Construction Permit No: ROW-CONST-2023-0003.2

Effective Date: 08AUG2024

MULTNOMAH COUNTY DEPARTMENT OF COMMUNITY SERVICES TRANSPORTATION PLANNING AND DEVELOPMENT PROGRAM

Construction Permit

___01 August ____, 2024_____

Under the provisions of Multnomah County Code ("MCC") Sections 27.055, 27.056, 29.506, and 29.572, and Multnomah County Road Rules ("MCRR") 18.200, this Construction Permit (the "Permit") is hereby issued by Multnomah County Transportation Planning and Development Program ("County") to:

PORTLAND WATER BUREAU
1120 SW 5 TH AVE, RM 405, PORTLAND, OR 97204
CONTACT: ROBERT FRALEY
CONTACT PHONE: 503-823-3573
CONTACT EMAIL: Robert.fraley@portlandoregon.gov

("Developer"). This Permit is issued for the construction of the improvements within the County controlled rights-of-way or easements, as described in EXHIBIT A, attached hereto and made a part of this document.

- A. General Permit Requirements:
 - 1. The County shall approve all plans, drawings, and other design documents prior to the construction of any improvements as described in the Exhibit A.
 - 2. NO PARTIAL IMPROVEMENTS SHALL BE CONSTRUCTED WITHIN THE COUNTY RIGHT-OF-WAY.
 - 3. ANY EXCAVATION, ROCKING, OR PAVING SHALL ONLY BE ALLOWED AS A PART OF A CONTINUOUS, TIMELY OPERATION TOWARD COMPLETION OF THE WORK AS DESCRIBED IN THE EXHIBIT "A." NO PAVING SHALL BE ALLOWED UNTIL ALL CURB, EXCAVATION, ROCK, DRAINAGE, AND UTILITY WORK, HAS BEEN COMPLETED WITHIN THE AREA TO BE PAVED, AND THEN ONLY AS A PART OF THE CONTINUOUS, TIMELY COMPLETION OF THE ENTIRE PAVING PROJECT, AS SHOWN ON THE APPROVED PLANS.
 - 4. The County reserves the right to prohibit any further connections, withhold occupancy permits, or remove or block any existing connections between the facilities covered by this Permit and adjacent properties, if the Developer does not provide or complete all items of this Permit to the County's satisfaction.

- B. The County agrees to do the following:
 - 1. Establish the amounts of the Administration Fee, Performance Guarantee, and Maintenance Guarantee.
 - 2. Review plans, drawings, and other design documents for conformance with design and drafting criteria. Upon approval of the plans, provide the Developer with copy sets of plans and specifications, and schedule a pre-construction meeting.
 - 3. Establish a reasonable length of time for construction activities within the right-of-way. Issue "First Notification" to authorize the beginning of construction activities, and start the calendar day count
 - 4. Issue "Second Notification" to stop the calendar day count if the County deemed the project to be substantially complete in accordance to the contract documents so that the work can used for its intended purpose.
 - 5. Perform all required final construction supervision, inspection, and testing if needed.
 - 6. Inspect completed facility for acceptance of construction work, and if facilities are accepted issue the "Third Notification" to release the Performance Guarantee.
 - 7. Conduct final inspection prior to expiration of Maintenance Guarantee, and if facilities are accepted issue the "Fourth Notification" to release the Maintenance Guarantee.
 - 8. Administration required for processing and accepting facility as a County or Service District maintained facility, where applicable.
- C. The Developer agrees to do the following:
 - 1. Deposit with the County an Administration Fee, of <u>\$ See Exhibit A</u> prior to scheduling the pre-design meeting. Following acceptance by the County of the completed improvements, this fee may be adjusted up or down to reflect the actual costs incurred by the County. Over-payment will be refunded to the Developer. Under-payment will result in billing the Developer for the difference between the actual costs incurred and the initial fee.
 - 2. Before issuance of the "First Notification" provide to the County a properly executed Performance Guarantee in the amount of <u>\$ See Exhibit A</u>. This guarantee shall be submitted to the County Engineer. The Performance Guarantee shall guarantee the completion of the improvements described in Exhibit A and shall remain in full force and effect until the Developer receives the "Third Notification" or termination of this Construction Permit whichever comes first.
 - 3. Before issuance of the "Third Notification" provide to the County a properly executed Maintenance Guarantee, in the amount of <u>\$ See Exhibit A</u>. The guarantee shall be submitted to the County Engineer. The guarantee shall not expire for two (2) years from date Developer receives the "Third Notification" or receives the "Fourth Notification", whichever comes later. The Maintenance Guarantee shall guarantee the repair or

replacement of any improvements constructed under this permit which become unsatisfactory to the County because of workmanship or materials used during their construction or that are damaged by project workmen or equipment completing the related adjacent construction.

- 4. Complete all construction activities, to include all "As-Built" information, within eighteen (18) months of the issuance date of the "Third Notification".
- 5. Obtain the services of a consulting Engineer, registered in the state of Oregon, WHO WILL BE FURNISHED A COPY OF THIS PERMIT BY THE DEVELOPER. The Developer or Consultant shall furnish to the County a fully executed "Consulting Engineer's Statement" (see attachment), AND SCHEDULE A PRE-DESIGN MEETING WITH THE COUNTY PRIOR TO COMMENCING ANY DESIGN WORK. If Developer should change consulting engineers prior to acceptance of plans a new fully executed "Consulting Engineer's Statement" must be furnished to the County before the project can continue. Any compensation paid to the Engineer for services rendered in performance of Developer's obligations under this Permit may not be included as part of the Administration Fee.
- 6. Convey all right-of-way dedications and easement dedications as required by this Construction Permit to the appropriate governing body, free of all encumbrances, before issuance of the "First Notification."
- 7. Developer shall defend, save, hold harmless, and indemnify County and its officers, employees, and agents from and against all claims, suits, actions, losses, damages, liabilities, costs, and expenses of any nature whatsoever, including attorney fees, resulting from, arising out of, or relating to the activities of Developer or its officers, employees, agents, contractors, subcontractors under this Permit. Developer shall have control of the defense and settlement of any claim that is subject to this paragraph. However, neither the Developer nor any attorney engaged by the Developer shall defend the claim in the name of the County or any department of the County, nor purport to act as legal representative of the County or any of its departments without receiving from the Multnomah County Attorney's Office, authority to act as legal counsel for the County, nor shall Developer settle any claim on behalf of the County without the approval of the Multnomah County Attorney's Office. County may, at its election and expense, assume its own defense and settlement.
- D. Developer shall ensure that any Consulting Engineer ("Engineer") retained by the Developer to provide services under this Permit complies with the following requirements:
 - 1. The Engineer must work directly with the County Engineer, and provide engineering services in the same manner as if the Engineer had been retained by the County.
 - 2. Design the project, including complete plans and specifications, in conformance with MCC 29.500, the Multnomah County Design and Construction Manual, and design standards adopted thereunder. All plans submitted for review shall be submitted on 24 inch by 36 inch sheets. Plans shall be produced using English units and quantities.
 - 3. Perform or obtain all survey work according to County standards, as required for design and construction of the project. Perform any additional construction staking or material testing

as directed by the County. The Engineer shall document any changes to the approved design that occur during construction, and submit any additional work required for preparation of "as-built" plans.

- 4. After production of "as-built" plans, the Engineer shall provide to the County an electronic copy of the drawings, to include the base topographic survey data, with the "as-built" mylars.
- 5. Detail on the plans items of esthetic or historic significance, including trees, inside the right-of-way or within ten (10) feet of the right-of-way line that may be disturbed or destroyed by the project.
- 6. Detail on the plans all underground utilities to be constructed as part of this Permit as a composite utility plan. All information is to be furnished by the respective utilities, and approved by them.
- 7. Obtain DEQ and appropriate city approval of sanitary sewers, if applicable, and furnish copy of approval to the County prior to the County's approval of plans.
- 8. The Engineer shall make all changes to the plans as may be required for County approval of the plans. After all changes have been made, the Engineer shall submit a stamped and signed plans either electronically or on double mat mylar or photocopied mylars on double mat mylars and one set of 11 inch by 17 inch paper. If mylars are hand produced or pen plotted, mylars are to be produced in black ink.
- E. Developer shall ensure that any Construction Contractor ("Contractor") retained by the Developer to provide services under this Permit complies with the following requirements:
 - 1. Before the pre-construction meeting, Contractor shall notify all affected utilities and coordinate their work within the project.
 - 2. At the time of the pre-construction meeting, the Contractor shall provide to the County the following documents:

Traffic control plans Insurance Certificate with Multnomah County as additional insured Construction work schedule List of contractors' contact numbers for emergencies List of subcontractors List of material suppliers Gradation, Abrasion, Sand Equivalent, Fracture, and Degradation Tests for Aggregate Mix Design for Concrete and Asphalt Material Certifications

All documents shall conform to the requirements of the current ODOT Oregon Standard Specifications for Construction.

3. All activities, including work to be performed and materials to be used in the performance of work as described in the Exhibit/s, shall conform to the current ODOT Oregon Standard

Specifications for Construction except as modified by Multnomah County Special Provisions.

- 4. Maintain all erosion control measures at all times.
- 5. Complete all construction activities within the right-of-way within the period specified in the "First Notification" and complete any corrective work as detailed in the "Second Notification" within twenty (20) calendar days from the date of the "Second Notification". Failure to meet these deadlines shall be grounds for the County to proceed under Section F (2) of this Permit.
- F. Time Extension/Forfeiture
 - 1. The County may, in its sole discretion, grant time extensions to the time limits described in this Permit. Any request for a time extension shall be in writing, and state the reasons for the extension. An approved extension may require an additional Administration Fee and may also require a new Performance Guarantee in an increased amount necessary to cover current estimated construction costs. Before the County grants any time extension, the Developer shall furnish proof that all Fees and Guarantees have met the requirements of Sections C (1) and C (2) for the new date being requested.
 - 2. The County may, in its sole discretion, require forfeiture of the Performance Guarantee and complete the project for any of the following:
 - a) Failure to complete construction by the date established in Section C (4)
 - b) Failure to complete construction activities within the time limit established in the "First Notification."
 - c) Failure to complete the corrective work within 20 calendar days of the date of the "Second Notification."
 - d) Failure to abide by the other terms of this Permit.
 - 3. If the Performance Guarantee is insufficient to reimburse the County for its costs to complete the project under paragraph 2 of this section, the County shall bill the Developer for any excess costs.

I (We) have read and hereby accept the terms of this Construction Permit.

By	D	avid	Peters
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Developer

David Peters Developer (Print Name) _1 August 2024_____ (Date)

Tax ID No.

Accepted for Multnomah County, Oregon

Brad Choi Digitally signed by Brad Choi DN:C-US, E-brad Choi@multo.us, O-Multinomah County, Choi Dete: 2024.08.08 11:40:45-0700

Brad Choi, PE Transportation Development Manager

By

By

Jon Henrichsen, PE Transportation Division Director 8/8/24 (Date)

8/8/24

(Date)

Construction Permit No: ROW-CONST-2023-0003.2 Effective Date: **08AUG2024**

EXHIBIT "A"

To make frontage/road improvements as part of the Notice of Decision document T3-2022-16220 Hearings Officer's Decision and fulfills the following Conditions of Approval D.5.b, E.1.f, E.1.h, E.1.i, E1.j, E1.k, E1.l, E.1.m, E1.n, E1.o, E1.p, E1.q, and E1.r.

The improvements are to consist of the following:

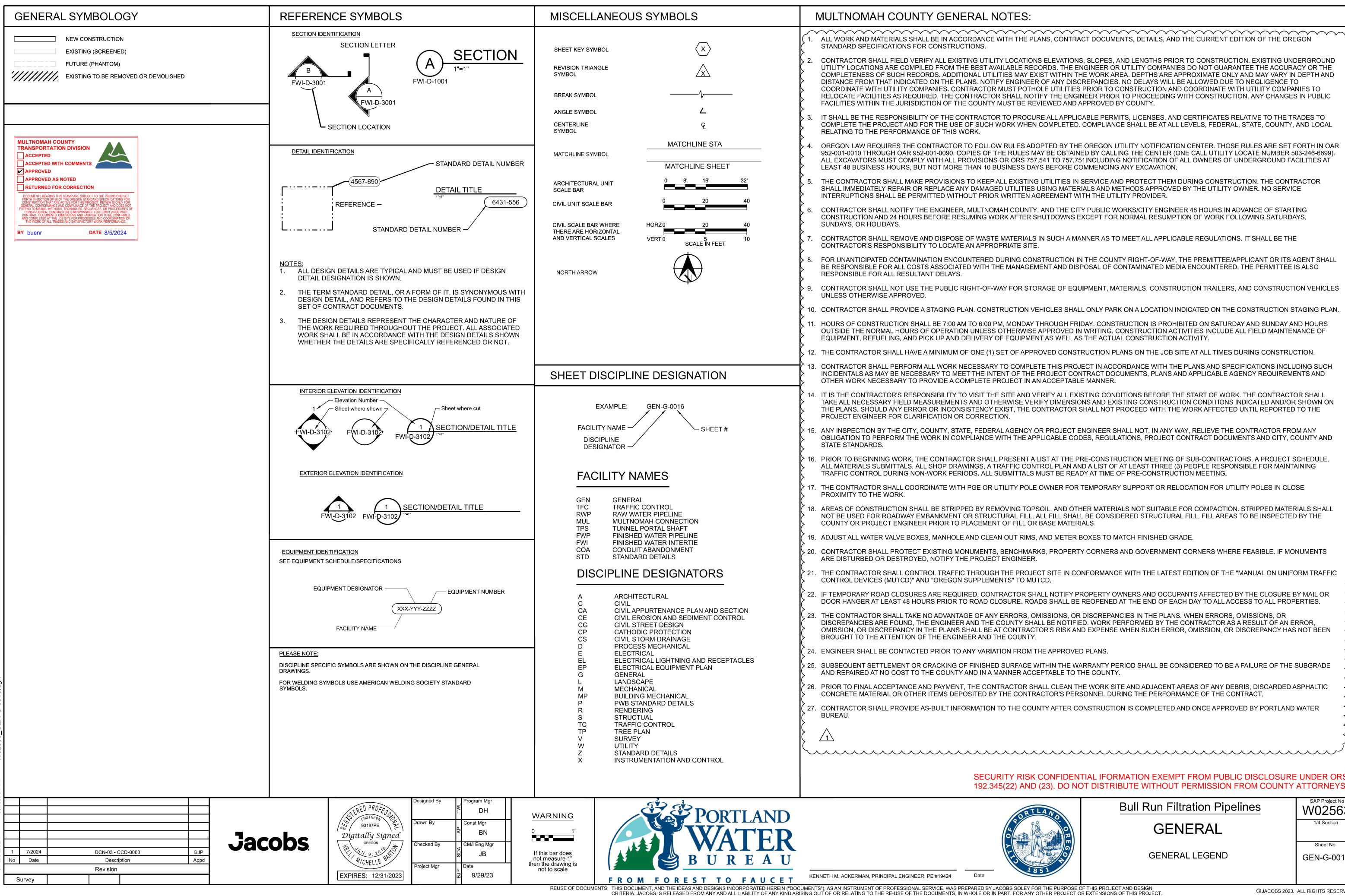
1. Road improvements as shown in the attached Construction Plan.

Furnish Administration Fee in amount of <u>\$ 125,427.00</u> (please see Section C (1) of Construction Permit). Administration Fee must accompany signed Project Permit. If writing a check, please make check payable to: MULTNOMAH COUNTY.

Furnish Performance Guarantee in amount of <u>\$ 1,379,697.00</u> (please see Section C (2) of Construction Permit).

Furnish Maintenance Guarantee in amount of <u>\$ 275,939.00</u> (please see Section C (3) of Construction Permit).

Both the Performance Guarantee and the Maintenance Guarantee can be provided in the form of an indemnity agreement between the City and County in a form approved by the County Attorney.



ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PLANS, CONTRACT DOCUMENTS, DETAILS, AND THE CURRENT EDITION OF THE OREGON

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS ELEVATIONS, SLOPES, AND LENGTHS PRIOR TO CONSTRUCTION. EXISTING UNDERGROUND UTILITY LOCATIONS ARE COMPILED FROM THE BEST AVAILABLE RECORDS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. DEPTHS ARE APPROXIMATE ONLY AND MAY VARY IN DEPTH AND DISTANCE FROM THAT INDICATED ON THE PLANS. NOTIFY ENGINEER OF ANY DISCREPANCIES. NO DELAYS WILL BE ALLOWED DUE TO NEGLIGENCE TO COORDINATE WITH UTILITY COMPANIES. CONTRACTOR MUST POTHOLE UTILITIES PRIOR TO CONSTRUCTION AND COORDINATE WITH UTILITY COMPANIES TO RELOCATE FACILITIES AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY CHANGES IN PUBLIC

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROCURE ALL APPLICABLE PERMITS, LICENSES, AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE, COUNTY, AND LOCAL

OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. COPIES OF THE RULES MAY BE OBTAINED BY CALLING THE CENTER (ONE CALL UTILITY LOCATE NUMBER 503-246-6699). ALL EXCAVATORS MUST COMPLY WITH ALL PROVISIONS OR ORS 757.541 TO 757.751INCLUDING NOTIFICATION OF ALL OWNERS OF UNDERGROUND FACILITIES AT

THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIALS AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE

CONTRACTOR SHALL NOTIFY THE ENGINEER, MULTNOMAH COUNTY, AND THE CITY PUBLIC WORKS/CITY ENGINEER 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS.

CONTRACTOR SHALL REMOVE AND DISPOSE OF WASTE MATERIALS IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS. IT SHALL BE THE

FOR UNANTICIPATED CONTAMINATION ENCOUNTERED DURING CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY, THE PREMITTEE/APPLICANT OR ITS AGENT SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE MANAGEMENT AND DISPOSAL OF CONTAMINATED MEDIA ENCOUNTERED. THE PERMITTEE IS ALSO

CONTRACTOR SHALL NOT USE THE PUBLIC RIGHT-OF-WAY FOR STORAGE OF EQUIPMENT, MATERIALS, CONSTRUCTION TRAILERS, AND CONSTRUCTION VEHICLES

10. CONTRACTOR SHALL PROVIDE A STAGING PLAN. CONSTRUCTION VEHICLES SHALL ONLY PARK ON A LOCATION INDICATED ON THE CONSTRUCTION STAGING PLAN.

HOURS OF CONSTRUCTION SHALL BE 7:00 AM TO 6:00 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION IS PROHIBITED ON SATURDAY AND SUNDAY AND HOURS OUTSIDE THE NORMAL HOURS OF OPERATION UNLESS OTHERWISE APPROVED IN WRITING. CONSTRUCTION ACTIVITIES INCLUDE ALL FIELD MAINTENANCE OF

12. THE CONTRACTOR SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, PLANS AND APPLICABLE AGENCY REQUIREMENTS AND

14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE

15. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, PROJECT CONTRACT DOCUMENTS AND CITY, COUNTY AND

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PRESENT A LIST AT THE PRE-CONSTRUCTION MEETING OF SUB-CONTRACTORS, A PROJECT SCHEDULE, ALL MATERIALS SUBMITTALS, ALL SHOP DRAWINGS, A TRAFFIC CONTROL PLAN AND A LIST OF AT LEAST THREE (3) PEOPLE RESPONSIBLE FOR MAINTAINING

17. THE CONTRACTOR SHALL COORDINATE WITH PGE OR UTILITY POLE OWNER FOR TEMPORARY SUPPORT OR RELOCATION FOR UTILITY POLES IN CLOSE

18. AREAS OF CONSTRUCTION SHALL BE STRIPPED BY REMOVING TOPSOIL, AND OTHER MATERIALS NOT SUITABLE FOR COMPACTION. STRIPPED MATERIALS SHALL NOT BE USED FOR ROADWAY EMBANKMENT OR STRUCTURAL FILL. ALL FILL SHALL BE CONSIDERED STRUCTURAL FILL. FILL AREAS TO BE INSPECTED BY THE

> 20. CONTRACTOR SHALL PROTECT EXISTING MONUMENTS, BENCHMARKS, PROPERTY CORNERS AND GOVERNMENT CORNERS WHERE FEASIBLE. IF MONUMENTS

21. THE CONTRACTOR SHALL CONTROL TRAFFIC THROUGH THE PROJECT SITE IN CONFORMANCE WITH THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC"

22. IF TEMPORARY ROAD CLOSURES ARE REQUIRED, CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND OCCUPANTS AFFECTED BY THE CLOSURE BY MAIL OR DOOR HANGER AT LEAST 48 HOURS PRIOR TO ROAD CLOSURE. ROADS SHALL BE REOPENED AT THE END OF EACH DAY TO ALL ACCESS TO ALL PROPERTIES.

23. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY ERRORS. OMISSIONS, OR DISCREPANCIES IN THE PLANS, WHEN ERRORS, OMISSIONS, OR DISCREPANCIES ARE FOUND. THE ENGINEER AND THE COUNTY SHALL BE NOTIFIED. WORK PERFORMED BY THE CONTRACTOR AS A RESULT OF AN ERROR. OMISSION, OR DISCREPANCY IN THE PLANS SHALL BE AT CONTRACTOR'S RISK AND EXPENSE WHEN SUCH ERROR. OMISSION. OR DISCREPANCY HAS NOT BEEN

> 25. SUBSEQUENT SETTLEMENT OR CRACKING OF FINISHED SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A FAILURE OF THE SUBGRADE

26. PRIOR TO FINAL ACCEPTANCE AND PAYMENT, THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED ASPHALTIC CONCRETE MATERIAL OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THE CONTRACT.

27. CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION TO THE COUNTY AFTER CONSTRUCTION IS COMPLETED AND ONCE APPROVED BY PORTLAND WATER

SECURITY RISK CONFIDENTIAL IFORMATION EXEMPT FROM PUBLIC DISCLOSURE UNDER ORS 192.345(22) AND (23). DO NOT DISTRIBUTE WITHOUT PERMISSION FROM COUNTY ATTORNEYS.

Bull Run Filtration Pipelines

GENERAL

W02563
1/4 Section

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MAY NOT INCLUDE CARPENTER LANE WEST OF COTTRELL AS A DETOUR ONTROL PLANS FOR SIGNAGE DURING CONSTRUCTION.

L COMPLY WITH THE FOLLOWING CONSTRAINTS FOR PIPELINE

BE PERFORMED SIMULTANEOUSLY ON TWO COUNTY ROADS AT THE THE EXCEPTION THAT:

E PARK BOULEVARD AND ALTMAN ROAD WORK IS ALLOWED TO BE ED CONCURRENTLY; AND D ROAD (BETWEEN FINISHED WATER INTERTIE AND S.E. ALTMAN ROAD)

OTTRELL ROAD WORK IS ALLOWED TO BE PERFORMED CONCURRENTLY.

F DODGE PARK BLVD EAST OF THE INTERSECTION OF S.E. COTTRELL DODGE PARK BOULEVARD CAN ONLY BE CONSTRUCTED DURING THE AUGUST THROUGH OCTOBER.

ON OF S.E. COTTRELL ROAD/S.E. DODGE PARK BOULEVARD CAN ONLY HE MONTH OF OCTOBER.

S.E. DODGE PARK BOULEVARD TO CROSS THE ROAD ONTO THE RTY AT THE WEST END OF THE FINISHED WATER PIPES CAN ONLY BE MONTH OF OCTOBER.

ROAD CANNOT BE CLOSED OR LIMITED TO TRAFFIC WHILE WORK IS LISHED ON S.E. DODGE PARK BOULEVARD LIMITING TRAFFIC.

LATION ACROSS THE PRIVATE PROPERTY IS RECOMMENDED TO ONLY DURING THE SUMMERTIME (NON-WET PERIODS).

LE LANE OF TRAFFIC FLOW IS REQUIRED AT ALL TIMES ALONG S.E. DULEVARD WHILE WORK IS BEING ACCOMPLISHED, AND THE TRAFFIC ALL ONLY BE RESTRICTED BY THE ROLLING LANE CLOSURE (WITH THE HE CLOSURES NOTED IN C. AND D., BUT ONLY IN COMPLIANCE WITH **NSTRAINTS)**.

LUSTED ROAD BETWEEN THE FINISHED WATER INTERTIE TO S.E. SALLOWED WITH THE FOLLOWING LIMITATIONS:

RECT AND U-PICK PEACH ORCHARD LOCATED APPROXIMATELY 900 FEET .E. ALTMAN ROAD SHALL BE PROVIDED WITH UNIMPEDED ACCESS FOR TOMERS DURING THE MONTH OF AUGUST.

N OF THE C4FWP PIPELINE FROM THE STOP SIGN ON S.E. ALTMAN ROAD DRIVE TO S.E. OXBOW DRIVE FOR CONNECTION TO THE EXISTING ONLY OCCUR DURING THE MONTHS OF JUNE/JULY OR OCTOBER/MID-NOT IMPEDE FARMERS' SHIPPING TRAFFIC AT OTHER PERIODS OF THE

ATER S.E. LUSTED ROAD CLOSURE CANNOT BE DONE SIMULTANEOUSLY JRE OF S.E. ALTMAN ROAD.

LINE IN OXBOW DRIVE AND CONNECTION IN OXBOW DRIVE CANNOT BE SIMULTANEOUS WITH THE WORK ON FINISHED WATER PIPES IN S.E.

ION MUST ADDITIONALLY COMPLY WITH THE FOLLOWING:

BETWEEN S.E. LUSTED RD AND S.E. PIPELINE RD WILL BE ALLOWED FOR PIPELINE INSTALLATION BUT ACCESS MUST BE MAINTAINED FOR (1) SERVICE PROVIDERS, AND LOCAL RESIDENTS (WITHIN THE CLOSURE) ETOUR ALTERNATIVE AND FOR (2) EMERGENCY VEHICLES.

FROM S.E. PIPELINE RD TO THE STOP SIGN AT THE INTERSECTION OF S.E. DXBOW DRIVE CAN BE FULLY CLOSED FOR THE DURATION OF THE LATION, BUT ACCESS MUST BE MAINTAINED FOR (1) FARM TRAFFIC, DERS, AND LOCAL RESIDENTS (WITHIN THE CLOSURE) WHO HAVE NO ATIVE AND FOR (2) EMERGENCY VEHICLES.

NE CONNECTION WORK ON S.E. LUSTED RD AT THE MULTNOMAH EACH OF THE EXISTING CONDUITS, DAYTIME ROAD CLOSURE IS CCESS FOR (1) FARM TRAFFIC, SERVICE PROVIDERS, AND LOCAL HIN THE CLOSURE) WHO HAVE NO DETOUR ALTERNATIVE AND FOR (2) HICLES, MUST BE MAINTAINED THROUGH THE CONSTRUCTION ZONE. NSTRUCTION WORK HOURS, SINGLE LANE ACCESS THROUGH THE ZONE SHALL BE PROVIDED BY EITHER FLAGGING OR SIGNALIZATION.

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



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KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424 FROM FOREST TO FAUCET

Date

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TRAFFIC CONTROL **GENERAL NOTES**

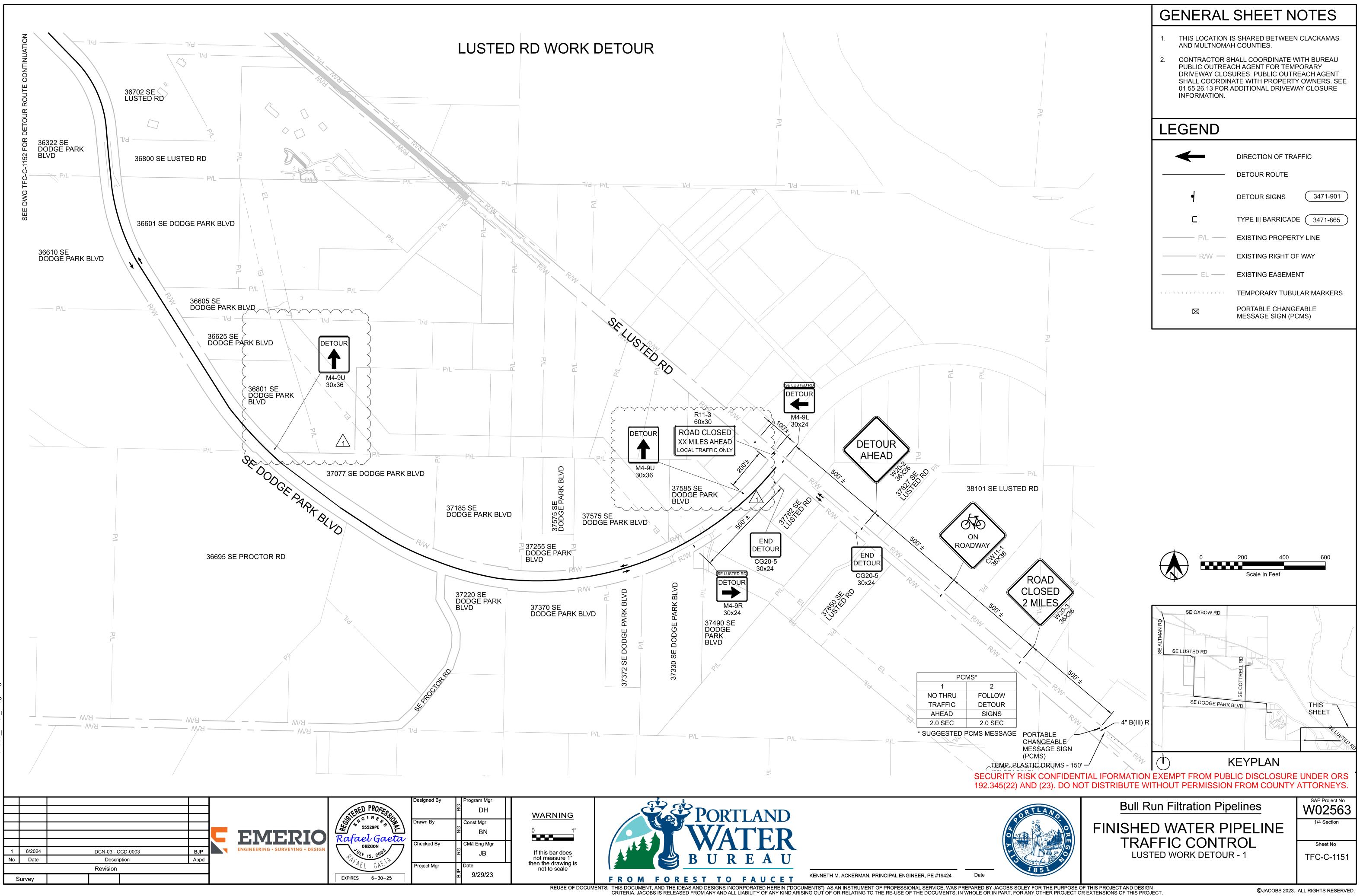
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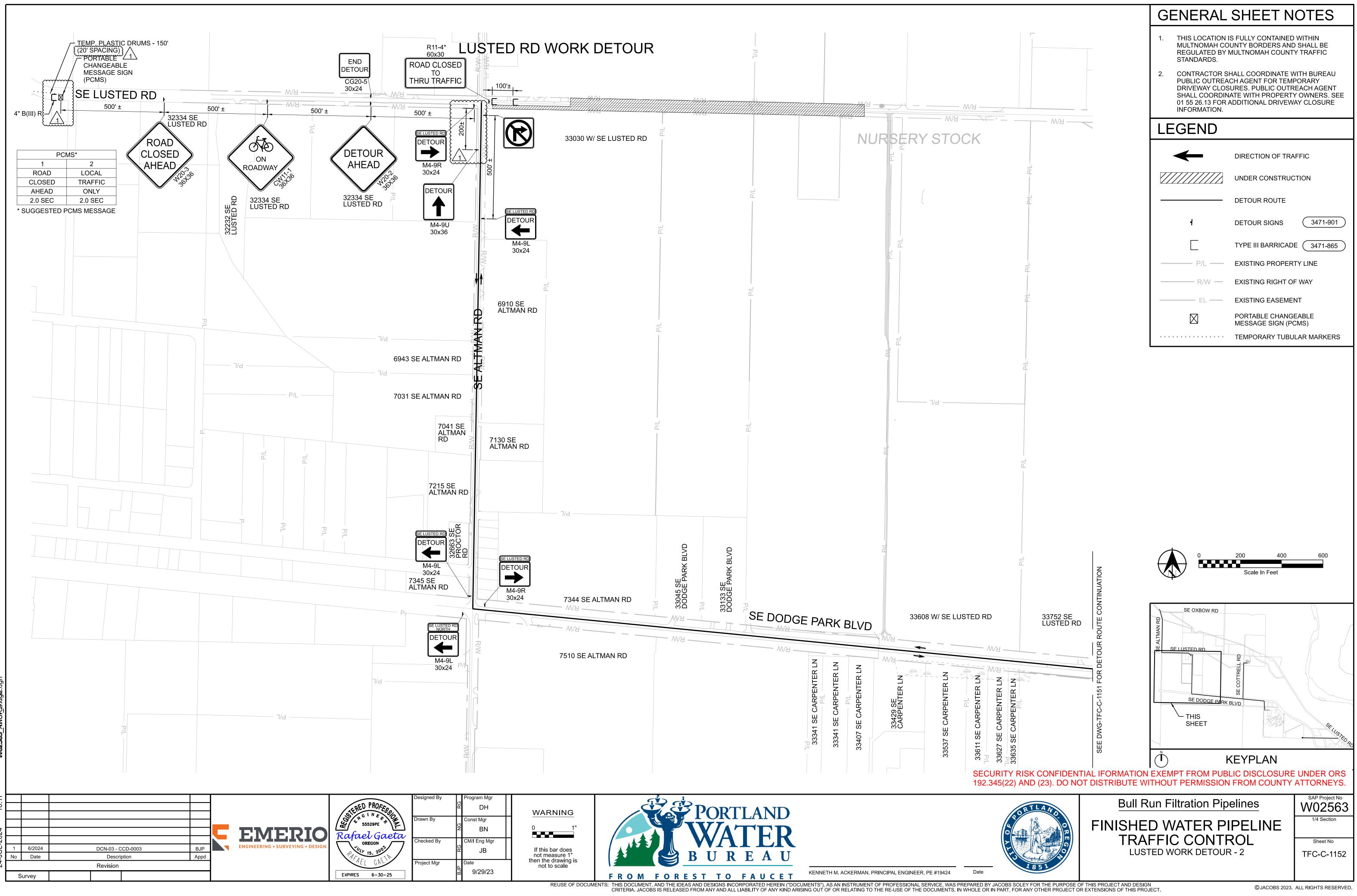
Bull Run Filtration Pipelines

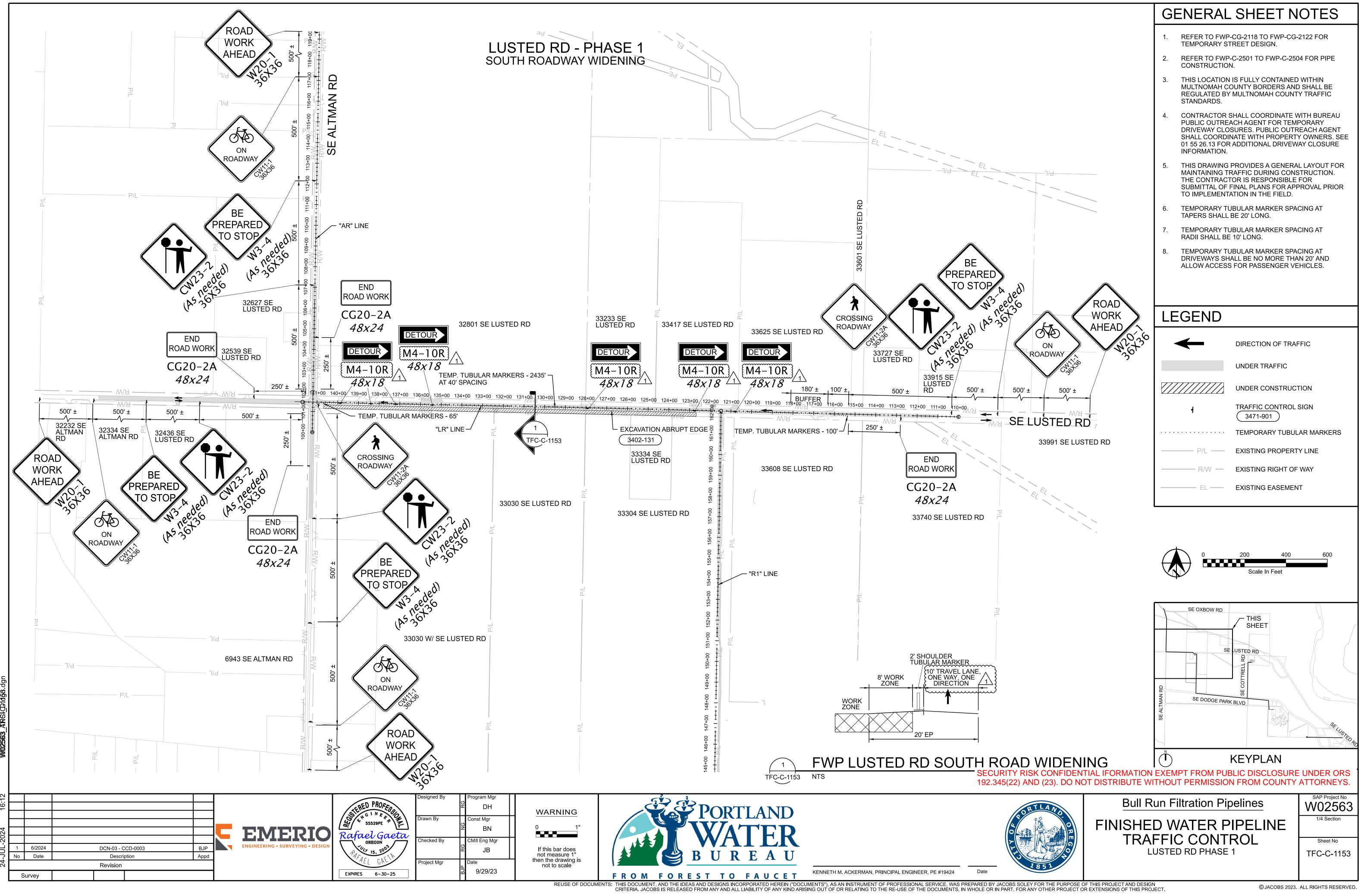
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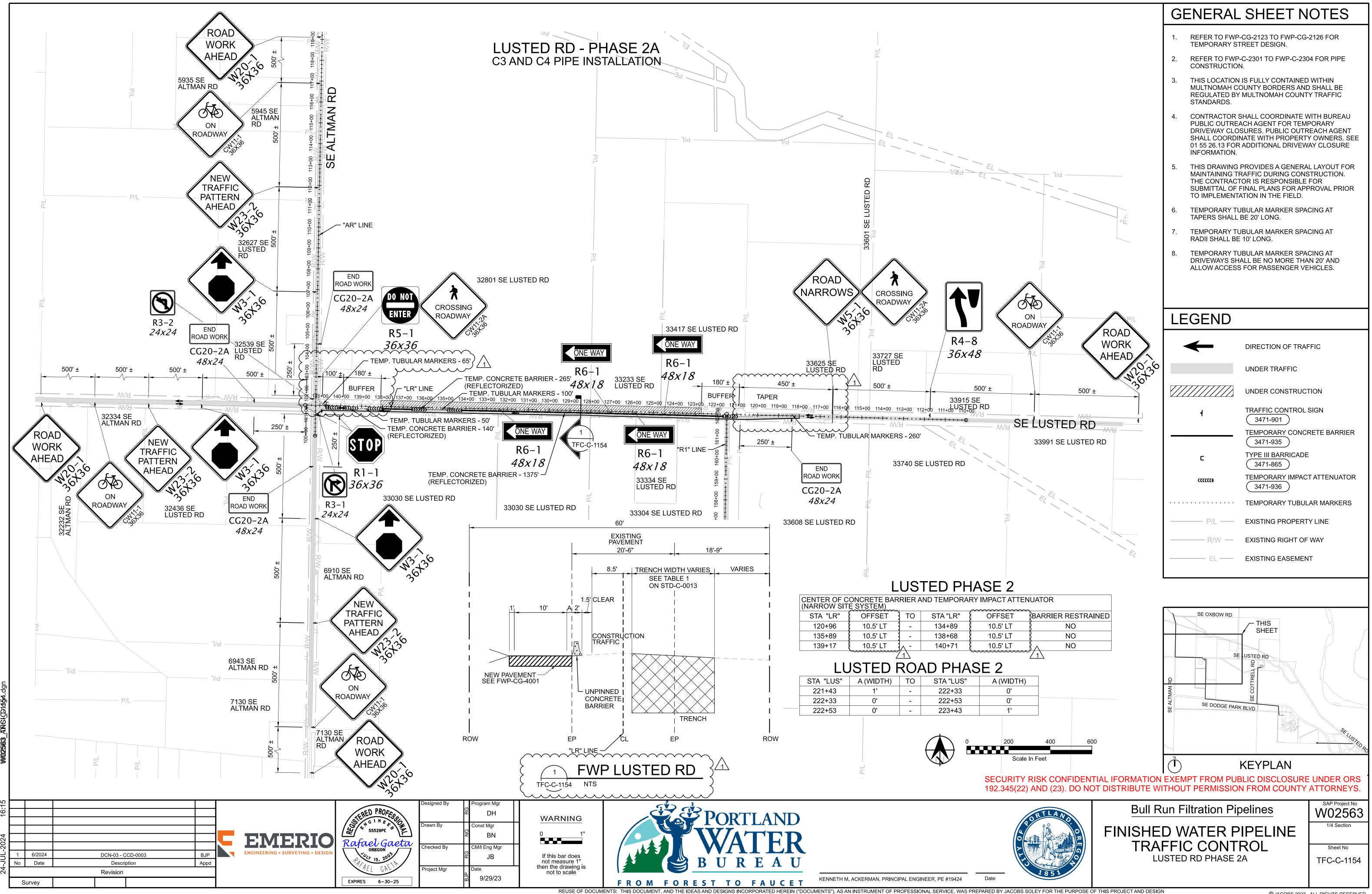
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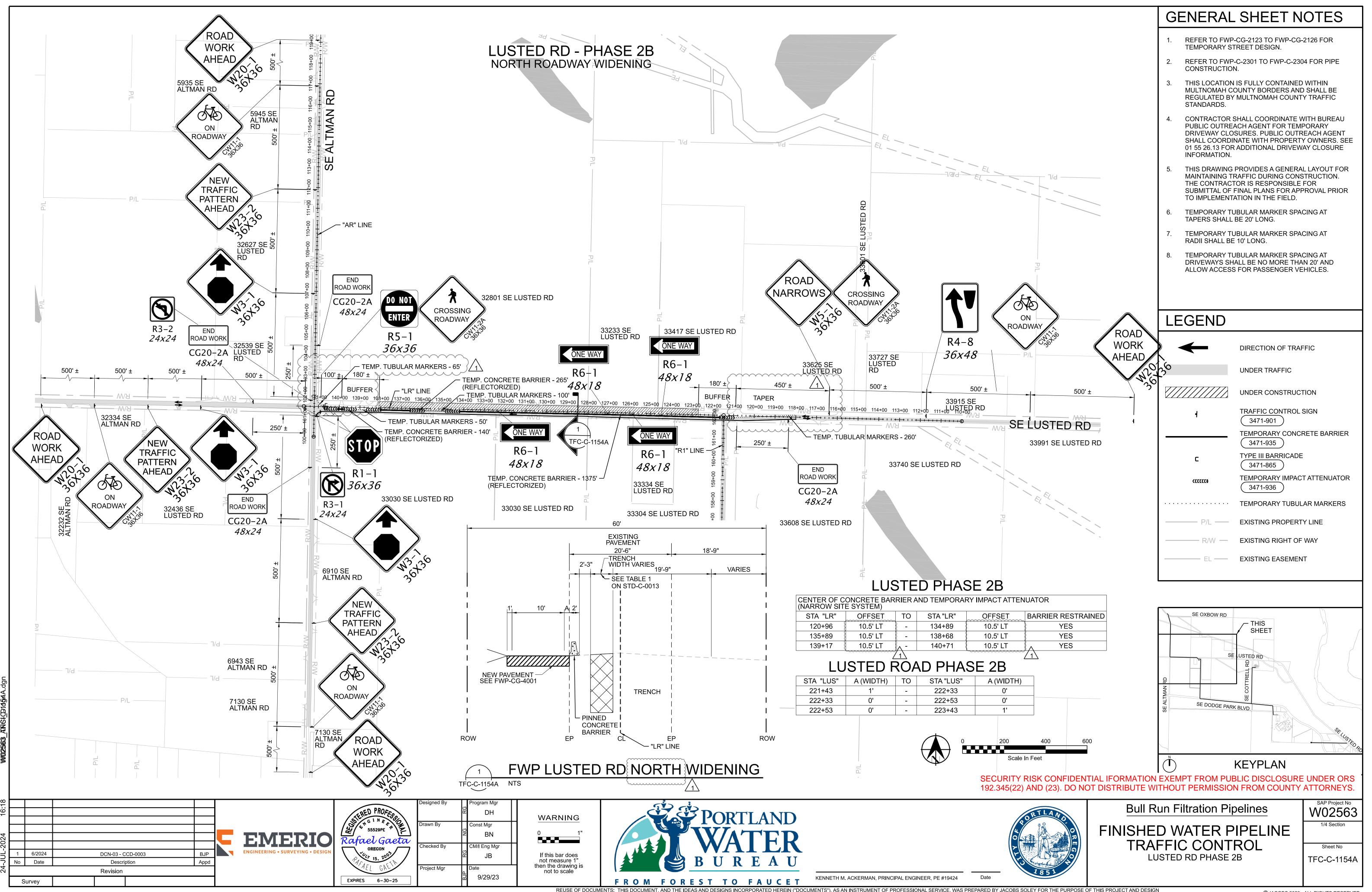
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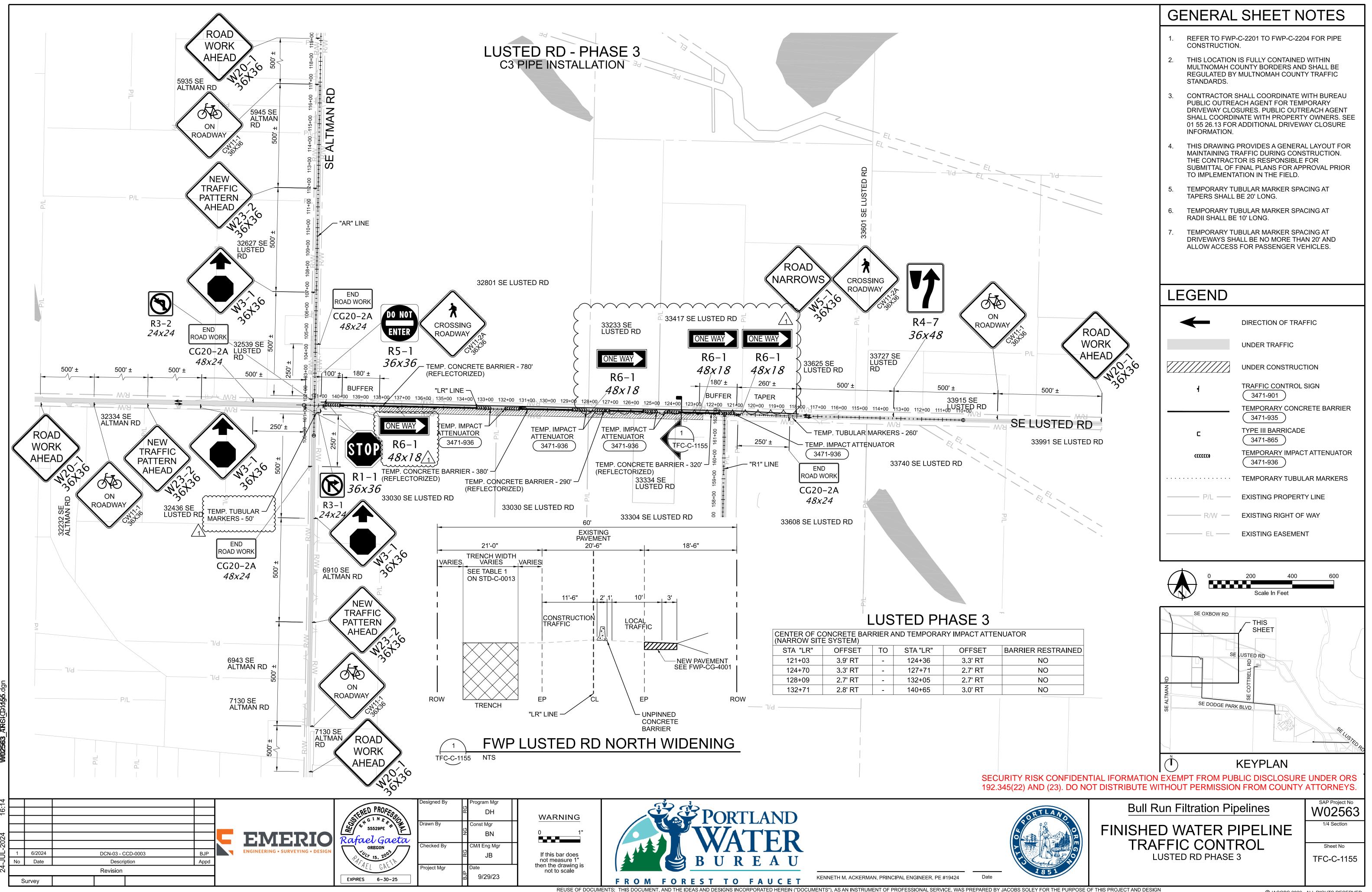


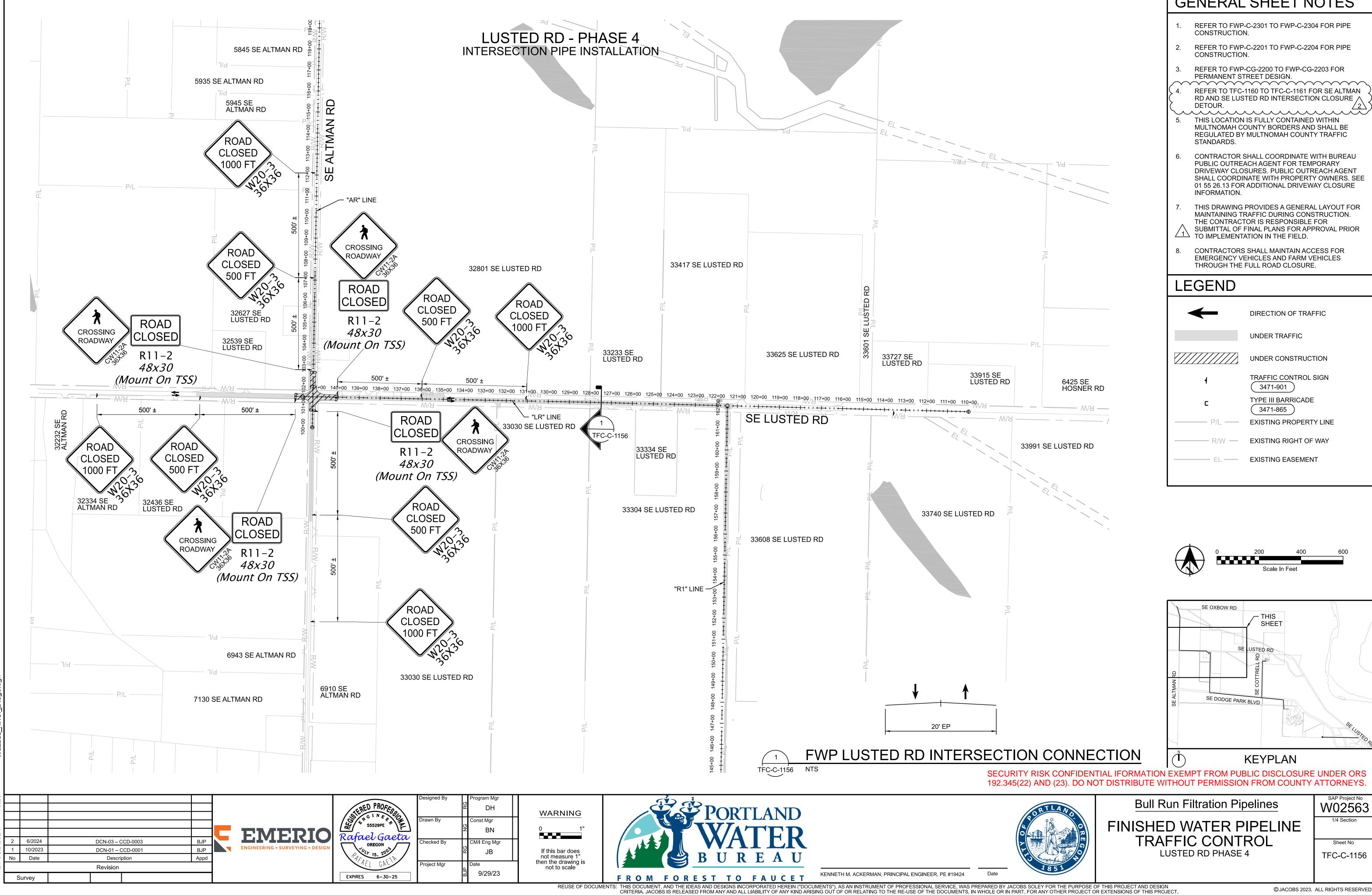




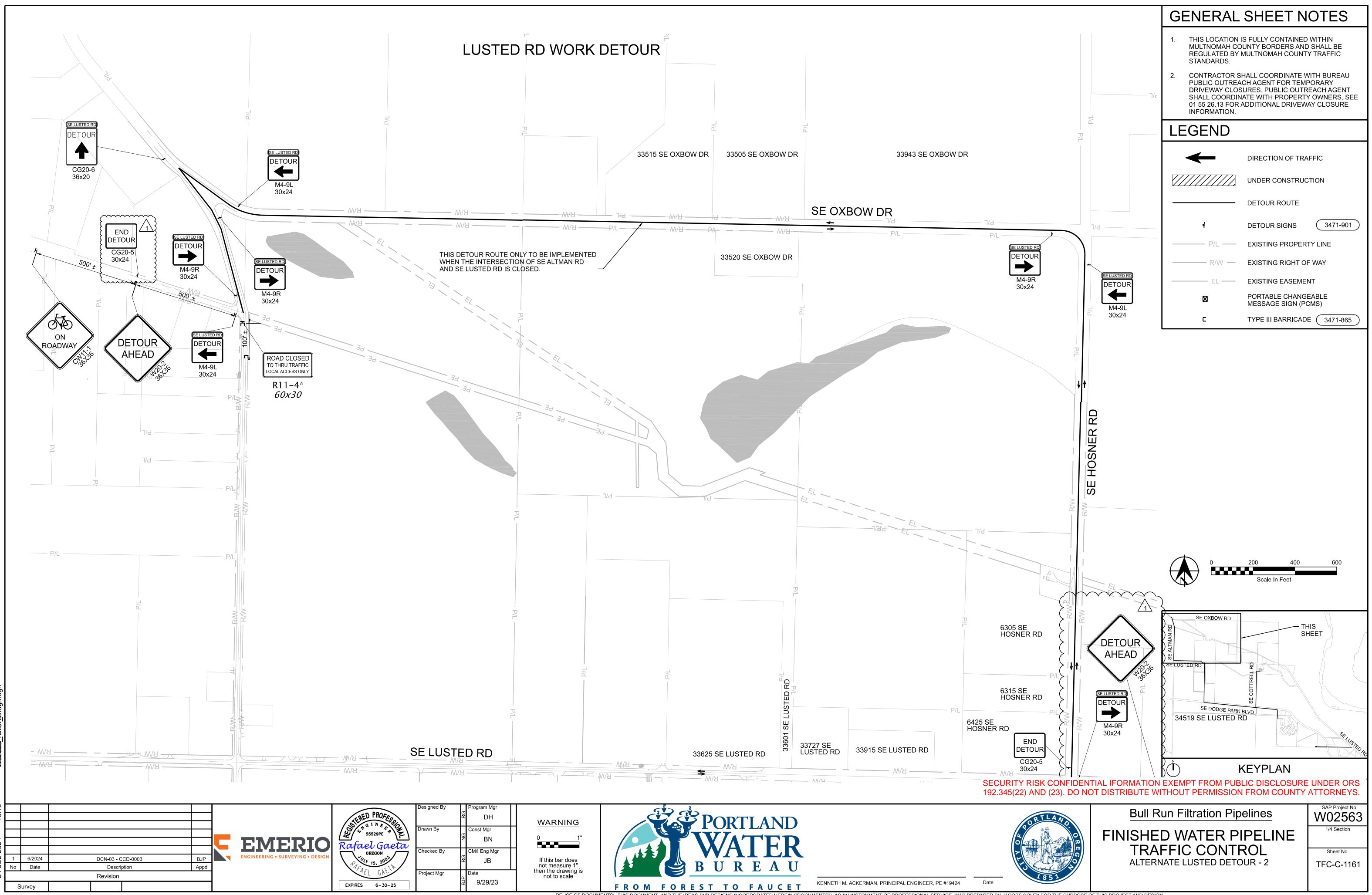


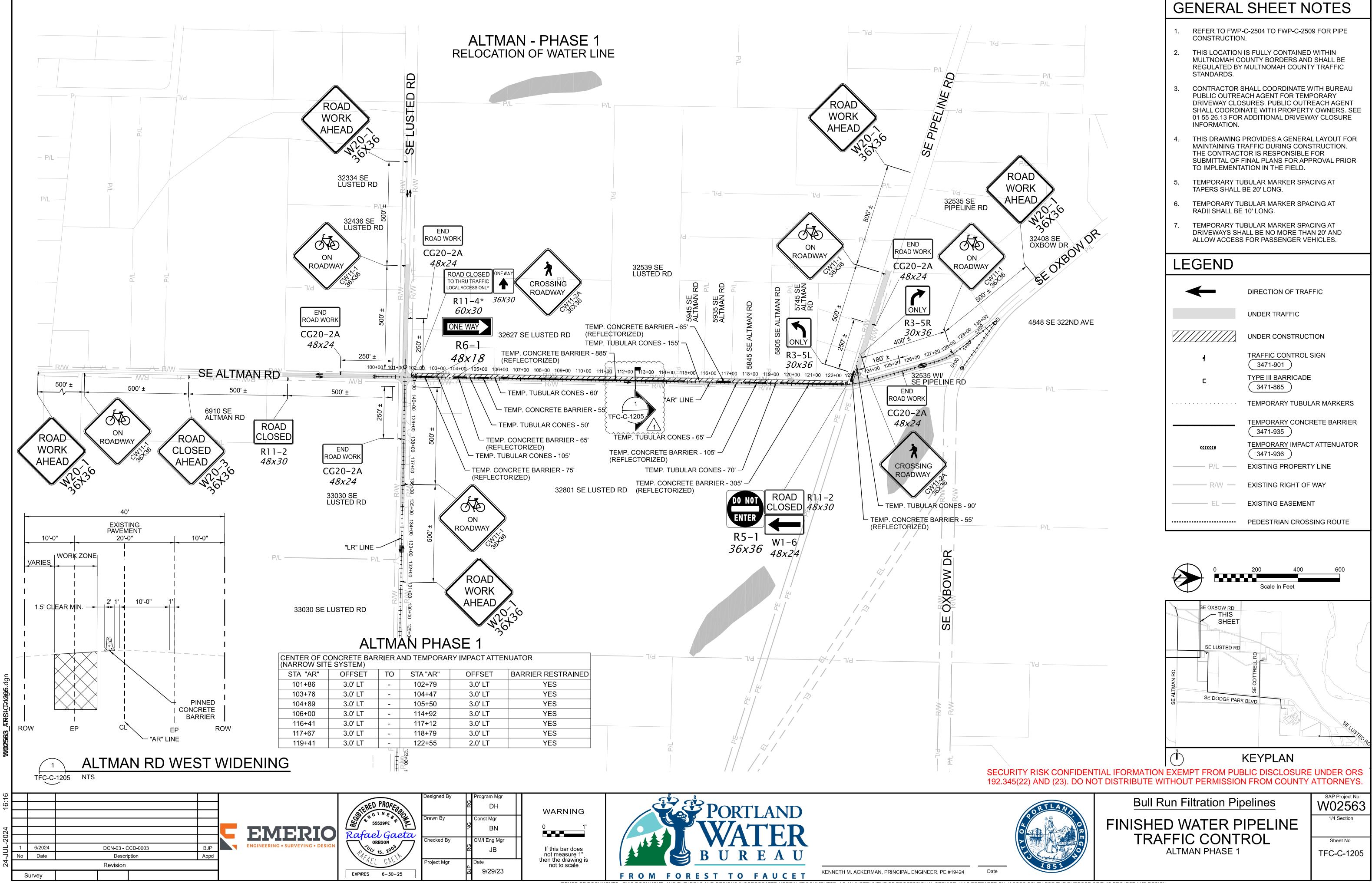
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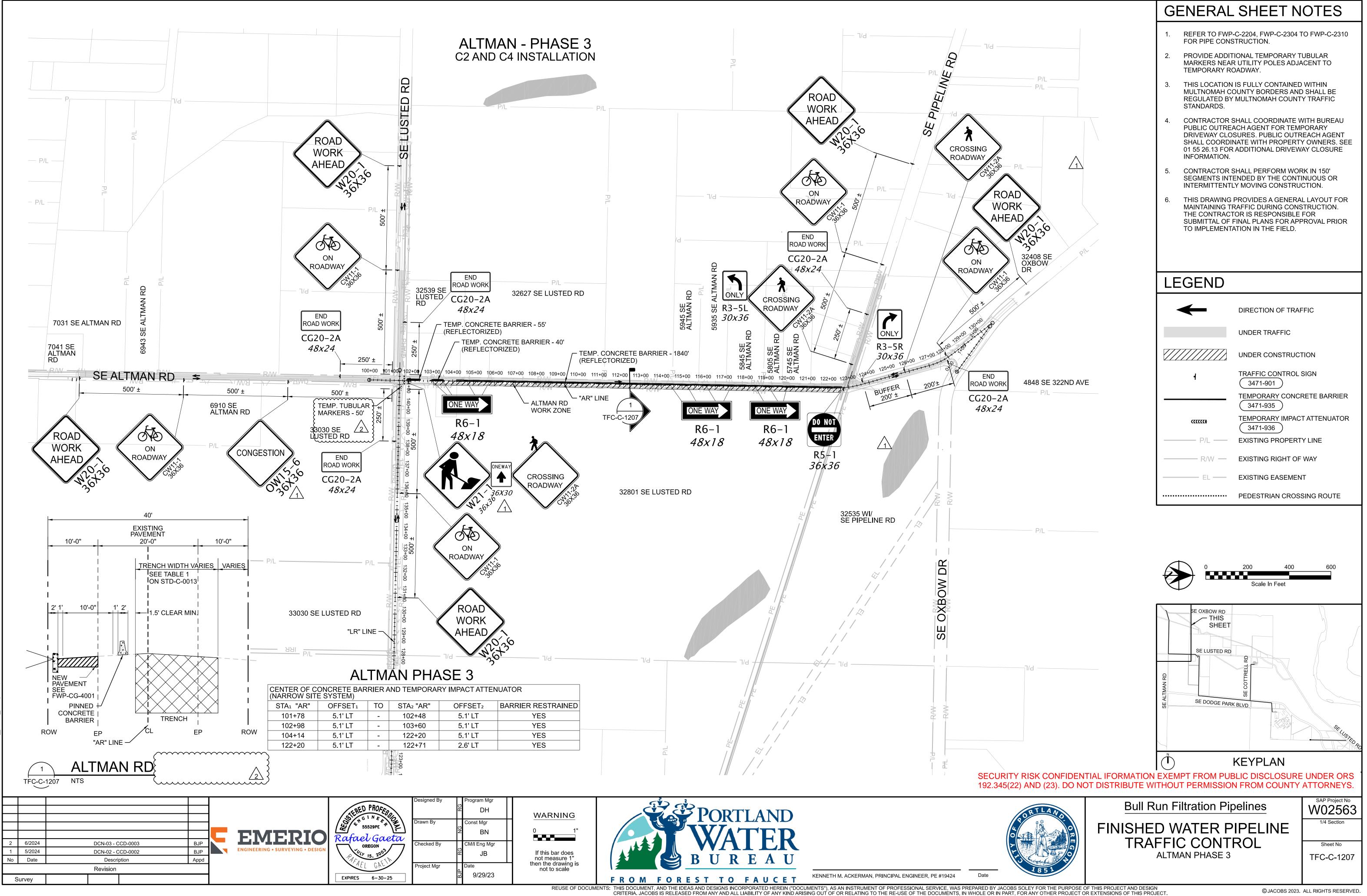


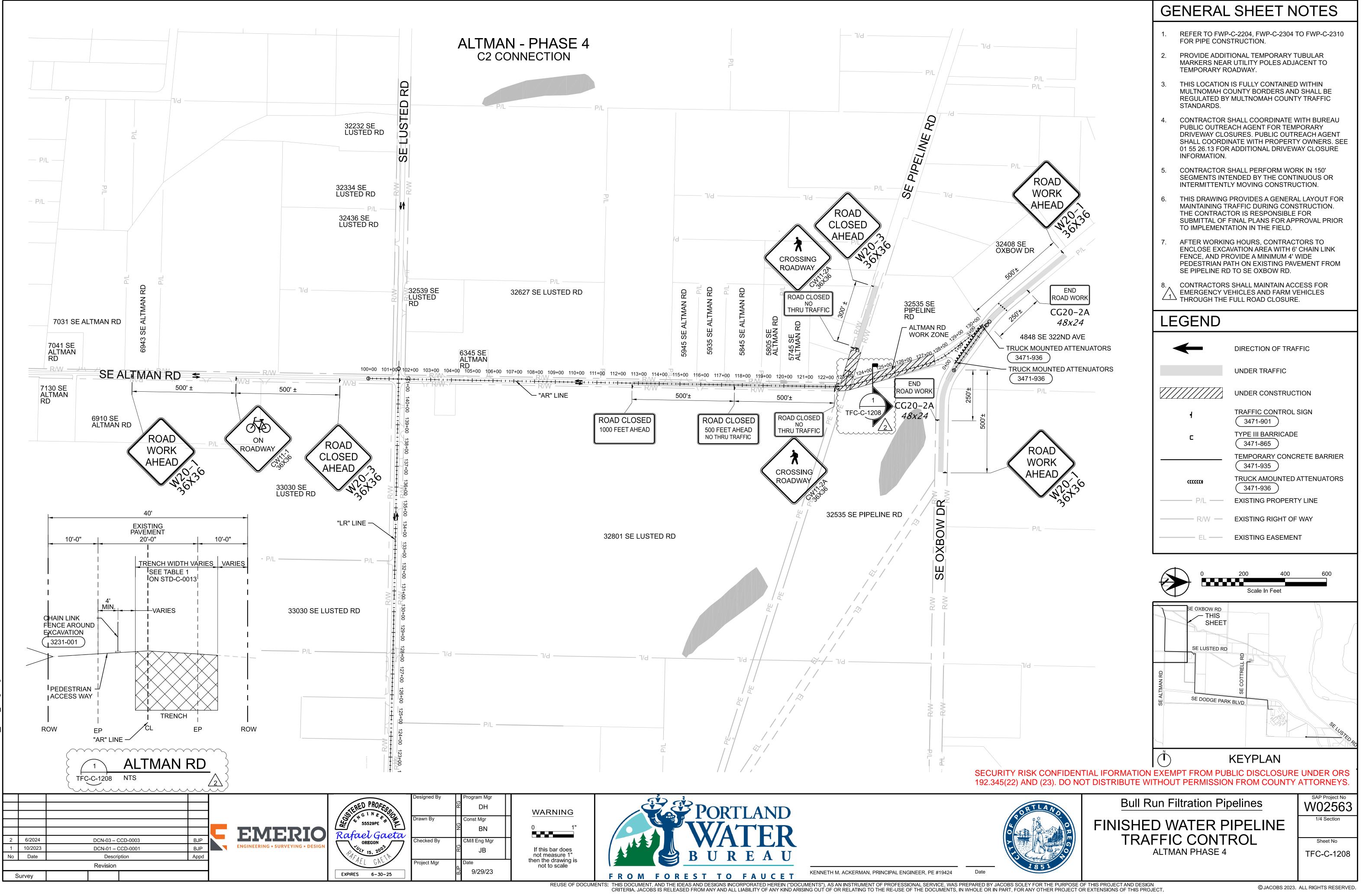


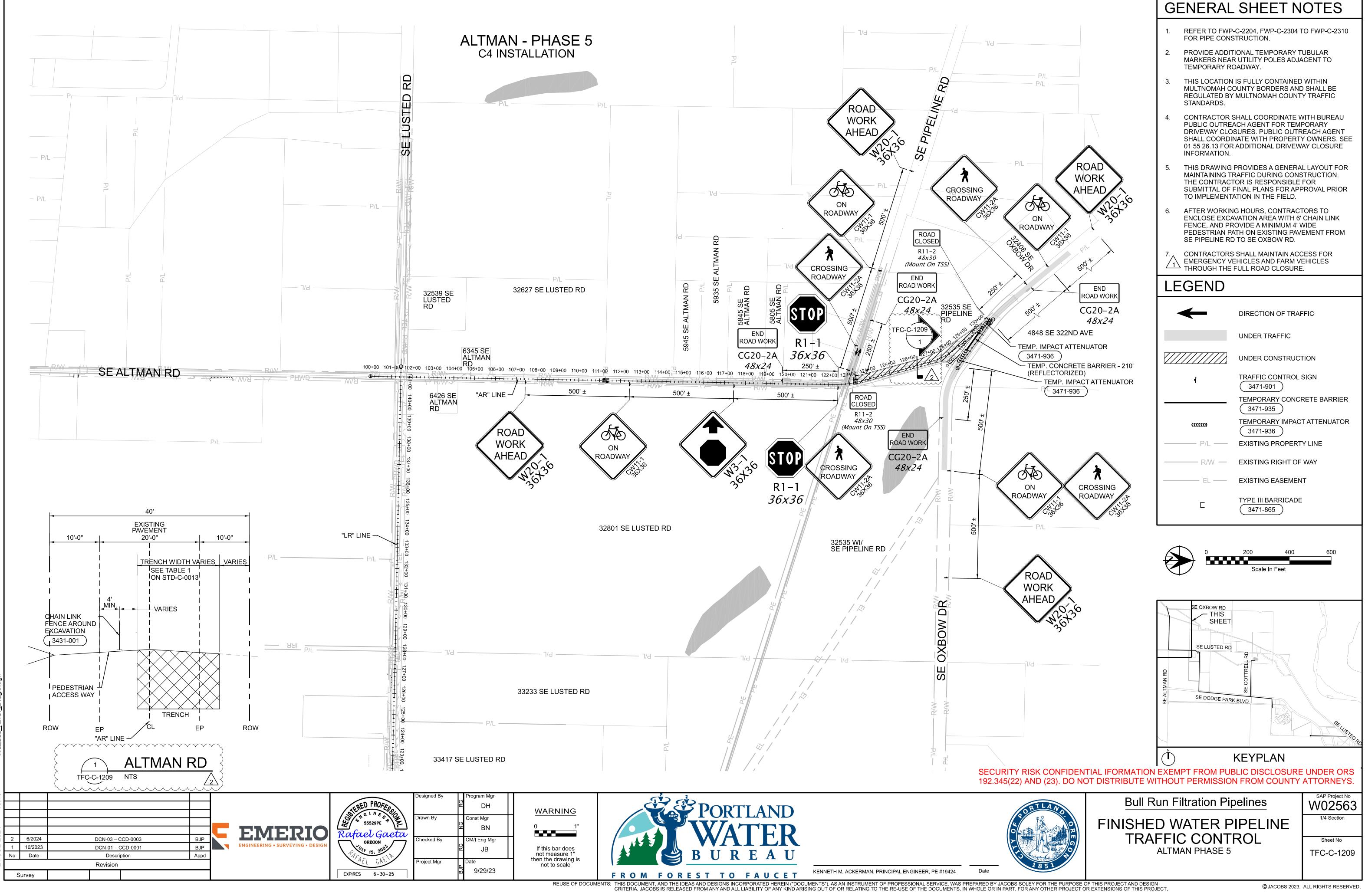
GENERA	L SHEET NOTES
1. REFER TO FW CONSTRUCTI	/P-C-2301 TO FWP-C-2304 FOR PIPE ON.
2. REFER TO FW CONSTRUCTI	/P-C-2201 TO FWP-C-2204 FOR PIPE ON.
	/P-CG-2200 TO FWP-CG-2203 FOR STREET DESIGN.
· · · · · · · · · · · · · · · · · · ·	C-1160 TO TFC-C-1161 FOR SE ALTMAN JSTED RD INTERSECTION CLOSURE
MULTNOMAH	ON IS FULLY CONTAINED WITHIN COUNTY BORDERS AND SHALL BE BY MULTNOMAH COUNTY TRAFFIC
PUBLIC OUTR DRIVEWAY CL SHALL COORI	R SHALL COORDINATE WITH BUREAU EACH AGENT FOR TEMPORARY OSURES. PUBLIC OUTREACH AGENT DINATE WITH PROPERTY OWNERS. SEE OR ADDITIONAL DRIVEWAY CLOSURE N.
MAINTAINING THE CONTRA SUBMITTAL O	G PROVIDES A GENERAL LAYOUT FOR TRAFFIC DURING CONSTRUCTION. CTOR IS RESPONSIBLE FOR F FINAL PLANS FOR APPROVAL PRIOR ITATION IN THE FIELD.
EMERGENCY	RS SHALL MAINTAIN ACCESS FOR VEHICLES AND FARM VEHICLES E FULL ROAD CLOSURE.
LEGEND	
←	DIRECTION OF TRAFFIC
	UNDER TRAFFIC
	UNDER CONSTRUCTION
4	TRAFFIC CONTROL SIGN
С	TYPE III BARRICADE
P/L	EXISTING PROPERTY LINE
———— R/W —	EXISTING RIGHT OF WAY
———— EL ———	EXISTING EASEMENT
	200 400 600 Scale In Feet
SE OXBOW RD	THIS SHEET SE LUSTED RD

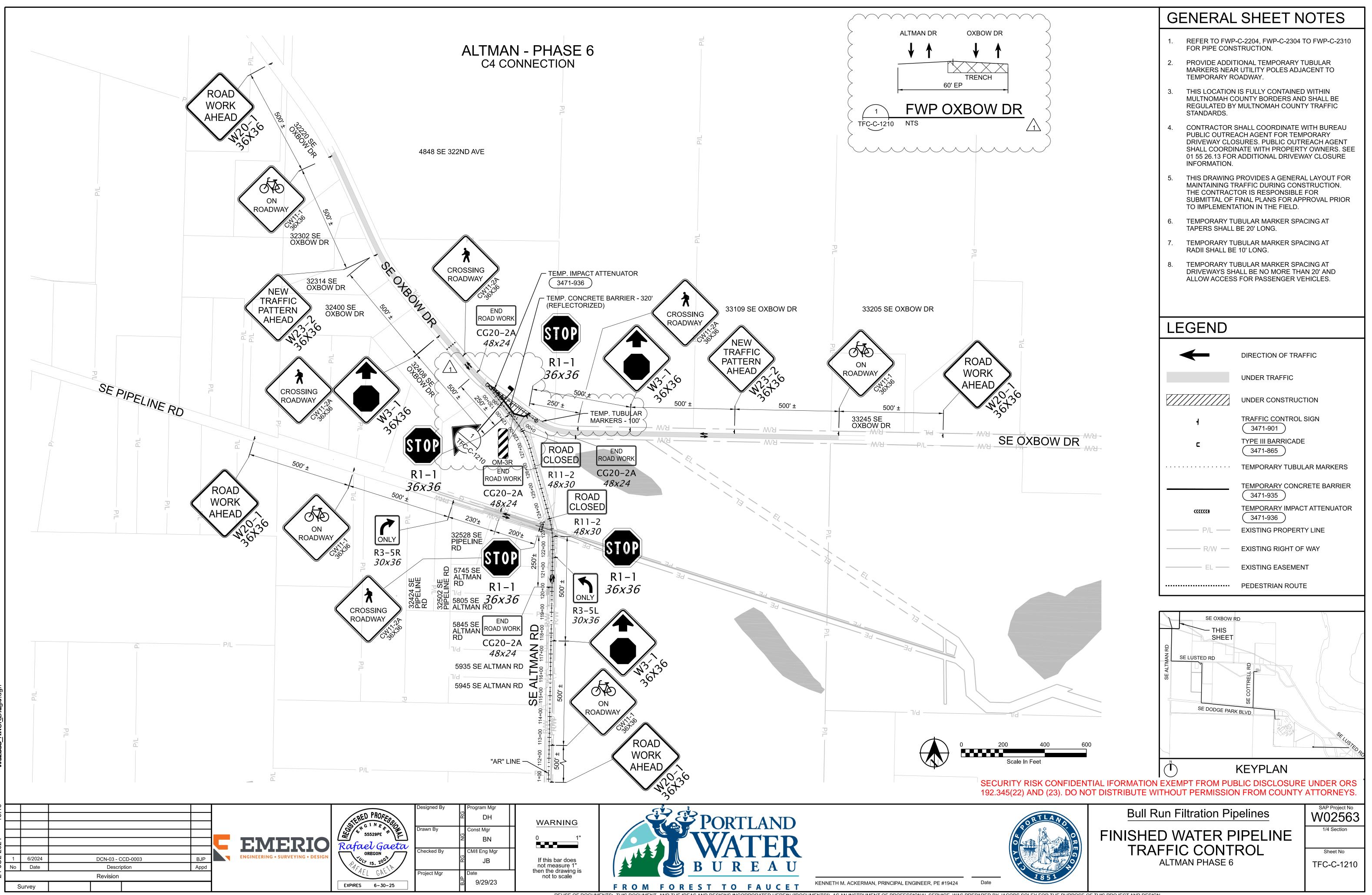




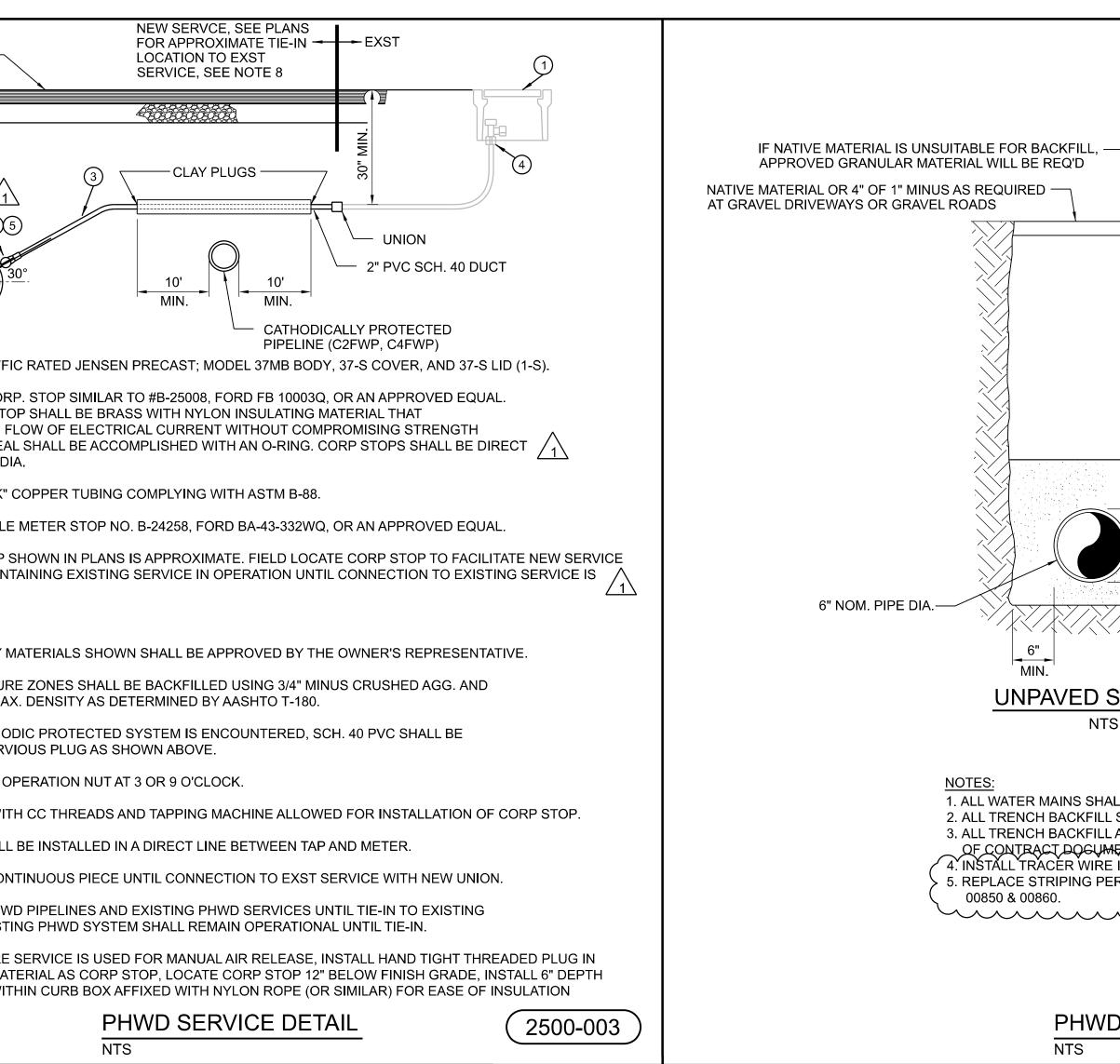








GENER	L NOTES FOR PHWD FACILTIES:		
CON SEAL FITTI OR C FULL ELEC	ER MAINS SHALL BE POLYETHELENE WRAPPED RESTRAINED CLASS 52 DUCTILE IRON PIPE FORMING TO AWWA C151. PIPE SHALL HAVE DOUBLE CEMENT MORTAR LINING AND BITUMINOUS COAT CONFORMING TO AWWA C104. JOINTS SHALL BE FULLY RESTRAINED MECHANICAL. PIPE NGS SHALL BE RESTRAINED DUCTILE IRON MECHANICAL JOINTS, CONFORMING TO AWWA C110 153, AND OF DOMESTIC ORIGIN. PIPE SHALL BE LAID SUCH THAT IT IS SUPPORTED ALONG ITS LENGTH, INCLUDING DIGGING OF "BELL HOLES". BOND ALL NEW DUCTILE IRON PIPE TO FORM A TRICALLY CONTINUOUS PIPE AS SHOWN IN DETAIL 2642-852.		A.C. —
	ER MAINS SHALL HAVE A MINIMUM COVER OF 42".		
VALV SAW BOXI OF H MOR OPEI	E VALVES (4" THROUGH 12") SHALL BE RESILIENT-SEATED TYPE CONFORMING TO AWWA C509. E BOXES SHALL BE VANCOUVER 910/18-INCHES LONG WITH 6" P.V.C. 3034 AS BOTTOM SECTION. CUT A LINE IN VALVE BOX FLANGE SO THAT THEY ARE PARALLEL WITH THE PIPELINE. VALVE ES THAT ARE LOCATED OUTSIDE AREAS TO BE PAVED SHALL HAVE A 2' X 2' X 6" THICK COLLAR OT ASPHALT PLACED AROUND THEM. WHERE THE TOP OF THE VALVE OPERATING NUT IS 48" OR E BELOW FINISHED GRADE, OPERATING EXTENSIONS SHALL BE PROVIDED TO BRING THE RATING NUT TO A POINT 18" BELOW FINISHED GRADE. THE EXTENSION STEM SHALL BE STRUCTED OF STEEL.	. DUC	NA RESTRAINED CTILE IRON MAINLINE KEYED NOTES:
	ING SLEEVES SHALL BE EITHER EPOXY-COATED STEEL WITH STAINLESS STEEL BOLTS OR ILESS STEEL FULL CIRCLE TAPPING SLEEVE.		
CRU LESS MAX	NULAR MATERIAL USED FOR PIPE BASE, PIPE ZONE AND TRENCH BACKFILL SHALL BE ³ / ₄ " - 0" SHED ROCK. PIPE BASE SHALL BE A MINIMUM OF 4-INCHES DEEP AT THE PIPE BARREL AND NOT THAN 3-INCHES DEEP AT THE BELL. GRANULAR BACKFILL SHALL BE COMPACTED TO 95% MUM DENSITY PER ASTM D1557 TEST METHOD AND NATIVE MATERIAL SHALL BE COMPACTED 5% OF IN-PLACE DENSITY OF SURROUNDING SOIL.		(2) MUELLER INSULATING CO THE INSULATING CORP ST EFFECTIVELY STOPS THE OF SERVICE LINE. THE SE TAP IF SMALLER THAN 2" [
PERS AFTE PRES	ECTION OF THE WATER IMPROVEMENTS WILL BE MADE BY PLEASANT HOME WATER DISTRICT SONNEL OR OTHERS DESIGNATED BY THE DISTRICT. THE PRESSURE TEST IS TO BE MADE IR ALL SERVICES ARE INSTALLED, CURBS ARE IN AND ROAD BASE ROCK IS PLACED. TEST SURE SHALL BE 1.5 TIMES STATIC PRESSURE (MINIMUM 150 PSI) AT THE LOWEST POINT IN THE FEM BEING TESTED; 30 MINUTE DURATION; NO PRESSURE LOSS.		 ③ 1" SOFT TEMPER, TYPE "K" ④ EXISTING MUELLER, ANGL ⑤ LOCATION OF CORP STOP INSTALLATION WHILE MAIN
WITH	ATERIALS, INSTALLATIONS, TESTS AND CHLORINATION SHALL BE IN STRICT ACCORDANCE THE STANDARDS AND CODES OF THE PLEASANT HOME WATER DISTRICT AND THE OREGON E HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333.		COMPLETE. <u>NOTES:</u>
8. TEST NOTI	AND DISINFECT WATER MAINS IN ACCORDANCE WITH SECTION 01 74 30. PROVIDE CONCURREN FICATIONS AND SUBMITTALS TO PHWD WITH PORTLAND WATER BUREAU OWNER'S RESENTATIVE FOR TESTING AND DISINFECTION PLANS FOR NEW WATER MAINS.	ΙТ	 SUBSTITUTES FOR ANY ALL PIPE AND STRUCTU COMPACTED TO 95% M/
	FY PHWD 30 DAYS PRIOR TO INTENDED DATE OF PLACING NEW WATER MAINS INTO SERVICE.		3. WHEN AN ACTIVE CATH
SEC	/IDE AS-BUILT SURVEY AND RECORD DOCUMENTS IN ACCORDANCE WITH SPECIFICATION TONS 01 71 23 AND 01 78 39. DRAWINGS FWP-C-2501 THROUGH FWP-C-2510 WILL BE PROVIDED 1 D SEPERATELY FROM THE BALANCE OF THE PROJECT DRAWINGS.	го	INSTALLED WITH IMPER
	STRUCT THE WORKS IN ACCORDANCE WITH SECTION 33 12 13 WATER SERVICE CONNECTIONS		5. ONLY APPROVED BIT WI
AND EXPL	PORTLAND WATER BUREAU STANDARD DETAILS WHERE PHWD STANDARD DETAILS ARE NOT ICIT.		6. COPPER SERVICE SHAL 7. COPPER TO BE ONE CO
	TAIN WATER SUPPLY TO EXISTING WATERLINES AND SERVICES WHILE NEW PHWD FACILITIES AF ALLED. SEQUENCE NEW PHWD PIPELINE AND SERVICE TIE-INS TO EXISTING SUCH THAT NO	RE	8. PROTECT EXISTING PH
SER	ICE IS SHUTDOWN FOR MORE THAN 4 HOURS MAXIMUM. NOTIFY PHWD 72 HOURS PRIOR TO AN ER SYSTEM SHUTDOWN.		PHWD FACILIITES. EXIS
			9. FOR LOCATIONS WHERI CORP STOP OF SAME MA OF RIGID INSULATION WI REMOVAL.
			<u>NOTES:</u> 1. CURB, GUTTER, PLANT
			2. FIRE HYDRANTS SHALL GUARDIAN WITH 6" MJ
			TWO 2½" OUTLETS. PU 3. HYDRANT COLOR SHAL
	STATION ECLIPSE #88		4. ALL MJ'S ON TEE, VALV
	ROW CURB BOX	t	GLANDS OR APPROVE ALL PIPE AND FITTINGS SHOE UNLESS PIPE RU
			5. MIN. 4' CU. FT. OF 1-½"-
		6'	ABOVE DRAIN OUTLET 6. BURY OF HYDRANT SHA HYDRANT SHALL HAVE
	CORP STOP	2'6" BURY	REPRESENTATIVE. 7. HYDRANT VALVE SHALL
		J	EQUAL.
		3/4" COPPER	8. WHERE NO SIDEWALK THICK CONC. PAD ARC HYDRANT BARREL WH
NOTES:	E 2'x2'x4" THICH CONC PAD AROUND SAMPLING STATION. EXPANSION	INLINE CURB STO	
	E 2X2X4" THICH CONC PAD AROUND SAMPLING STATION. EXPANSION TMATERIAL SHALL BE PLACED AROUND SAMPLING STATION.		
	PHWD SAMPLING STATION DETAIL	2500-010	
		EDED PROJ	Designed By Program
		S S S S S S S S S S S S S S	Designed By Program
2 7/2	D24 DCN-03 - CCD-0003 BJP Jacobs.	Digitally S	igned of a
1 10/2	DescriptionBJPAppd	M/CHELLE	
Surve	Revision	EXPIRES: 12/	
JULINE			



ER STRIP, AND SIDEWALK ONLY WHERE APPLICABLE. SEE PLANS.

BE MUELLER CENTURION, M & H 949 RELIANT OR CLOW F-2500 OR KENNEDY INLET AND 5 $1\!\!\!/_4$ " VALVE OPENING. FIRE HYDRANTS ARE TO HAVE A 4 $1\!\!\!/_2$ " AND MPER OUTLET TO FACE THE DIRECTION OF ACCESS.

LL BE YELLOW SHERWIN WILLIAMS GCC-5006, OR APPROVED EQUAL.

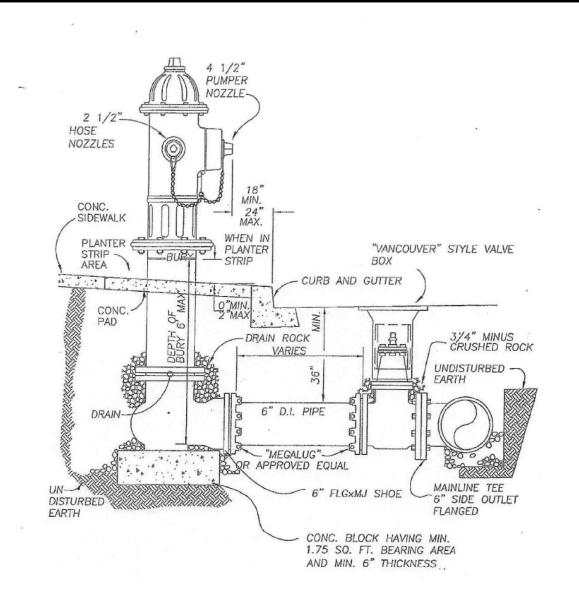
E AND FIRE HYDRANT SHALL BE RESTRAINED WITH "MEGALUG" FOLLOWER D EQUAL. RESTRAIN MIN. 10 LF OF PIPE EACH SIDE OF TEE ON MAIN LINE AND S RESTRAIN ON THE BRANCH SIDE OF TEE. NO JOINTS BETWEEN VALVE AND UN LENGTH IS OVER 18 LF.

-3/4" CLEAN DRAIN ROCK SHALL BE PLACED AROUND SHOE UP TO A MIN. OF 6" "S

ALL BE MEASURED FROM BURY LINE TO BOTTOM OF CONNECTING PIPE. E A MAX. OF A 6' BURY, UNLESS OTHERWISE APPROVED BY OWNER'S

L BE MUELLER RESILIENT WEDGE GATE VALVE #A-2360-16 OR APPROVED

EXISTS AROUND A HYDRANT, INCLUDING A PLANTER STRIP, PLACE A 5'x5'x4" OUND HYDRANT. EXPANS!ON JOINT MATERIAL SHALL BE PLACED AROUND IEN PLACED IN CONCRETE.



PHWD FIRE HYDRANT DETAIL

NTS

25(SECUP 192.34

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DH	
	WARNING
Mgr	
BN	0 1"
211	
ng Mgr	
JB	If this bar does
00	not measure 1"
	then the drawing is
29/23	not to scale
23/23	



KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424

Date

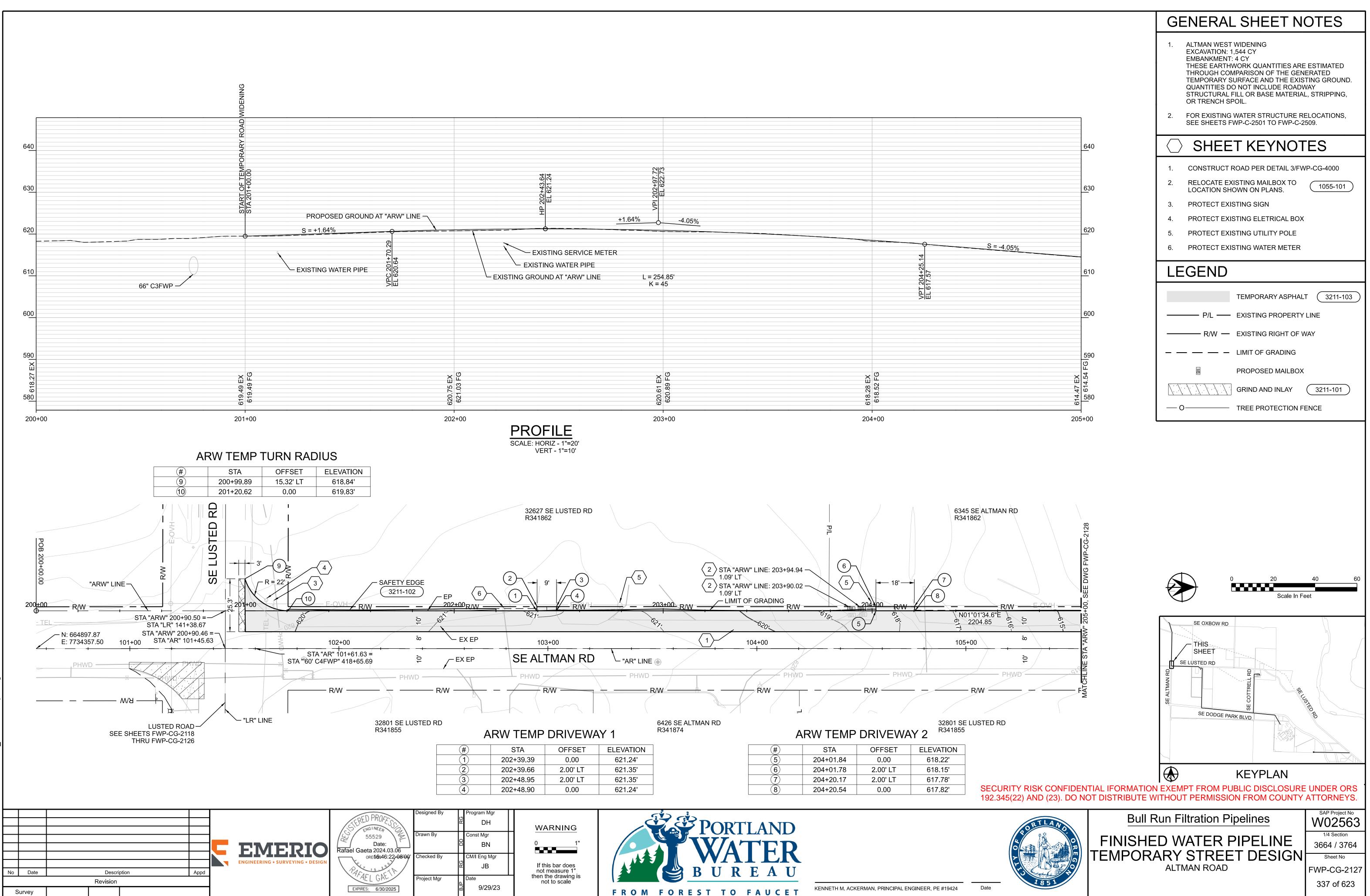
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$\left\{ \begin{array}{c} \\ \end{array} \right\}$		GRIND AND REI MIN 2" DEPTH T WIDTH PLUS 2'-	MOVE FRENCH -0"	$\langle \rangle$
	-		 	
				/ DEPTH OF LEVEL 3, 2 DENSE GRADED
	2			MAC WITH PG 64-22 INDER, OR MATCH XISTING DEPTH /HICHEVER IS
GRADED OR MATO WHICHE	TH OF 1"-0 DENSE AGGREGATE BASE CH EXISTING DEPTH VER IS GREATER PER			REATER PER IULTNOMAH CO. TANDARD
S MULTNO	MAH CO. STANDARD			— 3/4" MINUS
				4
	PIPE ZONE — & BEDDING (3/4" MINUS)			<u> </u>
o ¹	6" NOM. PIPE DIA.——			
6" MIN.		<u>6"</u> MIN.	<u>6"</u> MIN.	Ţ
ECTION		PAVED S	ECTION	
L HAVE A MIN. COVER OF 4 SHALL BE COMPACTED TO 1 AND PATCHING SHALL CON FMTS EXCEPT WHERE NOT	95% OF MAX. DENSITY F	PER ASTM D1557.		
IN ACCORDANCE WITH SPE R OREGON STANDARD SPE	CIFICATIONS.	STRUCTION SECTION \wedge	}	
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RITY RISK CONFIDEN	TIAL IFORMATION		ION FROM COUN	RE UNDER ORS Y ATTORNEYS. SAP Project No W02563
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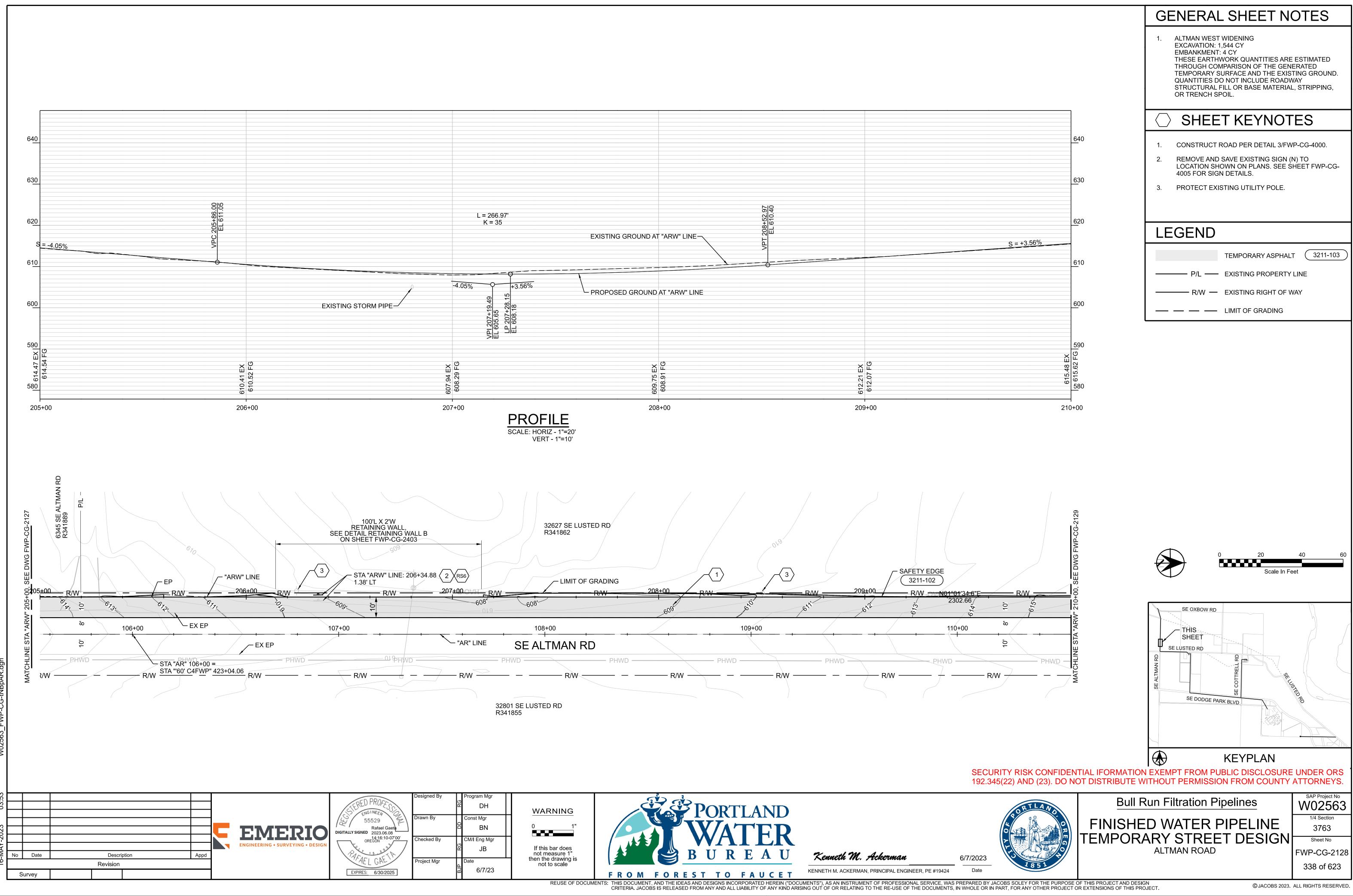
EF	ROSION AND SEDIMENT CONTROL NOTES (AL	LL	SECTIONS REFERENCING DEQ 1200-C	ΑP	<u>'ERMI</u>	<u>T)</u>	B	//P MATRI>	(FOR CO
1.	ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.c.i). IN ADDITION, INCLUDE A LIST OF PERSONNEL (BY NAME AND	26.	PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17a)		SITE WHE LONGER LOOSE ST	E TEMPORARY STABILIZATION FOR THAT PORTION OF THE ERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH	YEAR		MASS
	POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4C.ii).	27.	IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)	Т	UNTIL WC 2.2.20)	ORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2	PHASE/BMP	CLEARING	GRADING
2.	VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200- //CA PERMIT REQUIREMENTS. (SECTION 6.5)	28.	PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)	42.	UNTIL PE	REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES ERMANENT VEGETATION OR OTHER COVER OF EXPOSED S ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND			
3.	INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CA PERMIT REQUIREMENTS. (SECTION 6.5q)	<u>29</u> .	IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL		THE SITE RETAINED	E IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND D MOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED IG TERM USE FOLLOWING TERMINATION OF PERMIT	GROUND COVER	X	X
4.	RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON		PREVENTION AND PROPER DISPOSAL PROCÉDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL		COVERAG	GE. (SECTION 2.2.21)	PLASTIC SHEETING	X	X
5.	REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7) THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT.	30	DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3) USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS	43.	PROTECT	DRAIN INLETS, CATCHBASINS, AND AREA DRAINS SHALL BE TED USING THE APPROVED BEST MANAGEMENT PRACTICE ALL TIMES DURING CONSTRUCTION.	DUST CONTROL	X	X
6.	(SECTIONS 4 AND 4.11) THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)		NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9) THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION	44.	CONTROL	VE EROSION CONTROL, DUST CONTROL, AND DRAINAGE L IS REQUIRED AT ALL TIMES. THE COUNTY MAY ORDER GE OF WORK TO EFFECT CORRECTIVE ACTION AT ANY TIME.	TEMPORARY STABILIZATION (STRAW MULCH/HYDROSEED)		X
7.	SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISIONS TO DEQ OR	• • •	MUST FOLLOW PROJECT SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY	45.	CONSTRU	UCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION EATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY	PERMANENT STABILIZATION		
8.	AGENT WITHIN 10 DAYS. (SECTION 4.9) SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT	32.	WATERWAY RIPARIAN ZONE. (SECTION 2.3.5) 22 IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGUALATION,	46.	31. WATERTI	IGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED	BUFFER ZONE (FROM RAVINE)	X	X
0.	EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)	52.	FLOCCULATION, FILTRATION, ETC) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING	L	SOILS FR	ROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT AIN THE SOIL ON-SITE AT A DESIGNATED LOCATION USING			SEDIMENT
9.	CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)		SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVIDCE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATION THE TREATMENT SYSTEM. OBTAIN		MINIMAL	RIATE BMP's; SOIL MUST BE DRAINED SUFFICIENTLY FOR SPILLAGE.	SEDIMENT FENCE (PERIMETER)	X	
10.	IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING		ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATIING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)	6 47.	RESPONS	P AND MAINTAIN ONSITE A WRITTEN SPILL PREVENTION AND SE PROCEDURE.	SEDIMENT FENCE (INTERIOR)	X	
	ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)	33.	TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT		INCLUDE	OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST PROPER STORAGE, APPLICATION, AND DISPOSAL.	STRAW WATTLES	X	X
11.	PRESERVE EXISTING VEGETATION OUTSIDE OF PROJECT LIMITS AS DELINEATED BY TREE PROTECTION FENCING AND SEDIMENT FENCING AND RE-VEGETATE ALL UNPAVED AREAS		SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)	<u>2</u> 49.	OPERATIO CONTAMI	ST APPROVE OF ANY TREATMENT SYSTEM AND ONAL PLAN THAT MAY BE NECESSARY TO TREAT INATED CONSTRUCTION DEWATERING OR SEDIMENT AND	INLET PROTECTION	X	X
	WITHIN THE PROJECT LIMITS. TEMPORARY RE-VEGETATION IS REQUIRED DURING CONSTRUCTION AS INDICATED BELOW AND PERMANENT RE-VEGETATION IS REQUIRED FOLLOWING COMPLETION OF CONSTRUCTION. (SECTION 2.2.5)	34.	AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE	50.	SHOULD	TY IN STORMWATER RUNOFF. ALL CONSTRUCTION ACTIVITIES CEASE FOR THIRTY (30)	DEWATERING		X
12.	MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. 100 FOOT BUFFERS FROM STREAMS AND WATER BODIES SHOWN ON RWP-CE-	35.	SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8) SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD		STABILIZE	R MORE, THE ENTIRE SITE MUST BE TEMPORARILY ED USING VEGETATION OR A HEAVY MULCH LAYER, ARY SEEDING, OR OTHER METHOD.			RUN OFF C
	1001 AND FWP-CE-1010. DISTURBANCE WITHIN THE 100 FOOT BUFFER OF BEAVER CREEK AND WATER BODIES IS MITIGATED WITH BMPS TO ENSURE MINIMUM WATER QUALITY STANDARDS ARE MET. (SECTION 2.2.4)		OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5b)	51.	OR MORE	CONSTRUCTION ACTIVITIES CEASE FOR FIFTEEN (15) DAYS E ON ANY SIGNIFICANT PORTION OF A CONSTRUCTION SITE,	CONSTRUCTION ENTRANCE	X	X
13.	INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE, (SECTIONS 2.1.3)	36.	OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5c)		THE SITE PREVENT	ARY STABILIZATION IS REQUIRED FOR THAT PORTION OF E WITH STRAW, COMPOST, OR OTHER COVERING THAT WILL T SOIL OR WIND EROSION UNTIL WORK RESUMES ON THAT N OF THE SITE.	EXISTING OUTLET PROTECTION	X	X
14.	CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAM BANKS. (SECTIONS 2.1.1 AND 2.2.16)	37.	CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT				NEW OUTLET PROTECTION		X
15.	CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY	38.	AND AT COMPLETION OF PROJECT. (SECTION 2.1.5a) WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION		SF	EC SEEDING	EXISTING CURB INLET CHECK DAMS	X	X
16.	AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.13) ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE		SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT	IT	2335	DTANICAL NAME COMMON NAME			POLLUTION P
	BEGINNING CONCRETE WORK. (SECTION 2.2.14) APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON		SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19)			DMUS CARINATUS CALIFORNIA BROME REX DEWEYANA DEWEY'S SEDGE	HAZARD WASTE MANAGEMENT		
	ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT VEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SECTIONS 2.2.20 AND 2.2.21)	39.	THE INTENTIONAL WASHING OF SEDIMENT INTO STROM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)	Γ	ELYN	SCHAMPSIA ELONGATASLENDER HAIRGRASSMUS GLAUCUSBLUE WLLDRYEJM MACROPHYLLUMLARGE-LEAVED AVENS	SPILL KIT ONSITE		
18.	MATERIAL AND WASTE STORAGE AREAS OUTSIDE OF RIGHTS-OF-WAY WILL BE ESTABLISHED BY THE CONTRACTOR AND EROSION CONTROL MEASURES TO PROTECT MATERIAL AND	40.	DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR LONGER CALENDAR DAYS. (SECTION 6.5.f)		>>>>	CERIA ELATA TALL MANNAGRASS PINUS LATIFOLIUM LARGELEAF LUPINE	CONCRETE WASHOUT AREA		X
	WASTE STORAGE AREAS WILL COMPLY WITH THE EROSION CONTROL CONSTRUCTION DETAILS. MATERIAL WILL NOT BE STOCKPILED WITHIN THE RIGHT-OF-WAY. (SECTION 2.3.7) 2	` IN	ISPECTION FREQUENCY			JNELLA LANCEOLATA SELFHEAL LIMA GRANDIFLORA FRINGE CUPS			
19.	KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE		SITE CONDITION MINIMUM FREQUENCY	<u> </u>	<u>`````````````````````````````````````</u>				
	DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE	1	ACTIVE PERIOD ON INITIAL DATE THAT LAND DISTURBANC COMMENCE.	CE ACT	IVITIES				
20.	DISCHARGE OF POLLÚTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7) PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMP'S SUCH AS:		WITHIN 24 HOURS OF ANY STORM EVENT, RUNOFF FROM SNOW MELT, THAT RESULT FROM THE SITE.						
	CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. PUBLIC ROADS WILL BE SWEPT DAILY.		AT LEAST ONCE EVERY 14 DAYS, REGARD			BOTANICAL NAME COMMON FESTUCA ARUNDINACEA 'TURFWAY' - TUF	RFWAY TALL FESCUE		C LIMNANTHE
	PRIVATE FARM ROADS UTILIZED DURING CONSTRUCTION WILL BE IMPROVED WITH GRAVEL	2	WHETHER STORMWATER RUNOFF IS OCCU INACTIVE PERIODS GREATER THAN THE INSPECTOR MAY REDUCE THE FREQU	UENCY	′ OF	- FESTUCA ARUNDINACEA 'HOUNDOG 8' - HOUNDOG	IOUNDOG 8 TALL FESCUE		
21.	WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.f)		14 CONSECUTIVE CALENDAR DAYS STABILIZATION STEPS IN SECTION 2.2.20 F COMPLETED TO TWICE PER MONTH FOR T	HAVE B	BEEN				
22.	CONTROL PROHIBITED DISCHARGED FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS.		MONTH, NO LESS THAN 14 CALENDAR DAY ONCE PER MONTH.			FILTER STRIP SEEDING			
23.	(SECTIONS 1.5 AND 2.3.9) STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING WILL BE		. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER WATERBODY. INCLEMENT WEATHER	HARGE	E POINT,	Image: A state Image: Bottanical name COMMO Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state Image: A state <t< td=""><td></td><td></td><td></td></t<>			
24.	DELINEATED BY A SEDIMENT FENCE TO PREVENT DISTURBANCE. (SECTION 2.2.10)	4	PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED, IMMEDIATELY RESUME MON			HARDEUM BRACHYANTHERUM MEADOW BA	RLEY		UCA ARUNDINCI. ULOIUM SPP
25.	ARE TO BE INSTALLED. (SECTION 2.2.12) USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS;		SUSPENDED AND RUNOFF ISTHAWING, OR WHEN WEATHER CONDITIONUNLIKELY DUE TO FROZENDISCHARGES LIKELY.			FESTUCA IDAHOENSIS ROMERIID ROEMER'S F	ESCUE		JM PERENNE VA
_01	VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE	5	CONDITIONS. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ADE ONCE A MONITORING INSPECTIONS MAY B			Image: Trifolium fragiferum Strawberf Image: Trifolium fragiferum Strawberf Image: Trifolium fragiferum Farewell t Image: Trifolium fragiferum Farewell t			JM MULTIFLORIU
	FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)		CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS	NS MAI	KE	OENOTHERA ELATA HOOKERI HOOKER'S E DESHAMPSIA CESPITOSA TUFTED HAI		LA_A_A_DAC RISK CONFIDE AND (23). DO N	NTIAL IFORM
			CONDITIONS.			AGROSTIS EXERATA SPIKE BENT	GRASS		
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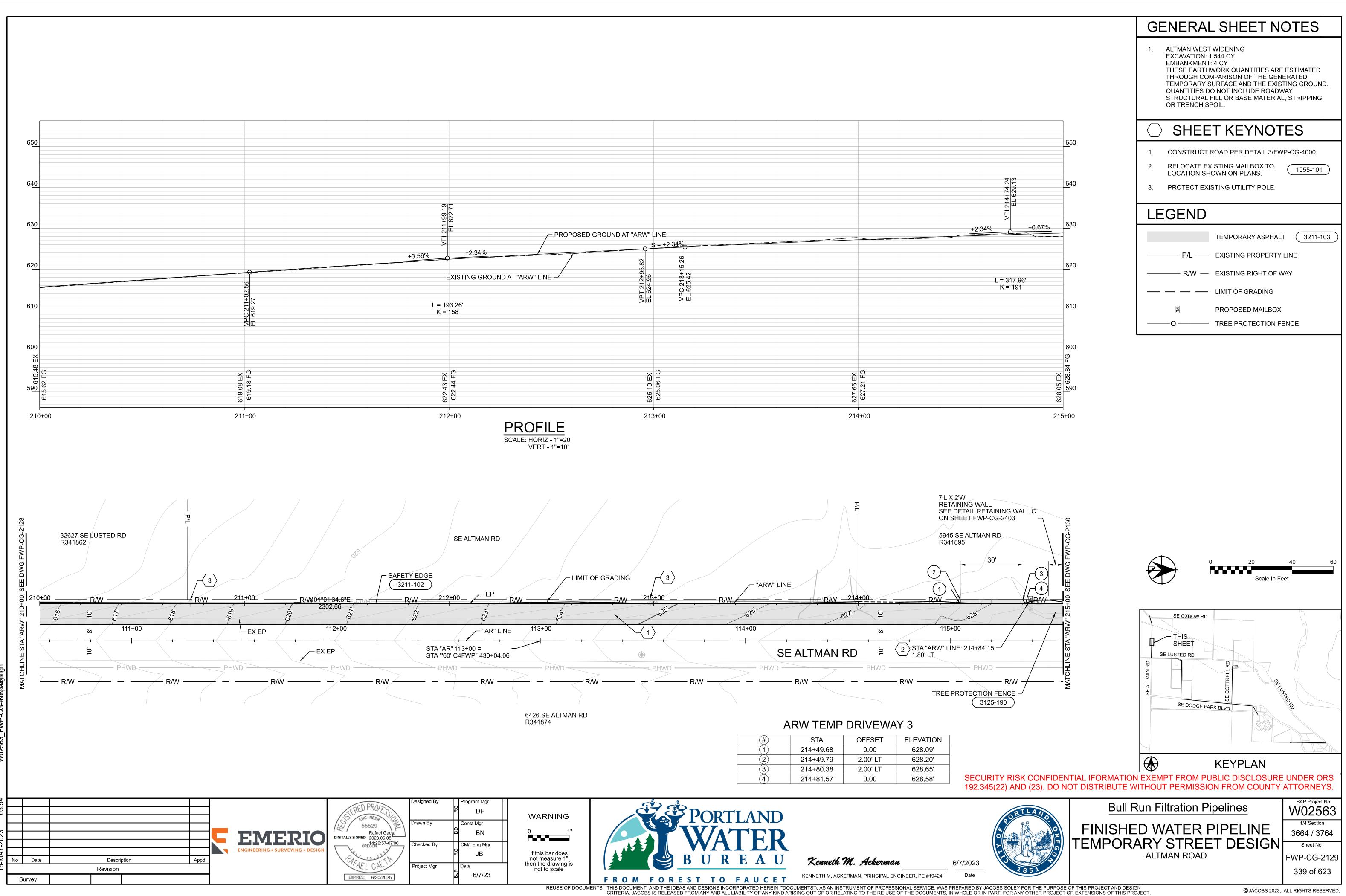


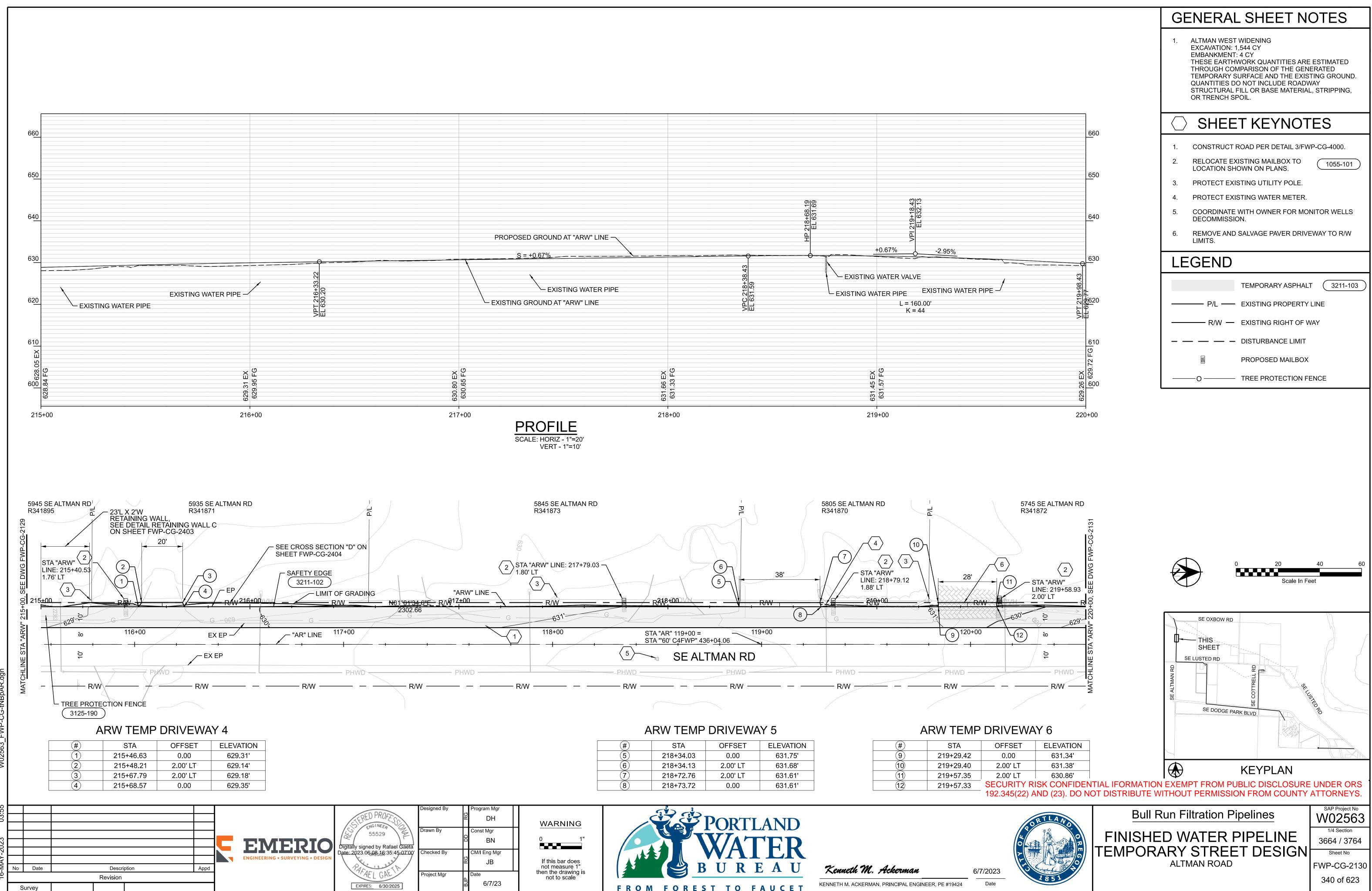
YE	EAR			2024-2027	,	
PHAS	E/BMP	CLEARING	MASS GRADING		VERTICAL CONSTRUCTION	FINAL STABILIZATION
			EROSION PF			
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PLASTIC	SHEETING	X	X	X		
DUST C	ONTROL	X	X	X		
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	(DROSEED) STABILIZATION					X
	(FROM RAVINE)	X	X	X	X	^
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EXISTING CURB II	NLET CHECK DAMS	X	X	X	X	X
				PREVENTION	r	
HAZARD WAST	E MANAGEMENT				X	
SPILL K					X	X
CONCRETE W	ASHOUT AREA	X	X	X	X	
VAY TALL FESCUE INDOG 8 TALL FES ESCUE	CUE		BOTAN FESTUCA F FESTUCA C TRIFOLIUM NEMOPHIL LIMNANTHI ARMERIA N TRIFOLIUM LOBULARIA	I REPENS VAR MICROCLO A MARITIMA MILLEFOLIUM	COMMONSEALINK CREEFAZAY BLUE SHESTRAWBERRY CBABY BLUE EYEDOUGLAS MEAETHRIFT SEAPINIOVER	PING RED FESCUE EP FESCUE CLOVER SS DOWFOAM K M CARPET OF SNO ^N
N NAME EY OME CUE CLOVER SPRING NING PRIMROSE RASS		BC A A A FEST A A A FEST A A A LOLI A A A LOLI	TANICAL FUCA ARUNDINCI FULOIUM SPP UM PERENNE VA UM MULTIFLORIL TYALIS GLOMERI NTIAL IFORM	A VAR ATLAS R AMAZON JM VAR BIG SHOT TETRA TA ATION EXEMPT FRO	SWEET TART F TETRAPLOID A PERENNIAL RY	E TALL FESCUE ESTULOIUM MAZON TETRAPLOI E RAPLOID ANNUAL R CHARDGRASS URE UNDER OR
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	202+48.90	0.00	621.24'	(8)	204+20.54	0.00	617.82'







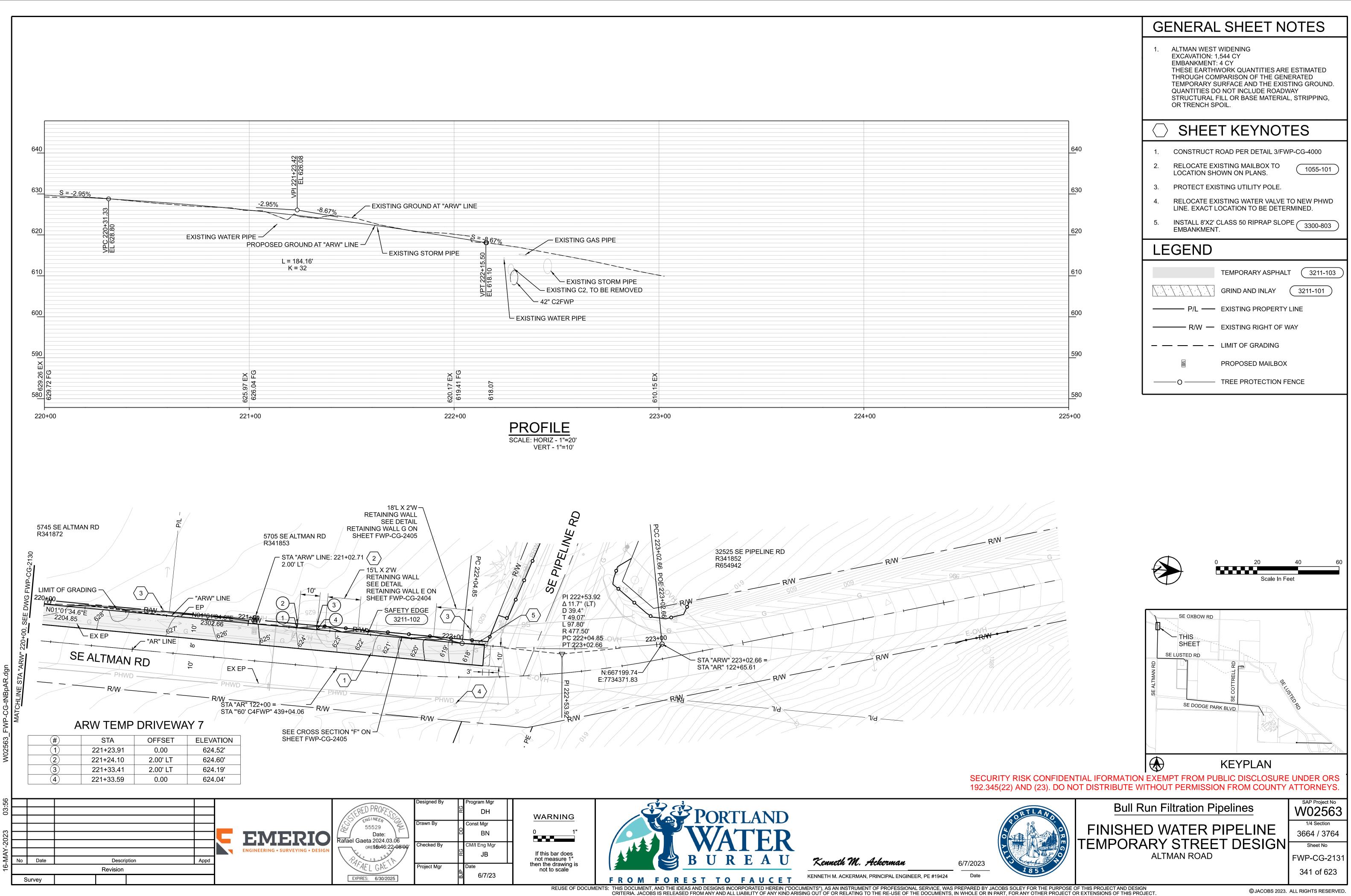
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6	218+34.13	2.00' LT	631.68'
7	218+72.76	2.00' LT	631.61'
(8)	218+73.72	0.00	631.61'

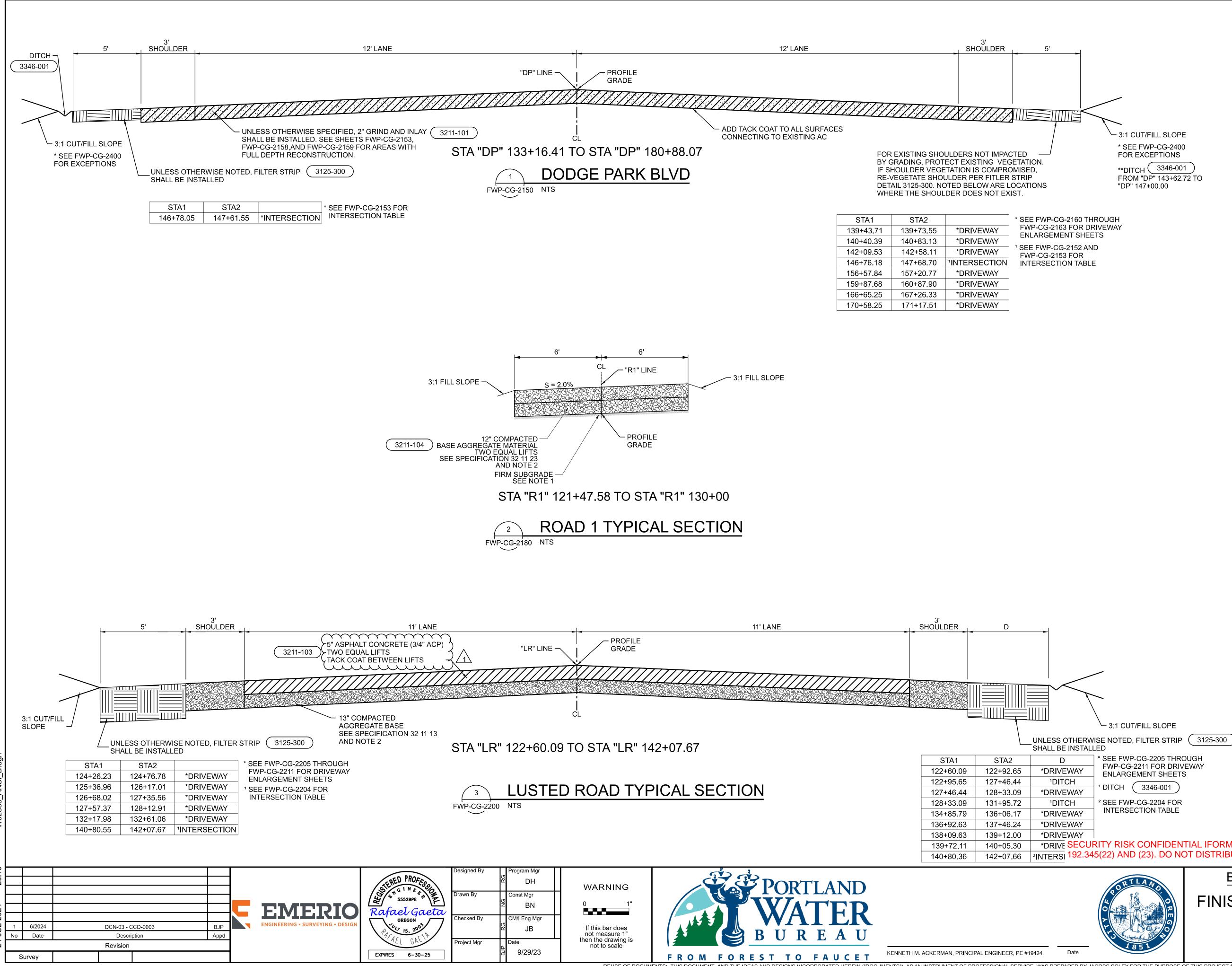
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KENNETH M. ACKERMAN, PRINCIPAL ENGINEER, PE #19424 FROM FOREST TO FAUCET

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FINISHED WATER PIPELINE STREET DESIGN **TYPICAL ROAD SECTIONS**

W02563 1/4 Section

Bull Run Filtration Pipelines

SAP Project No

Sheet No

FWP-CG-4003

*DRIVE SECURITY RISK CONFIDENTIAL IFORMATION EXEMPT FROM PUBLIC DISCLOSURE UNDER ORS ²INTERSI 192.345(22) AND (23). DO NOT DISTRIBUTE WITHOUT PERMISSION FROM COUNTY ATTORNEYS

SEE FWP-CG-2205 THROUGH FWP-CG-2211 FOR DRIVEWAY **ENLARGEMENT SHEETS**

GENERAL SHEET NOTES PREPARE SUBGRADE PER SPECIFICATION 32 11 13 SECTION 3.03. COMPACT BASE AGGREGATE MATERIAL TO 95% COMPACTION PER SPECIFICATION 32 11 23 STORM SEWER NOTES STORM SEWER PIPE SHALL BE THE SIZE NOTED ON THE PLANS. PVC PIPE WILL REQUIRE A 95% MANDREL TEST. CATCH BASINS SHALL BE AS SPECIFIED AND OF THE TYPE SHOWN ON THE DETAIL SHEET. ALL FIELD TILES, GUTTERS, DRAINS, AND FOUNDATION DRAINS ENCOUNTERED SHALL BE CONNECTED TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER. NOTIFY THE COUNTY INSPECTOR OF ANY TILES ENCOUNTERED PRIOR TO THE CONNECTION TO STORM SYSTEM OR OTHER MITIGATION. CONTRACTOR TO PROVIDE PLAN FOR CONTINUOUS FUNCTION OF THE EXISTING STORM SEWER SYSTEM DURING CONSTRUCTION. PAVING NOTES THE CONTRACTOR SHALL ADJUST ALL VALVES BOXES, MANHOLES, AND WATER METERS TO FINISHED GRADE. THE CONTRACTOR SHALL SAWCUT STRAIGHT MATCHLINES TO CREATE A CLEAN BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT SEAL ALL NEW PAVEMENT JOINTS WITH RUBBERIZED SEALANT AGGREGATE BASE SHALL BE COMPACTED PER THE CURRENT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. CONTRACTOR TO HAVE AGGREGATE BASE COMPACTION TESTING CONDUCTED BY A QUALIFIED TESTING FACILITY PRIOR TO PLACEMENT OF ASPHALT CONCRETE WITHIN THE PUBLIC RIGHT-OF-WAY. TEST REPORTS TO BE PROVIDED TO MULTNOMAH COUNTY ASPHALT CONCRETE SHALL BE COMPACTED PER THE CURRENT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTIONS. CONTRACTOR TO HAVE ASPHALT CONCRETE COMPACTION TESTING CONDUCTED BY A QUALIFIED TESTING FACILITY FOR ALL ASPHALT PAVEMENT PLACED WITHIN THE PUBLIC RIGHT-OF-WAY. TEST REPORTS TO BE PROVIDED TO MULTNOMAH COUNTY ALL EXCAVATIONS WITHIN A PAVED STREET OPEN TO TRAFFIC SHALL BE TEMPORARILY RESURFACED AT THE END OF EACH WORK DAY AND PRIOR TO ALLOWING VEHICULAR TRAFFIC ONTO EXCAVATED AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING, MAINTAINING, AND REMOVING TEMPORARY SURFACING MATERIALS. NO MEASUREMENT WILL BE MADE FOR TEMPORARY SURFACING MATERIALS AND IS CONSIDERED INCIDENTAL TO THE OVERALL CONSTRUCTION LONGITUDINAL JOINTS SHALL FALL ON EITHER LANE LINES OR FOG LINES.