



Date: September 28, 2022

To: Dale Poppe - Mackenzie

From: Peter van Oss ISA Certified Arborist, TRAQ PN-8145A, ASCA Member

Re: (2816.1) Tree Plan Development – Sherwood Industrial Park Building 5 and 6

Summary

Teragan and Associates has been contracted with Mackenzie Architecture to provide arboricultural consulting services. This report is the tree plan for the development phase of the proposed project. The tree plan meets the recommendations in section 16.142.070 of the City of Sherwood Code for the Sherwood Industrial Park project. This report is for phase 3 of the project located on the northeast side of Century Drive, Lot 150 Buildings 5 and 6.

Background

ORWA Sherwood LLC is proposing to develop the Sherwood Industrial Park at SW Tualatin Sherwood Road and SW Century Drive in Sherwood. Existing trees are present adjacent to the proposed development. The existing conditions map with existing tree locations is provided in Appendix C. The proposed development is located in the northwestern portion of the property of tax lot 2S129S000150.

Purpose of the report

The purpose of this report is to provide recommendations for the retention of the trees on site adhering to local municipal codes.

Tree Inventory

Our firm completed the inventory during the site visit on July 7, 2021. The tree diameters were recorded using a diameter tape. The health and conditions of the trees are determined by the plant species profiles compared to the current condition the trees present. Attributes that can negatively impact the ratings are growing conditions, bark inclusions, broken branches, poor vigor...etc.

Observations

The proposed development is on the NW portion of parcel 2S129S000150. The temporary disturbance area is on the part of the property that is bare and does not have any trees located within the disturbance area except for the street trees in the planter areas between the road and sidewalk. There are no proposed removals for phase 3 of the project.

The landscape plans include the required parking lot and landscaping plantings per City of Sherwood Code. See Appendix D for details.

The street trees shall be protected as shown in Appendix C. The fencing shall be placed at the edge of the planter areas of the street trees along the sidewalk, road, and at the 6X measurements or dripline whichever is greater.

Tree Protection During Construction

Trees that are retained should be protected at the recommended distance of twelve inches per diameter inch of the trees for the trees located in the riparian zone. This means that the soil disturbance should be twelve inches per diameter inch away from the tree in circumference of the tree. It is recommended that the existing grades remain the same and native soils remain undisturbed as much as possible within the tree protection zones. Excavation within the 6X distance must be overseen by the project arborist.

The project arborist should be notified when ground disturbance takes place near 6X, a distance measured at a rate of six inches per diameter inch of the tree measured from the trunk.

Additional watering during the dry months is recommended if root impacts occur to any of the trees on-site. The watering should be done with the use of a soaker hose placed at the edge of the drip line and impact area. The watering should be adjusted so that the soil moisture content remains optimal. It may be recommendable to measure the soil moisture content on a weekly basis to ensure that the moisture content remains effective in relation to the recovery of the root impacts. Soil amelioration in the form of nutrient rich mulch, liquid fertilizers, and the use of growth hormones may be needed to accomplish the retention goals of the project.

Additional Tree Protection Mitigation in Appendix 5

Conclusion

It is in my professional opinion that the tree protection measures set forth in this tree plan will suffice in the protection of the trees during construction. It is important to adhere to the standards in appendix 4 to ensure that the retention goals are successful.



Peter van Oss

ISA Certified Arborist PN-8145A

Tree Risk Assessment Qualified

ASCA Member

Enclosures:

Appendix A: Certification of Performance

Appendix B: Assumptions and Limiting Conditions

Appendix C: Site Plan Fencing Placement and proposed removals

Appendix D: Inventory

Appendix E: Tree Protection Specifications

Appendix A: Certification of Performance

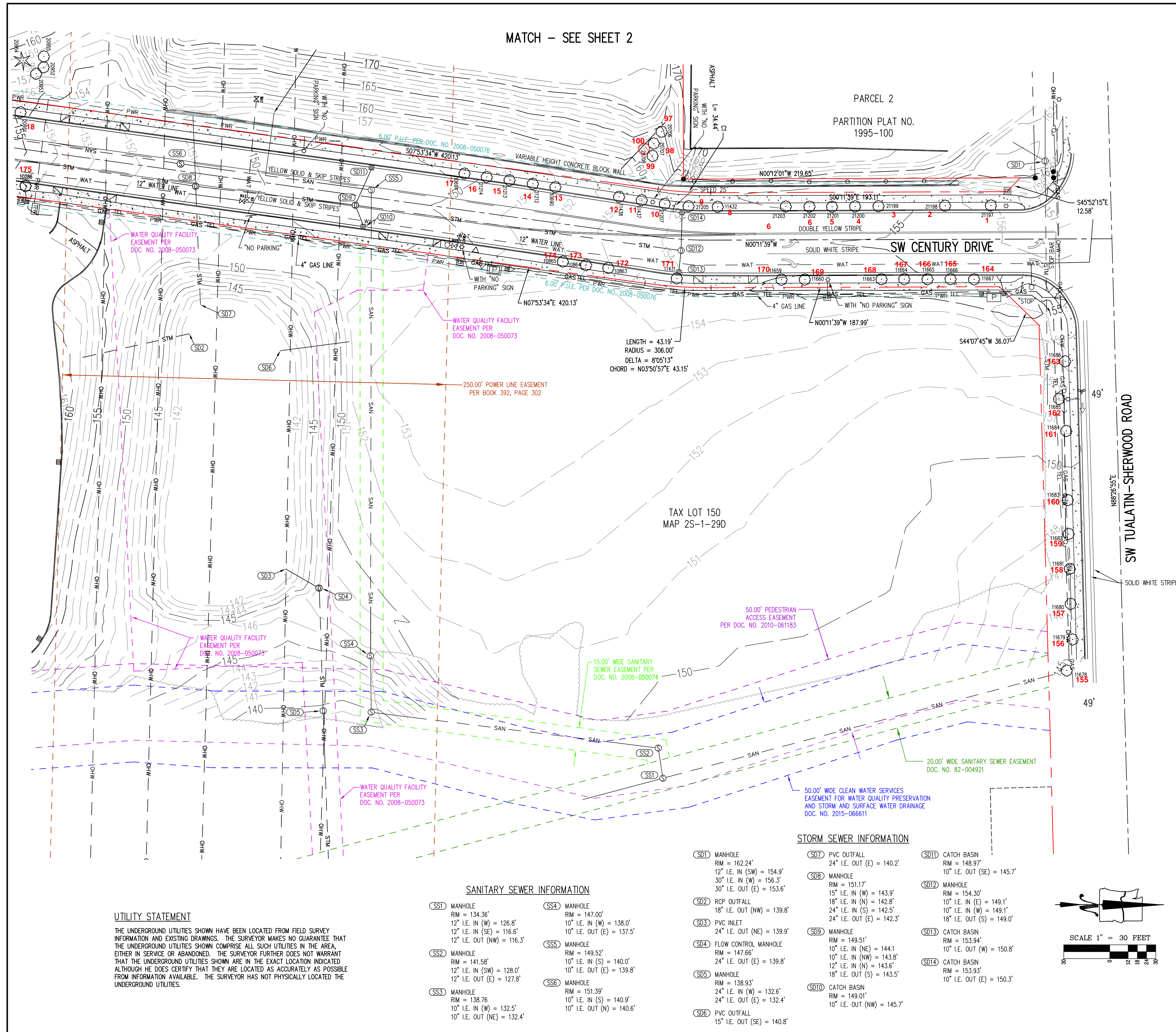
I, Peter van Oss, Certify:

- That a representative of Teragan & Associates, Inc., has inspected the tree(s) and/or the property referred to in this report. The extent of the evaluation is stated in the attached report.
- That Teragan & Associates, Inc. has no current or prospective interest in the vegetation of the property that is the subject of this report, and Teragan & Associates, Inc. has no personal interest or bias with respect to the parties involved.
- That Teragan & Associates, Inc.'s compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party, or upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.
- That the analysis, opinions, and conclusions that were developed as part of this report have been prepared according to commonly accepted arboricultural practices.
- That a Certified Arborist has overseen the gathering of data.

Appendix B: Assumptions and Limiting Conditions

- Any legal description provided to the consultant is assumed to be correct. Teragan and Associates, Inc. checked the species identification and tree diameters in the field.
- It is assumed that this property is not in violation of any codes, statutes, ordinances, or other governmental regulations.
- The consultant is not responsible for information gathered from others involved in various activities pertaining to this project. Care has been taken to obtain information from reliable sources.
- Loss or alteration of any part of this delivered report invalidates the entire report.
- Drawings and information contained in this report may not be to scale and are intended to be used as display points of reference only.
- The consultants' role is only to make recommendations. Inaction on the part of those receiving the report is not the responsibility of the consultant.
- This report is to certify the trees that are on site, their size and condition and create a tree plan. Tree plans are to include the measurements necessary to protect trees that are to be retained during the construction process.

MATCH - SEE SHEET 2



LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- WATER VAULT
- SANITARY SEWER CLEAN OUT
- SANITARY SEWER MANHOLE
- STORM SEWER CLEAN OUT
- STORM SEWER CATCH BASIN
- STORM SEWER MANHOLE
- GAS MARKER
- GAS VALVE
- GUY WIRE ANCHOR
- UTILITY POLE
- POWER VAULT
- ELECTRICAL METER
- POWER JUNCTION BOX
- POWER TRANSFORMER
- STREET LIGHT
- TELEPHONE/TELEVISION VAULT
- TELEPHONE/TELEVISION JUNCTION BOX
- TELEPHONE/TELEVISION RISER
- MAILBOX
- SIGN
- FOUND SURVEY MONUMENT

- RIGHT-OF-WAY LINE
- BOUNDARY LINE
- PROPERTY LINE
- CENTERLINE
- DITCH
- CURB
- EDGE OF PAVEMENT
- EASEMENT
- FENCE LINE
- GRAVEL EDGE
- POWER LINE
- OVERHEAD WIRE
- TELEPHONE LINE
- GAS LINE
- STORM SEWER LINE
- SANITARY SEWER LINE
- WATER LINE
- BRUSH LINE

ORTHWEST SURVEYING, INC.
1815 NW 169th PLACE, SUITE 2090
BEAVERTON, OR 97006
PH: (503) 848-2127 FAX: (503) 848-2179
EMAIL: nwsurveying@nwsrvy.com

LOCATED IN THE SE 1/4 OF SECTION 29,
TOWNSHIP 2 SOUTH, RANGE 1 WEST, W.M.,
CITY OF SHERWOOD,
WASHINGTON COUNTY, OREGON

**TOPOGRAPHIC SURVEY
SHERWOOD INDUSTRIAL PARK
SHERWOOD
OREGON**

DRAWING NO.: 2255 TOPO
SCALE: AS NOTED
DRAWING GENERATED BY: LD2004
DRAWN BY: CDW
CHECKED BY: CHS

PREPARED FOR:
ORWA SHERWOOD, LLC
8320 NE HIGHWAY 99E
VANCOUVER, WA 98665

REVISIONS:
INITIAL RELEASE: APR. 16, 2021

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JANUARY 15, 2002
CLINTON H. STUBBS JR.
5549815
RENEWS: 06/30/22

JOB NUMBER
2255
SHEET
1

NOTES

- 1) THE FIELD SURVEY FOR THIS MAP WAS COMPLETED ON MARCH 31, 2021.
- 2) ELEVATIONS AND CONTOURS ARE BASED ON WASHINGTON COUNTY BENCHMARK NUMBER 103. THE BENCHMARK IS A 3" BRASS DISK SET IN CONCRETE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SW TUALATIN-SHERWOOD ROAD AND THE R/R CROSSING, AND HAS AN ELEVATION OF 171.38 FEET ON THE NGVD 1929 DATUM.
- 3) THE BASIS OF BEARINGS FOR THIS SURVEY IS SURVEY NO. 28065.
- 4) THE RIGHT-OF-WAY WIDTHS WERE ESTABLISH USING INFORMATION FROM RECORD SURVEYS AND THE TAX ASSESSOR'S MAP.
- 5) THE EASEMENTS SHOWN ON THIS MAP ARE BASED ON THE TITLE REPORT, PREPARED BY LAWYERS TITLE OF OREGON, LLC, WITH ORDER NUMBER 322100068 AND WITH AN EFFECTIVE DATE OF JANUARY 29, 2021 AT 8.00 A.M.
- 6) THE UNDERGROUND UTILITIES ARE BASED ON THE MARKINGS PER LOCATE TICKET NUMBER 21049052.

STORM SEWER INFORMATION

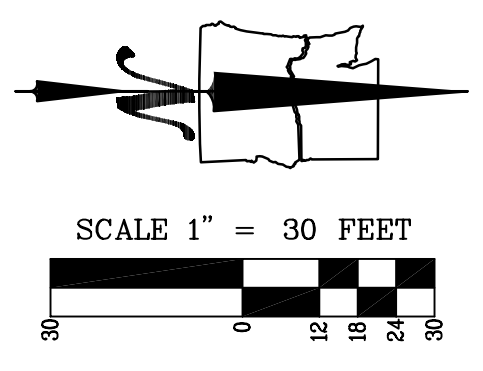
- | | | |
|--|---|--|
| (SD1) MANHOLE
RIM = 162.24'
12" I.E. IN (SW) = 154.9'
30" I.E. IN (W) = 156.3'
30" I.E. OUT (E) = 153.6' | (SD7) PVC OUTFALL
24" I.E. OUT (E) = 140.2' | (SD11) CATCH BASIN
RIM = 148.97'
10" I.E. OUT (SE) = 145.7' |
| (SD2) RCP OUTFALL
18" I.E. OUT (NW) = 139.8' | (SD8) MANHOLE
RIM = 151.17'
15" I.E. IN (W) = 143.9'
18" I.E. IN (N) = 142.8'
24" I.E. IN (S) = 142.5'
24" I.E. OUT (E) = 142.3' | (SD12) MANHOLE
RIM = 154.30'
10" I.E. IN (E) = 149.1'
10" I.E. IN (W) = 149.1'
18" I.E. OUT (S) = 149.0' |
| (SD3) PVC INLET
24" I.E. OUT (NE) = 139.9' | (SD9) MANHOLE
RIM = 149.51'
10" I.E. IN (NE) = 144.1'
10" I.E. IN (NW) = 143.8'
12" I.E. IN (N) = 143.6'
18" I.E. OUT (S) = 143.5' | (SD13) CATCH BASIN
RIM = 153.94'
10" I.E. OUT (W) = 150.8' |
| (SD4) FLOW CONTROL MANHOLE
RIM = 147.66'
24" I.E. OUT (E) = 139.8' | (SD10) CATCH BASIN
RIM = 149.01'
10" I.E. OUT (NW) = 145.7' | (SD14) CATCH BASIN
RIM = 153.93'
10" I.E. OUT (E) = 150.3' |
| (SD5) MANHOLE
RIM = 138.93'
24" I.E. IN (W) = 132.6'
24" I.E. IN (S) = 132.4' | | |
| (SD6) PVC OUTFALL
15" I.E. OUT (SE) = 140.8' | | |

SANITARY SEWER INFORMATION

- | | |
|---|---|
| (SS1) MANHOLE
RIM = 134.36'
12" I.E. IN (W) = 126.8'
12" I.E. IN (SE) = 116.6'
12" I.E. OUT (NW) = 116.3' | (SS4) MANHOLE
RIM = 147.00'
10" I.E. IN (W) = 138.0'
10" I.E. OUT (E) = 137.5' |
| (SS2) MANHOLE
RIM = 141.58'
12" I.E. IN (SW) = 128.0'
12" I.E. OUT (E) = 127.8' | (SS5) MANHOLE
RIM = 149.52'
10" I.E. IN (S) = 140.0'
10" I.E. OUT (E) = 139.8' |
| (SS3) MANHOLE
RIM = 138.76'
10" I.E. IN (W) = 132.5'
10" I.E. OUT (NE) = 132.4' | (SS6) MANHOLE
RIM = 151.39'
10" I.E. IN (S) = 140.9'
10" I.E. OUT (N) = 140.6' |

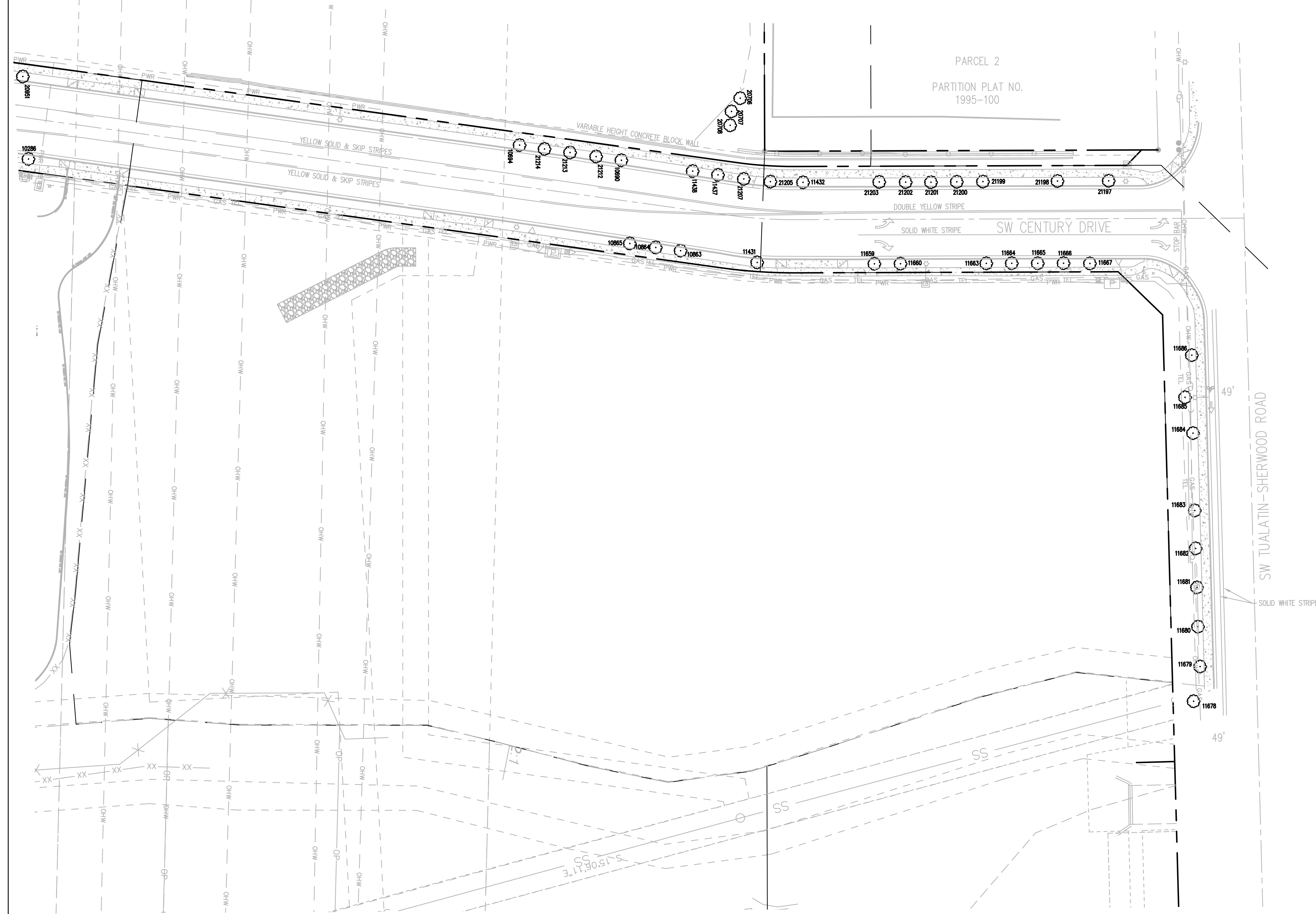
UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



Attachment 1

MATCH – SEE SHEET 2



LEGEND

DECIDUOUS TREE	
CONIFEROUS TREE	
FIRE HYDRANT	
WATER METER	
WATER VALVE	
WATER VAULT	
SANITARY SEWER CLEAN OUT	
SANITARY SEWER MANHOLE	
STORM SEWER CLEAN OUT	
STORM SEWER CATCH BASIN	
STORM SEWER MANHOLE	
GAS MARKER	
GAS VALVE	
GUY WIRE ANCHOR	
UTILITY POLE	
POWER VAULT	
ELECTRICAL METER	
POWER JUNCTION BOX	
POWER TRANSFORMER	
STREET LIGHT	
TELEPHONE/TELEVISION VAULT	
TELEPHONE/TELEVISION JUNCTION BOX	
TELEPHONE/TELEVISION RISER	
MAILBOX	
SIGN	
FOUND SURVEY MONUMENT	

RIGHT-OF-WAY LINE	
BOUNDARY LINE	
PROPERTY LINE	
CENTERLINE	
DITCH	
CURB	
EDGE OF PAVEMENT	
EASEMENT	
FENCE LINE	
GRAVEL EDGE	
POWER LINE	
OVERHEAD WIRE	
TELEPHONE LINE	
GAS LINE	
STORM SEWER LINE	
SANITARY SEWER LINE	
WATER LINE	
BRUSH LINE	

LOCATED IN THE SE 1/4 OF SECTION 29,
TOWNSHIP 2 SOUTH, RANGE 1 WEST, W.M.,
CITY OF SHERWOOD,
WASHINGTON COUNTY, OREGON

TREE INVENTORY
SHERWOOD INDUSTRIAL PARK
SHERWOOD
OREGON

DRAWING NO.: 2255 TOPO
SCALE: AS NOTED
DRAWING GENERATED BY: LD2004
DRAWN BY: CDW
CHECKED BY: CHS

PREPARED FOR:
ORWA SHERWOOD, LLC
8320 NE HIGHWAY 99E
VANCOUVER, WA 98665

REVISIONS:
INITIAL RELEASE: APR. 16, 2021

- NOTES**
- 1) THE FIELD SURVEY FOR THIS MAP WAS COMPLETED ON MARCH 31, 2021.
 - 2) ELEVATIONS AND CONTOURS ARE BASED ON WASHINGTON COUNTY BENCHMARK NUMBER 103. THE BENCHMARK IS A 3" BRASS DISK SET IN CONCRETE AT THE SOUTHWEST CORNER OF THE INTERSECTION OF SW TUALATIN-SHERWOOD ROAD AND THE R/R CROSSING, AND HAS AN ELEVATION OF 171.38 FEET ON THE NGVD 1929 DATUM.
 - 3) THE BASIS OF BEARINGS FOR THIS SURVEY IS SURVEY NO. 28065.
 - 4) THE RIGHT-OF-WAY WIDTHS WERE ESTABLISH USING INFORMATION FROM RECORD SURVEYS AND THE TAX ASSESSOR'S MAP.
 - 5) THE EASEMENTS SHOWN ON THIS MAP ARE BASED ON THE TITLE REPORT, PREPARED BY LAWYERS TITLE OF OREGON LLC, WITH ORDER NUMBER 322100068 AND WITH AN EFFECTIVE DATE OF JANUARY 29, 2021 AT 8:00 A.M.
 - 6) THE UNDERGROUND UTILITIES ARE BASED ON THE MARKINGS PER LOCATE TICKET NUMBER 21049052.

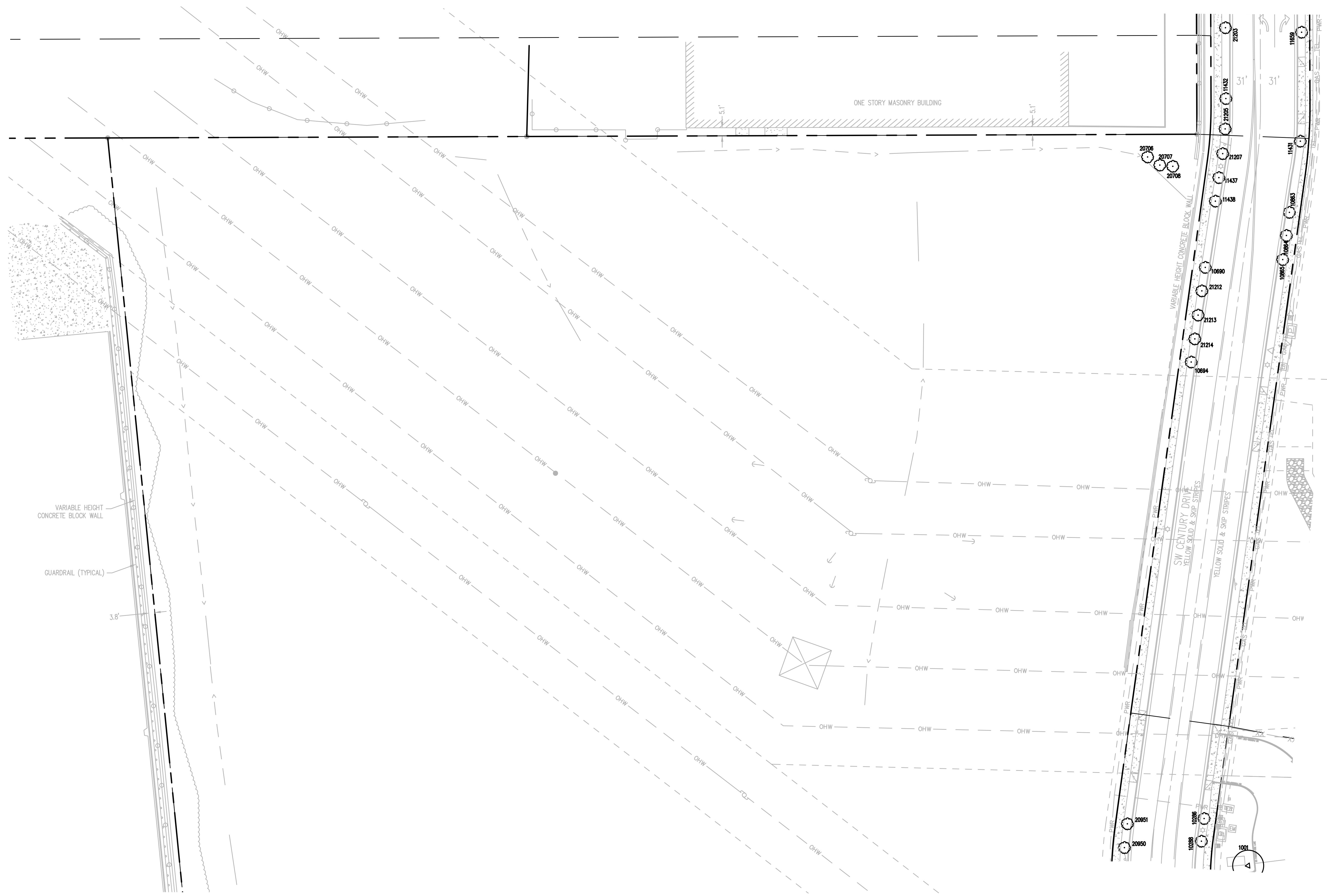
UTILITY STATEMENT
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

Attachment 1

SCALE 1" = 30 FEET

JOB NUMBER
2255

SHEET
1 OF 6



MATCH - SEE SHEET 1

MATCH - SEE SHEET 3

Attachment 1

LOCATED IN THE SE 1/4 OF SECTION 29,
TOWNSHIP 2 SOUTH, RANGE 1 WEST, W.M.,
CITY OF SHERWOOD,
WASHINGTON COUNTY, OREGON

TREE INVENTORY
SHERWOOD INDUSTRIAL PARK
SHERWOOD
OREGON

DRAWING NO.: 2255 TOPO
SCALE: AS NOTED
DRAWING GENERATED BY: LD2004
DRAWN BY: CDW
CHECKED BY: CHS
PREPARED FOR:
ORWA SHERWOOD, LLC
8320 NE HIGHWAY 99E
VANCOUVER, WA 98665

REVISIONS:
INITIAL RELEASE: APR. 16, 2021

JOB NUMBER
2255

SHEET
2 OF 6

MATCH - SEE SHEET 2



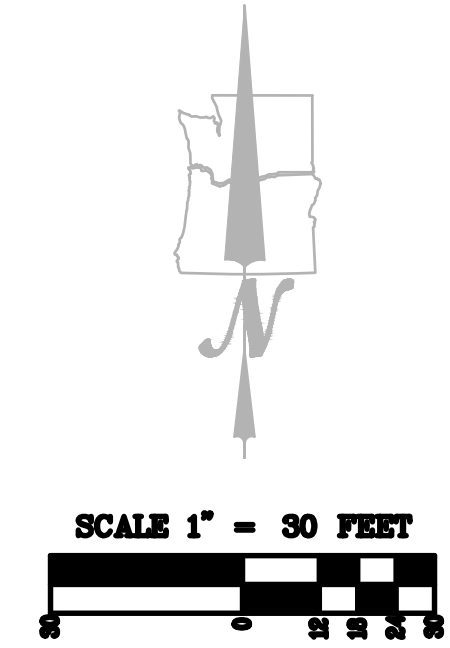
10000	5" MAPLE	20104	SPLIT (2) 12" COTTONWOOD
10001	6" MAPLE	20105	SPLIT (2) 14" COTTONWOOD
10002	6" MAPLE	20106	8" COTTONWOOD
10003	6" MAPLE	20107	16" COTTONWOOD
10004	8" MAPLE	20108	10" COTTONWOOD
10005	7" MAPLE	20109	10" COTTONWOOD
10006	7" MAPLE	20110	16" COTTONWOOD
10007	7" MAPLE	20111	8" COTTONWOOD
10008	7" MAPLE	20112	SPLIT (2) 10" COTTONWOOD
10009	6" MAPLE	20113	8" COTTONWOOD
10010	6" MAPLE	20114	8" COTTONWOOD
10011	7" MAPLE	20115	8" COTTONWOOD
10012	10" MAPLE	20116	SPLIT (2) 8" COTTONWOOD
10013	8" MAPLE	20117	10" COTTONWOOD
10014	5" MAPLE	20118	8" COTTONWOOD
10017	7" MAPLE	20119	6" COTTONWOOD
10020	6" MAPLE	20120	6" COTTONWOOD
10023	6" MAPLE	20121	SPLIT 8", 16" COTTONWOOD
10024	5" MAPLE	20122	6" COTTONWOOD
10025	4" MAPLE	20123	6" COTTONWOOD
10026	5" MAPLE	20124	8" COTTONWOOD
10027	6" MAPLE	20125	6" COTTONWOOD
10286	8" MAPLE	20126	6" COTTONWOOD
10288	7" MAPLE	20127	6" COTTONWOOD
10289	7" MAPLE	20128	SPLIT (2) 6" COTTONWOOD
10290	7" MAPLE	20129	6" COTTONWOOD
10291	7" MAPLE	20130	8" COTTONWOOD
10292	6" MAPLE	20385	SPLIT (2) 14" COTTONWOOD
10293	7" MAPLE	20386	SPLIT (2) 16" COTTONWOOD
10294	6" MAPLE	20387	10" COTTONWOOD
10295	7" MAPLE	20388	8" COTTONWOOD
10296	6" MAPLE	20389	8" COTTONWOOD
10297	4" MAPLE	20390	SPLIT (2) 10" COTTONWOOD
10298	5" MAPLE	20391	8" COTTONWOOD
10300	6" MAPLE	20392	SPLIT (2) 6" COTTONWOOD
10301	7" MAPLE	20393	10" COTTONWOOD
10302	7" MAPLE	20394	8" COTTONWOOD
10303	6" MAPLE	20395	8" COTTONWOOD
10304	2" MAPLE	20396	6" COTTONWOOD
10305	7" MAPLE	20397	12" COTTONWOOD
10690	6" MAPLE	20398	10" COTTONWOOD
10694	7" MAPLE	20399	SPLIT (3) 10" COTTONWOOD
10863	8" MAPLE	20400	SPLIT 6", 14" COTTONWOOD
10864	7" MAPLE	20401	6" COTTONWOOD
10865	7" MAPLE	20402	10" COTTONWOOD
11431	8" MAPLE	20403	SPLIT (2) 10" COTTONWOOD
11432	8" MAPLE	20404	SPLIT (2) 10" COTTONWOOD
11437	6" MAPLE	20405	SPLIT (2) 10" COTTONWOOD
11438	8" MAPLE	20406	SPLIT (2) 10" COTTONWOOD
11659	7" MAPLE	20407	6" COTTONWOOD
11660	6" MAPLE	20410	12" COTTONWOOD
11663	8" MAPLE	20840	SPLIT (2) 10" COTTONWOOD
11664	6" MAPLE	20841	8" COTTONWOOD
11665	7" MAPLE	20842	10" COTTONWOOD
11666	7" MAPLE	20843	10" COTTONWOOD
11667	9" MAPLE	20844	SPLIT (2) 10" COTTONWOOD
11678	7" OAK	20845	6" COTTONWOOD
11679	7" OAK	20846	6" COTTONWOOD
11680	7" OAK	20847	6" COTTONWOOD
11681	7" OAK	20848	SPLIT (2) 6" COTTONWOOD
11682	7" OAK	20849	6" COTTONWOOD
11683	8" OAK	20850	SPLIT (2) 8" COTTONWOOD
11684	6" OAK	20851	8" COTTONWOOD
11685	7" OAK	20852	SPLIT (2) 6" COTTONWOOD
11686	9" OAK	20853	10" COTTONWOOD
12168	3" MAPLE	20854	SPLIT (4) 8" COTTONWOOD
12169	3" MAPLE	20855	SPLIT (4) 6" COTTONWOOD
12170	3" MAPLE	20856	SPLIT (2) 6" COTTONWOOD
12171	3" MAPLE	20857	6" COTTONWOOD
12172	3" MAPLE	20858	SPLIT (2) 6" COTTONWOOD
12173	3" MAPLE	20859	SPLIT (2) 14" COTTONWOOD
12176	3" MAPLE	20948	8" DECIDUOUS
12177	3" MAPLE	20949	6" DECIDUOUS
12178	3" MAPLE	20950	8" DECIDUOUS
12179	3" MAPLE	20951	8" DECIDUOUS
12180	3" MAPLE	20952	8" BIRCH
12181	3" MAPLE	20953	SPLIT (4) 5" BIRCH
12182	3" MAPLE	20954	10" CONIFER
12183	3" MAPLE	20955	SPLIT (4) 6" BIRCH
12259	3" MAPLE	20956	12" COTTONWOOD
12260	3" MAPLE	20957	SPLIT (12) 6" COTTONWOOD
20098	SPLIT (2) 8" COTTONWOOD	20958	SPLIT (2) 14", 18" COTTONWOOD
20099	SPLIT (3) 6" COTTONWOOD	20959	12" COTTONWOOD
20100	12" COTTONWOOD	20960	6" COTTONWOOD
20101	SPLIT (2) 12" COTTONWOOD	20961	6" COTTONWOOD
20102	6" COTTONWOOD	20962	6" COTTONWOOD
20103	10" COTTONWOOD	20963	10" COTTONWOOD
		20964	8" COTTONWOOD

LOCATED IN THE SE 1/4 OF SECTION 29,
TOWNSHIP 2 SOUTH, RANGE 1 WEST, W.M.,
CITY OF SHERWOOD,
WASHINGTON COUNTY, OREGON

TREE INVENTORY
SHERWOOD INDUSTRIAL PARK
SHERWOOD
OREGON

DRAWING NO.: 2255 TOPO
SCALE: AS NOTED
DRAWING GENERATED BY: LD2004
DRAWN BY: CDW
CHECKED BY: CHS
PREPARED FOR:
ORWA SHERWOOD, LLC
8320 NE HIGHWAY 99E
VANCOUVER, WA 98665

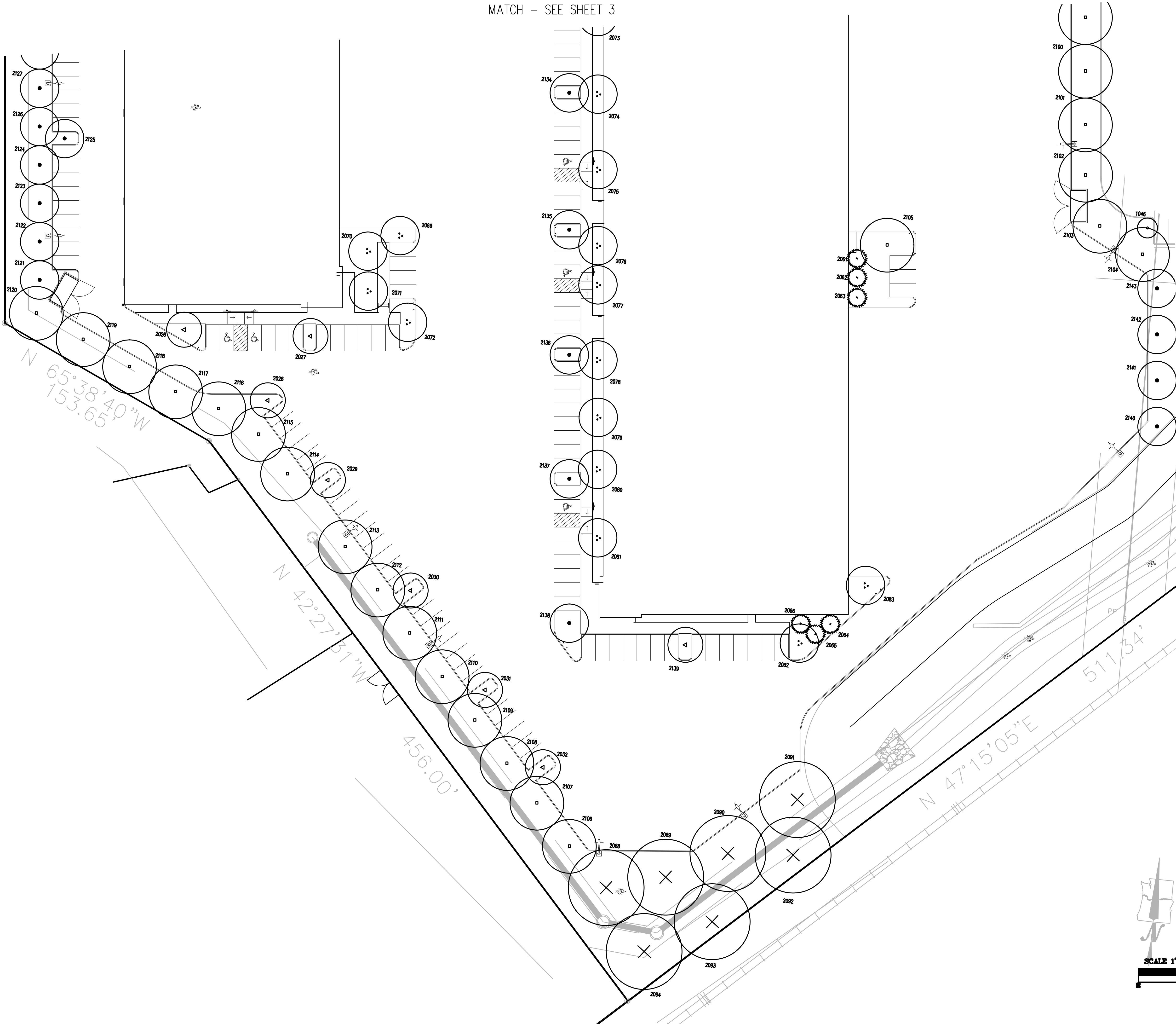
REVISIONS:
INITIAL RELEASE: APR. 16, 2021



Attachment 1

JOB NUMBER
2255
SHEET
3 OF 6

MATCH - SEE SHEET 3

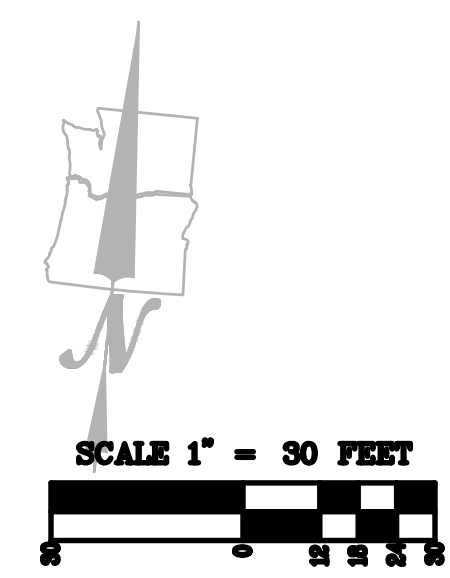


TREE INVENTORY
SHERWOOD INDUSTRIAL PARK
SHERWOOD OREGON

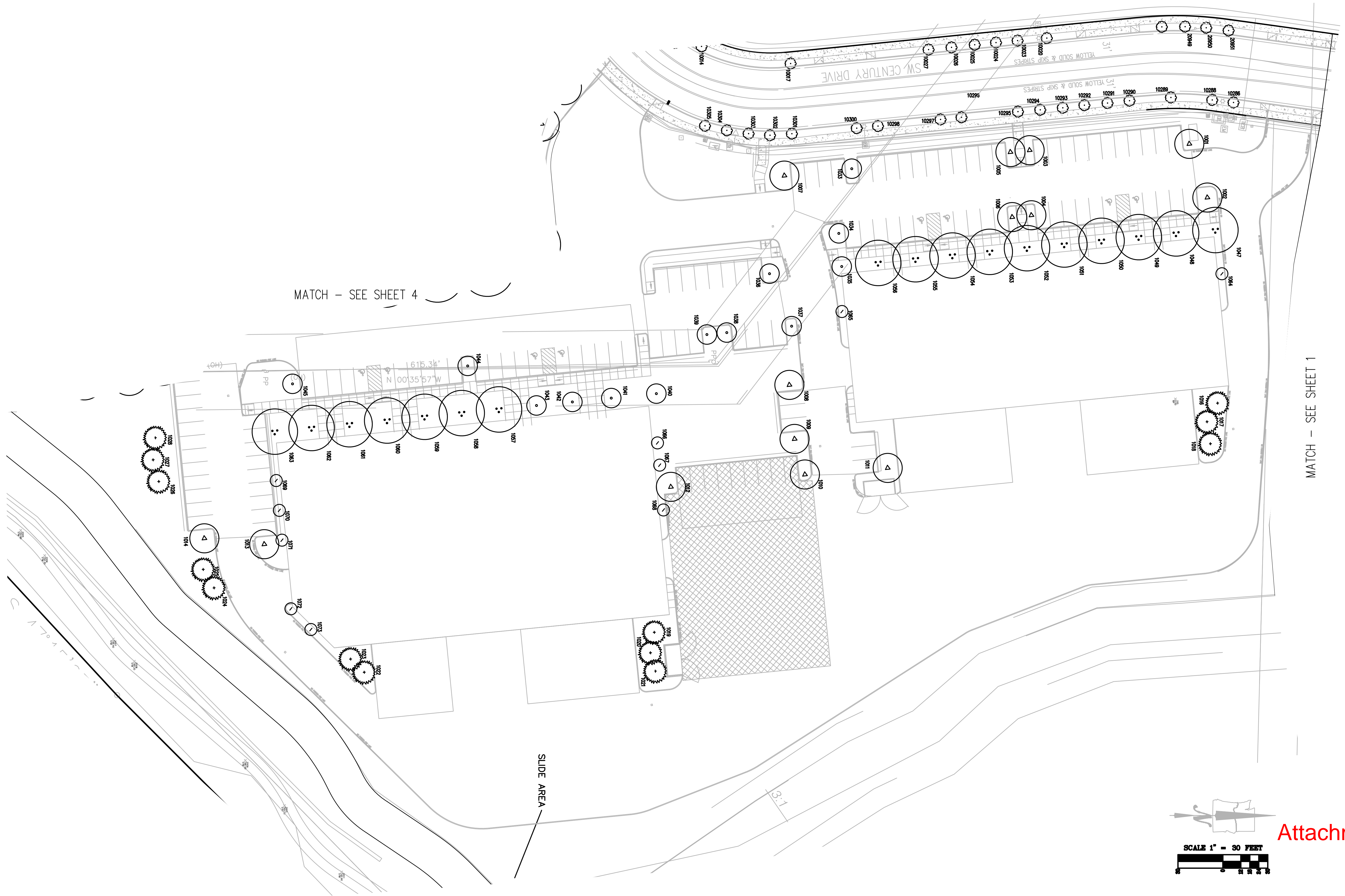
DRAWING NO.: 2255-TOPO
 SCALE: AS NOTED
 DRAWING GENERATED BY: LD2004
 DRAWN BY: CDW
 CHECKED BY: CHS
 PREPARED FOR:
 ORWA SHERWOOD, LLC
 8320 NE HIGHWAY 99E
 VANCOUVER, WA 98665

REVISIONS:
 INITIAL RELEASE: APR. 16, 2021

JOB NUMBER
 2255
 SHEET
 4 OF 6



Attachment 1



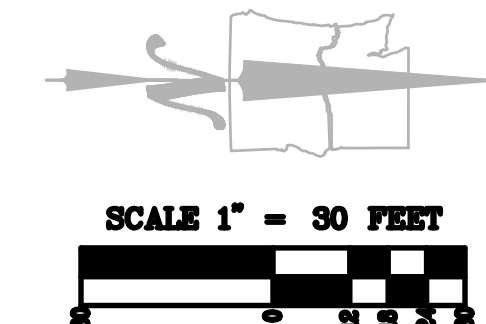
**TREE INVENTORY
SHERWOOD INDUSTRIAL PARK
SHERWOOD
OREGON**

DRAWING NO.: 2255 TOPO
SCALE: AS NOTED
DRAWING GENERATED BY: L02004
DRAWN BY: CDW
CHECKED BY: CHS
PREPARED FOR:
ORWA SHERWOOD, LLC
8320 NE HIGHWAY 99E
VANCOUVER, WA 98665

REVISIONS:
INITIAL RELEASE: APR. 16, 2021

JOB NUMBER
2255
SHEET
5 OF 6

Attachment 1



Attachment 1

TREE INVENTORY
SHERWOOD INDUSTRIAL PARK
SHERWOOD OREGON

DRAWING NO.: 2255 TOPO
SCALE: AS NOTED
DRAWING GENERATED BY: 102004
DRAWN BY: CUW
CHECKED BY: CHS
PREPARED FOR:
ORWA SHERWOOD, LLC
8320 NE HIGHWAY 99E
VANCOUVER, WA 98665

REVISIONS:
INITIAL RELEASE: APR. 16, 2021

JOB NUMBER
2255
SHEET
6 OF 6



Architecture • Interiors
Planning • Engineering

Portland, OR
503.224.9560
Vancouver, WA
360.695.7879
Seattle, WA
206.749.9993
www.mckenzie.com

MACKENZIE.
DESIGN DRIVEN | CLIENT FOCUSED

Client
**ORWA SHERWOOD,
LLC**

**8320 NE HIGHWAY 99
VANCOUVER, WA 98665**

Project
**SHERWOOD
INDUSTRIAL
PARK
(PHASE 3)**

© MACKENZIE 2022
ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE		
Delta	Issued As	Issue Date

SHEET TITLE:
**SITE PLAN
BUILDINGS
5 & 6**

DRAWN BY:
CHECKED BY:
SHEET:

C1.13

JOB NO. **2200393.00**

KEYNOTES

- 32-01 PROPOSED TRASH ENCLOSURE. SEE ARCHITECTURAL PLANS
- 32-02 ACCESSIBLE PARKING STALL PER 4/C5.10
- 32-03 ACCESSIBLE PARKING STALL SIGN PER 4/C5.10
- 32-04 ACCESSIBLE COMPLIANT PERPENDICULAR RAMP PER 6/C5.10
- 32-05 CONCRETE VERTICAL CURB PER 1/C5.10
- 32-06 PARKING STALL STRIPING PER 2/C5.11
- 32-07 INSTALL STOP SIGN
- 32-08 BUMPER OVERHANG
- 32-09 SIDEWALK PER 2/C5.10
- 32-10 RETAINING WALL (MAX. 4')
- 32-11 ACCESSIBLE COMPLIANT PARALLEL RAMP
- 32-12 EXISTING POWER POLE TO BE RELOCATED BY PGE
- 32-13 ASPHALT PAVING SECTION PER 7/C5.10
- 32-14 CONCRETE CROSSWALK
- 32-15 CATCH BASIN. SEE STORMWATER PLANS
- 32-16 FDC. SEE WATER AND SANITARY PLANS
- 32-17 FIRE HYDRANT. SEE WATER AND SANITARY PLANS
- 32-18 WAREHOUSE ACCESS STEM WALL. SEE STRUCTURAL PLANS
- 32-19 WAREHOUSE DRIVE IN ACCESS
- 32-20 PIPE BOLLARD. SEE 3/C5.11
- 32-21 ASPHALT TO CONCRETE TRANSITION. SEE 7/C5.12
- 32-22 PROTECT GUY ANCHORS
- 32-23 PROTECT BPA TOWER (NO GRADING WITHIN 20' OF TOWER, COORDINATE WITH BPA.
- 32-24 ADA ACCESS ROUTE
- 32-25 STAIRWAY PER 6/C5.11
- 32-26 RECONSTRUCTED STORMWATER FACILITY, SEE STORMWATER PLAN
- 32-27 ACCESSIBLE DRIVE AISLE SIGN
- 32-28 EXISTING FIRE HYDRANT
- 32-29 PROPOSED SITE STAIRS
- 32-30 LIMITS OF FLOOD PLAIN
- 32-31 VEGETATED CORRIDOR
- 32-32 RETAINING WALL (MAX. 10')
- 32-33 BUMPER OVERHANG
- 32-34 FIRE LANE
- 32-35 (4) 2'x6' BIKE PARKING SPACES

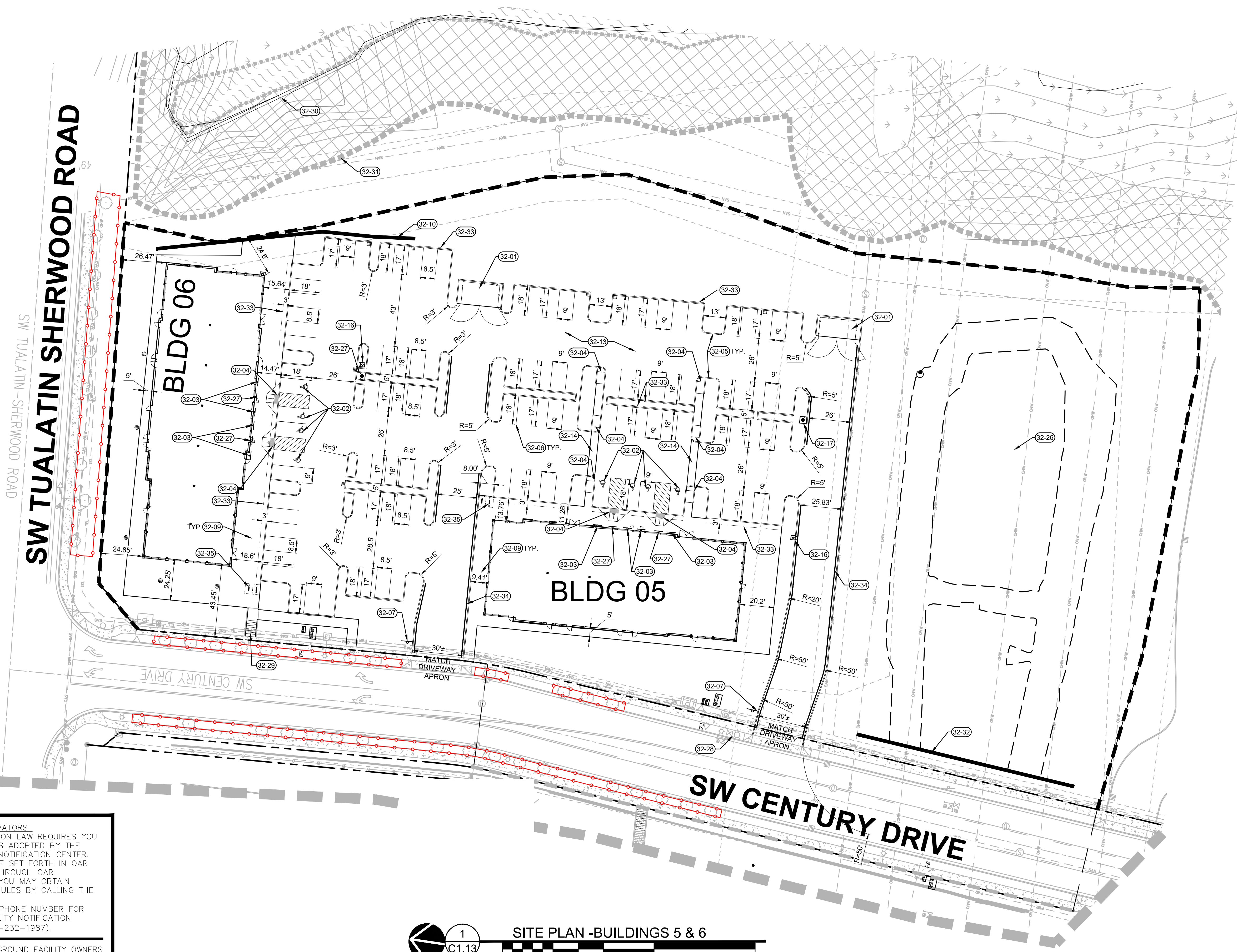
CURB RADIUS NOTE

ALL CURB RADII 3' UNLESS OTHERWISE NOTED

ARCHAEOLOGICAL NOTE

IF ANY ITEM OF ARCHAEOLOGICAL INTEREST IS FOUND DURING CONSTRUCTION, WORK SHALL BE HALTED IMMEDIATELY AND THE CITY'S COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT AND THE WASHINGTON DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION SHALL BE NOTIFIED. FAILURE TO COMPLY WITH THESE STATE REQUIREMENTS MAY CONSTITUTE A CLASS C FELONY, SUBJECT TO IMPRISONMENT AND/OR FINES.

LAND USE REVIEW: 9/30/2022



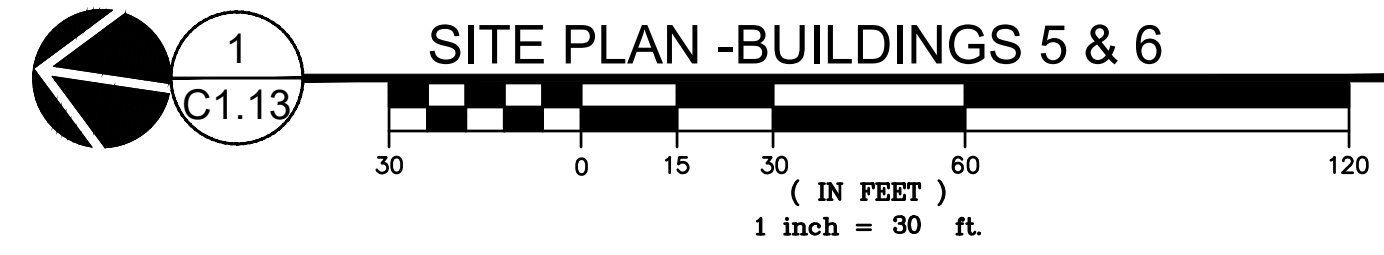
NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
(NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

POTENTIAL UNDERGROUND FACILITY OWNERS

Dig Safely.
Call the Oregon One-Call Center
DIAL 811 or 1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

- NW NATURAL GAS
- M-F 7am-6pm 503-226-4211 Ext.4313
- AFTER HOURS 503-226-4211
- PGE 503-464-7777
- QWEST 1-800-573-1311
- CITY BUREAU OF MAINTENANCE 503-823-1700
- CITY WATER 503-823-4874
- VERIZON 1-800-483-1000





Tree Inventory - Sherwood Industrial Park
SW Century Dr and SW Tualatin Sherwood Rd
Conducted 7/7/2021
Christine Johnson, PN-8730A

Survey No.	Tree No.	Common Name	Scientific Name	DBH ¹ (in)	Crown Radius (ft)	Column1	Crown Area (sq ft)	Condition ²	Structure ²	Comments	Treatment
10000	43	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	5	5		79	Good	Fair	Wound on SW side of trunk; moderate wound wood; closed wound on N side of trunk.	retain
10001	42	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
10002	41	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good	Wound on NE and SW sides at base; good wound wood.	retain
10003	40	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good	Wound on S side at base; good wound wood.	retain
10004	39	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	7		154	Good	Good		retain
10005	38	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10006	37	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10007	36	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10008	35	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
10009	34	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
10010	33	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
10011	32	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
10012	31	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	10	7		154	Good	Good		retain
10013	30	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	9	7		154	Good	Good	Trunk wounds on S and NW sides at base; good wound wood.	retain
10014	29	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Fair	Lean to SW; trunk wound on NE side; girdling root on NE side.	retain
10017	28	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10288	175	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	7		154	Good	Good		retain
10289	176	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	7		154	Good	Good		retain
10290	177	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
10291	178	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10292	179	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10293	180	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Closed trunk wound on N side.	retain
10294	181	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10295	182	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
10296	183	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	7		154	Good	Good		retain
10302	188	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10303	189	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10304	190	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Closed wound on W side.	retain
10305	191	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	2	3		28	Fair	Good	Leaf scorch; needs water.	retain
10690	13	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10694	17	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
10863	172	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	9	5		79	Good	Good		retain
10864	173	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
10865	174	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	6		113	Good	Good	Two closed trunk wounds on E and N sides.	retain
11431	171	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	9	7		154	Good	Good		retain
11432	8	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
11437	11	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
11438	12	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
11659	170	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain



Tree Inventory - Sherwood Industrial Park
SW Century Dr and SW Tualatin Sherwood Rd
Conducted 7/7/2021
Christine Johnson, PN-8730A

Survey No.	Tree No.	Common Name	Scientific Name	DBH ¹ (in)	Crown Radius (ft)	Column1	Crown Area (sq ft)	Condition ²	Structure ²	Comments	Treatment
11660	169	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
11663	168	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
11664	167	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
11665	166	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
11666	165	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
11667	164	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	10	10		314	Good	Good		retain
12168	207	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Closed trunk wound on SE side.	retain
12170	205	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Wound on N side of trunk.	retain
12171	204	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
12172	203	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	9	7		154	Good	Good		retain
12173	202	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	2	3		28	Good	Good		retain
12176	201	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	2	3		28	Good	Good		retain
12177	200	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	2	3		28	Good	Good		retain
12178	199	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	9	5		79	Good	Good		retain
12179	198	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
12180	197	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
12181	196	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
12182	195	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
12183	194	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Closed wound on SW side.	retain
12196	206	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Closed trunk wounds on S, E, and W sides.	retain
12259	193	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good	Closed wound on SW side.	retain
12260	192	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
20948	21	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good	Trunk wound on W side; closed.	retain
20949	20	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	5	5		79	Good	Good		retain
20950	19	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
20951	18	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
21197	1	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
21198	2	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
21199	3	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
21200	4	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
21201	5	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
21202	6	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
21203	7	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
21205	9	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	8	5		79	Good	Good		retain
21207	10	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
21212	14	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
21213	15	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	6	5		79	Good	Good		retain
21214	16	Armstrong red maple	<i>Acer rubrum</i> 'Armstrong'	7	5		79	Good	Good		retain
20952	104	Birch	<i>Betula pendula</i>	8	10		314	Good	Good		retain
20953	105	Birch	<i>Betula pendula</i>	7	7		154	Good	Good	Four leaders: 4,4,3,3.	retain
20955	102	Birch	<i>Betula pendula</i>	8	15		707	Good	Good	Three leaders:6,5,3.	retain
Added	103	Birch	<i>Betula pendula</i>	5	7		154	Good	Good		retain
20120	76	Cottonwood	<i>Populus trichocarpa</i>	6	7		154	Good	Good		retain
20121	77	Cottonwood	<i>Populus trichocarpa</i>	15	15		707	Good	Good	Two leaders:12,7	retain
20122	78	Cottonwood	<i>Populus trichocarpa</i>	7	10		314	Good	Good		retain
20123	80	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain



Tree Inventory - Sherwood Industrial Park
SW Century Dr and SW Tualatin Sherwood Rd
Conducted 7/7/2021
Christine Johnson, PN-8730A

Survey No.	Tree No.	Common Name	Scientific Name	DBH ¹ (in)	Crown Radius (ft)	Column1	Crown Area (sq ft)	Condition ²	Structure ²	Comments	Treatment
20124	79	Cottonwood	<i>Populus trichocarpa</i>	8	12		452	Good	Good		retain
20396	81	Cottonwood	<i>Populus trichocarpa</i>	7	10		314	Good	Good		retain
20397	82	Cottonwood	<i>Populus trichocarpa</i>	10	17		908	Good	Good		retain
20398	83	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20399	84	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Fair	Failed split tree to the N, not inventoried; unbalanced canopy to the S.	retain
20098	44	Cottonwood	<i>Populus trichocarpa</i>	13	12		452	Good	Good	Two leaders:10,9.	retain
20099	45	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain
20099	46	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain
20100	47	Cottonwood	<i>Populus trichocarpa</i>	12	15		707	Good	Good		retain
20101	48	Cottonwood	<i>Populus trichocarpa</i>	17	12		452	Good	Good	Two leaders:12,12.	retain
20102	49	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good		retain
20103	50	Cottonwood	<i>Populus trichocarpa</i>	14	15		707	Good	Good		retain
20104	51	Cottonwood	<i>Populus trichocarpa</i>	20	15		707	Good	Good	Two leaders: 13,15.	retain
20105	53	Cottonwood	<i>Populus trichocarpa</i>	14	10		314	Good	Good		retain
20106	54	Cottonwood	<i>Populus trichocarpa</i>	8	7		154	Good	Fair	Lost and regrew leader; wide angle.	retain
20107	55	Cottonwood	<i>Populus trichocarpa</i>	15	12		452	Good	Good		retain
20108	56	Cottonwood	<i>Populus trichocarpa</i>	12	12		452	Good	Good		retain
20109	58	Cottonwood	<i>Populus trichocarpa</i>	9	10		314	Good	Good		retain
20110	66	Cottonwood	<i>Populus trichocarpa</i>	14	15		707	Good	Good		retain
20111	67	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20112	68	Cottonwood	<i>Populus trichocarpa</i>	14	12		452	Good	Good	Two leaders:10,10	retain
20113	69	Cottonwood	<i>Populus trichocarpa</i>	6	5		79	Good	Good		retain
20114	70	Cottonwood	<i>Populus trichocarpa</i>	8	7		154	Good	Good		retain
20115	71	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20116	72	Cottonwood	<i>Populus trichocarpa</i>	8	12		452	Good	Good		retain
20117	73	Cottonwood	<i>Populus trichocarpa</i>	10	15		707	Good	Good		retain
20118	74	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20119	75	Cottonwood	<i>Populus trichocarpa</i>	7	10		314	Good	Good		retain
20125	65	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain
20126	64	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain
20127	63	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good		retain
20128	61	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good	Two leaders:6,6.	retain
20129	60	Cottonwood	<i>Populus trichocarpa</i>	8	12		452	Good	Good		retain
20130	59	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20386	138	Cottonwood	<i>Populus trichocarpa</i>	17	20		1257	Good	Good	Two leaders:12,12.	retain
20387	139	Cottonwood	<i>Populus trichocarpa</i>	9	10		314	Good	Good		retain
20388	141	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good		retain
20389	142	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good		retain
20390	144	Cottonwood	<i>Populus trichocarpa</i>	11	10		314	Good	Good	Two leaders:8,8.	retain
20391	145	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20392	146	Cottonwood	<i>Populus trichocarpa</i>	9	12		452	Good	Good		retain
20393	147	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good	Four leaders: 8,5,4,4.	retain
20394	149	Cottonwood	<i>Populus trichocarpa</i>	7	12		452	Good	Good		retain
20395	148	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain



Tree Inventory - Sherwood Industrial Park
SW Century Dr and SW Tualatin Sherwood Rd
Conducted 7/7/2021
Christine Johnson, PN-8730A

Survey No.	Tree No.	Common Name	Scientific Name	DBH ¹ (in)	Crown Radius (ft)	Column1	Crown Area (sq ft)	Condition ²	Structure ²	Comments	Treatment
20400	85	Cottonwood	<i>Populus trichocarpa</i>	12	15		707	Good	Good		retain
20401	88	Cottonwood	<i>Populus trichocarpa</i>	5	7		154	Good	Good		retain
20402	87	Cottonwood	<i>Populus trichocarpa</i>	10	12		452	Good	Good	Codominant leader failed years ago.	retain
20403	89	Cottonwood	<i>Populus trichocarpa</i>	11	12		452	Good	Good	Two leaders:8,7.	retain
20404	90	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20405	92	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20406	95	Cottonwood	<i>Populus trichocarpa</i>	13	15		707	Good	Good	Two leaders:8,10	retain
20407	94	Cottonwood	<i>Populus trichocarpa</i>	5	7		154	Good	Good		retain
20410	96	Cottonwood	<i>Populus trichocarpa</i>	10	12		452	Good	Good		retain
20706	97	Cottonwood	<i>Populus trichocarpa</i>	7	10		314	Good	Good		retain
20707	98	Cottonwood	<i>Populus trichocarpa</i>	13	15		707	Good	Good		retain
20708	99	Cottonwood	<i>Populus trichocarpa</i>	20	22		1520	Good	Good		retain
20840	116	Cottonwood	<i>Populus trichocarpa</i>	16	20		1257	Good	Good		retain
20841	117	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain
20842	118	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20843	119	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20844	123	Cottonwood	<i>Populus trichocarpa</i>	14	12		452	Good	Good	Two leaders:12,8.	retain
20845	124	Cottonwood	<i>Populus trichocarpa</i>	6	5		79	Good	Good		retain
20846	125	Cottonwood	<i>Populus trichocarpa</i>	5	7		154	Good	Good		retain
20847	126	Cottonwood	<i>Populus trichocarpa</i>	6	10		314	Good	Good		retain
20848	121	Cottonwood	<i>Populus trichocarpa</i>	6	8		201	Good	Good		retain
20849	122	Cottonwood	<i>Populus trichocarpa</i>	8	12		452	Good	Good	Two leaders:6,5.	retain
20850	120	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good	Two leaders:7,4.	retain
20851	127	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good		retain
20852	128	Cottonwood	<i>Populus trichocarpa</i>	9	10		314	Good	Good	Two leaders:7,6.	retain
20853	129	Cottonwood	<i>Populus trichocarpa</i>	10	12		452	Good	Good		retain
20854	130	Cottonwood	<i>Populus trichocarpa</i>	11	15		707	Good	Good	Four leaders: 6,6,6,4.	retain
20855	131	Cottonwood	<i>Populus trichocarpa</i>	6	8		201	Good	Good		retain
20856	133	Cottonwood	<i>Populus trichocarpa</i>	7	10		314	Good	Good		retain
20857	134	Cottonwood	<i>Populus trichocarpa</i>	5	8		201	Good	Good		retain
20858	135	Cottonwood	<i>Populus trichocarpa</i>	6	8		201	Good	Good		retain
20954	106	Cottonwood	<i>Populus trichocarpa</i>	9	12		452	Good	Good	Incorrect icon on survey; small two-stem birch to NW.	retain
20956	107	Cottonwood	<i>Populus trichocarpa</i>	15	10		314	Good	Good		retain
20958	109	Cottonwood	<i>Populus trichocarpa</i>	20	15		707	Good	Good	Three leaders:15,11,8.	retain
20959	110	Cottonwood	<i>Populus trichocarpa</i>	11	8		201	Good	Good		retain
20960	113	Cottonwood	<i>Populus trichocarpa</i>	6	7		154	Good	Good		retain
20961	114	Cottonwood	<i>Populus trichocarpa</i>	6	7		154	Good	Good		retain
20962	115	Cottonwood	<i>Populus trichocarpa</i>	5	7		154	Good	Good		retain
20963	112	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
20964	111	Cottonwood	<i>Populus trichocarpa</i>	7	8		201	Good	Good		retain
20859/30385	137	Cottonwood	<i>Populus trichocarpa</i>	16	20		1257	Good	Good	Two leaders:10,12.	retain
Added	52	Cottonwood	<i>Populus trichocarpa</i>	9	10		314	Good	Good	Two leaders:8,5.	retain
Added	57	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
Added	62	Cottonwood	<i>Populus trichocarpa</i>	6	7		154	Good	Good		retain
Added	86	Cottonwood	<i>Populus trichocarpa</i>	7	10		314	Good	Good	W of 85.	retain



Tree Inventory - Sherwood Industrial Park
SW Century Dr and SW Tualatin Sherwood Rd
Conducted 7/7/2021
Christine Johnson, PN-8730A

Survey No.	Tree No.	Common Name	Scientific Name	DBH ¹ (in)	Crown Radius (ft)	Column1	Crown Area (sq ft)	Condition ²	Structure ²	Comments	Treatment
Added	91	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
Added	93	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good		retain
Added	101	Cottonwood	<i>Populus trichocarpa</i>	5	7		154	Good	Good		retain
Added	132	Cottonwood	<i>Populus trichocarpa</i>	6	8		201	Good	Good		retain
Added	136	Cottonwood	<i>Populus trichocarpa</i>	6	8		201	Good	Good		retain
Added	140	Cottonwood	<i>Populus trichocarpa</i>	8	7		154	Good	Good	Two leaders:6,6.	retain
Added	143	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good		retain
Added	150	Cottonwood	<i>Populus trichocarpa</i>	11	12		452	Good	Good	31' W of sidewalk, 18' N of #28.	retain
Added	151	Cottonwood	<i>Populus trichocarpa</i>	7	7		154	Good	Good	7' west and a few ft S of 150.	retain
Added	152	Cottonwood	<i>Populus trichocarpa</i>	9	12		452	Good	Good		retain
Added	153	Cottonwood	<i>Populus trichocarpa</i>	10	10		314	Good	Good		retain
Added	154	Cottonwood	<i>Populus trichocarpa</i>	8	10		314	Good	Good	21' S of #27, inland.	retain
Added	100	Cottonwood	<i>Populus trichocarpa</i>	7	20		1257	Good	Good		retain
11678	155	English oak	<i>Quercus robur</i>	7	10		314	Good	Good		retain
10020	22	Norway maple	<i>Acer platanoides</i>	7	7		154	Good	Good		retain
10023	23	Norway maple	<i>Acer platanoides</i>	6	5		79	Good	Good		retain
10024	24	Norway maple	<i>Acer platanoides</i>	6	7		154	Good	Good		retain
10025	25	Norway maple	<i>Acer platanoides</i>	5	5		79	Fair	Fair	Dying leader; bark crack on W side; unbalanced to the E.	retain
10026	26	Norway maple	<i>Acer platanoides</i>	6	7		154	Fair	Good	Some dead branches in interior.	retain
10027	27	Norway maple	<i>Acer platanoides</i>	7	7		154	Good	Good		retain
10297	184	Norway maple	<i>Acer platanoides</i>	6	7		154	Fair	Fair	Dead branches; unbalanced to the E; inclusion.	retain
10298	185	Norway maple	<i>Acer platanoides</i>	4	5		79	Good	Good		retain
10300	186	Norway maple	<i>Acer platanoides</i>	6	7		154	Fair	Fair	wood; dead branches.	retain
10301	187	Norway maple	<i>Acer platanoides</i>	6	7		154	Good	Good	Wound on E side of trunk.	retain
11679	156	Sweetgum	<i>Liquidambar styraciflua</i>	7	7		154	Good	Good	Two wounds on S side of trunk; good wound wood.	retain
11680	157	Sweetgum	<i>Liquidambar styraciflua</i>	7	10		314	Good	Good		retain
11681	158	Sweetgum	<i>Liquidambar styraciflua</i>	7	10		314	Good	Good		retain
11682	159	Sweetgum	<i>Liquidambar styraciflua</i>	7	10		314	Good	Good		retain
11683	160	Sweetgum	<i>Liquidambar styraciflua</i>	9	10		314	Good	Good		retain
11684	161	Sweetgum	<i>Liquidambar styraciflua</i>	7	10		314	Good	Good		retain
11685	162	Sweetgum	<i>Liquidambar styraciflua</i>	8	12		452	Good	Good		retain
11686	163	Sweetgum	<i>Liquidambar styraciflua</i>	9	10		314	Good	Good		retain
20957	108	Willow	<i>Salix sp.</i>	Avg. 3	7		154	Good	Good	8 leaders averaging 3" diameter.	retain

¹ DBH (Diameter at Breast Height). The trunk diameter measured at industry standard, 4.5 feet above ground.

² Condition and Structure ratings range from Good, Fair, Poor, Very Poor, to Dead.

Appendix E: Tree Protection Specifications

It is critical that the following steps be taken to ensure that they are retained and protected.

Before Construction Begins

2. Notify all contractors of the tree protection procedures. For successful tree protection on a construction site, all contractors must know and understand the goals of tree protection. It can only take one mistake with a misplaced trench or other action to destroy the future of a tree.

- a. Hold a Tree Protection meeting with all contractors to fully explain goals of tree protection.
- b. Have all subcontractors sign memoranda of understanding regarding the goals of tree protection. Memoranda to include penalty for violating tree protection plan. Penalty to equal appraised value of tree(s) within the violated tree protection zone per the current Trunk Formula Method as outline by the Council of Tree & Landscape Appraisers current edition of the *Guide for Plant Appraisal*.

3. Fencing.

- a. Establish fencing around each tree or grove of trees to be retained as shown on the tree protection site plan.
- b. The fencing is to be put in place before the ground is cleared to protect the trees and the soil around the trees from any disturbance at all. Exception is if trees are to be removed that are located within the tree protection zones, they should be removed prior to installing the tree protection fencing without the use of mechanized wheeled or tracked equipment.
- c. Fencing is to be placed at the edge of the root protection zone as shown on the Tree Protection Plan (Appendix 3). Root protection zones are established by the project arborist based on the needs of the site and the tree to be protected.
- d. "Protection fencing consisting of a minimum 4-foot-high metal fencing, secured with 6-foot metal posts shall be established at the edge of the root protection zone and permissible encroachment area on the development site. Existing structures and/or existing secured fencing at least 3.5 feet tall can serve as the required protective fencing."
- e. Fencing is to remain in the position that is established by the project arborist and not to be moved without written permission from the project arborist until the end of the project.

4. Signage

- a. All tree protection fencing should have signage clearly indicating that the area is a vegetation protection zone, appendix 6.
- b. Signage should be placed as to be visible from all sides of a tree protection area and spaced every 35 feet.

**TREE PROTECTION ZONE
DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE
PROTECTION FENCING.**

Please contact the project arborist if alterations to the approved location of the tree protection fencing are necessary.

Project Arborist – 503.697.4975

info@teragan.com

During Construction

5. 1Protection guidelines within the Root Protection Zone

- a. No traffic shall be allowed within the root protection zone. No vehicle, heavy equipment, or even repeated foot traffic.
- b. No storage of materials including but not limited to soil, construction material, or waste from the site.
 - i. Waste includes but is not limited to concrete wash out, gasoline, diesel, paint, cleaner, thinners, etc.
- c. Construction trailers are not to be parked / placed within the root protection zone without written clearance from the project arborist.
- d. No vehicles shall be allowed to park within the root protection areas.
- e. No activity shall be allowed that will cause soil compaction within the root protection zone.

6. Tree protection. Retained trees shall be protected from any cutting, skinning, or breaking of branches, trunks, or roots.

7. Root pruning. Any roots that are to be cut from existing trees that are to be retained, the project consulting arborist shall be notified to evaluate, document, and oversee the proper cutting of roots with sharp cutting tools. Cut roots are to be immediately covered with soil or mulch to prevent them from drying out.

8. Grade changes. No grade change should be allowed within the root protection zone.

9. Root protection zone changes. Any necessary deviation of the root protection zone shall be cleared by the project consulting arborist in writing.

10. Watering. Provide water to trees during the summer months as needed. Tree(s) that will have had root system(s) cut back will need supplemental water to overcome the loss of ability to absorb necessary moisture during the summer months.

11. Utilities. Any necessary passage of utilities through the root protection zone shall be by means of tunneling under roots by hand digging or boring.

12. Re-inspection of fencing. Tree protection fencing is subject to inspection by the city. The project arborist highly recommends monthly inspections of tree protection fencing to ensure compliance with the permit and protection of the trees.

After Construction

14. Fences are to remain standing until the completion of the project.
15. Carefully landscape around the tree. Do not allow trenching within the root protection zone which still exists even though the tree protection fencing has been removed for landscape installation. Carefully plant new plants within the root protection zone. Avoid cutting the roots of the existing trees.
16. Do not plan for irrigation within the root protection zone of existing trees unless it is drip irrigation for a specific planting or cleared by the project arborist.
17. Provide for or ensure that adequate drainage will occur around the retained trees.
18. Pruning of the trees should be completed as one of the last steps of the landscaping process before the final placement of trees, shrubs, ground covers, mulch, or turf.
19. Trees that are retained may need to be fertilized as called for by the project arborist if acceptable thresholds are exceeded.