



MULTNOMAH COUNTY, OREGON

DEPARTMENT OF COMMUNITY SERVICES LAND USE & TRANSPORTATION PROGRAM RIGHT-OF-WAY PERMIT SECTION 1620 SE 190TH AVENUE PORTLAND, OREGON 97233 503-988-3582 - FAX: 503-988-3389 ROW.Permits@multco.us	APPLICATION FOR A PERMIT TO USE PUBLIC ROAD RIGHT OF WAY UNDER THE JURISDICTION OF MULTNOMAH COUNTY DATE STARTED: _____ FINAL INSPECTION: _____ APPROVED BY: _____ YES _____ NO REMARKS: _____	(COUNTY TO FILL OUT THIS SECTION) Permit No. <u>CONST-2023-0002</u> District: <u>N/A</u> County Maintained: <u>YES</u> Application Fee: <u>N/A</u> Deposit: <u>\$3000 (PAID)</u> Check No.: <u>N/A</u> Ins. Req'd: <u>YES</u>
FOR APPLICANT: (Please print) Name: <u>Portland Water Bureau</u> Address: <u>1120 SW 5th Avenue, Portland OR 97204</u> E-mail Address: <u>robert.fraley@portlandoregon.gov</u> Phone/Fax: <u>503-319-9207</u> Contact Person: <u>Robert Fraley</u>		

ROADS AND LOCATIONS COVERED BY THIS PERMIT:

Road	Specific Location	Side of Road	Distance from		Buried Cable or Pipe	
			Center Line	R/W Line	Depth	Size & Kind
SE Carpenter Lane	Intersection of Carpenter & Cottrell east	N/S			3' +	Gas/12" Water/PGE
SE Cottrell Road	Intersection of Dodge Park south to Carpenter Ln	E/W				
SE Dodge Park Blvd	Intersection	N/S				

DATE: 05FEB2024 REV 1: ADDITIONAL SHRUBS AND TREES TO BE REMOVED AS SHOWN IN THE APPROVED SITE PLAN DATED 05FEB2024
DATE: 27FEB2024 REV 2: ADDITIONAL SHRUBS AND TREES TO BE REMOVED AS SHOWN IN THE APPROVED SITE PLAN DATED 27FEB2024

GENERAL APPLICATION/PERMIT TERMS:

- Upon approval of this Application by Multnomah County by the indicated signature below, this page shall become the first page of the Permit and the Applicant shall become the "Permittee."
- Permittee must notify Multnomah County at 503-988-3582, at least one business day (24 hours) before commencing work under this permit.
- Except as allowed under the Multnomah County Road Rules Section 18, Subsection 18.250, Permittee must complete any authorized demolition, installation, construction, placement, or similar work activities in the road right-of-way not later than 120 days after Permit Effective Date. Any extension of time beyond that period is subject to the sole discretion of Multnomah County.
- Any Permit issued pursuant to this Application shall be applicable only to the specific public road right(s)-of-way under the Jurisdiction of Multnomah County authorized and identified herein. Applicant must obtain an additional permit or consent from Multnomah County for the use of any other public road right(s)-of-way under the County's Jurisdiction.
- Applicant must obtain the consent from the appropriate authority for the use of any roads, highways, and streets that are not under Multnomah County's Jurisdiction.
- This Permit shall not be effective until a construction plan; specifications or other similar documentation has been reviewed and approved by the County Engineer or designate and incorporated into the Permit.
- This Permit includes the "Permit Provisions" attached hereto and which are incorporated by this reference.
(Authority: ORS 374.305-ORS 374.330; MCC Chapters 27 and 29)

APPLICANT: By the authorized signature below, Applicant (Permittee) accepts and agrees to all the requirements, terms, conditions and provisions of this Permit. Authorized Signature: <u>Robert Fraley</u> Print Name: <u>Robert Fraley</u> Title: <u>Principal Program Analyst</u> Date of Application: <u>10/27/2023</u>	MULTNOMAH COUNTY DEPARTMENT OF COMMUNITY SERVICES: Permit Approved By: <u>RICK BUEN</u> Print Name: <u>RICK BUEN</u> Title: <u>ENGINEER 2</u> Permit Effective Date: <u>01/16/2024 - 07/15/2024</u>
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RIGHT-OF-WAY USE PERMIT PROVISIONS

1. (A) This Permit is issued by Multnomah County as a jurisdictional authority (hereinafter “County”) over the Right-of- Way described on Page 1 of this Permit (the “Right-of-Way”) to the Permittee (County and Permittee hereinafter collectively referred to as the “Parties”) and controls all aspects of the Right-of-Way Use(s) set forth on Page 1, and as further provided in and subject to:
 1. If applicable, **Exhibit A**, which shall consist of any plans, specifications, drawings, or other design documents (collectively referred to as the “**Plans**”) attached hereto, or as the Parties agree in writing to amend or revise said **Exhibit A** and which shall not be changed, altered, or modified without first obtaining the written consent of the County Engineer or the County Engineer’s designate;
 2. If applicable, the Miscellaneous Provisions in Section 15.A. or as renumbered in this document;
 3. To the extent applicable, **Exhibit A** is hereby incorporated as a part of this Permit.
- (B) This Permit does not authorize any activity on privately owned property. Should Permittee’s activities encroach beyond the boundaries of the Right-of-Way covered under this Permit or otherwise exceed the jurisdictional authority of the County; Permittee shall obtain written consent from any owners of property abutting the Right-of-Way before beginning any work under this Permit.
- (C) This Permit is subject to ORS Chapter 374 and incorporates the following rules adopted by Multnomah County pursuant to Multnomah County Code Chapters 27 and 29:
 1. **The Multnomah County Road Rules (MCRR)**, dated March 27, 2018 or as the MCRR shall be amended, and
 2. **The Multnomah County Design and Construction Manual (DCM)**, and as the DCM shall be amended.
- (D) For purposes of this Permit, the term “Permittee” shall refer to all parties acting under this Permit, including the property owner, the developer (if different than the owner) and any contractor responsible for or performing the work authorized under this Permit. All such parties acting through authorized representatives with the authority to bind each party shall sign this Permit. No action or work of any kind may proceed under this Permit without the binding signatures of all the parties as Permittees. The use of the term “Permittee” or “Permittees” in this Permit shall be used interchangeably and shall not be intended to limit the number of parties that are Permittees on this Permit.
2. (A) The County contact to coordinate work activities on the Right-of-Way shall be: phone: [\(503\) 988-3582](tel:5039883582), e-mail: ROW.Permits@multco.us, or as listed in **Miscellaneous Provisions**.
- (B) Permittee contact person shall be listed on the cover page or under the Miscellaneous Provisions.
3. (A) Prior to beginning any work or activities under this Permit, the Permittee shall confirm in writing to the County that all Permittees have obtained a commercial general liability insurance policy that provides: (i) for a combined single limit of not less than \$1,000,000 per each incident or occurrence, and with an annual aggregate limit of not less than \$2,000,000 ; (ii) for extended reporting period coverage for claims made within two years after the activities, work or associated work authorized under this Permit is completed; (iii) for the County, its officers, employees and agents to be named as additional named insureds for all activities, work or associated work being authorized under this Permit. This Permit is automatically revoked without further action if the insurance is permitted to lapse, is canceled, or for any other reason becomes inoperative. Insurance policy limits quoted herein are minimums set for 2014 and shall be subject to County review and adjustment annually.
- (B) Alternatively, if Permittee is self-insured for the risks for which insurance is required under this Permit, and if Permittee’s self-insurance verification is submitted to the County, Permittee shall not be required to procure insurance as required under Subsection 3(A). For the duration of this Permit, Permittee shall annually provide written verification of self-insurance to the County. This requirement may be waived for governmental entities who have previously provided their verification of self-insurance.

4. (A) To the extent allowed under the Oregon Constitution and the Oregon Tort Claims Act, the Permittee agrees to defend, indemnify, and hold harmless the County, its officers, employees, and agents (the "Indemnitees") from all claims, demands, suits, liabilities, damages, losses, costs, or expenses including, but not limited to, attorney's fees:

1. that the Indemnitees may sustain or incur on account of any damage to or destruction of any property that the County may own or in which it may have an interest;
2. on account of any damage to or destruction of any property belonging to any person, firm or corporation; and
3. on account of any damage resulting from injury to or death of any person or persons,

which arise out of or are in any way connected with the activities conducted or work performed under this Permit by the Permittees, their officers, employees, contractors, agents, or invitees.

(B) To the extent allowed under the Oregon Constitution and the Oregon Tort Claims Act, the Permittees agree to defend, indemnify, and hold harmless the Indemnitees from all claims, demands, suits, liabilities, damages, losses, costs, or expenses which arise out of or are in any way connected with the use, generation, manufacture, storage, discharge, release, disposal, transportation, or possession of Hazardous Materials by the Permittee, its, employees, contractors, agents, lessees, or invitees at any time during the term of this Permit at the Permit Site. "Hazardous Materials" means:

(a) any petroleum, including crude oil or any fraction thereof, natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel, or any mixture thereof, flammable substances, explosives, radioactive materials, hazardous wastes or substances, toxic wastes, wastes or substances or any other materials or pollutants which:

- (1) pose a hazard to the Permit Site or to persons on or about the Permit Site, or
- (2) cause the Permit Site to be in violation of any federal, state, or local law, ordinance, regulation, code, or rule relating to Hazardous Materials;

(b) asbestos in any form which is or could become friable, urea formaldehyde foam insulation, transformers, or other equipment which contain dielectric fluid containing levels of polychlorinated biphenyls in excess of fifty (50) parts per million;

(c) any chemical, material, or substance defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "extremely hazardous waste," "restricted hazardous waste," "waste" or "toxic substances," or words of similar import under any applicable local, state, or federal law or under the regulations adopted or publications promulgated pursuant thereto including, but not limited to, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 U.S.C. § 9601, et seq.; the Hazardous Materials Transportation Act, as amended, 49 U.S.C. § 1801, et seq.; the Resource Conservation and Recovery Act, as amended, 42 U.S.C. § 6901, et seq.; the Federal Water Pollution Control Act, as amended, 33 U.S.C. § 1251, et seq.; and

(d) any other chemical, material or substance, exposure to which is prohibited, limited, or regulated by any governmental authority or may or could pose a hazard to the health and safety of the owners and/or occupants of property adjacent to or surrounding the Permit Site.

(C) The Permittees obligations under Section 3 and Section 4 herein, shall survive the termination of this Permit to the fullest extent as allowed or recognized under applicable law, statutes, codes or regulations.

5. Traffic control is the responsibility of the Permittee and shall be performed in accordance with the Manual of Uniform Traffic Control Devices and Oregon Supplements. The Permittee shall submit a copy of the traffic control plan for County review and approval not less than five working days prior to the date the activities or work authorized under this Permit are scheduled to begin. Work or activities shall not begin until written approval of the traffic control plan is obtained from the County Engineer or the County Engineer's designate.
6. The Permittee shall provide the name and telephone contact number for its Project inspector and a 24-hour emergency telephone number(s) for its contractor prior to beginning activities or work under this Permit.

7. ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center (the “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. The telephone number for the Center is (503) 232-1987.
8. No modification shall be made to any fixture or installation as shown on Exhibit A and authorized under this Permit without prior approval from the County.
9. The Permittee shall restore the Right of Way to an equal or better condition than existed prior to the activities or work authorized under this Permit. The Permittee is responsible for quality control of all demolition or new construction made to the Right of Way. The County may perform spot inspections to monitor quality control. The Permittee shall correct all construction work that does not conform to County standards. The County may require additional work to return the Right of Way to “as good” or “better” condition.
10. The Permittee shall be in compliance with all federal, interstate, state, regional, and local laws, regulations, rules, and ordinances, pertaining to all the activities or work performed under this Permit including, but not limited to, obtaining all necessary and applicable construction and erosion control permits and approvals prior to beginning the activities or work authorized under this Permit and compliance with all applicable business licenses, OSHA rules and regulations.
11. County shall have the right, without notice, at any time including during any of Permittee’s activities or work of any kind in the Right of Way, to enter and occupy the entire or any part of the Right of Way for the purpose of inspecting, maintaining, repairing, renewing, replacing or reconstructing the Right of Way, or any replacement facility thereto as County in its sole discretion shall deem necessary and appropriate.
12. County’s activities described in Section 11 may require Permittee or its officers, employees, contractors, agents, vendors, lessees, sub-lessees or invitees (collectively “Permittee Parties”) to remove any fixtures, installations or personal property including but not limited to , vehicles, machines, tools and equipment from the Right of Way. Upon entry, County shall, without liability to Permittee Parties, have the right to remove any such fixtures, installations or personal property from the Right of Way as may be necessary to accomplish the required work. County shall have no obligation to restore or repair any improvements removed or damaged in the performance of County’s work. Permittee Parties agree that County shall have no obligation to restore the Right of Way or Permittee Parties’ improvements and County shall have no liability to Permittee Parties for any disruption of Permittee Parties’ business, for loss of Permittee Parties’ real or personal property, for Permittee Parties’ lost profits or for any other loss incurred by Permittee Parties as a result of such entry or as a result of Permittee Parties being required to vacate the Right of Way pursuant to the terms of this Section 12.
13. Either Subsection 13 (A) or (B) shall be applicable depending on the location.

(A) For Certain Utility Work in Roads in Unincorporated Areas: If this Permit has been issued in connection with work done in the public road that is authorized pursuant to the provisions of ORS 758.010(1) “...to construct, maintain and operate its water, gas, electric or communication service lines, fixtures and other facilities...” along said public road; the County reserves all the rights under ORS 758.010(2) to direct the Permittee to relocate any such fixture, line or facility in the subject public road.

(B) For Other Uses and For Uses in Roads in Cities: The County reserves the right to **revoke this Permit at any time** in the event the County determines the permitted work or activities, including any fixtures, installations or personal properties in the Right of Way; are in conflict with a County improvement project; public need requires it, or the Permittee fails to comply with the conditions of this Permit. No expenditure of money, lapse of time, or other act or thing shall operate as an estoppel against the County or be held to give the Permittee any vested or other right. Upon revocation of this Permit, the Permittee shall within 30 days of receiving notification, remove, relocate, or abandon (if consented to by the County), all fixtures, installations or personal property in the Right of Way and restore the Right of Way as directed by, and to the satisfaction of, the County.

14. Consistent with ORS 374.309:

(A) The Permittee shall bear the duties imposed under ORS 374.315 to ORS 374.320 with respect to maintenance, repair or removal, as applicable to the type of Project authorized under this Permit, and such duties shall include any work on adjacent property affected by the permitted work

(B) The Permittee shall complete the work in a timely manner to the satisfaction of the County and as may be described elsewhere in this Permit. Any substantial change in scope of work requiring further County resources will result in additional fees in accordance with the adopted fee schedule and the MCRR. Any additional work required by the Permittee to correct or repair damages caused by the Permittee's activities will be subject to the same time limits as the original work unless the County grants additional time.

(C) As provided in the MCRR Subsections 18.250 D. and 18.700, the County may require surety bonds as performance and maintenance guarantees if deemed necessary by the County Engineer for the work proposed under this Permit.

(D) As provided in the MCRR Subsection 18.135: "The time limits provided in a permit to complete construction, placement, installation or similar activities shall be controlling; if the authorized activities are not completed within the specified time the permit shall expire. A permit may be extended at the discretion of the County Engineer for good cause shown upon timely written request of the permittee prior to the original expiration date and the payment of any applicable extension fee as established by the Board of County Commissioners." The County may require a schedule for work completion and assess damages for delays. Damages resulting from delays may include but are not limited to impacts to County capital projects, community impacts, and additional County resources.

(E) As provided by MCRR Subsection 18.475 B., in the event the Permittee fails to perform and the County incurs reasonable and necessary expense to correct, mitigate, or abate damages related to the Permit, the Permittee shall reimburse the County within 10 days of receiving a bill.

(F) As provided by MCRR Subsection 18.450, the County reserves the right to stop the activities or work performed under this Permit for failure to comply. All costs associated with activities or work stoppage or revocation as provided herein are the responsibility of the Permittee, and all costs shall be borne by the Permittee.

(G) As provided in the MCRR Subsection 18.130: "A permit may be revoked at any time by mutual consent; for failure of the applicant to abide by the terms and conditions of the permit as determined in the sole discretion of the County Engineer; to protect public safety or to serve the best public interest as determined by the County Engineer; or by the operation of law."

15. (A) Miscellaneous Provisions.

PWB TO VERIFY ROW WIDTH/ALIGNMENT BEFORE REMOVAL OF VEGETATIONS WITHIN THE ROW. PWB IS RESPONSIBLE TO ACQUIRING PERMISSIONS FROM THE RESIDENTS FOR ANY PORTION OF THE VEGETATIONS TO BE REMOVED THAT ARE OUTSIDE THE COUNTY ROW.

(B) Permittee's Initials for Signature: ^{RLF}_____

(Add any specific special terms or conditions unique to the Permit Site here. Permittee must initial here to indicate acceptance of the additional special terms and conditions. Add additional sheets as necessary.)



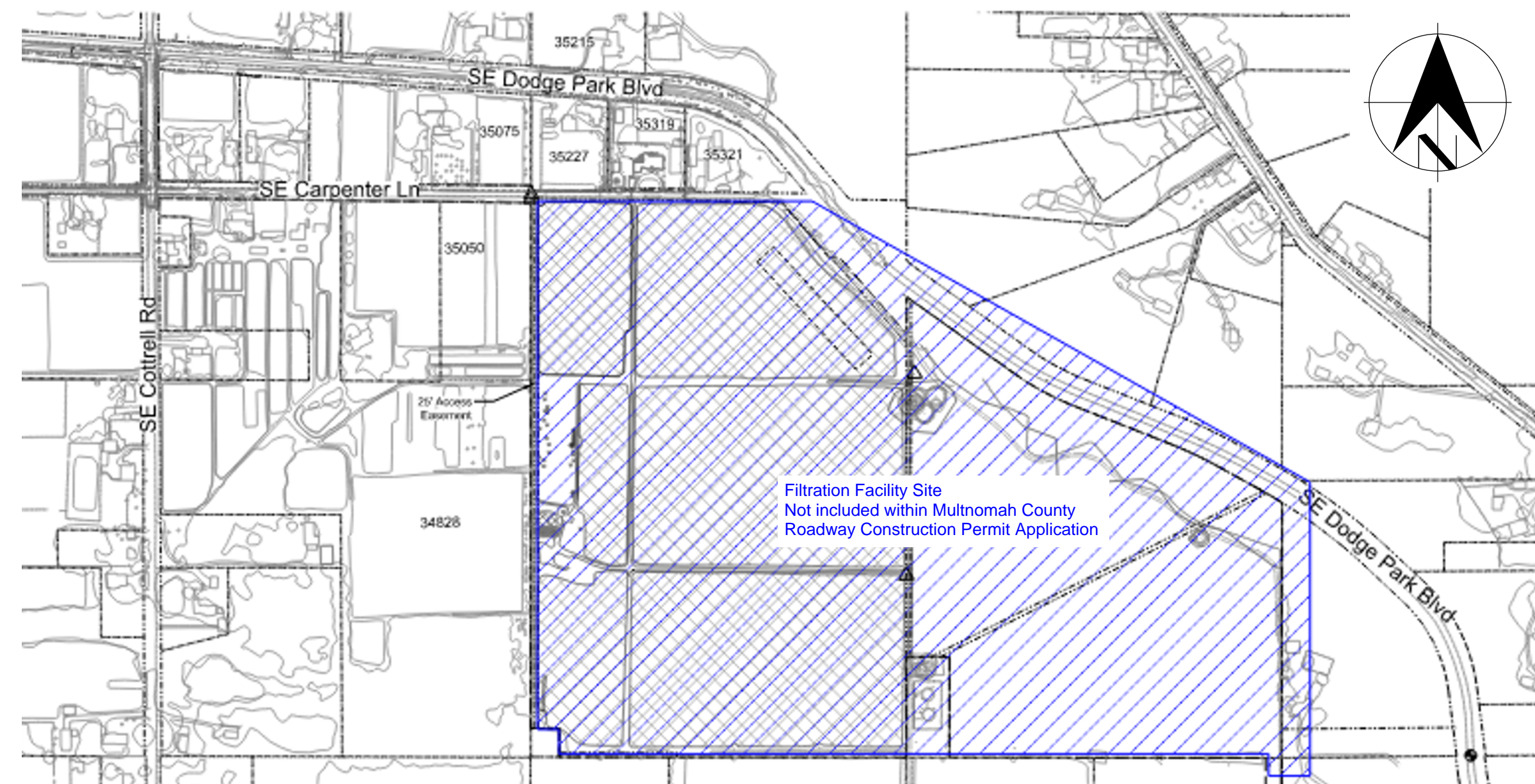
REVIEWED	
MULTNOMAH COUNTY - DCS	
TRANSPORTATION DIVISION	
	A. PROCEED
x	B. PROCEED AS NOTED
	C. REVISE AND RESUBMIT
By: <i>bucen</i>	Date: 16JAN2024

Portland Water Bureau

Bull Run Filtration Facility

Construction Documents - October 2023

This drawing set includes select drawings for the Bull Run Filtration Facility project, compiled for construction permit application for Multnomah County within the Right-of-Way.



Vicinity Map
No Scale

Project Manager  10/19/2023
Mark Graham, PE Date

Project Engineer  10/19/2023
Judi Daniel Grounds, PE Date



10/26/2023 10:26/2023 User: stanpw11cs03\$ GEN-G-002A.dgn

Drawing Number Drawing Title

GENERAL

GEN-G-001 Cover Sheet
GEN-G-002A List of Drawings

CIVIL

GEN-C-001 Symbols and Notes
GEN-C-301A Existing Conditions and Demolition Plan Enlarged Cottrell Rd and Carpenter Ln
GEN-C-903 Grading & Paving - Details - 3
GEN-C-904 Grading & Paving - Details - 4
GEN-C-907 Grading & Paving - Details - 7
GEN-C-908 Grading & Paving - Details - 8
GEN-C-915 Pipes - Details - 1
GEN-C-922 Storm - Details - 4
02-C-301 Grading & Paving - Grid 00
02-C-302 Grading & Paving - Grid 01
02-C-303 Grading & Paving - Grid 02
02-C-304 Grading & Paving - Grid 03
02-C-305 Grading & Paving - Grid 04
02-C-306 Grading & Paving - Grid 05
02-C-400 Cottrell Rd - Plan and Profile - Sta 30+00 to 34+50
02-C-401 Cottrell Rd - Plan and Profile - Sta 34+50 to 35+30.30
02-C-402 Carpenter Ln - Plan and Profile - Sta 9+47 to 13+97
02-C-403 Carpenter Ln - Plan and Profile - Sta 13+97 to 18+47
02-C-404 Carpenter Ln - Plan and Profile - Sta 18+47 to 22+97
02-C-405 Carpenter Ln - Plan and Profile - Sta 22+97 to 27+47
02-C-406 Carpenter Ln - Plan and Profile - Sta 27+47 to 28+98
02-C-441 Retaining Walls - Plan and Profile - 4
02-C-901 Roadway Typical Sections - 1
02-C-902 Roadway Typical Sections - 2

LANDSCAPE

GEN-L-001 Symbols
GEN-L-101 Planting Schedule - 1
GEN-L-102 Planting Schedule - 2
06-L-301 Overall Planting Plan
06-L-301A Planting - Grid 00
06-L-302 Planting - Grid 01
06-L-303 Planting - Grid 02
06-L-304 Planting - Grid 03
06-L-305 Planting - Grid 04
06-L-306 Planting - Grid 05

STRUCTURAL

02-S-901 Retaining Wall - Details - 1

THESE SHEETS REVIEWED ONLY FOR
CONST PERMIT NO. ROW-CONST-2023-0002

NOTE:

Suffix "A" represents a unique drawing list only for Multnomah County
Road Construction Permit



1	10/26/23	Multnomah County Construction Permit		MRG
No	Date	Description		Appd
Revision				
Survey				



Designed By	CJ	Design Mgr	LSH
Drawn By	RB	Const Mgr	TG
Checked By	CE/DS	Const Supvr	RM
Project Mgr	MRG	Date	

Warning
0 1/2 1
If this bar does not measure 1" then the drawing is not to scale



Bull Run Filtration Facility
General
List of Drawings

SAP Project No	W02229
1/4 Section	
3765 / 3766	
Sheet No	GEN-G-002A
2.01 of 2410	

David W. Peters, Engineering Manager, PE No 16683

Date

EXISTING	THIS CONTRACT	
		SPOT ELEVATION
		CONTOUR LINE
		SLOPE
		CATCH BASIN OR INLET
		SIGN
		FIRE HYDRANT
		UTILITY POLE
		LIGHT POLE
		BENCH MARK
		SURVEY CONTROL POINT OR POINT OF INTERSECTION
		BRUSH/TREE LINE
		TREE
		PROPERTY LINE
		CENTER LINE, BUILDING, ROAD, ETC.
		STAGING OR WORK AREA LIMITS
		STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES
		DEMOLITION
		STRUCTURE, BUILDING OR FACILITY
		ASPHALT CONCRETE PAVEMENT
		GRAVEL SURFACING
		CONCRETE PAVEMENT
		CURB
		CURB AND GUTTER
		SINGLE SWING GATE
		DOUBLE SWING GATE
		SLIDING GATE
		GUARD RAIL
		FENCE
		ARCHITECTURAL FENCE
		WIRE FENCE
		CULVERT
		POWER POLE
		SANITARY MAINTENANCE HOLE
		STORM MAINTENANCE HOLE

Original survey for Filtration Facility property conducted in July 2020. Supplemental survey performed August - November 2021.

Horizontal Control Basis:
Control network established in 2010 for the Water Bureau's Lusted Hill facility, using his scale factor control is on State Plane Coords - North Zone, NAD83(91), international feet, with a combined scale factor of 0.999903260, resulting in a coordinate system that reflects true ground distances then aligned to past projects in the area.

Vertical control is based on the City of Portland vertical datum, and was established by holding City benchmark BM 4263 record elevation of 654.716'.

Site North is 1.6 degrees CCW from true north
Facility North is 41 degrees CCW from true north

General

1. The Contractor shall take all precautionary measures necessary to protect existing improvements, which are to remain in place from damage. All improvements damaged by the Contractor's operations shall be expeditiously repaired or reconstructed at the Contractor's expense without additional compensation.
2. All building coordinates are to be outside of wall of building and are called out according to true north.
3. For construction waste management. Reference spec 013545.
4. Contractor shall comply with Owner's Inadvertent Discovery Plan for the site relating to the discovery of cultural artifacts. Notify the owner immediately if any cultural artifacts are discovered and isolate an area 100' surrounding the discovery.

Utilities

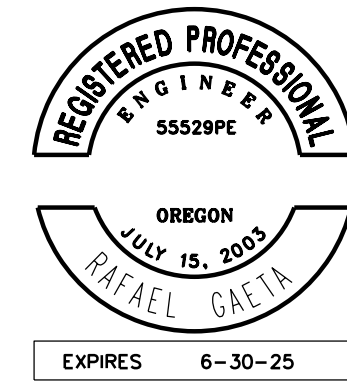
1. Prior to the start of construction, the Contractor shall locate and pothole all existing utilities in and around the areas of construction to verify locations.
2. The Contractor shall pothole proposed connections prior to submittal of shop drawings for the connections. Verify location of connection, size, material, pipe roundness, depth and clearance from obstructions.
3. The Contractor shall protect all remaining existing utilities.
4. Locations of underground utilities shown on the drawings were obtained from available records. The Contractor shall verify all locations and elevations and shall take all precautionary measures necessary to protect utility lines whether shown or not shown.
5. Prior to any connection to an existing utility, the Contractor shall coordinate with the utility owner.
6. Prior to any excavation in the vicinity of any existing facilities, including all water, sewer, storm drain, gas, petroleum products, or other pipelines; all buried electric power, communications, or television cables; all traffic signal and street lighting facilities; and all roadway, state highway, and railroad rights-of-way, the Contractor shall notify the respective authorities representing the owners or agencies responsible for such facilities not less than 2 days nor more than 7 days prior to excavation so that a representative of said owners or agencies can be present during such work if they so desire.
7. Attention: Oregon Law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0011 through OAR 952-001-0090. You may obtain copies of the rules by calling the center. The center business number is 503-232-1987. Excavators are required to notify the center at least 2 business days, but no more than 10 business days, before commencing at excavation. To comply call 811 or 1-800-332-2344.
8. All work is to be constructed in accordance with the Oregon administrative rule (OAR), Chapter 33. When crossing under a sanitary sewer with less than 1-1/2 feet clearance, notify the owner's representative.

Piping

1. The Contractor shall comply with the state department of health services criteria for the separation of water mains and sanitary sewers.
2. The Contractor shall provide a minimum cover as indicated by the following list:
 - Use 72" min cover for the proposed 72" water and 66" water.
 - Use 48" min cover for water pipes 16" in dia to 42" in dia
 - Use 42" min cover for water pipes under 12" dia
 - Use 36" min cover for all other utility lines, except sanitary
 - Use 8 feet min. cover for sanitary lines.
3. Straight slopes shall be maintained between invert elevations shown or specified.
4. The Contractor shall adjust all valve boxes, pull boxes and maintenance holes to finished grade unless otherwise shown or specified. Maintenance holes in open fields shall be set one foot above grade. Approximate rim elevations are shown on drawings.
5. All pipe trenching and backfill shall be in accordance with Detail P-815.
6. The Contractor shall provide two flexible sleeve type couplings with restrained joints for each pipe penetrating a structure. Pipe to structure connections should be coordinated between Civil, Structural, and Geotechnical Engineers. Sleeves are not required when concrete encased. Spacing between couplings should vary with pipe diameter to provide proper length for differential settlement. All piping shall be restrained joint design unless indicated otherwise.
7. Couplings and restrained joints shall be provided whether shown on the drawings or not. Steel pipe restrained harness sets shall be provided in accordance with AWWA M-11. All other pipes, couplings and restrained joints shall be approved by the owners representative. All restrained joints shall be in accordance with the pipe manufacturers' recommendations.
8. All piping shall have restrained joints unless used for gravity flow. All piping shown restrained joint design shall have restrained sleeve couplings where flexible sleeves are required per notes 17 and 18.

Corrosion Control

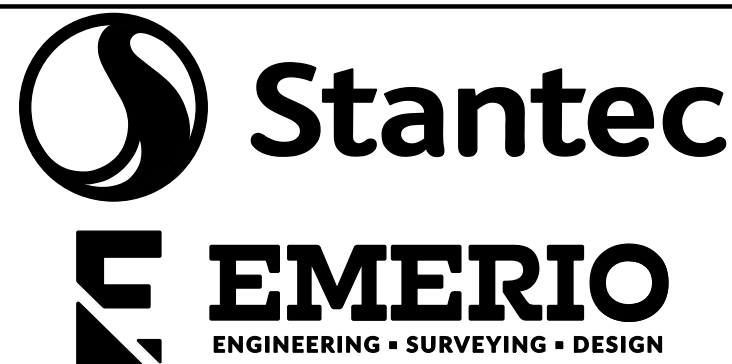
1. See cathodic protection drawings.



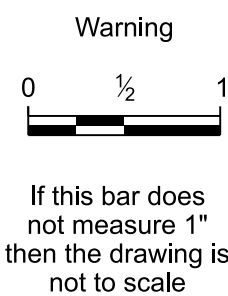
User: stanpw11cs04\$ W02229 FF GEN C 001.dan

10/27/2023

1	10/27/23	Multnomah County Construction Permit		MRG
No	Date	Description		Appd
Revision				
Survey				



Designed By	RG	Design Mgr	HSL
Drawn By	DJD	Const Mgr	TS
Checked By	LCS	Const Supvr	BN
Project Mgr	HRG	Date	10/19/23



David W. Peters, Engineering Manager, PE No 16683



Civil

Symbols and Notes

1/4 Section
3765 / 3766
Sheet No
GEN-C-001
30 2410
of



Original survey for Filtration Facility property conducted in July 2020. Supplemental survey performed August - November 2021.

Horizontal Control Basis:
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Vertical control is based on the City of Portland vertical datum, and was established by holding City benchmark BM 4283 record elevation of 654.716'.

Site North is 1.6 degrees CCW from true north
Facility North is 41 degrees CCW from true north

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Limits of Construction



Tree Removal



Survey Control Point



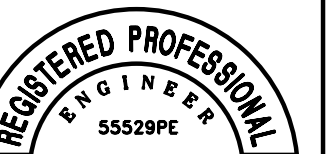
Survey Benchmark



Tree Vegetation

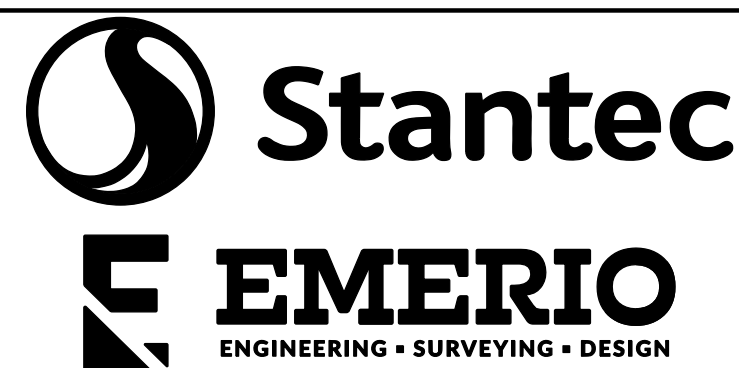
1. Existing Facilities and utilities shown are based on survey information and available record drawings. Contractor is responsible for verifying locations of all existing utilities to remain, whether shown on the drawing or not.
2. Demolition drawings are not intended to be all inclusive, contractor shall demolish site work items as required to perform the work to be completed. Notify Owner's Representative prior to demolishing any element not shown.
3. There are existing easements on site. The contractor shall comply with all requirements of those easements and shall protect all existing associated infrastructure in place and in service unless otherwise indicated or approved in writing by Owner's Representative.
4. No machinery, grading, storage or other construction activity allowed within SEC zones.

1. Remove Existing Vegetation
2. Remove Existing Tree
3. Remove Existing Fence
4. Install Tree Protection Fence, See Detail 1 on Sheet 00-C-903
5. Protect survey monument. If adjusted, reset and re-record the monument with Multnomah County.



PIRES 6-30-25

1	10/27/23	Multnomah County Construction Permit		MRG
No	Date	Description		Appd
Revision				
Survey				



Designed By	RG	Design Mgr
Drawn By	DJD	Const Mgr
Checked By	LCS	Const Supvr
Project Mgr	MRG	Date 10/19/23

Warning

0 $\frac{1}{2}$ 1

If this bar does not measure 1" then the drawing is not to scale



David W. Peters, Engineering Manager, PE No 16683

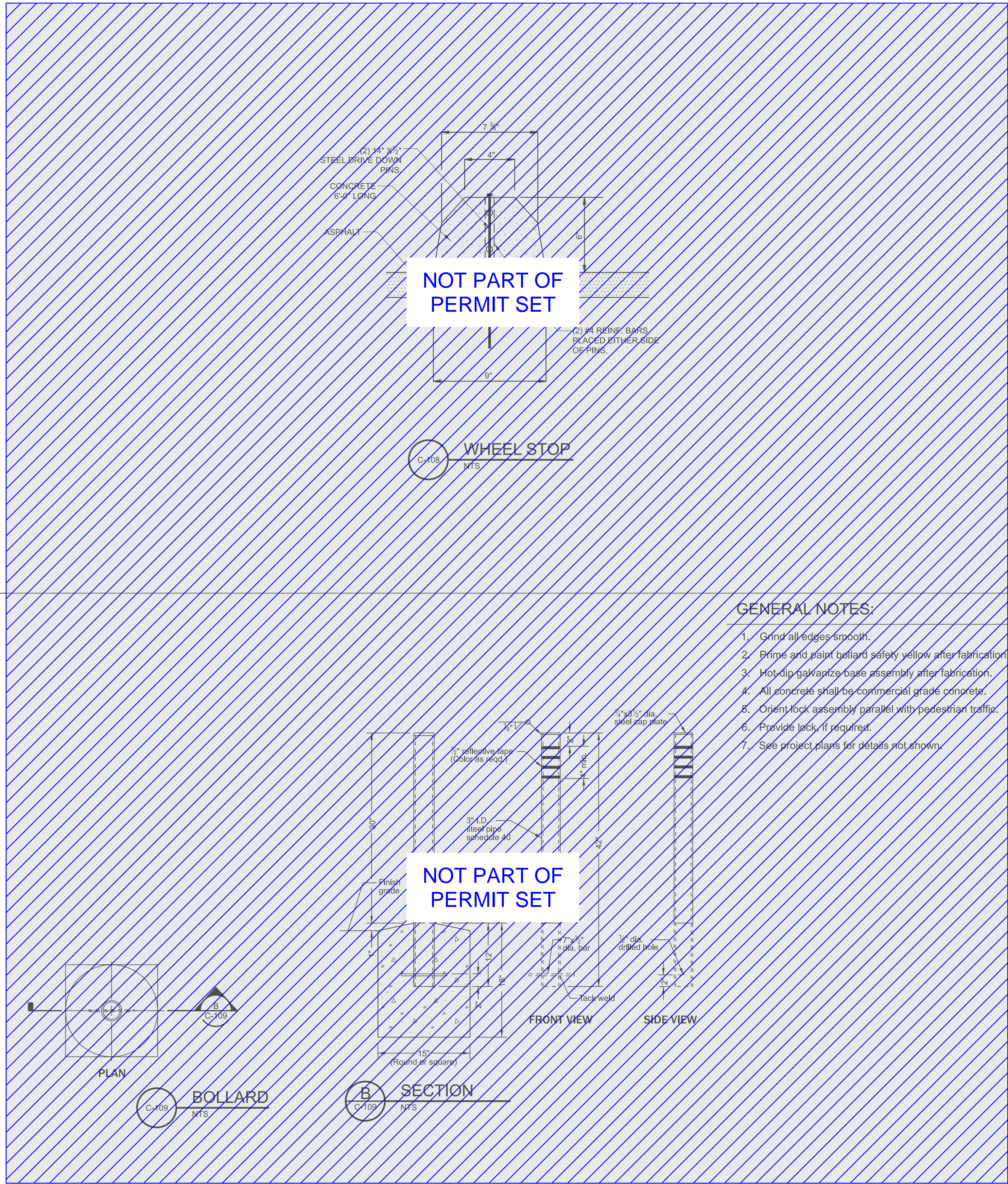


Bull Run Filtration Facility
Civil
Existing Conditions and Demolition Plan
Enlarged Cottrell Rd and Carpenter Ln

SAP Project No
V02229
1/4 Section
765 / 3766
Sheet No
EN-C-301A
0.10 of 2410

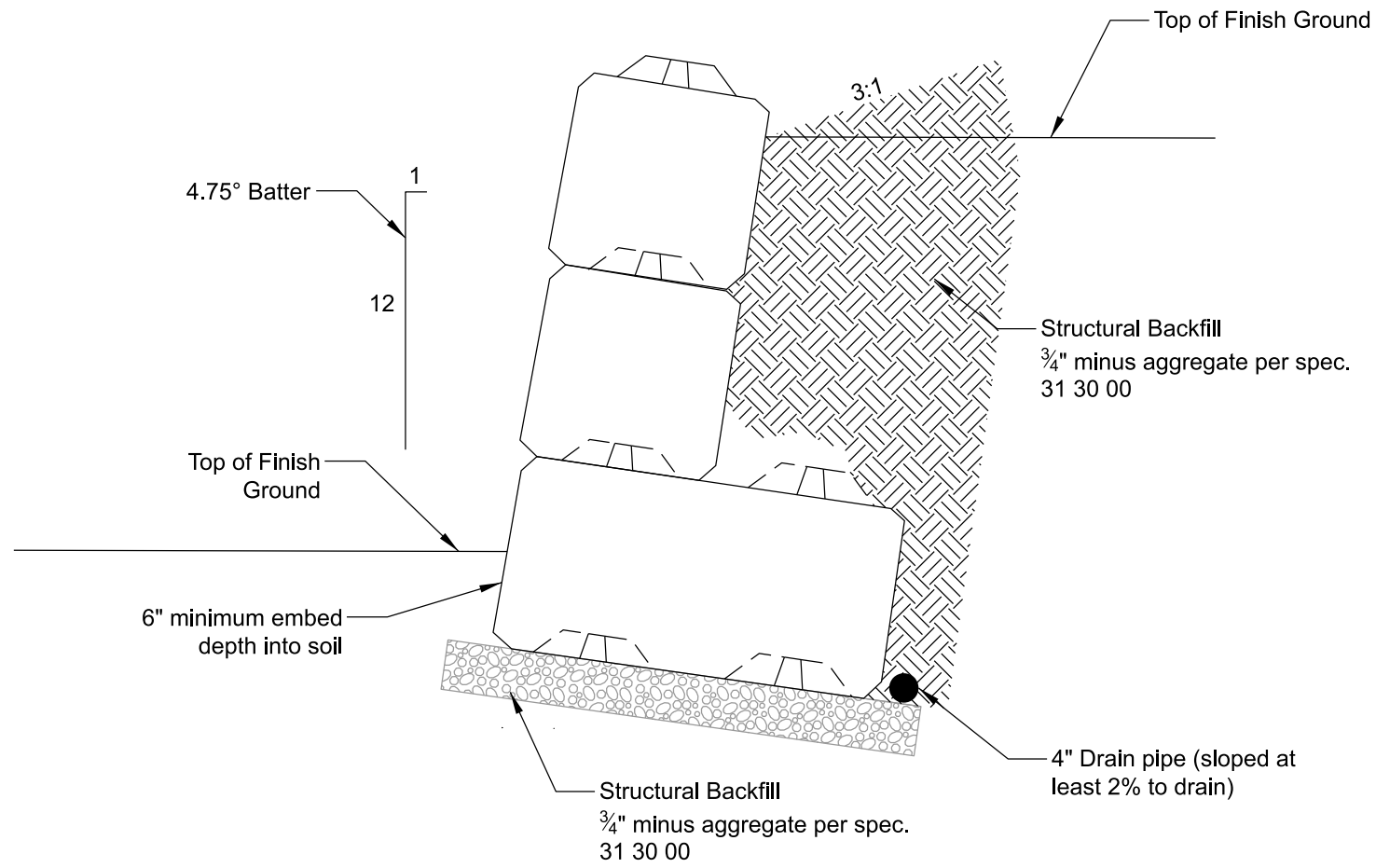
User: stanpw11cs03\$. W02229_FF_GEN_C_903.dgn

10/27/2023

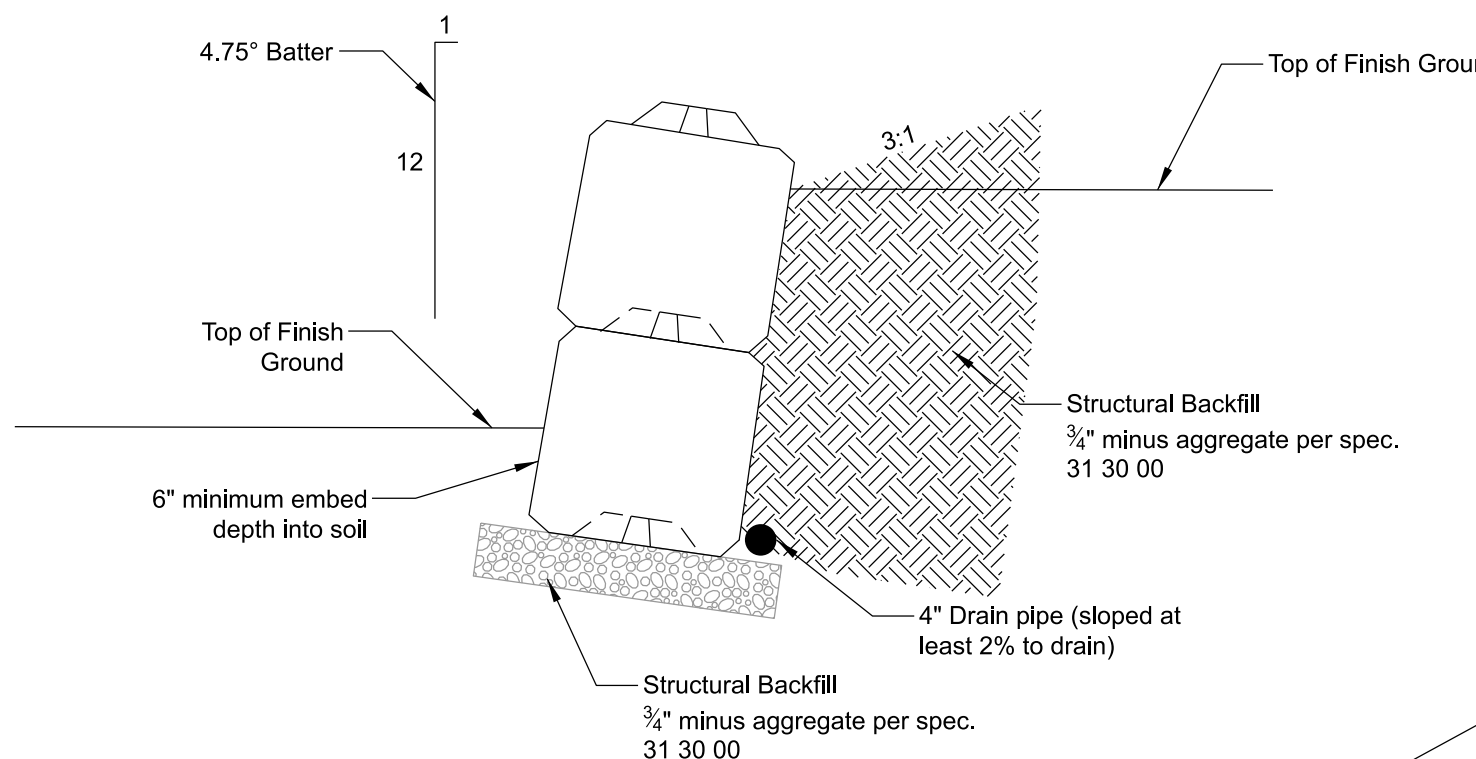


GENERAL NOTES:

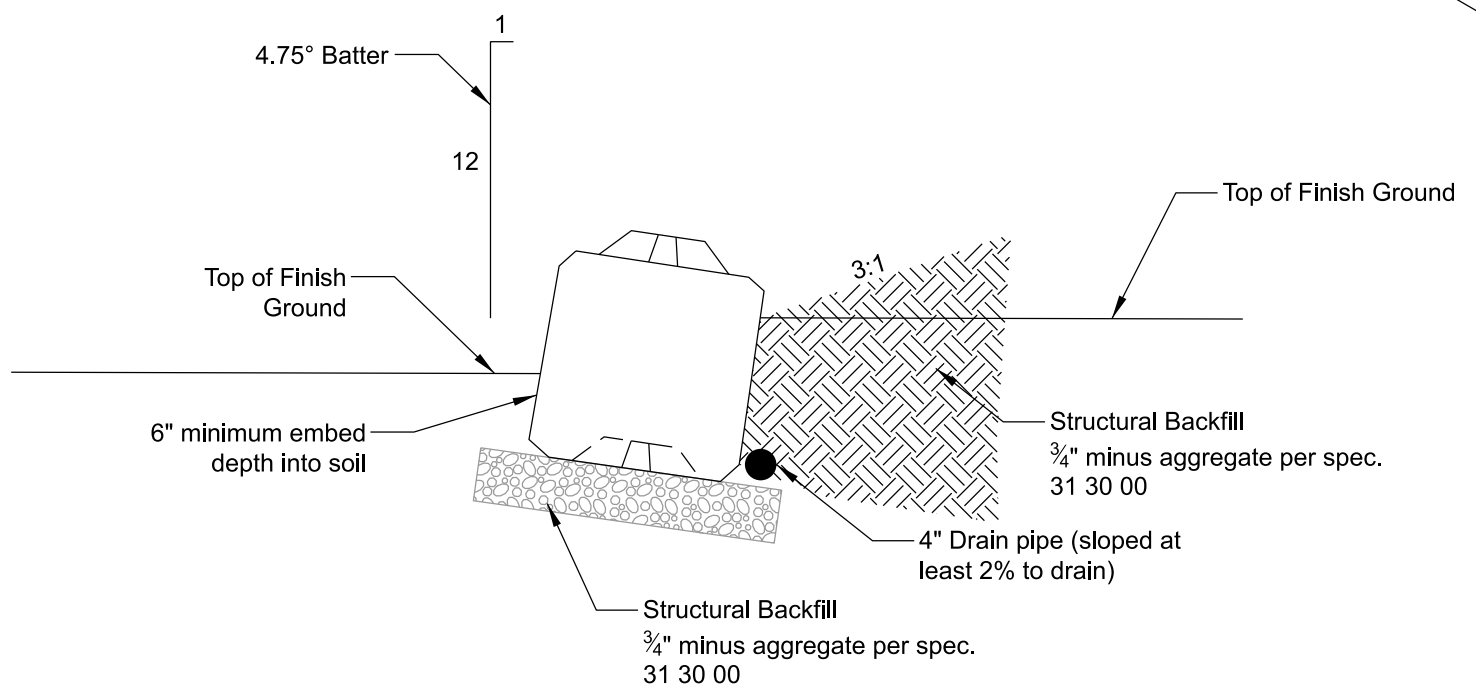
1. Grind all edges smooth.
2. Prime and paint bollard safety yellow after fabrication.
3. Hot-dip galvanize base assembly after fabrication.
4. All concrete shall be commercial grade concrete.
5. Orient lock assembly parallel with pedestrian traffic.
6. Provide lock, if required.
7. See project plans for details not shown.



3 High Modular block wall section

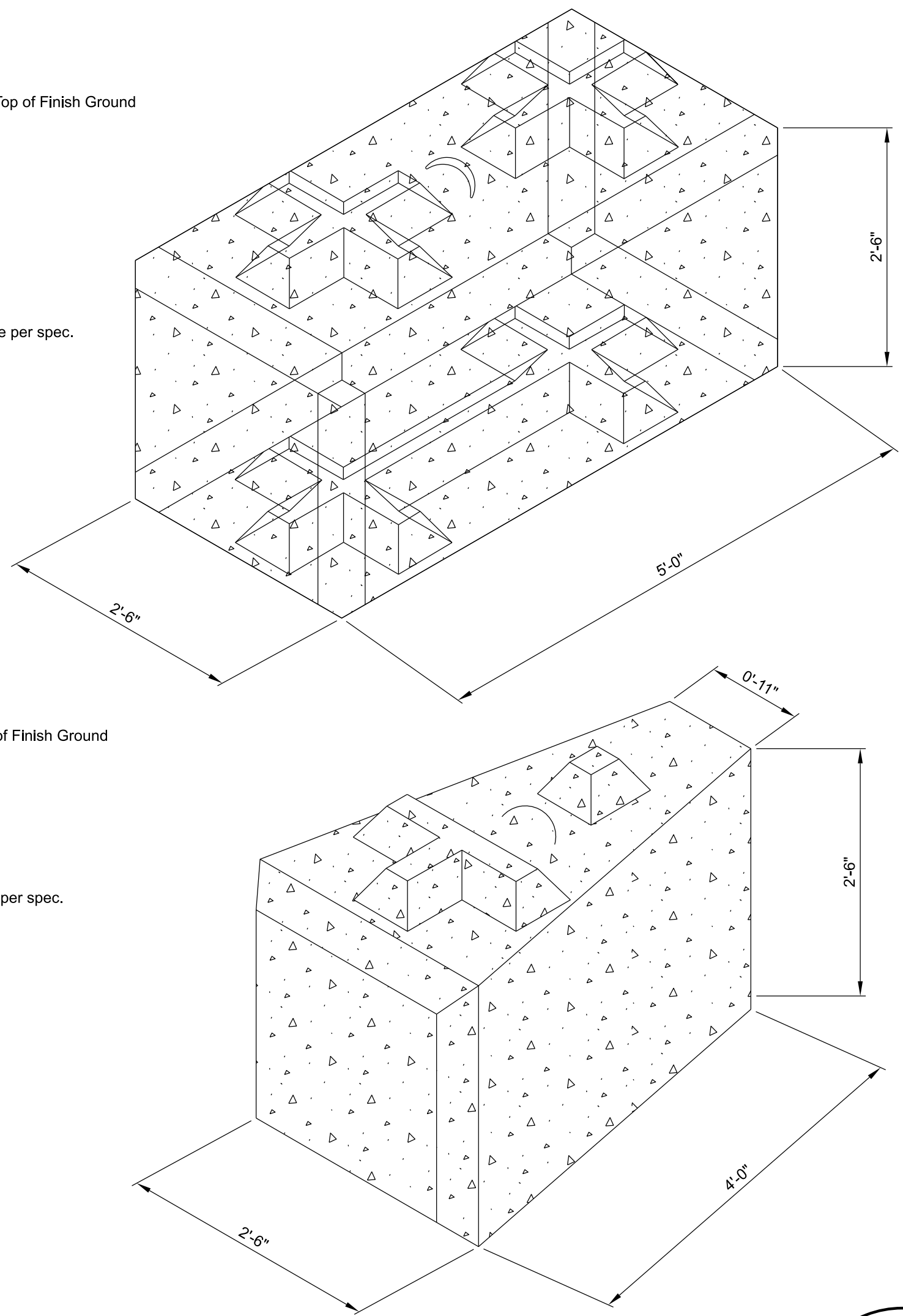


2 High Modular block wall section



1 High Modular block wall section

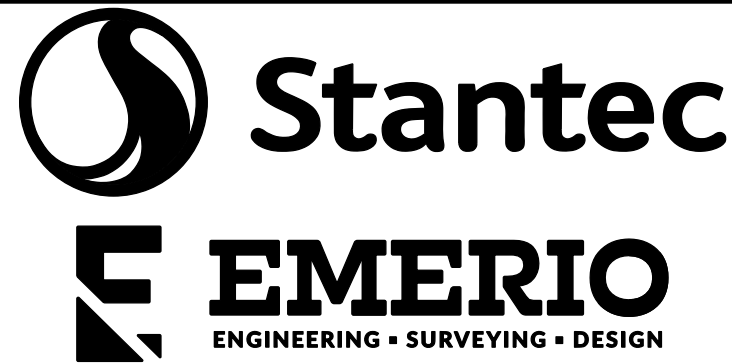
Note:
The leveling pad shall consist of 12 inches thick layer of structural backfill (31 00 00, Section 2.01.C.2) compacted to 95% of ASTM D 1996 modified proctor.



C-110 MODULAR BLOCK WALL
NTS



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Survey			



Designed By	RG	Design Mgr	LGH
Drawn By	DJD	Const Mgr	TG
Checked By	LCS	Const Supvr	RM
Project Mgr	MRG	Date	10/19/23

Warning

0 1/2 1

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David W. Peters, Engineering Manager, PE No 16683

Date



Bull Run Filtration Facility

Civil

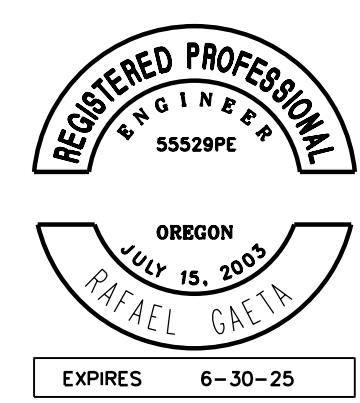
Grading and Paving

SAP Project No
W02229

1/4 Section
3765 / 3766

Sheet No
GEN-C-903

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Survey Datum Notes

Original survey for Filtration Facility property conducted in July 2020. Supplemental survey performed August - November 2021.

Horizontal Control Basis:
Control network established in 2010 for the Water Bureau's Lusted Hill facility, using his scale factor control is on State Plane Coords - North Zone, NAD83(91), international feet, with a combined scale factor of 0.999903250, resulting in a coordinate system that reflects true ground distances then aligned to past projects in the area.

Vertical control is based on the City of Portland vertical datum, and was established by holding City benchmark BM 4283 record elevation of 654.716'.

Site North is 1.6 degrees CCW from true north
Facility North is 41 degrees CCW from true north

REVIEWED
MULTNOMAH COUNTY - DCS
TRANSPORTATION DIVISION

A. PROCEED

X B. PROCEED AS NOTED

C. REVISE AND RESUBMIT

By: *buenv*

Date: 05FEB2024

REV 1: DATE: 05FEB2024 - ADDITIONAL TREE TO BE REMOVED IN THE ROW ON CARPENTER LANE AS SHOWN IN THE BUBBLE IN RED

Legend



Limits of Construction



Vegetation Removal



Tree Removal



Survey Control Point



Survey Benchmark



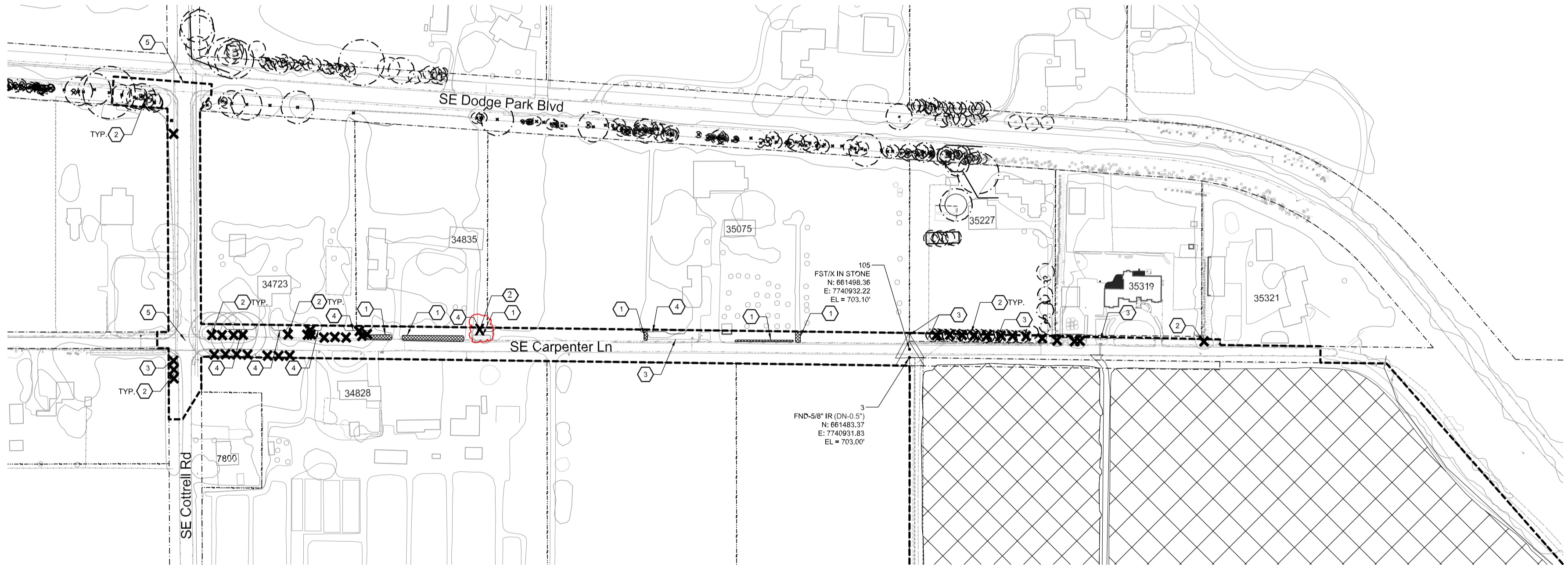
Tree Vegetation

General Sheet Notes

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Sheet Keynotes

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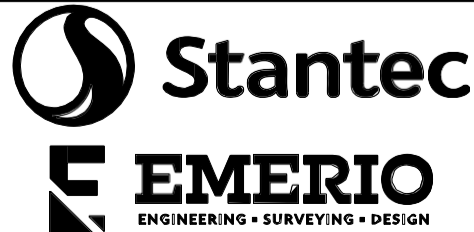


EXPIRES 6-30-25

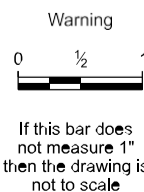
User: stanpw11cs03\$ W02229_FF_GEN_C_301A.dgn

10/27/2023

No	Date	Description	Appd
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Designed By	RG	Design Mgr	LSP
Drawn By	DJD	Const Mgr	FG
Checked By	LCS	Const Supvr	RW
Project Mgr	MRG	Date	10/19/23



David W. Peters, Engineering Manager, PE No 16683



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Existing Conditions and Demolition Plan
Enlarged Cottrell Rd and Carpenter Ln

SAP Project No
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GEN-C-301A
39.10 of 2410



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REVIEWED	
MULTNOMAH COUNTY - DCS	
TRANSPORTATION DIVISION	
X	A. PROCEED
	B. PROCEED AS NOTED
	C. REVISE AND RESUBMIT
By: <i>buenr</i>	Date: 27FEB2024

Legend

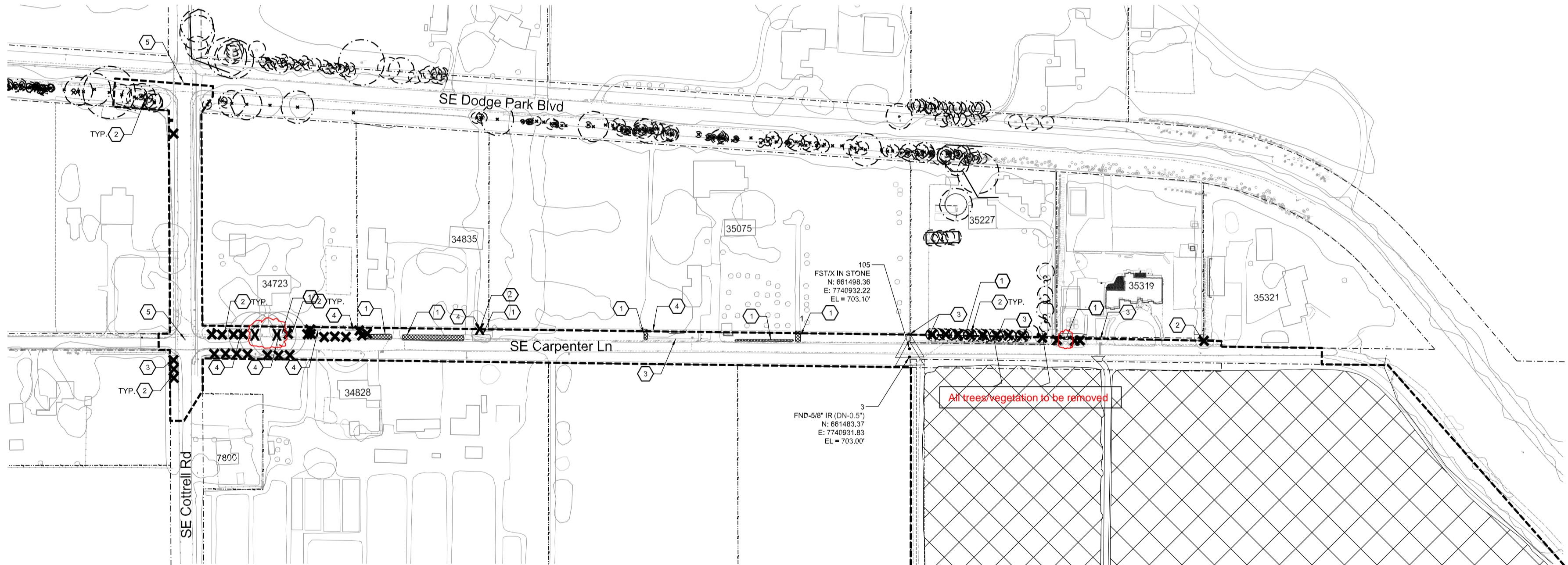
	Limits of Construction
	Vegetation Removal
	Tree Removal
	Survey Control Point
	Survey Benchmark
	Tree Vegetation

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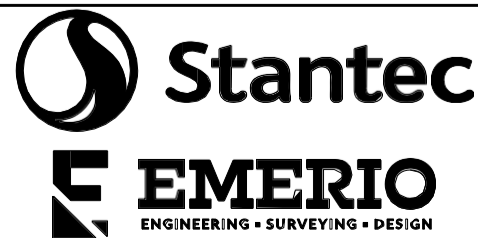
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10/27/2023

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Drawn By	Const Mgr
Checked By	Const Supvr
Project Mgr	Date
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Warning
0 1/2 1
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David W. Peters, Engineering Manager, PE No 16683

Date



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