SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

COTTAGE GROVE, OREGON

SHEET INDEX

SITE DATA

PROPERTY DESCRIPTION

LANE COUNTY TAX MAP – 20–03–32–43
TAX LOT – RIGHT–OF WAY

PROJECT LOCATION

R ST. RIGHT–OF WAY, SOUTH OF SWEET LN.
COTTAGE GROVE, OREGON
SITE AREA = 0.93 ACRES

SITE INFORMATION

LIMITS OF DISTURBANCE 0.90 ACRES

OWNER

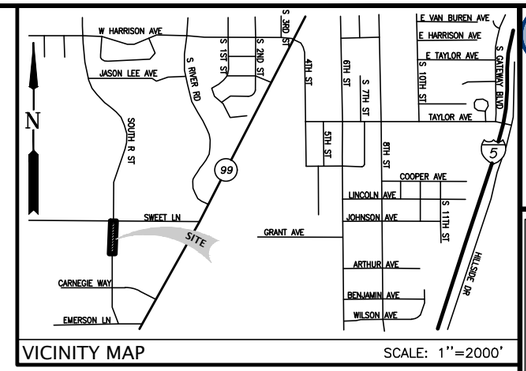
CITY OF COTTAGE GROVE
CONTACT: FAYE STEWART, PUBLIC WORKS & DEVELOPMENT DIRECTOR
400 E. MAIN STREET
COTTAGE GROVE, OR 97424
PHONE: (541) 942–3349
E–MAIL: pwdirctor@cottagegrove.org

CIVIL ENGINEER

BRANCH ENGINEERING, INC.
CONTACT: DAMIEN GILBERT, P.E.
310 5TH STREET
SPRINGFIELD, OR 97477
PHONE: (541) 746–0637
E–MAIL: damieng@branchengineering.com

SURVEYOR

BRANCH ENGINEERING, INC.
CONTACT: DAN NELSON, P.L.S.
310 5TH STREET
SPRINGFIELD, OR 97477
PHONE: (541) 746–0637
E–MAIL: dann@branchengineering.com



VICINITY MAP SCALE: 1"=2000'

SURVEY DATUM

ELEVATIONS ARE BASED ON RTK GPS OBSERVATIONS TAKEN ON JUNE 29, 2022 USING THE OREGON REAL–TIME GEODETIC NETWORK AND GEOID 12A(NAVD88).

NOTE

LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON A COMBINATION OF VISIBLE FACILITIES LOCATED ABOVE GROUND, AS–BUILT DRAWINGS AND UTILITY LOCATE MARKS. NO CERTIFICATION IS MADE TO ACTUAL LOCATION OF UNDERGROUND UTILITIES.

UTILITY REPRESENTATIVES

ELECTRICAL

EPUD COTTAGE GROVE DISTRICT
CONTACT: CHRIS SILVA
33733 SEAVEY LOOP ROAD
EUGENE, OR 97405
PHONE: (541) 746–1583
EMAIL: chriss@epud.org

WATER, SANITARY, STORM SEWER & CITY FIBER OPTICS

CITY OF COTTAGE GROVE
CONTACT: MIKE O'REILLY, UTILITIES SUPERVISOR
400 E. MAIN STREET
COTTAGE GROVE, OR 97424
PHONE: (541) 521–2044
EMAIL: utilities@cottagegrove.org

COMMUNICATION SERVICES

SOUTH LANE COUNTY FIRE & RESCUE
CONTACT: DANNY L. SOLESBEE
233 HARRISON AVE
COTTAGE GROVE, OR 97424
PHONE: (541) 942–4493
EMAIL: dsolesbee@southlanefire.org

COMMUNICATION SERVICES

CENTURY LINK
CONTACT: TREVOR GILBERT
112 E. 10TH AVE.
EUGENE, OR 97401
PHONE: (541) 484–7827
EMAIL: trevor.w.gilbert@lumen.com

CHARTER COMMUNICATIONS
CONTACT: MARK STANFIELD or SHANE QUIMBY
33733 SEAVY LOOP ROAD
ALBANY, OR 97405
PHONE: MARK (541) 201–0097
SHANE (541) 228–7521
EMAIL: mark.stanfield@charter.org
shane.quimby@charter.org

GAS

NORTHWEST NATURAL GAS
CONTACT: MONTE BROWN
790 GOODPASTURE ISLAND RD
EUGENE, OR 97401
PHONE: (541) 954–1255
E–MAIL: monte.brown@nwnatural.com

Digitally signed by Damien Gilbert
Date: 2024.04.05 14:51:14 -07'00'

REGISTERED PROFESSIONAL ENGINEER #62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: June 30, 2025

Branch ENGINEERING Inc
Since 1977
civil • transportation
structural • geotechnical
SURVEYING
310 5th Street
Springfield, OR 97477
p: 541.746.0637
www.BranchEngineering.com

CITY OF COTTAGE GROVE
400 Main Street. Cottage Grove, OR 97424

SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
COVER SHEET

DRAWN BY: ARS
CHECKED BY: DG
DATE: 03/20/2024
Sheet No. C0.0
JOB No. 22-001A

LEGEND

EXISTING		PROPOSED	
	SITE PROPERTY LINE		CURB
	CURB	650	PROPOSED CONTOUR
	EDGE OF AC PAVING	WW WW WW	WASTEWATER PIPE
	FENCE		CLEANOUT
(E)W (E)W (E)W	WATER LINE	WW	WASTEWATER MANHOLE
(E)WW (E)WW	WASEWATER SEWER		CONCRETE INLET MANHOLE WITH BEEHIVE GRATE
(E)SD (E)SD	STORM WATER	SD	STORM MANHOLE
(E)OHW (E)OHW	OVERHEAD WIRES	SD SD SD	STORM PIPE
(E)E (E)E (E)E	ELECTRIC LINE		STORMWATER PLANTER
(E)G (E)G (E)G	GAS LINE	W W	WATER LINE
650	EXISTING CONTOURS		CONCRETE
	WATER VALVE		
	WATER HYDRANT		
S	SIGNAL BOXES		
T	TELEPHONE RISER		
TEL VLT	COMMUNICATIONS VAULT		
	SIGN		
WW	WASTEWATER MANHOLE		
SD	STORMWATER MANHOLE		
	CATCH BASIN		
	POWER POLE		
	STREET LIGHT		
MAIL	MAILBOX		
	ELECTRIC TRANSFORMER		
	CONCRETE		

ABBREVIATIONS

TC	TOP OF CURB	HORZ.	HORIZONTAL
GL	GUTTER LINE	VERT.	VERTICAL
C	CONCRETE	ODOT	OREGON DEPARTMENT OF TRANSPORTATION
AC	ASPHALT CONCRETE	PC	POINT OF CURVATURE
BW	BACK OF WALK	PT	POINT OF TANGENCY
HMAC	HOT MIX ASPHALT	PVI	POINT OF VERTICAL INTERSECTION
MAX.	MAXIMUM	LVC	LENGTH OF VERTICAL INTERSECTION
MIN.	MINIMUM	BVCS	BEGIN VERTICAL CURVE STATION
PSI	POUNDS PER SQUARE INCH	EVCS	END VERTICAL CURVE STATION
STA.	STATION	BVCE	BEGIN VERTICAL CURVE ELEVATION
HWY.	HIGHWAY	EVCE	END VERTICAL CURVE ELEVATION
STD.	STANDARD	PCC	POINT OF COMPOUND CURVE
DWG	DRAWING	PRC	POINT OF REVERSE CURVE
W/L	WATERLINE	CL	CENTERLINE
EX.	EXISTING	L	LEFT
PROP.	PROPOSED	R	RIGHT
SAN	SANITARY	WW	WASTEWATER
LAT	LATERAL	SS	SANITARY SEWER
IE	INVERT ELEVATION	SD	STORM DRAIN
ELEV.	ELEVATION	STM	STORM
FG	FINISHED GRADE	MH	MANHOLE
EG	EXISTING GRADE	CB	CATCH BASIN
		DCVA	DOUBLE CHECK VALVE ASSEMBLY

REQUIRED TESTING AND FREQUENCY TABLE

	PARTY RESPONSIBLE FOR PAYMENT		
	CONTRACTOR		OTHERS (see note 1)
STREETS, PARKING LOTS, PADS, FILLS, ETC			
ASPHALT 1 TEST/6,000 S.F./LIFT (4 MIN.)	X	SEE NOTE 2	
PIPED UTILITIES, ALL			
TRENCH BACKFILL 1 TEST/200 FOOT TRENCH/LIFT (4 MIN.)	X	SEE NOTE 2	
TRENCH AC RESTORATION 1 TEST/300 FOOT OF TRENCH (4 MIN.)	X	SEE NOTE 2	
WATER			
PRESSURE TEST (TO BE WITNESSED BY OWNER'S REPRESENTATIVE OR APPROVING AGENCY)	X	SEE NOTE 4	
BACTERIAL WATER TEST PER OREGON HEALTH DIVISION	X	SEE NOTE 2	
CHLORINE RESIDUAL TEST PER CITY REQUIREMENTS	X	SEE NOTE 2	
SANITARY SEWER (GRAVITY)			
PIPE –AIR OR HYDROSTATIC PER ODOT REQUIREMENTS. –DEFLECTION TESTING PER ODOT REQUIREMENTS. –VIDEO INSPECTION PER ODOT REQUIREMENTS.	X	SEE NOTE 2	
MANHOLES VACUUM TESTING PER ODOT REQUIREMENTS	X	SEE NOTE 2	
CONCRETE			
SLUMP, AIR & CYLINDERS FOR ALL STRUCTURES CURBS, SIDEWALKS AND PCC PAVEMENTS. UNLESS OTHERWISE SPECIFIED, ONE SET OF CYLINDERS PER 100 CUBIC YARDS (OR PORTION THEREOF) OF CONCRETE POURED PER DAY. SLUMP & AIR TESTS REQUIRED ON SAME LOAD AS CYLINDERS.	X	SEE NOTE 2	

NOTE 1: "OTHERS" REFERS TO CITY'S AUTHORIZED REPRESENTATIVE OF APPROVING AGENCY AS APPLICABLE. CONTRACTOR RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTING MUST BE COMPLETED PRIOR TO PERFORMING SUBSEQUENT WORK.

NOTE 2: TESTING MUST BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY OR COMPANY.

NOTE 3: IN ADDITION TO IN–PLACE DENSITY TESTING, THE SUBGRADE AND BASE ROCK SHALL BE PROOF ROLLED WITH A LOADED 10 YARD DUMP TRUCK PROVIDED BY THE CONTRACTOR. BASEROCK PROOFROLL SHALL TAKE PLACE IMMEDIATELY PRIOR TO (WITHIN 24 HOURS OF) PAVING, AND SHALL BE WITNESSED BY THE CITY'S AUTHORIZED REPRESENTATIVE OR APPROVING AGENCY. LOCATION AND PATTERN OF PROOFROLL TO BE DIRECTED BY SAID CITY'S REPRESENTATIVE OR APPROVING AGENCY.

NOTE 4: TO BE WITNESSED BY THE CITY'S REPRESENTATIVE OR APPROVING AGENCY. THE CONTRACTOR SHALL PERFORM PRE–TESTS PRIOR TO SCHEDULING WATERLINE OR SANITARY SEWER PRESSURE TESTS, OR PIPELINE MANDREL TEST.

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: *June 30, 2025*

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SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
LEGEND

DRAWN BY: ARS

CHECKED BY: KP

DATE: 03/20/2024

Sheet No. **C0.1**

JOB No. 22-001A

GENERAL CONSTRUCTION NOTES

1. ALL MATERIALS AND WORKMANSHIP OF ITEMS TO BE MAINTAINED BY THE CITY OF COTTAGE GROVE WITHIN PUBLIC EASEMENTS OR STREET RIGHT-OF-WAYS SHALL MEET CURRENT CITY OF COTTAGE GROVE PUBLIC WORKS SPECIFICATIONS. ALL MATERIALS AND WORKMANSHIP OF IMPROVEMENTS THAT WILL BE PRIVATELY OWNED AND MAINTAINED WILL BE BOUND BY THE CURRENT REQUIREMENTS OF THE STATE OF OREGON AMENDMENTS TO THE UNIFORM PLUMBING CODE CURRENT EDITION, OR CITY OF COTTAGE GROVE BUILDING DIVISION REQUIREMENTS.
2. ALL WORK SHALL MEET THE FOLLOWING SPECIFICATIONS CURRENT "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE CURRENT "OREGON STANDARD DRAWINGS" AND THE SPECIALS SET FORTH IN THE PROJECT MANUAL FOR THIS PROJECT.
3. CONTRACTOR SHALL PROCURE, AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF COTTAGE GROVE.
4. 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 800-332-2334 or 811).
5. CONTRACTOR TO NOTIFY CITY AND ALL UTILITY COMPANIES A MINIMUM OF 48 BUSINESS HOURS (2 BUSINESS DAYS) PRIOR TO START OF CONSTRUCTION, AND COMPLY WITH ALL OTHER NOTIFICATION REQUIREMENTS OF AGENCIES WITH JURISDICTION OVER THE WORK.
6. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION. WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION, THE CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT.
7. ALL MATERIALS AND WORKMANSHIP FOR FACILITIES IN STREET RIGHT-OF-WAY OR EASEMENTS SHALL CONFORM TO APPROVING AGENCIES' CONSTRUCTION SPECIFICATIONS WHEREIN EACH HAS JURISDICTION, INCLUDING BUT NOT LIMITED TO THE CITY, COUNTY, OREGON HEALTH DIVISION (OHD) AND THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ).
8. UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR, CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE BETWEEN 7:00 A.M. AND 6:00 P.M., MONDAY THROUGH FRIDAY.
9. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
10. ANY INSPECTION BY THE CITY OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES, AND AGENCY REQUIREMENTS.
11. CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ALL APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE CITY OR DESIGN ENGINEER'S REPRESENTATIVE UPON REQUEST. FAILURE TO CONFORM TO THIS REQUIREMENT MAY RESULT IN DELAY IN PAYMENT AND/OR FINAL ACCEPTANCE OF THE PROJECT.
12. UPON COMPLETION OF CONSTRUCTION OF ALL NEW FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE ENGINEER. ALL INFORMATION SHOWN ON THE CONTRACTOR'S FIELD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
13. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS NEEDED DURING CONSTRUCTION WITH A MINIMUM EROSION CONTROL OF INLET PROTECTION. THE CONTRACTOR SHALL CONSULT WITH THE CITY FOR ADDITIONAL EROSION CONTROL MEASURES IN EXTREMELY WET WEATHER CONDITIONS.
14. THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A REGISTERED CIVIL ENGINEER AND/OR LAND SURVEYOR LICENSED IN THE STATE OF OREGON TO ESTABLISH CONSTRUCTION CONTROL AND PERFORM INITIAL CONSTRUCTION SURVEYS TO ESTABLISH THE LINES AND GRADES OF IMPROVEMENTS AS INDICATED ON THE DRAWINGS. STAKING FOR BUILDINGS, STRUCTURES, CURBS, GRAVITY DRAINAGE PIPES/STRUCTURES AND OTHER CRITICAL IMPROVEMENTS SHALL BE COMPLETED USING EQUIPMENT ACCURATE TO 0.04 FEET HORIZONTALLY AND 0.02 FEET VERTICALLY, OR BETTER. USE OF GPS EQUIPMENT FOR CONSTRUCTION STAKING OF THESE IMPROVEMENTS IS PROHIBITED. THE REGISTERED PROFESSIONAL SURVEYOR SHALL PROVIDE THE DESIGN ENGINEER WITH COPIES OF ALL GRADE SHEETS FOR CONSTRUCTION STAKING PERFORMED FOR THE PROJECT.
15. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, TRAFFIC CONES PER CITY OF COTTAGE GROVE REQUIREMENTS IN ACCORDANCE WITH THE MUTCD (INCLUDING OREGON AMENDMENTS). ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY. PRIOR TO ANY WORK IN THE EXISTING PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL SUBMIT FINAL TRAFFIC CONTROL PLAN TO THE CITY FOR REVIEW AND ISSUANCE OF A LANE CLOSURE OR WORK IN RIGHT-OF-WAY PERMIT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH SUBSEQUENT WORK WHICH COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ALL PROBLEMS ARISING FROM UNINSPECTED WORK.
17. UNLESS OTHERWISE SPECIFIED, THE ATTACHED "REQUIRED TESTING AND FREQUENCY" TABLE OUTLINES THE MINIMUM TESTING SCHEDULE FOR THE PROJECT. THIS TESTING SCHEDULE IS NOT COMPLETE, AND DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING ALL NECESSARY INSPECTIONS OR OBSERVATIONS FOR ALL WORK PERFORMED, REGARDLESS OF WHO IS RESPONSIBLE FOR PAYMENT. COST FOR RETESTING SHALL BE BORNE BY THE CONTRACTOR.
18. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING SURVEY MONUMENTS OF RECORD (INCLUDING BUT NOT LIMITED TO PROPERTY AND STREET MONUMENTS) PRIOR TO CONSTRUCTION. IF ANY SURVEY MONUMENTS ARE REMOVED, DISTURBED OR DESTROYED DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF OREGON TO REFERENCE AND REPLACE ALL SUCH MONUMENTS PRIOR TO FINAL PAYMENT. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY PER ORS 209.150.
20. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. ALL UTILITY CROSSINGS MARKED OR SHOWN ON THE DRAWINGS SHALL BE POTHOLED USING HAND TOOLS OR OTHER NON BORING METHODS. PRIOR TO EXCAVATING, CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE OR ALIGNMENT MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE OR ALIGNMENT MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, AND THE DESIGN ENGINEER OR THE OWNER'S REPRESENTATIVE SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO CONSTRUCTION.
21. ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AND THE DESIGN ENGINEER.
22. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL PLUG THE REMAINING EXPOSED ENDS OF ABANDONED UTILITIES.
23. CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, AND DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
25. FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH, FREE DRAINING SURFACE.
26. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENT BOXES, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE. VERIFY THAT ALL VALVE BOXES AND RISERS ARE CLEAN AND CENTERED OVER THE OPERATING NUT.
27. CONTRACTOR SHALL SEED AND MULCH (UNIFORMLY BY HAND OR HYDROSEED) EXPOSED SLOPES AND DISTURBED AREAS WHICH ARE NOT SCHEDULED TO BE LANDSCAPED, INCLUDING TRENCH RESTORATION AREAS. IF THE CONTRACTOR FAILS TO APPLY SEED AND MULCH IN A TIMELY MANNER DURING PERIODS FAVORABLE FOR GERMINATION, OR IF THE SEEDED AREAS FAIL TO GERMINATE, THE OWNER REPRESENTATIVE MAY (AT HIS DISCRETION) REQUIRE THE CONTRACTOR TO INSTALL SOD TO COVER SUCH DISTURBED AREAS.
28. ALL TAPPING OF EXISTING MUNICIPAL SANITARY SEWER, STORM DRAIN MAINS, AND MANHOLES MUST BE DONE BY CONTRACTOR FORCES.
29. THE CONTRACTOR SHALL HAVE APPROPRIATE EQUIPMENT ON SITE TO PRODUCE A FIRM, SMOOTH, UNDISTURBED SUBGRADE AT THE TRENCH BOTTOM, TRUE TO GRADE. THE BOTTOM OF THE TRENCH EXCAVATION SHALL BE SMOOTH, FREE OF LOOSE MATERIALS OR TOOTH GROOVES FOR THE ENTIRE WIDTH OF THE TRENCH PRIOR TO PLACING THE GRANULAR BEDDING MATERIAL.
30. ALL PIPES SHALL BE BEDDED WITH MINIMUM 6-INCHES OF 3/4"-0 CRUSHED ROCK BEDDING AND BACKFILLED WITH COMPACTED 3/4"-0 CRUSHED ROCK IN THE PIPE ZONE (CRUSHED ROCK SHALL EXTEND A MINIMUM OF 12-INCHES OVER THE TOP OF THE PIPE IN ALL CASES). CRUSHED ROCK OR CDF TRENCH BACKFILL SHALL BE USED UNDER ALL IMPROVED AREAS, INCLUDING PAVEMENT, SIDEWALKS, FOUNDATION SLABS, BUILDINGS, ETC. IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS. GRANULAR TRENCH BACKFILL SHALL BE COMPACTED TO 92% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR).
31. GRANULAR TRENCH BEDDING AND BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF OSSC (ODOT/APWA) 02630.10 (DENSE GRADED BASE AGGREGATE), 3/4"-0. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, COMPACT GRANULAR BACKFILL TO 92% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR).
32. ALL PIPED UTILITIES ABANDONED IN PLACE SHALL HAVE ALL OPENINGS CLOSED WITH CONCRETE PLUGS WITH A MINIMUM LENGTH EQUAL TO 2 TIMES THE DIAMETER OF THE ABANDONED PIPE.
33. THE END OF ALL UTILITY SERVICE LINES SHALL BE MARKED WITH A 2-X-4 PAINTED WHITE AND WIRED TO PIPE STUB. THE PIPE DEPTH SHALL BE WRITTEN ON THE POST IN 2" BLOCK LETTERS.
34. ALL NON-METALLIC WATER, SANITARY AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 12 GAUGE, SOLID STRAND COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE USING BLUE WIRE FOR WATER AND GREEN WIRE FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, CATCH BASINS, MANHOLES AND LATERAL CLEANOUT BOXES. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE.
35. NO TRENCHES IN SIDEWALKS, ROADS, OR DRIVEWAYS SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORKDAY AND NORMAL TRAFFIC AND PEDESTRIAN FLOWS RESTORED.
36. CITY FORCES TO OPERATE ALL VALVES, INCLUDING FIRE HYDRANTS, ON EXISTING PUBLIC MAINS.
37. ALL SANITARY SEWER FORCE MAINS SHALL BE D3034 PVC. ALL FITTINGS 4-INCHES THROUGH 24-INCHES IN DIAMETER SHALL BE DUCTILE IRON FITTINGS IN CONFORMANCE WITH AWWA C-153 OR AWWA C-110. THE MINIMUM WORKING PRESSURE FOR ALL MJ CAST IRON OR DUCTILE IRON FITTINGS 4-INCHES THROUGH 24-INCH IN DIAMETER SHALL BE 350 PSI FOR MJ FITTINGS AND 250 PSI FOR FLANGED FITTINGS.
38. THRUST RESTRAINT SHALL BE PROVIDED ON ALL BENDS, TEES AND OTHER DIRECTION CHANGES PER LOCAL JURISDICTION REQUIREMENTS AND AS SPECIFIED OR SHOWN ON THE DRAWINGS. UNLESS OTHERWISE SHOWN OR APPROVED BY THE ENGINEER.
39. CONTRACTOR SHALL REIMBURSE CITY FOR COSTS REQUIRED TO FLUSH, TEST AND DISINFECT WATERLINES PER PUBLIC AGENCY REQUIREMENTS.
40. WHERE SANITARY SEWER LINES CROSS ABOVE OR WITHIN 18-INCHES VERTICAL SEPARATION BELOW A WATERLINE, SEWER MAINS AND/OR SERVICE LATERALS SHALL BE REPLACED WITH A 18-FOOT LENGTH OF CLASS 50 DUCTILE IRON OR C-900 PVC PIPE (DR 18) CENTERED AT THE CROSSING IN ACCORDANCE WITH OAR 333 AND LOCAL JURISDICTION REQUIREMENTS. CONNECT TO EXISTING SEWER LINES WITH APPROVED RUBBER COUPLINGS. EXAMPLE: FOR AN 8-INCH WATERLINE WITH 36- INCHES COVER, 4-INCH SERVICE LATERAL INVERTS WITHIN 5.67-FEET (68-INCHES) OF FINISH GRADE MUST BE DI OR C-900 PVC AT THE CROSSING. CENTER ONE FULL LENGTH OF WATERLINE PIPE AT POINT OF CROSSING THE SEWER LINE OR SEWER LATERAL.
41. CONTRACTOR SHALL REIMBURSE CITY FOR COSTS REQUIRED TO TEST SANITARY SEWER PIPE AND APPURTENANCES FOR LEAKAGE IN ACCORDANCE WITH TESTING SCHEDULE HEREIN OR THE CITY'S CONSTRUCTION STANDARDS, WHICHEVER ARE MORE STRINGENT. SANITARY SEWER PIPE AND APPURTENANCES SHALL BE TESTED FOR LEAKAGE.
42. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH FRANCHISE UTILITIES FOR REMOVAL OR RELOCATION OF POWER POLES, VAULTS, PEDESTALS, MANHOLES, ETC. TO AVOID CONFLICT WITH CITY UTILITY STRUCTURES, FIRE HYDRANTS, METERS, SEWER OR STORM LATERALS, ETC.
43. ANY ABRUPT EDGE GREATER THAN 2 INCHES IN DEPTH, CLOSER THAN 4 FEET FROM AN ACTIVE TRAFFIC LANE, AND HAVING A DURATION OF EXPOSURE LONGER THAN 72 HOURS SHALL BE REQUIRED TO FOLLOW THE "TYPICAL ABRUPT EDGE SIGNING DETAIL" ON ODOT STANDARD DRAWING TM800.
44. WHEN CONSTRUCTION ACTIVITIES BLOCK OR INTERFERE WITH THE NORMAL PEDESTRIAN ROUTING, PROVIDE SAFE PASSAGE FOR PEDESTRIANS THROUGH THE CONSTRUCTION AREA UTILIZING ODOT STANDARD DRAWING TM844 AND THE REQUIREMENTS OF THE CURRENT EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (BLUE BOOK). REFER TO SUBSECTION 00220.02.
45. SAWCUT SIDEWALK AT NEWEST CONTROL JOINT IF LOCATED WITHIN 2 FEET OF SAWCUT LINE SHOWN.

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OREGON
JULY 13, 2004
DAMIEN GILBERT

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SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
CONSTRUCTION NOTES

DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

Sheet No. **C0.2**

JOB No. 22-001A

CONSTRUCTION NOTES:

(100) SAWCUT EXISTING AC PAVEMENT. PROTECT SAWCUT EDGE FROM DAMAGE.

(101) REMOVE EXISTING AC PAVEMENT. REMOVE EXISTING BASE ROCK AND SUBGRADE AS REQUIRED FOR NEW PAVEMENT SECTION FINISHED GRADE. SEE SHEET SHEET C4.0 PER TYPICAL STREET SECTIONS.

(102) PROTECT EXISTING AC PAVEMENT.

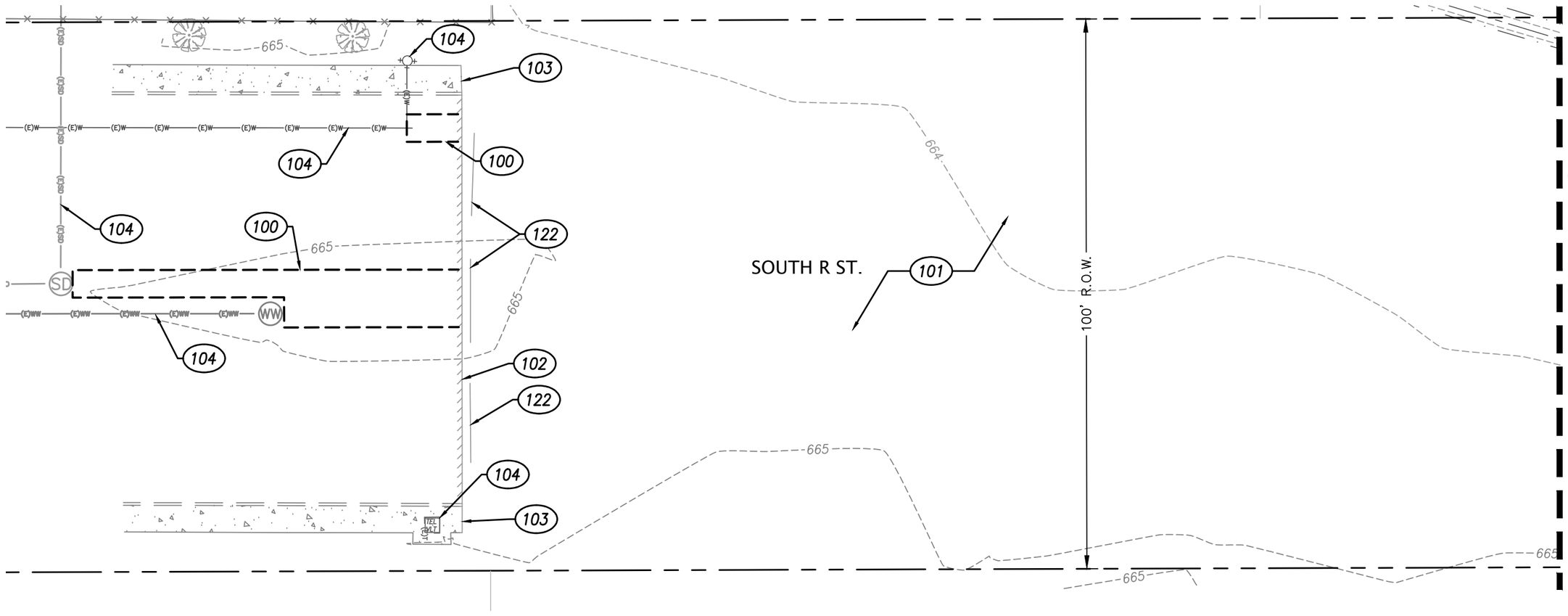
(103) PROTECT EXISTING CONCRETE SIDEWALK, CURB AND GUTTER.

(104) PROTECT EXISTING UTILITIES.

(122) REMOVE EXISTING BARRICADES. SALVAGE AND RETURN TO CITY.

GRAPHIC SCALE

0 20 40



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SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
EXISTING CONDITIONS

DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

Sheet No. **C1.0**

JOB No. 22-001A

CONSTRUCTION NOTES:

(100) SAWCUT EXISTING AC PAVEMENT. PROTECT SAWCUT EDGE FROM DAMAGE.

(101) REMOVE EXISTING AC PAVEMENT. REMOVE EXISTING BASE ROCK AND SUBGRADE AS REQUIRED FOR NEW PAVEMENT SECTION FINISHED GRADE. SEE SHEET SHEET C4.0 FOR TYPICAL STREET SECTIONS.

(102) PROTECT EXISTING AC PAVEMENT.

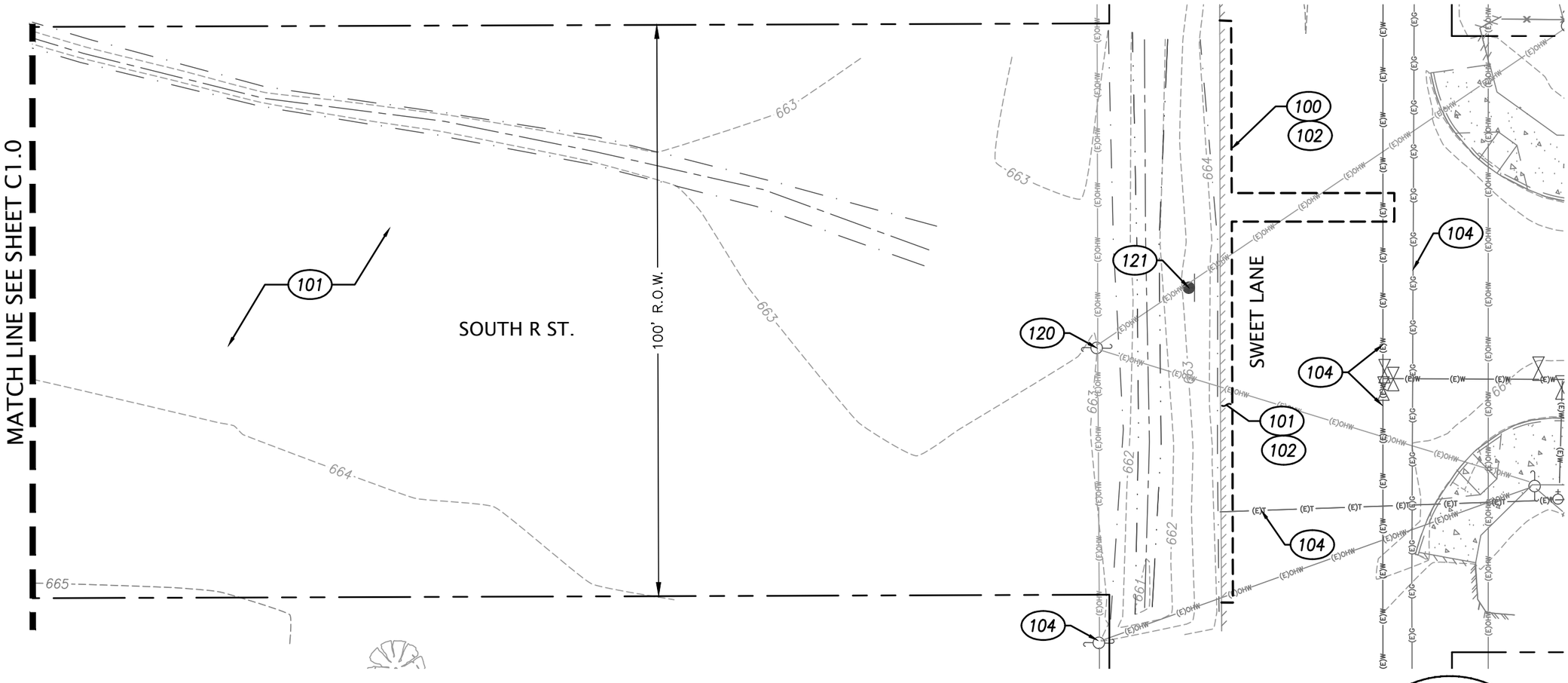
(104) PROTECT EXISTING UTILITIES.

(120) REMOVE AND RELOCATE EXISTING POWER POLE (BY EPUD).

(121) REMOVE EXISTING SIGN, SALVAGE STREET NAME SIGNS FOR RELOCATION AS SHOWN ON SHEET T.0.

GRAPHIC SCALE

0 20 40



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SOUTH R STREET
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SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
EXISTING CONDITIONS

DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

Sheet No. C1.1

JOB No. 22-001A

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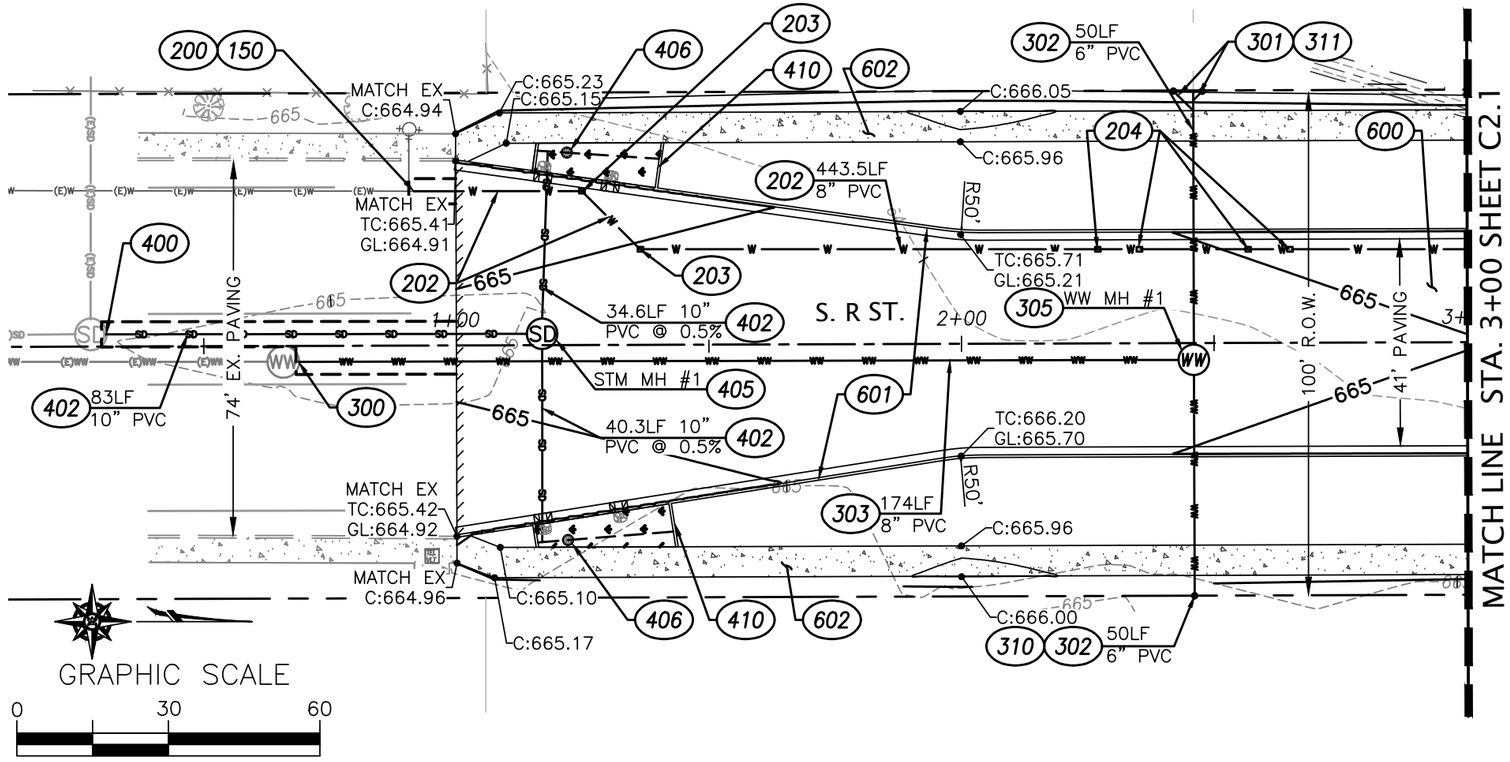

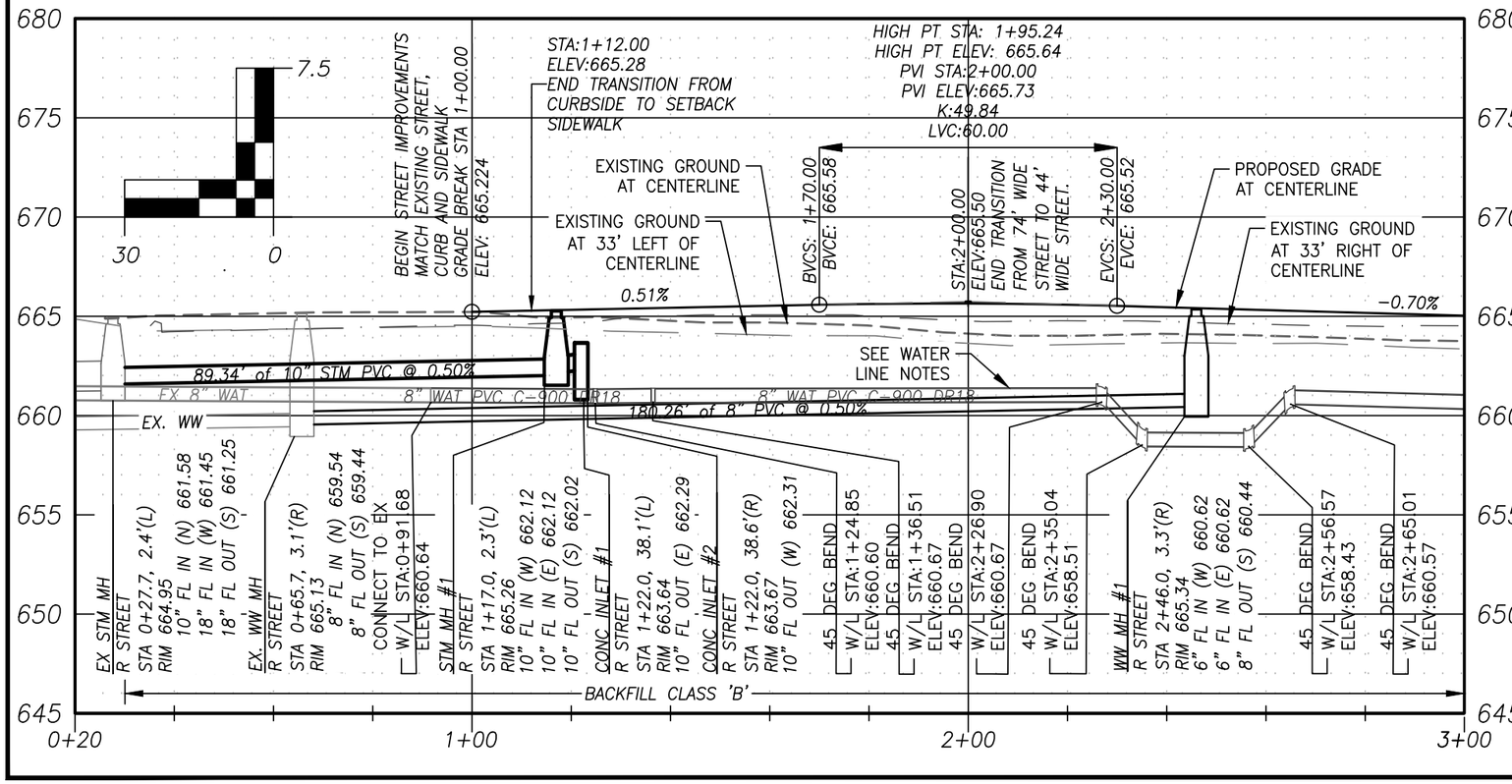

CONSTRUCTION NOTES:

(150) POTHOLE EXISTING UTILITY LINE VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES.

(200) CITY OF COTTAGE GROVE PUBLIC WORKS TO MAKE FINAL CONNECTION TO EXISTING 8" WATER LINE.

(202) FURNISH AND INSTALL 8" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER CITY STD DWG RD300, SHEET C4.6. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. SEE WATER LINE NOTE BELOW.

(203) FURNISH AND INSTALL 45° HORIZONTAL BEND PER CITY STD DWG 402, SHEET C4.6. PROVIDE MECHANICAL JOINT THRUST RESTRAINT WITHIN 30 FEET OF BEND.

(204) FURNISH AND INSTALL 45° VERTICAL BEND PER CITY STD DWG 402, SHEET C4.6. PROVIDE MECHANICAL JOINT THRUST RESTRAINT WITHIN 30 FEET OF BEND.

(300) CONNECT 8" SANITARY PIPE TO EXISTING MANHOLE BY CORE DRILLING AND INSTALLING RUBBER BOOT PER MANUFACTURER'S RECOMMENDATIONS AND ODOT STD DWG RD339, SHEET 4.5.

(301) FURNISH AND INSTALL 4" SANITARY SEWER PIPE (PVC D3034) WITH CLASS B BACKFILL PER CITY TYPICAL DETAIL RD300A & ODOT STD DWG RD300, SHEET C4.6.

(302) FURNISH AND INSTALL 6" SANITARY SEWER PIPE (PVC D3034) WITH CLASS B BACKFILL PER CITY TYPICAL DETAIL RD300A & ODOT STD DWG RD300, SHEET C4.6.

(303) FURNISH AND INSTALL 8" SANITARY SEWER PIPE (PVC D3034) WITH CLASS B BACKFILL PER CITY TYPICAL DETAIL RD300A & ODOT STD DWG RD300, SHEET C4.6.

(305) CONSTRUCT 48" CONCRETE SANITARY MANHOLE PER CITY STD DWG NO. 303, SHEET C4.5.

(310) CONSTRUCT SINGLE SANITARY SERVICE AND CLEANOUT PER CITY STD DWG NO. 304. SHEET C4.5.

(311) CONSTRUCT DOUBLE SANITARY SERVICE AND CLEANOUT PER CITY STD DWG NO. 304A, SHEET C4.5.

(400) CONNECT 10" STORM PIPE TO EXISTING MANHOLE BY CORE DRILLING AND INSTALLING RUBBER BOOT PER MANUFACTURER'S RECOMMENDATIONS AND ODOT STD DWG RD339, SHEET 4.5.

(402) FURNISH AND INSTALL 10" STORM SEWER PIPE (PVC D3034) WITH CLASS B BACKFILL PER CITY TYPICAL DETAIL RD300A & ODOT STD DWG RD300, SHEET C4.6.

(405) FURNISH AND INSTALL 48" CONCRETE STORM MANHOLE PER CITY STD DWG RD303, SHEET C4.5.

(406) FURNISH AND INSTALL 24" CONCRETE INLET WITH BEEHIVE GRATE PER DETAIL 3, SHEET C4.1.

(410) CONSTRUCT PLANTER WITH CURB CUT SPILLWAYS PER GRADING DETAILS ON SHEET C3.2, DETAIL 2, SHEET C4.1, DETAIL 1, SHEET C4.2 & DETAIL 1, SHEET C4.3.

(600) CONSTRUCT AC PAVING OVER CRUSHED ROCK PER SECTION DETAIL, SHEET C4.0.

(601) CONSTRUCT STANDARD CURB AND GUTTER PER CITY STD DWG 213, SHEET C4.4 AND SECTION DETAIL, SHEET C4.0.

(602) CONSTRUCT 6' WIDE CONCRETE SIDEWALK OVER CRUSHED ROCK PER CITY STD DWG 216, SHEET C4.4 AND SECTION DETAIL, SHEET C4.0.

WATER LINE NOTES:

NEW WATER LINE SHALL CROSS UNDER NEW STORM AND WASTEWATER PIPES. MAINTAIN 30" COVER OVER WATER LINE AND 18" MIN. VERTICAL CLEARANCE BETWEEN PIPES AT WASTEWATER CROSSING AND WITHIN 10' HORIZONTALLY.

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SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
UTILITIES PLAN AND PROF. STA. 0+20 TO 3+00

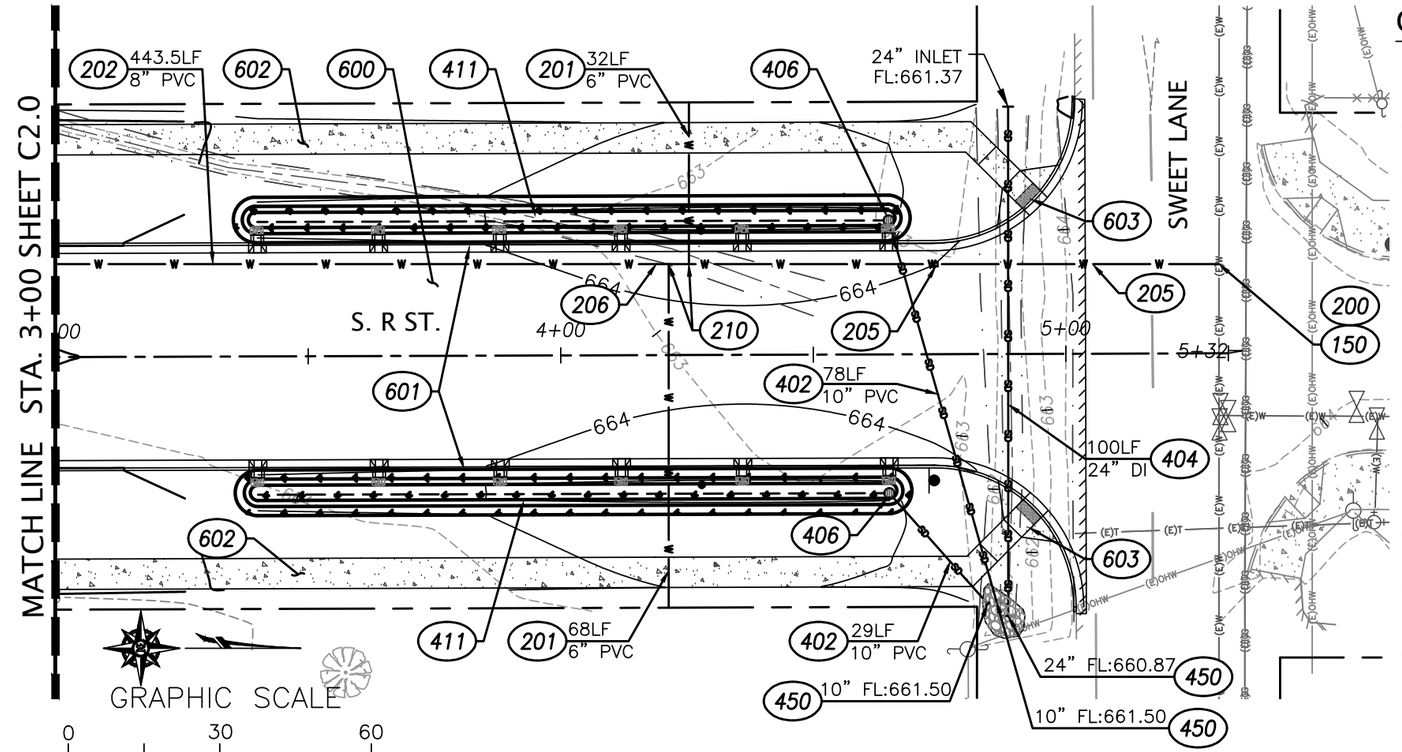
DRAWN BY: ARS

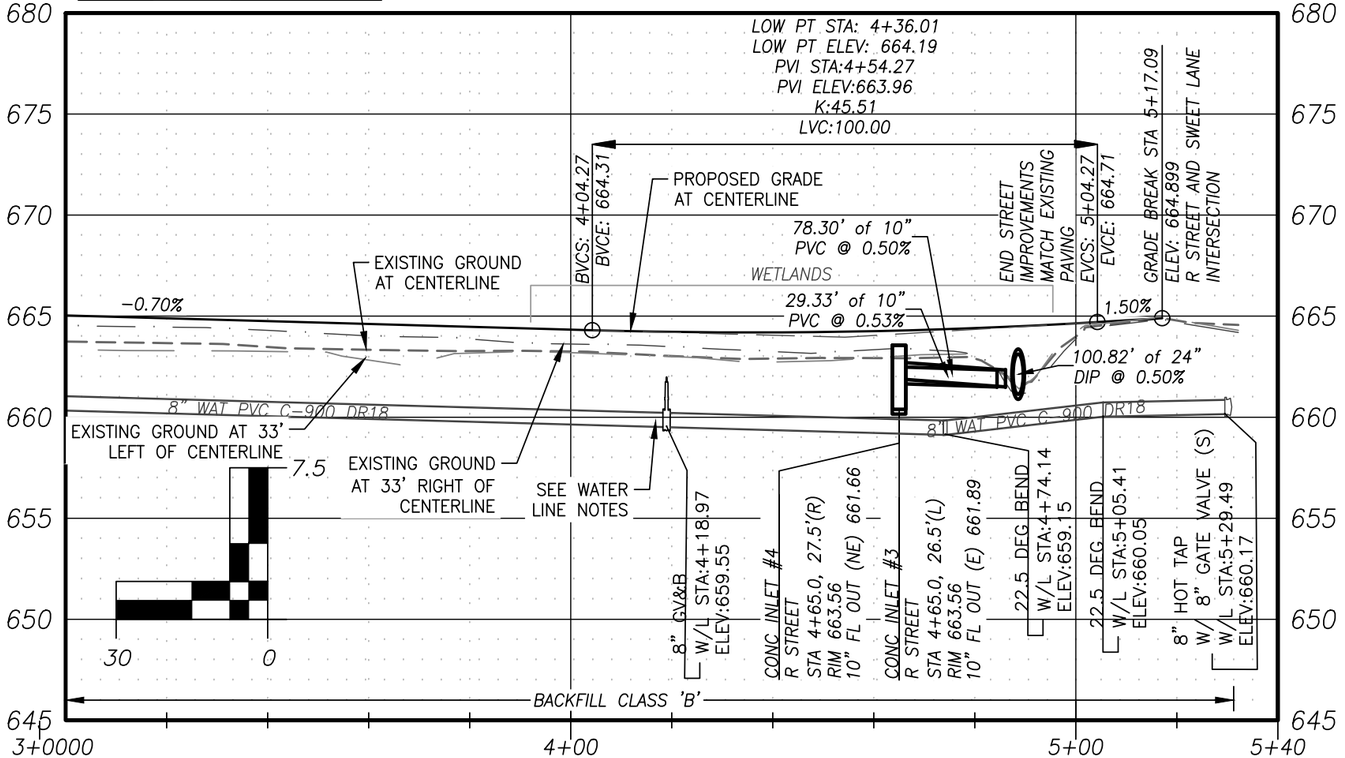
CHECKED BY: DG

DATE: 03/20/2024

Sheet No. **C2.0**

JOB No. 22-001A





CONSTRUCTION NOTES:

(150) POTHOLE EXISTING UTILITY LINE VERIFY LOCATION, DEPTH, MATERIAL AND SIZE. NOTIFY ENGINEER OF ANY DISCREPANCIES.

(200) CITY OF COTTAGE GROVE PUBLIC WORKS TO MAKE FINAL CONNECTION TO EXISTING WATER LINE.

(201) FURNISH AND INSTALL 6" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER CITY TYPICAL TRENCH DETAIL RD300A & ODOT STD DWG 300, SHEET C4.6. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. MAINTAIN 30" MINIMUM COVER.

(202) FURNISH AND INSTALL 8" PVC C-900 (DR 18) WATERLINE. WATERLINE TRENCH PER CITY TYPICAL TRENCH DETAIL RD300A & ODOT STD DWG RD300, SHEET C4.6. DEFLECT PIPE AT JOINTS AS REQUIRED TO ACHIEVE ALIGNMENT. PROVIDE MECHANICAL JOINT THRUST RESTRAINT. SEE WATER LINE NOTE BELOW.

(205) FURNISH AND INSTALL 22.5° VERTICAL BEND PER CITY STD DWG 402, SHEET C4.6. PROVIDE MECHANICAL JOINT THRUST RESTRAINT WITHIN 30 FEET OF BEND.

(206) FURNISH AND INSTALL 8" GV&B PER CITY STD DWG 408, SHEET C4.6.

(210) FURNISH AND INSTALL 8"X8"X6" TEE WITH RETAINER GLANDS PER CITY STD DWG 402, SHEET C4.6. THRUST RESTRAINT WITHIN 13 FEET OF THE TEE.

(402) FURNISH AND INSTALL 10" STORM SEWER PIPE (PVC D3034) WITH CLASS B BACKFILL PER CITY TYPICAL TRENCH DETAIL RD300A & ODOT STD DWG RD300, SHEET C4.6.

(404) FURNISH AND INSTALL 24" DUCTILE IRON PIPE CULVERT WITH CLASS E BACKFILL PER CITY TYPICAL TRENCH DETAIL RD300A & ODOT STD DWG RD300, SHEET 4.6.

(406) FURNISH AND INSTALL 24" CONCRETE INLET WITH BEHIVE GRATE PER DETAIL 3, SHEET C4.1.

(411) CONSTRUCT RAIN GARDEN WITH CURB CUT SPILLWAYS PER GRADING DETAILS ON SHEET C3.2, DETAIL 1, SHEET C4.1 & DETAIL 2, SHEET C4.3.

(450) PIPE OUTLET WITH RIP RAP PROTECTION PER CITY STD DWG 310, SHEET C4.7.

(600) CONSTRUCT AC PAVING OVER CRUSHED ROCK PER SECTION DETAIL, SHEET C4.0.

(601) CONSTRUCT STANDARD CURB AND GUTTER PER CITY STD DWG 213, SHEET C4.4 AND SECTION DETAIL, SHEET C4.0.

(602) CONSTRUCT 6' WIDE CONCRETE SIDEWALK OVER CRUSHED ROCK PER CITY STD DWG 216, SHEET C4.4 AND SECTION DETAIL, SHEET C4.0.

(603) CONSTRUCT CURB RETURN AND TRUNCATED DOMES WITH ADA RAMPS PER ODOT STD DWG RD916 OPTION PR-9, SHEET C4.4 AND DETAILS ON SHEETS C3.1 (WEST ADA RAMP) AND C3.2 (EAST ADA RAMP).

WATER LINE NOTES:

NEW WATER LINE SHALL CROSS UNDER NEW STORM AND WASTEWATER PIPES. MAINTAIN 30" COVER OVER WATER LINE AND 18" MIN. VERTICAL CLEARANCE BETWEEN PIPES AT WASTEWATER CROSSING AND WITHIN 10' HORIZONTALLY.

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SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
UTILITIES PLAN & PROF. STA. 3+00 TO 5+40

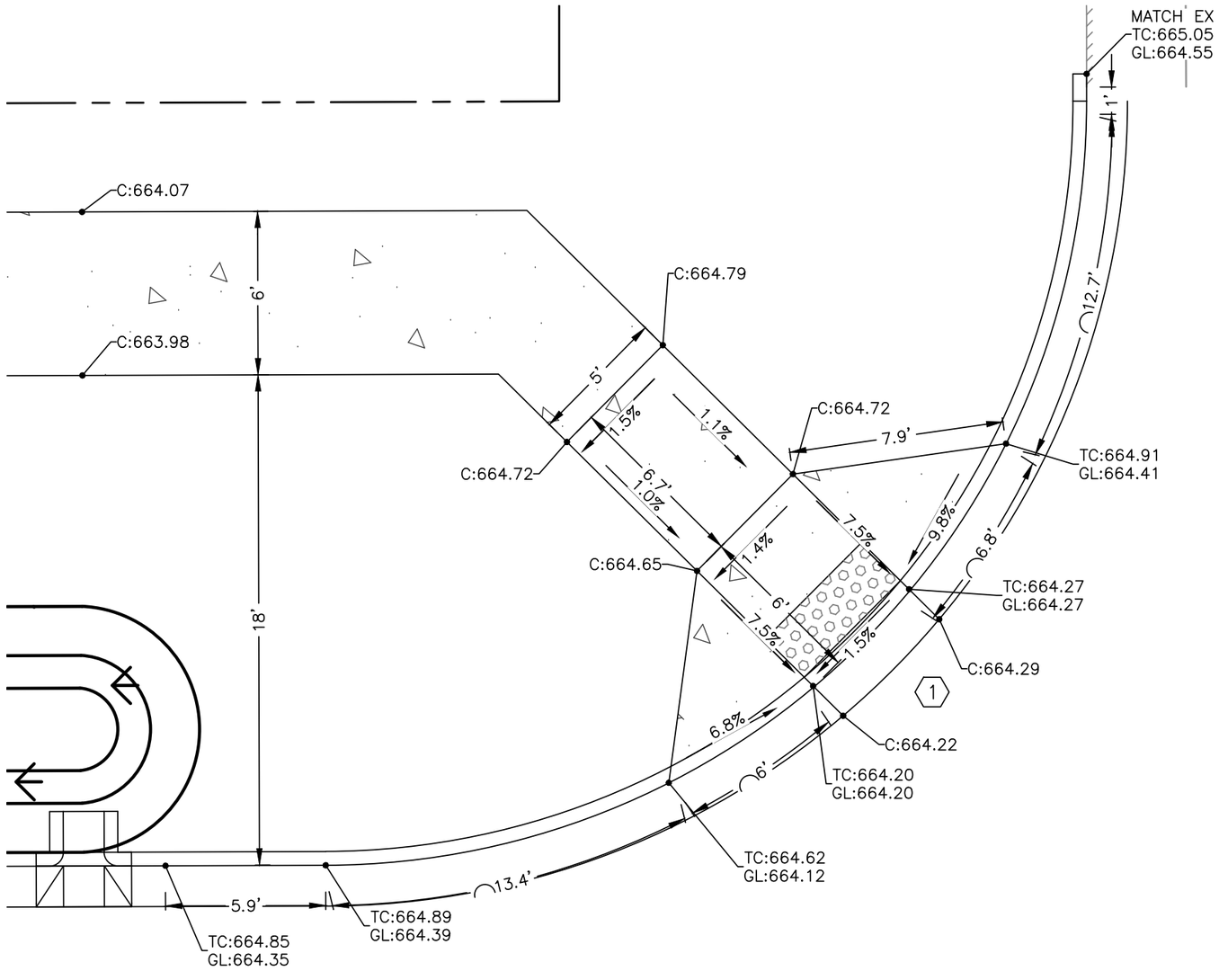
DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

Sheet No. C2.1

JOB No. 22-001A



WEST ADA RAMP

SCALE: 1" = 5

1 CURB RETURN DATA	
Δ	8940'06"
R	28.00'
L	43.82'
P.C.	4+73.88 22.00'LT
P.T.	5+01.88 49.97'LT
CORD LENGTH	
39.48'	
CORD BEARING	
N45I5'02" W	

GRAPHIC SCALE

0 5 10

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RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
GRADING DETAILS - WEST ADA RAMP

DRAWN BY: ARS

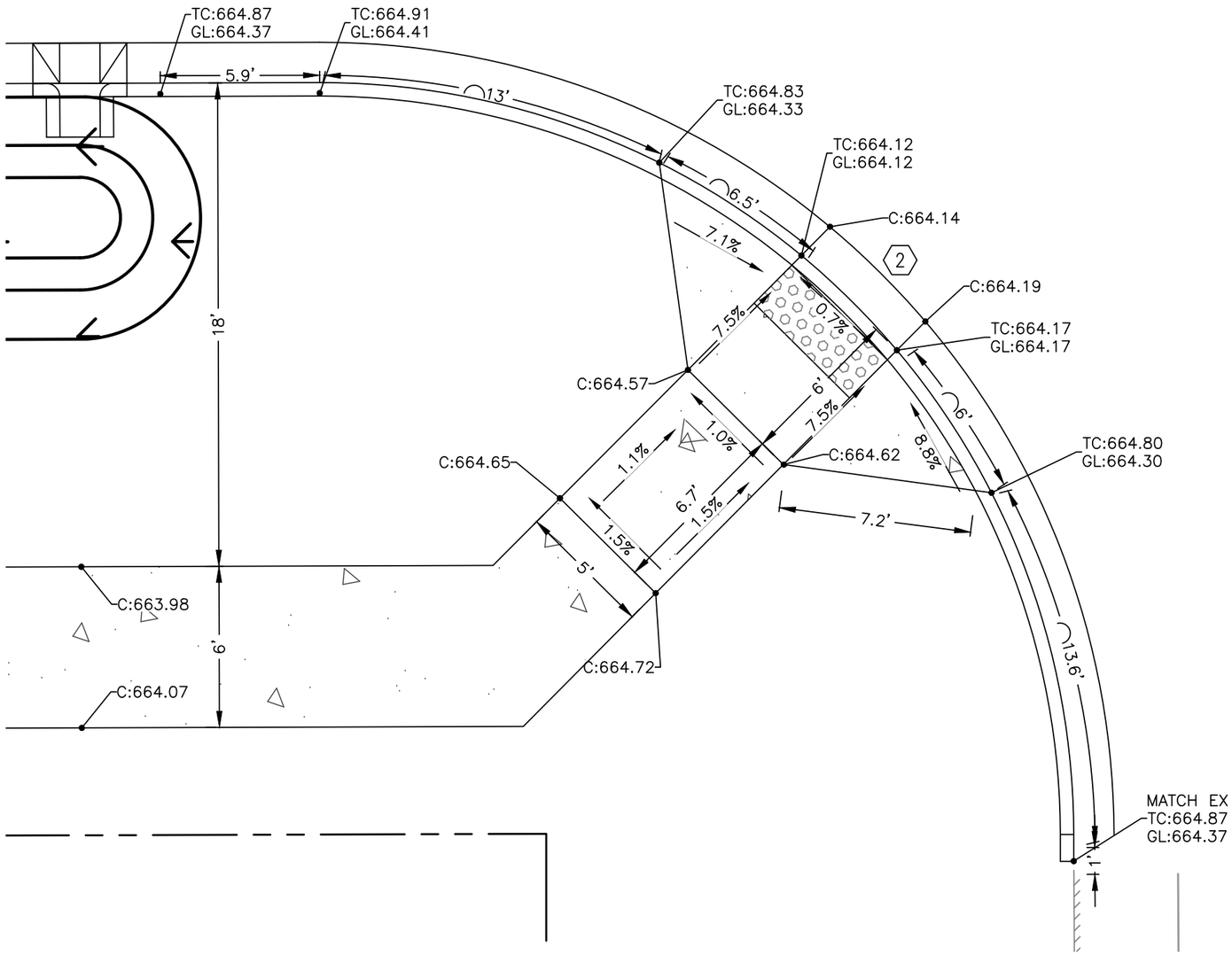
CHECKED BY: DG

DATE: 03/20/2024

Sheet No. C3.0

JOB No. 22-001A

S. R ST.



EAST ADA RAMP

SCALE: 1" = 5

2 CURB RETURN DATA	
Δ	9008'43"
R	28.00'
L	44.05'
P.C.	4+73.92 22.00'LT
P.T.	5+01.92 50.07'LT
CORD LENGTH	
39.65'	
CORD BEARING	
N4455'38" E	

SWEET LN.

GRAPHIC SCALE

0 5 10

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SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
GRADING DETAILS - EAST ADA RAMP

DRAWN BY: ARS

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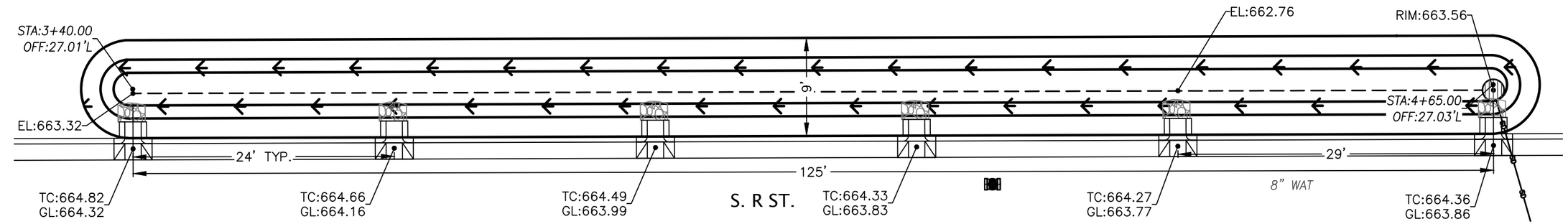
DATE: 03/20/2024

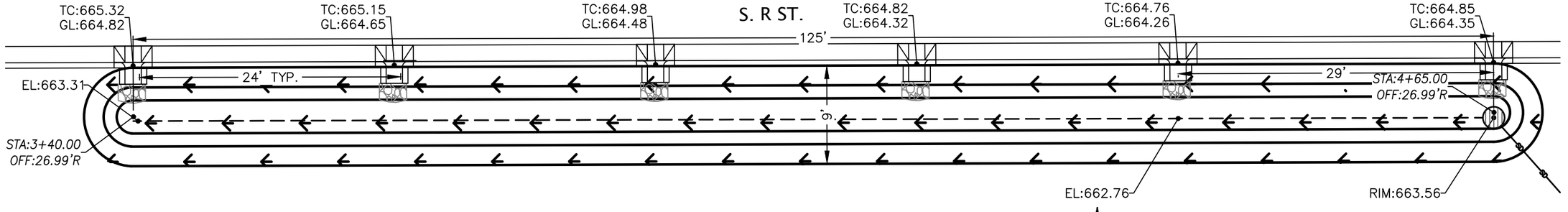
Sheet No. C3.1

JOB No. 22-001A



WEST RAIN GARDEN WITH CURB CUT SPILLWAYS

SCALE: 1" = 10'

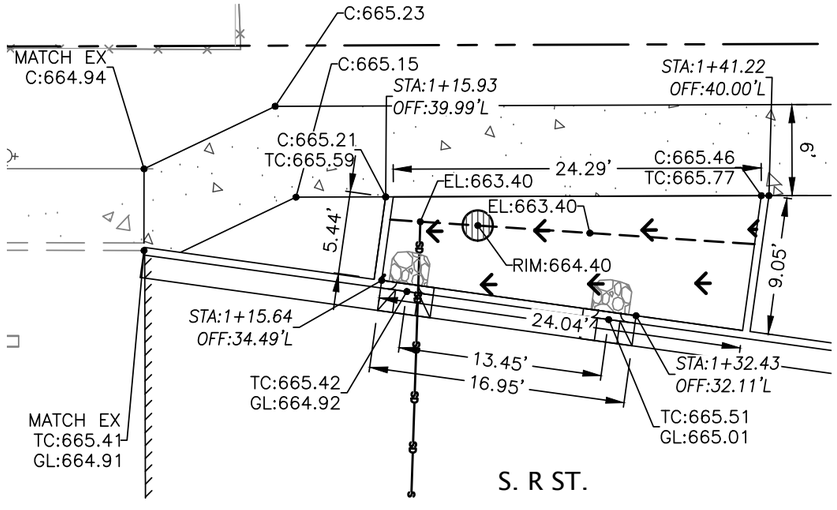


GRAPHIC SCALE

0 10 20

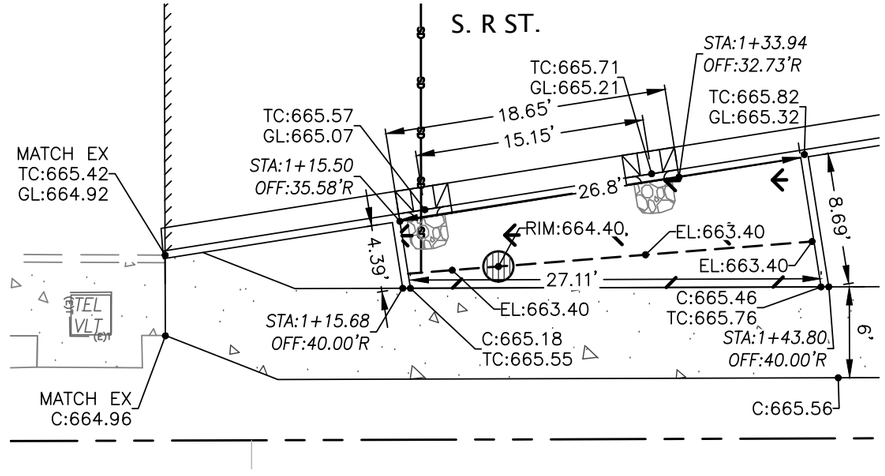
EAST RAIN GARDEN WITH CURB CUT SPILLWAYS

SCALE: 1" = 10'



WEST PLANTER WITH CURB CUT SPILLWAYS

SCALE: 1" = 10'



EAST PLANTER WITH CURB CUT SPILLWAYS

SCALE: 1" = 10'

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SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
GRADING DETAILS STORM FACILITIES

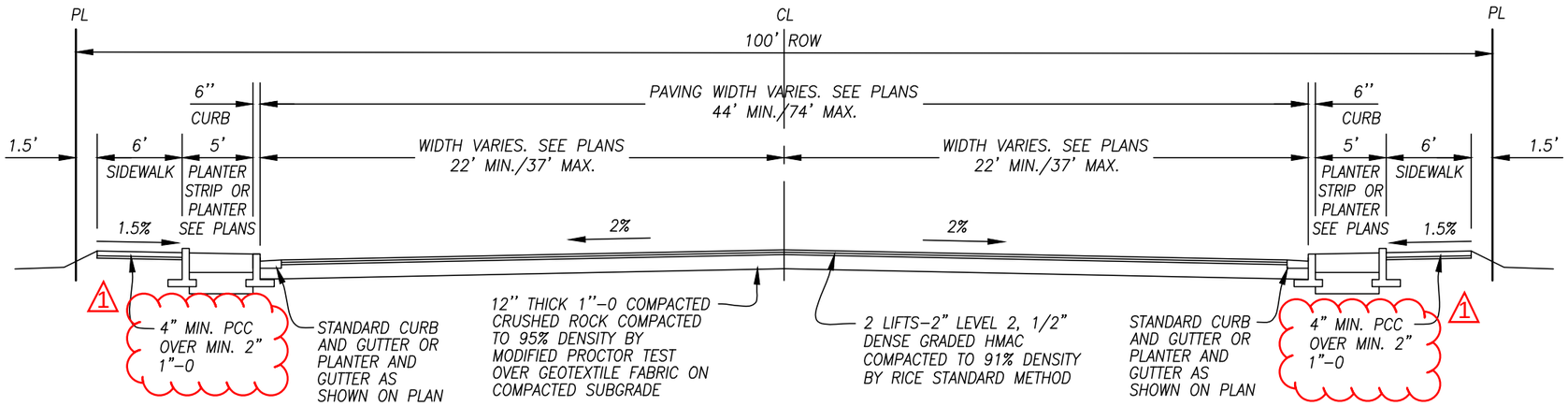
DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

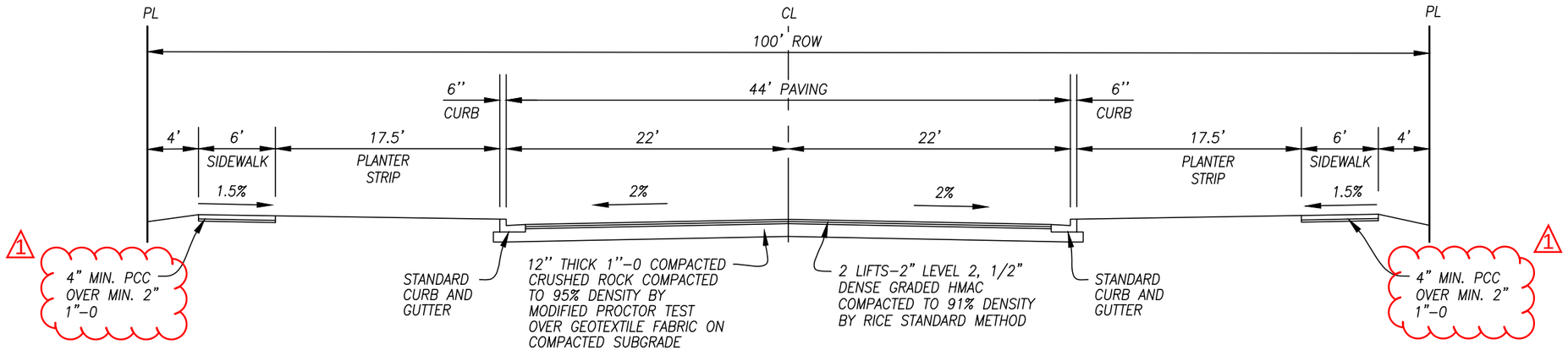
Sheet No. **C3.2**

JOB No. 22-001A



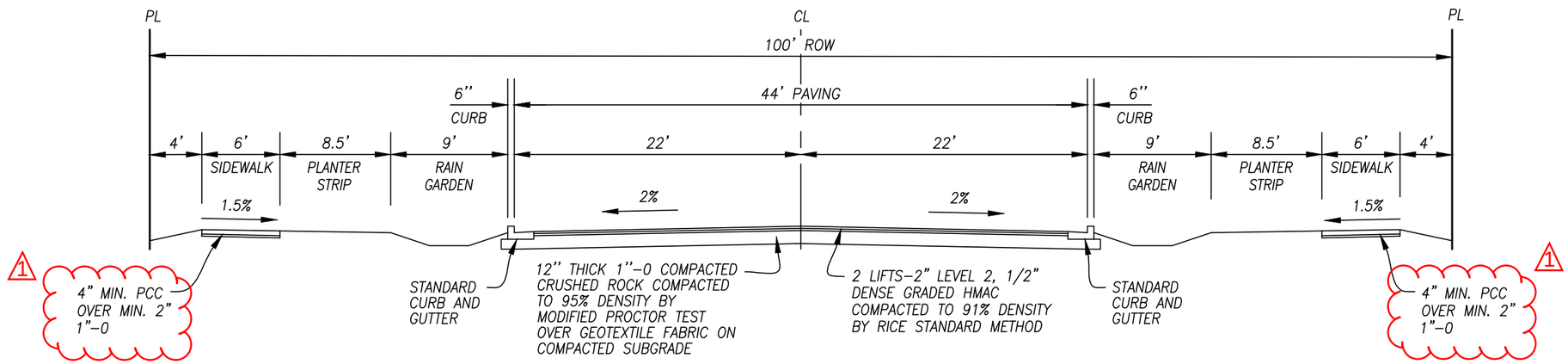
R STREET STA. 1+00 - 2+00

SCALE: 1" = 10'



R STREET STA. 2+00 - 3+28

SCALE: 1" = 10'



R STREET STA. 3+40 - 4+65

SCALE: 1" = 10'

REVISIONS:
1 Addendum #1
04.05.2024

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SOUTH R STREET
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SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS STREET SECTIONS

DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

Sheet No. **C4.0**

JOB No. 22-001A

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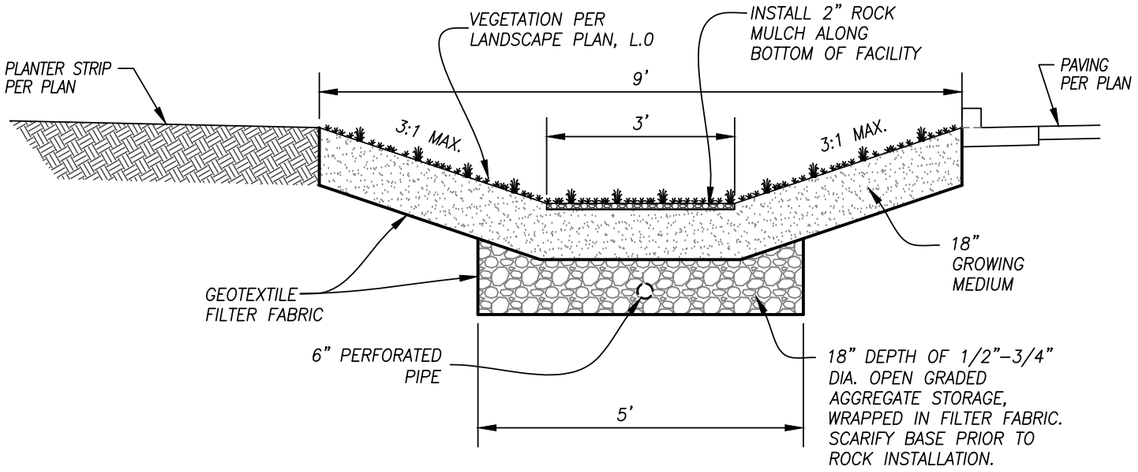
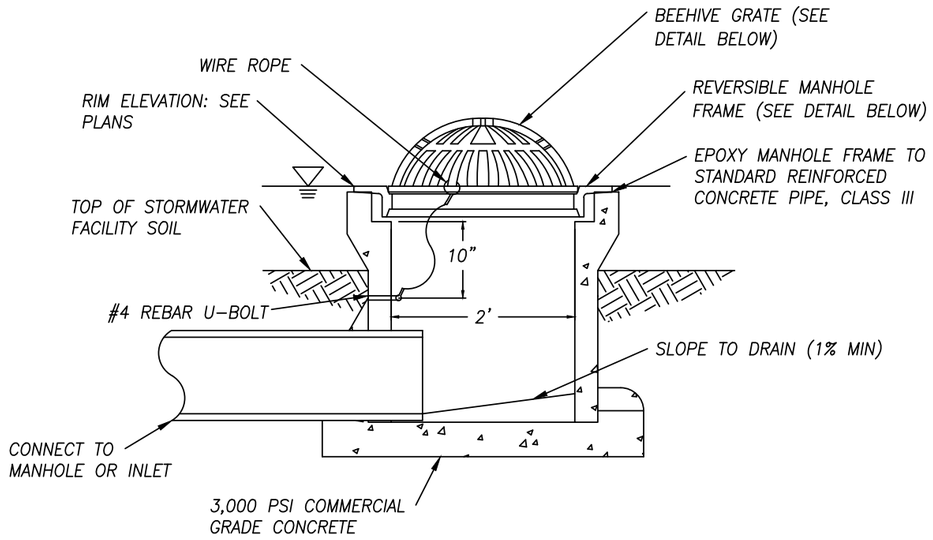


1 VEGETATED RAIN GARDEN SECTION

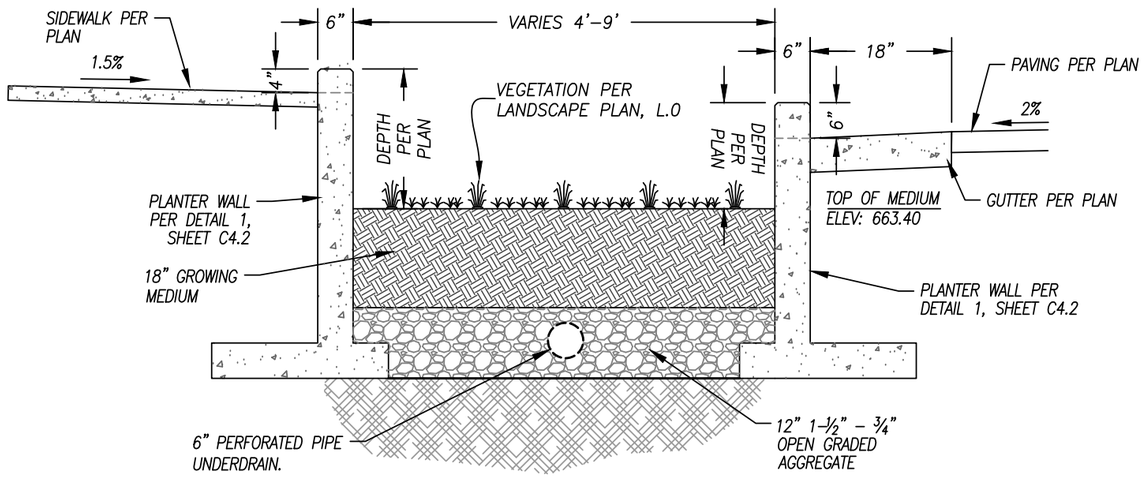
SCALE: NONE



PLAN VIEW

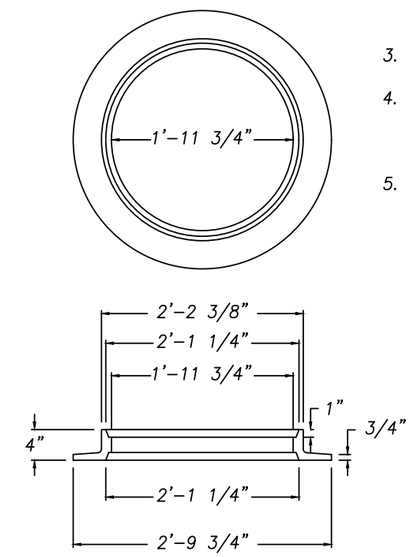
CONSTRUCTION NOTES

1. Secure grate in place with 54" of wire rope. Loop ends of wire rope around U–bolt and grate. Crimp each end of wire rope with ferrule.
2. Drill 2" deep holes into pipe and epoxy #4 rebar U–bolt (2"x 4") in holes.
3. Grate to be cast iron, ASTM A48 CL30.
4. Beehive rim elevation to be 1" lower than sidewalk notches, top of planter wall, top of slope, outlet 'notch or upstream notch, whichever is lowest.
5. Wire rope between 1/8"–3/16" diameter, stainless steel, 7 strands of 19 wires.



2 STORMWATER PLANTER SECTION

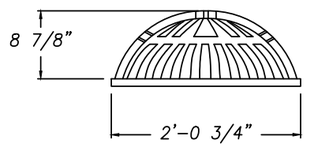
SCALE: NONE



24"x4" REVERSIBLE MANHOLE FRAME

3 24" BEEHIVE INLET

SCALE: NONE



BEEHIVE GRATE

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: June 30, 2025

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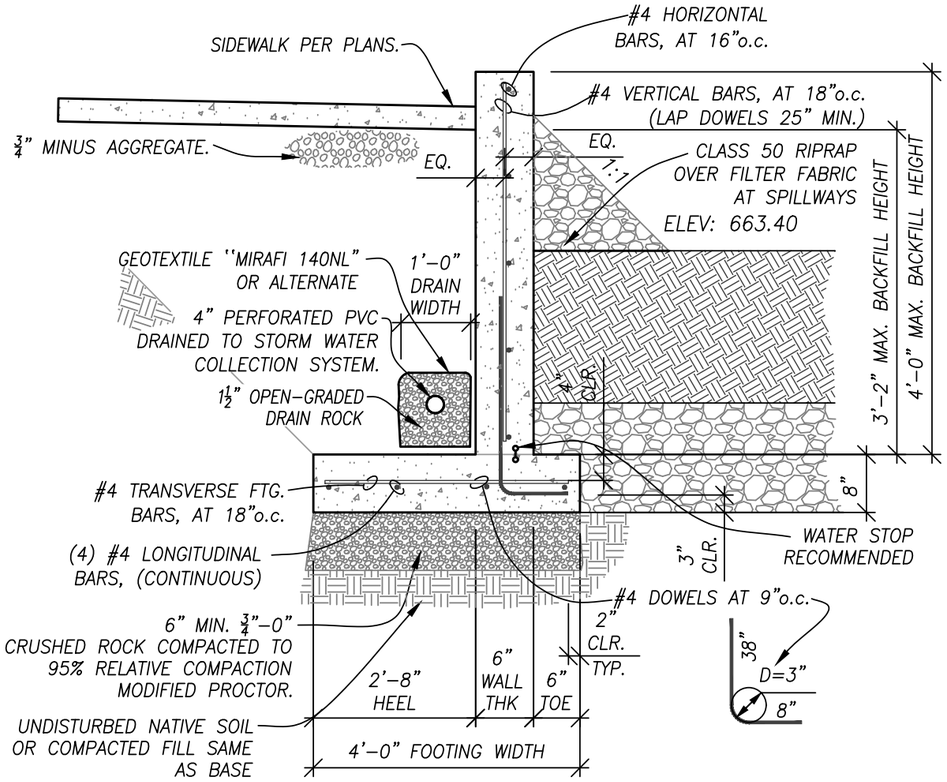
CITY OF COTTAGE GROVE
400 Main Street, Cottage Grove, OR 97424

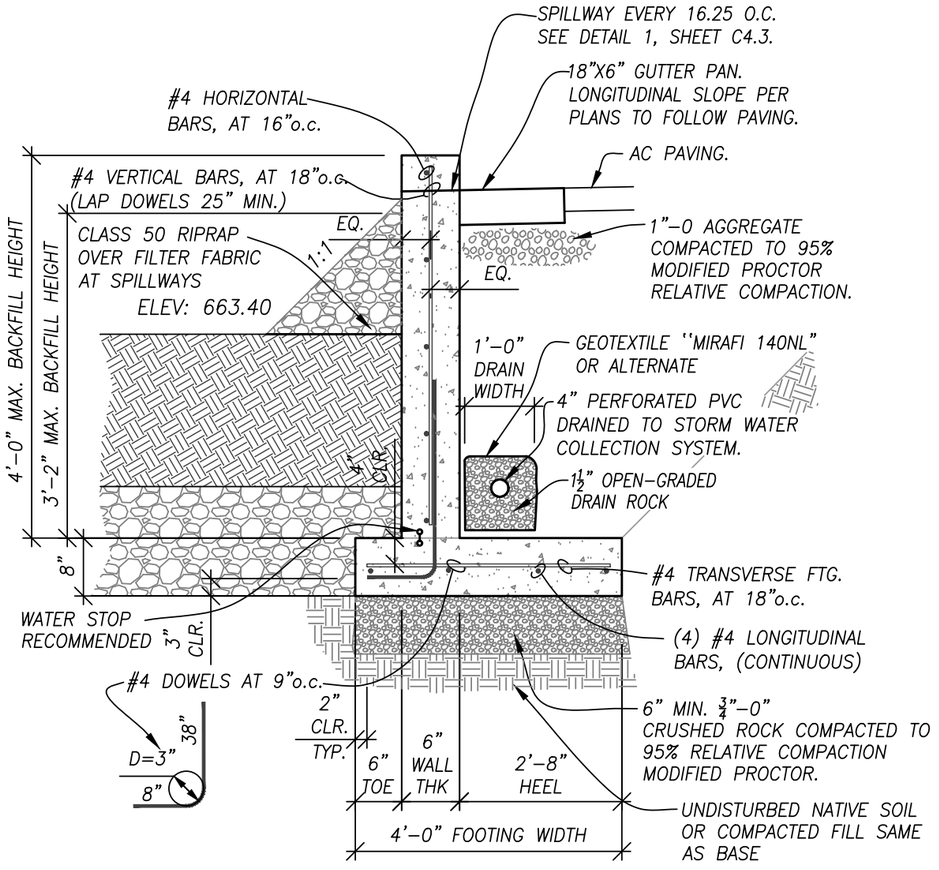
SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS STORM FACILITIES SECTIONS

DRAWN BY: ARS
CHECKED BY: DG
DATE: 03/20/2024
Sheet No. C4.1
JOB No. 22-001A



WALL SECTION AT PLANTER STRIP



WALL SECTION AT CURB AND GUTTER

1 STORMWATER PLANTER WALL DETAILS

SCALE: NONE

NOTES

WITHIN 6' HORIZ. OF RETAINING WALL FACE, LIMIT COMPACTION EQUIPMENT TO "JUMPING JACK" OR WALK-BEHIND COMPACTOR AND LIMIT LIFTS TO 4" LOOSE THICKNESS.
USE GRADE 60 REINFORCING BARS.
CONCRETE COMPRESSIVE STRENGTH: 2500 PSI USED FOR DESIGN, USE 4500 PSI FOR WATER TIGHTNESS.
WATER / CEMENT RATIO: 0.45 OR LESS.

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT
Expires: June 30, 2025

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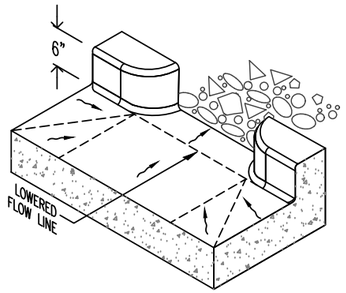
SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS PLANTER WALLS

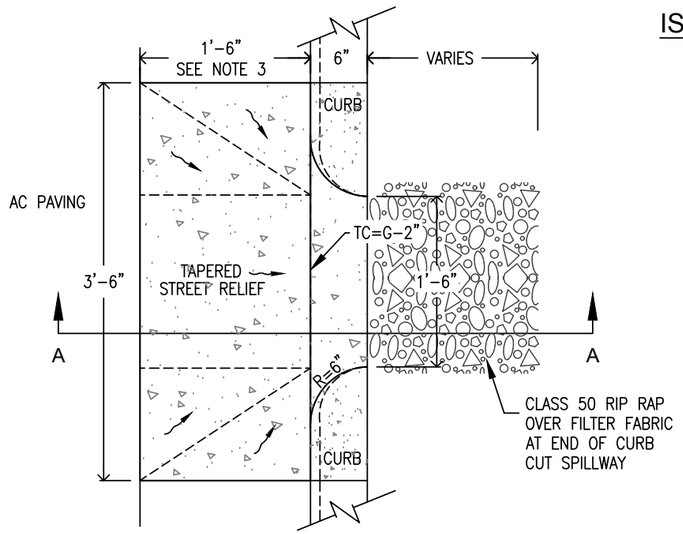
DRAWN BY: ARS
CHECKED BY: DG
DATE: 03/20/2024
Sheet No. C4.2
JOB No. 22-001A

NOTES:

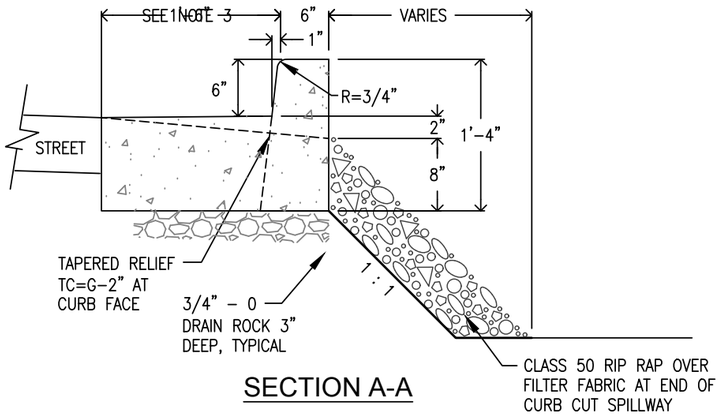
1. Concrete splash pad necessary where water enters and/or exits facility.
2. For stormwater facilities, install class 50 Rip Rap 12" deep & extend 2' into facility to transition splash pad to topsoil.
3. Reference ODOT Standard Drawing RD 700. Use 1'-6" wide gutter, typical.



ISOMETRIC



PLAN



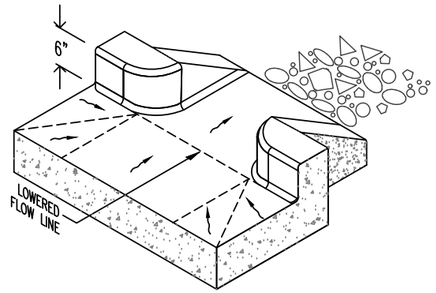
SECTION A-A

1 CURB CUT SPILLWAY AT PLANTERS

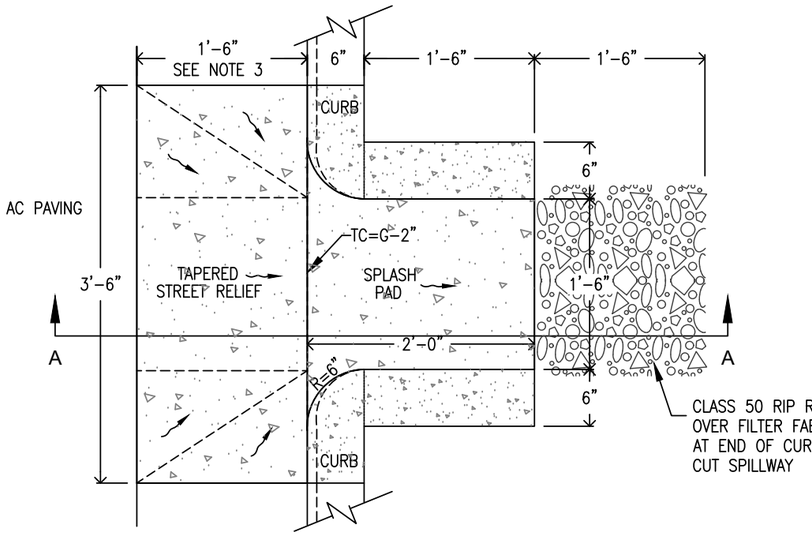
SCALE: NONE

NOTES:

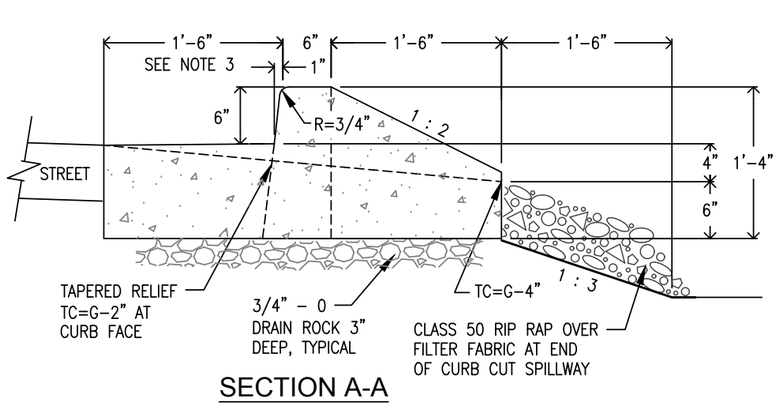
1. Concrete splash pad necessary where water enters and/or exits facility.
2. For stormwater facilities, install class 50 Rip Rap 12" deep & extend 2' into facility to transition splash pad to topsoil.
3. Reference ODOT Standard Drawing RD 700. Use 1'-6" wide gutter, typical.



ISOMETRIC



PLAN



SECTION A-A

2 CURB CUT SPILLWAY AT RAIN GARDENS

SCALE: NONE

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SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS SPILLWAY

DRAWN BY: ARS

CHECKED BY: DG

DATE: 03/20/2024

Sheet No. **C4.3**

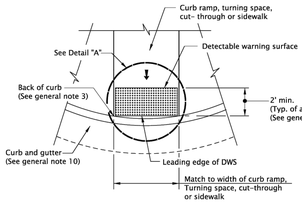
JOB No. 22-001A

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: *June 30, 2025*

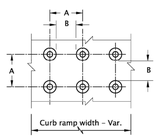
19-JUL-2021

RD902.dgn

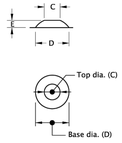


DETECTABLE WARNING SURFACE DETAIL

	A	B	C	D	E
MIN.	1.60"	0.65"	0.45"	0.90"	0.20"
MAX.	2.40"	--	0.91"	1.40"	0.20"

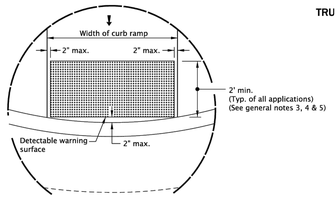


TRUNCATED DOME SPACING



TRUNCATED DOME

TRUNCATED DOME DETAILS



DETAIL "A"

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Detectable warning surface details & locations are based on applicable ODOT Standards.
2. See project plans for details not shown. See Std. Dwgs. RD700 & RD701 for curbs.
3. The detectable warning surface shall extend the full width of the curb ramp opening, shared use path, blended transition, turning space, or other roadway entrance as applicable. A gap of up to 2 inches on each side of the detectable warning surface is permitted (measured at the leading edge of the detectable warning surface panel as shown in Detail "A").
4. Detectable warning surface shall be placed at the back of curb for a minimum depth of 2 ft. in the direction of pedestrian travel at curb ramps that are adjacent to traffic. Detectable warning surface may be radial or rectangular, but must comply with the truncated dome size and spacing standards. Detectable warning surface may be cut to meet necessary shape as shown in plans. Detectable warning surface across a grade break is prohibited. Place abutting panels within¼ inch of each other and install anchors, as specified by manufacturers, along cut edge.
5. Color to be safety yellow if no color specified in construction note. Alternative colors require a design exception on or along state highways.
6. Detectable warning surface shall be used in the following locations:
   a) Curb ramps at street crossings.
   b) Crossing islands (Accessible Route Islands).
   c) Rail crossings.
7. Where public transportation stations (rail, bus, etc.) use platform boarding, detectable warning surface shall be placed along the full edge length of the station, when not protected by platform screens or guards, (see Std. Dwg. RD908).
8. Detectable warning surface shall not be used on the following locations:
   a) End of sidewalk transitions that are not at a crosswalk, (see Std. Dwgs. RD950, RD952 and RD960).
   b) Driveways, unless constructed with curb return or are signalized.
   c) Parking lots, access aisles and passenger loading zones where curb ramp does not lead to vehicular way.
9. Where no curb is present, the detectable warning surface shall be placed at the edge of the roadway.
10. On or along state highways, curb and gutter is required at curb ramps.

LEGEND:

- Detectable warning surface
- Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
- Running slope 7.5% max. (Max. 8.3% finished surface slope)

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

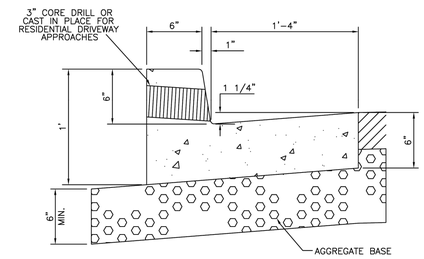
DETECTABLE WARNING SURFACE DETAILS

2024

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED
07-2021	REVISED DETAILS AND NOTES.

CALC. BOOK NO. N/A | SDR DATE 19-JUL-2021 | **RD902**

Effective Date: December 1, 2023 - May 31, 2024



CROSS SECTION

NO SCALE

NOTES:

1. CONCRETE SHALL BE CLASS 3300-3/4 (6.3 SACK MIX) CONFORMING TO SECTION 00759 OF THE CURRENT EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL HAVE A LIGHT BROOM FINISH.
2. AGGREGATE BASE SHALL BE CRUSHED ROCK CONFORMING TO SECTION 00641 OF THE CURRENT EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. WEAKENED PLANE JOINTS (CUT JOINTS) SHALL BE CONSTRUCTED AT 15' INTERVALS AND ADJACENT TO JOINTS IN OTHER IMPROVEMENTS. THEY SHALL EXTEND THROUGH 75% OF THE CURB AND GUTTER CROSS SECTION AND SHALL HAVE 1/4" RADII.
4. DRAIN LINES ON RESIDENTIAL DRIVEWAYS SHALL BE EITHER CAST IN PLACE OR CORE DRILLED TO ALLOW FOR A 3" SLEEVE.
5. DRAIN LINE SLEEVES PLACED THROUGH EXISTING CURBS AT LOCATIONS OTHER THAN AT NEW DRIVEWAY APPROACHES SHALL BE CORE DRILLED ONLY. CURB REMOVAL FOR THE PURPOSE OF PLACING A DRAIN LINE SLEEVE WILL NOT BE PERMITTED UNLESS THE CURB SECTION IS REPLACED MONOLITHICALLY ALONG WITH A SECTION OF SIDEWALK.
6. ANY DAMAGED CURB AND GUTTER OR SIDEWALK SHALL BE REPLACED FROM JOINT TO JOINT OR AS APPROVED BY THE CITY ENGINEER.

REVISIONS NO.	DATE	BY
1	10/23/03	SEH
2	3/17/10	SEH
3	5/01/22	RKB

DESIGN: ENG. DEPT
DRAWN: CDN
CHECKED:
APPROVED BY:
CITY ENGINEER
DATE:

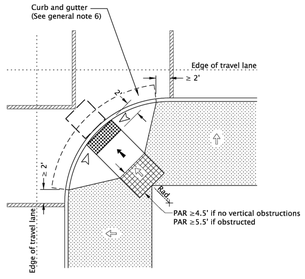
CITY OF COTTAGE GROVE

CURB AND GUTTER

NO. 213
ADOPTED
DATE:
SHEET 1 OF 1

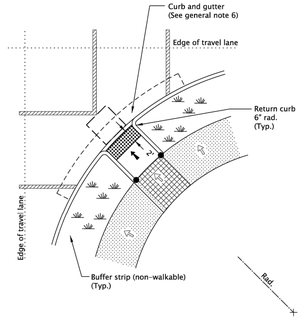
20-JUL-2020

RD916.dgn



DIAGONAL CURB RAMP FOR WIDE SIDEWALKS OPTION "PR-9"

(Use only when site constraints prohibit installing two curb ramps)



DIAGONAL CURB RAMP WITH LANDSCAPED BUFFER STRIP OPTION "PR-10"

(Use only when site constraints prohibit installing two curb ramps)

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Curb ramp details are based on applicable ODOT Standards.
2. See project plans for details not shown.
   See Std. Dwgs. RD700 & RD701 for curbs.
   See Std. Dwgs. RD720 & RD721 for sidewalks.
   See Std. Dwg. RD910 for perpendicular curb ramp details.
   See Std. Dwgs. RD902 through RD908 for detectable warning surface installation details.
3. Tooled dummy joints are required at all curb ramp slope break lines, (see Std. Dwg. RD722).
4. Curb ramp slopes shown are relative to the true level horizon (zero bubble).
5. Only use curb ramp options allowed by jurisdiction. Single ramps required design exceptions on or along state highways.
6. On or along state highways, curb and gutter is required at curb ramps.

LEGEND:

- Marked or intended crossing location
- Sidewalk
- Detectable warning surface
- Level area (Turning space/landing) Unobstructed 4.5' x 4.5' With obstruction 4.5' x 5.5' (Longer dimension in direction of pedestrian street crossing). For the purposes of this application, a max. 2.0% finished surface slope (for drainage) measured perpendicular in two directions is considered level.
- Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
- Running slope 7.5% max. (Max. 8.3% finished surface slope)
- Flare slope (Max. 10% finished surface slope)
- 4'x4' clear space
- PAR Pedestrian Access Route
- Zero curb exposure

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

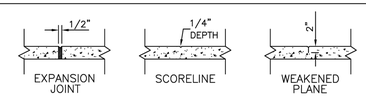
PERPENDICULAR CURB RAMP SINGLE RAMP

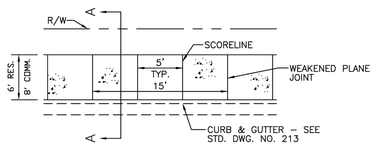
2024

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED

CALC. BOOK NO. N/A | SDR DATE 20-JUL-2020 | **RD916**

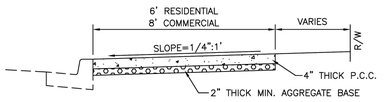
Effective Date: December 1, 2023 - May 31, 2024





PLAN VIEW

NO SCALE



SECTION A–A

NO SCALE

NOTES:

1. CONCRETE SHALL BE CLASS 3300-3/4 (5-1/2 SACK MIX) CONFORMING TO SECTION 00759 OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2008 EDITION, AND SHALL HAVE A SMOOTH BROOM FINISH, UNIFORM IN APPEARANCE AND FREE OF IRREGULARITIES.
2. AGGREGATE BASE SHALL BE CRUSHED ROCK CONFORMING TO SECTION 00641 OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2008 EDITION.
3. EXPANSION JOINT MATERIAL SHALL BE PREMOLDED BITUMINOUS STRIPS CONFORMING TO AASHTO 153, AND SHALL BE PLACED FULL DEPTH AT CURB RETURNS, DRIVEWAYS, OTHER RIGID STRUCTURES (POWER POLES, FIRE HYDRANTS, INLETS, ETC.) AND AT 45' INTERVALS.
4. WEAKENED PLANE JOINTS (CUT JOINTS) SHALL MATCH CURB JOINTS AND PLACED AT 15' INTERVALS.
5. SCORELINES SHALL BE PLACED AT 5' INTERVALS.
6. FOR HANDICAP RAMPS AND SIDEWALK AT CURB RETURNS SEE STANDARD DRAWING NO. 215B.

REVISIONS NO.	DATE	BY
1	10/23/03	SEH
2	6/26/10	SEH

DESIGN: ENG. DEPT
DRAWN: CDN
CHECKED:
APPROVED BY:
CITY ENGINEER
DATE:

CITY OF COTTAGE GROVE

STANDARD RESIDENTIAL AND COMMERCIAL SIDEWALK

NO. 216
ADOPTED
DATE:
SHEET OF

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: June 30, 2025

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CITY OF COTTAGE GROVE
400 Main Street Cottage Grove, OR 97424

SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS

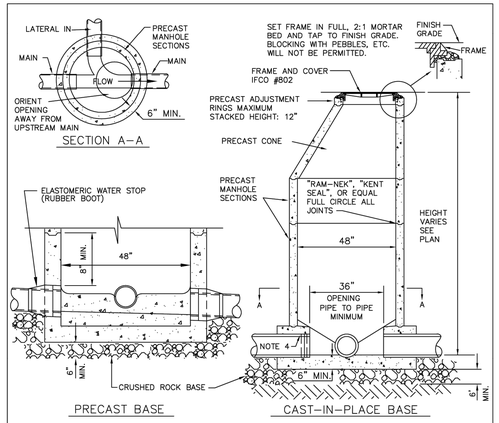
DRAWN BY: ARS

CHECKED BY: KP

DATE: 03/20/2024

Sheet No. **C4.4**

JOB No. 22-001A



NOTES:

1. CONCRETE FOR MANHOLE BASE SHALL BE CLASS 3000-3/4 CONFORMING TO SECTION 00759 OF THE MOST RECENT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. FLOWLINES SHALL BE SMOOTH AND TRUE TO GRADE.
2. PRECAST MANHOLE SECTIONS, CONES, AND RINGS SHALL CONFORM TO ASTM C-478M.
3. PVC, CAST IRON, OR OTHER SMOOTH PIPES ENTERING A SANITARY SEWER CAST-IN-PLACE MANHOLE BASE SHALL BE EQUIPPED WITH AN ELASTOMERIC WATER STOP INTENDED FOR THE PURPOSE. THE USE OF O-RINGS OR PIPE GASKETS FOR WATER STOPS WILL NOT BE PERMITTED.
4. BACKFILL OF MANHOLES SHALL BE THE SAME AS SPECIFIED FOR ATTENDANT PIPELINES.
5. THE ENGINEER MAY REVIEW THE SUBGRADE AND DETERMINE THAT IT IS UNSUITABLE (MUDDY, UNSTABLE, PEAT, ETC.) FOR MANHOLE CONSTRUCTION, AND MAY REQUIRE OVEREXCAVATION AND THE PLACEMENT OF AGGREGATE BASE TO CORRECT THE CONDITION PER SPECIFICATIONS.

REVISIONS			DESIGN: ENG. DEPT
NO.	DATE	BY	DRAWN: CDN
1	10/29/03	SEH	CHECKED:
1	06/28/18	RWS	APPROVED BY:
			CITY ENGINEER
			DATE:

CITY OF COTTAGE GROVE

STANDARD SANITARY OR STORM DRAIN MANHOLE

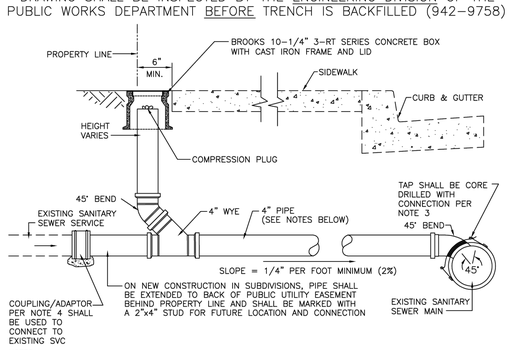
NO. **303**

ADOPTED

DATE:

SHEET OF

ANY AND ALL SANITARY SEWER CONSTRUCTION AS SHOWN ON THIS DRAWING SHALL BE INSPECTED BY THE ENGINEERING DIVISION OF THE PUBLIC WORKS DEPARTMENT BEFORE TRENCH IS BACKFILLED (942-9758)



NOTES:

1. IT IS THE CUSTOMER'S RESPONSIBILITY TO INSTALL A CLEANOUT AND MAINTAIN IT FOR THE CITY'S USE AS SHOWN, AND AS REQUIRED BY CITY ORDINANCE NO. 13.08.120.
2. SANITARY SEWER SERVICE PIPE SHALL BE PVC CONFORMING TO ASTM D3034 WITH ELASTOMERIC JOINTS CONFORMING TO ASTM D3212. PVC SEWER SERVICE FITTINGS SHALL CONFORM TO ASTM D2729.
3. CONNECTION TO EXISTING SANITARY SEWER MAIN SHALL BE MADE WITH A ROMAC TAPPING SADDLE, A FOWLER "INSERTA-TEE", OR APPROVED EQUAL. OTHER METHODS OF CONNECTION MAY BE APPROVED BY THE CITY ENGINEER IN CERTAIN INSTANCES. IF SEWER MAIN IS CORE DRILLED, THE CORE PLUG MUST BE REMOVED FROM THE MAIN.
4. CONNECTION TO EXISTING SANITARY SEWER SERVICE SHALL BE MADE WITH A FERNCO ELASTOMERIC COUPLING/ADAPTER, OR APPROVED EQUAL, OF THE APPROPRIATE SIZE OR SIZES. A COMPRESSION PLUG SHALL BE INSTALLED IN THOSE SEWER SERVICES INTENDED FOR FUTURE CONNECTION. ALL RUBBER COUPLINGS MUST BE SUPPORTED BY PERMANENT BLOCKING (IE. CONCRETE, AS SHOWN ABOVE).
5. ALL CLEANOUTS SHALL BE PROTECTED BY THE INSTALLATION OF A BROOKS 10-1/4", 3-RT SERIES, CONCRETE BOX WITH A TRAFFIC RATED CAST IRON FRAME AND LID. THE WORD "SEWER" SHALL BE STAMPED IN THE LID.
6. TRACER WIRE SHALL BE INSTALLED THE ENTIRE LENGTH OF THE SANITARY SEWER LATERAL AND SHALL BE 14 GAUGE OR HEAVIER, SOLID STRAND, UNDERGROUND FEEDER CABLE, GREEN IN COLOR. THE WIRE SHALL BE COILED AROUND THE TOP OF THE CLEANOUT INSIDE THE TRAFFIC RATED CLEANOUT COVER.
7. TRENCH BACKFILL AND BEDDING MATERIAL SHALL CONFORM TO CITY STANDARD DRAWING NO. 602.
8. CONNECTION TO NEW SANITARY SEWER MAIN FOR NEW CONSTRUCTION SHALL BE BY TEE ONLY. WYES WILL NOT BE PERMITTED.
9. SERVICES SHALL BE CONSTRUCTED PERPENDICULAR TO SEWER MAIN. HORIZONTAL BENDS SHALL NOT BE PERMITTED. ONLY ONE 45° OR SMALLER VERTICAL BEND PERMISSIBLE BETWEEN MAINLINE CONNECTION AND CLEANOUT.
10. ANY NEW CONSTRUCTION THAT WILL UTILIZE AN EXISTING SEWER SERVICE SHALL BE REQUIRED TO T.V. INSPECT THAT EXISTING SERVICE FOR SERVICEABILITY AS DIRECTED BY THE CITY ENGINEER.
11. CLEANOUTS SHALL BE CONSTRUCTED ALONG THE PROPERTY LINE AS SHOWN, OR AS DIRECTED BY THE ENGINEERING DIVISION OF THE PUBLIC WORKS DEPARTMENT.

REVISIONS			DESIGN: ENG. DEPT
NO.	DATE	BY	DRAWN: CDN
1	11/10/03	SEH	CHECKED: SEH
2	6/15/08	ZS	APPROVED BY:
3	3/15/10	SEH	
4	5/29/18	RWS	
			CITY ENGINEER
			DATE:

CITY OF COTTAGE GROVE

SINGLE SANITARY SEWER SERVICE AND CLEANOUT

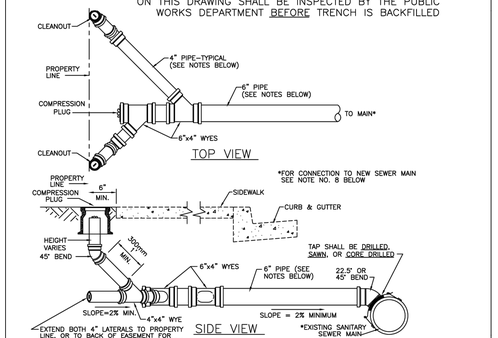
NO. **304**

ADOPTED

DATE:

SHEET 1 OF 1

ANY AND ALL SANITARY SEWER CONSTRUCTION AS SHOWN ON THIS DRAWING SHALL BE INSPECTED BY THE PUBLIC WORKS DEPARTMENT BEFORE TRENCH IS BACKFILLED



NOTES:

1. IT IS THE CUSTOMER'S RESPONSIBILITY TO INSTALL A CLEANOUT AND MAINTAIN IT FOR THE CITY TO USE AS SHOWN AND INSTRUCTED IN CITY ORDINANCE NO. 13.08.120.
2. SANITARY SEWER SERVICE PIPE SHALL BE PVC CONFORMING TO ASTM D3034 WITH ELASTOMERIC JOINTS CONFORMING TO ASTM D3212. PVC SEWER SERVICE FITTINGS SHALL CONFORM TO ASTM D2729.
3. CONCRETE SEWER SERVICE PIPE SHALL BE BELL & SPIGOT TYPE CONFORMING TO ASTM C-14, CLASS 3, WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM C-443.
4. CONNECTION TO EXISTING SANITARY SEWER MAIN SHALL BE MADE WITH A ROMAC TAPPING SADDLE, A FOWLER "INSERTA-TEE", OR APPROVED EQUAL. OTHER METHODS OF CONNECTION MAY BE APPROVED BY THE CITY ENGINEER IN CERTAIN INSTANCES. IF THE SEWER MAIN IS CORE DRILLED, THE CORE PLUG MUST BE REMOVED FROM THE MAIN.
5. CONNECTION TO EXISTING SANITARY SEWER SERVICE SHALL BE MADE WITH A FERNCO ELASTOMERIC COUPLING/ADAPTER, OR APPROVED EQUAL, OF THE APPROPRIATE SIZE OR SIZES. A COMPRESSION PLUG SHALL BE INSTALLED IN THOSE SEWER SERVICES INTENDED FOR FUTURE CONNECTION.
6. ALL CLEANOUTS SHALL BE PROTECTED BY THE INSTALLATION OF A BROOKS 10-1/4", 3-RT SERIES, CONCRETE BOX WITH A TRAFFIC RATED CAST IRON FRAME AND LID. THE WORD "SEWER" SHALL BE STAMPED IN THE LID.
7. AN ELECTRICALLY CONDUCTIVE TRACER WIRE SHALL BE INSTALLED THE ENTIRE LENGTH OF THE SEWER LATERAL AND SHALL BE 14 GAUGE OR HEAVIER, SOLID STRAND, UNDERGROUND FEEDER CABLE, GREEN IN COLOR. THE WIRE SHALL BE COILED AROUND THE TOP OF THE CLEANOUT.
8. TRENCH BACKFILL AND BEDDING MATERIAL SHALL CONFORM TO CITY STANDARD DRAWING STD-602.
9. CONNECTION TO NEW SANITARY SEWER MAIN FOR NEW CONSTRUCTION SHALL BE BY TEE ONLY. WYES SHALL NOT BE ACCEPTED.
10. SERVICES SHALL BE CONSTRUCTED PERPENDICULAR TO SEWER MAIN. HORIZONTAL BENDS SHALL NOT BE PERMITTED. VERTICAL BENDS IN EACH LATERAL SHALL TOTAL NO MORE THAN 135 DEGREES COMBINED.
11. ANY NEW CONSTRUCTION THAT WILL UTILIZE AN EXISTING SEWER SERVICE SHALL BE REQUIRED TO T.V. INSPECT THAT EXISTING SERVICE FOR SERVICEABILITY AS DIRECTED BY THE CITY ENGINEER.
12. CLEANOUTS SHALL BE CONSTRUCTED ALONG THE PROPERTY LINE AS SHOWN, EXCEPT WHEN DISTANCE FROM FACE OF CURB & GUTTER TO PROPERTY LINE IS GREATER THAN 9' FEET, IN WHICH CASE THE CLEANOUT SHALL BE CENTERED 6 INCHES BEHIND THE BACK OF SIDEWALK.

REVISIONS			DESIGN: ENG. DEPT
NO.	DATE	BY	DRAWN: CDN
1	11/12/03	SEH	CHECKED:
			APPROVED BY:
			CITY ENGINEER
			DATE:

CITY OF COTTAGE GROVE

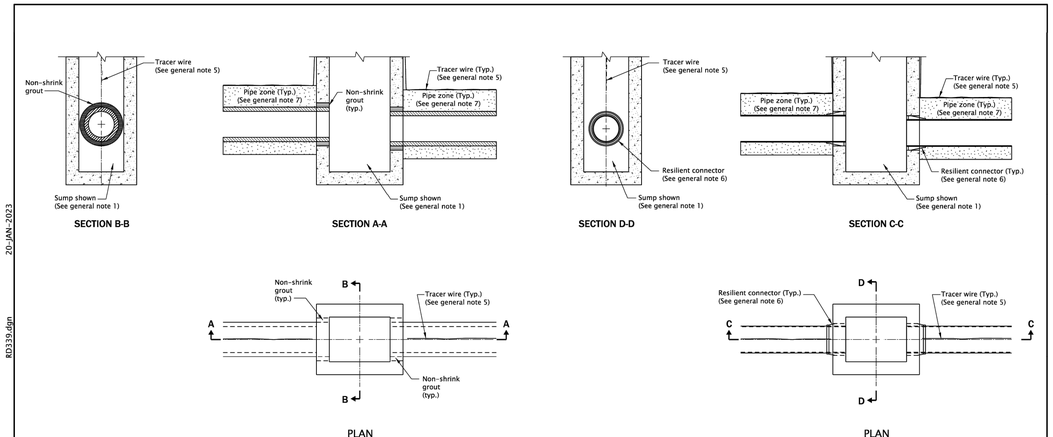
DOUBLE SANITARY SEWER AND CLEANOUT

NO. **304A**

ADOPTED

DATE:

SHEET OF



20-JAN-2023

RD339.dgn

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. See Std. Dwgs. RD364, RD365, and RD366 for inlet details not shown.
2. See appropriate standard drawings or special project details for other similar structures.
3. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
4. Maximum pipe diameter varies with pipe material.
5. All connecting pipes shall have a tracer wire, or approved alternate. See Std. Dwg. RD336 for tracer wire details.
6. When flexible pipe is used, install resilient connectors conforming to requirements of ASTM C923.
7. Pipe zone varies, see Std. Dwg. RD300.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

PIPE TO STRUCTURE CONNECTIONS

2024

DATE	REVISION DESCRIPTION
07-2021	REVISED NOTES
04-2022	REVISED NOTES
01-2023	REVISED DETAILS AND NOTES

CALC. BOOK NO. N/A — SDR DATE 20-JAN-2023 — **RD339**

Effective Date: December 1, 2023 - May 31, 2024

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400 Main Street Cottage Grove, OR 97424

SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS

REGISTERED PROFESSIONAL ENGINEER #62780PE
DIGITALLY SIGNED
OREGON JULY 13, 2004
DAMIEN GILBERT
Expires: June 30, 2025

DRAWN BY: ARS

CHECKED BY: KP

DATE: 03/20/2024

Sheet No. **C4.5**

JOB No. 22-001A

CITY OF COTTAGE GROVE
WATER STANDARD MATERIALS LIST
REVISED APRIL, 2013

DUCTILE IRON PIPE STANDARD: PACIFIC STATES DUCTILE IRON PIPE OR EQUAL
AWWA C151/C150/C111/C104 - 4" THRU 16": MIN. CLASS 52, SPOOLS - MIN. CLASS 52

COPPER PIPE STANDARD: 3/4" OR 1": TYPE "K" SOFT COPPER
1-1/2" OR 2": TYPE "K" HARD DRAWN COPPER

FIRE HYDRANT STANDARDS: KENNEDY (GUARDIAN) 5-1/2" x 6" MECHANICAL JOINT, AWWA-C502-80 (YELLOW). APPROVED ALTERNATE: MUELLER (CENTURION).

RESILIENT SEATED (EPOXY COATED) GATE VALVE STANDARD: 2" TO 12" AWWA C515
MUELLER, KENNEDY, AMERICAN FLOW CONTROL.

BRASS SERVICE LINE FITTINGS STANDARD: AWWA C800-94, FORD, A.Y. McDONALD, OR MUELLER CO. ONLY, 3/4" & 1" TAPS C.C. THREADS, FULL PORT, BALL STYLE CORPORATION & METER STOP FLARED FITTINGS. ALTERNATE: MUELLER 110 & FORD Q STYLE COMPRESSION FITTINGS.

METER BOXES, 3/4" TO 1" SERVICES STANDARD: METER BOX: FL12T FIBRELYTE, 12" X 20";
LID: CHRISTY B12S REINFORCED CONCRETE; DROP-IN READER LID: BROOKS NO. 36-S (1-S), 5½" X 9¼" X 1¼"

METER BOXES, 1-1/2" OR 2" SERVICES WITH METER SETTER: ARMORCAST A6001640PCX28 BOX
(17" X 30" X 28" WITH A6001643DZ COVER AND A6000482 DROP-IN LID (9" X 14").

METER BOXES, 1-1/2" OR 2" SERVICES WITHOUT METER SETTER: ARMORCAST A6001640PCX12 BOX
(17" X 30" X 12" WITH A6001643DZ COVER AND A6000482 DROP-IN LID (9" X 14").

METER SETTERS, 1-1/2" OR 2" SERVICES: FORD NO. VBH-87-12B-11-77

VALVE BOXES STANDARD: TYLER 7000 SERIES WITH TYLER 6855 LID AND SIGMA VB46 SERIES BOXES AND LIDS.

2" TAPPING SADDLES: MUELLER (DB2A) DOUBLE STRAP, IRON PIPE THREAD. APPROVED ALTERNATE: ROMAC 202.

LIVE (HOT) TAPPING SADDLES, TAP SIZE 4" AND LARGER STANDARD: FOR ALL SIZES JCM 432, ALL STAINLESS.

DUCTILE IRON FITTINGS STANDARD: AWWA C110/C115/C153/C104, TYLER OR APPROVED EQUAL WITH 350 PSI PRESSURE RATING WHERE AVAILABLE OR 250 PSI PRESSURE RATING WHERE NOT AVAILABLE.

RETAINER GLANDS STANDARD: EBBA IRON MEGALUG (MJ PIPE), ROMAC GripRing, OR U.S. PIPE FIELD LOK GASKETS.

DISTRIBUTION PUMPS STANDARD: CORNELL.

BUTTERFLY VALVE STANDARD 14" OR LARGER: PRATT APPROVED ALTERNATE: KENNEDY

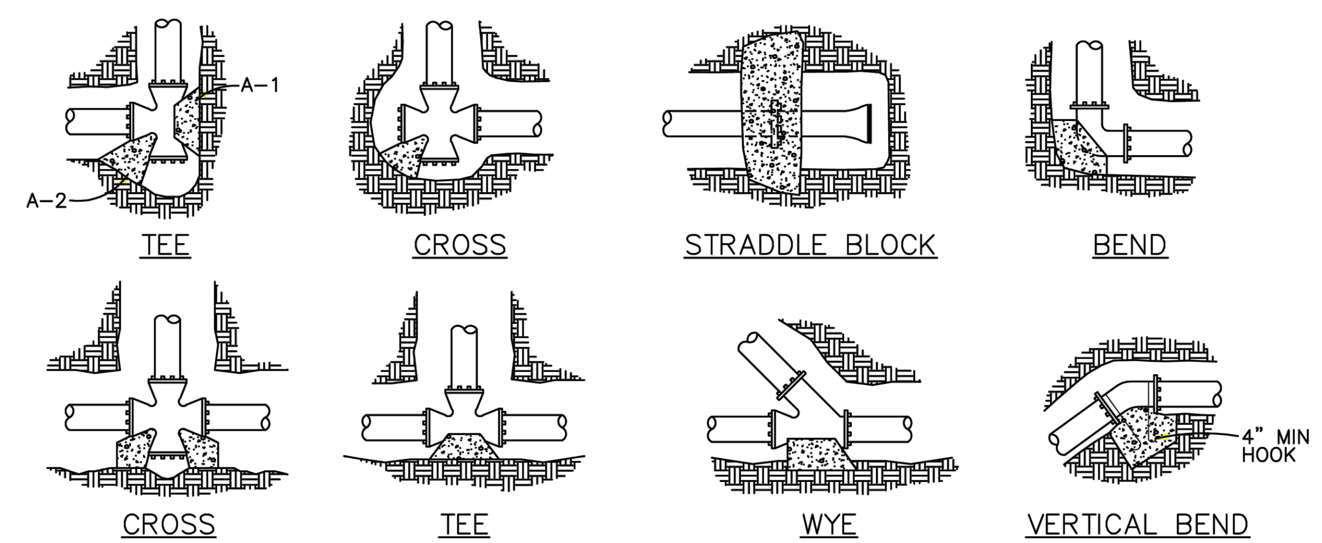
REVISIONS NO.	DATE	BY
1	9/1/00	CDN
2	8/31/00	CDN
3	1/15/01	CDN
4	5/30/02	RKB
5	9/1/03	SEH
7	4/17/13	SEH

DESIGN: ENG. DEPT. DRAWN: CDN CHECKED: APPROVED BY: CITY ENGINEER DATE:

CITY OF COTTAGE GROVE — STANDARD MATERIALS LIST FOR WATER — NO. 400 — ADOPTED — DATE: — SHEET OF

FITTING SIZE	(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET: TEE, WYE, DEAD END AND HYDRANT	STRADDLE BLOCK	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN A-1	TEE PLUGGED ON RUN A-2	45° BEND	22-1/2° BEND	11-1/4° BEND	(VERTICAL) VOLUME OF THRUST BLOCK IN CUBIC YARDS: 90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	1.0	1.6	1.4	1.9	1.4	1.0	---	---	---	---	---	---
6	2.1	3.7	3.0	4.3	3.0	1.6	1.0	---	1.3	---	---	---
8	3.8	6.5	5.3	7.6	5.4	2.9	1.5	1.0	2.3	1.1	---	---
10	5.9	10.2	8.4	11.8	8.4	4.6	2.4	1.2	3.7	1.8	---	---
12	8.5	14.7	12.0	17.0	12.0	6.6	3.4	1.7	5.5	2.8	1.2	---
14	11.5	---	16.3	23.0	16.3	8.9	4.6	2.3	7.6	3.9	1.7	---
16	15.0	26.1	21.3	30.0	21.3	11.6	6.0	3.0	9.9	5.1	2.3	0.9
18	19.0	---	27.0	38.0	27.0	14.6	7.6	3.8	---	---	---	---
20	23.5	40.8	33.3	47.0	33.3	18.1	9.4	4.7	---	---	---	---
24	34.0	58.8	48.0	68.0	48.0	26.2	13.6	6.8	---	---	---	---

NOTES:
1. ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:
   BEARING AREA = (TEST PRESSURE / 150) x (2000 / SOIL BEARING STRESS) x (TABLE VALUE)
2. ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE = 4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:
   VOLUME = (TEST PRESSURE / 150) x (TABLE VALUE)

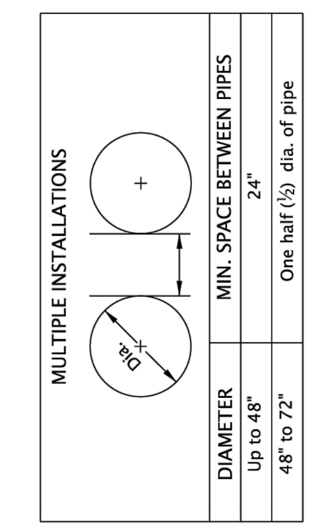


NOTES:
1. CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. ALL CONCRETE TO BE CLASS 2400 MINIMUM.
3. INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
4. CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
5. TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH.

RODS FOR VERTICAL BENDS		
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

REVISIONS NO. DATE BY — DESIGN: ENG. DEPT. DRAWN: CDN CHECKED: APPROVED BY: CITY ENGINEER DATE:

CITY OF COTTAGE GROVE — THRUST BLOCKING — NO. 402 — ADOPTED — DATE: — SHEET OF



GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:
1. Surfacing of paved areas shall comply with street cut Std. Dwg. RD302.
2. For pipe installation in embankment areas where the trench method will not be used and the pipe is ≥ 36" diameter, increase dimension "B" to nominal pipe diameter.
3. Pipes over 72" diameter are structures, and are not applicable to this drawing.
4. See Std. Dwg. RD336 for tracer wire details (When required).

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS

2024

DATE — REVISION DESCRIPTION

CALC. BOOK NO. N/A — SDR DATE 14-JUL-2014 — RD300

Effective Date: December 1, 2023 - May 31, 2024

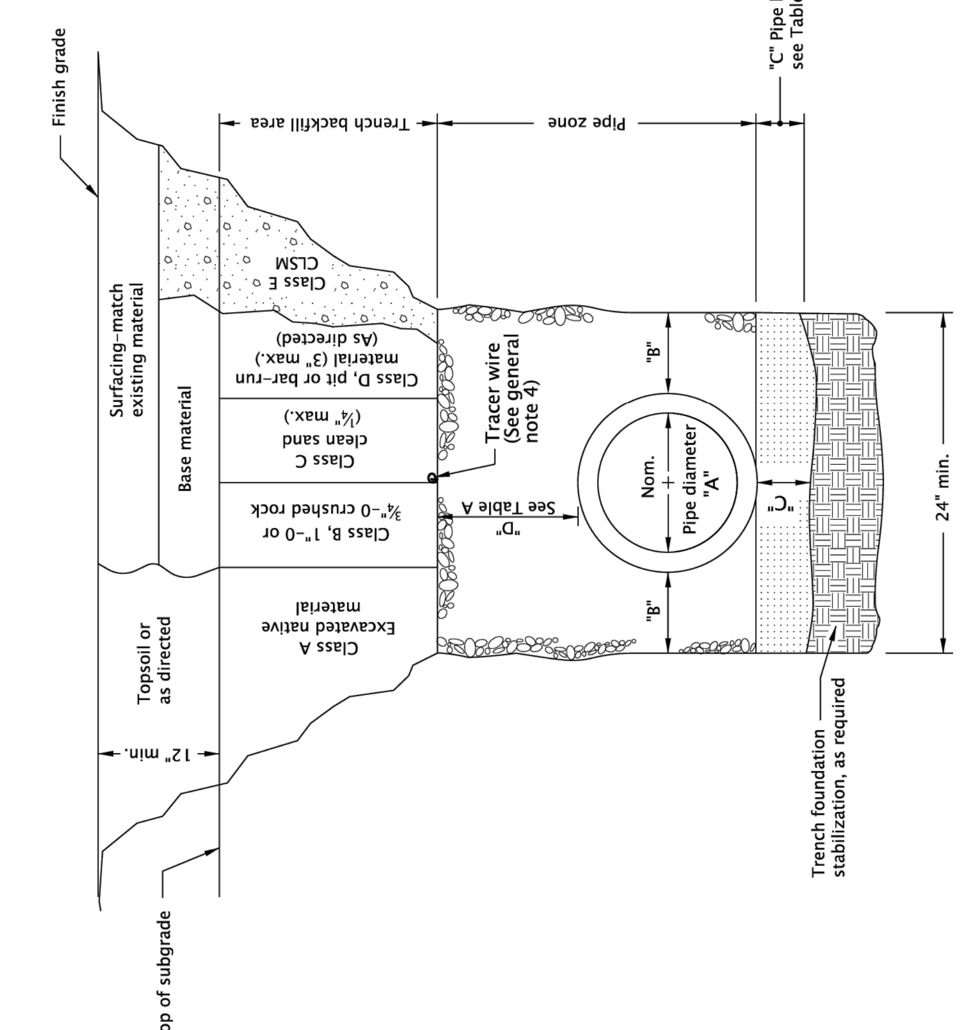
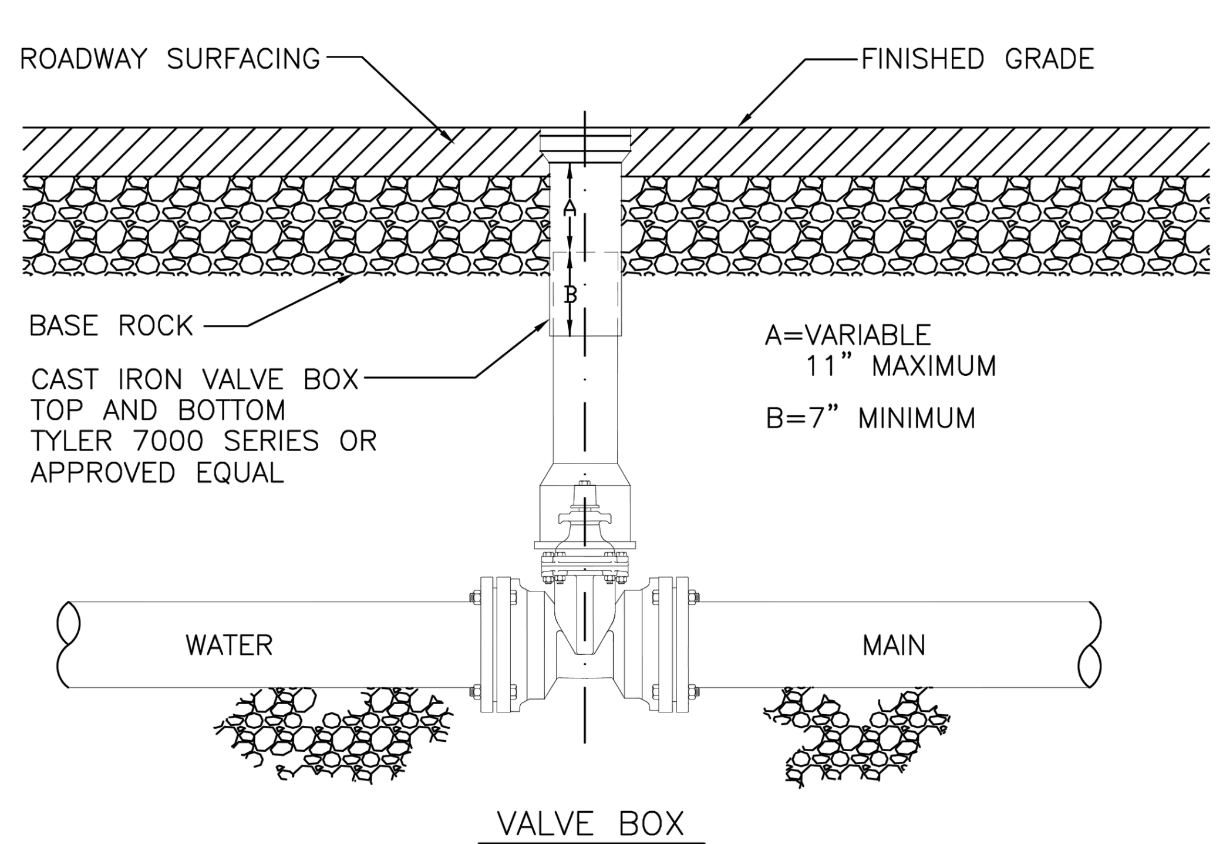


TABLE A

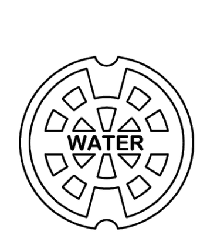
"A" (in)	"B" (in)	"C" (in)	"D" (in)
4	10	4	8
6	10	4	8
8	10	6	10
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

For pipes over 72" diameter, see general note 3.

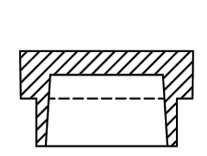
20-JUL-2020 RD300.dgn



VALVE BOX



LID MARKINGS



SECTION

DROP-IN LID

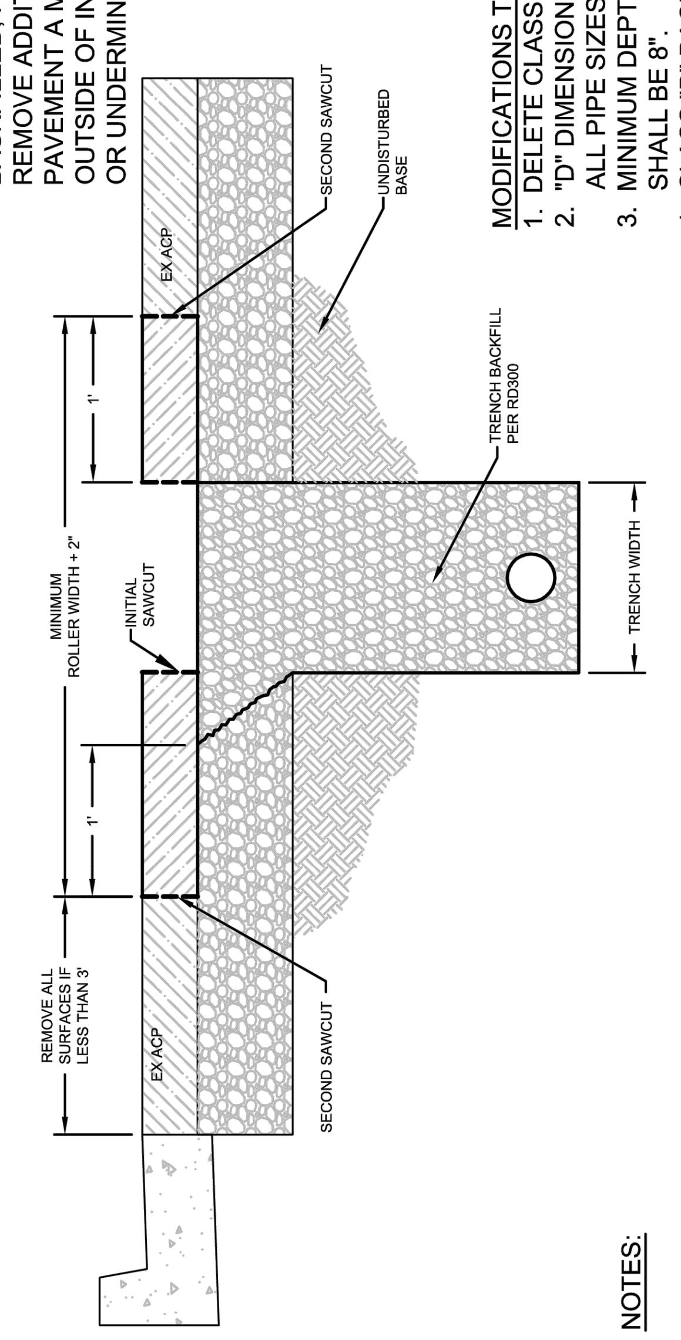
NOTES:
1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT AND SHALL BE PLACED IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. VALVE BOX BOTTOM SHALL BE AS SPECIFIED ABOVE. PVC OR COUPLERS WILL NOT BE PERMITTED.
4. VALVE BOX TOP AND BOTTOM OVERLAP SHALL BE A MINIMUM OF 7 INCHES.

REVISIONS NO. DATE BY — DESIGN: ENG. DEPT. DRAWN: SEH CHECKED: RKB APPROVED BY: CITY ENGINEER DATE:

CITY OF COTTAGE GROVE — WATER VALVE BOX — NO. 408 — ADOPTED — DATE: — SHEET OF

AFTER TRENCH IS BACKFILLED, RESAW AND REMOVE ADDITIONAL PAVEMENT A MINIMUM 12" OUTSIDE OF INITIAL SAWCUT OR UNDERMINING.

MODIFICATIONS TO ODOT RD300
1. DELETE CLASS "C" BACKFILL.
2. "D" DIMENSION SHALL BE 12" IN ALL PIPE SIZES.
3. MINIMUM DEPTH OF TOP SOIL SHALL BE 6".
4. CLASS "B" BACKFILL MAY BE 1-1/2"-0.
5. DELETE GENERAL NOTE 1. ACP STREET CUTS SHALL COMPLY WITH DETAIL THIS SHEET. PCC STREET CUTS SHALL COMPLY WITH DET1601.



NOTES:
1. CUT THE EXISTING PAVEMENT WITH A ROTARY SAW.
2. THE INITIAL SAWCUT WIDTH SHALL NOT BE MORE THAN 6 INCHES WIDER THAN SHOWN IN TABLE A.
3. ACP SHALL BE LEVEL 1 OR 2, 1/2" DENSE FOR LOCAL STREETS, LEVEL 2, 1/2 " DENSE FOR COLLECTORS, AND LEVEL 3, 1/2 " DENSE FOR ARTERIALS.
4. PLACE ACP A MINIMUM OF 6" OR MATCH EXISTING PAVEMENT THICKNESS, WHICHEVER IS GREATER.
5. IF THE EXISTING PAVEMENT IS A COMPOSITE OF PCC AND ACP, MATCH EXISTING COMPOSITE STRUCTURE.
6. FOG SEAL THE ENTIRE TRENCH PATCH ACCORDING TO 00749, UNLESS THE PATCH WAS PLACED WITH A PAVING MACHINE.
7. RESTORE ALL PAVEMENT MARKINGS.

PAVING JOINTS:
ALL LONGITUDINAL PAVING JOINTS SHALL BE LOCATED AS FOLLOWS:
- WITHIN 6" OF MARKINGS (BUT NOT UNDER)
- IN THE CENTER OF THE TRAVEL LANE
- AT THE GUTTER LIP

REVISIONS NO. 1 DATE 1/2/18 BY RWS — DESIGN: ENG. DEPT DRAWN: CHECKED: APPROVED BY: CITY ENGINEER DATE:

CITY OF COTTAGE GROVE — TRENCH BACKFILL, BEDDING, PIPE ZONE, AND MULTIPLE INSTALLATIONS — RD300(A) — ADOPTED — DATE: — SHEET OF

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SOUTH R STREET RIGHT-OF-WAY IMPROVEMENTS
SOUTH R STREET SOUTH OF SWEET LANE COTTAGE GROVE, OREGON DETAILS

REGISTERED PROFESSIONAL ENGINEER #62780PE
DIGITALLY SIGNED
OREGON JULY 13, 2004
DAMIEN GILBERT
Expires: June 30, 2025

DRAWN BY: ARS

CHECKED BY: KP

DATE: 03/20/2024

Sheet No. C4.6

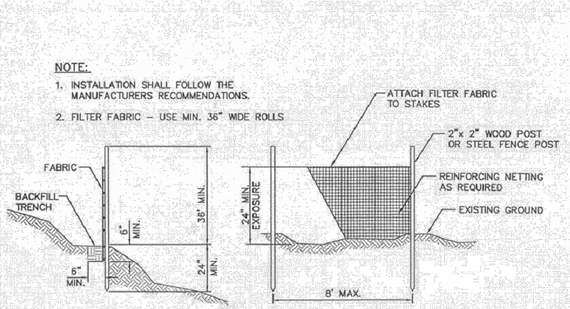
JOB No. 22-001A

SEDIMENT FENCE NOTES

1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST, OR OVERLAP 2"x2" POSTS AND ATTACH AS SHOWN ON DETAIL SHEET.
2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW ALONG THE PROPERTY LINE SURROUNDING SITE.
3. THE FILTER FABRIC SHALL HAVE A MINIMUM VERTICAL BURIAL OF 8-INCHES. ALL EXCAVATED MATERIAL FROM FILTER FABRIC FENCE INSTALLATION, SHALL BE BACKFILLED AND COMPACTED, ALONG THE ENTIRE DISTURBED AREA.
4. STANDARD OR HEAVY DUTY FILTER FABRIC SHALL HAVE MANUFACTURED STITCHED LOOPS FOR 2"x2" POST INSTALLATION. STITCHED LOOPS SHALL BE INSTALLED ON THE UP-HILL SIDE OF THE SLOPED AREA.
5. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY PROTECTED AND STABILIZED.
6. FILTER FABRIC FENCES SHALL BE INSPECTED BY CONTRACTOR IMMEDIATLY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

NOTE:

1. INSTALLATION SHALL FOLLOW THE MANUFACTURERS RECOMMENDATIONS.
2. FILTER FABRIC – USE MIN. 36" WIDE ROLLS



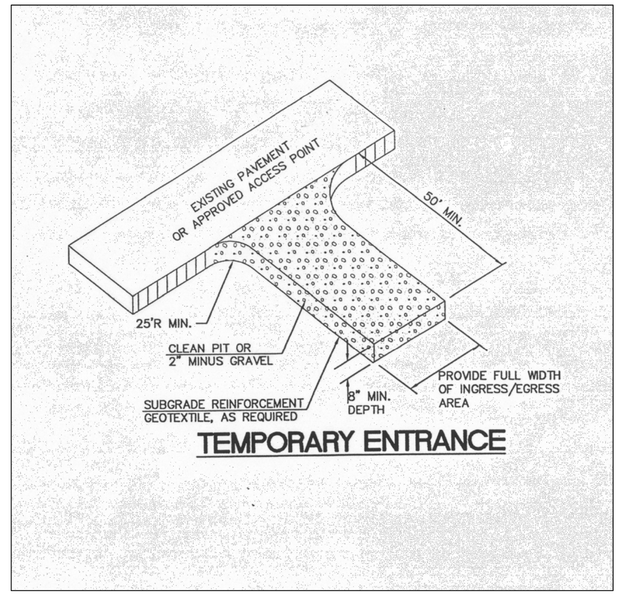
SEDIMENT FENCE

REVISIONS			DESIGN: ENG. DEPT.
NO.	DATE	BY	DRAWN: CDN
			CHECKED:
			APPROVED BY:
			CITY ENGINEER
			DATE:

CITY OF COTTAGE GROVE

SEDIMENT FENCE PLACEMENT

NO. **701**
ADOPTED
DATE:
SHEET OF



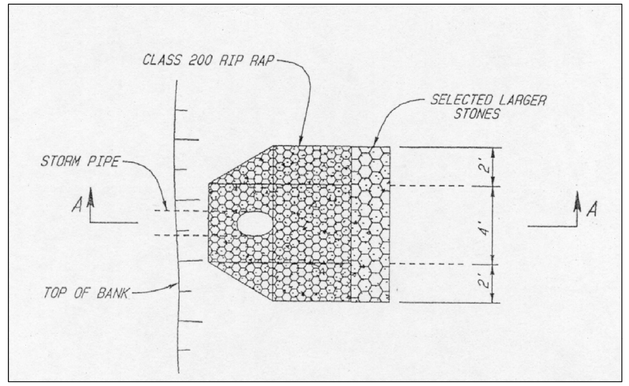
TEMPORARY ENTRANCE

REVISIONS			DESIGN: ENG. DEPT.
NO.	DATE	BY	DRAWN: CDN
			CHECKED:
			APPROVED BY:
			CITY ENGINEER
			DATE:

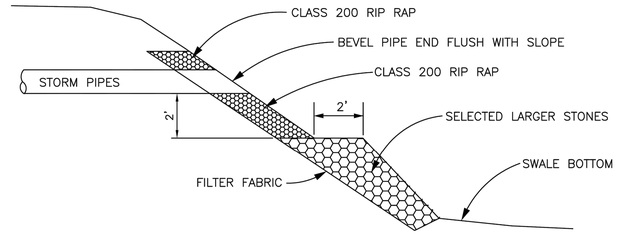
CITY OF COTTAGE GROVE

TEMPORARY GRAVEL ENTRANCE

NO. **702**
ADOPTED
DATE:
SHEET OF



PLAN VIEW



SECTION A-A

REVISIONS			DESIGN: ENG. DEPT.
NO.	DATE	BY	DRAWN: CDN
1	11/17/03	SEH	CHECKED:
			APPROVED BY:
			CITY ENGINEER
			DATE:

CITY OF COTTAGE GROVE

RIP-RAP

NO. **310**
ADOPTED
DATE:
SHEET OF

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: June 30, 2025

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400 Main Street Cottage Grove, OR 97424

SOUTH R STREET
RIGHT-OF-WAY IMPROVEMENTS

SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
DETAILS

DRAWN BY: ARS

CHECKED BY: KP

DATE: 03/20/2024

Sheet No. **C4.7**

JOB No. 22-001A

CONSTRUCTION NOTES:

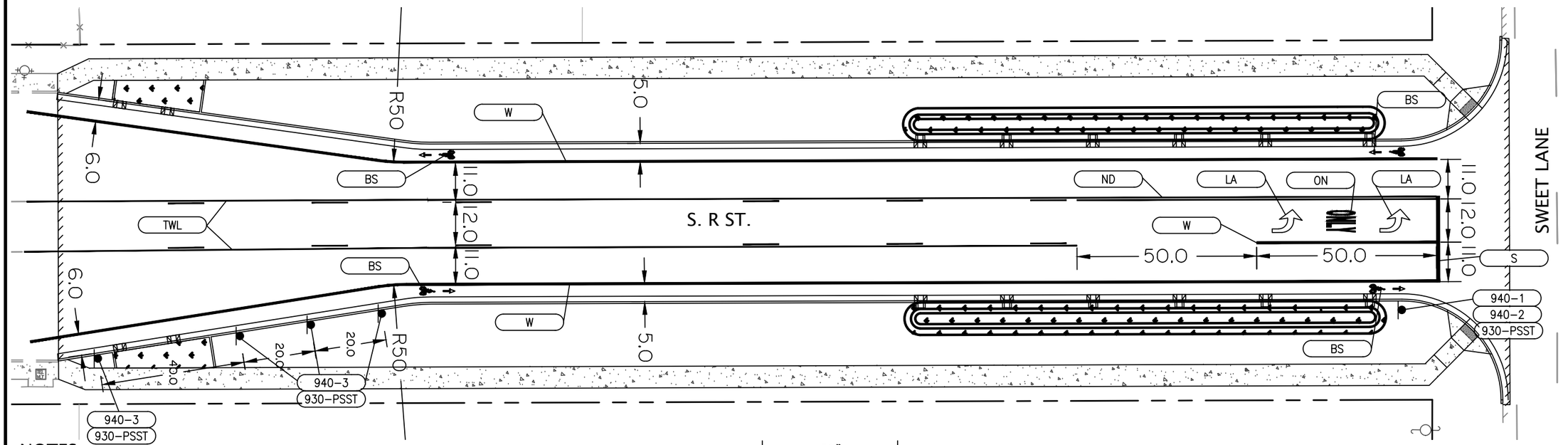
STRIPING

- W — *CONSTRUCT 8" WHITE LINE PER ODOT STD. DWG. TM500.*
- S — *CONSTRUCT 12" STOP BAR (WHITE) PER ODOT STD. DWG. TM503.*
- BS — *CONSTRUCT BIKE LANE STANDARD STENCIL (WHITE) PER ODOT STD. DWG. TM503.*
- TWL — *CONSTRUCT TWO WAY LEFT TURN (4" YELLOW LINES) PER ODOT STD. DWG. TM500.*
- ND — *CONSTRUCT NARROW DOUBLE NO-PASS (TWO 4" YELLOW LINES) PER ODOT STD. DWG. TM500.*
- LA — *CONSTRUCT LEFT TURN ARROW (WHITE) PER ODOT STD. DWG. TM501.*
- ON — *CONSTRUCT ONLY STENCIL (WHITE) PER ODOT STD. DWG. TM503.*

SIGNING

- 930-PSST — *INSTALL PERFORATED STEEL TUBE SIGN SUPPORT PER ODOT STD. DWG. TM687.*
- 940-1 — *INSTALL STOP SIGN (R1-1) PER ODOT STD. DWGS. TM200 AND TM687. SEE TABLE AND DETAILS THIS SHEET.*
- 940-2 — *INSTALL (2) DOUBLE FACED STREET NAME SIGNS (ONE EACH WAY) (D3-1) PER ODOT STD. DWGS. TM200 AND TM687. SEE TABLE AND DETAILS THIS SHEET.*
- 940-3 — *INSTALL (4) TYPE 3 OBJECT MARKERS (OM-3R) PER ODOT STD. DWGS. TM200 AND TM687. SEE TABLE AND DETAILS THIS SHEET.*

GRAPHIC SCALE
0 30 60

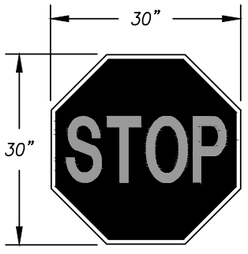


NOTES

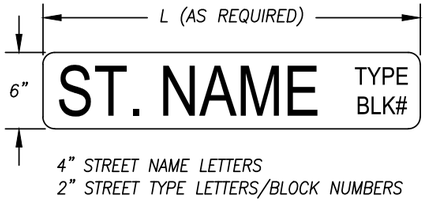
ALL STRIPING MATERIALS SHALL COMPLY WITH CURRENT OREGON SPECIFICATIONS FOR CONSTRUCTION. ALL LONGITUDINAL LANE MARKINGS SHALL BE PROFILED EXTRUDED THERMOPLASTIC EXCEPT LINES ADJACENT TO BIKE LANES WHERE NON-PROFILED MARKINGS SHALL BE USED. PREFORMED THERMOPLASTIC FILM SHALL BE USED FOR ALL TRANSVERSE PAVEMENT BARS AND LEGENDS. REFER TO STANDARD DRAWINGS TM500, TM 503, AND TM530.

TRAFFIC SIGNS

SIGN	QTY	I.D.	SIGN TYPE	SIZE	NOTES	TOTAL SF
940-1	1	R1-1	STOP	30"X30"	INSTALL PER TM200 AND TM687	18.75
940-2	2	D3-1	STREET NAME	6"XL"	INSTALL PER TM200 AND TM687	TBD
940-3	4	OM-3R	OBJECT MARKER	12"X36"	INSTALL PER TM200 AND TM687	15



940-1
MUTCD R1-1
STOP SIGN

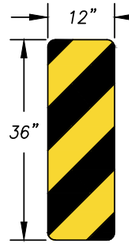


4" STREET NAME LETTERS
2" STREET TYPE LETTERS/BLOCK NUMBERS

940-2
MUTCD D3-1

DOUBLE FACED STREET NAME SIGN
USE GREEN BACKGROUND

STREET NAMES: *R ST, SWEET LN*



940-3
MUTCD OM-3R
OBJECT MARKER

REGISTERED PROFESSIONAL ENGINEER
#62780PE
DIGITALLY SIGNED
OREGON
JULY 13, 2004
DAMIEN GILBERT

Expires: *June 30, 2025*

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SOUTH R STREET SOUTH OF SWEET LANE
COTTAGE GROVE, OREGON
SIGNING & STRIPING

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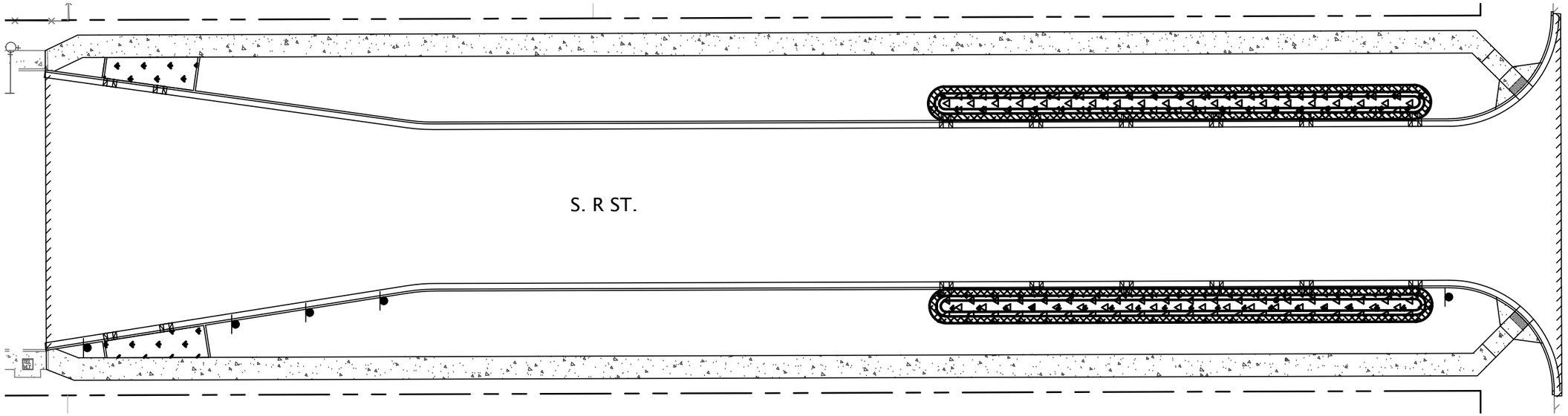
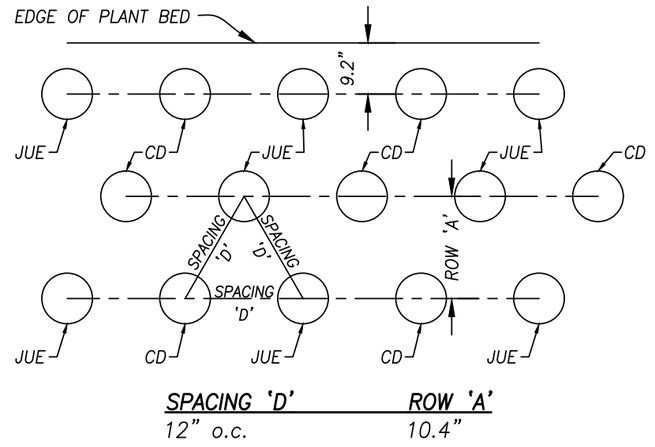


PLANT SCHEDULE

PLANT TYPE	SYMBOL	KEY	BOTANICAL NAME	COMMON NAME	SIZE	APPLICATION RATE	QUANTITY		COMMENTS
							RAIN GARDENS	PLANTER	
GROUND COVERS – 75% GRASSES, SEDGES OR RUSHES		PT–499*	CAREX OBNUPTA	SLOUGH SEDGE	SEED	4 OZ./1,000 SF	1,920 SF	550 SF	100% SEED COVERAGE FOR ZONE A AREAS OF STORMWATER FACILITIES
			SCIRPUS MICROCARPUS	SMALL FRUITED BULRUSH					
			CAREX DENSA	DENSE SEDGE					
			ELEOCHARIS PALUSTRIS	CREEPING SPIKERUSH					
			JUNCUS PATENS	SPREADING RUSH					
GROUND COVERS – 75% GRASSES, SEDGES OR RUSHES		PT–400**	ELYMUS GLAUCUS	BLUE WILDRYE	SEED	1 1B/1,000 SF	1,326 SF	–	100% SEED COVERAGE FOR ZONE B AREAS OF STORMWATER FACILITIES
			HORDEUM BRACHYANTHERUM	MEADOW BARLEY					
			BROMUS CARINATUS	CALIFORNIA BROME					

*PT–499: PRO TIME LAWN SEED – CWS NATIVE WET AREA MIX
**PT–400: PRO TIME LAWN SEED – NATIVE UPLAND MIX



GROUND COVER SPACING DIAGRAM

LANDSCAPE GUIDELINES:

SOIL PREPARATION:
1. FINISHED ELEVATION OF SUBBASE TO BE 12" MINIMUM BELOW FINISHED GRADE.
2. TILL SUBGRADE THOROUGHLY TO A DEPTH OF 8" MINIMUM PRIOR TO PLACEMENT OF SEEDING.
3. PLACE 12" MINIMUM OF TOPSOIL OVER TILLED SUBGRADE. ROTO–TILL AMENDMENTS AND TOPSOIL TO A DEPTH OF 8" MINIMUM PRIOR TO SEEDING.
3. PROVIDE 2" OF NON–FLOATABLE MULCH OR PEA GRAVEL OVER ALL PLANT BEDS.

PLANT MATERIAL:
1. PROVIDE ONLY HEALTHY, FULL PLANT MATERIAL AT SIZES INDICATED.
2. PLANT SUBSTITUTIONS TO BE APPROVED BY ENGINEER.

GROWING MEDIUM:
GROWING MEDIUM SHALL CONSIST OF TWO–THIRDS SOIL AND ONE–THIRD DECOMPOSED ORGANIC MULCH AS DEFINED BELOW.

– SOIL: SOIL SHALL BE SANDY LOAM OR LOAMY SAND WITH ENOUGH SILT AND CLAY PRESENT TO GIVE IT A SMALL AMOUNT OF STABILITY. INDIVIDUAL SAND GRAINS CAN BE SEEN AND FELT READILY. UPON SQUEEZING IN THE HAND WHEN DRY, THE SOIL WILL FALL APART WHEN THE PRESSURE IS RELEASED. UPON SQUEEZING WHEN MOIST, IT SHALL FORM A CAST THAT WILL NOT ONLY HOLD ITS SHAPE WHEN THE PRESSURE IS RELEASED, BUT SHALL WITHSTAND CAREFUL HANDLING WITHOUT BREAKING. THE SOIL COMPONENT SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS.

SIEVE SIZE	PERCENT PASSING
3/8	100
#35	85–100
#100	40–60
#270	10–30

– DECOMPOSED ORGANIC MULCH: MULCH SHALL BE COMPRISED OF RECYCLED ORGANIC MATERIALS THAT HAVE BEEN SORTED, GROUND, AERATED AND AGED FOR A MINIMUM OF ONE YEAR AND WHICH 100% WILL PASS A 7/16–INCH SIEVE. THE MULCH SHALL HAVE A PH BETWEEN 5.5 AND 7.0 AND SHALL HAVE A CARBON TO NITROGEN RATIO BETWEEN 20:1 AND 40:1 WITH A MAXIMUM ELECTRICAL CONDUCTIVITY OF 3 OHMS/CM.

NOTES:
1. A SECOND APPLICATION OF SEEDING MAY BE NECESSARY TO ENSURE PLANT ESTABLISHMENT.
2. SEDGES AND RUSHES SHALL BE PLANTED AT EVERY OTHER PLANT AS SHOWN IN GROUND COVER SPACING DIAGRAM ABOVE.
3. CONTRACTOR SHALL INSTALL LANDSCAPING.
4. PLANT SIZES AND QUANTITIES ARE INTENDED TO MEET CITY STORMWATER REQUIREMENTS. NO CHANGES ARE PERMITTED WITHOUT PRIOR APPROVAL.

GRAPHIC SCALE
0 30 60

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SOIL STOCKPILES

1. SOIL STOCKPILES DURING WET WEATHER SEASON (OCT. 15TH – APR. 30TH) SHALL BE COVERED WITH POLYETHYLENE PLASTIC SHEETING (6 MIL OR THICKER).
2. COVERING SHALL BE INSTALLED AND MAINTAINED BY APPROVED METHODS. ALL SEAMS SHALL BE OVERLAPPED 12–INCHES AND WEIGHTED DOWN ALONG THE FULL LENGTH.
3. SOIL MAY NOT BE STOCKPILED WITHIN TREE CRITICAL ROOT ZONES, IN DRAINAGE WAYS, STREETS, STREET RIGHT–OF–WAYS, OR DRIVEWAYS THAT DRAIN TO THE STREET.

WET WEATHER REQUIREMENTS (OCT. 15TH - APR. 30TH)

1. GRAVEL CONSTRUCTION SITE ENTRANCES TO PROTECT ADJOINING ROADS AND WATERWAYS FROM VEHICLE TRACKING OFF OF THE SITE.
2. PROTECT ALL STORMWATER FACILITIES, WATER FEATURES AND NATURAL AREAS.
3. SEDIMENT, SOIL, OR CONSTRUCTION–RELATED MATERIAL MUST BE REMOVED IMMEDIATELY FROM RIGHT–OF–WAY, ADJOINING PROPERTY AND NATURAL RESOURCES.

SAW CUTTING

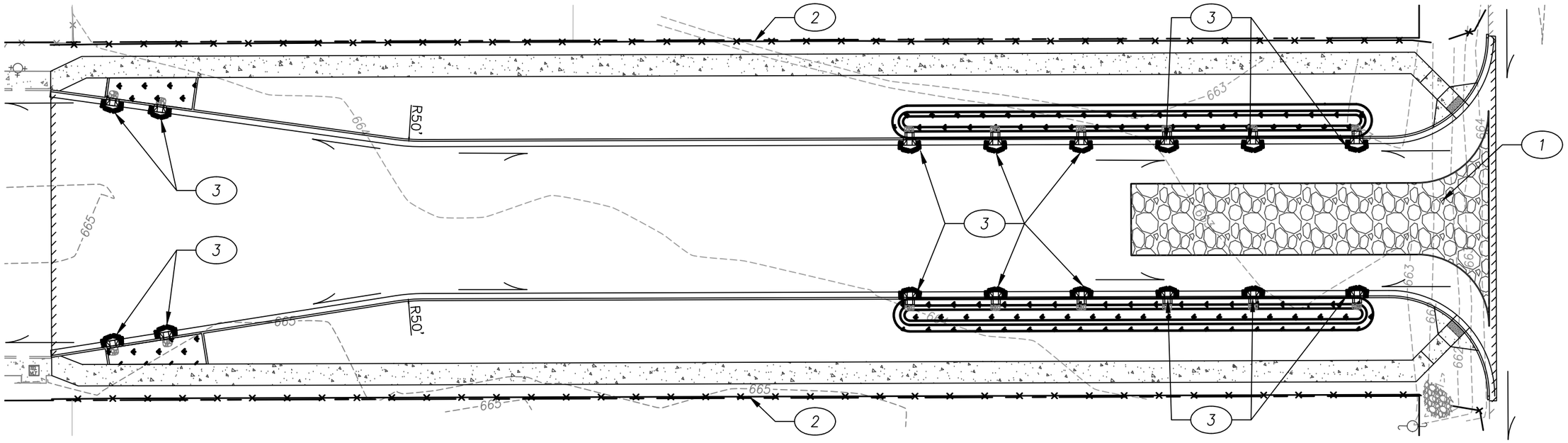
1. DO NOT ALLOW SAW CUT SLURRY AND/OR RUNOFF TO ENTER STORM DRAINS OR WATER COURSES.
2. RESCHEDULE SAW CUTTING IF RAINING OR RAIN IS IN THE FORECAST.
3. PROTECT STORM INLETS PRIOR TO START OF WORK
4. ALL WASTE GENERATED FROM SAW CUTTING SHALL BE VACUUMED IMMEDIATELY BEHIND THE SAW CUTTING OPERATION. DO NOT ALLOW SAW CUT SLURRY TO FLOW ACROSS THE PAVEMENT AND IT SHOULD NOT BE LEFT ON THE SURFACE OF THE PAVEMENT.
5. DISPOSAL OF SAW CUTTING WASTE APPROPRIATELY.

CONSTRUCTION NOTES

1. CONSTRUCT AGGREGATE CONSTRUCTION EXIT/ENTRANCE PER ODOT STD. DWG. RD1000.
2. CONSTRUCT SEDIMENT FENCING, BARK BERM OR FILTER SOCK SEDIMENT BARRIER. SEE ODOT STD. DWGS. RD1040, AND RD1031.
3. INSTALL TYPE 7 INLET PROTECTION FOR CURB CUT SPILLWAYS PER ODOT STD. DWG. RD1010.

GRAPHIC SCALE

0 30 60



EROSION & SEDIMENT CONTROL LEGEND

- LIMITS OF DISTURBANCE
- SEDIMENT FENCE
- CONSTRUCTION ENTRANCE
- DIRECTION OF FLOW
- BIO–BAG SEDIMENT BARRIER

STANDARD EROSION CONTROL NOTES

1. PRIOR TO ANY GROUND DISTURBING ACTIVITY ON THE SITE, AN INITIAL INSPECTION BY CITY STAFF IS REQUIRED. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHOULD BE IN PLACE PRIOR TO THE INSPECTOR ARRIVING. CALL (541) 942–3340 TO SCHEDULE YOUR INSPECTION.
2. EPSC MEASURES MUST BE CONSTRUCTED IN CONJUNCTION WITH, AND PRIOR TO, ALL CLEARING AND GRADING ACTIVITIES AND IN A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER QUALITY STANDARDS.
3. EPSC MEASURES SHOWN ON THE PLANS ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE EPSC MEASURES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT–LADEN WATER DOES NOT LEAVE THE SITE.
4. EPSC MEASURES SHALL BE INSPECTED DAILY BY THE PERMIT HOLDER, AND MAINTAINED AS NECESSARY TO ENSURE THEIR FUNCTION.
5. STABILIZED GRAVEL CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
6. EPSC MEASURES SHALL BE KEPT IN PLACE UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
7. ALL EXPOSED SOIL MUST BE PERMANENTLY STABILIZED AGAINST WIND AND WATER EROSION BEFORE THE EPSC PERMIT CAN BE CLOSED. ONCE THE SITE IS STABILIZED, SCHEDULE A FINAL INSPECTION BY CALLING
8. (541) 942–3340. PERMANENT SOIL STABILIZATION INCLUDES LANDSCAPING, SEEDING, OR COVERING EXPOSED SOIL WITH A MINIMUM 2–INCH LAYER OF BARK OR WOOD CHIPS. FOR RESIDENTIAL CONSTRUCTION, WHERE AREAS OF THE LOT HAVE A FINAL GRADE LESS THAN 10% SLOPE, A 5–FOOT WIDE STRIP OF PERIMETER STABILIZATION MAY BE SUBSTITUTED IN LIEU OF COMPLETE SITE STABILIZATION.

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