GeoPacific should be contacted to provide additional recommendations and field monitoring.

#### **Structural Foundations**

Based on our understanding of the proposed project and the results of our exploration program, and assuming our recommendations for site preparation are followed, native deposits or engineered fill are anticipated to be encountered at or near the foundation level of the proposed structure. These soils are generally stiff to dense and should provide adequate support of the structural loads; however, approximately 6.5 feet of undocumented fill was encountered at the ground surface in test pit TP-9 which was located near a large shop building. Topography indicates more fill is present in the vicinity of the shop building, as presented on Figure 2. These fill areas should be removed beneath structural areas and replaced with engineered fill. Peat soils were encountered at depths of 9 to 10 feet in test pit TP-7. Supplemental hand auger borings conducted in the vicinity of test pit TP-7 did not encounter peat soil. However, we recommend that the extent of the peat soils be evaluated further in the field during construction in an effort to verify that peat is not present within the influence of the building. GeoPacific should be contacted for further recommendations if additional areas of peat are encountered.

The allowable soil bearing capacity for spread or continuous foundations bearing on competent, unimproved, native soil and/or engineered fill is 2,000 psf with a coefficient of subgrade reaction of 150 kcf (87 pci). Higher allowable bearing pressures may be possible if the subgrade is overexcavated and compacted base rock is placed underneath the footings. If higher allowable bearing capacities are desired, GeoPacific may be consulted to provide additional recommendations.

The recommended maximum allowable bearing pressure may be increased by 1/3 for short-term transient conditions such as wind and seismic loading. The maximum anticipated total and differential footing movements under static loading conditions are 1 inch and <sup>3</sup>/<sub>4</sub> inch over a span of 20 feet, respectively. We anticipate that the majority of the estimated settlement will occur during construction, as loads are applied. Excavations near structural footings should not extend within a 1H:1V plane projected downward from the bottom edge of footings.

Wind, earthquakes, and unbalanced earth loads will subject the proposed structure to lateral forces. Lateral forces on a structure will be resisted by a combination of sliding resistance of its base or footing on the underlying soil and passive earth pressure against the buried portions of the structure. For use in design, a coefficient of friction of 0.42 may be assumed along the interface between the base of the footing and subgrade soils. Passive earth pressure for buried portions of structures may be calculated using an equivalent fluid weight of 320 pounds per cubic foot (pcf), assuming footings are cast against native soils or engineered fill. The recommended coefficient of friction and passive earth pressure values do not include a safety factor. The upper 12 inches of soil should be neglected in passive pressure computations unless it is protected by pavement or slabs on grade.

Footing excavations should be trimmed neat and the bottom of the excavation should be carefully prepared. Loose, wet or otherwise softened soil should be removed from the footing excavation prior to placing reinforcing steel bars. The above foundation recommendations are for dry weather conditions. Due to the high moisture sensitivity of on-site soils, construction during wet weather may require additional overexcavation of footings and backfill with compacted, crushed aggregate. GeoPacific should observe foundation excavations prior to placing formwork and reinforcing steel, to verify that adequate bearing soils have been reached.

We recommend a minimum thickness of 12 inches of 1½"-0 crushed aggregate beneath the slab. The total thickness of crushed aggregate will be dependent on the subgrade conditions at the time of construction and should be verified visually by proof-rolling. Under-slab aggregate should be compacted to at least 90 percent of its maximum dry density as determined by ASTM D1557 (Modified Proctor) or equivalent.

In areas where moisture will be detrimental to floor coverings or equipment inside the proposed structure, appropriate vapor barrier and damp-proofing measures should be implemented. Appropriate design professionals should be consulted regarding vapor barrier and damp proofing systems, ventilation, building material selection and mold prevention issues, which are outside GeoPacific's area of expertise.

#### Concrete Slabs-on-Grade

Preparation of areas beneath concrete slab-on-grade floors should be performed as recommended in the *Site Preparation and Undocumented Fill Removal* section. Care should be taken during excavation for foundations and floor slabs, to avoid disturbing subgrade soils. If subgrade soils have been adversely impacted by wet weather or otherwise disturbed, the surficial soils should be scarified to a minimum depth of 8 inches, moisture conditioned to within about 3 percent of optimum moisture content and compacted to engineered fill specifications. Alternatively, disturbed soils may be removed and the removal zone backfilled with additional crushed rock.

For evaluation of the concrete slab-on-grade floors using the beam on elastic foundation method, a modulus of subgrade reaction of 150 kcf (87 pci) should be assumed for the medium stiff native silt soils anticipated at subgrade depth. This value assumes the concrete slab system is designed and constructed as recommended herein, with a minimum thickness of crushed rock of 8 inches beneath the slab.

Interior slab-on-grade floors should be provided with an adequate moisture break. The capillary break material should consist of ODOT open graded aggregate per ODOT Standard Specifications 02630-2. The minimum recommended thickness of capillary break materials on re-compacted soil subgrade is 8 inches. The total thickness of crushed aggregate will be dependent on the subgrade conditions at the time of construction, and should be verified visually by proof-rolling. Under-slab aggregate should be compacted to at least 90% of its maximum dry density as determined by ASTM D1557 or equivalent.

In areas where moisture will be detrimental to floor coverings or equipment inside the proposed structure, appropriate vapor barrier and damp-proofing measures should be implemented. A commonly applied vapor barrier system consists of a 10-mil polyethylene vapor barrier placed directly over the capillary break material. Other damp/vapor barrier systems may also be feasible. Appropriate design professionals should be consulted regarding vapor barrier and damp proofing systems, ventilation, building material selection and mold prevention issues, which are outside GeoPacific's area of expertise.

#### Permanent Below-Grade Walls

Lateral earth pressures against below-grade retaining walls will depend upon the inclination of any adjacent slopes, type of backfill, degree of wall restraint, method of backfill placement, degree of backfill compaction, drainage provisions, and magnitude and location of any adjacent surcharge loads. At-rest soil pressure is exerted on a retaining wall when it is restrained against rotation. In contrast, active soil pressure will be exerted on a wall if its top is allowed to rotate or yield a distance of roughly 0.001 times its height or greater.

If the subject retaining walls will be free to rotate at the top, they should be designed for an active earth pressure equivalent to that generated by a fluid weighing 35 pcf for level backfill against the wall. For restrained wall, an at-rest equivalent fluid pressure of 55 pcf should be used in design, again assuming level backfill against the wall. These values assume that drainage provisions are incorporated, free draining gravel backfill is used, and hydrostatic pressures are not allowed to develop against the wall.

During a seismic event, lateral earth pressures acting on below-grade structural walls will increase by an incremental amount that corresponds to the earthquake loading. Based on the Mononobe-Okabe equation and peak horizontal accelerations appropriate for the site location, seismic loading should be modeled using the active or at-rest earth pressures recommended above, plus an incremental rectangular-shaped seismic load of magnitude 6.5H, where H is the total height of the wall.

We assume relatively level ground surface below the base of the walls. As such, we recommend passive earth pressure of 320 pcf for use in design, assuming wall footings are cast against competent native soils or engineered fill. If the ground surface slopes down and away from the base of any of the walls, a lower passive earth pressure should be used and GeoPacific should be contacted for additional recommendations.

A coefficient of friction of 0.42 may be assumed along the interface between the base of the wall footing and subgrade soils. The recommended coefficient of friction and passive earth pressure values do not include a safety factor, and an appropriate safety factor should be included in design. The upper 12 inches of soil should be neglected in passive pressure computations unless it is protected by pavement or slabs on grade.

The above recommendations for lateral earth pressures assume that the backfill behind the subsurface walls will consist of properly compacted structural fill, and no adjacent surcharge loading. If the walls will be subjected to the influence of surcharge loading within a horizontal distance equal to or less than the height of the wall, the walls should be designed for the additional horizontal pressure. For uniform surcharge pressures, a uniformly distributed lateral pressure of 0.3 times the surcharge pressure should be added. Traffic surcharges may be estimated using an additional vertical load of 250 psf (2 feet of additional fill), in accordance with local practice.

The recommended equivalent fluid densities assume a free-draining condition behind the walls so that hydrostatic pressures do not build-up. This can be accomplished by placing a 12 to 18-inch wide zone of sand and gravel containing less than 5 percent passing the No. 200 sieve against the walls. A 3-inch minimum diameter perforated, plastic drain pipe should be installed at the base of the walls and connected to a suitable discharge point to remove water in this zone of sand and gravel. The drain pipe should be wrapped in filter fabric (Mirafi 140N or other as approved by the geotechnical engineer) to minimize clogging.

Wall drains are recommended to prevent detrimental effects of surface water runoff on foundations – not to dewater groundwater. Drains should not be expected to eliminate all potential sources of water entering a basement or beneath a slab-on-grade. An adequate grade to a low point outlet drain in the crawlspace is required by code. Underslab drains are sometimes added beneath the slab when placed over soils of low permeability and shallow, perched groundwater.

Water collected from the wall drains should be directed into the local storm drain system or other suitable outlet. A minimum 0.5 percent fall should be maintained throughout the drain and non-perforated pipe outlet. Down spouts and roof drains should not be connected to the wall drains in order to reduce the potential for clogging. The drains should include clean-outs to allow periodic maintenance and inspection. Grades around the proposed structure should be sloped such that surface water drains away from the building.

GeoPacific should be contacted during construction to verify subgrade strength in wall keyway excavations, to verify that backslope soils are in accordance with our assumptions, and to take density tests on the wall backfill materials.

Structures should be located a horizontal distance of at least 1.5H away from the back of the retaining wall, where H is the total height of the wall. GeoPacific should be contacted for additional foundation recommendations where structures are located closer than 1.5H to the top of any wall.

#### Pavement Design

For design purposes, we used an estimated resilient modulus of 6,000 for compacted native soil or engineered fill. Table 2 presents our recommended minimum pavement section for dry weather construction.

Material Layer	Light Duty Public Streets	Compaction Standard
Asphaltic Concrete (AC)	3 in.	92% of Rice Density AASHTO T-209
Crushed Aggregate Base 3/4"-0 (leveling course)	2 in.	95% of Modified Proctor AASHTO T-180
Crushed Aggregate Base 11/2"-0	8 in.	95% of Modified Proctor AASHTO T-180
Subgrade	12 in.	90% of Modified Proctor AASHTO T-180 or equivalent

Table 2. Recommended Minimum Dry-Weather Pavement Section

Any pockets of organic debris or loose fill encountered during ripping or tilling should be removed and replaced with engineered fill (see *Site Preparation* Section). In order to verify subgrade strength, we recommend proof-rolling directly on subgrade with a loaded dump truck during dry weather and on top of base course in wet weather. Soft areas that pump, rut, or weave should be stabilized prior to paving. If pavement areas are to be constructed during wet weather, the subgrade and construction plan should be reviewed by the project geotechnical engineer at the time of construction so that condition specific recommendations can be provided. The moisture sensitive subgrade soils make the site a difficult wet weather construction project.

During placement of pavement section materials, density testing should be performed to verify compliance with project specifications. Generally, one subgrade, one base course, and one asphalt compaction test is performed for every 100 to 200 linear feet of paving.

#### **Drains**

The outside edge of perimeter walls should be provided with a drainage system consisting of 3-inch diameter, slotted, flexible plastic pipe embedded in a minimum of 1 ft<sup>3</sup> per lineal foot of clean, free-draining gravel or 1 1/2" - 3/4" drain rock. The drain pipe and surrounding drain rock should be wrapped in non-woven geotextile (Mirafi 140N, or approved equivalent) to minimize the potential for clogging and/or ground loss due to piping. Water collected from the footing drains should be directed into the local storm drain system or other suitable outlet. A minimum 0.5 percent fall should be maintained throughout the drain and non-perforated pipe outlet. Down spouts and roof drains should not be connected to the foundation drains in order to reduce the potential for clogging. The footing drains should include clean-outs to allow periodic maintenance and inspection. Grades around the proposed structure should be sloped such that surface water drains away from the building.

Footing drains are recommended to prevent detrimental effects of surface water runoff on foundations – not to dewater groundwater. Footing drains should not be expected to eliminate all potential sources of water entering a basement or beneath a slab-on-grade. An adequate grade to a low point outlet drain in the crawlspace is required by code. Underslab drains are sometimes added beneath the slab when placed over soils of low permeability and shallow, perched groundwater.

#### Seismic Design

The Oregon Department of Geology and Mineral Industries (Dogami), Oregon HazVu: 2020 Statewide GeoHazards Viewer indicates that the site is in an area where *very strong* to *severe* ground shaking is anticipated during an earthquake (Dogami HazVu, 2020). Structures should be designed to resist earthquake loading in accordance with the methodology described in the 2015 International Building Code (IBC) with applicable Oregon Structural Specialty Code (OSSC) revisions (current 2014). We recommend Site Class D be used for design as defined in ASCE 7, Chapter 20, Table 20.3-1. Design values determined for the site using the ATC (Applied Technology Council) *ASCE7-10 Hazards by Location online Tool* website are summarized in Table 3.

Parameter	Value		
Location (Lat, Long), degrees	45.361, -122.822		
Mapped Spectral Acceleration Values	(MCE):		
Peak Ground Acceleration PGA <sub>M</sub>	0.449 g		
Short Period, S <sub>s</sub>	0.940 g		
1.0 Sec Period, S <sub>1</sub>	0.418 g		
Soil Factors for Site Class D:			
Fa	1.124		
F <sub>v</sub>	1.582		
$SD_s = 2/3 \times F_a \times S_s$	0.704 g		
$SD_1 = 2/3 \times F_v \times S_1$	0.441 g		
Seismic Design Category	D		

#### Table 3. Recommended Earthquake Ground Motion Parameters (IBC-2015)

#### Soil Liquefaction

Soil liquefaction is a phenomenon wherein saturated soil deposits temporarily lose strength and behave as a liquid in response to earthquake shaking. Soil liquefaction is generally limited to loose, granular soils located below the water table. The Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon HazVu: 2020 Statewide GeoHazards Viewer indicates that the majority of the site is considered to not have a risk for soil liquefaction. A narrow portion of the site along SW Oregon Street is mapped as having a low risk for soil liquefaction during an earthquake and the southwestern portion of the site is mapped as having a high risk for soil liquefaction (Hazvu, 2020). Our explorations in the southwestern portion of the site encountered stiff, fine grained soils underlain by dense to very dense, silty gravel above the water table, underlain by basalt bedrock. It is our opinion that soils underlying the site are not considered susceptible to liquefaction.

#### **Other Potential Seismic Impacts**

Other potential seismic impacts include fault rupture potential. However, based on our review of available geologic literature, we are not aware of any mapped active (demonstrating movement in the last 10,000 years) faults on the site. During our field investigation, we did not observe any evidence of surface rupture or recent faulting. Therefore, we conclude that the potential for fault rupture on site is very low.

#### UNCERTAINTIES AND LIMITATIONS

We have prepared this report for the owner and their consultants for use in design of this project only. This report should be provided in its entirety to prospective contractors for bidding and estimating purposes; however, the conclusions and interpretations presented in this report should not be construed as a warranty of the subsurface conditions. Experience has shown that soil and groundwater conditions can vary significantly over small distances. Inconsistent conditions can occur between explorations that may not be detected by a geotechnical study. If, during future site operations, subsurface conditions are encountered which vary appreciably from those described herein, GeoPacific should be notified for review of the recommendations of this report, and revision of such if necessary.

Sufficient geotechnical monitoring, testing and consultation should be provided during construction to confirm that the conditions encountered are consistent with those indicated by explorations. The checklist attached to this report outlines recommended geotechnical observations and testing for the project. Recommendations for design changes will be provided should conditions revealed during construction differ from those anticipated, and to verify that the geotechnical aspects of construction comply with the contract plans and specifications.

Within the limitations of scope, schedule and budget, GeoPacific attempted to execute these services in accordance with generally accepted professional principles and practices in the fields of geotechnical engineering and engineering geology at the time the report was prepared. No warranty, expressed or implied, is made. The scope of our work did not include environmental assessments or evaluations regarding the presence or absence of wetlands or hazardous or toxic substances in the soil, surface water, or groundwater at this site.

We appreciate this opportunity to be of service.

Sincerely,

#### **GEOPACIFIC ENGINEERING, INC.**



Beth K. Rapp, C.E.G. Senior Engineering Geologist



Benjamin G. Anderson, P.E. Associate Engineer

Attachments: References Figure 1 – Vicinity Map Figure 2 – Site Plan and Exploration Locations Test Pit Logs (TP-1 through TP-7) Hand Auger Log (HA-1 through HA-7) Results of Laboratory Testing – Organic Content of Soil

#### REFERENCES

Applied Technology Council (ATC), 2020, Hazards by Location Online Tool, https://hazards.atcouncil.org/#/seismic

- Atwater, B.F., 1992, Geologic evidence for earthquakes during the past 2,000 years along the Copalis River, southern coastal Washington: Journal of Geophysical Research, v. 97, p. 1901-1919.
- Beeson, M.H., Tolan, T.L., and Madin, I.P., 1989, Geologic map of the Lake Oswego Quadrangle, Clackamas, Multnomah, and Washington Counties, Oregon: Oregon Department of Geology and Mineral Industries Geological Map Series GMS-59, scale 1:24,000.
- Carver, G.A., 1992, Late Cenozoic tectonics of coastal northern California: American Association of Petroleum Geologists-SEPM Field Trip Guidebook, May, 1992.
- Gannett, M.W. and Caldwell, R.R., 1998, Geologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-A, 32 pages text, 8 plates.
- Geomatrix Consultants, 1995, Seismic Design Mapping, State of Oregon: unpublished report prepared for Oregon Department of Transportation, Personal Services Contract 11688, January 1995.
- Goldfinger, C., Kulm, L.D., Yeats, R.S., Appelgate, B, MacKay, M.E., and Cochrane, G.R., 1996, Active strike-slip faulting and folding of the Cascadia Subduction-Zone plate boundary and forearc in central and northern Oregon: in Assessing earthquake hazards and reducing risk in the Pacific Northwest, v. 1: U.S. Geological Survey Professional Paper 1560, P. 223-256.
- Madin, I.P., 1990, Earthquake hazard geology maps of the Portland metropolitan area, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report 0-90-2, scale 1:24,000, 22 p.
- Oregon Department of Geology and Mineral Industries, 2020, Oregon Hazvu: Statewide Geohazards Viewer: https://gis.dogami.oregon.gov/hazvu/
- Peterson, C.D., Darioenzo, M.E., Burns, S.F., and Burris, W.K., 1993, Field trip guide to Cascadia paleoseismic evidence along the northern California coast: evidence of subduction zone seismicity in the central Cascadia margin: Oregon Geology, v. 55, p. 99-144.
- Schlicker, H.G. and R.J. Deacon, 1967, Engineering Geology of the Tualatin Valley Region; Oregon Department of Geology and Mineral Industries, Bulletin 60, 103 p., 4 plates, scale 1:48,000.
- Unruh, J.R., Wong, I.G., Bott, J.D., Silva, W.J., and Lettis, W.R., 1994, Seismotectonic evaluation: Scoggins Dam, Tualatin Project, Northwest Oregon: unpublished report by William Lettis and Associates and Woodward Clyde Federal Services, Oakland, CA, for U. S. Bureau of Reclamation, Denver CO (in Geomatrix Consultants, 1995).
- Werner, K.S., Nabelek, J., Yeats, R.S., Malone, S., 1992, The Mount Angel fault: implications of seismic-reflection data and the Woodburn, Oregon, earthquake sequence of August, 1990: Oregon Geology, v. 54, p. 112-117.
- Wong, I. Silva, W., Bott, J., Wright, D., Thomas, P., Gregor, N., Li., S., Mabey, M., Sojourner, A., and Wang, Y., 2000, Earthquake Scenario and Probabilistic Ground Shaking Maps for the Portland, Oregon, Metropolitan Area; State of Oregon Department of Geology and Mineral Industries; Interpretative Map Series IMS-16.
- Yeats, R.S., Graven, E.P., Werner, K.S., Goldfinger, C., and Popowski, T., 1996, Tectonics of the Willamette Valley, Oregon: in Assessing earthquake hazards and reducing risk in the Pacific Northwest, v. 1: U.S. Geological Survey Professional Paper 1560, P. 183-222, 5 plates, scale 1:100,000.
- Yelin, T.S., 1992, An earthquake swarm in the north Portland Hills (Oregon): More speculations on the seismotectonics of the Portland Basin: Geological Society of America, Programs with Abstracts, v. 24, no. 5, p. 92
## CHECKLIST OF RECOMMENDED GEOTECHNICAL TESTING AND OBSERVATION

ltem No.	Procedure	Timing	By Whom	Done
1	Preconstruction meeting	Prior to beginning site work	Contractor, Developer, Civil and Geotechnical Engineers	
2	Fill removal from site or sorting and stockpiling	Prior to mass stripping	Soil Technician/ Geotechnical Engineer	
3	Stripping, aeration, and root-picking operations	During stripping	Soil Technician	
4	Compaction testing of engineered fill (95% of Standard Proctor)	During filling, tested every 2 vertical feet	Soil Technician	
5	Compaction testing of trench backfill (95% of Modified Proctor)	During backfilling, tested every 4 vertical feet for every 200 lineal feet	Soil Technician	
6	Pavement Subgrade Compaction (95% of Standard Proctor)	Prior to placing base course	Soil Technician	
7	Base course compaction (95% of Modified Proctor)	Prior to paving, tested every 200 lineal feet	Soil Technician	
8	AC Compaction (92% of Rice)	During paving, tested every 200 lineal feet	Soil Technician	
9	Final Geotechnical Engineer's Report	Completion of project	Geotechnical Engineer	







Proj	ect: F S	'olley Sherw	Indust ood, C	trial Drego	'n		Project No. 20-5500	Test Pit No. <b>TP-1</b>				
Depth (ft)	Pocket Penetrometer (tons/ft <sup>2</sup> )	Sample Type	In-Situ Dry Density (Ib/ft <sup>3</sup> )	Moisture Content (%)	Water Bearing Zone		Material Descri	ption				
						Moderately organ (Topsoil Horizon)	ic SILT (OL-ML), light brown,	, roots throughout, soft, moist				
1-	3.0 3.5					Stiff to very stiff, clayey SILT (ML), light brown, micaceous, subtle orange and gray mottling, moist (Fine Grained Catastrophic Flood Deposits)						
2—		1										
3— 4— 5— 6—						Dense, silty GRAVEL, COBBLES, and BOULDERS (GM), gray to brown, subrounded to subangular, boulders are up to 24 inches in diameter, trace roots to 6 feet, moist (Coarse Grained Catastrophic Flood Deposits)						
7— 8—												
9— 10—						Stiff, SILT (ML), li (Fine Grained Ca	ight brown, micaceous, strong tastrophic Flood Deposits)	g orange and gray mottling, moist				
							Test Pit Terminated	at 11 Feet.				
12—							Note: No seepage or ground	dwater encountered.				
13—												
14—		1										
15— —												
LEGE	IND	C			$\begin{bmatrix} \bullet \\ \bullet \end{bmatrix}$			Date Excavated: 5/14/2020				
1 1 Bag	00 to ,000 g	5 G Buc Bucket	Sample	Shelby	/ Tube S;	ample Seepage Water B	earing Zone Water Level at Abandonment	Logged By: B. Rapp Surface Elevation:				



Proj	ect: F	olley Sherw	Indust ood, C	trial Drego	n		Project No. 20-5500	Test Pit No. <b>TP-2</b>	)					
Depth (ft)	Pocket Penetrometer (tons/ft <sup>2</sup> )	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Description							
						Moderately organic SILT (OL-ML), light brown, roots throughout, soft, moist (Topsoil Horizon)								
1 —	2.0													
2-	3.0					Stiff to very stiff, clayey SILT (ML), light brown, micaceous, subtle orange and gray mottling, trace fine roots, moist (Fine Grained Catastrophic Flood Deposits)								
3—	3.5													
4-														
5—						Dense, siltv GRA	Dense silty GRAVEL COBBLES and BOULDERS (GM) grav to brown							
6_						Jense, silty GRAVEL, COBBLES, and BOULDERS (GM), gray to brown, subrounded to subangular, boulders are up to 30 inches in diameter, moist (Coarse Grained Catastrophic Flood Deposits)								
_						Coarse Grained Catastrophic Flood Deposits)								
7—														
o														
9—														
10									·					
10-						Stiff, SILT (ML), I	ight brown, micaceous, stron	g orange and gray mottling	, moist					
11 —						(Fine Grained Ca	lastrophic Flood Deposits)							
-														
12-							Test Pit Terminated	at 12 Feet						
13—							Note: No seenade or around	dwater encountered						
_							Note. No seepage of ground	dwater encountered.						
14—														
15—														
LEGE	ND	C			°	A 1	77	Date Excavated: 5/14/202	20					
) 1 1,	00 to 000 g	5 G Bud	Gal. Sket			00		Logged By: B. Rapp						
Bag	Sample	Bucket	Sample	Shelby	Tube Sa	ample Seepage Water B	earing Zone Water Level at Abandonment	Surface Elevation:						

Geo	CeoPacific Engineering, Inc.		1483 Porti Tel: (	5 SW and, C 503) 5	72nd Drego 598-84	Avenue n 97224 45 Fax: (503) 941-5	9281 <b>T</b>	EST PIT LOG				
Proje	ect: P S	olley Sherwo	Indust ood, C	trial Drego	'n		Project No. 20-5500	Test Pit No. <b>TP-3</b>				
Depth (ft)	Pocket Penetrometer (tons/ft²)	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Descri	ption				
 1						Moderately organic SILT (OL-ML), light brown, roots throughout, soft, moist (Topsoil Horizon) Medium hard (R3) to hard (R4) BASALT, gray, trace black staining, fractured, moist (Columbia River Basalt)						
2—  3—						I M	Practical Refusal on Hard (R4) Basalt at 1 Foot. Note: No seepage or groundwater encountered.					
4—  5—												
6- -												
7— — 8—												
9—  10—												
 11 												
12— — 13— —												
14—  15—												
LEGEN	ND 0 to 00 g Sample	5 G Bucket	Sal. sket Sample	Shelby	Tube Sa	ample Seepage Water B	earing Zone Water Level at Abandonment	Date Excavated: 5/14/2020 Logged By: B. Rapp Surface Elevation:				



Proj	ect: F	olley Sherwo	Indust ood, C	rial )rego	n		Project No. 20-5500	Test Pit No.	TP-4			
Depth (ft)	Pocket Penetrometer (tons/ft <sup>2</sup> )	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Description					
						Moderately organ soft, moist (Topso	Moderately organic SILT (OL-ML), trace gravel fill, light brown, roots throughout, soft, moist (Topsoil Horizon)					
1 —	2.0											
2-	2.0					Stiff to very stiff, clayey SILT (ML), light brown, micaceous, strong orange and gray mottling, moist (Fine Grained Catastrophic Flood Deposits)						
<u> </u>	2.0					g ,	gray motuling, moist (Fine Grained Catastrophic Flood Deposits)					
3—	3.0											
-												
5—						Dense to verv de	nse, silty GRAVEL, COBBLE	S. and BOULDERS	(GM), grav to			
6-						brown, subrounde	ed to subangular, boulders ar	re up to 12 inches in	diameter,			
-												
7—					0							
8					000							
						Medium hard (R3 moist (Columbia	) to hard (R4) BASALT, gray River Basalt)	, trace black staining	g, vesicular,			
9—												
10-						Ρ	ractical Refusal on Hard (R4)	Basalt at 8.5 Feet.				
						Not	e: Groundwater seepage en	countered at 7.5 fee	t.			
11—						DISC	narge visually estimated at <	1/4 gallon per minut	с.			
12—												
13—												
 14—												
15—												
LEGE	ND											
E E E E E E E E E E E E E E E E E E E	00 to 000 g Sample	5 G Buc Bucket	Sal. Sket	Shelby	Tube Sa	ample Seepage Water B	earing Zone Water Level at Abandonment	Date Excavated: 5/ Logged By: B. Rap Surface Elevation:	/14/2020 op			



Proj	ect: F	olley Sherwo	Indust ood, C	rial )rego	n		Project No. 20-5500	Test Pit No. <b>TP-5</b>					
Depth (ft)	Pocket Penetrometer (tons/ft <sup>2</sup> )	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Descri	ption					
_						Moderately organ (Topsoil Horizon)	ic SILT (OL-ML), brown, root	s throughout, soft, moist					
1 —	3.0												
2—	3.5					Stiff to very stiff, clayey SILT (ML), light brown, micaceous, strong orange and gray mottling, trace large roots to 3.5 feet, moist (Fine Grained Catastrophic							
	25						Flood Deposits)						
_	2.0												
4—	3.5												
5—													
6													
_						Dense, silty GRAVEL, COBBLES, and BOULDERS (GM), gray to brown, subrounded to subangular, boulders are up to 12 inches in diameter, moist							
7—						(Coarse Grained Catastrophic Flood Deposits)							
8—													
_						Soft (R2) BASAL	T, gray, fractured, trace black	staining, vesicular, trace yellow					
10-						secondary minera	alization, moist (Columbia Riv	ver Basalt)					
11—													
 12							Test Pit Terminated	at 11 Feet.					
_							Note: No seepage or ground	dwater encountered.					
13-													
14—													
 15—													
LEGE	ND 00 to 000 g Sample	5 G Bucket	Gal. Sket	Shelby	Tube Sa	ample Seepage Water Bo	earing Zone Water Level at Abandonment	Date Excavated: 5/14/2020 Logged By: B. Rapp Surface Elevation:					



Proj	ect: F	Polley Sherwo	Indust ood, C	trial Drego	n		Project No. 20-5500	Test Pit No. <b>TP-6</b>				
Depth (ft)	Pocket Penetrometer (tons/ft²)	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Description					
_						Moderately to hig moist (Topsoil Ho	hly organic SILT (OL-ML), br prizon)	own, fine roots throughout, soft,				
1 —	3.5						`					
_	4 E					Stiff to very stiff, SILT (ML), trace clay, light brown to gray, micaceous, strong						
2—	4.5					gray motuling, mo	gray mottling, moist (Fine Grained Catastrophic Flood Deposits)					
3—	3.0											
_	0 F											
4—	3.5											
5—												
_												
6—												
7—						Dense to come de						
_						brown, subround	Dense to very dense, silty GRAVEL, COBBLES, and BOULDERS (GM), gray to brown, subrounded to subangular, boulders are up to 30 inches in diameter,					
8—						trace black staini	ng, moist (Coarse Grained C	atastrophic Flood Deposits)				
9-												
_												
10-												
 11						Pr	actical Refusal on dense to v	very dense GRAVEL, RS at 10 Feet				
_						Ne	oto: Groundwater soonage e	ncountered at 9 feet				
12—						Dis	charge visually estimated at	1/2 gallon per minute.				
 13												
14—												
-												
LEGE	ND		<u> </u>	1	<b>□</b>	1		Data Executad: 5/11/2020				
1 1 Bag	00 to 000 g Sample	5 G Buc Bucket	Sample	Shelby	Tube Sa	Image: Seepage Water Bearing Zone Water Level at Abandonment Date Excavated: 5/14/2020   Logged By: B. Rapp Surface Elevation:						



Proj	ect: F	olley Sherwo	Indust ood, C	trial Drego	n		Project No. 20-5500	Test Pit No. <b>TP-7</b>				
Depth (ft)	Pocket Penetrometer (tons/ft²)	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Description					
						Moderately to hig moist (Topsoil Ho	hly organic SILT (OL-ML), lig vrizon)	ht brown, roots throughout, soft,				
1 —	2.0				0	<b></b> `_ <b>±</b>						
2_	15				000							
۲ 												
3—	2.5											
	2.0					Stiff to very stiff, or gray mottling, trace	clayey SILT (ML), light brown ce fine roots, moist (Fine Gra	, micaceous, subtle orange and ined Catastrophic Flood Deposits)				
	2.0											
5—												
6-												
_												
7—												
8-												
_												
9—						Medium stiff, PEA	AT (PT), with silt, brown, spor	ngy texture, moist (Peat Deposit)				
 10—					20	[Organic content	= 14.25% - high organic cont	ent] 				
						Dense, silty GRA to 12" in diamete	VEL, COBBLES, and BOULD r, moist to wet (Coarse Grain	DERS (GM), gray, boulders are up ed Catastrophic Flood Deposits)				
11—												
12—						Very soft (R1) BA low secondary mi	SALT, gray, fractured, trace neralization, moist (Columbia	black staining, vesicular, trace yel- a River Basalt)				
13—							Toot Dit Torminotod a	at 12 Epot				
14—						Notes (						
_						Disc	charge visually estimated at 1	1/2 gallon per minute.				
15—												
LEGE	ND	_			<b> </b>			Dete Evenueted, 5/4 4/0000				
1	00 to	5 G Bur	Gal.			Date Excavated: 5/14/2020 Logged By: B. Rapp						
1 Bag	000 g Sample	Bucket	Sample	Shelby	Tube Sa	ample Seepage Water Be	earing Zone Water Level at Abandonment	Surface Elevation:				



Proj	ect: F	olley Sherwo	Indust ood, C	trial Drego	n		Project No. 20-5500	Test Pit No. <b>TP-8</b>				
Depth (ft)	Pocket Penetrometer (tons/ft <sup>2</sup> )	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Descri	ption				
						Moderately to hig	hly organic SILT (OL-ML), br	own, fine roots throughout, soft,				
1 —	4.0											
_												
2—	2.0					Stiff to very stiff, S gray mottling, mo	SILT (ML), trace clay, light bro ist (Fine Grained Catastrophi	own to gray, micaceous, strong c Flood Deposits)				
3—	3.0					<b>0</b>	Jiay motuling, moist (i me Grained Catastrophic i lood Deposits)					
_												
4—	4.5											
_												
6—												
_												
/-						Dense to very de	nse, silty GRAVEL, COBBLE	S, and BOULDERS (GM), gray to				
8-						trace black staini	ng, moist (Coarse Grained C	atastrophic Flood Deposits)				
_												
9—												
10-												
_						Pra	ctical Refusal on dense to ve	ry dense GRAVEL,				
11—							COBBLES, and BOULDER	S at 10 Feet.				
						No	ote: No seepage or groundwa	ater encountered.				
13—												
-												
14 —												
15—												
_												
LEGE	ND	C			°			Date Excavated: 5/14/2020				
1	00 to	5 G Buc	Gal. Sket					Logged By: B. Rapp				
Bag	Sample	Bucket	Sample	Shelby	Tube Sa	ample Seepage Water B	earing Zone Water Level at Abandonment	Surface Elevation:				



Project:	Polley Sherw	Indust ood, C	trial Drego	n		Project No. 20-5500	Test Pit No. <b>TP-9</b>
Depth (ft) Pocket Penetrometer	Sample Type	In-Situ Dry Density (Ib/ft³)	Moisture Content (%)	Water Bearing Zone		Material Descri	ption
1 23 45 6					Loose to mediun consisting of cor organic debris, s	n dense, silty GRAVEL (GM) ncrete slabs, metal, bricks, ar ignificant sidewall caving, mo	with abundant inorganic debris nd fabric, brown to gray, trace bist (Undocumented Fill)
7— — 8— —					Stiff to very stiff, gray mottling, mo	clayey SILT (ML), light browr bist (Fine Grained Catastroph	n, micaceous, strong orange and nic Flood Deposits)
9 10 10 11 11 12 13 14 15 _						Test Pit Terminated	d at 9 Feet. dwater encountered.
LEGEND 100 to 1,000 g Bag Sample	5 C Bucket	Gal. cket Sample	Shelby	Tube Sa	Imple Seepage Water Bu	earing Zone Water Level at Abandonment	Date Excavated: 5/14/2020 Logged By: B. Rapp Surface Elevation:



Pı	oject:	Polley Sherw	Indus vood, (	strial Orego	n	Project No. 20	-5500	HA -1	
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone		otion			
					Moderately to highly organic SILT (OL-ML), light brown, roots throughout, soft, moist (Topsoil Horizon)				
1					Stiff to very s mottling, trac	stiff, clayey SILT (ML), lig ce fine roots, moist (Fine	ht brown, mica Grained Catast	ceous, subtle orange and gray trophic Flood Deposits)	
2—									
3—				000					
4—					ŀ	Hand auger terminated a	it ~4' due practi	ical refusal on gravel	
						Groundwater se	epage observe	d at ~3' bgs.	
_									
6—									
7 —									
_									
o — 									
9 —									
LEGE	ND								
2202 11 1,1 Bag	D0 to D00 g Sample	Split-S	Spoon	Shelby T	ube Sample Se	Seepage Static Water Table	Water Bearing Zone	Date Drilled: 05/26/20 Logged By: LDG Surface Elevation: <u>141 ft</u>	



Pr	oject:	Polley Sherw	' Indus vood, (	strial Drego	n	Pro	oject No. 20-	5500	HA - 2	
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone		otion				
					Moderately to moist (Topsoi	b highly organic SILT (OL-ML), light brown, roots throughout, soft, il Horizon)				
1 —  2 —				000	Stiff to very s mottling, trac	tiff, clayey e fine roots	SILT (ML), ligh , moist (Fine (	nt brown, mica Grained Catast	ceous, subtle orange and gray trophic Flood Deposits)	
3—										
4-										
5								<b></b>		
_						Hand augel (Coa Gro	r terminated at irse Grained C oundwater see	atastrophic Flore	ical refusal on gravel bod Deposits) d at ~2' bgs.	
6 — 										
7 —										
8-										
_										
LEGE	ND 00 to 000 g Sample	Split-S	Spoon	Shelby T	ube Sample St	eepage	 Static Water Table	Water Bearing Zone	Date Drilled: 05/26/20 Logged By: LDG Surface Elevation: <u>141 ft</u>	



Project: Polley Industrial Sherwood, Oregon						Project No.	20-5500	HA - 3						
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone		Μ	aterial Descri	ption						
					Moderately to moist (Topso	Moderately to highly organic SILT (OL-ML), light brown, roots throughout, soft, noist (Topsoil Horizon).								
1_					Stiff to very st	Stiff to very stiff, clayey SILT (ML), light brown, micaceous, subtle orange and gray								
1														
2														
2-														
					н	land auger terminated (Coarse Grain)	d at ~2.5' due prac d Catastrophic F	ctical refusal on gravel lood Deposits)						
3-						No g	roundwater obser	ved.						
4—														
_														
5 —														
_														
6—														
_														
7 —														
8-														
_														
9 —														
LEGE					<u> </u>			-1						
		F	f		0			Date Drilled: 05/26/20 Logged By: LDG						
1, Bag	000 g Sample	لے Split-٤	Spoon	Shelby 1	Lube Sample S	eepage Static Water Ta	able Water Bearing Zone	Surface Elevation: <u>147 ft</u>						



Project: Polley Industrial Sherwood, Oregon					n	Pro	oject No. 20	-5500	HA - 4				
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone		Material Description							
_					Surface Bould roots through	ders Obser out, soft, d	rved. Moderate lamp to moist (	ely to highly org Topsoil Horizo	ganic SILT (OL-ML), light brown, on)				
1-					Hand a	auger termi	inated at ~1.5' (Columbia R No grou	due practical i liver Basalt Fo ndwater obser	refusal on weathered basalt rmation) ved.				
2 <i>—</i> —													
3-													
4 —													
 5													
_													
6 — —													
7 —													
8 —													
 9 —													
LEGE	ND 00 to 000 g Sample	Split-S	Spoon	Shelby T	ube Sample Se	eepage	_√_ Static Water Table	Water Bearing Zone	Date Drilled: 05/26/20 Logged By: LDG Surface Elevation: <u>147 ft</u>				



Project: Polley Industrial Sherwood, Oregon					n	Pro	oject No. 20	-5500	HA - 5					
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone		Material Description								
					Surface Bould	ace Boulders Observed. Moderately to highly organic SILT (OL-ML), light brown, s throughout, soft, moist (Topsoil Horizon)								
1—					Stiff to very sti mottling, trace	iff to very stiff, clayey SILT (ML), light brown, micaceous, subtle orange and gray ottling, trace fine roots, damp to moist (Fine Grained Catastrophic Flood Deposits)								
2-					F	land auger (Co	r terminated at arse Grained ( No grou	~1.5' due prac Catastrophic FI ndwater obser	ctical refusal on gravel ood Deposits) ved.					
3 —														
_														
4 —														
_														
5 —														
_														
6 —														
_														
7 —														
_														
8 —														
_														
9 —														
_														
LEGE	ND				· · · · · · · · · · · · · · · · · · ·				Date Drilled: 05/26/20					
) [1( 1,( Bag	00 to 000 g Sample	Split-S	Spoon	Shelby T	ube Sample Se	eepage	 Static Water Table	Water Bearing Zone	Logged By: LDG Surface Elevation: <u>143 ft</u>					



Project: Polley Industrial Sherwood, Oregon					n	Projec	ct No. 20-	5500	HA - 6					
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone		Material Description								
_					Moderately to moist (Topsoi	loderately to highly organic SILT (OL-ML), light brown, roots throughout, soft, noist (Topsoil Horizon)								
1 —   _					Hand	Hand auger terminated at ~1' due practical refusal on weathered basalt (Columbia River Basalt Formation) No groundwater observed.								
2—														
3—														
4 —														
5 —														
6 —														
_														
8—														
9 —														
LEGE	ND 00 to 000 g Sample	Split-S	Spoon	Shelby T	ube Sample Se	pepage Sta		Water Bearing Zone	Date Drilled: 05/26/20 Logged By: LDG Surface Elevation: <u>143 ft</u>					



Project: Polley Industrial Sherwood, Oregon						Pro	oject No. 20-	-5500	HA - 7		
Depth (ft)	Sample Type	N-Value	Moisture Content (%)	Water Bearing Zone			Mate	erial Descrip	otion		
- 1- 2- 3- 4-				000	Moderately to <u>moist (Topsoi</u> Stiff to very st mottling, trace	highly org I <u>Horizon</u> iff, clayey fine roots	anic SILT (OL SILT (ML), ligh , moist (Fine G	-ML), light brow t brown, micac Grained Catast	vn, roots throughout, soft, eous, subtle orange and gray rophic Flood Deposits)		
5 — 6 — 7 — 8 — 9 —					   	Hand auger terminated at ~5' due practical refusal on gravel (Coarse Grained Catastrophic Flood Deposits) Groundwater seepage observed at ~2' bgs.					
LEGE	ND 00 to 000 g Sample	Split-S	Spoon	Shelby T	ube Sample Se	eepage	Static Water Table	Water Bearing Zone	Date Drilled: 05/26/20 Logged By: LDG Surface Elevation: <u>145 ft</u>		

	Project Name:	Polley Inc	dustrial Site	Project No.: 20-5500	Sampled By:	EKR
	Sample ID: S20-137	Depth:	9'-10'		Sample Date:	5/14/2020
Georaciic	Location:		TP-7		Tested By:	SJC
Engineering, Inc.	Material Type:		Peat		Tested Date:	5/18/2020
Moisture						
Taro Numbor:	10		Grain Siza Data			

Tare Number: Tare Wt.: Tare + Wet Soil: Tare + Dry Soil: Percent Moisture:

Tare+Pre-Wash: Tare+Post-Wash: -#200 From Wash: Pre-Wash Mass: % Passing No. 200

rale Number.	10		Grai
Tare Wt.:	261.7		Si
Tare + Wet Soil:	678.4		S
Tare + Dry Soil:	456.9		/(max wt ind
Percent Moisture:	113.5		
			1
Organic Content	ASTM D 2974 a	t 440°F	
Tare Number:	5	6	3/4
Tare Wt.:	25.74	26.21	1/2
Tare + Pre-Oven:	48.51	48.95	3/8
Tare + Post-Oven:	45.33	45.66	
Percent Organic:	14.0	14.5	#4
	Average:	14.25	;
No. 200 Wash Data			#10
Tare Number			#
Tare Wt:			#
Tare+Pre-Wash:			#4(
Tare+Post-Wash:			#
-#200 From Wash:			#10
Pre-Wash Mass:			#20

Grain Size	<u>Data</u>	
Sieve	Individual	Individual
Size	Weight	Weight
/(max wt individually retained)	Retained	Retained
3"		
1.5"		
1"		
3/4 / 900		
1/2 / 570		
3/8 / 550		
1/4		
#4 / 325		
#8		
#10 / 180		
#16		
#30		
#40 / 75		
#50		
#100 / 40		
#200 / 20		
Pan		

Atterberg	Analysis L	<u>.</u>				Atterberg	Atterberg Analysis Pl		
	Point 1	Point 2	Point 3	Point 4	Point 5	Point 1	Point 2	Point 3	
Tare #									
Tare Wt.									
Wet Wt									
Dry Wt									
# of Blows									



# Appendix F: References and Code



## CONSTRUCTION

- 1. Detention Pond shall be over-excavated and filled to final grade with 12-inch amended topsoil. Topsoil amendments shall be garden compost, not conventional fertilizer amendments.
- 2. A biodegradable Erosion Control Matting shall be placed over the topsoil throughout the Detention Pond cross section, fabric shall be held in place in accordance with the manufacturer's installation requirements. Anchor spacing shall be based on 3 fps flow over the fabric.
  - a. Pond bottom high-density jute matting (Geojute Plus or other approved equal)
  - b. All other areas low-density jute matting (Econojute or other approved equal)
- 3. Plant materials shall be placed in accordance with the plan and plant table as shown on approved plans.
- 4. The facility shall be deemed acceptable to begin the maintenance period when plant growth and density matches the Engineer's design as shown on the approved plans and all other requirements have been met. The Engineer must certify the facility to be functional, in accordance with the approved plan design to begin the two-year maintenance period..

## MAINTENANCE

- 1. The permittee is responsible for the maintenance of this facility for a minimum of two years following construction and acceptance of this facility per Chapter 2.
- Irrigation is to be provided per separate irrigation plan as approved. Note: Irrigation needs are to be met using a temporary irrigation system with a timer during the dry season. Systems should be winterized during the wet season to assure longevity and guard against damage from freezing temperatures. Water source shall be as shown on the approved plans.
- 3. Engineer or Owner's Representative is required to perform Monitoring and Maintenance of the Site and provide Documentation as required in Appendix A, 2.5 of the Design and Construction Standards. The Approved Plans shall include a Maintenance Schedule per Appendix A, 2.6.e of the Design and Construction Standards.
- 4. The Facility shall be re-excavated and planted if siltation greater than 3 inches in depth occurs within the two-year maintenance period.



### Appendix A

## PLANTING REQUIREMENTS

## **1.0 INTRODUCTION**

### 1.1 General

The District recognizes the importance of Water Quality Sensitive Areas, Vegetated Corridors, and Stormwater Facilities that, along with the Tualatin River, are under its jurisdiction. To improve water quality and preserve aquatic species, and meet the intent of both the federal Clean Water and the Endangered Species Acts, the District developed requirements for planting of Vegetated Corridors, Sensitive Areas, and Stormwater Facilities.

Successful revegetation is critical to the proper function of Sensitive Areas, Vegetated Corridors, and Stormwater Facilities for the benefit of water quality and quantity management, and aquatic species preservation. This Appendix aids professionals, the development community, and field crews in planning, designing and implementing successful revegetation projects in these areas. This document guides design decisions to promote successful planting efforts, while allowing flexibility to address opportunities and constraints at each site.

### 1.2 Jurisdiction

Most Sensitive Areas are regulated by the Division of State Lands (DSL) and/or the U.S. Army Corps of Engineers (Corps). Where the Corps and/or DSL permit mitigation, planting plans for these areas shall follow DSL and Corps guidelines and approved plans. Vegetated Corridors and Stormwater Facilities are regulated by the District and the plans and management strategies for these areas shall follow the steps outlined in this document. Alternative plans and management strategies may be approved by the District.

1.3 Professional Assistance

Revegetation in Sensitive Areas, Vegetated Corridors and Stormwater Facilities should facilitate succession toward low-maintenance plant communities. Consultation with a professional landscape architect, ecologist, or horticulturist knowledgeable in native plants is highly recommended when preparing plans. Satisfying the landscaping requirements may require the services of a registered landscape architect. See ORS 671.310 through 671.459.

Non-native, invasive plant management and wildlife damage management strategies are provided in Clean Water Services *Integrated Pest Management (IPM) Plan.* Especially challenging management situations may require assistance from a landscape maintenance contractor or a wildlife biologist.

## 2.0 PLANTING PLAN METHODS

Planting plans shall be required for development projects with Vegetated Corridors or Stormwater Facilities. When a planting plan is required, four major components shall be addressed: hydrology, soils, plant materials, and maintenance. When developing planting plans, the following steps should be used:

- 2.1 Step 1: Assess Hydrologic and Hydraulic Conditions
  - a. Determine the frequency and duration of water inundation, including appropriate elevations of the revegetation area. Watershed hydrology and hydraulic models for major streams are available from the District. In some cases, current site conditions (i.e. wetland presence) will suffice. For Stormwater Facilities, the models used to design and size the facility shall be used to determine frequency, duration and surface water elevations within the facility.
  - b. Assign appropriate hydrologic zones to the revegetation area and apply them to the plan. Most project sites include one or more of the following planting zones with respect to hydrology during the growing season:
    - 1. Wet standing or flowing water/nearly constant saturation; anaerobic soils
    - 2. Moist periodically saturated; anaerobic and/or aerobic soils
    - 3. Dry infrequent inundation/saturation, if any; aerobic soils
- 2.2 Step 2: Assess Soil Conditions and Assign Appropriate Preparation Specifications to Plans
  - a. Determine the organic content and non-native, invasive seed bank likely in the soil. For most Stormwater Facilities, the soil is often high in clay, gravel, or minerals devoid of topsoil and organic material, and/or high in non-native, invasive weed content. The conditions in Sensitive Areas and Vegetated Corridors vary greatly.
  - b. For upland sites with at least one foot of native topsoil, but containing a nonnative, invasive seed bank or plants, add notes to the plan to remove the undesirable plants, roots, and seeds (*see IPM Plan*) prior to planting.
  - c. For upland sites with either disturbed and compacted soils or less than one foot of topsoil and invasive, non-native seed bank or plants that have become established, the following notes shall be added to the plan:
    - 1. Remove the undesirable plants, roots, and seeds (*see IPM Plan*) prior to adding topsoil.

- 2. Till the sub-grade in these areas to a depth of at least four inches and add at least 12 inches of clean compost-amended topsoil. The compost-amended topsoil shall have the following characteristics to ensure a good growing medium:
  - A) Texture material passes through one-inch screen
  - B) Fertility 35% organic matter
- 3. In the event of floodplain grading, over-excavate the sub grade to ensure 12 inches of topsoil can be applied without impacting surface water elevations.
- d. For wet areas in Sensitive Areas and Stormwater Facilities, the soil conditions shall be hydric or graded to hold sufficient water to promote hydric soil formation. The addition of organic muck soil will improve plant establishment for some bulbs and tubers.
- e. Where appropriate and necessary for erosion control or to enhance organic matter, leaf compost may be placed uniformly on topsoil. (Refer to Chapter 6, Erosion Prevention and Sediment Control). Other amendments, conditioners, and bio-amendments may be added as needed to support the specified plants or adjust the soil pH. Traditional fertilization techniques (applying N-P-K) are not necessary for native plants.
- 2.3 Step 3: Identify Plants to be Preserved, Select Revegetation Plant Materials, Quantities, Placement, and Assign Planting Zones and Specifications to Plans
  - a. Preservation: Every effort shall be made to protect a site's existing native vegetation. Native vegetation along Sensitive Areas and Vegetated Corridors shall be retained to the maximum extent practicable.
  - b. Selection: Plant selection shall be from a native species palette and shall consider site soil types, hydrologic conditions, and shade requirements. Containerized or bare root plants may be used. A list of common native plant community types appropriate for planting Sensitive Areas, Vegetated Corridors and Stormwater Facilities is provided in Table A-1. Upon approval from the District, limited use of non-invasive non-native plants may be permitted in highly urbanized and other unique settings such as regional town centers. Unless approved by District staff, planting restrictions are limited to the following:
    - 1. Deep rooting trees and shrubs (e.g. willow) shall not be planted on top of concrete pipes, or within 10 feet of retaining walls, inlet/outlet structures or other culverts; and

- 2. Large trees or shrubs shall not be planted on berms over four feet tall that impound water. Small trees or shrubs with fibrous root systems may be installed on berms that impound water and are less than four feet tall.
- c. Quantities:
  - Vegetated Corridors and Sensitive Areas Trees and shrubs shall be planted using the following equations to achieve the specified densities on a per acre basis.
    - A) Total number of trees per acre = area in square feet x 0.01
    - B) Total number of shrubs per acre = area in square feet x 0.05
    - C) Groundcover = plant and seed to achieve 100% areal coverage
  - 2. Stormwater Facilities
    - A) Stormwater Facilities in tracts or easements less than 30 feet wide shall be planted using the following equations to achieve the specified densities on a per acre basis:
      - i. Total number of shrubs per acre = area in square feet x 0.05
      - ii. Groundcover = plant and seed to achieve 100% areal coverage
    - B) Stormwater Facilities in tracts or easements 30 feet wide or more shall be planted using the following equations to achieve the specified densities on a per acre basis:
      - i. Total number of trees per acre = area in square feet x 0.01
      - ii. Total number of shrubs per acre = area in square feet x 0.05
      - iii. Groundcover = plant and seed to achieve 100% areal coverage
- d. Size: Potted plants shall follow size requirements outlined in Table A-1. Bare root plants shall be 12 to 16 inches long.
- e. Placement: Plant placement shall be consistent with naturally occurring plant communities. Trees and shrubs shall be placed in singles or clusters of the same species to provide a natural planting scheme. This arrangement may follow curved rows to facilitate maintenance. Distribution and relative abundance shall be dependent on the plant species and on the size of the revegetation area. The Vegetated Corridor revegetation area shall be overseeded with native seed mixes appropriate to the plant community and hydrologic zone of the site (see Table A-1: Plant Communities for Revegetation). Plant placement and seeding shall promote maximum vegetative cover to minimize weed establishment.

- 2.4 Step 4: Determine Plant Installation Requirements and Assign Specifications to Plans
  - a. Timing

Containerized stock shall be installed only from February 1 through May 1 and October 1 through November 15. Bare root stock shall be installed only from December 15 through April 15. Plantings outside these times may require additional measures to ensure survival which shall be specified on the plans.

b. Erosion Control

Grading, soil preparation, and seeding shall be performed during optimal weather conditions and at low flow levels to minimize sediment impacts. Site disturbance shall be minimized and desirable vegetation retained, where possible. Slopes shall be graded to support the establishment of vegetation. Where seeding is used for erosion control, an appropriate native grass, Regreen (or its equivalent), or sterile wheat shall be used to stabilize slopes until permanent vegetation is established. Biodegradable fabrics (coir, coconut or approved jute matting (minimum 1/4" square holes) may be used to stabilize slopes and channels. Fabrics such as burlap may be used to secure plant plugs in place and to discourage floating upon inundation. No plastic mesh that can entangle wildlife is permitted. Consult Chapter 6 - Erosion Prevention and Sediment Control for additional information.

c. Mulching

Trees, shrubs, and groundcovers planted in upland areas shall be mulched a minimum of three inches in depth and 18 inches in diameter, to retain moisture and discourage weed growth around newly installed plant material. Appropriate mulches are made from composted bark or leaves that have not been chemically treated. The use of mulch in frequently inundated areas shall be limited, to avoid any possible water quality impacts including the leaching of tannins and nutrients, and the migration of mulch into waterways.

d. Plant Protection from Wildlife

Depending on site conditions, appropriate measures shall be taken to limit wildlife-related damage (*see IPM Plan*).

e. Irrigation

Appropriate plant selection, along with adequate site preparation and maintenance, reduces the need for irrigation. However, unless site hydrology is currently adequate, a District/City approved irrigation system or equivalent (i.e., polymer, plus watering) shall be used during the two-year plant establishment period. Watering shall be at a minimum rate of at least one inch per week from June 15 through October 15. Other irrigation techniques, such as deep watering, may be allowed with prior approval by District staff. f. Access

Maintenance access for plant maintenance shall be provided for Sensitive Areas and Vegetated Corridors via a five-foot easement or shared boundary with Stormwater Facilities. Stormwater Facilities access requirements are provided in Chapter 4.

- 2.5 Step 5: Determine Plant Monitoring and Maintenance Requirements
  - a. Monitoring

Site visits are necessary throughout the growing season to assess the status of the plantings, irrigation, mulching, etc. and ensure successful revegetation.

b. Weed Control

The removal of non-native, invasive weeds shall be necessary throughout the maintenance period, or until a healthy stand of desirable vegetation is established (*see IPM Plan*).

- c. Plant Replacement and Preservation Installed plants that fail to meet the acceptance criteria (see Chapter 2) shall be replaced during the maintenance period. Prior to replacement, the cause of loss (wildlife damage, poor plant stock, etc.) shall be documented with a description of the corrective actions taken.
- 2.6 Step 6: Prepare Construction Documents and Specifications

The construction documents and specifications shall include:

- a. Sensitive Area and Vegetated Corridor boundaries as shown on the Service Provider Letter, including limits of approved, temporary construction encroachment. Orange construction fencing shall be noted at Vegetated Corridor boundaries as well as at encroachment limits during construction. Note permanent type fencing and signage between the development and the Vegetated Corridor for project completion is required.
- b. Site Preparation plan and specifications, including limits of clearing, existing plants and trees to be preserved, and methods for removal and control of invasive, non-native species, and location and depth of topsoil and or compost to be added to revegetation area.
- c. Planting plan and specifications, including all of the following:
  - 1. Planting table that documents the common name, scientific name, distribution (zone and spacing), condition and size of plantings
  - 2. Installation methods for plant materials
  - 3. Mulching
  - 4. Plant tagging for identification
  - 5. Plant protection
  - 6. Seeding mix, methods, rates, and areas

- d. Irrigation plan and specifications, including identification of water source, watering timing and frequency, and maintenance of the system.
- e. Maintenance schedule; including responsible party and contact information, dates of inspection (minimum three per growing season and one prior to onset of growing season) and estimated maintenance schedule (as necessary) over the two-year monitoring period.
- f. Easement descriptions for all Vegetated Corridor and Sensitive Areas that are required as part of the development.
- g. Good rated corridor notes i.e. invasive species removal resulting in cleared areas exceeding 25 square feet shall be replanted with native vegetation.
- h. Access points for installation and maintenance including vehicle access if available.
- i. Standard drawing details (north arrow, scale bar, property boundaries, project name, drawing date, name of designer and Property Owner).

TABLE A-1SUGGESTED PLANT COMMUNITIES FOR REVEGETATION

	Minimum						
	Species	Plant	Water	Light	Minimum	Minimum Plant	Spacing
Plant Commiunities	Composition	Category	Requirements	Requirements	Rooting Size	Height	Format
Riparian Forest (RF)							
Red alder (Alnus rubra)	Х	Tree	Moist	Sun	1 gal	3'	Single
Western red cedar (Thuja plicata)	Х	Tree	Moist	Shade	2 gal	2'	Single
Red elderberry (Sambucus racemosa)	Х	Shrub	Moist	Part	1 gal	1.5'	Single
Black twinberry (Lonicera involcrata)		Shrub	Moist	Part	1 gal	1.5'	Single
Red-osier dogwood (Cornus stoniferia)	Х	Shrub	Wet	Part	1 gal	2'	Cluster
Indian plum (Oemleris cerasiformis)	Х	Shrub	Moist	Shade	2 gal	2'	Cluster
Swamp rose (Rosa pisocarpa)		Shrub	Moist	Part	1 gal	1.5'	Cluster
Pacific ninebark (Pysocarpus capitatus)		Shrub	Moist	Shade	1 gal	2'	Single
Snowberry (Symphoricarpos albus)	Х	Shrub	Dry	Part	1 gal	1.5'	Cluster
Salmonberry (Rubus spectabilis)	Х	Shrub	Moist	Shade	1 gal	1.5'	Cluster
Maidenhair fern (Adiatum aleuticum)		Herb	Moist	Shade	4"	na	Cluster
Lady fern (Athyrium filix-femina)		Herb	Moist	Shade	1 gal	na	Cluster
Skunk cabbage (Lysichiton americanum)		Herb	Wet	Shade	bulbs	na	Cluster
False lily-of-the-valley (Maianthemum dilatatum)		Herb	Moist	Shade	bulbs, 4"	na	Cluster
Candy flower (Claytonia sibirica)		Herb	Moist	Shade	4"	na	Cluster
Miners lettuce (Montia perfoliata)		Herb	Moist	Shade	4"	na	Cluster
Stream violet (Viola glabella)		Herb	Moist	Shade	4"	na	Cluster
Youth-on-age (Tolmiea menziesii)		Herb	Moist	Shade	4"	na	Cluster
Insideout flower (Vancouveria hexandra)		Herb	Moist	Shade	4"	na	Cluster
Dewey's sedge (Carex deweyana)		Herb	Dry	Shade	plugs, 4"	4"	Mass
Hair bentgrass (Agrostis scabra)		Grass	Moist	Part	seed	na	Mass
Spike bentgrass (Agrostis exarata)	Х	Grass	Moist	Part	seed	na	Mass
Tall manna-grass (Glyceria elata)	Х	Grass	Moist	Part	seed	na	Mass

	Minimum						
	Species	Plant	Water	Light	Minimum	Minimum Plant	Spacing
Plant Communities	Composition	Category	Requirements	Requirements	Rooting Size	Height	Format
Upland Forest (UF)							
Red alder (Alnus rubra)	Х	Tree	Moist	Sun	1 gal	3'	Single
Big leaf maple (Acer macrophyllum)	Х	Tree	Dry	Sun	2gal	3'	Single
Douglas Fir (Pseudotsuga menziesii)	Х	Tree	Dry	Sun	2gal	3'	Single
Grand fir (Abies grandis)	Х	Tree	Dry	Sun	2 gal	2'	Single
Pacific yew (Taxus brevifolia)		Tree	Moist	Shade	2 gal	2'	Single
Cascara (Rhamnus purshiana)		Tree	Dry	Part	2 gal	2'	Single
Pacific dogwood (Cornus nuttallii)		Tree	Moist	Shade	1 gal	2'	Single
Bitter cherry (Prunus emarginata)		Tree	Moist	Part	2 gal	2'	Single
Vine Maple (Acer circinatum)	Х	Tree	Moist	Part	2 gal	2'	Single
Oceanspray (Holodiscus discolor)	Х	Shrub	Dry	Sun	1 gal	1.5'	Single
Red elderberry (Sambucus racemosa)	Х	Shrub	Moist	Part	1 gal	1.5'	Single
Red flowering currant (Ribes sanguineum)	Х	Shrub	Dry	Sun	1 gal	1.5'	Cluster
Cascade Oregon grape (Mahonia nervosa)		Shrub	Moist	Part	1 gal	4"	Cluster
Tall Oregon grape (Mahonia aquifolium)		Shrub	Dry	Sun	1 gal	6"	Single
Red huckleberry (Vaccinium parvifolium)		Shrub	Moist	Shade	1 gal	1.5'	Cluster
Thimbleberry (Rubus pariflorus)		Shrub	Moist	Shade	1 gal	1.5'	Cluster
Snowberry (symphoricarpos albus)	Х	Shrub	Dry	Part	1 gal	1.5'	Cluster
Baldhip Rose (Rosa gymnocarpa)	Х	Shrub	Dry	Part	1 gal	1.5'	Cluster
Serviceberry (Almelanchier alnifolia)		Shrub	Dry	Part	2 gal	2'	Single
Sword fern (Polystichum munitum)		Shrub	Moist	Shade	2 gal	na	Cluster
Deer fern (Blechnum spicant)		Herb	Moist	Shade	1 gal	na	Cluster
Orange honeysuckle (Lonicera ciliosa)		Herb	Moist	Shade	2 gal	na	Single
Salal (Gaultheria shallon)		Herb	Moist	Part	1 gal	4"	Cluster
Wood strawberry (Fragaria vesca)		Herb	Moist	Shade	4"	na	Cluster
Western trillium (Trillium ovatum)		Herb	Moist	Shade	4"	na	Cluster
Five-stemmed mitrewort (Mitella pentandra)		Herb	Moist	Shade	1 gal	na	Cluster
Red columbine (Aquilegia formosa)		Herb	Dry	Part	4"	na	Cluster
False solomon's seal (Smilacina racemosa)		Herb	Moist	Shade	4"	na	Cluster
Native California brome (Bromus carinatus)	Х	Grass	Dry	Sun	seed	na	Mass
Blue Wildrye (Elymus glaucus)	Х	Grass	Dry	Part	seed	na	Mass

	Minimum						
	Species	Plant	Water	Light	Minimum	Minimum Plant	Spacing
Plant Commiunities	Composition	Category	Requirements	Requirements	Rooting Size	Height	Format
Oak Woodland / Savanna (OW)							
Oregon white oak (Quercus garryana)	Х	Tree	Dry	Sun	2 gal	2'	Single
Snowberry (Symphoricarpos albus)	Х	Shrub	Dry	Part	1 gal	1.5'	Cluster
Serviceberry (Almelanchier alnifolia)	Х	Shrub	Dry	Part	1 gal	2'	Single
Oceanspray (Holodiscus discolor)	Х	Shrub	Dry	Sun	1 gal	1.5'	Cluster
Training blackberry (Rubus ursinus)		Shrub	Dry	Sun	1 gal	1.5'	Cluster
Cascade Oregon grape (Mahonia nervosa)		Herb	Moist	Part	1 gal	4"	Cluster
Blue wild-rye (Elymus glacus)	Х	Grass	Dry	Part	seed	na	Mass
Native California brome (Bromus carinatus)	Х	Grass	Dry	Sun	seed	na	Mass
Ash Forested Wetland (FW)							
Oregon Ash (Fraxinus latifolia)	Х	Tree	Moist	Part	2 gal	3'	Single
Pacific Ninebark (Physocarpus capitatus)	Х	Shrub	Moist	Shade	2 gal	2'	Single
Red-osier dogwood (Cornus sericea)	Х	Shrub	Wet	Part	1 gal	2'	Cluster
Snowberry (Symphoricarpus albus)	Х	Shrub	Dry	Part	1gal	1.5'	Cluster
Slough sedge (Carex obnupta)	Х	Herb	Moist	Part	plugs	6"	Mass
Candy flower (Claytonia sibirica)		Herb	Moist	Shade	4"	na	Cluster
Streambank springbeauty (Montia parvifolia)		Herb	Moist	Shade	4"	na	Cluster
Dewey's sedge (Carex deweyana)		Herb	Dry	Shade	plugs	4"	Mass
Small fruited bulrush (Scirpus microcarpus)		Herb	Wet	Sun	plugs	4"	Mass
Tall mannagrass (Glyceria elata)	Х	Grass	Moist	Shade	seed	na	Mass

	Minimum						
	Species	Plant	Water	Light	Minimum	Minimum Plant	Spacing
Plant Commiunities	Composition	Category	Requirements	Requirements	Rooting Size	Height	Format
Shrub / Scrub Wetland (SS)							
Pacific willow (Salix lasiandra)	Х	Tree	Wet	Sun	1 gal	3'	Single
Sitka willow (Salix sitchensis)		Tree	Moist	Sun	1 gal	3'	Cluster
Douglas hawthorne (Crataegus douglasii)		Tree	Moist	Part	2 gal	2'	Cluster
Pacific Crabapple (Malus fusca)	Х	Tree	Moist	Part	2 gal	2'	Cluster
Scouler willow (Salix scouleriana)	Х	Shrub	Moist	Sun	1 gal	3'	Cluster
Red-osier dogwood (Cornus sericea)	Х	Shrub	Wet	Part	1 gal	2'	Cluster
Clustered rose (Rosa pisocarpa)		Shrub	Wet	Part	1 gal	1.5'	Cluster
Douglas's spiraea (Spiraea douglasii)	Х	Shrub	Wet	Sun	1 gal	1.5'	Cluster
Nodding beggartick (Bidens cernua)		Herb	Wet	Sun	1 gal	1.5'	Cluster
Spreading rush (Juncus patens)		Herb	Moist	Part	plugs	6"	Mass
Western manna-grass (Glyceria occidentalis)	Х	Grass	Wet	Sun	seed	na	Mass
Emergent Marsh (EM)							
Nodding beggarstick (Bidens cernua)	Х	Herb	Moist	Sun	1 gal	1.5'	Cluster
Hardstem bulrush (Scirpus acutus)		Herb	Wet	Sun	plugs	1.5'	Cluster
Small-fruited bulrush (Scirpus microcarpus)	Х	Herb	Wet	Sun	plugs	6"	Mass
Creeping spike rush (Eleocharis palustris)	8	Herb	Wet	Sun	seed, plugs	4"	Mass
Wapato (Sagittaria latifolia)		Herb	Wet	Sun	bulbs	na	Cluster
American water plantain (Alisma plantago-aquatica)		Herb	Wet	Sun	bulbs	na	Cluster
Soft stemmed bulrush (Scirpus taberaemontani)		Herb	Wet	Sun	plugs	1.5'	Cluster
American brooklime (Veronica americana)		Herb	Wet	Sun	plugs	na	Cluster
Marsh speedwell (Veronica scutellata)		Herb	Wet	Sun	plugs	na	Cluster
American sloughgrass (Beckmannia syzigachne)	Х	Grass	Wet	Sun	seed, plugs	na	Mass
Western manna-grass (Glyceria occidentalis)	Х	Grass	Wet	Sun	seed	na	Mass

	Minimum						
	Species	Plant	Water	Light	Minimum	Minimum Plant	Spacing
Plant Commiunities	Composition	Category	Requirements	Requirements	Rooting Size	Height	Format
Storm Water Facility (SWF)							
Oregon Ash (Fraxinus latifolia)		Tree	Moist	Part	2 gal	3'	Single
Vine Maple (Acer circinatum)	Х	Tree	Moist	Part	2 gal	2'	Single
Cascara (Rhamnus purshiana)		Tree	Moist/Dry	Part	1 gal	2'	Single
Bitter cherry (Prunus emarginata)		Tree	Moist	Part	2 gal	2'	Single
Mock orange (Philadelphus lewisii)		Shrub	Wet/dry	Part	1 gal	2'	Cluster
Red-osier dogwood (Cornus sericea)	Х	Shrub	Wet	Part	1 gal	2'	Cluster
Pacific ninebark (Pysocarpus capitatus)		Shrub	Moist	Shade	1 gal	2'	Single
Oceanspray (Holodiscus discolor)	Х	Shrub	Dry	Sun	1 gal	1.5'	Single
Serviceberry (Almelanchier alnifolia)	Х	Shrub	Dry	Part	1 gal	2'	Single
Clustured rose (Rosa pisocarpa)		Shrub	Moist	Sun	1 gal	1.5'	Cluster
Snowberry (Symphoricarpus albus)	Х	Shrub	Dry	Part	1gal	1.5'	Cluster
Douglas's spiraea (Spiraea douglasii)	Х	Shrub	Wet	Sun	1 gal	1.5'	Cluster
Red flowering currant (Ribes sanguineum)	Х	Shrub	Dry	Sun	1 gal	1.5'	Cluster
Nodding beggartick (Bidens cernua)		Herb	Wet	Sun	1 gal	1.5'	Cluster
Spreading rush (Juncus patens)		Herb	Moist	Part	plugs	6"	Mass
Small-fruited bulrush (Scirpus microcarpus)		Herb	Wet	Sun	plugs	6"	Mass
Slough sedge (Carex obnupta)	Х	Herb	Moist	Part	plugs	6"	Mass
Toad rush (Juncus bufonius)*		Herb	Dry	Sun	seed, plugs	4"	Mass
Rossi Sedge (Carex rossi)*		Herb	Moist	Sun	plugs	4"	Mass
NW Native Wildflower mix		Herb	Mix	Sun	seed	na	Mass
Oregon Bentgrass (Agrostis oregonesis)*	Х	Grass	Dry	Sun	seed	na	Mass
Idaho bentgrass (Agrostis idahoensis)*		Grass	Dry	Sun	seed	na	Mass
Western manna-grass (Glyceria occidentalis)		Grass	Wet	Sun	seed	na	Mass

\* - Grows 5-30 cm tall



# Appendix G: Operations and Maintenance Plan
Extended Dry B Annual inspections ar inspection and maintena more information.	asin Operation and Ma e required. It is recommended that ance activities, and may be used as a	intenance Plan the facility is inspected on a monthly in inspection log. Contact the desig	r basis to ensure proper functi n engineer, Clean Water Serv	on. The plan below describes ices or City representative for
ldentified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	🗸 Task Complete Comments
Trash and Debris	Visual evidence of trash, debris or dumping	Remove trash and debris from facility. Dispose of properly	SPRING SUMMER FALL WINTER	
Contamination and Pollution	Evidence of oil, gasoline, contaminants, or other pollutants. Look for sheens, odor or signs of contamination	Locate source of contamination and correct. Remove oil using oil-absorbent pads or vactor truck. If low levels of oil persist plant wetland plants that can uptake small concentrations of oil such as Juncus effuses. (soft rush) If high levels of contaminants or pollutants are present, coordinate removal/ cleanup with local jurisdiction	SPRING SUMMER FALL WINTER	
Invasive vegetation as outlined in Appendix A.	Invasive vegetation found in facility. Examples include: Himalayan Blackberry, Reed Canary Grass, Teasel, English Ivy, Nightshade, Clematis, Cattail, Thistle, Scotch Broom	Remove excessive weeds and all invasive plants. Attempt to control even if complete eradication is not feasible; refer to Clean Water Services Integrated Pest Management Plan for appropriate control methods, including proper use of chemical treatment	SPRING SUMMER FALL	
Obstructed Inlet/Outlet	Material such as vegetation, trash, sediment is blocking more than 10% of inlet/outlet pipe or basin opening	Remove blockages from facility	winter spring uniter spring (1-inch in 24 hours)	
Poor Vegetation Cover	80% survival of approved vegetation and no bare areas large enough to affect function of facility.	Determine cause of poor growth and correct the condition. Replant with plugs or containerized plants per the approved planting plan and applicable standards at time of construction. Remove excessive weeds and all invasive plants.	Real time to plant is spring and fall seasons	



Extended Dry B Annual inspections ar inspection and maintena more information.	asin Operation and Mai e required. It is recommended that ance activities, and may be used as a	intenance Plan (contin the facility is inspected on a monthly in inspection log. Contact the desig	<b>ued)</b> / basis to ensure proper functi n engineer, Clean Water Serv	on. The plan below describes ices or City representative for
Identified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	🗸 Task Complete Comments
Vector Control	Evidence of rodents or water piping through facility via rodent holes. Harmful insects present such as wasps and hornets that interfere with maintenance/ inspection activities	Repair facility if damaged. Remove harmful insects, use professional if needed. Refer to Clean Water Services Integrated Pest Management Plan for management options	As Needed	
Tree/Shrub Growth	Tree/shrub growth shades out wetland/ emergent grass in treatment area. Interferes with access for maintenance/ inspection	Prune trees and shrubs that block sun from reaching treatment area. Remove trees that block access points. Do not remove trees that are not interfering with access or maintenance without first contacting Clean Water Services or local City	کی استخلاف سیامی استداد Minter for pruning is winter	
Hazard Trees	Observed dead, dying or diseased trees	Remove hazard trees. A certified Arborist may need to determine health of tree or removal requirements	As Needed	
Excessive Vegetation	Vegetation grows so tall that it competes with approved emergent wetland grass/shrubs, interferes with access or becomes a fire danger	Cut tall grass 4" to 6" and remove clippings. Prune emergent wetland grass/shrubs that have become overgrown.	SPRING SPRING Ideal time to prune emergent wetland grass is spring. Cut grass in dry months	
Erosion	Erosion or channelization that impacts or effects the function of the facility or creates a safety concern	Repair eroded areas and stabilize using proper erosion control measures. Establish appropriate vegetation as needed	FALL WINTER SPRING	



Extended Dry B Annual inspections an inspection and maintena more information.	asin Operation and Mare required. It is recommended that ance activities, and may be used as a	intenance Plan (contin the facility is inspected on a month an inspection log. Contact the desig	<b>ued)</b> y basis to ensure proper func n engineer, Clean Water Sen	ion. The plan below describes vices or City representative for
Identified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	🗸 Task Complete Comments
Settlement of Pond Dike/ Berm	Look for any part of dike/berm that has settled 4 inches or more lower than the design elevation	Repair dike/berm to approved design specifications. A licensed civil engineer should be consulted to determine the source of the settlement	As Needed	
Blockage of Emergency Overflow/ Spillway	Blockage of overflow/ spillway by trees, vegetation or other material. Blockages may cause the berm to fail due to uncontrolled overtopping	Remove blockage. Small root system (base less than 4 inches) may be left in place; otherwise, roots are removed. A licensed civil engineer should be consulted for proper berm/spillway restoration.	MINTER SPRING WINTER SPRING Inspect after major storm (1-inch in 24 hours)	
Erosion of Emergency Overflow/Spillway	Native soil is exposed at the spillway, or there is only one layer of rock in an area of 5 square feet or larger	Restore rock and pad depth to appropriate depth. Refer to design specifications	MINTER SPRING WINTER SPRING Inspect after major storm (1-inch in 24 hours)	
Blockage of Overflow Structure/ Orifice Plate	Excessive standing water or water is not detained for required time.	Inspect and if needed clear orifice plate for proper drainage or re-install to ensure required detention.	MINTER SPRING WINTER SPRING Inspect after major storm (1-inch in 24 hours)	
Sediment Accumulation in Pond Bottom	Sediment accumulation in pond bottom exceeds 6 inches or affects facility inlet/ outlet or plant growth in treatment area	Remove sediment from pond bottom. Re-establish designed pond shape and depth. Establish appropriate vegetation in treatment area	Ideally in the dry season	



Extended Dry B. Annual inspections ar inspection and maintena more information.	asin Operation and Ma e required. It is recommended that nce activities, and may be used as a	intenance Plan (contin the facility is inspected on a monthl an inspection log. Contact the desig	<b>ued)</b> y basis to ensure proper funct n engineer, Clean Water Serv	ion. The plan below describes ices or City representative for
Identified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	<ul> <li>Task Complete Comments</li> </ul>
Grate Damaged, missing or not in place	Grate is missing or only partially in place, may have missing or broken grate members.	Grate must be in place and meet design standards. Replace or repair any open structure, replace grate if missing	As Needed	
Damage to Outlet Structure	Damage to Frame or Top Slab. Frame not sitting flush on top slab (more than ¾ inch between frame and top slab); frame not securely attached	Ensure frame is firmly attached and sits flush on the riser rings or top slab	As Needed	
Damage to Outlet Structure	Fractures or Cracks in Walls or Bottom. Maintenance person determines the structure is unsound. Soil entering structure through cracks.	Structure replaced or repaired to design standards.	As Needed	
Damage to Outlet Structure	Settlement or Misalignment of Basin. Failure of basin has created a safety, function, or design problem	Structure replaced or repaired to design standards	As Needed	





## Appendix H: SLOPES V Information Form

### SLOPES for Stormwater, Transportation and Utilities (NMFS# NWR-2013-10411)

#### Stormwater Information Form

If you are submitting a project that includes a stormwater plan for review under SLOPES for Stormwater, Transportation and Utilities please fill out the following cover sheet <u>to be included with</u> stormwater management plan, and any other supporting materials.

Also include a drawing of the stormwater treatment area including drainage areas, direction of flow, BMP locations and types, contributing areas, other drainage features, receiving water/location, etc.

	Project Information					
	Corps of Engineers pe	ermit #				
	Name of Project:					
	Type of project (i.e., r	esidential, comm	ercial,			
	industrial, or combinati	ion)				
	Nearest receiving wat	ter occupied by	ESA-			
	listed species or desig	gnated critical h	abitat			
	Lat/Long (DDD.dddd)	of Project Loca	tion:			
	Have you contacted a	anyone at NMFS				
	regarding this project	t?				
	Applicant/Consultant	name:				
	Applicant/Consultant	email:				
	Stormwater Designer	and/or Enginee	er Conta	ct Information		
	Name:					
	Phone:					
	Email:					
	Summary of Design E	lements				
	24-hour design storm	n: Inches	50%*	of 2-yr, 24-hr storm fully treated:	Yes	No
1.			If no, pr	pject may not meet the SLOPES programmati	c criteria	
	2 year 24 hour storm	from NOAA Pr	ecinitati	n Atlas:		Inches
2.	http://www.nws.noaa.go	v/ohd/hdsc/noaaa	tlas2.htm	Sir Adus.		menes
	Total contributing im	nervious area ir	cluding	all contiguous surface		Acros
	(e.g. roads, driveways, parking lots, sidewalks, roofs, and similar surfaces)					
2	(e.g. roads, driveways, parking lots, sidewalks, roots, and similar surfaces)					
3.	Evisting	v				Acres
	Acres of total impervi	ious area	v	design storm -	f+ <sup>3</sup> +	o he treated
_	Acres of total impervi		^		11 1	o be treated
4.	Peak discharge of des	sign storm:			. 2	cfs
5.	Total stormwater to b	pe treated:			ft <sup>°</sup>	cfs
	Stormwater Design Manual Used and Year/Version:					
	(example: City of Portland	d, Clean Water Ser	vices, King	g County, Western Washington)		
C						
6.	Describe which eleme	ents of your sto	rmwatei	nlan came from this manual		

	Have you treated all stormwater to the design storm	within the contributing impervious area?					
	If no, why not and how will you offset the effects fro	m remaining stormwater?					
7		5					
7.							
	Water Quality						
	Low Impact Development methods incorporated?	Yes No					
	amended soils, bioretention, permeable pavement, rainv	vater collection, tree retention)					
	Please describe:						
8.							
	How much of total stormwater is treated using LID:						
	Treatment train, including pretreatment and biorete	ntion methods used to treat water quality:					
	Why this treatment train was chosen for the project	site:					
9.							
	Page in stormwater plan where more details can be	found					
	Page in stormwater plan where more details can be found: Water Quantity						
10.	Does the project discharge directly into a major wat	er body (see PDC 36.c.iii)? Yes No					
	Pre-development runoff rate	Post-development runoff rate					
11.	(i.e., before human-induced changes to the unimproved property) 2-yr 24-hour storm:	(i.e., after proposed developments) 2-yr 24-hour storm:					
	10-yr storm:	10-yr storm:					
	Post-development runoff rate must be less than or equal to p	re-development runoff rate					
	Methods used to treat water quantity:						
12.							
	   Page in stormwater plan where more details can be	found:					

	Maintenance and Inspection Plan
13.	Have you included a stormwater maintenance plan with a description of the onsite stormwater system, inspection schedule and process, maintenance activities, legal and financial responsibility, and inspection and maintenance logs? Yes No* *Projects cannot be submitted for review under SLOPES without a maintenance and inspection plan. Page in stormwater plan where plan can be found:
14.	Contact information for the party/parties that will be legally responsible for performing the inspections and maintenance or the stormwater facilities:          Name:



Exhibit E: Wetland Assessment and Delineation





July 14, 2021

Re:

Oregon Street Business Park, LLC Attn: Bruce Polley PO Box 1489 Sherwood, OR 97140

WD # 2021-0196 **Approved** 

APP # 24010, RGL # 1439

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

**State Land Board** 

Kate Brown Governor

Shemia Fagan Secretary of State

> Tobias Read State Treasurer

Dear Mr. Polley:

The Department of State Lands has reviewed the wetland delineation report prepared by AKS Engineering and Forestry for the site referenced above. Please note that the study areas include only a portion of the tax lots described above (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 5 and 5A of the report. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Wetland Delineation Report for The Oregon Street Business Park

Washington County; T2S R1W S28C TLs 500 and 501 (Portions)

City of Sherwood Local Wetlands Inventory Wetland R-5

Within the study areas, 2 wetlands (Wetland A and B, totaling approximately 0.59 acres) were identified. The wetlands are subject to the permit requirements of the state Removal-Fill Law. Normally, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). However, Wetland B is within the active floodplain of Rock Creek, an essential salmonid stream and its southern portion is part of a compensatory wetland mitigation site (RGL # 1439); therefore, fill or removal of any amount of material within this wetland may require a state permit.

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Since measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you

work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact the Jurisdiction Coordinator for Washington County, Chris Stevenson, PWS, at (503) 986-5246.

Sincerely,

Bt Ryan

Peter Ryan, SPWS Aquatic Resource Specialist

Enclosures

ec: Stacey Reed, PWS, AKS Engineering and Forestry City of Sherwood Planning Department (Maps enclosed for updating LWI) Danielle Erb, Corps of Engineers Grey Wolf, DSL

#### WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: <u>https://apps.oregon.gov/DSL/EPS/program?key=4</u>.

Attach this completed and signed form to the front of an unbo of the report cover form and report, minimum 300 dpi resolution Street NE, Suite 100, Salem, OR 97301-1279. A single PDI Wetland_Delineation@dsl.state.or.us. For submittal of PDI file from your ftp or other file sharing website.	und report or include a hard copy with a digital version (single PDF file on) and submit to: <b>Oregon Department of State Lands, 775 Summer</b> F of the completed cover from and report may be e-mailed to: F files larger than 10 MB, e-mail DSL instructions on how to access the
Contact and Authorization Information	
Applicant Owner Name, Firm and Address: Oregon Street Business Park, LLC ATTN: Bruce Polley P.O. Box 1489 Sherwood, OR 97140	Business phone # Mobile phone # (optional) E-mail: bruce@airteknw.com
Authorized Legal Agent, Name and Address (if differen	nt): Business phone # Mobile phone # (optional) E-mail:
I either own the property described below or I have legal author property for the purpose of confirming the information in the rep	ity to allow access to the property. I authorize the Department to access the ort, after prior notification to the primary contact.
Date: Special instructions regarding	site access:
Project and Site Information	
Project Name: Oregon Street Business Park	Latitude: 45.360684 1 ongitude: -122.823151
Troject Name. Gregon Greet Business Fark	decimal degree - centroid of site or start & end points of linear project
Proposed Use:	Tax Map # 2S 1 28C
Employment Industrial	Tax Lot(s) 500 and Portion of 501
	Tax Map #
Project Street Address (or other descriptive location):	Tax Lot(s)
21720 SW Oregon Street	Township 2S Range 1W Section 28 QQ SW
and share been a second s	Use separate sheet for additional tax and location information
City: Sherwood County: Washington	Waterway: N/A River Mile: N/A
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address: Stacey Reed, PWS AKS Engineering & Forestry LLC 12965 SW Herman Rd, Ste 100 Tualatin, OR 97062	Phone # (503) 563-6151 Mobile phone # (if applicable) E-mail: staceyr@aks-eng.com
The information and conclusions on this form and in the attache Consultant Signature:	d report are true and correct to the best of my knowledge.
Primary Contact for report review and site access is 🗵	Consultant Applicant/Owner Authorized Agent
Wetland/Waters Present? X Yes No Study A	Area size: 9.27 acres Total Wetland Acreage: 0.5900
Check Applicable Boxes Below	
R-F permit application submitted	∑ Fee payment submitted \$ <u>475</u>
Mitigation bank site	Fee (\$100) for resubmittal of rejected report
Industrial Land Certification Program Site	Request for Reissuance. See eligibility criteria. (no fee)     SI # Evpiration date
(not mitigation)	
Previous delineation/application on parcel If known, previous DSL # 2000-0488	LWI shows wetlands or waters on parcel Wetland ID code
For (	Office Use Only
DSL Reviewer: CS Fee Paid Date: _	/ DSL WD # <u>2021-0196</u>
Date Delineation Received: 04 / 12 / 2021 Scann	ned:   Electronic:  DSL App.#



DWG: 7971 20210225 NR FIGURES | FIGURE 1



DWG: 7971 20210225 NR FIGURES | FIGURE 2



DSL WD # <u>2021-0196</u> Approval Issued 7/14/2021 Approval Expires 7/14/2026

### LEGEND

\* \* \* TOTAL ON-SITE WETLAND: 25,759 SF± (0.59 ACRES±)

PSS/PEM/SLOPE WETLAND A: 11,430 SF± (0.26 ACRES±) PEM/SLOPE/RIVERINE WETLAND B: 14,329 SF± (0.33 ACRES±)

(A) PHOTO LOCATIONS & ORIENTATION

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.



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SURVEY WITH SUB-METER ACCURACY.

60

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DATE: 04/08/2021 FIGURE

#### 5A <u>)rwn:</u>SK1 CHKD: SAR AKS JOB: 7971

12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM

### Oregon Street Business Park Sherwood, Oregon Wetland Delineation Report

Date:	April 2021
Prepared for:	Oregon Street Business Park, LLC P.O. Box 1489 Sherwood, Oregon 97140
Prepared by:	AKS Engineering & Forestry, LLC Sonya Templeton, Natural Resource Specialist Stacey Reed, PWS, Senior Wetland Scientist 503-563-6151   staceyr@aks-eng.com
Study Area:	SW Oregon Street and SW Tonquin Road Washington County Assessor's Map 2S 1 28C Tax Lot 500 and Portion of Tax Lot 501 Sherwood, Oregon
AKS lob Number:	7971



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#### Introduction

This report was prepared by AKS Engineering Forestry, LLC (AKS) in accordance with Oregon Administrative Rules (OAR) 141-090-0030 and OAR-141-090-0035 (1-17) and describes the results of a wetland delineation conducted on Tax Lot 500 and a portion of Tax Lot 501 of Washington County Assessor's Map 2S 1 28C, which is located at the intersection of SW Oregon Street and SW Tonquin Road in Sherwood, Washington County, Oregon (Figures 1 and 2, Appendix A). The study area for the wetland delineation was approximately 9.27 acres and is shown in Figures 1 to 5 in Appendix A.

The on-site boundaries of one palustrine scrub-shrub/emergent wetland (referred to as Wetland A) and portions of a large palustrine emergent wetland associated with the floodplain of Rock Creek (referred to as Wetland B) were delineated by AKS in the study area. Both wetlands are likely to be determined jurisdictional to the Oregon Department of State Lands (DSL) and Wetland B is likely to be determined jurisdictional to the US Army Corps of Engineers (USACE) due to its adjacency to Rock Creek, a natural perennial stream.

David Evans & Associates, Inc. (DEA) conducted a wetland delineation that covered the study area in 2000 for Washington County's Oregon Street/Murdock Road to Tualatin/Sherwood Road Widening Project. The delineation determined palustrine emergent wetland was present in the vicinity of Wetland A mapped under our study. The DEA delineation was concurred by DSL under WD2000-0488. Washington County received a removal-fill permit from DSL (DSL permit #RF-24010) to impact a portion of Wetland A for the widening and raising of SW Oregon Street and intersection improvements with SW Tonquin Road. Permanent wetland impacts were mitigated through on-site wetland enhancement, which included enhancement within Wetland B delineated under this study.

#### A. Landscape Setting and Land Use

The study area east of SW Tonquin Road and south of SW Oregon Street contains three buildings and gravel parking located in the northern portion of the site, with remaining portions consisting of a forested area and an open field. The forested area is dominated by Douglas-fir (*Pseudotsuga menziesii*, FACU), bigleaf maple (*Acer macrophyllum*, FACU), English holly (*Ilex aquifolium*, FACU), oso-berry (*Oemleria cerasiformis*, FACU), Himalayan blackberry (*Rubus armeniacus*, FAC), common snowberry (*Symphoricarpos albus*, FACU), pineland sword fern (*Polystichum munitum*, FACU), and California dewberry (*Rubus ursinus*, FACU). The open field is dominated by mowed bentgrass (*Agrostis* species, FAC), bluegrass (*Poa* species, FAC), common dandelion (*Taraxacum officinale*, FACU), white clover (*Trifolium repens*, FAC), and English plantain (*Plantago lanceolata*, FACU).

The study area southwest of SW Tonquin Road is undeveloped and is entirely wetland (referred to as Wetland B) dominated by reed canary grass (*Phalaris arundinacea*, FACW). Wetland B extends north of SW Oregon Street, also dominated by reed canary grass, with scattered thickets of Douglas' meadowsweet (*Spiraea douglasii*, FACW), and Oregon ash (*Fraxinus latifolia*, FACW).

Topography within the study area east of SW Tonquin Road slopes to the west towards Wetland A. Elevation varies at 180 feet in the eastern portion of the site with the lowest elevation at 135 feet within Wetland A in the western portion of the site. The remaining study areas are relatively flat (less than 3 percent overall slope) and slopes subtly towards Rock Creek.



The land use to the north and east generally consists of industrial land uses with high-density residential to the west. The study area is currently zoned as Employment Industrial within the City of Sherwood's Tonquin Employment Area.

The following soil units are mapped within the study area, according to the Natural Resources Conservation Service (NRCS) Washington County Area Soil Survey Map (Figure 3, Appendix A):

- Briedwell stony silt loam (Unit 5B), 0 to 7 percent slopes; Non-hydric
- Cove silty clay loam (Unit 13); Hydric
- Laurelwood silt loam (Unit 28B), 3 to 7 percent slopes; Non-hydric

#### **B. Site Alterations**

Historical aerial photos, dating from 1994 to 2019, were obtained from Google Earth and are included in Appendix B. The portion of the study area east of SW Tonquin Road was mostly forested from as early as 1994, until it was logged sometime between 1994 and 2000.

Sometime between 2001 and 2002, grading was done for the Oregon Street/Tonquin Road intersection improvements, which were completed in 2003. The road improvement project resulted in a partial fill of the wetlands delineated under this study.

Sometime in 2004, enhancement of Wetland B occurred which appears to have included excavation of a depression. The excavation appears to have been associated with the wetland mitigation enhancement under DSL permit #RF-24010.

The study area appears to be relatively unchanged since the 2014 aerial image and no other site alterations appear to have taken place that would have direct or indirect hydrological impacts to wetlands delineated on the site.

#### C. Precipitation Data and Analysis

The closest WETS (Climate Analysis for Wetlands Tables) station to the project site is the Hillsboro station. According to the Hillsboro WETS data, the growing season is between March 15 and November 10. The site visit was conducted on March 8, 2021; however, evidence of the onset of the growing season was observed, including woody bud burst and the emergence of herbaceous vegetation from the ground, confirming the site visit was conducted during the growing season. Raw precipitation data is included in Appendix C.

According to the National Weather Service (NWS) Hillsboro station, 0.01 inches of rain were received on the day of the March 8, 2021 site visit with 1.02 inches recorded in the two weeks prior. Observed water year-to-date (Starting October 1, 2020) was 24 inches, which was 3.74 inches below normal. As depicted by Table 1, normal rainfall levels were observed during the three months prior to the March 8, 2021 site visit.



	Table 1: Preci	pitation Data Pr	ior to th	e March	n 8, 2021 Site	e Visit		
Prior Months	Observed Precipitation	Average WETS	30% C Will	hance Have	Condition Dry, Wet,	Condition Value	Month Weight	Multiply Previous
	(inches)	(Inches)	Less Than	More Than	Normai	(1=dry, 2=normal, 3=wet)		Columns
February 2021	3.91	3.63	2.25	4.39	Normal	2	3	6
January 2021	7.86	5.28	3.69	6.27	Wet	3	2	6
December 2020	5.27	5.98	4.06	7.14	Normal	2	1	2
Sum								14
Rainfall of prior perio	d was: drier than n	ormal (sum is 6-9),	normal (s	um is 10-1	4), wetter than	normal (sum is	15-18)	

#### **D. Methods**

The methodology used to determine the presence of wetlands followed the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (Wakeley et al., 2010). The *National Wetland Plant List 2018* (USACE, 2018) was used to assign wetland indicator status for the appropriate region.

Field work was conducted on March 8, 2021 by AKS Stacey Reed, PWS, Senior Wetland Scientist and Sonya Templeton, Natural Resource Specialist. Soils, vegetation, and indicators of hydrology were recorded at 14 sample plot locations (there is no sample plot 9) on standardized wetland determination data forms (Appendix D) to document site conditions.

Representative ground level site photographs are included in Appendix E. References cited and literature used are listed at the end of this report.

### F. Description of All Wetlands and Other Non-Wetland Waters

#### Wetlands

#### Wetland A

Wetland A is a palustrine scrub-shrub/emergent wetland (PSS/PEM) located east of SW Tonquin Road. The main hydrology sources for Wetland A are hillside seeps, including a seasonal spring and direct precipitation. Wetland A is situated on a toeslope where water flows through the wetland in one direction, exiting the site through a culvert located under SW Tonquin Road. During the March 2021 site visit, the culvert was dry and approximately 2 inches of scatted surface water ponding was observed in the lower elevation portions of the wetland, upslope of the culvert. Wetland A belongs to the Slopes hydrogeomorphic (HGM) classification. Wetland conditions only extend slightly off-site to the south.

The PSS portion of Wetland A is dominated by Nootka rose (*Rosa nutkana*, FAC), red alder sapling (*Alnus rubra*, FAC), Oregon ash saplings, Himalayan blackberry (FAC), and creeping buttercup (*Ranunculus repens*, FAC). The PEM portion of Wetland A is dominated by field meadow-foxtail (*Alopecurus pratensis*, FAC), creeping buttercup, with scattered patches of slough sedge (*Carex obnupta*, OBL).

Soils in the wetland are low chroma (chroma 2 or less) displaying common distinct and prominent redoximorphic features, meeting hydric soil indicator F6 Redox Dark Surface. A depleted matrix (hydric indicators F3 or A11) was also observed at most wetland plots.



A groundwater table was observed within the surface 12 inches at all wetland plots during the March 2021 site visit.

The wetland boundary is well defined based on changes in the vegetation community from FACdominated in wetland (Nootka rose, red alder, creeping buttercup) to a non-hydrophytic community in upland (Douglas-fir, English holly, oso-berry, fringe-cup (*Tellima grandiflora*, FACU). The change in the vegetation community coincides with a subtle change in the local relief from concave, low elevation in the wetland to a higher elevation, convex local relief in upland. The adjacent upland was documented at paired upland Plots 2, 3, 11, and 14, which lacked hydric soil indicators.

#### Wetland B

Wetland B is a palustrine emergent (PEM) wetland located within the portion of Tax Lot 500 west of SW Tonquin Road, and within a portion of Tax Lot 501 north of SW Oregon Street. Wetland B continues offsite as it is part of a large floodplain wetland associated with Rock Creek. The main hydrology sources for Wetland B within the study area are a seasonally-high groundwater table, subsurface flow from upslope hillsides, and occasional overbank flooding from Rock Creek. Wetland B belongs to the Slope/Riverine Impounding HGM subclass.

Within the study area Wetland B is mainly dominated by reed canary grass (FACW), with scattered patches of Oregon ash saplings (FACW) and Douglas' meadowsweet (FACW). Soils in the wetland are low chroma (chroma 2 or less) displaying common distinct and prominent redoximorphic features, meeting hydric soil indicator F6 Redox Dark Surface. A high ground water table and saturation was observed at wetland Plot 8 during the March 2021 site visit.

No data was collected for the portion of Wetland B north of Oregon Street, as the entire study area contained approximately 6-8 inches deep of inundation and was dominated by a FACW vegetation community (reed canary grass and Douglas' meadowsweet). The wetland boundary for the portion on tax lot 501 was defined by the fill slope associated with Oregon Street which was dominated by beaked hazelnut (*Corylus cornuta*; FACU) and pineland sword fern (FACU). The wetland boundary was therefore determined by the change in vegetation community from FACW in wetland to FACU in upland which coincided by a distinct change in landform, from concave floodplain wetland to convex hillslope in the upland.

#### Upland

Plots 5 and 6 were established in the northwestern corner of the study area south of Oregon Street, in the vicinity of wetland plots 3 and 5 delineated under WD2000-0488. This area was dominated by mowed bluegrass (FAC), bentgrass (FAC), and field meadow-foxtail, with common dandelion (FACU) and white clover (FAC).

While soils at Plots 5 and 6 met hydric soil indicators, a ground water table was not observed during the March 2021 site visit, which was during a period of normal rainfall. There was no evidence of secondary wetland hydrology indicators. Plots were left open for approximately 1 hour to allow adequate time for the groundwater table to equilibrate. According the WD2000-0488 delineation data, wetland Plots 3 and 5 did not display indicators of wetland hydrology during their site visit and were determined wetland based on hydric soil indicators.

Since Plots 5 and 6 had no indicators of wetland hydrology during a period of normal rainfall, we determined these plots to be upland. This area is located approximately 1 foot higher than the adjacent



wetland. We conducted an initial site visit on February 16, 2021, which received 0.07 inches of rain day of and 2.67 inches within the two weeks prior, according to the Hillsboro NWS station precipitation data. Since February 2021 was recorded as a wetter than normal month, we postponed delineation until March 8, 2021. Plots 5 and 6 lacked a groundwater table within the surface 16-inches during the February 2021 site visit, after leaving plots open for over a half hour.

Plot 10 was established in a low elevational feature within the forested hillslope. This area was dominated by big-leaf maple, common snowberry, and dovefoot geranium (*Geranium molle*, NOL). Plot 10 lacked hydric soil and wetland hydrology indicators; therefore, was determined to be upland. This area also lacked a defined bed and bank or evidence of surface flow.

#### **G. Mapping Method**

Wetland A, the on-site portions of Wetland B, and Plots 1 through 14 (there is no Plot 9) were professionally land surveyed by AKS with sub-meter accuracy on March 10, 2021. Wetland boundaries were flagged in the field with orange wire whips and flagging and sample plots were flagged with pink wire whips. Flags were left in the field after surveying. The delineation map is included as Figures 5 and 5A in Appendix A.

#### H. Deviation from LWI or NWI

According to the City of Sherwood's DSL-approved Local Wetland Inventory (LWI), wetland is mapped in the vicinity of Wetlands A and B delineated under this study (Figure 4, Appendix A). Our study generally agrees with the LWI mapping.

#### I. Additional Information

Wetlands A and B are naturally occurring wetlands likely to be determined jurisdictional by DSL.

Seasonal discharge from Wetland A flows off-site to the west through a 16-inch diameter culvert under SW Tonquin Road. The culvert discharges into Rock Creek, a perennial tributary to the Tualatin River, on the western side of SW Tonquin Road.

According to the US Environmental Protection Agency (EPA) and USACE finalization of The Navigable Waters Protection Rule (NWPR), wetlands are only federally jurisdictional if there is a one-way surface connection associated with inundation from the paragraph (a)(3) water to the wetland during a "typical year." Rock Creek, the (a)(3) tributary, is located off-site at a lower elevation on the western side of SW Tonquin Road. Wetland A is located several feet higher in elevation than Rock Creek. Therefore, it is very unlikely that flow associated with Rock Creek extends upslope through the culvert under Tonquin Road to inundate Wetland A during a typical year; therefore, under the NWPR, Wetland A may not be determined jurisdictional to the USACE.

However, Wetland B receives overbank flooding associated with Rock Creek (a paragraph (a)(2) water); therefore, Wetland B may be regulated under Section 404 of the Clean Water Act (CWA).

#### J. Summary of Results and Conclusions

Table 3 below provides a summary of the on-site sizes of the features, hydrologic connections to other nearby waters, the Cowardin and Hydrogeomorphic (HGM) classifications for the wetlands, and our prediction of whether each feature would likely be determined jurisdictional by DSL or the USACE.



Table 2: Summary of Study Results and Conclusions							
Potentially Jurisdiction al Feature	Latitude/Long itude	Size Within Study area (acres)	Cowardin Class	HGM class or Flow Regime	Connection to Other Waters	DSL/USACE Predicted Jurisdiction	
Wetland A	45.36053722/ -122.82397334	0.26	PSS/PEM	Slope	Rock Creek	DSL	
Wetland B	45.36053722/ -122.82339733	0.33	PEM	Slope/Riverine Impounding	Rock Creek	DSL and USACE	

#### **K. Required Disclaimer**

This report documents the investigation, best professional judgment, and conclusions of the investigators. It is correct and complete to the best of our knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk, unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with Oregon Administrative Rules (OAR) 141-090-0005 through 141-090-0055.

#### L. List of Preparers

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Sonya Templeton Natural Resource Specialist Fieldwork, Report Preparation

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Stacey Reed, PWS Senior Wetland Scientist Fieldwork, Report QA/QC



#### **Literature Cited and Referenced**

- Adams, P.R. 2001. Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Sites: Statewide Classification and Profiles. Salem (OR): Oregon Division of State Lands. Available at: http://www.oregon.gov/dsl/WW/Documents/hydro\_guide\_class.pdf. [Accessed March 2021]
- Cowardin, L.M. 1979. *Classification of Wetland and Deepwater Habitats of the United States*. Jamestown (ND): Northern Prairie Wildlife Research Center, US Fish and Wildlife Service.
- Environmental Laboratory. 1987. Technical Report Y-87-1. In: *Corps of Engineers Wetlands Delineation Manual*. Vicksburg (MS): US Army Engineer Waterways Experiment Station. Available at: https://www.sac.usace.army.mil/Portals/43/docs/regulatory/1987\_wetland\_delineatio n\_manual\_reg.pdf. [Accessed March 2021].
- Hitchcock, C.L., and A. Cronquist. 1973. *Flora of the Pacific Northwest*. Seattle (WA): University of Washington Press.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List: 2018 wetland ratings*. Phytoneuron 2016-30: 1-17. Published 28 April 2016. Available at: http://wetland-plants.usace.army.mil/nwpl\_static/v33/home/home.html. [Accessed March 2021].
- Mersel and Lichvar. 2014. Western Mountains, Valleys, and Coast: A Guide to Ordinary High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States. Available at: https://erdc-library.erdc.dren.mil/xmlui/handle/11681/5501. [Accessed March 2021].
- National Weather Service (NWS). 2015. Hillsboro, OR. Available at: http://www.weather.gov/climate/index.php?wfo=pqr. [Accessed August 2019].
- Natural Resources Conservation Service (NRCS). 2006. *Hydric Soils List: Washington County, Oregon*. Washington (DC): US Department of Agriculture.
- Natural Resources Conservation Service (NRCS). 2014a. *Official soil series descriptions*. Washington (DC): US Department of Agriculture. Available at: http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/soils/home/?cid=nrcs142p2\_0535 87. [Accessed March 2021].
- Natural Resources Conservation Service (NRCS). 2014b. *Web soil survey*. Washington (DC): US Department of Agriculture. Available at: http://websoilsurvey.nrcs.usda.gov/app/. [Accessed March 2021].
- Oregon Department of State Lands (DSL). 2014. Administrative Rules for Wetland Delineation Report Requirements. Salem (OR): Department of State Lands. Available at: https://secure.sos.state.or.us/oard/displayDivisionRules.action?selectedDivision=355. [Accessed March 2021].
- Oregon Map. 2019. County Assessor's Map 2S 12 8C. Oregon: State of Oregon. Available at: http://www.ormap.net/. [Accessed March 2021].



- Schoeneberger, P.J., D.A. Wysocki, E.C. Benham, and W.D. Broderson, eds. 2002. *Field Book for Describing and Sampling Soils* (Version 2.0). Lincoln (NE): US Department of Agriculture Natural Resources Conservation Service, National Soil Survey Center.
- Vasilas, L.M., G.W. Hurt, and C.V. Noble, eds. 2010. Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils (Version 7.0). Washington (DC): US Department of Agriculture Natural Resources Conservation Service. Available at: https://www.nrcs.usda.gov/Internet/FSE\_DOCUMENTS/stelprdb1046970.pdf. [Accessed March 2021].
- US Army Corps of Engineers (USACE). 2008. *Memorandum Re: Clean Water Act Jurisdiction Following the* U.S. Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. Benjamin H. Grumbles and John Paul Woodley, Jr. Washington, DC: Government Printing Office, December 2, 2008.
- US Army Corps of Engineers. 2018. National Wetland Plant List, version 3.4. Available at: http://wetlandplants.usace.army.mil/
- Wakeley, J.S., R.W. Lichvar, and C.V. Noble, eds. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). ERDC/EL TR-10-3. Vicksburg (MS): US Army Engineer Research and Development Center, US Army Corps of Engineers.

X-Rite. 2000. Year 2000 revised washable edition, Munsell soil color charts. Grand Rapids (MI): X-Rite.





# Appendix A: Maps



DWG: 7971 20210225 NR FIGURES | FIGURE 1



DWG: 7971 20210225 NR FIGURES | FIGURE 2



MAP UNIT SYMBOL	MAP UNIT NAME
5B	BRIEDWELL STONY SILT LOAM, 0% TO 7% SLOPES; NON-HYDRIC
28B	LAURELWOOD SILT LOAM, 3% TO 7% SLOPES; NON-HYDRIC
13	COVE SILTY CLAY LOAM; HYDRIC

NRCS WEB SOIL SURVEY FOR WASHINGTON COUNTY









TUALATIN, OR 97062

### LEGEND

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ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

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# Appendix B: Historical Aerial Photographs






























# Appendix C: Precipitation Data

#### WETS Station: PORTLAND-HILLSBORO AP, OR

Requested years: 1971 - 2021

Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0. 10 or more	Avg Snowfall	
Jan	46.7	33.8	40.2	5.28	3.69	6.27	12	-	
Feb	49.9	33.6	41.8	3.63	2.25	4.39	10	-	
Mar	54.9	36.3	45.6	3.77	2.77	4.43	11	-	
Apr	60.6	39.1	49.9	2.40	1.78	2.82	8	-	
Мау	68.1	44.7	56.4	1.81	1.06	2.21	6	-	
Jun	73.5	49.0	61.2	1.20	0.75	1.45	4	-	
Jul	81.8	52.4	67.1	0.28	0.16	0.32	1	-	
Aug	82.3	52.1	67.2	0.45	0.16	0.49	1	-	
Sep	75.9	47.5	61.7	1.30	0.58	1.58	3	-	
Oct	63.3	41.5	52.4	3.12	1.95	3.77	7	-	
Nov	52.2	36.7	44.4	5.21	3.56	6.22	11	-	
Dec	45.6	33.2	39.4	5.98	4.06	7.14	13	-	
Annual:					30.26	37.33			
Average	62.9	41.7	52.3	-	-	-	-	-	
Total	-	-	-	34.42			88	-	

#### GROWING SEASON DATES

Years with missing data:	24 deg = 29	28 deg = 29	32 deg = 29
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0
Data years used:	24 deg = 22	28 deg = 22	32 deg = 22
Probability	24 F or higher	28 F or higher	32 F or higher
50 percent *	2/2 to 11/28: 299 days	3/15 to 11/10: 240 days	4/20 to 10/23: 186 days
70 percent *	1/23 to 12/9: 320 days	3/7 to 11/ 19: 257 days	4/13 to 10/31: 201 days

\* Percent chance of the growing season occurring between the Beginning and Ending dates.

STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
1998						M0.68	M0.32	Т	0. 87	M2. 75	9. 03	7.07	20. 72
1999	7.48	9.78	4.29	1.50	1.74	1.55	0.66	0.84	0. 14	2. 49	6. 91	3.91	41. 29
2000	6.92	4.35	3.02	1.36	1.91	1.04	0.08	M0.15	1. 27	3. 00	2. 16	3.24	28. 50
2001	1.94	1.58	2.33	1.86	0.85	1.20	0.45	0.79	0. 79	3. 13	8. 54	6.98	30. 44
2002	7.31	3.13	3.49	1.71	1.44	1.30	M0.32	0.05	0. 83	0. 43	2. 61	9.88	32. 50
2003	8.29	2.93	5.16	5.91	0.75	0.15	Т	0.55	0. 94	3. 07	4. 43	7.93	40. 11
2004	5.90	4.27	M1.68	1.79	1.24	0.82	Т	2.31	1. 37	3. 55	2. 61	3.72	29. 26
2005	2.27	0.68	4.42	2.56	4.35	1.55	0.24	0.32	1. 36	3. 68	6. 09	9.09	36. 61
2006	11.90	1.99	3.57	2.02	2.70	1.08	0.14	0.08	0.	0.	12.	M7.	45.

										59	90	88	49	34
	2007	3.24	3.80	2.39	1.96	1.29	0.97	0.40	0.53	1. 73	3. 12	3. 90	8.94	32. 27
	2008	5.38	1.49	3.31	1.94	0.97	0.36	0.09	1.37	0. 22	1. 69	4. 51	M2. 77	24. 10
	2009	M4.36	1.08	2.40	1.24	2.92	1.34	0.13	0.72	1. 51	3. 32	5. 72	M3. 96	28. 70
	2010	5.14	4.06	3.76	3.22	3.16	3.52	0.45	0.17	2. 21	3. 98	5. 23	8.16	43. 06
	2011	3.59	3.83	5.39	3.42	M2.10	0.59	1.23	Т	0. 26	1. 88	5. 38	2.33	30. 00
	2012	5.79	M2.48	6.59	2.38	2.34	2.42	0.09	0.02	0. 04	5. 45	7. 59	7.50	42. 69
	2013	1.47	1.87	1.81	2.33	3.98	1.31	т	0.85	6. 27	0. 87	2. 73	1.08	24. 57
	2014	2.41	5.06	6.07	3.42	1.70	0.92	0.52	0.14	1. 10	6. 12	2. 83	5.88	36. 17
	2015	3.01	4.57	4.68	1.41	0.44	0.54	0.32	0.55	0. 86	3. 42	4. 00	14. 60	38. 40
	2016	7.53	3.96	5.31	1.88	0.80	1.33	0.33	0.25	0. 93	8. 66	6. 25	4.77	42. 00
	2017	4.11	10.06	6.96	3.56	1.82	1.05	Т	0.13	1. 39	4. 04	7. 38	2.92	43. 42
	2018	5.17	2.15	2.79	3.32	0.11	0.65	т	Т	0. 79	3. 33	2. 61	4.74	25. 66
	2019	3.12	4.96	1.36	3.23	1.45	0.64	0.49	0.21	3. 08	1. 51	1. 16	5.22	26. 43
	2020	7.18	1.49	2.12	0.88	1.86	2.04	0.07	0.25	M1. 28	1. 38	5. 34	5.27	29. 16
	2021	7.86	3.91											11. 77
Notes: E month ha indio p	Data missing in any ave an "M" flag. A "T" cates a trace of recipitation.													
Data mic	sing for all dave in a													

Data missing for all days in a month or year is blank.

Creation date: 2016-07-22

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## **Climatological Report (Daily)**

000 CDUS46 KPQR 091144 CLIHIO CLIMATE REPORT NATIONAL WEATHER SERVICE 344 AM PST TUE MAR 09 2021 ... THE HILLSBORO OR CLIMATE SUMMARY FOR MARCH 8 2021... CLIMATE NORMAL PERIOD 1981 TO 2010 CLIMATE RECORD PERIOD 1929 TO 2021 WEATHER ITEM OBSERVED TIME RECORD YEAR NORMAL DEPARTURE LAST VALUE (LST) VALUE VALUE FROM YEAR NORMAL TEMPERATURE (F) YESTERDAY 53 342 PM 73 30 712 AM 25 42 53 342 PM 73 2004 54 -1 50 MAXIMUM 1985 35 -5 30 MINIMUM -3 AVERAGE 45 40 PRECIPITATION (IN) YESTERDAY 0.01 1.13 1995 0.11 -0.10 MONTH TO DATE 0.24 0.88 -0.64 SINCE OCT 1 27.74 -3.74 24.00 SINCE JAN 1 12.01 11.35 0.66 DEGREE DAYS HEATING 23 20 3 YESTERDAY 7 MONTH TO DATE 172 165 SINCE JUL 1 3310 3692 -382 COOLING 0 YESTERDAY Q a 0 MONTH TO DATE 0 0 SINCE JAN 1 0 0 0 WIND (MPH) HIGHEST WIND SPEED 30 HIGHEST WIND DIRECTION S (190) HIGHEST GUST DIRECTION S (180)

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY. NO SIGNIFICANT WEATHER WAS OBSERVED.

RELATIVE HUMIDITY (PERCENT) 100 100 AM HIGHEST 300 PM 46 LOWEST 73 AVERAGE THE HILLSBORO OR CLIMATE NORMALS FOR TODAY NORMAL RECORD YEAR MAXIMUM TEMPERATURE (F) 55 70 1965 2005 MINIMUM TEMPERATURE (F) 36 24 1943 1951 SUNRISE AND SUNSET MARCH 9 2021.....SUNRISE 635 AM PST SUNSET 610 PM PST MARCH 10 2021.....SUNRISE 633 AM PST 612 PM PST SUNSET INDICATES NEGATIVE NUMBERS. -R INDICATES RECORD WAS SET OR TIED. MM INDICATES DATA IS MISSING. T INDICATES TRACE AMOUNT.

The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

## **Explanation of the Preliminary Monthly Climate Data (F6) Product**

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# WFO Monthly/Daily Climate Data

000 CXUS56 KPQR 011210 CF6HIO PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION:	HILL	SBC	DRO	OR
MONTH:	FEBF	RUA	۲Y	
YEAR:	2021	L		
LATITUDE:	45	32	Ν	
LONGITUDE:	122	57	W	

1	TEMPERATURE IN F:			:	:	:PCPN: SNOW:			WIND :SU			:SUNSHINE: SKY				:PK V	:PK WND		
1	2	3	4	5	6A	6B	7	8	9 127	10 4VG	11 MX	 12 2мтм	13	14	15	16	5 17	18	
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	s-s	WX	SPD	DR	
1	50	46	48	6	17	0	0.54	м	м	8.1	17	180	м	М	10	1	22	170	
2	50	40	45	3	20	0	0.46	М	М	10.8	3 26	180	М	М	8	1	37	180	
3	46	35	41	-1	24	0	0.10	М	М	3.1	21	180	М	М	10	1	25	180	
4	45	36	41	-1	24	0	0.01	М	М	3.9	<del>)</del> 13	180	М	М	9	1	16	190	
5	52	33	43	1	22	0	0.03	М	М	5.0	) 16	170	М	М	8	1	20	180	
6	48	31	40	-2	25	0	0.01	М	М	5.7	/ 18	180	М	М	9	12	26	210	
7	49	36	43	1	22	0	0.02	М	М	4.6	5 15	270	М	М	10	1	20	280	
8	45	31	38	-4	27	0	0.00	М	М	2.4	19	340	М	М	9	1	12	340	
9	47	27	37	-5	28	0	0.00	М	М	0.9	96	50	М	М	3	12	8	40	
10	47	31	39	- 3	26	0	0.00	М	М	2.0	9	40	М	М	8		13	40	
11	40	28	34	-8	31	0	0.10	М	М	7.5	5 21	80	М	М	10	1	28	70	
12	29	25	27	-15	38	0	0.41	М	М	10.0	) 17	80	М	М	10	16	25	80	
13	34	24	29	-13	36	0	0.33	М	М	5.0	) 18	120	М	М	10	16	23	100	
14	33	28	31	-11	34	0	0.48	М	М	1.9	9	120	М	М	10	16	12	80	
15	48	32	40	-2	25	0	0.18	М	М	3.3	3 16	230	М	М	9	12	23	210	
16	50	33	42	0	23	0	0.07	М	М	3.9	9 18	300	М	М	8	1	24	330	
17	50	33	42	0	23	0	Т	М	м	1.5	58	270	М	М	7	12	10	260	
18	41	35	38	-4	27	0	0.27	М	М	2.7	7 10	100	М	М	8	1	13	100	
19	49	38	44	1	21	0	0.11	М	М	3.8	3 14	160	М	М	10	12	15	160	
20	50	34	42	-1	23	0	Т	М	М	5.2	2 15	180	М	М	9	1	19	300	
21	51	42	47	4	18	0	Т	М	М	12.7	21	180	М	М	9		25	180	
22	52	37	45	2	20	0	0.22	М	М	11.2	2 22	180	М	М	9	1	28	180	
23	49	33	41	-2	24	0	0.07	М	М	5.4	17	230	М	М	6	1	22	240	
24	48	31	40	-3	25	0	0.07	М	М	1.3	88	40	М	М	6	12	11	290	
25	51	36	44	1	21	0	0.20	М	М	6.6	5 21	280	М	М	10	1	26	280	
26	50	40	45	2	20	0	0.23	М	М	9.4	1 31	320	М	M	9	1	37	310	
27	50	31	41	-3	24	0	Т	M	M	4.2	2 14	270	M	M	8		19	300	
28 ===	55 ====	39 ====	47 ====	3 ====	18 =====	0 ====	0.00 ======	M =====	M =====	3.8 ====	3 13 ====	160 ====:	M =====	M =====	5 ====		17 =======	170 ====	
SM	1309	92	15		686	0	3.91	Ν	1 :	145.9	)		М		237				
AV	46.8	33.	. 8		====			MISC		5.2 ->	2 FA 31	==== STST 320	===== M	 M	8	====	MAX(MPH 37 180	==== H)	

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION:	HILI	SBC	ORO	OR
MONTH:	FEBF	RUAF	RΥ	
YEAR:	2021	L		
LATITUDE:	45	32	Ν	
LONGITUDE:	122	57	W	

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 40.3 DPTR FM NORMAL: -2.0 HIGHEST: 55 ON 28 LOWEST: 24 ON 13	TOTAL FOR MONTH: 3.91 DPTR FM NORMAL: -0.50 GRTST 24HR 0.65 ON 12-13 SNOW, ICE PELLETS, HAIL TOTAL MONTH: M GRTST 24HR M ON M GRTST DEPTH: M ON M	<pre>1 = FOG OR MIST 2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS 3 = THUNDER 4 = ICE PELLETS 5 = HAIL 6 = FREEZING RAIN OR DRIZZLE 7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS 8 = CMOVE OR WATE</pre>
[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	8 = SMORE OR HAZE 9 = BLOWING SNOW X = TORNADO
MAX 32 OR BELOW: 1 MAX 90 OR ABOVE: 0 MIN 32 OR BELOW: 11 MIN 0 OR BELOW: 0 [HDD (BASE 65) ] TOTAL THIS MO. 686 DPTR FM NORMAL 52 TOTAL FM JUL 1 3138 DPTR FM NORMAL -387	0.01 INCH OR MORE: 20 0.10 INCH OR MORE: 13 0.50 INCH OR MORE: 1 1.00 INCH OR MORE: 0 CLEAR (SCALE 0-3) 1 PTCLDY (SCALE 4-7) 8 CLOUDY (SCALE 8-10) 19	
[CDD (BASE 65) ]TOTAL THIS MO.0DPTR FM NORMAL0TOTAL FM JAN 10DPTR FM NORMAL0[REMARKS]#FINAL-02-21#	[PRESSURE DATA] HIGHEST SLP 30.62 ON 24 LOWEST SLP 29.64 ON 15	

## **Explanation of the Preliminary Monthly Climate Data (F6) Product**

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# WFO Monthly/Daily Climate Data

238 CXUS56 KPQR 011210 CF6HIO PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION:	HILL	SBC	DRO	OR
MONTH:	JAN	JAR	Y	
YEAR:	2021	L		
LATITUDE:	45	32	Ν	
LONGITUDE:	122	57	W	

	ГЕМРЕ	RATU	JRE 1	EN F	:	:	PCPN:	9	SNOW:	WIN	ND		:SUNS	SHINE	: SKY	Y	:PK /	ND
1	2	3	4	5	6A	6B	7	8	9 127	 10 AVG	 11 МХ	==== 12 2мтм	13	14	15	16	5 17	18
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	s-s	WX	SPD	DR
===		====		====:	=====	=====		=====		=====	====	====:	=====		=====	====		
1	52	46	49	11	16	0	0.28	м	М	8.4	117	170	М	М	10	18	22	180
2	50	46	48	10	17	0	1.04	М	м	15.4	1 24	180	М	М	9	1	34	180
3	51	38	45	6	20	0	0.32	М	м	7.6	9 20	180	М	М	8	1	26	190
4	52	43	48	9	17	0	0.66	М	м	6.8	3 16	230	М	М	9	1	20	220
5	49	40	45	6	20	0	0.09	М	м	6.2	l 17	130	М	М	8	1	26	110
6	50	42	46	7	19	0	0.71	М	м	3.9	9 14	170	М	М	10	12	18	180
7	53	37	45	6	20	0	0.01	М	м	4.5	5 18	100	М	М	5	12	23	100
8	51	31	41	2	24	0	0.43	М	м	3.6	5 12	320	М	М	6	1	16	310
9	45	30	38	-1	27	0	0.03	М	м	2.5	5 10	300	М	М	6	12	12	300
10	47	39	43	3	22	0	0.12	М	м	1.6	5 12	90	М	М	10	12	13	80
11	50	39	45	5	20	0	0.52	М	м	3.1	L 13	180	М	М	9	12	17	170
12	59	50	55	15	10	0	1.85	М	м	13.5	5 22	210	М	М	10	1	29	210
13	59	39	49	9	16	0	0.01	М	М	5.3	3 31	280	М	M	2		40	270
14	54	35	45	5	20	0	0.02	М	м	2.8	39	290	М	M	3	1	11	290
15	50	44	47	7	18	0	0.06	М	M	2.1	L 8	80	M	M	10	1	9	70
16	49	39	44	4	21	0	0.00	М	м	2.4	17	170	М	М	7		8	180
17	50	35	43	3	22	0	0.03	М	м	2.3	37	310	М	М	8	12	8	310
18	53	30	42	2	23	0	0.00	М	М	2.5	59	310	М	M	3	12	11	60
19	54	28	41	0	24	0	0.00	М	м	2.6	8 6	120	М	М	0	1	12	90
20	47	26	37	-4	28	0	Т	M	M	0.6	55	290	M	M	4	1	6	220
21	49	38	44	3	21	0	0.14	М	М	2.1	L 8	60	M	M	9	18	10	60
22	51	29	40	-1	25	0	0.00	M	M	3.2	2 12	50	M	M	3		15	60
23	46	25	36	-5	29	0	0.00	M	M	0.6	56	140	M	M	3	12	7	160
24	39	35	37	-4	28	0	0.38	M	M	1.9	9 10	180	M	M	10	1	13	140
25	42	34	38	- 3	27	0	0.01	M	M	1.	/ 9	160	M	M	10	1	11	1/0
26	40	33	37	-4	28	0	0.4/	M	M	/.4	1 20	100	M	M	10	1	27	80
27	42	32	37	-4	28	0	0.22	M	M	2.6	5 10	200	M	M	10	12	13	200
28	46	34	40	-1	25	0	0.03	M	M	3.8	3 10	160	M	M	10	12	14	160
29	45	32	39	-2	26	0	0.0/	M	M	2.6	5 10	160	M	M	10	12	13	1/0
30	51	41	46	5	19	0	0.12	M	M	9.4	2 21	100	M	M	10	18	26	150
31	55	47	51	9	14	0	0.24	М	M	/.6	81.0	180	М	M	10	Т	24	1/0
==: cM	===== 1 E 2 1	====: 1 1 1	===== > 7	====:	====:			====:		120 4	====:	====:	=====		====: วว1	====		
ا۲ا ===	152T =====	. 11: :====	>/ =====	====	074 ====	0 ====	/.86 ======	r =====	". ======		L ====		ا^ر =====		231 ====			
AV	49.4	36	.7							4.	5 FA	STST	м	м	7		MAX (MPH	4)
			-					MISC		->	31	280					40 270	'

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NOTES: **# LAST OF SEVERAL OCCURRENCES** COLUMN 17 PEAK WIND IN M.P.H. PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2 STATION: HILLSBORO OR MONTH: JANUARY YEAR: 2021 LATITUDE: 45 32 N LONGITUDE: 122 57 W [TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16 AVERAGE MONTHLY: 43.0 TOTAL FOR MONTH: 7.86 1 = FOG OR MISTDPTR FM NORMAL: DPTR FM NORMAL: 2.9 1.80 2 = FOG REDUCING VISIBILITY 59 ON 13,12 GRTST 24HR 2.53 ON 11-12 HIGHEST: TO 1/4 MILE OR LESS 25 ON 23 LOWEST: 3 = THUNDER4 = ICE PELLETS SNOW, ICE PELLETS, HAIL TOTAL MONTH: M 5 = HAILGRTST 24HR 6 = FREEZING RAIN OR DRIZZLE M ON М GRTST DEPTH: M ON 7 = DUSTSTORM OR SANDSTORM: М VSBY 1/2 MILE OR LESS 8 = SMOKE OR HAZE [NO. OF DAYS WITH] [WEATHER - DAYS WITH] 9 = BLOWING SNOW X = TORNADOMAX 32 OR BELOW: 0 0.01 INCH OR MORE: 25 MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 15 MIN 32 OR BELOW: 9 0.50 INCH OR MORE: 5 MIN Ø OR BELOW: 0 1.00 INCH OR MORE: 2 [HDD (BASE 65) ] CLEAR (SCALE 0-3) TOTAL THIS MO. 674 5 PTCLDY (SCALE 4-7) DPTR FM NORMAL -98 8 CLOUDY (SCALE 8-10) 18 TOTAL FM JUL 1 2452 DPTR FM NORMAL -443 [CDD (BASE 65) ] TOTAL THIS MO. 0 DPTR FM NORMAL 0 [PRESSURE DATA] TOTAL FM JAN 1 0 HIGHEST SLP 30.54 ON 17 DPTR FM NORMAL 0 LOWEST SLP 29.39 ON 26 [REMARKS]

#FINAL-01-21#

## **Explanation of the Preliminary Monthly Climate Data (F6) Product**

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# WFO Monthly/Daily Climate Data

232 CXUS56 KPQR 011537 CF6HIO PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION:	HILL	SBC	DRO	OR
MONTH:	DECE	EMB	ER	
YEAR:	2026	9		
LATITUDE:	45	32	Ν	
LONGITUDE:	122	57	W	

	TEMPE	RATU	JRE I	EN F	:		PCPN:	<u> </u>	SNOW:	WIN	ND		:SUNS	SHINE	: SK`	Y	:PK W	IND
1	2	3	4	5	6A	6B	7	8	9 127	 10 AVG	11 MX	==== 12 2мтм	13	14	15	16	5 17	18
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	s-s	WX	SPD	DR
==		====	-===:		====:	====:	=====	====:				====:		=====	====:	====		
1	51	30	41	0	24	0	0.00	М	М	5.8	3 20	80	М	М	5	12	28	70
2	55	33	44	4	21	0	0.00	М	М	11.3	3 21	100	М	М	0		30	90
3	50	30	40	0	25	0	0.00	М	М	1.7	77	290	М	М	1		8	290
4	55	26	41	1	24	0	0.00	M	M	2.4	1 8	310	M	М	0	1	10	330
5	54	28	41	1	24	0	0.01	M	M	3.7	/ 14	100	M	M	3		16	100
6	4/	38	43	3	22	0	0.03	M	M	1.8	5 /	70	M	M	10	1	9	50
/	50	34	42	3	23	0	0.00	M	M M	1 0.5	1 / 5 1/	300	M	M	L	1	8 10	140
0	54 50	25	44	2 1	21	0	0.18 T	M	M	2.0	) 14 ) 12	210	M M	M	0	⊥ 1 つ	10	210 210
10	11	27	20	- 4 - 1	22	0	0 1 2	M	м	2.2	2 13	170	M	M	10	12	10	170
11	41 // 2	34	30	-1	27	a	0.12	M	M	1 0	) 10 01 (	30	M	M	10	12	12	30
12	46	31	39	1	26	a a	0.40 0 04	м	M	5 5	5 16	90	M	M	5	12	20	80
13	44	38	41	3	24	õ	0.44	M	M	2.0	) <u>1</u> 0	110	M	м	10	1	16	130
14	45	36	41	3	24	õ	Т	M	M	1.7	7 8	230	M	M	-0	12	10	320
15	49	41	45	7	20	0	0.11	M	M	9.6	22	170	M	М	9	1	27	170
16	50	42	46	8	19	0	0.47	М	М	4.7	7 16	190	М	М	8	1	22	180
17	52	38	45	7	20	0	0.02	М	М	5.4	l 13	240	М	М	8	1	18	180
18	50	38	44	6	21	0	0.17	М	М	8.3	3 22	180	М	М	8	1	26	180
19	53	44	49	11	16	0	0.48	М	М	9.9	9 22	180	М	М	10	1	30	180
20	53	46	50	12	15	0	1.24	М	М	2.7	7 13	180	М	М	10	1	16	170
21	59	41	50	12	15	0	0.28	М	м	9.8	3 30	310	М	М	9	1	39	180
22	49	31	40	2	25	0	0.03	М	М	3.5	5 17	260	М	М	7	12	23	280
23	49	28	39	1	26	0	0.00	М	М	3.3	3 10	60	М	М	3	12	13	70
24	44	22	33	-5	32	0	0.00	М	М	2.6	57	290	М	М	0	1	8	300
25	49	31	40	2	25	0	0.61	М	М	4.3	3 20	160	М	М	8	1	25	150
26	51	40	46	8	19	0	0.10	M	M	7.6	5 15	170	M	M	7	1	19	200
27	52	32	42	4	23	0	0.02	M	M	3.6	5 12	60	M	M	4	12	16	60
28	48	26	3/	-1	28	0	0.00	M	M	3.4	+ 8	310	M	M	9	1	10	/0
29	3/	27	32	-6	33	0	0.06	M	M	1.0	) / - 10	300	M	M	10	12	8 25	120
30 21	4/ E1	30 45	42	10	23	0	0.42	M	M M	8.0	0 18 0 16	100	M	M	10	1	25	100
		45	40	10			0.04	۳۱ 	M 	9.0		190	M	M 	9	т 		190
SM	1527	106	56		712	0	5.27	N	1 1	144.7	7		M		196			
==	=====	====	=====	====:	====:	====:		====:			==== 7	====:	=====	=====:	====:	====		-===
AV	49.3	54.	. 4					MTS		4./ ->	7 FA	310	M	М	o		39 180	1)

\_\_\_\_\_

NOTES: # LAST OF SEVERAL OCCUR	RENCES		
COLUMN 17 PEAK WIND IN	М.Р.Н.		
PRELIMINARY LOCAL CLIMA	TOLOGICAL DATA (WS	FORM: F-6	5) , PAGE 2
		STATION: MONTH: YEAR: LATITUDE: LONGITUDE	HILLSBORO OR DECEMBER 2020 : 45 32 N : 122 57 W
[TEMPERATURE DATA]	[PRECIPITATION DA	TA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 41.8 DPTR FM NORMAL: 3.3 HIGHEST: 59 ON 21 LOWEST: 22 ON 24	TOTAL FOR MONTH: DPTR FM NORMAL: GRTST 24HR 1.46 ( SNOW, ICE PELLETS TOTAL MONTH: M GRTST 24HR M ( GRTST DEPTH: M (	5.27 -1.47 ON 19-20 , HAIL ON M ON M	<pre>1 = FOG OR MIST 2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS 3 = THUNDER 4 = ICE PELLETS 5 = HAIL 6 = FREEZING RAIN OR DRIZZLE 7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS</pre>
[NO. OF DAYS WITH]	[WEATHER - DAYS W	ІТН]	8 = SMOKE OK HAZE 9 = BLOWING SNOW X - TORNADO
MAX 32 OR BELOW: 0 MAX 90 OR ABOVE: 0 MIN 32 OR BELOW: 13 MIN 0 OR BELOW: 0	0.01 INCH OR MORE 0.10 INCH OR MORE 0.50 INCH OR MORE 1.00 INCH OR MORE	: 21 : 13 : 2 : 1	
[HDD (BASE 65) ] TOTAL THIS MO. 712 DPTR FM NORMAL -108 TOTAL FM JUL 1 1778 DPTR FM NORMAL -342	CLEAR (SCALE 0-3 PTCLDY (SCALE 4-7 CLOUDY (SCALE 8-16	) 7 ) 9 ∂) 15	
[CDD (BASE 65) ]TOTAL THIS MO.0DPTR FM NORMAL0TOTAL FM JAN 1344DPTR FM NORMAL146	[PRESSURE DATA] HIGHEST SLP 30.58 LOWEST SLP 29.61	ON 1 ON 21	
[REMARKS]			

#FINAL-12-20#



# Appendix D: Wetland Determination Data Forms

Project/Site: Oregon Street Business Park		City/County: Sherwood / Washington Sampling Date: 3/8/2021				
Applicant/Owner: Oregon Street Business Park,			Sampling Point: 1			
Investigator(s): Stacey Reed, PWS and Sonya T	empleton	Section,	Township, Ran	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslope, terrace, etc.): Toeslope			Local relief (c	oncave, convex, none):	Concave Slope (%): <3%	
Subregion (LRR): A. Northwest Forests and Coa	ist l	at: 45.360742	Lo	ng: -122.823014	Datum:	
Soil Map Unit Name: Briedwell stony silt	loam, (Unit 5B), 0%	to 7% slopes; No	on-hydric	NWI c	lassification: None	
Are climatic / hydrologic conditions on the site typ	ical for this time of	year?	Y	es <u>X</u> No	(If no, explain in Remarks)	
Are Vegetation, Soil	, or Hydrology	significantly di	sturbed? A	re "Normal Circumstance	es" present? Yes X No	
Are Vegetation, Soil	, or Hydrology	naturally probl	lematic? (I	f needed, explain any an	swers in Remarks.)	
SUMMARY OF FINDINGS - Attach si	te map showir	ng sampling p	oint locatior	ns, transects, impoi	rtant features, etc.	
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Samp	led Area		
Wetland Hydrology Present?	Yes X	No	within a Wet	tland? Yes <u>)</u>	( No	
Precipitation: According to the NWS Hillsboro weather station, ( 	0.01 inches of rainf	all was received or	n the day of and	1.02 inches within the tw	o weeks prior.	
VEGETATION				- [		
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot Size: 30' r or )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1. Populus balsamifera	10%	Yes	FAC	That Are OBL, FACW	/, or FAC: <u>6</u> (A)	
2.						
3				Total Number of Dom	ninant	
4.				Species Across All St	trata: <u>6</u> (B)	
	10% =	Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or	)			Percent of Dominant	Species	
1. Fraxinus latifolia	20%	Yes	FACW	That Are OBL, FACW	/, or FAC: <u>100%</u> (A/B)	
2. Rosa nutkana	15%	Yes	FAC	Prevalence Index we	orksheet:	
<sup>3.</sup> Alnus rubra	10%	No	FAC	Total % Cover o	f: Multiply by:	
4. Symphoricarpos albus	5%	No	FACU	OBL species 1	0 x 1 = 10	
5. Rubus armeniacus	3%	No	FAC	FACW species 2	0 x 2 = 40	
	53% =	Total Cover		FAC species 7	3 x 3 = 219	
Herb Stratum (Plot Size: 5' r or )				FACU species	5 x 4 = 20	
1. Ranunculus repens	20%	Yes	FAC	UPL species (	) x 5 = 0	
2. Alopecurus pratensis	15%	Yes	FAC	Column Totals: 10	08 (A) 289 (B)	
3. Carex obnupta	10%	Yes	OBL	Prevalence Index	k = B/A = <u>2.68</u>	
4.				Hydrophytic Vegeta	tion Indicators:	
5.				1 - Rapid Test for	<sup>r</sup> Hydrophytic Vegetation	
6.				X 2 - Dominance Te	est is >50%	
7.				X 3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8.				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting	
9.				data in Remar	ks or on a separate sheet)	
10.				5 - Wetland Non-	Vascular Plants <sup>1</sup>	
11.				Problematic Hydr	ophytic Vegetation (Explain) <sup>1</sup>	
	45% =	Total Cover		<sup>1</sup> Indicators of hydric s	oil and wetland hydrology must	
Woody Vine Stratum (Plot Size: 10' r or)				be present.	, , , ,	
1						
2				Hydrophytic		
% Poro Cround in Horb Strature	0% =	Total Cover		Vegetation	Yes X No	
<sup>70</sup> Date Ground in Herb Stratum 55%				Present?		
Remarks:						

SOIL							Sampling Point:	1	
Profile Descrip	otion (Describe to	o the depth nee	eded to document t	he indicator or	confirm the abse	ence of indicator	rs):		
Depth	Ma	atrix		Redox I	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 3/2	98	7.5YR 4/4	2	С	М	SiL		
5-11	10YR 3/2	95	7.5YR 4/4	5	С	М	SiL		
11-16	10YR 4/1	95	7.5YR 4/4	5	С	М	SiL		
<sup>1</sup> Type: C=Conce	entration, D=Depl	etion, RM=Redu	uced Matrix CS=Cov	ered or Coated S	Sand Grains.				
<sup>2</sup> Location: PL=F	Pore Lining, M=Ma	atrix.							
Hydric Soil Indi	icators (Applicat	ole to all LRRs,	unless otherwise n	oted):		Indicators for	r Problematic Hydric So	oils <sup>3</sup> :	
Histosol (A1	1)		Sandy Redox (	S5)		2 cm Muc	k (A10)		
Histic Epipe	edon (A2)		Stripped Matrix	(S6)		Red Parer	nt Material (TF2)		
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1)						Very Shall	low Dark Surface (TF12)		
Hydrogen S	Sulfide (A4)		Other (Exp	plain in Remarks)					
X Depleted Be	elow Dark Surface	e (A11)	Depleted Matrix	(F3)					
Thick Dark	Surface (A12)		X Redox Dark Su	rface (F6)		<sup>3</sup> Indicators of I	hydronhytic vegetation a	ad wetland	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)						hydrology mus	st be present, unless dist	urbed or	
Sandy Gleyed Matrix (S4) Redox Depressions (F8)						problematic.			
Restrictive Lay	er (if present):								
Тур	Туре:								
Depth (inches):						Present?	Yes X	No	
Demerker									
Remarks.									
HYDROLOG	iΥ								
Wetland Hydro	logy Indicators:								
Primary Indicato	ors (minimum of or	ne required; che	ck all that apply)			Secondary Inc	dicators (2 or more requir	ed)	
Surface Wa	ter (A1)		Water-Stained I	Leaves (B9) (exc	cept MLRA	Water-Sta	ined Leaves (B9) (MLRA	1, 2,	
X High Water	Table (A2)		1, 2, 4A, and	4B)		4A, and 4B)			
X Saturation (	A3)		Salt Crust (B11	)		Drainage	Patterns (B10)		
Water Mark	s (B1)		Aquatic Invertel	brates (B13)		Dry-Seaso	on Water Table (C2)		
Sediment D	eposits (B2)		Hydrogen Sulfic	de Odor (C1)		Saturation	Visible on Aerial Imager	y (C9)	
Drift Deposi	its (B3)		Oxidized Rhizo	spheres along Li	iving Roots (C3)	Geomorph	nic Position (D2)		
Algal Mat or	r Crust (B4)		Presence of Re	duced Iron (C4)		Shallow A	quitard (D3)		
Iron Deposi	ts (B5)		Recent Iron Re	duction in Tilled	Soils (C6)	FAC-Neut	ral Test (D5)		
Surface Soi	l Cracks (B6)		Stunted or Stree	ssed Plants (D1)	) (LRR A)	Raised Ar	nt Mounds (D6) (LRR A)		
Inundation \	visible on Aerial Ir	magery (B7)	Other (Explain i	in Remarks)		Frost-Hea	ve Hummocks (D7)		
Sparsely Ve	egetated Concave	Surface (B8)							
Field Observati	ions:								
Surface Water	Present? Y	es	No X	Depth (inches	s):	Wetland			
Water Table Pre	esent? Y	es X	No	Depth (inches	s): 9"	Hydrolog	y Yes X	No	
Saturation Pres	ent? Y	es X	No	Depth (inches	s): 12"	Present?			
(includes capilla	ary fringe)								
Describe Reco	orded Data (strea	m gauge, moni	toring well, aerial p	hotos, previou	s inspections), if	available:			
Demeriker									
Remarks:									

Project/Site: Oregon Street Business Park		City/County: Sherwood / Washington Sampling Date: 3/8/2021				
Applicant/Owner: Oregon Street Business Park,	State: OR	Sampling Poir	nt: <b>2</b>			
Investigator(s): Stacey Reed, PWS and Sonya Te	empleton	Section,	Township, Rang	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslope, terrace, etc.): Toeslope			Local relief (co	oncave, convex, none):	Convex Slo	pe (%): <u>3-5%</u>
Subregion (LRR): A. Northwest Forests and Coa	st La	at: 45.360746	Lor	ng: -122.822961	Datum:	
Soil Map Unit Name: Briedwell stony silt I	oam, (Unit 5B), 0%	to 7% slopes; No	n-hydric	NWI c	assification:	None
Are climatic / hydrologic conditions on the site typi	cal for this time of y	ear?	Ye	es <u>X</u> No	(If no, explain ir	າ Remarks)
Are Vegetation , Soil	, or Hydrology	significantly di	sturbed? A	re "Normal Circumstance	s" present? Ye	s X No
Are vegetation, Soli	, or Hydrology	naturally probl	ematic? (l'	r needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach sit	te map showing	g sampling p	oint location	is, transects, impor	tant features, e	tc.
Hydrophytic Vegetation Present?	Yes <u>X</u> N	No	In the Comm			
Hydric Soil Present?	Yes N	lo <u>X</u>	is the Sampi	leu Area		
Wetland Hydrology Present?	YesN	No <u>X</u>	within a wet	Yes	NoX	
Precipitation: According to the NWS Hillsboro weather station, 0 Remarks:	0.01 inches of rainfa	ll was received or	n the day of and	1.02 inches within the two	o weeks prior.	
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot Size: 30' r or )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1. Populus balsamifera	30%	Yes	FAC	That Are OBL, FACW	, or FAC:	3 (A)
2.						
3.				Total Number of Dom	inant	
4.				Species Across All St	rata:	5 <u>(</u> B)
	<u> </u>	otal Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or	)			Percent of Dominant	Species	
1. Symphoricarpos albus	20%	Yes	FACU	That Are OBL, FACW	, or FAC: <u>60</u>	<u>1%</u> (A/B)
2. Mahonia aquifolium	15%	Yes	FACU	Prevalence Index we	orksheet:	
<sup>3.</sup> Rosa nutkana	10%	No	FAC	I otal % Cover of	r: Multiply by:	
4. Ilex aquifolium	10%	No	FACU	OBL species (	x 1 =	0
5. <u>Rubus armeniacus</u>	3%	No	FAC	FACW species <u>(</u>	) x 2 =	0
	<u>58%</u> = T	otal Cover		FAC species 6	<u>8 x 3 =</u>	204
Herb Stratum (Plot Size: 5 r or )				FACU species 4	5 x 4 =	180
1 Carex leptopoda	20%	Yes	FAC	OPL species 2	x 5 =	<u>10</u> (D)
2. Ranunculus repens	5%	Yes	FAC	Column Totals: 11	<u>5</u> (A)	<u>394</u> (B)
3. Geranium molle	2%	No	NOL	Prevalence Index	tion Indicators	3.43
4		·		1 Papid Test for	Hydrophytic Vegeta	tion
5. 		·		X 2 Dominance T	Hydrophylic vegeta	lion
7					$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$	
8				3 - Prevalence inc	$\frac{1}{2} \frac{1}{2} \frac{1}$	do curronting
9				data in Remar	ks or on a senarate s	sheet)
10		<u> </u>		5 - Wetland Non-	Vascular Plants <sup>1</sup>	,1000)
11				Problematic Hydr	ophytic Vegetation (F	-xplain) <sup>1</sup>
····		otal Cover		<sup>1</sup> Indicators of hydric s	oil and wetland hydro	ology must
Woody Vine Stratum (Plot Size: 10' r or)				be present.		
2.				Hydrophytic		
	0% = T	otal Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum				Present?		
Remarks:						
Dare ground covered by leaf litter.						

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):       Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> 0-16       10YR 3/2       100       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup>	Sampling Point:	2			
Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Type <sup>1</sup> Loc <sup>2</sup>					
(inches)         Color (molet)         %         Color (molet)         %         Type         Loc <sup>2</sup> 0-16         10YR 3/2         100					
0-16         10YR 3/2         100           0-16         10YR 3/2         100           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0         0           0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0         0           0         0         0         0         0         0         0         0 <th>Texture</th> <th>Remarks</th>	Texture	Remarks			
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Type:       C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Type:       Sandy Redox (S5)       2 cm Muck (A7         Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A7         Histosol (A2)       Stripped Matrix (S6)       2 cm Muck (A7         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow ID         Hydrogen Sulfide (A4)       Loamy Oleyed Matrix (F2)       Other (Explain         Depleted Bark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F6)       ************************************	SiL				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Location: PL=Pore Lining, M=Matrix.         Yight: Soli Indicators (Applicable to all LRRs, unless otherwise noted):         Histosol (A1)					
Type: C-Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Proc         Histose (A1)       Sandy Redox (S5)       2 cm Muck (A1         Histose (A1)       Loarny Givey Matrix (S6)       2 cm Muck (A1         Black Histic (A3)       Loarny Givey Matrix (S6)       9 cm Muck (A1         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       0 ther (Explain         Depleted Below Dark Surface (A12)       Redox Dark Surface (F7)       hydrology must be problematic.         Sandy Micky Mineral (S1)       Depleted Dark Surface (F7)       hydrology must be problematic.         Sandy Givey Matrix (S4)       Redox Depressions (F8)       Problematic.         Restrictive Layer (If present):       Type:       Hydric Soil         Type:       Hydric Soil       Present?         Remarks:       Startardions (minimum of one required; check all that apply)       Secondary Indicators         Wattand Hydrology Indicators:       Startardions (R11)       Drinage Patienton K3         Startardions (Matri K3)       Salt Crust (B11)       Drinage Patienton K3         Startardio K3)       Salt Crust (B11)       Drinage Patienton K3         Startardio K3)       Salt Crust					
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Lizzation:       PL=Pore Lining, M=Matrix.         Hydric Soll Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Prc         Histic Epipedon (A2)       Stripped Matrix (S6)       2 cm Muck (A1)         Biack Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow I         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       ************************************					
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         "Coaction: PL=Fore Lining, M=Matrix.         "Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Pro         Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A1         Histosol (A2)       Stripped Matrix (F3)       Red Parent Mb         Black Histos (A3)       Loarny Mukxy Mineral (F1) (except MLRA 1)       Other (Explain         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Thick Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> Indicators of hydrin hydrology must be problematic.         Sandy Muky Mineral (S1)       Depleted Dark Surface (F7)       hydrology must be problematic.         Restrictive Layer (If present):       Type:       Hydric Soil         Type:       Mydrice Soil       Present?         Remarks:       Present?       Secondary Indicators         Phydre Matrix (B1)       Muster-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Dranage Pater Marks (B1)       Apuatic Invertebrates (B13)       Dry-Season Vis         Saturation (A3)       Salt Crust (B1)       Apuatic Invertebrates (B					
Type:       C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Location:       PL=Fore Lining, M=Matrix.         Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Proc         Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A1)         Histosol (A1)       Sandy Redox (S5)       Red Parent Ma         Black Histic (A3)       Loarny Mucky Mineral (F1) (except MLRA 1)       Very Shallow I         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> Indicators of hydr         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Problematic.         Restrictive Layor (if present):       Type:       Hydric Soil         Type:       Present?       Hydric Soil         Depth (inches):       Sand Crust (B11)       Drainage Patte         Surface Water (A1)       4A, and 4B)       4A, and 4B)         Saturation (A3)       Sati Crust (B11)       Drainage Patte         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Surface Soil Cracks (B6)       Stunted or Stressed Pl					
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Location: PL=Pore Lining, M=Matrix.         HydrC Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Prc         Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A1)         Histosol (A2)       Stripped Matrix (S6)       Red Parent Mic         Black Histo (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shalow I         Updeted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       *indicators of hydrn hydrology must be problematic.         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       problematic.         Restrictive Layer (If present):       Type:       Hydric Soil         Type:       Type:       Present?         Remarks:       Satiface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (except MLRA         HyDROLOGY       Saturation (A3)       Satiface Under Reduced Iron (C4)       Saturation Visite Care (C1)       Saturation Visite Care (C1)         Saturation (A3)       Satiface Chare Set (S13)       Dry-Season W       Saturation Visite Care (S6)       Saturation Visite Care (S6)         Saturation (A3)       Satiface Water (C1)       Saturation Visite Care (S6) <td></td> <td></td>					
Type:       Concentration, UPDepietion, RM=Reduced Matrix CS=Covered of Coated Sand Grains.         Location:       PL=Pore Lining, MM=rixe         Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Prc         Histisc Epipedon (A2)       Stripped Matrix (S6)					
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Pro         Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A'         Histosol (A2)       Stripped Matrix (S6)       Red Parent M.         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow I         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F6) <sup>3</sup> Indicators of hydre         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F7)       hydrology must be         problematic.       Redox Dark Surface (F7)       hydrology must be         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Problematic.         Pepth (inches):					
Histosol (A1)	roblematic Hydric So	ils <sup>3</sup> :			
Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent M:         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow I         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1)       Other (Explain         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain         Thick Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> Indicators of hydre hydrology must be problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       hydrology must be problematic.         Restrictive Layer (If present):       Type:       Hydric Soil         Depth (inches):       Hydric Soil       Present?         Remarks:       Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator       Secondary Indicators         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Sail Crust (B11)       Drainage Patte       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W       Setoment Deposits (B3)       Oxid/aced Rhizospheres along Living Roots (C3)       Geomorphic P)         Alg	A10)				
Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow I         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydr         Thick Dark Surface (A12)       Redox Dark Surface (F7)       hydrology must be         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       hydrology must be         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       problematic.         Restrictive Layer (if present):       Type:       Hydric Soil       Present?         Pepth (inches):	Material (TF2)				
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thick Dark Surface (A12)       Redox Dark Surface (F7)       Sindicators of hydre hydrology must be problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Hydric Soil       Problematic.         Restrictive Layer (if present):       Type:       Hydric Soil       Present?         Remarks:       Hydrology Indicators:       Present?       Hydric Soil         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators       Secondary Indicators         Primary Indicators (Matrix (B1)       Quark-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (except MLRA       Water-Stained Park and 4B)         Sutractor (A3)       Salt Crust (B11)       Drainage Patte       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita       Raised Ant Mo         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visibe on Aerial Imagery (B7)       Other (Explain in Remarks)       Frest-Heave H         Sparsely Vegetated Concave Surface (B8)       Stunted or Stressed Pl	/ Dark Surface (TF12)				
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Problematic.       Restrictive Layer (if present):         Type:       Hydric Soil         Depth (inches):       Present?         Remarks:       Hydric Soil         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicate         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxid/zed Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of ReduceI non (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAc-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Ma         I	in in Remarks)				
Thick Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> Indicators of hydrr, hydrology must be problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       hydrology must be problematic.         Restrictive Layer (If present):       Type:       Hydric Soil         Depth (inches):       Hydric Soil       Present?         Remarks:       Present?       Hydric Soil         Metand Hydrology Indicators:       Present?       Secondary Indicators         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1. 2. 4A, and 4B)       AA, and 4B)         Saturation (A3)       Sait Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Sturface Stepsed Plants (D1) (LRR A)       Raised Ant Ma         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-					
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydring yours be problematic.         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Problematic.         Restrictive Layer (if present):       Type:       Hydric Soil         Depth (inches):       Present?       Hydric Soil         Remarks:       Present?       Secondary Indicators         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1. 2, 4A, and 4B)       4A, and 4B         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aquita         Iron Deposits (B5)       Recent fron Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent for Neduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Test-Heave					
Sandy Gleyed Matrix (S4)      Redox Depressions (F8)       problematic.         Restrictive Layer (if present):       Type:	hydrology must be present. unless disturbed or				
Restrictive Layer (if present): Type:       Hydric Soil Present?         Depth (inches):       Hydric Soil Present?         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Secondary Indicators:         Primary Indicators (Mainimum of one required; check all that apply)       Secondary Indicators         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Oxidized Rhizospheres along Living Roots (C3)       Geomorphic PI       Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H <t< td=""><td colspan="4">problematic.</td></t<>	problematic.				
Type:       Hydric Soil         Depth (inches):       Present?         Remarks:       HYDROLOGY         Wetland Hydrology Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patter         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visil         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Pi         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Mater Table Present?       Yes       No       Depth (inches):       13"       Hydrology         Saturation Present?       Yes					
Depth (inches):       Present?         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Pi         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Fleid Observations:       Wetland         Sutrace Water Present?       Yes       No       Depth (inches):       13"         Water Table Present?       Yes					
Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Fleid Observations:       Wetland         Water Table Present?       Yes       No       Depth (inches):       15"         Saturation Present?       Yes       No       Depth (inches):	Yes	No X			
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicator					
Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Saturation Present?       Yes       No         Saturation Present?       Yes       No       Depth (inches):       15"         Water Table Present?       Yes       No       Depth (inches):       13"       Hydrology         Presention Present?       Yes       X       Depth (inches):					
Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Saturation Present?       Yes       No       Depth (inches):       13"         Water Table Present?       Yes       No       Depth (inches):       13"       Present?         Water Table Present?       Yes       X       No       Depth (inches):       13"       Present?         Water Table Present?       Yes       X       No       Depth (inches):       13"       Present?	ators (2 or more require	ed)			
High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patte         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Saturation Present?       Yes       No       Depth (inches):       15"         Field Observations:       Yes       X       No       Depth (inches):       13"       Present?         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Bescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Saturation       Saturation       Saturation	d Leaves (B9) (MI RA	12			
Saturation (A3)	4A, and 4B)				
Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season W         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Person       Wetland         Field Observations:       No       Depth (inches):       15"         Surface Water Present?       Yes       No       Depth (inches):       15"         Saturation Present?       Yes       No       Depth (inches):       13"       Present?         Quescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drainage Patterns (B10)				
Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visi         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mode         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Sturface Water Present?       Yes       No       Modept Microhes):       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	son Water Table (C2)				
Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic P         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Sturface Water Present?       Yes       No       Depth (inches):       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquita         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mo         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Wetland         Surface Water Present?       Yes       No       Depth (inches):       15"         Water Table Present?       Yes       X       No       Depth (inches):       13"         Saturation Present?       Yes       X       No       Depth (inches):       13"         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Position (D2)	<b>、</b> ,			
Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral T         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mc         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Wetland         Surface Water Present?       Yes       No       Depth (inches):       15"         Water Table Present?       Yes       X       No       Depth (inches):       15"         Saturation Present?       Yes       X       No       Depth (inches):       13"         Cincludes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	itard (D3)				
Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mc         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Wetland         Surface Water Present?       Yes       No       X       Depth (inches):       15"         Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Unit of the stream gauge is the stream gauge	Test (D5)				
Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave H         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Wetland         Surface Water Present?       Yes       No       X       Depth (inches):       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Includes capillary fringe)       No       No       Depth (inches):       13"       Image: Construction of the second data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	lounds (D6) (LRR A)				
Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       No         Saturation Present?       Yes         X       No         Depth (inches):       15"         Hydrology         Present?         Yes       X         No       Depth (inches):         13"         Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hummocks (D7)				
Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Includes capillary fringe)       Ves       X       No       Depth (inches):       13"       Present?					
Surface Water Present?       Yes       No       X       Depth (inches):       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         Viculates capillary fringe)       Ves       X       No       Depth (inches):       13"       Present?					
Water Table Present?       Yes       X       No       Depth (inches):       15"       Hydrology         Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         (includes capillary fringe)       Present?       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Saturation Present?       Yes       X       No       Depth (inches):       13"       Present?         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Yes	No X			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					
Pit was left open for approximately 2 hours.					

Project/Site: Oregon Street Business Park		City/County: Sherwood / Washington Sampling Date: 3/8/2021				
Applicant/Owner: Oregon Street Business Park, LL	С	State: OR Sampling Point:				
Investigator(s): Stacey Reed, PWS and Sonya Tem	pleton	Section,	Township, Rang	je: <u>Sec. 28, T.2S., R.1W</u> .	, W.M.	
Landform (hillslope, terrace, etc.): Toeslope			Local relief (co	oncave, convex, none):	Convex Slop	e (%): <u>&lt;3%</u>
Subregion (LRR): A. Northwest Forests and Coast	Lat:	45.360853	Lon	ıg: <u>-122.822879</u>	Datum:	
Soil Map Unit Name: Briedwell stony silt loa	m, (Unit 5B), 0% to	7% slopes; Nor	n-hydric	NWI cl	assification:	None
Are climatic / hydrologic conditions on the site typica	I for this time of yea	ar?	Ye	es X No	(If no, explain in	Remarks)
Are Vegetation, Soil, c	r Hydrology	significantly dis	sturbed? Ar	re "Normal Circumstance	s" present? Yes	s <u>X</u> No
	r Hydrology			needed, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS – Attach site	map showing	sampling po	pint location	s, transects, impor	tant features, et	с.
Hydrophytic Vegetation Present? Ye	s <u>X</u> No		le the Semal			
Hydric Soil Present? Ye	sNo	<u> </u>	within a Wot	land2		
Wetland Hydrology Present? Ye	sNo	<u> </u>	within a weth	Yes	No <u></u>	
Precipitation: According to the NWS Hillsboro weather station, 0.0 Remarks:	1 inches of rainfall v	was received on	the day of and <sup>-</sup>	1.02 inches within the two	o weeks prior.	
VEGETATION				<del></del>		
	Absolute	Dominant	Indicator	Dominance Test wor	rksheet:	
Tree Stratum (Plot Size: 30' r or)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
<sup>1.</sup> Pseudotsuga menziesii	20%	Yes	FACU	That Are OBL, FACW	, or FAC: <u>3</u>	(A)
<sup>2.</sup> Populus balsamifera	10%	Yes	FAC			
4				Total Number of Dom	inant	
	<b>_</b>		<u> </u>	Species Across All Sti	rata: 5	(B)
Sanling/Shrub Stratum (Plot Size: 10' r.or.	30% = 10t	al Cover		Porcent of Dominant (	Spacias	
	00%	N	540			
2. Crotocorus monogrups	20%	Yes	FAC	That Are OBL, FACW	, or FAC: <u>00</u>	<u>/0</u> (A/B)
3. Physics monogyna	5%	No		Total % Cover of	f: Multiply by:	
4 Ilex aquifolium	5%	No	FACU	OBL species	x 1 =	
5. Oemleria cerasiformis	5%	No	FACU	FACW species 5	x 2 =	10
	50% = Tota	al Cover		FAC species 4	5 x 3 =	135
Herb Stratum (Plot Size: 5' r or )				FACU species 30	) x 4 =	120
1. Tellima grandiflora	20%	Yes	FACU	UPL species 0	x 5 =	0
2.				Column Totals: 8(	) (A)	265 (B)
3.				Prevalence Index	= B/A = <u>3</u>	3.31
4.				Hydrophytic Vegetat	tion Indicators:	
5.				1 - Rapid Test for	Hydrophytic Vegetati	on
6				X 2 - Dominance Te	est is >50%	
7				3 - Prevalence Inc	dex is ≤3.0 <sup>1</sup>	
8				4 - Morphological	Adaptations <sup>1</sup> (Provid	e supporting
9				data in Remark	ks or on a separate sl	neet)
10				5 - Wetland Non-	/ascular Plants <sup>1</sup>	
11				Problematic Hydro	ophytic Vegetation (E	xplain)'
Woody Vine Stratum (Plot Size: 10' r or)	<u>20%</u> = Tota	al Cover		<sup>1</sup> Indicators of hydric so be present.	oil and wetland hydro	logy must
2.	·			Hydrophytic		
% Bare Ground in Herb Stratum80%	<u>0%</u> = Tot	al Cover		Vegetation Present?	Yes X No	
<b>Remarks:</b> Bare ground covered by leaf litter.						

Peoline Description (Description to the depth needed to document the indicator or confirm the absence of indicators);       Peolon Features       Peolon Features         Implain       Matrix       Retrox Features       Implain	SOIL						Sampling Point:	3		
Depth         Matrix         Redox Features           (inches)         Color (most)         %         Type1         Loc2         Tentare         F           (b-10         107R 3/2         100	Profile Descriptio	n (Describe to tl	ne depth need	led to document f	the indicator or confirm the al	bsence of indicators	s):			
(inches)         Color (moist)         %         Type <sup>1</sup> Loc <sup>2</sup> Texture         F           0-16         10YR 3/2         100	Depth	Matri	х		Redox Features					
0-16       10YR 3/2       100       StL	(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         "Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         "Type: C=Concentration, D=Depletion, RM=Reduced Matrix (S5)	0-16	10YR 3/2	100				SiL			
Type: C-Concentration, D-Depletion, RM-Reduced Matrix CS=Covered or Coated Sand Grains.         Type: C-Concentration, D-Depletion, RM-Reduced Matrix CS=Covered or Coated Sand Grains.         Histosol (A1)										
"Type: C-Concentration, D-Depletion, RM-Reduced Matrix CS=Covered or Coated Sand Grains.         "Location, PL-Poet Lining, M-Matrix.         "Hydic Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Problematic Hydric Soils":         Histic Epipedon (A2)       Stury Redux (S5)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)         Depleted Boy Matrix (F2)       Other (Esplain in Remarks)         Depleted Matrix (F3)       Depleted Matrix (F3)         Sandy Redux Matrix (F3)       Redux Dark Surface (F6)         Sandy Micky Mineral (F1)       Depleted Matrix (F3)         Sandy Key Matrix (S4)       Redox Depressions (F8)         Poptin (inche):       Hydric Soil         Type:       Hydric Soil         Probeinatic.       Secondary Indicators (2 or more required)         Surface Water (A1)       _X A, and 4B)         Surface Water (A1)       _Aquate Invertebrates (B1)       _Drainage Patterns (B10)         Water Matrix (B1)       Aquate Invertebrates (B1)       _Drainage Patterns (B10)         Water Matrix (B2)       _Aguate Inveretbrates (B13)       _Saluration Visicia on Ar										
"Type: C=Concentration, D=Depietion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosi (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histosi (A1)       Loarny Mucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       *         Sandy Kicke (A12)       Redox Dark Surface (F6)       *         Sandy Gieged Matrix (S4)       Redox Depressions (F8)       *         Phpf (inches):       Type:       Hydric Soil       *         Type:       Hydric Soil       *       *       *         Primary Indicators (F12)       Secondary Indicators (2 or more required)       *       *         Surface Matrix (B1)	<u> </u>		·							
'Type: C=Concentration, D=Depietion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Leadtor: Pt=Pore Lining, M=Matrix.         Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Problematic Hydric Soils':         Histoc Dipodon (A2)       Stripped Matrix (S6)										
Type:       Concontration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         *Location:       PL=Pore Lining, M=Matrix.         *Hore Soll Indicators (Applicable to all LRRs, unless otherwise noted):       Indicators for Problematic Hydric Solls?:         Histosol (A1)       Sandy Redox (S5)										
Type:       C-Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Location:       PL=Pore Lining, M=Matrix.         Hydric Soil Indicators (Applicable to all LRs, unless otherwise noted):       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histos (A1)       Sandy Redx (S5)       2 cm Muck (A10)         Histos (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Biack Histic (A3)       Leamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)       Indicators (Appdrophylic vegetation and wetlan Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Pale Natriace (F6)       Indicators (Maydrophylic vegetation and wetlan Surface (F7)         Sandy Mucky Mineral (S1)       Depleted Pale Natriace (F6)       Indicators (Car more required)         Restrictive Layer (If present):       Type:       Hydric Soil         Type:       Type:       No         Biack Matrix (S1)       Satrage (F1)       Secondary Indicators (Car more required)         Surface Water (A1)       1.2.4A, and 4B)       Satrage Pale Matrix (B1)       Dranages Patterns (B10)         Surface Water (A1)       Aquatic Inverterbrates (B1)       Dranagesentures (B10)       Dranagesentures					·	·				
Type: C-Concentration., D=Uspletion, KM-Reduced Matrix CS=Covered or Coated Sand Grans.         Virge: C-Concentration., D=Uspletion, KM-Reduced Matrix (S)         Histic Epipedin (A2)       Sandy Redix (S5)	1				·	·	. <u></u>			
Hydric Soil Indicators (A2)       Sandy Redox (S5)      2 cm Muck (A10)         Histic Epipedon (A2)       Stripped Matrix (S6)      2 cm Muck (A10)         Black Histic (A3)	<sup>2</sup> Location: PL=Pore	ration, D=Depletion e Lining, M=Matri	on, RM=Reduc x.	ed Matrix CS=Co	/ered or Coated Sand Grains.					
Histosol (A1)	Hydric Soil Indicat	tors (Applicable	to all LRRs, ι	unless otherwise	noted):	Indicators for	Problematic Hydric S	oils <sup>3</sup> :		
Instance (if i)	Histosol (A1)			Sandy Redox	(\$5)	2 cm Muck	(A10)			
Image protection (FI)	Histic Enipedor	n (A2)	-	Stripped Matrix	(S6)	Red Paren	t Material (TE2)			
Hydrogen Sulfide (A4)       Loamy (Rivy (Matrix (F2))       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky (Mineral (S1)       Depleted Dark Surface (F7)       "Indicators of hydrophytic vegetation and wetlat hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil         Type:       Pepleted Matrix (S4)       Redox Depressions (F8)         Pepletin (inches):       Type:       No         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Surface Water (A1)       Saturation (A3)       Satur Crust (B11)       Drainage Patterns (B10)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Surface Water (B4)       Presence of Reduced Iron (C4)       Saturation Visible on Aerial Imagery (C9)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Saturation (D3)         Surface Water Present?       Yes       No       Reserv (D4)         Sturation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Saturation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)<	Black Histic (A3)			Loamy Mucky	Mineral (F1) (except MI RA 1)	Verv Shall	ow Dark Surface (TF12	')		
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redxx Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Problematic.       Problematic.         Restrictive Layer (If present):       Type:         Type:       Pepteled Dark Surface (F7)         Pepth (inches):       Present?         Yes       No         Remarks:       Present?         HYDROLOGY       Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Surface Sill (B4)       Presence of Reduced Iron (C4)         Salaw Ator Crust (B4)       Presence of Reduced Iron (C4)         Salaw Ator Crust (B8)       Sturation (B2)         Field Observature Test (B5)       Sturator (B3)         Surface Sill (Cracks (B6)       Sturtator Stressed Pl	Hydrogen Sulfide (A4)			Loamy Gleved	Matrix (F2)	Other (Exp	plain in Remarks)	,		
Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Restrictive Layer (If present):       Type:         Type:       Hydric Soil         Persent?       Yes No         Remarks:       Hydric Soil         Present?       Yes No         Remarks:       Secondary Indicators (2 or more required)         Surface Water (A11)	Depleted Belov	w Dark Surface (A	- 	Depleted Matri	x (F3)		,			
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Tradicators of hydrophytic vegetation and wetlat hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil         Depth (inches):       Hydric Soil       Present?       Yes       No         Remarks:       Hydrology Indicators:       Secondary Indicators (2 or more required)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       4A, and 4B)       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Shallow Aquitard (D3)         I ron Deposits (B5)       Recent Iron Reduction in Tilled Solis (C6)       FAC-Neutral Test (D5)       Saturation (Vagota Surface B8)         Field Observations:       Surface Soli Cracks (B6)       Sutined or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Sparsely Vegetated Concave Surface (B8)       Suturation Remarks)       Frest-Heave Hummocks (D7)       Sparsely Vegetated Concave Surface (B8) <td>Thick Dark Sur</td> <td>face (A12)</td> <td></td> <td>Redox Dark Si</td> <td>urface (F6)</td> <td></td> <td colspan="4"></td>	Thick Dark Sur	face (A12)		Redox Dark Si	urface (F6)					
Sandy Gleyed Matrix (S4)	Sandy Mucky N	Vineral (S1)	-	Depleted Dark	Surface (F7)	<sup>3</sup> Indicators of h	hydrophytic vegetation a	and wetland		
Restrictive Layer (if present): Type:       Hydric Soil         Depth (inches):       Hydric Soil         Remarks:       Present?       Yes       No         Remarks:       Secondary Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Saturation (A3)       Sati Crust (B11)       Drainage Patterns (B10)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Scediment Deposits (B2)       Hydrigen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Oridized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Shallow Aquitard (D3)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Surface Notersent?       Yes       No       X       Depth (inches):       >16"         Surface Water Present?       Yes       No       X	Sandy Gleyed Matrix (S4)			Redox Depres	sions (F8)	problematic.	a be present, unless dis	luibed of		
Type:       Hydric Soil         Depth (inches):	Restrictive Laver (	(if present):								
Depth (inches):       Yes       No         Remarks:       Present?       Yes       No         HYDROLOGY         Wetland Hydrology Indicators:       Secondary Indicators (2 or more required)         Sufface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         High Water Table (A2)       1, 2, 4A, and 4B)       Drainage Patterns (B10)         Saturation (A3)       Saturation (A3)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Dirft Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Stented or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Surface Soil Cracks (B6)       Stuned or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LR A)         Sharasel Vegetated Concave Surface (B8)       Depth (inches): _>16"       Hydrology Yes	Type:					Hydric Soil				
Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required: check all that apply)         Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Sati Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxifized Rhizospheres along Living Roots (C3)         Geomorphic Position (D2)         Adjal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Solis (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Field Observations:       Surface Rate         Surface Water Present?       Yes         No       X       Depth (inches): >16"         Mater Table Present?       Yes       No         Saturation Present?       Yes       No         Saturation Present?	Depth (inches):					Present?	Yes	No X		
Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Saturation (A3)       Sait Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Saturation Present?       Yes       No         Water Table Present?       Yes       No       X       Depth (inches):	-									
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (nimimum of one required; check all that apply)       Secondary Indicators (2 or more required)										
Wetand Pydrology indicators:       Surface Water Of your of the end of										
Finited vindeados (infinited of one required, check an inter apply)       Secondary indicados (2 of more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4, and 4B)         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Saturation Present?       Yes       No         Surface Water Present?       Yes       No       X       Depth (inches):       >16"         Water Table Present?       Yes       No       X		minimum of one	required, aboa	k all that apply)		Secondary Ind	iaatara (2 ar mara ragu	ired)		
Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Sait Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Saturation Present?       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >16"         Hydrology       Yes       No       X       Depth (inches):       >16"       Hydrology       Yes       No         Saturation Present?	Primary Indicators (		required; chec	<u>k ali that apply)</u>		Secondary Ind	icators (2 or more requ	<u>irea)</u>		
High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)      Salt Crust (B11)      Drainage Patterns (B10)         Water Marks (B1)      Aquatic Invertebrates (B13)      Dry-Season Water Table (C2)         Sediment Deposits (B2)      Hydrogen Sulfide Odor (C1)      Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)      OXidzed Rhizospheres along Living Roots (C3)      Geomorphic Position (D2)         Algal Mat or Crust (B4)      Presence of Reduced Iron (C4)      Shallow Aquitard (D3)        Iron Deposits (B5)      Recent Iron Reduction in Tilled Soils (C6)      FAC-Neutral Test (D5)	Surface Water	(A1)	-	Water-Stained	Leaves (B9) (except MLRA	Water-Stai	Water-Stained Leaves (B9) (MLRA 1, 2,			
Saturation (A3)	High Water Tal	ble (A2)		1, 2, 4A, and	14B)	4A, and	4A, and 4B)			
Water Marks (B1)       Aquatic invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Sturface Water Present?       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >16"         Water Table Present?       Yes       No       X       Depth (inches):       >16"         Saturation Present?       Yes       No       X       Depth (inches):       >16"         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Present?       No	Saturation (A3)	) 21)	-	Salt Crust (B1	l)	Drainage F	Drainage Patterns (B10)			
Sediment Deposits (B2)		51) a sita (D2)	-	Aquatic Inverte	prates (B13)	Dry-Seaso	Dry-Season Water Table (C2)			
Drift Deposits (B3)	Sediment Depo		-	Hydrogen Sull	ae Odor (CT)	Saturation	Saturation Visible on Aerial Imagery (C9)			
Algar Marton Crust (B4)	Dhit Deposits (	(D3)	-	OXIUIZED KIIIZO	aduced Iron (C4)	S)Geoliforph	1000000000000000000000000000000000000			
Initial Deposits (D3)       Intercent non-reduction in Finled Solis (C0)       Intervedual Fest (D3)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Ves		B5)	-	Presence of Re	eduction in Tilled Soils (C6)	EAC Neutr	ral Test (D5)			
	Surface Soil Cr	racks (B6)	-	Stunted or Stre	essed Plants (D1) (I RR A)	Raised An	t Mounds (D6) (LRR A)			
	Inundation Visi	ble on Aerial Ima	aery (B7)	Other (Explain	in Remarks)	Frost-Heav	ve Hummocks (D7)			
Field Observations:       No       X       Depth (inches):       Wetland         Surface Water Present?       Yes       No       X       Depth (inches):       >16"       Hydrology       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >16"       Hydrology       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >16"       Present?         Includes capillary fringe)       No       X       Depth (inches):       >16"       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Describe       Describe	Sparsely Veget	tated Concave Si	urface (B8)		in Kenaks)					
Surface Water Present?       Yes       No       X       Depth (inches):       >16"       Wetland         Water Table Present?       Yes       No       X       Depth (inches):       >16"       Hydrology       Yes       No	Field Observation	s'								
Water Table Present?       Yes       No       X       Depth (inclus):       >16"       Hydrology       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >16"       Hydrology       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >16"       Present?         Includes capillary fringe)       Pescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Percenter	Surface Water Pre	sent? Yes		No X	Denth (inches) <sup>.</sup>	Wetland				
Saturation Present?       Yes       No       X       Depth (inches):       >16"       Present?         Violation Present?       Yes       No       X       Depth (inches):       >16"       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Present?       Present?	Water Table Prese	ent? Yes			Depth (inches): >16"	Hydrology		No X		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present	? Yes	·		Depth (inches): >16"	Present?				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	(includes capillary	fringe)				•				
Describe recorded Data (stream gauge, monitoring weil, aenai photos, previous inspections), il available.	Describe Records	od Data (stroam	aguao monit	oring woll aorial	nhotos provious inspactions	, if available:				
Demonstration	Describe Recorde	eu Dala (Sirealli	yauge, monto	Jing wen, aenai	photos, previous inspections,	, il avallable.				
Remarks:	Remarks:									

Project/Site: Oregon Street Business Park		City/County: Sherwood / Washington Sampling Date: 3/8/2021				
Applicant/Owner: Oregon Street Business Park, L	LC			State: OR	Sampling Point	:: <b>4</b>
Investigator(s): Stacey Reed, PWS and Sonya Ter	npleton	Section,	Township, Rang	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslope, terrace, etc.): Toeslope			Local relief (co	oncave, convex, none):	Concave Slop	e (%): <3%
Subregion (LRR): A. Northwest Forests and Coast	t Lat	: 45.361013	Lor	ng: <u>-122.823162</u>	Datum:	
Soil Map Unit Name: Briedwell stony silt lo	am, (Unit 5B), 0% te	o 7% slopes; Noi	n-hydric	NWI c	lassification:	None
Are climatic / hydrologic conditions on the site typic	al for this time of ye	ar?	Ye	es X No	(If no, explain in	Remarks)
Are Vegetation , Soil ,	or Hydrology	significantly dis	sturbed? Ai	re "Normal Circumstance	s" present? Ye	s X No
Are Vegetation, Soil,	or Hydrology	naturally proble	ematic? (If	needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach site	e map showing	sampling po	oint location	s, transects, impor	tant features, et	с.
Hydrophytic Vegetation Present? Y	es <u>X</u> No	o				
Hydric Soil Present? Y	es <u>X</u> No	o	Is the Sample			
Wetland Hydrology Present? Y	es <u>X</u> No	o	within a wet	land? Yes )	(No	_
Precipitation: According to the NWS Hillsboro weather station, 0. Remarks:	01 inches of rainfall	was received on	n the day of and	1.02 inches within the two	o weeks prior.	
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot Size: 30' r or )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1.				That Are OBL, FACW	/, or FAC: 2	(A)
2.						
5. 	·			Total Number of Dom	inant	
4.	·			Species Across All St	rata: <u>2</u>	(B)
	<u>    0%    </u> = To	tal Cover			o .	
Sapling/Shrub Stratum (Plot Size: 10'r or )				Percent of Dominant		
2	······			That Are OBL, FACW	7, or FAC: <u>100</u>	<u>70</u> (A/B)
3	·			Total % Cover of	f <sup>.</sup> Multiply by	
					• • • • • • • • • • • • • • • • • • •	
5	······			FACW species	$x^{2} = \frac{1}{x^{2}}$	
	= To	tal Cover		FAC species	$\frac{5}{5} \times 3 =$	255
Herb Stratum (Plot Size: 5' r or )				FACU species	$x_{4} = \frac{x_{4}}{x_{4}}$	8
1. Alopecurus pratensis	50%	Yes	FAC	UPL species		
2. Ranunculus repens	30%	Yes	FAC	Column Totals: 8	7 (A)	(B)
3. Rumex crispus	.3%	<u> </u>	FAC	Prevalence Index	<u> </u>	3.02
4. Trifolium repens	2%	No	FAC	Hydrophytic Vegeta	tion Indicators:	
5. Plantago lanceolata	2%	No	FACU	1 - Rapid Test for	Hydrophytic Vegetati	ion
6.				X 2 - Dominance Te	est is >50%	
7.				3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8.				4 - Morphological	Adaptations <sup>1</sup> (Provid	e supporting
9.				data in Remar	ks or on a separate sl	heet)
10.				5 - Wetland Non-	Vascular Plants <sup>1</sup>	
11.				Problematic Hydr	ophytic Vegetation (E	xplain) <sup>1</sup>
Woody Vine Stratum (Plot Size: 10' r or)	87% = To	tal Cover		<sup>1</sup> Indicators of hydric s be present.	oil and wetland hydro	logy must
1.				Hydrophytic		
£		tal Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum 13%				Present?	<u> </u>	
Remarks:						

SOIL							Sampling Point:	4		
Profile Descripti	ion (Describe t	o the depth ne	eded to document t	he indicator or c	onfirm the abs	ence of indicators	s):			
Depth	N	latrix		Redox F	eatures					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-10	10YR 3/2	95	7.5YR 4/4	5	С	М	SiL			
10-16	10YR 4/1	95	7.5YR 4/4	5	С	М	SiCL			
<sup>1</sup> Type: C=Concer	ntration, D=Dep	letion, RM=Red	luced Matrix CS=Cov	ered or Coated Sa	and Grains.					
<sup>2</sup> Location: PL=Pc	ore Lining, M=M	atrix.								
Hydric Soil Indic	ators (Applica	ble to all LRRs	, unless otherwise r	noted):		Indicators for	Problematic Hydric S	oils <sup>3</sup> :		
Histosol (A1)	1		Sandy Redox (	S5)		2 cm Muck	: (A10)			
Histic Epiped	lon (A2)		Stripped Matrix	: (S6)		Red Paren	t Material (TF2)			
Black Histic (	(A3)		Loamy Mucky I	Vineral (F1) (exce	pt MLRA 1)	Very Shall	ow Dark Surface (TF12	)		
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) O							lain in Remarks)			
Depleted Belo	ow Dark Surfac	e (A11)	X Depleted Matrix	x (F3)						
Thick Dark S	urface (A12)		X Redox Dark Su	ırface (F6)		<sup>3</sup> Indicators of h	wdronbytic vegetation a	und wetland		
Sandy Mucky	y Mineral (S1)		Depleted Dark	Surface (F7)		hydrology must be present, unless disturbed or				
Sandy Gleye	d Matrix (S4)		Redox Depress	sions (F8)		problematic.				
Restrictive Laye	r (if present):									
Туре:						Hydric Soil				
Depth (inches): Pr						Present?	Yes X	No		
Demeniker										
Remarks.										
HYDROLOGY	(									
Wetland Hydrolo	ogy Indicators:									
Primary Indicators	s (minimum of c	one required; ch	eck all that apply)	_		Secondary Ind	icators (2 or more requi	<u>red)</u>		
Surface Wate	er (A1)		Water-Stained	Leaves (B9) (exce	ept MLRA	Water-Stai	ned Leaves (B9) (MLR/	A 1, 2,		
X High Water T	able (A2)		1, 2, 4A, and	l 4B)		4A, and	4B)			
X Saturation (A	.3)		Salt Crust (B11	)		Drainage F	Patterns (B10)			
Water Marks	(B1)		Aquatic Inverte	brates (B13)		Dry-Seaso	n Water Table (C2)			
Sediment De	posits (B2)		Hydrogen Sulfi	de Odor (C1)		Saturation	Visible on Aerial Image	ry (C9)		
Drift Deposits	s (B3)		Oxidized Rhizo	spheres along Liv	ing Roots (C3)	Geomorph	ic Position (D2)			
Algal Mat or (	Crust (B4)		Presence of Re	educed Iron (C4)		Shallow Ac	quitard (D3)			
Iron Deposits	s (B5)		Recent Iron Re	duction in Tilled S	oils (C6)	FAC-Neutr	al Test (D5)			
Surface Soil	Cracks (B6)		Stunted or Stre	ssed Plants (D1)	(LRR A)	Raised Ant	t Mounds (D6) (LRR A)			
Inundation Vi	isible on Aerial	lmagery (B7)	Other (Explain	in Remarks)		Frost-Heav	ve Hummocks (D7)			
Sparsely Veg	getated Concave	e Surface (B8)								
Field Observatio	ons:									
Surface Water Pr	resent?	Yes	No X	Depth (inches)	:	Wetland				
Water Table Pres	sent?	Yes X	No	Depth (inches)	· <u> </u>	Hydrology	v Yes X	No		
Saturation Prese	nt?	Yes X	No	Depth (inches)	: Surface	Present?				
(includes capillar	y fringe)	<u> </u>		Doput (monoc)		110001111				
Describe Record	ded Data (strea	am gauge, mor	nitoring well, aerial p	photos, previous	inspections), i	f available:				
Remarks:	ovimatoly 20:	nuton Lludrol		no hilloido onriga						
r it ieit open appro	oninately 30 MI	nates. Hydrolog	ly supported by upsio	pe miside spring.						

Project/Site: Oregon Street Business Pa	rk	City/County: Sherwood / Washington Sampling Date: 3/8/2021				
Applicant/Owner: Oregon Street Business	Park, LLC			State: OR	Sampling Po	int: <b>5</b>
Investigator(s): Stacey Reed, PWS and So	nya Templeton	Section,	, Township, Rang	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslope, terrace, etc.): Toeslo	ре		Local relief (c	oncave, convex, none):	Convex SI	ope (%): <3%
Subregion (LRR): A. Northwest Forests and	d Coast L	at: 45.361064	Lor	ng: -122.823162	Datum:	
Soil Map Unit Name: Briedwell ston	y silt loam, (Unit 5B), 0%	to 7% slopes; No	on-hydric	NWI c	lassification:	None
Are climatic / hydrologic conditions on the si	te typical for this time of	year?	Y	es <u>X</u> No	(If no, explain	in Remarks)
Are Vegetation, Soil	, or Hydrology	significantly di	isturbed? A	re "Normal Circumstance	es" present? Y	'es X No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (l	f needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attac	ch site map showin	ng sampling p	oint location	is, transects, impo	rtant features, o	etc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Sampl	led Area		
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	land? Yes	<u> </u>	
Precipitation: According to the NWS Hillsboro weather sta Remarks:	tion, 0.01 inches of rainfa	all was received o	n the day of and	1.02 inches within the tw	o weeks prior.	
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
	<u>% Cover</u>	<u>Species</u> ?	Status		Species	<b>2</b> (A)
2	15%	Yes	FACU	That Are OBL, FACW	/, or FAC:	<u>3</u> (A)
3			<u> </u>	TatalNingham		
4			<u> </u>	Total Number of Dom	linant	
··		Tatal Queen	<u> </u>	Species Across All St		<u>4</u> (B)
Sanling/Shrub Stratum (Plot Size: 10' r.or	15% =	lotal Cover		Boroopt of Dominant	Spacias	
1	<u>)</u>					75% (A/D)
2			<u> </u>	That Are OBL, FACW	7, or FAC: <u>4</u>	<u>576</u> (A/B)
3			<u> </u>	Total % Cover of	f <sup>.</sup> Multiply by:	
			<u> </u>		<u> </u>	
4			<u> </u>	EACW species	x2=	
J			<u> </u>	FAC species	<u> </u>	
Herb Stratum (Plot Size: 5' r or )	=	Total Cover		FACU species 9	<u>3 ×3 -</u>	
	400/	N	<b>F</b> A O*		<u> </u>	
1. Poa species	40%	Yes	FAC"	Column Totolo:	<u> </u>	(P)
2. Alopecurus pratensis	30%	Yes	FAC	Brovoloneo Indo	$\frac{13}{13}$ (A)	319 (B)
Agrostis species		res	FAC			<u>5.10</u>
Plantago lanceolata	5%	No	FACU	1 Papid Test for	Hydrophytic Veget	ation
5. Taraxacum omcinale	5%	No	FACU	X 2 Dominance T	nyuropnyue vegeu	3001
	3%	INO	FAC		-5113 - 5070	
۰ ٥			<u> </u>	3 - Prevalence in	dex is ≤3.0	iala avvenantinan
o			<u> </u>	4 - Morphological	ks or on a separate	sheet)
5 10			<u> </u>		KS OF OFF a Separate	sheet)
11			<u> </u>	5 - Wetland Non-	vascular Plants	(Evoloin) <sup>1</sup>
···.		Tat - 1 O	<u> </u>	<sup>1</sup> Indicators of hydric 1	oprivite vegetation	
<u>Woody Vine Stratum (Plot Size: 10' r or</u>		l otal Cover		be present.	ion and wetland hyd	rology must
2.				Hydrophytic		
% Bare Ground in Herb Stratum0%	6 0% =	Total Cover		Vegetation Present?	Yes X No	
Remarks:						
*Assumed FAC.						

SOIL							Sampling Point:	5	
Profile Descrip	otion (Describe to	the depth nee	eded to document t	he indicator or	confirm the abse	ence of indicator	s):		
Depth	Mat	rix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-9	10YR 3/2	95	7.5YR 4/6	5	С	М	SiL		
9-16	10YR 4/1	90	7.5YR 4/6	10	С	M	SiCL		
			<u></u>						
	·								
<sup>1</sup> Type: C=Conce <sup>2</sup> Location: PL=F	entration, D=Deplet Pore Lining, M=Mat	ion, RM=Redu rix.	uced Matrix CS=Cov	ered or Coated S	Sand Grains.				
Hydric Soil Indi	icators (Applicable	e to all LRRs,	unless otherwise i	noted):		Indicators for	Problematic Hydric So	oils <sup>3</sup> :	
Histosol (A1	1)		Sandy Redox (	S5)		2 cm Mucł	< (A10)		
Histic Epipe	edon (A2)		Stripped Matrix	(S6)		Red Parer	nt Material (TF2)		
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1)							ow Dark Surface (TF12)		
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Othe							plain in Remarks)		
Depleted Be	elow Dark Surface (	(A11)	X Depleted Matrix	x (F3)					
Thick Dark	Surface (A12)		X Redox Dark Su	ırface (F6)		3			
Sandy Mucl	ky Mineral (S1)		Depleted Dark	Surface (F7)		hvdrology mus	it be present, unless dist	rurbed or	
Sandy Gley	ed Matrix (S4)		Redox Depress	sions (F8)		problematic.	···· [·····, ····· ···		
Restrictive Lay	er (if present):								
Тур	be:					Hydric Soil			
Depth (inches): Pre:						Present?	Yes X	No	
		-							
Redox appears	relict								
Redux appears	renot.								
HYDROLOG	iΥ								
Wetland Hydro	logy Indicators:								
Primary Indicato	ors (minimum of one	e required; che	ck all that apply)			Secondary Ind	licators (2 or more requi	red)	
Surface Wa	iter (A1)		Water-Stained	Leaves (B9) (exc	cept MLRA	Water-Stai	ined Leaves (B9) (MLRA	A 1, 2,	
High Water	Table (A2)		1, 2, 4A, and	I 4B)		4A, and 4B)			
Saturation (	A3)		Salt Crust (B11	)		Drainage I	Patterns (B10)		
Water Mark	s (B1)		Aquatic Inverte	brates (B13)		Dry-Seaso	on Water Table (C2)		
Sediment D	eposits (B2)		Hydrogen Sulfi	de Odor (C1)		Saturation	Visible on Aerial Image	ry (C9)	
Drift Deposi	its (B3)		Oxidized Rhizo	spheres along L	iving Roots (C3)	Geomorph	ic Position (D2)		
Algal Mat or	r Crust (B4)		Presence of Re	educed Iron (C4)		Shallow A	quitard (D3)		
Iron Deposi	ts (B5)		Recent Iron Re	duction in Tilled	Soils (C6)	FAC-Neut	ral Test (D5)		
Surface Soi	l Cracks (B6)		Stunted or Stre	ssed Plants (D1)	) (LRR A)	Raised An	t Mounds (D6) (LRR A)		
Inundation	Visible on Aerial Im	agery (B7)	Other (Explain	in Remarks)		Frost-Heav	ve Hummocks (D7)		
Sparsely Ve	egetated Concave S	Surface (B8)	_						
Field Observati	ions:								
Surface Water	Present? Ye	s	No X	Depth (inche	s) <sup>.</sup>	Wetland			
Water Table Pro	esent? Ye	s		Depth (inche	s): >16"	Hydrology	v Yes	No X	
Saturation Pres	ent? Ye	s		Depth (inche	s): >16"	Present?	y 103		
(includes capilla	ary fringe)			Boptin (mono.	oy	110001111			
Describe Reco	orded Data (stream	gauge, mon	toring well, aerial p	photos, previou	s inspections), if	available:			
Remarks: Plot left open on	provimately 1 hour	Soile dry thro	uahout. No free wat	er or saturation of	bserved within a	Irface 12-inches d	luring a February 16, 20	21 initial site visit	
either. Does not	meet problematic \	vetland hydrol	ogy indicators.						
		-							

Project/Site: Oregon S	treet Business Park		y: Sherwood / W	Vashington	Sampling Date:	3/8/2021	
Applicant/Owner: Orego	n Street Business Park, L	LC			State: OR	Sampling Poir	nt: <u>6</u>
Investigator(s): Stacey Re	eed, PWS and Sonya Ter	mpleton	Section,	Township, Ran	ge: <u>Sec. 28, T.2S., R.1W.</u>	, W.M.	
Landform (hillslope, terrac	e, etc.): <u>Toeslope</u>			Local relief (c	oncave, convex, none):	Convex Slo	pe (%): <3%
Subregion (LRR): A. Nort	thwest Forests and Coas	t L	at: 45.361060	Lo	ng: -122.823370	Datum:	
Soil Map Unit Name:	Briedwell stony silt lo	am, (Unit 5B), 0%	to 7% slopes; No	n-hydric	NWI cl	assification:	None
Are climatic / hydrologic co	onditions on the site typic	al for this time of	year?	Y	es <u>X</u> No	(If no, explain i	n Remarks)
Are Vegetation	, Soil,	or Hydrology	significantly di	sturbed? A	Are "Normal Circumstance	s" present? Ye	∋s <u>X</u> No
Are Vegetation	, Soil,	or Hydrology	naturally probl	ematic? (I	If needed, explain any ans	wers in Remarks.)	
SUMMARY OF FIND	INGS – Attach site	e map showir	ng sampling p	oint location	ns, transects, impor	tant features, e	tc.
Hydrophytic Vegetation P	resent? Y	es X	No				
Hydric Soil Present?	Y	es X	No	is the Samp	led Area		
Wetland Hydrology Prese	nt? Y	es	No X	within a Wet	tland? Yes	<u> </u>	_
Precipitation: According to the NWS Hill Remarks:	sboro weather station, 0.	01 inches of rainf	all was received or	n the day of and	1.02 inches within the two	o weeks prior.	
VEGETATION							
		Absolute	Dominant	Indicator	Dominance Test wor	rksheet:	
Tree Stratum (Plot Size: 3	<u>30'ror)</u>	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1.					That Are OBL, FACW	, or FAC:	3 (A)
2.							
3.					Total Number of Dom	inant	
4.					Species Across All St	rata:	3(B)
		0% =	Total Cover				
Sapling/Shrub Stratum (P	lot Size: 10' r or )	<u>.</u>			Percent of Dominant	Species	
1.					That Are OBL, FACW	, or FAC: <u>10</u>	<u>0%</u> (A/B)
2.					Prevalence Index wo	orksheet:	
3.					Total % Cover of	<u>Multiply by:</u>	
4.					OBL species 0	x 1 =	0
5.					FACW species 0	x 2 =	0
		=	Total Cover		FAC species 94	4 x 3 =	282
Herb Stratum (Plot Size:	<u>5'ror)</u>				FACU species 4	x 4 =	16
1. Poa species		40%	Yes	FAC*	UPL species 2	x 5 =	10
2. Alopecurus pratensis		30%	Yes	FAC	Column Totals: 10	0 (A)	308 (B)
3. Agrostis species		20%	Yes	FAC*	Prevalence Index	= B/A =	3.08
4. Geranium molle		2%	No	NOL	Hydrophytic Vegetat	ion Indicators:	
5. Plantago lanceolata		2%	No	FACU	1 - Rapid Test for	Hydrophytic Vegeta	tion
6. Trifolium repens		2%	No	FAC	X 2 - Dominance Te	st is >50%	
Rumex crispus		2%	No	FAC	3 - Prevalence Inc	dex is ≤3.0 <sup>1</sup>	
8. Prunella vulgaris		2%	No	FACU	4 - Morphological	Adaptations <sup>1</sup> (Provi	de supporting
9.					data in Remar	ks or on a separate s	sheet)
10					5 - Wetland Non-	/ascular Plants '	1
11					Problematic Hydro	ophytic Vegetation (I	Explain)'
Woody Vine Stratum (Plot	<u>Size: 10' r or)</u>	100% =	Total Cover		<sup>1</sup> Indicators of hydric so be present.	oil and wetland hydr	ology must
2.					Hydrophytic		
		0% =	Total Cover		Vegetation	Yes X No	
% Bare Ground in Herb St	ratum <u>0%</u>				Present?		
Remarks:							
Assumed FAC.							

	SOIL					Sampling Point: 6		
Profile Description (De	escribe to the depth ne	eded to document th	ne indicator or confirm th	ne absence of indicator	s):			
Depth	Matrix		Redox Features					
(inches) Color	r (moist) %	Color (moist)	% Туре	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks		
0-8 10\	/R 3/2 95	7.5YR 4/6	5 C	М	SiL			
8-16 10\	YR 4/1 98	7.5YR 4/6	2 C	М	SiCL			
<sup>1</sup> Type: C=Concentration	, D=Depletion, RM=Red	duced Matrix CS=Cove	ered or Coated Sand Grair	ıs.				
<sup>2</sup> Location: PL=Pore Linir	ng, M=Matrix.							
Hydric Soil Indicators (	Applicable to all LRRs	s, unless otherwise n	oted):	Indicators for	Problematic Hydric Soil	s <sup>3</sup> :		
Histosol (A1)		Sandy Redox (S5)		2 cm Muc	2 cm Muck (A10)			
Histic Epipedon (A2)		Stripped Matrix	(S6)	Red Parer	Red Parent Material (TF2)			
Black Histic (A3)		Loamy Mucky N	(ineral (F1) (except MLRA	1) Very Shall	Very Shallow Dark Surface (TF12)			
Hydrogen Sulfide (A	4)	Loamy Gleyed N	Matrix (F2)	Other (Ex	Other (Explain in Remarks)			
Depleted Below Dar	k Surface (A11)	X Depleted Matrix	(F3)		,			
Thick Dark Surface (	(A12)	X Redox Dark Sur	face (F6)	2				
Sandy Mucky Mineral (S1)		Depleted Dark S	Surface (F7)	°Indicators of I	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Sandy Gleyed Matrix (S4)		Redox Depressi	ions (F8)	problematic.				
Restrictive Laver (if pre	sent).							
Type <sup>.</sup>	Sonty.			Hydric Soil				
Denth (inches):				Present?	Present? Yes X No			
	i a ta na c							
wetiand Hydrology ind	icators:							
Primary Indicators (minimum of one required; che		<u>eck all that apply)</u>						
Surface Water (A1)		neck all that apply)	_	Secondary Inc	licators (2 or more required	<u>i)</u>		
High Water Table (A2)		neck all that apply)Water-Stained L	 .eaves (B9) (except MLRA	Secondary Inc	licators (2 or more required ined Leaves (B9) (MLRA 1	<u>1)</u> , 2,		
High Water Table (A	2)	eck all that apply) Water-Stained L 1, 2, 4A, and	_ Leaves (B9) (except MLRA 4B)	Secondary Inc. Water-Sta 4A, and	licators (2 or more required ined Leaves (B9) (MLRA 1 4B)	<u>1)</u> , 2,		
High Water Table (A Saturation (A3)	2)	eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11)	 .eaves (B9) (except MLRA 4B)	Secondary Inc Water-Sta 4A, and Drainage	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10)	<u>1)</u> , 2,		
High Water Table (A Saturation (A3) Water Marks (B1)	2)	eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb	– .eaves (B9) (except MLRA 4B) prates (B13)	Secondary Inc Water-Sta 4A, and Drainage	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2)	<u>1)</u> , 2,		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (	.2) [B2)	eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid	 Leaves (B9) (except MLRA 4B) orates (B13) le Odor (C1)	Secondary Inc Water-Sta 4A, and Drainage Dry-Seaso Saturation	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3)	2) B2)	eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos	 eaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots	Secondary Inc Water-Sta 4A, and Drainage Dry-Seaso Saturation s (C3) Geomorph	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery hic Position (D2)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E	2) B2) 34)	Mater-Stained L Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec	 4B) 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Secondary Inc Water-Sta 4A, and Drainage Dry-Seaso Saturation s (C3) Shallow A	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3)	1 <u>)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	2) [B2) 34)	ecck all that apply)     Water-Stained L         1, 2, 4A, and         Salt Crust (B11)         Aquatic Invertet         Hydrogen Sulfid         Oxidized Rhizos         Presence of Rec         Recent Iron Rec	– eaves (B9) (except MLRA 4B) prates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6)	Secondary Inc Water-Sta 4A, and Drainage Dry-Seaso Saturation s (C3) Geomorph Shallow A FAC-Neut	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks	2) B2) 34) (B6)	eck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Stunted or Stres	– eaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A)	Secondary Inc Water-Sta 4A, and Drainage Dry-Sease Saturation S (C3) Geomorph Shallow A FAC-Neut Raised Ar	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or	.2) B2) 34) (B6) n Aerial Imagery (B7)	eck all that apply)     Water-Stained L         1, 2, 4A, and         Salt Crust (B11)         Aquatic Invertet         Hydrogen Sulfid         Oxidized Rhizos         Presence of Rec         Recent Iron Rec         Stunted or Stres         Other (Explain in	– eaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) n Remarks)	Secondary Inc Water-Sta 4A, and Drainage I Dry-Seasc Saturation S (C3) FAC-Neut Raised Ar Frost-Hea	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated	2) (B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8)	Meck all that apply) Water-Stained L 1, 2, 4A, and Salt Crust (B11) Aquatic Invertet Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Stunted or Stres Other (Explain in	Leaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) n Remarks)	Secondary Inc Water-Sta 4A, and Drainage Dry-Sease Saturation s (C3) FAC-Neut Raised Ar Frost-Hea	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) It Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations:	2) [B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8)	eck all that apply)     Water-Stained L         1, 2, 4A, and         Salt Crust (B11)         Aquatic Invertet         Hydrogen Sulfid         Oxidized Rhizos         Presence of Rec         Recent Iron Rec         Stunted or Stres         Other (Explain in		Secondary Inc Water-Sta 4A, and Drainage Dry-Seaso Saturation Saturation FAC-Neut Raised Ar Frost-Hea	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present?	2) B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8)	<u>No X</u> Water-Stained L      1, 2, 4A, and      Salt Crust (B11)      Aquatic Invertet      Hydrogen Sulfid      Oxidized Rhizos      Presence of Rec      Stunted or Stres      Other (Explain in      No X	Leaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) n Remarks) Depth (inches):	Secondary Inc Water-Sta 4A, and Drainage I Dry-Seaso Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present?	2) B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes Yes	Meter-Stained L     1, 2, 4A, and     Salt Crust (B11)     Aquatic Invertet     Hydrogen Sulfid     Oxidized Rhizos     Presence of Rec     Recent Iron Rec     Stunted or Stres     Other (Explain in     No X	eaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) n Remarks) Depth (inches): >16	Secondary Inc Water-Sta 4A, and Drainage I Dry-Seasc Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present?	2) B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes Yes Yes Yes Yes	<u>     eck all that apply)</u> Water-Stained L      1, 2, 4A, and      Salt Crust (B11)      Aquatic Invertet:     Hydrogen Sulfid      Oxidized Rhizos      Presence of Rec      Recent Iron Rec      Stunted or Stres      Other (Explain in      No X      No X	Leaves (B9) (except MLRA 4B) orates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks) Depth (inches):	Secondary Inc Water-Sta 4A, and Drainage I Dry-Sease Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	2) (B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes Yes Yes Yes ta (stream gauge, mod	<u>     water-Stained L</u> 1, 2, 4A, and     Salt Crust (B11)     Aquatic Invertet     Hydrogen Sulfid     Oxidized Rhizos     Presence of Rec     Recent Iron Rec     Stunted or Stres     Other (Explain in     No X     No X	Leaves (B9) (except MLRA 4B) prates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ased Plants (D1) (LRR A) n Remarks) Depth (inches):	Secondary Inc Water-Sta 4A, and Drainage I Dry-Seasc Saturation Stallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present?	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) It Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Da	2) (B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes Yes Yes Yes ta (stream gauge, more		Leaves (B9) (except MLRA 4B) prates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) n Remarks) Depth (inches):	Secondary Inc Water-Sta 4A, and Drainage I Dry-Seasc Saturation Shallow A FAC-Neut Raised Ar Frost-Hea	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	<u>1)</u> , 2, (C9)		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Da Remarks:	2) (B2) 34) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes Yes Yes ta (stream gauge, mod	Mo X     No X	Leaves (B9) (except MLRA 4B) prates (B13) le Odor (C1) spheres along Living Roots duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) n Remarks) Depth (inches):	Secondary Inc. Water-Sta 4A, and Drainage I Dry-Seaso Saturation Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present?	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) it Mounds (D6) (LRR A) ve Hummocks (D7)	i) , 2, (C9) No <u>X</u>		
High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits ( Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe Describe Recorded Da Remarks: Plot left open approximte	2) B2) B2) B4) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes Yes Yes Yes Yes Yes Yes Yes	<u>     ecck all that apply)</u> Water-Stained L      1, 2, 4A, and      Salt Crust (B11)      Aquatic Invertet:      Hydrogen Sulfid      Oxidized Rhizos      Presence of Rec      Recent Iron Rec      Stunted or Stres      Other (Explain in      No X      No X      No X      Itoring well, aerial pl      ughout. No free water		Secondary Inc Water-Sta 4A, and Drainage I Dry-Sease Saturation Saturation Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present? ons), if available:	licators (2 or more required ined Leaves (B9) (MLRA 1 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7) y Yes 6, 2021 site visit either. Do	1) , 2, (C9) No <u>X</u> es not meet		
Project/Site: 0	)regon Street Business Pa	rk		City/Cou	unty: Sherwood / W	Vashington	Sampling Date:	3/8/2021
--------------------------------------	------------------------------	-------------	----------------	---------------------------------------	---------------------	---------------------------------	-------------------------------	------------------------
Applicant/Owner:	Oregon Street Business	Park, LLC	)			State: OR	Sampling Po	oint: <b>7</b>
Investigator(s): S	tacey Reed, PWS and So	nya Temp	leton	Sectio	on, Township, Ran	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslop	e, terrace, etc.): Toeslo	ре			Local relief (c	oncave, convex, none):	Convex S	slope (%): <3%
Subregion (LRR):	A. Northwest Forests and	d Coast		Lat: 45.36113	33 Lo	ng: -122.823122	Datum:	
Soil Map Unit Nan	ne: Briedwell ston	y silt loan	n, (Unit 5B),	0% to 7% slopes;	Non-hydric	NWI c	assification:	None
Are climatic / hydr	rologic conditions on the si	te typical	for this time	of year?	Y	es X No	(If no, explain	ı in Remarks)
Are Vegetation	, Soil	, or	Hydrology	significantly	disturbed? A	re "Normal Circumstance	s" present?	Yes X No
Are Vegetation	, Soil	, or	Hydrology	naturally pro	oblematic? (I	If needed, explain any ans	wers in Remarks.)	)
SUMMARY O	F FINDINGS – Attac	h site r	nap shov	ving sampling	point location	ns, transects, impor	tant features,	etc.
Hydrophytic Vege	etation Present?	Yes	Х	No				
Hydric Soil Prese	ent?	Yes		No X	Is the Samp	led Area		
Wetland Hydrolog	gy Present?	Yes		No X	within a Wet	tland? Yes	No X	, 1
Precipitation: According to the N	NWS Hillsboro weather sta	tion, 0.01	inches of ra	infall was received	l on the day of and	1.02 inches within the two	o weeks prior.	
Remarks:								
VEGETATION	l							
			Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plo	ot Size: 30' r or)		<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1. Acer macroph	hyllum		30%	Yes	FACU	That Are OBL, FACW	, or FAC:	<u>2</u> (A)
2.								
3.						Total Number of Dom	inant	
4.						Species Across All St	rata:	3 (B)
			30%	= Total Cover				
Sapling/Shrub Str	atum (Plot Size: 10' r or	)				Percent of Dominant	Species	
1. Rosa nutkana	а		20%	Yes	FAC	That Are OBL, FACW	, or FAC:	<u>67%</u> (A/B)
2. Corylus cornu	uta		5%	No	FACU	Prevalence Index we	orksheet:	
3. Rubus armen	niacus		5%	No	FAC	Total % Cover of	: Multiply by:	
4.						OBL species (	x 1 =	0
5.						FACW species (	x 2 =	0
			30%	= Total Cover		FAC species 12	.6 x 3 =	378
Herb Stratum (Plo	ot Size: 5' r or <u>)</u>					FACU species 1	) x 4 =	40
1. Poa species			95%	Yes	FAC*	UPL species (	x 5 =	0
2. Taraxacum o	fficinale		5%	No	FACU	Column Totals: 13	6 (A)	418 (B)
3. Rumex crispu	IS		3%	No	FAC	Prevalence Index	= B/A =	3.07
4. Ranunculus r	repens		3%	No	FAC	Hydrophytic Vegeta	tion Indicators:	
5.	•			· · · · · · · · · · · · · · · · · · ·		1 - Rapid Test for	Hydrophytic Vege	tation
6.				· · · · · · · · · · · · · · · · · · ·		X 2 - Dominance Te	est is >50%	
7.						3 - Prevalence In	dex is ≤3 0 <sup>1</sup>	
8						4 - Morphological	Adaptations <sup>1</sup> (Pro	vide supporting
9						data in Remar	ks or on a senarat	e sheet)
10						5 Watland Non	Vaccular Planta <sup>1</sup>	s encory
11						Broblematic Hydr		(Evoloin) <sup>1</sup>
			4000/					
Woody Vine Strat	um (Plot Size: 10' r er	`	106%	= Iotal Cover		indicators of hydric s	on and wetland hyd	arology must
1		)_				be present.		
2.						Hydrophytic		
			0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground in	Herb Stratum0%	0				Present?		
_			-					
Remarks:								

SOIL							Sampling Point:	7
Profile Descript	tion (Describe to th	ne depth need	ded to document	the indicator or	confirm the abse	ence of indicators	):	
Depth	Matrix	x		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/2	100					SiL	
10-16	10YR 3/2	97	7.5YR 4/4	3	С	Μ	SiL	
				n				
					<u> </u>	. <u> </u>		
					<u> </u>	. <u> </u>		
					<u> </u>	. <u> </u>		
<sup>1</sup> Type: C=Conce	ntration, D=Depletic	on, RM=Reduc	ced Matrix CS=Co	vered or Coated	Sand Grains.			
<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix	κ.						
Hydric Soil Indic	cators (Applicable	to all LRRs, ι	unless otherwise	noted):		Indicators for I	Problematic Hydric S	Soils <sup>3</sup> :
Histosol (A1)	)	-	Sandy Redox	(S5)		2 cm Muck	(A10)	
Histic Epiped	don (A2)	-	Stripped Matri	x (S6)		Red Parent	Material (TF2)	
Black Histic (	(A3)	-	Loamy Mucky	Mineral (F1) (ex	cept MLRA 1)	Very Shallo	w Dark Surface (TF12	2)
Hydrogen Su	ulfide (A4)	-	Loamy Gleyed	Matrix (F2)		Other (Expl	ain in Remarks)	
Depleted Bel	low Dark Surface (A	.11)	Depleted Matr	ix (F3)				
Thick Dark S	Surface (A12)	-	Redox Dark S	urface (F6)		<sup>3</sup> Indicators of hy	drophytic vegetation	and wetland
Sandy Mucky	y Mineral (S1)	-	Depleted Dark	Surface (F7)		hydrology must	be present, unless di	sturbed or
Sandy Gleye	ed Matrix (S4)	-	Redox Depres	sions (F8)		problematic.		
Restrictive Laye	er (if present):							
Туре	e:					Hydric Soil		
Depth (inches):						Present?	Yes	No <u>X</u>
HYDROLOG	Y							
Wetland Hydrold	ogy Indicators:							
Primary Indicator	s (minimum of one i	required; chec	k all that apply)			Secondary India	cators (2 or more requ	<u>uired)</u>
Surface Wate	er (A1)	-	Water-Stained	Leaves (B9) (ex	cept MLRA	Water-Stain	ed Leaves (B9) (MLF	RA 1, 2,
High Water T	Гable (A2)		1, 2, 4A, an	d 4B)		4A, and 4	IB)	
Saturation (A	A3)	-	Salt Crust (B1	1)		Drainage Pa	atterns (B10)	
Water Marks	s (B1)	-	Aquatic Inverte	ebrates (B13)		Dry-Season	Water Table (C2)	
Sediment De	eposits (B2)	-	Hydrogen Sulf	ide Odor (C1)		Saturation \	/isible on Aerial Imag	ery (C9)
Drift Deposite	s (B3)	-	Oxidized Rhize	ospheres along L	_iving Roots (C3)	Geomorphic	Position (D2)	
Algal Mat or	Crust (B4)	-	Presence of R	educed Iron (C4	)	Shallow Aq	uitard (D3)	
Iron Deposits	s (B5)	-	Recent Iron Re	eduction in Tilled	I Soils (C6)	FAC-Neutra	al Test (D5)	,
Surface Soil	Cracks (B6)	-	Stunted or Stre	essed Plants (D1	I) (LRR A)	Raised Ant	Mounds (D6) (LRR A	)
Inundation V	isible on Aerial Imag	gery (B7)	Other (Explain	in Remarks)		Frost-Heave	e Hummocks (D7)	
Sparsely Veo	getated Concave Su	irface (B8)						
Field Observation	ons:							
Surface Water P	resent? Yes		No <u>X</u>	Depth (inche	es):	Wetland		
Water Table Pres	sent? Yes		No <u>X</u>	Depth (inche	es): >16"	Hydrology	Yes	No <u>X</u>
Saturation Prese (includes capillar	ent? Yes ry fringe)		No <u>X</u>	Depth (inche	es): <u>&gt;16"</u>	Present?		
Describe Recor	ded Data (stream g	gauge, monit	oring well, aerial	photos, previou	us inspections), if	f available:		
Bomerica								
Remarks:	proximately 1 hour 9	Soils dry throu	iahout.					
		ary arou						

Project/Site:	Oregon Street Busir	ness Park		City/County	: Sherwood / V	Vashington	Sampling Date:	3/8/2021
Applicant/Owner	r: Oregon Street Bu	isiness Park, LLC				State: OR	Sampling P	oint: <u>8</u>
Investigator(s):	Stacey Reed, PWS	and Sonya Temple	eton	Section,	Township, Ran	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslo	ope, terrace, etc.):	Footslope/Floodp	lain		Local relief (c	concave, convex, none):	Concave S	Slope (%): <3%
Subregion (LRR	): A. Northwest For	ests and Coast		Lat: 45.360765	Lo	ng: -122.823791	Datum:	
Soil Map Unit Na	ame: Briedw	ell stony silt loam,	, (Unit 5B), 0	% to 7% slopes; Nor	n-hydric	NWI c	assification:	None
Are climatic / hy	drologic conditions o	n the site typical fo	or this time of	of year?	Y	'es X No	(If no, explain	n in Remarks)
Are Vegetation	, Soil	, or l	-lydrology	significantly dis	turbed? A	Are "Normal Circumstance	s" present?	Yes X No
Are Vegetation	, Soil	, or I	-lydrology	naturally proble	ematic? (	If needed, explain any ans	swers in Remarks.	)
SUMMARY	OF FINDINGS -	Attach site m	nap show	ing sampling po	oint location	ns, transects, impor	tant features,	etc.
Hydrophytic Ve	getation Present?	Yes	Х	No				
Hydric Soil Pres	sent?	Yes	х	No	Is the Samp	led Area		
Wetland Hydrol	ogy Present?	Yes	х	No	within a We	tland? Yes )	( No	
Precipitation: According to the	NWS Hillsboro wea	ther station, 0.01 i	nches of rai	nfall was received on	the day of and	1.02 inches within the tw	o weeks prior.	
Remarks: Plot is located w	rithin Wetland B on tl	ne west side of SV	√ Tonquin R	oad.				
VEGETATIO	N							
			Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (F	Plot Size: 30' r or	)	% Cover	Species?	<u>Status</u>	Number of Dominant	Species	
1.						That Are OBL, FACW	, or FAC:	<u>1</u> (A)
2.		<u> </u>						
3.						Total Number of Dom	inant	
4.		<u> </u>				Species Across All St	rata:	<u>1</u> (B)
		_	0%	= Total Cover				
Sapling/Shrub S	tratum (Plot Size: 1	<u>0'ror)</u>				Percent of Dominant	Species	
1.						That Are OBL, FACW	, or FAC:	<u>100%</u> (A/B)
2.						Prevalence Index we	orksheet:	
3.						Total % Cover o	f: Multiply by:	
4.						OBL species (	) x 1 =	0
5.						FACW species 10	00 x 2 =	200
			0% :	= Total Cover		FAC species (	) x 3 =	0
Herb Stratum (F	Plot Size: 5' r or	)				FACU species (	) x 4 =	0
1. Phalaris aru	Indinacea		100%	Yes	FACW	UPL species (	x 5 =	0
2.						Column Totals: 10	00 (A)	200 (B)
3.						Prevalence Index	= B/A =	2.00
4.		·				Hydrophytic Vegeta	tion Indicators:	
5						1 - Rapid Test for	Hydrophytic Vege	tation
6						X 2 - Dominance Te	et is >50%	
7		<u> </u>				2 Dravalance In	dow in $<2.0^{1}$	
· . •		<u> </u>				3 - Prevalence in	$\frac{1}{2} \frac{1}{2} \frac{1}$	
o		<u> </u>				4 - Morphological	Adaptations (Pro	
9		<u> </u>					ks of off a separat	e sneet)
10.		<u> </u>				5 - Wetland Non-	Vascular Plants	( <b>— — — )</b> 1
11.						Problematic Hydr	ophytic Vegetation	i (Explain)
Woody Vine Stra	atum (Plot Size: 10' r	<u>or )</u>	100% =	= Total Cover		'Indicators of hydric s be present.	oil and wetland hy	drology must
2.						Hydrophytic		
			0%	= Total Cover		Vegetation	Yes X No	
% Bare Ground	in Herb Stratum	0%	576			Present?		
Remarks: Bareground cov	ered by leaf litter.							

SOIL							Sampling Point:	8
Profile Description	on (Describe to th	e depth nee	eded to document	the indicator or	confirm the abse	ence of indicator	rs):	
Depth	Matrix	<		Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	2.5Y 3/1	90	7.5YR 4/4	10	С	M/PL	SiCL	
				<u> </u>				
				<u> </u>				
					. <u></u>			
<sup>1</sup> Type: C=Concent	tration, D=Depletic	on, RM=Redu	uced Matrix CS=Co	vered or Coated S	Sand Grains.			
<sup>2</sup> Location: PL=Por	re Lining, M=Matrix	κ.						
Hydric Soil Indica	ators (Applicable	to all LRRs,	unless otherwise	noted):		Indicators for	Problematic Hydric S	Soils <sup>3</sup> :
Histosol (A1)			Sandy Redox	(S5)		2 cm Muc	k (A10)	
Histic Epipedo	on (A2)		Stripped Matri	x (S6)		Red Parer	nt Material (TF2)	
Black Histic (A	43)		Loamy Mucky	Mineral (F1) (exc	ept MLRA 1)	Very Shall	low Dark Surface (TF12	2)
Hydrogen Sulf	fide (A4)		Loamy Gleyed	d Matrix (F2)		Other (Exp	olain in Remarks)	
Depleted Belo	ow Dark Surface (A	.11)	Depleted Matr	ix (F3)				
Thick Dark Su	urface (A12)		X Redox Dark S	urface (F6)		<sup>3</sup> Indicators of I	hydrophytic vegetation :	and wetland
Sandy Mucky	Mineral (S1)		Depleted Dark	surface (F7)		hydrology mus	st be present, unless dis	sturbed or
Sandy Gleyed	d Matrix (S4)		Redox Depres	ssions (F8)		problematic.		
Restrictive Layer	(if present):							
Turney	:					Hydric Soil		
Type.								N.a.
Depth (inches): Remarks:						Present?	Yes X	NO
Depth (inches):						Present?	Yes X	NO
Entry Content of State S						Present?	Yes X	NO
Type. Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog	gy Indicators:					Present?	Yes X	NO
Type. Depth (inches): Remarks: HYDROLOGY Wetland Hydrolog Primary Indicators	gy Indicators:	equired; che	ck all that apply)			Present?	Yes X	NO
Primary Indicators Surface Water	gy Indicators: (minimum of one r r (A1)	equired; che	<u>ck all that apply)</u> Water-Stained	Leaves (B9) (exc	cept MLRA	Present? Secondary Inc. Water-Sta	Yes X	<u>ired)</u> A 1, 2,
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta	gy Indicators: (minimum of one r r (A1) able (A2)	equired; che	<u>ick all that apply)</u> Water-Stained 1, 2, 4A, an	Leaves (B9) (exc d 4B)	xept MLRA	Present? Secondary Inc Water-Sta 4A, and	Yes X dicators (2 or more required Leaves (B9) (MLR	ired) A 1, 2,
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)	gy Indicators: <u>(minimum of one r</u> r (A1) able (A2) 3)	equired; che	<ul> <li><u>ck all that apply</u></li> <li><u>Water-Stained</u></li> <li>1, 2, 4A, an</li> <li>Salt Crust (B1</li> </ul>	I Leaves (B9) (exc d 4B) 1)	cept MLRA	Present? Secondary Inc Water-Sta 4A, and Drainage	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 14B) Patterns (B10)	ired) A 1, 2,
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1)	equired; che	<u>ck all that apply)</u> Water-Stained 1, 2, 4A, an Salt Crust (B1	I Leaves (B9) (exc d 4B) 1) ebrates (B13)	cept MLRA	Present? Secondary Inc Water-Sta 4A, and Drainage	<u>dicators (2 or more requ</u> ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2)	<u>ired)</u> A 1, 2,
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) posits (B2)	equired; che	<u>ck all that apply)</u> Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert	Heaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1)	cept MLRA	Present? <u>Secondary Inc</u> Water-Sta 4A, and Drainage I Dry-Seaso Saturation	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image	<u>ired)</u> A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep         Drift Deposits	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) cosits (B2) (B3)	equired; che	<ul> <li><u>ck all that apply</u></li> <li>Water-Stained</li> <li>1, 2, 4A, an</li> <li>Salt Crust (B1</li> <li>Aquatic Invert</li> <li>Hydrogen Sul</li> <li>Oxidized Rhiz</li> </ul>	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li	cept MLRA	Present? Secondary Inc Water-Sta 4A, and Drainage Dry-Seaso Saturation Geomorph	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image hic Position (D2)	ired) A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Deposits         Algal Mat or C	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)	equired; che	<ul> <li>bck all that apply)</li> <li>Water-Stained</li> <li>1, 2, 4A, an</li> <li>Salt Crust (B1</li> <li>Aquatic Invert</li> <li>Hydrogen Sult</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> </ul>	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4)	cept MLRA	Present? Secondary Inc Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image nic Position (D2) quitard (D3)	<u>ired)</u> A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5)	equired; che	<ul> <li><u>ck all that apply</u></li> <li>Water-Stained</li> <li>1, 2, 4A, an</li> <li>Salt Crust (B1</li> <li>Aquatic Invert</li> <li>Hydrogen Sult</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> <li>Recent Iron R</li> </ul>	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li educed Iron (C4) eduction in Tilled	cept MLRA ving Roots (C3) Soils (C6)	Present? Secondary Inc. Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image nic Position (D2) quitard (D3) ral Test (D5)	<u>ired)</u> A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Surface Soil C	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6)	equired; che	<ul> <li><u>ck all that apply</u></li> <li>Water-Stained</li> <li>1, 2, 4A, an</li> <li>Salt Crust (B1</li> <li>Aquatic Invert</li> <li>Hydrogen Sult</li> <li>Oxidized Rhiz</li> <li>Presence of F</li> <li>Recent Iron R</li> <li>Stunted or Str</li> </ul>	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled s essed Plants (D1)	ving Roots (C3) Soils (C6)	Present? Secondary Inc Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised Ar	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image hic Position (D2) quitard (D3) ral Test (D5) ht Mounds (D6) (LRR A)	<u>ired)</u> A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Surface Soil C         Inundation Vis	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Imag	equired; che	<ul> <li><u>ck all that apply</u></li> <li>Water-Stained</li> <li>1, 2, 4A, an</li> <li>Salt Crust (B1</li> <li>Aquatic Invert</li> <li>Hydrogen Sult</li> <li>Oxidized Rhiz</li> <li>Presence of R</li> <li>Recent Iron R</li> <li>Stunted or Str</li> <li>Other (Explain</li> </ul>	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks)	ving Roots (C3) Soils (C6)	Present? Secondary Inc Water-Sta 4A, and Drainage I Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea	Yes X dicators (2 or more requined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagenic Position (D2) quitard (D3) ral Test (D5) at Mounds (D6) (LRR A) ve Hummocks (D7)	ired) A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Deposits         Algal Mat or C         Iron Deposits (         Surface Soil C         Inundation Vis         Sparsely Vege	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su	equired; che gery (B7) Irface (B8)	Ck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled i essed Plants (D1) n in Remarks)	ving Roots (C3) Soils (C6) (LRR A)	Present? Secondary Inc Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea	Yes X dicators (2 or more requined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image nic Position (D2) quitard (D3) ral Test (D5) tt Mounds (D6) (LRR A) ve Hummocks (D7)	<u>ired)</u> A 1, 2, ery (C9)
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Surface Soil C         Inundation Vis         Sparsely Vege         Field Observation	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) Sible on Aerial Image etated Concave Su ns:	equired; che gery (B7) Irface (B8)	ick all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sul         Oxidized Rhiz         Presence of F         Recent Iron R         Stunted or Str         Other (Explain	d Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks)	ving Roots (C3) Soils (C6)	Present? Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 14B) Patterns (B10) on Water Table (C2) 1 Visible on Aerial Image nic Position (D2) quitard (D3) ral Test (D5) at Mounds (D6) (LRR A) ve Hummocks (D7)	ired) A 1, 2, ery (C9)
Hype.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Surface Soil C         Inundation Vis         Sparsely Vege         Field Observation         Surface Water Pre-	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su ns: esent? Yes	equired; che gery (B7) Irface (B8)	all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain	Heaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks) Depth (inches	ving Roots (C3) Soils (C6) (LRR A)	Present? Secondary Inc Water-Sta 4A, and Drainage I Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea	Yes X dicators (2 or more requined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imagenic Position (D2) quitard (D3) ral Test (D5) at Mounds (D6) (LRR A) ve Hummocks (D7)	ired) A 1, 2, ery (C9)
Hype.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Algal Mat or C         Inundation Vis         Sparsely Vege         Field Observation         Surface Water Preso	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su ns: esent? Yes period	equired; che gery (B7) Irface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks) Depth (inches Depth (inches	2ept MLRA ving Roots (C3) Soils (C6) (LRR A)	Present? Secondary Inc Water-Sta 4A, and Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image hic Position (D2) quitard (D3) ral Test (D5) ht Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	NO
Hype.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Algal Mat or C         Inundation Vis         Sparsely Vege         Field Observation         Surface Water Present         Vater Table Present         Saturation Present         (includes capillary)	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su ns: esent? Yes ent? Yes ht? Yes r (Finge)	pery (B7) Inface (B8)	ack all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No         No         No	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li educed Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks) Depth (inches Depth (inches Depth (inches	<pre>&gt;&gt;&gt; MLRA ving Roots (C3) Soils (C6) (LRR A) </pre>	Present? Secondary Inc Water-Sta 4A, and Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present?	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image hic Position (D2) quitard (D3) ral Test (D5) ht Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	NO
Hype.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Algal Mat or C         Inundation Vis         Sparsely Vege         Field Observation         Surface Water Prese         Saturation Presen         (includes capillary)         Describe Record	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su ns: esent? Yes etate? Yes at? Yes fringe)	equired; che gery (B7) Irface (B8) X X X Jauge, moni	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No         No         No         Itoring well, aerial	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li deduced Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks) Depth (inches Depth (inches Depth (inches Depth (inches	ving Roots (C3) Soils (C6) (LRR A) s): s): s): s): s): si	Present? Secondary Inc Water-Sta 4A, and Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present? f available:	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image nic Position (D2) quitard (D3) ral Test (D5) tt Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	NO
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits (         Surface Soil C         Inundation Vis         Sparsely Vege         Field Observation         Sutrace Water Prese         Saturation Presen         (includes capillary)         Describe Record         Remarks:	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su ns: esent? Yes ent? Yes int? Yes / fringe) ded Data (stream g	equired; che gery (B7) Irface (B8) X X X Jauge, moni	Inck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of F         Recent Iron R         Stunted or Str         Other (Explain         No         No         No         No         itoring well, aerial	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled : essed Plants (D1) o in Remarks) Depth (inches Depth (inches Depth (inches Depth (inches	xept MLRA ving Roots (C3) Soils (C6) (LRR A) s):s):s s):s s):s s inspections), it	Present?  Secondary Inc Water-Sta 4A, and Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present? favailable:	Yes X dicators (2 or more requined Leaves (B9) (MLR 14B) Patterns (B10) on Water Table (C2) Visible on Aerial Image nic Position (D2) quitard (D3) ral Test (D5) tt Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	NO
Type.         Depth (inches):         Remarks:         HYDROLOGY         Wetland Hydrolog         Primary Indicators         Surface Water         X         High Water Ta         X         Saturation (A3)         Water Marks (         Sediment Dep         Drift Deposits         Algal Mat or C         Iron Deposits         Surface Soil C         Inundation Vis         Sparsely Vege         Field Observation         Surface Water Prese         Saturation Presen         (includes capillary)         Describe Record         Remarks:	gy Indicators: (minimum of one r r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Cracks (B6) sible on Aerial Image etated Concave Su ns: esent? Yes ient? Yes if (ringe) ied Data (stream g	equired; che gery (B7) Irface (B8) X X X Jauge, moni	ack all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sul         Oxidized Rhiz         Presence of F         Recent Iron R         Stunted or Str         Other (Explain         No         No         No         No         itoring well, aerial	I Leaves (B9) (exc d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Li teduced Iron (C4) eduction in Tilled essed Plants (D1) n in Remarks) Depth (inches Depth (inches Depth (inches Depth (inches	ept MLRA ving Roots (C3) Soils (C6) (LRR A) s):s):s s):s s):s s inspections), if	Present?  Secondary Inc Water-Sta 4A, and Drainage Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised Ar Frost-Hea Wetland Hydrolog Present? favailable:	Yes X dicators (2 or more requ ined Leaves (B9) (MLR 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Image inc Position (D2) quitard (D3) ral Test (D5) it Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	NO

Project/Site: Oregon Street Business Park		City/County	y: <u>Sherwood / W</u>	ashington	Sampling Date:	3/8/2021
Applicant/Owner: Oregon Street Business Park,	LLC			State: OR	Sampling Point	.: <u>10</u>
Investigator(s): Stacey Reed, PWS and Sonya Te	empleton	Section,	Township, Rang	ge: <u>Sec. 28, T.2S., R.1W.</u>	, W.M.	
Landform (hillslope, terrace, etc.): Hillslope			Local relief (co	oncave, convex, none):	Convex Slop	ve (%): <3%
Subregion (LRR): A. Northwest Forests and Coast	st Lat	: 45.361319	Lor	ng: -122.822837	Datum:	
Soil Map Unit Name: Briedwell stony silt le	oam, (Unit 5B), 0% to	o 7% slopes; No	n-hydric	NWI cl	assification:	None
Are climatic / hydrologic conditions on the site typic	cal for this time of ye	ar?	Ye	es <u>X</u> No	(If no, explain in	Remarks)
Are Vegetation, Soil	, or Hydrology	_significantly dis	sturbed? A	re "Normal Circumstance	s" present? Ye	₃ <u>X</u> No
Are vegetation, Soli	, or Hydrology	_naturally proble	ematic? (I	r needed, explain any ans	swers in Remarks.)	
SUMMARY OF FINDINGS – Attach sit	e map showing	sampling p	oint location	s, transects, impor	tant features, et	с.
Hydrophytic Vegetation Present?	Yes No	• <u> </u>	la tha Campi	ad Area		
Hydric Soil Present?	Yes No	× ×	within a Wet	land?		
Wetland Hydrology Present?	res No	<b>X</b>	within a wet	Yes	<u> </u>	
Precipitation: According to the NWS Hillsboro weather station, 0 Remarks:	.01 inches of rainfall	was received or	n the day of and	1.02 inches within the two	o weeks prior.	
VEGETATION						
VEGETATION	Absolute	Dominant	Indicator	Dominanco Tost wo	rkshoot:	
Tree Stratum (Plot Size: 30' r or )	% Cover	Species?	Status	Number of Dominant	Species	
1. Acer macrophyllum	30%	Yes	FACU	That Are OBL. FACW	or FAC: 0	(A)
2.				,,		(*)
3.				Total Number of Dom	inant	
4.				Species Across All St	rata: 4	(B)
	30% = To	tal Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or	)			Percent of Dominant	Species	
1. Symphoricarpos albus	20%	Yes	FACU	That Are OBL, FACW	, or FAC: <u>0%</u>	<u>́∘</u> (A/B)
2. Mahonia aquifolium	15%	Yes	FACU	Prevalence Index wo	orksheet:	
3. Rubus armeniacus	5%	No	FAC	Total % Cover of	f: Multiply by:	
4. Oemleria cerasiformis	5%	No	FACU	OBL species 0	x 1 =	0
5				FACW species 0	x 2 =	0
	<u>45%</u> = To	tal Cover		FAC species 10	) x 3 =	30
Herb Stratum (Plot Size: 5' r or )				FACU species 4	0 x 4 =	160
1. Geranium molle	80%	Yes	NOL	UPL species 80	) x 5 =	400
2. Poa species	5%	No	FAC*	Column Totals: 13	60 (A)	<u>590</u> (B)
3				Prevalence Index	= B/A = 4	· <u>.54</u>
4.				Hydrophytic Vegeta	tion Indicators:	
5.				1 - Rapid Test for	Hydrophytic Vegetati	on
o					est is >50%	
7				3 - Prevalence Inc	dex is ≤3.0'	
8.		. <u> </u>		4 - Morphological	Adaptations (Provid	e supporting
9					ks of off a separate si	leel)
11				5 - Welland Non-	vascular Plants	volain) <sup>1</sup>
····	<u>950/</u> – To	tal Cavar		<sup>1</sup> Indicators of hydric a	ophytic vegetation (E	kpiairi)
Woody Vine Stratum (Plot Size: 10' r or) 1.	<u>    85%    </u> =10	lai Cover		be present.	on and wettand hydro	logy must
2.				Hydrophytic		
% Bare Ground in Herb Stratum15%	<u>    0%    </u> = To	tal Cover		Vegetation Present?	Yes No	<u>x</u>
Remarks:						-
*Assumed FAC.						

Profile Description	(Describe to th	e depth nee	ded to document	the indicator or confirm the abso	ence of indicators	):	
Depth	Matrix	<b>(</b>		Redox Features			
(inches) C	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-9	10YR 3/2	100		<u> </u>		SiL	
9-16	10YR 3/3	100	·			SiL	
			· · · · · · · · · · · · · · · · · · ·	- <u> </u>			
				·			
Type: C=Concentra	ation, D=Depletio	on, RM=Redu ,	iced Matrix CS=Co	vered or Coated Sand Grains.			
Jocation. PL-Pore		to all I PPe	unloss othorwise	notod):	Indicators for	Droblemetic Undrie C	oilo <sup>3</sup> .
	ors (Applicable )	to all LKKS,		(OC)		Problematic Hydric S	
	(4.2)		Sandy Redox	(85)	2 cm Muck	(A10) Meterial (TE2)	
Histic Epipedon	(A2)			X (S6)		Material (TF2)	<b>`</b>
Black Histic (A3)	)			Mineral (FT) (except MLRA T)	Very Shallo	w Dark Surface ( $1 + 12$ )	)
Hydrogen Sullid	e (A4) Dark Curfese (A	44)	Loamy Gleyed	(F2)	Other (Expl	ain in Remarks)	
Depieted Below	Dark Suriace (A	.11)	Depieted Matr	IX (F3)			
Thick Dark Suna	ineral (S1)		Redux Dark S	v Surfood (EZ)	<sup>3</sup> Indicators of hy	drophytic vegetation a	ind wetland
Sandy Nucky M	$\frac{1161a1}{51}$		Depieted Dark	voinace (F7)	hydrology must	be present, unless dis	turbed or
					problematic.		
Restrictive Layer (if	f present):						
Type:					Hydric Soil		
Denth (inches):					Due e e má?	Vee	
Depth (inches):					Present?	Yes	No <u>X</u>
Depth (inches):					Present?	Yes	No <u>X</u>
Arrow Contraction of the second secon					Present?	Yes	No <u>X</u>
Type: Depth (inches): Remarks: TYDROLOGY Vetland Hydrology	Indicators:				Present?	Yes	No X
Depth (inches): Remarks: HYDROLOGY Vetland Hydrology Primary Indicators (n	Indicators:	equired; che	ck all that apply)		Present?	Yes	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         Units Water To Stress	Indicators: ninimum of one r A1)	equired; che	<u>ck all that apply)</u> Water-Stained	Leaves (B9) (except MLRA	Present? <u>Secondary India</u> Water-Stair	Yes cators (2 or more requi ned Leaves (B9) (MLR/	No X red) A 1, 2,
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Octowrting (AD)	Indicators: ninimum of one r A1) le (A2)	equired; che	ck all that apply) Water-Stained 1, 2, 4A, an	I Leaves (B9) (except MLRA d 4B)	Present? <u>Secondary India</u> <u>Water-Stair</u> 4A, and 4	Yes cators (2 or more requi led Leaves (B9) (MLR/ IB)	No X red) A 1, 2,
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)	Indicators: ninimum of one r A1) e (A2)	equired; che	<u>ck all that apply)</u> Water-Stainec 1, 2, 4A, an Salt Crust (B1	I Leaves (B9) (except MLRA d 4B) 1)	Present? <u>Secondary India</u> <u>Water-Stair</u> 4A, and 4 <u>Drainage P</u>	Yes cators (2 or more requi ned Leaves (B9) (MLRA HB) atterns (B10)	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B*)	Indicators: ninimum of one r A1) le (A2) 1)	equired; che	<u>ck all that apply)</u> Water-Stainec 1, 2, 4A, an Salt Crust (B1	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13)	Present? <u>Secondary India</u> Water-Stair 4A, and 4 Drainage P Dry-Seasor	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) n Water Table (C2)	No X red) A 1, 2,
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B)         Sediment Depos	Indicators: ninimum of one r A1) le (A2) 1) sits (B2)	equired; che	<u>ck all that apply)</u> Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1)	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation	Yes cators (2 or more requi ned Leaves (B9) (MLR/ 4B) atterns (B10) 1 Water Table (C2) /isible on Aerial Image	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (A         High Water Table         Saturation (A3)         Water Marks (B'         Sediment Depose         Drift Deposits (B	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) i3)	equired; che	ck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3)	Present? <u>Secondary India</u> <u>Water-Stair</u> 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2)	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B)         Sediment Deposits (B)         Drift Deposits (B)         Algal Mat or Cru         Name Deposits (D)	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) ist (B4) 5)	equired; che	<u>ck all that apply)</u> Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) leduced Iron (C4)	Present? <u>Secondary India</u> <u>Water-Stair</u> 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3)	No X red) A 1, 2, ry (C9)
Depth (inches): Depth (inches): Remarks: HYDROLOGY Vetland Hydrology Primary Indicators (m Surface Water (A High Water Table Saturation (A3) Water Marks (B Sediment Depose Drift Deposits (B Algal Mat or Cru Iron Deposits (B	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) 13) st (B4) 5)	equired; che	<u>ck all that apply)</u> Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6)	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra	Yes <u>cators (2 or more requi</u> ned Leaves (B9) (MLR/ HB) atterns (B10) i Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5)	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Netland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B <sup>2</sup> )         Sediment Depose         Drift Deposits (B         Algal Mat or Cruu         Iron Deposits (B         Surface Soil Cra	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) I3) lst (B4) 5) lcks (B6)	equired; che	ck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A)	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra Raised Ant	Yes cators (2 or more requi ned Leaves (B9) (MLR/ BB) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (A         High Water Table         Saturation (A3)         Water Marks (B'         Sediment Depose         Drift Deposits (B         Algal Mat or Cru         Iron Deposits (B         Surface Soil Cra         Inundation Visib	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) i3) ist (B4) 5) icks (B6) le on Aerial Imag	equired; che	ck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) in Remarks)	Present? <u>Secondary India</u> Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra Raised Ant Frost-Heave	Yes cators (2 or more requi ned Leaves (B9) (MLR/ B) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) at Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (m         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B <sup>2</sup> )         Sediment Deposits         Drift Deposits (B         Algal Mat or Crul         Iron Deposits (B         Surface Soil Cra         Inundation Visib         Sparsely Vegeta	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) ist (B2) ist (B4) 5) scks (B6) le on Aerial Imag ated Concave Su	equired; che gery (B7) rface (B8)	<u>ck all that apply)</u> Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) i in Remarks)	Present? Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) 1 Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B <sup>2</sup> )         Sediment Deposits         Drift Deposits (B         Algal Mat or Crul         Iron Deposits (B         Surface Soil Cral         Inundation Visib         Sparsely Vegeta	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) I3) ist (B4) 5) ist (B4) 5) icks (B6) le on Aerial Imag ated Concave Su :	equired; che gery (B7) Irface (B8)	ck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) t in Remarks)	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphia Shallow Aq FAC-Neutra Raised Ant Frost-Heave	Yes cators (2 or more requi ned Leaves (B9) (MLR/ BB) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (A         High Water Table         Saturation (A3)         Water Marks (B'         Sediment Deposits         Drift Deposits (B         Algal Mat or Crul         Iron Deposits (B         Surface Soil Cral         Inundation Visib         Sparsely Vegeta         Surface Water Press	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) i3) ist (B4) 5) icks (B6) le on Aerial Imag ated Concave Su : ent? Yes	equired; che gery (B7) Irface (B8)	ck all that apply) Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sult Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) in Remarks)	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	No X red) A 1, 2, ry (C9)
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Netland Hydrology         Primary Indicators (n         Surface Water (A         High Water Table         Saturation (A3)         Water Marks (B:         Sediment Depose         Drift Deposits (B         Algal Mat or Cru         Iron Deposits (B         Surface Soil Cra         Inundation Visib         Sparsely Vegeta         Surface Water Presen         Water Table Presen	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) 33) ist (B4) 5) ist (B4) 5) le on Aerial Imag ated Concave Su ient? Yes t? Yes	equired; che jery (B7) Irface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sull         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No       X         No       X	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) teduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) t in Remarks) Depth (inches):	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7) Yes	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B <sup>2</sup> )         Sediment Deposits         Drift Deposits (B         Algal Mat or Crul         Iron Deposits (B         Surface Soil Cral         Inundation Visib         Sparsely Vegeta         Field Observations:         Surface Water Present         Saturation Present?         (includes capillary fr	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) l3) lst (B4) 5) le on Aerial Imag ated Concave Su tent? Yes t? Yes Yes Yes inge)	equired; che gery (B7) Irface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No       X         No       X         No       X         No       X	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) teduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) t in Remarks) Depth (inches):	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) i Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) at Test (D5) Mounds (D6) (LRR A) e Hummocks (D7) Yes	No X red) A 1, 2, ry (C9) No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B)         Sediment Deposits (B)         Algal Mat or Crule         Iron Deposits (B)         Surface Soil Crale         Inundation Visib         Sparsely Vegeta         Field Observations:         Surface Water Present         Saturation Present?         (includes capillary fr	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) i3) sit (B4) 5) le on Aerial Imag ated Concave Su tent? Yes t? Yes Yes inge)	equired; che gery (B7) Irface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No       X         No       X         No       X	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) t in Remarks) Depth (inches):	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphic Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7) Yes	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Netland Hydrology         Primary Indicators (n         Surface Water (A         High Water Table         Saturation (A3)         Water Marks (B:         Sediment Depose         Drift Deposits (B         Algal Mat or Cru         Iron Deposits (B         Surface Soil Cra         Inundation Visib         Sparsely Vegeta         Surface Water Presen         Saturation Present?         (includes capillary fr         Describe Recorded	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) 33) ist (B4) 5) le on Aerial Imag ated Concave Su ient? Yes t? Yes t? Yes inge)	equired; che gery (B7) Irface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sull         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No       X         No       X	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) teduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) t in Remarks) Depth (inches):	Present? <u>Secondary India</u> <u>Water-Stair</u> 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present? f available:	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7) Yes	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Vetland Hydrology         Primary Indicators (m         Surface Water (a         High Water Table         Saturation (A3)         Water Marks (B <sup>2</sup> )         Sediment Deposits         Drift Deposits (B         Algal Mat or Crul         Iron Deposits (B         Surface Soil Cra         Inundation Visib         Sparsely Vegeta         Field Observations:         Sutface Water Presen         Saturation Present?         (includes capillary fr         Describe Recorded	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) i3) ist (B4) 5) icks (B6) le on Aerial Imag ated Concave Su : ent? Yes t? Yes Yes inge) I Data (stream g	gery (B7) Inface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No       X         No       X         No       X         toring well, aerial	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) educed Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) e in Remarks) Depth (inches):	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present? f available:	Yes cators (2 or more requi ned Leaves (B9) (MLR/ HB) atterns (B10) 1 Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7) Yes	No X
Depth (inches):         Depth (inches):         Remarks:         HYDROLOGY         Netland Hydrology         Primary Indicators (n         Surface Water (n         High Water Table         Saturation (A3)         Water Marks (B):         Sediment Deposits (B)         Algal Mat or Crue         Iron Deposits (B)         Surface Soil Crae         Inundation Visib         Sparsely Vegeta         Field Observations:         Surface Water Presen         Saturation Present?         (includes capillary fr         Describe Recorded         Remarks:	Indicators: ninimum of one r A1) le (A2) 1) sits (B2) i3) ist (B4) 5) le on Aerial Image ated Concave Su : ent? Yes t? Yes Yes inge) 1 Data (stream g	gery (B7) rface (B8)	ck all that apply)         Water-Stained         1, 2, 4A, an         Salt Crust (B1         Aquatic Invert         Hydrogen Sult         Oxidized Rhiz         Presence of R         Recent Iron R         Stunted or Str         Other (Explain         No       X         No       X         No       X         No       X         No       X         toring well, aerial	I Leaves (B9) (except MLRA d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Living Roots (C3) reduced Iron (C4) eduction in Tilled Soils (C6) essed Plants (D1) (LRR A) t in Remarks) Depth (inches):	Present?  Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation Geomorphia Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present? favailable:	Yes cators (2 or more requi ned Leaves (B9) (MLR/ BB) atterns (B10) n Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7) Yes	No X

ApplicationDeser         Gengen States Basimes Park LLC         State _ OR	Project/Site: Oregon Street Business Par	k	City/Count	ty: Sherwood / W	√ashington	Sampling Date:	3/8/2021
Investigation (2016): Stary Rend, PVS and Samya Tempeton         Sector, Tourniship, Range: Sec: 8, 128, F.1W, VML           Underden (Niskows rends, C): "Condex         Local relif (concers, convex, norms, norms, "Sec: 8, 128, F.1W, VML           Subregion (LRRP, A. Northwest Forests and Coast         Lot (4.5) (Startows, convex, norms, norms, "Sec: 8, 128, F.1W, VML           Subregion (LRRP, A. Northwest Forests and Coast         Lot (4.5) (Startows, convex, norms, norms, "Sec: 8, 128, F.1W, VML           Subregion (LRRP, A. Northwest Forests and Coast         Lot (4.5) (Startows, convex, norms, norms, "Sec: 8, 128, F.1W, VML           Subregion (LRRP, A. Northwest Forests and Coast         Lot (4.5) (Startows, convex, norms, norms, "Sec: 8, 179, FLRP, Norms, "Sciences Forestor," Yes	Applicant/Owner: Oregon Street Business F	Park, LLC			State: OR	Sampling Poi	nt: <b>11</b>
Landorm (Pillailope, tarnos, ecc): <u>Loselope</u>	Investigator(s): Stacey Reed, PWS and Son	ya Templeton	Section,	, Township, Rang	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Subregion (LHR):       A Notifiest Forestand Coast       Lat:       4.331121       Long: 122.232031       Dam!         Are dimain?       Intermitting (Stable Value)       Intermitting (Stable Value)       No       No         Are dimain?       Stable Value Name       No       Intermitting (Stable Value)       No       No         Are dimain?       Stable Value       No       X       No       No       No         Are dimain?       Stable Value       No       X       No       No       X         Are Value       Stable Value       No       X       No       X       No       X         Are Value       Stable Value       No       X       Intermitting Value       No       X       No       X         Value       No       X       Intermitting Value       No       X       No       X         Value       No       X       Intermitting Value       No       X       No       X         Value       No       X       Intermitting Value       Intermitting Value       No       X         Value       No       X       Intermitting Value       No       X       No       X         Value       No       X       <	Landform (hillslope, terrace, etc.): Toeslop	e		Local relief (c	oncave, convex, none):	Convex Slo	ope (%): <3%
Sold Map Link Name       Bindwall story sitt loan; (bit Sb), (bit or 7% slopes; Non-hydric       Non       Non       Non         Sold Map Link Name       Sold      , of Hydrology       significantly disubated?       Are Normal Circumstance: present?       Yes       X No      , (In code, clopial may answers in Ramarks).         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.       Hydrolydiv       No       X       No	Subregion (LRR): A. Northwest Forests and	Coast	Lat: 45.361121	Loi	ng: -122.823001	Datum:	
Are dimatic / hydrologic conflictions on the site bysical for this time of year?         Yea         Yea         No         (mo, copliand in Remarks)           Are Vegetation	Soil Map Unit Name: Briedwell stony	/ silt loam, (Unit 5B),	0% to 7% slopes; No	on-hydric	NWI c	lassification:	None
Are Vegetation       Soll       _or Hydrology       significantly disturbed?       Are "Normal Circumstance" present?       Yes	Are climatic / hydrologic conditions on the sit	e typical for this time	of year?	Y	es X No	(If no, explain	in Remarks)
Are Vegenation	Are Vegetation, Soil	, or Hydrology	significantly di	isturbed? A	vre "Normal Circumstance	s" present? Y	es X No
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrobyliv Vagalain Present?       Yes         Yes       No         X       is the Sampled Area within a Westand?       Yes         Precipitation:       No       X         Reards:       No       X         Vista       No       X         Vista       No       X         No       X       No         Yes       No       X         Precipitation:       No       X         1.       Abackute       Dominant       Indicator         1.       Abackute       Dominant       Indicator         2.       Abackute       Dominant       Indicator         3.       -       -       -         1.       Ac       -       -         2.       Abackute       Down       -         3.       -       -       -         1.       Ac       -       -         2.       Abackute       Dominant       Indicator         3.       -       -       -         1.       -       -       -         2.       D	Are Vegetation, Soil	, or Hydrology	naturally probl	lematic? (I	f needed, explain any ans	wers in Remarks.)	
Hydrophic Vegotation Present?       Ves       No       X       is the Sampled Area within a Wetland?       ves       No       X         Wedand Hydrology Present?       Ves       No       X       is the Sampled Area within a Wetland?       No       X         According to the NWS Hillsboro weather station. 0.01 Inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.         Remarks:         VECETATION         Tere Statum (Ptot Size: 30 r or	SUMMARY OF FINDINGS - Attac	h site map shov	ving sampling p	oint location	is, transects, impor	tant features, e	etc.
Hydric Sci Present?         Yes         No         X         Is the Sampled Area within a Wetland?         Yes         No         X           Precipitation:         No         X         within a Wetland?         Yes         No         X           According to the NWS Hillsbore weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weeks prior.         Remarks:           VECETATION           VECETATION           The Strutum (Plot Size: 30' r or	Hydrophytic Vegetation Present?	Yes	No X				
Wetland Hydrology Present?         Yes         No         X           Procipitalion: According to the NWSH filtsboro weather station, 0.01 inches of minfail was received on the day of and 1.02 inches within the two weeks prior.           Remarks:             VECETATION             Tree Stratum (Plot Size: 30 r or)         40%         Yes         FACU         That Are OBL, FACW, or FAC:	Hydric Soil Present?	Yes	No X	Is the Samp	led Area		
Procipitation:         According to the NWS Hillsboro weather station, 0.01 inches of rainfall was received on the day of and 1.02 inches within the two weaks prior.         Remarks:         VECETATION         Tree Stratum (Plot Size: 30 r or	Wetland Hydrology Present?	Yes	No <b>X</b>	within a Wet	tland? Yes	<u> </u>	
VECETATION         Tree Stratum (Plot Size: 30 r or	Precipitation: According to the NWS Hillsboro weather stat Remarks:	ion, 0.01 inches of ra	infall was received o	n the day of and	1.02 inches within the tw	o weeks prior.	
Absolute       Dominant       Indicator       Status       Dominance Test worksheet:         1.       Acer macrophyllum       40%       Yes       FACU       Number of Dominant Species         3.	VEGETATION						
Tree Stratum (Plot Size: 30 'r or		Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
1. Acer macrophyllum       40%       Yes       FACU       That Are OBL, FACW, or FAC:	Tree Stratum (Plot Size: 30' r or )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
2.	1. Acer macrophyllum	40%	Yes	FACU	That Are OBL, FACW	, or FAC:	3 (A)
3.	2.						( )
4.	3.				Total Number of Dom	inant	
Ad0%       = Total Cover         Sapling/Shrub Stratum (Plot Size: 10' r or	4.				Species Across All St	rata:	6 (B)
Sapling/Shrub Stratum (Plot Size: 10' r or		40%	= Total Cover				<u> </u>
1.       Crataegus monogyna       30%       Yes       FAC         2.       Rubus armeniacus       15%       Yes       FAC         3.       Oemleria cerasiformis       10%       No       FACU         4.       Physocarpus capitatus       3%       No       FACU         5.       5.       58%       = Total Cover       FACU         Herb Stratum (Plot Size: 5' r or)       10%       Yes       FACU         1.       Tellina grandifora       10%       Yes       FACU         2.       Equisetum hyemale       5%       Yes       FACU         3.       Unica dioica       3%       No       FAC         4.       5       5       0       x 5 =       0         5.       5       5%       Yes       FAC       UPL species       0       x 5 =       0         6.       3%       No       FAC       UPL species       0       x 5 =       0         7.       2.       2.       Yes       FAC       Prevalence Index is \$ 5.0 <sup>1</sup> 3.2.6         10.       10.       10.       10.       10.       2.       Dominance Test is >5.0 <sup>1</sup> 3.0 <sup>1</sup> 11. <td>Sapling/Shrub Stratum (Plot Size: 10' r or</td> <td>)</td> <td>-</td> <td></td> <td>Percent of Dominant</td> <td>Species</td> <td></td>	Sapling/Shrub Stratum (Plot Size: 10' r or	)	-		Percent of Dominant	Species	
2.         Rubus ameniacus         15%         Yes         FAC           3.         Demleria cerasiformis         10%         No         FACU           4.         Physocarpus capitatus         3%         No         FACU           5.	1. Crataegus monogyna	30%	Yes	FAC	That Are OBL EACW	/ or FAC: 5	0% (Δ/B)
3.       10%       10%       10%       10%       10%       10%       10%       FACU       Total % Cover of:       Multiply by:         4.       Physocarpus capitatus       3%       No       FACU       OBL species       0       x 1 =       0         5.       5.       5.       5.       5.       6.       7. </td <td>2. Rubus armeniacus</td> <td>15%</td> <td>Yes</td> <td>FAC</td> <td>Prevalence Index w</td> <td>rksheet:</td> <td>(////</td>	2. Rubus armeniacus	15%	Yes	FAC	Prevalence Index w	rksheet:	(////
4.       Physocarpus capitatus       3%       No       FACW       OBL species       x 1 =       0         5.       58%       = Total Cover       FACW species       8 x 2 =       16         FAC species       48 x 3 =       144         FAC species       30 x 4 =       120         1.       Tellima grandillora       10%       Yes       FACU       UPL species       3 x 4 =       120         2.       Equisetum hyemale       5%       Yes       FACW       Column Totals:       86       (A)       280       (B)         4.       3%       No       FAC       Prevalence Index = B/A =       326       (B)         9.       10.       3.       No       FAC       Prevalence Index is \$3.0 <sup>1</sup> 3.26         4.       10.       11.       11.       12.       12.       13.       14.       14.         9.       10.       10%       Yes       FACU       Prevalence Index is \$3.0 <sup>1</sup> 14.       Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)       5.       15.       Yestand Nor-Vascular Plants <sup>1</sup> 10.       10%       Yes       FACU       Problematic Hydrophytic Vegetation (Explain) <sup>1</sup> 1////////////////////	3. Oemleria cerasiformis	10%	No	FACU	Total % Cover o	f: Multiply by:	
71ybocdupus cupitatus       0       10       100 </td <td>4 Physocarnus capitatus</td> <td>3%</td> <td>No</td> <td>FACW</td> <td>OBL species</td> <td>) x1=</td> <td></td>	4 Physocarnus capitatus	3%	No	FACW	OBL species	) x1=	
Image: Series of the series	5.	0/0		17.000	FACW species	x 2 =	16
Herb Stratum (Plot Size; 5' r or)       10%       Yes       FACU       FACU species       30       x 4 =       120         1.       Tellima grandiflora       10%       Yes       FACU       UPL species       0       x 5 =       0         2.       Equisetum hyemale       5%       Yes       FACU       UPL species       0       x 5 =       0         3.       Urtica dioica       3%       No       FAC       Hydrophytic Vegetation Indicators:         5.		58%	= Total Cover		FAC species 4	x 3 =	144
1. Tellina grandifora       10%       Yes       FACU       IVPL species       00       x 5 =       0         2. Equisetum hyemale       5%       Yes       FACW       Column Totals:       86       (A)       280       (B)         3. Urtica dioica       3%       No       FAC       Column Totals:       86       (A)       280       (B)         4.	Herb Stratum (Plot Size: 5' r or )				FACU species 3	5 - x 4 = -	120
1       10%       1es       14CG       0<	1 Tollima grandiflora	10%	Vec	EACU	UPL species (	x 5 =	
2. LeftiseLint rigentate       3%       No       Fes       1 ROW       Prevalence index:       00       (v)       200       (v)         3. Urtica dioica       3%       No       FAC       Prevalence index:       00       (v)       200       (v)         4.	2 Equisatum hyomala	5%	Ves	EACW/	Column Totals: 8	(A)	(B)
3.0       NO       TAC       Trobusto model E/A	3 Urtica dioica	3%	No	EAC	Prevalence Index	$\frac{S}{C} = B/A = 0$	3 26
5.	4			140	Hydrophytic Vegeta	tion Indicators:	
6.       2 - Dominance Test is >50%         7.       3 - Prevalence Index is ≤3.0 <sup>1</sup> 8.       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         10.       5 - Wetland Non-Vascular Plants <sup>1</sup> 11.       18%         12.       10%         13.       10%         14.       Hedra helix         15.       Wetland Non-Vascular Plants <sup>1</sup> Problematic Hydrophytic Vegetation (Explain) <sup>1</sup> 11.       10%         Yes       FACU         4.       Hydrophytic Vegetation (Explain) <sup>1</sup> 11.       10%         Yes       FACU         4.       Hydrophytic Vegetation (Explain) <sup>1</sup> 11.       10%         2.       10%         3.       FACU         Hydrophytic       Vegetation         Yes       No         X       Present?         Remarks:       82%	5		·		1 - Rapid Test for	Hydrophytic Veget:	ation
0.       2.       Dominance rearres 500%         7.       3.       Prevalence Index is \$3.0^1         8.	۰. 		· · · · · · · · · · · · · · · · · · ·			et is >50%	
8.	7		·			-3013 - 500%	
0.	o		·		3 - Prevalence in	Jex IS ≥3.0	ida avun autinau
9.	0		·		4 - Morphological		de supporting
10.	10		·			KS OF OFF A Separate	sileet)
11.	10.		·		5 - vveuand Non-	vascular Plants	
Moody Vine Stratum (Plot Size: 10' r or)       10%       Yes       FACU         1. Hedera helix       10%       Yes       FACU         2       10%       Total Cover       Hydrophytic         % Bare Ground in Herb Stratum       82%       Total Cover       Present?         Remarks:       Remarks:	II				Problematic Hydr	opnytic vegetation (	Explain)
1.     Hedera helix     10%     Yes     FACU       2.	Woody Vine Stratum (Diet Size: 10' r.er	18%	= Total Cover		Indicators of hydric s	oil and wetland hydi	ology must
2.	1 Hedera helix	<u>)</u> 10%	Yes	FACU	be present.		
10%     = Total Cover     Vegetation     Yes     No     X       % Bare Ground in Herb Stratum     82%     Present?	2				Hydrophytic		
% Bare Ground in Herb Stratum 82% Present?		10%	= Total Cover		Vegetation	Yes No	х
Remarks:	% Bare Ground in Herb Stratum 82%	6	-		Present?		
	Romarks.						
	Nomai No.						

Profile Description (Describ Depth (inches) Color (moi: 0-16 10YR 3/2	e to the depth ne	eded to document t				
Depth           (inches)         Color (moi           0-16         10YR 3/2	Matrix		he indicator or confirm the abse	ence of indicators	):	
(inches) Color (moi 0-16 10YR 3/2	INAULA		Redox Features			
0-16 10YR 3/2	st) %	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark
	2 100				SiL	
Type: C=Concentration, D=D	epletion, RM=Red	uced Matrix CS=Cov	ered or Coated Sand Grains.			
Location: PL=Pore Lining, M=	=Matrix.					
ydric Soil Indicators (Appli	cable to all LRRs,	unless otherwise r	ioted):	Indicators for F	Problematic Hydric So	oils <sup>3</sup> :
Histosol (A1)		Sandy Redox (	S5)	2 cm Muck	(A10)	
Histic Epipedon (A2)		Stripped Matrix	(S6)	Red Parent	Material (TF2)	
Black Histic (A3)		Loamy Mucky M	/lineral (F1) (except MLRA 1)	Very Shallo	w Dark Surface (TF12)	)
Hydrogen Sulfide (A4)		Loamy Gleyed	Matrix (F2)	Other (Expla	ain in Remarks)	
Depleted Below Dark Surf	face (A11)	Depleted Matrix	(F3)			
Thick Dark Surface (A12)		Redox Dark Su	rface (F6)	<sup>3</sup> Indicators of h	draphytic vegetation a	nd wotland
Sandy Mucky Mineral (S1	)	Depleted Dark	Surface (F7)	hydrology must	be present, unless dist	turbed or
Sandy Gleyed Matrix (S4)	1	Redox Depress	ions (F8)	problematic.	•	
Restrictive Layer (if present)	):					
Type:				Hydric Soil		
Depth (inches)				Present?	Yes	No X
IYDROLOGY						
IYDROLOGY Vetland Hydrology Indicator						
IYDROLOGY Vetland Hydrology Indicator	rs:	eck all that apply)		Secondary Indic	cators (2 or more requi	red)
IYDROLOGY Vetland Hydrology Indicator rimary Indicators (minimum c Surface Water (A1)	rs: <u>of one required; che</u>	eck all that apply) Water-Stained		Secondary Indic	ators (2 or more requi	red)
IYDROLOGY Vetland Hydrology Indicator Irimary Indicators (minimum c Surface Water (A1) High Water Table (A2)	rs: of one required; che	eck all that apply) Water-Stained 1, 2, 4A, and	 Leaves (B9) (except MLRA 4B)	<u>Secondary Indic</u> Water-Stain 4A, and 4	ators (2 or more requi ed Leaves (B9) (MLRA	red) A 1, 2,
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)	rs: one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11	 Leaves (B9) (except MLRA 4B)	<u>Secondary Indic</u> Water-Stain 4A, and 4 Drainage Pa	cators (2 or more requi ed Leaves (B9) (MLRA B) atterns (B10)	red) \ 1, 2,
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)	rs: one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte	 Leaves (B9) (except MLRA 4B) ) brates (B13)	<u>Secondary Indic</u> Water-Stain 4A, and 4 Drainage Pa Drv-Season	eators (2 or more requi ed Leaves (B9) (MLRA B) atterns (B10) Water Table (C2)	<u>red)</u> A 1, 2,
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	rs: of one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hvdrogen Sulfic	 Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1)	Secondary Indic Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V	ators (2 or more requi ed Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image	red) A 1, 2, rv (C9)
HYDROLOGY         Vetland Hydrology Indicators         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)	rs: of one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo	 Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic	ators (2 or more requined Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	rs: of one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Act	cators (2 or more requi ed Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	rs: of one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra	eators (2 or more required Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Imager Position (D2) uitard (D3)	r <u>ed)</u> A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	rs: of one required; che	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A)	Secondary Indic Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra Raised Ant	ators (2 or more requi ed Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image : Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeri	rs: of one required; che	CK all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) rduced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks)	Secondary Indic Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	eators (2 or more requi ed Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicators         Primary Indicators (minimum c         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conc:	rs: of one required; che al Imagery (B7) ave Surface (B8)	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) iduced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	eators (2 or more requined Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conce	rs: of one required; che al Imagery (B7) ave Surface (B8)	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfid Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	eators (2 or more required Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Imager Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conce	rs: of one required; che al Imagery (B7) ave Surface (B8)	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks)	Secondary Indic Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	eators (2 or more required Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Concr         Surface Water Present?	rs: <u>of one required; che</u> al Imagery (B7) ave Surface (B8) Yes	eck all that apply) Water-Stained 1, 2, 4A, and Salt Crust (B11 Aquatic Inverte Hydrogen Sulfic Oxidized Rhizo Presence of Re Recent Iron Re Stunted or Stre Other (Explain	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks) Depth (inches):	Secondary Indic Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave	cators (2 or more requined Leaves (B9) (MLRAB) atterns (B10) Water Table (C2) Visible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	red) A 1, 2, ry (C9)
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conce         Surface Water Present?         Water Table Present?	rs: of one required; che al Imagery (B7) ave Surface (B8) Yes Yes Xes X	eck all that apply)         Water-Stained         1, 2, 4A, and         Salt Crust (B11         Aquatic Inverte         Hydrogen Sulfid         Oxidized Rhizo         Presence of Re         Recent Iron Re         Stunted or Stre         Other (Explain	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) iduced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks) Depth (inches): Depth (inches):	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	cators (2 or more requined Leaves (B9) (MLRAB) atterns (B10) Water Table (C2) Visible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	red) A 1, 2, ry (C9) No <u>X</u>
HYDROLOGY         Vetland Hydrology Indicators         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conce         Surface Water Present?         Water Table Present?         Saturation Present?         Saturation Present?         Saturation Present?	rs: <u>of one required; che</u> <u>of one required; che</u> al Imagery (B7) ave Surface (B8) <u>Yes</u> <u>Yes</u> <u>X</u> Yes <u>X</u>	eck all that apply)         Water-Stained         1, 2, 4A, and         Salt Crust (B11         Aquatic Inverte         Hydrogen Sulfid         Oxidized Rhizo         Presence of Re         Recent Iron Re         Stunted or Stre         Other (Explain         No         No         No	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) duced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks) Depth (inches): Depth (inches):	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more requined Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	red) A 1, 2, ry (C9) No <u>X</u>
HYDROLOGY         Vetland Hydrology Indicators         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conce         Surface Water Present?         Water Table Present?         Saturation Present?         Saturation Present?	rs: of one required; che of one required; che al Imagery (B7) ave Surface (B8) Yes Yes Yes X Yes X	eck all that apply)         Water-Stained         1, 2, 4A, and         Salt Crust (B11         Aquatic Inverte         Hydrogen Sulfid         Oxidized Rhizo         Presence of Reserve of Reserve of Reserve of Reserve of Stunted or Stre         Other (Explain)         No         No         No         No	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) iduced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks) Depth (inches): Depth (inches): Depth (inches):	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more required Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Image Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) Hummocks (D7) Yes	red) A 1, 2, ry (C9) No X
HYDROLOGY         Vetland Hydrology Indicator         Primary Indicators (minimum of Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aeria         Sparsely Vegetated Conca         Field Observations:         Surface Water Present?         Water Table Present?         Saturation Present?	rs: <u>of one required; cha</u> <u>of one required; cha</u> al Imagery (B7) ave Surface (B8) Yes Yes Yes X Yes X Yes X ream gauge, mon	eck all that apply)         Water-Stained         1, 2, 4A, and         Salt Crust (B11         Aquatic Inverte         Hydrogen Sulfid         Oxidized Rhizo         Presence of Research Iron Re	Leaves (B9) (except MLRA 4B) ) brates (B13) de Odor (C1) spheres along Living Roots (C3) iduced Iron (C4) duction in Tilled Soils (C6) ssed Plants (D1) (LRR A) in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Metoos, previous inspections), if	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphia Shallow Aqu FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present? available:	eators (2 or more required Leaves (B9) (MLRA B) atterns (B10) Water Table (C2) /isible on Aerial Imager Position (D2) uitard (D3) Il Test (D5) Mounds (D6) (LRR A) Hummocks (D7) Yes	red) A 1, 2, ry (C9) No <u>X</u>

Project/Site: Oregon Street Busine	ess Park	City/County	y: <u>Sherwood / W</u>	/ashington	Sampling Date:	3/8/2021
Applicant/Owner: Oregon Street Bus	siness Park, LLC			State: OR	Sampling Point:	12
Investigator(s): Stacey Reed, PWS a	and Sonya Templeton	Section,	Township, Rang	ge: Sec. 28, T.2S., R.1W	., W.M.	
Landform (hillslope, terrace, etc.):	Toeslope		Local relief (c	oncave, convex, none):	Concave Slope	e (%): <3%
Subregion (LRR): A. Northwest Fore	ests and Coast L	at: 45.361094	Loi	ng: -122.823047	Datum:	
Soil Map Unit Name: Briedwe	ell stony silt loam, (Unit 5B), 0%	to 7% slopes; Nor	n-hydric	NWI c	assification:	None
Are climatic / hydrologic conditions or	the site typical for this time of	/ear?	Y	es X No	(If no, explain in F	Remarks)
Are Vegetation , Soil	, or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance	s" present? Yes	X No
Are Vegetation , Soil	, or Hydrology	naturally proble	ematic? (I	f needed, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showin	a samplina p	oint location	s. transects. impor	tant features, etc	
Hydrophytic Vegetation Present?	Yes X	No		,,		
Hydric Soil Present?	Yes X	No	Is the Samp	ed Area		
Wetland Hydrology Present?	Ves X	No	within a Wet	land? Yes y	No	
Weiland Hydrology Fresent:				103_7		<u>.</u>
Precipitation: According to the NWS Hillsboro weat	her station, 0.01 inches of rainfa	II was received on	n the day of and	1.02 inches within the two	o weeks prior.	
Remarks:						
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot Size: 30' r or	)% Cover	Species?	Status	Number of Dominant	Species	
1.				That Are OBL, FACW	or FAC: 3	(A)
2.				,,		(
3.				Total Number of Dom	inant	
4.				Species Across All St	rata: 4	(B)
					Tata. <u>+</u>	(B)
Sanling/Shrub Stratum (Plot Size: 10	'ror)			Percent of Dominant	Species	
	<u>450</u>	Mar	540		5pecies 75%	
2 Rubus armeniacus	15%	<u>res</u>	FAC	That Are OBL, FACW	, or FAC: <u>13/(</u>	(A/B)
- Rosa nutkana	5%	res	FAC	Total % Cover of	f· Multiply by:	
Crataegus monogyna	2%	No	FAC		. <u>Indupry by.</u>	
4.				OBL species (	x 1 =	0
5.				FACVV species (	x 2 =	0
	<u>22%</u> =1	otal Cover		FAC species 3	<u>3 x 3 =</u>	99
Herb Stratum (Plot Size: 5 r or				FACU species (	x 4 =	0
1. Ranunculus repens	10%	Yes	FAC	UPL species	x 5 =	25
2. Geranium molle	5%	Yes	NOL	Column Totals: 3	<sub>B</sub> (A)	124 (B)
3. Rumex crispus	1%	No	FAC	Prevalence Index	: = B/A = <u>3.</u>	<u>26</u>
4				Hydrophytic Vegeta	tion Indicators:	
5				1 - Rapid Test for	Hydrophytic Vegetatic	'n
6				X 2 - Dominance Te	est is >50%	
7				3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8.				4 - Morphological	Adaptations <sup>1</sup> (Provide	supporting
9.				data in Remar	ks or on a separate sh	eet)
10.				5 - Wetland Non-	/ascular Plants <sup>1</sup>	
11.				Problematic Hydr	ophytic Vegetation (Ex	plain) <sup>1</sup>
		otal Cover		<sup>1</sup> Indicators of hydric s	oil and wetland hydrolo	bav must
Woody Vine Stratum (Plot Size: 10' r	or )			be present.		3,
1						
2.				Hydrophytic		
	0% = 1	otal Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum	84%			Present?		
Remarks:						

Profile Description (D Depth (inches) Colo 0-8 10							Sampling Point:	12
Depth (inches) Colo 0-8 10	escribe to the c	lepth need	led to document t	he indicator or o	confirm the abse	nce of indicator	s):	
(inches) Colo 0-8 10	Matrix			Redox F	eatures			
0-8 10	or (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
10	YR 3/2	98	7.5YR 3/3	2	С	М	SiL	
8-16 10	YR 3/2	90	7.5YR 3/4	10	С	М	SiL	
<sup>1</sup> Type: C=Concentration	n, D=Depletion,	RM=Reduc	ed Matrix CS=Cov	ered or Coated S	and Grains.			
<sup>2</sup> Location: PL=Pore Lin	ing, M=Matrix.							
Hydric Soil Indicators	(Applicable to a	all LRRs, u	Inless otherwise r	noted):		Indicators for	Problematic Hydric So	ils³:
Histosol (A1)			Sandy Redox (	S5)		2 cm Muck	(A10)	
Histic Epipedon (A2	2)	-	Stripped Matrix	(S6)		Red Paren	t Material (TF2)	
Black Histic (A3)		-	Loamy Mucky I	Vineral (F1) (exce	ept MLRA 1)	Very Shall	ow Dark Surface (TF12)	
Hydrogen Sulfide (/	44)	-	Loamy Gleyed	Matrix (F2)		Other (Exp	plain in Remarks)	
Depleted Below Da	rk Surface (A11)	) –	Depleted Matrix	k (F3)				
Thick Dark Surface	(A12)	-	X Redox Dark Su	rface (F6)		3		
Sandy Mucky Mine	ral (S1)	_	Depleted Dark	Surface (F7)		Indicators of h	ydrophytic vegetation an	d wetland
Sandy Gleyed Matr	ix (S4)		Redox Depress	sions (F8)		problematic.		
Restrictive Laver (if pr	esent):							
Type:						Hvdric Soil		
Depth (inches)						Present?	Yes X	No
HYDROLOGY								
Drimoni Indiantoro (mini	licators:					Casandamilad	iantana (0 an mana na maina	
Primary Indicators (mini	mum of one requ	uirea; cnec	K all that apply)	<u> </u>		Secondary Ind	icators (2 or more require	
Surface Water (A1)		-	Water-Stained	Leaves (B9) (exc	ept MLRA	Water-Stai	ined Leaves (B9) (MLRA	1, 2,
X High Water Table (/	42)		1, 2, 4A, and	4B)		4A, and	4B)	
X Saturation (A3)		-	Salt Crust (B11	)		Drainage F	Patterns (B10)	
Water Marks (B1)		-	Aquatic Inverte	brates (B13)		Dry-Seaso	n Water Table (C2)	
Sediment Deposits	(B2)	-	Hydrogen Sulfi	de Odor (C1)		Saturation	Visible on Aerial Imagery	/ (C9)
		-	Oxidized Rhizo	spheres along Liv	ving Roots (C3)	Geomorph	ic Position (D2)	
Drift Deposits (B3)	B4)	-	Presence of Re	educed Iron (C4)		Shallow Ac	quitard (D3)	
Drift Deposits (B3) Algal Mat or Crust (			Recent Iron Re	· · · · <u>-</u> ···				
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5)		-		duction in Tilled S	Soils (C6)	FAC-Neutr	ral Test (D5)	
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks	; (B6)	-	Stunted or Stre	duction in Tilled S ssed Plants (D1)	Soils (C6) (LRR A)	FAC-Neutr Raised An	ral Test (D5) t Mounds (D6) (LRR A)	
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible c	s (B6) n Aerial Imagery	y (B7)	Stunted or Stre Other (Explain	duction in Tilled S ssed Plants (D1) in Remarks)	Soils (C6) (LRR A)	FAC-Neutr Raised An Frost-Heav	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible c Sparsely Vegetated	s (B6) in Aerial Imagery Concave Surfa	y (B7) ce (B8)	Stunted or Stre Other (Explain	duction in Tilled S ssed Plants (D1) in Remarks)	Soils (C6) (LRR A)	FAC-Neutr Raised An Frost-Heav	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible o Sparsely Vegetated Field Observations:	s (B6) in Aerial Imager Concave Surfa	y (B7) ce (B8)	Stunted or Stre Other (Explain	duction in Tilled S ssed Plants (D1) in Remarks)	Soils (C6) (LRR A)	FAC-Neutr Raised An Frost-Heav	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible c Sparsely Vegetated Field Observations: Surface Water Present	s (B6) In Aerial Imager Concave Surfar ? Yes	y (B7) ce (B8)	Stunted or Stre	duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches	Soils (C6) (LRR A)	FAC-Neutr Raised An Frost-Heav	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7)	
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible c Sparsely Vegetated Field Observations: Surface Water Present* Water Table Present?	s (B6) In Aerial Imager I Concave Surfa ? Yes Yes	y (B7) ce (B8) X	Stunted or Stre Other (Explain No X	duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches Depth (inches	Soils (C6) (LRR A) :):	FAC-Neutr Raised An Frost-Heav Wetland Hydrology	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7) <b>Yes<u>X</u></b>	No
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring	s (B6) In Aerial Imager I Concave Surfa ? Yes Yes Yes Yes 3)	y (B7) ce (B8) X X	Stunted or Stre Other (Explain No No No	duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) :): :): :):7"	FAC-Neutr Raised An Frost-Heav Wetland Hydrology Present?	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	No
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible c Sparsely Vegetatec Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring) Describe Recorded Data	s (B6) In Aerial Imager I Concave Surfa ? Yes Yes Yes 9) ata (stream gau	y (B7) ce (B8) X X yge, monite	Stunted or Stre Other (Explain No X No No Oring well, aerial p	duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A)	FAC-Neutr Raised An Frost-Heav Wetland Hydrology Present? available:	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	No
Drift Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Inundation Visible c Sparsely Vegetatec Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring) Describe Recorded Data Remarks:	s (B6) In Aerial Imager I Concave Surfa ? Yes Yes Yes e) ata (stream gau	y (B7) ce (B8) X X yge, monite	Stunted or Stre Other (Explain No X No No Oring well, aerial p	duction in Tilled S ssed Plants (D1) in Remarks) Depth (inches Depth (inches Depth (inches	Soils (C6) (LRR A) :): :):7" :s inspections), if	FAC-Neutr Raised An Frost-Heav Wetland Hydrology Present? available:	ral Test (D5) t Mounds (D6) (LRR A) ve Hummocks (D7) y Yes X	No

Applicant/Owner: Oregon Street Business						
Applicant/Owner. Oregon offeet Dusiness	Park, LLC			State: OR	Sampling Po	int: <b>13</b>
Investigator(s): Stacey Reed, PWS and Sc	onya Templeton	Section,	Township, Rang	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslope, terrace, etc.): Toesle	ре		Local relief (co	oncave, convex, none):	Concave S	lope (%): <u>&lt;3%</u>
Subregion (LRR): A. Northwest Forests an	ld Coast	at: 45.360908	Lor	ng: -122.823274	Datum:	
Soil Map Unit Name: Briedwell stor	ny silt loam, (Unit 5B), 0%	to 7% slopes; No	n-hydric	NWI c	lassification:	None
Are climatic / hydrologic conditions on the s	ite typical for this time of	year?	Ye	es <u>X</u> No	(If no, explain	in Remarks)
Are Vegetation, Soil	, or Hydrology	significantly di	sturbed? A	re "Normal Circumstance	es" present?	Yes X No
Are Vegetation, Soil	, or Hydrology	naturally probl	ematic? (l	f needed, explain any an	swers in Remarks.)	
SUMMARY OF FINDINGS - Atta	ch site map showir	ng sampling p	oint location	is, transects, impo	rtant features,	etc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Sampl	led Area		
Wetland Hydrology Present?	Yes X	No	within a Wet	land? Yes X	K No	
Precipitation: According to the NWS Hillsboro weather sta Remarks:	ation, 0.01 inches of rainf	all was received or	n the day of and	1.02 inches within the tw	o weeks prior.	
VEGETATION						
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
1	<u>% Cover</u>	Species?	Status	Number of Dominant	Species	
2				That Are OBL, FACM	/, or FAC:	(A)
3						
				Total Number of Dom	ninant	
4.				Species Across All S	trata:	4 (B)
	=	Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or	)			Percent of Dominant	Species	
1.				That Are OBL, FACW	/, or FAC: <u>1</u>	<u>00%</u> (A/B)
2.				Prevalence Index w	orksheet:	
3.				I otal % Cover o	t: <u>Multiply by:</u>	
4				OBL species (	) x 1 =	0
5				FACW species	) x 2 =	0
	0% =	Total Cover		FAC species g	5 x 3 =	285
Herb Stratum (Plot Size: 5' r or )				FACU species	2 x 4 =	8
1. Alopecurus pratensis	40%	Yes	FAC	UPL species	) x 5 =	0
2. Agrostis species	20%	Yes	FAC*	Column Totals: g	7 (A)	293 (B)
3. Ranunculus repens	20%	Yes	FAC	Prevalence Index	k = B/A =	<u>3.02</u>
4. Schedonorus arundinaceus	10%	Yes	FAC	Hydrophytic Vegeta	tion Indicators:	
5. Rumex crispus	3%	No	FAC	1 - Rapid Test for	r Hydrophytic Veget	ation
6. Trifolium repens	2%	No	FAC	X 2 - Dominance T	est is >50%	
7. Daucus carota	1%	No	FACU	3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8. Taraxacum officinale	1%	No	FACU	4 - Morphologica	Adaptations <sup>1</sup> (Prov	/ide supporting
9.				data in Remar	ks or on a separate	e sheet)
10.				5 - Wetland Non-	Vascular Plants <sup>1</sup>	
11.				Problematic Hydr	ophytic Vegetation	(Explain) <sup>1</sup>
Woody Vine Stratum (Plot Size: 10' r or	97% =	Total Cover		<sup>1</sup> Indicators of hydric s be present.	soil and wetland hyd	Irology must
1				l brains - brait -		
Z				Hydrophytic		
% Bare Ground in Herb Stratum 3	<u> </u>	Total Cover		Present?	105 <u>NO</u>	
Remarks: *Assumed FAC.						

Profile Description (Description (Descri	SOIL							Sampling Point:	13
Dep/ Outsmip         Matrix         Fedor Features           0x01mes)         Coder (mode)         %         Coder         Loc <sup>2</sup> M         St.           0x10         10YR 32         95         7.5YR 430         5         C         M         St.         M         St.           10x18         10YR 411         95         7.5YR 430         5         C         M         StC.         StC.         M         StC.         StC.         M         StC.         StC.         M         StC.         StC.         StC.         StC.         StC.	Profile Descrip	otion (Descri	be to the depth n	eeded to document t	the indicator or	confirm the abs	ence of indicator	s):	
(in the second	Depth		Matrix		Redox I	eatures			
0-10         10YR 3/2         95         C         M         Sit           10-16         10YR 4/1         05         7.5YR 4/6         5         C         M         SIC           10-16         10YR 4/1         05         7.5YR 4/6         5         C         M         SIC           10-16         10YR 4/1         05         7.5YR 4/6         5         C         M         SIC           10-16         10YR 4/1         05         7.5YR 4/6         5         C         M         SIC           10-16         10YR 4/1         05         7.5YR 4/6         5         C         M         SIC           10-16         10YR 4/1         05         7.5YR 4/6         5         C         M         SIC           10-17         10/16<	(inches)	Color (mo	vist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
10-16         10/TR 4/1         95         7.5/TR 4/6         5         C         M         SICI           ""Type:	0-10	10YR 3/	2 95	7.5YR 3/3	5	С	Μ	SiL	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains."         "Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains."         "Hatcal (A1)       Sandy Redux (S5)         Hatcal (A1)       Stripped Matrix (S6)         Black Hats (A2)       Learnor (F2)         Depletion Routing (S1)       Depleted Matrix (S7)         Trick Dark Surface (A1)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)         Sandy Undey Mineral (S1)       Depleted Matrix (F3)         Trick Dark Surface (A12)       Redox Depressions (F8)         Paptient Below Dark (S1)       Depleted Dark Surface (F7)         Sandy Undey Mineral (S1)       Depleted Dark Surface (F7)         Prime:       Present?         Verg	10-16	10YR 4/	/1 95	7.5YR 4/6	5	С	M	SiCl	
Type:       C=Concentration, D=Depkelion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Type:       C=Concentration, D=Depkelion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Loadic:::       Platic Explain in Remarks:         Hetaco (A1)       Sandy Medix (S5)         Black Hulio (A3)       Loarny Mucky Mineral (F1) (scoept MLRA 1)         Users Sandy Medix (A4)       Loarny Mucky Mineral (F1)         Depleted Balow Dark Surface (A11)       X Depleted Matrix (F2)         Thick Dark Surface (A11)       X Depleted Matrix (F2)         Thick Dark Surface (A12)       X Redox Dark Surface (F2)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F2)         Thick Dark Surface (A12)       X Redox Depressions (F8)         Protection       Protection         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F2)         Protection       Protection         Protection       And A11         Sandy Mucky Mineral (S1)       Sandy Core (S1)         Peptier Indicators (Matrix (S4)       Sandy Core (S1)         Sandy Mucky Matrix (S4)       Retroct State Lavers (B9) (except MLRA 1, 2, 4, and 41)         Sandy Mucky Matrix (S1)       Aquatic Invortibutes (S13)         Sandy Mucky (S1)       Aquatic Invortibutes (S13)         Sandy Mucky (S13)       Gastarce Relaxe									
Type: C=Concentration, D=Depletion, RM+Reduced Matrix CS=Covered or Coated Sand Grains.         Location: PL=Fore Lineing, M-Matrix.         Hydric Soll Indicators (Applicable to all LRRs, unless otherwise noted):         Histosol (A1)		. <u></u>							
''Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         ''Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         ''Histo: Epiped ining, M=Matrix.         ''Histo: Epiped ining, M=Matrix.         ''Histo: Epiped ining, M=Matrix.         ''Histo: Epiped ining, M=Matrix.         ''Histo: Epipedon (A2)       Simped Matrix (S5)         Black Hells (A3)       Learny Mucky Mineral (F1) (except MLRA 1)         Hydrogen Sulface (A1)       X Depleted Matrix (F2)         Other (Explain Carbox Dark Surface (F12)         Sandy Mucry (Mineral (S1)       Depleted Dark Surface (F8)         ''Sandy Olayoy must be present):       ''Indicators of hydrophytic vegetation and wetland hydrology must be present):         ''Type:       Hydric Soil         Persent?       Y es X       No         Depleted Dark Surface (A12)       ''I. 4. An ard 8)         ''Yree:       Y escent?       No         ''Yree:       ''Indicators (Innimum of one required: check all that apply)'       Secondary Indicators (2 or more required)         ''Yree:       ''I. 4. An ard 8)       ''Indicators (10)       ''Indicators (2 or more required)         ''Yree:       ''I. 4. An ard 8)       ''Indicators (11)       ''Indicators (12)       ''Indicators (12)         ''Yree:       ''I. 4		. <u></u>							
Type: C=Concentration. D=Depketion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Type: C=Concentration. D=Depketion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         Histesci (A1)       Sandy Redox (S5)         Histesci (A1)       Sandy Redox (S5)         Histesci (A3)       Learny (Bixeyd Matrix (S6)         Black Hist (A3)       Learny (Bixeyd Matrix (S6)         Depleted Down X surface (A1)       X Depleted Matrix (F2)         Ober (Explain in Remarks)       Other (Explain in Remarks)         Sandy (Bixeyd Matrix (S1)       Depleted Matrix (S7)         Sandy (Bixeyd Matrix (S1)       Depleted Matrix (S2)         Sendy Muxey Mineral (S1)       Depleted Matrix (S4)         Person (Matrix (S4)       Redox Dapressions (F8)         Yroe:       Present?       Yes X         Depht (Indicators (Indicators 2)       Redox Dapressions (F8)         Yroe:       Present?       Yes X       No         Surface Water (A1)       Quater Statined Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4, and 4B)         X High Water Table (A2)       1, 2, 4, and 4B)       Oralinge Patterns (B1)       Ory-Season Water Table (C2)         Surface Water (A1)       Saturation Water Static (C2)       Saturation Water Static (C2)       Saturation Water Static (C2)       Saturation Value A and 4B)					·				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.         *Location: R1=Pore Lining, M=Matrix.         *Histoaci (A1)					·				
Type: C-concentration, D-Depletion, RM-Reduced Matrix CS=Covered or Coated Sand Grains.       Indicators (Applicable to all LRRs, unless otherwise notod):       Indicators (Applicable to all LRRs, unless otherwise notod):       Indicators for Problematic Hydric Soils*:         Histo: Epipedon (X2)       Sandy Redox (S5)		·							
Cudation: 1 = You building, memative.         Yindf: Soli Indicators (Applicable to all LRRs, unless otherwise noted):         Histosci (A1)	<sup>1</sup> Type: C=Conce <sup>2</sup> Location: PL=P	entration, D=I	Depletion, RM=Re	duced Matrix CS=Cov	vered or Coated S	Sand Grains.			
Histosof (A1)	Hvdric Soil Indi	icators (App	licable to all LRR	s. unless otherwise i	noted):		Indicators for	Problematic Hydric So	oils <sup>3</sup> .
Instactor (A1)				Sandy Bodoy (	(25)		2 om Muel	(A10)	
Instact Explored (V2)	Histosol (A1	$(\Lambda 2)$		Sanuy Redux (	(33)		2 cill Much	x (ATU)	
Deak Insec (VS)	Block Histic	(A2)			( (30) Minoral (E1) (ava	opt MLRA 1)		it Material (TF2)	
Type:     Depicted Below Dark Surface (A1)     Sandy Mucky Mineral (S1)     Sandy Glaved Matrix (F3)     Trick Dark Surface (A12)     Sandy Mucky Mineral (S1)     Depicted Dark Surface (F7)     Sandy Mucky Mineral (S1)     Depicted Dark Surface (F7)     Sandy Glaved Matrix (S4)     Redox Depressions (F8)     Problematic.  Restrictive Layer (if present):     Type:     Depit (inches):     Present?     Yes X No     Present?     Yes X No     Present?     Yes X No     Present?     Yes X No     Present?     Secondary Indicators (2 or more required)     Surface Water (A1)     Sait Crust (B1)     Sait Crust (B1)     Sait Crust (B1)     Presence of Reduced Into (C4)     Sait Crust (B1)     Presence of Reduced Into (C4)     Salt Crust (B1)     Presence of Reduced Into (C4)     Salt Crust (B1)     Orint Deposits (B5)     Surface Water (A1)     Surface Water (A1)     Surface Water (B2)     Matrix (B1)     Presence of Reduced Into (C4)     Salt Crust (B1)     Presence of Reduced Into (C4)     Salt Crust (B1)     Other Deposits (B5)     Surface Water (C4)     Salt Crust (B1)     Drint Deposits (B2)     Metric Marks (B1)     Oxidized Rhizospheres along Living Roots (C3)     Geomorphic Position (D2)     Shallow Aquitaria (C3)     FAC-Neutral Test (C5)     Surface Water Resent?     Yes X No     Depth (inches):     Burder Table (Present? Yes X No     Depth (inches):     Burder Nate Present? Yes X No     Depth (inches):     Burder Marker Present? Yes X No     Depth (inches):     Burder Marker Present? Yes X No     Depth (inches):     Burder Water Rate Present?     Yes X No     Depth (inches):     Burder Water Rate Present?     Yes X No     Depth (inches):     Burder Water Rate Present?     Yes X No     Depth (inches):     Burder Water Rate Present?     Yes X No     Depth (inches):     Burder Water Rate Present?     Yes X No     Depth (inches):     Burder Rate Present?     Yes X No     Depth (inches):     Burder		ulfido (A4)			Motrix (E2)		Very Shan	ow Dark Surface (TFTZ)	
Leptende betwit bar Sahabe (NT)	Doploted Bo	olow Dark Su	$f_{000}(\Lambda 11)$	Loaniy Gleyed	waux (F2)				
In the San dy Muchy Mineral (S1)       Image: Sandy Muchy Mineral (S1)       Depleted Dark Surface (F7)       Participation and wetland hydrology multice separation and wetland hydrology multice separation and wetland hydrology multices for hydrophylice vegetation and wetland hydrology for hydrophylice vegetation and wetland hydrology multices for hydrophylice vegetation and wetland hydrology multices for hydrophylice vegetation and wetland hydrology for hydrophylice vegetation and wetland hydrophylice vegetation and wetland hydrology for hydrophylice vegetation and wetland hydrophylice vegetation and wetland hydrology for hydrophylice vegetating for hydrophylice vegetating for hydrophylice vegetat	Depleted Be	Surface (A12)		X Redox Dark Si	x (I 3) urface (E6)				
	Sandy Muck	ky Mineral (S	1)		Surface (F7)		<sup>3</sup> Indicators of h	nydrophytic vegetation a	nd wetland
	Sandy Glev	ed Matrix (S4	.)	Beday Depress	sions (F8)		hydrology mus	st be present, unless dist	turbed or
Restrictive Layer (if present):       Type:       Hydric Soil         Depth (inches):			)				problematio.		
Hydric Soil         Depth (inches):       Yes       X       No         Remarks:	Restrictive Lay	er (if presen	t):						
Depth (inches):       Present?       Yes       X       No         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         X       High Water Table (A2)       1, 2, 4A, and 4B)       Water-Stained Leaves (B1)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfde Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced tron (C4)       Shallow Aquitard (D3)         Iton Deposits (B5)       Recent Iron Reduction in Tilled Solis (C6)       FAC-Neutral Test (D5)         Sturface Soli Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Saturation Present?       Yes       X       No	Тур	be:					Hydric Soil		
Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)	Depth (inches)	):					Present?	Yes X	NO
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)									
Primary Indicators.         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)	HYDROLOG	iY Iogy Indicate							
Finderators       Surface Water (A1)			л <b>ь.</b> of one required; ob	and all that apply)			Secondary Ind	liaatara (2 ar mara raqui	rod)
Sufface Water (A1)	Primary Indicato	ors (minimum	oi one requirea; cr	neck all that apply)			Secondary Ind	incators (2 or more requi	rea)
X       High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         X       Saturation (A3)      Salt Crust (B1))      Drainage Patterns (B10)         Water Marks (B1)      Aquatic Invertebrates (B13)      Dry-Season Water Table (C2)         Sediment Deposits (B2)      Hydrogen Sulfide Odor (C1)      Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)      Oxidized Rhizospheres along Living Roots (C3)      Geomorphic Position (D2)        Algal Mat or Crust (B4)      Presence of Reduced Iron (C4)      Shallow Aquitard (D3)        Iron Deposits (B5)      Recent Iron Reduction in Tilled Soils (C6)	Surface Wa	iter (A1)		Water-Stained	Leaves (B9) (exc	cept MLRA	Water-Sta	ined Leaves (B9) (MLRA	A 1, 2,
X       Saturation (A3)	X High Water	Table (A2)		1, 2, 4A, and	1 4B)		4A, and	4B)	
water Matrix (c1)       Aquatic invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Sturface Water Present?       Yes       X       No         Saturation Present?       Yes       X       Depth (inches):       8"       Hydrology       Yes       X       No         Saturation Present?       Yes       X       No       Depth (inches):       8"       Present?       No	X Saturation (	A3)		Salt Crust (B11	I)		Drainage I	Patterns (B10)	
Sediment Deposits (B2)       Hydrogen Sulinde Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Stunted or Depth (inches):       8"         Field Observations:       No       Depth (inches):       8"         Saturation Present?       Yes       X       No       Depth (inches):         Saturation Present?       Yes       X       No       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Present?       No         Remarks:       Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.       1 hour.		S(BI)		Aquatic Inverte	ebrates (B13)		Dry-Seaso	on Water Table (C2)	(00)
Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Wetland         Water Table Present?       Yes       X       Depth (inches):       8"         Saturation Present?       Yes       X       Depth (inches):       9"         Includes capillary fringe)       No       Depth (inches):       Surface       Yes       X       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Present?       No	Sediment D			Hydrogen Sulfi	de Odor (C1)		Saturation	VISIBLE ON AERIAL IMAGE	ry (C9)
Aigal Mat or Crust (B4)      Presence or Reduced iron (C4)      Shallow Aduitard (D3)         Iron Deposits (B5)		IIS (B3)			spheres along Li	Ving Roots (C3)	Geomorpr	nic Position (D2)	
Iron Deposits (B5)	Algai Mat or	r Crust (B4)		Presence of Re	educed Iron (C4)			quitard (D3)	
Surface Soli Clacks (b)	Iron Deposit	IS (BD) I Creeke (BG)		Recent from Re	eauction in Tillea		FAC-Neul	t Moundo (D6) (LDD A)	
Indidation visible on Aerian imagery (B7)       Other (Explain in Remarks)       Prost-Reave Ruminocks (D7)         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Wetland         Surface Water Present?       Yes       No       Depth (inches):       8"         Water Table Present?       Yes       X       No       Depth (inches):       8"         Saturation Present?       Yes       X       No       Depth (inches):       Surface         Includes capillary fringe)       Present?       Yes       X       No       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.	Surface Soli	Visible on Asy	ial Imagan (PZ)	Stunted of Stre	in Demorke)			(D0)(LRRA)	
Sparsely vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Yes       X       No         Water Table Present?       Yes       X         Yes       X       No         Saturation Present?       Yes       X         Yes       X       No         Depth (inches):       8"         Hydrology       Yes       X         No       Depth (inches):       Surface         Present?       Yes       X         Includes capillary fringe)       Depth (inches):       Surface         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:         Remarks:       Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.		VISIDIE ON AEI	al imagery (B7)	Other (Explain	in Remarks)		Frost-Hear	ve Hummocks (D7)	
Field Observations:       No       X       Depth (inches):       Wetland         Surface Water Present?       Yes       X       No       Depth (inches):       8"       Hydrology       Yes       X       No       Present?         Saturation Present?       Yes       X       No       Depth (inches):       Surface       Present?       Yes       X       No       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.	Sparsely ve		cave Surface (Bo)						
Surface Water Present?       Yes       No       X       Depth (inches):       Wetland         Water Table Present?       Yes       X       No       Depth (inches):       8"       Hydrology       Yes       X       No	Field Observati	ions:							
Water Table Present?       Yes       X       No       Depth (inches):       8"       Hydrology       Yes       X       No         Saturation Present?       Yes       X       No       Depth (inches):       Surface       Present?       Present?         Includes capillary fringe)       Depth (inches):       Surface       Present?       No       Image: Surface       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Image: Surface       Image	Surface Water F	Present?	Yes	NoX	Depth (inches	s):	Wetland		
Saturation Present?       Yes X No Depth (inches): Surface       Present?         (includes capillary fringe)       Depth (inches): Surface       Present?         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:         Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.       Present?	vvater Table Pre	esent?	Yes X	No	Depth (inches	s): <u>8"</u>	Hydrolog	y Yes <u>X</u>	No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.	Saturation Pres (includes capilla	ent? ary fringe)	Yes <u>X</u>	No	Depth (inches	s): <u>Surface</u>	Present?		
Remarks: Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.	Describe Reco	orded Data (s	tream gauge, mo	nitoring well, aerial p	photos, previou	s inspections), i	f available:		
Hydrology driven by surface water from upslope seeps. Pit left open approximately 1 hour.	Domerko								
	Remarks: Hydrology driver	n by surface v	vater from unslone	seeps. Pit left open a	approximately 1 h	our.			

Project/Site: Oregon Street Business F	Park	City/Count	ty: Sherwood / W	/ashington	Sampling Date:	3/8/2021
Applicant/Owner: Oregon Street Busines	s Park, LLC			State: OR	Sampling Poir	nt: <b>14</b>
Investigator(s): Stacey Reed, PWS and S	onya Templeton	Section	, Township, Rang	ge: <u>Sec. 28, T.2S., R.1W</u>	., W.M.	
Landform (hillslope, terrace, etc.): Toes	lope		Local relief (c	oncave, convex, none):	Convex Slo	ope (%): <3%
Subregion (LRR): A. Northwest Forests a	Ind Coast	_at: 45.360956	Loi	ng: -122.823328	Datum:	
Soil Map Unit Name: Briedwell sto	ony silt loam, (Unit 5B), 0%	6 to 7% slopes; No	on-hydric	NWI c	lassification:	None
Are climatic / hydrologic conditions on the	site typical for this time of	year?	Y	es X No	(If no, explain i	n Remarks)
Are Vegetation, Soil	, or Hydrology	significantly d	isturbed? A	re "Normal Circumstance	es" present? Ye	es <u>X</u> No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (l	f needed, explain any an	swers in Remarks.)	
SUMMARY OF FINDINGS – Atta	ach site map showir	ng sampling p	oint location	is, transects, impo	rtant features, e	tc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes	No <u>X</u>	Is the Samp	led Area		
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	lland? Yes	<u>No X</u>	_
Precipitation: According to the NWS Hillsboro weather s Remarks:	tation, 0.01 inches of rainf	all was received o	n the day of and	1.02 inches within the tw	o weeks prior.	
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot Size: 30' r or)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1				That Are OBL, FACW	/, or FAC:	5 (A)
2						
3.				Total Number of Dom	inant	
4.				Species Across All St	rata:	<u>8</u> (B)
	0% =	Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or	)			Percent of Dominant	Species	
1. Crataegus monogyna	15%	Yes	FAC	That Are OBL, FACW	/, or FAC: <u>83</u>	<u>3%</u> (A/B)
<sup>2.</sup> Rosa nutkana	10%	Yes	FAC	Prevalence Index w	orksheet:	
3.				Total % Cover o	f: Multiply by:	
4.				OBL species (	) x 1 =	0
5				FACW species (	) x 2 =	0
	25% =	Total Cover		FAC species 10	)3 x 3 =	309
Herb Stratum (Plot Size: 5' r or )				FACU species 2	3 x 4 =	92
1. Schedonorus arundinaceus	30%	Yes	FAC	UPL species (	) x 5 =	0
2. Agrostis species	20%	Yes	FAC*	Column Totals: 12	26 (A)	<u>401</u> (B)
3. Poa species	20%	Yes	FAC*	Prevalence Index	c = B/A =	<u>3.18</u>
4. Hypochaeris radicata	10%	Yes	FACU	Hydrophytic Vegeta	tion Indicators:	
5. Taraxacum officinale	5%	No	FACU	1 - Rapid Test for	· Hydrophytic Vegeta	tion
6. Ranunculus repens	5%	No	FAC	X 2 - Dominance Te	est is >50%	
7. Leucanthemum vulgare	5%	No	FACU	3 - Prevalence In	dex is ≤3.0 <sup>1</sup>	
8. Trifolium repens	3%	No	FAC	4 - Morphological	Adaptations <sup>1</sup> (Provi	de supporting
9. Daucus carota	3%	No	FACU	data in Remar	ks or on a separate	sheet)
10				5 - Wetland Non-	Vascular Plants <sup>1</sup>	4
11				Problematic Hydr	ophytic Vegetation (I	Explain)'
Woody Vine Stratum (Plot Size: 10' r or	<u> </u>	Total Cover		Indicators of hydric s	oil and wetland hydr	ology must
1.				Uvdrophytic.		
<u>ــــــــــــــــــــــــــــــــــــ</u>		Total Cover		Vegetation	Yes X No	
% Bare Ground in Herb Stratum	<u> </u>			Present?		
Remarks: Assumed FAC.						

Profile Description (           Depth           (inches)         Cc           0-12         1           12-16         1						Sampling Point:	14	
Depth           (inches)         Cc           0-12         1           12-16         1	Describe to the dep	th needed to document the	e indicator or con	firm the abse	ence of indicators)	:		
(inches)         Cc           0-12         1           12-16         1	Matrix		Redox Feat	ures				
0-12 1 12-16 1	olor (moist) %	6 Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
12-16 1	I0YR 3/2 9	8 7.5YR 3/4	2	С	M	SiL		
	I0YR 4/1 9	9 7.5YR 4/6	1	С	M	SiL		
<u> </u>								
<sup>1</sup> Type: C=Concentration <sup>2</sup> Location: PL=Pore Li	on, D=Depletion, RM ining, M=Matrix.	Reduced Matrix CS=Cover	ed or Coated Sand	l Grains.				
Hydric Soil Indicator	s (Applicable to all L	RRs, unless otherwise no	ted):		Indicators for P	Problematic Hydric S	oils <sup>3</sup> :	
Histosol (A1)		Sandy Redox (S	5)		2 cm Muck (	A10)		
Histic Epipedon (/	42)	Stripped Matrix (	56)		2 ent Maek (	Material (TE2)		
Black Histic (A3)	(12)	L oamv Mucky Mi	neral (F1) (except	MI RA 1)	Very Shallov	w Dark Surface (TF12	)	
Hvdrogen Sulfide	(A4)	Loamy Gleved M	atrix (F2)		Other (Expla	ain in Remarks)	/	
Depleted Below D	ark Surface (A11)	Depleted Matrix (	F3)					
Thick Dark Surfac	æ (A12)	Redox Dark Surf	ace (F6)					
Sandy Mucky Min	eral (S1)	Depleted Dark S	and Dark Surface (F0) <sup>3</sup> Indicators of hy			nydrophytic vegetation and wetland		
Sandy Gleved Ma	itrix (S4)	Redox Depressio	Redox Depressions (F8) problematic.			be present, unless dis	luibed of	
Restrictive Laver (if I	present):							
Type	Jiesenty.				Hydric Soil			
Depth (inches):					Prosont?	Voc	No X	
					110001111		<u> </u>	
HYDROLOGY								
Wetland Hydrology II	ndicators:							
Primary Indicators (mi	nimum of one require	d; check all that apply)			Secondary Indic	ators (2 or more requ	ired)	
Surface Water (A	1)	Water-Stained Le	Water-Stained Leaves (B9) (except MLRA			Water-Stained Leaves (B9) (MLRA 1, 2,		
High Water Table	(A2)	1, 2, 4A, and 4	1, 2, 4A, and 4B)			B)		
Saturation (A3)		Salt Crust (B11)	Salt Crust (B11)			atterns (B10)		
Water Marks (B1)		Aquatic Invertebr	Aquatic Invertebrates (B13)			Water Table (C2)		
Sediment Deposit	s (B2)	Hydrogen Sulfide	Odor (C1)		Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3	)		Oxidized Rnizospheres along Living Roots (C3)			Position (D2)		
Algal Mat or Crust	t (B4)	Presence of Red	Presence of Reduced Iron (C4)			litard (D3)		
	Iron Deposits (B5) Recent Iron Re			on Reduction in Tilled Soils (C6) FAC-Neutra			trai Test (D5)	
Iron Deposits (B5)	KS (BO)	<ul> <li>Stunted or Stress</li> <li>Other (Evaluin in</li> </ul>	Bemarka	(R A)		viounas (D6) (LRR A)		
Iron Deposits (B5) Surface Soil Crack	Inundation Visible on Aerial Imagery (B7)Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)					HUMMOCKS (D7)		
Iron Deposits (B5) Surface Soil Craci Inundation Visible Sparsely Vegetate	ed Concave Surface (							
Iron Deposits (B5, Surface Soil Crack Inundation Visible Sparsely Vegetate Field Observations:	ed Concave Surface (							
Iron Deposits (B5 Surface Soil Craci Inundation Visible Sparsely Vegetate Field Observations: Surface Water Preser	ed Concave Surface ( nt? Yes	No X	Depth (inches):		Wetland			
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## Appendix E: Photo Location Map and Site Photographs





**Photo A.** View north of wetland Plot 1 with Wetland A boundary and upland Plot 2.



**Photo B.** View southeast of upland Plot 2 and Wetland A boundary.



**Photo C.** View facing south of upland Plot 3 towards Wetland A.



Photo D. View north of Wetland A.

Oregon Street Business Park, Sherwood, OR Representative Photos | AKS Job #7971





Photo E. View north of wetland A boundary and wetland Plots4 and 12 with upland Plots 5 and 7 at a higher elevation thanthe wetland.



**Photo G.** View south from the northwestern corner of the site towards Wetland A. Shows the site slopes gradually towards the wetland and no roadside ditches.



**Photo F.** View facing north from Wetland A towards wetland Plot 13 and upland Plots 6, 5, and 14. Photo shows are were wetland was paraàlly filled under WD2000-0488 and slopes gradually higher into the wetland.



Photo H. View northeast of upland field within study area.





Photo I. View east of upland Plot 10.



**Photo J.** View of culvert under SW Tonquin Road within Wetland A.



**Photo K.** View facing west of Wetland B on the west side of SW Tonquin Road in area of wetland enhancement and excavaon of depressional area per DSL RF-24010.



**Photo L.** View facing west of Wetland B on the north side of SW Oregon Street.



ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

SCALE: 1"=60 FEET

0 12 30 ORIGINAL PAGE SIZE: 11" x 17"

60

60

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.







## Exhibit F: Ownership Information



First American

121 SW Morrison Street, Suite 300 Portland, OR 97204 Phn - (503)222-3651 (800)929-3651 Fax - (877)242-3513

#### PUBLIC RECORD REPORT FOR NEW SUBDIVISION OR LAND PARTITION

THIS REPORT IS ISSUED BY THE ABOVE-NAMED COMPANY ("THE COMPANY") FOR THE EXCLUSIVE USE OF:

AKS Engineering & Forestry LLC 12965 SW Herman RD STE 100 Tualatin, OR 97062 Phone: (503)563-6151 Fax: (503)563-6152

Date Prepared: March 02, 2020Effective Date: 8:00 A.M on February 21, 2020Order No.: 7019-3402741Subdivision:

The information contained in this report is furnished by First American Title Insurance Company (the "Company") as an information service based on the records and indices maintained by the Company for the county identified below. This report is not title insurance, is not a preliminary title report for title insurance, and is not a commitment for title insurance. No examination has been made of the Company's records, other than as specifically set forth in this report. Liability for any loss arising from errors and/or omissions is limited to the lesser of the fee paid or the actual loss to the Customer, and the Company will have no greater liability by reason of this report. This report is subject to the Definitions, Conditions and Stipulations contained in it.

#### REPORT

A. The Land referred to in this report is located in the County of Washington, State of Oregon, and is described as follows:

As fully set forth on Exhibit "A" attached hereto and by this reference made a part hereof.

B. As of the Effective Date, the tax account and map references pertinent to the Land are as follows:

As fully set forth on Exhibit "A" attached hereto and by this reference made a part hereof.

C. As of the Effective Date and according to the Public Records, we find title to the land apparently vested in:

As fully set forth on Exhibit "B" attached hereto and by this reference made a part hereof

D. As of the Effective Date and according to the Public Records, the Land is subject to the following liens and encumbrances, which are not necessarily shown in the order of priority:

As fully set forth on Exhibit "C" attached hereto and by this reference made a part hereof.

#### EXHIBIT "A" (Land Description Map Tax and Account)

THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON.

EXCEPTING THEREFROM THAT TRACT CONVEYED TO JOHN CAMPBELL BY DEED RECORDED IN BOOK 56, PAGE 232, WASHINGTON COUNTY, OREGON, WHICH TRACT IS DESCRIBED AS FOLLOWS:

PART OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON. BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 28, AND THENCE NORTH ON THE WEST SECTION LINE 16.41 CHAINS TO THE CENTER OF THE DITCH; THENCE UP SAID DITCH SOUTH 21° 1/2" EAST 7.92 CHAINS AND SOUTH 26° EAST 10.01 CHAINS TO THE SOUTH LINE OF SAID SECTION 28; THENCE WEST ON SAID LINE 7.32 CHAINS TO THE POINT OF BEGINNING.

ALSO EXCEPTING THEREFROM PART OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE SOUTH 0° 08' 14" EAST ALONG THE WEST LINE OF SAID SECTION 28, 241.02 FEET TO THE MOST NORTHERLY POINT OF THAT PARCEL DEEDED BY P.P. BAILEY AND WIFE TO JOHN CAMPBELL, RECORDED BY DEED DATED MARCH 9, 1901, RECORDED MARCH 26, 1901, IN BOOK 56, PAGE 232, OF WASHINGTON COUNTY DEED RECORDS, SAID POINT ALSO BEING IN THE CENTER OF A DITCH DESCRIBED IN SAID BAILEY DEED; THENCE SOUTH 21° 43' 30" EAST FOLLOWING SAID DITCH CENTERLINE 523.00 FEET (522.72 DEED); THENCE CONTINUING ALONG SAID DITCH CENTERLINE SOUTH 26° 13' 30" EAST 530.95 FEET TO THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 492; THENCE NORTH 45° 19' EAST ALONG SAID COUNTY ROAD RIGHT OF WAY LINE 664.92 FEET; THENCE CONTINUING ALONG SAID COUNTY ROAD RIGHT OF WAY LINE NORTH 38° 09' 44" EAST 723.79 FEET TO THE EAST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE NORTH 0° 08' 44" WEST ALONG SAID EAST LINE OF THE SOUTHWEST ONE-OUARTER OF THE SOUTHWEST ONE-OUARTER OF SECTION 28, 218.67 FEET TO A STONE AND THE NORTHEAST CORNER THEREOF; THENCE SOUTH 89° 52' 44" WEST ALONG THE NORTH LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28, 1309.43 FEET TO THE POINT OF BEGINNING.

AND FURTHER EXCEPTING A PART OF THE SOUTHWEST ONE-QUARTER OF SECTION 28, TOWNSHIP 2 SOUTH, RANGE 1 WEST OF THE WILLAMETTE MERIDIAN, IN THE COUNTY OF WASHINGTON AND STATE OF OREGON, DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE AT THE NORTHWEST CORNER OF THE SOUTHEAST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE SOUTH 0° 08' 44" EAST ALONG THE WEST LINE OF THE SOUTHEAST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28, 218.67 FEET TO THE NORTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 492; THENCE NORTH 38° 09' 44" EAST ALONG SAID COUNTY ROAD RIGHT OF WAY 281.47 FEET TO THE NORTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SAID SECTION 28; THENCE SOUTH 89° 08' 16" WEST ALONG THE NORTH LINE OF THE SOUTHEAST ONE-QUARTER OF SAID SECTION 28, 174.49 FEET TO THE POINT OF BEGINNING.

NOTE: This Legal Description was created prior to January 01, 2008.

Map No.: 2S128C-00500 Tax Account No.: R1492192 and R547466

#### EXHIBIT "B" (Vesting)

Bruce D. Polley and Karen M. Polley, as tenants by the entirety

#### EXHIBIT "C" (Liens and Encumbrances)

- 1. The assessment roll and the tax roll disclose that the within described premises were specially zoned or classified for Farm use. If the land has become or becomes disqualified for such use under the statute, an additional tax or penalty may be imposed.
- 2. A Potential Additional Tax liability is due in the amount of \$2,896.94 for the tax year 2019-2020 (Affects APN #R1492192)
- 3. A Potential Additional Tax liability is due in the amount of \$367.19 for the tax year 2019-2020 (Affects APN #R547466)
- 4. Statutory powers and assessments of Clean Water Services.
- 5. The rights of the public in and to that portion of the premises herein described lying within the limits of streets, roads and highways.

6.	Easement, including terms and provisions contained therein:		
	Recording Information:	January 14, 1954 as Book 352, Page 329	
	In Favor of:	Portland General Electric Company, a corporation of Oregon	
	For:	Electrical lines, telephone lines and appurtenances	
	Affects:	Exact location not disclosed	

- 7.Easement, including terms and provisions contained therein:<br/>Recording Information:April 07, 1959 as Book 416, Page 167In Favor of:<br/>For:<br/>Affects:Portland General Electric Company, an Oregon corporation<br/>Electric power transmission lines<br/>Exact location not disclosed
- 8. Unrecorded leases or periodic tenancies, if any.

 NOTE: Taxes for the year 2019-2020 PAID IN FULL

 Tax Amount:
 \$3,575.87

 Map No.:
 2S128C-00500

 Property ID:
 R1492192

 Tax Code No.:
 088.13

NOTE: Taxes for the year	2019-2020 PAID IN FULL
Tax Amount:	\$100.74
Map No.:	2S128C-00500
Property ID:	R547466
Tax Code No.:	088.09

NOTE: This Public Record Report does not include a search for Financing Statements filed in the Office of the Secretary of State, or in a county other than the county wherein the premises are situated, and no liability is assumed if a Financing Statement is filed in the Office of the County Clerk covering Crops on the premises wherein the lands are described other than by metes and bounds or under the rectangular survey system or by recorded lot and block.

First American Title Insurance Company Public Record Report for New Subdivision or Land Partition Order No. 7019-3402741

### DEFINITIONS, CONDITIONS AND STIPULATIONS

- 1. Definitions. The following terms have the stated meaning when used in this report:
  - (a) "Customer": The person or persons named or shown as the addressee of this report.
  - (b) "Effective Date": The effective date stated in this report.
  - (c) "Land": The land specifically described in this report and improvements affixed thereto which by law constitute real property.
  - (d) "Public Records": Those records which by the laws of the state of Oregon impart constructive notice of matters relating to the Land.

#### 2. Liability of the Company.

- (a) THIS REPORT IS NOT AN INSURED PRODUCT OR SERVICE OR A REPRESENTATION OF THE CONDITION OF TITLE TO REAL PROPERTY. IT IS NOT AN ABSTRACT, LEGAL OPINION, OPINION OF TITLE, TITLE INSURANCE COMMITMENT OR PRELIMINARY REPORT, OR ANY FORM OF TITLE INSURANCE OR GUARANTY. THIS REPORT IS ISSUED EXCLUSIVELY FOR THE BENEFIT OF THE APPLICANT THEREFOR, AND MAY NOT BE USED OR RELIED UPON BY ANY OTHER PERSON. THIS REPORT MAY NOT BE REPRODUCED IN ANY MANNER WITHOUT FIRST AMERICAN'S PRIOR WRITTEN CONSENT. FIRST AMERICAN DOES NOT REPRESENT OR WARRANT THAT THE INFORMATION HEREIN IS COMPLETE OR FREE FROM ERROR, AND THE INFORMATION HEREIN IS PROVIDED WITHOUT ANY WARRANTIES OF ANY KIND, AS-IS, AND WITH ALL FAULTS. AS A MATERIAL PART OF THE CONSIDERATION GIVEN IN EXCHANGE FOR THE ISSUANCE OF THIS REPORT, RECIPIENT AGREES THAT FIRST AMERICAN'S SOLE LIABILITY FOR ANY LOSS OR DAMAGE CAUSED BY AN ERROR OR OMISSION DUE TO INACCURATE INFORMATION OR NEGLIGENCE IN PREPARING THIS REPORT SHALL BE LIMITED TO THE FEE CHARGED FOR THE REPORT. RECIPIENT ACCEPTS THIS REPORT WITH THIS LIMITATION AND AGREES THAT FIRST AMERICAN WOULD NOT HAVE ISSUED THIS REPORT BUT FOR THE LIMITATION OF LIABILITY DESCRIBED ABOVE. FIRST AMERICAN MAKES NO REPRESENTATION OR WARRANTY AS TO THE LEGALITY OR PROPRIETY OF RECIPIENT'S USE OF THE INFORMATION HEREIN.
- (b) No costs (including, without limitation attorney fees and other expenses) of defense, or prosecution of any action, is afforded to the Customer.
- (c) In any event, the Company assumes no liability for loss or damage by reason of the following:
  - (1) Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records.
  - (2) Any facts, rights, interests or claims which are not shown by the Public Records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
  - (3) Easements, liens or encumbrances, or claims thereof, which are not shown by the Public Records.
  - (4) Discrepancies, encroachments, shortage in area, conflicts in boundary lines or any other facts which a survey would disclose.
  - (5) (i) Unpatented mining claims; (ii) reservations or exceptions in patents or in Acts authorizing the issuance thereof, (iii) water rights or claims or title to water.
  - (6) Any right, title, interest, estate or easement in land beyond the lines of the area specifically described or referred to in this report, or in abutting streets, roads, avenues, alleys, lanes, ways or waterways.
  - (7) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use or enjoyment on the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the Public Records at the effective date hereof.
  - (8) Any governmental police power not excluded by 2(d)(7) above, except to the extent that notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the Public Records at the effective date hereof.
  - (9) Defects, liens, encumbrances, adverse claims or other matters created, suffered, assumed, agreed to or actually known by the Customer.
- Charge. The charge for this report does not include supplemental reports, updates or other additional services of the Company.



First American Title Insurance Company 121 SW Morrison Street, Suite 300 Portland, OR 97204 Phone: (503)222-3651 / Fax: (877)242-3513

PR: NWEST

Ofc: 7019 (1011)

#### **Final Invoice**

То:	AKS Engineering & Forestry LLC 12965 SW Herman RD STE 100	Invoice No.: Date:	1011 - 7019153171 03/02/2020
	Tualatin, OR 97062	Our File No.: Title Officer: Escrow Officer:	7019-3402741 Dona Lane
		Customer ID:	994563
DF.	Attention: Michael Kalina Your Ref.:	Liability Amounts	
KE:	21720 SW Oregon Street, Sherwood, OR 97140		
	Buyers:		

Description of Charge		Invoice Amount
Guarantee: Subdivision/Plat Certificate		\$275.00
	INVOICE TOTAL	\$275.00

**Comments:** 

Sellers:

Bruce Polley, Karen Polley

#### Thank you for your business!

To assure proper credit, please send a copy of this Invoice and Payment to: Attention: Accounts Receivable Department PO Box 31001-2281 Pasadena, CA 91110-2281



C. A STATISTIC 798 Ceremine & Cladys Cerephine; KNOW ALL Elle Children New Street 1.9.10 and seens the state of the 2300 ...... Dollars (8 10.00 0/100th v to Po illed "the Grantee"), its su rs and andgras, a perpetual easem and right of way over. Veshington ribed parcel of land situated in.... 50 18 feet in w ty. Oregon, being a strip of land the south side and 32 feet on the north side: Beginning at a point in the leads of the grantors described in Book 149 on Fage 215 and Book 158 on Fage 191, Bead Resords of Washington. County, Oragon, mit said leads being situate in Section 28, 728, BIW, EM, said county, said point being on the west boundary of County Read No. 1260; 18 feat northerly at right angles to the south line of said Section 28; THENCE, from said beginning point, over, under and across the lands of the grantors 8 89°, 39° 36° W, parallel said section line, a distants of 234,04 feat; marg or leas, to the easterly boundary of County Read No. 492. The above described centerline is shown colored red on print of drawing numbered ES 4090 and for purposes of description is attached herato and made a part bareof. . - 17 میل ا TO HAVE AND TO HOLD the above described of ther with the present and future right to top. Unit I growing and dead trees and mage (anid ) icd by the Grantors, adjacent to the about consideration paid for this essement inc 4 right of way. The Grantes shall pay U by the a the va rand of these along any have been so but most and right of way shall be for the following purposes, namely: the perpetual right to enter in, the right to erect such poles, towers, transmission siructures, structures and appur for entry the track of the second structures, where the second structures where, the forestary thereio, together with the present and future right to clear shall right of any and ke internet, structures and fire hazards, provided that fire hearaf shall not be interpreted to where then traces. inid enter Fig to particle strength of the second strength stren epted by the Granta chnowledge that the purchase price named have stall to the exercise of any of said exermine, ion hors extending beyond the right of way and du d have inabove which may be cut under suthority right of samments, loss of growing c of way and danger trees right inder spihority of the Granice scept pay ruys and anchors extend and show mentioned for a international fail to may juid right of way for the purposes in action of said power lines, then and in that event this right a granted herounder shall revert to the Grantors, their bein Grantes, Ite su Tf the a period of ave years a Jogos gr The Grantors bereby warrant that they are possessed of a marketable title to the problem in the same. tiors, for themselves and their heirs and assigns, covenant to IN WITNESS WHEREOF, the Grantors have cau 53 (BEAL) BOOK 416 MCE167 Unicity, fre 27 E.C to balance and the first of the 1.1.1.1.1.1

Non-Order Search Doc: ORWASH:RDED 416-00167

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### KNOW ALL MEN BY THESE PRESENTS, That. ALLEN J. CHRISTOPHER AND SHIRLEY M. CHRISTOPHER, husband and wife hereinafter called the grantor, for the consideration hereinafter stated, to grantor paid by ..... BRUCE D. POLLEY AND KAREN M. POLLEY, husband and wife hereinafter called the grantee, does hereby grant, bargain, sell and convey unto the grantee and grantee's heirs. successors and assigns, that certain real property, with the tenements, hereditaments and appurtenances thereunto belonging or in any way appertaining, situated in <u>WASHINGTON</u> County, State of Oregon, described as follows, to-wit: SEE ATTACHED EXHIBIT "A" (IF SPACE INSUFFICIENT, CONTINUE DESCRIPTION ON REVERSE SIDE) To Have and to Hold the same unto the grantee and grantee's heirs, successors and assigns forever. And grantor hereby covenants to and with grantee and grantee's heirs, successors and assigns, that grantor is lawfully seized in fee simple of the above granted premises, free from all encumbrances grantor will warrant and forever defend the premises and every part and parcel thereof against the lawful claims and demands of all persons whomsoever, except those claiming under the above described encumbrances. The true and actual consideration paid for this transfer, stated in terms of dollars, is \$ 225,000.00 <sup>®</sup>However, the actual consideration consists of or includes other property or value given or promised which is the whole consideration (indicate which). (The sentence between the symbols), it not applicable, should be deleted. See ORS 93.030.) In construing this deed, where the context so requires, the singular includes the plural and all grammatical changes shall be made so that this deed shall apply equally to corporations and to individuals. In Witness Whereof, the grantor has executed this instrument this 2 day of \_\_\_\_\_\_ february \_\_\_\_\_, 1996 ; if a corporate grantor, it has caused its name to be signed and its seal, if any, affixed by an officer or other person duly authorized to do so by order of its board of directors. THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES AND TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN Shirley Christ М. opher ORS 30.930. This instrument was acknowledged before me on \_\_\_\_\_\_ February Z\_\_\_\_\_\_ 19.96 by ...Allen J. Christopher and Shirley **D.** Christopher by as Notary Public for Oregon A VON WILLER NOTARY PUBLIC - OREGON My commission expires 1/-3COMMISSION NO. 049141 MY COMMISSION EXPIRES NOV. 20, 1999

# MAICOR TITLE INSUMICOR TITLE INSURANCE

### EXHIBIT 'A'

#### LEGAL DESCRIPTION

The Southwest one-quarter of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon.

EXCEPTING THEREFROM that tract conveyed to John Campbell by deed recorded in Book 56, Page 232, Washington County, Oregon, which tract is described as follows:

Part of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon. Beginning at the Southwest corner of said Section 28, and thence North on the West section line 16.41 chains to the center of the ditch; thence up said ditch South 21° 1/2" East 7.92 chains and South 26° East 10.01 chains to the South line of said Section 28; thence West on said line 7.32 chains to the point of beginning.

ALSO EXCEPTING THEREFROM part of the Southwest one-quarter of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon, described as follows:

Beginning at the Northwest corner of the Southwest one-quarter of the Southwest one-quarter of said Section 28; thence South 0° 08' 14" East along the West line of said Section 28, 241.02 feet to the most Northerly point of that Parcel deeded by P.P. Bailey and wife to John Campbell, recorded by deed dated March 9, 1901, recorded March 26, 1901, in Book 56, Page 232, of Washington County Deed Records, said point also being in the center of a ditch described in said Bailey deed; thence South 21° 43' 30" East following said ditch centerline 523.00 feet (522.72 deed); thence continuing along said ditch centerline South 26° 13' 30" East 530.95 feet to the Northerly right of way line of County Road No. 492; thence North 45° 19' East along said County Road right of way line 664.92 feet; thence continuing along said County Road right of way line North 38° 09' 44" East 723.79 feet to the East line of the Southwest one-quarter of the Southwest one-quarter of said Section 28; thence North 0° 08' 44" West along said East line of the Southwest one-quarter of the Southwest one-quarter of Section 28, 218.67 feet to a stone and the Northeast corner thereof; thence South 89° 52' 44" West along the North line of the Southwest one-quarter of the Southwest one-quarter of said Section 28, 1309.43 feet to the point of beginning.

AND FURTHER EXCEPTING a part of the Southwest one-quarter of Section 28, Township 2 South, Range 1 West of the Willamette Meridian, in the County of Washington and State of Oregon, described as follows:

Beginning at a stone at the Northwest corner of the Southeast one-quarter of the Southwest one-quarter of said Section 28; thence South 0° 08' 44" East along the West line of the Southeast one-quarter of the Southwest one-quarter of said Section 28, 218.67 feet to the Northerly right of way line of County Road No. 492; thence North 38° 09' 44" East along said County Road right of way 281.47 feet to the North line of the Southeast one-quarter of the Southwest one-quarter of said Section 28; thence South 89° 08' 16" West along the North line of the Southeast one-quarter of said Section 28, 174.49 feet to the point of beginning.


# Exhibit G: Traffic Impact Analysis





**RENEWS:** 6/30/2024

# Oregon Street Business Park

Transportation Impact Analysis

# Sherwood, Oregon

Date: May 23, 2022

Prepared for: Oregon Street Business Park, LLC

Copy: Mimi Doukas, AKS Engineering & Forestry

Prepared by: Nick Mesler, EIT Daniel Stumpf, PE

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### **Executive Summary**

- The Oregon Street Business Park site is located at 21720 SW Oregon Street in what is recently incorporated land in Sherwood, Oregon. The development site is part of the larger Area 48-Tonquin Employment Area (TEA) which is planned to be fully annexed into the City of Sherwood with the buildout of the planning area. The site is currently zoned as Employment Industrial (EI) by the City of Sherwood.
- The proposed development includes approximately 115,170 square feet of "flex" industrial space on a gross 9.23-acre site. Access to the site will be provided via a planned public roadway (SW Laurel Wood Way) along SW Oregon Street, near the east edge of the site.
- 3. The proposed development is projected to generate 81 morning peak hour trips, 73 evening peak hour trips, and 572 average weekday trips.
- 4. No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. No additional safety mitigation is recommended per the crash data analysis.
- 5. The preliminary traffic signal analysis determined that signal warrants are not projected to be met at any of the applicable study intersections under year 2023 Buildout Conditions, with the exception of the following intersection:
  - SW Oregon Street & SW Tonquin Road

This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. Thus, the roundabout is the preferred alternative to a signal.

- 6. Left-turn lane warrants are not projected to be met at any of the applicable study intersections upon completion and occupancy of the proposed development during the AM or PM Peak Hour.
- 7. All study intersections are currently operating acceptably per City of Sherwood and Washington County standards and are projected to continue operating acceptably in Background Year 2023, both with and without the addition of project traffic, with the following exceptions:
  - SW Oregon Street & SW Tonquin Road v/c ratio exceeds 0.99 during PM peak hour
  - SW Murdock Road & SW Sunset Boulevard v/c ratio exceeds 0.85 during PM peak hour
- 8. It is recommended that the project applicant dedicate the necessary right-of-way as mitigation to the applicable CIP project at the intersection of SW Oregon Street & SW Tonquin Road. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.



9. It is recommended that the project applicant make a proportionate fair-share contribution to the applicable CIP project at the intersection of SW Murdock Road & SW Sunset Boulevard. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane. A proportionate share fee to mitigate site trip impacts is calculated at \$45,833.33.



# **Project Description**

### Introduction

This report describes and evaluates the transportation impacts associated with the proposed development of the Oregon Street Business Park property located at 21720 SW Oregon Street in what is recently incorporated land in Sherwood, Oregon. The development site is part of the larger Area 48-Tonquin Employment Area (TEA) which is planned to be fully annexed into the City of Sherwood with the buildout of the planning area. The site is currently zoned as Employment Industrial (EI) by the City of Sherwood.

The proposed development includes approximately 115,170 square feet of "flex" industrial space on a gross 9.23acre site. Access to the site will be provided via a planned public roadway (SW Laurel Wood Way) along SW Oregon Street, near the east edge of the site.

Based on correspondence with the City of Sherwood, a safety and capacity/level of service analysis was conducted at the following intersections:

- 1. SW Oregon Street & SW Tualatin-Sherwood Road
- 2. SW Oregon Street & SW Tonquin Road
- 3. SW Oregon Street & SW Murdock Road
- 4. SW Murdock Road & SW Sunset Boulevard
- 5. SW Oregon Street & Site Access (SW Laurel Wood Way)

The purpose of this study is to determine whether the transportation system within the vicinity of the site is capable of safely and efficiently supporting the existing and proposed uses and to determine any mitigation that may be necessary to do so. Detailed information on traffic counts, trip generation calculations, safety analyses, and level of service calculations is included in the appendix to this report.

### Location Description

The subject site is located at 21720 SW Oregon Street and is surrounded by undeveloped land and industrial land uses. The site is located south of SW Oregon Street and east of SW Tonquin Road, and also includes a small 0.2-acre piece of land west of SW Tonquin Road. There are existing industrial/storage buildings on the property which will be removed upon redevelopment.



#### Vicinity Roadways

The proposed development is expected to impact six (6) vicinity roadways. Table 1 provides a description of each vicinity roadway.

Street Name	Jurisdiction	Functional Classification	Speed (MPH)	Curbs & Sidewalks	On-Street Parking	Bicycle Facilities
SW Tualatin- Sherwood Road	Washington County	Arterial	45 mph	Both Sides	Prohibited	Class II Bike Lanes
SW Oregon Street	Washington County	Arterial	25/35 mph	Partial Both Sides	Prohibited	Class II Bike Lanes
SW Tonquin Road	Washington County	Arterial	55 mph	None	Prohibited	None
SW Murdock Road	City of Sherwood	Arterial	35 mph	Partial Both Side	Partially Permitted	None
SW Sunset Boulevard	City of Sherwood	Arterial	35 mph	Both Sides	Prohibited	None

Table 1: Vicinity Roadway Descriptions

#### **Study Intersections**

The proposed development is expected to impact five (5) vicinity intersections of significance. Table 2 below provides a summarized description of each study intersection.

Table 2:	vicinity Intersection Descriptions			
ID	Intersection	Approaches	Traffic Control	Phasing/Stopped Approaches
1	SW Oregon Street & SW Tualatin-Sherwood Road	Four	Signalized	Permissive NB/SB Left FYA EB/WB Left NB Right-Turn Overlap
2	SW Oregon Street & SW Tonquin Road	Three	Stop-Controlled	NB Approach Stop-Controlled
3	SW Oregon Street & SW Murdock Road	Three	Roundabout	Yield-Controlled Approaches
4	SW Murdock Road & SW Sunset Boulevard	Four	Stop-Controlled	All Approaches Stop-Controlled
5	SW Oregon Street & Site Access	Three	Stop-Controlled	NB Approach Stop-Controlled
FYA = Fla	shina Yellow Arrow			

Table	2:	Vicinity	Intersection	Descriptions

FYA = Flashing Yellow Arrow

A vicinity map displaying the project site, vicinity streets, and the study intersections with their associated lane configurations and control types is shown in Figure 1.





# Site Trips

### Trip Generation

The proposed development includes the construction of 115,170 square feet of general light industrial space. No trip credit is being given to the existing industrial building on site.

To estimate the number of trips that are projected to be generated by the proposed development, trip rates from the *Trip Generation Manual*<sup>1</sup> were used. Specifically, data from land use code 110, General Light Industrial, was used to estimate the proposed development's trip generation based on the building square footage. This land use code is consistent with the character of the proposed development and the transportation modelling conducted for the Tonquin Employment Area Concept Plan: Preferred Concept Plan Report (October 2010).

The trip generation calculations show that the proposed development is projected to generate 81 new morning peak hour trips, 73 new evening peak hour trips, and 572 new average weekday trips. The trip generation estimates are summarized in Table 1. Detailed trip generation calculations are included as an attachment to this memorandum.

Note that a larger development size with subsequently higher trip generation was previously analyzed with a prior iteration of this Transportation Impact Analysis, dated June 1, 2021. Since the prior development size of the project was larger than the current development size, utilizing the past trip generation in place of the current trip generation analysis will provide a more conservative assessment of site trip impacts to the transportation system; however, the actual proposed development trip generation was utilized to evaluate the proportionate share fees calculated in the *Proportionate Share Mitigation Assessment* section.

	ITE	Size	Morning Peak Hour			Evening Peak Hour			Weekday
Land Use	Code		In	Out	Total	In	Out	Total	Total
Proposed Development (Actual Trip Generation)									
General Light Industrial	110	115,170 SF	71	10	81	9	64	73	572
Prior Analysis Trip Generation									
General Light Industrial	110	120,815 SF	75	10	85	10	66	76	600

Table 3: Trip Generation Summary



<sup>1</sup> Institute of Transportation Engineers (ITE), Trip Generation Manual, 10th Edition, 2017.

## Trip Distribution

The project trip distribution was developed based on the geographical location of the project, US residential/employment census data (<u>https://onthemap.ces.census.gov/</u>), and the existing roadway network facilities. The following trip distribution is projected:

- Approximately 30 percent of trips will travel to/from the west of the project site via SW Tualatin-Sherwood Road, west of SW Oregon Street;
- Approximately 30 percent of trips will travel to/from the south of the project site via SW Tonquin Road;
- Approximately 25 percent of trips will travel to/from the east of the project site via SW Tualatin-Sherwood Road, east of SW Oregon Street; and
- Approximately 15 percent of trips will travel to/from the west of the project site via SW Murdock Road and SW Sunset Boulevard.

The regional trip distribution and traffic assignment for site trips generated by the proposed development are shown in Figure 2.





# **Traffic Volumes**

This section describes the study intersection peak hour traffic volumes under existing conditions (year 2021), the anticipated opening day year 2023 background volumes, and the opening day year 2023 buildout volumes.

### Existing Conditions

Since this study is being conducted during the COVID-19 viral pandemic, which has become a public health concern throughout the State of Oregon, collection of current traffic counts is not feasible at this time. Due to the pandemic, traffic volumes have been significantly depressed statewide since March 2020. In order to reflect normal travel conditions, historical traffic count data conducted on Wednesday, February 13, 2019; Tuesday, August 18, 2020; and Wednesday, October 25, 2017 (SW Sunset Boulevard & SW Murdock Boulevard only) were obtained. Upon reviewing the traffic counts, the 2019 data was found to be higher than the 2020 COVID-era counts by as much as 91%. Therefore, the historical 2017 and 2019 traffic counts were utilized for analysis in lieu of the 2020 counts. All traffic counts were conducted from 7:00 to 9:00 AM and from 4:00 to 6:00 PM. Data was used from each intersections' respective morning and evening peak hour.

To adjust for year 2021 baseline conditions, a conservative, compounding annual growth rate of 2.00% was applied to each intersection movement. Thus, to reach the Year 2021 baseline volumes, a 4.04% adjustment was applied to the 2019 count data and a 8.24% adjustment was applied to the 2017 data. Figure 3 displays the baseline existing conditions traffic volumes for the study intersections during the morning and evening peak hour. The 2017 and 2019 count data is provided as an appendix to this report.

### Background Conditions

To provide analysis of the impact of the proposed development on the nearby transportation facilities, an estimate of future traffic volumes is required. Consistent with the growth factors identified in the development of the Existing Conditions baseline volume, an annual compounding 2.00% growth rate was applied to the 2021 Existing Conditons baseline volumes for an assumed anticipated year 2023 project opening day.

Figure 4 displays the projected year 2023 background volumes during the morning and evening peak hours.

### **Buildout Conditions**

Peak hour trips calculated to be generated by the proposed development, as described earlier within the *Site Trips* section, were added to the projected year 2023 buildout traffic volumes to obtain the expected 2023 buildout year volumes.

Figure 5 displays the projected year 2023 peak hour background traffic volumes with the additional site trips projected to be generated by the proposed development.









## Safety Analysis

### Crash History Review

Using data obtained from ODOT's Crash Analysis and Reporting Unit, a review was performed of the most recent five years of available crash data at the study intersections (January 2014 through December 2018). The crash data was evaluated based on the number of crashes, the type of collisions, the severity of the collisions, and the resulting crash rate for each intersection. Crash rates provide the ability to compare safety risks at different intersections by accounting for both the number of crashes that have occurred during the study period and the number of vehicles that typically travel through the intersection. Crash rates were calculated under the common assumption that traffic counted during the evening peak hour represents approximately ten percent of annual average daily traffic (AADT) at each intersection. Crash rates in excess of 1.00 crashes per million entering vehicles (CMEV) may be indicative of design deficiencies and therefore require a need for further investigation and possible mitigation.

With regard to crash severity, ODOT classifies crashes in the following categories:

- 1. Property Damage Only (PDO);
- 2. Possible Injury Complaint of Pain (*Injury C*);
- 3. Non-Incapacitating Injury (Injury B);
- 4. Incapacitating Injury Bleeding, Broken Bones (Injury A); and
- 5. Fatality or Fatal Injury.

Table 4 provides a summary of crash types while Table 5 summarizes crash severities and rates for each of the study intersections. Detailed crash reports are included in the technical appendix to this report.

				Crash Type						
	Intersection	Rear End	Turning	Angle	Fixed Object	Head-On	Sideswipe	Total Crashes		
1.	SW Oregon Street & SW Tualatin-Sherwood Road	27	18	0	0	1	1	47		
2.	SW Oregon Street & SW Tonquin Road	2	5	0	0	0	0	7		
3.	SW Oregon Street & SW Murdock Road	1	0	1	1	0	0	3		
4.	SW Murdock Road & SW Sunset Boulevard	3	2	0	0	0	0	5		

Table 4: Crash Type Summary

#### Table 5: Crash Severity and Rate Summary

Intersection		Crash Severity					Total	рнел	Crash
		PDO	С	В	А	Fatal	Crashes		Rate
1.	SW Oregon Street & SW Tualatin-Sherwood Road	20	16	10	1	0	47	2,632	0.98
2.	SW Oregon Street & SW Tonquin Road	5	2	0	0	0	7	1,412	0.27
3.	SW Oregon Street & SW Murdock Road	1	2	0	0	0	3	1,319	0.12
4.	SW Murdock Road & SW Sunset Boulevard	4	1	0	0	0	5	1,243	0.22

BOLDED text indicates crash rate exceeding a value of 1.00 CMEV.

At the intersection of SW Oregon Street & SW Tualatin-Sherwood Road, there was one reported crash that resulted in sustained injuries consistent with *Injury A* classification. The crash occurred when a westbound vehicle collided with another westbound vehicle, resulting in a rear-end collision. The striking vehicle's driver was reportedly driving carelessly, driving a vehicle with inadequate or no brakes, and rear-ended the second vehicle stopped in traffic. The driver of the struck vehicle sustained injuries consistent with *Injury C* classification. The collision was reported to have occurred under favorable lighting and weather conditions.

#### Washington County SPIS List

The Washington County Safety Priority Index System (SPIS) List 2016 (2013-2015 Data) was reviewed and determined that the intersection of SW Oregon Street & SW Tualatin-Sherwood Road was ranked #62 of 326 intersections throughout Washington County. This intersection also was identified to have a crash rate exceeding 1.00 CMEV.

The SW Tualatin-Sherwood Road corridor is planned to be widened to five lanes from Langer Farms Parkway and Teton Avenue with traffic signal upgrades throughout. The corridor widening construction is set to begin in the summer of 2021 and expected to be completed in two to three years. It is anticipated that this Capital Improvement Project will reduce congestion and improve safety along the corridor and at this intersection.

Based on a review of the most recent five years of available crash data, no significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. Accordingly, no additional safety mitigation is recommended per the crash data analysis.



### Warrant Analysis

#### Preliminary Traffic Signal Warrants

Preliminary traffic signal warrants were examined for all unsignalized study intersections. Methodologies were based on the Manual on Uniform Traffic Control Devices (MUTCD), published by the Federal Highway Administration in 2009. Warrant 1, Eight-Hour Vehicular Volumes, was evaluated based on the common assumption that traffic counted during the evening peak hour represents 10 percent of the average daily traffic (ADT) and that the 8<sup>th</sup> highest hour is 5.65 percent of the daily volume. Detailed analysis worksheets can be found in an appendix to this report.

The preliminary traffic signal analysis determined that signal warrants are not projected to be met at any of the applicable study intersections under year 2023 Buildout Conditions, with the exception of the following intersection:

• SW Oregon Street & SW Tonquin Road

This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. Thus, the roundabout is the preferred alternative to a signal.

#### Left-Turn Lane Warrants

Left-turn lane warrants were examined for the site access intersection under year 2023 buildout conditions. A left-turn refuge is primarily a safety consideration for the major-street approach, removing left-turning vehicles from the through traffic stream.

Warrants for an eastbound left-turn lane at the site access intersection were based on the methodology outlined in the National Cooperative Highway Research Program (NCHRP) Report Number 457<sup>2</sup>. This methodology evaluates the need for a left-turn lane based on the number of left-turning vehicles, the number of travel lanes, the number of advancing and opposing vehicles, and the roadway travel speed. Detailed warrant analyses for each study intersection are included in the technical appendix to this report.

Left-turn lane warrants are not projected to be met upon completion and occupancy of the proposed development during the AM or PM Peak Hour at the site access intersection with SW Oregon Street.



<sup>2</sup> Bonneson, James A. and Michael D. Fontaine, *NCHRP Report 457: An Engineering Study Guide for Evaluating Intersection Improvements,* Transportation Research Board, 2001.

## **Operational Analysis**

Capacity and delay analyses were conducted for each of the study intersections per the signalized and unsignalized intersection analysis methodologies in the *Highway Capacity Manual* <sup>3</sup> (HCM). Calculations for the intersections are performed using Synchro 10.3.122.0 software. Intersections are generally evaluated based on the average control delay experienced by vehicles and are assigned a grade according to their operation. The level of service (LOS) of an intersection can range from LOS A, which indicates very little or no delay experienced by vehicles, to LOS F, which indicates a high degree of congestion and delay. The volume-to-capacity (v/c) ratio is a measure that compares the traffic volumes (demand) against the available capacity of an intersection.

### Performance Standards

The operating standards adopted by Washington County and the City of Sherwood are summarized below.

#### Washington County

SW Tualatin-Sherwood Road, SW Oregon Street, and SW Tonquin Road are under the jurisdiction of Washington County. The County has defined operating standards for signalized and stop controlled intersections as follows:

- For signalized intersections, the maximum intersection v/c ratio shall be no greater than 0.99.
- For unsignalized intersections, no movement shall experience a v/c ratio greater than 0.99.

#### City of Sherwood

According to the City of Sherwood's Transportation System Plan (TSP), signalized, all-way stop-control, and roundabout intersections under City jurisdiction must operate at LOS D or better with a v/c ratio of 0.85 or less. Two-way stop-controlled intersections are required to operate at LOS E or better with a v/c ratio of 0.90 or less<sup>4</sup>.



<sup>3</sup> Transportation Research Board, *Highway Capacity Manual*, 6th Edition, 2016.

<sup>4</sup> City of Sherwood, Sherwood Transportation System Plan. Adopted June 17th, 2014.

# Delay & Capacity Analysis

The v/c, delay, and LOS results of the capacity analysis are shown in

Table 6 below for the morning and evening peak hours. Detailed calculations as well as tables showing the relationship between delay and LOS are included in the appendix to this report.

rable of intersection capacity Analysis summary
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	Connaio	A	M Peal	k Hour	PM Peak Hour			
Intersection	Scenario	V/C	LOS	Delay (s)	V/C	LOS	Delay (s)	
1. SW Oregon Street	Existing Conditions	0.73	В	17.3	0.86	С	27.7	
& SW Tualatin-	2023 Background Conditions	0.76	В	19.4	0.92	D	36.2	
Sherwood Road	2023 Buildout Conditions	0.76	В	19.8	0.95	D	39.0	
	Existing Conditions	0.52	D	28.1	1.75	F	398.5	
2. SW Oregon Street & SW Tonquin Road	2023 Background Conditions	0.56	D	31.4	1.96	F	490.2	
	2023 Buildout Conditions	0.58	D	33.4	2.16	F	584.9	
	Existing Conditions	0.61	А	9.2	0.65	А	9.6	
3. SW Oregon Street	2023 Background Conditions	0.65	А	9.9	0.68	В	10.3	
	2023 Buildout Conditions	0.66	В	10.1	0.69	В	10.5	
4. SW Murdock Road	Existing Conditions	0.53	С	16.8	0.89	Е	40.0	
& SW Sunset Boulevard	2023 Background Conditions	0.56	С	17.8	0.94	F	50.7	
	2023 Buildout Conditions	0.58	С	18.6	0.94	F	51.7	
5. SW Oregon Street	Existing Conditions	Does Not Exist						
& Site Access (SW	2023 Background Conditions			Does N	Vot Exist			
Laurel Wood Way)	2023 Buildout Conditions	0.05	В	14.5	0.19	С	16.8	

**BOLDED** text indicates intersection operation above jurisdictional standards.

Based on the results of the operational and capacity analysis, all study intersections are currently operating acceptably per City of Sherwood and Washington County standards and are projected to continue operating acceptably in Background Year 2023, both with and without the addition of project traffic, with the following exceptions:

- 2. SW Oregon Street & SW Tonquin Road v/c ratio exceeds 0.99 during PM Peak Hour
- 4. SW Murdock Road & SW Sunset Boulevard v/c ratio exceeds 0.85 during PM Peak Hour



### Intersection Mitigation Analysis

As noted in the previous section, and consistent with the findings and recommendation of the City of Sherwood TSP, there are two study area intersections that have existing operational deficincies that are anticipated to continue in the year 2023 buildout year, with and without the addition of project traffic.

- The intersection of SW Oregon Street & SW Tonquin Road is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.
- The intersection of SW Murdock Road & SW Sunset Boulevard is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane.

These improvements will reduce the intersection v/c ratio and level of service to within acceptable standards. Table 7 summarizes the v/c ratio, level of service, and delay for the background, buildout, and mitigated conditions:

luctore etion	Connaile	PM Peak Hour				
Intersection	Scenario	V/C	LOS	Delay (s)		
	2023 Background Conditions	1.96	F	490.2		
2. SW Oregon Street & SW Tonquin Road	2023 Buildout Conditions	2.20	F	602.7		
	2023 Mitigated Conditions	0.78	В	13.8		
	2023 Background Conditions	0.94	Е	35.8		
4. SW Murdock Road & SW Sunset Boulevard	2023 Buildout Conditions	0.95	Е	37.6		
	2023 Mitigated Conditions	0.73	D	27.3		

Table 7: Intersection Mitigation Analysis

**BOLDED** text indicates intersection operation above jurisdictional standards.

The identified CIP projects will improve intersection operations to meet the City of Sherwood and Washington County jurisdictional standards.

It is recommended that the project applicant dedicate the necessary right-of-way as mitigation to the applicable CIP project at the intersection of SW Oregon Street & SW Tonquin Road. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.

It is recommended that the project applicant make a proportionate fair-share contribution to the applicable CIP project at the intersection of SW Murdock Road & SW Sunset Boulevard. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane.

No additional operational mitigation is necessary or recommended at these intersections.



### **Proportionate Share Mitigation Assessment**

Consistent with *The Reserve TIA* (conducted by Kittleson & Associates September 19, 2019) and the *Cedar Creek Subdivision TIA* (conducted by Lancaster Mobley April 8, 2020), proportionate share fees were evaluated at intersections determined as failing, using methodologies similar to those presented in Table 6 and Table 7 of the referenced TIAs, respectively. Table 8 below provides the methodology used to calculate proportionate share fees based on the proposed development's trip generation impacts.

Intersection	SW Sunset Boulevard at SW Murdock Road/SW Baker Road
Mitigation Project Summary	Construct NB Left Turn Lane & SB Right Turn Lane
City TSP Project ID	D33
Peak Hour	Weekday PM
Scenario when Mitigation is Triggered	No Build (2024)
Existing Total Entering Volume, TEV (X)	1,208
2024 No Build (Background with RIRO, Y)	1,377
Project Trips (PT)	11
Background Growth (Z=Y-X)	169
Proportional Share (%, PT/(PT+Z))	6.11%
Mitigation Cost Estimate (\$)	\$750,000
Cost Estimate Reference	TSP (Ref 5)
Proportional Share Cost	\$45,833.33

Table 8: Proportional Share Methology Summary

Based on the proportionate share fee calculations, a proportionate share fee to mitigate site trip impacts to the above intersection is \$45,833.33.

The intersection of SW Oregon Street & SW Tonquin Road is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. This capital improvement project will be funded by the Washington County Transportation Development Tax (TDT) and City of Sherwood System Development Charges (SDC). It is recommended that the project applicant dedicate the necessary right-of-way as appropriate mitigation.



# Conclusions

No significant trends or crash patterns were identified at any of the study intersections that were indicative of safety concerns. No additional safety mitigation is recommended per the crash data analysis.

The preliminary traffic signal analysis determined that signal warrants are not projected to be met at any of the applicable study intersections under year 2023 Buildout Conditions, with the exception of the following intersection:

• SW Oregon Street & SW Tonquin Road

This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection. Thus, the roundabout is the preferred alternative to a signal.

Left-turn lane warrants are not projected to be met upon at any of the applicable study intersections following completion and occupancy of the proposed development during the AM or PM Peak Hour.

All study intersections are currently operating acceptably per City of Sherwood and Washington County standards and are projected to continue operating acceptably in Background Year 2023, both with and without the addition of project traffic, with the following exceptions:

- SW Oregon Street & SW Tonquin Road v/c ratio exceeds 0.99 during PM Peak Hour
- SW Murdock Road & SW Sunset Boulevard v/c ratio exceeds 0.85 during PM Peak Hour

It is recommended that the project applicant dedicate the necessary right-of-way as mitigation to the applicable CIP project at the intersection of SW Oregon Street & SW Tonquin Road. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D3, which intends to reconstruct this intersection to a dumbbell roundabout with the SW Oregon Street/SW Murdock Road intersection.

It is recommended that the project applicant make a proportionate fair-share contribution to the applicable CIP project at the intersection of SW Murdock Road & SW Sunset Boulevard. This intersection is identified in the City of Sherwood *Capital Improvement Plan (2020-2025)* (CIP) as Project ID #D33, which intends to construct a southbound right-turn lane and a northbound left-turn lane. A proportionate share fee to mitigate site trip impacts is calculated at \$45,833.33.



# Appendix



Appendix A

Site Plan





Appendix B Traffic Counts





Location:3 SW MURDOCK RD & SW OREGON ST AMDate:Tuesday, August 18, 2020Peak Hour:07:35 AM - 08:35 AM

Peak 15-Minutes: 07:35 AM - 07:50 AM

#### **Peak Hour**





Note: Total study counts contained in parentheses.

	HV%	PHF
EB	2.7%	0.89
WB	0.0%	0.00
NB	1.4%	0.83
SB	8.0%	0.88
All	3.7%	0.89

#### **Traffic Counts - Motorized Vehicles**

manne evance																		
Interval	SW OREGON ST Eastbound					SW ORI West	EGON S <sup>-</sup> bound	Т	S	SW MUR North	DOCK R	D	SW MURDOCK RD					Rollina
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
7:00 AM	0	12	0	0	0	0	0	0	0	2	23	0	0	0	2	5	44	593
7:05 AM	0	9	0	1	0	0	0	0	0	2	14	0	0	0	1	5	32	596
7:10 AM	0	18	0	3	0	0	0	0	0	0	26	0	0	0	0	5	52	609
7:15 AM	0	13	0	3	0	0	0	0	0	4	18	0	0	0	4	7	49	602
7:20 AM	0	12	0	2	0	0	0	0	0	3	14	0	0	0	4	4	39	612
7:25 AM	0	16	0	0	0	0	0	0	0	3	17	0	0	0	6	5	47	619
7:30 AM	0	16	0	2	0	0	0	0	0	4	16	0	0	0	7	7	52	620
7:35 AM	0	17	0	1	0	0	0	0	0	3	31	0	0	0	4	9	65	623
7:40 AM	0	10	0	3	0	0	0	0	0	3	23	0	0	0	6	3	48	612
7:45 AM	0	16	0	3	0	0	0	0	0	4	23	0	0	0	9	7	62	612
7:50 AM	0	16	0	5	0	0	0	0	0	2	31	0	0	0	4	3	61	613
7:55 AM	0	10	0	1	0	0	0	0	0	3	10	0	0	0	13	5	42	605
8:00 AM	0	6	0	1	0	0	0	0	0	2	28	0	0	0	5	5	47	614
8:05 AM	0	3	0	1	0	0	0	0	0	2	16	0	0	0	8	15	45	
8:10 AM	0	7	0	1	0	0	0	0	0	1	22	0	0	0	6	8	45	
8:15 AM	0	12	0	2	0	0	0	0	0	3	22	0	0	0	7	13	59	
8:20 AM	0	7	0	3	0	0	0	0	0	5	16	0	0	0	8	7	46	
8:25 AM	0	8	0	2	0	0	0	0	0	0	18	0	0	0	12	8	48	
8:30 AM	0	9	0	3	0	0	0	0	0	1	20	0	0	0	8	14	55	
8:35 AM	0	13	0	1	0	0	0	0	0	4	21	0	0	0	10	5	54	
8:40 AM	0	8	0	3	0	0	0	0	0	2	23	0	0	0	7	5	48	
8:45 AM	0	9	0	2	0	0	0	0	0	4	22	0	0	0	12	14	63	
8:50 AM	0	13	0	2	0	0	0	0	0	3	19	0	0	0	11	5	53	
8:55 AM	0	13	0	3	0	0	0	0	0	4	13	0	0	0	9	9	51	
Count Total	0	273	0	48	0	0	0	0	0	64	486	0	0	0	163	173	1,207	_
Peak Hour	0	121	0	26	0	0	0	0	0	29	260	0	0	0	90	97	623	_

#### Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval		Hea	vy Vehicle	es		Interval		Bicycle	es on Road	lway		Interval Pedestrians/Bicycles on Crosswalk					lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	0	0	0	1	1	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	1	0	0	0	1	7:10 AM	0	1	0	1	2	7:10 AM	0	0	0	0	0
7:15 AM	1	1	0	2	4	7:15 AM	0	0	0	1	1	7:15 AM	0	0	0	0	0
7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0	7:20 AM	1	0	0	0	1
7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	1	0	1	2	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	0	0	2	2	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	1	0	2	3	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	0	0	2	2	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	1	0	0	2	3	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	0	1	0	2	3	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	1	0	1	2	8:05 AM	1	0	0	1	2	8:05 AM	0	0	0	0	0
8:10 AM	1	0	0	1	2	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	1	1	0	1	3	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	1	0	0	2	3	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	1	0	1	2	8:30 AM	0	0	0	0	0
8:35 AM	1	1	0	0	2	8:35 AM	0	1	0	0	1	8:35 AM	0	0	0	0	0
8:40 AM	0	2	0	2	4	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0
8:45 AM	0	3	0	2	5	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	0	2	2	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	7	12	0	25	44	Count Total	1	3	0	4	8	Count Total	1	0	0	0	1
Peak Hour	4	4	0	15	23	Peak Hour	1	1	0	2	4	Peak Hour	0	0	0	0	0



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Location: 1 SW OREGON ST & SW TONQUIN RD AM Date: Tuesday, August 18, 2020

Peak Hour: 07:35 AM - 08:35 AM

Peak 15-Minutes: 07:35 AM - 07:50 AM

#### Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	11.1%	0.81
NB	1.8%	0.87
SB	13.5%	0.92
All	6.1%	0.90

#### Pedestrians **Heavy Vehicles** 20 13 I t 0 1 0 6 0 ļ ٥ 0 0 0 12 l I 0 0 0 6 \_ 0 0 15 7

#### **Traffic Counts - Motorized Vehicles**

Inter (al		SW TON		C		SW TON	IQUIN RI	D		SW ORE	GON ST		:	SW ORE	GON ST			Dolling
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
7:00 AM	0	0	0	0	0	5	0	4	0	0	25	12	0	5	4	0	55	645
7:05 AM	0	0	0	0	0	3	0	9	0	0	17	7	0	4	4	0	44	639
7:10 AM	0	0	0	0	0	3	0	8	0	0	20	23	0	2	0	0	56	640
7:15 AM	0	0	0	0	0	9	0	4	0	0	25	5	0	2	5	0	50	631
7:20 AM	0	0	0	0	0	5	0	4	0	0	14	11	0	3	3	0	40	648
7:25 AM	0	0	0	0	0	5	0	6	0	0	13	22	0	2	3	0	51	650
7:30 AM	0	0	0	0	0	9	0	2	0	0	18	15	0	7	8	0	59	646
7:35 AM	0	0	0	0	0	8	0	1	0	0	30	17	0	5	4	0	65	651
7:40 AM	0	0	0	0	0	3	0	2	0	0	22	13	0	4	5	0	49	639
7:45 AM	0	0	0	0	0	8	0	5	0	0	26	12	0	8	8	0	67	640
7:50 AM	0	0	0	0	0	4	0	3	0	0	30	16	0	5	4	0	62	636
7:55 AM	0	0	0	0	0	8	0	3	0	0	12	11	0	3	10	0	47	636
8:00 AM	0	0	0	0	0	3	0	3	0	0	26	6	0	3	8	0	49	635
8:05 AM	0	0	0	0	0	6	0	4	0	0	17	3	0	2	13	0	45	
8:10 AM	0	0	0	0	0	4	0	3	0	0	23	6	0	1	10	0	47	
8:15 AM	0	0	0	0	0	11	0	7	0	0	21	15	0	3	10	0	67	
8:20 AM	0	0	0	0	0	9	0	2	0	0	12	9	0	2	8	0	42	
8:25 AM	0	0	0	0	0	6	0	0	0	0	16	9	0	4	12	0	47	
8:30 AM	0	0	0	0	0	8	0	6	0	0	25	9	0	3	13	0	64	
8:35 AM	0	0	0	0	0	8	0	1	0	0	22	11	0	4	7	0	53	
8:40 AM	0	0	0	0	0	6	0	2	0	0	15	13	0	6	8	0	50	
8:45 AM	0	0	0	0	0	12	0	6	0	0	23	9	0	3	10	0	63	
8:50 AM	0	0	0	0	0	7	0	5	0	0	18	16	0	3	13	0	62	
8:55 AM	0	0	0	0	0	9	0	1	0	0	10	15	0	2	9	0	46	
Count Total	0	0	0	0	0	159	0	91	0	0	480	285	0	86	179	0	1,280	
Peak Hour	0	0	0	0	0	78	0	39	0	0	260	126	0	43	105	0	651	

#### Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval		Hea	avy Vehicle	es		Interval Bicy				dway		Interval Pedestrians/B				Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	0	0	2	3	5	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	0	0	1	2	3	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	0	1	2	0	3	7:10 AM	0	1	1	0	2	7:10 AM	0	0	0	0	0
7:15 AM	0	2	3	0	5	7:15 AM	0	0	0	1	1	7:15 AM	0	0	0	0	0
7:20 AM	0	0	3	0	3	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	0	0	4	0	4	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	0	0	0	3	3	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	0	0	2	2	4	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	0	1	0	3	4	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	0	0
7:45 AM	0	0	3	1	4	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	0	1	1	2	4	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	0	0	0	1	1	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	0	1	0	4	5	8:00 AM	0	0	0	0	0	8:00 AM	0	0	0	0	0
8:05 AM	0	1	2	2	5	8:05 AM	0	1	0	0	1	8:05 AM	0	0	0	0	0
8:10 AM	0	1	2	1	4	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	0	2	1	2	5	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	0	0	1	1	2	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	0	0	1	1	2	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	0	2	0	1	3	8:35 AM	0	1	0	0	1	8:35 AM	0	0	0	0	0
8:40 AM	0	2	0	4	6	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	0	0
8:45 AM	0	3	4	1	8	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	0	0	0	2	2	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	0	0	2	1	3	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	0	17	34	37	88	Count Total	0	3	1	1	5	Count Total	0	0	0	0	0
Peak Hour	0	7	13	20	40	Peak Hour	0	1	0	0	1	Peak Hour	0	0	0	0	0

#### Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD AM



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#### Peak Hour



**Heavy Vehicles** 0 2 t 0 0 0 0 ļ 0 ٥ 85 С 0 0 78 80 l 0 I 0 0 0 3 5 0 0 21 28

Pedestrians

Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD AM

Date: Tuesday, August 18, 2020

Peak Hour: 07:30 AM - 08:30 AM

Peak 15-Minutes: 07:35 AM - 07:50 AM

Note: Total study counts contained in parentheses.

	HV%	PHF
EB	11.0%	0.89
WB	12.4%	0.92
NB	9.2%	0.80
SB	0.0%	0.56
All	11.2%	0.92

#### **Traffic Counts - Motorized Vehicles**

late a vel	SW T	UALATI		VOOD	D SW TUALATIN SHERWOOD West®Dund				SW ORE	GON ST		SW OREGON ST Southbound					Delline	
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
7:00 AM	0	1	36	2	0	3	35	0	0	3	0	28	0	0	0	0	108	1,608
7:05 AM	0	0	63	4	0	0	39	0	0	2	0	19	0	0	0	0	127	1,644
7:10 AM	0	0	56	8	0	3	29	1	0	6	1	21	0	1	0	0	126	1,649
7:15 AM	0	0	54	6	0	4	36	0	0	8	0	22	0	0	0	0	130	1,621
7:20 AM	0	1	54	6	0	8	41	0	0	8	0	14	0	0	0	0	132	1,645
7:25 AM	0	0	40	8	0	3	36	0	0	10	0	11	0	0	0	0	108	1,659
7:30 AM	0	0	72	6	0	3	49	0	0	3	0	15	0	0	0	0	148	1,685
7:35 AM	0	0	52	7	0	7	53	2	0	4	0	34	0	2	0	0	161	1,682
7:40 AM	0	0	64	9	0	6	30	0	0	5	0	22	0	0	0	0	136	1,682
7:45 AM	0	0	55	7	0	8	53	1	0	6	1	29	0	0	0	0	160	1,682
7:50 AM	0	2	53	5	0	6	33	0	0	4	2	25	0	0	0	0	130	1,670
7:55 AM	0	2	59	5	0	7	52	0	0	3	1	13	0	0	0	0	142	1,670
8:00 AM	0	1	41	5	0	15	47	0	0	9	0	25	0	1	0	0	144	1,648
8:05 AM	0	0	51	3	0	7	50	0	0	4	0	16	0	0	1	0	132	
8:10 AM	0	3	29	0	0	7	35	0	0	2	1	19	0	0	0	2	98	
8:15 AM	0	1	64	2	0	14	48	0	0	7	0	17	0	1	0	0	154	
8:20 AM	0	0	58	8	0	6	54	0	0	5	0	14	0	1	0	0	146	
8:25 AM	0	0	37	9	0	13	57	0	0	4	0	14	0	0	0	0	134	
8:30 AM	0	0	55	5	0	5	48	1	0	9	0	22	0	0	0	0	145	
8:35 AM	0	0	70	6	0	8	54	1	0	1	0	20	0	1	0	0	161	
8:40 AM	0	1	55	4	0	8	46	1	0	5	1	15	0	0	0	0	136	
8:45 AM	0	2	49	7	0	12	49	0	0	8	0	20	0	1	0	0	148	
8:50 AM	0	0	41	4	0	13	46	1	0	8	0	17	0	0	0	0	130	
8:55 AM	0	0	45	3	0	7	49	1	0	4	0	10	0	1	0	0	120	
Count Total	0	14	1,253	129	0	173	1,069	9	0	128	7	462	0	9	1	2	3,256	_
Peak Hour	0	9	635	66	0	99	561	3	0	56	5	243	0	5	1	2	1,685	_

#### Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval		Hea	avy Vehicle	es		Interval	art Time ED ND ND OD T						Interval Pedestrians/Bicycles on Crosswalk				
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
7:00 AM	3	5	5	0	13	7:00 AM	0	0	0	0	0	7:00 AM	0	0	0	0	0
7:05 AM	5	2	6	0	13	7:05 AM	0	0	0	0	0	7:05 AM	0	0	0	0	0
7:10 AM	6	2	3	1	12	7:10 AM	1	0	1	0	2	7:10 AM	0	0	0	0	0
7:15 AM	2	3	8	0	13	7:15 AM	0	0	0	0	0	7:15 AM	0	0	0	0	0
7:20 AM	3	3	7	0	13	7:20 AM	0	0	0	0	0	7:20 AM	0	0	0	0	0
7:25 AM	3	4	8	0	15	7:25 AM	0	0	0	0	0	7:25 AM	0	0	0	0	0
7:30 AM	6	1	9	0	16	7:30 AM	0	0	0	0	0	7:30 AM	0	0	0	0	0
7:35 AM	8	3	10	0	21	7:35 AM	0	0	0	0	0	7:35 AM	0	0	0	0	0
7:40 AM	5	2	5	0	12	7:40 AM	0	0	0	0	0	7:40 AM	0	0	0	1	1
7:45 AM	4	2	7	0	13	7:45 AM	0	0	0	0	0	7:45 AM	0	0	0	0	0
7:50 AM	9	1	6	0	16	7:50 AM	0	0	0	0	0	7:50 AM	0	0	0	0	0
7:55 AM	7	2	10	0	19	7:55 AM	0	0	0	0	0	7:55 AM	0	0	0	0	0
8:00 AM	7	2	4	0	13	8:00 AM	1	0	0	0	1	8:00 AM	0	0	0	0	0
8:05 AM	12	3	6	0	21	8:05 AM	0	0	0	0	0	8:05 AM	0	0	0	0	0
8:10 AM	2	2	8	0	12	8:10 AM	0	0	0	0	0	8:10 AM	0	0	0	0	0
8:15 AM	4	4	8	0	16	8:15 AM	0	0	0	0	0	8:15 AM	0	0	0	0	0
8:20 AM	7	5	2	0	14	8:20 AM	0	0	0	0	0	8:20 AM	0	0	0	0	0
8:25 AM	7	1	7	0	15	8:25 AM	0	0	0	0	0	8:25 AM	0	0	0	0	0
8:30 AM	5	2	4	0	11	8:30 AM	0	0	0	0	0	8:30 AM	0	0	0	0	0
8:35 AM	6	2	10	0	18	8:35 AM	0	1	0	0	1	8:35 AM	0	0	0	0	0
8:40 AM	5	0	7	0	12	8:40 AM	0	0	0	0	0	8:40 AM	0	0	0	1	1
8:45 AM	5	6	6	0	17	8:45 AM	0	0	0	0	0	8:45 AM	0	0	0	0	0
8:50 AM	3	1	3	0	7	8:50 AM	0	0	0	0	0	8:50 AM	0	0	0	0	0
8:55 AM	6	1	10	0	17	8:55 AM	0	0	0	0	0	8:55 AM	0	0	0	0	0
Count Total	130	59	159	1	349	Count Total	2	1	1	0	4	Count Total	0	0	0	2	2
Peak Hour	78	28	82	0	188	Peak Hour	1	0	0	0	1	Peak Hour	0	0	0	1	1



Location: 3 SW MURDOCK RD & SW OREGON ST PM Date: Tuesday, August 18, 2020 Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 05:05 PM - 05:20 PM

#### **Peak Hour**





Note: Total study counts contained in parentheses.

	HV%	PHF
EB	2.7%	0.87
WB	0.0%	0.00
NB	0.4%	0.84
SB	0.5%	0.93
All	1.0%	0.92

#### **Traffic Counts - Motorized Vehicles**

Interval	SW OREGON ST Eastbound					SW OREGON ST Westbound			SW MURDOCK RD Northbound				SW MURDOCK RD Southbound					Rolling
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
4:00 PM	0	7	0	3	0	0	0	0	0	5	26	0	0	0	20	21	82	1,001
4:05 PM	0	9	0	12	0	0	0	0	0	6	13	0	0	0	27	14	81	999
4:10 PM	0	15	0	11	0	0	0	0	0	4	13	0	0	0	27	17	87	1,002
4:15 PM	0	9	0	4	0	0	0	0	0	5	14	0	0	0	25	19	76	1,018
4:20 PM	0	12	0	7	0	0	0	0	0	5	11	0	0	0	29	19	83	1,041
4:25 PM	0	9	0	6	0	0	0	0	0	5	13	0	0	0	21	21	75	1,036
4:30 PM	0	15	0	5	0	0	0	0	0	6	12	0	0	0	24	21	83	1,045
4:35 PM	0	11	0	9	0	0	0	0	0	4	18	0	0	0	20	30	92	1,049
4:40 PM	0	13	0	4	0	0	0	0	0	4	20	0	0	0	25	24	90	1,034
4:45 PM	0	8	0	8	0	0	0	0	0	9	18	0	0	0	27	27	97	1,015
4:50 PM	0	12	0	8	0	0	0	0	0	5	16	0	0	0	24	11	76	1,000
4:55 PM	0	10	0	8	0	0	0	0	0	4	9	0	0	0	27	21	79	984
5:00 PM	0	13	0	4	0	0	0	0	0	2	11	0	0	0	30	20	80	972
5:05 PM	0	22	0	7	0	0	0	0	0	3	12	0	0	0	26	14	84	
5:10 PM	0	12	0	8	0	0	0	0	0	8	19	0	0	0	29	27	103	
5:15 PM	0	7	0	9	0	0	0	0	0	7	20	0	0	0	37	19	99	
5:20 PM	0	7	0	7	0	0	0	0	0	3	14	0	0	0	31	16	78	
5:25 PM	0	12	0	6	0	0	0	0	0	6	7	0	0	0	33	20	84	
5:30 PM	0	12	0	7	0	0	0	0	0	2	13	0	0	0	30	23	87	
5:35 PM	0	9	0	6	0	0	0	0	0	4	11	0	0	0	26	21	77	
5:40 PM	0	10	0	8	0	0	0	0	0	2	16	0	0	0	19	16	71	
5:45 PM	0	14	0	6	0	0	0	0	0	8	8	0	0	0	26	20	82	
5:50 PM	0	8	0	5	0	0	0	0	0	8	9	0	0	0	21	9	60	
5:55 PM	0	5	0	8	0	0	0	0	0	5	13	0	0	0	19	17	67	
Count Total	0	261	0	166	0	0	0	0	0	120	336	0	0	0	623	467	1,973	_
Peak Hour	0	139	0	85	0	0	0	0	0	57	177	0	0	0	339	252	1,049	

#### Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval		Hea	avy Vehicle	es		Interval	Bicycles on Roadway					Interval	Pedestrians/Bicycles on Crosswalk				
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
4:00 PM	0	1	0	1	2	4:00 PM	0	1	0	0	1	4:00 PM	0	0	0	0	0
4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	0	2	0	1	3	4:10 PM	1	0	0	0	1	4:10 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	1	0	0	0	1	4:25 PM	0	1	0	0	1	4:25 PM	0	0	0	2	2
4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0	4:30 PM	0	2	0	0	2
4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	1	0	0	2	3	5:00 PM	0	1	0	0	1	5:00 PM	0	0	0	0	0
5:05 PM	2	0	0	0	2	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	1	0	0	0	1	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	1	0	0	0	1	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	1	0	0	1	5:20 PM	1	0	0	0	1	5:20 PM	1	0	0	0	1
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	1	1	5:25 PM	0	0	0	0	0
5:30 PM	1	0	0	1	2	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	2	2	5:40 PM	0	0	0	0	0
5:45 PM	0	1	0	0	1	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	1	0	2	3	5:55 PM	0	0	0	1	1	5:55 PM	0	0	0	0	0
Count Total	7	6	0	7	20	Count Total	2	3	0	4	9	Count Total	1	2	0	2	5
Peak Hour	6	1	0	3	10	Peak Hour	1	1	0	1	3	Peak Hour	1	0	0	0	1


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Location: 1 SW OREGON ST & SW TONQUIN RD PM Date: Tuesday, August 18, 2020

Peak Hour: 04:35 PM - 05:35 PM

Peak 15-Minutes: 04:35 PM - 04:50 PM

### Peak Hour



Note: Total study counts contained in parentheses.

	HV%	PHF
EB	0.0%	0.00
WB	0.8%	0.90
NB	1.9%	0.89
SB	0.5%	0.84
All	1.0%	0.91

#### Pedestrians **Heavy Vehicles** 2 2 t 0 0 0 ļ ٥ Λ 0 0 0 0 5 Ĩ I 0 0 0 $\sim$ 4 0 0 3 6

## **Traffic Counts - Motorized Vehicles**

Inter val		SW TON		C		SW TON		D		SW ORE	GON ST		:	SW ORE	GON ST			Dolling
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
4:00 PM	0	0	0	0	0	22	0	2	0	0	27	4	0	4	25	0	84	963
4:05 PM	0	0	0	0	0	14	0	3	0	0	13	7	0	11	29	0	77	957
4:10 PM	0	0	0	0	0	20	0	5	0	0	20	10	0	6	23	0	84	964
4:15 PM	0	0	0	0	0	13	0	0	0	0	16	5	0	6	28	0	68	969
4:20 PM	0	0	0	0	0	24	0	1	0	0	17	5	0	5	26	0	78	993
4:25 PM	0	0	0	0	0	23	0	2	0	0	16	10	0	4	21	0	76	992
4:30 PM	0	0	0	0	0	17	0	4	0	0	16	12	0	4	22	0	75	997
4:35 PM	0	0	0	0	0	17	0	5	0	0	14	12	0	7	36	0	91	1,013
4:40 PM	0	0	0	0	0	22	0	3	0	0	20	17	0	12	27	0	101	995
4:45 PM	0	0	0	0	0	27	0	1	0	0	13	10	0	5	29	0	85	960
4:50 PM	0	0	0	0	0	12	0	2	0	0	18	12	0	4	21	0	69	942
4:55 PM	0	0	0	0	0	24	0	3	0	0	9	8	0	6	25	0	75	926
5:00 PM	0	0	0	0	0	19	0	2	0	0	16	9	0	5	27	0	78	909
5:05 PM	0	0	0	0	0	14	0	2	0	0	18	15	0	4	31	0	84	
5:10 PM	0	0	0	0	0	21	0	2	0	0	19	13	0	4	30	0	89	
5:15 PM	0	0	0	0	0	22	0	2	0	0	21	5	0	5	37	0	92	
5:20 PM	0	0	0	0	0	9	0	3	1	0	11	10	0	8	35	0	77	
5:25 PM	0	0	0	0	0	16	0	3	0	0	10	8	0	10	34	0	81	
5:30 PM	0	0	0	0	0	24	0	6	0	0	16	12	0	2	31	0	91	
5:35 PM	0	0	0	0	0	25	0	1	0	0	12	6	0	2	27	0	73	
5:40 PM	0	0	0	0	0	14	0	3	0	0	17	8	0	2	22	0	66	
5:45 PM	0	0	0	0	0	20	0	1	0	0	11	11	0	1	23	0	67	
5:50 PM	0	0	0	0	0	12	0	2	0	0	10	9	0	2	18	0	53	
5:55 PM	0	0	0	0	0	17	0	0	0	0	10	9	0	4	18	0	58	
Count Total	0	0	0	0	0	448	0	58	1	0	370	227	0	123	645	0	1,872	
Peak Hour	0	0	0	0	0	227	0	34	1	0	185	131	0	72	363	0	1,013	1

## Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	lway		Interval	Peo	destrians/E	Bicycles on	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
4:00 PM	0	1	2	0	3	4:00 PM	0	1	0	0	1	4:00 PM	0	0	0	0	0
4:05 PM	0	0	1	2	3	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	0	2	3	0	5	4:10 PM	0	1	0	0	1	4:10 PM	0	0	0	0	0
4:15 PM	0	0	0	2	2	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	0	0	0	1	1	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	0	1	0	1	2	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0	4:35 PM	0	0	0	0	0
4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	0	1	2	0	3	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	0	1	0	0	1	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	0	1	0	0	1	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	0	1	0	1	2	5:15 PM	0	0	0	0	0	5:15 PM	0	0	0	0	0
5:20 PM	0	1	0	0	1	5:20 PM	0	0	0	0	0	5:20 PM	0	0	0	0	0
5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	0	1	0	1	2	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	0	0	0	1	1	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	0	0	0	0	0	5:40 PM	0	0	2	0	2	5:40 PM	0	0	0	0	0
5:45 PM	0	1	0	0	1	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	0	1	1	0	2	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
Count Total	0	12	9	9	30	Count Total	0	2	2	0	4	Count Total	0	0	0	0	0
Peak Hour	0	6	2	2	10	Peak Hour	0	0	0	0	0	Peak Hour	0	0	0	0	0

#### Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD PM



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#### Peak Hour Motorized Vehicles



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Pedestrians

Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD PM

Date: Tuesday, August 18, 2020

Peak Hour: 04:30 PM - 05:30 PM

Peak 15-Minutes: 04:30 PM - 04:45 PM

**Heavy Vehicles** 

Note: Total study counts contained in parentheses.

	HV%	PHF
EB	4.1%	0.82
WB	3.5%	0.91
NB	0.8%	0.82
SB	0.0%	0.75
All	3.4%	0.91

### **Traffic Counts - Motorized Vehicles**

Intonial	SW T	UALATI	N SHERV	VOOD	SW T			VOOD		SW ORE	GON ST		:	SW ORE	GON ST			Polling
Start Time	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	U-Turn	Left	Thru	Right	Total	Hour
4:00 PM	0	0	54	14	0	25	71	2	0	7	0	24	0	2	0	0	199	2,142
4:05 PM	0	0	53	13	0	16	70	1	0	10	0	17	0	0	0	2	182	2,129
4:10 PM	0	1	59	7	0	23	76	0	0	5	0	14	0	1	1	1	188	2,102
4:15 PM	0	0	38	7	0	29	72	0	0	7	0	14	0	0	0	2	169	2,111
4:20 PM	0	0	55	6	0	21	70	0	0	1	0	16	0	1	1	0	171	2,121
4:25 PM	0	0	48	3	0	24	52	0	0	8	0	14	0	1	0	0	150	2,138
4:30 PM	0	0	73	8	0	20	75	0	0	8	0	11	0	0	0	0	195	2,157
4:35 PM	0	1	68	19	0	22	64	2	0	6	0	16	0	2	2	0	202	2,145
4:40 PM	0	1	61	11	0	27	70	0	0	5	0	17	0	0	0	1	193	2,108
4:45 PM	0	0	53	5	0	21	58	0	0	6	0	16	0	3	0	0	162	2,069
4:50 PM	0	0	55	5	0	21	69	0	0	5	0	11	0	1	1	1	169	2,089
4:55 PM	0	0	47	10	0	30	59	0	0	7	0	8	0	0	1	0	162	2,045
5:00 PM	0	0	61	13	0	16	72	0	0	6	0	17	0	0	1	0	186	2,040
5:05 PM	0	2	48	5	0	27	54	1	0	8	0	10	0	0	0	0	155	
5:10 PM	0	0	59	6	0	26	79	1	0	6	0	20	0	0	0	0	197	
5:15 PM	0	1	36	8	0	40	66	0	0	11	0	16	0	0	0	1	179	
5:20 PM	0	0	65	12	0	28	64	0	0	6	0	13	0	0	0	0	188	
5:25 PM	0	0	59	5	0	32	56	1	0	4	1	9	0	1	0	1	169	
5:30 PM	0	0	73	5	0	21	63	0	0	6	0	14	0	0	1	0	183	
5:35 PM	0	0	56	5	0	19	66	2	0	4	0	13	0	0	0	0	165	
5:40 PM	0	1	46	1	0	25	61	2	0	4	0	14	0	0	0	0	154	
5:45 PM	0	1	60	2	0	19	84	3	0	2	0	11	0	0	0	0	182	
5:50 PM	0	1	35	4	0	20	48	1	0	4	1	11	0	0	0	0	125	
5:55 PM	0	1	55	9	0	30	54	0	0	0	1	7	0	0	0	0	157	
Count Total	0	10	1,317	183	0	582	1,573	16	0	136	3	333	0	12	8	9	4,182	_
Peak Hour	0	5	685	107	0	310	786	5	0	78	1	164	0	7	5	4	2,157	_

## Location: 2 SW OREGON ST & SW TUALATIN SHERWOOD RD PM

## Traffic Counts - Heavy Vehicles, Bicycles on Road, and Pedestrians/Bicycles on Crosswalk

Interval		Hea	avy Vehicle	es		Interval		Bicycle	es on Road	dway		Interval	Peo	destrians/E	Bicycles on	Crosswa	lk
Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total	Start Time	EB	NB	WB	SB	Total
4:00 PM	4	2	3	0	9	4:00 PM	0	0	1	0	1	4:00 PM	0	0	0	0	0
4:05 PM	2	2	2	0	6	4:05 PM	0	0	0	0	0	4:05 PM	0	0	0	0	0
4:10 PM	1	4	5	0	10	4:10 PM	0	1	0	0	1	4:10 PM	0	0	0	0	0
4:15 PM	4	0	2	0	6	4:15 PM	0	0	0	0	0	4:15 PM	0	0	0	0	0
4:20 PM	5	0	2	0	7	4:20 PM	0	0	0	0	0	4:20 PM	0	0	0	0	0
4:25 PM	3	0	3	0	6	4:25 PM	0	0	0	0	0	4:25 PM	0	0	0	0	0
4:30 PM	3	0	2	0	5	4:30 PM	0	0	0	0	0	4:30 PM	0	0	0	0	0
4:35 PM	2	0	2	0	4	4:35 PM	1	0	0	0	1	4:35 PM	0	0	0	0	0
4:40 PM	5	0	5	0	10	4:40 PM	0	0	0	0	0	4:40 PM	0	0	0	0	0
4:45 PM	0	0	3	0	3	4:45 PM	0	0	0	0	0	4:45 PM	0	0	0	0	0
4:50 PM	2	0	5	0	7	4:50 PM	0	0	0	0	0	4:50 PM	0	0	0	0	0
4:55 PM	3	0	3	0	6	4:55 PM	0	0	0	0	0	4:55 PM	0	0	0	0	0
5:00 PM	3	0	3	0	6	5:00 PM	0	0	0	0	0	5:00 PM	0	0	0	0	0
5:05 PM	5	0	3	0	8	5:05 PM	0	0	0	0	0	5:05 PM	0	0	0	0	0
5:10 PM	1	0	3	0	4	5:10 PM	0	0	0	0	0	5:10 PM	0	0	0	0	0
5:15 PM	2	1	3	0	6	5:15 PM	0	0	1	0	1	5:15 PM	0	0	0	0	0
5:20 PM	6	1	4	0	11	5:20 PM	0	0	1	0	1	5:20 PM	0	0	0	0	0
5:25 PM	1	0	2	0	3	5:25 PM	0	0	0	0	0	5:25 PM	0	0	0	0	0
5:30 PM	5	0	0	0	5	5:30 PM	0	0	0	0	0	5:30 PM	0	0	0	0	0
5:35 PM	2	0	2	0	4	5:35 PM	0	0	0	0	0	5:35 PM	0	0	0	0	0
5:40 PM	2	0	1	0	3	5:40 PM	0	0	0	0	0	5:40 PM	0	0	0	0	0
5:45 PM	3	1	6	0	10	5:45 PM	0	0	0	0	0	5:45 PM	0	0	0	0	0
5:50 PM	2	0	2	0	4	5:50 PM	0	0	0	0	0	5:50 PM	0	0	0	0	0
5:55 PM	2	0	4	0	6	5:55 PM	0	0	0	0	0	5:55 PM	0	0	0	0	0
Count Total	68	11	70	0	149	Count Total	1	1	3	0	5	Count Total	0	0	0	0	0
Peak Hour	33	2	38	0	73	Peak Hour	1	0	2	0	3	Peak Hour	0	0	0	0	0

## Appendix C

## **Trip Generation Worksheets**





## TRIP GENERATION CALCULATIONS

Land Use: General Light Industrial Land Use Code: 110 Setting/Location General Urban/Suburban Variable: 1,000 Square Feet of Gross Floor Area Variable Quantity: 115.170

## AM PEAK HOUR

Trip Rate: 0.70

	Enter	Exit	Total
Directional Distribution	88%	12%	
Trip Ends	71	10	81

## **PM PEAK HOUR**

Trip Rate: 0.63

	Enter	Exit	Total
Directional Distribution	13%	87%	
Trip Ends	9	64	73

## WEEKDAY

Trip Rate: 4.96

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	286	286	572

## SATURDAY

Trip Rate: 1.99

	Enter	Exit	Tota
Directional Distribution	50%	50%	
Trip Ends	115	115	230

Source: TRIP GENERATION, Tenth Edition



## TRIP GENERATION CALCULATIONS

Land Use: General Light Industrial Land Use Code: 110 Setting/Location General Urban/Suburban Variable: 1,000 Square Feet of Gross Floor Area Variable Quantity: 120.815

## AM PEAK HOUR

Trip Rate: 0.70

	Enter	Exit	Total
Directional Distribution	88%	12%	
Trip Ends	75	10	85

## **PM PEAK HOUR**

Trip Rate: 0.63

	Enter	Exit	Total
Directional Distribution	13%	87%	
Trip Ends	10	66	76

## WEEKDAY

Trip Rate: 4.96

	Enter	Exit	Total
Directional Distribution	50%	50%	
Trip Ends	300	300	600

## SATURDAY

Trip Rate: 1.99

	Enter	Exit	Tota
Directional Distribution	50%	50%	
Trip Ends	120	120	240

Source: TRIP GENERATION, Tenth Edition

# Appendix D Historical Traffic Counts



CITY/STATE:	SW Mu Sherw	urdock vood, C	Rd/SW DR	Baker	Rd S	SW Sur	nset Blv	d/Mcł	Kinley	Dr					QC DATE:	C JOB a Wed,	#: 1454 Oct 25	48501 2017
205 + 238 7 447 + 202	175 61 16 9 00 124 12 316	394 09 5 91 + 33 3 260	. 23 ◆ 44 20 5 ◆ 11	8		Pe Pea	Qua DATA TH	in: 7:15 lin: 7:3	SAM BSAM	- 8:15 / 7:50	AM AM			73 • 34 143 38 • 4	63 82 4) 73 4 44	3.6 6 20 5 66.7 65	• 0 • 4 • 5 • 20 • 2	42 16.7
• <b>1</b>		+ L 1	a		-		<b>↓</b>				<b>€</b>	-		0 0 0			• 0	
+ 3 + 3			• • • • • • • • • • • • • • • • • • •	aker Rd	-	a a urdock F	Ad/SW Ba	iker Rd	I SW Su	♠	الله معنی معنی معنی معنی معنی معنی معنی معنی	- lev Dr	I SW Su	N/A		A C	k ► N/A	
Period Beginning At	Left	(North Thru	nbound) Right	U	Left	(South Thru	nbound) Right	U	Left	(Eastb Thru	ound) Right	U	Left	(West Thru	bound) Right	U	Total	Hourly Totals
7:00 AM 7:05 AM	14 10	5 9	0 0	0 0	0 0	8 5	6 3	0 0	22 18	0 0	8 9	0 0	0 0	0 0	1 4	0 0	64 58	
7:10 AM 7:15 AM	11 12	6	0	0	1	6	3	0	17 15	0	11 16	0	0	0	2	0	57 67	
7:20 AM 7:25 AM 7:30 AM	20 8 12	10 12 7	2	0	0	6 5 9	6 5 2	0	22 17 23	0 0 1	20 18 16	0		2 4 0	1 4 1	0	88 76 74	
7:35 AM 7:40 AM	11 13	14 8	0	0	0	11 12	7	0	24 20	1 0	22 17	0	0	6	2	0	98 75	
7:45 AM 7:50 AM	13 10	14 19	0	0	0	13 10	7	0	17 19	0	<u>13</u> 10	0	0	3 0	<u>3</u> 5	0	83 83	
7:55 AM 8:00 AM	5 2	12 6	0 0	0 0	2 1	7 11	7 4	0 0	17 25	0 1	18 20	0 0	0	0 1	2 0	0 0	70 71	893 900
8:05 AM 8:10 AM	11 7	11 12	0 0	0 0	0 1	7 12	7 2	0 0	24 15	1 1	20 12	0 0	0 0	1 0	0 1	0 0	82 63	924 930
8:15 AM 8:20 AM	8 9	11 9	0 0	0 0	0 0	8 7	3 6	0 0	11 9	2 0	14 16	0 0	0 0	1 1	3 2	0 0	61 59	924 895
8:25 AM 8:30 AM	5 3	7 10	0 0	0 0	02	5 5	9 3	0 0	13 17	1 0	7 13	0 0	0	1 0	1 0	0 0	49 53	868 847
8:35 AM 8:40 AM	1 4	5 7	0	0	1	4 6	4	0	12 21	0	9 13	0	0	0 1	1	0	37 60	786
8:45 AM	8	8	Ö	Ő	1	10	3	Ő	13	Ö	8	Ő	0	2	2	0	55	743
8:55 AM	6	6	0	0	0	5	3	0	17	1	8	0	0	1	0	0	42	696
Peak 15-Min Flowrates	1 oft	North	bound Bight	11	l oft	South	Bight		L off	Eastb	ound Bight		Loft	West	bound Bight	11	To	tal
All Vehicles Heavy Trucks	148 4	144 4		0		144 4	60 4	0	244 4	4 0	208 0	0	4 0	44 0	24 0	0	10	24 0
Buses Pedestrians Bicycles Scooters	0	4 0	0		0	0 0	0		0	0 0	0		0	0 0	0		2	1 D
Commonts:																		

Report generated on 12/23/2020 12:35 PM

CITY/STATE:	SW Mu Sherw	irdock Jood, C	Rd/SW )R	Baker	Rd 5	sw Sur	iset Blv	a/wici	Ciniey	Dr					DATE:	Wed,	<b>#</b> : 1454 Oct 25	48502 5 2017
563 + 92 12 258 + 154	422 251 14 9 00 293 12 296	242 11 30 20 4 434	15 ← 35 19 1 → 48	5		Pe Pea	eak-Hou ak 15-M Qua	lin: 5:0	5 PM	- 5:45 5:20 unts	PM PM			2 • 0 0 27 • 45	19 2 2 2 3 4 2 1 37		• 0 • 100 •	29 0
1	       	• L • T	a		-	SU	<b>↓</b>				<b>a</b>	i.		0 0 0		e 10 10	• 0 • 0	
+ 3 N/A +			N/A +			en.	* *			₽	<b>a</b>			N/A			► N/A	t
5-Min Count Period Beginning At	SW Mu	Jrdock R (North Thru	td/SW Ba bound) Right	aker Rd	SW Mi	urdock F (South Thru	Right	u U	SW Su	nset Blv (Eastb Thru	d/McKin bound) Right	ley Dr U	SW Su	West (West) Thru	vd/McKin bound) Right	lley Dr U	Total	Hourly Totals
4:00 PM 4:05 PM 4:10 PM 4:15 PM 4:20 PM 4:25 PM 4:30 PM 4:35 PM 4:30 PM 4:45 PM 4:50 PM	16 13 16 21 14 24 19 14 24 24 25 26	9 11 11 6 7 6 12 8 11 13 12	0 0 0 1 1 0 0 1 0 0		1 2 4 3 1 1 1 1 1 1 2 0 2	8 10 11 8 15 5 13 14 11 17 11	14 17 18 16 23 12 10 18 16 28 27		10 8 4 9 8 7 6 7 2 12 6	0 2 3 0 0 1 0 0 0 0 0	10 12 9 7 9 2 16 13 10 9 17		0 0 0 0 0 0 0 0 0 0	2 0 0 1 0 0 1 0 0 0 2 2 2	1 0 0 1 0 0 0 0 0 0 0 0 0		71 75 76 71 79 59 78 75 76 107	
4:55 PM 5:00 PM 5:05 PM 5:10 PM	25 14 25 34	14 9 13 14	1 1 0 1	0 0 0 0 0	3 1 5 5	8 12 11 14	26 14 19 15	0 0 0 0	11 5 9 6	1 0 1 2	10 11 17 16	0 0 0 0 0	0 0 1	1 1 2 4	2 3 0 0	0 0 0 0 0	102 71 102 112	976 976 1003 1039
5:20 PM 5:25 PM 5:30 PM 5:35 PM 5:40 PM 5:45 PM	29 27 20 23 26 21	4 6 12 10 14 11	1 0 1 1 0 0	0 0 0 0 0 0	0 5 2 1 1 0	6 14 12 9 13 15	20 17 21 20 22 16	0 0 0 0 0 0	4 10 9 5 6 6	3 2 0 1 1 0	10 14 16 7 11 10	0 0 0 0 0 0	0 0 0 0 0 0	1 0 1 1 2 0	1 0 2 0 0 2	0 0 0 0 0 0	79 95 96 78 96 81	1072 1108 1126 1129 1149 1123
5:50 PM 5:55 PM	20 15	7 9	0 0	0 0	3 2	8 9	16 20	0 0	9 6	2 1	10 8	0 0	0 0	0 0	0 2	0 0	75 72	1091 1061
Peak 15-Min Flowrates	Left	North Thru	bound Right	U	Left	South Thru	bound Right	U	Left	Eastb Thru	ound Right	U	Left	West Thru	bound Right	U	То	tal
				0	60	156	224	0	96	12	196	0	4	32	12	0	12	72
All Vehicles Heavy Trucks Buses Pedestrians	312 8	164 0 0	4 0	U	0	8 0	0		0	0 0	8		4	0 0	0		2	.8

Report generated on 12/23/2020 12:35 PM

LOCATION: 0 CITY/STATE:	Oregon Washi	St T ngton	「ualatin , OR	-Sherv	wood F	۲d									QC DATE:	C <b>JOB</b> a Wed,	<b>#:</b> 1489 Feb 13	98001 2019
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← 3 N/A → + 3			* N/A *		2-				Тиз	₹ ↑ [		Rd	Tue	N/A		A L	► N/A	
Period Beginning At	Left	(North Thru	bound) Right	U	Left	(South Thru	bound) Right		Left	(Eastl Thru	bound) Right	U	Left	(West Thru	bound) Right	U	Total	Hourly Totals
7:00 AM	4	0	35	0	0	0	0	0	0	73	9	0	9	37	0	0	167	
7:10 AM	2	0	24	0	1	0	0	0	1	69	9	0		42	0	0	142	
7:15 AM 7:20 AM	5	0	34	0	0	0	0	0	2	60	7	0	10	35	0	0	149	
7:25 AM 7:30 AM	9 5	1 0	17 25	0 0	01	0 0	0 0	0 0	0	61 63	13 18	0 0	10 8	60 45	0 0	0 0	171 165	
7:35 AM 7:40 AM	9 6	0 0	29 29	0 0	0 0	0 0	0 0	0 0	0	43 64	11 4	0 0	9 5	32 41	0 2	0 0	133 151	
7:45 AM 7:50 AM	7	0 0	27 33	0 0	0 0	0 0	0 0	0 0	2	44 61	13 5	0 0	13 11	50 44	0 1	0 0	156 165	
7:55 AM 8:00 AM	8 11	1 1	33 28	0 0	0	0 0	0 0	0 0	1 0	62 58	7 12	0 0	10 6	39 42	0 3	0 0	161 161	1864 1858
8:05 AM	5	0	34	0	2	0	0	0	1	54	8	0	10	49	0	0	163	1879
8:15 AM	3	0	27	0	1	0	0	0	0	44	13	0	12	48	0	0	148	1870
8:25 AM	8	0	19	0	1	0	0	0	0	60	10	0	16	34	4	0	152	1836
		0	24	0		1 0	0 0	0 0	0	54 62	8 7	0	15 8	44 41	1 0	0 0	152 147	1823 1837
8:30 AM 8:35 AM	5	1	21	0			0	0	1 0	56	5	0	7	54	2	Ο	154	19/0
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8:30 AM 8:35 AM 8:40 AM 8:45 AM 8:50 AM 8:55 AM	5 7 12 6 6 8	1 0 0 0	21 18 39 24 8	0 0 0 0		0 0 0	0	0	1 0 1	53 45 58	8 4 1	0 0 0	8 11 7	43 42 43	0 1 1	0	158 133 128	1840 1842 1810 1777
8:30 AM 8:35 AM 8:40 AM 8:45 AM 8:50 AM 8:55 AM Peak 15-Min	5 7 12 6 6 8	1 0 0 1 <b>North</b>	21 18 39 24 8 <b>bound</b>	0 0 0 0	0 0 0 0	0 0 0 0 <b>South</b>	0 0 0 0 <b>bound</b>	0 0 0	1 0 1	53 45 58 Eastl	8 4 1 <b>Dound</b>	0 0 0	8 11 7	43 42 43 <b>West</b>	0 1 1 <b>bound</b>	0 0 0	158 133 128	1840 1842 1810 1777
8:30 AM 8:35 AM 8:40 AM 8:50 AM 8:55 AM Peak 15-Min Flowrates	5 7 12 6 8 <b>Left</b>	1 0 0 1 <b>North</b> Thru	21 18 39 24 8 <b>bound</b> Right	0 0 0 0 0 U	0 0 0 0 Left	0 0 0 South Thru	0 0 0 bound Right	0 0 0 U	1 0 1 Left	53 45 58 Eastl Thru	8 4 1 Dound Right	0 0 0 U	8 11 7 Left	43 42 43 West Thru	0 1 <b>bound</b> Right	0 0 0 U	158 133 128 Tot	1840 1842 1810 1777 tal
8:30 AM 8:35 AM 8:40 AM 8:45 AM 8:50 AM 8:55 AM Peak 15-Min Flowrates All Vehicles Heavy Trucks Buses	5 7 12 6 8 <b>Xeft</b> 12	1 0 0 1 <b>North</b> Thru 4 0	21 18 39 24 8 <b>bound</b> <b>Right</b> 304 8	0 0 0 0 0 <b>U</b>	0 0 0 0 <b>Left</b>	0 0 0 0 0 0 0 0	bound Right	U 0 0 0 0	1 0 1 Left 8 0	53 45 58 Easth Thru 736 72	8 4 1 500und Right 152 20	0 0 0 U	8 11 7 Left 120 16	43 42 43 West Thru 560 88	0 1 1 bound Right 0 0	0 0 0 U	158 133 128 Tot	1840 1842 1810 1777 tal
8:30 AM 8:35 AM 8:40 AM 8:50 AM 8:55 AM Peak 15-Min Flowrates All Vehicles Heavy Trucks Buses Pedestrians Bicycles Scooters	5 7 12 6 8 <b>Left</b> 12 0	1 0 0 1 <b>North</b> Thru 4 0 0 0	21 18 39 24 8 <b>bound</b> <b>Right</b> 304 8 4	0 0 0 0 0 0	0 0 0 0 <b>Left</b> 4 4 4 0	0 0 <b>South</b> Thru 0 0 4 0	bound Right	0 0 0 U 0	1 0 1 Left 0	53 45 58 Eastl Thru 736 72 4 4	8 4 1 000und Right 152 20 0	0 0 0 <b>U</b>	8 11 7 Left 120 16 0	43 42 43 West Thru 560 88 0 0	0 1 1 bound Right 0 0	0 0 0 U	158 133 128 Tot 22 8 8 8	1840 1842 1810 1777 tal

Report generated on 12/16/2020 12:11 PM

LOCATION: 0 CITY/STATE:	Oregor Washi	n St <sup>-</sup> ngton	Tualatin , OR	-Sherv	wood F	₹d									QC DATE:	C <b>JOB</b> i Wed,	<b>‡:</b> 1489 Feb 13	98002 2019
959 • 7 . 685 • 807 • 115 •	29 * 8 10 • • • • • • • • • • • • •	16 + 11 + - - - - - - - - - - - - -	8 ← 1214 829 377 ◆ 871	1		Pe Pea	eak-Hou ak 15-M Data TH	in: 4:4! lin: 5:0	5 PM	- 5:45 F 5:15 unts	PM PM			3 ★ 0 32 38 ★ 78		0 0 2 34 37	• 29 • 19 •	26
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× 3 N/A + + 3		Ores	→ N/A →		-	Oreg	on St		Tua	f  *	First State	Rd	Tua	N/A		A C	N/A	
Period Beginning At	Left	(North Thru	ibound) Right	U	Left	(South Thru	bound) Right	U	Left	(Eastb Thru	oound) Right	U	Left	(West Thru	bound) Right	U	Total	Hourly Totals
4:00 PM 4:05 PM 4:10 PM 4:15 PM 4:20 PM 4:25 PM 4:30 PM 4:35 PM 4:340 PM 4:40 PM	5 12 12 6 9 6 6 11 6 12	0 0 0 0 1 0 0 1 0 1	11 15 22 7 14 9 7 12 13 20	0 0 0 0 0 0 0 0 0 0 0	0 0 3 2 1 0 1 0 1 1	0 1 1 0 0 1 0 0 0 0	1 0 0 0 2 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1	62 58 49 64 42 43 57 62 46 46	11 11 8 7 13 11 9 13 9 13 9	0 0 0 0 0 0 0 0 0 0 0	25 20 29 24 29 26 33 22 36 25	70 55 65 63 68 62 78 55 77 64	0 0 0 0 2 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	185 172 189 174 176 163 191 175 191 180	
4:50 PM 4:55 PM	13 13	0 0	8 14	0 0	1	0 1	0	0 0	0	54 58	12 7	0	31 29	70 61	0	0	189 184	2169
5:00 PM 5:05 PM 5:10 PM	10 10	0	23 22	0 0	4 0 3	2 1 4	0 1 2	0 0	0 1	64 74 68	12 17 9	0	28 27 28	67 62 74	0 2 1	0 0 0	194 217 222	2178 2223 2256
5:15 PM 5:20 PM 5:25 PM 5:30 PM 5:35 PM 5:40 PM 5:45 PM	10 8 9 10 16 6 5	0 0 1 0 0	19 11 8 15 11 12 13	0 0 0 0 0 0	0 0 1 0 0 0	0 0 2 0 0 0	1 1 0 1 1 1 1 0	0 0 0 0 0 0	1 0 1 1 1 2 0	58 52 50 50 54 57 46	7 9 9 12 7 3 6	0 0 0 0 0 0	32 37 31 35 34 40 32	59 79 76 66 69 82 66	0 1 0 3 0 0 1	0 0 0 0 0 0	187 198 184 197 193 203 169	2269 2291 2312 2318 2336 2348 2337
5:50 PM 5:55 PM	11 7	0 0	13 14	0 0	1 1	0 0	0 0	0 0	0 1	45 52	4 6	0 0	27 17	64 74	1 1	0 0	166 173	2314 2303
Peak 15-Min Flowrates	Left	North Thru	ibound Right	U	Left	South	bound Right	U	Left	Eastb <u>Thr</u> u	ound Right	U	Left	Westl Thru	bound Right	U	To	tal
All Vehicles Heavy Trucks Buses	100 4	0 0	228 8	0	28 0	28 0	12 0	0	4 0	824 40	152 20	0	332 4	812 8	12 0	0	25 8	32 4
Pedestrians Bicycles Scooters	0	0 0	0		0	0 0	0		0	0 4	0		0	0 0	0		( 2	)

Report generated on 12/16/2020 12:11 PM

LOCATION: CITY/STATE:	Tonqui Wash	in Rd - ington	- Oregoı , OR	n St											QC DATE:	C <b>JOB</b> ( Wed,	<b>#</b> : 1489 Feb 13	98023 2019
217 ★ 0 394 734 ★ 340	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 ← 185 97 92 ← 464	9		Pe Pe	eak-Hou ak 15-M Qua Data Th	in: 7:05 lin: 7:4		- 8:05 / 8:00	AM AM			115 ← 0 15 12 ← 09		C 0 243 153	0 • 1 • 134 • 12 •	27
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N/A + + + + + + + + + + + + + + + + + + +		A C	. ← N/A · ←		-	Tong	+ + -			Oreg	and St			N/A Oreg	y on St		N/A	Hourly
Beginning At	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	lotal	Totals
7:00 AM	3	0	6	0	0	0	0	0	0	36	25	0	6	4	0	0	80	
7:05 AM 7:10 AM 7:15 AM 7:20 AM 7:25 AM 7:30 AM 7:35 AM 7:40 AM	9 8 9 11 13 12 5 7	0 0 0 0 0 0 0	7 3 7 5 3 7 2 7	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	30 37 40 26 29 31 25 28	23 27 24 33 35 24 36 25	0 0 0 0 0 0 0	9 5 10 9 10 14 8 6	5 4 6 14 8 7 7	0 0 0 0 0 0 0	0 0 0 0 0 0 0	83 84 96 90 104 96 83 80	
7:45 AM 7:50 AM	18 5	0	8 7	0	0	0	0	0	0	36 39	25 24	0	10 4	12 10	0	0	109 89	
7:55 AM	13	0	9	0	0	0	0	0	0	43	27	0	1	9	0	0	102	1096
8:05 AM	10	0	5	0	0	0	0	0	0	25	17	0	11	6	0	0	74	1104
8:10 AM 8:15 AM	5 7	0 0	9 7	0 0	0	0 0	0 0	0 0	0	26 22	13 11	0 0	7 11	4 7	0 0	0 0	64 65	1084 1053
8:20 AM	11	0	4	0	0	Ō	0	0	0	19	21	0	7	12	0	0	74	1037
8:30 AM	7	0	5	0	0	0	0	Ö	0	19	16	0	11	14	0	0	72	978
8:35 AM 8:40 AM	8 4	0 0	6 10	0 0	0	0 0	0 0	0 0	0	21 30	8 10	0 0	3 7	11 7	0 0	0 0	57 68	952 940
8:45 AM	13 ø	0	6 7	0	0	0	0	0	0	31 22	11 9	0	5 1	9 9	0	0	75 50	906 876
8:55 AM	9	0	7	0	0	0	0	0	0	10	2	0	0	10	0	1	39	813
			hound			Sout	nbound			Eastb	ound			West	bound		Ta	
Peak 15-Min	4-1	North			4.1	TI	D:-L+		1.4	TL	Dialet		1.4	TL	Dicht	11	1 10	tal I
Peak 15-Min Flowrates	Left	North Thru	Right	U	Left	Thru	Right	U	Left	Thru 472	Right	0	Left	Thru 124	Right	U	10	tal
Peak 15-Min Flowrates All Vehicles Heavy Trucks Buses Pedestrians	Left 144 16	North Thru 0 0	Right 96 32	U 0	Left 0 0	<b>Thru</b> 0 0	Right 0 0	0	Left 0 0	Thru 472 4	<b>Right</b> 304 4	0	Left 60 4	Thru 124 16 0	Right 0 0	U 0	10 12 7	00 6

Report generated on 12/16/2020 12:11 PM

LOCATION: T CITY/STATE:	Fonqui Washi	n Rd - ington	- Oregoı , OR	n St											QC DATE:	C <b>JOB</b> i Wed,	<b>‡:</b> 1489 Feb 13	98024 2019
728 • 0 . 178 • 311 • 133 •	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 + 529 405 124 + 266	9		Pe Pea	eak-Hou ak 15-M Qua DATA TH	ir: 4:40 lin: 5:0	D PM	- 5:40 F 5:20	PM PM			1 + 0 39 35 + 3			• 0 • • 12 • 113 •	3.6
• ]	       	→ L → [	a			<b>510</b>	Ż					-		0 0 0			• 1 • 0	
5-Min Count			· ↓ N/A · ↓ uin Rd		-	Tonq	→ →     uin Rd			Oreg	on St			N/A Oreg			N/A	Hourly
Period Beginning At	Left	(North Thru	Right	U	Left	(South Thru	Right	U	Left	(Eastb Thru	Right	U	Left	(West Thru	bound) Right	U	Total	Totals
4:00 PM 4:05 PM 4:10 PM 4:15 PM 4:20 PM 4:25 PM 4:30 PM 4:35 PM	21 20 25 21 31 31 25 23	0 0 0 0 0 0 0	9 7 7 6 4 10 5	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	10 13 19 12 8 12 7 16	13 10 10 11 8 16 14 18	0 0 0 0 0 0 0	13 10 10 11 10 9 12 6	24 28 23 34 20 30 26	0 0 0 0 0 0 0	0 0 0 0 0 0 0	90 88 99 85 97 92 98 94	
4:40 PM 4:45 PM 4:50 PM 4:55 PM 5:00 PM	16 26 42 23 27	0 0 0 0 0	8 4 9 13 2	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	14 10 13 10 17	12 8 10 9 5	0 0 0 0 0	7 11 10 10 13	44 31 23 34 29	0 0 0 0 0	0 0 0 0 0	101 90 107 99 93	1140 1143
5:05 PM 5:10 PM 5:15 PM 5:20 PM 5:25 PM 5:30 PM	25 35 27 26 24	0 0 0 0 0	7 8 7 9 4 8	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	23 24 12 14 10 17	16 8 12 15 8 18	0 0 0 0 0	17 15 8 7 10 10	28 44 31 32 37 34	0 0 0 0 0	0 0 0 0 0	110 124 105 104 95 111	1165 1190 1210 1217 1220 1233
5:35 PM 5:40 PM 5:45 PM 5:50 PM 5:55 PM	33 26 14 24 25	0 0 0 0	9 3 5 9 5	0 0 0 0 0	0 0 0 0 0	0 0 0 0		0 0 0 0 0	0 0 0 0 0	14 15 13 16 15	12 11 7 7 11	0 0 0 0 0	6 2 6 2 9	38 38 38 27 22	0 0 0 0 0	0 0 0 0 0	112 95 83 85 87	1251 1245 1238 1216 1204
Peak 15-Min Flowrates	Left	North Thru	Right	U	Left	South Thru	Dound Right	U	Left	Eastb Thru	ound Right	U	Left	West Thru	pound Right	U	To	tal
All Vehicles Heavy Trucks Buses Pedestrians	316 0	0 0	88 4	0	0 0	0 0	0	0	0 0	236 0	144 4	0	160 12	412 4	0	0	13 2	56 4
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		(	)

Report generated on 12/16/2020 12:11 PM

LOCATION: I CITY/STATE:	Murdo Washi	ck Rd ngton	Orego , OR	on St											QC DATE:	C <b>JOB</b> i Wed,	<b>#:</b> 1489 Feb 13	98025 2019
230 • 1 . 349 398 • 48	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 + 0 - - - - - - - - - - - - -	0 ← 224 154 70 ← 737	1		Pe Pea	eak-Hou ak 15-M	In: 7:05	5 AM	- 8:05 / 8:00	AM AM			7 <b>*</b> 0 17 18 <b>*</b> 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 + 1 9.7 129 + 1	0.7
0 ]		+ L	a		-					ļ	و	-		0 3 0			• 0 • 0	
S-Min Count Period		Murd	· ← N/A · ←		-	Murd	ock Rd			Oreg (Fasth	on St	-		N/A Oreg	gon St		N/A Total	Houriy
Beginning At	Left	(Nortr Thru	Right	U	Left	(Soutr Thru	Right	U	Left	Thru	Right	U	Left	(west Thru	Right	U	lotal	Totals
7:00 AM 7:05 AM 7:10 AM 7:15 AM 7:20 AM 7:25 AM 7:30 AM 7:35 AM 7:40 AM	3 4 3 6 6 12 14 7	0 0 0 0 0 0 0 0 0	35 29 38 38 27 31 32 26 30	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	29 21 27 26 32 36 24 33 25	2 2 5 3 2 2 4 5 5 5	0 0 0 0 0 0 0 0	4 3 4 3 13 6 6 1	4 10 9 11 15 15 19 7 12	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	77 69 86 84 85 103 97 91 80	
7:45 AM 7:50 AM	6 3	0 0	29 35	0 0	0	0 0	0 0	0 0	0	32 27	5 7	0 1	8 6	19 14	0 0	0 0	99 93	
7:55 AM 8:00 AM	4	0	40 33	0	0	0	0	0	0	34 32	7	0	9	11 12	0	0	105 93	1069 1085
8:05 AM	1	0	22	0	0	0	0	0	0	19 11	5	0	8	9	0	0	64	1080
8:15 AM	1	0	20 17	0	0	0	0	0	0	16	1	0	4	5	0	0	54 48	1048
8:20 AM 8:25 AM	2 7	0 0	19 25	0 0	0	0 0	0 0	0 0	0	22 13	3 1	0 0	10 11	12 9	0 0	0 0	68 66	995 958
8:30 AM 8:35 AM	1 5	0 0	21 18	0 0	0	0 0	0 0	0 0	0	13 10	4 2	0 0	12 13	7 6	0 0	1 0	59 54	920 883
8:40 AM 8:45 AM	4	0 0	25 30	1 0	0	0 0	0 0	0 0	0	15 11	5 2	0 0	5 12	9 10	0 0	0	64 67	867 835
8:50 AM	2	Õ	21	Ő	Ö	Ő	Ö	Ő		10	1	Ő	8	9	Ő	0	51	793
0:55 AIVI Peak 15-Min	ŏ	North	ہ bound	U	U	South	bound	U	U	∠ Eastb	∠ oound	U	ŏ	West	bound	U	ЪŎ	. /20
Flowrates	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	To	tal
All Vehicles Heavy Trucks Buses	52 4	0 0	416 4	0	0 0	0 0	0 0	0	0 0	372 4	76 4	4	92 16	176 16	0 0	0	11 4	88 8
Pedestrians	0	0 0	0		0	0 0	0		0	0 4	0		0	0 0	0		( 2	) 1
Bicycles Scooters	Ŭ																	

Comments:

Report generated on 12/16/2020 12:11 PM

LOCATION: N CITY/STATE:	Murdo Washi	ck Rd ngton	Orego , OR	n St											QC DATE:	: <b>JOB</b> i Wed,	<b>#:</b> 1489 Feb 13	98026 2019
440 • 0 . 162 • 244 • 82	0 0 0 4 4 78 0 455	0 0 1 0 1 1 56 - 234	0 ← 735 362 373 → 318			Pe Pea	eak-Hou ak 15-M	in: 4:50 lin: 5:3		- 5:50 I 5:25	PM PM			02 ← 0 25 15 ← 0		0 0 4 38 26	• 03 • 05 •	04
• ]		+ L	a		-						٤	-		0 0 0		2 0 0	0 0 0	P
N/A +			N/A		-	Murd	• ock Rd			Oreg	on St	-		N/A Oreg	son St	A . [	► N/A	Hourly
Period Beginning At	Left	(North Thru	nbound) Right	U	Left	(South Thru	ibound) Right	U	Left	(Eastb Thru	ound) Right	U	Left	(West Thru	bound) Right	U	Total	Totals
4:00 PM 4:05 PM 4:10 PM 4:15 PM 4:20 PM 4:25 PM 4:30 PM 4:35 PM 4:35 PM 4:40 PM 4:45 PM	6 4 1 3 5 3 1 2 5 7	0 0 0 0 0 0 0 0 0 0 0	12 17 14 8 11 12 13 10 10	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	10 10 12 9 8 17 10 19 16 8	4 5 2 13 17 9 8 4 11 6	0 0 0 0 0 0 0 0 0	27 13 32 28 30 23 31 21 32 27	21 34 22 17 34 31 24 30 25 32	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	80 78 86 84 102 94 86 89 99 99	
4:50 PM 4:55 PM 5:00 PM 5:05 PM 5:10 PM	5 10 18 4 9	0 0 0 0	14 10 14 17 14	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	11 7 8 21 18	5 8 9 4 5	0 0 0 0	30 28 25 23 38	40 28 34 21 32	0 0 0 0	0 0 0 0	105 91 108 90 116	1084 1112 1124 1154
5:15 PM 5:20 PM	2 4	0 0	7 15	0 0	0 0	0 0	0 0	0 0	0 0	21 13	10 7	0 0	36 29	31 26	0 0	0 0	107 94	1177 1169
5:25 PM 5:30 PM 5:35 PM 5:40 PM 5:45 PM 5:50 PM	5 10 7 0 4	0 0 0 0 0	7 16 14 10 18 17	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	13 16 11 15 8 7	3 8 5 6 12 3	0 0 0 0 0	31 32 37 34 30 22	34 28 34 28 26 26	0 0 0 0 0	0 0 0 0 0	93 110 108 93 98 76	1168 1192 1211 1205 1213 1184
5:55 PM	3	Ö	10	Ō	0	0	0 bound	Ō	Ō	17 East	11	Ō	21	30	Ö	Ō	92	1185
Peak 15-Min Flowrates	Left	Thru	Right	U	Left	South Thru	Right	U	Left	Eastb Thru	Right	U	Left	Thru	Right	U	То	tal
All Vehicles Heavy Trucks Buses	Left         Thru         Right         U           60         0         144         0           0         0         4         0					0 0	0 0	0	0 0	208 12	88 0	0	412 4	356 0	0 0	0	12 2	68 0
Pedestrians Bicycles Scooters	0	0 0	0		0	0 0	0		0	0 0	0		0	0 0	0		(	) )

Report generated on 12/16/2020 12:11 PM

# Appendix E ODOT Crash Data Reports



		INVSTG AGY	CRASH SPEE			LANE RDWY			С	RASH HR								HWY COMP	1				
CRASH_		_SHORT_DES	5 D_INVLV_FL ALCHL_IN	N DRUG_IN MJ_INVL	SCHL_ZO WRK_ZO	DPRT CRASH UNLO	ост		CRASH_W S	HORT_DES		CITY_SECT	URB_AREA_SHOR			RDWY_N		HWY_CO T_SHORT_DE	MLGE_TY	RD_CON			
D	INT_ID	SER_NO C	G VLV_FLG	VLV_FLG V_FLG	NE_IND NE_IND	FLG FLG	С	RASH_DT	K_DAY_CD C		CNTY_NM	_NM	T_NM	HWY_NO	HWY_MED_NM	0	FC_CD	MPNT_CD_SC	P_CD	_NO	LRS VAL	MP_NO	ST_NO
169185	1 1	L 2711 CITY	0 0	0 0	0 0	N FAI	.SE	4/25/2016	2 1	0A	Washington	Sherwood	PORTLAND UA				14						1803
169185	1	2711 CITY	0 0	0 0	0 0	N FAI	SE	4/25/2016	2 1	0A	Washington	Sherwood	PORTLAND UA				14						1803
175472		2711 CITY	0 0	0 0	0 0	N FAI	SE	5/9/2017	3 1	P	Washington	Sherwood	PORTLAND UA				14						1803
1/54/2	5 1	2/11 CITY	0 0	0 0	0 0	N FAI	SE CE	5/9/201/	3 1	P	Washington	Sherwood	PORTLAND UA				14						1803
158102	1	3076 CITY	0	0 0	0 0	N FAI	SE	6/2/2014	2 7	Δ	Washington	Sherwood	PORTLAND UA				16		-				1803
158102	1	3076 CITY	0 0	0 0	0 0	N FAI	SE	6/2/2014	27	A	Washington	Sherwood	PORTLAND UA				16						1803
160763	3 1	2200 NO RPT	0 0	0 0	0 0	N FAI	SE	4/25/2015	7 3	P	Washington	Sherwood	PORTLAND UA				14						1803
160763	3 1	2200 NO RPT	0 0	0 0	0 0	N FAI	SE .	4/25/2015	73	P	Washington	Sherwood	PORTLAND UA				14						1803
160763	3 1	2200 NO RPT	0 0	0 0	0 0	N FAI	SE.	4/25/2015	73	Р	Washington	Sherwood	PORTLAND UA				14						1803
167299	5 1	L 5457 CITY	0	1 0	0 0	N FAI	SE.	8/16/2016	3 8	P	Washington	Sherwood	PORTLAND UA				14						1803
167299	5 1	L 5457 CITY	0	1 0	0 0	N FAI	.SE	8/16/2016	3 8	P	Washington	Sherwood	PORTLAND UA				14						1803
167299	5 1	L 5457 CITY	0	1 0	0 0	N FAI	.SE	8/16/2016	38	P	Washington	Sherwood	PORTLAND UA				14						1803
170367	1 1	8530 NO RPT	0 0	0 0	0 0	N FAI	SE 1	12/12/2016	2 1	P	Washington	Sherwood	PORTLAND UA				14						1803
170367		1714 CITY	0 1		0 0	IN FAI	CE 1	2/26/2015	2 1	P D	Washington	Sherwood	PORTLAND UA				14						1803
172866	1	1714 CITY	0	0 0	0 0	N FAI	SE	3/26/2017	1 4	P D	Washington	Sherwood	PORTLAND UA				14						1803
172866		1714 CITY	0 0	0 0	0 0	N FAI	SE	3/26/2017	14	P	Washington	Sherwood	PORTLAND UA				14						1803
177549	5 1	16 CITY	0 0	0 0	0 0	N FAI	SE	1/2/2018	3 4	P	Washington	Sherwood	PORTLAND UA				14						1803
177549	5 1	16 CITY	0 0	0 0	0 0	N FAI	SE	1/2/2018	3 4	P	Washington	Sherwood	PORTLAND UA				14						1803
182375	/ 1	1 7005 NONE	0 0	0 0	0 0	N FAI	SE 1	12/20/2018	5 3	Р	Washington	Sherwood	PORTLAND UA				14						1803
182375	/ 1	1 7005 NONE	0 0	0 0	0 0	N FAI	SE 1	12/20/2018	5 3	P	Washington	Sherwood	PORTLAND UA				14						1803
163188	3 1	1 979 CITY	0	1 0	0 0	N FAI	SE.	2/22/2015	19	A	Washington	Sherwood	PORTLAND UA				16						1803
163188	3 1	I 979 CITY	0	1 0	0 0	N FAI	SE.	2/22/2015	19	A	Washington	Sherwood	PORTLAND UA				16						1803
163813	5 1	L 4231 CITY	0 0	0 0	0 0	N FAI	.SE	7/27/2015	2 7	A	Washington	Sherwood	PORTLAND UA				16						1803
163813		4231 CITY	0 0	0 0	0 0	N FAI	SE .	7/27/2015	2 7	A	Washington	Sherwood	PORTLAND UA				16						1803
156462		1514 CITY	0 0	0 0	0 0	N FAI	SE	3/16/2014	11	P	Washington	Sherwood	PORTLAND UA				16						1803
166225		2205 CITY	0 0	0 0	0 0	N FAI	SE CE	3/10/2014	1 1 E 0	P A	Washington	Sherwood	PORTLAND UA				10						1803
166325	1	2295 CITY	0	0 0	0 0	N FAI	SE	4/7/2010	5.8	Δ	Washington	Sherwood	PORTLAND UA				14		-				1803
168391		8136 CITY	0 0	0 0	0 0	N FAI	SE 1	11/28/2016	2 8	A	Washington	Sherwood	PORTLAND UA				14						1803
168391	3 1	8136 CITY	0 0	0 0	0 0	N FAI	SE 1	11/28/2016	28	A	Washington	Sherwood	PORTLAND UA				14						1803
168391	3 1	1 8136 CITY	0 0	0 0	0 0	N FAI	SE 1	11/28/2016	28	A	Washington	Sherwood	PORTLAND UA				14						1803
171817	3 1	1296 CITY	0 0	0 0	0 0	N FAI	SE.	3/7/2017	3 2	Р	Washington	Sherwood	PORTLAND UA				14						1803
171817	3 1	1296 CITY	0 0	0 0	0 0	N FAI	SE.	3/7/2017	3 2	Р	Washington	Sherwood	PORTLAND UA				14						1803
171817	3 1	1296 CITY	0 0	0 0	0 0	N FAI	SE.	3/7/2017	3 2	P	Washington	Sherwood	PORTLAND UA				14						1803
171817	3 1	1296 CITY	0 0	0 0	0 0	N FAI	.SE	3/7/2017	3 2	Р	Washington	Sherwood	PORTLAND UA				14						1803
171817		1296 CITY	0 0	0 0	0 0	N FAI	SE .	3/7/2017	3 2	P	Washington	Sherwood	PORTLAND UA				14						1803
172120		2293 CITY	0 1		0 0	IN FAI	SE CE	6/4/2017	10	P	Washington	Sherwood	PORTLAND UA				14						1803
173130	2 1	3293 CITY	0	0 0	0 0	N FAI	SE	6/4/2017	16	p	Washington	Sherwood	PORTLAND UA				14						1803
175150		992 NONE	0 0	0 0	0 0	N FAI	SE	2/21/2017	3 U	JNK	Washington	Sherwood	PORTLAND UA				14						1803
175152	1	992 NONE	0 0	0 0	0 0	N FAI	SE	2/21/2017	3 U	INK	Washington	Sherwood	PORTLAND UA				14						1803
175330	3 1	2036 CITY	0 0	0 0	0 0	N FAI	SE	4/10/2017	2 1	P	Washington	Sherwood	PORTLAND UA				14						1803
175330	3 1	2036 CITY	0 0	0 0	0 0	N FAI	.SE	4/10/2017	2 1	Р	Washington	Sherwood	PORTLAND UA				14						1803
159440	/ 1	1 7059 CITY	0 0	0 0	0 0	N FAI	SE 1	11/22/2014	7 5	Р	Washington	Sherwood	PORTLAND UA				16						1803
159440	1 1	1 7059 CITY	0 0	0 0	0 0	N FAI	SE 1	11/22/2014	7 5	Р	Washington	Sherwood	PORTLAND UA				16						1803
159440	1 1	7059 CITY	0 0	0 0	0 0	N FAI	SE 1	11/22/2014	75	Р	Washington	Sherwood	PORTLAND UA			-	16		-			L	1803
159440		7059 CITY	0 0	0 0	0 0	N FAI	SE 1	11/22/2014	7 5	P	Washington	Sherwood	PORTLAND UA				16						1803
159440		7059 CITY	0 0	0 0	0 0	N FA	SE 1	11/22/2014	75	r D	Washington	Shorwood	PORTLAND UA				16						1803
161085		3704 CITY		0 0	0 0	N FAI	SF J	7/3/2014	6 0	p l	Washington	Sherwood	PORTLAND UA			-	10						1803
161085	1	3704 CITY	0 0	0 0	0 0	N FAI	SE	7/3/2015	69	P	Washington	Sherwood	PORTLAND UA				14						1803
161085	2 1	3704 CITY	0 0	0 0	0 0	N FAI	SE	7/3/2015	69	P	Washington	Sherwood	PORTLAND UA				14						1803
161085	2 1	1 3704 CITY	0 0	0 0	0 0	N FAI	.SE	7/3/2015	6 9	Р	Washington	Sherwood	PORTLAND UA				14						1803
162635	3 1	I 3372 CITY	0 0	0 0	0 0	N FAI	SE	6/18/2015	5 7	A	Washington	Sherwood	PORTLAND UA				14						1803
162635	3 1	1 3372 CITY	0 0	0 0	0 0	N FAI	SE	6/18/2015	5 7	A	Washington	Sherwood	PORTLAND UA				14						1803
166882	3 1	1 3900 CITY	0 0	0 0	0 0	N FAI	SE	6/14/2016	3 1	P	Washington	Sherwood	PORTLAND UA				14						1803
166882	3 1	1 3900 CITY	0 0	0 0	0 0	N FAI	SE	6/14/2016	3 1	Р	Washington	Sherwood	PORTLAND UA				14						1803
166882		3900 CITY	0 0	0 0	0 0	N FAI	SE	6/14/2016	3 1	P	Washington	Sherwood	PORTLAND UA			-	14						1803
167989		8007 NONE	0 0	0 0	0 0	N FAI	SE 1	11/22/2016	3 7	P	washington	Sherwood	PORTLAND UA			-	14						1803
168102	1 1			0 0	0 0	N FAI	SE 1	2/3/2016	3 /	Δ	Washington	Sherwood	PORTLAND UA				14						1803
168193		767 CITY	0	0 0	0 0	N FAI	SE	2/3/2016	4 0	A	Washington	Sherwood	PORTLAND UA			-	14						1803
169890	5 1	7730 NO RPT	0	0 0	0 0	N FAI	SE 1	11/10/2016	5.4	P	Washington	Sherwood	PORTLAND UA				14						1803
169890	5 1	7730 NO RPT	0 0	0 0	0 0	N FAI	SE 1	11/10/2016	5 4	P	Washington	Sherwood	PORTLAND UA				14						1803
173349	1	4558 CITY	0 0	0 0	0 0	N FAI	.SE	7/26/2017	4 4	P	Washington	Sherwood	PORTLAND UA				14						1803

1733/01 1	4558 CITY			EALSE 7/26/2017	4 4 8	Washington	Sherwood PORTLAND LIA			14				1803
1733401 1	4550 CITY			FALSE 7/20/2017	4 40	Washington	Sherwood PORTLAND UA			14				1803
1/55491 1	4558 CITT	0 0 0	0 0 0 0	FALSE //20/2017	4 4P	washington	STIEFWOOD PORTLAND OA			14				1803
1/33655 1	8403 CITY	0 0 0	0 0 0 N	FALSE 12/30/2017	7 SP	wasnington	Sherwood PORTLAND UA			14				1803
1733655 1	8403 CITY	0 0 0	0 0 0 N	FALSE 12/30/2017	7 5P	Washington	Sherwood PORTLAND UA			14				1803
1735179 1	5608 CITY	0 0 0	0 0 0 N	FALSE 9/12/2017	3 7P	Washington	Sherwood PORTLAND UA			14				1803
1735179 1	5608 CITY	0 0 0	0 0 0 N	FALSE 9/12/2017	3 7P	Washington	Sherwood PORTLAND UA			14				1803
1735179 1	5608 CITY	0 0 0	0 0 0 N	FALSE 9/12/2017	3 7P	Washington	Sherwood PORTLAND UA			14				1803
1735179 1	5608 CITY	0 0 0	0 0 0 N	EALSE 9/12/2017	3 7P	Washington	Sherwood PORTLAND LIA			14				1803
1762925 1	6122 CITY	1 0 0		EALSE 10/2/2017	2 50	Washington	Shorwood BORTLAND LIA			14			-	 1902
1762825 1	6132 CITY	1 0 0		TALSE 10/3/2017	2 50	Washington	Sherwood PORTLAND UA			14				1803
1/62825 1	6132 CITY	1 0 0	0 0 0 N	FALSE 10/3/2017	3 5P	wasnington	Sherwood PORTLAND UA			14				1803
1692309 1	3478 CITY	0 0 0		FALSE 5/2//2016	6 11A	Washington	Sherwood PORILAND UA			14		+		1803
1692309 1	3478 CITY	0 0 0	0 0 0 N	FALSE 5/27/2016	6 11A	Washington	Sherwood PORTLAND UA			14				1803
1751172 1	714 NO RPT	0 0 0	0 0 0 N	FALSE 2/7/2017	3 3P	Washington	Sherwood PORTLAND UA			14				1803
1751172 1	714 NO RPT	0 0 0	0 0 0 N	FALSE 2/7/2017	3 3P	Washington	Sherwood PORTLAND UA			14				1803
1751730 1	1044 NONE	0 0 0	0 0 0 N	FALSE 2/23/2017	5 10A	Washington	Sherwood PORTLAND UA			14				1803
1751730 1	1044 NONE	0 0 0	0 0 0 N	FALSE 2/23/2017	5 10A	Washington	Sherwood PORTLAND UA			14				1803
1761083 1	6584 NONE	0 0 0	0 0 0 N	FALSE 10/20/2017	6 2P	Washington	Sherwood PORTLAND UA			14				1803
1761083 1	6584 NONE	0 0 0	0 0 0 N	EALSE 10/20/2017	6 2P	Washington	Sherwood PORTLAND UA			14				1803
1761092 1	6915 NONE			EALSE 11/1/2017	4 5P	Washington	Sherwood RORTLAND LIA			14			-	1803
1761092 1	6015 NONE	0 0		EALSE 11/1/2017	4 50	Washington	Sherwood RORTLAND UA			14				1903
1672212	511C CITY	0 0		FALSE 11/1/201/	4 114	Washington	Sherwood PORTLAND UA			14			-	2202
10/2212 1	5110 CITY			FALSE 8/3/2016	4 11A	wasnington	SHERWOOD PORTLAND UA			14		+	-	 2302
10/2212 1	2110 CITA	0 0 0		FALSE 8/3/2016	4 11A	wasnington	Sherwood PORTLAND UA			14				2302
1820401 1	3938 NONE	0 0 0		FALSE 7/30/2018	2 7A	Washington	Sherwood PORTLAND UA		L	14		+		2302
1820401 1	3938 NONE	0 0 0	0 0 0 N	FALSE 7/30/2018	2 7A	Washington	Sherwood PORTLAND UA			14				2302
1617882 1	6916 CITY	0 0 0	0 0 0 N	FALSE 11/17/2015	3 8A	Washington	Sherwood PORTLAND UA			14				2302
1617882 1	6916 CITY	0 0 0	0 0 0 N	FALSE 11/17/2015	3 8A	Washington	Sherwood PORTLAND UA			14				2302
1617882 1	6916 CITY	0 0 0	0 0 0 N	FALSE 11/17/2015	3 8A	Washington	Sherwood PORTLAND UA			14				2302
1702319 1	8224 CITY	1 0 0	0 0 0 N	FALSE 12/1/2016	5 8P	Washington	Sherwood PORTLAND UA			14				2302
1702319 1	8224 CITY	1 0 0	0 0 0 N	FALSE 12/1/2016	5 8P	Washington	Sherwood PORTLAND UA			14				2302
1730798 1	2928 CITY	0 0	0 0 0 N	EALSE 5/19/2017	6 7A	Washington	Sherwood PORTLAND UA			14				2302
1730798 1	2928 CITY			EALSE 5/19/2017	6 7 4	Washington	Sherwood PORTLAND UA			14				 2302
1730708 1	2020 CITY			FALSE 5/15/2017	6 74	Washington	Sherwood PORTLAND UA			14				2302
1730796 1	2928 CITY			FALSE 5/19/2017	6 7A	Washington	Sherwood PORTLAND UA	-		14				2302
1/30/98 1	2928 CITY	0 0 0	0 0 0 N	FALSE 5/19/2017	6 /A	Washington	Sherwood PORTLAND UA			14			-	2302
1/30/98 1	2928 CITY	0 0 0	0 0 0 N	FALSE 5/19/2017	6 /A	Washington	Sherwood PORILAND UA			14				2302
1552607 1	339 CITY	0 0 0	0 0 0 N	FALSE 1/20/2014	2 12P	Washington	Sherwood PORTLAND UA			16				2302
1552607 1	339 CITY	0 0 0	0 0 0 N	FALSE 1/20/2014	2 12P	Washington	Sherwood PORTLAND UA			16				2302
1659319 1	887 CITY	0 0 0	0 0 0 N	FALSE 2/9/2016	3 3P	Washington	Sherwood PORTLAND UA			14				2302
1659319 1	887 CITY	0 0 0	0 0 0 N	FALSE 2/9/2016	3 3P	Washington	Sherwood PORTLAND UA			14				2302
1659319 1	887 CITY	0 0 0	0 0 0 N	FALSE 2/9/2016	3 3P	Washington	Sherwood PORTLAND UA			14				2302
1659319 1	887 CITY	0 0	0 0 0 N	EALSE 2/9/2016	3 3P	Washington	Sherwood PORTLAND UA			14				2302
1664999 1	2639 CITY	0 0	0 0 0 N	EALSE 4/21/2016	5 5 4	Washington	Sherwood PORTLAND LIA			14				2302
1664999 1	2639 CITY	0 0		EALSE 4/21/2016	5 5 4	Washington	Shorwood PORTLAND UA			14				2302
1004999 1	2039 CITY			FALSE 4/21/2010	3 3A	Washington	Sherwood PORTLAND UA			14				2302
1/04518 1	7424 CITY	0 0 0		FALSE 11/21/2017	5 /A	washington	Sherwood PORTLAND UA			14			-	2302
1/64318 1	7424 CITY	0 0 0	0 0 0 N	FALSE 11/21/2017	3 /A	Washington	Sherwood PORTLAND UA			14				2302
1605644 1	1230 CITY	0 0 0	0 0 0 N	FALSE 3/7/2015	7 5P	Washington	Sherwood PORTLAND UA			16				2302
1605644 1	1230 CITY	0 0 0	0 0 0 N	FALSE 3/7/2015	7 5P	Washington	Sherwood PORTLAND UA			16				2302
1606545 1	1678 NONE	0 0 0	0 0 0 N	FALSE 3/31/2015	3 4P	Washington	Sherwood PORTLAND UA			16				2302
1606545 1	1678 NONE	0 0 0	0 0 0 N	FALSE 3/31/2015	3 4P	Washington	Sherwood PORTLAND UA			16				2302
1612304 1	4305 CITY	0 0 0	0 0 0 N	FALSE 7/30/2015	5 6A	Washington	Sherwood PORTLAND UA			14				2302
1612304 1	4305 CITY	0 0 0	0 0 0 N	FALSE 7/30/2015	5 6A	Washington	Sherwood PORTLAND UA			14				2302
1622406 1	736 NONE	0 0		FALSE 2/9/2015	2 6A	Washington	Sherwood PORTLAND UA			14				2302
1622406 1	736 NONE			EALSE 2/9/2015	2 6A	Washington	Sherwood PORTLAND UA			14				2302
1632774 1	1605 NONE	0 0		FALSE 2/11/2015	4 74	Washington	Sherwood PORTLAND UA			14		+		2302
1622774 1	1605 NONE			EALSE 2/11/2015	4 74	Washington	Sherwood PORTLAND UA			14				2302
1652019 1	7041 CITY			FALSE 2/11/2015	4 74	Washington	Sherwood PORTLAND UA			14		+		2302
1052018 1	7041 CITY			FALSE 11/20/2015	0 5P	wasnington	Sherwood PORTLAND UA	-		14		++	-	2302
1652018 1	7041 CITY	0 0 0		FALSE 11/20/2015	6 5P	washington	Sherwood PORTLAND UA			14				2302
1666451 1	2963 NONE	0 0 0	0 0 0 N	FALSE 5/6/2016	6 11A	Washington	Sherwood PORTLAND UA			14				2302
1666451 1	2963 NONE	0 0 0	0 0 0 N	FALSE 5/6/2016	6 11A	Washington	Sherwood PORTLAND UA			14				2302
1802832 1	7218 CITY	0 0 0	0 0 0 N	FALSE 12/30/2018	1 12P	Washington	Sherwood PORTLAND UA			14				2302
1802832 1	7218 CITY	0 0 0	0 0 0 N	FALSE 12/30/2018	1 12P	Washington	Sherwood PORTLAND UA			14				2302
1802832 1	7218 CITY	0 0 0	0 0 0 N	FALSE 12/30/2018	1 12P	Washington	Sherwood PORTLAND UA			14				2302
1802832 1	7218 CITY	0 0 0	0 0 0 N	FALSE 12/30/2018	1 12P	Washington	Sherwood PORTLAND UA			14				2302
1691851 1	2711 CITY	0 0 0	0 0 0 N	FALSE 4/25/2016	2 10A	Washington	Sherwood PORTLAND UA			14				1803
1691851 1	2711 CITY	0 0		FALSE 4/25/2016	2 10A	Washington	Sherwood PORTLAND UA			14				1803
1754728 1	2711 CITY	0 0		FALSE 5/9/2017	3 1P	Washington	Sherwood PORTLAND UA			1/1				1803
1754728 1	2711 CITY			EALSE 5/9/2017	3 1P	Washington	Sherwood PORTLAND UA			14				1803
1591026 1	2076 CITY			EALSE 6/2/2017	3 7 4	Washington	Shorwood BORTLAND UA			14		+		1005
1501020 1	2076 CITY			FALSE 6/2/2014	2 7 A	wasnington	Sherwood PORTLAND UA			16	_	+		1803
1501026 1	5076 CITY	0 0 0		FALSE 6/2/2014	2 /A	wasnington	Sherwood PORTLAND UA			16				1803
1581026 1	3076 CITY	0 0 0	0 0 0 N	FALSE 6/2/2014	2 7A	Washington	Sherwood PORTLAND UA			16		+		1803
1607638 1	2200 NO RPT	0 0 0	0 0 0 N	FALSE 4/25/2015	7 3P	Washington	Sherwood PORTLAND UA			14				1803

1607638 1	2200 NO BPT (			EALSE 4/25/2015	7 3P	Washington Sherwood PORTLAND UA		14	1803
1607638 1	2200 NO RPT		0 0 0	EALSE 4/25/2015	7 3 0	Washington Sherwood PORTLAND LIA		14	1803
1672006 1	E4E7 CITY		0 0 0	FALSE 9/16/2016	2 90	Washington Sherwood PORTLAND UA		14	 1803
1672550 1	5457 CITY			FALSE 8/10/2010	2 00	Washington Sherwood PORTLAND UA		14	1803
1672996 1	5457 CITY		0 0 0	FALSE 8/16/2016	5 68	Washington Sherwood PORTLAND UA		14	1805
16/2996 1	5457 CITY		0 0 0	FALSE 8/16/2016	3 82	wasnington Sherwood PORTLAND UA		14	 1803
1/036/4 1	8530 NO RPT 1	0 0 0	0 0 0	FALSE 12/12/2016	Z 1P	Washington Sherwood PORILAND UA		14	1803
1/036/4 1	8530 NO RP1 0		0 0 0	FALSE 12/12/2016	2 1P	Washington Sherwood PORILAND UA		14	1803
1728663 1	1714 CITY 0	0 0 0	0 0 N	FALSE 3/26/2017	1 4P	Washington Sherwood PORTLAND UA		14	1803
1728663 1	1714 CITY 0	0 0 0	0 0 N	FALSE 3/26/2017	1 4P	Washington Sherwood PORTLAND UA		14	1803
1728663 1	1714 CITY 0	0 0 0	0 0 N	FALSE 3/26/2017	1 4P	Washington Sherwood PORTLAND UA		14	1803
1775496 1	16 CITY 0	0 0 0	0 0 N	FALSE 1/2/2018	3 4P	Washington Sherwood PORTLAND UA		14	1803
1775496 1	16 CITY (	0 0 0	0 0 N	FALSE 1/2/2018	3 4P	Washington Sherwood PORTLAND UA		14	1803
1823757 1	7005 NONE (	0 0 0	0 0 N	FALSE 12/20/2018	5 3P	Washington Sherwood PORTLAND UA		14	1803
1823757 1	7005 NONE (	0 0 0	0 0 N	FALSE 12/20/2018	5 3P	Washington Sherwood PORTLAND UA		14	1803
1631883 1	979 CITY (	0 1 0	0 0 0	FALSE 2/22/2015	1 9A	Washington Sherwood PORTLAND UA		16	1803
1631883 1	979 CITY		0 0 0	FALSE 2/22/2015	1 94	Washington Sherwood PORTLAND LIA		16	1803
1638135 1	4231 CITY		0 0 0	EALSE 7/27/2015	2 74	Washington Sherwood PORTLAND LIA		16	1803
1629125 1	4231 CITY (	0 0 0	0 0 0	EALSE 7/27/2015	2 7A	Washington Sherwood PORTLAND UA		16	1803
1554620 1	1E14 CITY		0 0 0	EALSE 2/16/2010	1 10	Washington Sherwood PORTLAND UA		16	1803
1564629 1	1514 CITY	0 0 0		FALSE 3/10/2014	1 10	Washington Sherwood PORTLAND DA		10	1803
1504029 1	1514 CITY		0 01	FALSE 5/16/2014	1 1P	Washington Sherwood PORTLAND UA		10	1805
1003251 1	2295 CITY			FALSE 4///2016	5 8A	washington Sherwood PORTLAND UA		14	1803
1003251 1	2295 CITY (		0 0 0	FALSE 4/7/2016	5 8A	wasnington Snerwood PORILAND UA		14	1803
1683918 1	8136 CITY (	0 0	0 0 N	FALSE 11/28/2016	2 8A	Washington Sherwood PORTLAND UA		14	1803
1683918 1	8136 CITY (	0 0	0 0 N	FALSE 11/28/2016	2 8A	Washington Sherwood PORTLAND UA		14	1803
1683918 1	8136 CITY (	0 0 0	0 0 N	FALSE 11/28/2016	2 8A	Washington Sherwood PORTLAND UA		14	1803
1718173 1	1296 CITY 0	0 0 0	0 0 N	FALSE 3/7/2017	3 2P	Washington Sherwood PORTLAND UA		14	1803
1718173 1	1296 CITY 0	0 0 0	0 0 N	FALSE 3/7/2017	3 2 P	Washington Sherwood PORTLAND UA		14	1803
1718173 1	1296 CITY (	0 0 0	0 0 N	FALSE 3/7/2017	3 2P	Washington Sherwood PORTLAND UA		14	1803
1718173 1	1296 CITY (	0 0 0	0 0 N	FALSE 3/7/2017	3 2P	Washington Sherwood PORTLAND UA		14	1803
1718173 1	1296 CITY (	0 0 0	0 0 N	FALSE 3/7/2017	3 2P	Washington Sherwood PORTLAND UA		14	1803
1731308 1	3293 CITY (	0 0 0	0 0 N	FALSE 6/4/2017	1 6P	Washington Sherwood PORTLAND UA		14	1803
1731308 1	3293 CITY 0	0 0 0	0 0 N	FALSE 6/4/2017	1 6P	Washington Sherwood PORTLAND UA		14	1803
1731308 1	3293 CITY (	0 0 0	0 0 0	FALSE 6/4/2017	1 6P	Washington Sherwood PORTLAND UA		14	1803
1751521 1	992 NONE		0 0 0	FALSE 2/21/2017	3 LINK	Washington Sherwood PORTLAND LIA		14	1803
1751521 1	992 NONE		0 0 0	EALSE 2/21/2017	3 UNK	Washington Sherwood PORTLAND UA		14	1803
1752202 1	2026 CITY		0 0 0	EALSE 4/10/2017	2 10	Washington Sherwood PORTLAND UA		14	1903
1753303 1	2036 CITY		0 0 0	EALSE 4/10/2017	2 10	Washington Sherwood PORTLAND UA		14	1803
1753505 1	2050 CITY	0 0 0		FALSE 4/10/2017	7.50	Washington Sherwood PORTLAND DA		14	1803
1594407 1	7059 CITY	0 0 0	0 0 0	FALSE 11/22/2014	7 5P	Washington Sherwood PORTLAND DA		16	1803
1594407 1	7059 CITY		0 0 0	FALSE 11/22/2014	7 5P	Washington Sherwood PORTLAND UA		16	1803
1594407 1	7059 CITY		0 0 N	FALSE 11/22/2014	/ 5P	Washington Sherwood PORTLAND UA		16	1803
1594407 1	7059 CITY	0 0 0	0 0 0	FALSE 11/22/2014	/ 5P	Washington Sherwood PORTLAND UA		16	 1803
1594407 1	7059 CITY 0	0 0 0	0 0 N	FALSE 11/22/2014	7 5P	Washington Sherwood PORTLAND UA		16	1803
1594407 1	7059 CITY 0	0 0 0	0 0 0	FALSE 11/22/2014	7 5P	Washington Sherwood PORTLAND UA		16	1803
1610852 1	3704 CITY 0	0 0 0	0 0 N	FALSE 7/3/2015	6 9P	Washington Sherwood PORTLAND UA		14	1803
1610852 1	3704 CITY (	0 0 0	0 0 N	FALSE 7/3/2015	6 9P	Washington Sherwood PORTLAND UA		14	1803
1610852 1	3704 CITY (	0 0 0	0 0 N	FALSE 7/3/2015	6 9P	Washington Sherwood PORTLAND UA		14	1803
1610852 1	3704 CITY 0	0 0 0	0 0 N	FALSE 7/3/2015	6 9P	Washington Sherwood PORTLAND UA		14	1803
1626358 1	3372 CITY 0	0 0 0	0 0 N	FALSE 6/18/2015	5 7A	Washington Sherwood PORTLAND UA		14	1803
1626358 1	3372 CITY (	0 0 0	0 0 N	FALSE 6/18/2015	5 7A	Washington Sherwood PORTLAND UA		14	1803
1668823 1	3900 CITY 0	0 0 0	0 0 N	FALSE 6/14/2016	3 1P	Washington Sherwood PORTLAND UA		14	1803
1668823 1	3900 CITY (	0 0 0	0 0 N	FALSE 6/14/2016	3 1P	Washington Sherwood PORTLAND UA		14	1803
1668823 1	3900 CITY (	0 0 0	0 0 N	FALSE 6/14/2016	3 1P	Washington Sherwood PORTLAND UA		14	1803
1679890 1	8007 NONE	0 0 0	0 0 N	FALSE 11/22/2016	3 7P	Washington Sherwood PORTLAND UA		14	1803
1679890 1	8007 NONE (	0 0 0	0 0 N	FALSE 11/22/2016	3 7P	Washington Sherwood PORTLAND UA		14	1803
1681939 1	767 CITY (	0 0 0	0 0 N	FALSE 2/3/2016	4 8A	Washington Sherwood PORTLAND UA		14	1803
1681939 1	767 CITY	0 0 0	0 0 N	FALSE 2/3/2016	4 8A	Washington Sherwood PORTLAND UA		14	1803
1698906 1	7730 NO BPT (		0 0 0	EALSE 11/10/2016	5.4P	Washington Sherwood PORTLAND LIA		14	1803
1698906 1	7730 NO BPT (		0 0 0	FALSE 11/10/2016	5.4P	Washington Sherwood PORTLAND LIA		14	1803
1733491 1	4558 CITY		0 0 0	FALSE 7/26/2017	4 4 P	Washington Sherwood PORTLAND LIA		14	1805
1733491 1	4558 CITY			EALSE 7/26/2017	4 AP	Washington Sherwood PORTLAND LIA		14	1803
1733491	4558 CITY			EALSE 7/26/2017	4 47	Washington Sherwood PORTIAND UA		14	1003
1733655 1	8403 CITY			EALSE 12/20/2017	7 50	Washington Sherwood PORTLAND UA		14	1803
1733655 1	8402 CITY			EALSE 12/20/2017	7 50	Washington Shorwood PORTLAND UA		14	1803
1735170				EALSE 0/10/2017	/ 5P	Washington Sherwood PORTLAND UA		14	1803
17351/9 1				FALSE 9/12/2017	3 / P	Washington Sherwood PORTLAND UA		14	1803
17351/9 1				FALSE 9/12/2017	3 / P	Washington Sherwood POKILAND UA		14	1803
17351/9 1				FALSE 9/12/2017	3 /P	Washington Sherwood PORTLAND UA		14	1803
1/351/9 1	5608 CTTY (		0 0 0	FALSE 9/12/2017	3 /P	Wasnington Sherwood PORILAND UA	_	14	1803
1/62825 1	6132 CITY	1 0 0	0 0 N	FALSE 10/3/2017	3 5P	Washington Sherwood PORTLAND UA		14	1803
1762825 1	6132 CITY	1 0 0	0 0 N	FALSE 10/3/2017	3 5P	Washington Sherwood PORTLAND UA		14	1803
1692309 1	3478 CITY (	0 0 0	0 0 N	FALSE 5/27/2016	6 11A	Washington Sherwood PORTLAND UA		14	1803

1692309	1 3478 CITY	0	0 0	0	0	N FAL	LSE	5/27/2016 6	5 11A	Washington Sherwo	od PORTLANE	) UA		14			1803
1751172	1 714 NO RF	0	0 0	0	0	N FAL	LSE	2/7/2017 3	3 P	Washington Sherwo	od PORTLAND	) UA		14			1803
1751172	1 714 NO R	0	0 0	0	0	N FAL	LSE	2/7/2017 3	3 P	Washington Sherwo	od PORTLAND	O UA		14			1803
1751730	1 1044 NONE	0	0 0	0	0	N FAL	LSE	2/23/2017 5	5 10A	Washington Sherwo	od PORTLANE	AU		14			1803
1751730	1 1044 NONE	0	0 0	0	0	N FAL	LSE	2/23/2017 5	5 10A	Washington Sherwo	od PORTLAND	AUG		14			1803
1761083	1 6584 NONE	0	0 0	0	0	N FAL	LSE	10/20/2017 6	5 2P	Washington Sherwo	od PORTLAND	) UA		14			1803
1761083	1 6584 NONE	0	0 0	0	0	N FAL	LSE	10/20/2017 6	5 2P	Washington Sherwo	od PORTLANE	) UA		14			1803
1761092	1 6915 NONE	0	0 0	0	0	N FAL	LSE	11/1/2017 4	1 5P	Washington Sherwo	od PORTLAND	AU		14			1803
1761092	1 6915 NONE	0	0 0	0	0	N FAL	LSE	11/1/2017 4	1 5P	Washington Sherwo	od PORTLAND	O UA		14			1803

		RD CHAR	CMPSS DIR		ISECT TYP	MEDN TYP			TRAF CNTL DE			WTHR COND	RD SURF	S LGT COND		COLLIS TYP	CRASH SVRT	CRASH E CRASH E
	ISECT_ST_	RD_CHA SHORT_DES CN	MPSSCMPSS_DIRSHORT_DE	IMPCT_L	SHORT_DES	_SHORT_DE_TURNG_I		ISECT_RE	VICE_SHORT_D OFF_R	RNDAB	T DRVWY_	_SHORT_DES	HORT_DES	SHORT_DES	CRASH_TYP_	_SHORT_D	Y_SHORT_DE	VNT_1_C VNT_2_C
ST_NM	NO ISECT_ST_NM	R_CD C DI	R_CD _FROM_CD SC	OC_CD	c –	SC EG_QTY	LN_QTY	L_FLG	ESC WY_FL	G _FLG	REL_FLG	c –	с	с	SHORT_DESC	sc	sc	D D
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	5	3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	5	3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	5	3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	ANGL-OTH	TURN	PDO	53
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	5	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO	53
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	e	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	S-1STOP	REAR	PDO	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	S-1STOP	REAR	PDO	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DAY	S-1STOP	REAR	PDO	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	S-1STOP	REAR	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	S-1STOP	REAR	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-1STOP	REAR	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	e	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DUSK	O-STRGHT	HEAD	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DUSK	O-STRGHT	HEAD	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DUSK	O-STRGHT	HEAD	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	e	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DLIT	S-STRGHT	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DLIT	S-STRGHT	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3 E	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	5 S	6	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	5 S	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	5 S	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	5 S	e	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	S-1STOP	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	DRY	DAY	S-1STOP	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	WET	DAY	S-1STOP	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	WET	DAY	S-1STOP	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	) CLR	WET	DAY	S-1STOP	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	RAIN	WET	DAY	S-1STOP	REAR	INJ	93
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	e	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	93
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	93
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	93
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	INJ	93
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DAY	S-STRGHT	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-STRGHT	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	S-STRGHT	REAR	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	e	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLD	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	7 W	6	5 3-LEG		0		0 TRF SIGNAL	0	0 0	CLD	DRY	DAY	S-1STOP	REAR	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLD	DRY	DUSK	O-1 L-TURN	TURN	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLD	DRY	DUSK	O-1 L-TURN	TURN	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 0	CLD	DRY	DUSK	O-1 L-TURN	TURN	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLD	DRY	DUSK	O-1 L-TURN	TURN	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLD	DRY	DUSK	O-1 L-TURN	TURN	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLD	DRY	DUSK	O-1 L-TURN	TURN	INJ	13
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DLIT	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DLIT	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DLIT	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DLIT	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	) CLR	DRY	DAY	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	O-1 L-TURN	TURN	INJ	13 87
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DAY	O-1 L-TURN	TURN	INJ	13 87
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	O-1 L-TURN	TURN	INJ	13 87
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DLIT	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	RAIN	WET	DLIT	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 0	CLD	WET	DAY	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLD	WET	DAY	O-1 L-TURN	TURN	INJ	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 (	CLR	DRY	DAY	0-1 L-TURN	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	3-LEG		0		0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	O-1 L-TURN	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9 CN	3	BI3-LEG		0	1	0 TRF SIGNAL	0	0 0	CLR	DRY	DAY	O-1 L-TURN	TURN	INJ	55

SW OREGON ST	2302 SW/ TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-I F.G		0		A1	0 0	O CLR	DRA	DAY	O-1 L-TURN	TURN	INI	55	-
SW OREGON ST	2302 SW TOREATIN SHERWOOD			CN	33.00		0			0 0	0 CLN	DRY	DAY	O 1 L TUDN	TUDN	100	55	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	TINIER	9	CN	3 3-LEG		0	UTRESIG	AL	0 0	UCLK	DRY	DAT	U-1L-TURN	TURN	INJ	55	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLD	DRY	DLIT	O-1 L-TURN	TURN	INJ	87	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLD	DRY	DLIT	O-1 L-TURN	TURN	INJ	87	
SW OBEGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-I FG		0	0 TRE SIGN	AL	0 0	0 CLB	DRY	DUSK	0-11-TURN	TURN	INI		
SW ORECON ST	2202 EW TUALATIN SHERWOOD	1 INTER	0	CN	3 3 150		0			0 0	O CLR	DBY	DUEK	O 1 L TURN	TURN	INU		
SW OREGON ST	2302 SW TOALATIN-SHERWOOD	TINIER	9	CN	5 5-LEG		0	UTRF SIG	AL	0 0	UCLK	DKT	DUSK	U-IL-TURN	TURIN			
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-LEG		0	0 TRF SIGN	AL	0 0	OCLR	DRY	DUSK	0-1 L-TURN	TURN	INJ		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DUSK	O-1 L-TURN	TURN	INJ		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	O-1 L-TURN	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	3 3-LEG		0	0 TRE SIGN	AI	0 0	0 CLR	DRY	DAY	O-11-TURN	TURN	PDO		
SW/ OREGON ST	2202 SW TUALATIN SHERWOOD	1 INTER	0	CN	4 2 156		0	O TRE SIGN	A1	0 0	0 0 0	WET	DAY	ANGL OTH	TURN	PDO		
SW OREGON ST	2302 SW TOALATIN SHERWOOD	1 INTER		CN	43.00		0			0 0	0 CLD	WET	DAY	ANGL OTH	TUDN	000		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	TINTER	9	CN	4 3-LEG		U	U TRF SIG	AL	0 0	UCLD	WEI	DAT	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRF SIGN	AL	0 0	ORAIN	WET	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRF SIGN	AL	0 0	0 RAIN	WET	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	S-OTHER	TURN	PDO		-
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRE SIGN	Δι	0 0	0 CLB	DRY	DAY	S-OTHER	TURN	PDO		
SW ORECON ST	2302 SW TUALATIN SHERWOOD	1 INTER	0	CN	4 3 150		0		A1	0 0	0 CLR	DRV	DAY	ANCLOTU	TUDN	100		
SW OREGON ST	2502 SW TOALATIN-SHERWOOD	TINTER	9	CN	4 5-LEG		0	U TRF SIG	AL	0 0	UCLK	UKT	DAT	ANGL-OTH	TURN	PD0		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DUSK	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DUSK	ANGL-OTH	TURN	PDO		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	5	NONE		2 0 UNKNO	VN	1 0	0 CLR	DRY	DAY	PRKD MV	REAR	INJ	69	-
SW/ TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRCHT	3	F	5	NONE		2 0 110100	/N	1 0	OCLR	DRV	DAY	PRKD MV	REAR	INI	60	_
CW THALATIN CUSPWOOD	1902 SW ORECON ST	alemour	3	c.	5	NONE					OCLR	DRV	DAY	C CTDCUT	DEAD	000	05	_
SW TUALATIN-SHERWOOD	1803 SW UKEGUN SI	SIRGHT	3	LE.		NUNE				0	ULLK	UKY	UAT	5-SIKGHI	REAK	PUU		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	5	NONE		2 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-STRGHT	REAR	PDO		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	7	NONE		2 0 UNKNO\	VN	0 0	0 RAIN	WET	DAWN	S-1STOP	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	7	NONE		2 0 UNKNOV	VN	0 0	0 RAIN	WET	DAWN	S-1STOP	REAR	INJ		
SW/TUALATINI SHERWOOD	1902 SW OREGON ST	2 STRGUT	2	- c	7	NONE		2 0 UNKNO	ZN	0 0	O RAIN	WET	DAM/N	S-1STOP	DEAD	INI		
SW TOALATIN SHERWOOD	1803 SW OREGON ST	3 570011				NONE		2 0 014810		0 0	0 0 0	DOV	DATE	S-13TOF	DCAD.	000		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	5	E	/	NONE			VN	0 0	UCLD	DRY	DLIT	S-STRGHT	REAR	PDO		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	7	NONE		2 0 UNKNO	VN	0 0	0 CLD	DRY	DLIT	S-STRGHT	REAR	PDO		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	7	NONE		2 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ	13	
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	7	NONE		2 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ	13	
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	F	7	NONE			/N	0 0	0 CLB	DRY	DAY	S-1STOP	REAR	INI	13	
SW TUALATIN SHERWOOD	1803 SW ORECON ST	2 570047	2	c	7	NONE		2 0 UNKNO	///	0 0	O CLR	DRV	DAY	S 1STOR	DEAD	INU	12	
SW TOALATIN-SHERWOOD	1805 SW OREGON ST	5 51 KGH1	5	C		NONE		2 0 01000		0 0	UCLK	DRT	DAT	3-1310P	REAR		15	
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	/	NONE		2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VN	0 0	OCER	DRY	DAY	S-1STOP	REAR	INJ	13	
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ	13	
SW/ TUALATINI SHERWOOD	1902 SW ORECON ST	2 570.047	2	c		NONE		3 0 110/00	/N	0 0	0 CLR	DRV	DAY	S 1STOR	DEAD	INI	12	
SW TOALATIN-SITERWOOD	1803 SW OREGON ST	3 3110111	3	L.	8	NONE		2 0 0 0 0 0 0 0 0		0 0	0 CLN	DRI	DAT	3-13TOP	NLAN 0540		13	_
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE			VN	0 0	OCLR	DRY	DAY	S-1STOP	REAR	INJ	13	
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ	13	
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAWN	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAWN	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	F	8	NONE		2 0 NONE		0 0	0 RAIN	WET	DAY	S-1STOP	REAR	PDO		
SW TORERTIN SHERWOOD	1865 SW OREGON ST	2 5 5 1 1 5 5 1 1 5		C C		NONE		2 0 110112		0 0	O DAIN	WET	DAY	5-15TOP	DCAD	000		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	3	E	8	NONE		2 UNONE		0 0	URAIN	WEI	DAT	5-15TOP	REAR	PDO		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	NONE		2 0 UNKNO\	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	w	8	NONE		2 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	NONE		2 0 UNKNO	VN	0 0	0 CLD	WET	DAY	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OBEGON ST	3 STRGHT	7	w	8	NONE		2 0 UNKNON	/N	0 0	0 CLD	WET	DAY	S-STRGHT	REAR	INI		_
SW THALATIN-SHERWOOD	1803 SW OREGONIST	2 CTDCUT	7	W		NONE		3 01111/2010	/N		OCLE	DRY	DAY	S.STROUT	REAR	INI	1 1	_
	1003 5W OREGON 51	alaman		144		NONE				0 0	O CLR	DRI	DAY	S-SINGHI	DEAD			
SW TUALATIN-SHERWOOD	1803 SW UKEGUN ST	SIRGHT	/	W	8	NUNE				0 0	UCLK	DRY	DAT	5-STKGHT	REAK	UVII		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	NONE		4 0 UNKNO	VN	0 0	0 RAIN	WET	DAWN	S-1STOP	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	NONE		4 0 UNKNO	VN	0 0	0 RAIN	WET	DAWN	S-1STOP	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	NONE		3 0 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-STRGHT	SS-O	PDO		
SW TUALATIN-SHERWOOD	1803 SW OBEGON ST	3 STRGHT	7	w	8	NONE		3 0 UNKNON	/N	0 0	0 CLB	DRY	DAY	S-STRGHT	55-0	PDO		_
SW THALATIN-SHERWOOD	1803 SW OREGONIST	2 CTDCUT	7	W		NONE		2 1	/N		OCLD	DRY	DUT	S-1STOP	REAR	IPDO	1 1	_
CHUTHALATIN CUEDWOOD	1003 SW OREGON ST	actocut		VV		NONE					0 CLD	DNI	DUT	5-1310F	DEAD	100		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT		w	8	NONE		2 1 UNKNO	VIN	0 0	UCLD	DRY	DUIT	5-1510P	REAR	PDO		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	RSDMD		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	RSDMD		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-STRGHT	REAR	INJ		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	w	8	RSDMD		2 1 UNKNOV	VN	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	INJ		
SW/TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRCHT	7	w	8	RSDMD		2 1 111	/N	0 0	0 CLB	DBY	DAY	S-1STOP	REAR	INI		_
SW TUALATIN SUEDWOOD	1803 SW OREGON ST	a strocut	7	NV NV	0	DCDMD					0 CLN	DRV	DAY	C 1CTOP	DEAD	INU		_
SW IUALATIN-SHERWOOD	1803 SW UKEGON ST	3 STRGHT		w	8	KSUMD		2 1 UNKNO		0	ULLK	DRY	DAY	2-1210b	KEAK	UNI		
SW TUALATIN-SHERWOOD	1803 SW OREGON ST	3 STRGHT	7	W	8	RSDMD		2 1 UNKNO	VN	0 0	0 CLR	DRY	DAY	S-1STOP	RÉAR	INJ		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3	E	5 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3	E	5 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3	E	5 3-LEG		0	O TRESIGN	AI	0 0	0 CLB	DRY	DAY	ANGL-OTH	TURN	PDO	52	
SW ORECON ST				r.	5 3-110			0 105 200	AL	0 0	0 CLR	DBY	DAY	ANCL OTU	TUDN	000	55	_
SW UNEGUN ST	2502 SW TUALATIN-SHERWOOD	TINTER	3	C	5 3-LEG		0	UTRESIG	AL	0 0	UCLK	UKY	DAT	ANGL-OTH	TURN	100	53	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3	E	6 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	S-1STOP	RÉAR	004	13	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3	E	6 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	PDO	13	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	3	E	6 3-LEG		0	0 TRF SIGN	AL	0 0	0 CLR	DRY	DAY	S-1STOP	REAR	PDO	13	
						1	1 1							1	1	la		

SW ORECON ST	2202	SW TUALATIN SHERWOOD		2	c	6	2 1 5 6		0		0	TRE SIGNAL	0	0		DBV	DAY	S 1STOD DE	AD	INI	12	
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	TINIER	3	 C.		3-LEG		0	·	0	TRF SIGNAL	0	0	ULLK	DRT	DAT	5-1310P RE	:AR	INJ	15	L
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	6	5 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	EAR	INJ	13	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	6	5 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DUSK	O-STRGHT HE	EAD	INJ	13	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	F	F	SI 3-LEG		0		0	TRE SIGNAL	0	0	0 CLB	DRY	DUSK	O-STRGHT HE	FΔD	INI	13	
SW ORECON ST	2302	SW TUALATIN SUERWOOD	1 INTER	2	r.		2 150	-	0		0	TRE SIGNAL	0	0	0 CLR	DRV	DUCK	O STROUT		INU	13	(
SW OREGON ST	2302	SW TOALATIN-SHERWOOD	TINIER	3	 C		5-120		0	'	0	TRF SIGNAL	0	0	UCLK	UKT	DUSK		CAU	INJ	12	<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	EAR	PDO		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	6	5 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	AR	PDO		1
SW/ OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	F	6	S 3-LEG		0		0	TRE SIGNAL	0	0	0 RAIN	WET	DAY	S-1STOP RE	AR	INI	13	
SW OREGON ST	2302		1 11/100		6		0.150	_	0		0	The Signal		0	O RAIN	WET	DAI	5 15TOT NC		1140	13	<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	e e	3-LEG		0	,	0	TRF SIGNAL	0	0	URAIN	WEI	DAY	S-1STOP RE	:AR	INJ	13	<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 RAIN	WET	DAY	S-1STOP RE	EAR	INJ	13	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	E	5 3-LEG		0		0	TRE SIGNAL	0	0	0 CLR	DRY	DLIT	S-STRGHT RE	AR	INJ		
SW/ OREGONIST	2202	SW/ TUALATIN, SHERWOOD	1 INTER	2	c	6	2.150		0		0	TRE SIGNAL	0	0	0 CLP	DRV	DUT	S STRGUT DE	AD	INI		
544 OKEGON 51	2302	SW TOALATIN-SITERWOOD	1 INTER	2	-		5-220		0		0			0	O CLIN	DINI	DLIT	S-STROTT INC	-740	1145		( <u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	E E	3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	AR	PDO		<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	3	E	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	AR	PDO		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	5	S	6	5 3-1 EG		0		0	TRE SIGNAL	0	0	0 CLB	DBY	DAY	S-1STOP BE	AR	PDO		
SW ORECON ST	2200	SW TUALATIN SHERWOOD	1 INTER	5	c		2 1 5 6		Ő		0	TRESIGNAL	0	0	0 CLR	DRV	DAY	S 1STOD DE	AD	PDO		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	TINTER	5	3		DIS-LEG	-	0	'	0	TRF SIGNAL	0	0	UCLK	DRY	DAT	5-1510P RE	EAR	PDO		f
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	5	S	6	5 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	EAR	PDO		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	5	S	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	AR	PDO		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	F	5 3-LEG		0		0	TRE SIGNAL	0	0	0 CLB	DRY	DAY	S-1STOP RE	ΔR	PDO		
SW ORECON ST	2302	SW TUALATIN SUERWOOD	1 INTER	7	14/		2 150	-	0		0	THE SIGNAL	0	0	0 CLN	DBY	DAY	S 1STOP DE		PDO		(
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	TINIER	/	vv		5-160		0	·	0	TRF SIGNAL	0	0	UCLK	UKT	DAT	3-1310P NC	EAN	100		<del></del>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	3-LEG		0	1	0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	AR	INJ		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-1STOP RE	AR	INJ		
SW OBEGON ST	2303	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	53-LEG		0		0	TRE SIGNAL	0	0	0 CLR	WET	DAY	S-1STOP RE	ΔR	INI	1	
SH GREGON ST	2302			/	144	+	2 2 150	-				TOF CICNAL			0 0 0	ANCT.	DAY	C 1CTOD		1411		1
SW UREGUN ST	2302	SW TUALATIN-SHERWOOD	TINIER	7	W	6	3-LEG		0	1	0	TRF SIGNAL	0	0	UCLK	WEI	DAY	S-1STOP RE	AK	UNJ		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	5 3-LEG		0		00	TRF SIGNAL	0	0	0 CLR	WET	DAY	S-1STOP RE	AR	INJ		<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	E	5 3-LEG		0		0	TRF SIGNAL	0	0	0 RAIN	WET	DAY	S-1STOP RF	AR	INJ	93	
SW/OREGON ST	2203	SW/TUALATIN-SHERWOOD	1 INTER	. 7	14/	6	2.156	-	0		-	TRE SIGNAL	-	-	O PAIN	WET	DAY	S-1STOP PE	AP	INU	02	(
SW OREGON ST	2302	SW TOALATIN-SHERWOOD	TINTER	/	vv		5-LEG		0	<u></u>	0	TRF SIGNAL	0	0	URAIN	VVET	DAT	3-1310P RE	:AR		95	<b></b>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	/	w	6	3-LEG		0	)	0	TRF SIGNAL	0	0	URAIN	WEI	DAY	S-1STOP RE	:AR	INJ	93	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	W	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 RAIN	WET	DAY	S-1STOP RE	AR	INJ	93	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	F	5 3-1 EG		0		0	TRE SIGNAL	0	0	0 RAIN	WET	DAY	S-1STOP BE	AR	INI	93	
SW ORECON ST	2200	SW TUALATIN SHERWOOD		7	14		2 1 5 6	-	0		0	TRE SIGNAL	0	0	0 (1 8	DRV	DAY	S STRCUT	AD	INU		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	TINTER	/	 W		5-LEG		0	'	0	TRF SIGNAL	0	0	UCLK	DRY	DAT	S-STRUTT RE	AR	LINI		<b>└──</b>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	5 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-STRGHT RE	EAR	INJ		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	S-STRGHT RE	AR	INJ		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	F	S 3-LEG		0		0	TRE SIGNAL	0	0	0 RAIN	WFT	ΠΔΥ	S-1STOP RE	ΔR	PDO		
SW OPECON ST	2200	CW THALATIN CUERWOOD	1 UNITED	7	14/		2150		-		-	TRECICNAL	-	-	O DAINI	ALCT.	DAV	C 1CTOD DC	- 4.0	000		(
SW OREGON ST	2302	SW TOALATIN-SHERWOOD	TINIER	/	 vv		5-120		0	'	0	TRF SIGNAL	0	0	UNAIN	VVEI	DAT	3-1310P NC	AN	100		<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	w	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLD	DRY	DAY	S-1STOP RE	EAR	PDO		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	7	W	6	5 3-LEG		0		0	TRF SIGNAL	0	0	0 CLD	DRY	DAY	S-1STOP RE	AR	PDO		1
SW OBEGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	-	3 3-I EG		0		0	TRE SIGNAL	0	0	0 CLD	DRY	DUSK	O-11-TURN TU	IRN	INI	13	
SW OREGON ST	2302	OW TUALATIN CUEDWOOD	1 INTER		CN	-	0.0150	-	0		0	THE SIGNAL	0	0	0 000	DAY	DUCK				10	<b></b>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	TINTER	9	 CN		3 3-LEG		0	'	0	TRF SIGNAL	U 0	0	UCLD	DRY	DUSK	0-11-TURN TU	JRN	INJ	13	<b>↓</b>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLD	DRY	DUSK	O-1 L-TURN TU	JRN	INJ	13	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN		3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLD	DRY	DUSK	0-1 L-TURN TU	JRN	INJ	13	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN		3 3-1 FG		0		0	TRESIGNAL	0	0	0 CLD	DRV	DUSK	O-11-TURN TU	IRN	INI	13	
SW OREGON ST	2302	SW TOADATIN SHERWOOD		9	CIV		220	-	0		0	TRESIGNAL		0	0 000	DINI	DUGK				13	<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	 CN	3	3 3-LEG		0	)	0	TRF SIGNAL	0	0	OCLD	DRY	DUSK	0-1 L-TURN TU	JRN	INJ	13	L
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DLIT	O-1 L-TURN TU	JRN	INJ		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLR	DRY	DLIT	O-1 L-TURN TU	JRN	INJ		
SW/ ORECON ST	3203	SW TUALATIN SHERWOOD	1 INITED	0	CN		2 1 5 6		0		0	TRESIGNAL	0	0	0 (1 P	DBV	DUT	O 1 L TURN TU	IDN	INU		(
SW OREGON ST	2302	SW TOALATIN-SHERWOOD	TINTER	9	CN	-	5-120	-	0	'	0	THE SIGNAL	0	0	UCLN	DKT	DLIT	U-1 L-TOKIN TO	JKIN	INJ		<del>(</del>
SW UREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	 UN	1 3	5 3-LEG		0	'	0	TRF SIGNAL	0	0	UCLR	DRY	DUIT	U-1 L-TURN TU	JKIN	UNJ		<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	0-1 L-TURN TU	JRN	INJ		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	0-1 L-TURN TU	JRN	INJ		
SW OREGON ST	2203	SW TUALATIN-SHERWOOD	1 INTER	0	CN		23-156		0		0	TRE SIGNAL	0	0	0 (18	DRV	DAY	O-1 L-TURN TU	IRN	INI	10	07
ON ORECON ST	2302	CWLTHALATIN CUSPICEOD	1 10/100	9	CN .		2250		-		-	TOF CICHAL		-		DAI	DAY	O 11 TURN	100		12	1 07
SW UREGUN ST	2302	SW IUALATIN-SHERWOOD	1 INTER	9	 UN .	1 3	5 J-LEG		0	1	0	TRF SIGNAL	0	0	0 CLR	DRY	UAY	U-1 L-TURN TU	JKN	UNU	13	87
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	O-1 L-TURN TU	JRN	INJ	13	87
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN		3 3-LEG		0		0	TRF SIGNAL	0	0	0 RAIN	WET	DUIT	0-1 L-TURN TU	JRN	INJ		
SW OREGON ST	2200	SW/ TUALATINI SHERWOOD	1 INTER	0	CN		22156		0		0	TRESIGNAL	0	0	O PAIN	W/ET	DUT		IDNI	INU		-
	2302	SW TOALATIN-SHERWOOD	1 INTER	9	CN CN	-	3-160		0		0	THE SIGNAL	0	0	URAIN	WEI	DUI	O 1 L-TURIN TU		1110		<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0	)	0	TRF SIGNAL	0	0	0 CLD	WEI	DAY	0-1 L-TURN TU	JRN	INJ		<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLD	WET	DAY	0-1 L-TURN TU	JRN	INJ		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN		3-1 EG		0		0	TRE SIGNAL	0	0	0 CLB	DBY	DAY	O-11-TURN TU	IRN	PDO		
SW OREGON ST	2007	SW TUALATIN-SHERWOOD			CN		23-150	-	-		<u> </u>	TRE SIGNAL	<u> </u>	<u> </u>	0.018	DPV	DAY	O-11-TURNI TU	IRN	PDO		
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	TINIER	9	CN	-	3-LEG		0	'	0	TRF SIGNAL	0	0	ULLK	DRY	DAT	U-IL-TURN TU	JRN	PDO		(
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0	,	0	IRF SIGNAL	0	0	0 CLR	DRY	DAY	U-1 L-TURN TU	JKN	INJ	55	<u> </u>
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	0-1 L-TURN TU	JRN	INJ	55	1
SW OBEGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN		3-1 F.G		0		0	TRE SIGNAL	0	0	0 CLB	DBY	DAY	O-11-TURN TU	JRN	INI	55	
SW ORECON ST	2302		1 INITED		CN		2 150	1	-			TDE CICNAL			0 010	DBV	DUT		IDN	INU	07	1
SW UREGUN ST	2302	SW TOALATIN-SHERWOOD	TINIEK	9	CN	-	D-LEG		0		0	TRE SIGNAL	0	0	0,010	DKY	ULII	U-IL-TUKN TU	NIN	UNJ	8/	-
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	1 3	3 3-LEG		0	1	0	TRF SIGNAL	0	0	0 CLD	DRY	DLIT	O-1 L-TURN TU	JRN	INJ	87	1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DUSK	O-1 L-TURN TU	JRN	INJ		
SW OREGON ST	2307	SW TUALATIN-SHERWOOD	1 INTER	q	CN		3 3-1 F G		0		0	TRE SIGNAL	0	0	0 CLB	DRY	DUSK	0-1 L-TURN TU	JRN	INI		
SW ORECON ST	2200	SW TUALATIN SHERWOOD			CN	1	2 150					TRESICNAL			0 CLR	DBV	DUCK		IDN	INU		1
SW UNEGUN ST	2302	SW TOALATIN-SHERWOOD	TINIER	9	CN	-	5-LEG		0	-	0	TRE SIGNAL	0	0	UCLK	UKY	DUSK	U-IL-TURN TU	NIN			<u> </u>
SW OREGON ST	2302	SW IUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0	2	0	I RF SIGNAL	0	0	0 CLR	DRY	DUSK	U-1 L-TURN TU	JRN	INJ		1
SW OREGON ST	2302	SW TUALATIN-SHERWOOD	1 INTER	9	CN	3	3 3-LEG		0		0	TRF SIGNAL	0	0	0 CLR	DRY	DAY	O-1 L-TURN TU	JRN	PDO		
SW OBEGON ST	2303	SW TUALATIN-SHERWOOD	1 INTER	9	CN		3-1 FG		0		0	TRE SIGNAL	0	0	0 CLB	DBY	DAY	0-11-TURN TU	IRN	PDO		
SW ORECON ST	2200	SW THALATIN SHERWOOD			CN		12150		-			TRE SIGNAL			0 010	M/ET	DAY		IDN	PDO		1
LAWY LODGER UN ST	. /30/	LAW FULL ALLIN SPIER WILLIED	I IIINIES				AT THE REAL PROPERTY AND ADDRESS OF ADDRESS ADDRE					and a second to be the state of the second sec				1 1/1/ 10 1		Transfer of the Line of the Li				

SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLD	WET	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	RAIN	WET	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	RAIN	WET	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLR	DRY	DAY	S-OTHER	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLR	DRY	DAY	S-OTHER	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLR	DRY	DUSK	ANGL-OTH	TURN	PDO	
SW OREGON ST	2302 SW TUALATIN-SHERWOOD	1 INTER	9	CN	4 3-LEG	0	0 TRF SIGNAL	0	0	0	CLR	DRY	DUSK	ANGL-OTH	TURN	PDO	

CDACH F												1410	60D							_						
CRASH_E					-		LONGTO	IONICTO	ONCTO					VHCL_USE_		VHCL_OWNS	S VHCL_MIVIMIN	D FROM CHOR	T VHCL_CMPSS_D							
VN1_3_C	CRASH_CA C	CRASH_CA	CRASH_CA L	DEG MINUT	E		LONGID	LONGID	LONGID			STRIKG_V ED_S	EQ_N_VHCL_TYP_S	H SHORI_DES		HP_SHORT_L	D I_SHORI_DE	R_FROM_SHOR	I IR_TO_SHORT_	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA
D	USE_1_CD (	USE_2_CD	USE_3_CD M	NO NO	LAT SEC NO L	AI	DEG NO	MINUTE NO	SEC NO	LONG	VHCL_ID	HCL_FLG O	ORT_DESC	L	Y	ESC	SC	_DESC	DESC	IN_CD	NI_1_CD	NI_Z_CD	NI_3_CD	USE_1_CD	USE_2_CD	USE_3_CD
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3194120	1	1 SEMI TOW	NONE	9	N/A	STRGHT	W	E	0				0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3194121	0	2 PSNGR CAR	NONE	9	N/A	TURN-R	5	E	(	)			0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3309539	1	1 PSNGR CAR	NONE	9	N/A	STRGHT	W	E	(				0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3309540	0	2 PSNGR CAR	NONE	9	N/A	TURN-R	S	E	(	י			0		
	32			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	2985995	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	E	w	0	)			0		
	32			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	2985996	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	E	W	11	L 13	3		0		
	32			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	2985997	0	3 PSNGR CAR	NONE	0	PRVTE	STOP	E	W	12	2			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3035988	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W	0	)			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3035989	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	E	W	11	l 13	3		0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3035990	0	3 PSNGR CAR	NONE	0	PRVTE	STOP	E	w	22	2			0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3158458	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0				0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3158459	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	E	w	11	L 13	3		0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3158460	0	3 PSNGR CAR	NONE	0	PRVTE	STOP	E	W	22	2			0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3215244	1	1 PSNGR CAR	NONE	9	N/A	STRGHT	E	w	(				0		
	29			45	22 5.83	45 36828611	-122	48	58.75	-122 8163194	3215245	0	2 PSNGR CAR	NONE	9	N/A	STOP	F	W	11				0		
	7			45	22 5.05	45.36828611	-122	40	58.75	-122.0103194	3261121	1	1 PSNGR CAR	NONE		DR\/TE	STRGHT	F	W		1			0		
	7			45	22 5.05	45.36828611	122	40	50.75	122.0103104	3261121	-	2 DENCE CAR	NONE		DDV/TE	STOP	c	14/	11	1 17	,		0		
	7			45	22 5.65	45.50626011	-122	40	56.75	-122.0103194	3261122	0	2 PSINGR CAR	NONE	0	PRVIE	STOP	C C	W	11	1 15	<u> </u>	-	0		
				45	22 5.83	45.30828011	-122	48	58.75	-122.8163194	3261123	0	3 PSNGR CAR	NONE	0	PRVIE	STOP	E	vv	20	2			0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3346324	1	1 PSNGR CAR	NONE	0	UNKN	STRGHT	E	W					0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3346325	0	2 PSNGR CAR	NONE	0	PRVTE	STRGHT	E	W	(	)			0		
	29			45	22 5.93	45.36831389	-122	48	58.75	-122.8163194	3434840	1	1 PSNGR CAR	NONE	9	N/A	STRGHT	E	W	(	2			0		
	29			45	22 5.93	45.36831389	-122	48	58.75	-122.8163194	3434841	0	2 PSNGR CAR	NONE	9	N/A	STOP	E	W	12	2			0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3082003	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N	0	D			0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3082004	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	S	N	11	L			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3093584	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	S	N	0				0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3093585	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	s	N	11	L			0		
	32	7		45	22 5.829132	45.36828587	-122	48	58.7545559	-122.8163207	2954863	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	w	E	(				0		
	32	7		45	22 5.829132	45.36828587	-122	48	58,7545559	-122.8163207	2954864	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11	L			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3140062	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	F	(	)			0		
	7			45	22 5.83	45 36828611	-122	48	58.75	-122 8163194	3140063	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	W	F	11	1			0		
	7			45	22 5.83	45 36828611	-122	48	58 75	-122 816319/	3179626	1	1 PSNGR CAR	NONE	0	DB//TE	STRGHT	W	F		1			ů 0		
	7			45	22 5.05	45.36828611	122	40	50.75	122.0103134	2170627	0	2 DENIGR CAR	NONE	0	DR\/TE	STOP	W/	c	11	1 12	,		0		
	7			45	22 5.83	45.30828011	122	40	50.75	122.8103134	3179027	0	2 PSNOR CAR	NONE	0		STOP	14/	C	22	1 13			0		
	27		22	43	22 5.05	45.50626011	-122	40	50.75	-122.0103194	31/9020	1	1 DENCE CAR	NONE	0		STOP	14/	c c		2			0		
	27	29	32	45	22 5.83	45.30828011	-122	48	58.75	-122.8165194	3241121	1	I PSNGR CAR	NONE	0	PRVIE	SIRGHI	vv	E		1			0		
	27	29	32	45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3241122	0	2 PSNGR CAR	NONE	0	PRVIE	STOP	W	E	11	1 13	3		0		
	27	29	32	45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3241122	0	2 PSNGR CAR	NONE	0	PRVTE	STOP	W	E	11	13	3		0		
	27	29	32	45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3241123	0	3 PSNGR CAR	NONE	0	PRVTE	STOP	W	E	22	2 13	3		0		
	27	29	32	45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3241124	0	4 PSNGR CAR	NONE	0	PRVTE	STOP	W	E	22	2			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3266038	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	(	2			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3266039	0	2 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	6	5			0		
	7			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3266039	0	2 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	6	5			0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3303907	1	1 PSNGR CAR	NONE	9	N/A	STRGHT	W	E	0				0		
	29			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3303908	0	2 PSNGR CAR	NONE	9	N/A	STOP	W	E	11	1			0		
	27	7		45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3306998	1	1 PSNGR CAR	NONE	9	N/A	STRGHT	W	E					0		
	27	7		45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3306999	0	2 PSNGR CAR	NONE	9	N/A	STOP	W	E	11	L			0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	w	E	(	)			0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E		D			0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3011429	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	(				0		
	2			45	22 5,83	45.36828611	-122	48	58,75	-122.8163194	3011429	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E					0		
	2			45	22 5.83	45.36828611	-122	40	58.75	-122.8163194	3011430	0	2 PSNGR CAR	NONE	0	PRVTE	TURN-L	E	s		13	3		0		
	2			45	22 5.83	45 36828611	-122	40	58.75	-122 8163194	3011431	0	3 PSNGR CAR	NONE	1 0	PRVTE	STOP	s	N	11				0		
	2			45	22 5.05	45.36828611	-122	40	58.75	-122.0103194	3042186	1	1 PSNGR CAR	NONE	0	DR\/TE	STRGHT	W	F					0		
	2			45	22 5.05	45.50020011	122	40	50.75	122.0103134	2042186	1	1 DENICE CAR	NONE	0	DRVTE	STRCHT	14/	c					0		
	2			45	22 5.03	45.30828011	122	40	50.75	122.8103134	3042180		2 DENCE CAR	NONE	0	DRVTE	TUDNU	5	C					0		
	2			43	22 5.85	45.50626011	-122	40	56.75	-122.8165194	3042187	0	2 PSINGR CAR	NONE	0	PRVIE	TURN-L	5	3					0		
	2			45	22 5.83	45.30828011	-122	48	58.75	-122.8103194	3042187	0	2 PSINGR CAR	NONE	0	PRVIE	IORIN-L	E	3		1			0		
	2		L	45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	30/1874	1	1 PSNGR CAR	NONE		PRVIE	SIRGHI	VV	t.	-	1	-		0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3071875	0	2 PSNGR CAR	NONE	0	PRVTE	TURN-L	E	5					0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3150655	1	1 PSNGR CAR	NONE	0	PRVTE	I URN-L	E	S	1 (	J 87	1		0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3150656	0	2 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	0	13	8 87	7	0		
	4			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3150657	0	3 PSNGR CAR	NONE	0	PRVTE	STOP	S	N	22	2 87	/		0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3171765	1	1 PSNGR CAR	NONE	0	PRVTE	TURN-L	E	S	0				0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3171766	0	2 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	(	)			0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3175766	1	1 PSNGR CAR	NONE	0	PRVTE	STRGHT	W	E	(				0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3175767	0	2 PSNGR CAR	NONE	0	PRVTE	TURN-L	E	S	0	)			0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3206523	1	1 PSNGR CAR	NONE	9	N/A	TURN-L	E	S	0				0		
	2			45	22 5.83	45.36828611	-122	48	58.75	-122.8163194	3206524	0	2 SEMI TOW	NONE	9	N/A	STRGHT	W	E	(				0		
	2			45	22 5.02	45 26020611	122	40	E 9 7 E	122 916210/	3270212	1	1 PSNGP CAP	NONE	1 1	DD//TE	STRGHT	14/	E	1		1		0		1

| 2   |                |    | 45 2   
   | 2 5 6 2   
   
  | 15 26020611  | 122  | 10   | E0 7E 100 016   
  | 104 2270212  
   | 1  | 1 DENCE CAR   | NONE   | 1.0  | DDV/TE   
  | стронт  | W  | c   |   |    |  | 0  |    |
|---|----------------|----
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---|---|--|---|---|----|--|--|----|
| <br>2   |                |    | 4J Z   
   | 2 5.83  
   
  | 43.30828011  | -122   | 40   | 38.73 -122.810  
  | 194 3270212  
   | 1  | 1 FONGR CAR   | NONE   | 1 1  | RVIL   
  | SINGHI  |  | L.  | 0   |    |  | 0  |    |
| 2   |                |    | 45 Z   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3270213  
   | 0  | 2 PSNGR CAR   | NONE   | 0 P  | RVIE   
  | TURN-L  | Ł  | 5   | 0   |    |  | 0  |    |
| 4   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3270525  
   | 1  | 1 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STRGHT  | W  | E   | 0   | 8  | 7  | 0  |    |
| 4   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3270526  
   | 0  | 2 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | TURN-L  | E  | S   | 0   | 8  | 7  | 0  |    |
| 4   |                |    | 45 2   
   | 2 5.83  
   
  | 45 36828611  | -122   | 48   | 58 75 -122 816  
  | 194 3273470  
   | 1  | 1 PSNGR CAR   | NONE   | 0.P  | RVTE   
  | TURN-I  | F  | s   | 0   |    |  | 0  |    |
|   |                |    | 45 2   
   | 2 5.05  
   
  | 45.26929611  | 122  | 49   | E9 75 122.010   
  | 104 2272471  
   |  | 2 DENCE CAR   | NONE   | 0.0  | DRIVE  
  | STRCHT  | -<br>w   | c   |   |    |  | 0  |    |
| <br>4   |                |    | 45 Z   
   | 2 5.83  
   
  | 45.30828011  | -122   | 48   | 58.75 -122.816  
  | 194 32/34/1  
   | 0  | Z PSINGR CAR  | NONE   | 0 P  | RVIE   
  | SIRGHI  | vv   | t   | 0   |    |  |  |    |
| <br>4   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3273471  
   | 0  | 2 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 4   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3273471  
   | 0  | 2 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 2   | 1              |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3324065  
   | 1  | 1 PSNGR CAR   | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 2   | 1              |    | 45 2   
   | 2 5 92  
   
  | AE 26020611  | 122  | 49   | E0 7E 100 016   
  | 104 2224066  
   | 0  | 2 DENCE CAR   | NONE   | 0.1  | 1/A  
  | TURNU   | E  | c   | -   |    |  | 0  |    |
| 2   | 1              |    | 4J Z   
   | 2 5.83  
   
  | 45.50828011  | -122   | 40   | 38.73 -122.810  
  | 154 3524000  
   | 0  | 2 F3NGR CAR   | NONE   | 9 N  | N/A  
  | TURNE   | E  | 3   | 0   |    |  | 0  |    |
| <br>2   |                |    | 45 Z   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3194950  
   | 1 1  | I PSNGR CAR   | NUNE   | 9 N  | N/A  
  | TURN-R  | 5  | t   | 0   |    |  | <br>   |    |
| 2   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3194951  
   | . 0  | 2 PSNGR CAR   | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 2   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3303294  
   | 1  | 1 SEMI TOW  | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 2   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3303295  
   | 0  | 2 PSNGR CAR   | NONE   | 9 N  | N/A  
  | TURN-R  | S  | F   | 0   |    |  | 0  |    |
| -   |                |    | 45 2   
   | 2 5.92  
   
  | 45 26929611  | -122   | 49   | 59 75 .122 916  
  | 194 2204246  
   | 1  | 1 SEMITOW   | NONE   | 9 N  | 1/A  
  | TUPNER  | c  | -<br>c  | -   |    |  | <br>-  |    |
| <br>0   |                |    | 45 2   
   | 2 5.00  
   
  | 45.30020011  | 122  | 40   | 50.75 122.010   
  | 104 0004240  
   |  |   | NONE   |  |  
  | TUDU D  | 5  | c.  |   |    |  |  |    |
| 0   |                |    | 45 Z   
   | 2 5.85  
   
  | 45.30828011  | -122   | 48   | 58.75 -122.810  
  | 194 3304247  
   | 0  | 2 PSINGR CAR  | NUNE   | 9 10   | N/A  
  | TURIN-R   | 3  | E.  | 0   |    |  |  |    |
| <br>2   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3320947  
   | 1  | 1 PSNGR CAR   | NONE   | 9 N  | N/A  
  | TURN-R  | 5  | E   | 0   |    |  | 0  |    |
| 2   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3320948  
   | 0  | 2 SEMI TOW  | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 2   |                |    | 45 2   
   | 2 5.83  
   
  | 45.36828611  | -122   | 48   | 58.75 -122.816  
  | 194 3320965  
   | 1  | 1 PSNGR CAR   | NONE   | 9 N  | N/A  
  | TURN-R  | S  | E   | 0   |    |  | 0  |    |
| 2   |                |    | 45 2   
   | 2 5.83  
   
  | 45 36828611  | -122   | 48   | 58 75 -122 816  
  | 194 3320966  
   | 0  | 2 SEMI TOW  | NONE   | 9 N  | λ/Δ  
  | STRGHT  | w  | F   | 0   |    |  | 0  |    |
| <br>20  | 16             | 22 | 45 2   
   | 2 5.05  
   
  | 45.26920556  | 122  | 40   | 59.03 122.010   
  | 167 2156007  
   | 1  | 1 DENCR CAR   | NONE   | 00   | DDVTE  
  | STRCHT  | W/   | c   |   |    |  | 0  |    |
| 29  | 16             | 32 | 43 2   
   | 2 5.9   
   
  | +3.30650355  | -122   | 48   | 50.02 -122.816  
  | 101 2120331  
   |  | 1 PSIVGN CAR  | NONE   | 0 P  | INVIE  
  |   | **   | с.<br>г   | -   | -  |  |  |    |
| 29  | 16             | 32 | 45 2   
   | 2 5.9   
   
  | 45.36830556  | -122   | 48   | 58.02 -122.816  
  | 167 3156998  
   | 0  | 2 TRUCK   | NONE   | 0 P  | KVIE   
  | PKKD-P  | w  | Ł   | 8   | 69 | 1  | 0  |    |
| 29  |                |    | 45 2   
   | 2 6.03  
   
  | 45.36834167  | -122   | 48   | 57.8 -122.816   
  | 556 3428864  
   | 1  | 1 PSNGR CAR   | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 29  |                |    | 45 2   
   | 2 6.03  
   
  | 45.36834167  | -122   | 48   | 57.8 -122.816   
  | 556 3428865  
   | 0  | 2 PSNGR CAR   | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 7   |                |    | 45 2   
   | 2 6.04  
   
  | 45,36834444  | -127   | 48   | 56.71 -122.815  
  | 528 3055847  
   | 1  | 1 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 7   |                |    | 45 2   
   | 2 6.04  
   
  | 45 36834444  | -122   | 10   | 56 71 -122 915  
  | 528 3055949  
   | 0  | 2 PSNGR CAP   | NONE   | 0.0  | PR\/TE   
  | STOP  | W  | F   | 11  |    |  | 0  |    |
| /   |                |    | 45 2   
   | 2 0.04  
   
  | 45.30034444  | -122   | 40   | 50.71 -122.815  
  | 520 3055848  
   |  | 2 PONON CAR   | NONE   |  | NVIL DDVCTC  
  | STOP  | 14/  | с.<br>Г   |   |    |  | 0  |    |
| <br>7   |                |    | 45 2   
   | 2 6.04  
   
  | 45.36834444  | -122   | 48   | 56./1 -122.815  
  | 528 3055849  
   | <u> </u>   | 3 PSNGR CAR   | NONE   | 0 P  | KVIE   
  | SIKGHI  | vv   | t.  | 22  | -  |  | 0  |    |
| 7   | 1              |    | 45 2   
   | 2 6.01  
   
  | 45.36833611  | -122   | 48   | 56.99 -122.815  
  | 306 3212741  
   | 1  | 1 PSNGR CAR   | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 7   | 1              |    | 45 2   
   | 2 6.01  
   
  | 45.36833611  | -122   | 48   | 56.99 -122.815  
  | 306 3212742  
   | 0  | 2 PSNGR CAR   | NONE   | 9 N  | N/A  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 29  |                |    | 45 2   
   | 2 6.23  
   
  | 45.36839722  | -122   | 48   | 54.77 -122.815  
  | 139 3265077  
   | 1  | 1 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STRGHT  | W  | E   | 0   |    |  | 0  |    |
| 20  |                |    | 45 2   
   | 2 6.23  
   
  | 45 36839722  | -122   | 48   | 54 77 -122 815  
  | 130 3265078  
   |  | 2 PSNGR CAR   | NONE   | 0.0  | PRV/TE   
  | STOP  | W  | F   | 11  | 13 | 2  | 0  |    |
| <br>2.5   |                |    | 45 2   
   | 2 0.23  
   
  | 45.30033722  | -122   | 40   | 54.77 422.015   
  | 130 3205070  
   |  | 2 DONICH CAR  | NONE   | 0  | DUCTE  
  | GTOP  | 14/  | c   | 11  |    |  |  |    |
| <br>29  |                |    | 45 Z   
   | 2 6.23  
   
  | 45.36839722  | -122   | 48   | 54.77 -122.815  
  | 139 3265078  
   | 0  | 2 PSINGR CAR  | NONE   | 0 P  | RVIE   
  | STOP  | vv   | t   | 11  | 1: | 3  | 0  |    |
| 29  |                |    | 45 2   
   | 2 6.23  
   
  | 45.36839722  | -122   | 48   | 54.77 -122.815  
  | 139 3265079  
   | 0  | 3 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STOP  | W  | E   | 22  | 13 | 3  | 0  |    |
| 29  |                |    | 45 2   
   | 2 6.23  
   
  | 45.36839722  | -122   | 48   | 54.77 -122.815  
  | 139 3265080  
   | 0  | 4 PSNGR CAR   | NONE   | 0 P  | PRVTE  
  | STOP  | W  | E   | 22  |    |  | 0  |    |
| 7   |                |    | 45 2   
   | 2 6 4500620   
   
  |  | 100  | 10   |   
  |  
   |  | 1 001100 010  |  |  |  
  | own ou um   | r  | 147   |   |    |  | 0  |    |
|   |                |    | 4-3 2  
   | 2 6.1508639   
   
  | 45.36837524  | -122   | 48   | 55.5901919 -122.815   
  | 417 2932427  
   | 1 1  | 1 PSNGR CAR   | NONE   | 0 P  | RVIE   
  | SIRGHI  | E  | Ivv   | 0   |    |  | 0  |    |
| 7   |                |    | 45 2   
   | 2 6.1508639   
   
  | 45.36837524  | -122   | 48   | 55.5901919 -122.815   
  | 417 2932427  
   | 1  | 2 PSNGR CAR   | NONE   | 0 P  | RVTE   
  | STRGHT  | E  | w   | 0   |    |  | 0  |    |
| 7   |                |    | 45 2   
   | 2 6.1508639   
   
  | 45.36837524<br>45.36837524<br>45.36833056  | -122   | 48   | 55.5901919 -122.815<br>55.5901919 -122.815<br>57.19 -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643  
   | 1 0  | 2 PSNGR CAR   | NONE   | 0 P<br>0 P   | PRVTE  
  | STRGHT  | E  | W   | 6   |    |  | 0  |    |
| <br>7 29  |                |    | 45 2<br>45 2<br>45 2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99  
   
  | 45.36837524<br>45.36837524<br>45.36833056  | -122<br>-122<br>-122   | 48<br>48<br>48   | 55.5901919 -122.815<br>55.5901919 -122.815<br>57.19 -122.815<br>57.19 -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643  
   | 1<br>0<br>1  | 2 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR   | NONE<br>NONE<br>NONE   | 0 P<br>0 P   | PRVTE<br>PRVTE<br>PRVTE  
  | STRGHT<br>STRGHT<br>STRGHT  | E  | W<br>W<br>W   | 06  |    |  | 0  |    |
| 7<br>29<br>29   |                |    | 45 2<br>45 2<br>45 2<br>45 2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056   | -122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48   | 55.5901919 -122.815<br>55.5901919 -122.815<br>57.19 -122.815<br>57.19 -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644   
   | 1<br>0<br>1<br>0   | 2 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR  | NONE<br>NONE<br>NONE<br>NONE                                 | 0 P<br>0 P<br>0 P  | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   
  | STRGHT<br>STRGHT<br>STRGHT<br>STOP  | E<br>E<br>E  | w<br>w<br>w<br>w  | 0<br>6<br>0<br>11   | 1: | 3  | 0  |    |
| 7<br>29<br>29<br>29   |                |    | 45         2           45         2           45         2           45         2           45         2           45         2           45         2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056  | -122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48   | 55.5901919 -122.815<br>55.5901919 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645  
   | 1<br>0<br>1<br>0   | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE                         | 0 P<br>0 P<br>0 P<br>0 P   | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE  
  | STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STOP  | E<br>E<br>E<br>E   | W<br>W<br>W<br>W  | 0<br>6<br>0<br>11<br>22   | 1: | 3  | 0<br>0<br>0<br>0   |    |
| 7<br>29<br>29<br>29<br>29<br>29   |                |    | 45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056   | -122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48   | 55.5901919 -122.815<br>55.5901919 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645<br>861 3132645<br>861 3132645  
   | 1<br>0<br>1<br>0<br>0  | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR  | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE                 | 0 P<br>0 P<br>0 P<br>0 P<br>0 P  | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   
  | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP  | E<br>E<br>E<br>E<br>E  | w<br>w<br>w<br>w<br>w   | 0<br>6<br>0<br>11<br>22<br>22   | 1: | 3  | 0<br>0<br>0<br>0<br>0  |    |
| 7<br>29<br>29<br>29<br>29<br>29<br>7  |                |    | 45 2<br>45 2<br>45 2<br>45 2<br>45 2<br>45 2<br>45 2<br>45 2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48   | 55.5901919 -122.815<br>55.5901919 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>57.19 -122.815<br>55.22 -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645<br>861 3132645<br>861 3132645<br>389 3143436   
   |  | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE                 | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P  | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE  
  | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STOP<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E   | w<br>w<br>w<br>w<br>w<br>w  | 0<br>6<br>0<br>11<br>22<br>22<br>22<br>0  | 13 | 3  | 0<br>0<br>0<br>0<br>0<br>0   |    |
| 7<br>29<br>29<br>29<br>29<br>29<br>7<br>7   |                |    | 45 2<br>45 2<br>45 2<br>45 2<br>45 2<br>45 2<br>45 2<br>45 2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48   | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.2         -122.815           55.22         -122.815   
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645<br>861 3132645<br>861 3132645<br>389 3143436<br>389 3143436  
   |  | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR  | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE                 | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | PRVTE  
  | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E   | w<br>w<br>w<br>w<br>w<br>w  | 0<br>6<br>0<br>11<br>22<br>22<br>22<br>0<br>0   | 1: | 3  | 0<br>0<br>0<br>0<br>0<br>0   |    |
| 7<br>29<br>29<br>29<br>29<br>29<br>7<br>7<br>7  |                |    | 45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2  
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838056<br>45.36838611<br>45.36838611   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48   | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.2         -122.815           55.22         -122.815           55.22         -122.815           57.20         -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645<br>861 3132645<br>389 3143436<br>389 3143437<br>389 3143437  
   |  | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR   | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P  | PRVTE  
  | STRGHT<br>STRGHT<br>STROP<br>STOP<br>STOP<br>STRGHT<br>STRGHT   | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E   | W<br>W<br>W<br>W<br>W<br>W<br>W   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>6  | 1: | 3  | 0<br>0<br>0<br>0<br>0<br>0<br>0  |    |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>29   |                |    | 45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2  
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.01  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611<br>45.36838611  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48   | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.22         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645<br>861 3132645<br>861 3132645<br>389 3143436<br>389 3143437<br>361 3326729   
   | 1<br>0<br>1<br>0<br>0<br>1<br>1<br>0<br>1  | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | RVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>VVTE  
  | STRGHT<br>STRGHT<br>STROP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT   | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E   | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W  | 0<br>6<br>0<br>11<br>22<br>22<br>22<br>0<br>6<br>6<br>0   | 13 | 3  |  |    |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>29<br>29   |                |    | 45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2           45         2   
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.01  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833051<br>45.36833611<br>45.36833611<br>45.36833611  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48   | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.22         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815   
  | 417         2932427           417         2932428           861         3132644           861         3132645           861         3132645           861         3132645           389         3143436           389         3143436           389         3143437           361         3326729           361         3326730  
   | 1<br>0<br>1<br>0<br>0<br>1<br>1<br>0<br>1<br>0   | 1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | VRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>VVTE<br>V/A   
  | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E   | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W   | 0<br>6<br>0<br>11<br>22<br>22<br>0<br>6<br>6<br>0<br>0<br>11  |    | 3  |  |    |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>29<br>29<br>29<br>32   | 22             |    | 43         22           445         22  
   | 2         6.1508639           2         6.1508639           2         5.99           2         5.99           2         5.99           2         6.19           2         6.19           2         6.19           2         6.19           2         6.19           2         6.01           2         6.01           2         5.68  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611<br>45.36833611<br>45.36833611   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49   | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.20         -122.815           55.22         -122.815           55.23         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.02         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           67.01         -122.815           67.02         -122.815  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132644<br>861 3132645<br>389 3143436<br>389 3143436<br>389 3143437<br>361 3326729<br>361 3326730<br>472 3032022  
   | 1<br>0<br>1<br>0<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1   | 1 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>V/A<br>PRVTE<br>PRVTE   
  | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W   | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>111<br>0<br>0   | 1: | 3  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>29<br>29<br>29<br>29<br>32   | 22 22          |    | 4-5         2            
   | 2 6.1508639<br>2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.01<br>2 6.01<br>2 6.01<br>2 5.68   
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611<br>45.36838611<br>45.36833611<br>45.36824444<br>45.36824444   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4  | 55.59(019)         -122.815           55.59(019)         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.2         -122.815           55.2         -122.815           57.0         -122.815           57.0         -122.815           57.01         -122.815           57.01         -122.815           0.29         -122.815           0.29         -122.815   
  | 417         2932427           417         2932428           417         2932428           417         2932428           417         2932427           417         2932428           413         132643           861         3132644           861         3132645           389         3143436           389         3143437           361         3326730           472         3032022           472         3032023   
   | 1<br>0<br>1<br>0<br>0<br>1<br>1<br>0<br>1<br>0<br>1<br>1<br>0<br>0   | 1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>2 PSNGR CAR  | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>V/A<br>V/A<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   
  | STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STOP<br>STRGHT<br>STOP  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W  | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E<br>E   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>0<br>0<br>111<br>0<br>0<br>111   | 1: | 3<br>  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>29<br>29<br>32<br>32<br>32<br>7   | 22<br>22       |    | 45         2            
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.11<br>2 6.01<br>2 6.01<br>2 5.68<br>2 5.68<br>2 5.68  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611<br>45.36838611<br>45.36824444<br>45.36824444<br>45.36824444   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4  | 55.501919 - 122.815<br>55.501919 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>55.22 - 122.815<br>55.22 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>0.29 - 122.816<br>0.29 - 122.816<br>0.84 - 122.   
  | 417 2932427<br>417 2932427<br>417 2932428<br>861 3132643<br>861 3132643<br>861 3132643<br>889 3143436<br>389 3143436<br>389 3143436<br>3326729<br>361 3326730<br>472 3032022<br>472 3032022  
   | 1<br>0<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0  | 1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR   | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   
  | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STRGHT<br>STOP<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W   | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E<br>E<br>E   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>111<br>0<br>0<br>111  |    | 3  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>29<br>29<br>29<br>32<br>32<br>32<br>7<br>7   | 22<br>22<br>22 |    | 45         2            
   | 2 6.1508639<br>6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.01<br>2 6.01<br>2 6.01<br>2 5.68<br>2 5.68<br>2 5.68  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833611<br>45.36838611<br>45.36838611<br>45.36828611<br>45.3682444<br>45.36824444<br>45.36822478  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49   | 55.5901919 - 122.815<br>55.5901919 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>55.21 - 122.815<br>55.22 - 122.815<br>55.22 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>0.29 - 122.816<br>0.29 - 122.815<br>0.29 - 12  
  | 417 2932427<br>417 2932428<br>417 2932428<br>861 3132643<br>861 3132643<br>8861 3132645<br>389 3143437<br>361 3326729<br>361 3326729<br>361 3326729<br>361 3326729<br>361 3326729<br>361 3326729<br>361 3326729<br>363 355 355 355 355 355 355 355 355 355   | 1<br>0<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0  
  | I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     PSNGR CAR     PSNGR CAR     SPSNGR CAR     PSNGR CAR     PSNG   | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>9 N<br>9 N<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P        | PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W   | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E<br>E<br>E<br>E<br>E   | 0<br>6<br>0<br>11<br>22<br>22<br>0<br>0<br>6<br>0<br>0<br>11<br>11<br>0<br>0<br>111   |    | 3  |  | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>29<br>29<br>32<br>32<br>32<br>32  | 22<br>22<br>22 |    | 45         2             
   | 2         6.1508639           2         6.1508639           2         5.99           2         5.99           2         5.99           2         6.19           2         6.19           2         6.19           2         6.19           2         6.01           2         6.68           2         5.68           2         5.62           2         5.62           2         5.62  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833611<br>45.36838611<br>45.36838611<br>45.36824444<br>45.36822478<br>45.36822478  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49   | 55.501919 - 122.815<br>55.501919 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>55.22 - 122.815<br>55.22 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>60.29 - 122.816<br>0.29 - 122.816<br>0.24 - 122.815<br>0.25 - 122.815<br>0.25 - 122.815<br>0.25 - 122.815<br>0.26 - 122.815<br>0.27 - 122.815<br>0.28 - 122.815<br>0.29 - 122.816<br>0.29 - 122.816<br>0.29 - 122.815<br>0.29 - 1  
  | 417 2932427<br>417 2932428<br>417 2932428<br>417 2932428<br>417 2932428<br>413 132643<br>4132643<br>41312644<br>41312645<br>41312645<br>41312645<br>41312645<br>41312645<br>41312645<br>41312645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>4132645<br>413665<br>4136656<br>4136656<br>4136656<br>4136656<br>41366566<br>41366566<br>41366566<br>41366566<br>41366566<br>413665666<br>4136656666666666666666666666666666666666  
   | 1<br>0<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0  | 1 PSNGR CAR<br>2 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>3 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR<br>2 PSNGR CAR<br>1 PSNGR CAR<br>2 PSNGR CAR  | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>9 N<br>9 N<br>9 N<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P | PRVTE   | STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT   
  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W                          | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E<br>E<br>E<br>E<br>E<br>E   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>111<br>11<br>0<br>0<br>0<br>6<br>6  |    | 3  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>29<br>29<br>32<br>32<br>32<br>7<br>7<br>7   | 22<br>22<br>22 |    | 45         2             
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.11<br>2 6.01<br>2 6.01<br>2 6.01<br>2 5.68<br>2 5.68<br>2 5.62<br>2 5.62<br>2 5.62  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833051<br>45.36833051<br>45.36823611<br>45.36824444<br>45.36822778<br>45.36822778<br>45.36822778  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4  | 55.501919 - 122.815<br>55.901919 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.29 - 122.815<br>55.22 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>0.29 - 122.816<br>0.29 - 122.815<br>0.29 - 122.  
  | 417 2932427<br>417 2932428<br>861 3132643<br>861 3132643<br>861 3132644<br>861 3132645<br>861 3132645<br>389 3143436<br>389 3143436<br>389 3143436<br>389 3143436<br>3126730<br>472 3032022<br>472 3032022<br>472 3032022<br>472 3032023<br>472 3032023<br>473 473 473 473 473 473 473 473 473 473   | 1<br>0<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0  
  | I PSNGR CAR     PSNGR CAR     PSNGR CAR     PSNGR CAR     PSNGR CAR     SNGR CAR     PSNGR CAR  | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | RVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>V/A<br>V/A<br>V/A<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   | STRGHT           STRGHT           STOP           STOP           STOP           STOP           STRGHT  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W                | W W W W W W W W W W W W W W E E E E E E   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>111<br>0<br>0<br>111<br>0<br>0<br>6<br>6<br>0<br>0  |    | 3<br>3<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5                     |  | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7   | 22<br>22<br>22 |    | 45         2            
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.99<br>2 6.99<br>2 6.19<br>2 6.19<br>2 6.01<br>2 6.01<br>2 5.68<br>2 5.62<br>2 5.62<br>2 5.65  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833611<br>45.36833611<br>45.36823414<br>45.36824444<br>45.36824444<br>45.36822778<br>45.36822778<br>45.36822781<br>45.36822781  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49                                     | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.22         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           60.29         -122.816           0.28         -122.816           0.84         -122.           0.59         -122.816           0.59         -122.816   
  | 417         2932427           417         2932428           417         2932428           417         2932428           417         2932428           461         3132643           861         3132643           861         3132643           861         3132643           861         3132643           389         3143436           389         3143437           361         3326729           361         3326729           361         332022           472         3032022           472         3032022           472         3033840           169         3033840           169         3033840           306         3044971           306         3044971   
   | 1<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0   | I PSNGR CAR     PSNGR CAR     PSNGR CAR     PSNGR CAR     PSNGR CAR     SSNGR CAR     PSNGR CAR   | NONE NONE NONE NONE NONE NONE NONE NONE                      | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | RVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE<br>PRVTE   
  | STRGHT           STRGHT           STRGHT           STOP           STOP           STOP           STRGHT   | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W                | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E<br>E<br>E<br>E<br>E<br>E  | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>6<br>6<br>0<br>0<br>111<br>0<br>0<br>111<br>0<br>0<br>6<br>6<br>6<br>0<br>0<br>6<br>6  |    | 3<br>3<br>4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>29<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>29   | 22 22 22       |    | 4-5         2            
   | 2 6.1508639<br>2 6.508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.99<br>2 6.99<br>2 6.99<br>2 6.19<br>2 6.19<br>2 6.01<br>2 6.01<br>2 6.01<br>2 5.68<br>2 5.68<br>2 5.62<br>2 5.65<br>2 5.65   
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.3683611<br>45.36838611<br>45.36838611<br>45.36823611<br>45.36824444<br>45.36822444<br>45.36822778<br>45.36822778<br>45.36822718  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49                   | 55.5901919         -122.815           55.5901919         122.815           57.19         122.815           57.19         122.815           57.19         122.815           55.22         122.815           57.01         122.815           55.22         122.815           57.01         122.815           57.01         122.815           57.01         122.815           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.50         122.816           0.50         122.816           0.51         122.816           0.52         122.816           0.53         122.816           0.54         122.816  
  | 417         2932427           417         2932428           417         2932428           861         3132643           861         3132643           861         3132645           861         3132645           889         3143436           389         3143436           381         3326730           472         3032022           472         3032022           476         303840           169         303841           306         3044971           306         3044971           306         3044971           306         3044971  
   | 1<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1   | I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SNGR CAR     SNGR CAR     SNGR CAR     I PSNGR CAR     I  | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | YRVTE   | STRGHT           STRGHT           STRGHT           STOP           STOP           STOP           STRGHT           STRGHT           STRGHT           STRGHT           STRGHT           STRGHT           STOP           STRGHT           STOP           STRGHT           STRGHT           STRGHT           STRGHT           STRGHT           STRGHT           STRGHT           STRGHT   
  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W | W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E  | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>111<br>11<br>0<br>0<br>6<br>6<br>6<br>0<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>0                                   |    | 3<br>3<br>3<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 22 |
| 7<br>29<br>29<br>29<br>29<br>29<br>7<br>7<br>29<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>29<br>29   | 22<br>22<br>22 |    | 4-5         2           45         2  
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.99<br>2 6.99<br>2 6.99<br>2 6.19<br>2 6.01<br>2 6.01<br>2 6.01<br>2 5.68<br>2 5.68<br>2 5.68<br>2 5.65<br>2 5.65<br>2 5.65  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833611<br>45.36838611<br>45.36838611<br>45.3682444<br>45.3682444<br>45.36822478<br>45.36822778<br>45.36822778<br>45.36822611<br>45.36823611  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4  | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.22         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           0.29         -122.816           0.29         -122.816           0.84         -122.           0.84         -122.           0.50         -122.816           0.50         -122.816           0.50         -122.816           0.51         -122.816           0.52         -122.816           0.53         -122.816           0.54         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816  
  | 417         2932427           417         2932428           417         2932428           861         3132643           861         3132643           861         3132645           861         3132645           861         3132645           8861         3132645           8861         3132645           8861         3132645           389         3143436           389         3143437           361         3326730           472         3032023           169         303840           169         303840           169         30344971           306         3044971           305         3064607           325         3064607  
   | 1<br>0<br>0<br>0<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | I PSNGR CAR     PSNGR CAR     PSNGR CAR     PSNGR CAR     PSNGR CAR     SSNGR CAR     PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | RVTE           PRVTE  | STRGHT           STRGHT           STRGHT           STOP           STOP           STOP           STRGHT   
  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W | W W W W W W W W W W W W W W E E E E E E   | 0<br>6<br>0<br>111<br>222<br>222<br>0<br>6<br>6<br>0<br>0<br>0<br>111<br>0<br>0<br>111<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>111                           |    | 3  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>29<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>32                               | 22<br>22<br>22 |    | 4-5         2            
   | 2 6.1508639<br>2 6.1508639<br>2 5.99<br>2 5.99<br>2 5.99<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.11<br>2 6.01<br>2 5.68<br>2 5.62<br>2 5.65<br>2 5.65<br>2 5.65<br>2 5.65  
   
  | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611<br>45.36823611<br>45.36824444<br>45.36822478<br>45.368224444<br>45.36822778<br>45.368223611<br>45.36823611   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>4  | 55.501919 - 122.815<br>55.501919 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.19 - 122.815<br>57.29 - 122.815<br>55.22 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>57.01 - 122.815<br>0.29 - 122.816<br>0.24 - 122.816<br>0.24 - 122.816<br>0.25 - 122.816<br>0.25 - 122.816<br>0.57 - 122.818<br>0.57 - 122.8  
  | 1417         2932427           1417         2932427           1417         2932427           1417         2932427           1417         2932427           1417         2932427           1313643         3132643           1313643         3132643           1313643         3132643           1313643         3132643           132612         3132643           132612         3132643           132613         312643           132613         312643           132613         326730           132643         3032022           132643         3032022           14163         303841           150         303841           1616         303841           1616         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3044971           1030         3   
   | 1<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1   | I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SynGR CAR     SynGR CAR     SynGR CAR     I PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | 'RVTE   | STRGHT           STRGHT           STRGHT           STOP           STOP           STOP           STOP           STRGHT   | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W | W W W W W W W W W W W W W W E E E E E E   
                                 | 0<br>6<br>0<br>0<br>111<br>222<br>222<br>222<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>111<br>0<br>0<br>6<br>6<br>6<br>0<br>0<br>0<br>0<br>111                                   |    | 3  |  | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>29<br>9<br>29<br>29<br>29<br>29<br>29  | 22<br>22<br>22 |    | 4-5         2           45         2   
   | 2 5.1906539<br>2 5.1906539<br>2 5.999<br>2 5.999<br>2 5.999<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 6.19<br>2 5.99<br>2 6.19<br>2 6.10<br>2 5.99<br>2 6.19<br>2 6.10<br>2 5.99<br>2 6.10<br>2 6.10<br>2 5.99<br>2 6.10<br>2 5.99<br>2 6.10<br>2 5.99<br>2 6.10<br>2 5.99<br>2 6.10<br>2 6.10<br>2 5.99<br>2 5.99<br>2 6.10<br>2 5.60<br>2 5.65<br>2  
   
              | 45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838611<br>45.36838611<br>45.36838611<br>45.36838611<br>45.3682444<br>45.3682444<br>45.36822478<br>45.36822478<br>45.36822478<br>45.3682241<br>45.36822611<br>45.36823611<br>45.36823611<br>45.36823611   | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49             | 55.301019         -122.815           55.5901191         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.20         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           60.29         -122.816           0.29         -122.816           0.84         -122.           0.84         -122.           0.50         -122.816           0.51         -122.816           0.52         -122.816           0.53         -122.816           0.54         -122.816           0.55         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816  
  | 1417         2932427           1417         2932427           1417         2932427           1417         2932427           1417         2932427           1417         2932427           1313644         3132644           13132643         3132644           13132643         3132643           13132643         3132643           13132643         3132643           13132643         3144363           131326472         302023           1619         30338404           1619         30338404           1619         30338404           1619         30338404           1620         3044971           2020         3046407           2022         30646008           203064008         3064607           203064008         3064607           3010         308472           3010         308472           3019         308472           3019         308472           3019         308472  
   | 1<br>0<br>0<br>0<br>1<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | I PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | RVTE           RVTE           RVTE           RVTE           RVTE           RVTE           RVTE           RVTE           RVTE           VA           VA           VA           VA           VRVTE           RVTE  | STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W | W W W W W W W W W W W W W W E E E E E E  
  | 0<br>6<br>0<br>111<br>222<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>111<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>0<br>111<br>0<br>0<br>0<br>0  |    | 3  |  | 22 |
| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>29<br>9<br>29<br>9   | 22<br>22<br>22 |    | 4-5         2           45         2   
   | 2         5.100639           2         6.100639           2         6.100639           2         5.99           2         5.99           2         5.99           2         6.100           2         6.19           2         6.119           2         6.01           2         5.68           2         5.68           2         5.62           2         5.62           2         5.65   
   
  | 45.36837524<br>45.36837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36838011<br>45.36838011<br>45.36838011<br>45.36838011<br>45.36824144<br>45.368242178<br>45.36824211<br>45.36823211<br>45.36823211<br>45.36823211<br>45.36823211<br>45.36823211<br>45.36823211<br>45.36823211  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122 | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49             | 55.5901919         -122.815           55.5901919         122.815           57.19         122.815           57.19         122.815           57.19         122.815           57.19         122.815           55.22         122.815           57.01         122.815           57.01         122.815           57.01         122.815           57.01         122.815           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.29         122.816           0.50         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.61         122.816           0.61         122.816           0.61         122.816           0.61 <td< td=""><td>111         2932427           112         2932427           112         2932427           112         2932427           113264         3132644           1131264         3132644           1131264         3132644           11313264         3132645           1131264         3132645           1131264         3132645           1131264         3132647           1131264         3132647           1131264         3132647           1131264         3132647           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1169         31332643           1169         313203864           1169         3132644           1169         303841           1169         303841           1169         303841           1169         3044971</td><td>1<br/>0<br/>0<br/>0<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>I
PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SynGR CAR     SynGR CAR     SynGR CAR     I PSNGR CAR</td><td>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE</td><td>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P</td><td>NVTE           NVTE           NVTE</td><td>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STOP<br/>STOP<br/>STOP<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT</td><td>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W</td><td>W W W W W W W W W W W W W W W E E E E E</td><td>0<br/>6<br/>0<br/>0<br/>111<br/>222<br/>0<br/>0<br/>0<br/>6<br/>6<br/>0<br/>0<br/>111<br/>0<br/>0<br/>6<br/>6<br/>0<br/>0<br/>0<br/>111<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td></td><td></td><td></td><td>22</td></td<>   | 111         2932427           112         2932427           112         2932427           112         2932427           113264         3132644           1131264         3132644           1131264         3132644           11313264         3132645           1131264         3132645           1131264         3132645           1131264         3132647           1131264         3132647           1131264         3132647           1131264         3132647           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1131264         31326730           1169         31332643           1169         313203864           1169         3132644           1169         303841           1169         303841           1169         303841           1169         3044971  
   | 1<br>0<br>0<br>0<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SynGR CAR     SynGR CAR     SynGR CAR     I PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | NVTE   | STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT  | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W | W W W W W W W W W W W W W W W E E E E E  
    | 0<br>6<br>0<br>0<br>111<br>222<br>0<br>0<br>0<br>6<br>6<br>0<br>0<br>111<br>0<br>0<br>6<br>6<br>0<br>0<br>0<br>111<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |    |  |  | 22 |
| 7<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>32<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>9<br>33<br>2<br>9<br>33<br>2<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>7<br>7<br>7<br>7 | 22<br>22<br>22 |    | 4-5         2           45         2 <tr td=""></tr>  
   | b.1008639         2           b.1008639         2           c.1008639         2           c.1008639         2           c.99         2           c.90         2           c.91         2           c.01         2           c.619         2           c.62         2           c.62         2           c.62         2           c.62         2           c.62         2           c.62         2           c.63         2           c.64         2           c.65         2           c.65         2           c.558         2   
   
  | 43.56837524<br>45.56837524<br>45.36837524<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833056<br>45.36833051<br>45.36834514<br>45.36824511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.36822511<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.3682551<br>45.36825551<br>45.36825551<br>45.36825551<br>45.3682555555555555555555555555555555555555  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49             | 55.301019         -122.815           55.5901191         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.20         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           60.29         -122.816           0.29         -122.816           0.84         -122.           0.84         -122.           0.59         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816   
  | 111         2932427           111         2932427           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         293248           111         2  
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| 7<br>29<br>29<br>29<br>29<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7  | 22<br>22<br>22 |    | 4-5         2           45         2   
   | 2         5.1308639           2         6.1508639           2         6.509639           2         5.999           2         5.999           2         5.999           2         5.999           2         5.999           2         6.191           2         6.101           2         6.101           2         5.662           2         5.662           2         5.662           2         5.662           2         5.662           2         5.662           2         5.665           2         5.665           2         5.665           2         5.665           2         5.665           2         5.655           2         5.655           2         5.655           2         5.565           2         5.565           2         5.565           2         5.565           2         5.565           2         5.565           2         5.565           2         5.565 <td< td=""><td>43.568/3724<br/>45.368/3724<br/>45.368/3724<br/>45.368/3256<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3051<br/>45.368/24444<br/>45.368/24444<br/>45.368/24444<br/>45.368/24444<br/>45.368/24511<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/2451<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/251<br/>45.368/</td><td>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122</td><td>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49</td><td>55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           0.29         -122.816           0.84         -122.           0.84         -122.           0.84         -122.           0.84         -122.           0.59         -122.816           0.50         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           1.28         -122.817</td><td>11        
2932427           11         2932427           11         2932427           11         2932428           11         2932428           11         2932428           11         2932428           11         2932428           11         215245           11         215245           11         216453           11         216743           11         2326729           2030202772         2030202           2030202172         3030202           2030202172         3030202           2030202172         3030202           2030202172         3030202           2030202172         3030202           2030202172         3044971           30303023044971         30344971           303044971         3084670           3044971         3084670           3044971         3083673           3064008         3044971           3083044971         3083673           3084070         3083673           30830730         3044971           30830730         30844971           30830730720         30836737373     <td>1<br/>0<br/>0<br/>0<br/>0<br/>1<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SPSNGR CAR     SPSNGR CAR     SPSNGR CAR     I PSNGR CAR</td><td>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE</td><td>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P</td><td>NVTE           NVTF           NVTE           NVTE</td><td>STRGHT<br/>STRGHT<br/>STRGHT<br/>STROP<br/>STOP<br/>STOP<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT</td><td>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W</td><td>W W W W W W W W W W W W W W W E E E E E</td><td>0<br/>6<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td></td><td></td><td>U<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>22</td></td></td<>   |
43.568/3724<br>45.368/3724<br>45.368/3724<br>45.368/3256<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3051<br>45.368/24444<br>45.368/24444<br>45.368/24444<br>45.368/24444<br>45.368/24511<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/2451<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/251<br>45.368/ | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122   | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49 | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.22         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           0.29         -122.816           0.84         -122.           0.84         -122.           0.84         -122.           0.84         -122.           0.59         -122.816           0.50         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           1.28         -122.817  
  | 11         2932427           11         2932427           11         2932427           11         2932428           11         2932428           11         2932428           11         2932428           11         2932428           11         215245           11         215245           11         216453           11         216743           11         2326729           2030202772         2030202           2030202172         3030202           2030202172         3030202           2030202172         3030202           2030202172         3030202           2030202172         3030202           2030202172         3044971           30303023044971         30344971           303044971         3084670           3044971         3084670           3044971         3083673           3064008         3044971           3083044971         3083673           3084070         3083673           30830730         3044971           30830730         30844971           30830730720         30836737373 <td>1<br/>0<br/>0<br/>0<br/>0<br/>1<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SPSNGR CAR     SPSNGR CAR     SPSNGR CAR     I PSNGR CAR</td> <td>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE</td> <td>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P</td> <td>NVTE           NVTF           NVTE           NVTE</td> <td>STRGHT<br/>STRGHT<br/>STRGHT<br/>STROP<br/>STOP<br/>STOP<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT</td> <td>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W</td> <td>W W W W W W W W W W W W W W W E E E E E</td> <td>0<br/>6<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td></td> <td></td> <td>U<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>22</td>   | 1<br>0<br>0<br>0<br>0<br>1<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SPSNGR CAR     SPSNGR CAR     SPSNGR CAR     I PSNGR CAR  
       | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | NVTE           NVTF           NVTE  | STRGHT<br>STRGHT<br>STRGHT<br>STROP<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT   | E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>E<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W<br>W | W W W W W W W W W W W W W W W E E E E E   | 0<br>6<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |    |  | U<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 22 |
| 7<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>29<br>29<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   | 22<br>22<br>22 |    | 4-5         2            
   | b.1008639         2           b.1008639         2           c.1008639         2           c.1008639         2           c.99         2           c.90         6.01           2         6.60           2         5.66           2         5.62           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5.65           2         5   
   
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   | 2         5.1308639           2         6.1508639           2         6.509639           2         5.999           2         5.999           2         5.999           2         5.999           2         5.999           2         6.191           2         6.101           2         6.101           2         6.101           2         5.662           2         5.662           2         5.662           2         5.662           2         5.662           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.558           2         5.655           2         5.655           2         5.655           2         5.655           2         5.655           2         5.655           2         5.655           2         5.655 <td< td=""><td>43.568/3724<br/>45.368/3724<br/>45.368/3724<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3051<br/>45.368/21444<br/>45.368/2141<br/>45.368/2141<br/>45.368/2161<br/>45.368/2161<br/>45.368/2161<br/>45.368/2161<br/>45.368/2161<br/>45.368/2161</td><td>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122</td><td>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49</td><td>55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.2         -122.815           57.01         -122.815           57.01       
 -122.815           57.01         -122.815           57.01         -122.815           67.01         -122.816           0.29         -122.816           0.84         -122.           0.84         -122.           0.84         -122.           0.59         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.817           0.62         -122.816           0.61         -122.816           0.61         -122.816</td><td>111         2932427           112         2932427           112         2932428           112         2932428           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312643           113         1312647           113         132673           116         13326729           116         13333           11617         13333           11617         13333           11617         13333</td><td>1<br/>0<br/>0<br/>0<br/>0<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     I PSNGR CAR     SynGR CAR     SynGR CAR     SynGR CAR     I PSNGR CAR</td><td>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE</td><td>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P</td><td>'RVTE           'RVTE           'RVTE</td><td>STRGHT<br/>STRGHT<br/>STRGHT<br/>STROP<br/>STOP<br/>STOP<br/>STOP<br/>STROH<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT</td><td>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W</td><td>W W W W W W W W W W W W W W W E E E E E</td><td>0<br/>6<br/>6<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>111<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td></td><td></td><td></td><td>22</td></td<>   |
43.568/3724<br>45.368/3724<br>45.368/3724<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3051<br>45.368/21444<br>45.368/2141<br>45.368/2141<br>45.368/2161<br>45.368/2161<br>45.368/2161<br>45.368/2161<br>45.368/2161<br>45.368/2161  | -122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122<br>-122 | 48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>48<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49<br>49       | 55.5901919         -122.815           55.5901919         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           57.19         -122.815           55.2         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           57.01         -122.815           67.01         -122.816           0.29         -122.816           0.84         -122.           0.84         -122.           0.84         -122.           0.59         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.57         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.816           0.61         -122.817           0.62         -122.816           0.61         -122.816           0.61         -122.816  
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| 7<br>29<br>29<br>29<br>7<br>7<br>7<br>29<br>29<br>29<br>32<br>32<br>32<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   | 22<br>22<br>22 |    | 45         2             
   | b.1008639         2           b.1008639         2           c.1008639         2           c.90         2           c.99         2           c.90         2           c.91         2           c.101         2           c.612         2           c.622         2           c.623         2           c.624         2           c.625         2           c.625         2           c.635         2           c.645         2           c.655         2           c.655 <td>43.568/3724<br/>45.368/3724<br/>45.368/3724<br/>45.368/3256<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3051<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011<br/>45.368/2011</td> <td>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122<br/>-122</td> <td>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>48<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49<br/>49</td> <td>55.501919 - 122.815<br/>55.501919 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.2 - 122.815<br/>55.22 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>0.29 - 122.816<br/>0.29 - 122.816<br/>0.29 - 122.816<br/>0.24 - 122.<br/>0.84 - 122.<br/>0.84 - 122.<br/>0.84 - 122.<br/>0.59 - 122.816<br/>0.57 - 122.816<br/>0.57 - 122.816<br/>0.61 -</td> <td>111         2932427           111         2932427           111         2932428          
111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932427           111         2932427           111         2932427           2932427         2932022           29304600         293447           29304600         29447           29304600         29447           29304600         29447           29304600         29447           293046000         294497           293046000         294497           293046000         294497           293046000         294497           293046000         294497           293046000         294497      293046000         29449</td> <td>1<br/>0<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>I PSNGR CAR     PSNGR CAR</td> <td>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE</td> <td>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P</td> <td>'RVTE           'RVTE           'RVTE</td> <td>STRGHT<br/>STRGHT<br/>STRGHT<br/>STOP<br/>STOP<br/>STOP<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT</td> <td>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W</td> <td>W W W W W W W W W W W W W W W E E E E E</td> <td>0<br/>6<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td></td> <td></td> <td></td> <td>22</td>  | 43.568/3724<br>45.368/3724<br>45.368/3724<br>45.368/3256<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3051<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011<br>45.368/2011   |
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   | 2         5.1308639           2         6.1508639           2         6.509639           2         5.999           2         5.999           2         5.999           2         5.999           2         5.999           2         6.191           2         6.101           2         6.101           2         6.101           2         5.662           2         5.662           2         5.662           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.652           2         5.655           2         5.655           2         5.655           2         5.655           2         5.655           2         5.765           2         5.655           2         5.655           2         5.765           2         5.655 <td<
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- 122.815<br/>55.5901919 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.2 - 122.815<br/>55.22 - 122.815<br/>55.21 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>0.29 - 122.816<br/>0.29 - 122.816<br/>0.84 - 122.<br/>0.34 - 122.<br/>0.34 - 122.816<br/>0.57 - 122.816<br/>0.57 - 122.816<br/>0.57 - 122.816<br/>0.57 - 122.816<br/>0.51 - 122.816<br/>0.61 - 122.816<br/>0.61 - 122.816<br/>0.61 - 122.817<br/>0.6 - 122.817<br/>0.6 - 122.817<br/>0.6 - 122.816<br/>0.6 - 122.816<br/>0.7 - 122.815<br/>0.7 - 122.8</td><td>111         2932427           111         2932427           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         2932428           111         201243           111         201243           111         201243           111         201243           111         201243           111         201243         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- 122.815<br/>55.501919 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>57.19 - 122.815<br/>55.22 - 122.815<br/>55.22 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>57.01 - 122.815<br/>0.29 - 122.816<br/>0.29 - 122.816<br/>0.84 - 122.<br/>0.59 - 122.816<br/>0.59 - 122.816<br/>0.59 - 122.816<br/>0.51 - 122.816<br/>0.51 - 122.816<br/>0.61 - 122.816<br/>0.6 - 122.816<br/>0.6 - 122.816<br/>0.26 - 122.816</td><td>11         2932427           11         2932427           11         2932427           11         2932428           11         2932428           11         2932428           11         2932428           11         2932428           11         264328           11         264328           11         264328           11         264328           11         264328           11         264328           11         264328           11         264328           11         264328           11         264471           2032023         2032023           2032023   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    122.815           57.01         122.815           57.01         122.815           60.29         122.816           0.29         122.816           0.24         122.816           0.25         122.816           0.26         122.816           0.27         122.816           0.28         122.816           0.29         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.61         122.816           0.61         122.816           0.62         122.816           0.63         122.816           0.64         122.816           0.65</td><td>11         293/242           11         293/242           11         293/242           11         293/242           11         293/242           11         293/242           11         293/242           11         293/242           11         293/242           11         214/343           203         214/343           203         214/343           203         202/247     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  | 43.5887524<br>45.5887524<br>45.3883726<br>45.3883205<br>45.3883205<br>45.38833056<br>45.38833056<br>45.38833056<br>45.3883056<br>45.3883051<br>45.3883611<br>45.3883611<br>45.3883611<br>45.3883611<br>45.38824444<br>45.38822414<br>45.38822414<br>45.38822411<br>45.38822611<br>45.38822611<br>45.38822611<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822261<br>45.38822222<br>45.38822261  | 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          0.61         122.816           0.62         122.816           0.64         122.816           0.65 <t< td=""><td>11         2932427           11         2932427           11         2932427           11         2932428           11         132643           861         3132643           861         3132645           861         3132645           861         3132645           803         3143437           803         314437           803         3426473           9032022         3120673           9033841         3032022           11900         3044972           8030847         303841           9033841         9044972           8030722         319000           803333         3146178           803         398291           803         398291           803         398291           803         398291           803         398291           803         398291           803         398291           803         398291           803         398291           803         398291           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<td>43.568/3724<br/>45.368/3724<br/>45.368/3724<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3056<br/>45.368/3051<br/>45.368/3051<br/>45.368/3051<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/205778<br/>45.368/2057784<br/>45.368/205</td> 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          303         31/443           303         31/447           303/202         31/203           1169         303/441           303/202         3048/1           3036         304497           3030         304497           202         304608           304407         303/222           303022         304/92           303222         319/203           31382         3382/91           30382         3382/91           30382         3382/91           30382         3382/91           3041         39/41/20           3041         39/41/20           3041         39/41/20           3041         39/41/20      <tr< 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   | 43.568/3724<br>45.368/3724<br>45.368/3724<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3056<br>45.368/3051<br>45.368/3051<br>45.368/3051<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/205778<br>45.368/2057784<br>45.368/205   |
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   | 11         293/242           12         293/242           13         293/242           13         13/264           861         31/3264           861         31/3264           861         31/3264           861         31/3264           861         31/3264           861         31/3264           861         31/3264           803         31/443           303         31/443           303         31/447           303/202         31/203           1169         303/441           303/202         3048/1           3036         304497           3030         304497           202         304608           304407         303/222           303022         304/92           303222         319/203           31382         3382/91           30382         3382/91           30382         3382/91           30382         3382/91           3041         39/41/20           3041         39/41/20           3041         39/41/20           3041         39/41/20 <tr< td=""><td>1<br/>0<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>1<br/>1<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>I PSNGR CAR     PSNGR CAR</td><td>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE<br/>NONE</td><td>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P<br/>0 P</td><td>NVTE           NRVTE           NA           J/A           J/A</td><td>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STOP<br/>STOP<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STOP<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STRGHT<br/>STOP</td><td>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>E<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W<br/>W</td><td>W W W W W W W W W W W W W W E E E E E E</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td><td></td><td></td><td>22</td></tr<> | 1<br>0<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>1<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | I PSNGR CAR   | NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE<br>NONE | 0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P<br>0 P   | NVTE           NRVTE           NA           J/A           J/A   | STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STOP<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP<br>STRGHT<br>STRGHT<br>STOP<br>STRGHT<br>STRGHT<br>STRGHT<br>STRGHT<br>STOP  
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        -122.815           55.901919         122.815           57.19         122.815           57.19         122.815           57.19         122.815           57.19         122.815           57.19         122.815           55.22         122.815           57.01         122.815           57.01         122.815           57.01         122.815           67.02         122.816           0.29         122.816           0.20         122.816           0.21         122.816           0.22         122.816           0.23         122.816           0.24         122.816           0.25         122.816           0.26         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.61         122.816           0.62         122.816           0.63         122.816           0.64</td><td>11         293/242           12         293/242           13         293/242           141         293/242           141         293/242           13         254/24           13         132/64           13         132/64           13         132/64           133         134/34           338         314/34/3           3361         326/73           337/2         303/202           119         303/202           119         303/202           119         303/202           119         303/202           119         303/202           119         313/44           304         304/49           205         3064/09           205         3064/09           205         3064/09           205         3064/09           20333         31461/7           303829         338291           303829         338291           303829         338291           303829         338291           304         30593           1094         3194120           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      122.815           67.02         122.816           0.29         122.816           0.20         122.816           0.21         122.816           0.22         122.816           0.23         122.816           0.24         122.816           0.25         122.816           0.26         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.57         122.816           0.61         122.816           0.62         122.816           0.63         122.816           0.64  | 11         293/242           12         293/242           13         293/242           141         293/242           141         293/242           13         254/24           13         132/64           13         132/64           13        
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         0.63         122.816           0.26         122.816           0.26         122.816           0.26 <td< td=""><td>11         293/42           12         293/42           12         293/42           12         293/42           13         132/64           13         132/64           13         132/64           13         132/64           13         132/64           133         134/36           132/67         333           133         144/37           312/67         303/202           119         303/202           119         303/202           119         303/202           119         303/41           306         304/472           307         303/44           308         304/497           308         304/497           303         304/497           303         304/497           303         304/497           303         304/497           303         304/497           303         304/497           303         304/497           303         304/497           303         304/497          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 /	_		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3266038	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	E	0			 0	
7			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3266039	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	E	6			0	
7			45 22	5.83 45.36828611	-122 48	8 58.75	-122.8163194	3266039	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	E	6			 0	
29			45 22	2 5.83 45.36828611	-122 48	58.75	-122.8163194	3303907	1 1	PSNGR CAR	NONE	9 N/A	STRGHT	W	E	0			0	
29			45 22	5.83 45.36828611	-122 48	8 58.75	-122.8163194	3303908	0 2	PSNGR CAR	NONE	9 N/A	STOP	W	E	11			0	
27	7		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3306998	1 1	PSNGR CAR	NONE	9 N/A	STRGHT	W	E	0			0	
27	7		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3306999	0 2	PSNGR CAR	NONE	9 N/A	STOP	W	E	11			0	
2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3011429	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	w	E	0			0	
2		_	45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3011429	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	w	E	0			0	
2			45 22	5 83 45 36828611	-122 45	58.75	-122 8163194	3011429	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	F	0			0	
2		_	45 22	5.83 45.36828611	-122 45	58.75	-122 8163194	3011/29	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	F	0			 	
2	_		45 22	5.03 45.36020011	-122 40	59.75	122.0103194	2011420	0 2	DSNGR CAR	NONE		TURNU	c	c	0	12			
 2	_	_	45 22	5.83 45.30828011	-122 40	5 50.75	122.8103194	2011430	0 2	PSNOR CAR	NONE		CTOD.	c	J	11	13			
 2	_		45 22	5.83 45.30828011	-122 48	58.75	-122.8163194	3011431	0 3	PSNGR CAR	NONE		STOP	3	N C	11			 	
2	_		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3042186	1 1	PSNGR CAR	NONE	UPRVIE	STRGHT	W	E .	0			0	
 2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3042186	1 1	PSNGR CAR	NONE	UPRVIE	SIRGHI	VV	t	0			 	
2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3042187	0 2	PSNGR CAR	NONE	OPRVIE	TURN-L	E	5	0			0	
 2	_		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3042187	0 2	PSNGR CAR	NONE	0 PRVTE	TURN-L	E	5	0			 	
 2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3071874	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	E	0			0	
2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3071875	0 2	PSNGR CAR	NONE	0 PRVTE	TURN-L	E	S	0			0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3150655	1 1	PSNGR CAR	NONE	0 PRVTE	TURN-L	E	S	0	87		0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3150656	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	w	E	0	13	87	0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3150657	0 3	PSNGR CAR	NONE	0 PRVTE	STOP	5	N	22	87		0	
2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3171765	1 1	PSNGR CAR	NONE	0 PRVTE	TURN-L	E	S	0			0	
2			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3171766	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	w	E	0			0	
2			45 27	5.83 45.36828611	-122 48	58,75	-122.8163194	3175766	1 1	PSNGR CAR	NONE	0 PRVTE	STRGHT	w	E	0			0	
2			45 27	5.83 45.36828611	-122 45	58.75	-122.8163194	3175767	0 7	PSNGR CAR	NONE	0 PRVTE	TURN-L	F	S	0			0	
2	_	_	45 22	5.83 45.36828611	-122 45	58.75	-122 8163194	3206523	1 1	PSNGR CAR	NONE	9 N/A	TURNAL	F	s	0				
2			45 22	5 83 45 36930611	-122 40	59.75	-122 8163104	3206524	0 7	SEMI TOW	NONE	9 N/A	STRCHT	W	F	0				
 2		-	45 22	5.03 43.30020011	122 40	50.75	122.0105194	2270212	1 1	DENICE CAP	NONE	1 DD//TE	STRGUT	W	- C	0				
2			45 22	5.05 45.50628011	122 48	50.75	122.0103194	32/0212	1 1	DENCE CAR	NONE		STROFT	VV	с. Г					
 2			45 22	5.83 45.30828611	-122 48	58.75	-122.8163194	52/0212	1 1	PSINGR CAR	NONE	1 PKVIE	TURNU	5	C	0				
 2	-		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	32/0213	0 2	PSNGK CAR	NUNE	UPRVIE	I UKN-L	E	3	0			 	
4		_	45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3270525	1 1	PSNGR CAR	NONE	OPRVTE	STRGHT	w	Ł	0	87		0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3270526	0 2	PSNGR CAR	NONE	0 PRVTE	TURN-L	E	S	0	87		 0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3273470	1 1	PSNGR CAR	NONE	0 PRVTE	TURN-L	E	S	0			0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3273471	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	E	0			0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3273471	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	w	E	0			0	
4			45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3273471	0 2	PSNGR CAR	NONE	0 PRVTE	STRGHT	W	E	0			0	
2	1		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3324065	1 1	PSNGR CAR	NONE	9 N/A	STRGHT	W	E	0			0	
2	1		45 22	5.83 45.36828611	-122 48	58.75	-122.8163194	3324066	0 2	PSNGR CAR	NONE	9 N/A	TURN-L	E	s	0			0	
2			45 27	5 83 45 36828611	-122 45	59.75	-122 816319/	310/050	1 1	DSNGP CAP	NONE	9 N/A	TURNER	c	F	, o			0	

2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3194951	C	) 2	PSNGR CAR	NONE	9 N/A	STRGHT	W	E	0	1		0	
2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3303294	1	. 1	SEMI TOW	NONE	9 N/A	STRGHT	W	E	0			0	
2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3303295	C	) 2	PSNGR CAR	NONE	9 N/A	TURN-R	S	E	0			0	(
8	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3304246	1	. 1	SEMI TOW	NONE	9 N/A	TURN-R	S	E	0			0	
8	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3304247	C	) 2	PSNGR CAR	NONE	9 N/A	TURN-R	s	E	0			0	1
2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3320947	1	. 1	PSNGR CAR	NONE	9 N/A	TURN-R	S	E	0			0	
2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3320948	C	) 2	SEMI TOW	NONE	9 N/A	STRGHT	W	E	0			0	
2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3320965	1	. 1	PSNGR CAR	NONE	9 N/A	TURN-R	S	E	0			0	(
2	45	2	2	5.83	45.36828611	-122	48	58.75	-122.8163194	3320966	C	) 2	SEMI TOW	NONE	9 N/A	STRGHT	w	E	0			0	

			PARTIC_TYP	PARTIC_MVM	PARTIC_CMPSS_D	PARTIC_CMPSS_	INJ_SVRTY_		DRVR_LIC_S	T DRVR_RES_	NON_MOTRST							PARTIC_C	PARTIC_C	PARTIC_C		
PARTIC_I	STRIKG_P PA	ARTIC_VH PARTIC_	T_SHORT_DE	NT_SHORT_D	IR_FROM_SHORT	DIR_TO_SHORT_	SHORT_DES	AGE_VA	AT_SHORT_	D SHORT_DES	PARTIC_A _LOC_SHORT_	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	AUSE_1_C	AUSE_2_C	AUSE_3_C	TOTAL_C	TOTAL_R
D	ARTIC_FLG_CL	_SEQ_NO_YP_CD	sc	ESC	_DESC	DESC	с	L SEX_CD	ESC	с	CTN_CD DESC	RR_1_CD	RR_2_CD	RR_3_CD	VNT_1_CD	VNT_2_CD	VNT_3_CD	D	D	D	RASHES	ows
3647325	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	0	0					0			320	788
364/326	0	1	1 DRVR				NONE	0	9 UNK	UNK	0							0			320	788
3775181	0	1	1 DRVR				NONE	0	9 UNK	UNK	0		)			_		0			320	788
3407052	0	1	1 DRVR				NONE	42	2 OR-Y	OR<25	0	52	14	26				32			320	788
3407053	0	1	1 DRVR				NONE	56	2 OR-Y	OR<25	0	0	)					0			320	788
3407054	0	1	1 DRVR				NONE	53	1 OR-Y	OR<25	0	0	)					0			320	788
3464551	0	1	1 DRVR				NONE	21	2 OR-Y	OR<25	0	42	2					7			320	788
3464552	0	1	1 DRVR				NONE	23	1 OR-Y	OR<25	0							0			320	788
3404553	0	1					INJE	75	1 OR-Y	OR<25	0	20						1			320	788
3605377	0	1	1 DRVR				INJC	48	1 OR-Y	OR<25	0	(						0			320	788
3605378	0	1	1 DRVR				NONE	22	2 OR-Y	OR<25	0	0						0			320	788
3667908	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	(	)					0			320	788
3667909	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	(						0			320	788
3/1/392	0	1	1 DRVR				NONE	21	2 OR-Y	OR<25	0	4:	5					/			320	/88
3717394	0	1	1 DRVR				NONE	32	1 OR-Y	OR<25	0		0					0			320	788
3811189	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	26	5					29			320	788
3811190	0	1	1 DRVR				INJC	70	2 OR-Y	OR>25	0	(	)					0			320	788
3912517	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	0	)					0			320	788
3912518	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	0						0			320	788
3521189	0	1	1 DRVR				NONE	53		OR<25	0	26						29			320	/88
3532612	0	1	1 DRVR				NONE	22	1 OR-Y	OR<25	0	43						7			320	788
3532613	0	1	1 DRVR				NONE	23	2 OTH-Y	OR<25	0	(						0			320	788
3371995	0	1	1 DRVR				NONE	36	1 SUSP	OR<25	0	52	43	26				32	7		320	788
3371996	0	1	1 DRVR				NONE	22	2 OR-Y	OR<25	0	0	)					0			320	788
3582186	0	1	1 DRVR				NONE	41	2 OR-Y	OR<25	0	43	8					7			320	788
3582187	0	1					NONE	59	2 OR-Y	OR<25	0	13						7			320	788
3631659	0	1	1 DRVR				INJC	40	2 OR-Y	OR<25	0							0			320	788
3631660	0	1	1 DRVR				NONE	50	1 OR-Y	OR<25	0	0						0			320	788
3693647	0	1	1 DRVR				NONE	24	1 OR-Y	OR<25	0	16	5 26	52	93			27	29	32	320	788
3693648	0	1	1 DRVR				INJC	21	2 OR-Y	OR<25	0	(						0			320	788
3693649	0	2	2 PSNG				NO<5	1	1 2 OR V	08-25	0							0			320	788
3693651	0	1	1 DRVR				NONE	47	1 OR-Y	OR<25	0		,					0			320	788
3723562	0	1	1 DRVR				NONE	23	1 OR-Y	OR<25	0	43	1					7			320	788
3723563	0	1	1 DRVR				NONE	31	1 OR-Y	OR<25	0	(	)					0			320	788
3723564	0	2	2 PSNG				INJB	35	2		0	(	)					0			320	788
3769650	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	(	)					0			320	788
3769651	0	1	1 DRVR				NONE	0			0							0			320	788
3772710	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	0									320	788
3435670	0	1	1 DRVR				NONE	46	1 OR-Y	OR<25	0							0			320	788
3435671	0	2	2 PSNG				INJC	42	2		0	(						0			320	788
3435672	0	3	2 PSNG				INJC	13	2		0	(						0			320	788
3435673	0	4	2 PSNG				INJC	9	1 1 OB V	08.07	0	0						0			320	788
3435674	0	1					NONE	70	2 OB-Y	OR<25	0		28					2			320	/88
3472237	0	1	1 DRVR				INJB	70	2 OR-Y	OR<25	0	0						0			320	788
3472238	0	2	2 PSNG				INJB	63	1		0	0						0			320	788
3472239	0	1	1 DRVR				INJC	31	1 OR-Y	OR<25	0	4	28					2			320	788
3472240	0	2	2 PSNG				INJC	30	2		0	0						0			320	788
3509259	0	1	1 DRVR				INJC	26	1 OR-Y	OR<25	0							0			320	788
3509260	0	1					INUR	45	1 OR-Y	OR<25	0		28					2			320	788
3595510	0	1	1 DRVR				INJC	39	2 OR-Y	OR<25	0		20					- 0			320	788
3595512	0	1	1 DRVR				NONE	42	1 OTH-Y	N-RES	0	0						0			320	788
3621932	0	1	1 DRVR				NONE	60	2 OR-Y	OR<25	0	4	28					2			320	788
3621933	0	1	1 DRVR				INJB	47	1 OR-Y	OR<25	0	(						0			320	788
3626906	0	1	1 DRVR				INJC	57	1 OR-Y	OR<25	0	0						0			320	788
36593907	0	1					NONE	38	1 UK-Y	UK<25	0		28					2			320	788
3659391	0	1	1 DRVR				NONE	0	9 UNK	UNK	0	0						0			320	788
3728748	0	1	1 DRVR				NONE	41	1 OR-Y	OR>25	0							Ö			320	788

3728749 0 2	2 PSNG	INJC	38	1		0	0		0			320	788
3728750 0 1	1 DRVR	INJB	55	1 OR-Y	OR<25	0	28		2			320	788
3729143 0 1	1 DRVR	INJC	40	2 OR-Y	OR<25	0	0		0			320	788
3729144 0 1	1 DRVR	NONE	47	1 OR-Y	OR<25	0	20		4			320	788
3732848 0 1	1 DRVR	INJB	24	1 OTH-Y	OR<25	0	20		4			320	788
3732849 0 1	1 DRVR	INJB	33	2 OR-Y	OR<25	0	0		0			320	788
3732850 0 2	2 PSNG	INJB	12	2		0	0		0			320	788
3732851 0 3	2 PSNG	INJB	11	2		0	0		0			320	788
3789349 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3789350 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3648129 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3648130 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3769039 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3769040 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3769980 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3769981 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3786303 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3786304 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3786320 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	788
3/86321 0 1	1 DRVR	NONE	0	9 UNK	UNK	0			0			320	788
3603548 0 1		INJB	18	1 OR-Y	UK<25	25	 26 80 52		29	16	32	320	788
3603549 0 1	8 PKKU	NONE	38	1		0			0			320	/88
2006856 0 1		NONE	0	9 UNK		0			0			320	/88
3490335 0 1		INUNE	0	9 UNK	OR-25	0	42		0			320	/88
2490226		INJC	62	2 08-1	OR<25	0	 43		+			320	785
2480227 0 1		INIC	45	1 OR V	OR<25	0	42		7			320	700
3665463 0 1		NONE	49			0	43		/			320	788
3665464 0 1	1 DRVR	NONE	0	911NK	LINK	0			0			320	788
3722374 0 1	1 DRVR	INIC	32	1 OB-Y	OB<25	0	26		29			320	788
3722375 0 1	1 DRVR	NONE	73	1 OR-Y	OB<25	0	0	_	0			320	788
3722376 0 2	2 PSNG	INJC	71	2		0	0		0			320	788
3722377 0 1	1 DRVR	INJC	37	1 OR-Y	OR<25	0	0		0			320	788
3722378 0 1	1 DRVR	INJC	51	2 OR-Y	OR<25	0	0		0			320	788
3346956 0 1	1 DRVR	NONE	28	2 OR-Y	OR>25	0	42 43		7			320	788
3346957 0 1	1 DRVR	INJC	42	1 OR-Y	OR<25	0	0		0			320	788
3572888 0 1	1 DRVR	INJC	25	2 OR-Y	OR<25	0	26		29			320	788
3572889 0 1	1 DRVR	INJC	25	1 OR-Y	OR<25	0	0		0			320	788
3572890 0 1	1 DRVR	NONE	33	1 OR-Y	OR<25	0	0		0			320	788
3572891 0 2	2 PSNG	NO<5	4	1		0	0		0			320	788
3586454 0 1	1 DRVR	INJB	72	1 OR-Y	OR<25	0	 43	_	7			320	788
3586455 0 1	1 DRVR	NONE	27	1 OR-Y	OR<25	0	0		0			320	788
3791958 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	0		0			320	/88
3/91959 0 1	1 DRVR	INUNE	10	9 UNK	UNK OD (25	0	52		0			320	788
3459779 0 1	1 DRVR	INJC	10	1 OR-Y	OR<25	0	 52	_	32			320	/88
3459780 0 1		NONE	74	2 UR-1	OR<25	0	42					320	700
3461943 0 1		INUC	21	2 08 4	08<25	0	42	_	,			220	700
3475662 0 1	1 DRVR	NONE	10	1 OR-Y	OR<25	0	43	-	7			320	700
3475663 0 1	1 DRVR	INJC	45	2 OR-Y	OR<25	0	0		0			320	788
3500009 0 1	1 DRVR	NONE	47	2 OR-Y	OR<25	0	26		29			320	788
3500010 0 1	1 DRVR	INJC	25	2 OR-Y	OR<25	0	0		0			320	788
3522835 0 1	1 DRVR	NONE	0	2 UNK	UNK	0	45		13			320	788
3522836 0 1	1 DRVR	NONE	38	1 OR-Y	OR<25	0	0		0			320	788
3558045 0 1	1 DRVR	NONE	26	1 OR-Y	OR<25	0	43 26		7			320	788
3558046 0 1	1 DRVR	NONE	60	1 OR-Y	OR<25	22	0		0			320	788
3589918 0 1	1 DRVR	NONE	25	2 OR-Y	OR>25	0	42		29			320	788
3589919 0 1	1 DRVR	INJC	21	1 OR-Y	OR<25	0	0		0			320	788
3876715 0 1	1 DRVR	NONE	22	1 SUSP	OR<25	0	26		29			320	788
3876716 0 1	1 DRVR	INJC	36	1 OTH-Y	N-RES	0	0		0			320	788
3876717 0 2	2 PSNG	INJC	37	2		0	 0		0			320	788
3876718 0 3	2 PSNG	INJC	4	1		0	0		0			320	788
3647325 0 1	1 DRVR	NONE	0	9 UNK	UNK	0	 0		0			51	120
364/326 0 1	1 DKVK	NONE	0	9 UNK	UNK	0			0			51	120
3775101 0 1		NONE	0	9 UNK		0			0			51	120
3407052 0 1		NONE	42	2 OR-V	OR<25	0	52 14 26		0			51	120
3407053 0 1	1 DRVR	NONE	42 56	2 OR-Y	OR<25	0	0		52			51	120
3407054 0 1	1 DBVB	NONE	53	1 OR-Y	OR<25	0	0		0			51	120
3464551 0 1	1 DRVR	NONE	21	2 OR-Y	OR<25	0	42		7			51	120

3464552 0 1	1 DRVR	NONE	23 1 OR-Y	OR<25 0	0	0		0	51 120
3464553 0 1	1 DRVR	INJB	58 2 OR-Y	OR<25 0	D	0		0	51 120
3605376 0 1	1 DRVR	INJC	75 1 OR-Y	OR<25 (	0	20		4	51 120
3605377 0 1	1 DRVR	INJC	48 1 OR-Y	OR<25 (	0	0		0	51 120
3605378 0 1	1 DRVR	NONE	22 2 OR-Y	OR<25 (	0	0		0	51 120
3667908 0 1	1 DRVR	NONE	0 9 UNK	UNK (	0	0		0	51 120
3667909 0 1	1 DRVR	NONE	0 9 UNK	UNK (	2	0		0	51 120
3717392 0 1	1 DRVR	NONE	21 2 OR-Y	OR<25 0	0	43		7	51 120
3717393 0 1	1 DRVR	INJC	21 1 OR-Y	OR<25 (	2	0		0	51 120
3717394 0 1	1 DRVR	NONE	32 1 OR-Y	OR<25 (		0		0	51 120
3811189 0 1	1 DRVR	NONE	0 9 UNK	UNK (	2	26		29	51 120
3811190 0 1	1 DRVR	INJC	70 2 OR-Y	OR>25 (	0	0		0	51 120
3912517 0 1	1 DRVR	NONE	0 9 UNK	UNK C	0	0		0	51 120
3912518 0 1	1 DRVR	NONE	0 9 UNK	UNK C		0		0	51 120
3521189 0 1	1 DRVR	NONE	33 1 SUSP	OR<25 0		26		29	51 120
3521190 0 1	1 DRVR	NONE	57 2 OR-Y	OR<25 0		0		0	51 120
3532612 0 1		NONE	22 1 OR-Y	OR<25 0		43		- /	51 120
3532613 0 1		NONE	23 2 01H-Y	OR<25 0				0	51 120
3371995 0 1		NONE	36 1 SUSP	UK<25 U		52 43 26	-	32 /	51 120
3571990 0 1		NONE	22 2 UK-Y	OR<25 (		42		0	51 120
2592107 0 1		INUC	41 2 UK-T	OR-25 0		43			51 120
3631658 0 1	1 DBVR	NONE	40 1 OP V	08<25		43		7	51 120
3631659 0 1	1 DRVR	INIC	47 2 OB-Y	OBc25 (				0	51 120
3631660 0 1	1 DRVR	NONE	50 1 OR-V	08<25				0	51 120
3693647 0 1	1 DRVB	NONE	24 1 OR-Y	08<25 (		16 26 52	93	27 29	32 51 120
3693648 0 1	1 DRVB	INIC	21 2 OB-Y	0B<25		0 20 32		0	51 120
3693649 0 2	2 PSNG	NO<5	1 1					0	51 120
3693650 0 1	1 DRVB	INIC	30 2 OR-Y	OB<25		0		0	51 120
3693651 0 1	1 DRVR	NONE	47 1 OB-Y	OR<25 (	2	0		0	51 120
3723562 0 1	1 DRVR	NONE	23 1 OB-Y	OR<25 (	0	43		7	51 120
3723563 0 1	1 DRVR	NONE	31 1 OR-Y	OR<25 (	0	0		0	51 120
3723564 0 2	2 PSNG	INJB	35 2			0	-	0	51 120
3769650 0 1	1 DRVR	NONE	0 9 UNK	UNK (	0	0		0	51 120
3769651 0 1	1 DRVR	NONE	0 9 UNK	UNK (		0		0	51 120
3772709 0 1	1 DRVR	NONE	0 9 UNK	UNK (	D	0		0	51 120
3772710 0 1	1 DRVR	NONE	0 9 UNK	UNK (	D D	0		0	51 120
3435670 0 1	1 DRVR	NONE	46 1 OR-Y	OR<25 (	D	0		0	51 120
3435671 0 2	2 PSNG	INJC	42 2	(	D	0		0	51 120
3435672 0 3	2 PSNG	INJC	13 2		D	0		0	51 120
3435673 0 4	2 PSNG	INJC	9 1	(	D	0		0	51 120
3435674 0 1	1 DRVR	INJB	70 1 OR-Y	OR<25 (	D	4 28		2	51 120
3435675 0 1	1 DRVR	NONE	52 2 OR-Y	OR<25 0	2	0		0	51 120
3472237 0 1	1 DRVR	INJB	70 2 OR-Y	OR<25 (		0		0	51 120
3472238 0 2	2 PSNG	INJB	63 1	(	0	0		0	51 120
3472239 0 1	1 DRVR	INJC	31 1 OR-Y	OR<25 0	0	4 28		2	51 120
3472240 0 2	2 PSNG	INJC	30 2	(		0		0	51 120
3200320 0 1	1 DB//D	NONE	20 1 UK-Y	UK<25 (	4	1 20		0	51 120
3505510 0 1	1 DB/0	INUNE	45 1 UK-Y	UK<25 (	4	4 28		2	51 120
3595510 0 1		INJB	46 1 UK-Y	08<25		4 20		4	51 120
3595512 0 1		NONE	2 UK-1 1 OTH V	NLRES /				0	51 120
3621932 0 1	1 DRVR	NONE	60 2 OP V	OR-25		4 28		2	51 120
2621922 0 1			47 1 OR V	0R<25 (		4 20		2	51 120
3626906 0 1		INIC	57 1 OR-Y	OR-25				0	51 120
3626907 0 1	1 DRVR	NONE	38 1 OR-V	OB<25		4 28		2	51 120
3659390 0 1	1 DRVR	NONE	0 9 1 NK	UNK		0			51 120
3659391 0 1	1 DRVB	NONE	0 9 UNK	UNK				0	51 120
3728748 0 1	1 DRVR	NONE	41 1 OR-Y	OR>25		0		0	51 120
3728749 0 2	2 PSNG	INJC	38 1			0		0	51 120
3728750 0 1	1 DRVR	INJB	55 1 OR-Y	OR<25		28		2	51 120
3729143 0 1	1 DRVR	INJC	40 2 OR-Y	OR<25 (		0		0	51 120
3729144 0 1	1 DRVR	NONE	47 1 OR-Y	OR<25 (		20		4	51 120
3732848 0 1	1 DRVR	INJB	24 1 OTH-Y	OR<25 (		20		4	51 120
3732849 0 1	1 DRVR	INJB	33 2 OR-Y	OR<25 (		0		0	51 120
3732850 0 2	2 PSNG	INJB	12 2			0		0	51 120
3732851 0 3	2 PSNG	INJB	11 2			0		0	51 120
3789349 0 1	1 DRVR	NONE	0 9 UNK	UNK		0		0	51 120
3789350 0 1	1 DRVR	NONE	0 9 UNK	UNK (		0		0	51 120
2649120 0 1	1 DRVR	NONE	0 9 UNK	UNK (		0		0	51 120

3648130	(	) 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	0	0			0		51	120
3769039	(	0 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	C	0			0		51	120
3769040	(	) 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	C	0			0		51	120
3769980	(	1 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	0	0			0		51	120
3769981	(	) 1	1 DRV	R		NONE	0	)	) UNK	UNK	0	0			0		51	120
3786303	(	0 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	C	0			0		51	120
3786304	(	) 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	0	0			0		51	120
3786320	(	0 1	1 DRV	R		NONE	0	) 9	UNK	UNK	C	0			0		51	120
3786321	(	) 1	1 DRV	R		NONE	0	) 9	) UNK	UNK	C	0			0		51	120

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	INVSTG_AGY		LANE RDWY					CRASH_HR_				HWY_COMPN												
CRASH_I	_SHORT_DES	D_INVLV_FL	ALCHL_IN DRUG_IN	MJ_INVL	SCHL_ZO WRK_2	O DPRT CRASH	UNLOCT		CRASH_W SH	IORT_DES		CITY_SECT	URB_AREA_SHOP	۲		RDWY_N		HWY_CO	T_SHORT_DE	MLGE_TY	RD_CON			
D INT_ID	SER_NO C	G	VLV_FLG VLV_FLG	V_FLG	NE_IND NE_IN	D FLG	FLG	CRASH_DT	K_DAY_CD C	(	CNTY_NM	_NM	T_NM	HWY_NO	D HWY_MED_NM	0	FC_CD	MPNT_CE	D SC	P_CD	_NO	LRS VAL	MP_NO	ST_NO
1652449 2	7158 COUNTY	0	0 0	0	0	0 N	FALSE	11/25/2015	4 3P	۲ v	Washington	Sherwood	PORTLAND UA				16	5						1803
1652449 2	7158 COUNTY	0	0 0	)	0	0 N	FALSE	11/25/2015	4 3F	, I	Washington	Sherwood	PORTLAND UA				16	ô						1803
1764832 2	7780 CITY	0	0 0	)	0	0 N	FALSE	12/6/2017	4 1P	۰ ۱	Washington	Sherwood	PORTLAND UA				16	5						1803
1764832 2	7780 CITY	0	0 0	)	0	0 N	FALSE	12/6/2017	4 1F	۰ (	Washington	Sherwood	PORTLAND UA				16	5						1803
1823390 2	5509 NONE	0	0 0	)	0	0 N	FALSE	10/16/2018	3 4 P	> \	Washington	Sherwood	PORTLAND UA				16	5						1803
1823390 2	5509 NONE	0	0 0	)	0	0 N	FALSE	10/16/2018	3 4 P	۰ ۱	Washington	Sherwood	PORTLAND UA				16	5						1803
1718125 2	1128 CITY	0	0 0	)	0	0 N	FALSE	2/27/2017	2 4P	۰ (	Washington	Sherwood	PORTLAND UA				16	5						1803
1718125 2	1128 CITY	0	0 0	)	0	0 N	FALSE	2/27/2017	2 4 F	>	Washington	Sherwood	PORTLAND UA				16	ô						1803
1718125 2	1128 CITY	0	0 0	)	0	0 N	FALSE	2/27/2017	2 4 P	۰ ۱	Washington	Sherwood	PORTLAND UA				16	5						1803
1823519 2	6949 CITY	0	0 0	)	0	0 N	FALSE	12/18/2018	3 5P	۰ (	Washington	Sherwood	PORTLAND UA				16	5						1803
1823519 2	6949 CITY	0	0 0	)	0	0 N	FALSE	12/18/2018	3 5 P	> \	Washington	Sherwood	PORTLAND UA				16	5					4 1	1803
1652449 2	7158 COUNTY	0	0 0	)	0	0 N	FALSE	11/25/2015	4 3 P	۰ ۱	Washington	Sherwood	PORTLAND UA				16	5						1803
1652449 2	7158 COUNTY	0	0 0	)	0	0 N	FALSE	11/25/2015	4 3F	۰ v	Washington	Sherwood	PORTLAND UA				16	5						1803
1764832 2	7780 CITY	0	0 0	)	0	0 N	FALSE	12/6/2017	4 1F	<u>،</u>	Washington	Sherwood	PORTLAND UA				16	ô						1803
1764832 2	7780 CITY	0	0 0	)	0	0 N	FALSE	12/6/2017	4 1P	۰ ۱	Washington	Sherwood	PORTLAND UA				16	5						1803
1823390 2	5509 NONE	0	0 0	)	0	0 N	FALSE	10/16/2018	3 4 P	۰ (	Washington	Sherwood	PORTLAND UA				16	5						1803
1823390 2	5509 NONE	0	0 0	)	0	0 N	FALSE	10/16/2018	3 4 P	> \	Washington	Sherwood	PORTLAND UA				16	5						1803
1718125 2	1128 CITY	0	0 0	)	0	0 N	FALSE	2/27/2017	2 4 P	<u>ہ</u>	Washington	Sherwood	PORTLAND UA				16	ō						1803
1718125 2	1128 CITY	0	0 0	)	0	0 N	FALSE	2/27/2017	2 4 P	۰ (	Washington	Sherwood	PORTLAND UA				16	5						1803
1718125 2	1128 CITY	0	0 0	)	0	0 N	FALSE	2/27/2017	2 4 F	<u>ہ</u>	Washington	Sherwood	PORTLAND UA				16	ô						1803
1823519 2	6949 CITY	0	0 0	)	0	0 N	FALSE	12/18/2018	3 5 P	۰ ۱	Washington	Sherwood	PORTLAND UA				16	5						1803
1823519 2	6949 CITY	0	0 0	)	0	0 N	FALSE	12/18/2018	3 5P	۰ (	Washington	Sherwood	PORTLAND UA				16	5						1803
1820129 2	6043 NONE	0	0 0	)	0	0 N	FALSE	11/7/2018	4 3 P	<u>،</u>	Washington		PORTLAND UA				16	5					4 1	1848
1820129 2	6043 NONE	0	0 0	)	0	0 N	FALSE	11/7/2018	4 3 P	۰ ۱	Washington		PORTLAND UA				16	5						1848
1820129 2	6043 NONE	0	0 0	)	0	0 N	FALSE	11/7/2018	4 3 P	<u>ا</u> د	Washington		PORTLAND UA				16	5						1848
1820129 2	6043 NONE	0	0 0	)	0	0 N	FALSE	11/7/2018	4 3 F	۰ ۱	Washington		PORTLAND UA				16	5						1848
1616443 2	6290 NONE	0	0 0	)	0	0 N	FALSE	10/26/2015	2 3 P	>	Washington		PORTLAND UA				16	5						2324
1616443 2	6290 NONE	0	0 0	)	0	0 N	FALSE	10/26/2015	2 3F	۱ c	Washington		PORTLAND UA				16	5						2324

#### 2. Oregon & Tonquin

			RD_CHAR_		CMPSS_DIR			ISECT_TYPMEDN_TYP			TRAF_C		TRAF_CNTL_DE			WTHR_COND RD_SURF_S LGT_COND_				COLLIS_TYP CRASH_SVRT CRASH_E CRASH_					
	ISECT_ST_	_	RD_CHA	SHORT_DE	S CMPSS_	CMPSS_DIR	_SHORT_DE	IMPCT_L	SHORT_DES	_SHORT_DE	TURNG_L		ISECT_RE	VICE_SHORT_D O	OFF_RD	RNDABT	DRVWY_	_SHORT_DES	HORT_DES	SHORT_DES	CRASH_TYP_	_SHORT_DI	Y_SHORT_DE	VNT_1_C	VNT_2_C
ST_NM	NO	ISECT_ST_NM	R_CD	с	DIR_CD	_FROM_CD	SC	OC_CD	С	SC	EG_QTY	LN_QTY	L_FLG	ESC V	NY_FLG	_FLG	REL_FLG	с	С	С	SHORT_DESC	SC	SC	D	D
SW OREGON ST	2303	SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW OREGON ST	2303	B SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		(	STOP SIGN	0	) (	0	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		0	STOP SIGN	0	) (	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		0	STOP SIGN	0	) (	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		(	STOP SIGN	0	) (	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1		0	STOP SIGN	0	) (	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1		0	STOP SIGN	0	) (	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO		1
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		(	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	1	3-LEG		0		(	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		0	STOP SIGN	0	) (	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		0	STOP SIGN	0	) (	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		(	STOP SIGN	0	) (	0	CLD	DRY	DAY	ANGL-OTH	TURN	INJ		
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1		(	STOP SIGN	0		0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO		4
SW OREGON ST	2303	3 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		1		0	STOP SIGN	0	) (	0	RAIN	WET	DLIT	ANGL-OTH	TURN	PDO		
SW OREGON ST	2324	4 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		(	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2324	4 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		0	STOP SIGN	0		0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2324	4 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		0	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW OREGON ST	2324	4 SW TONQUIN RD	1	INTER	9		CN	2	3-LEG		0		(	STOP SIGN	0	) (	0	CLR	DRY	DAY	ANGL-OTH	TURN	PDO		
SW TONQUIN RD	1848	SW OREGON ST	3	STRGHT	4		SE	3		NONE		2	0	UNKNOWN	0		0	RAIN	WET	DAY	S-1STOP	REAR	INJ		
SW TONQUIN RD	1848	B SW OREGON ST	3	STRGHT	4		SE	3		NONE		2	(	UNKNOWN	0	) (	0	RAIN	WET	DAY	S-1STOP	REAR	INJ		

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CRASH_E		LAT	LAT									VHCL_COD		VHCL_USE		VHCL_OWNS	VHCL_MVMN	VHCL_CMPSS_DI	VHCL_CMPSS_D							
VNT_3_C	CRASH_CA CRASH_CA	CRASH_CA DEG	MIN	UTE		LONGTD	LONGTD LC	ONGTD			STRIKG_V	ED_SEQ_N	VHCL_TYP_SF	I SHORT_DE	S TRLR_QT	HP_SHORT_D	T_SHORT_DE	R_FROM_SHORT	IR_TO_SHORT_	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA
D	USE_1_CD USE_2_CD	USE_3_CD NO	NO	LA	AT SEC NO LAT	DEG NO	MINUTE NO SE	C NO	LONG	VHCL_ID	HCL_FLG	0	ORT_DESC	С	Y	ESC	SC	_DESC	DESC	TN_CD	NT_1_CD	NT_2_CD	NT_3_CD	USE_1_CD	USE_2_CD	USE_3_CD
	7		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3119981	1	L 1 I	PSNGR CAR	NONE	0	PRVTE	STRGHT	NE	SW	(				0		
	7		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3119982	0	2	PSNGR CAR	NONE	C	PRVTE	STOP	NE	SW	12	2			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3327638	1	L 1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	(	D			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3327639	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	NE	SW	(	)			0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434193	1	L 1	PSNGR CAR	NONE	g	N/A	TURN-L	SE	SW	0	)			0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434194	0	2	PSNGR CAR	NONE	ç	N/A	STRGHT	NE	SW	(	)			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3241030	1	L 1	PSNGR CAR	NONE	0	PRVTE	STRGHT	SW	NE	0	)			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	(	)			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3241031	(	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	(	)			0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434418	1	ן 1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	(	)			0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434419	0	2	PSNGR CAR	NONE	9	) N/A	STRGHT	SW	NE	(	)			0		
	7		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3119981	1	կ 1	PSNGR CAR	NONE	0	PRVTE	STRGHT	NE	SW	(	)			0		
	7		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3119982	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	NE	SW	12	2			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3327638	1	կ 1	PSNGR CAR	NONE	9	) N/A	TURN-L	SE	SW	0	)			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3327639	0	2	PSNGR CAR	NONE	9	) N/A	STRGHT	NE	SW	(				0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434193	1	L 1	PSNGR CAR	NONE	9	9 N/A	TURN-L	SE	SW	(	)			0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434194	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	NE	SW	(				0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3241030	1	1	PSNGR CAR	NONE	0	) PRVTE	STRGHT	SW	NE	(	)			0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	PRVTE	TURN-L	SE	SW	0				0		
	3		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3241031	0	2	PSNGR CAR	NONE	0	) PRVTE	TURN-L	SE	SW	(	)			0		L
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434418	1	1	PSNGR CAR	NONE	ç	N/A	TURN-L	SE	SW	0				0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3434419	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	SW	NE	(	2			0		L
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3428375	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	(				0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3428376	(	2	PSNGR CAR	NONE	ç	) N/A	STRGHT	SW	NE	(	2			0		L
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3428375	1	1	PSNGR CAR	NONE	9	N/A	TURN-L	SE	SW	0	P			0		
	2		45	21	40.38 45.361216	57 -122	49	25.92	-122.8238667	3428376	0	2	PSNGR CAR	NONE	9	N/A	STRGHT	SW	NE	0	٧ 			0		L
	29		45	21	39.01 45.360836	11 -122	49	24.42	-122.82345	3053045	1	1	PSNGR CAR	NONE	0	PRVTE	STRGHT	NW	SE	0				0		
1	29		45	21	39.01 45.360836	11 -122	49	24.42	-122.82345	3053046	0	2	PSNGR CAR	NONE	0	PRVTE	STOP	NW	SE	11	4			0		1
#### 2. Oregon & Tonquin

				PARTIC_TYP	PARTIC_MVM	PARTIC_CMPSS_D	PARTIC_CMPSS_	INJ_SVRTY_			DRVR_LI	C_ST_DRVR_RES_		NON_MOTRST							PARTIC_C	PARTIC_C	PARTIC_C		
PARTIC_	I STRIKO	G_P PARTIC_VH	PARTIC_	T _SHORT_DE	NT_SHORT_D	IR_FROM_SHORT	DIR_TO_SHORT	_ SHORT_DES	AGE_VA		AT_SHO	RT_D SHORT_DES	PARTIC_A	LOC_SHORT_	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	AUSE_1_C	AUSE_2_C	AUSE_3_C	TOTAL_C	TOTAL_R
D	ARTIC	_FLG_CL_SEQ_NC	YP_CD	SC	ESC	_DESC	DESC	с	L	SEX_CD	ESC	с	CTN_CD	DESC	RR_1_CD	RR_2_CD	RR_3_CD	VNT_1_CD	VNT_2_CD	VNT_3_CD	D	D	D	RASHES	OWS
355880	1	0 1		1 DRVR				NONE	17	'	1 OR-Y	OR<25	0		43	26						7		51	. 120
355880	2	0 1		1 DRVR				NONE	48		1 OR-Y	OR<25	0	)	C							)		51	. 120
379285	1	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0		0						(			51	. 120
379285	2	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0	)	C						(	)		51	. 120
391191	.2	0 1	L	1 DRVR				NONE	0	)	9 UNK	UNK	0		C							D		51	. 120
391191	.3	1 0		1 DRVR				NONE	0	)	9 UNK	UNK	0		0						(	D		51	. 120
369353	9	0 1	L	1 DRVR				INJC	34	ł	1 OR-Y	OR<25	0	0	C							)		51	. 120
369354	0	0 1		1 DRVR				NONE	78		1 OR-Y	OR<25	0	)	20							3		51	. 120
369354	1	0 2	2	2 PSNG				INJC	50	)	2		0	D	0							D		51	. 120
391212	3	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0	)	C						(	)		51	. 120
391212	.4	0 1	1	1 DRVR				NONE	0	)	9 UNK	UNK	0		0						0	D		51	. 120
355880	1	0 1		1 DRVR				NONE	17	'	1 OR-Y	OR<25	(	D	43	26						7		6	i 12
355880	2	0 1	L	1 DRVR				NONE	48	5	1 OR-Y	OR<25	0		C							D		6	i 12
379285	1	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0	)	0						(	D		6	i 12
379285	2	0 1	1	1 DRVR				NONE	0	)	9 UNK	UNK	0		C							D		6	5 12
391191	2	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0	)	C						(	)		6	i 12
391191	.3	0 1	1	1 DRVR				NONE	0	)	9 UNK	UNK	0		0						0	D		6	i 12
369353	9	0 1		1 DRVR				INJC	34	L	1 OR-Y	OR<25	0	D	C						(	)		6	i 12
369354	0	0 1	L	1 DRVR				NONE	78	5	1 OR-Y	OR<25	0		20						3	3		6	i 12
369354	1	0 2	2	2 PSNG				INJC	50	)	2		0	)	0						(	D		6	i 12
391212	3	0 1	1	1 DRVR				NONE	0	)	9 UNK	UNK	(		C							D		6	5 12
391212	4	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0	)	C						(	)		6	i 12
390639	8	0 1	1	1 DRVR				NONE	0	)	9 UNK	UNK	0		C						(			1	i 2
390639	9	0 1	l	1 DRVR				NONE	0	)	9 UNK	UNK	(	)	C						(	0		1	. 2
390639	8	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	(		C						0			57	/ 98
390639	9	0 1		1 DRVR				NONE	0	)	9 UNK	UNK	0		C						(			57	/ 98
348577	0	1 0	1	1 DRVR				NONE	48	5	1 OR-Y	OR<25	(		26						29	)		57	/ 98
348577	1	0 1		1 DRVR				INJC	70	)	2 OR-Y	OR<25	0		0						(	)		57	/ 98

			INVS	G_AGY CRASH_SP	EE					LANE RDWY				CRASH_HR_									HWY_COMPN					
CRASH_			_SHO	RT_DES D_INVLV_P	FL ALCHL_II	N DRUG_IN	MJ_INVL	SCHL_ZO	WRK_ZC	D DPRT CRASH	UNLOCT		CRASH_W	SHORT_DES		CITY_SECT	URB_AREA_SHC	R		RDWY_N		HWY_CO	T_SHORT_DE	MLGE_TY	RD_CON			
D	INT_ID	SER_NO	С	G	VLV_FLG	VLV_FLG	V_FLG	NE_IND	NE_IND	FLG	FLG	CRASH_DT	K_DAY_CD	C	CNTY_NM	_NM	T_NM	HWY_NO	HWY_MED_NM	0	FC_CD	MPNT_C	SC SC	P_CD	_NO	LRS VAL	MP_NO	ST_NO
158467		3 36	81 NONE		0	0	D		D	0 N	FALSE	7/1/2014	3	6A	Washington	Sherwood	PORTLAND UA				16							1503
158467		3 36	81 NONE		0	0	0		0	0 N	FALSE	7/1/2014		8 6A	Washington	Sherwood	PORTLAND UA				16							1503
177562	1	3 2	28 CITY		0	0	0		0	0 N	FALSE	1/15/2018		2 2A	Washington	Sherwood	PORTLAND UA				16							1503
178594		3 17	56 CITY		0	0	0		D	0 N	FALSE	4/10/2018	3	3 5P	Washington	Sherwood	PORTLAND UA				16							1503
178594		3 17	56 CITY		0	0	0		0	0 N	FALSE	4/10/2018		3 5P	Washington	Sherwood	PORTLAND UA				16							1503
158467		3 36	81 NONE		0	0	0		0	0 N	FALSE	7/1/2014		6A	Washington	Sherwood	PORTLAND UA				16							1503
158467		3 36	81 NONE		0	0	D		D	0 N	FALSE	7/1/2014	3	3 6A	Washington	Sherwood	PORTLAND UA				16							1503
177562	-	3 2	28 CITY		0	0	0		0	0 N	FALSE	1/15/2018		2 2A	Washington	Sherwood	PORTLAND UA				16							1503
178594		3 17	56 CITY		0	0	0		0	0 N	FALSE	4/10/2018	3	3 5P	Washington	Sherwood	PORTLAND UA				16							1503
178594		3 17	56 CITY		0	0	0		D	0 N	FALSE	4/10/2018		8 5 P	Washington	Sherwood	PORTLAND UA				16							1503

																								_	
				RD_CHAR_			CMPSS_DIR		ISECT_TYP_	MEDN_TYP				TRAF_CNTL_DE				WTHR_CON	D RD_SURF_	S LGT_COND		COLLIS_TYP	CRASH_SVRT	CRASH_E	CRASH_E
	ISECT_ST	_	RD_CH	IA SHORT_DE	S CMPSS_	CMPSS_DIR	_SHORT_DE	IMPCT_L	. SHORT_DES	_SHORT_DE	TURNG_L		ISECT_RE	VICE_SHORT_D	OFF_RD	RNDABT	DRVWY_	_SHORT_DE	S HORT_DES	SHORT_DES	G CRASH_TYP_	_SHORT_DE	Y_SHORT_DE	VNT_1_C	VNT_2_C
ST_NM	NO	ISECT_ST_NM	R_CD	с	DIR_CD	_FROM_CD	SC	OC_CD	С	SC	EG_QTY	LN_QTY	L_FLG	ESC	WY_FLG	_FLG	REL_FLG	с	С	С	SHORT_DESC	SC	SC	D	D
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	5		S		6 3-LEG		0	)		0 YIELD	0		L (	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	5		S		6 3-LEG		(	)		0 YIELD	0	1	L (	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	9		CN		2 3-LEG		(	)		0 UNKNOWN	1	:	L (	CLR	DRY	DLIT	FIX OBJ	FIX	INJ	50	
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	9		CN		2 3-LEG		0	)		0 YIELD	0		L (	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	9		CN		2 3-LEG		(	)		0 YIELD	0	1	L (	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	5		S		6 3-LEG		(	)		0 YIELD	0	:	L (	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	5		S		6 3-LEG		(	)		0 YIELD	0		L (	CLR	DRY	DAY	S-1STOP	REAR	PDO		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	9		CN		2 3-LEG		(	)		0 UNKNOWN	1	1	L (	CLR	DRY	DLIT	FIX OBJ	FIX	INJ	50	
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	9		CN		2 3-LEG		(	)		0 YIELD	0	:	L (	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ		
SW MURDOCK RD	180	3 SW OREGON ST		1 INTER	9		CN		2 3-LEG		(	)		0 YIELD	0		L (	CLD	DRY	DAY	ANGL-OTH	ANGL	INJ		

																												_
CRASH_E				LAT	LAT									VHCL_COD		VHCL_USE_		VHCL_OWNS	VHCL_MVMN	VHCL_CMPSS_DI	VHCL_CMPSS_D							
VNT_3_C	CRASH_C	A CRASH_C/	A CRASH_CA	DEG	MINUTE			LONGTD	LONGTD	LONGTD			STRIKG_V	ED_SEQ_N	VHCL_TYP_SH	SHORT_DES	TRLR_QT	HP_SHORT_D	T_SHORT_DE	R_FROM_SHORT	IR_TO_SHORT_	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA
D	USE_1_C	D USE_2_CD	USE_3_CD	NO	NO	LAT SEC NO	LAT	DEG NO	MINUTE N	O SEC NO	LONG	VHCL_ID	HCL_FLG	0	ORT_DESC	С	Y	ESC	SC	_DESC	DESC	TN_CD	NT_1_CD	NT_2_CD	NT_3_CD	USE_1_CD	USE_2_CD	USE_3_CD
		7		45	5 21	l 37.46	45.3604055	5 -122	4	9 30.64	-122.8251778	2992811		l 1	1 PSNGR CAR	NONE	0	) PRVTE	STRGHT	S	N	C				0		
		7		45	5 21	l 37.46	6 45.3604055	6 -122	4	9 30.64	-122.8251778	2992812		0 2	2 PSNGR CAR	NONE	(	) PRVTE	STOP	s	N	11				0		
		16 3	2	45	5 21	l 37.46	5 45.3604055	5 -122	4	9 30.64	-122.8251778	3346553		L 1	1 PSNGR CAR	NONE		) PRVTE	STRGHT	E	w	C	50			0		
		2		45	5 21	L 37.46	6 45.3604055	5 -122	4	9 30.64	-122.8251778	3365953		L 1	1 PSNGR CAR	NONE	(	) PRVTE	STRGHT	S	N	C				0		
		2		45	5 21	l 37.46	5 45.3604055	5 -122	4	9 30.64	-122.8251778	3365954	. (	2	2 PSNGR CAR	NONE		RENTL	STRGHT	E	w	C				0		
		7		4	5 21	l 37.46	5 45.3604055	5 -122	4	9 30.64	-122.8251778	2992811		1 1	1 PSNGR CAR	NONE	(	) PRVTE	STRGHT	S	N	C				0		
		7		45	5 21	l 37.46	45.3604055	5 -122	4	9 30.64	-122.8251778	2992812	. (	) 2	2 PSNGR CAR	NONE		) PRVTE	STOP	S	N	11				0		
		16 3	2	45	5 21	l 37.46	6 45.3604055	6 -122	4	9 30.64	-122.8251778	3346553		1 1	1 PSNGR CAR	NONE	(	) PRVTE	STRGHT	E	w	C	50			0		
		2		45	5 21	l 37.46	5 45.3604055	5 -122	4	9 30.64	-122.8251778	3365953		L 1	1 PSNGR CAR	NONE		) PRVTE	STRGHT	S	N	C	)			0		
		2		4	5 21	37.46	5 45.3604055	5 -122	4	9 30.64	-122.8251778	3365954		) 2	2 PSNGR CAR	NONE	(	D RENTL	STRGHT	E	W	C				0		

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				PARTIC_TYP	PARTIC_MVM	PARTIC_CMPSS_D	PARTIC_CMPSS	INJ_SVRTY_			DRVR	LIC_ST DRVR_RES_		NON_MOTRST							PARTIC_C	PARTIC_C	PARTIC_C		
PARTIC	I STRIKG_F	PARTIC_VH	PARTIC_1	_SHORT_DE	NT_SHORT_D	IR_FROM_SHORT	DIR_TO_SHORT	_ SHORT_DES	AGE_VA		AT_SH	IORT_D SHORT_DES	PARTIC_/	A _LOC_SHORT_	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	AUSE_1_C	AUSE_2_C	AUSE_3_C	TOTAL_C	TOTAL_R
D	ARTIC_FL	G CL_SEQ_N	D YP_CD	SC	ESC	_DESC	DESC	С	L	SEX_CD	ESC	с	CTN_CD	DESC	RR_1_CD	RR_2_CD	RR_3_CD	VNT_1_CD	VNT_2_CD	VNT_3_C	D	D	D	RASHES	OWS
341483	19	0	1 :	L DRVR				NONE	50	)	2 OR-Y	OR<25		כ	26						7	7		51	120
341484	10	0	1 :	L DRVR				NONE	39		2 OR-Y	OR<25	0	D	0						0	)		51	120
381148	32	0	1 :	L DRVR				INJC	19	)	2 OR-Y	OR<25	2	5	81	52					16	5 32		51	120
383595	6	0	1 :	L DRVR				INJC	22	1	2 OR-Y	OR<25	(	D	0						0	)		51	120
383595	57	0	1 :	L DRVR				NONE	21		1 OR-Y	OR>25	(	D	28						2	2		51	120
341483	19	0	1 :	L DRVR				NONE	50	)	2 OR-Y	OR<25	(	0	26						7	1		9	19
341484	10	0	1 :	L DRVR				NONE	39	)	2 OR-Y	OR<25		D	0						0			9	19
381148	32	0	1 :	L DRVR				INJC	19	)	2 OR-Y	OR<25	2	5	81	. 52					16	5 32		9	19
383595	6	0	1 :	L DRVR				INJC	22	1	2 OR-Y	OR<25		D	C						(	D		9	19
383595	57	0	1 :	LDRVR				NONE	21		1 OR-Y	OR>25	(	D	28						2	2		9	19

		1	VVSTG_AGY	CRASH_SPEE						LANE RDWY				CRASH_HR_									HWY_COMPN					
CRASH_I		-	SHORT_DES	D_INVLV_FL	ALCHL_IN D	RUG_IN	MJ_INVL	SCHL_ZO	WRK_ZO	DPRT CRASH	UNLOCT		CRASH_W	SHORT_DES		CITY_SECT	URB_AREA_SHOR			RDWY_N		HWY_CO	T_SHORT_DE	MLGE_TY	RD_CON			
D	NT_ID	SER_NO C		G	VLV_FLG V	LV_FLG	V_FLG	NE_IND	NE_IND	FLG	FLG	CRASH_DT	K_DAY_CD	C	CNTY_NM	_NM	T_NM	HWY_NO	HWY_MED_NM	0	FC_CD	MPNT_CD	SC	P_CD	_NO	LRS VAL	MP_NO	ST_NO
1732159		4 3869 C	ITY	C	0	0		(	) (	DN	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159		4 3869 C	ITY	C	0	0		(	) (	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159		1 3869 C	ITY	C	0	0		(	) (	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159	4	4 3869 C	ITY	C	0	0		(	) (	DN	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159		4 3869 C	ITY	C	0	0		(	) (	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1750127		4 6072 0	ITY	C	0	0		(	) (	D N	FALSE	9/30/2017	7 7	7 1P	Washington	Sherwood	PORTLAND UA				16							1503
1750127		4 6072 C	ITY	C	0	0		(	ו ו	DN	FALSE	9/30/2017	/ <del>,</del>	7 1P	Washington	Sherwood	PORTLAND UA				16							1503
1732159	4	4 3869 C	ITY	C	0	0		(	)	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159		1 3869 C	ITY	C	0	0		(	) (	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159		4 3869 C	ITY	C	0	0		(	ו כ	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159	4	1 3869 C	ITY	C	0	0		0	)	D N	FALSE	6/27/2017	/ 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1732159		4 3869 C	ITY	C	0	0		(	) (	D N	FALSE	6/27/2017	1 3	3 4P	Washington	Sherwood	PORTLAND UA				16							1503
1750127		4 6072 0	ITY	C	0	0		(		DN	FALSE	9/30/2017	7	7 1P	Washington	Sherwood	PORTLAND UA				16							1503
1750127	4	4 6072 0	ITY	C	0	0		(		D N	FALSE	9/30/2017	7 7	7 1P	Washington	Sherwood	PORTLAND UA				16							1503

				RD_CHAR	_		CMPSS_DIR		ISECT_TYP_	MEDN_TYP				TRAF_CNTL_DE				WTHR_COND	RD_SURF_S	LGT_COND	-	COLLIS_TYP	CRASH_SVRT	CRASH_E	CRASH_E
	ISECT_ST_		RD_CHA	SHORT_DE	S CMPSS_	CMPSS_DIR	_SHORT_DE	IMPCT_L	SHORT_DES	_SHORT_DE	TURNG_L		ISECT_RE	VICE_SHORT_D	OFF_RD	RNDABT	DRVWY_	_SHORT_DES	HORT_DES	SHORT_DES	CRASH_TYP_	_SHORT_DE	Y_SHORT_DE	VNT_1_C	VNT_2_C
ST_NM	NO	ISECT_ST_NM	R_CD	С	DIR_CD	_FROM_CD	SC	OC_CD	с	SC	EG_QTY	LN_QTY	L_FLG	ESC	WY_FLG	_FLG	REL_FLG	С	с	С	SHORT_DESC	SC	SC	D	D
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	CROSS		0			STOP SIGN	0	(	) (	CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	6 CROSS		0		0	STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	CROSS		0			STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	CROSS		0			STOP SIGN	0	(	)	) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	5 CROSS		0		0	STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	6 CROSS		0			STOP SIGN	0	(		CLD	WET	DAY	S-1STOP	REAR	PDO		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	CROSS		0			STOP SIGN	0	(	)	CLD	WET	DAY	S-1STOP	REAR	PDO		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	6 CROSS		0		0	STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	6 CROSS		0			STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	CROSS		0		(	STOP SIGN	0	(	)	) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	5 CROSS		0		0	STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	6	6 CROSS		0		(	STOP SIGN	0	(		) CLR	DRY	DAY	S-1STOP	REAR	INJ		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	CROSS		0			STOP SIGN	0	(	)	CLD	WET	DAY	S-1STOP	REAR	PDO		
MURDOCK RD	2205	SUNSET BLVD	1	INTER	1		N	(	CROSS		0			STOP SIGN	0	(		CLD	WET	DAY	S-1STOP	REAR	PDO		

CRASH_E			L	AT	LAT									VHCL_COD		VHCL_USE	_	VHCL_OWNS	VHCL_MVMN	VHCL_CMPSS_DI	VHCL_CMPSS_D							
VNT_3_C	CRASH_CA	CRASH_CA	CRASH_CA D	EG	MINUTE			LONGTD	LONGTD	LONGTD			STRIKG_V	ED_SEQ_N	VHCL_TYP_SH	SHORT_DE	S TRLR_QT	HP_SHORT_D	T_SHORT_DE	R_FROM_SHORT	IR_TO_SHORT_	VHCL_AC	VHCL_EV	VHCL_EV	VHCL_EV	VHCL_CA	VHCL_CA	VHCL_CA
D	USE_1_CD	USE_2_CD	USE_3_CD N	0	NO	LAT SEC NO	LAT	DEG NO	MINUTE NO	SEC NO	LONG	VHCL_ID	HCL_FLG	0	ORT_DESC	С	Y	ESC	SC	_DESC	DESC	TN_CD	NT_1_CD	NT_2_CD	NT_3_CD	USE_1_CD	USE_2_CD	USE_3_CD
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267662		1 1	PSNGR CAR	NONE		D PRVTE	STRGHT	N	S	0				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	(	0 PRVTE	STOP	N	S	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	(	D PRVTE	STOP	N	S	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	0	D PRVTE	STOP	N	S	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	(	D PRVTE	STOP	N	S	11				0		
	29			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3301472		1 1	PSNGR CAR	NONE	9	9 N/A	STRGHT	N	S	0				0		
	29			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3301473		0 2	TRUCK	NONE	9	9 N/A	STOP	N	S	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267662		1 1	PSNGR CAR	NONE	(	D PRVTE	STRGHT	N	s	0				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	(	D PRVTE	STOP	N	S	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	0	D PRVTE	STOP	N	S	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE		D PRVTE	STOP	N	s	11				0		
	7			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3267663		0 2	PSNGR CAR	NONE	(	D PRVTE	STOP	N	S	11				0		
	29			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3301472		1 1	PSNGR CAR	NONE	9	9 N/A	STRGHT	N	S	0				0		
	29			45	20	58.65	45.34962	5 -122	49	36.96	-122.8269333	3301473		0 2	TRUCK	NONE	9	9 N/A	STOP	N	s	11				0		

		PARTIC	TYP PARTIC_MV	M PARTIC_CMPSS_I	D PARTIC_CMPSS	INJ_SVRTY			DRVR_LIC	_ST_DRVR_RES_		NON_MOTRST							PARTIC_C	PARTIC_C	PARTIC_C		
PARTIC_	I STRIKG_P PARTIC_VH	PARTIC_T _SHOR	_DE NT_SHORT_	D IR_FROM_SHORT	DIR_TO_SHORT	_ SHORT_DES	AGE_VA		AT_SHOR	T_D SHORT_DES	PARTIC_	LOC_SHORT_	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	PARTIC_E	AUSE_1_C	AUSE_2_C	AUSE_3_C	TOTAL_C	TOTAL_R
D	ARTIC_FLG CL_SEQ_N	O YP_CD SC	ESC	_DESC	DESC	С	L	SEX_CD	ESC	C	CTN_CD	DESC	RR_1_CD	RR_2_CD	RR_3_CD	VNT_1_CD	VNT_2_CC	VNT_3_C	D	D	D	RASHES	ows
372557	4 0	1 1 DRVR				NONE	1	Ð	2 OR-Y	OR<25		כ	43						7	/		9	9 19
372557	5 0	1 1 DRVR				INJC	2	Ð	2 OR-Y	OR<25		5	0						0	)		5	9 19
372557	6 0	2 2 PSNG				INJC		1	1			D	0						0			Ş	9 19
372557	7 0	3 2 PSNG				INJC		5	2		(	5	0						0	)		2	9 19
372557	8 0	4 2 PSNG				INJC		3	1			D	0						0			5	9 19
376726	0 0	1 1 DRVR				NONE		)	9 UNK	UNK	(	0	0						(	)		ŝ	9 19
376726	1 0	1 1 DRVR				NONE		)	9 UNK	UNK		D	0						0			2	9 19
372557	4 0	1 1 DRVR				NONE	1	Э	2 OR-Y	OR<25		D	43						7	'		55	5 127
372557	5 0	1 1 DRVR				INJC	2	Ð	2 OR-Y	OR<25		D	0						0	D		55	5 127
372557	6 0	2 2 PSNG				INJC		1	1		(	D	0						0	0		55	5 127
372557	7 0	3 2 PSNG				INJC		5	2			D	0						0			55	5 127
372557	8 0	4 2 PSNG				INJC		3	1		(	D	0						(	)		55	5 127
376726	0 0	1 1 DRVR				NONE		0	9 UNK	UNK		D	0						0	)		55	5 127
376726	1 0	1 1 DRVR				NONE		)	9 UNK	UNK	(	D	0						(	)		55	5 127

# Appendix F

# **Signal Warrant Worksheets**



# **Traffic Signal Warrant Analysis**

Project: Date: Scenario:	20092 - Polley Indu 5/23/2022 Year 2023 Buildout	strial TIS Conditions			U
Major Street:	SW Oregon Street		Minor Street:	SW Tonquin Ro	bad
Number of Lanes:	1		Number of Lanes:	1	
PM Peak Hour Volumes:	1062		PM Peak Hour Volumes:	416	
Warrant Used:					
x	_ 100 percent of standa	rd warrants u	sed		
	70 percent of standar of 40 mph or isolated	d warrants us community wi	ed due to 85th perce th population less th	entile speed in exce an 10,000.	ess
Number of	Lanes for Moving	ADT on	Major St.	ADT on M	linor St.
Traffic on	Each Approach:	(total of both	n approaches)	(higher-volum	e approach)
WARRANT 1, CO	NDITION A	100%	70%	100%	70%
Major St.	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CO	NDITION B				
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250
		Note: ADT v	olumes assume 8th high	est hour is 5.6% of the	daily volume
		Approach Volumes	Minimum Volumes	ls Signal Warrant Met?	
Warrant 1					
Condition A: Minin	num Vehicular Volume				
Major Street		10,620	8,850		
Minor Street*		4,160	2,650	Yes	
Condition B: Interr	ruption of Continuous Tr	affic			
Major Street		10,620	13,300		
Minor Street*		4,160	1,350	Νο	
Combination Warr	rant				
Major Street		10,620	10,640		
Minor Street*		4,160	2,120	Νο	

\* Minor street right-turning traffic volumes reduced by 25%



# **Traffic Signal Warrant Analysis**

Project: Date: Scenario:	20092 - Polley Indu 5/23/2022 Year 2023 Buildout	strial TIS Conditions			U
Major Street:	SW Murdock Road		Minor Street:	SW Sunset Bou	ulevard
Number of Lanes:	1		Number of Lanes:	1	
PM Peak Hour Volumes:	973		PM Peak Hour Volumes:	247	
Warrant Used:					
X	_ 100 percent of standa	rd warrants u	sed		
	70 percent of standard of 40 mph or isolated	d warrants us community w	ed due to 85th perce ith population less th	entile speed in exce an 10,000.	ess
Number of	Lanes for Moving	ADT on	Major St.	ADT on M	linor St.
Traffic on	Each Approach:	(total of both	n approaches)	(higher-volum	e approach)
WARRANT 1, CO	NDITION A	100%	70%	100%	70%
<u>Major St.</u>	<u>Minor St.</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CO	NDITION B				
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250
		Note: ADT v	olumes assume 8th high	est hour is 5.6% of the	daily volume
		Approach Volumes	Minimum Volumes	Is Signal Warrant Met?	
Warrant 1					
Condition A: Minin	num Vehicular Volume				
Major Street		9,730	8,850		
Minor Street*		2,470	2,650	Νο	
Condition B: Interr	uption of Continuous Tr	affic			
Major Street		9,730	13,300		
Minor Street*		2,470	1,350	Νο	
Combination Warr	ant				
Major Street		9,730	10,640		
Minor Street*		2,470	2,120	Νο	

\* Minor street right-turning traffic volumes reduced by 25%

# **Traffic Signal Warrant Analysis**

Project: Date: Scenario:	20092 - Polley Indu 5/23/2022 Year 2023 Buildout	strial TIS Conditions			U
Maior Street:	SW Oregon Street		Minor Street:	Site Access	
Number of Lanes:	1		Number of Lanes:	1	
PM Peak Hour Volumes:	981		PM Peak Hour Volumes:	57	
Warrant Used:					
Х	100 percent of standa	rd warrants u	sed		
	70 percent of standard of 40 mph or isolated	d warrants us community w	ed due to 85th perce ith population less th	entile speed in exce nan 10,000.	ess
Number of	Lanes for Moving	ADT on	Major St.	ADT on M	linor St.
Traffic on	Each Approach:	(total of both	h approaches)	(higher-volum	e approach)
WARRANT 1, CO	NDITION A	100%	70%	100%	70%
<u>Major St.</u>	Minor St.	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>	<u>Warrants</u>
1	1	8,850	6,200	2,650	1,850
2 or more	1	10,600	7,400	2,650	1,850
2 or more	2 or more	10,600	7,400	3,550	2,500
1	2 or more	8,850	6,200	3,550	2,500
WARRANT 1, CO	NDITION B				
1	1	13,300	9,300	1,350	950
2 or more	1	15,900	11,100	1,350	950
2 or more	2 or more	15,900	11,100	1,750	1,250
1	2 or more	13,300	9,300	1,750	1,250
		Note: ADT v	olumes assume 8th high	est hour is 5.6% of the	daily volume
		Approach Volumes	Minimum Volumes	Is Signal Warrant Met?	
Warrant 1					
Condition A: Minin	num Vehicular Volume				
Major Street		9,810	8,850		
Minor Street*		570	2,650	Νο	
Condition B: Interi	ruption of Continuous Tr	affic			
Major Street		9,810	13,300		
Minor Street*		570	1,350	Νο	
Combination Warr	rant				
Major Street		9,810	10,640		
Minor Street*		570	2,120	Νο	

\* Minor street right-turning traffic volumes reduced by 25%



# Appendix G

# Left Turn Lane Warrant Worksheets



### Left-Turn Lane Warrant Analysis



Project:	20092 - Polley Industrial TIS
Intersection:	5. SW Oregon Street & Site Access
Date:	5/23/2022
Scenario:	Year 2023 Buildout Conditions - AM Peak Hour (WB)

### 2-lane roadway (English)

INPUT	
-------	--

Variable	Value
85 <sup>th</sup> percentile speed, mph:	35
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	17%
Advancing volume (V <sub>A</sub> ), veh/h:	240
Opposing volume (V <sub>O</sub> ), veh/h:	649

#### OUTPUT

Variable	Value	
Limiting advancing volume (V <sub>A</sub> ), veh/h:	241	
Guidance for determining the need for a major-road left-turn bay:		
Left-turn treatment NOT warranted.		



#### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

### Left-Turn Lane Warrant Analysis



Project:	20092 - Polley Industrial TIS
Intersection:	5. SW Oregon Street & Site Access
Date:	5/23/2022
Scenario:	Year 2023 Buildout Conditions - PM Peak Hour (WB)

### 2-lane roadway (English)

IN	PU	Т
----	----	---

Variable	Value
85 <sup>th</sup> percentile speed, mph:	35
Percent of left-turns in advancing volume (V <sub>A</sub> ), %:	1%
Advancing volume (V <sub>A</sub> ), veh/h:	625
Opposing volume (V <sub>o</sub> ), veh/h:	356

#### OUTPUT

Variable	Value	
Limiting advancing volume (V <sub>A</sub> ), veh/h:	1258	
Guidance for determining the need for a major-road left-turn bay:		
Left-turn treatment NOT warranted.		



#### CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Appendix H LOS Definition



## LEVEL OF SERVICE

Level of service is used to describe the quality of traffic flow. Levels of service A to C are considered good, and rural roads are usually designed for level of service C. Urban streets and signalized intersections are typically designed for level of service D. Level of service E is considered to be the limit of acceptable delay. For unsignalized intersections, level of service E is generally considered acceptable. Here is a more complete description of levels of service:

*Level of service A:* Very low delay at intersections, with all traffic signal cycles clearing and no vehicles waiting through more than one signal cycle. On highways, low volume and high speeds, with speeds not restricted by other vehicles.

*Level of service B:* Operating speeds beginning to be affected by other traffic; short traffic delays at intersections. Higher average intersection delay than for level of service A resulting from more vehicles stopping.

*Level of service C:* Operating speeds and maneuverability closely controlled by other traffic; higher delays at intersections than for level of service B due to a significant number of vehicles stopping. Not all signal cycles clear the waiting vehicles. This is the recommended design standard for rural highways.

Level of service D: Tolerable operating speeds; long traffic delays occur at intersections. The influence of congestion is noticeable. At traffic signals many vehicles stop, and the proportion of vehicles not stopping declines. The number of signal cycle failures, for which vehicles must wait through more than one signal cycle, are noticeable. This is typically the design level for urban signalized intersections.

*Level of service E:* Restricted speeds, very long traffic delays at traffic signals, and traffic volumes near capacity. Flow is unstable so that any interruption, no matter how minor, will cause queues to form and service to deteriorate to level of service F. Traffic signal cycle failures are frequent occurrences. For unsignalized intersections, level of service E or better is generally considered acceptable.

*Level of service F:* Extreme delays, resulting in long queues which may interfere with other traffic movements. There may be stoppages of long duration, and speeds may drop to zero. There may be frequent signal cycle failures. Level of service F will typically result when vehicle arrival rates are greater than capacity. It is considered unacceptable by most drivers.



# LEVEL OF SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS

LEVEL	CONTROL DELAY
OF	PER VEHICLE
SERVICE	(Seconds)
А	<10
В	10-20
С	20-35
D	35-55
Е	55-80
F	>80

# LEVEL OF SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS

LEVEL	CONTROL DELAY
OF	PER VEHICLE
SERVICE	(Seconds)
А	<10
В	10-15
С	15-25
D	25-35
Е	35-50
F	>50

Appendix I Capacity Worksheets



# HCM 6th Signalized Intersection Summary 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

	۶	<b>→</b>	7	4	-	*	1	Ť	1	1	ŧ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	1	1	7	4			्र	1		\$	
Traffic Volume (veh/h)	8	766	158	125	583	0	79	4	316	4	0	0
Future Volume (veh/h)	8	766	158	125	583	0	79	4	316	4	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1767	1767	1767	1663	1663	1663	1796	1796	1796	1530	1530	1530
Adj Flow Rate, veh/h	8	798	165	130	607	0	82	4	329	4	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	9	9	9	16	16	16	7	7	7	25	25	25
Cap, veh/h	372	934	792	265	964	0	401	17	438	253	0	0
Arrive On Green	0.01	0.53	0.53	0.06	0.58	0.00	0.23	0.23	0.23	0.23	0.00	0.00
Sat Flow, veh/h	1682	1767	1497	1584	1663	0	1367	77	1522	702	0	0
Grp Volume(v), veh/h	8	798	165	130	607	0	86	0	329	4	0	0
Grp Sat Flow(s),veh/h/ln	1682	1767	1497	1584	1663	0	1444	0	1522	702	0	0
Q Serve(g_s), s	0.2	29.6	4.4	2.6	18.4	0.0	0.0	0.0	15.0	0.3	0.0	0.0
Cycle Q Clear(g_c), s	0.2	29.6	4.4	2.6	18.4	0.0	3.1	0.0	15.0	3.4	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.95		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	372	934	792	265	964	0	419	0	438	253	0	0
V/C Ratio(X)	0.02	0.85	0.21	0.49	0.63	0.00	0.21	0.00	0.75	0.02	0.00	0.00
Avail Cap(c_a), veh/h	487	1612	1366	812	1735	0	478	0	503	290	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.5	15.4	9.5	14.8	10.6	0.0	24.0	0.0	24.7	25.4	0.0	0.0
Incr Delay (d2), s/veh	0.0	2.8	0.2	0.5	0.8	0.0	0.1	0.0	4.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	10.1	1.2	0.9	5.3	0.0	1.2	0.0	5.5	0.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.5	18.3	9.7	15.4	11.4	0.0	24.1	0.0	29.0	25.4	0.0	0.0
LnGrp LOS	А	В	А	В	В	А	С	А	С	С	А	А
Approach Vol, veh/h		971			737			415			4	
Approach Delay, s/veh		16.7			12.1			28.0			25.4	
Approach LOS		В			В			С			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.7	45.8		21.7	4.8	49.7		21.7				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	4.6	31.6		5.4	2.2	20.4		17.0				
Green Ext Time (p_c), s	0.1	8.7		0.0	0.0	5.3		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			17.3									
HCM 6th LOS			В									

#### Notes

User approved pedestrian interval to be less than phase max green.

Int Delay, s/veh	4.9						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1	1	٦	1	٦	1	
Traffic Vol, veh/h	491	316	62	129	150	100	
Future Vol, veh/h	491	316	62	129	150	100	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	)
RT Channelized	-	Yield	-	None	-	None	:
Storage Length	-	215	190	-	0	210	)
Veh in Median Storage,	,# 0	-	-	0	0	-	-
Grade, %	0	-	-	0	0	-	-
Peak Hour Factor	93	93	93	93	93	93	5
Heavy Vehicles, %	1	1	13	13	15	15	,
M∨mt Flow	528	340	67	139	161	108	6

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0 528	0 801	528	
Stage 1	-		- 528	-	
Stage 2	-		- 273	-	
Critical Hdwy	-	- 4.23	- 6.55	6.35	
Critical Hdwy Stg 1	-		- 5.55	-	
Critical Hdwy Stg 2	-		- 5.55	-	
Follow-up Hdwy	-	- 2.317	- 3.635	3.435	
Pot Cap-1 Maneuver	-	- 985	- 336	526	
Stage 1	-		- 566	-	
Stage 2	-		- 744	-	
Platoon blocked, %	-	-	-		
Mov Cap-1 Maneuver	-	- 985	- 313	526	
Mov Cap-2 Maneuver	-		- 313	-	
Stage 1	-		- 566	-	
Stage 2	-		- 693	-	
Annroach	FB	W/R	NB		
UCM Control Dolovia					

HCM Control Delay, s	0	2.9	22.3	
HCM LOS			С	

Minor Lane/Major Mvmt	NBLn1 I	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	313	526	-	-	985	-
HCM Lane V/C Ratio	0.515	0.204	-	-	0.068	-
HCM Control Delay (s)	28.1	13.6	-	-	8.9	-
HCM Lane LOS	D	В	-	-	А	-
HCM 95th %tile Q(veh)	2.8	0.8	-	-	0.2	-

Intersection				
Intersection Delay, s/veh	9.2			
Intersection LOS	А			
Approach	EB	WB	NB	
Entry Lanes	1	1	1	
Conflicting Circle Lanes	1	1	1	
Adj Approach Flow, veh/h	519	306	535	
Demand Flow Rate, veh/h	530	309	541	
Vehicles Circulating, veh/h	106	60	441	
Vehicles Exiting, veh/h	263	922	195	
Ped Vol Crossing Leg, #/h	0	0	0	
Ped Cap Adj	1.000	1.000	1.000	
Approach Delay, s/veh	7.3	4.9	13.6	
Approach LOS	А	А	В	
Lane	Left	Left	Left	
Designated Moves	TR	LT	LR	
Assumed Moves	TR	LT	LR	
RT Channelized				
Lane Util	1.000	1.000	1.000	
Follow-Up Headway, s	2.609	2.609	2.609	
Critical Headway, s	4.976	4.976	4.976	
Entry Flow, veh/h	530	309	541	
Cap Entry Lane, veh/h	1238	1298	880	
Entry HV Adj Factor	0.980	0.990	0.989	
Flow Entry, veh/h	519	306	535	
Cap Entry, veh/h	1214	1285	870	
V/C Ratio	0.428	0.238	0.615	
Control Delay, s/veh	7.3	4.9	13.6	
LOS	А	А	В	
95th %tile Queue, veh	2	1	4	

Intersection Delay, s/veh 14 Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	4			4			4			4		
Traffic Vol, veh/h	258	7	218	5	22	25	134	144	3	5	118	66	
Future Vol, veh/h	258	7	218	5	22	25	134	144	3	5	118	66	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
Heavy Vehicles, %	4	4	4	4	4	4	7	7	7	6	6	6	
Mvmt Flow	284	8	240	5	24	27	147	158	3	5	130	73	
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			1			1			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			1			2			1			
Conflicting Approach R	ightNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	1			1			1			2			
HCM Control Delay	14.4			10			15.3			12			
HCM LOS	В			А			С			В			

Lane	NBLn1	EBLn1	EBLn2\	WBLn1	SBLn1
Vol Left, %	48%	100%	0%	10%	3%
Vol Thru, %	51%	0%	3%	42%	62%
Vol Right, %	1%	0%	97%	48%	35%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	281	258	225	52	189
LT Vol	134	258	0	5	5
Through Vol	144	0	7	22	118
RT Vol	3	0	218	25	66
Lane Flow Rate	309	284	247	57	208
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.515	0.528	0.379	0.099	0.34
Departure Headway (Hd)	6.004	6.71	5.513	6.254	5.902
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Сар	599	536	650	569	606
Service Time	4.057	4.459	3.262	4.332	3.963
HCM Lane V/C Ratio	0.516	0.53	0.38	0.1	0.343
HCM Control Delay	15.3	16.8	11.6	10	12
HCM Lane LOS	С	С	В	А	В
HCM 95th-tile Q	2.9	3.1	1.8	0.3	1.5

Int Delay, s/veh	0					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	41		٦	1	Y	
Traffic Vol, veh/h	591	0	0	191	0	0
Future Vol, veh/h	591	0	0	191	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	1	1	13	13	2	2
Mvmt Flow	642	0	0	208	0	0

Major/Minor	Major	1	Ν	1ajor2		Minor1	
Conflicting Flow All		0	0	642	0	850	321
Stage 1		-	-	-	-	642	-
Stage 2		-	-	-	-	208	-
Critical Hdwy		-	-	4.295	-	6.63	6.93
Critical Hdwy Stg 1		-	-	-	-	5.83	-
Critical Hdwy Stg 2		-	-	-	-	5.43	-
Follow-up Hdwy		-	- 2	.3235	-	3.519	3.319
Pot Cap-1 Maneuver		-	-	880	-	315	675
Stage 1		-	-	-	-	487	-
Stage 2		-	-	-	-	826	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuve	r	-	-	880	-	315	675
Mov Cap-2 Maneuve	r	-	-	-	-	315	-
Stage 1		-	-	-	-	487	-
Stage 2		-	-	-	-	826	-
Approach	E	В		WB		NB	
HCM Control Delay	s	0		0		0	
HCM LOS	-	-				A	
			4	EDT			WDT
Minor Lane/Major Mv	rmt	NBL	.n1	FRI	FRK	WBL	WBI
Capacity (veh/h)			-	-	-	880	-
HCM Lane V/C Ratio			-	-	-	-	-
HCM Control Delay (	s)		0	-	-	0	-
HCM Lane LOS			А	-	-	A	-
HCM 95th %tile Q(ve	eh)		-	-	-	0	-

# HCM 6th Signalized Intersection Summary 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	1	1	1	et 🔒			्र	1		<del>4</del> )	
Traffic Volume (veh/h)	4	857	158	345	845	12	104	0	237	29	29	12
Future Volume (veh/h)	4	857	158	345	845	12	104	0	237	29	29	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1900	1900	1900
Adj Flow Rate, veh/h	4	922	170	371	909	13	112	0	255	31	31	13
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	0	0	0
Cap, veh/h	317	1001	849	399	1283	18	212	0	516	68	61	17
Arrive On Green	0.01	0.54	0.54	0.16	0.70	0.70	0.17	0.00	0.17	0.17	0.17	0.17
Sat Flow, veh/h	1753	1841	1560	1767	1825	26	888	0	1560	133	364	104
Grp Volume(v), veh/h	4	922	170	371	0	922	112	0	255	75	0	0
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1767	0	1851	888	0	1560	601	0	0
Q Serve(g s), s	0.1	51.2	6.2	16.1	0.0	32.9	0.0	0.0	14.6	2.1	0.0	0.0
Cycle Q Clear(g c), s	0.1	51.2	6.2	16.1	0.0	32.9	14.5	0.0	14.6	16.6	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00		1.00	0.41		0.17
Lane Grp Cap(c), veh/h	317	1001	849	399	0	1301	212	0	516	145	0	0
V/C Ratio(X)	0.01	0.92	0.20	0.93	0.00	0.71	0.53	0.00	0.49	0.52	0.00	0.00
Avail Cap(c´a), veh/h	402	1144	970	599	0	1316	235	0	542	170	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	12.4	23.3	13.0	33.9	0.0	9.8	44.9	0.0	29.9	44.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	11.3	0.1	12.7	0.0	1.8	0.8	0.0	0.3	1.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	22.7	2.1	11.0	0.0	11.1	3.0	0.0	5.4	2.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.4	34.6	13.2	46.6	0.0	11.7	45.6	0.0	30.2	45.2	0.0	0.0
LnGrp LOS	В	С	В	D	А	В	D	А	С	D	А	А
Approach Vol. veh/h		1096			1293			367			75	
Approach Delay, s/veh		31.2			21.7			34.9			45.2	
Approach LOS		С			С			С			D	
Timer - Assigned Phs	1	2		1	5	6		8				
The Duration (C+V+Ba) a	22.4	66.2			16	0/1		22.1				
Change Deried (VI De), s	22.4	00.3 E E		23.1	4.0	04.1		23.1				
Max Groop Sotting (Cmax)	4.0	0.0 60.5		4.0	4.0	0.0 70.5		4.0				
Max Green Setting (Griax), s	31.0	69.0 50.0		20.0	0.0	79.5		20.5				
$(g_c+11)$ , s	10.1	53.Z		0.01	2.1	34.9		0.01				
Green Ext nine (p_c), s	0.3	1.1		0.0	0.0	10.3		0.3				
Intersection Summary												
HCM 6th Ctrl Delay			27.7									
HCM 6th LOS			С									

#### Notes

User approved pedestrian interval to be less than phase max green.

Intersection								
Int Delay, s/veh	94.5							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	1	1	٦	1	٦	1		
Traffic Vol, veh/h	246	150	166	429	329	92		
Future Vol, veh/h	246	150	166	429	329	92		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	Yield	-	None	-	None		
Storage Length	-	215	190	-	0	210		
Veh in Median Storage	e, # 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	4	4	4	4	2	2		
Mvmt Flow	267	163	180	466	358	100		

Major/Minor	Major1	Μ	lajor2	ľ	Minor1			
Conflicting Flow All	0	0	267	0	1093	267		
Stage 1	-	-	-	-	267	-		
Stage 2	-	-	-	-	826	-		
Critical Hdwy	-	-	4.14	-	6.42	6.22		
Critical Hdwy Stg 1	-	-	-	-	5.42	-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
Follow-up Hdwy	-	- 2	2.236	-	3.518	3.318		
Pot Cap-1 Maneuver	-	-	1285	-	~ 237	772		
Stage 1	-	-	-	-	778	-		
Stage 2	-	-	-	-	430	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuver	-	-	1285	-	~ 204	772		
Mov Cap-2 Maneuver	-	-	-	-	~ 204	-		
Stage 1	-	-	-	-	778	-		
Stage 2	-	-	-	-	370	-		
Approach	EB		WB		NB			
HCM Control Delay, s	0		2.3	\$	313.7			
HCM LOS				•	F			
Miner Lene (Meier Mer	-1 NID	)	DL 0	EDT				
	nt ine		BLNZ	EBI	EBK	VVBL	WBI	
Capacity (veh/h)		204	112	-	-	1285	-	
HCM Lane V/C Ratio	1	.753	0.13	-	-	0.14	-	
HCM Control Delay (s)	) \$3	98.5	10.4	-	-	8.3	-	
HCM Lane LOS		+	В	-	-	A	-	
HCM 95th %tile Q(veh	) :	24.6	0.4	-	-	0.5	-	
Notes								
~: Volume exceeds ca	pacity	\$: Del	ay exc	eeds 3	00s	+: Com	outation Not Defined	d *: All major volume in platoon

Intersection				
Intersection Delay, s/veh	9.6			
Intersection LOS	А			
Approach	EB	WB	NB	
Entry Lanes	1	1	1	
Conflicting Circle Lanes	1	1	1	
Adj Approach Flow, veh/h	321	832	221	
Demand Flow Rate, veh/h	328	840	228	
Vehicles Circulating, veh/h	451	67	229	
Vehicles Exiting, veh/h	456	390	549	
Ped Vol Crossing Leg, #/h	0	0	0	
Ped Cap Adj	1.000	1.000	1.000	
Approach Delay, s/veh	8.6	11.2	5.3	
Approach LOS	А	В	А	
Lane	Left	Left	Left	
Designated Moves	TR	LT	LR	
Assumed Moves	TR	LT	LR	
RT Channelized				
Lane Util	1.000	1.000	1.000	
Follow-Up Headway, s	2.609	2.609	2.609	
Critical Headway, s	4.976	4.976	4.976	
Entry Flow, veh/h	328	840	228	
Cap Entry Lane, veh/h	871	1289	1092	
Entry HV Adj Factor	0.980	0.991	0.969	
Flow Entry, veh/h	321	832	221	
Cap Entry, veh/h	854	1277	1059	
V/C Ratio	0.377	0.652	0.209	
Control Delay, s/veh	8.6	11.2	5.3	
LOS	А	В	А	
95th %tile Queue, veh	2	5	1	

Intersection Delay, s/veh29.2 Intersection LOS D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1			4			4			4		
Traffic Vol, veh/h	100	12	166	1	21	17	317	146	6	32	153	272	
Future Vol, veh/h	100	12	166	1	21	17	317	146	6	32	153	272	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2	
Mvmt Flow	111	13	184	1	23	19	352	162	7	36	170	302	
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			1			1			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			1			2			1			
Conflicting Approach Ri	ightNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	1			1			1			2			
HCM Control Delay	13.6			11.7			40			29			
HCM LOS	В			В			Е			D			

Lane	NBLn1	EBLn1	EBLn2V	VBLn1	SBLn1
Vol Left, %	68%	100%	0%	3%	7%
Vol Thru, %	31%	0%	7%	54%	33%
Vol Right, %	1%	0%	93%	44%	60%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	469	100	178	39	457
LT Vol	317	100	0	1	32
Through Vol	146	0	12	21	153
RT Vol	6	0	166	17	272
Lane Flow Rate	521	111	198	43	508
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.89	0.248	0.377	0.094	0.812
Departure Headway (Hd)	6.149	8.049	6.862	7.775	5.758
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Сар	589	447	524	459	630
Service Time	4.19	5.8	4.613	5.855	3.8
HCM Lane V/C Ratio	0.885	0.248	0.378	0.094	0.806
HCM Control Delay	40	13.5	13.7	11.7	29
HCM Lane LOS	E	В	В	В	D
HCM 95th-tile Q	10.5	1	1.7	0.3	8.3

0					
EBT	EBR	WBL	WBT	NBL	NBR
<b>≜</b> ↑₽		٦	1	Y	
338	0	0	595	0	0
338	0	0	595	0	0
0	0	0	0	0	0
Free	Free	Free	Free	Stop	Stop
-	None	-	None	-	None
-	-	100	-	0	-
,# 0	-	-	0	0	-
0	-	-	0	0	-
92	92	92	92	92	92
4	4	4	4	2	2
367	0	0	647	0	0
	0 EBT 338 338 0 Free - ,# 0 0 92 4 367	0 EBT EBR 338 0 338 0 338 0 0 0 Free Free - None - None  # 0 - 0 - 92 92 4 4 367 0	0   EBT EBR WBL   1 1 1   338 0 0   338 0 0   338 0 0   338 0 0   338 0 0   338 0 0   0 0 0   Free Free Free   None -   0 - 100   ,# 0 - -   92 92 92   4 4 4   367 0 0	0 WBL WBL   11 EBR WBL WBL   11 1 1 1   338 0 0 595   338 0 0 595   338 0 0 595   0 0 0 595   0 0 0 60   Free Free Free Free   0 0 0 0   4 0 0 0   92 92 92 92   4 4 4 4   367 0 0 647	BT EBR WBL WBT NBL   ↑↑ ↑ ↑ ↑ ↑   338 0 0 595 0   338 0 0 595 0   338 0 0 595 0   338 0 0 595 0   338 0 0 0 0   0 0 0 0 0   Free Free Free Stop -   - 1000 - 0 0   0 - 100 - 0   # 0 - 0 0   92 92 92 92 92   4 4 4 4 2   367 0 0 647 0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	367	0	1014	184
Stage 1	-	-	-	-	367	-
Stage 2	-	-	-	-	647	-
Critical Hdwy	-	-	4.16	-	6.63	6.93
Critical Hdwy Stg 1	-	-	-	-	5.83	-
Critical Hdwy Stg 2	-	-	-	-	5.43	-
Follow-up Hdwy	-	-	2.238	-	3.519	3.319
Pot Cap-1 Maneuver	-	-	1177	-	249	828
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	520	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuve	r -	-	1177	-	249	828
Mov Cap-2 Maneuve	r -	-	-	-	249	-
Stage 1	-	-	-	-	672	-
Stage 2	-	-	-	-	520	-
Approach	EB		WB		NB	
HCM Control Delay,	s 0		0		0	
HCM LOS					А	
Minor Lane/Major Mv	mt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		-	-	-	1177	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s	s)	0	-	-	0	-
HCM Lane LOS	,	A	-	-	А	-
HCM 95th %tile Q(ve	h)	-	-	-	0	-

# HCM 6th Signalized Intersection Summary 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	1	1	7	4			्स	1		\$	
Traffic Volume (veh/h)	8	797	164	130	607	0	82	4	329	4	0	0
Future Volume (veh/h)	8	797	164	130	607	0	82	4	329	4	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1767	1767	1767	1663	1663	1663	1796	1796	1796	1530	1530	1530
Adj Flow Rate, veh/h	8	830	171	135	632	0	85	4	343	4	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	9	9	9	16	16	16	7	7	7	25	25	25
Cap, veh/h	356	955	809	246	978	0	403	17	442	248	0	0
Arrive On Green	0.01	0.54	0.54	0.06	0.59	0.00	0.23	0.23	0.23	0.23	0.00	0.00
Sat Flow, veh/h	1682	1767	1497	1584	1663	0	1370	73	1522	693	0	0
Grp Volume(v), veh/h	8	830	171	135	632	0	89	0	343	4	0	0
Grp Sat Flow(s),veh/h/ln	1682	1767	1497	1584	1663	0	1443	0	1522	693	0	0
Q Serve(g_s), s	0.2	33.7	4.9	2.9	20.9	0.0	0.0	0.0	17.1	0.3	0.0	0.0
Cycle Q Clear(g_c), s	0.2	33.7	4.9	2.9	20.9	0.0	3.5	0.0	17.1	3.8	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.96		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	356	955	809	246	978	0	420	0	442	248	0	0
V/C Ratio(X)	0.02	0.87	0.21	0.55	0.65	0.00	0.21	0.00	0.78	0.02	0.00	0.00
Avail Cap(c_a), veh/h	461	1484	1258	747	1598	0	442	0	465	261	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	10.1	16.5	9.9	16.9	11.3	0.0	25.7	0.0	26.9	27.2	0.0	0.0
Incr Delay (d2), s/veh	0.0	4.1	0.2	0.7	0.9	0.0	0.1	0.0	6.9	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	12.0	1.4	1.2	6.2	0.0	1.4	0.0	6.7	0.1	0.0	0.0
Unsig. Movement Delay, s/veh	l											
LnGrp Delay(d),s/veh	10.1	20.5	10.0	17.6	12.2	0.0	25.8	0.0	33.8	27.3	0.0	0.0
LnGrp LOS	В	С	В	В	В	А	С	А	С	С	А	А
Approach Vol, veh/h		1009			767			432			4	
Approach Delay, s/veh		18.7			13.1			32.1			27.3	
Approach LOS		В			В			С			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.8	50.2		23.7	4.8	54.2		23.7				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+l1), s	4.9	35.7		5.8	2.2	22.9		19.1				
Green Ext Time (p_c), s	0.1	9.1		0.0	0.0	5.6		0.1				
Intersection Summary												
HCM 6th Ctrl Delay			19.4									
HCM 6th LOS			В									

#### Notes

User approved pedestrian interval to be less than phase max green.

Int Delay s/veh

Int Delay, s/veh	5.3								
Movement	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations	1	1	٦	1	1	1			
Traffic Vol, veh/h	511	329	65	134	156	104			
Future Vol, veh/h	511	329	65	134	156	104			
Conflicting Peds, #/hr	0	0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Stop	Stop			
RT Channelized	-	Yield	-	None	-	None			
Storage Length	-	215	190	-	0	210			
Veh in Median Storage	e,#0	-	-	0	0	-			
Grade, %	0	-	-	0	0	-			
Peak Hour Factor	93	93	93	93	93	93			
Heavy Vehicles, %	1	1	13	13	15	15			
Mvmt Flow	549	354	70	144	168	112			

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0 549	0 833	549	
Stage 1	-		- 549	-	
Stage 2	-		- 284	-	
Critical Hdwy	-	- 4.23	- 6.55	6.35	
Critical Hdwy Stg 1	-		- 5.55	-	
Critical Hdwy Stg 2	-		- 5.55	-	
Follow-up Hdwy	-	- 2.317	- 3.635	3.435	
Pot Cap-1 Maneuver	-	- 968	- 322	511	
Stage 1	-		- 553	-	
Stage 2	-		- 735	-	
Platoon blocked, %	-	-	-		
Mov Cap-1 Maneuver	· -	- 968	- 299	511	
Mov Cap-2 Maneuver	· -		- 299	-	
Stage 1	-		- 553	-	
Stage 2	-		- 682	-	
Approach	FB	WB	NB		

Approach	EB	WB	NB
HCM Control Delay, s	0	2.9	24.4
HCM LOS			С

Minor Lane/Major Mvmt	NBLn11	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	299	511	-	-	968	-
HCM Lane V/C Ratio	0.561	0.219	-	-	0.072	-
HCM Control Delay (s)	31.4	14	-	-	9	-
HCM Lane LOS	D	В	-	-	А	-
HCM 95th %tile Q(veh)	3.2	0.8	-	-	0.2	-

Intersection				
Intersection Delay, s/veh	9.9			
Intersection LOS	А			
Approach	EB	WB	NB	
Entry Lanes	1	1	1	
Conflicting Circle Lanes	1	1	1	
Adj Approach Flow, veh/h	539	319	557	
Demand Flow Rate, veh/h	550	322	563	
Vehicles Circulating, veh/h	111	63	458	
Vehicles Exiting, veh/h	274	958	203	
Ped Vol Crossing Leg, #/h	0	0	0	
Ped Cap Adj	1.000	1.000	1.000	
Approach Delay, s/veh	7.6	5.0	15.0	
Approach LOS	А	А	В	
Lane	Left	Left	Left	
Designated Moves	TR	LT	LR	
Assumed Moves	TR	LT	LR	
RT Channelized				
Lane Util	1.000	1.000	1.000	
Follow-Up Headway, s	2.609	2.609	2.609	
Critical Headway, s	4.976	4.976	4.976	
Entry Flow, veh/h	550	322	563	
Cap Entry Lane, veh/h	1232	1294	865	
Entry HV Adj Factor	0.980	0.990	0.989	
Flow Entry, veh/h	539	319	557	
Cap Entry, veh/h	1208	1282	856	
V/C Ratio	0.446	0.249	0.651	
Control Delay, s/veh	7.6	5.0	15.0	
LOS	А	А	В	
95th %tile Queue, veh	2	1	5	

Intersection Delay, s/veh14.7 Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1.			4			4			4		
Traffic Vol, veh/h	268	7	227	5	23	26	139	150	3	5	123	69	
Future Vol, veh/h	268	7	227	5	23	26	139	150	3	5	123	69	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
Heavy Vehicles, %	4	4	4	4	4	4	7	7	7	6	6	6	
Mvmt Flow	295	8	249	5	25	29	153	165	3	5	135	76	
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			1			1			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			1			2			1			
Conflicting Approach R	ighNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	: 1			1			1			2			
HCM Control Delay	15.1			10.2			16.2			12.5			
HCM LOS	С			В			С			В			

Lane	NBLn1	EBLn1	EBLn2V	VBLn1	SBLn1
Vol Left, %	48%	100%	0%	9%	3%
Vol Thru, %	51%	0%	3%	43%	62%
Vol Right, %	1%	0%	97%	48%	35%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	292	268	234	54	197
LT Vol	139	268	0	5	5
Through Vol	150	0	7	23	123
RT Vol	3	0	227	26	69
Lane Flow Rate	321	295	257	59	216
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.543	0.556	0.4	0.105	0.361
Departure Headway (Hd)	6.089	6.794	5.596	6.387	5.999
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Сар	590	530	640	557	597
Service Time	4.15	4.553	3.354	4.48	4.068
HCM Lane V/C Ratio	0.544	0.557	0.402	0.106	0.362
HCM Control Delay	16.2	17.8	12.1	10.2	12.5
HCM Lane LOS	С	С	В	В	В
HCM 95th-tile Q	3.2	3.4	1.9	0.3	1.6

0						
EBT	EBR	WBL	WBT	NBL	NBR	
14		٦	1	Y		
615	0	0	199	0	0	
615	0	0	199	0	0	
0	0	0	0	0	0	
Free	Free	Free	Free	Stop	Stop	
-	None	-	None	-	None	
-	-	100	-	0	-	
,# 0	-	-	0	0	-	
0	-	-	0	0	-	
92	92	92	92	92	92	
1	1	13	13	2	2	
668	0	0	216	0	0	
	0 EBT 615 615 0 Free - ,# 0 0 92 1 668	0 EBT EBR 615 0 615 0 615 0 0 0 Free Free - None - None  , # 0 - 0 - 92 92 1 1 668 0	0 EBT EBR WBL ↑↑ 0 0 615 0 0 615 0 0 0 0 0 Free Free Free - None - 100 , # 0 - 92 92 92 1 1 13 668 0 0	0 WBL WBT   €BT EBR WBL WBT   ↑↑ ↑ ↑   615 0 0 199   615 0 0 199   615 0 0 199   0 0 0 0   Free Free Free Free   None - None   - 100 -   ,# 0 - - 0   92 92 92 92   1 13 13 13   668 0 0 216	0 WBL WBT NBL   ▲▲ ▲▲ ▲▲ ▲▲ ▲▲   ▲▲ ▲▲ ▲▲ ▲▲ ▲▲   ▲▲ ▲▲ ▲▲ ▲▲ ▲▲   ▲▲ ▲▲ ■▲ ■▲ ■▲   ▲▲ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ ●■ ●■ ●■ ●■   ●■ <	0   EBT EBR WBL WBT NBL NBR   ↑↑ ↑ ↑ ↑ ↑ ↑   615 0 0 199 0 0   615 0 0 199 0 0   615 0 0 199 0 0   615 0 0 199 0 0   615 0 0 199 0 0   615 0 0 199 0 0   615 0 0 0 0 0 0   0 0 0 0 0 0 0 0   Free Free Free None - None - None   ,# 0 - - 0 0 - - -   ,# 0 - - 0 0 - - - - - -<

Major/Minor	Major	·1	Ν	lajor2		Minor1	
Conflicting Flow All	•	0	0	668	0	884	334
Stage 1		-	-	-	-	668	-
Stage 2		-	-	-	-	216	-
Critical Hdwy		-	-	4.295	-	6.63	6.93
Critical Hdwy Stg 1		-	-	-	-	5.83	-
Critical Hdwy Stg 2		-	-	-	-	5.43	-
Follow-up Hdwy		-	- 2	.3235	-	3.519	3.319
Pot Cap-1 Maneuver		-	-	860	-	300	663
Stage 1		-	-	-	-	472	-
Stage 2		-	-	-	-	819	-
Platoon blocked, %		-	-		-		
Mov Cap-1 Maneuver	•	-	-	860	-	300	663
Mov Cap-2 Maneuver	•	-	-	-	-	300	-
Stage 1		-	-	-	-	472	-
Stage 2		-	-	-	-	819	-
Approach	E	В		WB		NB	
HCM Control Delay, s	5	0		0		0	
HCM LOS						А	
Minor Long/Major My	mt	NRI	n1	EDT	EDD	\//RI	\// <b>D</b> T
Capacity (yeh/h)			_111		LDIX	060	101
			-	-	-	000	-
HCM Control Doloy (	•1		-	-	-	-	-
HCM Long LOS	>)		۰ ۱	-	-	U	-
HCM 95th %tile O(vol	h)		-	-	-	А 0	-
	n)		-	-	-	0	-

# HCM 6th Signalized Intersection Summary 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	1	1	1	et 🔒			्र	1		<b>4</b> >	
Traffic Volume (veh/h)	4	892	164	359	879	12	108	0	247	30	30	12
Future Volume (veh/h)	4	892	164	359	879	12	108	0	247	30	30	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1900	1900	1900
Adj Flow Rate, veh/h	4	959	176	386	945	13	116	0	266	32	32	13
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	0	0	0
Cap, veh/h	311	991	840	410	1320	18	186	0	548	52	46	12
Arrive On Green	0.01	0.54	0.54	0.19	0.72	0.72	0.16	0.00	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1753	1841	1560	1767	1826	25	803	0	1560	74	283	73
Grp Volume(v), veh/h	4	959	176	386	0	958	116	0	266	77	0	0
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1767	0	1851	803	0	1560	430	0	0
Q Serve(g s), s	0.1	63.8	7.5	21.9	0.0	37.7	0.0	0.0	16.9	2.5	0.0	0.0
Cycle Q Clear(q c), s	0.1	63.8	7.5	21.9	0.0	37.7	18.0	0.0	16.9	20.5	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00		1.00	0.42		0.17
Lane Grp Cap(c), veh/h	311	991	840	410	0	1338	186	0	548	110	0	0
V/C Ratio(X)	0.01	0.97	0.21	0.94	0.00	0.72	0.62	0.00	0.49	0.70	0.00	0.00
Avail Cap(c a), veh/h	385	1008	854	506	0	1338	186	0	548	110	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	14.1	28.3	15.3	42.0	0.0	10.1	52.2	0.0	32.2	52.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	20.8	0.1	21.7	0.0	1.9	4.7	0.0	0.2	15.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	31.2	2.6	14.1	0.0	13.0	3.8	0.0	6.4	3.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delav(d),s/veh	14.1	49.1	15.4	63.7	0.0	12.0	56.9	0.0	32.4	68.7	0.0	0.0
LnGrp LOS	В	D	В	Е	А	В	E	А	С	E	А	А
Approach Vol. veh/h		1139			1344			382			77	
Approach Delay, s/veh		43.8			26.9			39.9			68.7	
Approach LOS		D			C			D			E	
Timer Assisted Dhe	4	-		4	-	0		-			_	
Timer - Assigned Phs	1	70.0		4	5	07.0		8				
Phs Duration (G+Y+Rc), s	28.1	73.8		25.0	4./	97.3		25.0				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (g_c+11), s	23.9	65.8		22.5	2.1	39.7		20.0				
Green Ext Time (p_c), s	0.2	2.6		0.0	0.0	10.8		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			36.2									
HCM 6th LOS			D									

#### Notes

User approved pedestrian interval to be less than phase max green.
Int Delay, s/veh 115.8 Movement EBT EBR WBL WB

Movement	EBI	EBK	VVBL	<b>VVBI</b>	INBL	NBR	
Lane Configurations	1	1	٦	1	1	1	
Traffic Vol, veh/h	256	156	173	446	342	96	
Future Vol, veh/h	256	156	173	446	342	96	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	Yield	-	None	-	None	
Storage Length	-	215	190	-	0	210	
Veh in Median Storage,	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	4	4	4	4	2	2	
M∨mt Flow	278	170	188	485	372	104	

Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0 278	0 1139	278		
Stage 1	-		- 278	-		
Stage 2	-		- 861	-		
Critical Hdwy	-	- 4.14	- 6.42	6.22		
Critical Hdwy Stg 1	-		- 5.42	-		
Critical Hdwy Stg 2	-		- 5.42	-		
Follow-up Hdwy	-	- 2.236	- 3.518	3.318		
Pot Cap-1 Maneuver	-	- 1273	- ~ 223	761		
Stage 1	-		- 769	-		
Stage 2	-		- 414	-		
Platoon blocked, %	-	-	-			
Mov Cap-1 Maneuver	-	- 1273	- ~ 190	761		
Mov Cap-2 Maneuver	-		- ~190	-		
Stage 1	-		- 769	-		
Stage 2	-		- ~353	-		
Approach	EB	WB	NB			
HCM Control Delay, s	0	23	\$ 385 1			
HCM LOS	-		F			
N 41 1 (N 4 1 N 4					MDT	
Minor Lane/Major Mvn	nt NBL		ERI ERK	WBL	WBI	
Capacity (veh/h)	1	90 761		1273	-	
HCM Lane V/C Ratio	1.9	0.137		0.148	-	
HCM Control Delay (s	) \$49	0.2 10.5		8.3	-	
HCM Lane LOS		F B		Α	-	
HCM 95th %tile Q(veh	ı) 2	7.7 0.5		0.5	-	
Notes						
~: Volume exceeds ca	pacity \$	: Delay exc	eeds 300s	+: Com	putation Not Defined	*: All major volume in platoon

Intersection				
Intersection Delay, s/veh	10.3			
Intersection LOS	В			
Approach	EB	WB	NB	
Entry Lanes	1	1	1	
Conflicting Circle Lanes	1	1	1	
Adj Approach Flow, veh/h	334	866	231	
Demand Flow Rate, veh/h	341	875	238	
Vehicles Circulating, veh/h	470	70	239	
Vehicles Exiting, veh/h	475	407	572	
Ped Vol Crossing Leg, #/h	0	0	0	
Ped Cap Adj	1.000	1.000	1.000	
Approach Delay, s/veh	9.1	12.0	5.5	
Approach LOS	А	В	А	
Lane	Left	Left	Left	
Designated Moves	TR	LT	LR	
Assumed Moves	TR	LT	LR	
RT Channelized				
Lane Util	1.000	1.000	1.000	
Follow-Up Headway, s	2.609	2.609	2.609	
Critical Headway, s	4.976	4.976	4.976	
Entry Flow, veh/h	341	875	238	
Cap Entry Lane, veh/h	854	1285	1081	
Entry HV Adj Factor	0.980	0.990	0.971	
Flow Entry, veh/h	334	866	231	
Cap Entry, veh/h	838	1272	1050	
V/C Ratio	0.399	0.681	0.220	
Control Delay, s/veh	9.1	12.0	5.5	
LOS	А	В	А	
95th %tile Queue, veh	2	6	1	

Intersection Delay, s/veh35.8 Intersection LOS E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1			4			4			\$		
Traffic Vol, veh/h	104	12	173	1	22	18	330	152	6	33	159	283	
Future Vol, veh/h	104	12	173	1	22	18	330	152	6	33	159	283	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2	
Mvmt Flow	116	13	192	1	24	20	367	169	7	37	177	314	
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			1			1			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			1			2			1			
Conflicting Approach R	ightNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	1			1			1			2			
HCM Control Delay	14.3			12.1			50.7			35.5			
HCM LOS	В			В			F			Е			

Lane	NBLn1	EBLn1	EBLn2V	VBLn1	SBLn1
Vol Left, %	68%	100%	0%	2%	7%
Vol Thru, %	31%	0%	6%	54%	33%
Vol Right, %	1%	0%	94%	44%	60%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	488	104	185	41	475
LT Vol	330	104	0	1	33
Through Vol	152	0	12	22	159
RT Vol	6	0	173	18	283
Lane Flow Rate	542	116	206	46	528
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.947	0.264	0.401	0.103	0.865
Departure Headway (Hd)	6.286	8.215	7.025	8.145	5.901
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Сар	575	437	512	443	612
Service Time	4.339	5.978	4.787	6.145	3.954
HCM Lane V/C Ratio	0.943	0.265	0.402	0.104	0.863
HCM Control Delay	50.7	13.9	14.5	12.1	35.5
HCM Lane LOS	F	В	В	В	E
HCM 95th-tile Q	12.4	1	1.9	0.3	9.8

Int Delay, s/veh	0							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	14		٦	1	Y			
Traffic Vol, veh/h	352	0	0	619	0	0		
Future Vol, veh/h	352	0	0	619	0	0		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	-	100	-	0	-		
Veh in Median Storage	,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	4	4	4	4	2	2		
Mvmt Flow	383	0	0	673	0	0		

Major/Minor	Major1	ſ	Major2		Minor1		
Conflicting Flow All	0	0	383	0	1056	192	
Stage 1	-	-	-	-	383	-	
Stage 2	-	-	-	-	673	-	
Critical Hdwy	-	-	4.16	-	6.63	6.93	
Critical Hdwy Stg 1	-	-	-	-	5.83	-	
Critical Hdwy Stg 2	-	-	-	-	5.43	-	
Follow-up Hdwy	-	-	2.238	-	3.519	3.319	
Pot Cap-1 Maneuver	-	-	1161	-	235	818	
Stage 1	-	-	-	-	660	-	
Stage 2	-	-	-	-	506	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuve	r -	-	1161	-	235	818	
Mov Cap-2 Maneuve	r -	-	-	-	235	-	
Stage 1	-	-	-	-	660	-	
Stage 2	-	-	-	-	506	-	
Approach	EB		WB		NB		
HCM Control Delay, s	s 0		0		0		
HCM LOS					А		
Minor Lane/Major Mv	mt N	VBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		-	-	-	1161	-	
HCM Lane V/C Ratio		-	-	-	-	-	
HCM Control Delay (s	s)	0	-	-	0	-	
HCM Lane LOS	,	A	-	-	A	-	
HCM 95th %tile Q(ve	h)	-	-	-	0	-	

# HCM 6th Signalized Intersection Summary 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	1	1	7	4			्र	1		\$	
Traffic Volume (veh/h)	8	797	186	149	607	0	85	4	332	4	0	0
Future Volume (veh/h)	8	797	186	149	607	0	85	4	332	4	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1767	1767	1767	1663	1663	1663	1796	1796	1796	1530	1530	1530
Adj Flow Rate, veh/h	8	830	194	155	632	0	89	4	346	4	0	0
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	9	9	9	16	16	16	7	7	7	25	25	25
Cap, veh/h	360	953	808	250	986	0	402	16	450	243	0	0
Arrive On Green	0.01	0.54	0.54	0.06	0.59	0.00	0.23	0.23	0.23	0.23	0.00	0.00
Sat Flow, veh/h	1682	1767	1497	1584	1663	0	1376	70	1522	683	0	0
Grp Volume(v), veh/h	8	830	194	155	632	0	93	0	346	4	0	0
Grp Sat Flow(s),veh/h/ln	1682	1767	1497	1584	1663	0	1446	0	1522	683	0	0
Q Serve(g_s), s	0.2	34.6	5.8	3.4	21.2	0.0	0.0	0.0	17.6	0.3	0.0	0.0
Cycle Q Clear(g_c), s	0.2	34.6	5.8	3.4	21.2	0.0	3.7	0.0	17.6	4.1	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	0.96		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	360	953	808	250	986	0	418	0	450	243	0	0
V/C Ratio(X)	0.02	0.87	0.24	0.62	0.64	0.00	0.22	0.00	0.77	0.02	0.00	0.00
Avail Cap(c_a), veh/h	462	1447	1227	728	1558	0	432	0	465	252	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	10.3	17.0	10.3	17.7	11.3	0.0	26.5	0.0	27.2	28.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	4.4	0.2	0.9	0.8	0.0	0.1	0.0	6.6	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	12.6	1.7	1.6	6.4	0.0	1.5	0.0	6.9	0.1	0.0	0.0
Unsig. Movement Delay, s/veh	l											
LnGrp Delay(d),s/veh	10.3	21.4	10.5	18.6	12.2	0.0	26.6	0.0	33.9	28.1	0.0	0.0
LnGrp LOS	В	С	В	В	В	А	С	А	С	С	А	А
Approach Vol, veh/h		1032			787			439			4	
Approach Delay, s/veh		19.2			13.4			32.3			28.1	
Approach LOS		В			В			С			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.4	51.3		24.2	4.9	55.8		24.2				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax) s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (q. $c+11$ ) s	54	36.6		61	22	23.2		19.6				
Green Ext Time (n_c) s	0.1	91		0.0	0.0	5.6		0.1				
				0.0	0.0	5.0						
			40.0									
HCM 6th Ctrl Delay			19.8									
HCM 6th LOS			В									

#### Notes

User approved pedestrian interval to be less than phase max green.

Int Delay, s/veh	5.8							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	1	۲	٦	1	٦	1		
Traffic Vol, veh/h	522	329	68	135	156	127		
Future Vol, veh/h	522	329	68	135	156	127		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	Yield	-	None	-	None		
Storage Length	-	215	190	-	0	210		
Veh in Median Storage	e, # 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	93	93	93	93	93	93		
Heavy Vehicles, %	1	1	13	13	15	15		
Mvmt Flow	561	354	73	145	168	137		

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0 561	0 852	561	
Stage 1	-		- 561	-	
Stage 2	-		- 291	-	
Critical Hdwy	-	- 4.23	- 6.55	6.35	
Critical Hdwy Stg 1	-		- 5.55	-	
Critical Hdwy Stg 2	-		- 5.55	-	
Follow-up Hdwy	-	- 2.317	- 3.635	3.435	
Pot Cap-1 Maneuver	-	- 958	- 313	503	
Stage 1	-		- 546	-	
Stage 2	-		- 730	-	
Platoon blocked, %	-	-	-		
Mov Cap-1 Maneuver	· -	- 958	- 289	503	
Mov Cap-2 Maneuver	• -		- 289	-	
Stage 1	-		- 546	-	
Stage 2	-		- 675	-	

Approach	EB	WB	NB	
HCM Control Delay, s	0	3	25.1	
HCM LOS			D	

Minor Lane/Major Mvmt	NBLn11	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	289	503	-	-	958	-
HCM Lane V/C Ratio	0.58	0.271	-	-	0.076	-
HCM Control Delay (s)	33.4	14.8	-	-	9.1	-
HCM Lane LOS	D	В	-	-	А	-
HCM 95th %tile Q(veh)	3.4	1.1	-	-	0.2	-

Intersection				
Intersection Delay, s/veh	10.1			
Intersection LOS	В			
Approach	EB	WB	NB	
Entry Lanes	1	1	1	
Conflicting Circle Lanes	1	1	1	
Adj Approach Flow, veh/h	539	320	569	
Demand Flow Rate, veh/h	550	323	575	
Vehicles Circulating, veh/h	112	63	458	
Vehicles Exiting, veh/h	274	970	204	
Ped Vol Crossing Leg, #/h	0	0	0	
Ped Cap Adj	1.000	1.000	1.000	
Approach Delay, s/veh	7.6	5.0	15.5	
Approach LOS	А	А	C	
Lane	Left	Left	Left	
Designated Moves	TR	LT	LR	
Assumed Moves	TR	LT	LR	
RT Channelized				
Lane Util	1.000	1.000	1.000	
Follow-Up Headway, s	2.609	2.609	2.609	
Critical Headway, s	4.976	4.976	4.976	
Entry Flow, veh/h	550	323	575	
Cap Entry Lane, veh/h	1231	1294	865	
Entry HV Adj Factor	0.980	0.990	0.990	
Flow Entry, veh/h	539	320	569	
Cap Entry, veh/h	1206	1282	856	
V/C Ratio	0.447	0.250	0.665	
Control Delay, s/veh	7.6	5.0	15.5	
LOS	А	А	С	
95th %tile Queue, veh	2	1	5	

Intersection Delay, s/veh 15 Intersection LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	4			4			4			4		
Traffic Vol, veh/h	279	7	227	5	23	26	139	150	3	5	123	70	
Future Vol, veh/h	279	7	227	5	23	26	139	150	3	5	123	70	
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
Heavy Vehicles, %	4	4	4	4	4	4	7	7	7	6	6	6	
Mvmt Flow	307	8	249	5	25	29	153	165	3	5	135	77	
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			1			1			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			1			2			1			
Conflicting Approach R	ightNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	1			1			1			2			
HCM Control Delay	15.6			10.3			16.4			12.6			
HCM LOS	С			В			С			В			

Lane	NBLn1	EBLn1	EBLn2V	VBLn1	SBLn1
Vol Left, %	48%	100%	0%	9%	3%
Vol Thru, %	51%	0%	3%	43%	62%
Vol Right, %	1%	0%	97%	48%	35%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	292	279	234	54	198
LT Vol	139	279	0	5	5
Through Vol	150	0	7	23	123
RT Vol	3	0	227	26	70
Lane Flow Rate	321	307	257	59	218
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.546	0.58	0.401	0.106	0.365
Departure Headway (Hd)	6.126	6.807	5.609	6.424	6.034
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Сар	587	530	640	553	594
Service Time	4.188	4.566	3.367	4.517	4.104
HCM Lane V/C Ratio	0.547	0.579	0.402	0.107	0.367
HCM Control Delay	16.4	18.6	12.1	10.3	12.6
HCM Lane LOS	С	С	В	В	В
HCM 95th-tile Q	3.3	3.7	1.9	0.4	1.7

Int Delay, s/veh

0.6					
EBT	EBR	WBL	WBT	NBL	NBR
₼₽		٦	1	Y	
615	34	41	199	4	6
615	34	41	199	4	6
0	0	0	0	0	0
Free	Free	Free	Free	Stop	Stop
-	None	-	None	-	None
-	-	100	-	0	-
# 0	-	-	0	0	-
0	-	-	0	0	-
92	92	92	92	92	92
1	1	13	13	2	2
668	37	45	216	4	7
	0.6 EBT 615 615 0 Free - # 0 0 92 1 668	0.6 EBT EBR 415 34 615 34 615 34 0 0 Free Free - None - None  # 0 - 0 - 92 92 1 1 668 37	0.6 EBT EBR WBL ↑↑  534 41 615 34 41 615 34 41 0 0 0 Free Free Free None - 100 # 0 - 100 # 0 - 92 92 92 1 1 13 668 37 45	0.6         WBL         WBT           EBR         WBL         WBT           1         T         1           615         34         41         199           615         34         41         199           615         34         41         199           0         0         0         0           Free         Free         Free         Free           None         -         None           -         100         -         -           #0         -         100         -           #0         -         0         0         -           #0         -         100         -         -           #0         -         0         0         -           #0         -         0         0         -           #0         -         100         -         -           #0         -         0         0         -           #10         13         13         13         -           #11         13         145         216	0.6         WBL         WBT         NBL <b>EBR</b> WBL         WBT         NBL <b>11 1 1 1</b> 615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           615         34         41         199         4           616         7         100         0         0           7         7         100         7         0         0           8         92         92         92         92         92         1           94         13         13         13         2         1<

Major/Minor	Major1	I	Major2	1	Minor1		
Conflicting Flow All	0	0	705	0	993	353	
Stage 1	-	-	-	-	687	-	
Stage 2	-	-	-	-	306	-	
Critical Hdwy	-	-	4.295	-	6.63	6.93	
Critical Hdwy Stg 1	-	-	-	-	5.83	-	
Critical Hdwy Stg 2	-	-	-	-	5.43	-	
Follow-up Hdwy	-	-2	2.3235	-	3.519	3.319	
Pot Cap-1 Maneuver	-	-	832	-	257	644	
Stage 1	-	-	-	-	462	-	
Stage 2	-	-	-	-	746	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver		-	832	-	243	644	
Mov Cap-2 Maneuver	· -	-	-	-	243	-	
Stage 1	-	-	-	-	462	-	
Stage 2	-	-	-	-	706	-	
Approach	EB		WB		NB		
HCM Control Delay	<u> </u>		16		14.5		
HCM LOS	, 0		1.0		. 1.0 B		
					5		
Minor Lane/Major Mvi	mt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)		388	-	-	832	-	

	000		002	
HCM Lane V/C Ratio	0.028	-	- 0.054	-
HCM Control Delay (s)	14.5	-	- 9.6	-
HCM Lane LOS	В	-	- A	-
HCM 95th %tile Q(veh)	0.1	-	- 0.2	_

# HCM 6th Signalized Intersection Summary 1: SW Oregon Road & SW Tualatin-Sherwood Road

05/28/2021

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	1	1	1	et 🔒			्र	1		\$	
Traffic Volume (veh/h)	4	892	167	362	879	12	128	0	263	30	30	12
Future Volume (veh/h)	4	892	167	362	879	12	128	0	263	30	30	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1900	1900	1900
Adj Flow Rate, veh/h	4	959	180	389	945	13	138	0	283	32	32	13
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	0	0	0
Cap, veh/h	9	989	838	413	1323	18	185	0	551	40	34	7
Arrive On Green	0.01	0.54	0.54	0.19	0.72	0.72	0.16	0.00	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1753	1841	1560	1767	1826	25	803	0	1560	0	209	43
Grp Volume(v), veh/h	4	959	180	389	0	958	138	0	283	77	0	0
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1767	0	1851	803	0	1560	252	0	0
Q Serve(g_s), s	0.3	64.2	7.7	22.3	0.0	37.7	0.0	0.0	18.3	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.3	64.2	7.7	22.3	0.0	37.7	20.5	0.0	18.3	20.5	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.01	1.00		1.00	0.42		0.17
Lane Grp Cap(c), veh/h	9	989	838	413	0	1341	185	0	551	80	0	0
V/C Ratio(X)	0.44	0.97	0.21	0.94	0.00	0.71	0.74	0.00	0.51	0.96	0.00	0.00
Avail Cap(c_a), veh/h	82	1003	850	502	0	1341	185	0	551	80	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	63.3	28.5	15.4	42.3	0.0	10.0	54.2	0.0	32.6	53.7	0.0	0.0
Incr Delay (d2), s/veh	11.9	21.3	0.2	22.3	0.0	1.9	13.4	0.0	0.4	85.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	31.6	2.6	14.3	0.0	13.0	5.1	0.0	6.9	4.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	75.2	49.9	15.6	64.6	0.0	12.0	67.6	0.0	33.0	138.8	0.0	0.0
LnGrp LOS	Е	D	В	Е	А	В	Е	А	С	F	А	A
Approach Vol, veh/h		1143			1347			421			77	
Approach Delay, s/veh		44.6			27.2			44.3			138.8	
Approach LOS		D			С			D			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	28.5	74.0		25.0	4.7	97.9		25.0				
Change Period (Y+Rc), s	4.0	5.5		4.5	4.0	5.5		4.5				
Max Green Setting (Gmax), s	31.0	69.5		20.5	6.0	79.5		20.5				
Max Q Clear Time (q. c+l1), s	24.3	66.2		22.5	2.3	39.7		22.5				
Green Ext Time (p_c), s	0.2	2.3		0.0	0.0	10.8		0.0				
Intersection Summary												
			20.4									
			39.1									
			U									

#### Notes

User approved pedestrian interval to be less than phase max green.

05/28/2021
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Intersection							
Intersection Delay, s/ve	h13.8						
Intersection LOS	В						
A I		<b>F</b> D					
Approach		EB		WB		NB	
Entry Lanes		1		1		1	
Conflicting Circle Lanes		1		1		1	
Adj Approach Flow, veh	/h	449	7	706		480	
Demand Flow Rate, veh	ı/h	467	7	734		489	
Vehicles Circulating, vel	h/h	218	3	379		290	
Vehicles Exiting, veh/h		895	4	400		395	
Ped Vol Crossing Leg, #	#/h	0		0		0	
Ped Cap Adj		1.000	1.0	000		1.000	
Approach Delay, s/veh		8.0	2	0.6		9.2	
Approach LOS		Α		С		А	
Lane	Left		Left		Left		
Designated Moves	TR		LT		LR		
Assumed Moves	TR		LT		LR		
RT Channelized							
Lane Util	1.000		1.000		1.000		
Follow-Up Headway, s	2.609		2.609		2.609		
Critical Headway, s	4.976		4.976		4.976		
Entry Flow, veh/h	467		734		489		
Cap Entry Lane, veh/h	1105		937		1027		
Entry HV Adj Factor	0.961		0.962		0.982		
Flow Entry, veh/h	449		706		480		
Cap Entry, veh/h	1062		902		1008		
V/C Ratio	0.423		0.783		0.476		
Control Delay, s/veh	8.0		20.6		9.2		
LOS	A		C		A		
95th %tile Queue yeb	2		8		3		

05/28/2021
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Intersection							ļ
	610 E						
Intersection Delay, s/vei	n10.5						
Intersection LOS	В						
Approach		EB	I	WВ		NB	
Entry Lanes		1		1		1	
<b>Conflicting Circle Lanes</b>		1		1		1	
Adj Approach Flow, veh	/h	334	8	376		232	
Demand Flow Rate, veh	ı/h	341	8	385		239	
Vehicles Circulating, vel	h/h	480		70		239	
Vehicles Exiting, veh/h		475	4	108		582	
Ped Vol Crossing Leg, #	#/h	0		0		0	
Ped Cap Adj		1.000	1.0	000		1.000	
Approach Delay, s/veh		9.3	1	2.3		5.5	
Approach LOS		А		В		А	
Lane	Left		Left		Left		
Designated Moves	TR		LT		LR		
Assumed Moves	TR		LT		LR		
RT Channelized							
Lane Util	1.000		1.000		1.000		
Follow-Up Headway, s 2	2.609		2.609		2.609		
Critical Headway, s	4.976		4.976		4.976		
Entry Flow, veh/h	341		885		239		
Cap Entry Lane, veh/h	846		1285		1081		
Entry HV Adj Factor	0.980		0.990		0.971		
Flow Entry, veh/h	334		876		232		
Cap Entry, veh/h	829		1272		1050		
V/C Ratio	0.403		0.689		0.221		
Control Delay, s/veh	9.3		12.3		5.5		
LOS	А		В		А		
95th %tile Queue, veh	2		6		1		

Intersection Delay, s/veh17.5 Intersection LOS C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1			4		1	1-			্ব	1	
Traffic Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293	
Future Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2	
Mvmt Flow	117	13	192	1	24	20	367	169	7	37	177	326	
Number of Lanes	1	1	0	0	1	0	1	1	0	0	1	1	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			2			2			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	2			2			2			1			
Conflicting Approach R	ightNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	2			2			1			2			
HCM Control Delay	13.7			12			22.5			15.2			
HCM LOS	В			В			С			С			

Lane	NBLn1	NBLn2	EBLn1	EBLn2V	WBLn1	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	2%	17%	0%
Vol Thru, %	0%	96%	0%	6%	54%	83%	0%
Vol Right, %	0%	4%	0%	94%	44%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	330	158	105	185	41	192	293
LT Vol	330	0	105	0	1	33	0
Through Vol	0	152	0	12	22	159	0
RT Vol	0	6	0	173	18	0	293
Lane Flow Rate	367	176	117	206	46	213	326
Geometry Grp	7	7	7	7	6	7	7
Degree of Util (X)	0.734	0.325	0.26	0.385	0.101	0.407	0.549
Departure Headway (Hd)	7.202	6.664	8.018	6.869	8.019	6.874	6.071
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Сар	506	542	449	526	447	525	596
Service Time	4.914	4.377	5.751	4.569	6.058	4.588	3.785
HCM Lane V/C Ratio	0.725	0.325	0.261	0.392	0.103	0.406	0.547
HCM Control Delay	27.3	12.6	13.6	13.8	12	14.2	15.9
HCM Lane LOS	D	В	В	В	В	В	С
HCM 95th-tile Q	6.1	1.4	1	1.8	0.3	2	3.3

Int Delay, s/veh	1.1							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	14		٦	1	Y			
Traffic Vol, veh/h	352	4	6	619	30	36		
Future Vol, veh/h	352	4	6	619	30	36		
Conflicting Peds, #/hr	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	-	100	-	0	-		
Veh in Median Storage	,# 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	92	92	92	92	92	92		
Heavy Vehicles, %	4	4	4	4	2	2		
M∨mt Flow	383	4	7	673	33	39		

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0 387	0 1072	194	
Stage 1	-		- 385	-	
Stage 2	-		- 687	-	
Critical Hdwy	-	- 4.16	- 6.63	6.93	
Critical Hdwy Stg 1	-		- 5.83	-	
Critical Hdwy Stg 2	-		- 5.43	-	
Follow-up Hdwy	-	- 2.238	- 3.519	3.319	
Pot Cap-1 Maneuver	-	- 1157	- 229	815	
Stage 1	-		- 658	-	
Stage 2	-		- 498	-	
Platoon blocked, %	-	-	-		
Mov Cap-1 Maneuver	· -	- 1157	- 228	815	
Mov Cap-2 Maneuver	· -		- 228	-	
Stage 1	-		- 658	-	
Stage 2	-		- 495	-	
Approach	FB	WB	NB		
HCM Control Delay		0.1	16.8		
HCM LOS	5 0	0.1	10.0		
			U		

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT	
Capacity (veh/h)	376	-	-	1157	-	
HCM Lane V/C Ratio	0.191	-	-	0.006	-	
HCM Control Delay (s)	16.8	-	-	8.1	-	
HCM Lane LOS	С	-	-	A	-	
HCM 95th %tile Q(veh)	0.7	-	-	0	-	

Int Delay, s/veh	134.9						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1	1	٦	1	٦	1	
Traffic Vol, veh/h	257	156	193	456	342	99	
Future Vol, veh/h	257	156	193	456	342	99	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	Yield	-	None	-	None	
Storage Length	-	215	190	-	0	210	
Veh in Median Storage	e,#0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	92	92	92	92	92	92	
Heavy Vehicles, %	4	4	4	4	2	2	
Mvmt Flow	279	170	210	496	372	108	

Major/Minor	Major1	Major2	Minor1			
Conflicting Flow All	0	0 279	0 1195	279		
Stage 1	-		- 279	-		
Stage 2	-		- 916	-		
Critical Hdwy	-	- 4.14	- 6.42	6.22		
Critical Hdwy Stg 1	-		- 5.42	-		
Critical Hdwy Stg 2	-		- 5.42	-		
Follow-up Hdwy	-	- 2.236	- 3.518	3.318		
Pot Cap-1 Maneuver	-	- 1272	- ~206	760		
Stage 1	-		- 768	-		
Stage 2	-		- 390	-		
Platoon blocked, %	-	-	-			
Mov Cap-1 Maneuver	-	- 1272	- ~ 172	760		
Mov Cap-2 Maneuver	-		- ~172	-		
Stage 1	-		- 768	-		
Stage 2	-		- ~ 326	-		
Approach	EB	WB	NB			
HCM Control Delay, s	0	2.5	\$ 456			
HCM LOS	-		F			
	nt INBL		ERI ERK	VVBL	WBI	
Capacity (ven/h)	1	72 760		1272	-	
HCM Lane V/C Ratio	2.1	61 0.142		0.165	-	
HCM Control Delay (s	) \$58	4.9 10.5		8.4	-	
HCM Lane LOS	<b>`</b>	F B		A	-	
HCM 95th %tile Q(veh	ı) 2'	9.7 0.5		0.6	-	
Notes						
~: Volume exceeds ca	pacity \$	: Delay exc	eeds 300s	+: Com	putation Not Defined	*: All major volume in platoon

Intersection Delay, s/veh37.2 Intersection LOS E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	1	1			4			4			\$		
Traffic Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293	
Future Vol, veh/h	105	12	173	1	22	18	330	152	6	33	159	293	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Heavy Vehicles, %	3	3	3	3	3	3	2	2	2	2	2	2	
Mvmt Flow	117	13	192	1	24	20	367	169	7	37	177	326	
Number of Lanes	1	1	0	0	1	0	0	1	0	0	1	0	
Approach	EB			WB			NB			SB			
Opposing Approach	WB			EB			SB			NB			
Opposing Lanes	1			2			1			1			
Conflicting Approach Le	eft SB			NB			EB			WB			
Conflicting Lanes Left	1			1			2			1			
Conflicting Approach R	ighNB			SB			WB			EB			
<b>Conflicting Lanes Right</b>	1			1			1			2			
HCM Control Delay	14.3			12.1			51.7			38.3			
HCM LOS	В			В			F			Е			

Lane	NBLn1	EBLn1	EBLn2V	VBLn1	SBLn1
Vol Left, %	68%	100%	0%	2%	7%
Vol Thru, %	31%	0%	6%	54%	33%
Vol Right, %	1%	0%	94%	44%	60%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	488	105	185	41	485
LT Vol	330	105	0	1	33
Through Vol	152	0	12	22	159
RT Vol	6	0	173	18	293
Lane Flow Rate	542	117	206	46	539
Geometry Grp	2	7	7	5	2
Degree of Util (X)	0.951	0.267	0.403	0.103	0.885
Departure Headway (Hd)	6.317	8.25	7.059	8.103	5.91
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Сар	575	435	508	440	614
Service Time	4.371	6.012	4.821	6.202	3.961
HCM Lane V/C Ratio	0.943	0.269	0.406	0.105	0.878
HCM Control Delay	51.7	14	14.5	12.1	38.3
HCM Lane LOS	F	В	В	В	Е
HCM 95th-tile Q	12.6	1.1	1.9	0.3	10.5



Exhibit H: Neighborhood Meeting Documentation



# PLANNING DEPARTMENT NEIGHBORHOOD MEETING PACKET

(Required for all Type III, IV or V projects)

Submit the following with land use application materials to the City of Sherwood Planning Department, 22560 SW Pine St., Sherwood, OR 97140: (503) 625-5522.

The purpose of the neighborhood meeting is to solicit input and exchange information about the proposed development per Sherwood Zoning and Community Development Code 16.70.020. The meeting must be held in a public location **prior** to submitting a land use application.

Affidavits of mailing to adjacent property owners that are within 1,000 feet of the subject application.

Sign-in sheet(s)

Summary of the meeting notes

(Projects requiring a neighborhood meeting in which the City or Urban Renewal District is the property owner or applicant shall also provide published and posted notice of the neighborhood meeting consistent with the notice requirements in 16.72.020.)

### Affidavit of Mailing

DATE: June 8, 2021

#### STATE OF OREGON

Washington County

Oregon Street Business Park

I, <u>Mitchell Godwin</u>, representative for the <u>21720 Sus Oregon St</u> proposed development project do hereby certify that the attached notice to adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject project, was placed in a U.S. Postal receptacle on O(4 | OS | 202).

Million Representatives Name: Mitchell Godwin Name of the Organization: AKS Engineering + Forestry

) )



#### June 8, 2021

#### RE: VIRTUAL NEIGHBORHOOD MEETING NOTICE Land Use Application for a Business Park at 21720 SW Oregon Street

#### Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a virtual neighborhood meeting regarding a ±9.23-acre site located at 21720 SW Oregon Street (Washington County Assessor's Map 2S 1 28C Tax Lot 500). The enclosed map shows the specific location of the project site east of the intersection of SW Oregon Street and SW Tonquin Road. The project involves a site plan review application for an industrial campus of five flex buildings (totaling ±90,800 square feet) and associated parking and landscaping and other site improvements. The site is zoned Employment Industrial and the planned buildings will primarily be for industrial tenants within a variety of spaces, but future commercial uses as allowed by the City of Sherwood's Zoning and Community Development Code (SZCDC) may also be possible.

#### You are invited to attend the virtual meeting on:

#### June 22, 2021 at 6:00 PM See enclosed instructions to join the meeting.

A Virtual Neighborhood Meeting will be held on June 22, 2021 to inform the community about our proposed project. Interested community members are encouraged to attend this meeting. We would like to take the opportunity to discuss the project in more detail with you prior to applying to the City of Sherwood.

The purpose of this virtual meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Sherwood. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the SZCDC.

Please note this meeting will be an informational meeting on preliminary development plans and may be recorded. These plans may be altered prior to submittal of the application to the City of Sherwood.

I look forward to discussing this project with you. If you have questions but will be unable to attend, please feel free to call me at 503-563-6151.

Sincerely,

#### AKS ENGINEERING & FORESTRY, LLC

Glen Southerland, AICP 12965 SW Herman Road, Suite 100 Tualatin, OR 97062 503-563-6151 | <u>southerlandg@aks-eng.com</u> **Vicinity Map** 







# Instructions for Joining & Participating in the Public Neighborhood Meeting for Oregon Street Business Park

Virtual Meeting provided via Zoom Webinar

# June 22, 2021 at 6:00 PM

# <u>Please Register in Advance</u> (a list of attendees will be submitted to the City of Sherwood):

- Go online to <u>https://www.aks-eng.com/or-st-business-park/</u> This must be typed in exactly as shown.
- Click on the link provided to complete the online registration form.
- You will receive a confirmation email containing a link to join the Zoom webinar at the scheduled time as well as additional instructions.
- Meeting materials will be available upon request at least 10 days after the meeting concludes.

# How to Join the Meeting:

## Join by computer, tablet or smartphone

- This is the preferred method as it allows you to see the Presenter's materials on screen.
- Click on the "Click this URL join" link provided in your registration confirmation email.
- If you registered but did not receive a confirmation email, please check your junk/spam folder before contacting the Meeting Administrator.
- You may be prompted to "download and run Zoom" or to install the App (ZOOM cloud meetings).
   Follow the prompts or bypass this process by clicking "join from your browser".
- You should automatically be connected to the virtual neighborhood meeting.

## Join by telephone

Dial any of the toll-free Zoom numbers below to connect to the neighborhood meeting:

+ 1-346-248-7799	+ 1-669-900-6833
+ 1-253-215-8782	+ 1-312-626-6799
+ 1-929-205-6099	+ 1-301-715-8592

- If you experience trouble connecting, please pick another number and try again.
- After dialing in, enter this Zoom ID when prompted: **851 1081 4465**
- The passcode, if needed is: 6151

#### MEETING ADMINISTRATOR:

For technical assistance or to ask a question if you will not be able to attend:

Email: SoutherlandG@aks-eng.com

# **During the Meeting**

# Audio Help

- Meeting attendees will be muted throughout the presentation. This will allow everyone to hear the
  presentation clearly without added distractions.
- Make sure that the speakers on your device are turned on and not muted.
- If you do not have speakers on your computer, you can join by phone (using the "Join by telephone" instructions) to hear the presentation while watching the presentation on your computer monitor.

## **Questions & Answers**

Your questions are important to us. There will be time reserved during the meeting to take questions, using one of the submission options below. Our presentation team will make their best effort to answer all question(s) during the meeting.

#### Prior to the Meeting:

 If you will not be able to attend, you can email your question(s) in advance to the Meeting Administrator: <u>SoutherlandG@aks-eng.com</u>

#### During the Meeting:

Preferred Method: Use the "Chat" button on the bottom of the presentation screen to submit a question in real time.

#### After the Meeting:

- We will continue to take questions after the meeting has ended. Please submit your question(s) to the Meeting Administrator: <u>SoutherlandG@aks-eng.com</u>
- All questions received after the meeting will be answered in an email to all registered meeting participants by end of business the following day.

# Helpful Hints/Troubleshooting

# We want to start on time! Please join the meeting 5-10 minutes prior to the 6:00 PM start time to ensure successful connection.

- You do not need a Zoom account to join the meeting.
- You will need a valid email address at the time of registration to receive the confirmation email and link to join the webinar or receive answers to any questions submitted after the meeting.
- For first-time Zoom users, we recommend downloading and installing the Zoom App well in advance, by clicking on the "Click Here to Join" link in your confirmation email.
- For technical assistance, please contact the Meeting Administrator (contact above).
- If you have difficulties connecting by computer, tablet, or smartphone, we suggest disconnecting and instead use the "Join by telephone" instructions to listen in.

# **NEIGHBORHOOD MEETING SIGN IN SHEET**

Proposed Project: Oregon Street Business Park

Proposed Project Location: 21720 SW Oregon Street - 2S128C000500

Project Contact: \_AKS Engineering & Forestry, LLC - Glen Southerland, AICP

Meeting Location: Virtual - Zoom Webinar

Meeting Date: <u>6/23/21 - 6:00 p.m.</u>

Name	Address	E-Mail	Please identify yourself (check all that apply)					
			Resident	Property owner	Business owner	Other		
No members of the public attended								



June 24, 2021

#### Re: Neighborhood Meeting Minutes Oregon Street Business Park City of Sherwood Project No. PAC 2020-010

Meeting Date: June 22, 2021 Time: 6:00 p.m. Location: Virtual Meeting was held via Zoom Webinar

The applicant conducted a neighborhood meeting in accordance with applicable City regulations to discuss a site and design review application for an industrial business park. Prior to the meeting, materials were uploaded to a project website at <u>https://www.aks-eng.com/or-st-business-park/</u>.

This meeting was held via a Zoom Webinar in accordance with the City's Neighborhood Meeting Guidelines. Mimi Doukas, John Christiansen, and Glen Southerland from AKS Engineering & Forestry, LLC and Bruce Polley from Oregon Street Business Park, LLC were present. No members of the public attended the meeting.

Having no members of the public in attendance, the meeting concluded at 6:15 p.m.

#### Sincerely, AKS ENGINEERING & FORESTRY, LLC

Glen Southerland, AICP 12965 SW Herman Road, Suite 100 Tualatin, OR 97062 503-563-6151 | SoutherlandG@aks-eng.com

# **Affidavit of Mailing**

# DATE: 5/17/22

#### STATE OF OREGON

Washington County

I, <u>GUEN Southerrow</u>, representative for the <u>one one spectors process</u> proposed development project do hereby certify that the attached notice to adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject project, was placed in a U.S. Postal receptacle on 5/10/22.

Representatives Name: GLEN Souther CAND Name of the Organization: ALS ENGINEERING & FORESTRY, UC

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#### May 16, 2022



#### RE: VIRTUAL NEIGHBORHOOD MEETING NOTICE Land Use Application for a Business Park at 21720 SW Oregon Street

#### Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a virtual neighborhood meeting regarding a ±9.23-acre site located at 21720 SW Oregon Street (Washington County Assessor's Map 2S 1 28C Tax Lot 500). The enclosed map shows the specific location of the project site east of the intersection of SW Oregon Street and SW Tonquin Road. The project involves a site plan review application for an industrial campus of four flex buildings (totaling ±115,170 square feet), associated parking and landscaping and other site improvements. The application also includes a variance for reduced building setback along SW Laurelwood Way, a new public street right-of-way along the site's eastern boundary. The site is zoned Employment Industrial and the planned buildings will primarily be for industrial tenants within a variety of spaces, but future commercial uses as allowed by the City of Sherwood's Zoning and Community Development Code (SZCDC) may also be possible.

#### You are invited to attend the virtual meeting on:

#### May 30, 2022, at 6:00 PM See enclosed instructions to join the meeting.

A Virtual Neighborhood Meeting will be held on May 30, 2022, to inform the community about our proposed project. Interested community members are encouraged to attend this meeting. We would like to take the opportunity to discuss the project in more detail with you prior to applying to the City of Sherwood.

The purpose of this virtual meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Sherwood. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the SZCDC.

Please note this meeting will be an informational meeting on preliminary development plans and may be recorded. These plans may be altered prior to submittal of the application to the City of Sherwood.

I look forward to discussing this project with you. If you have questions but will be unable to attend, please feel free to call me at 503-563-6151.

Sincerely, AKS ENGINEERING & FORESTRY, LLC

Glen Southerland, AICP 12965 SW Herman Road, Suite 100 Tualatin, OR 97062 503-563-6151 | <u>southerlandg@aks-eng.com</u> <image>





# Instructions for Joining & Participating in the Public Neighborhood Meeting for Oregon Street Business Park

Virtual Meeting provided via Zoom Webinar

# May 30, 2022, at 6:00 PM

# <u>Please Register in Advance</u> (a list of attendees will be submitted to the City of Sherwood):

- Go online to <u>https://www.aks-eng.com/or-st-business-park/</u> This must be typed in exactly as shown.
- Click on the link provided to complete the online registration form.
- You will receive a confirmation email containing a link to join the Zoom webinar at the scheduled time as well as additional instructions.
- Meeting materials will be available upon request at least 10 days after the meeting concludes.

# How to Join the Meeting:

### Join by computer, tablet or smartphone

- This is the preferred method as it allows you to see the Presenter's materials on screen.
- Click on the "Click this URL join" link provided in your registration confirmation email.
- If you registered but did not receive a confirmation email, please check your junk/spam folder before contacting the Meeting Administrator.
- You may be prompted to "download and run Zoom" or to install the App (ZOOM cloud meetings).
   Follow the prompts or bypass this process by clicking "join from your browser".
- You should automatically be connected to the virtual neighborhood meeting.

## Join by telephone

Dial any of the toll-free Zoom numbers below to connect to the neighborhood meeting:

+ 1-346-248-7799	+ 1-669-900-6833
+ 1-253-215-8782	+ 1-312-626-6799
+ 1-929-205-6099	+ 1-301-715-8592

- If you experience trouble connecting, please pick another number and try again.
- After dialing in, enter this Zoom ID when prompted: **831 7246 5718**
- The passcode, if needed is: 6151

#### MEETING ADMINISTRATOR:

For technical assistance or to ask a question if you will not be able to attend:

Email: SoutherlandG@aks-eng.com

# **During the Meeting**

# Audio Help

- Meeting attendees will be muted throughout the presentation. This will allow everyone to hear the
  presentation clearly without added distractions.
- Make sure that the speakers on your device are turned on and not muted.
- If you do not have speakers on your computer, you can join by phone (using the "Join by telephone" instructions) to hear the presentation while watching the presentation on your computer monitor.

## **Questions & Answers**

Your questions are important to us. There will be time reserved during the meeting to take questions, using one of the submission options below. Our presentation team will make their best effort to answer all question(s) during the meeting.

#### Prior to the Meeting:

 If you will not be able to attend, you can email your question(s) in advance to the Meeting Administrator: <u>SoutherlandG@aks-eng.com</u>

#### During the Meeting:

Preferred Method: Use the "Chat" button on the bottom of the presentation screen to submit a question in real time.

#### After the Meeting:

- We will continue to take questions after the meeting has ended. Please submit your question(s) to the Meeting Administrator: <u>SoutherlandG@aks-eng.com</u>
- All questions received after the meeting will be answered in an email to all registered meeting participants by end of business the following day.

# Helpful Hints/Troubleshooting

# We want to start on time! Please join the meeting 5-10 minutes prior to the 6:00 PM start time to ensure successful connection.

- You do not need a Zoom account to join the meeting.
- You will need a valid email address at the time of registration to receive the confirmation email and link to join the webinar or receive answers to any questions submitted after the meeting.
- For first-time Zoom users, we recommend downloading and installing the Zoom App well in advance, by clicking on the "Click Here to Join" link in your confirmation email.
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# Affidavit of Mailing

DATE: 5/24/22

# STATE OF OREGON

Washington County

LU2021-015

I, <u>**ALEN SoutherLAND**</u>, representative for the <u>**DRECT BUSINESC PORC**</u> proposed development project do hereby certify that the attached notice to adjacent property owners and recognized neighborhood organizations that are within 1,000 feet of the subject project, was placed in a U.S. Postal receptacle on 5/23/22.

Representatives Name: GLEN SOUTHERLAND Name of the Organization: ALS ENCINEERING & FORESTRY, LLC

)

#### May 23, 2022



#### RE: VIRTUAL NEIGHBORHOOD MEETING NOTICE – <u>CORRECTED DATE</u> Land Use Application for a Business Park at 21720 SW Oregon Street

#### Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a virtual neighborhood meeting regarding a ±9.23-acre site located at 21720 SW Oregon Street (Washington County Assessor's Map 2S 1 28C Tax Lot 500). The enclosed map shows the specific location of the project site east of the intersection of SW Oregon Street and SW Tonquin Road. The project involves a site plan review application for an industrial campus of four flex buildings (totaling ±115,170 square feet), associated parking and landscaping and other site improvements. The application also includes a variance for reduced building setback along SW Laurelwood Way, a new public street right-of-way along the site's eastern boundary. The site is zoned Employment Industrial.

#### You are invited to attend the virtual meeting on:

#### MAY 31, 2022, at 6:00 PM See enclosed instructions to join the meeting.

A Virtual Neighborhood Meeting will be held on May 31, 2022, to inform the community about our proposed project. Interested community members are encouraged to attend this meeting. We would like to take the opportunity to discuss the project in more detail with you prior to applying to the City of Sherwood.

The purpose of this virtual meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Sherwood. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the SZCDC.

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<image>





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- If you have difficulties connecting by computer, tablet, or smartphone, we suggest disconnecting and instead use the "Join by telephone" instructions to listen in.

# **NEIGHBORHOOD MEETING SIGN IN SHEET**

Proposed Project: Oregon Street Business Park

Proposed Project Location: 21720 SW Oregon Street - 2S128C000500

Project Contact: \_AKS Engineering & Forestry, LLC - Glen Southerland, AICP

Meeting Location: Virtual - Zoom Webinar

Meeting Date: <u>5/31/22 - 6:00 p.m.</u>

Name	Address	E-Mail	Please identify yourself (check all that apply)			
			Resident	Property owner	Business owner	Other
No members of the public attended						
May 31, 2022



### Re: Neighborhood Meeting Minutes Oregon Street Business Park City of Sherwood Project No. LU 2021-015

Meeting Date: May 31, 2022 Time: 6:00 p.m. Location: Virtual Meeting was held via Zoom Webinar

The applicant conducted a neighborhood meeting in accordance with applicable City regulations to discuss a site, design review, and variance application for an industrial business park. Prior to the meeting, materials were uploaded to a project website at <a href="https://www.aks-eng.com/or-st-business-park/">https://www.aks-eng.com/or-st-business-park/</a>.

This meeting was held via a Zoom Webinar in accordance with the City's Neighborhood Meeting Guidelines. Glen Southerland, AICP from AKS Engineering & Forestry, LLC and Bruce Polley from Oregon Street Business Park, LLC were present. No members of the public attended the meeting.

Having no members of the public in attendance, the meeting concluded at 6:15 p.m.

Sincerely, AKS ENGINEERING & FORESTRY, LLC

Glen Southerland, AICP 12965 SW Herman Road, Suite 100 Tualatin, OR 97062 503-563-6151 | SoutherlandG@aks-eng.com



# Exhibit I: Public Notice Information



Date of Production: 05/09/2022

### TERMS AND CONDITIONS OF INFORMATION REPORTS

**IMPORTANT - READ CAREFULLY: AN INFORMATION REPORT IS** NOT AN INSURED PRODUCT OR SERVICE OR A REPRESENTATION OF THE CONDITION OF TITLE TO REAL PROPERTY. IT IS NOT AN ABSTRACT, LEGAL OPINION, OPINION OF TITLE, TITLE INSURANCE COMMITMENT OR PRELIMINARY REPORT, OR ANY FORM OF TITLE INSURANCE OR GUARANTY. THE INFORMATION REPORT IS ISSUED EXCLUSIVELY FOR THE BENEFIT OF THE REQUESTOR, AND MAY NOT BE USED OR RELIED UPON BY ANY OTHER PERSON. THE INFORMATION REPORT MAY NOT BE REPRODUCED IN ANY MANNER WITHOUT FIRST AMERICAN TITLE'S PRIOR WRITTEN CONSENT. FIRST AMERICAN TITLE DOES NOT REPRESENT OR WARRANT THAT THE INFORMATION CONTAINED IN THE INFORMATION REPORT IS COMPLETE OR FREE FROM ERROR. AND THE INFORMATION THEREIN IS PROVIDED WITHOUT ANY WARRANTIES OF ANY KIND, AS-IS, AND WITH ALL FAULTS, AS A MATERIAL PART OF THE CONSIDERATION GIVEN IN EXCHANGE FOR THE ISSUANCE OF AN INFORMATION REPORT, REQUESTOR AGREES THAT FIRST AMERICAN TITLE'S SOLE LIABILITY FOR ANY LOSS OR DAMAGE CAUSED BY AN ERROR OR OMISSION DUE TO INACCURATE INFORMATION OR NEGLIGENCE IN PREPARING THE INFORMATION REPORT SHALL BE LIMITED TO THE GREATOR OF THE FEE CHARGED FOR THE INFORMATION REPORT OR \$15. REQUESTOR ACCEPTS THE INFORMATION REPORT WITH THIS LIMITATION AND AGREES THAT FIRST AMERICAN TITLE WOULD NOT HAVE ISSUED THE INFORMATION REPORT BUT FOR THE LIMITATION OF LIABILITY DESCRIBED ABOVE. FIRST AMERICAN TITLE MAKES NO REPRESENTATION OR WARRANTY AS TO THE LEGALITY OR PROPRIETY OF REQUESTOR'S USE OF THE INFORMATION CONTAINED IN THE INFORMATION REPORT.

2S132AA-12000 David & Stephanie Zaganiacz 3952 Carman Dr Lake Oswego, OR 97035

2S128C0-00400 Washington County Facilities M 169 N 1st Ave # 42 Hillsboro, OR 97124

2S13300-02500 United States Of America Dept 911 NE 11th Ave Portland, OR 97232

2S132AA-09900 Dennis & Kristen Titko 14603 SW Brickyard Dr Sherwood, OR 97140

2S132AA-09400 Hyunsuk Seo & Bridget Loftis 14645 SW Brickyard Dr Sherwood, OR 97140

2S128C0-00600 Harsch Investment Properties L 1121 SW Salmon St STE 500 Portland, OR 97205

2S13300-00200 Harsch Investment Properties L 1121 SW Salmon St STE 500 Portland, OR 97205

2S13300-00401 Harsch Investment Properties L 1121 SW Salmon St STE 500 Portland, OR 97205

2S132AA-07300 Abdallah Salame 14694 SW Brickyard Dr Sherwood, OR 97140

2S128C0-00500 Bruce & Karen Polley Po Box 1489 Sherwood, OR 97140 2S13300-00400 Woodburn Industrial Capital Gr 395 Shenandoah Ln NE Woodburn, OR 97071

2S129D0-00600 Washington County Facilities M 169 N 1st Ave # 42 Hillsboro, OR 97124

2S133BB-00200 United States Of America Dept 911 NE 11th Ave Portland, OR 97232

2S132AA-11500 Amanda & Robert Taylor 14596 SW Oregon St Sherwood, OR 97140

2S132AA-07700 Paul & Stephanie Spath 14738 SW Brickyard Dr Sherwood, OR 97140

2S132AA-00190 Sherwood City Of 22560 SW Pine St Sherwood, OR 97140

2S13300-00201 Harsch Investment Properties L 1121 SW Salmon St STE 500 Portland, OR 97205

2S13300-00403 W John 1121 SW Salmon St STE 500 Portland, OR 97205

2S132AA-09700 Carol Riggs 14619 SW Brickyard Dr Sherwood, OR 97140

2S132AA-11200 Jason Berg & Rebecca Osmond 22095 SW Chesapeake PI Sherwood, OR 97140 2S133BB-00100 Woodburn Industrial Capital Gr Po Box 1060 Woodburn, OR 97071

2S128C0-00700 Kenneth & Carol Vandomelen Trs & 4825 SW Evans St Portland, OR 97219

2S133BB-00400 United States Of America Dept 911 NE 11th Ave Portland, OR 97232

2S132AA-06600 Gabriel Tanoue 14616 SW Brickyard Dr Sherwood, OR 97140

2S128C0-00204 Sherwood City Of 22560 SW Pine St Sherwood, OR 97140

2S132AA-06200 Sherwood City Of 22560 SW Pine St Sherwood, OR 97140

2S13300-00300 Sherwood Commerce Center Llc 1121 SW Salmon St STE 500 Portland, OR 97205

2S133BB-00300 Sherwood City Of 22560 SW Pine St Sherwood, OR 97140

2S128C0-00100 Pride Properties Investments L Po Box 820 Sherwood, OR 97140

2S128C0-00102 Orwa Sherwood Llc 8320 NE Highway 99 Vancouver, WA 98665 2S132AA-10000 N N & Astrida Clarice 10410 Rainier Ave S Seattle, WA 98178

2S132AA-07500 Alejandra Nicolas 14718 SW Brickyard Dr Sherwood, OR 97140

2S132AA-06700 Bonnie Miller 14630 SW Brickyard Dr Sherwood, OR 97140

2S132AA-07400 Zeb Menle 14706 SW Brickyard Dr Sherwood, OR 97140

2S132AA-07600 Ola Hopkins 14730 SW Brickyard Dr Sherwood, OR 97140

2S132AA-07100 Meghan & Meghan Jackson 14672 SW Brickyard Dr Sherwood, OR 97140

2S132AA-12200 David Hiser 22100 SW Chesapeake PI Sherwood, OR 97140

2S132AA-09100 Daniel Goodyear 14685 SW Brickyard Dr Sherwood, OR 97140

2S132AA-11600 Empyrean Real Estate Llc 13751 SW Rock Creek Rd Sheridan, OR 97378

2S132AA-09000 Debra Clemmens 14723 SW Brickyard Dr Sherwood, OR 97140 2S132AA-07000 Audrey & Dawn Oleary 14658 SW Brickyard Dr Sherwood, OR 97140

2S132AA-06800 Cindy Nevill 14642 SW Brickyard Dr Sherwood, OR 97140

2S132AA-11000 Richard & Sandra Miles 22115 SW Chesapeake PI Sherwood, OR 97140

2S132AA-11400 Ryan & Cara Mcclung 11106 SW Oneida St Tualatin, OR 97062

2S132AA-11900 Calla Lilly 22070 SW Chesapeake PI Sherwood, OR 97140

2S132AA-09300 Holly Jackson & William Lewis 32055 NE Corral Creek Rd Newberg, OR 97132

2S132AA-09200 Kenneth & Patricia Higgason 14673 SW Brickyard Dr Sherwood, OR 97140

2S132AA-09600 David Garcia & Marisol Vega 14625 SW Brickyard Dr Sherwood, OR 97140

2S132AA-09800 Blake & Joan Elison 14615 SW Brickyard Dr Sherwood, OR 97140

2S132AA-11700 Colleen & James Buckner 59 Margate St Daly City, CA 94015 2S128C0-00200 Northstar Chemical Inc 14200 SW Tualatin Sherwood Rd STE B Sherwood, OR 97140

2S132AA-06900 John & Orfilio Naranjo 14650 SW Brickyard Dr Sherwood, OR 97140

2S132AA-01101 Michael D & Lawrence D Kay Llc 22210 SW Murdock Rd Sherwood, OR 97140

2S132AA-09500 Katherine & James Mcburnett 14637 SW Brickyard Dr Sherwood, OR 97140

2S132AA-07200 David Krempley 14680 SW Brickyard Dr Sherwood, OR 97140

2S128C0-00202 J & L Rink Llc 21433 SW Oregon St Sherwood, OR 97140

2S132AA-12100 Preston & Rochelle Griffin 22090 SW Chesapeake PI Sherwood, OR 97140

2S132AA-11100 Katharine Lingemann 22107 SW Chesapeake PI Sherwood, OR 97140

2S128C0-00701 Dahlke Lane Properties Llc 4677 SE Concord Rd Portland, OR 97267

2S132AA-11300 Sara & Anthony Betz 10014 SW Conestoga Dr APT 158 Beaverton, OR 97008 2S132AA-06500 Keith Beaumont 14602 SW Brickyard Dr Sherwood, OR 97140

2S128C0-00501 Allied Systems Company 21433 SW Oregon St Sherwood, OR 97140

2S13300-02500 United States Of America Dept 911 NE 11th Ave Portland, OR 97232

2S128C0-00201 Banc Of America Po Box 100918 Atlanta, GA 30384

2S128C0-00501 Allied Systems Company 21433 SW Oregon St Sherwood, OR 97140 2S132AA-10200 Atley Estates Hoa 14673 SW Brickyard Dr Sherwood, OR 97140

2S132AA-11800 22060 Sw Chesapeake Place Llc Po Box 1626 Sherwood, OR 97140

2S128C0-00500 Bruce D & Karen M Polley Po Box 1489 Sherwood, OR 97140

2S128C0-00201 Allied Systems Company 21433 SW Oregon St Sherwood, OR 97140 2S128C0-00201 Allied Systems Company 21433 SW Oregon St Sherwood, OR 97140

2S128C0-00400 Washington County Facilities M 169 N 1st Ave # 42 Hillsboro, OR 97124

2S128C0-00200 Washington County 14200 SW Tualatin Sherwood Rd Sherwood, OR 97140

2S128C0-00201 J & L Rink Llc 21433 SW Oregon St Sherwood, OR 97140



### **1000 ft Buffer 21720 SW Oregon St, Sherwood, OR 97140** Report Generated: 5/9/2022



The present data and maps are intended for informational purposes only. Some information has been procured from third-party sources and has not been independently verified. Individual parts are owned by their respective copyright owners and not by First American. First American Title Company makes no express or implied warranty respecting the information presented and assumes no responsibility for errors or omissions.



### Ownership

Legal Owner(s): Bruce & Karen Polley Site Address: 21720 SW Oregon St Sherwood, OR 97140 Mailing Address: Po Box 1489 Sherwood, OR 97140

### **Property Characteristics**

Bedrooms: 2 Total Bathrooms: 3 Full Bathrooms: 2 Half Bathrooms: 0 Units: 0 Stories: Fire Place: Y Air Conditioning: Heating Type: Forced air unit Electric Type:

**Property Information** 

Land Use: Improvement Type: Legal Description: ACRES 9.23, UNZONED FARMLAND LIEN \$2,896.94, CODE SPLIT, LAND HOOK, POTENTIAL ADDL TAX LIABILITY

### Assessor & Tax

Market Land: \$6,000 Market Total: \$6,000 Market Structure: \$0 Assessed Total: \$252,430 Building S Gai Garage S Parking Sp

> Zoning: El School District: Sherwood School Neighborhood: Sherwood - Tualatin Subdivision:

Taxes: \$4,531.64 % Improved: 2 Levy Code: 088.20 Millage Rate: 18.4904

Sale History		
Last Sale Date: 3/24/2008	Doc #: 2008-025922	Last Sale Price: \$225,000
Prior Sale Date:	Prior Doc #:	Prior Sale Price: \$0
Mortgage		
1st Mortgage Date:	Doc #:	
1st Mortgage Type:	1st Mortgage Lender:	1st Mortgage: \$0
2nd Mortgage Type:		2nd Mortgage: \$0

Year Built: 1984

Building SqFt: 1568

First Floor SqFt: 1568

Basement Sqft: 0

Basment Type:

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Customer Service Department Phone: 503.219.8746(TRIO) Email: cs.oregon@firstam.com Report Generated: 5/9/2022

Parcel #: 2S128C0-00500 APN: R1492192 County: Washington

Lot SqFt: 402059 Lot Acres: 9.23 Roof Type: Roof Shape: GABLE Porch Type: Building Style: Garage: Carport Garage SqFt: 0 Parking Spots: 1 Pool:



Ownership

Legal Owner(s): Bruce D & Karen M Polley Site Address: 21720 SW Oregon St Sherwood, OR 97140 Mailing Address: Po Box 1489 Sherwood, OR 97140

### Property Characteristics

Bedrooms: 0 Total Bathrooms: 0 Full Bathrooms: 0 Half Bathrooms: 0 Units: 0 Stories: Fire Place: N Air Conditioning: Heating Type: Electric Type:

# с Туре:

**Property Information** 

Improvement Type: Legal Description: ACRES 0.3, UNZONED FARMLAND LIEN \$367.19, CODE SPLIT, LAND HOOK, POTENTIAL ADDL TAX LIABILITY

### Customer Service Department Phone: 503.219.8746(TRIO) Email: cs.oregon@firstam.com Report Generated: 5/9/2022

Parcel #: 2S128C0-00500 APN: R547466 County: Washington

Lot SqFt: 13068 Lot Acres: 0.30 Roof Type: Roof Shape: Porch Type: Building Style: Garage Garage SqFt: 0 Parking Spots: 0 Pool:

Zoning: El School District: Sherwood School Neighborhood: Sherwood - Tualatin Subdivision:

### Assessor & Tax

Land Use:

Market Land: \$6,000 Market Total: \$6,000 Market Structure: \$0 Assessed Total: \$6,000 Taxes: \$112.42 % Improved: 0 Levy Code: 088.47 Millage Rate: 18.7360

# Sale History Last Sale Date: 3/24/2008 Doc #: 2008-025922 Last Sale Price: \$225,000 Prior Sale Date: Prior Doc #: Prior Sale Price: \$0 Mortgage Ist Mortgage Date: Doc #: 1st Mortgage Type: 1st Mortgage Lender: 1st Mortgage: \$0 2nd Mortgage Type: 2nd Mortgage: \$0

Year Built: 0

Building SqFt: 0

Basement Sqft: 0

Basment Type:

First Floor SqFt: 1568

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11600 0.22 ac 11900 0.2 ac 0200 0.16 ac 0.19 ac 12100 0.16 ac 0.19 ac 12100 0.17 ac 12200 11100 0.16 ac 00200 0.21 ac 3.69 ac





Legal Owner: David & Stephanie Zaganiacz Site Address: 22080 SW Chesapeake PI Sherwood, OR Mailing Address: 3952 Carman Dr Lake Oswego, OR 97035 Bedrooms: 3 Bathrooms: 2 Building SqFt: 2,253 Lot Acres: 0.19 Year Built: 1994 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 11, ACRES 0.19

Legal Owner: Woodburn Industrial Capital Gr Site Address: NS Unincorporated, OR Mailing Address: 395 Shenandoah Ln NE Woodburn, OR Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 20.00 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 20.00

Legal Owner: Woodburn Industrial Capital Gr Site Address: NS Unincorporated, OR Mailing Address: Po Box 1060 Woodburn, OR 97071 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 8.17 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 8.17 APN: R558042 Ref Parcel #: 2S133BB-00100 Taxes: \$2,843.29 Market Value: \$861,830 Assessed Value: \$158,380 Sales Price: \$0 Transfer Date:

Legal Owner: Washington County Facilities M Site Address: Ns # NS # NS Sherwood, OR Mailing Address: 169 N 1st Ave # 42 Hillsboro, OR 97124 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 5.30 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 5.30, CODE SPLIT

APN: R1047290 Ref Parcel #: 2S128C0-00400 Taxes: \$0.00 Market Value: \$84,800 Assessed Value: \$0 Sales Price: \$0 Transfer Date:

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APN: R2036401 Ref Parcel #: 2S132AA-12000 Taxes: \$4,993.18 Market Value: \$466,990 Assessed Value: \$278,140 Sales Price: \$502,000 Transfer Date: 7/14/2021

APN: R558006 Ref Parcel #: 2S13300-00400 Taxes: \$5,340.95 Market Value: \$320,960 Assessed Value: \$297,510 Sales Price: \$0 Transfer Date:







Legal Owner: Washington County Facilities M Site Address: 14647 SW Oregon St Sherwood, OR 97140 Mailing Address: 169 N 1st Ave # 42 Hillsboro, OR 97124 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 16.24 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 21.06

Legal Owner: Kenneth & Carol Vandomelen Trs & Site Address: Vandomelen Joint Trust Mailing Address: 4825 SW Evans St Portland, OR 97219 Bedrooms: 2 Bathrooms: 1 Building SqFt: 800 Lot Acres: 4.62 Year Built: 1901 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 4.62

Legal Owner: United States Of America Dept Site Address: Ns # Ns # NS Sherwood, OR Mailing Address: 911 NE 11th Ave Portland, OR 97232 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 12.69 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: 1992-008 PARTITION PLAT, LOT 2, ACRES 12.69, CODE SPLIT

APN: R2019381 Ref Parcel #: 2S13300-02500 Taxes: \$0.00 Market Value: \$317,250 Assessed Value: \$0 Sales Price: \$0 Transfer Date:



Legal Owner: United States O	f America Dept		
Site Address: Ns # Ns # NS Sherwood, OR			
Mailing Address: 911 NE 11th Ave Portland, OR 97232			
Bedrooms: 0			
Bathrooms: 0			
Building SqFt: 0 Lot Acres: 3.69			
<b>.</b>	201710100. 0.00		
Year Built: 0			
Year Built: 0 School District: Sherwood Sch	ool District 88j		
Year Built: 0 School District: Sherwood Sch Neighborhood: Sherwood - Tu	ool District 88j alatin		

Ref Parcel #: 2S133BB-00200 Taxes: \$0.00 Market Value: \$1,179,320 Assessed Value: \$0 Sales Price: \$0 Transfer Date:

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APN: R548189 Ref Parcel #: 2S129D0-00600 Taxes: \$0.00 Market Value: \$3,687,050 Assessed Value: \$0 Sales Price: \$0 Transfer Date:

APN: R547484 Ref Parcel #: 2S128C0-00700 Taxes: \$3,032.95 Market Value: \$966,360 Assessed Value: \$205.610 Sales Price: \$750,000 Transfer Date: 9/24/2019

APN: R2031459

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SW Murdeck Rd	Legal Owner: United States Of America Dept Site Address: Ns # NS # NS Sherwood, OR Mailing Address: 911 NE 11th Ave Portland, OR 97232 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 3.29 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: 1993-010 PARTITION PLAT, LOT 3, ACRES 3.29	APN: R2031460 Ref Parcel #: 2S133BB-00400 Taxes: \$0.00 Market Value: \$1,051,480 Assessed Value: \$0 Sales Price: \$0 Transfer Date:
00600 16.24 ac / Oreaon St 06500 10200 0.15 ac 0.02 ac 09900 0.15 ac 0.02 ac 09900 0.13 ac 1.02 ac 06600 0.13 ac 0.0700 0.13 ac 0.5900 0.11 ac 06800 0.1 ac 0.14 ac	Legal Owner: Dennis & Kristen Titko Site Address: 14603 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14603 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,296 Lot Acres: 0.18 Year Built: 1993 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 35 & PT TR B, ACRES 0.18	APN: R2017806 Ref Parcel #: 2S132AA-09900 Taxes: \$2,919.65 Market Value: \$266,830 Assessed Value: \$162,630 Sales Price: \$0 Transfer Date: 6/29/1998
00600 16.24 ac 06500 11500 0.15 ac 0.18 ac 11600 06600 0.22 ac 0.13 ac 11700 0.16 ac 06800 11300 0.14 ac 0.18 ac	Legal Owner: Amanda & Robert Taylor Site Address: 14596 SW Oregon St Sherwood, OR 97140 Mailing Address: 14596 SW Oregon St Sherwood, OR 97140 Bedrooms: 3 Bathrooms: 2 Building SqFt: 2,008 Lot Acres: 0.18 Year Built: 1997 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 6, ACRES 0.18	APN: R2036396 Ref Parcel #: 2S132AA-11500 Taxes: \$4,194.90 Market Value: \$494,110 Assessed Value: \$233,670 Sales Price: \$162,000 Transfer Date: 4/27/2011
09900         0.18 ac         06500         11500           09800         0.15 ac         0.18 ac         0.18 ac           0.12 ac         06600         0.18 ac         0.18 ac           0.11 ac         06700         0.13 ac         06700         11400           0.11 ac         06700         11400         0.13 ac         06900           0.14 ac         06900         0.14 ac         0614 ac	Legal Owner: Gabriel Tanoue Site Address: 14616 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14616 SW Brickyard Dr Sherwood, OR Bedrooms: 2 Bathrooms: 3 Building SqFt: 1,470 Lot Acres: 0.13 Year Built: 1991 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 2, ACRES 0.13	APN: R2017769 Ref Parcel #: 2S132AA-06600 Taxes: \$1,806.34 Market Value: \$265,570 Assessed Value: \$100,620 Sales Price: \$0 Transfer Date:



09700 06700 0.11 ac 0.13 ac 09500 0.14 ac 06900 0.14 ac 06900 0.14 ac 07000 1.02 ac 09300 0.13 ac 0.14 ac 07100 09100 0.13 ac 0.14 ac 07100	Legal Owner: Hyunsuk Seo & Bridget Loftis Site Address: 14645 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14645 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,776 Lot Acres: 0.12 Year Built: 1991 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 30, ACRES 0.12	APN: R2017801 Ref Parcel #: 2S132AA-09400 Taxes: \$2,567.57 Market Value: \$270,800 Assessed Value: \$143,020 Sales Price: \$359,900 Transfer Date: 12/17/2021
07300 07400 08900 0.13 ac 0.22 ac 0.11 ac 08800 0.7500 0.13 ac 0.15 ac 07800 07700 0.13 ac 0.13 ac 07900 0.13 ac 01101 08000 4.94 ac 0.13 ac	Legal Owner: Paul & Stephanie Spath Site Address: 14738 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14738 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,512 Lot Acres: 0.13 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 13, ACRES 0.13	APN: R2017780 Ref Parcel #: 2S132AA-07700 Taxes: \$2,751.55 Market Value: \$267,330 Assessed Value: \$153,270 Sales Price: \$0 Transfer Date:
and Conset	Legal Owner: Sherwood City Of Site Address: Ns # NS # NS Sherwood, OR Mailing Address: 22560 SW Pine St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 2.04 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 2.04	APN: R2027564 Ref Parcel #: 2S128C0-00204 Taxes: \$0.00 Market Value: \$32,640 Assessed Value: \$0 Sales Price: \$0 Transfer Date:
	Legal Owner: Harsch Investment Properties L Site Address: 21600 SW Oregon St Sherwood, OR 97140 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 38.82 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 38.82	APN: R547475 Ref Parcel #: 2S128C0-00600 Taxes: \$5,540.47 Market Value: \$8,111,560 Assessed Value: \$308,620 Sales Price: \$6,000,000 Transfer Date: 11/14/2018



07300 0.13 ac 11000 07400 0.27 ac 00200 0.22 ac 3.69 ac 07500 00190 0.15 ac 0.07 ac 01101 4.94 ac 00300 5.24 ac

Legal Owner: Sherwood City Of Site Address: Ns # Ns # NS Sherwood, OR Mailing Address: 22560 SW Pine St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 0.07 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 0.07

Site Address: 22208 SW Orland St Sherwood, OR 97140

Lot Acres: 1.02

Bathrooms: 0

Year Built: 0

Building SqFt: 0



School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ORLAND VILLA, LOT A, ACRES 1.02 Legal Owner: Harsch Investment Properties L Site Address: NS Unincorporated, OR Mailing Address: 1121 SW Salmon St STE 500 Portland, OR Bedrooms: 0 Bathrooms: 0 Lot Acres: 7.00 Building SqFt: 0 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin

Legal: ACRES 7.00, POTENTIAL ADDL TAX LIABILITY

Legal Owner: Harsch Investment Properties L Site Address: 14260 SW Tonguin Rd Sherwood, OR 97140 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR Bedrooms: 2 Bathrooms: 1 Building SqFt: 1,656 Lot Acres: 3.00 Year Built: 1974 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 3.00, POTENTIAL ADDL TAX LIABILITY

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APN: R1161655 Ref Parcel #: 2S132AA-00190 Taxes: \$0.00 Market Value: \$6,100 Assessed Value: \$0 Sales Price: \$0 Transfer Date:

APN: R1308472 Ref Parcel #: 2S132AA-06200 Taxes: \$0.00 Market Value: \$86,700 Assessed Value: \$0 Sales Price: \$0 Transfer Date:

APN: R557971 Ref Parcel #: 2S13300-00200 Taxes: \$54.07 Market Value: \$1,462,670 Assessed Value: \$3,560 Sales Price: \$0 Transfer Date:

APN: R557980 Ref Parcel #: 2S13300-00201 Taxes: \$2,636.26 Market Value: \$762,230 Assessed Value: \$178,690 Sales Price: \$0 Transfer Date:



00600 38:82 ac 00401 7.89 ac 00300 0.82 ac 00403 1.05 ac	Legal Owner: Sherwood Commerce Center Llc Site Address: 14250 SW Tonquin Rd Sherwood, OR 97140 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,722 Lot Acres: 0.82 Year Built: 1971 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 0.82	APN: R557999 Ref Parcel #: 2S13300-00300 Taxes: \$2,427.83 Market Value: \$191,380 Assessed Value: \$164,590 Sales Price: \$900,000 Transfer Date: 5/20/2021
8	Legal Owner: Harsch Investment Properties L Site Address: 14240 SW Tonquin Rd Sherwood, OR 97140 Mailing Address: 1121 SW Salmon St STE 500 Portland, OR Bedrooms: 4 Bathrooms: 2 Building SqFt: 2,024 Lot Acres: 7.89 Year Built: 1960 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 7.89, POTENTIAL ADDL TAX LIABILITY	APN: R558015 Ref Parcel #: 2S13300-00401 Taxes: \$3,651.00 Market Value: \$1,864,160 Assessed Value: \$247,410 Sales Price: \$0 Transfer Date:
00600 38.82 ac 00300 0.82 ac 00401 7.89 ac 00403 1.05 ac	Legal Owner: W John Site Address: NS Unincorporated, OR Mailing Address: 1121 SW Salmon St STE 500 Portland, OR Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 1.05 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 1.05	APN: R558033 Ref Parcel #: 2S13300-00403 Taxes: \$271.35 Market Value: \$219,400 Assessed Value: \$18,390 Sales Price: \$0 Transfer Date:
ct Rd	Legal Owner: Sherwood City Of Site Address: Ns # NS # NS Sherwood, OR Mailing Address: 22560 SW Pine St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 5.24 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: 1993-010 PARTITION PLAT, LOT 2, ACRES 5.24	APN: R2031461 Ref Parcel #: 2S133BB-00300 Taxes: \$0.00 Market Value: \$1,674,700 Assessed Value: \$0 Sales Price: \$0 Transfer Date:



07000         11200           0.13 ac         0.18 ac           09200         07200           0.14 ac         0.13 ac           09100         07300           0.12 ac         0.13 ac           09000         0.21 ac           0.15 ac         07500           0.7700         0.15 ac           0.13 ac         4.94 ac	Legal Owner: Abdallah Salame Site Address: 14694 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14694 SW Brickyard Dr Sherwood, OR Bedrooms: 4 Bathrooms: 2 Building SqFt: 1,792 Lot Acres: 0.13 Year Built: 1992 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 9, ACRES 0.13	APN: R2017776 Ref Parcel #: 2S132AA-07300 Taxes: \$2,613.26 Market Value: \$293,020 Assessed Value: \$145,560 Sales Price: \$200,000 Transfer Date: 12/18/2015
10200         09900         06500           0.02 ac         0.18 ac         015 ac           0.6100         09800         06600           0.1 ac         09700         013 ac           06200         0.11 ac         06700           1.02 ac         0.13 ac         06700           0.13 ac         0.13 ac         06800           0.14 ac         0.14 ac         05700           0.14 ac         0.14 ac         06900           0.1 ac         0.12 ac         0.14 ac	Legal Owner: Carol Riggs Site Address: 14619 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14619 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 1 Building SqFt: 1,100 Lot Acres: 0.11 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 33, ACRES 0.11	APN: R2017804 Ref Parcel #: 2S132AA-09700 Taxes: \$2,441.10 Market Value: \$262,980 Assessed Value: \$135,980 Sales Price: \$105,000 Transfer Date: 10/28/1996
	Legal Owner: Pride Properties Investments L Site Address: 21287 SW Oregon St Sherwood, OR 97140 Mailing Address: Po Box 820 Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 11,300 Lot Acres: 3.29 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 3.29	APN: R547386 Ref Parcel #: 2S128C0-00100 Taxes: \$12,228.62 Market Value: \$1,916,220 Assessed Value: \$681,190 Sales Price: \$1,200,000 Transfer Date: 2/28/2014
	Legal Owner: Bruce & Karen Polley Site Address: 21720 SW Oregon St Sherwood, OR 97140 Mailing Address: Po Box 1489 Sherwood, OR 97140 Bedrooms: 2 Bathrooms: 3 Building SqFt: 1,568 Lot Acres: 9.23 Year Built: 1984 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 9.23, UNZONED FARMLAND LIEN \$2,896.94, Co	APN: R1492192 Ref Parcel #: 2S128C0-00500 Taxes: \$4,531.64 Market Value: \$6,000 Assessed Value: \$252,430 Sales Price: \$225,000 Transfer Date: 3/24/2008



11700 11900 06800 0.16 ac 0.2 ac 0:14 ac 12100 06900 0:17/ac 0.14 ac 12200 11200 -07100 0.18 ac 0.16 ac reake 0.13 ac 11100. 07200 0.21 ac 0.13 ac-11000 07400 0.27 ac 0.22-ac

Legal Owner: Jason Berg & Rebecca Osmond Site Address: 22095 SW Chesapeake PI Sherwood, OR Mailing Address: 22095 SW Chesapeake PI Sherwood, OR Bedrooms: 4 Bathrooms: 4 Building SqFt: 3,026 Lot Acres: 0.18 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 3, ACRES 0.18

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0.12 ac 0.13 ac

Legal Owner: Orwa Sherwood Llc Site Address: 21389 SW Oregon St Sherwood, OR 97140 Mailing Address: 8320 NE Highway 99 Vancouver, WA 98665 Bedrooms: 0 Bathrooms: 0 Building SqFt: 1,344 Lot Acres: 3.18 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 3.18

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APN: R2036393 Ref Parcel #: 2S132AA-11200 Taxes: \$5,788.60 Market Value: \$662,370 Assessed Value: \$322,450 Sales Price: \$297.500 Transfer Date: 5/19/2005

APN: R547402 Ref Parcel #: 2S128C0-00102 Taxes: \$3,379.50 Market Value: \$649,030 Assessed Value: \$188,250 Sales Price: \$200,000 Transfer Date: 1/17/2003

00600	Legal Owner: NN & Astrida	a Clarice	APN: R2017807	
16.24 ac	Site Address: 22106 SW O	rland St Sherwood, OR 97140	Ref Parcel #: 2S132AA-10000	
06300 SW Oregon St	Mailing Address: 10410 Ra	iinier Ave S Seattle, WA 98178	Taxes: \$1,264.76	
0.19 ac 10200	Bedrooms: 0		Market Value: \$173,530	
03200 0.02 ac 09900	Bathrooms: 0		Assessed Value: \$70,450	
0.11 ac 0.18 ac	Building SqFt: 0	Lot Acres: 0.12	Sales Price: \$0	
03300 06100 043 20	Year Built: 1992		Transfer Date:	
0.1 ac 0.1 ac	School District: Sherwood S	School District: Sherwood School District 88j		
-03500 05900 09600	Neighborhood: Sherwood -	Tualatin		
0.1 ac 0.1 ac 0.15 ac	Legal: ATLEY ESTATES, LC	DT 36, ACRES 0.12		
09600 06700 11700	Legal Owner: Audrey & Day	wn Oleary	APN: R2017773	
0.15 ac 0.13 ac 0.16 ac	Site Address: 14658 SW Br	ickyard Dr Sherwood, OR 97140	Ref Parcel #: 2S132AA-07000	
09500 11300 0,14 ac 07000 0,18 ac	Mailing Address: 14658 SV	V Brickyard Dr Sherwood, OR	Taxes: \$3,677.55	
	Bedrooms: 3		Market Value: \$298,030	
09400 0.13 ac 11200	Bathrooms: 2		Assessed Value: \$204,850	
0.12 ac 11200	Building SqFt: 1,611	Lot Acres: 0.13	Sales Price: \$115,000	
09300 07100 0.10 ac	Year Built: 1994		Transfer Date: 4/7/2014	
0.14 ac 0.13 ac 11100	School District: Sherwood S	School District 88j		
09100 07200 0.21 ac	Neighborhood: Sherwood -	Tualatin		

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Neighborhood: Sherwood - Tualatin

Legal: ATLEY ESTATES, LOT 6, ACRES 0.13



	Legal Owner: Northstar Chemical Inc Site Address: No Site Address, OR Mailing Address: 14200 SW Tualatin Sherwood Rd STE B Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 0.00 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: NO LEGAL	APN: R2077141 Ref Parcel #: 2S128C0-00200 Taxes: \$9,194.35 Market Value: \$492,460 Assessed Value: \$492,460 Sales Price: \$0 Transfer Date:
09200 11100 0.14 ac 07300 0.21 ac 09000 0.13 ac 11000 0.15 ac 0.27 ac 07600 07500 0.13 ac 0.45 ac 07700 01101 0.13 ac 0.101 0.13 ac 0.15 ac 07900 4.94 ac 0.13 ac	Legal Owner: Alejandra Nicolas Site Address: 14718 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14718 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,732 Lot Acres: 0.15 Year Built: 1993 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 11, ACRES 0.15	APN: R2017778 Ref Parcel #: 2S132AA-07500 Taxes: \$2,645.97 Market Value: \$288,020 Assessed Value: \$147,390 Sales Price: \$340,000 Transfer Date: 6/4/2021
09800         06500         11600           012 ac         0.15 ac         0.22 ac           09700         06700         0           011 ac         0.13 ac         11400           09600         06800         0.21 ac           015 ac         0.14 ac         11300           09500         06900         0.18 ac           0114 ac         0.14 ac         0.120           012 ac         0.14 ac         0.14 ac           09400         11200         07000         0.18 ac           0.13 ac         0.13 ac         0.13 ac         0.13 ac	Legal Owner: Cindy Nevill Site Address: 14642 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14642 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,620 Lot Acres: 0.14 Year Built: 1990 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 4, ACRES 0.14	APN: R2017771 Ref Parcel #: 2S132AA-06800 Taxes: \$1,994.36 Market Value: \$231,930 Assessed Value: \$111,090 Sales Price: \$0 Transfer Date:
09700         11500         11700           0.11 ac         0.18 ac         0.16 ac           09600         0.18 ac         0.16 ac           09600         0.14 ac         0.21 ac           09500         06800         11400           0.14 ac         0.21 ac         0.9500           0.14 ac         0.14 ac         0.18 ac           09400         0.14 ac         0.18 ac           09400         07000         0.18 ac           0.12 ac         07000         0.18 ac           09200         11400         0.21 ac	Legal Owner: John & Orfilio Naranjo Site Address: 14650 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14650 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,188 Lot Acres: 0.14 Year Built: 1992 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 5, ACRES 0.14	APN: R2017772 Ref Parcel #: 2S132AA-06900 Taxes: \$2,036.17 Market Value: \$252,240 Assessed Value: \$113,420 Sales Price: \$225,000 Transfer Date: 5/17/2017



09900         06500         11500           018 ac         0.15 ac         0.18 ac           09800         0.15 ac         11600           0.12 ac         0.22 ac         0700           09700         06700         11400           0.11 ac         0.21 ac         0.21 ac           09600         06800         0.18 ac           09600         06800         0.18 ac           09600         0.14 ac         11300           0.18 ac         0.18 ac         0.18 ac           09400         07000         0.13 ac	Legal Owner: Bonnie Miller Site Address: 14630 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14630 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,296 Lot Acres: 0.13 Year Built: 1993 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 3, ACRES 0.13	APN: R2017770 Ref Parcel #: 2S132AA-06700 Taxes: \$3,021.50 Market Value: \$292,600 Assessed Value: \$168,310 Sales Price: \$90,000 Transfer Date: 3/23/2016
-07000         3         12200           0.13 ac         11100°0,16 ac           07100         11100°0,16 ac           0.13 ac         0.21 ac           07300         11000           0.13 ac         0.27 ac           07400         0.22 ac           07500         00190           0.15 ac         0.07 ac           01101         00300-           4.94 ac         5.24 ac	Legal Owner: Richard & Sandra Miles Site Address: 22115 SW Chesapeake PI Sherwood, OR 97140 Mailing Address: 22115 SW Chesapeake PI Sherwood, OR Bedrooms: 3 Bathrooms: 1 Building SqFt: 1,880 Lot Acres: 0.27 Year Built: 1996 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 1, ACRES 0.27	APN: R2036391 Ref Parcel #: 2S132AA-11000 Taxes: \$4,116.86 Market Value: \$421,210 Assessed Value: \$229,320 Sales Price: \$160,500 Transfer Date: 8/31/2000
SW MUTDOCK Rd	Legal Owner: Michael D & Lawrence D Kay Llc Site Address: 22210 SW Murdock Rd Sherwood, OR 97140 Mailing Address: 22210 SW Murdock Rd Sherwood, OR Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 4.94 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 4.94	APN: R552039 Ref Parcel #: 2S132AA-01101 Taxes: \$74,126.74 Market Value: \$9,115,640 Assessed Value: \$4,129,190 Sales Price: \$106,000 Transfer Date: 6/26/1995
07000         11200           0.13.ac         0:18 ac           09200         0.13 ac           0.14 ac         0.7300           0.13 ac         11000           09000         07400           0.15 ac         0.22 ac           0.13 ac         01101           07600         0.07 ac           0.13 ac         01101           07800         4.94 ac           0.13 ac         0.13 ac	Legal Owner: Zeb Menle Site Address: 14706 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14706 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,782 Lot Acres: 0.22 Year Built: 1990 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 10, ACRES 0.22	APN: R2017777 Ref Parcel #: 2S132AA-07400 Taxes: \$2,672.42 Market Value: \$316,000 Assessed Value: \$148,860 Sales Price: \$0 Transfer Date: 8/16/2021



06500         11800           0.15 ac 11500         0.18 ac           06600         11700           0.13 ac         0.16 ac           06800         11400           0.14 ac         0.21 ac           06900         11300           0.14 ac         0.21 ac           06900         11300           0.14 ac         0.18 ac           06900         11300           0.14 ac         0.18 ac           02 ac         0.2 ac           06900         11300           0.16 ac         12200           0.16 ac         12200	Legal Owner: Ryan & Cara Mcclung Site Address: 22075 SW Chesapeake PI Sherwood, OR Mailing Address: 11106 SW Oneida St Tualatin, OR 97062 Bedrooms: 6 Bathrooms: 6 Building SqFt: 3,306 Lot Acres: 0.21 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 5, ACRES 0.21	APN: R2036395 Ref Parcel #: 2S132AA-11400 Taxes: \$6,608.29 Market Value: \$724,900 Assessed Value: \$402,130 Sales Price: \$696,000 Transfer Date: 8/23/2021
10000         2           0.12 ac         09700         06700           06000         0.11 ac         0.13 ac           0.1 ac         06800         05900           05900         09509         0.14 ac           0.1 ac         0.14 ac         06900           05800         0.14 ac         06900           0.5800         0.14 ac         06900           0.5800         0.14 ac         06900           0.5800         0.12 ac         07000           0.1 ac         0.13 ac         05500           05500         09200         0.14 ac	Legal Owner: Katherine & James Mcburnett Site Address: 14637 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14637 SW Brickyard Dr Sherwood, OR Bedrooms: 2 Bathrooms: 3 Building SqFt: 1,773 Lot Acres: 0.14 Year Built: 1992 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 31, ACRES 0.14	APN: R2017802 Ref Parcel #: 2S132AA-09500 Taxes: \$3,011.88 Market Value: \$302,780 Assessed Value: \$167,770 Sales Price: \$81,000 Transfer Date: 3/7/2022
09100         07300         0.27 ac           0.12 ac         0.13 ac         0.27 ac           08900         07500         0.15 ac           07700         0.15 ac         07600           0.13 ac         0.13 ac         01101           0.13 ac         0.13 ac         0.13 ac           07800         01101         4.94 ac           0.13 ac         0.13 ac         0.13 ac	Legal Owner: Ola Hopkins Site Address: 14730 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14730 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,752 Lot Acres: 0.13 Year Built: 1993 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 12, ACRES 0.13	APN: R2017779 Ref Parcel #: 2S132AA-07600 Taxes: \$2,571.09 Market Value: \$261,130 Assessed Value: \$143,220 Sales Price: \$104,000 Transfer Date: 7/5/1996
11600 11800 0.22 ac 0.22 ac 11900 11700 0.2 ac 0.16 a: 12000 11400 0.19 ac 0.21 ac 12100 11200 0.17 ac 0.18 ac	Legal Owner: Calla Lilly Site Address: 22070 SW Chesapeake PI Sherwood, OR Mailing Address: 22070 SW Chesapeake PI Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,926 Lot Acres: 0.20 Year Built: 1994 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT PTS 9-10, ACRES 0.20	APN: R2036400 Ref Parcel #: 2S132AA-11900 Taxes: \$4,568.61 Market Value: \$433,050 Assessed Value: \$254,490 Sales Price: \$134,900 Transfer Date: 3/15/1995



06900         11300           -0.14 ac         0.18 ac           09300         07100           0.14 ac         0.18 ac           09200         67200           0.14 ac         0.13 ac           09100         67200           0.14 ac         0.13 ac           09100         07300           0.12 ac         0.13 ac           09000         0.13 ac           09100         07300           0.13 ac         0.27 ac           0.15 ac         0.1101	Legal Owner: David Krempley Site Address: 14680 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14680 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,766 Lot Acres: 0.13 Year Built: 1994 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 8, ACRES 0.13	APN: R2017775 Ref Parcel #: 2S132AA-07200 Taxes: \$2,597.90 Market Value: \$267,630 Assessed Value: \$144,710 Sales Price: \$0 Transfer Date:
09400         0.21 ac           0.12 ac         07000           09300         0.13 ac           0.14 ac         67100           0.13 ac         11200           0.14 ac         67100           0.13 ac         1100           09200         07200           0.14 ac         07100           0.13 ac         1100           09200         07200           0.13 ac         0.21 ac           0.14 ac         07200           0.13 ac         0.21 ac           0.14 ac         0.13 ac           0.13 ac         0.21 ac           0.14 ac         0.13 ac           0.13 ac         0.21 ac           0.13 ac         0.21 ac           0.13 ac         0.21 ac	Legal Owner: Meghan & Meghan Jackson Site Address: 14672 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14672 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,474 Lot Acres: 0.13 Year Built: 1991 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 7, ACRES 0.13	APN: R2017774 Ref Parcel #: 2S132AA-07100 Taxes: \$2,946.08 Market Value: \$256,750 Assessed Value: \$164,100 Sales Price: \$156,350 Transfer Date: 8/23/2005
09600 0.15 ac 09500 06800 0.14 ac 0.14 ac 09400 07000- 0.12 ac 0.13 ac 09300 07100- 0.14 ac 07100- 0.14 ac 07200- 0.14 ac 07200- 0.14 ac 07200- 0.13 ac 0.14 ac 07200- 0.13 ac 0.14 ac 0.14 ac	Legal Owner: Holly Jackson & William Lewis Site Address: 14665 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 32055 NE Corral Creek Rd Newberg, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,568 Lot Acres: 0.14 Year Built: 1993 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 29, TRACT PT D, ACRES 0.14	APN: R2017800 Ref Parcel #: 2S132AA-09300 Taxes: \$3,083.30 Market Value: \$296,090 Assessed Value: \$171,750 Sales Price: \$308,000 Transfer Date: 8/30/2019
	Legal Owner: J & L Rink Llc Site Address: 21433 SW Oregon St Sherwood, OR 97140 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 154,399 Lot Acres: 4.62 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin	APN: R1032055 Ref Parcel #: 2S128C0-00202 Taxes: \$9,436.01 Market Value: \$1,112,640 Assessed Value: \$525,620 Sales Price: \$0 Transfer Date:

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Legal: ACRES 4.62



11400 0.21 ac 12100 11300 0.18 ac 0.18 ac 0.18 ac 0.18 ac 0.18 ac 0.18 ac 0.18 ac 0.16 ac 0.200 11000 0.27 ac	Legal Owner: David Hiser Site Address: 22100 SW Chesapeake PI Sherwood, OR Mailing Address: 22100 SW Chesapeake PI Sherwood, OR Bedrooms: 3 Bathrooms: 3 Building SqFt: 2,035 Lot Acres: 0.16 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 13, ACRES 0.16	APN: R2036403 Ref Parcel #: 2S132AA-12200 Taxes: \$4,783.28 Market Value: \$441,420 Assessed Value: \$266,450 Sales Price: \$235,100 Transfer Date: 12/21/2009
09500 06900 0.14 ac 0.14 ac 0.14 ac 0.14 ac 0.13 ac 09200 07200 0.14 ac 0.13 ac 0.13 ac 0.14 ac 0.13 ac 0.13 ac 0.14 ac 0.13 ac 0.13 ac 0.12 ac 0.13 ac 0.11 ac 0.22 ac 0.11 ac 0.22 ac 0.11 ac 0.22 ac 0.11 ac 0.11 ac 0.22 ac 0.11 ac 0.12 ac 0.12 ac 0.12 ac 0.13 ac 0.11 ac 0.12 ac 0.13 ac 0.14	Legal Owner: Kenneth & Patricia Higgason Site Address: 14673 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14673 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 2,034 Lot Acres: 0.14 Year Built: 1994 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 28 & TRACT PT D, ACRES 0.14	APN: R2017796 Ref Parcel #: 2S132AA-09200 Taxes: \$2,932.40 Market Value: \$289,960 Assessed Value: \$163,340 Sales Price: \$151,900 Transfer Date: 8/23/2001
11600 11800 0.22 ac 0.18 ac 11700 12000 0.16 ac 0.19 ac 12100 0.17 ac 12200 0.16 ac 12000 0.16 ac 0.27 ac 3.69 ac	Legal Owner: Preston & Rochelle Griffin Site Address: 22090 SW Chesapeake PI Sherwood, OR Mailing Address: 22090 SW Chesapeake PI Sherwood, OR Bedrooms: 3 Bathrooms: 3 Building SqFt: 2,160 Lot Acres: 0.17 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 12, ACRES 0.17	APN: R2036402 Ref Parcel #: 2S132AA-12100 Taxes: \$4,797.52 Market Value: \$454,520 Assessed Value: \$267,240 Sales Price: \$304,500 Transfer Date: 10/28/2015
09400 07000 0.12 ac 0.13 ac 09200 07200 0.14 ac 0.13 ac th06200 09100 07300 ta1.02 ac 0.12 ac 0.13 ac at 0.2 ac 0.12 ac 0.13 ac 08900 09000 07400 0.11 ac 0.15 ac 0.15 ac	Legal Owner: Daniel Goodyear Site Address: 14685 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14685 SW Brickyard Dr Sherwood, OR Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,344 Lot Acres: 0.12 Year Built: 1993 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 27, ACRES 0.12	APN: R2017795 Ref Parcel #: 2S132AA-09100 Taxes: \$1,957.95 Market Value: \$265,160 Assessed Value: \$109,060 Sales Price: \$113,000 Transfer Date: 7/31/1997



09900 0.18 ac 06100 09700 0.1 ac 06700 0.1 ac 0.11 ac 06000 09600 0.1 ac 0.15 ac 06700 0.13 ac 0.13 ac 06800 06800 06800 06800 06200 09500 0.14 ac 1.02 ac 0.14 ac 09400 06900 05600 0.12 ac 0.14 ac	Legal Owner: David Garcia & Marisol Vega Site Address: 14625 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14625 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,782 Lot Acres: 0.15 Year Built: 1992 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 32, ACRES 0.15	APN: R2017803 Ref Parcel #: 2S132AA-09600 Taxes: \$2,898.17 Market Value: \$265,150 Assessed Value: \$212,020 Sales Price: \$410,000 Transfer Date: 11/16/2021
-06900 0.14 ac 11200 0.7000 0.18 ac 0.13 ac 07200 11100 0.13 ac 0.21 ac 07300 11000 0.13 ac 0.27 ac 07500 01101 00200 0.15 ac 4.94 ac 3.69 ac	Legal Owner: Katharine Lingemann Site Address: 22105 SW Chesapeake PI Sherwood, OR Mailing Address: 22107 SW Chesapeake PI Sherwood, OR Bedrooms: 6 Bathrooms: 4 Building SqFt: 2,965 Lot Acres: 0.21 Year Built: 1997 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 2, ACRES 0.21	APN: R2036392 Ref Parcel #: 2S132AA-11100 Taxes: \$6,296.35 Market Value: \$559,380 Assessed Value: \$350,730 Sales Price: \$589,000 Transfer Date: 12/20/2021
00600 16.24 ac 11500 11600 0.18 ac 0.18 ac 0.22 ac	Legal Owner: Empyrean Real Estate Llc Site Address: 22045 SW Chesapeake PI Sherwood, OR Mailing Address: 13751 SW Rock Creek Rd Sheridan, OR Bedrooms: 3 Bathrooms: 2	APN: R2036397 Ref Parcel #: 2S132AA-11600 Taxes: \$3,352.10 Market Value: \$411,580 Assessed Value: \$186,720
06600         11700         11900           0.13 ac         0.16 ac         0.2 ac           06900         11300         12100           0.14 ac         0.18 ac         0.17 ac	Building SqFt: 2,559 Lot Acres: 0.22 Year Built: 1901 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT PT 7, ACRES 0.22	Sales Price: \$331,000 Transfer Date: 9/26/2016



	Legal Owner: Dahlke Lane Properties Llc Site Address: 21425 SW Dahlke Ln Sherwood, OR 97140 Mailing Address: 4677 SE Concord Rd Portland, OR 97267 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 4.97 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 4.97	APN: R547493 Ref Parcel #: 2S128C0-00701 Taxes: \$550.00 Market Value: \$523,430 Assessed Value: \$37,280 Sales Price: \$0 Transfer Date:
09300         07100           0.14 ac         0.13 ac           tley         09100         07300           a.06200         0.12 ac         0.13 ac           a1.02 ac         07400         072 ac           0.11 ac         07500         0.8800           0.11 ac         07500         0.8800           0.11 ac         07600         0.13 ac           0.11 ac         0.7600         0.13 ac           0.13 ac         0.13 ac         0.13 ac	Legal Owner: Debra Clemmens Site Address: 14723 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14723 SW Brickyard Dr Sherwood, OR Bedrooms: 2 Bathrooms: 3 Building SqFt: 1,340 Lot Acres: 0.15 Year Built: 1992 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 26, ACRES 0.15	APN: R2017794 Ref Parcel #: 2S132AA-09000 Taxes: \$927.10 Market Value: \$177,140 Assessed Value: \$51,640 Sales Price: \$0 Transfer Date:
11500       11600       0.18 ac         0.18 ac       0.22 ac       11900         0.18 ac       0.22 ac       11900         11400       0.16 ac       12000         0.21 ac       0.19 ac       12100         0.14 ac       0.18 ac       12100         0.13 ac       0.18 ac       0.17 ac	Legal Owner: Colleen & James Buckner Site Address: 22065 SW Chesapeake PI Sherwood, OR Mailing Address: 59 Margate St Daly City, CA 94015 Bedrooms: 3 Bathrooms: 3 Building SqFt: 1,780 Lot Acres: 0.16 Year Built: 1994 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 8, ACRES 0.16	APN: R2036398 Ref Parcel #: 2S132AA-11700 Taxes: \$4,359.68 Market Value: \$419,040 Assessed Value: \$242,850 Sales Price: \$362,000 Transfer Date: 3/18/2019
06600         11600           0.13 ac         0.22 ac           06800         12000           0.14 ac         0.19 ac           06900         11300           0.14 ac         0.18 ac           07000         0.18 ac           0.18 ac         0.18 ac           0.13 ac         0.18 ac           0.13 ac         0.18 ac           0.7200         110003           0.13 ac         0.27 ac	Legal Owner: Sara & Anthony Betz Site Address: 22085 SW Chesapeake PI Sherwood, OR Mailing Address: 10014 SW Conestoga Dr APT 158 Bedrooms: 3 Bathrooms: 3 Building SqFt: 1,778 Lot Acres: 0.18 Year Built: 1995 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT 4, ACRES 0.18	APN: R2036394 Ref Parcel #: 2S132AA-11300 Taxes: \$4,277.95 Market Value: \$418,020 Assessed Value: \$238,300 Sales Price: \$436,000 Transfer Date: 1/13/2021



00600 16.24 ac 09900 0.18 ac 09800 0.12 ac 0.15 ac 0.13 ac 0.13 ac 0.14 ac 0.15 ac	Legal Owner: Keith Beaumont Site Address: 14602 SW Brickyard Dr Sherwood, OR 97140 Mailing Address: 14602 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 2 Building SqFt: 1,080 Lot Acres: 0.15 Year Built: 1992 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT 1, ACRES 0.15	APN: R2017768 Ref Parcel #: 2S132AA-06500 Taxes: \$2,350.49 Market Value: \$240,710 Assessed Value: \$130,930 Sales Price: \$137,500 Transfer Date: 7/6/2015
00600 16.24 ac 06300 SW Oregon St 0.19 ac 10200 03200 0.02 ac 09900 0.11 ac 0.18 ac 06200 1.02 ac 09700 0.14 ac 0.11 ac	Legal Owner: Atley Estates Hoa Site Address: 14673 SW Oregon St Sherwood, OR 97140 Mailing Address: 14673 SW Brickyard Dr Sherwood, OR Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 0.02 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ATLEY ESTATES, LOT PT B, ACRES 0.02	APN: R2017809 Ref Parcel #: 2S132AA-10200 Taxes: \$0.00 Market Value: \$0 Assessed Value: \$0 Sales Price: \$0 Transfer Date:
	Legal Owner: Allied Systems Company Site Address: No Site Address, OR Mailing Address: 21433 SW Oregon St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 0.00 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: NO LEGAL	APN: R2024911 Ref Parcel #: 2S128C0-00201 Taxes: \$70,884.44 Market Value: \$3,833,580 Assessed Value: \$3,833,580 Sales Price: \$0 Transfer Date:
	Legal Owner: Allied Systems Company Site Address: No Site Address, OR Mailing Address: 21433 SW Oregon St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 0.00 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: NO LEGAL	APN: R2180039 Ref Parcel #: 2S128C0-00501 Taxes: \$5,946.15 Market Value: \$321,580 Assessed Value: \$321,580 Sales Price: \$0 Transfer Date:



00400 00600 5.3 ac 16.24 ac SW Orego 11600 11800 0.22 ac 0.18 ac 11-700 0.16 ac 11900 0.2 ac 11400 12000 12100 0.21 ac 0.19 ac -0.17 ac

Legal Owner: 22060 Sw Chesapeake Place Llc Site Address: 22060 SW Chesapeake PI Sherwood, OR Mailing Address: Po Box 1626 Sherwood, OR 97140 Bedrooms: 3 Bathrooms: 2 Building SqFt: 1,716 Lot Acres: 0.18 Year Built: 1997 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: CHESAPEAKE PARK, LOT PT 7 & PTS 9-10, ACRES 0.18

Site Address: NS Unincorporated, OR Mailing Address: 169 N 1st Ave # 42 Hillsboro, OR 97124 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 0.07, CODE SPLIT



Legal Owner: United States Of America Dept Site Address: NS Unincorporated, OR Mailing Address: 911 NE 11th Ave Portland, OR 97232 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 19.62 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: 1992-008 PARTITION PLAT, LOT 2, ACRES 19.62, CODE SPLIT

APN: R2019382 Ref Parcel #: 2S13300-02500 Taxes: \$0.00 Market Value: \$98,100

Ref Parcel #: 2S128C0-00400

Assessed Value: \$0 Sales Price: \$0 Transfer Date:

Legal Owner: Bruce D & Karen M Polley APN: R547466 Site Address: 21720 SW Oregon St Sherwood, OR 97140 Ref Parcel #: 2S128C0-00500 Mailing Address: Po Box 1489 Sherwood, OR 97140 Taxes: \$112.42 Bedrooms: 0 Market Value: \$6,000 Bathrooms: 0 Assessed Value: \$6,000 Building SqFt: 0 Lot Acres: 0.30 Sales Price: \$225,000 Year Built: 0 Transfer Date: 3/24/2008 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 0.3, UNZONED FARMLAND LIEN \$367.19, CODE SPLIT, LAND HOOK,

Lot Acres: 0.07

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Ref Parcel #: 2S132AA-11800 Taxes: \$3,783.11 Market Value: \$384,920 Assessed Value: \$210,730 Sales Price: \$207.000 Transfer Date: 9/12/2005

APN: R2144297

Taxes: \$0.00

Sales Price: \$0

Transfer Date:

Market Value: \$1,120

Assessed Value: \$0

APN: R2036399

**Customer Service Department** Phone: 503.219.8746(TRIO) Email: cs.oregon@firstam.com Report Generated: 5/9/2022









School District: Sherwood School District 88j

Neighborhood: Sherwood - Tualatin

Mailing Address: Po Box 100918 Atlanta, GA 30384

Legal Owner: Washington County

School District: Sherwood School District 88j

Neighborhood: Sherwood - Tualatin

Site Address: No Site Address, OR

Legal Owner: Banc Of America

Bedrooms: 0

Bathrooms: 0

Year Built: 0

Bedrooms: 0

Bathrooms: 0 Building SqFt: 0

Building SqFt: 0

Legal: NO LEGAL

Year Built: 0

Building SqFt: 36,133

Legal: ACRES 17.59

Site Address: 14200 SW Tualatin Sherwood Rd Sherwood,

Mailing Address: 14200 SW Tualatin Sherwood Rd Sherwood,

Lot Acres: 12.14

Lot Acres: 0.00

Lot Acres: 0.00

Customer Service Department Phone: 503.219.8746(TRIO) Email: cs.oregon@firstam.com Report Generated: 5/9/2022

### APN: R547411

Ref Parcel #: 2S128C0-00200 Taxes: \$63,846.81 Market Value: \$9,209,340 Assessed Value: \$3,556,550 Sales Price: \$111,000 Transfer Date: 3/1/2022

APN: R2161833 Ref Parcel #: 2S128C0-00201 Taxes: \$6,294.86 Market Value: \$340,440 Assessed Value: \$340,440 Sales Price: \$0 Transfer Date:

APN: R2185802 Ref Parcel #: 2S128C0-00201 Taxes: \$1,231.63 Market Value: \$69,220 Assessed Value: \$68,600 Sales Price: \$0 Transfer Date:



Legal Owner: J & L Rink Llc Site Address: 21433 SW Oregon St Sherwood, OR 97140 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 154,399 Lot Acres: 7.68 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 7.68 APN: R955862 Ref Parcel #: 2S128C0-00201 Taxes: \$135,209.19 Market Value: \$7,819,250 Assessed Value: \$7,531,770 Sales Price: \$0 Transfer Date:





Legal Owner: Allied Systems Company Site Address: 21555 SW Oregon St Sherwood, OR 97140 Mailing Address: 21433 SW Oregon St Sherwood, OR 97140 Bedrooms: 0 Bathrooms: 0 Building SqFt: 0 Lot Acres: 12.32 Year Built: 0 School District: Sherwood School District 88j Neighborhood: Sherwood - Tualatin Legal: ACRES 21.74 APN: R989657 Ref Parcel #: 2S128C0-00501 Taxes: \$156,579.86 Market Value: \$9,026,150 Assessed Value: \$8,722,210 Sales Price: \$0 Transfer Date:



# Exhibit J: CWS Service Provider Letter



**Service Provider Letter** 

CWS File Number

21-001024

This form and the attached conditions will serve as your Service Provider Letter in accordance with Clean Water Services Design and Construction Standards (R&O 19-5, as amended by R&O 19-22).

Jurisdiction:	City of Sherwood	Review Type:		Tier 2 Anal	ysis
Site Address / Location:	21720 SW Oregon ST Sherwood, OR 97140	SPL Issue Date: SPL Expiration Date:		May 12, 2021 May 12, 2023	
Applicant Inform	nation:	Owner Informa	tion:		
Name STACEY REED		Name BRUCE POLLEY			
Company Address	AKS ENGINEERING & FORESTRY LLC 12965 SW HERMAN RD SUITE 100	OREGON S Company LLC PO BOX 14 Address SHERWOO	STREET BUSINESS PARK 489		
	TUALATIN, OR 97062		SHERWOOD, OR 97140		
Phone/Fax	(503) 563-6151	Phone/Fax	(503) 625	-7058	
E-mail:	staceyr@aks-eng.com	E-mail:	bruce@airteknw.com		
Tax lot ID           2S128C000500           2S128C000501		Development Activity Oregon Street Business Park Off-site Sanitary Sewer Connection			
Pre-Development Site Conditions:         Sensitive Area Present:       X       On-Site       X       Off-Site         Vegetated Corridor Width:       50       Vegetated Corridor Width:       Variable         Vegetated Corridor Condition:       Marginal/Degraded       Vegetated Corridor Width:       Vegetated Corridor				nditions: e X Off-Site e	
Vegetated Corri	dor Required:	Square Foota	ge to be enh	anced:	
Encroachments into Pre-Development Vegetated Corridor:         Type and location of Encroachment:         Stormwater Facility (Permanent Encroachment; Mitigation Required)         Stormwater Outfall (Permanent Encroachment; No Mitigation Required)         Off-site Sanitary Sewer Connection (Temporary Encroachment; Restoration Planting In-place Required)			equired)	Square Footage: 19,304 100 994	
Mitigation Requirements:					
Type/Location Sq Per R&O 13-12 VC Mitigation Requirement for VC Encroachment Associated with Wetland Impacts is Met Through Wetland Mitigation Bank Purchase				Sq. Ft./Ratio/Cost	
X Conditions A	Attached X Development Figures Attached (	3) Planting P	an Attached		Report Required

This Service Provider Letter does NOT eliminate the need to evaluate and protect water quality sensitive areas if they are subsequently discovered on your property.

# In order to comply with Clean Water Services water quality protection requirements the project must comply with the following conditions:

- No structures, development, construction activities, gardens, lawns, application of chemicals, uncontained areas of hazardous materials as defined by Oregon Department of Environmental Quality, pet wastes, dumping of materials of any kind, or other activities shall be permitted within the sensitive area or Vegetated Corridor which may negatively impact water quality, except those allowed in R&O 19-5, Chapter 3, as amended by R&O 19-22.
- 2. Prior to any site clearing, grading or construction the Vegetated Corridor and water quality sensitive areas shall be surveyed, staked, and temporarily fenced per approved plan. During construction the Vegetated Corridor shall remain fenced and undisturbed except as allowed by R&O 19-5, Section 3.06.1, as amended by R&O 19-22 and per approved plans.
- 3. Prior to activity within the sensitive area, the applicant shall gain authorization for the project from the Oregon Department of State Lands (DSL) and US Army Corps of Engineers (USACE). The applicant shall provide Clean Water Services or its designee (appropriate city) with copies of all DSL and USACE project authorization permits.
- 4. An approved Oregon Department of Forestry Notification is required for one or more trees harvested for sale, trade, or barter, on any non-federal lands within the State of Oregon.
- Prior to any ground disturbing activities, an erosion control permit is required. Appropriate Best Management Practices (BMP's) for Erosion Control, in accordance with Clean Water Services' Erosion Prevention and Sediment Control Planning and Design Manual, shall be used prior to, during, and following earth disturbing activities.
- 6. Prior to construction, a Stormwater Connection Permit from Clean Water Services or its designee is required pursuant to Ordinance 27, Section 4.B.
- Activities located within the 100-year floodplain shall comply with R&O 19-5, Section 5.10, as amended by R&O 19-22.
- 8. Removal of native, woody vegetation shall be limited to the greatest extent practicable.
- 9. The water quality swale and detention pond shall be planted with Clean Water Services approved native species, and designed to blend into the natural surroundings.
- 10. Should final development plans differ significantly from those submitted for review by Clean Water Services, the applicant shall provide updated drawings, and if necessary, obtain a revised Service Provider Letter.
- 11. For remaining on-site Vegetated Corridors up to 50 feet wide, the applicant shall enhance the entire Vegetated Corridor to meet or exceed good corridor condition as defined in R&O 19-5, Section 3.14.2, Table 3-3, as amended by R&O 19-22.
- 12. Prior to any site clearing, grading or construction, the applicant shall provide Clean Water Services with a Vegetated Corridor enhancement/restoration plan. Enhancement/restoration of the Vegetated Corridor shall be provided in accordance with R&O 19-5, Appendix A, as amended by R&O 19-22, and shall include planting specifications for all Vegetated Corridor, including any cleared areas larger than 25 square feet in Vegetated Corridor rated ""good.""
- 13. Prior to installation of plant materials, all invasive vegetation within the Vegetated Corridor shall be removed per methods described in Clean Water Services' Integrated Pest Management Plan, 2019. During removal of invasive vegetation care shall be taken to minimize impacts to existing native tree and shrub species.
- Clean Water Services and/or City shall be notified 72 hours prior to the start and completion of enhancement/restoration activities. Enhancement/restoration activities shall comply with the guidelines provided in Planting Requirements (R&0 19-5, Appendix A, as amended by R&O 19-22).
- 15. Maintenance and monitoring requirements shall comply with R&O 19-5, Section 2.12.2, as amended by R&O 19-22. If at any time during the warranty period the landscaping falls below the 80% survival level, the owner shall reinstall all deficient planting at the next appropriate planting opportunity and the two year maintenance period shall begin again from the date of replanting.

- 16. Performance assurances for the Vegetated Corridor shall comply with R&O 19-5, Section 2.07.2, Table 2-1 and Section 2.11, Table 2-2, as amended by R&O 19-22.
- 17. Clean Water Services shall require an easement over the Sensitive Area and Vegetated Corridor conveying storm and surface water management to Clean Water Services or the City that would prevent the owner of the Vegetated Corridor from activities and uses inconsistent with the purpose of the corridor and any easements therein.
- 18. Final construction plans shall include landscape plans. In the details section of the plans, a description of the methods for removal and control of exotic species, location, distribution, condition and size of plantings, existing plants and trees to be preserved, and installation methods for plant materials is required. Plantings shall be tagged for dormant season identification and shall remain on plant material after planting for monitoring purposes.
- 19. A Maintenance Plan shall be included on final plans including methods, responsible party contact information, and dates (minimum two times per year, by June 1 and September 30).
- 20. Final construction plans shall clearly depict the location and dimensions of the sensitive area and the Vegetated Corridor (indicating good, marginal, or degraded condition). Sensitive area boundaries shall be marked in the field.
- Protection of the Vegetated Corridors and associated sensitive areas shall be provided by the installation of permanent fencing and signage between the development and the outer limits of the Vegetated Corridors. Fencing and signage details to be included on final construction plans.

This Service Provider Letter is not valid unless CWS-approved site plan is attached.

Please call (503) 681-3667 with any questions.

Stacy Benjamin

Stacy Benjamin Environmental Plan Review

Attachments (3)





### LEGEND (COLOR COPY):

TOTAL ON-SITE WETLAND: 26,307 SF± (0.60 ACRES±)

PSS/PEM/SLOPE WETLAND A:11,978 SF± (0.27 ACRES±) PEM/SLOPE/RIVERINE WETLAND B:14,329 SF± (0.33 ACRES±)

MARGINAL CONDITION VC ON-SITE: 14,375 SF± (0.33 ACRES±)

DEGRADED CONDITION VC ON-SITE: 7,237 SF± (0.17 ACRES±)

A PHOTO LOCATIONS & ORIENTATION

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS DERIVED FROM NOAA LIDAR. EXISTING CONDITIONS AND STUDY AREA ARE DERIVED FROM LAND SURVEY WITH SUB-METER ACCURACY.







## LEGEND (COLOR COPY):



WETLAND PERMANENT IMPACTS: 11,978 SF± (0.27 ACRES±)



WETLAND TEMPORARY IMPACT AREA: 720 SF± (0.02 ACRES±)

VEGETATED CORRIDOR - EXISTING AREA TO REMAIN: 1,214 SF± (0.03 ACRES±)

VEGETATED CORRIDOR PERMANENT IMPACT AREA: 19,304 SF± (0.44 ACRES±)

VEGETATED CORRIDOR TEMPORARY IMPACT AREA: (TO BE PLANTED TO GOOD CONDITION) 994 SF± (0.02 ACRES±)

VEGETATED CORRIDOR PUBLIC BENEFIT MITIGATION AREA (TO BE PLANTED TO GOOD CONDITION): 1,128 SF± (0.03 ACRES±)

WETLAND AND WATER BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 8, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MARCH 10, 2021.



### DATE: 04/20/2021 FIGURE SITE PLAN 6 OREGON STREET BUSINESS PARK NATURAL RESOURCE ASSESSMENT DRWN: BDL/JDS CHKD: SAR AKS JOB: 7971



