

BASIS OF PLAN

THIS SITE PLAN IS BASED ON LIMITED TOPOGRAPHIC AND BOUNDARY SURVEY, PREPARED BY C.E.S. NW INC. DATED 05/30/2019

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BCE, INC. CANNOT ENSURE ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER TO HAVE ALL IMPROVEMENTS FIELD VERIFIED PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF C.E.S. NW INC. PRIOR TO WORK.

SURVEY INFORMATION

LEGAL DESCRIPTION: (PER QUIT CLAIM DEED FILED UNDER RECORDING NUMBER 200105070774)

PARCEL A (2105200320)
EAST 100 FEET OF BLOCK 19, ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO PLAT RECORDED IN BOOK 8 OF PLATS, AT GAME 25, IN PIERCE COUNTY, WASHINGTON.

PARCEL B (2105200350)
WEST 75 FEET OF THAT PART OF BLOCK 20, ACKERSON'S SECOND ADDITION TO PUYALLUP, SITUATED IN THE CITY OF PUYALLUP, ACCORDING TO PLAT RECORDED IN BOOK 8 OF PLATS, AT PAGE 25, IN PIERCE COUNTY, WASHINGTON. (PER ALTA COMMITMENT FOR TITLE INSURANCE ISSUED BY CHICAGO TITLE COMMITMENT NUMBER 0012400-TC DATED MARCH 25, 2014)

2105200361
BLOCK 20, ACKERSON'S SECOND ADDITION TO PUYALLUP. ACCORDING TO PLAT RECORDED IN VOLUME 8 OF PLATS, PAGE 25, RECORDS OF PIERCE COUNTY AUDITOR. EXCEPT THE WEST 150 FEET THEREOF. SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON. (PER REAL ESTATE EXCISE TAX AFFIDAVIT FILED UNDER RECORDING NUMBER 4337181)

(2105200340)
THE EAST 75 FEET OF THE WEST 150 FEET OF BLOCK 20, ACKERSON'S SECOND ADDITION TO PUYALLUP, ACCORDING TO PLAT THEREOF RECORDED IN VOLUME 9 OF PLATS, AT PAGE 25, RECORDS OF PIERCE COUNTY AUDITOR. SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON

BASIS OF BEARINGS:
NAD 83-2011 (EPOCH 2010.00), WASHINGTON STATE PLACE, SOUTH ZONE, (PER THE WASHINGTON STATE REFERENCE NETWORK).

VERTICAL DATUM:
NAD 88 (PER THE WASHINGTON STATE REFERENCE NETWORK)

SITE ADDRESS

2412 INTER AVENUE
PUYALLUP, WA 98371-3306

TAX PARCEL NUMBERS

2105200320, 2105200350, 2105200340, 2105200361

ZONING

ML - LIMITED MANUFACTURING

UTILITIES/SERVICES

WATER:
CITY OF PUYALLUP WATER DIVISION
1100 39TH AVE. SE
PUYALLUP, WA 98374
(253) 841-5505

GAS:
PUGET SOUND ENERGY
8001 SOUTH 212TH STREET
KENT, WA 98032
(253) 395-7065

POWER:
PUGET SOUND ENERGY
8001 SOUTH 212TH STREET
KENT, WA 98032
(253) 395-7065

CONTACTS

OWNER/APPLICANT

THROUGH TERRA
2412 INTER AVENUE
PUYALLUP, WA 98372
CONTACT: RICH HAMILTON
EMAIL: rich@through-terra.com

CIVIL ENGINEERING CONSULTANT:

C.E.S. NW INC.
310 29TH ST N.E., SUITE 101
PUYALLUP, WA 98372
CONTACT: DAN SMITH
(253) 848-4282

SITE SURVEY CONSULTANT:

C.E.S. NW INC.
310 29TH ST N.E., SUITE 101
PUYALLUP, WA 98372
CONTACT: SETH OHARE
(253) 848-4282

ESTIMATED EARTHWORK QUANTITIES:

CUT: 2,300 CY
FILL: 140 CY
EXPORT: 2,160 CY

AREA TO BE DISTURBED = 81,425 SF (1.87 AC)

EARTHWORK QUANTITIES ARE APPROXIMATE AND HIGHLY DEPENDANT ON SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR SHOULD PERFORM INDEPENDENT ESTIMATE FOR BIDDING.

TRENCH NOTE

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)(b), IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND CES NW INC. ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

SOILS REPORT NOTES

- THE FOLLOWING SOILS REPORTS/ASSESSMENTS WERE PREPARED FOR THE SITE: GEOTECHNICAL EVALUATION, REPORT NO. ES-6481 DATED: FEB 12TH 2019, APRIL 27TH 2021, AND AUGUST 3, 2021:

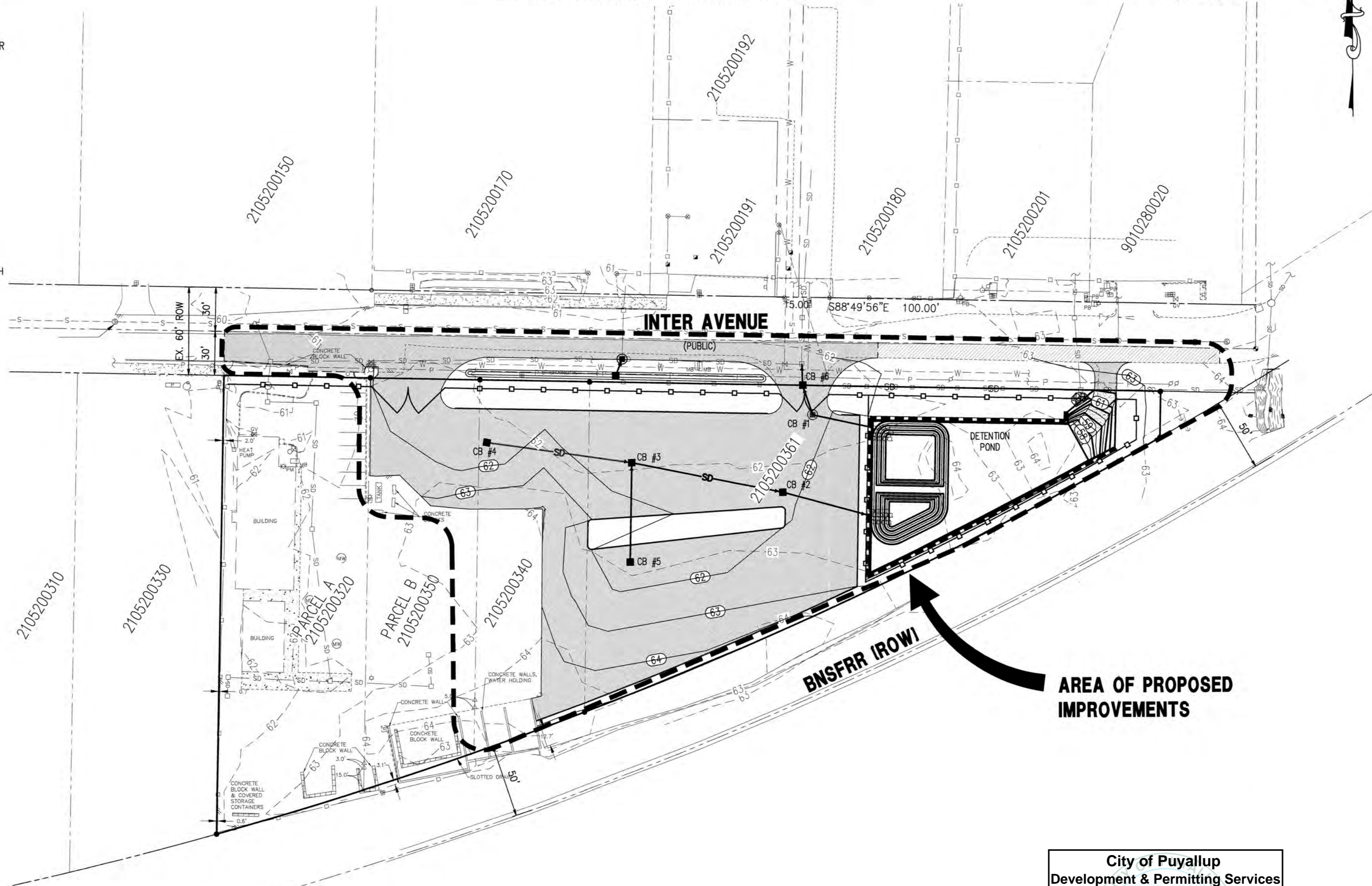
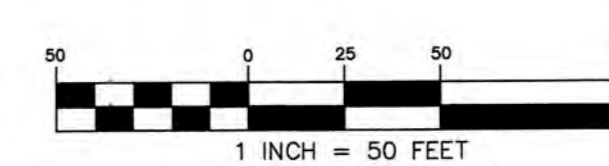
BEST PARKING LOT CLEANING, INC
2412 INTER AVENUE
PUYALLUP, WA 98372

PREPARED BY:
EARTH SOLUTIONS NW, LLC
1805-136TH PL. N.E., SUITE 201
BELLEVUE, WA 98005
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, AND PAVING CONSTRUCTION.
- ANY PROVISIONS OF THE SOILS REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRE FURTHER CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- A REPRESENTATIVE FOR THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS CERTIFYING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATION OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL PROVISIONS FOR SOILS INSPECTIONS AS RECOMMENDED WITHIN SOILS REPORT AS A MINIMUM. THIS INCLUDES THE OBSERVATION OF THE FOLLOWING BY A SOILS ENGINEER: UTILITY TRENCH EXCAVATIONS, UTILITY PIPE BEDDING, SUBGRADE STABILITY, FOOTING SUBGRADE CONDITIONS, STRUCTURAL FILL OBSERVATIONS AND TESTING, SITE DRAINAGE MEASURES AND OBSERVATIONS, PAVEMENT SUBGRADE OBSERVATIONS, EROSION CONTROL, SITE STABILITY INCLUDING TEMPORARY AND PERMANENT SLOPES.
- THE SOILS ENGINEER SHOULD BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY SITE CLEARING OR GRADING.

FILL SPECIFICATION

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD. ONLY EARTH MATERIAL SHALL BE PLACED IN FILLS.

2412 INTER AVE
A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

INDEX OF SHEETS

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- C4 T.E.S.C. DETAILS
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- C6 CIVIL SITE PLAN
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- C8 POND PLAN
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- C11 SIGNAGE PLAN
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- L6 IRRIGATION NOTES AND SCHEDULE
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LEGEND

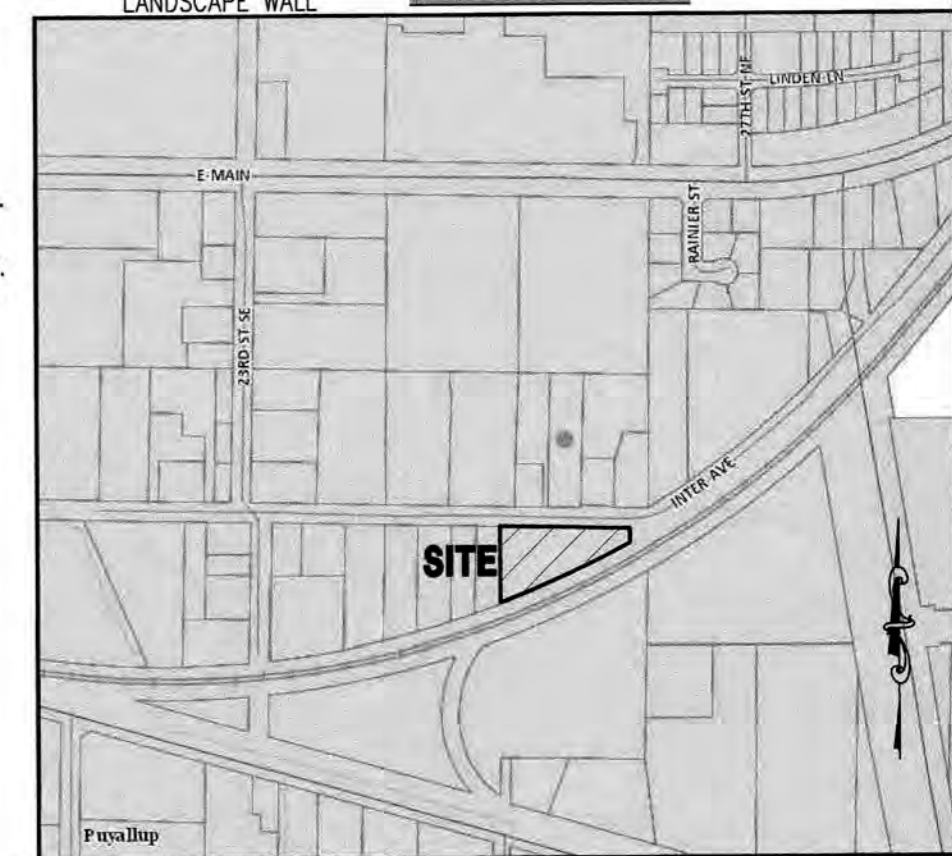
EXISTING	DESCRIPTION	PROPOSED
⊕	MONUMENT	⊕
---	MONUMENT LINE	---
---	PROPERTY LINE	---
---	RIGHT OF WAY LINE	---
---	EASEMENT LINE	---
---	CHAIN LINK FENCE	---
---	CURB & GUTTER	---
---	EDGE OF PAVEMENT	---
---	CONTOURS	---
---	STREET SIGN	---
---	STORM DRAIN CATCH BASIN	---
---	STORM DRAIN MANHOLE	---
---	STORM DRAIN CLEANOUT	---
---	STORM DRAIN LINE	---
---	WALL DRAIN LINE	---
---	SANITARY SEWER MANHOLE	---
---	SANITARY SEWER CLEANOUT	---
---	SANITARY SEWER LINE	---
---	SANITARY SEWER STUB	---
---	FIRE HYDRANT	---
---	WATER VALVE	---
---	WATER METER	---
---	THRUST BLOCKING	---
---	WATER MAIN	---
---	LUMINAIRE	---
---	POWER/UTILITY POLE	---
---	SAWCUT LINE	---
---	ASPHALT CONCRETE	---
---	CEMENT CONCRETE	---
---	PERMEABLE ASPHALT	---
---	GRIND/OVERLAY	---
---	LANDSCAPE AREAS	---
---	LANDSCAPE WALL	---

NOTES:

- THESE PLANS ARE PRELIMINARY UNLESS THE JURISDICTIONAL APPROVAL BOX HAS BEEN SIGNED.
- CAD FILE WILL BE PROVIDED BY ENGINEER TO AID IN ESTABLISHING HORIZONTAL CONTROL.
- SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS

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FEATURES CONTAINED IN THIS DRAWING, INCLUDING BUT NOT LIMITED TO, BOUNDARY, RIGHT-OF-WAY, EASEMENT, PARCEL LINES, BEARINGS, DISTANCES, WETLANDS AND BUFFERS, WERE DERIVED FROM PUBLIC RECORDS OR ACQUIRED FROM AUTOCAD DRAWINGS SUPPLIED BY OTHERS.



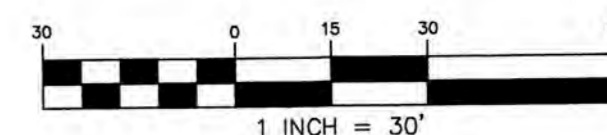
VICINITY MAP

<p>FIRE HYDRANT/EDC LOCATION/ACCESS APPROVED</p> <p>BY: <i>Daniel D. Deane</i> CITY OF PUYALLUP FIRE CODE OFFICIAL</p> <p>DATE: 07/21/2025</p> <p>NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE OFFICIAL.</p>	<p>APPROVED</p> <p>BY: <i>John Deane</i> CITY OF PUYALLUP ENGINEERING MANAGER</p> <p>DATE: 07/17/2025</p> <p>NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.</p>
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Project: 2412 INTER AVE COVER SHEET THROUGH TERRA
 Client: rich@through-terra.com
 Designed: DPS
 Drawn: MFB
 Checked: CAD
 Scale: 1"=50'
 Date: 6/17/25
 Job No.: 20083
 Sheet No.: **C1**
 1 of 20 Sheets

2412 INTER AVE

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON



APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: 07/17/2025

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#	BOW	TOW	DELTA
1	61.00	62.00	1.00
2	57.50	62.00	5.50
3	57.50	62.00	5.50
4	57.50	62.00	5.50
5	57.50	62.00	5.50
6	61.00	62.00	1.00

NOTE: WALL CONSTRUCTION TO BE COMPLETED UNDER A SEPARATE BUILDING PERMIT.



C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING
428 - 29TH ST. NE, SUITE D
PUYALLUP, WA 98372
PH: (206) 848-4282
ceservices@cesnwinc.com

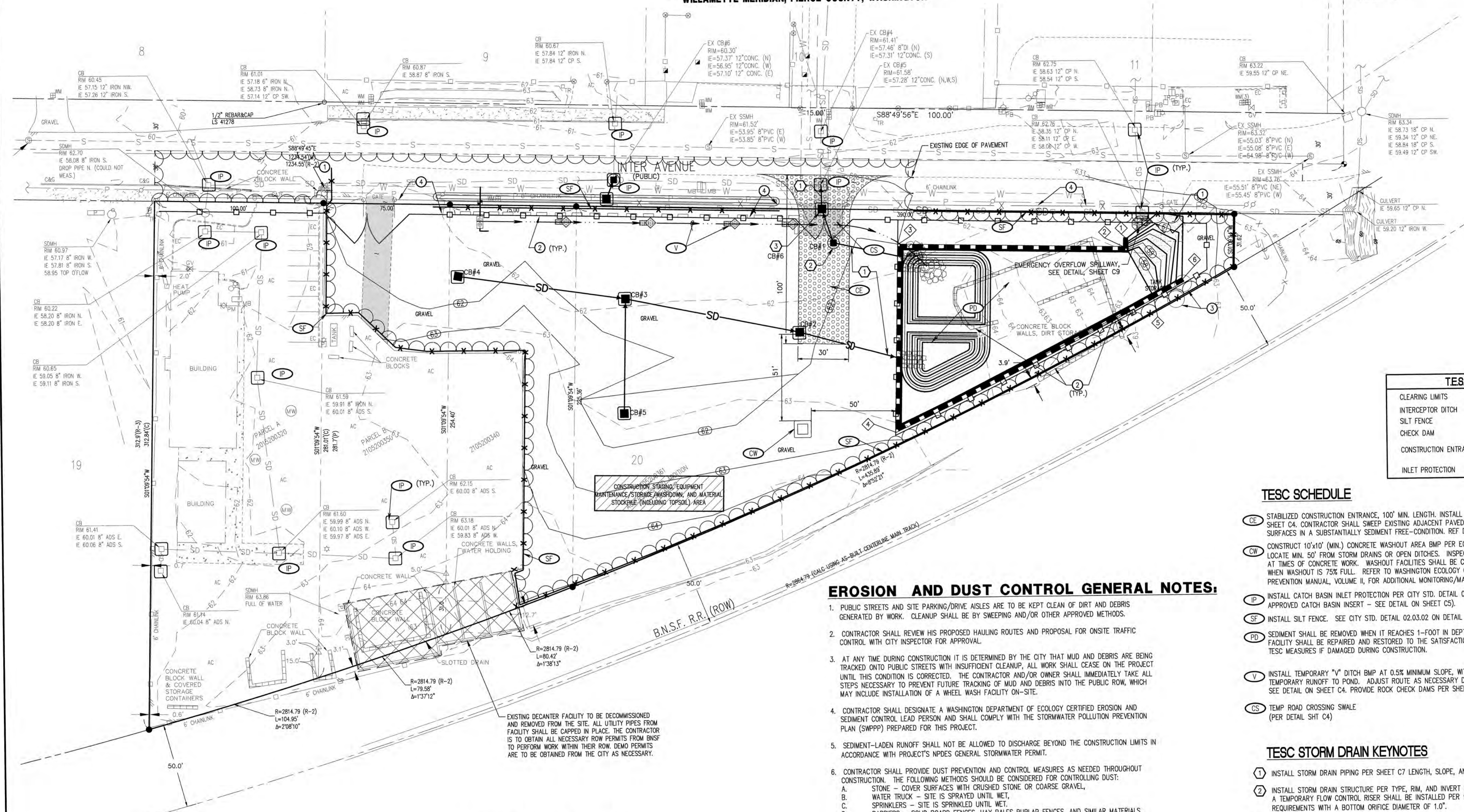
2412 INTER AVE
T.E.S.C. PLAN
THROUGH TERRA

Project: *[Blank]*
Client: rich@through-terra.com

Designed: DPS
Drawn: MFB
Checked: CAD

Scale: 1"=50'
Date: 6/17/25
Job No.: 20083

Sheet No.: **C3**
3 of 20 Sheets



TESC LEGEND	
CLEARING LIMITS	
INTERCEPTOR DITCH	
SILT FENCE	
CHECK DAM	
CONSTRUCTION ENTRANCE	
INLET PROTECTION	

TESC SCHEDULE

- (CE) STABILIZE CONSTRUCTION ENTRANCE, 100' MIN. LENGTH. INSTALL PER CITY STD. DETAIL NO. 05.01.01 ON SHEET C4. CONTRACTOR SHALL SWEEP EXISTING ADJACENT PAVED AREAS AS NECESSARY TO KEEP THOSE SURFACES IN A SUBSTANTIALLY SEDIMENT FREE-CONDITION. REF DEMOLITION KEYNOTE 1.
- (CW) CONSTRUCT 10'x10' (MIN.) CONCRETE WASHOUT AREA BMP PER ECOLOGY DETAIL FIGURE II-4.1.7b/C4. LOCATE MIN. 50' FROM STORM DRAINS OR OPEN DITCHES. INSPECT DAILY TO VERIFY PERFORMANCE AT TIMES OF CONCRETE WORK. WASHOUT FACILITIES SHALL BE CLEANED, OR NEW FACILITIES CONSTRUCTED WHEN WASHOUT IS 75% FULL. REFER TO WASHINGTON ECOLOGY CONSTRUCTION STORMWATER POLLUTION PREVENTION MANUAL, VOLUME II, FOR ADDITIONAL MONITORING/MAINTENANCE TECHNIQUES.
- (IP) INSTALL CATCH BASIN INLET PROTECTION PER CITY STD. DETAIL 02.03.05 ON SHEET C4, (OR APPROVED CATCH BASIN INSERT - SEE DETAIL ON SHEET C5).
- (SF) INSTALL SILT FENCE. SEE CITY STD. DETAIL 02.03.02 ON DETAIL SHEET C4.
- (PD) SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1-FOOT IN DEPTH AND AT END OF CONSTRUCTION PHASE. FACILITY SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE CITY INSPECTOR PRIOR TO REMOVING TESC MEASURES IF DAMAGED DURING CONSTRUCTION.
- (V) INSTALL TEMPORARY "V" DITCH BMP AT 0.5% MINIMUM SLOPE, WITH CHECK DAMS, TO DRAIN TEMPORARY RUNOFF TO POND. ADJUST ROUTE AS NECESSARY DURING CONSTRUCTION. SEE DETAIL ON SHEET C4. PROVIDE ROCK CHECK DAMS PER SHEET C4.
- (CS) TEMP ROAD CROSSING SWALE (PER DETAIL SHT C4)

TESC STORM DRAIN KEYNOTES

- 1 INSTALL STORM DRAIN PIPING PER SHEET C7 LENGTH, SLOPE, AND INVERT ELEVATION REQUIREMENTS.
- 2 INSTALL STORM DRAIN STRUCTURE PER TYPE, RIM, AND INVERT REQUIREMENTS ON SHEET C7. A TEMPORARY FLOW CONTROL RISER SHALL BE INSTALLED PER FIGURE II-3.30 ON SHEET C5 REQUIREMENTS WITH A BOTTOM ORIFICE DIAMETER OF 1.0'.
- 3 INSTALL STORM DRAIN STRUCTURE PER SHEET C7 REQUIREMENTS.

DEMOLITION KEYNOTES

- 1 REMOVE EXISTING HYDRANT METER AT EXISTING FIRE HYDRANT. COORDINATE WITH INSPECTOR AND CITY OF PUYALLUP WATER UTILITY DEPARTMENT.
- 2 CONCRETE BLOCKS TO BE REMOVED AND SALVAGED TO OWNER OR DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
- 3 TANK STORAGE TO BE REMOVED AND SALVAGED TO OWNER OR DISPOSED OF AT AN APPROVED OFFSITE LOCATION.
- 4 REMOVE EXISTING FENCE WITHIN PUBLIC RIGHT-OF-WAY. SEE SHEET C6 FOR ONSITE FENCING REQUIREMENTS.

NOTES:

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EROSION AND DUST CONTROL GENERAL NOTES:

- PUBLIC STREETS AND SITE PARKING/DRIVE AISLES ARE TO BE KEPT CLEAN OF DIRT AND DEBRIS GENERATED BY WORK. CLEANUP SHALL BE BY SWEEPING AND/OR OTHER APPROVED METHODS.
- CONTRACTOR SHALL REVIEW HIS PROPOSED HAULING ROUTES AND PROPOSAL FOR ONSITE TRAFFIC CONTROL WITH CITY INSPECTOR FOR APPROVAL.
- AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.
- CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD PERSON AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
- SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH PROJECT'S NPDES GENERAL STORMWATER PERMIT.
- CONTRACTOR SHALL PROVIDE DUST PREVENTION AND CONTROL MEASURES AS NEEDED THROUGHOUT CONSTRUCTION. THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:
 - A. STONE - COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.
 - B. WATER TRUCK - SITE IS SPRAYED UNTIL WET.
 - C. SPRINKLERS - SITE IS SPRINKLED UNTIL WET.
 - D. BARRIERS - SOLID BOARD FENCES, HAY BALES BURLAP FENCES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

DEMOLITION AND EXCAVATION NOTES:

- CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED AND NECESSARY PRECONSTRUCTION MEETINGS HELD, PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND TYPE OF EXISTING UTILITIES IN WORK AREA PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL PROTECT AND PRESERVE ALL IMPROVEMENTS ALONG THE PERIMETER OF THE WORK AREA. ANY DAMAGED IMPROVEMENTS SHALL BE REPAIRED/REPLACED AT CONTRACTOR'S EXPENSE.
- ALL SILT PROTECTION AND EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE SAWCUTTING, CURB AND PAVEMENT REMOVAL, OR STRIPPING OF SITE VEGETATION.
- ANY/ALL EXISTING WELLS AND/OR SEPTIC SYSTEMS DISCOVERED ON-SITE SHALL BE REMOVED AND/OR ABANDONED PER PIERCE COUNTY HEALTH DEPARTMENT STANDARDS.
- THE PROJECT SITE IS SUBJECT TO HIGH GROUNDWATER LEVELS. IMPLEMENT DEWATERING PROCEDURES AS NECESSARY.

CONSTRUCTION SEQUENCE

- THE CONTRACTOR IS TO REQUEST A PRE-CONSTRUCTION MEETING WITH THE CITY'S INSPECTOR.
- CLEARLY STAKE, FLAG OR FENCE CLEARING LIMITS/WORK AREA. NO WORK SHALL BE PERFORMED OUTSIDE THESE LIMITS WITHOUT PRIOR APPROVAL FROM THE CITY OF PUYALLUP.
- PRIOR TO STARTING SITE WORK, REQUEST AN INSPECTION FOR EROSION AND SEDIMENT, INSPECTION CODE #1010, BY CALLING THE INSPECTION REQUEST LINE AT 1-877-232-6456.
- PROVIDE SILT FENCING AS SHOWN ON THE APPROVED PLANS.
- GRADE SITE AS SHOWN ON THE APPROVED PLANS.
- CONSTRUCT THE CONVEYANCE SYSTEM AND INSTALL INLET PROTECT ON THE NEW CATCH BASINS.
- INSTALL FILTER FABRIC AND PERMEABLE BALLAST.
- CONSTRUCT ONSITE PLANTERS AND PAVE THE STORAGE AREA.
- CONSTRUCT FRONTAGE IMPROVEMENTS AND AMEND THE LANDSCAPE AND LAWN AREAS WITH SOIL AMENDMENTS.
- AMEND SOILS PER CS 01.02.08A ON SHEET C9.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH CITY OF PUYALLUP AND DEPARTMENT OF ECOLOGY EROSION AND SEDIMENT CONTROL STANDARDS.
- COVER ALL AREAS, INCLUDING STOCKPILES, THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, PLASTIC SHEETING OR EQUIVALENT.
- STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
- SEED, SOO, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- CALL FOR FINAL INSPECTIONS. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPs IF APPROPRIATE.

**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

EXISTING DECENTER FACILITY TO BE DECOMMISSIONED AND REMOVED FROM THE SITE. ALL UTILITY PIPES FROM FACILITY SHALL BE CAPPED IN PLACE. THE CONTRACTOR IS TO OBTAIN ALL NECESSARY ROW PERMITS FROM BNSF TO PERFORM WORK WITHIN THEIR ROW. DEMO PERMITS ARE TO BE OBTAINED FROM THE CITY AS NECESSARY.

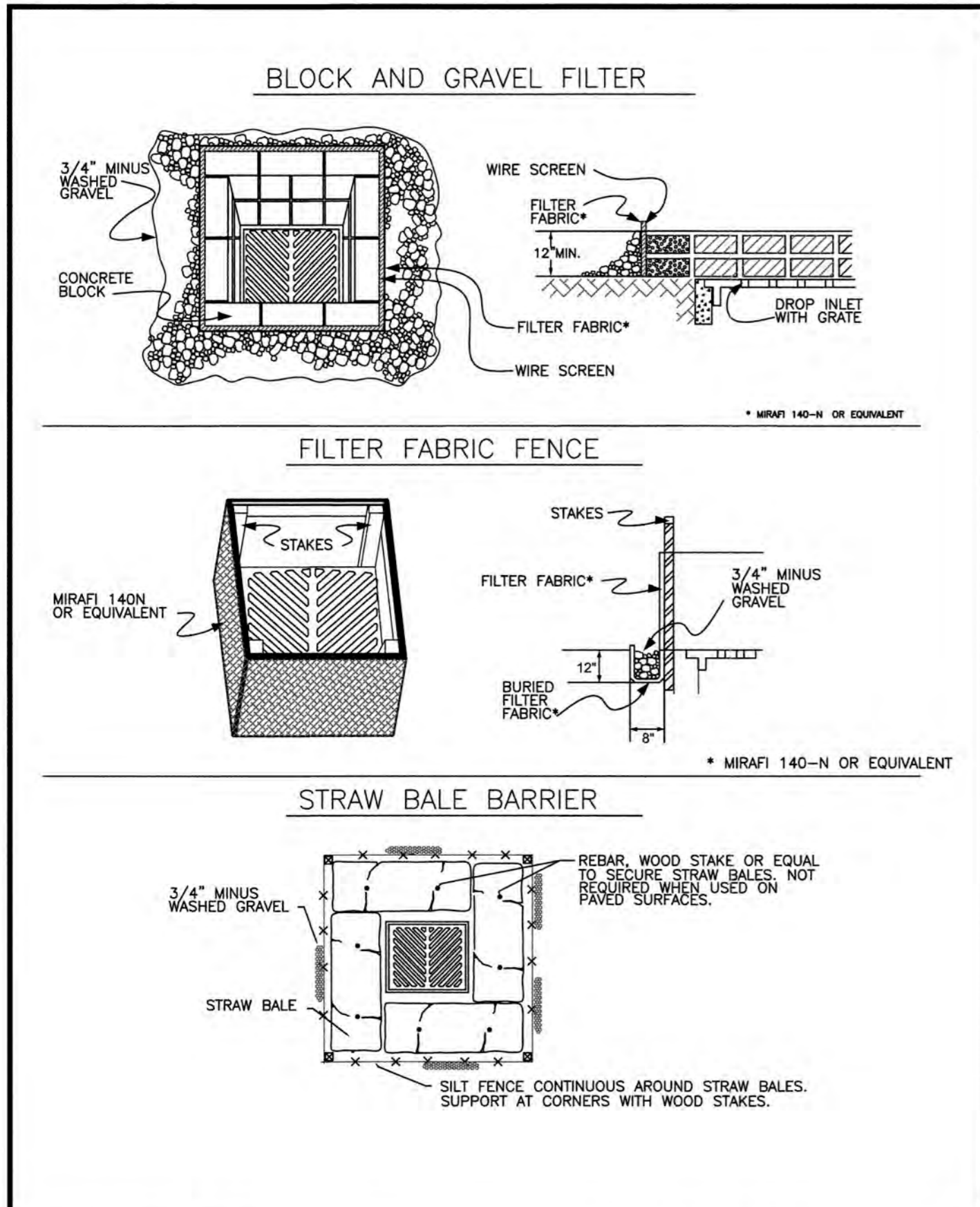
2412 INTER AVE
 A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
 WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED
 BY: *[Signature]*
 CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING
 07/17/2025
 DATE: _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



CONDITIONS WHERE PRACTICE APPLIES

- BLOCK AND GRAVEL FILTER - APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.
- FILTER FABRIC FENCE - APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS) AND FLAT AREA (LESS THAN 5% SLOPE).
- STRAW BALE BARRIER - APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA (LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 0.5 FT/SEC.) OCCURS. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS AND HIGHWAYS.

1. BLOCK AND GRAVEL FILTER - INSTALLATION PROCEDURE

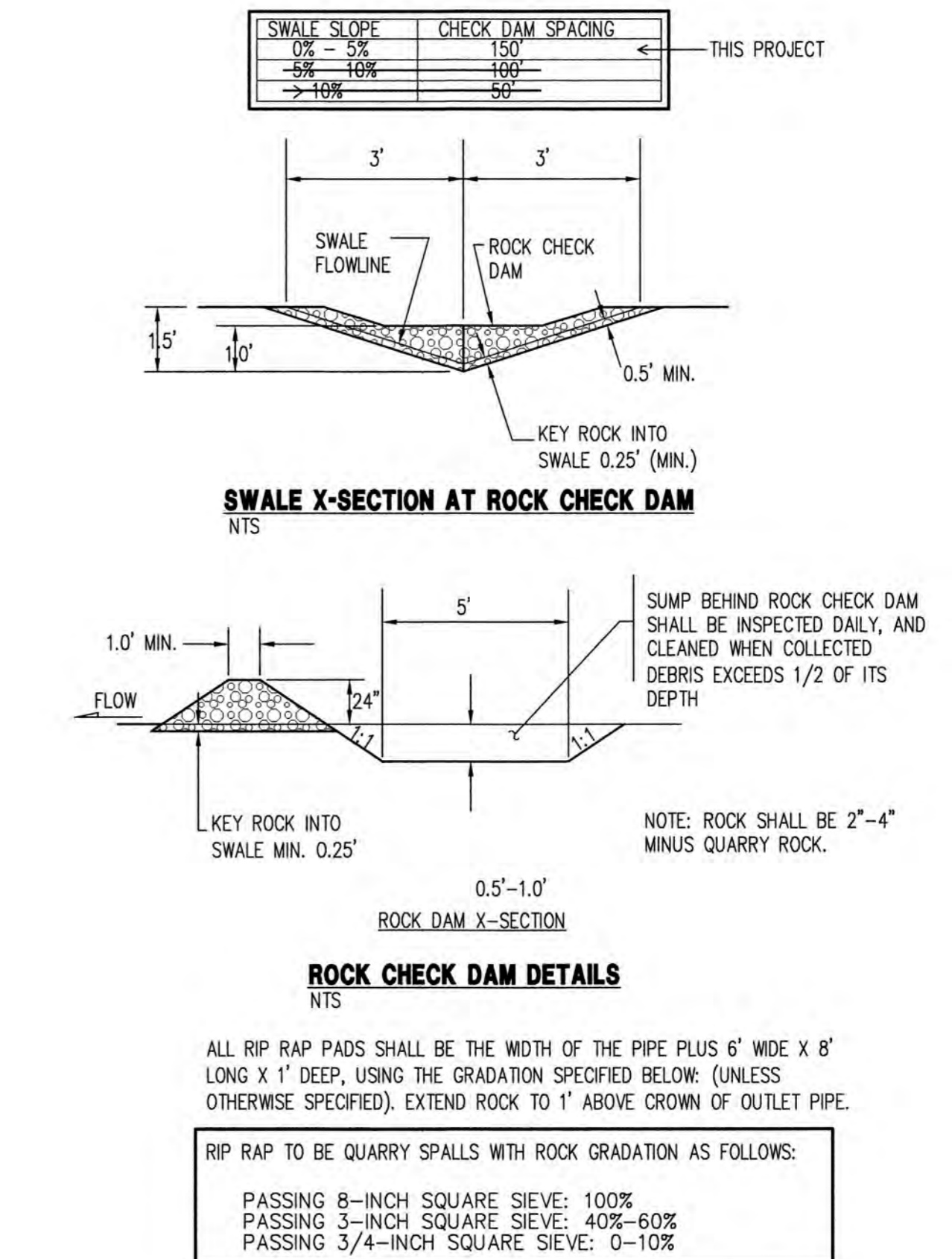
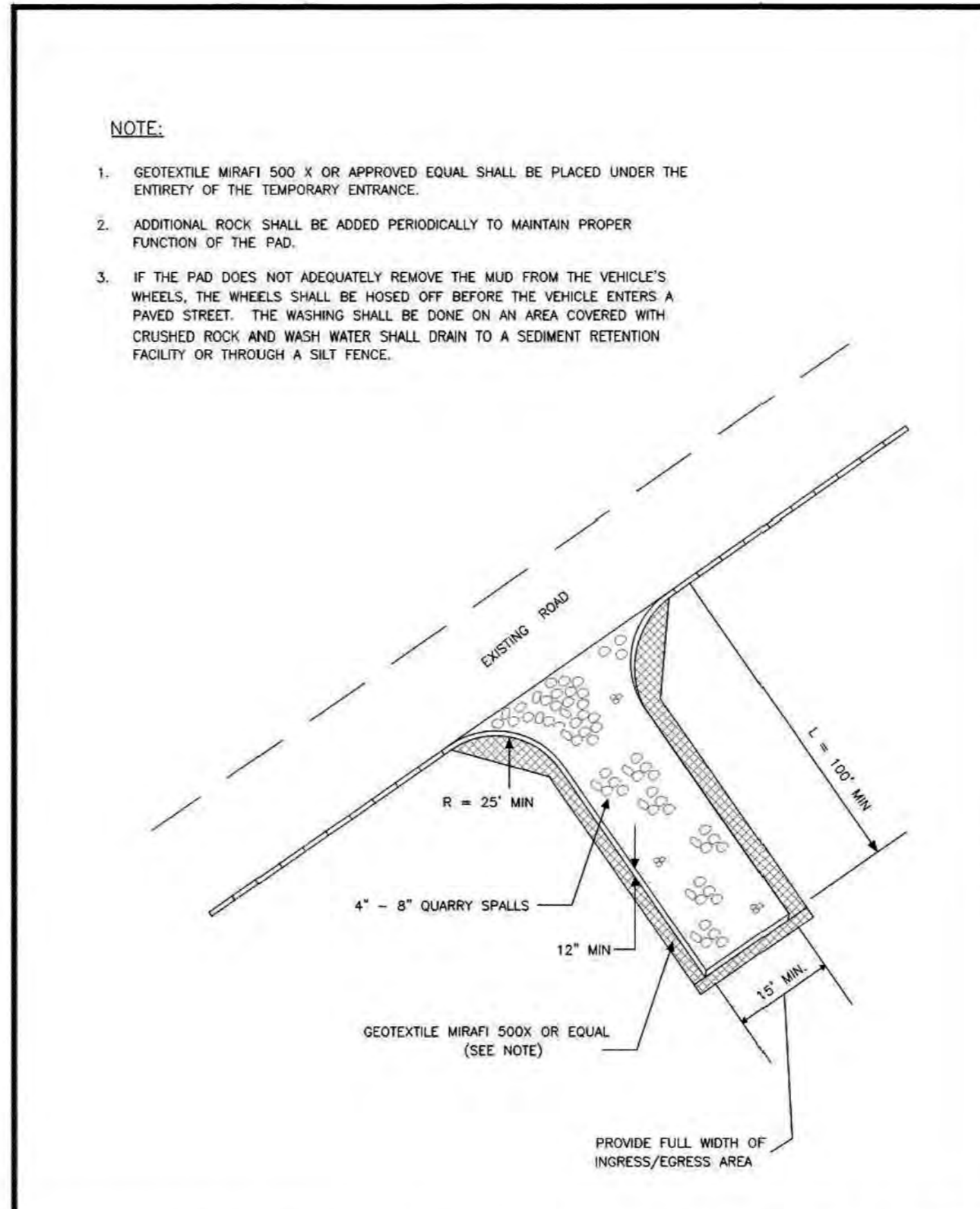
- PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF ONE FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE WIRE SCREEN WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC* OVER WIRE MESH.
- PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHOULD ADJUT. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4-INCH, 8-INCH AND 12-INCH WIDE. THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BUT NO GREATER THAN 24-INCHES HIGH.
- STAPLE WIRE SCREEN OVER THE OVERSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE BLOCKS. USE WIRE SCREEN WITH 1/2-INCH OPENINGS.
- PILE STONES AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4" MINUS WASHED GRAVEL.

2. FILTER FABRIC FENCE - INSTALLATION PROCEDURE

- PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET LONG.
- EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
- STAPLE THE FILTER FABRIC* TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.
- BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

3. STRAW BALE BARRIER - INSTALLATION PROCEDURE

- EXCAVATE A 4-INCH DEEP TRENCH AROUND THE INLET. MAKE THE TRENCH AS WIDE AS A STRAW BALE.
- ORIENT STRAW BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES RATHER THAN OVER AND UNDER THE BALES.
- PLACE BALES LENGTHWISE AROUND THE INLET AND PRESS THE ENDS OF ADJACENT BALES SECURELY IN PLACE.
- DRIVE TWO 2-INCH BY 2-INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECURELY IN PLACE.
- WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.



CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS

DESIGNED BY: LINDA LANNING	CHECKED BY: LINDA LANNING	APPROVED BY: COLLEEN BARBER	REVISION BY: XXXX	CITY STANDARD
FILE NAME: F:\PROJECTS\CONSTRUCTION\CITY\2024\02\03\05	DATE APPROVED: 02/03/25	DATE REVISION: 02/03/25	SCALE: NTS	02.03.05

CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

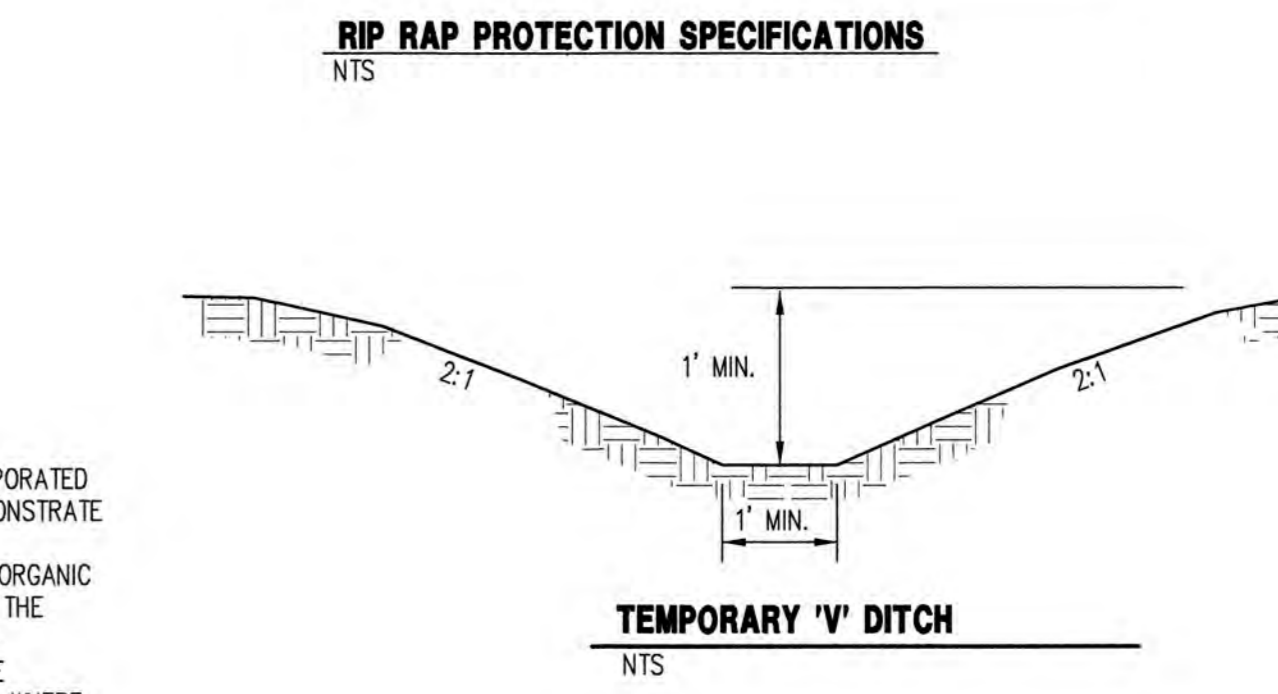
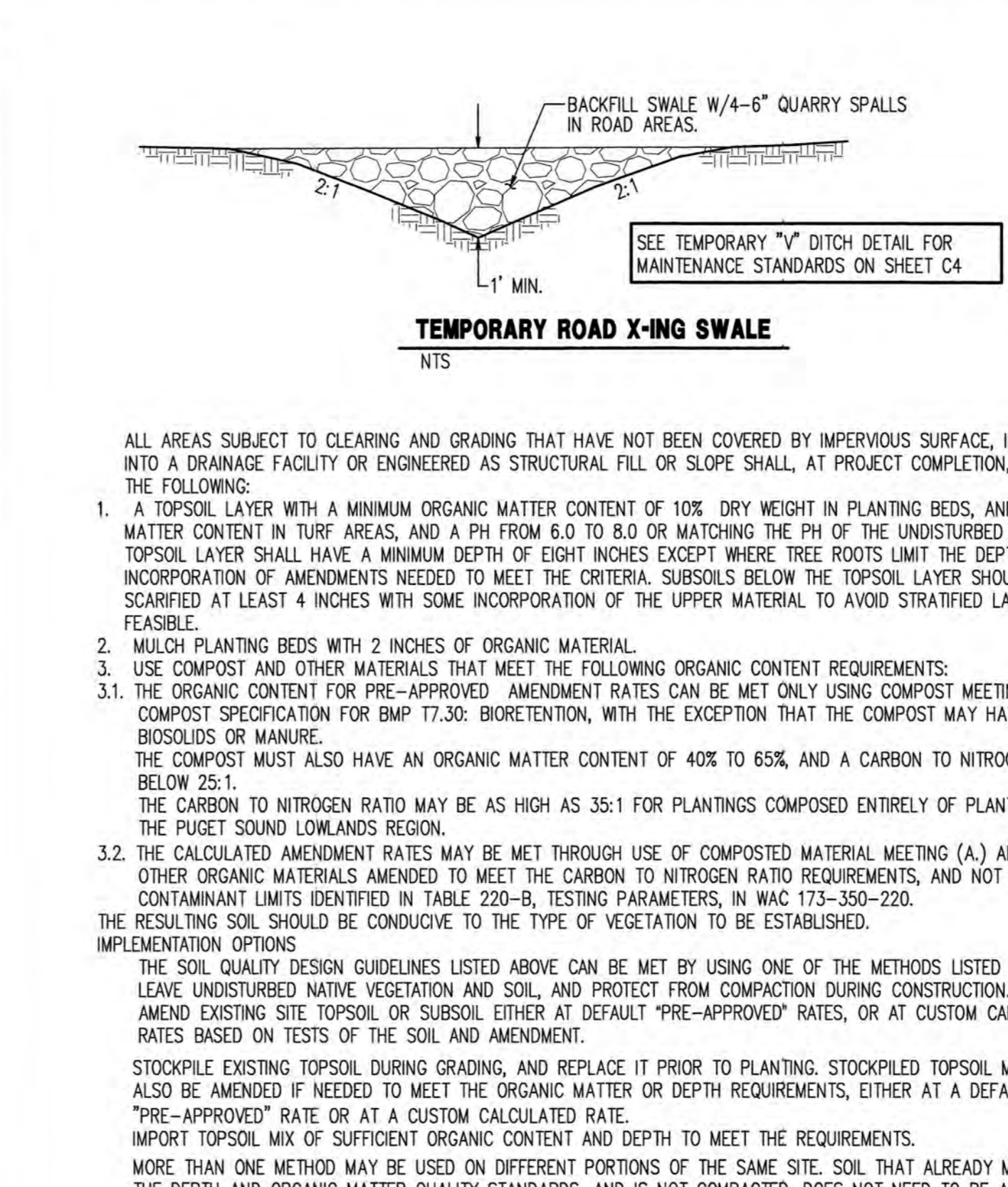
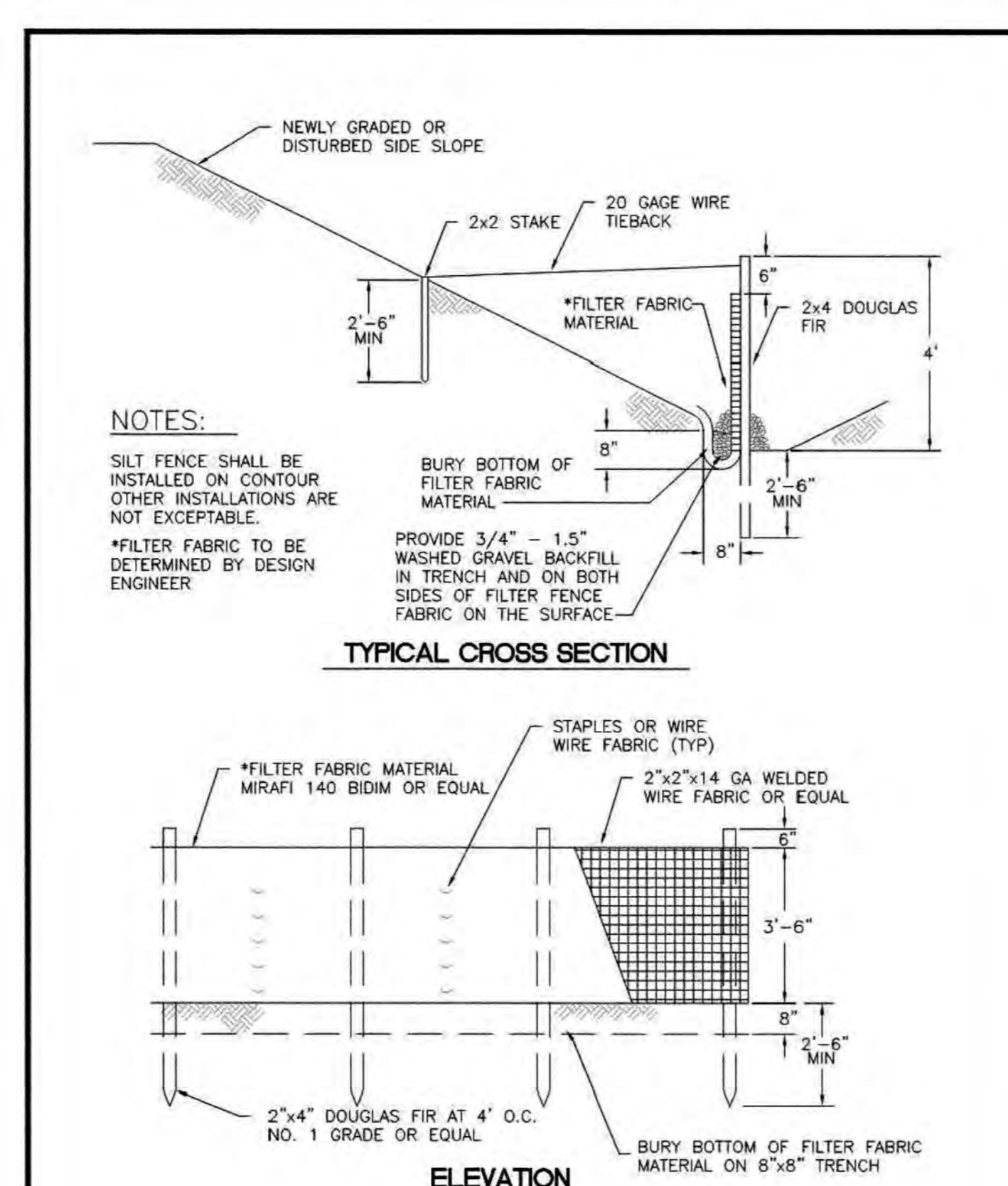
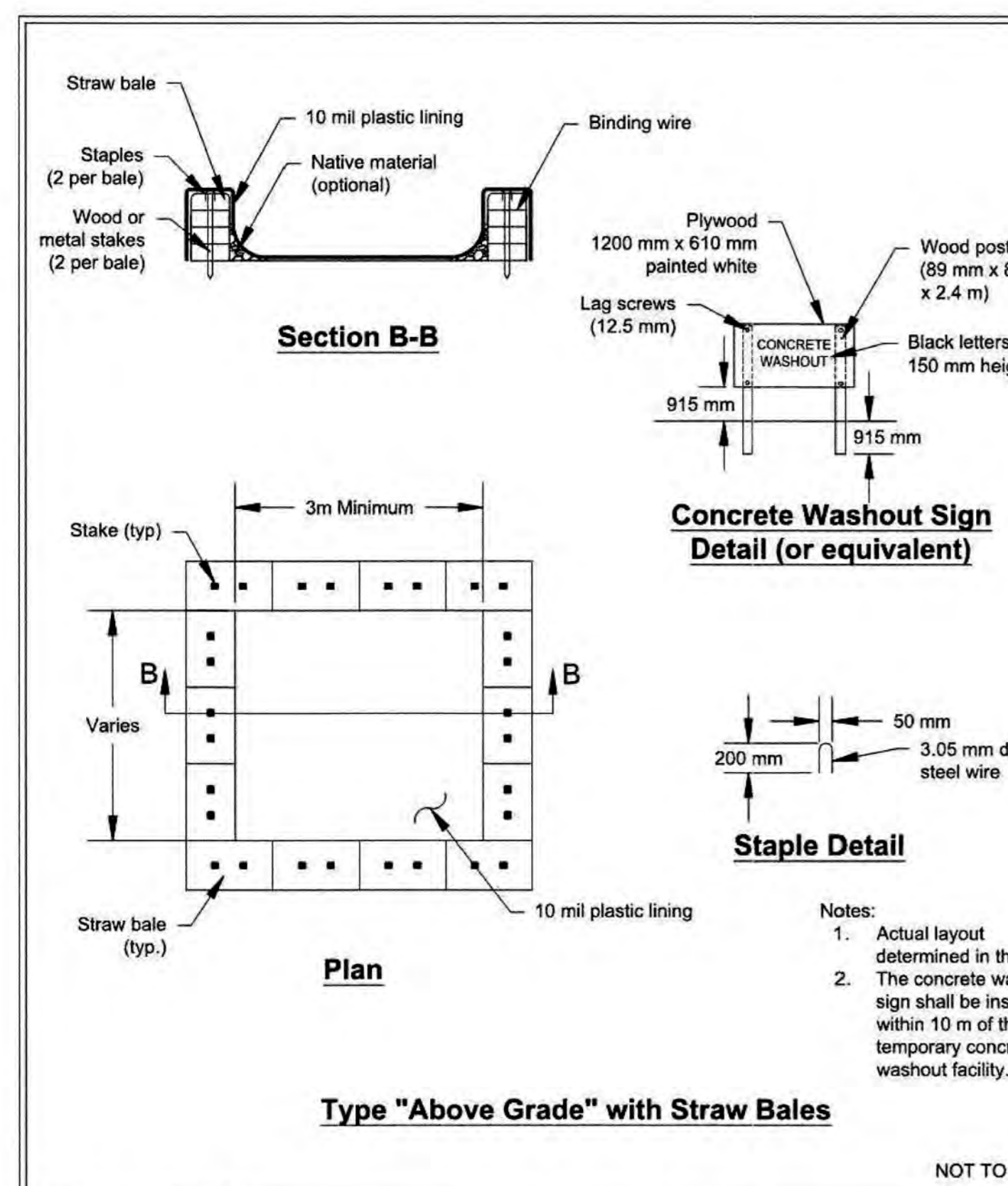
STORM DRAIN BARRIERS NOTES

DESIGNED BY: LINDA LANNING	CHECKED BY: LINDA LANNING	APPROVED BY: COLLEEN BARBER	REVISION BY: XXXX	CITY STANDARD
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CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

TEMPORARY CONSTRUCTION ENTRANCE

DESIGNED BY: LINDA LANNING	CHECKED BY: LINDA LANNING	APPROVED BY: COLLEEN BARBER	REVISION BY: XXXX	CITY STANDARD
FILE NAME: F:\PROJECTS\CONSTRUCTION\CITY\2024\02\03\05	DATE APPROVED: 02/03/25	DATE REVISION: 02/03/25	SCALE: NTS	05.01.01



DEPARTMENT OF ECOLOGY
 State of Washington

Figure II-4.1.7b
 Concrete Washout Area

Revised June 2015

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CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SILTATION FENCE

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CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

BMP T5.13 POST-CONSTRUCTION SOIL QUALITY AND DEPTH

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FILE NAME: F:\PROJECTS\CONSTRUCTION\CITY\2024\02\03\05	DATE APPROVED: 02/03/25	DATE REVISION: 02/03/25	SCALE: NTS	02.03.02

CALL 48 HOURS BEFORE YOU DIG
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Date: _____
 No. _____
 Revision: _____

C.E.S. NW INC.
 CIVIL ENGINEERING & SURVEYING

2412 INTER AVE
 T.E.S.C. DETAILS

THROUGH TERRA

Project: _____
 Client: rich@through-terra.com

Designed: DPS
 Drawn: MFB
 Checked: CAD

Scale: 1"=50'
 Date: 6/17/25
 Job No.: 20083

Sheet No.: **C4**

4 of 20 Sheets

GRADING, EROSION AND SEDIMENTATION CONTROL NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
- ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

NOTES

- EROSION/SEDIMENTATION CONTROL MEASURES MUST BE FUNCTIONAL AND MAINTAINED DURING CONSTRUCTION.
- SOIL STOCK PILES TO BE COVERED WITHIN 24 HOURS.
- MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURE.
- AREAS TO BE DISTURBED ARE THE FOOTPRINT, PATIO, DRIVEWAY, & WALKWAY AREA W/ THE BALANCE OF THE LOT UNDISTURBED.
- DRIVEWAY PAVING MATERIAL TO BE CONCRETE.

MULCHING NOTES

- MULCH MATERIALS USED SHALL BE HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF 75-100 POUNDS PER 1,000 SQUARE FEET, OR 90-120 BALES PER ACRE TO A MIN. DEPTH OF 2 INCHES.
- MULCHES SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2:1.
- MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDDED BECAUSE OF THE SEASON.
- ALL AREAS NEEDED MULCH SHALL BE COVERED BY NOVEMBER 1.

TEMPORARY ESC MEASURES REQUIRED

- SILT FENCING.
- VEGETATION AND STABILIZATION OF EXPOSED SURFACES
- STOCKPILE PROTECTION.
- ADDITIONAL MEASURES MAY BE REQUIRED.

SEED MIXTURE FOR EROSION CONTROL

NAME:	% BY WEIGHT:	% PURITY:	% GERMINATION:
REDTOP (AGROSTIS ALBA)	10 PERCENT	92 PERCENT	90 PERCENT
ANNUAL RYE (LOLIUM MULTIFLORUM)	40 PERCENT	98 PERCENT	90 PERCENT
CHEWING FESCUE (FESTUCA RUBRA CONNUTATA - JAMESTOWN, BANNER, SHADOW, or KORBET)	40 PERCENT	97 PERCENT	80 PERCENT
WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	10 PERCENT	96 PERCENT	90 PERCENT

2412 INTER AVE
A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED
BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: 07/17/2025

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

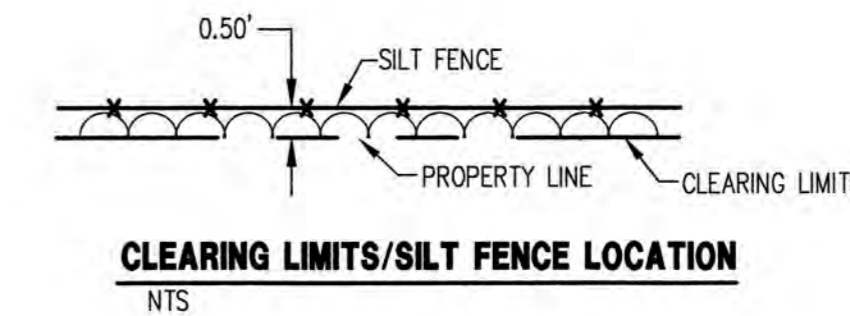


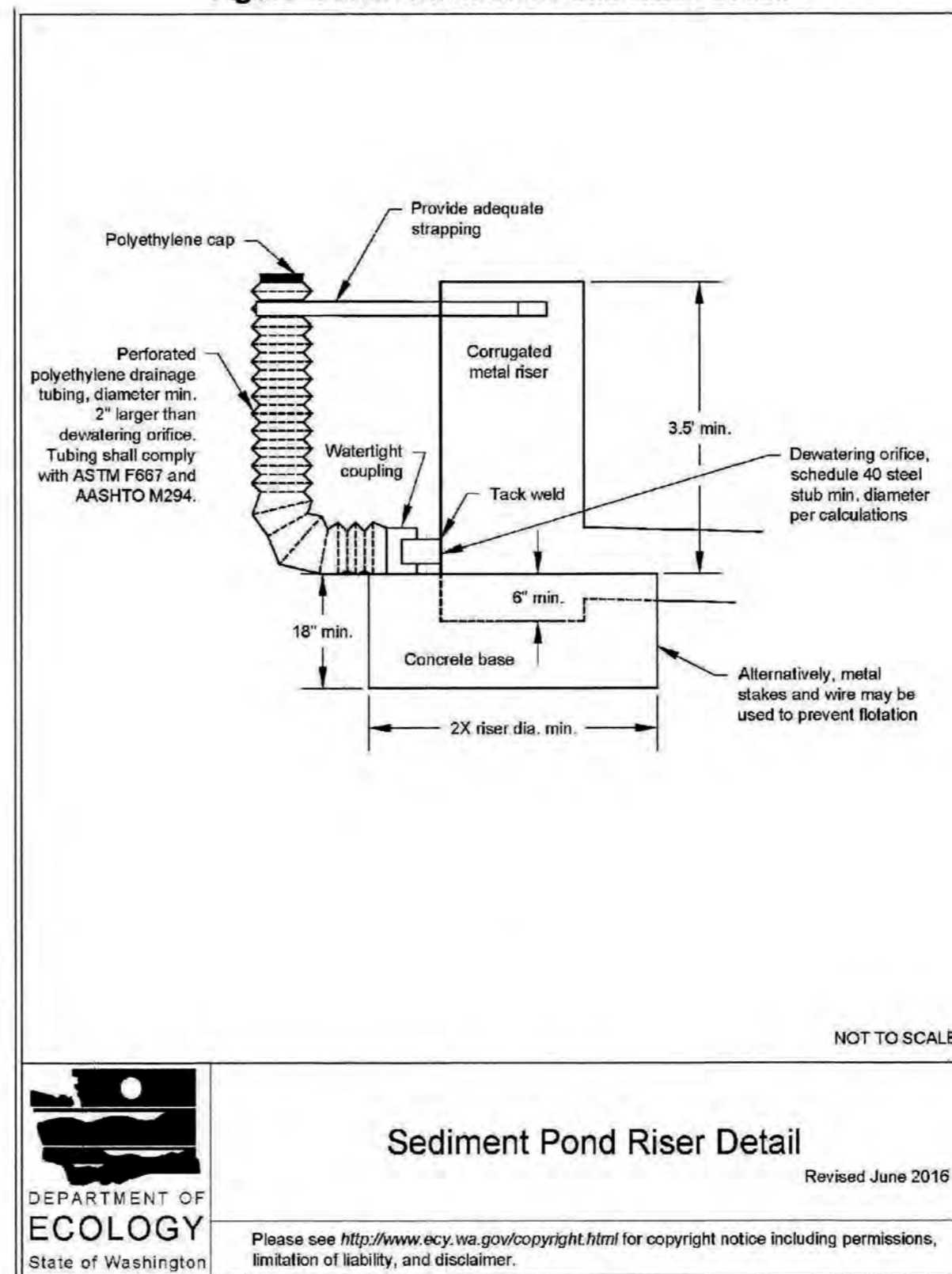
Table II-3.6: Mulch Standards and Guidelines

Mulch Material	Guideline	Description
Straw	Quality Standards	Air-dried, free from undesirable seed and coarse material.
	Application Rates	2'-3" thick; 5 bales per 1,000 sf or 2-3 tons per acre
	Remarks	Cost-effective protection when applied with adequate thickness. Hand-application generally requires greater thickness than blown straw. The thickness of straw may be reduced by half when used in conjunction with seeding. In windy areas straw must be held in place by crimping, using a tackifier, or covering with netting. Blown straw always has to be held in place with a tackifier as even light winds will blow it away. Straw, however, has several deficiencies that should be considered when selecting mulch materials. It often introduces and/or encourages the propagation of weed species and it has no significant long-term benefits. It should also not be used within the ordinary high-water elevation of surface waters (due to flotation).
Hydromulch	Quality Standards	No growth inhibiting factors.
	Application Rates	Approx. 35-45 lbs per 1,000 sf or 1,500 - 2,000 lbs per acre
	Remarks	Shall be applied with hydromulcher. Shall not be used without seed and tackifier unless the application rate is at least doubled. Fibers longer than about 3/4 - 1 inch clog hydromulcher equipment. Fibers should be kept to less than 3/4 inch.
Compost	Quality Standards	No visible water or dust during handling. Must be produced per WAC 173-350, Solid Waste Handling Standards, but may have up to 35% biosolids.
	Application Rates	2" thick min.; approx. 100 tons per acre (approx. 750 lbs per cubic yard)
	Remarks	More effective control can be obtained by increasing thickness to 3". Excellent mulch for protecting final grades until landscaping because it can be directly seeded or tilled into soil as an amendment. Compost used for mulch has a coarser size gradation than compost used for BMP C125: Topsoiling / Composting or BMP T5.13: Post-Construction Soil Quality and Depth. It is more stable and practical to use in wet areas and during rainy weather conditions. Do not use near wetlands or near phosphorous impaired water bodies.
Chipped Site Vegetation	Quality Standards	Gradations from fines to 6 inches in length for texture, variation, and interlocking properties. Include a mix of various sizes so that the average size is between 2- and 4- inches.
	Application Rates	2" thick min.;

Table II-3.6: Mulch Standards and Guidelines (continued)

Mulch Material	Guideline	Description
Wood-Based Mulch	Remarks	This is a cost-effective way to dispose of debris from clearing and grubbing, and it eliminates the problems associated with burning. Generally, it should not be used on slopes above approx. 10% because of its tendency to be transported by runoff. It is not recommended within 200 feet of surface waters. If permanent seeding or planting is expected shortly after mulch, the decomposition of the chipped vegetation may tie up nutrients important to grass establishment. Note: thick application of this material over existing grass, herbaceous species, and some groundcovers could smother and kill vegetation.
	Quality Standards	No visible water or dust during handling. Must be purchased from a supplier with a Solid Waste Handling Permit or one exempt from solid waste regulations.
Wood Strand Mulch	Application Rates	2" thick min.; approx. 100 tons per acre (approx. 750 lbs. per cubic yard)
	Remarks	This material is often called "wood straw" or "hog fuel". The use of mulch ultimately improves the organic matter in the soil. Special caution is advised regarding the source and composition of wood-based mulches. Its preparation typically does not provide any weed seed control, so evidence of residual vegetation in its composition or known inclusion of weed plants or seeds should be monitored and prevented (or minimized).
	Quality Standards	A blend of loose, long, thin wood pieces derived from native conifer or deciduous trees with high length-to-width ratio.
Wood Strand Mulch	Application Rates	2" thick min.
	Remarks	Cost-effective protection when applied with adequate thickness. A minimum of 95-percent of the wood strand shall have lengths between 2 and 10-inches, with a width and thickness between 1/16 and 1/2-inches. The mulch shall not contain resin, tannin, or other compounds in quantities that would be detrimental to plant life. Sawdust or wood shavings shall not be used as mulch. (Specification 9-14.4(4) from the Standard Specifications for Road, Bridge, and Municipal Construction (WSDOT, 2016))

Figure II-3.30: Sediment Pond Riser Detail



- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENT

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES

DEPARTMENT OF ECOLOGY
State of Washington

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NOTES:

- THESE PLANS ARE PRELIMINARY UNLESS THE JURISDICTIONAL APPROVAL BOX HAS BEEN SIGNED.
- CAD FILE WILL BE PROVIDED BY ENGINEER TO AID IN ESTABLISHING HORIZONTAL CONTROL.
- SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS

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Project: 2412 INTER AVE
T.E.S.C. NOTES AND DETAILS
THROUGH TERRA

Client: rich@through-terra.com

Designed: DPS
Drawn: MFB
Checked: CAD

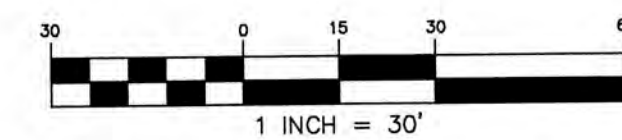
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Sheet No.: **C5**
5 of 20 Sheets

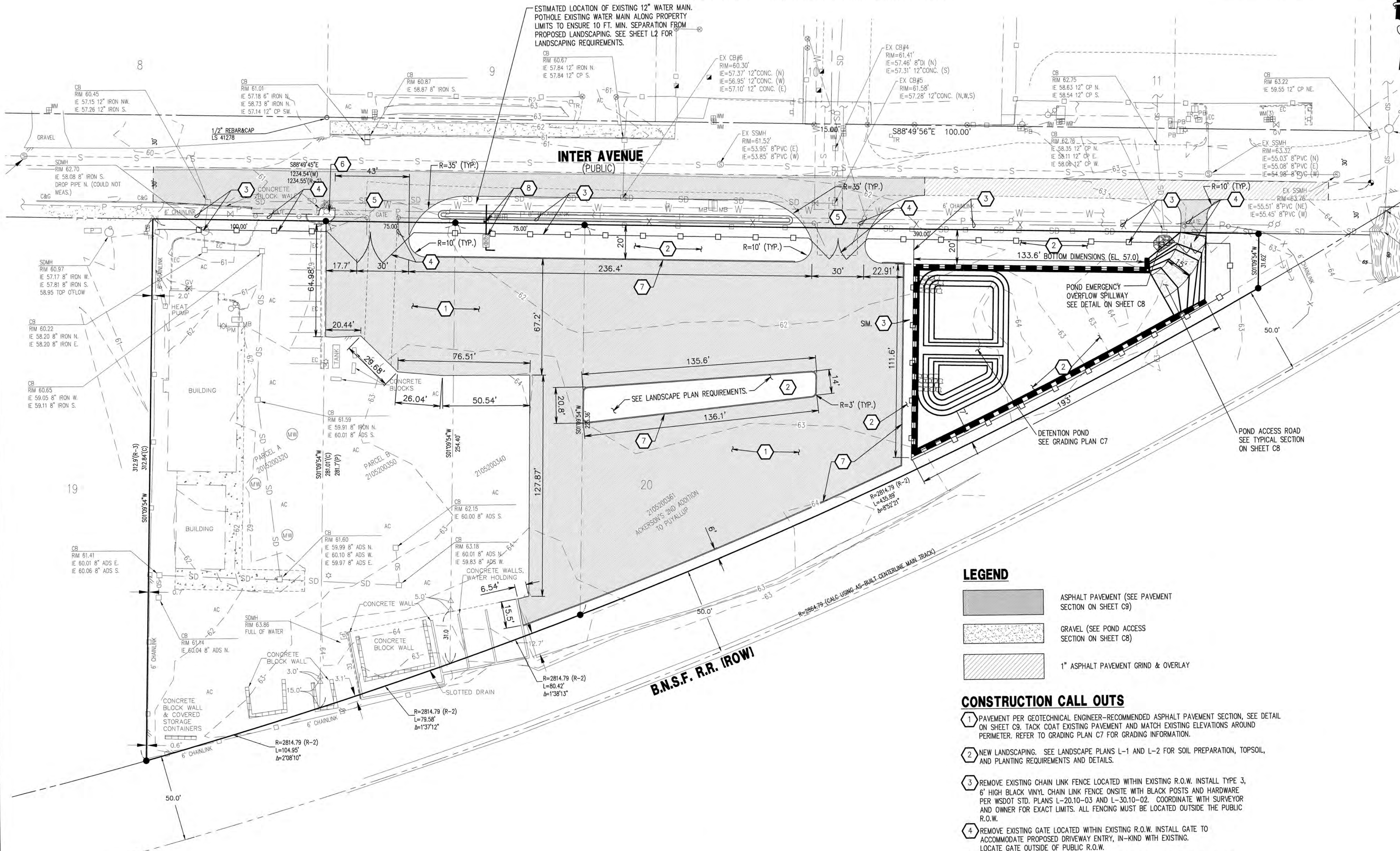
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2412 INTER AVE

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON



<p>FIRE HYDRANT/EDC LOCATION/ACCESS APPROVED</p> <p>BY: <i>[Signature]</i> CITY OF PUYALLUP FIRE CODE OFFICIAL</p> <p>DATE: 07/21/2025</p> <p><small>NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE OFFICIAL.</small></p>	<p style="text-align: center;">APPROVED</p> <p>BY: <i>[Signature]</i> CITY OF PUYALLUP DEVELOPMENT ENGINEERING</p> <p>DATE: 07/17/2025</p> <p><small>NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.</small></p>
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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

LEGEND

	ASPHALT PAVEMENT (SEE PAVEMENT SECTION ON SHEET C9)
	GRAVEL (SEE POND ACCESS SECTION ON SHEET C8)
	1" ASPHALT PAVEMENT GRIND & OVERLAY

- CONSTRUCTION CALL OUTS**
- 1 PAVEMENT PER GEOTECHNICAL ENGINEER—RECOMMENDED ASPHALT PAVEMENT SECTION, SEE DETAIL ON SHEET C9. TACK COAT EXISTING PAVEMENT AND MATCH EXISTING ELEVATIONS AROUND PERIMETER. REFER TO GRADING PLAN C7 FOR GRADING INFORMATION.
 - 2 NEW LANDSCAPING. SEE LANDSCAPE PLANS L-1 AND L-2 FOR SOIL PREPARATION, TOPSOIL, AND PLANTING REQUIREMENTS AND DETAILS.
 - 3 REMOVE EXISTING CHAIN LINK FENCE LOCATED WITHIN EXISTING R.O.W. INSTALL TYPE 3, 6' HIGH BLACK VINYL CHAIN LINK FENCE ON SITE WITH BLACK POSTS AND HARDWARE PER WSDOT STD. PLANS L-20.10-03 AND L-30.10-02. COORDINATE WITH SURVEYOR AND OWNER FOR EXACT LIMITS. ALL FENCING MUST BE LOCATED OUTSIDE THE PUBLIC R.O.W.
 - 4 REMOVE EXISTING GATE LOCATED WITHIN EXISTING R.O.W. INSTALL GATE TO ACCOMMODATE PROPOSED DRIVEWAY ENTRY, IN-KIND WITH EXISTING. LOCATE GATE OUTSIDE OF PUBLIC R.O.W.
 - 5 DRIVEWAY APPROACH, SEE CITY STANDARD 01.02.16 ON SHEET C9 FOR DIMENSION REQUIREMENTS (SIDEWALK, CURB AND GUTTER NOT REQUIRED). ROW ASPHALT PAVING REQUIREMENTS PER INTER AVE TYPICAL SECTION ON SHEET C11.
 - 6 REMOVE EXISTING HYDRANT METER AND RETURN TO FURVEYOR IN ACCORDANCE WITH FURVEYOR REQUIREMENTS. CONTRACTOR SHALL COORDINATE REMOVAL WITH OWNER AND SITE INSPECTOR.
 - 7 CAST IN PLACE CEMENT CONCRETE TRAFFIC CURB PER WSDOT STANDARD F-10.12-04.
 - 8 IRRIGATION WATER SERVICE WITH A 5/8" WATER METER & A 3/4" DCVA PER CITY STANDARD 03.03.01 & 03.04.01 ON SHEET C10. ALSO SEE LANDSCAPE PLAN SHEET L5.

- SITE LAYOUT NOTES**
1. CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR ALL NEW WORK. SURVEYOR TO CONTACT BCE, INC. TO OBTAIN ELECTRONIC DRAWING FILES FOR STAKING CONTROL PURPOSES.
 2. ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED ON PLAN.

SITE AREAS:

TOTAL PROJECT AREA	= 71,220 SF
PERVIOUS AREA, PROVIDED	= 26,642 SF (37.4%)
IMPERVIOUS AREA, PROVIDED	= 44,578 SF (62.6%)

NOTES:

1. THESE PLANS ARE PRELIMINARY UNLESS THE JURISDICTIONAL APPROVAL BOX HAS BEEN SIGNED.
2. CAD FILE WILL BE PROVIDED BY ENGINEER TO AID IN ESTABLISHING HORIZONTAL CONTROL.
3. SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS

**CALL 48 HOURS BEFORE YOU DIG
DIAL 811**

Date:	
Int.:	
Revision:	
No.:	



C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING

439 - 28TH ST. NE, SUITE D
PUYALLUP, WA 98372
PH: (253) 848-4282
cesnw@cesnw.com

**2412 INTER AVE
CIVIL SITE PLAN**

THROUGH TERRA

Project: rich@through-terra.com

Client: rich@through-terra.com

Designed: DPS
Drawn: MFB
Checked: CAD

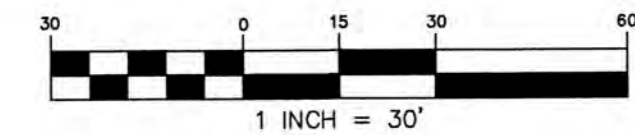
Scale: 1"=50'
Date: 6/17/25
Job No.: 20083

Sheet No.: **C6**

6 of 20 Sheets

2412 INTER AVE

A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON



APPROVED

BY: *J. Smith*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: 07/17/2025

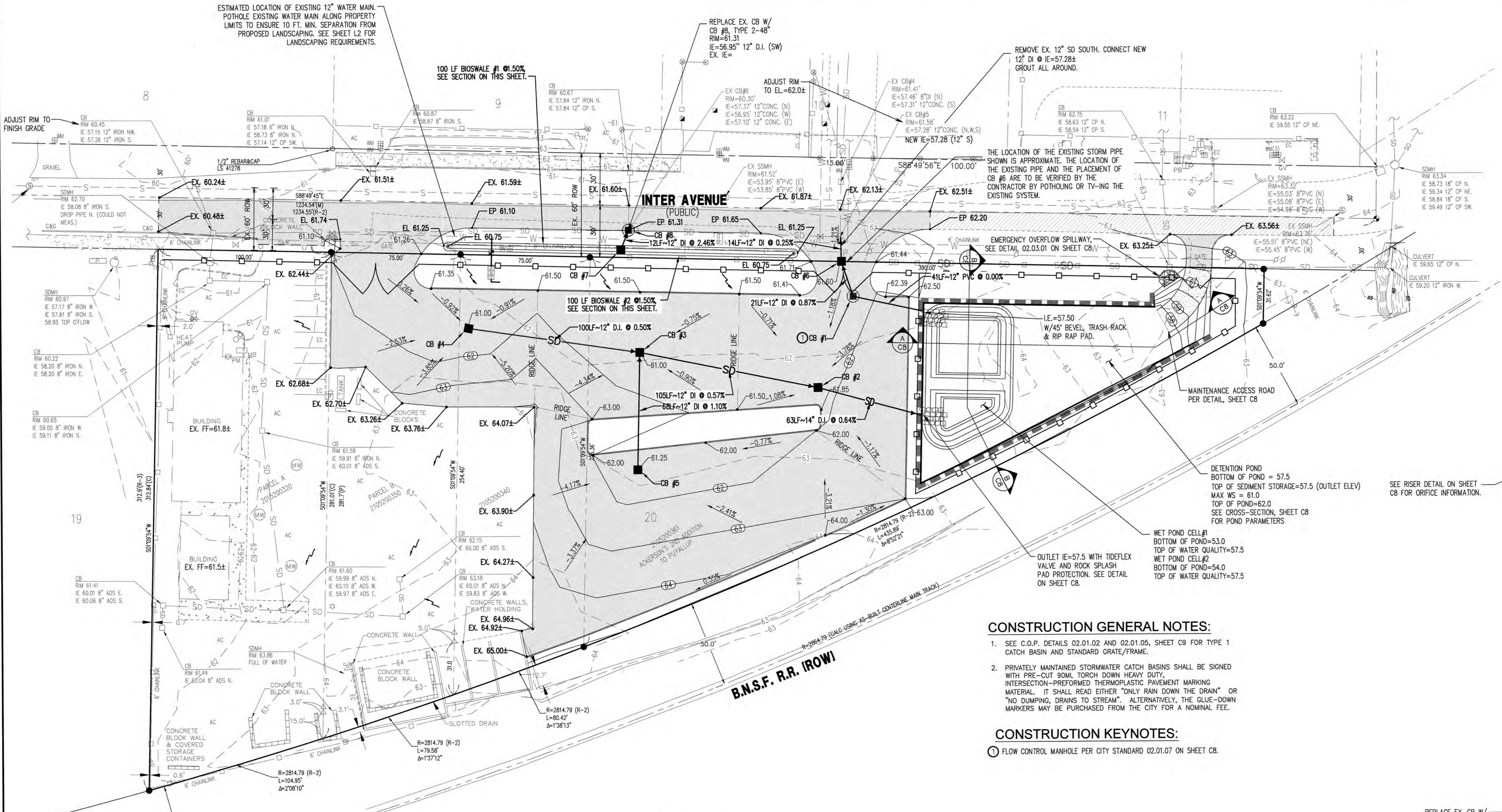
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Project:	2412 INTER AVE
Client:	richthrough-terra.com
Scale:	1"=50'
Date:	6/17/25
Job No.:	20083
Sheet No.:	C7
7 of 20 Sheets	



C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING
429 - 29TH ST. NE, SUITE D
PUYALLUP, WA 98072
PTEL: (253) 848-4282
ces@cesnw.com

2412 INTER AVE
GRADING AND STORM DRAINAGE PLAN
THROUGH TERRA



STORM DRAINAGE STRUCTURES	
CB #1 TYPE 2 - 54" W/STANDARD GRATE	RIM=62.67 I.E.in=57.50 (12"E) I.E.out=57.50(12"N)
CB #2 TYPE 1, W/STANDARD GRATE	RIM=61.00 I.E.in=57.90 (12"W) I.E.out=57.90(12"E)
CB #3 TYPE 1, W/STANDARD GRATE	RIM=61.00 I.E.in=58.50 (12"W) I.E.out=58.50(12"E)
CB #4 TYPE 1, W/STANDARD GRATE	RIM=61.00 I.E.out=59.00(12"E)
CB #5 TYPE 1, W/STANDARD GRATE	RIM=61.25 I.E.out=59.25(12"N)
CB #6 TYPE 1, W/SOLID LOCKING LID	RIM=61.60 I.E.in=57.32 (12"S) I.E.in=57.32 (12"E) I.E.out=57.32(12"N)
CB #7 TYPE 1, W/BEEHIVE GRATE	RIM=59.42 I.E.out=57.25(12"N)
CB #8 TYPE 2-48" W/STANDARD GRATE	RIM=61.31 I.E.in=56.95 (12"S)

CONSTRUCTION GENERAL NOTES:

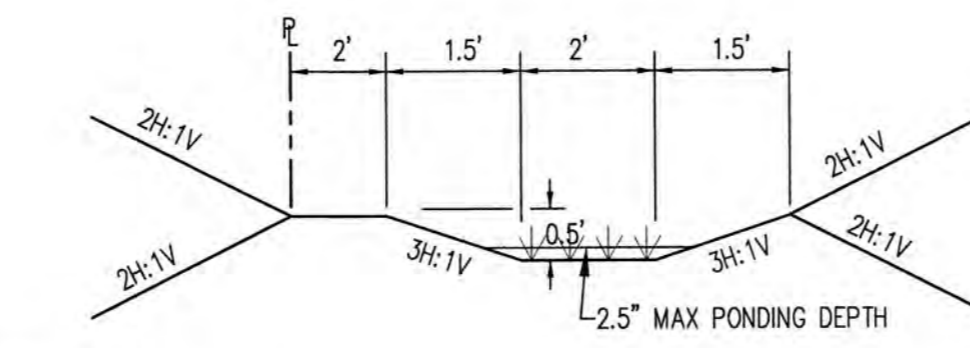
- SEE C.O.P. DETAILS 02.01.02 AND 02.01.05, SHEET C9 FOR TYPE 1 CATCH BASIN AND STANDARD GRATE/FRADE.
- PRIVATELY MAINTAINED STORMWATER CATCH BASINS SHALL BE SIGNED WITH PRE-CUT 90ML TORCH DOWN HEAVY DUTY, INTERSECTION-PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL. IT SHALL READ EITHER "ONLY RAIN DOWN THE DRAIN" OR "NO DUMPING, DRAINS TO STREAM". ALTERNATIVELY, THE GLUE-DOWN MARKERS MAY BE PURCHASED FROM THE CITY FOR A NOMINAL FEE.

CONSTRUCTION KEYNOTES:

- FLOW CONTROL MANHOLE PER CITY STANDARD 02.01.07 ON SHEET C8.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



- SOIL CRITERIA**
- THE FOLLOWING TOP SOIL MIX AT LEAST 8 INCHES DEEP:
 - SANDY LOAM 60-90 PERCENT.
 - CLAY 0-10 PERCENT.
 - COMPOSTED ORGANIC MATTER 10-30 PERCENT (EXCLUDING ANIMAL WASTE, TOXICS).
 - USE COMPOST AMENDED SOIL WHERE PRACTICABLE. COMPOSTED MATERIAL SHALL MEET THE SPECIFICATIONS FOR COMPOST USED IN THE BIORETENTION SOIL MIX NOTE THAT THIS EXCLUDES THE USE OF BIOSOLIDS AND MANURES.
 - TILL TO AT LEAST AN 8-INCH DEPTH.
 - FOR LONGITUDINAL SLOPES OF LESS THAN 2 PERCENT USE MORE SAND TO OBTAIN MORE INFILTRATION.

CONTINUOUS INFLOW BIOFILTRATION SWALE 'BIOSWALE' SECTION
N.T.S.

- NOTES:**
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 - SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS

CALL 48 HOURS BEFORE YOU DIG DIAL 811

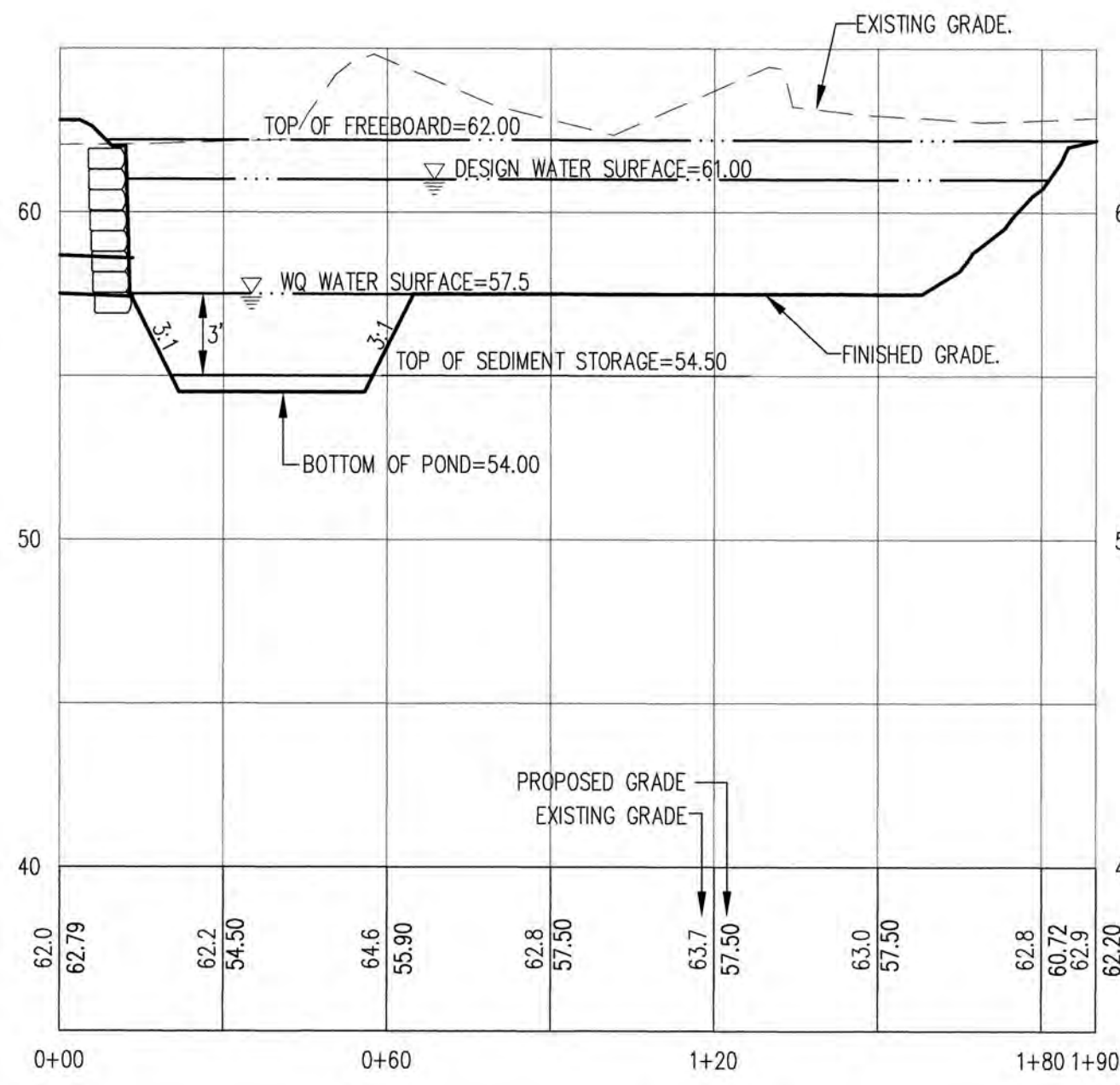
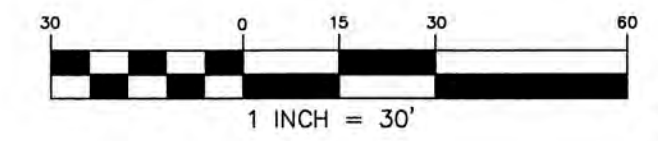
2412 INTER AVE
 A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
 WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

APPROVED
 BY: *[Signature]*
 CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING
 STATUS: 07/17/2025
 REVIEWER NAME: _____
 DATE: _____

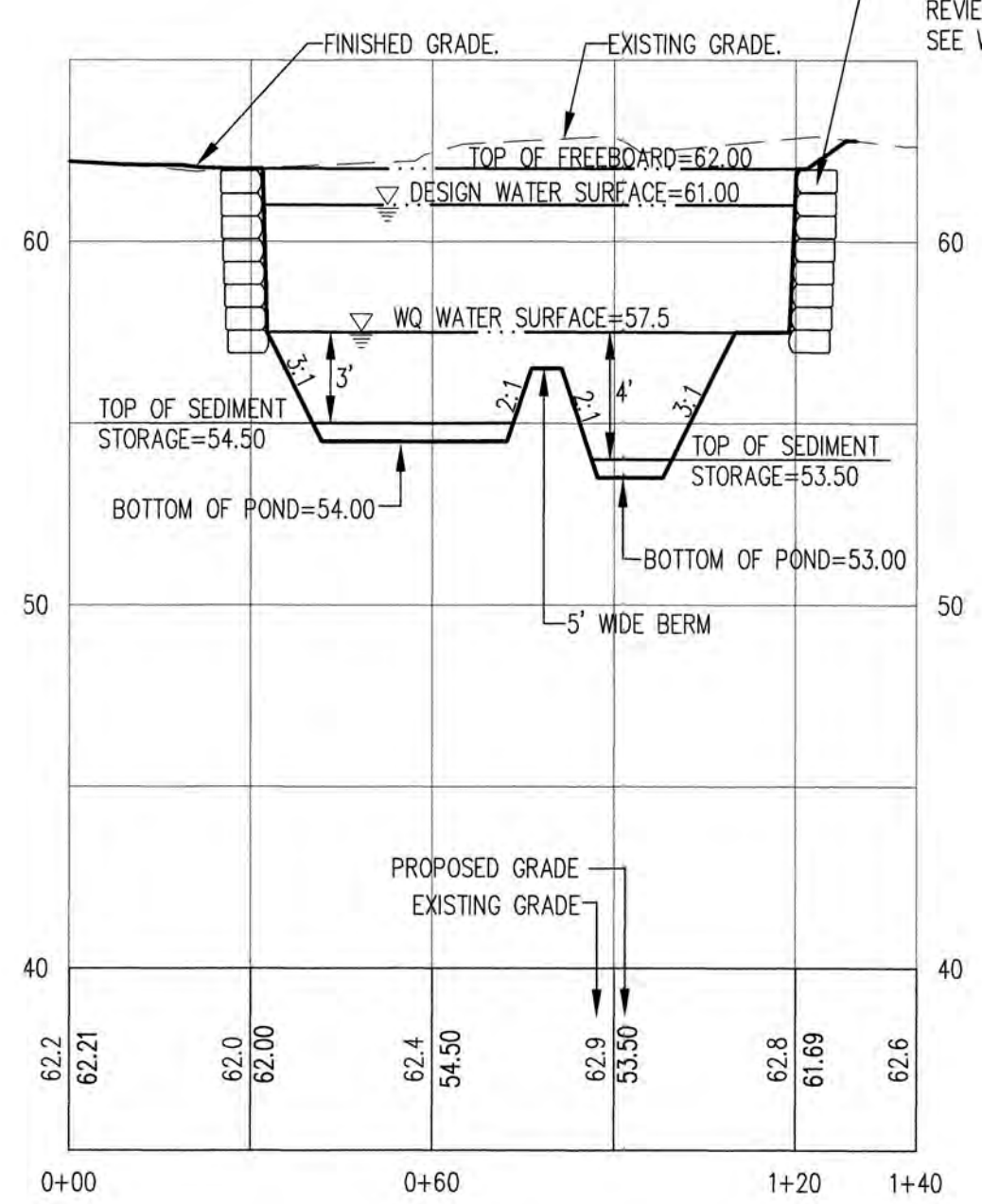
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

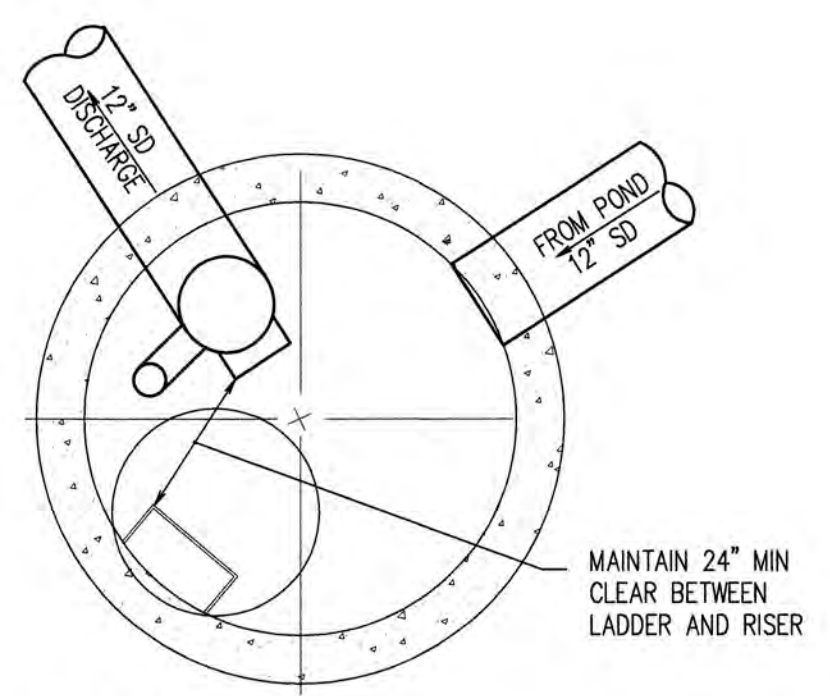
Building	Planning
Engineering	Public Works
Fire	Traffic



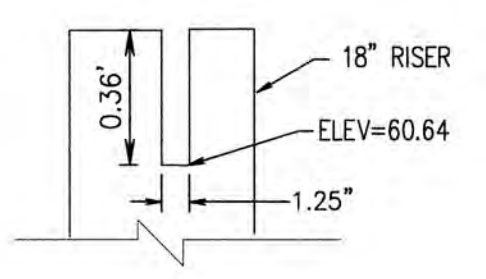
SECTION A-A
 1"=30' HORIZ, 1"=5' VERT



SITE SECTION B-B
 1"=30' HORIZ, 1"=5' VERT



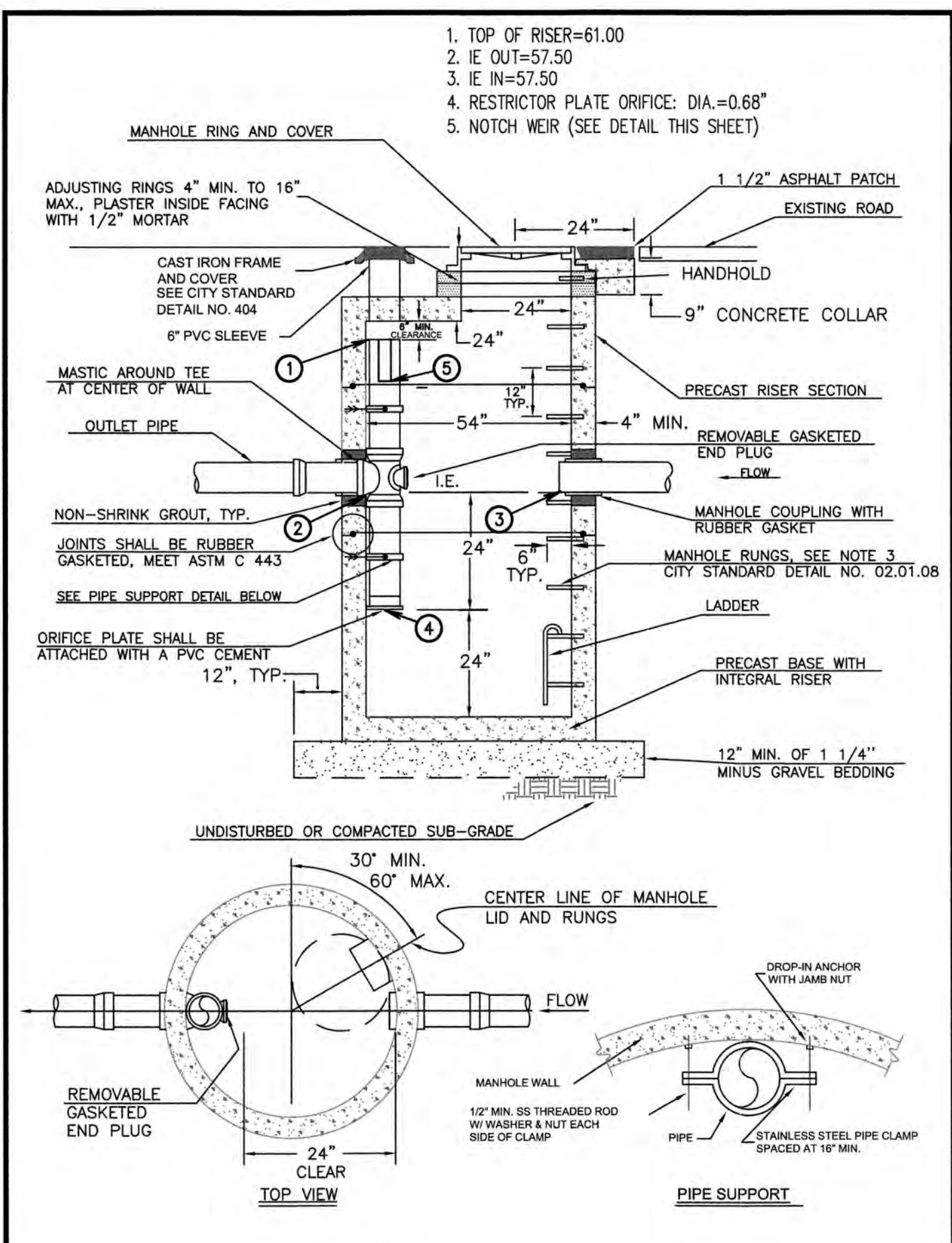
PLAN VIEW
 SCALE: 1"=2'



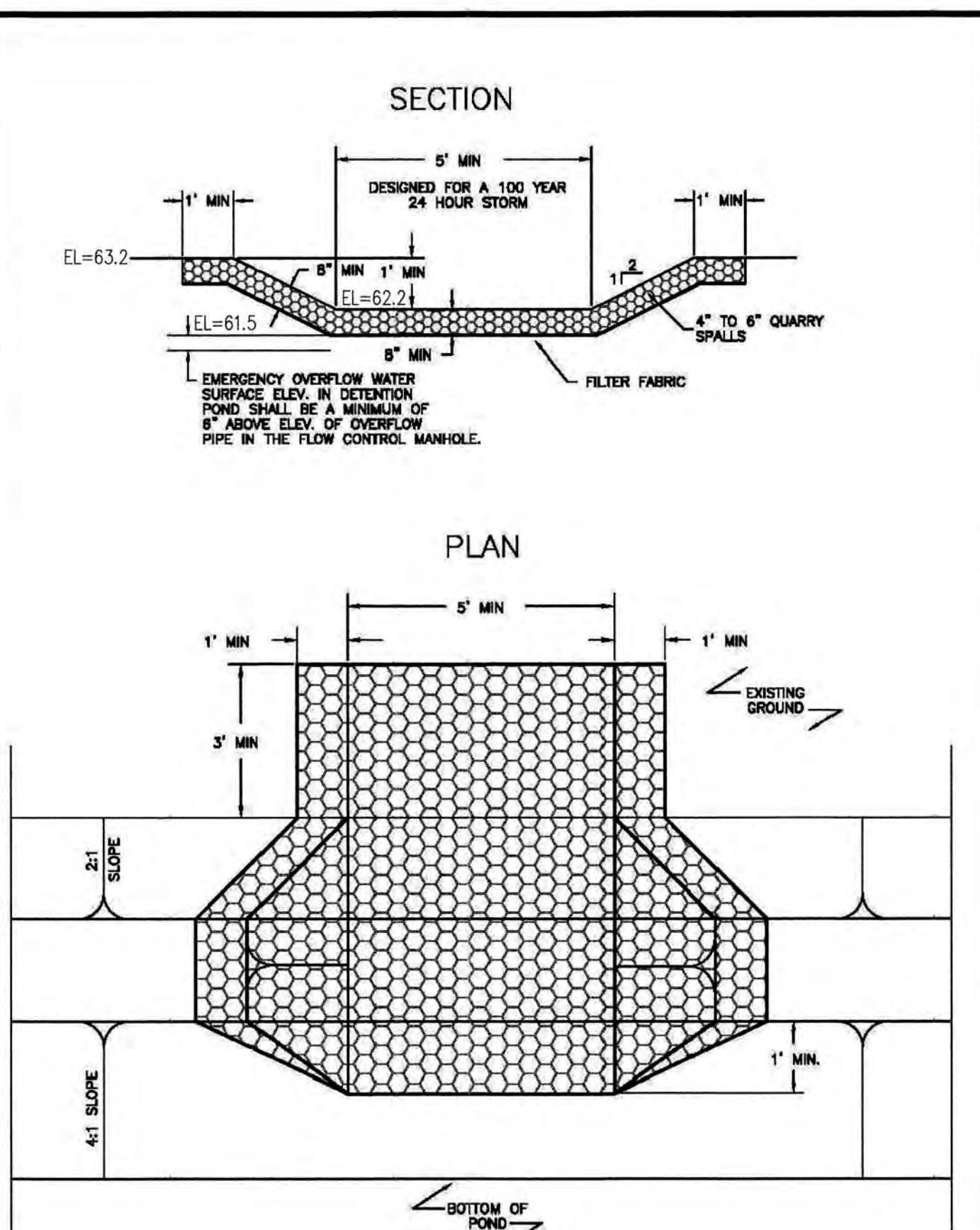
NOTCH DETAIL
 N.T.S.

FLOW CONTROL RISER SCHEDULE

NO.	ELEV.	TYPE	SIZE
1	61.00	TOP	18"
2	57.50	OUTLET	12"
3	57.50	INLET	12"
4	55.50	ORIFICE	0.68"
5	60.64	WEIR	1.25"



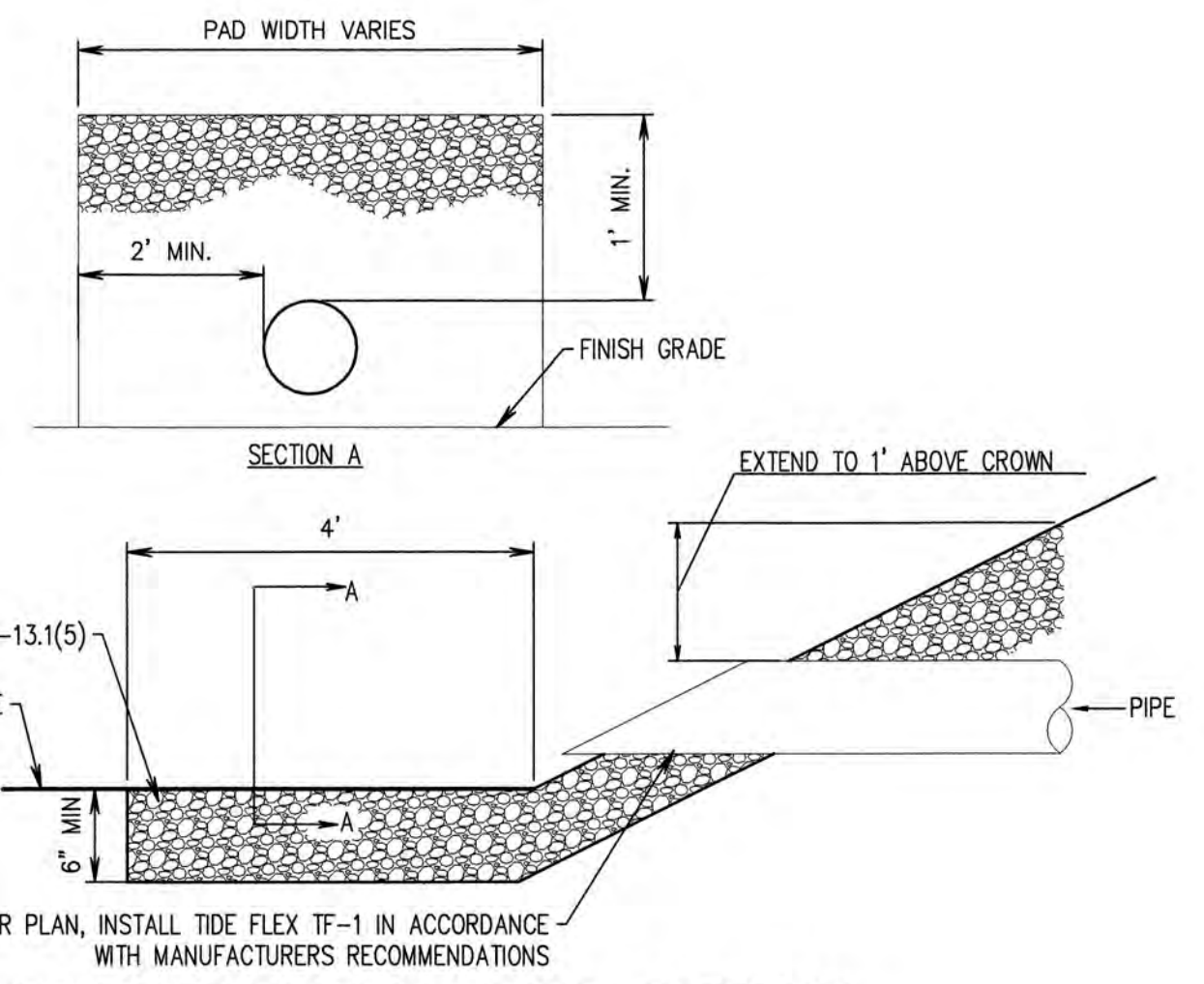
- NOTES FOR FLOW CONTROL MANHOLE:**
- NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
 - FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
 - MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (ASHTO M-199) AND MEET ALL WISHA REQUIREMENTS. MANHOLE RUNGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A RUNG LEG IS PROHIBITED. SEE MANHOLE STEP AND LADDER DETAIL, CITY STANDARD DETAIL NO. 06.01.04.
 - PRECAST RISER SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF TWO (2) INCHES MINIMUM. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MINIMUM DISTANCE BETWEEN HOLES IS EIGHT (8) INCHES.
 - PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
 - FLEXIBLE JOINTS SHALL BE RUBBER GASKETED IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS. MORTARED, DRY-PAKED, OR CAST-IN-PLACE JOINTS WILL BE PERMITTED FOR CONNECTIONS TO OR THROUGH MANHOLES. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO OR THROUGH SAID MANHOLES. CONNECTIONS TO MANHOLE WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.
 - THE COVER ON THE MANHOLE SHALL BE MARKED WITH "STORM" OR "DRAIN" IN TWO (2) INCH RAISED LETTERS. SEE MANHOLE RING AND COVER DETAIL, CITY STANDARDS DETAIL NO. 06.01.02 AND 06.01.03.
 - STAINLESS STEEL PIPE CLAMP WITH 1/2" DIAMETER STAINLESS STEEL THREADED ROD WITH WASHER AND NUT EACH SIDE OF CLAMP. PROVIDE 1/2" DIAMETER DROP-IN ANCHOR WITH JAMB NUT AT WALL. PIPE CLAMPS SHALL BE PLACED AT SIXTEEN (16) INCHES ON CENTER.
 - FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.



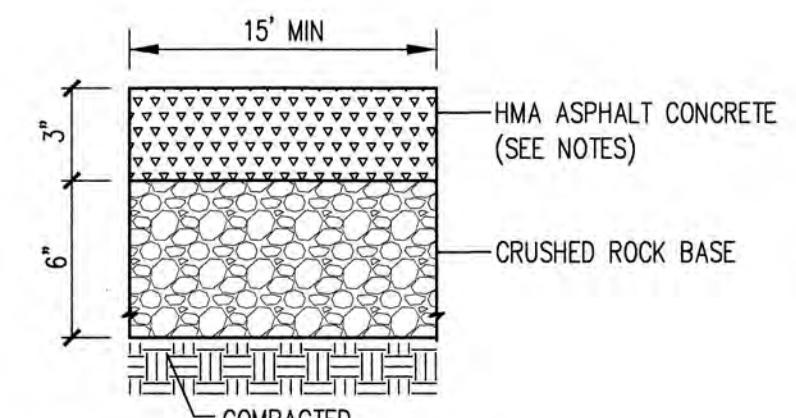
CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and
 PUBLIC WORKS DEPARTMENTS

DETECTION POND EMERGENCY OVERFLOW

DESIGNED BY: [Name]	CHECKED BY: [Name]	APPROVED BY: [Name]	REVISION #1: [Date]	CITY STANDARD: 02.03.01
FILE NAME: P:\PROJECTS\2025\2412 INTER AVE\DWG\2412_020301.dwg	DATE APPROVED: 06/11/2025	DATE REVISION: 06/11/2025	SCALE: 1/8\"/>	



ROCK SPLASH PAD AT PIPE OUTLET
 NOT TO SCALE



NOTE:
 1. DEPTHS ARE COMPACTED THICKNESS.

ASPHALT CONCRETE ACCESS ROAD FOR POND
 N.T.S.

- NOTES:**
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 - SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS.

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CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and
 PUBLIC WORKS DEPARTMENTS

FLOW CONTROL MANHOLE WITH FLAT TOP

DESIGNED BY: [Name]	CHECKED BY: [Name]	APPROVED BY: [Name]	REVISION #1: [Date]	CITY STANDARD: 02.01.07
FILE NAME: P:\PROJECTS\2025\2412 INTER AVE\DWG\2412_020107.dwg	DATE APPROVED: 06/11/2025	DATE REVISION: 06/11/2025	SCALE: 1/8\"/>	

CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and
 PUBLIC WORKS DEPARTMENTS

FLOW CONTROL MANHOLE NOTES

DESIGNED BY: [Name]	CHECKED BY: [Name]	APPROVED BY: [Name]	REVISION #1: [Date]	CITY STANDARD: 02.01.08
FILE NAME: P:\PROJECTS\2025\2412 INTER AVE\DWG\2412_020108.dwg	DATE APPROVED: 06/11/2025	DATE REVISION: 06/11/2025	SCALE: 1/8\"/>	

2412 INTER AVE POND PLAN

THROUGH TERRA

Project: 2412 INTER AVE POND PLAN
 Client: rich@trough-terra.com

Designed: DPS
 Drawn: MFB
 Checked: CAD

Scale: 1"=50'
 Date: 6/17/25
 Job No.: 20083

Sheet No.: **C8**
 8 of 20 Sheets

2412 INTER AVE

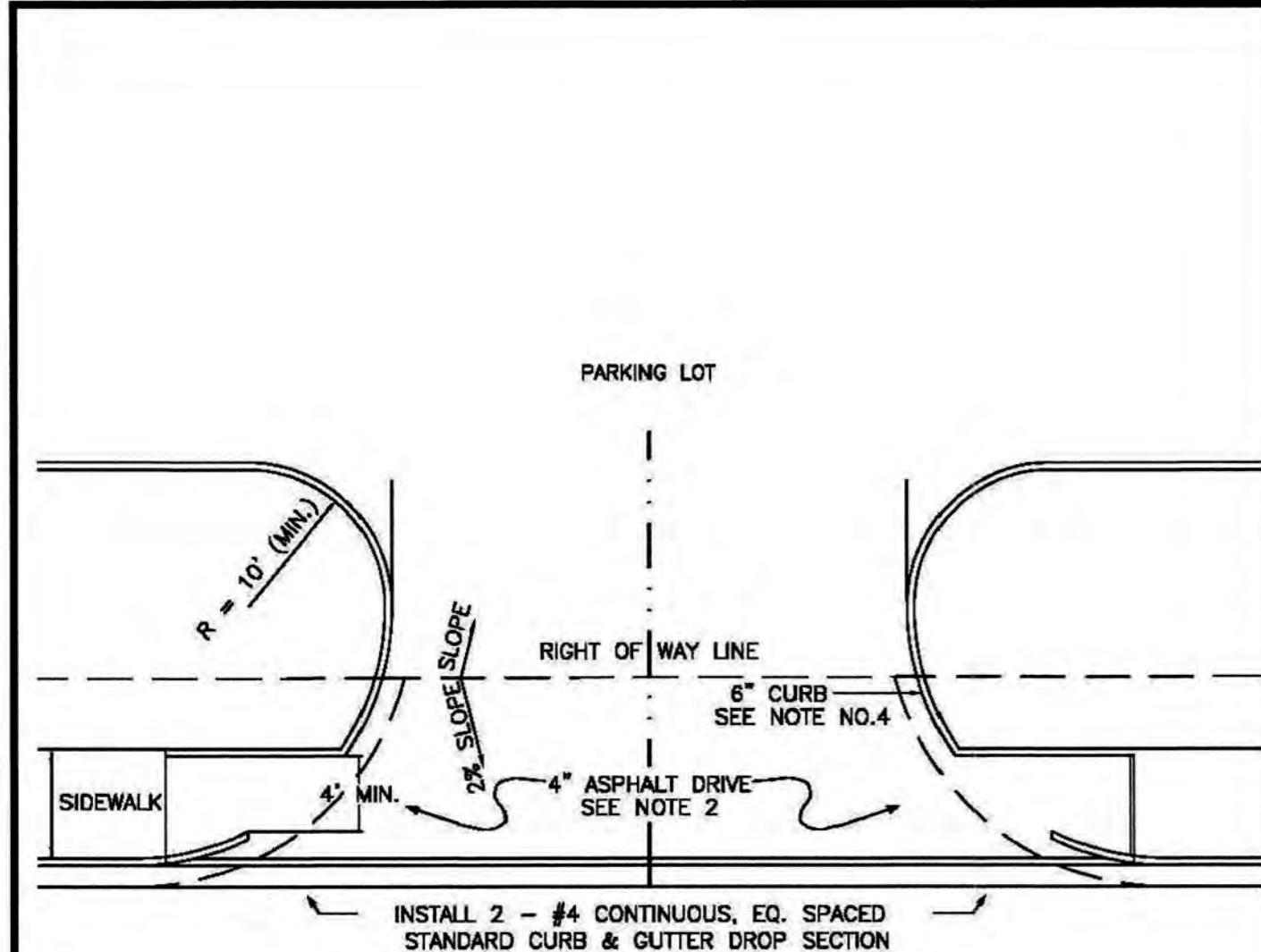
A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED
[Signature]
BY
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
07/17/2025
DATE

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

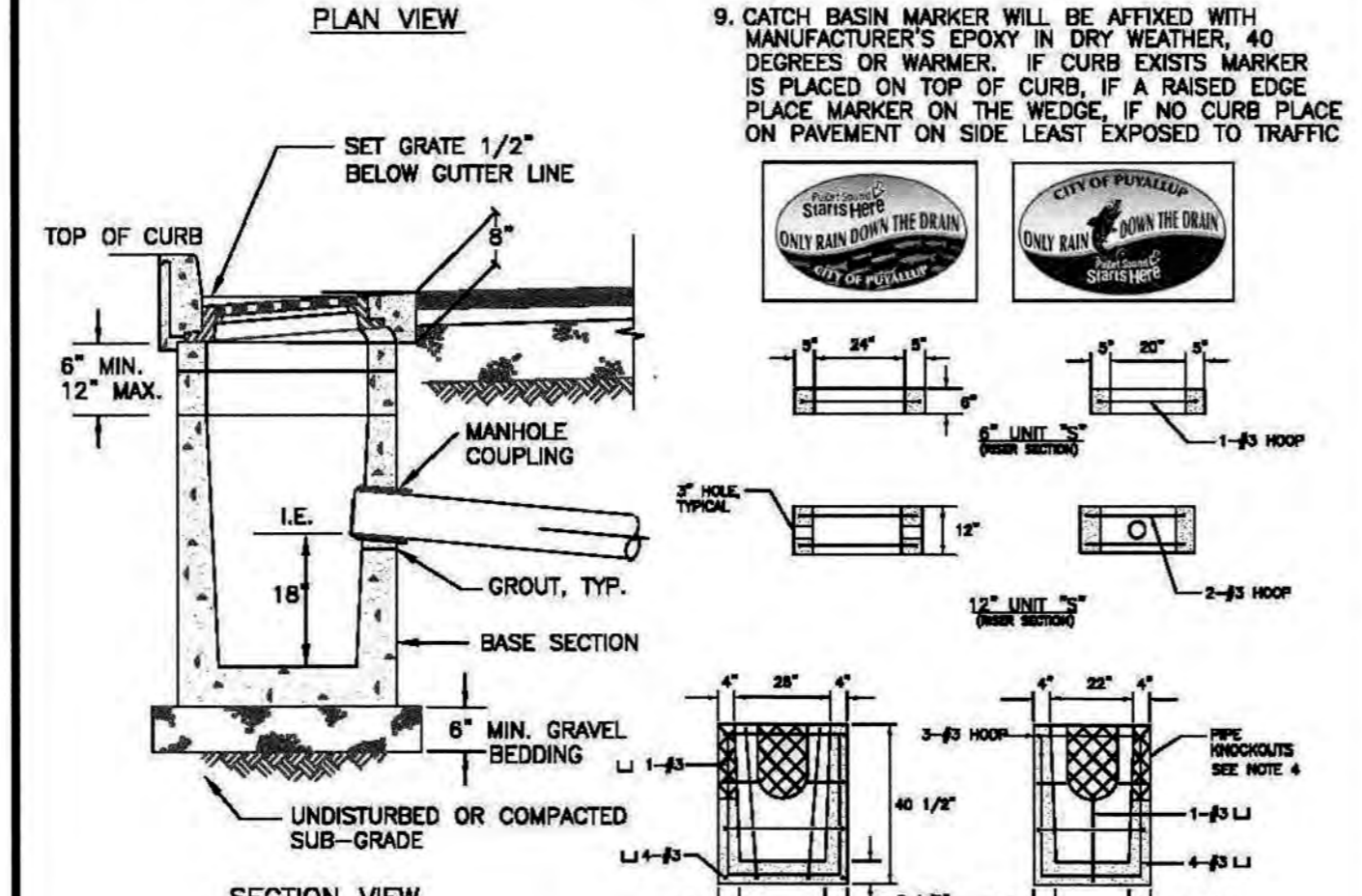
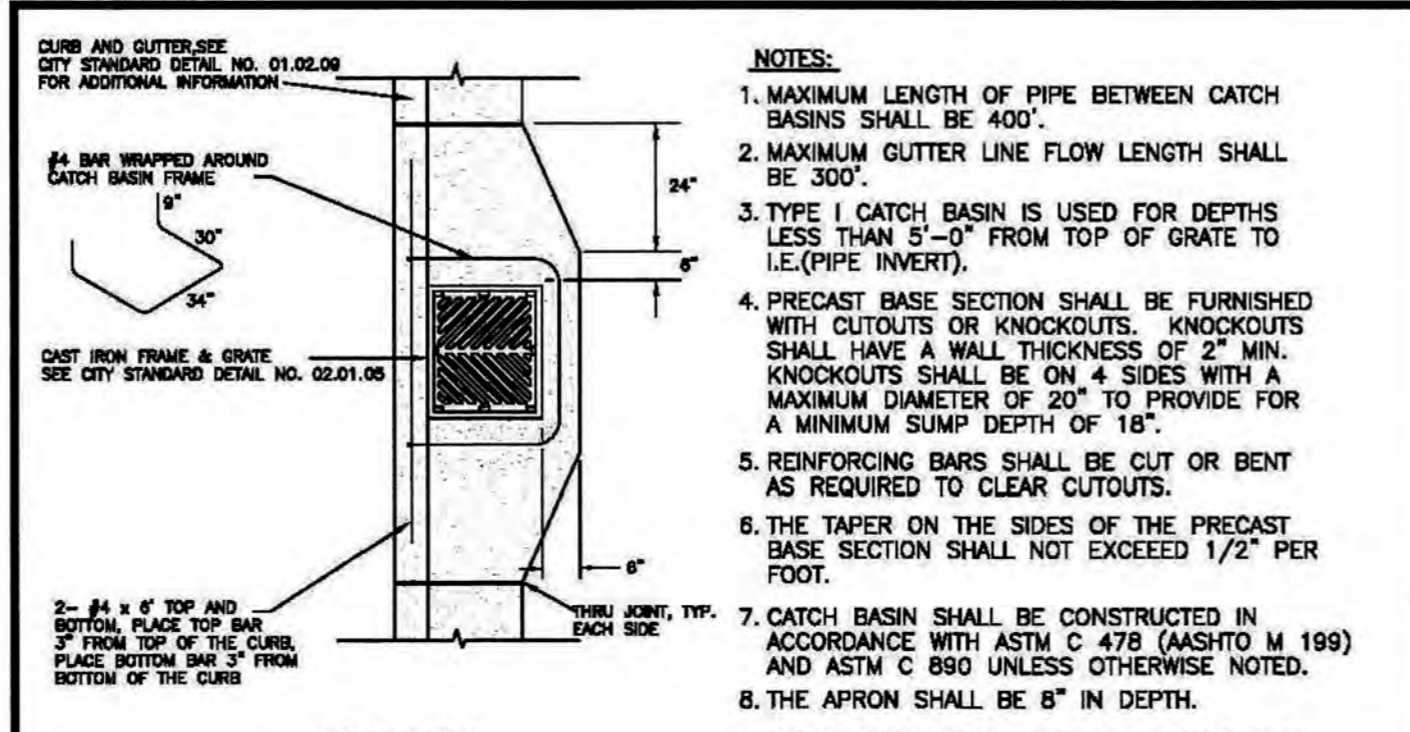


- NOTES:**
1. TYPICAL COMMERCIAL APPROACHES SHALL BE 30' WIDE AND INCLUDE 35' CURB RADI. IF TRUCKS ARE EXPECTED TO USE THE APPROACH, DRIVEWAY WIDTH, CHANNELIZATION, AND CURB RADI SHALL BE BASED ON AN APPROVED TURNING MOVEMENT ANALYSIS.
 2. ALL ASPHALT PAVEMENT MUST CONFORM TO CITY STANDARD NO. 01.01.01.
 3. APPROACH SHALL BE ASPHALT WITH STANDARD CURB AND GUTTER PLACED ON EACH SIDE OF THE APPROACH.
 4. WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STANDARDS. DETECTABLE WARNING PATTERNS SHALL BE CONSTRUCTED AT A DRIVEWAY ONLY WHEN IT WILL BE SIGNALIZED. CURB RAMP SLOPE SHALL NOT EXCEED 8.3% AS MEASURED BY A SMART LEVEL, UNLESS RAMP LENGTH IS EXTENDED TO 15'. SEE DETAIL 02.02.19 FOR ADDITIONAL ADA RAMP INFORMATION.
 5. SPACING OF COMMERCIAL APPROACHES ON PRINCIPAL AND MINOR ARTERIALS SHALL BE MINIMUM 300' AND SPACING ON COLLECTORS SHALL BE MINIMUM 150'. MEASURED BETWEEN THE CLOSEST EDGES OF EACH DRIVEWAY. THIS REQUIREMENT IS ALSO APPLICABLE TO THE DRIVEWAYS THAT ARE ACROSS THE STREET.
 6. SPACING OF COMMERCIAL APPROACHES FROM PRINCIPAL AND MINOR ARTERIALS SHALL BE MINIMUM 300' AND SPACING FROM A COLLECTOR SHALL BE MINIMUM 150'. MEASURED FROM NEAREST ROW LINE TO APPROACH PAVEMENT EDGE. THE CITY MAY BE MORE RESTRICTIVE THAN SPECIFIED HEREIN IF DEEMED NECESSARY BASED ON TRAFFIC VOLUMES, CHANNELIZATION AND SIGNALIZATION.
 7. THIS COMMERCIAL APPROACH STANDARD SHALL BE USED ON ARTERIALS AND COLLECTORS WITH SPEED LIMITS OF 35 MPH OR GREATER, AND/OR WHEN TRUCK TRAFFIC WILL BE USING THE APPROACH.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STANDARD COMMERCIAL APPROACH

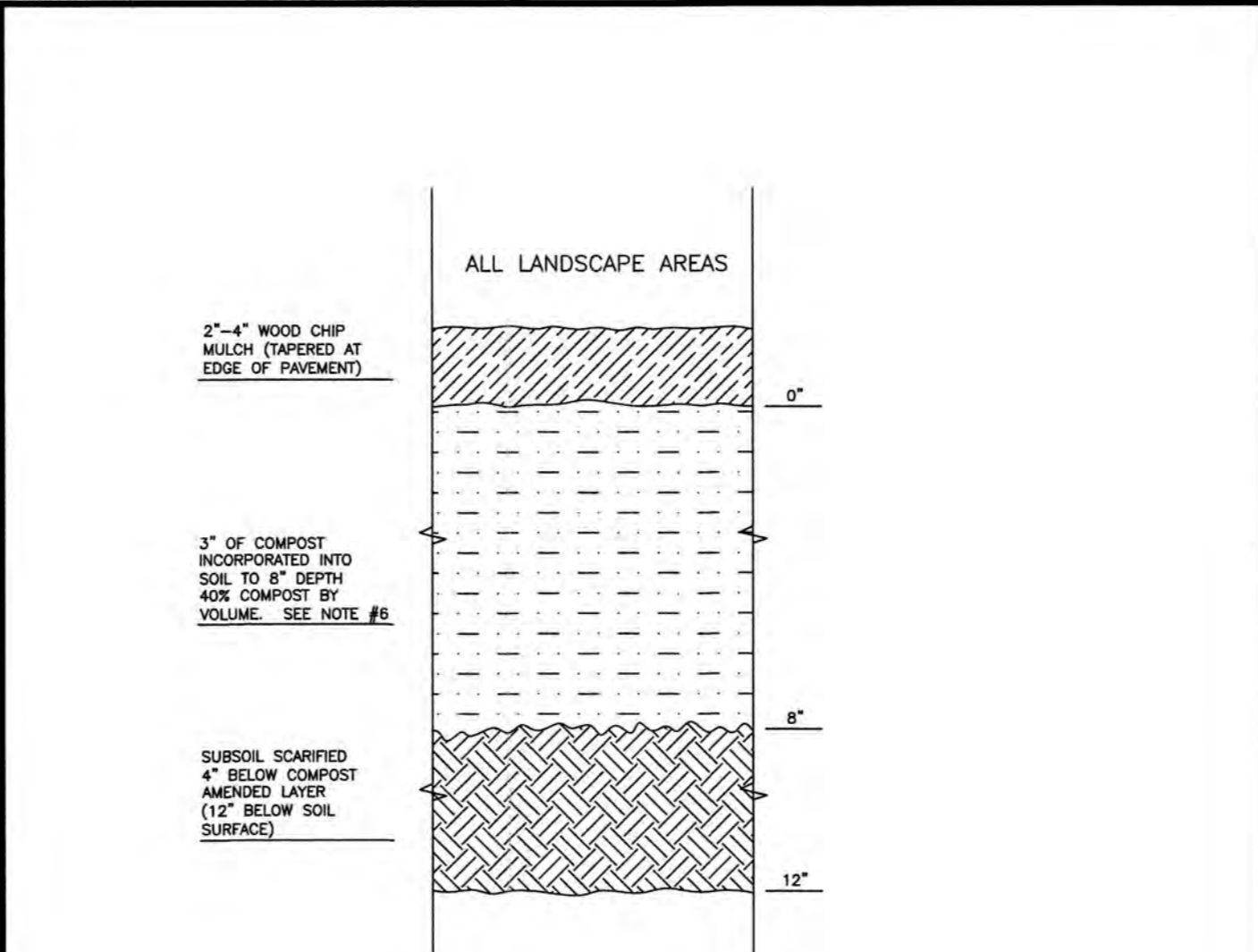
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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (GUTTER DRAIN)

DESIGNED BY LINDA LANG	CHECKED BY LINDA LANG	APPROVED BY COLLEEN TORRES	DATE APPROVED 06/26/2025	CITY STANDARD 02.01.03
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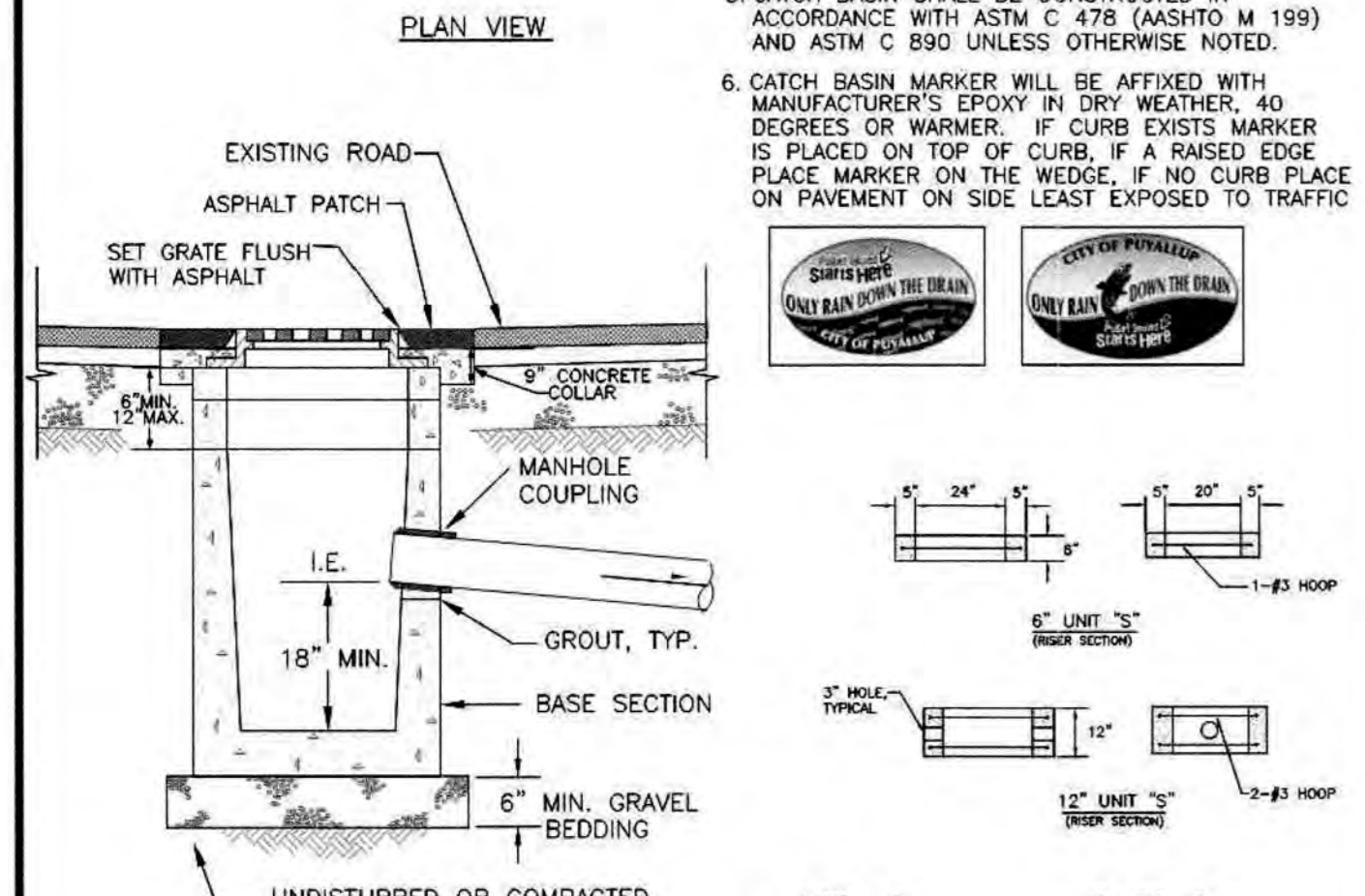
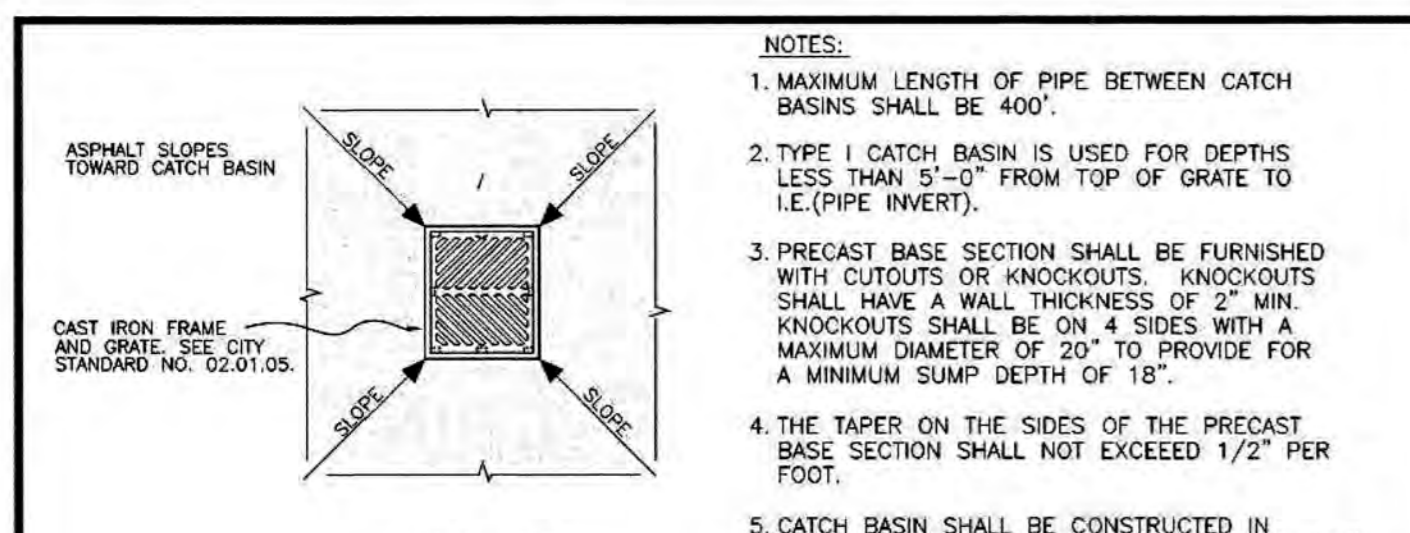


- NOTES:**
1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
 2. SUBSOIL SHOULD BE SCARIFIED (LOOSENE) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER. SEE NOTE BELOW REGARDING PLANTING STEPS FOR STREET TREES.
 3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATION.
 4. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL (6" OF LOOSE WOOD CHIPS AT THE TIME OF PLANTING TO ALLOW SETTLING TO 4").
 5. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST-AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VALVES, METERS ETC.) WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS. SOIL SHOULD BE COMPACTED TO APPROXIMATELY 95% PROCTOR TO ENSURE A FIRM SURFACE.
 6. SEE SECTION 8.2(B) OF THE VMS FOR SOIL AMENDMENT AND INSTRUCTION PROCEDURES FOR STREET TREE PLANTER STRIPS. ALL STREET TREE PLANTER STRIPS SHALL RECEIVE 40% COMPOST AMENDED SOIL TO THE FULL DEPTH OF THE STREET TREE ROOTBALL.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SOIL AMENDMENT AND DEPTH

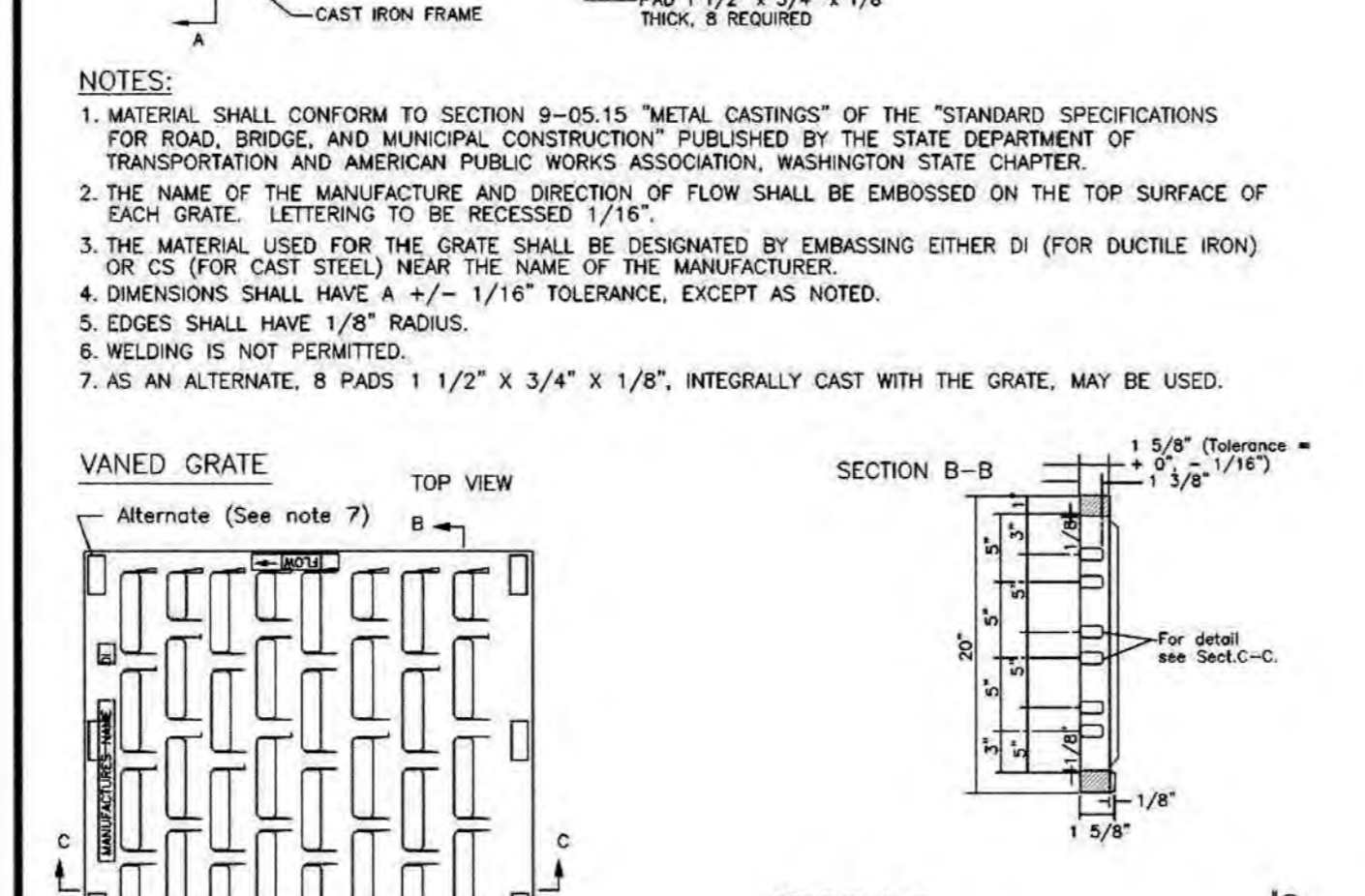
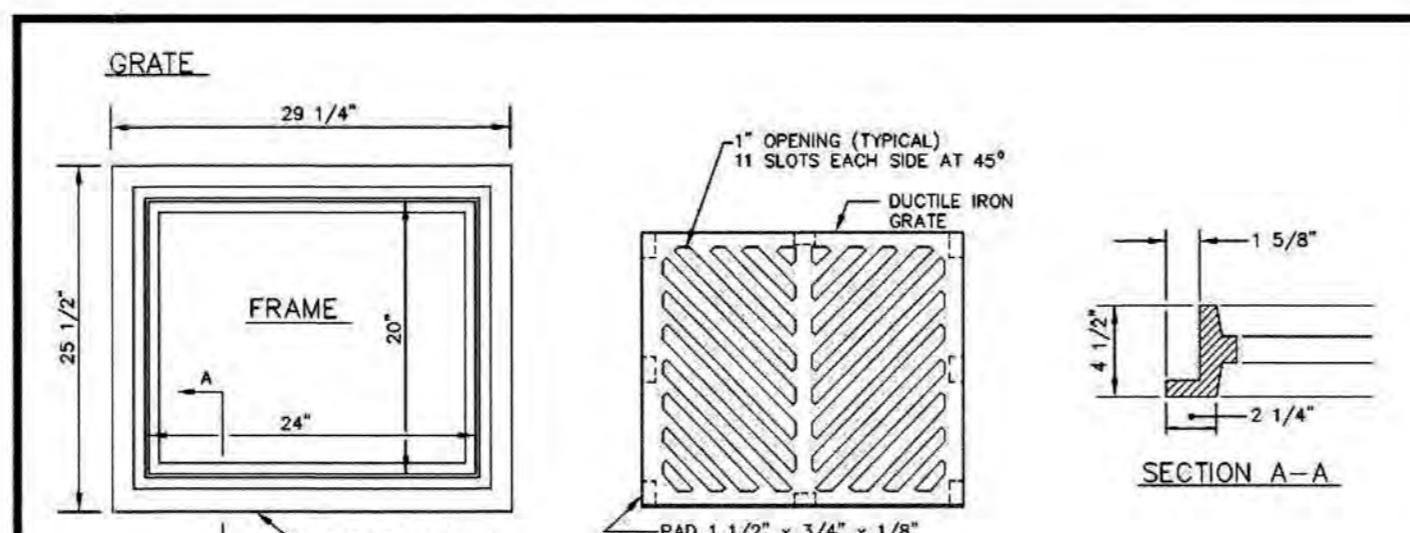
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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (AREA DRAIN)

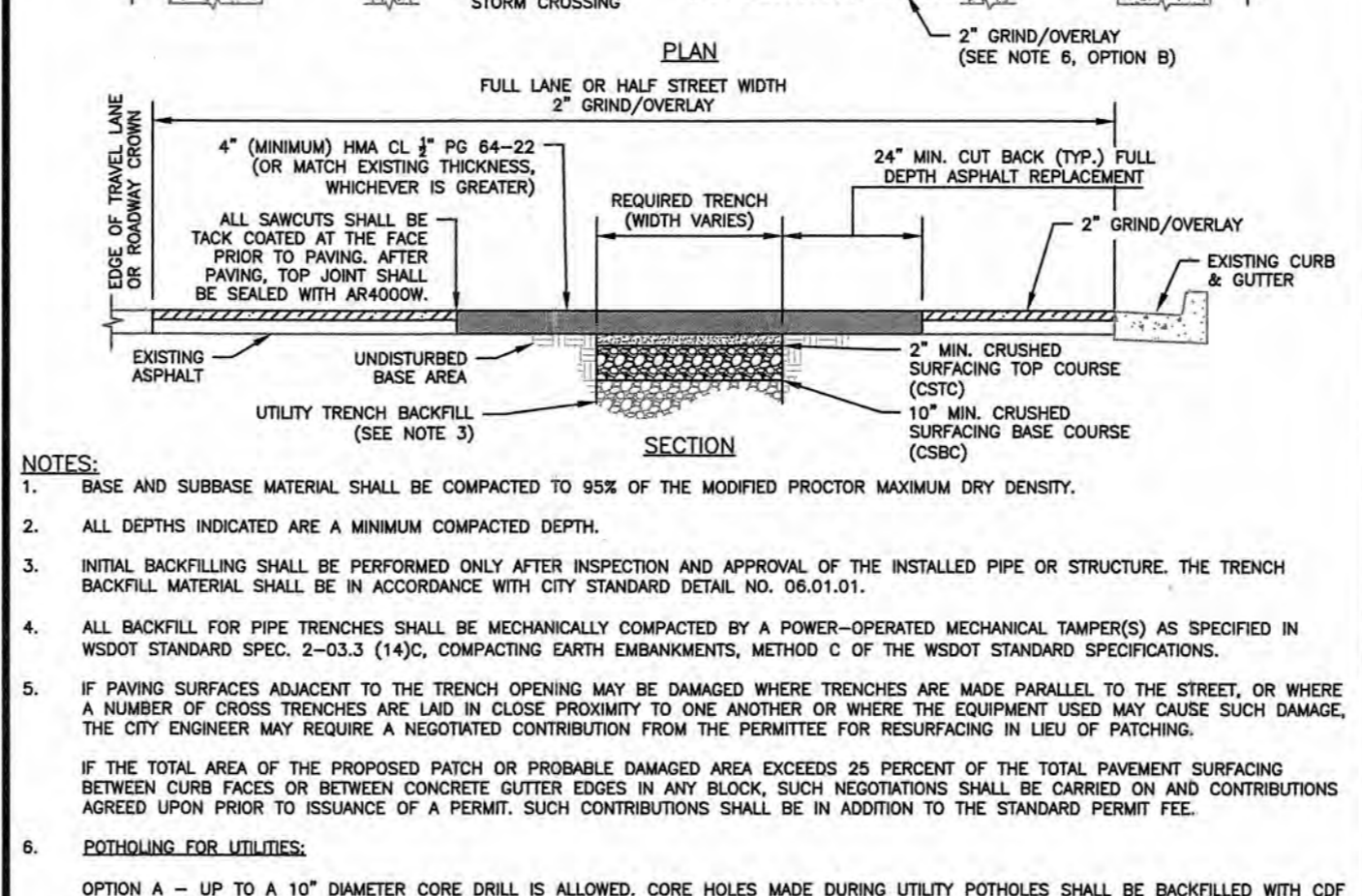
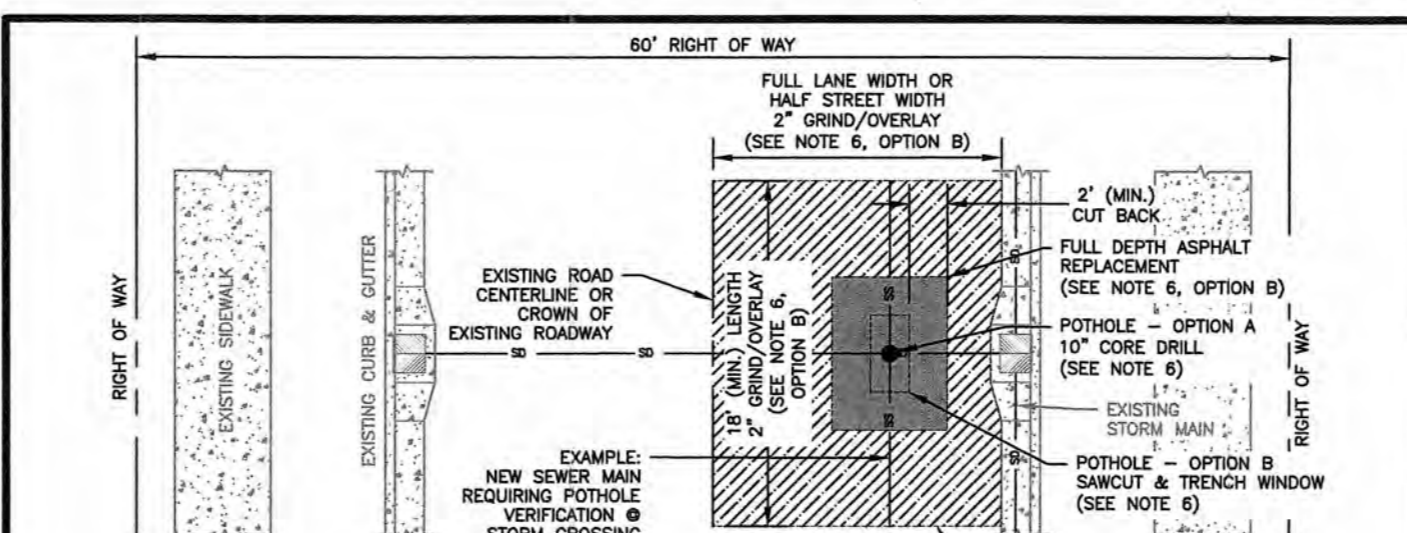
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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

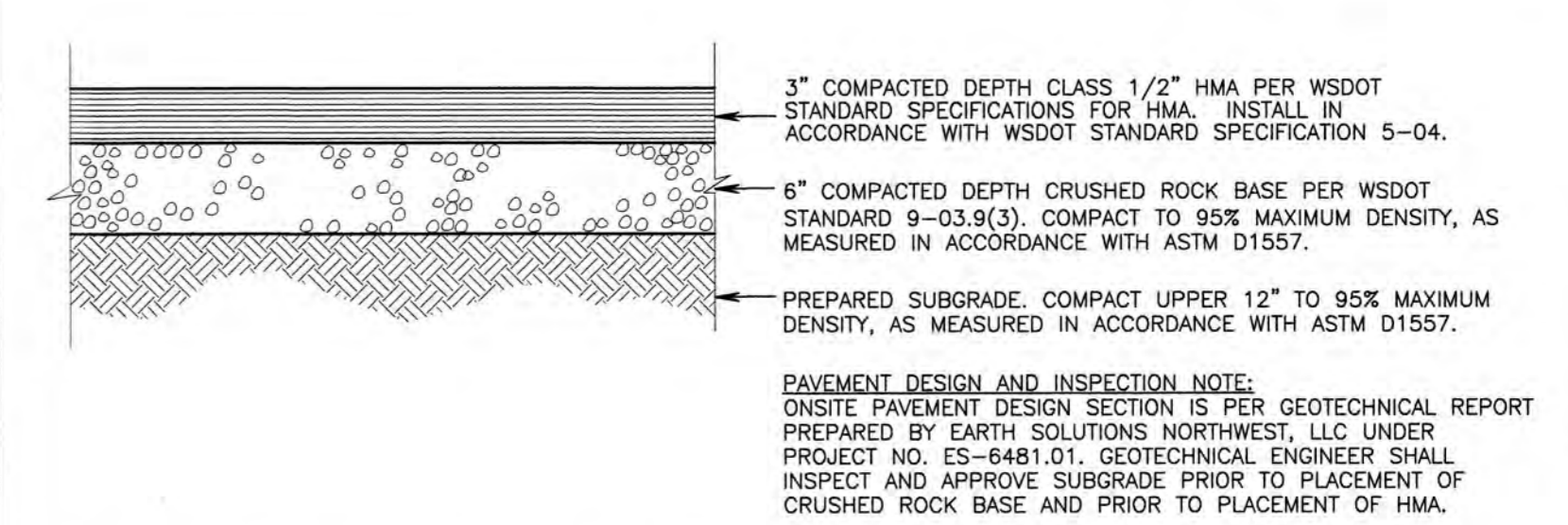
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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STREET PATCH

DESIGNED BY LINDA LANG	CHECKED BY LINDA LANG	APPROVED BY COLLEEN TORRES	DATE APPROVED 06/26/2025	CITY STANDARD 01.01.20
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ON SITE ASPHALT PAVEMENT SECTION

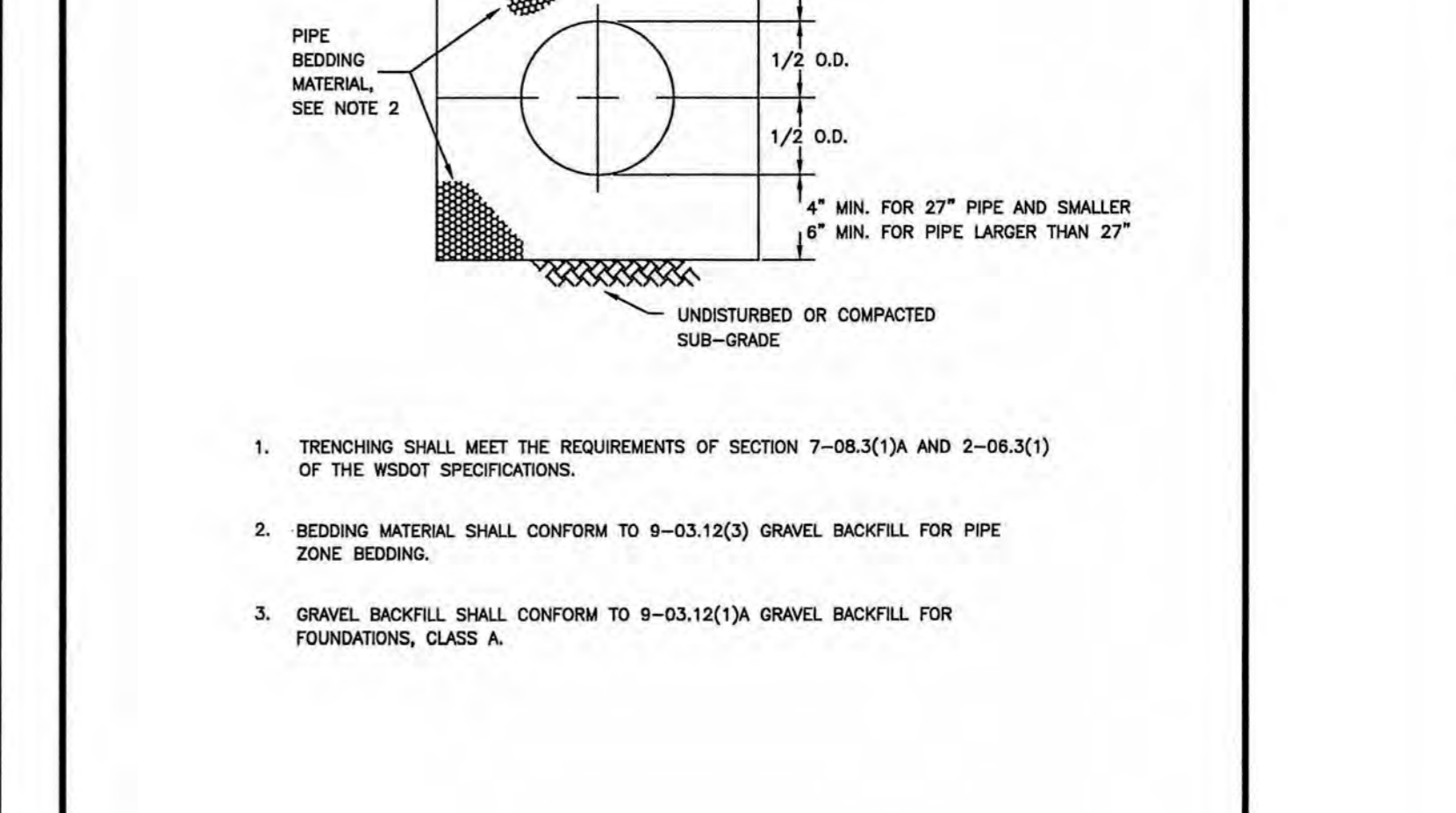
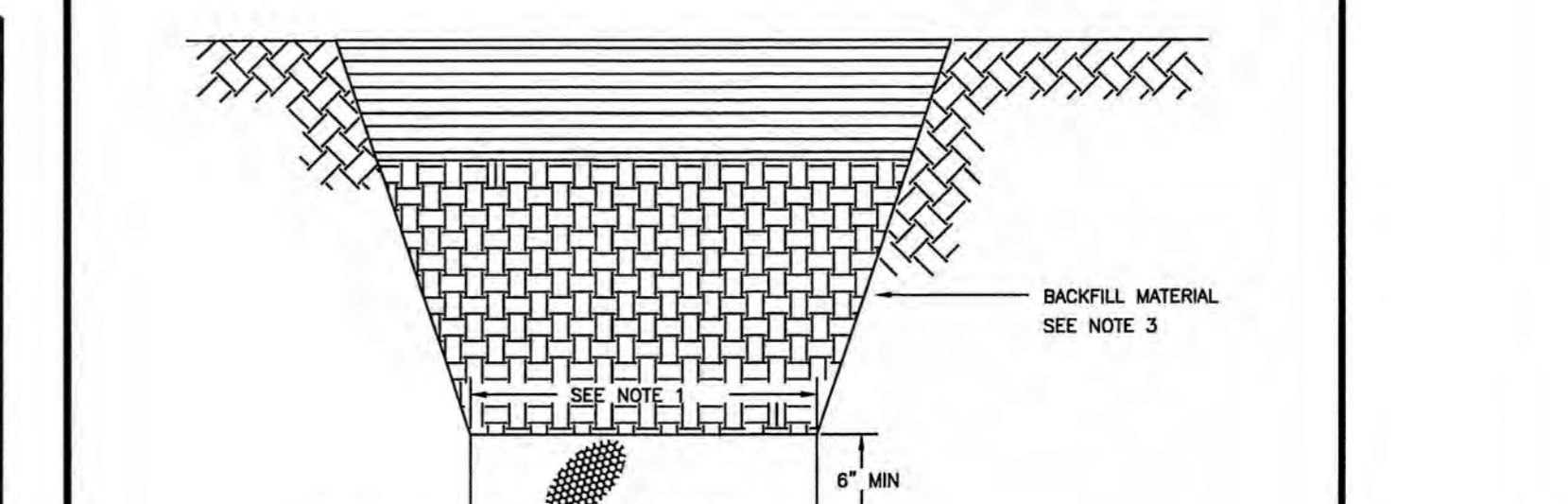
NOT TO SCALE

- NOTES:**
1. STANDARD SPECIFICATIONS FOR HMA. INSTALL IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 5-04.
 2. 6" COMPACTED DEPTH CRUSHED ROCK BASE PER WSDOT STANDARD 9-03.9(3). COMPACT TO 95% MAXIMUM DENSITY, AS MEASURED IN ACCORDANCE WITH ASTM D1557.
 3. PREPARED SUBGRADE. COMPACT UPPER 12" TO 95% MAXIMUM DENSITY, AS MEASURED IN ACCORDANCE WITH ASTM D1557.
- PAVEMENT DESIGN AND INSPECTION NOTE:**
ONSITE PAVEMENT DESIGN SECTION IS PER GEOTECHNICAL REPORT PREPARED BY EARTH SOLUTIONS NORTHWEST, LLC UNDER PROJECT NO. ES-6481.01. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE SUBGRADE PRIOR TO PLACEMENT OF CRUSHED ROCK BASE AND PRIOR TO PLACEMENT OF HMA.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

PIPE TRENCHING BEDDING AND BACKFILL

DESIGNED BY LINDA LANG	CHECKED BY LINDA LANG	APPROVED BY COLLEEN TORRES	DATE APPROVED 06/26/2025	CITY STANDARD 06.01.01
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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CONSTRUCTION NOTES AND DETAILS

DESIGNED BY LINDA LANG	CHECKED BY LINDA LANG	APPROVED BY COLLEEN TORRES	DATE APPROVED 06/26/2025	CITY STANDARD 06.01.01
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Revision: _____
Date: _____

C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING
429 - 29TH ST. NE, SUITE D
PUYALLUP, WA 98372
PH: (253) 848-4292
ces@cesnw.com

Project: 2412 INTER AVE
Client: richthrough-terra.com

Designed: DPB
Drawn: MFB
Checked: CAD

Scale: 1"=50'
Date: 6/17/25
Job No.: 20083

Sheet No.: **C9**
9 of 20 Sheets

ROADWAY NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

WATER NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR, PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
- PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.
- CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6-INCH TAP ON 8-INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.
- VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
- RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.
- PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
- WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
- TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
- ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.
- WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED FROM THE WORKER REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.

- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. ALL BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION LAWS.
- CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.
- SIDEWALKS AND DRIVEWAYS SHALL BE INSTALLED AS LOTS ARE BUILT ON. SIDEWALKS AND DRIVEWAYS SHALL CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12. IF ASPHALT IS DAMAGED DURING REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.
- THE SURROUNDING GROUND (5 FEET BEYOND THE BASE) FOR ALL POWER TRANSFORMERS, TELEPHONE/TV PEDESTALS, AND STREET LIGHT MAIN DISCONNECTS SHALL BE GRADED TO A POSITIVE 2 PERCENT SLOPE FROM TOP OF CURB.
- SIGNAGE AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS AND SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY OR PLAT APPROVAL. HOWEVER, IN LARGER DEVELOPMENTS, EXACT LOCATIONS OF STOP AND YIELD SIGNS MAY NEED TO BE DETERMINED AFTER FULL BUILDOUT WHEN TRAFFIC PATTERNS HAVE BEEN ESTABLISHED. IN THIS CASE, CONTRACTOR SHALL PROVIDE INDICATED "CITY-PLACED" SIGNS, SIGNPOSTS, AND BRACKETS TO THE CITY SIGN SPECIALIST (253) 841-5471 FOR LATER INSTALLATION BY THE CITY. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- PRIOR TO ANY SIGN OR STRIPING INSTALLATION OR REMOVAL, THE CONTRACTOR SHALL CONTACT THE CITY SIGN SPECIALIST (253) 841-5471 TO ARRANGE FOR AN ON-SITE MEETING TO DISCUSS PLACEMENT AND UNIFORMITY.
- NEW OR REVISED STOP SIGNS OR YIELD SIGNS SHALL BE ADVANCE WARNED USING THE PROCEDURE OUTLINED IN THE MUTCD. ADVANCE WARNING SIGNS AND FLAGS SHALL BE MAINTAINED BY INSTALLER FOR 30 DAYS AND THEN REMOVED.

- SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.
- WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09)

(NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)

- REPAIR WITHOUT DEPRESSURIZATION - SMALL LEAKS SHALL BE REPAIRED USING REPAIR BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER-EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF).
- REPAIR/CUT-IN WITH DEPRESSURIZATION - TRENCH SHALL BE OVER EXCAVATED AND DEWATERED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR. IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER MAIN BREAK PROCEDURE."

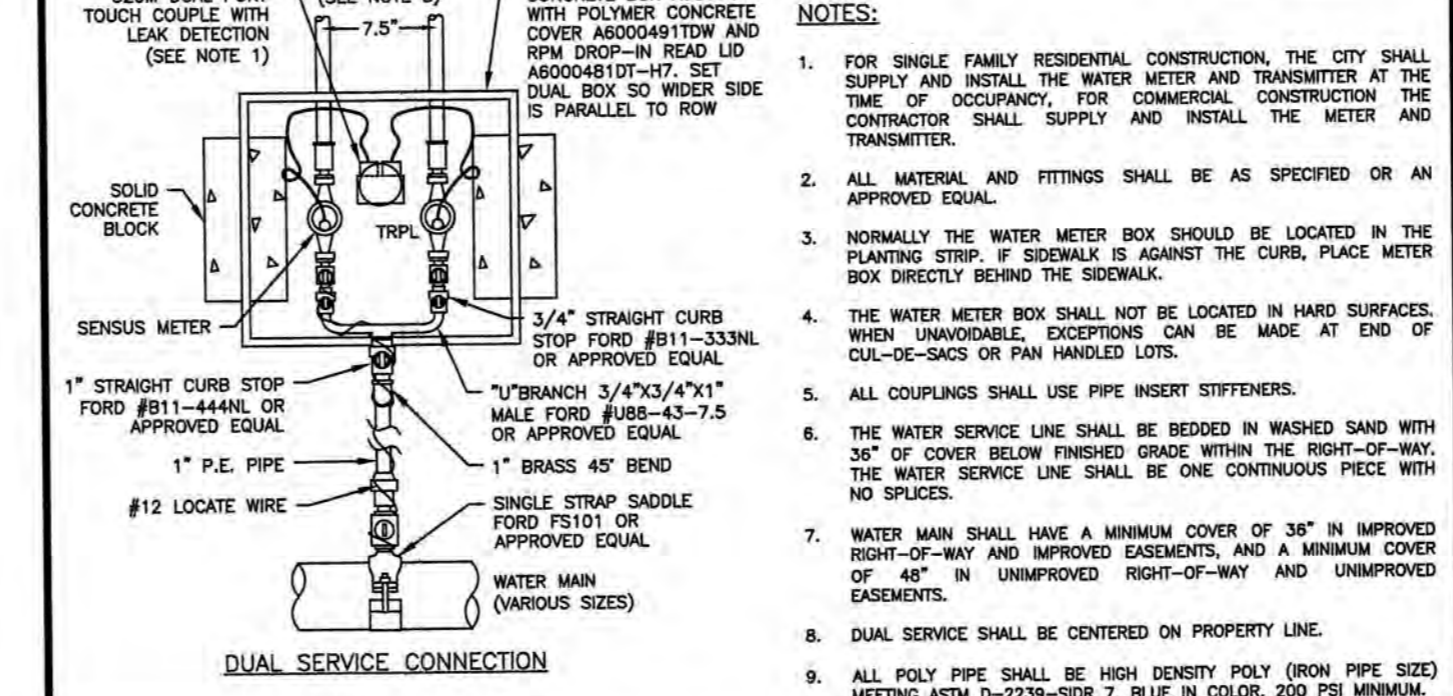
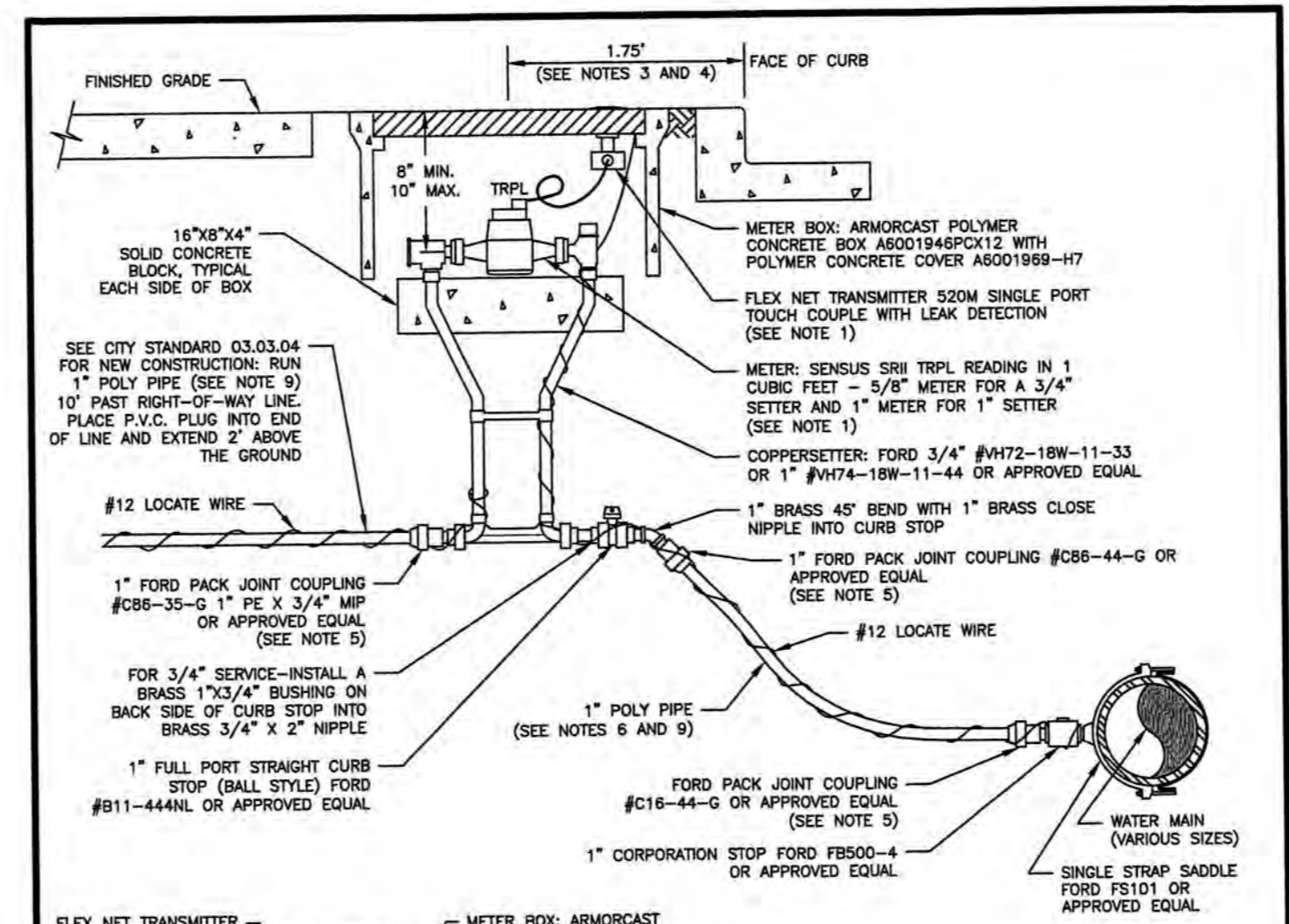
- NEW WATER MAIN INSTALLATION:
 - EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED.

65% CALCIUM HYPOCHLORITE ADDITION PER PIPE SECTION

PIPE DIAMETER (INCHES)	PIPE VOLUME PER 18 FEET (GAL)	5-GRAM TABLETS PER PIPE SECTION	HYPOCHLORITE GRANULES 500 FEET PER 18 FEET	MAXIMUM FILL RATE (GPM)
4	35	1	1.7	0.2
6	53	1	3.8	0.4
8	70	2	6.7	0.7
12	141	6	13.4	3.50
16	141	6	27	600

- NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHLORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW WATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
- THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSE OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TESTING IS COMPLETED. IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.
- PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE BEYOND THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FLOW VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.
- AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24) WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ON-SITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PREVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.
- SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.
- ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

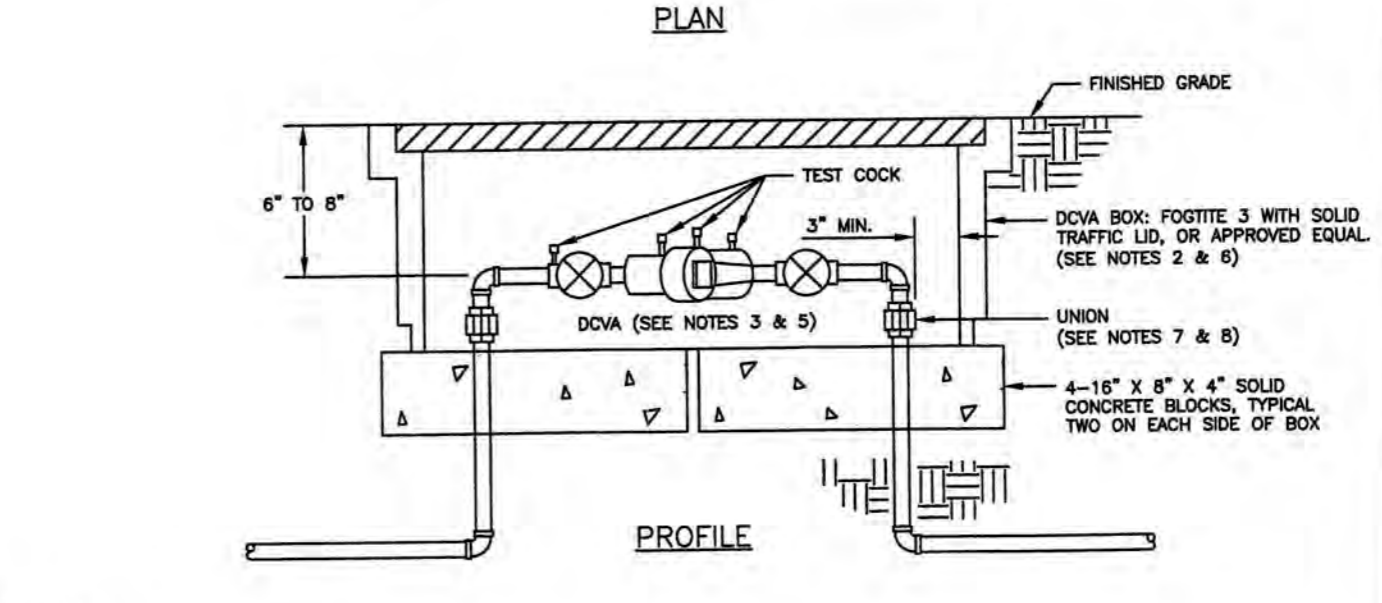
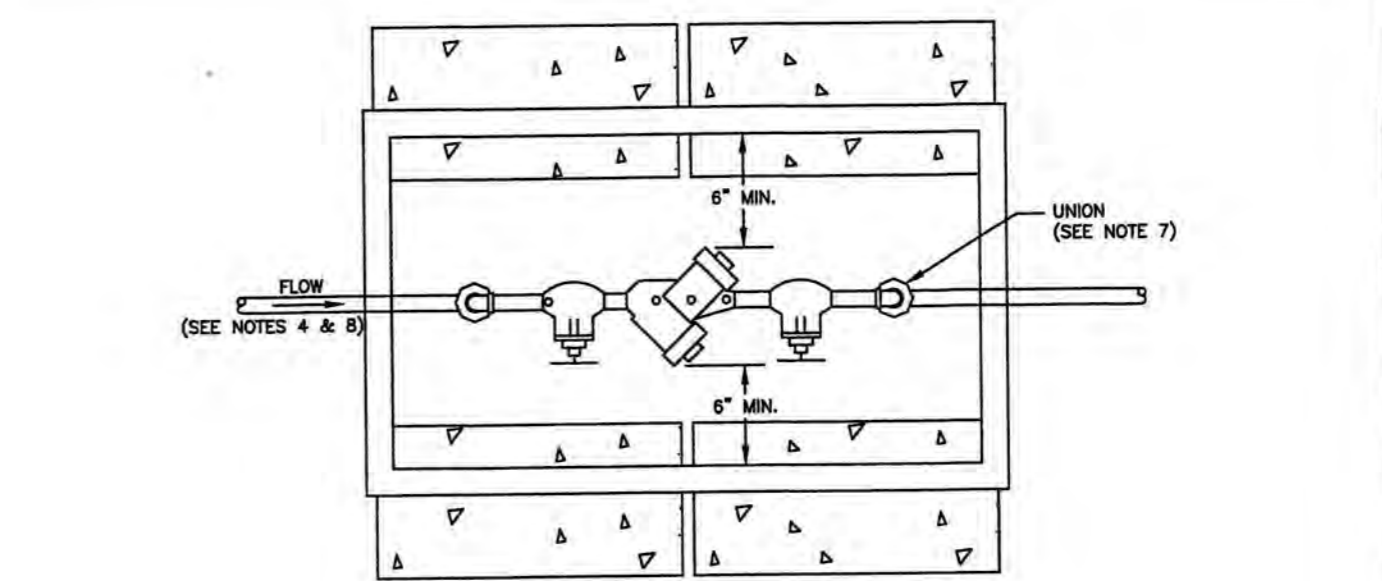
2412 INTER AVE
A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON



CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
DATE: 2/15/2019
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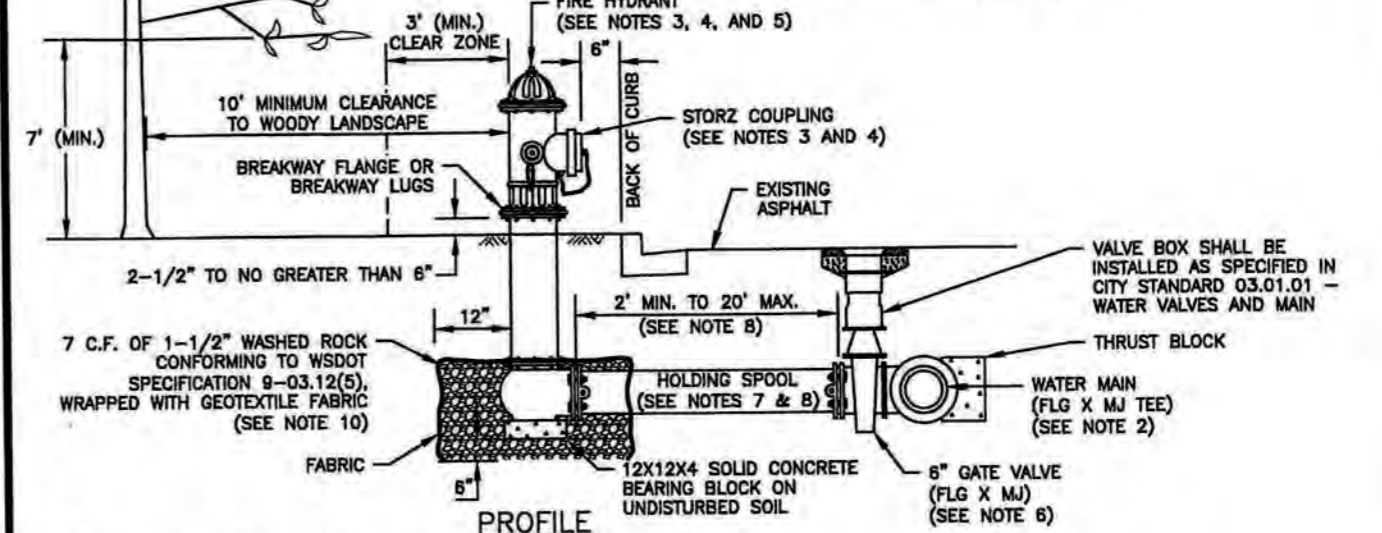
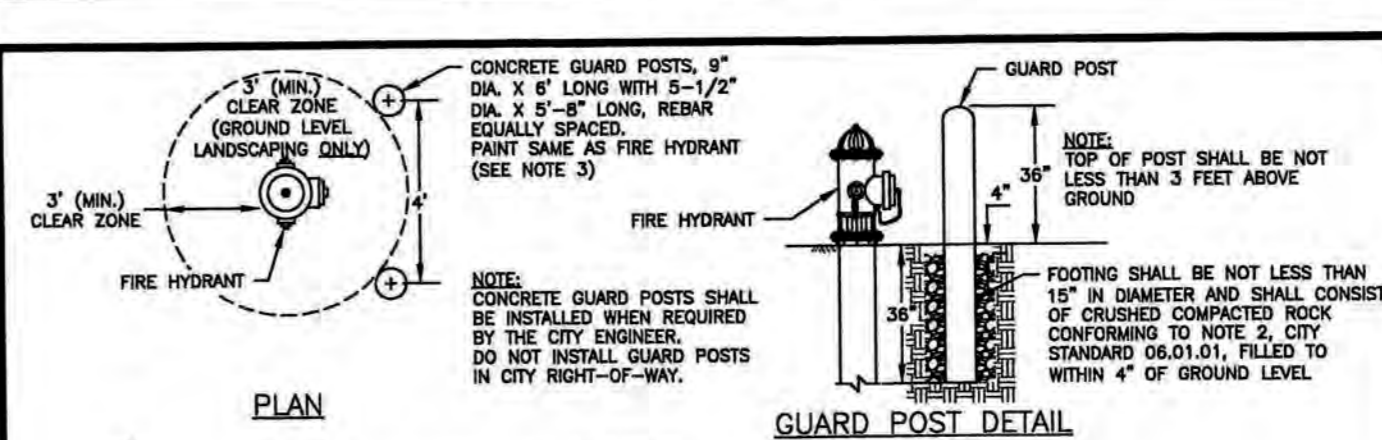
GENERAL NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
- MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
- CATCH BASIN TYPE 1 SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CATCH BASIN TYPE 2 SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "GRATES TO STREAM"; SOLID CAST BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. 5860 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. 5860 OR EQUAL).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
 - THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
- PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
- CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT BE LESS THAN 3.0 FEET.
- DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 8-05.24(1), 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F7278 AND AASHTO M330, TYPE S, OR TYPE D, 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3-FEET.
- TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.



- NOTES:**
- BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE. LATEST EDITION.
 - THE DOWA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98744.
 - DOWA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
 - DOWA SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF WATER METER. WHEN IRRIGATION SYSTEM IS CONNECTED OFF DOMESTIC WATER LINE, IRRIGATION DOWA SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF THE BRANCH CONNECTION.
 - DOWA SHALL BE SIZED EQUAL OR COMPARABLE TO METER SIZE.
 - METER BOX SHALL BE LARGE ENOUGH TO ALLOW THE MINIMUM SETBACKS ILLUSTRATED ABOVE. METER BOX LID SHALL BE A TRAFFIC LID WITH A H-20 LOADING.
 - DIELECTRIC UNIONS MUST BE USED TO SEPARATE DISSIMILAR MATERIALS.
 - USE ONLY BRASS OR COPPER BETWEEN THE METER AND THE UNION ON THE CUSTOMER'S SIDE OF THE DOWA.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
DATE: 2/15/2019
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- NOTES:**
- ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
 - WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
 - THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, RUST-OLEUM SAFETY YELLOW #7543 (TWO COATS) OR AN APPROVED EQUAL. THE STORM FITTING SHALL NOT BE PAINTED.
 - FIRE HYDRANTS SHALL HAVE TWO 2-1/2" HOSE PORTS (NATIONAL STANDARD THREAD) WITH CAPS AND CHAINS AND ONE 4" PUMPER PORT (88 TACOMA STEAMER PORT THREAD) WITH A 5" STORM COUPLING AND BLIND CAP INSTALLED ON THE STEAMER PORT. (STEAMER PORT SHALL FACE THE STREET). 1-1/4" PENTAGONAL OPERATING NUT (COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
 - THE HOLDING SPOOL SHALL BE A MECHANICAL-JOINT (M.J.) HOLDING SPOOL, WITH THE USE OF MEGA-LUG CONNECTORS OR APPROVED EQUAL, WITH CLASS 52 DUCTILE IRON PIPE.
 - GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE NON-RODDED BRONZE-MOUNTED, NON-RETURN STEM, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT BY FLANGED. VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
 - IF DISTANCE BETWEEN WATER MAIN AND FIRE HYDRANT IS GREATER THAN 17 FEET, RESTRAINED JOINTS ARE REQUIRED ON ANY ADDITIONAL JOINTS. THE MAXIMUM 8-INCH HYDRANT RUN ALLOWED IS 20 FEET. ANY PROPOSED HYDRANT RUN EXCEEDING 20 FEET IN LENGTH SHALL BE 8-INCHES IN DIAMETER. NO WOODSY FIRE HYDRANT FLOW MODEL. ANY HYDRANT RUN EXCEEDING 50 FEET IN LENGTH SHALL BE 8-INCHES IN DIAMETER.
 - FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A BUILDING OR STRUCTURE.
 - THE CONTRACTOR SHALL PLACE A 2 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA, ENDS TO OVERLAP.
 - A FLOURESCENT ORANGE BUN MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.
 - A MINIMUM THREE FOOT (3') RADIUS UNOBSTRUCTED CLEAR ZONE (WORK AREA) SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. ADDITIONALLY, ENGINEERED HYDRANT FIRE FLOW MODEL. ANY HYDRANT RUN EXCEEDING 50 FEET IN LENGTH SHALL BE 8-INCHES IN DIAMETER. HYDRANTS SHALL HAVE A MAINTAINED VERTICAL CLEARANCE OF SEVEN (7') FEET ABOVE FINISHED GRADE OF THE FIRE HYDRANT.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
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 - CAD FILE WILL BE PROVIDED BY ENGINEER TO AID IN ESTABLISHING HORIZONTAL CONTROL.
 - SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS.

APPROVED
BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: 07/17/2025
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic



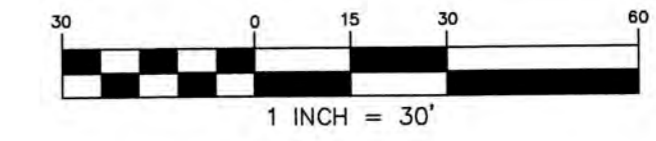
C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING
429 - 28TH ST. NE, SUITE D
PUYALLUP, WA 98727
PH: (253) 848-4282
ceservices@cesnwinc.com

2412 INTER AVE
CONSTRUCTION NOTES AND DETAILS
THROUGH TERRA

Project: _____
Client: rich@through-terra.com
Designed: DPS
Drawn: MFB
Checked: CAD
Scale: 1"=50'
Job No.: 6/17/25
Sheet No.: 20083
C10
10 of 20 Sheets

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2412 INTER AVE
 A PORTION OF NW1/4 OF THE SE1/4 OF SEC. 26, T20N, R04E
 WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

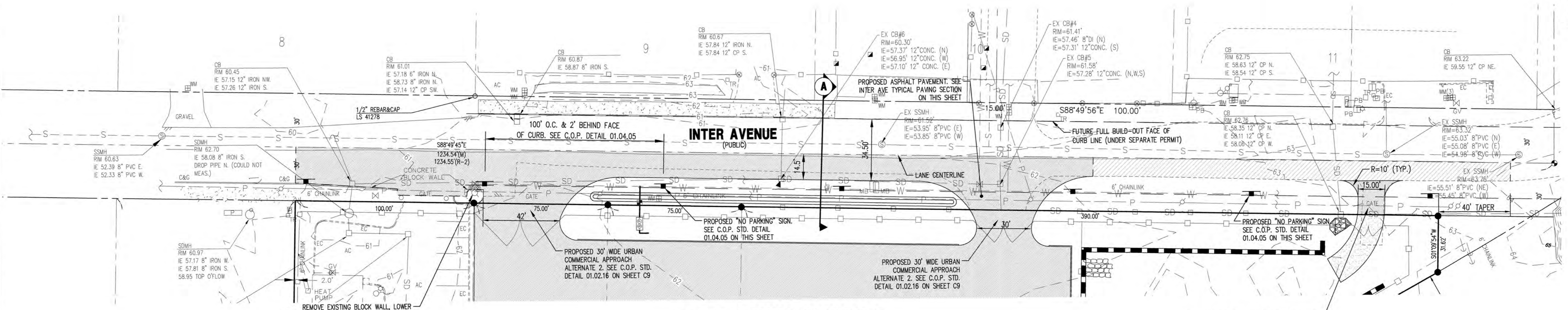


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BY: *[Signature]*
 CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING

DATE: 07/17/2025

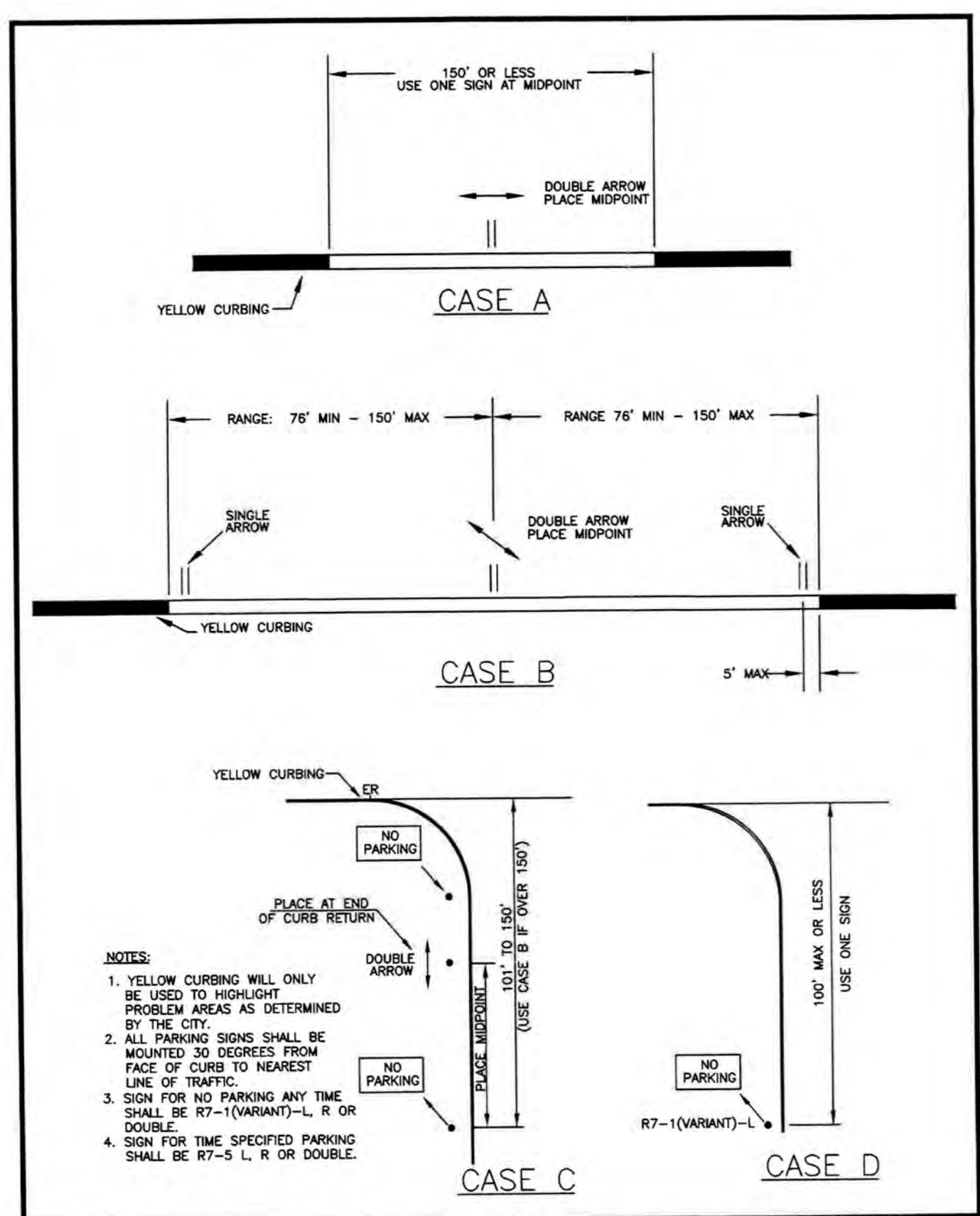
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INTER AVENUE SIGNAGE
 1"=30'

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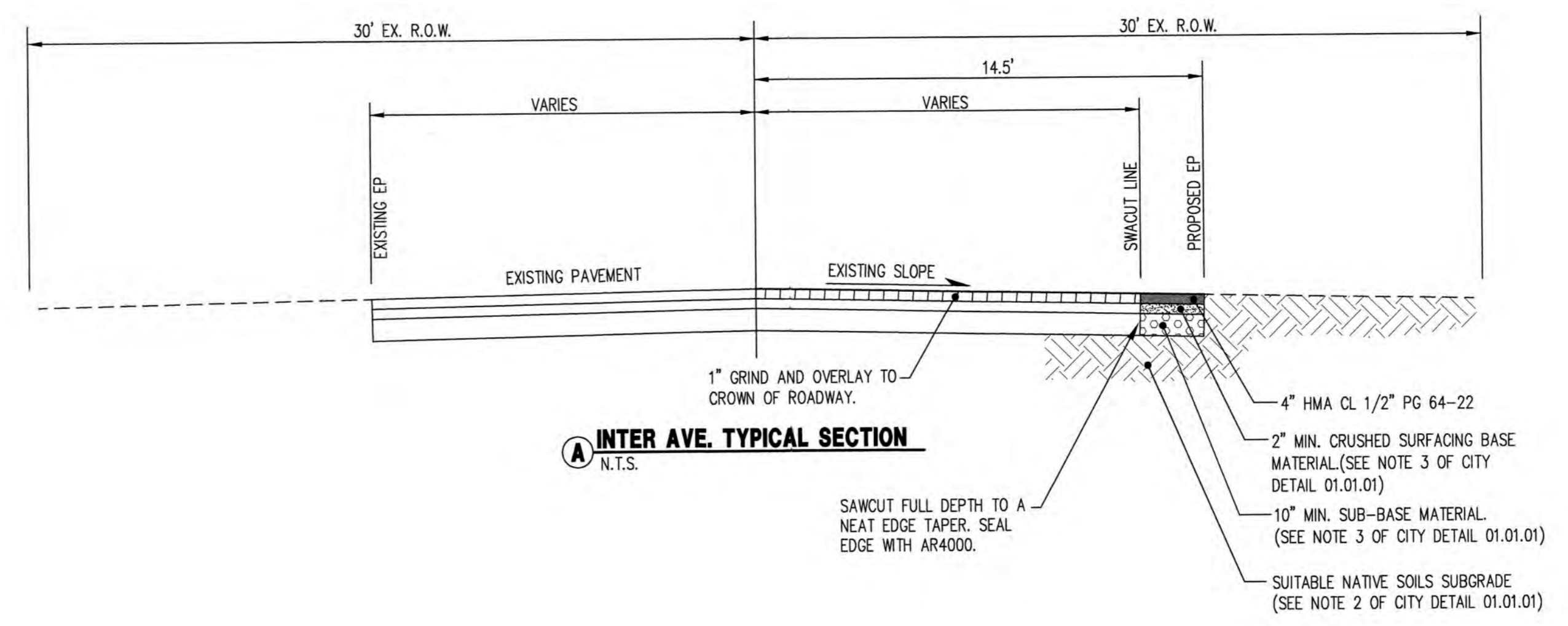
Building	Planning
Engineering	Public Works
Fire	Traffic



CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STANDARD LOCATION OF RESTRICTED PARKING SIGNS

DESIGNED BY TIM FERRELL/VERDONA	CHECKED BY LINDA LEON	APPROVED BY COLLEEN HARRIS	REVISED BY NONE	CITY STANDARD
PROJECT NAME PUEBLO COMMUNITY STREETS CITY 200801 - 010401 0402 0403	DATE APPROVED 06/20/2025	DATE REVISED NONE	SCALE AS SHOWN	01.04.05



NOTES:

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- SEE SEPARATE LANDSCAPE PLANS FOR LANDSCAPING REQUIREMENTS

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Project:	2412 INTER AVE SIGNAGE PLAN
Client:	THROUGH TERRA
Designed:	DPS
Drawn:	MFB
Checked:	CAD
Scale:	1"=50'
Date:	6/17/25
Job No.:	20083
Sheet No.:	C11
11 of 20 Sheets	

C.E.S. NW INC.
 CIVIL ENGINEERING & SURVEYING

DANIEL PAUL SMITH
 CIVIL ENGINEER
 PROFESSIONAL LICENSE NO. 49023
 6-17-20

PH: (253) 848-4282
 cceservices@cesnwinc.com
 429 - 29TH ST. NE, SUITE D
 PUYALLUP, WA 98072

2412 INTER AVE
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 WILLAMETTE MERIDIAN, PIERCE COUNTY, WASHINGTON

**City of Puyallup
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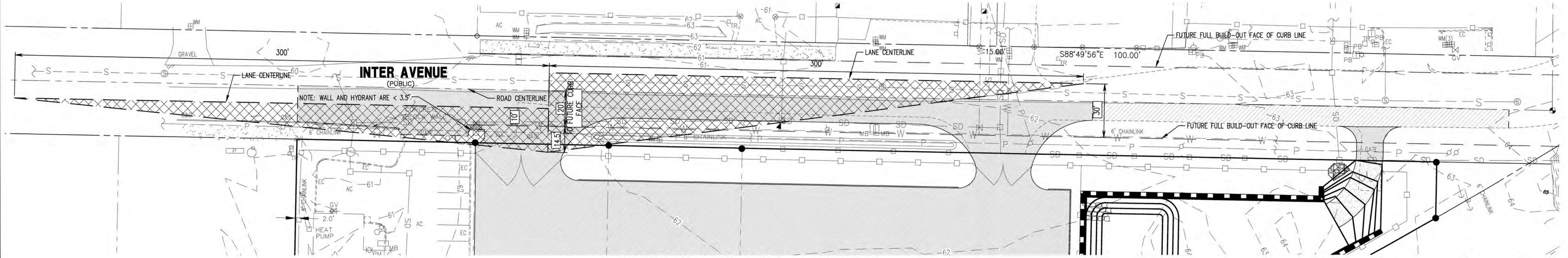
Building	Planning
Engineering	Public Works
Fire	Traffic

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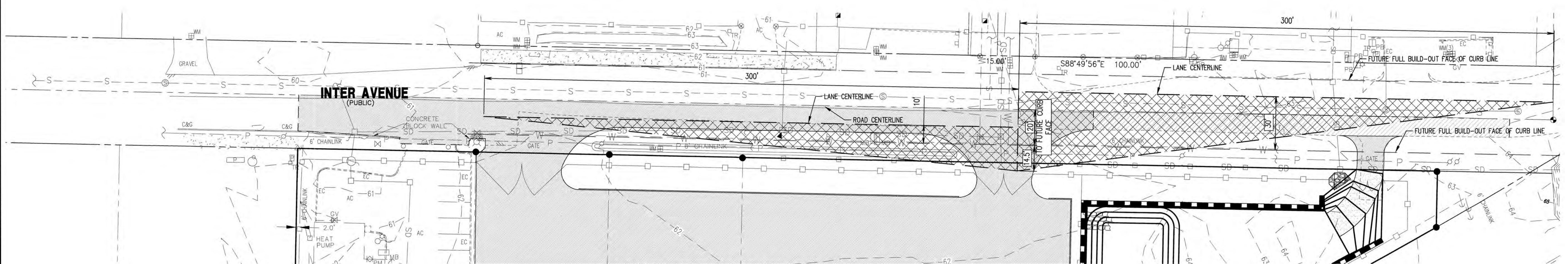
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 BY *[Signature]*
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 DEVELOPMENT ENGINEERING
 07/17/2025
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No.	Revision:	Date:



WEST DRIVEWAY SIGHT DISTANCE
 1"=30'



EAST DRIVEWAY SIGHT DISTANCE
 1"=30'

C.E.S. NW INC.
 CIVIL ENGINEERING & SURVEYING
 425 - 29TH ST. NE, SUITE D
 PUYALLUP, WA 98421
 PH: (253) 848-4888
 ceservices@cesnwinc.com

**2412 INTER AVE
 SIGHT DISTANCE PLAN**
 THROUGH TERRA

Project: rich@thorough-terra.com
 Client: rich@thorough-terra.com

Designed: DPS
 Drawn: MFB
 Checked: CAD

Scale: 1"=50'
 Date: 6/17/25
 Job No.: 20083

Sheet No.: **SD**
 12 of 20 Sheets