INLAY W.M. IN COUNTY, AND GRIND DRIVE

SKET

COVER

SHEET 1

AERIAL TOPOGRAPHIC MAP (2004) AND VISUAL OBSERVATION.

SURVEY INFORMATION:

AERIAL TOPOGRAPHIC MAP (2004) WITH ADDITIONAL LEVEL INFORMATION PERFORMED FOR STORM SEWER DESIGN.

CITY OF SHERWOOD LANGER DRIVE GRIND AND INLAY

MARCH 2022

(BID DOCUMENT VOLUME 2 OF 2 - CONTRACT DRAWINGS)

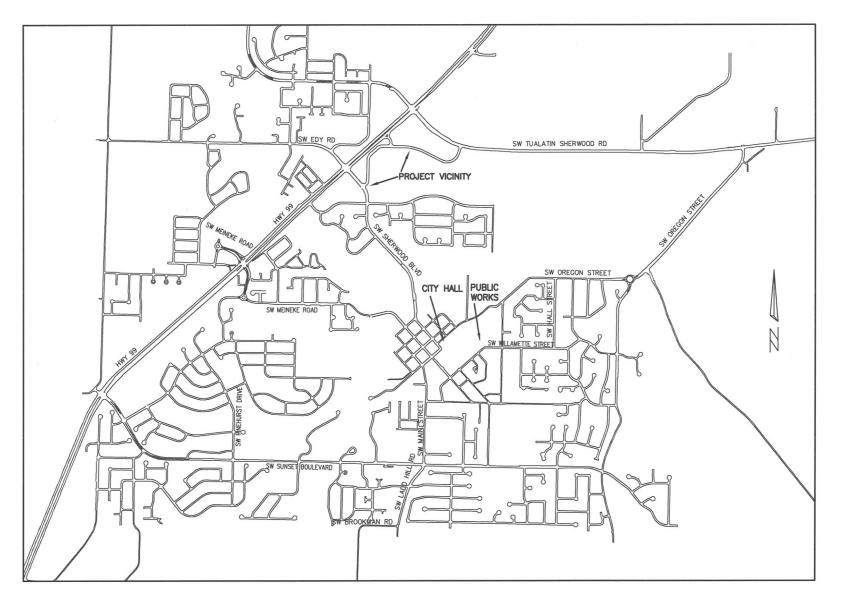
PROJECT LOCATION:

SW LANGER DRIVE (SW SHERWOOD BOULEVARD TO SW HOLLAND LANE)

DEVELOPER/OWNER: CITY OF SHERWOOD 22560 SW PINE ST SHERWOOD, OREGON 97140 CONTACT: CRAIG CHRISTENSEN, P.E. PH. 503-925-2301 CHRISTENSENC@SHERWOODOREGON.GOV

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- DETAILS
- 9. EROSION CONTROL DETAILS



THIS DESIGN COMPLIES WITH ORS 92.044 (7) IN THAT NO UTILITY INFRASTRUCTURE IS DESIGNED TO BE WITHIN ONE (1) FOOT OF A SURVEY MONUMENT LOCATION SHOWN ON A SUBDIVISION OR PARTITION PLAT. NO DESIGN EXCEPTIONS NOR FINAL FIELD LOCATION CHANGES SHALL BE PERMITTED IF THAT CHANGE WOULD CAUSE ANY UTILITY INFRASTRUCTURE TO BE PLACED WITHIN THE PROHIBITED AREA.

VICINITY MAP NOT TO SCALE

ATTENTION EXCAVATORS: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-011-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING (503) 232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BEFORE COMMENCING ANY EXCAVATION. CALL (503) 246-6699.

INPSECTOR INFORMATION:

CITY OF SHERWOOD: ANDY STIRLING (503) 925-2307 CONTACT INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION.

GENERAL NOTES

- ALL CONSTRUCTION WORK, MATERIALS AND TESTING SHALL CONFORM TO THE APPLICABLE SECTION OF THE CITY OF SHERWOOD ENGINEERING DESIGN AND STANDARD DETAILS MANUAL. CONTRACTOR AND SUBCONTRACTOR(S) SHALL HAVE A MINIMUM OF ONE SET OF APPROVED PLANS AND CITY OF SHERWOOD CONSTRUCTION SPECIFICATIONS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES, AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE, COUNTY, AND LOCAL, RELATING TO THE PERFORMANCE OF THIS WORK. A CITY OF SHERWOOD OR A METRO BUSINESS LICENSE IS REQUIRED FOR THE CONTRACTOR AND ALL SUPPORTANCIOSE.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION AND ARRANGE FOR PROTECTION OF UTILITIES IN CONFLICT WITH PROPOSED WORK. THE LOCATIONS, DEPTH AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. POTHOLING PRIOR TO CONSTRUCTION MAY BE NECESSARY. ALL WORK TO VERIFY UTILITY LOCATIONS AND DEPTHS IS INCIDENTAL.
- 4. OREGON LAW REQUIRES THE CONTRACTOR 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. THE CONTRACTOR MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING (503) 232-1987 OR BY ACCESSING THE INTERNET AT WWW.STATE.OR.US/GOVERNMENT.HTM. THE CONTRACTOR MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS, BUT NOT MORE THAN 10 BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL (503) 246-6699.
- 5. THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIAL AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER AND NOTIFICATION TO SERVICE CUSTOMER. REPAIR TO UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 6. THE CONTRACTOR SHALL PRUNE ALL VEGETATION, AS NECESSARY FOR EQUIPMENT CLEARANCES AWAY AND UP FROM THE STREET AND SIDEWALK. AS WELL AS ANY ROOT PRUNING AS DETERMINED BY THE ENGINEER OR INSPECTOR. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING THAT IS TO REMAIN. DAME OF TO TREES AND SHRUBS IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR. COST OF TREE PRUNING IS INCIDENTAL.
- CONTRACTOR SHALL NOTIFY THE CITY OF SHERWOOD 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS. OR HOLIDAYS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF TREES, STUMPS, BRUSH, ROOTS, EXCESS TOPSOIL, AND OTHER EXCESS
 MATERIAL OFF SITE. MATERIALS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS.
 DISPOSAL LOCATION INFORMATION TO BE PROVIDED TO CITY PRIOR TO BEGINNING ANY WORK.
- 9. CONSTRUCTION VEHICLES SHALL PARK AT A LOCATION APPROVED BY THE INSPECTOR OR AT A LOCATION(S) INDICATED ON AN APPROVED PLAN. HOURS OF CONSTRUCTION SHALL BE AS SPECIFIED IN THE PLANS. CONSTRUCTION IS PROHIBITED ON SATURDAY AND SUNDAY UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE PUBLIC WORKS DIRECTOR AND CITY MANAGER. CONSTRUCTION ACTIVITIES INCLUDE ALL FIELD MAINTENANCE OF EQUIPMENT, REFUELING, AND PICK UP AND DELIVERY OF FOUIPMENT AS WELL AS THE ACTUAL CONSTRUCTION ACTIVITY.
- 10. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL
- 11. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES WITH ALL KNOWN CHANGES REDLINED ON THE WORKING PLAN SET FOR THE SOLE PURPOSE OF RECORDING AS BUILT INFORMATION OF IMPROVEMENTS AND LOCATION AND DEPTH OF ANY EXISTING UTILITIES ENCOUNTERED.
- 12. ANY ALTERATIONS OR VARIATIONS FROM THESE PLANS EXCEPT MINOR FIELD ADJUSTMENTS NEEDED TO MEET EXISTING FIELD CONDITIONS, SHALL BE APPROVED BY THE ENGINEER AND APPLICABLE REGULATORY AGENCY REPRESENTATIVE. CONTRACTOR SHALL KEEP RECORD OF ALL CHANGES AND NOTE ON AS BUILT PLANS. CONTRACTOR SHALL SUBMIT ACCURATE AND COMPLETE "AS-BUILT" INFORMATION TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION.
- 13. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, APPLICABLE AGENCY REQUIREMENTS AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE
- 14. CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT BE LIMITED TO, GRADING, DITCHING, STRAW MATILES, TRIANGULAR SILT DAMS, SILT FENCING, AND SEDIMENT BARRIERS TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTY. SEE EROSION AND SEDIMENT CONTROL NOTES AND PLANS.
- 15. THE CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES. THE CONTRACTOR SHALL NOTIFY AFFECTED RESIDENTS A MINIMUM OF 48 HOURS PRIOR TO ANY DRIVEWAY CLOSURES AND ASSIST PROPERTY OWNER WITH ALTERNATIVE PARKING AND ACCESS. PEDESTRIAN ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR WILL PROVIDE RAMPS OR OTHER APPROVED METHODS FOR MAINTAINING ACCESS TO ENTRANCES. RAMPS SHALL BE ADA COMPLIANT, APPROVED BY THE ENGINEER, AND INCIDENTIAL TO THE CONTRACT. RESIDENTIAL DRIVEWAYS MAY ONLY BE CLOSED FOR A MAXIMUM OF ONE DAY (7:00 AM TO 6:00 PM).
- 16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE PROJECT ENGINEER FOR CLARIFICATION OR CORRECTION.
- 17. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS. CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS.
- 18. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN CONFORMING TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION AND ACCORDING TO PROJECT SPECIFICATIONS. TRAFFIC CONTROL PLAN SHALL MATCH APPROVED PHASING/SEQUENCING PLAN AND SHALL BE SUBJECT TO THE APPROVAL BY THE CITY. WASHINGTON COUNTY AND/OR ODDIT AS APPLICABLE.
- 19. THE CONTRACTOR SHALL PROVIDE TO THE CITY PROJECT MANAGER AND INSPECTOR A 24 HOUR CONTACT PERSON AND CELL PHONE NUMBER
- NO TRENCHES OR PITS WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. ALL TRENCHES AND PITS SHALL BE COVERED WITH STEEL PLATES OR FILLED IN AT NIGHT.
- PROPERTY LINES SHOWN ON ALL PLAN SHEETS ARE FOR GENERAL DELINEATION ONLY AND ARE, BY NO MEANS, MEANT TO REPRESENT THE ACTUAL BOUNDARIES.

- 22. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH AND OTHER RULES AND REGULATIONS FROM OSHA, DEQ, STATE, AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING BUT NOT LIMITED TO SHORING, BRACING, ERECTION/INSTALLATION, FALL PROTECTION, GUARDRAILS. ETC.
- 23. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES AND UTILITIES NOT SHOWN TO BE REMOVED. CONTRACTOR SHALL REPLACE OR REPAIR ANY EXISTING STRUCTURES (SIDEWALKS, DRIVEWAYS, CURB, FENCE, STREET TREES, ETC.) DAMAGED DURING CONSTRUCTION, IN ACCORDANCE WITH CITY STANDARDS.
- 24. EQUIPMENT PARKED ON SITE SHALL BE PARKED AWAY FROM AN INTERSECTION AT A LOCATION APPROVED BY THE
- 25. WATER FOR CONSTRUCTION MAY BE OBTAINED FROM CITY FIRE HYDRANTS. INSTALL FIRE HYDRANT METER PRIOR TO DRAWING WATER. FIRE HYDRANT METER TO BE OBTAINED FROM CITY OF SHERWOOD WATER DEPARTMENT. COORDINATE WITH INSPECTOR. WATER/METER COSTS FOR CONSTRUCTION IS INCIDENTAL.
- 26. ANY EXISTING SURFACE TO REMAIN (CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, ASPHALT, ETC.) THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AND THE CONTRACTOR'S EXPENSE.
- 27. ALL JOINTS BETWEEN EXISTING ASPHALT AND NEW ASPHALT SHALL BE SEALED WITH HOT RUBBERIZED ASPHALT SEALER.
- 28. CONTRACTOR SHALL NOT OVERCUT INTO EXISTING PAVEMENT TO REMAIN.
- 29. CONTRACTOR SHALL RELOCATE EXISTING MAILBOXES AND PROVIDE TEMPORARY SUPPORT AS NECESSARY FOR THE DURATION OF THE WORK. MAILBOXES SHALL BE PERMANENTLY REINSTALLED ACCORDING TO THE DETAIL IN THESE PLANS ONCE NEW CLIER AND GLITTER IS IN PLACE.
- ANY FINISH EXPOSED DIRT SURFACE TO BE TOPPED WITH 2" OF COMPOST MULCH. PAID UNDER "SELECTED TOPSOIL" BID ITEM.
- 31. CONTRACTOR SHALL CONTACT CITY INSPECTOR UPON DISCOVERY OF ANY EXISTING SEWER PIPING/IRRIGATION ENCOUNTERED DURING THE PROJECT FOR ON-SITE INSPECTION. INSPECTOR, ENGINEER AND CONTRACTOR SHALL COORDINATE TO DETERMINE COURSE OF ACTION. IN THE CASE OF SEWER PIPING, PUBLIC WORKS MAY BE CALLED IN TO DETERMINE IF ACTIVE. NO PAYMENT WILL BE MADE FOR DELAY TIME DUE TO ENCOUNTERING/INVESTIGATION OF EXISTING SEWERS.
- 32. THERE MAY BE UNMARKED FRANCHISE SERVICE LINES WITHIN THE WORK ZONE. CONTRACTOR TO EITHER WORK AROUND OR CONTACT UTILITY COMPANY TO RELOCATE. NO PAYMENT WILL BE MADE FOR DELAY TIME/WORK AROUND TIME DUE TO EXISTING FRANCHISE SERVICE LINES.

STREET NOTES

- 1. IN AREAS WHERE CURB AND GUTTER EXISTS, NEW ASPHALT WILL MATCH FRONT EDGE OF CONCRETE GUTTER.
- TACK COAT SHALL BE APPLIED AGAINST CONCRETE GUTTER EDGE, CURB FACE, CONCRETE STRUCTURES, EXISTING ASPHALT EDGE, MANHOLE FRAMES, BLOW-OFF FRAMES, CLEANOUT FRAMES AND OTHER SURFACES OR STRUCTURES THAT WILL BE PAVED AGAINST WITH NEW ASPHALT (INCIDENTAL) PRIOR TO PAVING.
- HOT RUBBERIZED ASPHALT SEALER REQUIRED AT ASPHALT JOINTS (INCIDENTAL). DO NOT OVERCUT ASPHALT. CITY HAS THE RIGHT TO HAVE OVERCUT ASPHALT REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- PAVEMENT CROSS SLOPES ON SHALL GENERALLY MATCH EXISTING CROSS SLOPES. GRADES AT DRIVEWAY INTERSECTIONS SHALL BE GRADED TO DRAIN (NO PONDING).
- NEW ASPHALT SHALL NOT COVER ANY WEEP HOLES (AT I.E. OR LOWER). CITY WILL PHOTO DOCUMENT PROJECT AREA INCLUDING EXISTING CURBS. COVERED WEEPHOLES SHALL BE CLEARED AT CONTRACTORS EXPENSE AND STREET REPAYED.
- 6. TYPICAL FULL CURB EXPOSURE IS 6" AT TOP FACE OF CURB UNLESS OTHERWISE NOTED.
- 7. TYPICAL DRIVEWAY CURB EXPOSURE IS 3/4" AT TOP FACE OF CURB.
- 8. ADJUST ALL EXISTING VALVES, BLOW-OFFS AND OTHER MISCELLANEOUS BOXES AS NECESSARY TO MATCH NEW ASPHALT SURFACE GRADE TO BE PAID FOR LINDER THE RID ITEM OF "ADJUSTING BOXES".
- THERE WILL BE NO ADJUSTMENT OF EXISTING MANHOLE FRAMES FOR THIS PROJECT. NEW ASPHALT TO MATCH EXISTING MANHOLE COVERS.
- CONTRACTOR TO TEST ASPHALT SURFACE WITH 12-FOOT STRAIGHT EDGE IN TRAVEL LANES PARALLEL TO AND PERPENDICULAR TO THE CENTER LINE, AS DIECETED BY THE INSPECTOR. THE ASPHALT SURFACE SHALL NOT VARY BY MORE THAN 1/4 INCH INCLUDING MANHOLE COVERS.
- 11. WATER FOR CONSTRUCTION MAY BE OBTAINED FROM CITY FIRE HYDRANTS. INSTALL FIRE HYDRANT METER PRIOR TO DRAWING WATER. FIRE HYDRANT METER TO BE OBTAINED FROM CITY OF SHERWOOD WATER DEPARTMENT. COORDINATE WITH INSPECTOR. WATER FOR CONSTRUCTION IS PAID FOR BY THE CONTRACTOR AND CONSIDERED INCIDENTAL.
- 12. REPAIR ALL DISTURBED NEIGHBORING PROPERTY BACK TO ORIGINAL OR BETTER CONDITION
- ANY SEGMENT OF STREET OPEN TO TRAFFIC THAT HAS A VERTICAL DROP (INCLUDING DRIVEWAYS) SHALL HAVE A TEMPORARY WEDGE INSTALLED. (INCIDENTAL).
- 14. ANY EXISTING SURFACE TO REMAIN (CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, ETC.) THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AND THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO CLEAN UP JAGGED CONCRETE GUTTER EDGES MEETING THE APPROVAL OF THE INSPECTOR. SOME SAWCUTTING MAY BE REQUIRED. COST IS INCIDENTAL.
- 16. CONTRACTOR TO INSTALL TEMPORARY PAVEMENT MARKING DELINEATION TABS UNTIL PERMANENT PAVEMENT MARKING IS INSTALLED (INCIDENTAL). CONTRACTOR TO REMOVE ONCE PERMANENT MARKING HAS BEEN INSTALLED (INCIDENTAL).

NOTE: STATE OF OREGON MINIMUM PREVAILING WAGE REQUIREMENTS WILL APPLY TO ALL WORK PERFORMED UNDER THIS PROJECT.

STORM SEWER NOTES

- 1. STORM SEWER PIPE SHALL BE AS NOTED ON PLANS AND CONFORM TO THE REQUIREMENTS BELOW.
- STORM SEWER MATERIALS AND TESTING SHALL MEET CLEAN WATER SERVICES (CWS) DESIGN AND CONSTRUCTION SPECIFICATIONS AND THE CITY OF SHERWOOD'S ENGINEERING DESIGN MANUAL.
- CONTRACTOR SHALL PERFORM A MANDREL TEST AND VIDEO TEST ON THE NEW STORM SEWER. THIS WILL BE
 WITNESSED BY THE CITY, MINIMUM 48 HOUR NOTICE IS REQUIRED. ANY PIPE NOT PASSING EITHER TEST SHALL BE
 FIXED BY THE CONTRACTOR WITH CONTRACTOR PERFORMING A NEW MANDREL AND VIDEO TEST. PIPE REPAIRS AND
 TESTING DONE DUE TO TEST FAILURE. ARE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- 4. STORM SEWER TRENCHING MAY BE BROUGHT TO THE SURFACE WITH GRANULAR BACKFILL. CONTRACTOR TO KEEP ASPHALT SURFACE SWEPT AND FREE OF ROCKS (INCIDENTAL). REMOVAL OF TEMPORARY ASPHALT AND TRENCH ROCK FOR INSTALLATION OF FINAL ASPHALT SURFACE IS INCIDENTAL.
- 5. COUPLING TO CONNECT TO EXISTING LATERALS SHALL BE SHIELDED FERNCO COUPLINGS OR APPROVED EQUIVALENT.

EROSION CONTROL INSPECTOR

 CONTRACTOR TO SUPPLY CESCL CERTIFIED EROSION CONTROL INSPECTOR AND PROVIDE CONTACT INFORMATION TO CITY (INCIDENTAL).

PERMITTING/AGENCY COORDINATION

. CONTRACTOR TO OBTAIN ANY/ALL NECESSARY PERMITS/COORDINATING WITH ODOT, WASHINGTON COUNTY (TRAFFIC SIGNAL), AND TRI-MET (INCIDENTAL). COST OF ANY PERMITS TO BE PAID FOR BY THE CONTRACTOR (INCIDENTAL)

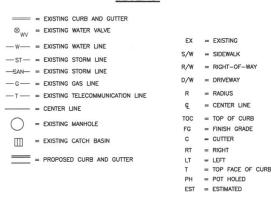
WORK HOURS/TRAFFIC CONTROL NOTES

- 1. WORK HOURS ARE FROM 8:00AM TO 6:00PM MONDAY THROUGH FRIDAY EXCEPT FOR NIGHT TIME PAVING OPERATIONS AS NOTED IN THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAININC DRIVEWAY ACCESS TO BUSINESSES/RESIDENCES, EXCEPT WHEN OTHERWISE APPROVED BY THE CITY AND COORDINATED WITH THE BUSINESS/HOME OWNER.
- CONTRACTOR SHALL MAINTAIN PEDESTRIAN ROUTES THROUGH SITE DURING CONSTRUCTION BY CONSTRUCTING TEMPORARY PEDESTRIAN BYPASSES AS NECESSARY.

STAGING NOTES

1. CONSTRUCTION STAGING AREA IS SHOWN ON SHEET 5.

LEGEND



GENERAL NOTE

29C, T2S, R1W, W.M. IN THE DD, WASHINGTON COUNTY,

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AND

GRIND

DRIVE

LANGER

LOCATED IN SECTION 29C, CITY OF SHERWOOD, W

CITY OF SHERWOOD ENGINEERING DEPARTMENT 22560 SW PINE STREET SHERWOOD, ORGON 97140 PHONE. (503) 925-0529

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DESIGNED BY:

ORANN BY:

CHECKED BY:

FULL SIZE SCALE:

DATE:

MACER DBIVE OVERLAY.S.

JOB NO.

SHEET NO.

or 9

- 1. Once known, include a list of all contractors that will engage in construction activities on site, and the areas of thesite where the contractor(s) will engage in construction activities. Revise the list as appropriate until permitcoverage is terminated (Section 4.4.c.i). In addition, include a list of all personnel (by name and position) that are responsible for the design, installation and maintenance of mwater control measures (e.g. ESCP developer, BMP installer (see Section 4.10), as well as their individual responsibilities. (Section
- 2.Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section6.5) 3.Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.q)
- 4.Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the localmunicipality. (Section
- 5. The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP
- is a violation of the permit. (Sections 4 and 4.11)
 6.The ESCP must be accurate and reflect site conditions. (Section 4.8)
- 7. Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)
- 8. Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming asource of erosion. (Section 2.2.2)

 9.Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater frombypassing controls and
- ponding. (section 2.2.3)
- 10.Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved, Identify vegetative bufferzones between the site and sensitive areas
- (e.g., wetlands), and other areas to be preserved, especially inperimeter areas. (Section 2.2.1)

 11.Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicablebefore and after
- grading or construction. Identify the type of vegetative seed mix used. (Section 2.2.5)

 12.Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)
- 13.Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and
- Rev. 12/15/20 Page 8 of 9 By: Blair Edwards barriers prior to land disturbance. (Sections 2.1.3)
- 14. Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstreamchannels and streambanks. (Sections 2.1.1, and 2.2.16)
- 15. Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at alltimes during construction, both internally and at the site boundary. (Sections 2.2.6 and 2.2.13)
- 16 Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)
- 17.Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as gradingprogresses. Temporary ment stabilizations measures are not required for areas that are intended to be leftunvegetated, such as dirt access roads or utility pole pads.(Sections 2.2.20 and 2.2.21)
- 18.Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)
- 19. Keep waste container lids closed when not in use and close lids at the end of the business day for those containersthat are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g.,a tarp, plastic sheeting, temporary roof) to prevent exposure of wastes to precipitation, or (2) a similarly effectivemeans designed to prevent the discharge of pollutants (e.g., secondary containment). (Section 2.3.7)
- 20 Prevent tracking of sediment onto public or private roads using BMPs such as; construction entrance, graveled (orpaved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must bein place prior to land-disturbing activities. (Section 2.2.7)
- 21. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)
- 22. Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater fromcleanout of stucco, paint and curing compounds. (Sections 1.5 and 2.3.9)
- 23.Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10
- 24.Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)
- 25. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations (Sections 2.2.15 and 2.3)
- 26.Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an OregonProfessional Engineer. (See Section 2.2.17.a)
- 27.If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections2.2.17 and 2.2.18)
- 28. Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepagedue to shallow excavation activities. (See Section 2.4)
- 29.Implement the following BMPs when applicable: written spill prevention and response procedures, employeetraining on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedulefor vehicles and machinery, material delivery and storage controls, training and signage, and covered storageareas for waste and supplies. (Section 2.3)
- 30.Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)
- 31. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within anywaterway riparian zone. (Section 2.3.5)
- 32. If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or otherpollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain Environmental Management Plan approval fromDEQ before operating the treatment system. Operate and maintain the treatment system according tomanufacturer's specifications. (Section 1.2.9)
- 33. Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant isresponsible for ensuring that soils are stable during rain events at all times of the year. (Section 2.2)
- 34.As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, orother BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading tosurface waters. (Section 2.2.8) 35. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and beforefence removal. (Section 2.1.5.b)
- 36.Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above groundheight and before BMF
- 37.Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sedimenttraps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)
- 38. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the causeof the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Landsrequired timeframe. (Section 2.2.19.a)
- 39. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or drysweeping and material pickup must be used to cleanup released sediments. (Section 2.2.19)
- 40.Document any portion(s) of the site where land disturbing activities have permanently ceased or will betemporarily inactive for 14 or more calendar days. (Section 6.5.f.)
- 41.Provide temporary stabilization for that portion of the site where construction activities cease for 14 days ormore with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulchuntil work resumes on that portion of the site.
- 42.Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas isestablished. Once construction is complete and the site is stabilized, all temporary erosion controls and retainedsoils must be removed and disposed of properly, unless needed for long term use following termination of permitcoverage. (Section 2.2.21)

CITY OF SHERWOOD LANGER DRIVE GRIND AND INLAY

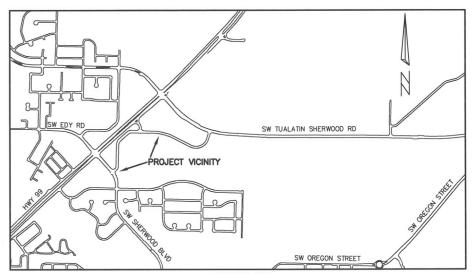
SW LANGER DRIVE (SW SHERWOOD BOULEVARD TO SW HOLLAND LANE)

Site Condition	Minimum Frequency
1.Active period	On initial date that land disturbance activities commence. Within 24 hours of any storm event, including runoff from snow melt, that results in discharge from the site. At least once every 14 days, regardless of whether stormwater runoff is occurring.
2.Inactive periods greater than fourteen (14)consecutive calendar days	The Inspector may reduce the frequency of inspections in any area of the site where the stabilization steps in Section 2.2.20 have been completed to twice per month for the first month, no less than 14 calendar days apart, then once per month.
3.Periods during which the site is inaccessible due to inclement weather	If safe, accessible and practical, inspections must occur daily at a relevant discharge point or downstream location of the receiving waterbody.
4.Periods during which construction activities are suspended and runoff is unlikely due to frozen conditions.	Visual monitoring inspections may be temporarily suspended. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.
5.Periods during which construction activities are conducted and runoff is unlikely during frozen conditions.	Visual monitoring inspections may be reduced to once a month. Immediately resume monitoring upon thawing, or when weather conditions make discharges likely.

BMP MATRIX FOR CONSTRUCTION PHASE

VEDTICAL

PHASE/BMP	CLEARING	MASS GRADING	UTILITY CONSTRUCTION	VERTICAL CONSTRUCTION	FINAL STABILIZATION
		EROSION	PREVENTION		
GROUND COVER					Х
PLASTIC SHEETING					
DUST CONTROL					
TEMPORARY STABILIZATION (STRAW MULCH/HYDROSEED)					
PERMANENT STABILIZATION					х
BUFFER ZONE (FROM RAVINE)					
		SEDIMENT	CONTROL		
SEDIMENT FENCE (PERIMETER)					
SEDIMENT FENCE (INERIOR)					
STRAW WATTLES					
INLET PROTECTION	Х	Х	х		
DEWATERING			x		
		RUN OFF	CONTROL		
CONSTRUCTION ENTRANCE					
EXISTING OUTLET PROTECTION		ı.			
NEW OUTLET PROTECTION					
EXISTING CURB INLET CHECK DAMS					
		RUN OFF	CONTROL		
HAZARDOUS WASTE MANAGEMENT	x	x	x		х
SPILL KIT ONSITE	х	х	х		Х
CONCRETE WASHOUT AREA		x	x		



VICINITY MAP

DEVELOPER/OWNER:

CITY OF SHERWOOD 22560 SW PINE ST SHERWOOD OREGON 97140 CONTACT: CRAIG CHRISTENSEN, P.E. PH. 503-925-2301 CHRISTENSENC@SHERWOODOREGON.GOV

ENGINEER/ESCP PREPARER:

CRAIG CHRISTENSEN, P.E. CITY OF SHERWOOD ENGINEERING DEPARTMENT PH. 503–925–2301 CHRISTENSENC@SHERWOODOREGON.GOV

CONTRACTOR:

BMP INSTALLER/MAINTAINER:

TO BE SUPPLIED BY CONTRACTOR

SITE INFORMATION:

- 1. TYPE OF DEVELOPMENT: STREET MAINTENANCE
- 2. CONSTRUCTION ACTIVITY WILL CONSIST OF:
- A) CATCH BASIN REPLACEMENT
- B) SIDEWALK RAMP REPLACEMENT
- C) PAVEMENT GRIND ASPHALT PLACEMENT
- E) PAVEMENT MARKING
- 3. PROJECT TIMELINE:
- 4. PROJECT AREA:
- 5. OFFSITE IMPROVEMENT AREA:
- 6. SITE SOIL CHARACTERISTICS:
- VEGETATION/TOPSOIL.
- 7. CUT AND FILL DATA: NEGLIGIBLE - SLIGHT CUT AND RESTORE AROUND

APPROXIMATELY 1.95 ACRES OF DISTURBED AREA

SHEET INDEX:

SHEET 3/8 - EROSION CONTROL COVER SHEET SHEET 4/8 - EROSION CONTROL PLAN VIEW SHEET 8/8 - EROSION CONTROL DETAILS

LEGEND

= EXISTING CURB AND GUTTER \otimes_{WV} = EXISTING WATER VALVE

EX = EXISTING - W-- = EXISTING WATER LINE S/W = SIDEWALK -ST- = EXISTING STORM LINE R/W = RIGHT-OF-WAY -SAN- = EXISTING STORM LINE

- G- = EXISTING GAS LINE -T- = EXISTING TELECOMMUNICATION LINE

= CENTER LINE = EXISTING MANHOLE

= EXISTING CATCH BASIN

= PROPOSED CURB AND GUTTER

= PROPOSED MANHOLE

= PROPOSED CATCH BASIN

D/W = DRIVEWAY C = CENTER LINE TOC = TOP OF CURB FG = FINISH GRADE RT = RIGHT = TOP FACE OF CURB

PH = POT HOLED EST = ESTIMATED

CONTROL

EROSION COVER

INLAY

AND

GRIND

DRIVE

LANGER

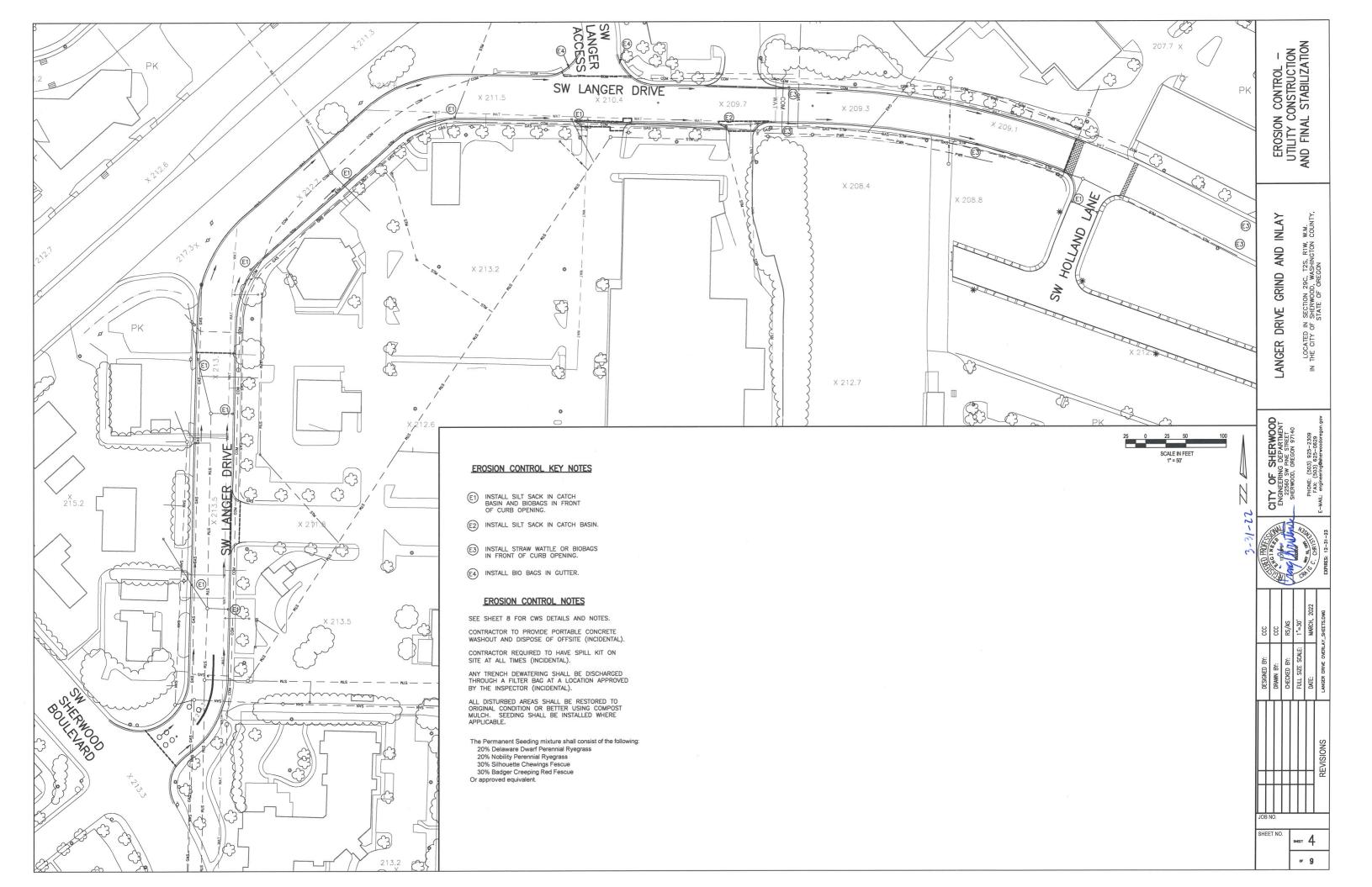
SHERWOOD
AG DEPARTMENT
W PINE STREET
OREGON 97140

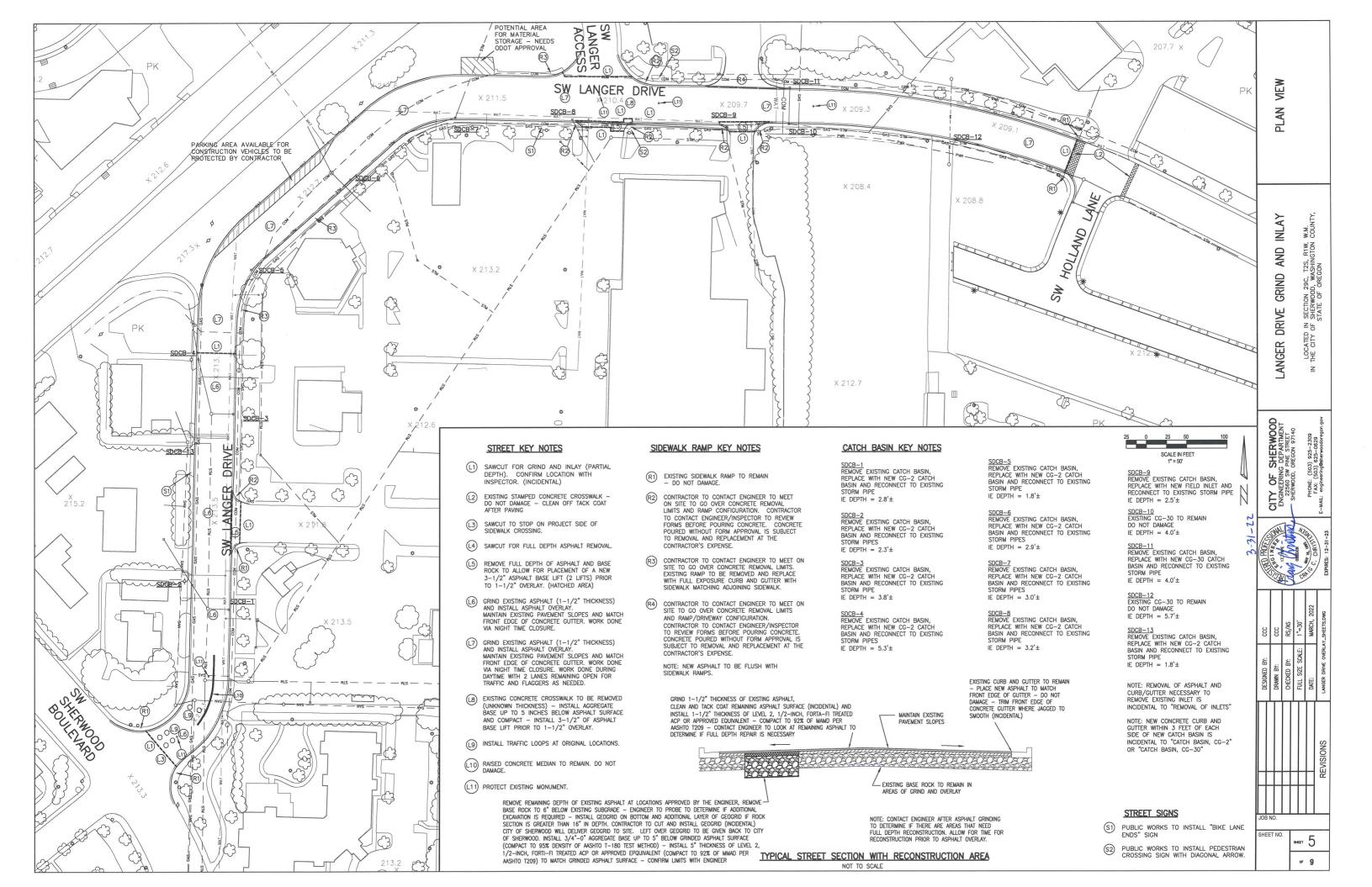
CTZ ENGINE

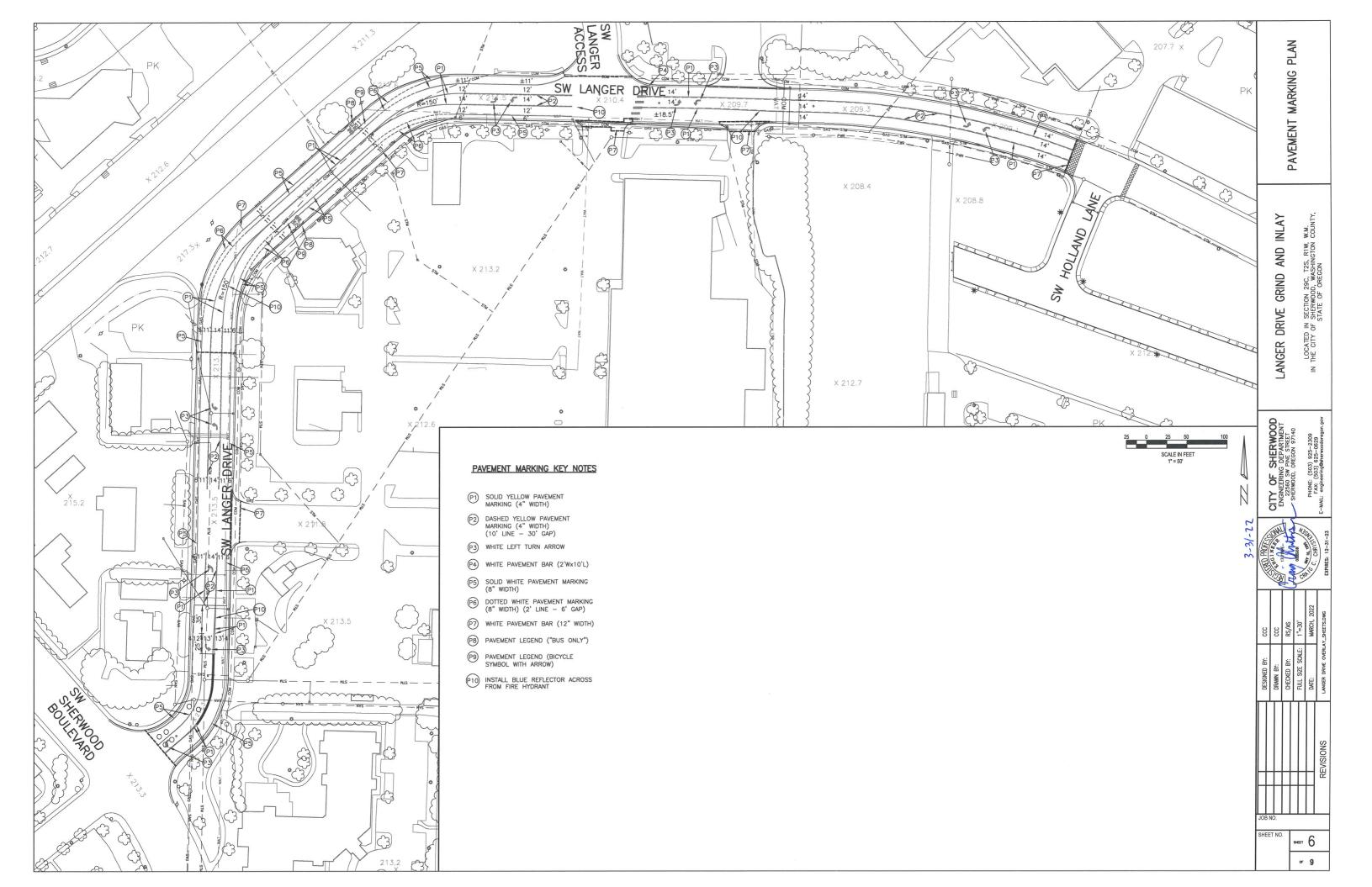
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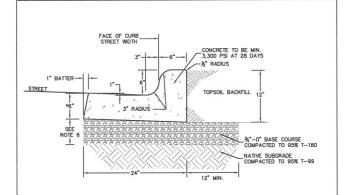






- VERTICAL CURB TO BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS.
- CONCRETE SHALL BE COMMERCIAL MIX. MIN. COMPRESSIVE STRENGTH OF 3,300 PSI AT 28 DAYS.
- EXPANSION JOINTS TO BE PROVIDED: AT POINT OF TANGENCY OF THE CURB, AT EACH COLD JOINT, AT THE SIDE OF INLET STRUCTURES, AT THE ENDS OF DRIVEWAYS AND AT LOCATIONS NECESSARY TO LIMIT SPACING TO 45 FEET.
- CONTRACTION JOINTS SHALL NOT BE SPACED MORE THAN 15 FEET AND SHALL BE 1½" IN DEPTH.
- 6 BASE ROCK: "X"-O", COMPACTED TO 95% MAX DENSITY. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 6" IN DEPTH, WHICHEVER IS GREATER.

Oregon associated in any	STANDARD DRAWING TITLE VERTICAL CURB		DRAWING NUMBER
			RD-21
	Any alteration of this drawing may not be	SCALE	DATE
	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	MAR '16



NOTES:

- NOTES:

 1. MONOLITHIC CURB AND GUTTER SHALL BE USED ON ALL NEW ROADWAY SECTIONS, EXCEPT AT ROADWAY MEDIANS AND AT MOUNTABLE CURB SECTIONS (SEE STD DET RD-21 & RD-24 FOR THESE CONDITIONS).

 2. CONCRETE SHALL BE COMMERCAL MIX, WITH A 28-DAY COMPRESSIVE STRENGTH OF 3,300 PS, WITH A 4 MAX SLUMP.

 3. EXPANSION DOE PROVIDED AT EACH:

 POINT OF TANCENCY.

 6. COLD JOINT.

 C. SIDE OF INLET STRUCTURES.

 D. SIDE OF DRIVEWAYS.

 4. EXPANSION JOINT MATERIAL SHALL BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF ACTS SHALL HAVE:

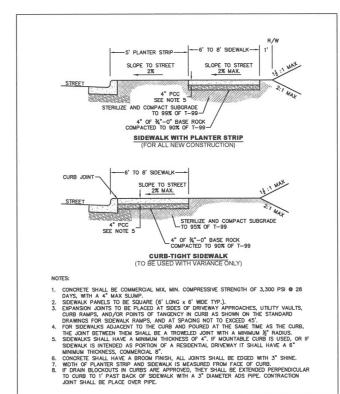
 5. COLD STANDARD OF NOT MORE THAN 15 FEET.

 6. BASE ROCK SHALL BE X'-O', COMPROTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE X'-O', COMPROTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE X'-O', COMPROTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-180. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURES OR 6', WHICHEVER IS GREATER, AND SHALL EXTEND 12' BEHIND CURB.

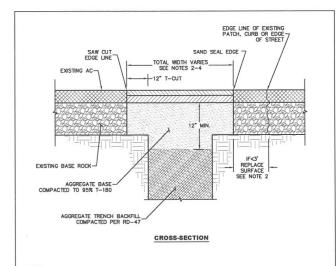
 7. FOR CURB AND CUTTER REQUIREMENTS ON SHED AND SUPERELEVATED ROAD SECTIONS, SEE STD DET RO-23

 **COMMERCIAL DRIVEWAY DROPS SHALL BE 8' THICK, RE-BAR REINFORCED, AND 4,000 PSI AT 28 DAYS.
- 23 MERCIAL DRIVEWAY DROPS SHALL BE 8" THICK, RE-BAR REINFORCED, AND 4,000 PSI AT 28 DAYS.

Oregon	STANDARD DRAWING TITLE MONOLITHIC CURB AND GUTTER		DRAWING NUMBER
			RD-22
	Any alteration of this drawing may not be	SCALE	DATE
	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	MAR '16



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	STANDARE	DRAWING TITLE	DRAWING NUMBER
	SIDEV	SIDEWALK DETAIL	
herwood	Any alteration of this drawing may not be	SCALE	DATE
Oregon associated in any way with the City of		NTO	MADIAC



NOTES:

- T-CUT IS 12" MINIMUM FOR TRENCHES WIDER THAN 12".

 IF NEW BEGG OF PAVEMENT IS LESS THAN 3" FROM ANOTHER PATCH, CURB, EDGE OF STREET OR LONGTUDIAL CRACK, REPLACE THE PAVEMENT IN BETWEEN.

 IF MORE THAN ONE EXISTING PATCH EDGE IS WITHIN THE 3" ZONE, REMOVE PAVEMENT TO THE FAR EDGE OF THE PRE-EXISTING PATCH.

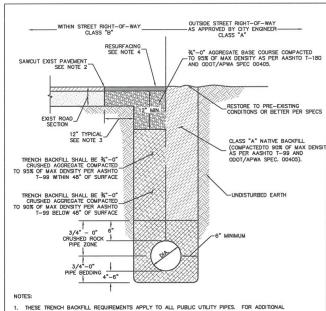
 NEW EDGE OF PAVEMENT (EDGE LINE) SHALL NOT LIE IN A WHEEL PATH. WIDTH OF T-CUT SHALL BE WIDENED WHERE NECESSARY TO MOVE THE EDGE LINE OUT OF THE WHEEL PATH.

 SEE STD DET RO-20 FOR TYPICAL STREET PAVEMENT SECTION.

 SEE STD DET RO-30 FOR TYPICAL STREET PAVEMENT SECTION.

 SEE STD DET RO-40 FOR TYPICAL TIRENCH BACKFILL REQUIREMENTS.

Sherwood	STANDARD DRAWING TITLE		DRAWING NUMBER
	PIPE TRENCH RESTORATION		RD-45
	Any alteration of this drawing may not be	SCALE	DATE
	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	MAR '16



- NOTES:

 THESE TRENCH BACKFILL REQUIREMENTS APPLY TO ALL PUBLIC UTILITY PIPES. FOR ADDITIONAL REQUIREMENTS, SEE CITY STANDARD DESIGN MANUAL. SECTION 2(0.18).

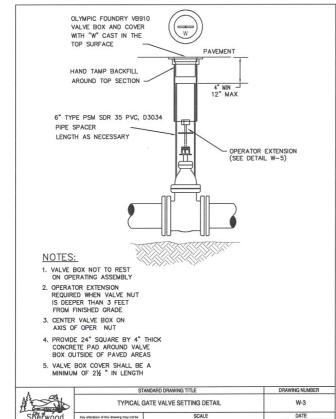
 SAWCUT EXSTRING HANC PAYEMENT FULL DEPTH. SAWCUT EXSTRING PCC PAYEMENT ACCORDING TO CITY STANDARD DETAILS.

 1.2° FOR TRENCHES WIDER THAN 12°. 6° FOR TRENCHES LESS THAN 12°.

 4. MATCH EXISTING PAYEMENT MATERIAL(S). THICKNESS SHALL BE AS FOLLOWS:

 1.1. FOR EXISTING HANC. RESURFACE TO A MINIMUM OF 5° O' CIEVEL 2, 8° DENSE HMAC OR EXISTING AC THICKNESS PLUS 2'. WHICHEVER IS GREATER, BUT DO NOT EXCEED 6°. COMPACT ACI NZ "MAX LIFTS TO ADDITION POCE EXISTING PAYEMENT THICKNESS PLUS 2', BUT NOT LESS THAN 8°. ON ARTERIAL PAYEMENT OF COMPACT ACI NZ "ANX LIFTS OF A PROPRIED BY COMPACT ACI NZ "COMPACT ACI NZ "ON ARTERIAL SHALL BE HIGH EARLY STRENGTH CLASS 5000 PSP CA APPROVED BY GITY FOR CHINER PAYEMENT THICKNESS PLUS 2', BUT NOT LESS THAN 8°. ON ARTERIAL SHALL BE HIGH EARLY STRENGTH CLASS 5000 PSP CA APPROVED BY GITY FOR CHINER PAYEMENT THE PAYEMENT OF CREATER AS SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR COMPANYED BY THE PAYEMENT HIGHER ASPHALT OR DEADLED.

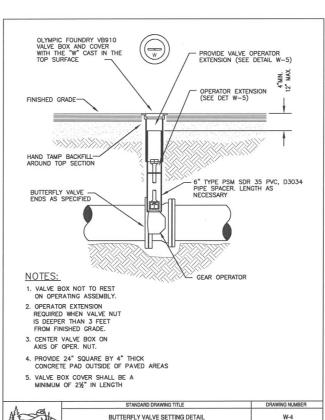
EQUIVALENT.	STANDARD DRAWING TITLE PIPE TRENCH BACKFILL		DRAWING NUMBER
			RD-47
Sherwood	Any alteration of this drawing may not be	SCALE	DATE
	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	MAR '16



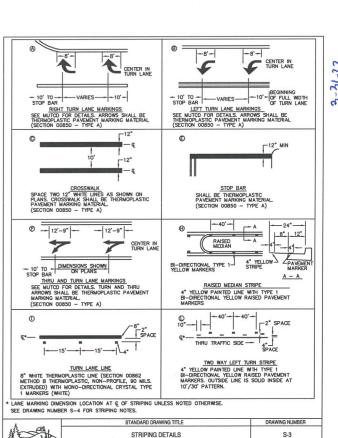
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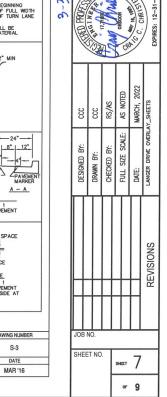
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Sherwood	STANDARD DRAWING TITLE		DRAWING NUMBER
	BUTTERFLY VALVE SETTING DETAIL		W-4
	Any alteration of this drawing may not be	SCALE	DATE
	associated in any way with the City of Sherwood Standard Drawings.	N.T.S.	JUL' 09



N.T.S.



DETAILS

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CITY OF SHERWOOD ENGINEERING DEPARTMENT 22560 SW PINE STREET SHERWOOD, OREGON 97140

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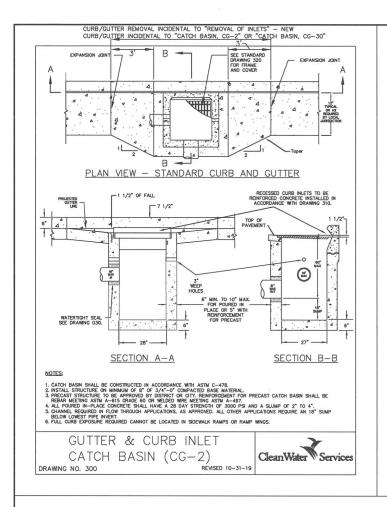
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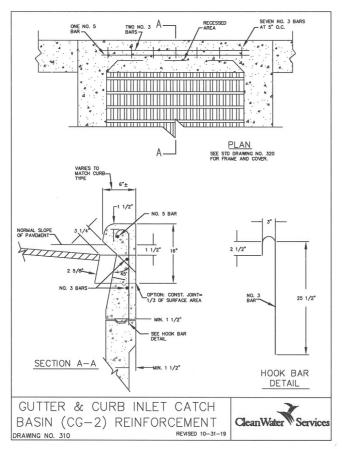
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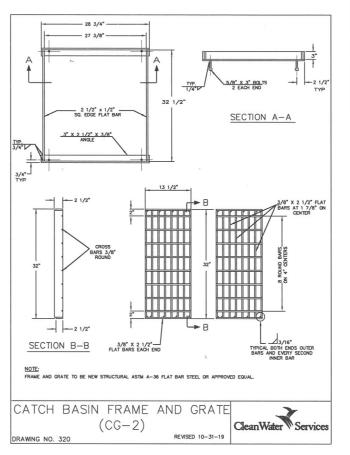
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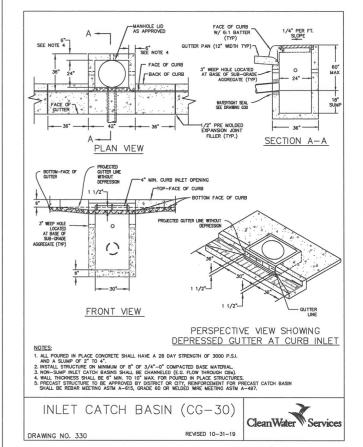
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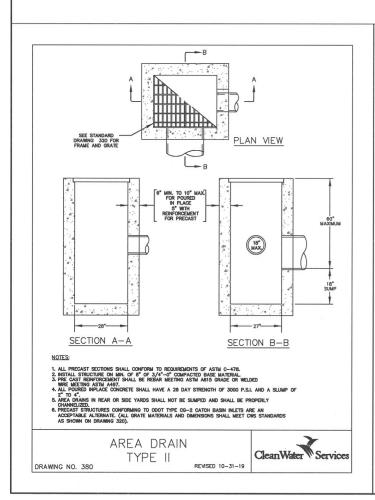
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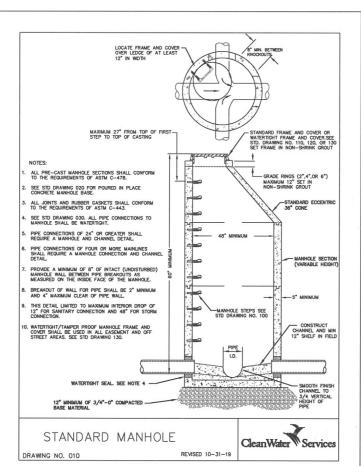


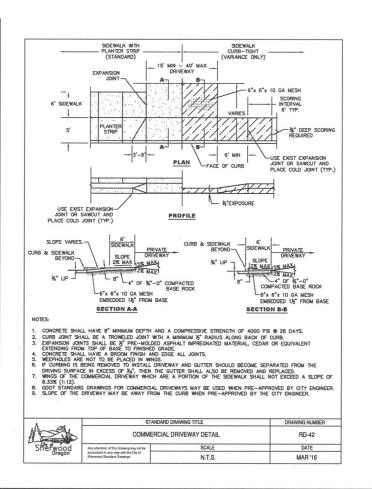


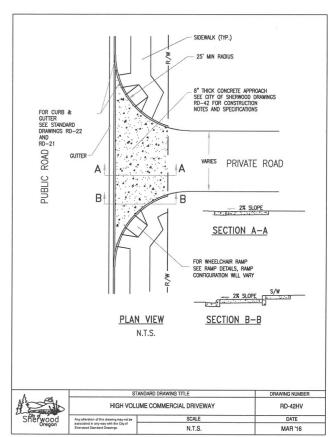


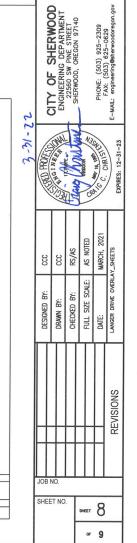












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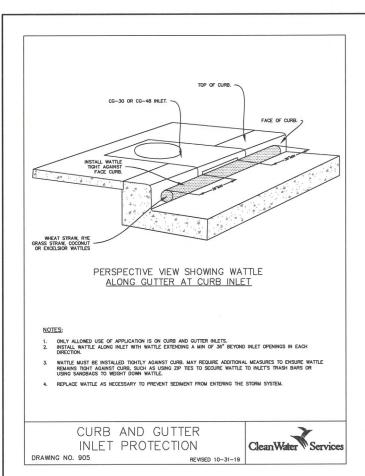
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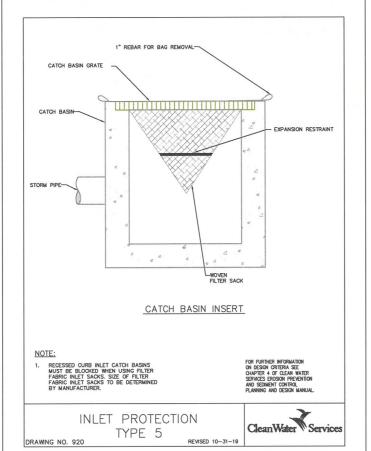
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SECTIONS 29C, TZS, R1W, SHERWOOD, WASHINGTON STATE OF OREGON

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LOCATED THE CITY





GENERAL EROSION CONTROL NOTES:

1. COMPLY WITH ALL APPLICABLE PROVISIONS IN CHAPTER 6 OF THE DESIGN AND CONSTRUCTION STANDARDS (CURRENT): R&O 19-5 AS AMENDED BY R&O 19-22, ADDPTED NOVEMBER 12, 2019.

ALL PUMPING OF SEDIMENT LADEN WATER SHALL BOISCHARGED OVER AN UNDISTURBED, PREFERBLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP LIKE A FILTER BAG.

ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD, OCTOBER 1, - MAY 31.

RE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

SEDIMENT RARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE BERMS CONSTRUCTED OUT OF MUICH, CHIPPINGS, STRAW

WAT IT LES ON CHIER APPROVED MATERIALS.

A. ALL BASE ES HA REASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE
IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
RUN-ON AND RUN-OF SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUSTATIANTAL CONSTRUCTION ACTIVITIES.
RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE
ROUGHENING, AND BAMS TISTABLIZATION.

RADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

IF VEGETATED SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST. VEGETATED CORRIDOR

IF YEED FAILED SEED MIRES ARE SPECIFIED, SEEDING MIGHT FAILER FOULTHER SPECIFIED SPECIFIED COMMITTEE AND APPLICATION SPECIFIED SPECIFIED COMMITTEE SEED MIRES ARE SECURITY OF THE SPECIFIED SPECIFIE

A. DWARF GRASS MIX (MIN. 100 LB./AC.)
1. DWARF FRENNIAL RYEGRASS (BOX, BY WEIGHT)
2. CREEPING RED FESCUE (20% BY WEIGHT)
2. TURF—TYPE FESCUE (60% BY WEIGHT)
3. TURF—TYPE FESCUE (60% BY WEIGHT)

. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK—WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN--OFF VELOCITY. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.

TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING WOOD CHIPS, OR OTHER APPROVED MEASURES.

STOCKPHED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS STOCKPHES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERI

DPOSED OUT OR FILL AREAS SHALL BE STABLIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTRE BLANKETS OR MATS, MID—SLOPE SEDIMENT FERCES OR WATTLES, OR OTHER APPROPRIATE MEASURES, SLOPES EXCEEDING 25% IN REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT IMITED TO, THE WASHES, STREET SWEEPING, AND VACUUMING MAY

. USE BMPS SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS. COVER CATCH BASINS, MANHOLES AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACT COAT ETC. TO PREVENT PRODUCTS FROM ENTERING THE STORM SYSTEM.

ROSON AND SEDIMENT CONTROL BMP IMPLEMENTATION:

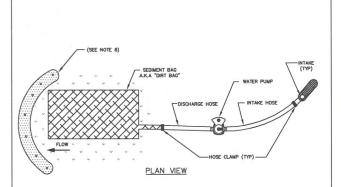
ALL SEDIMENT BARRIERS TO BE INSTALLED AFTER GRAD FINISHED GRADE AS SHOWN ON THESE PLANS.

LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1

THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.

STANDARD EROSION CONTROL NOTES FOR SITES 1 ACRE AND DRAWING NO. 946 GREATER REVISED 6-30-21

CleanWater Service



DRAWING NO. 950

- THE SEDIMENT BAG SHALL BE MANUFACTURED USING A POLYPROPYLENE 8 OZ. NON-WOVEN GEOTEXTILE SEWN INTO A BAG WITH A DOUBLE NEEDLE, USING A HIGH STRENGTH THREAD. EACH STANDARD SEDIMENT BAG MUST HAVE A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE A 4" DISCHARGE HOSE. STRAPS ARE ATTACHED TO SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
- THE SEDIMENT BAG SHALL MEET OR EXCEED OVERALL BAG REMOVAL EFFICIENCY RATE OF 97.55%.
- . WATER BEING DISCHARGED FROM THE SEDIMENT BAG MUST BE FREE OF ALL SEDIMENT PRIOR TO LEAVING THE SITE OR ENTERING INTO THE STORM SYSTEM.
- SEDIMENT BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A RATE LESS THAN 50% OF MANUFACTURER'S DESIGNED FLOW RATE.
- DURING USE, THE SEDIMENT BAG MUST BE MONITORED.
- . DISPOSE OF USED SEDIMENT BAG OFF SITE OR AS APPROVED BY CWS.
- N. WHEN APPROPRIATE, INSTALL DOWNSTREAM SEDIMENT CONTROL MEASURES PER CWS STANDARDS.
- . FOR BEST RESULTS, PLACE SEDIMENT BAG ON FLAT SURFACE.
- O. SEDIMENT BAG SHOULD BE PLACED ON EXISTING VEGETATION, ROCK, OR BED OF STRAW. SEDIMENT BAG SHOULD NOT BE PLACED ON BARE GROUND.

SEDIMENT BAG

CleanWater Services REVISED 10-31-19

CITY OF SHERWOOD ENGINEERING DEPARTMENT 22560 SW PINE STREET SHERWOOD, OREGON 97140

DETAILS

CONTROL

EROSION

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