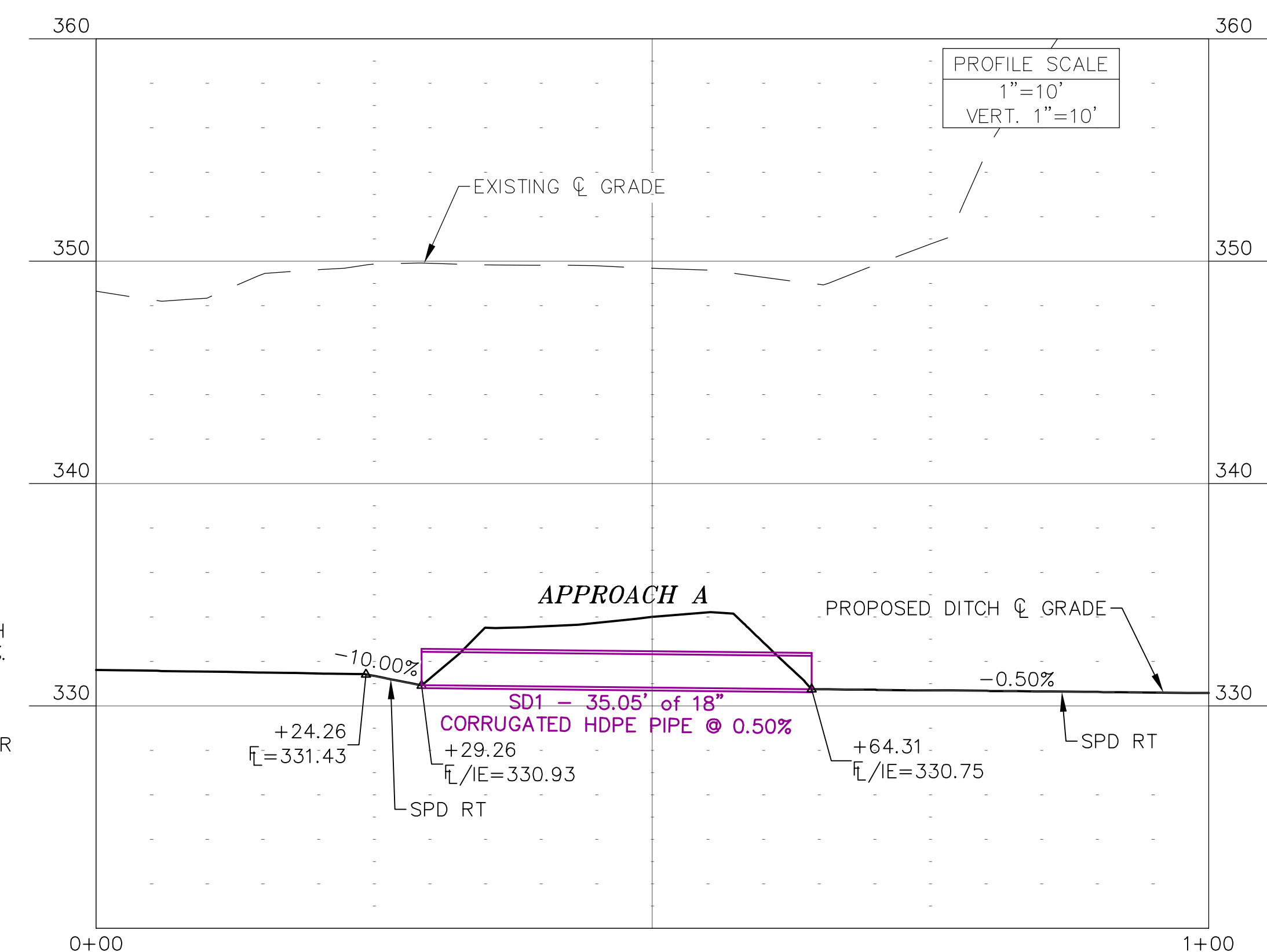
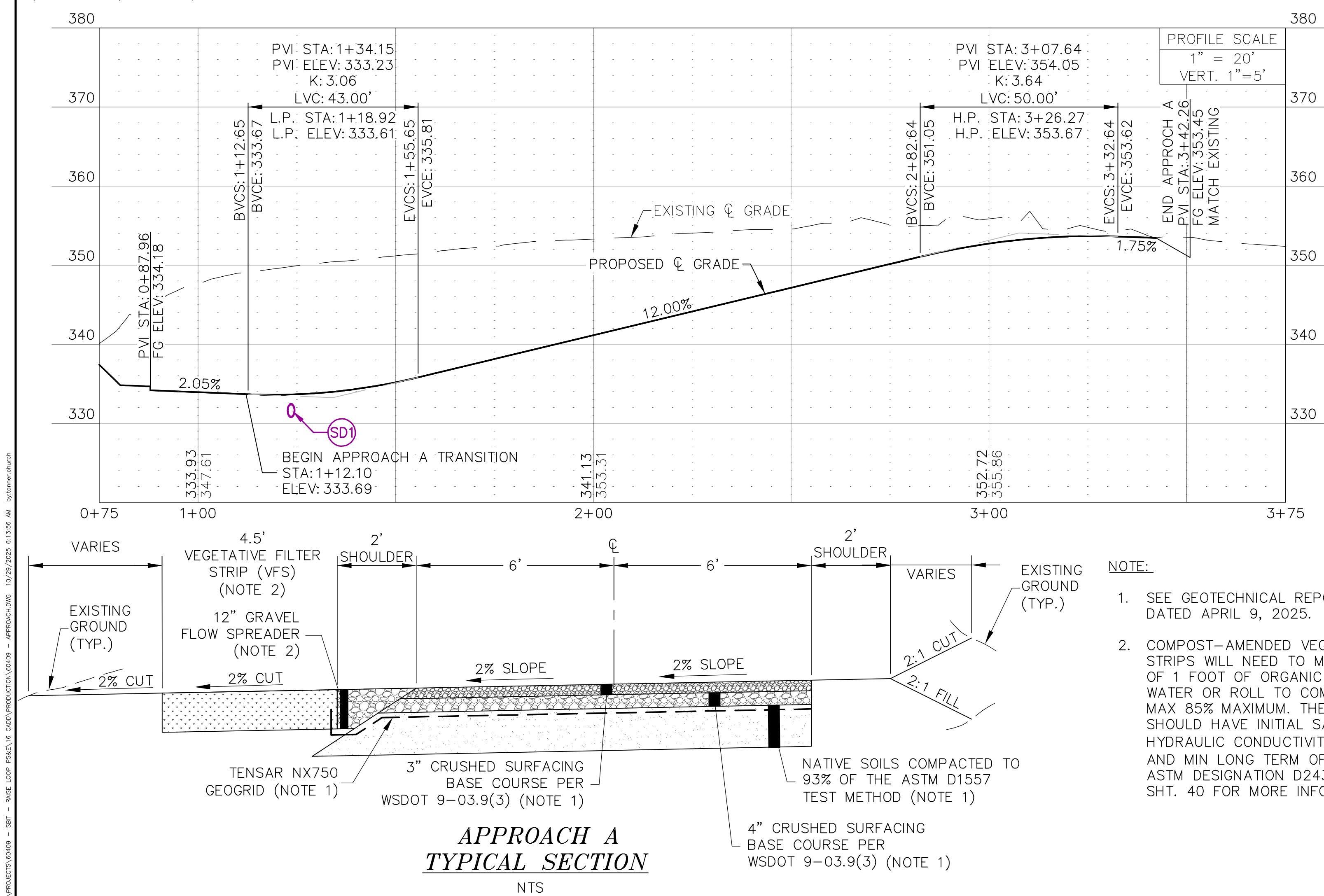
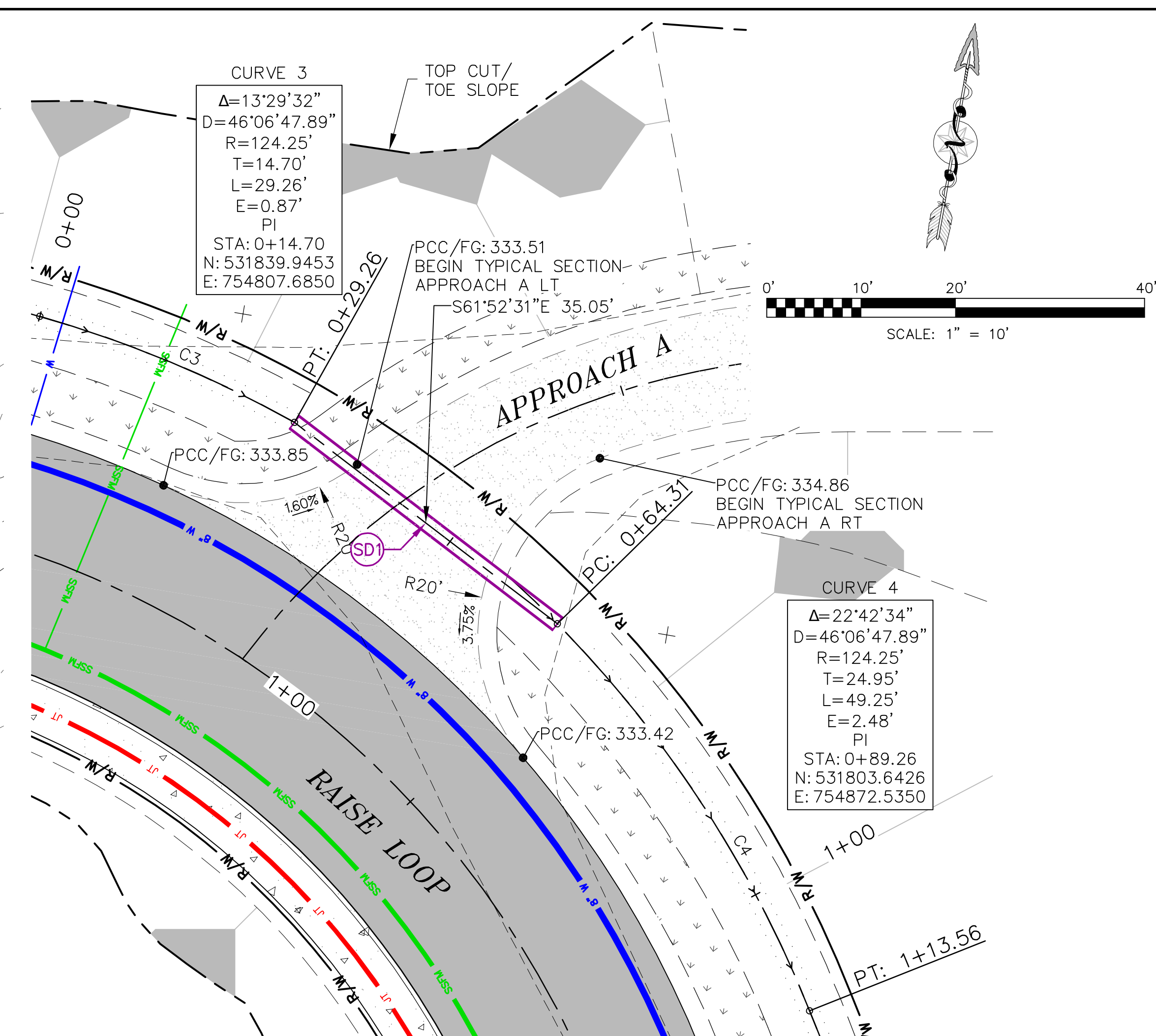
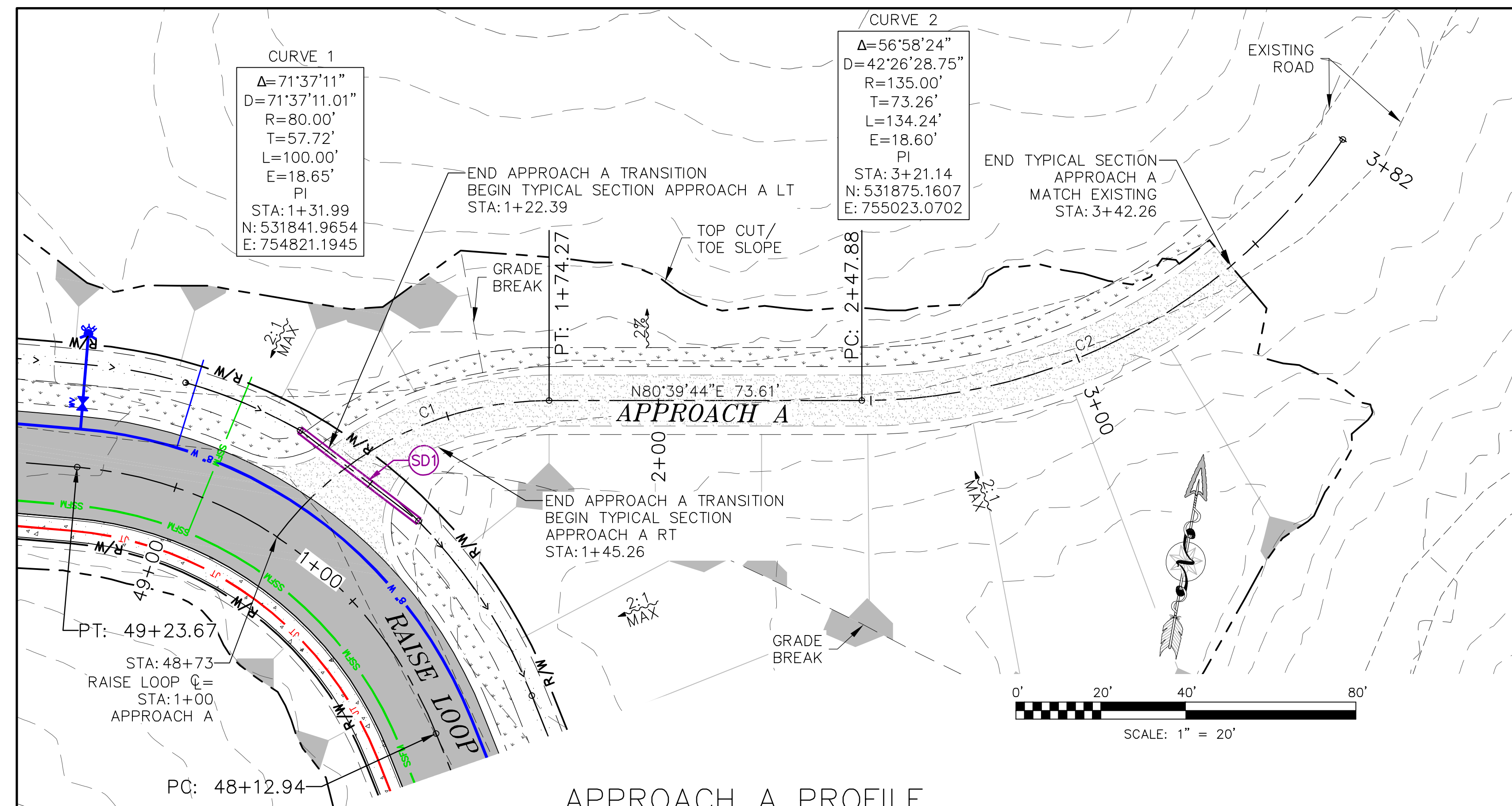




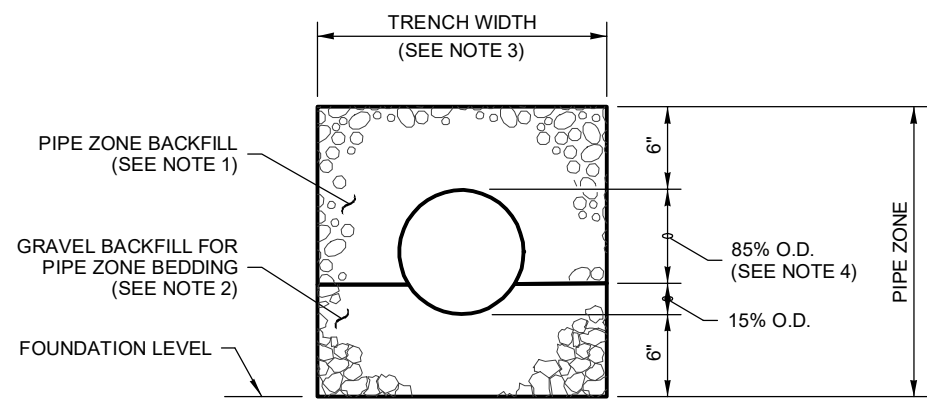
RAISE LOOP ROAD
SHOALWATER BAY TRIBE
TOKELAND, WA
APPROACH A DETAILS



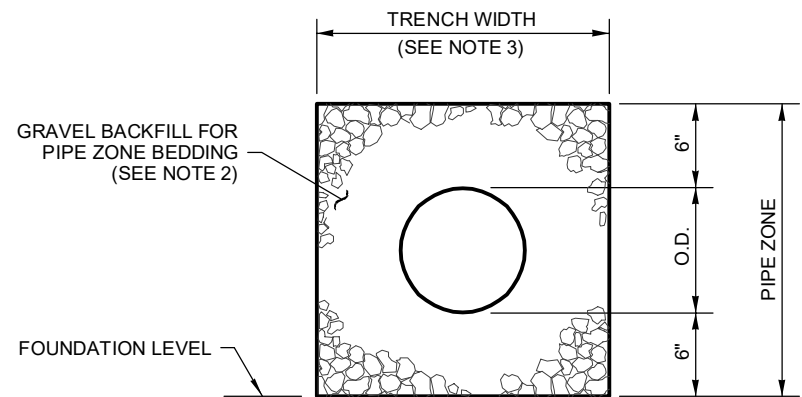
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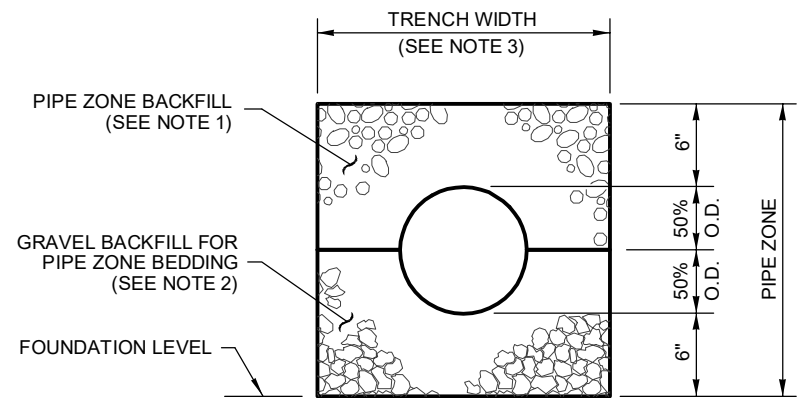
DRAWN BY: FERN LODELL



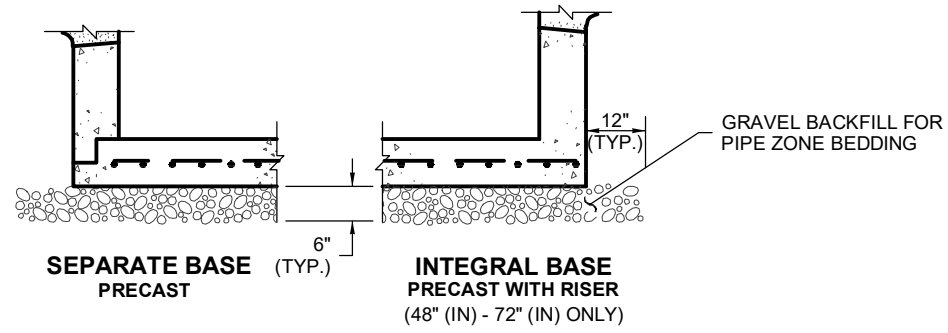
CONCRETE AND DUCTILE IRON PIPE



THERMOPLASTIC PIPE

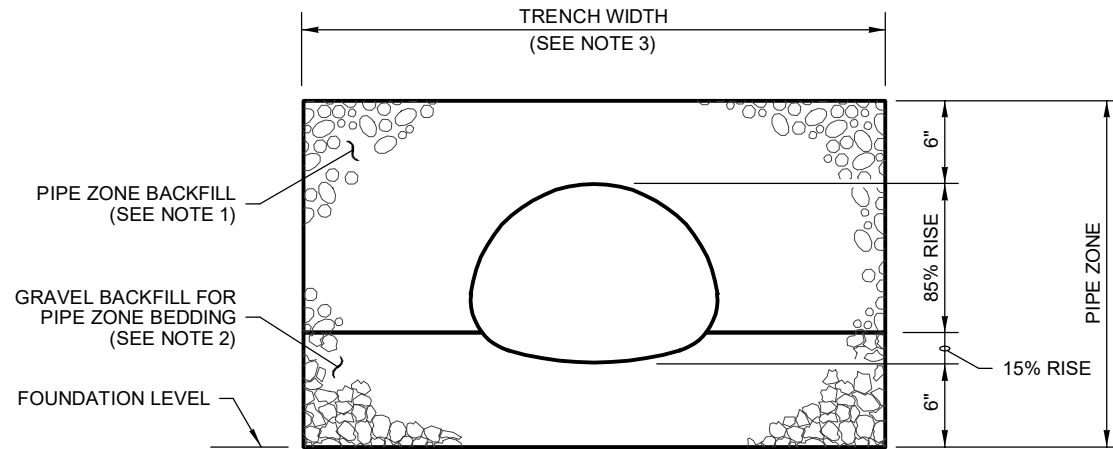


METAL AND STEEL RIB
REINFORCED POLYETHYLENE PIPE



TYPICAL CONDITION FOR DRAINAGE STRUCTURE

THIS DETAIL APPLIES TO STANDARD PLANS B-5.20, B-5.40, B-5.60, B-10.20, B-10.40, B-15.20, B-15.40, B-15.60, B-25.20, B-25.60, B-35.20 AND B-35.40.



PIPE ARCHES

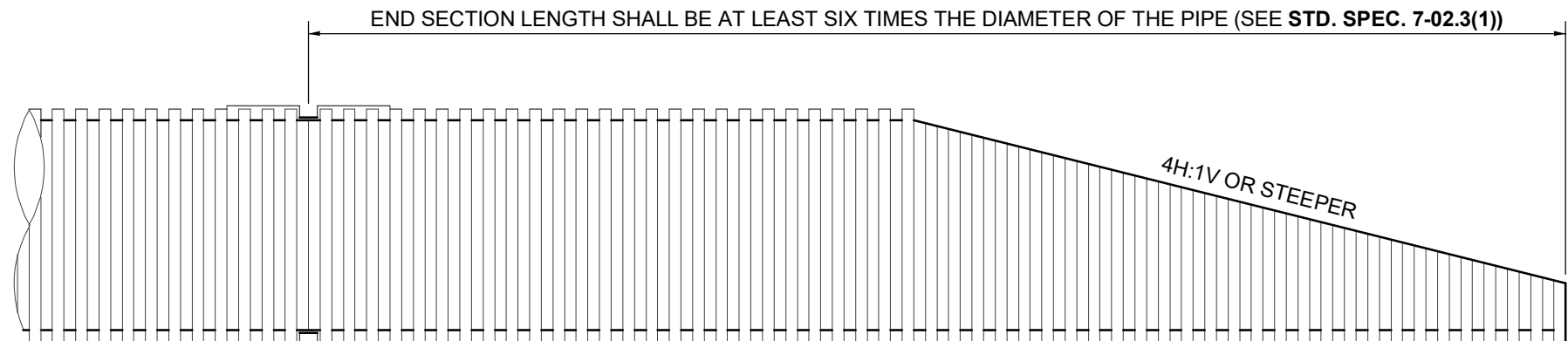
CLEARANCE BETWEEN PIPES FOR MULTIPLE INSTALLATIONS		
PIPE	SIZE	MINIMUM DISTANCE BETWEEN BARRELS
CIRCULAR PIPE (DIAMETER)	UP TO 48"	24"
METAL PIPE ARCH (SPAN)	48" AND LARGER	DIAMETER/2 OR 36" WHICH EVER IS LESS

**PIPE ZONE BEDDING
AND BACKFILL**
STANDARD PLAN B-55.20-03

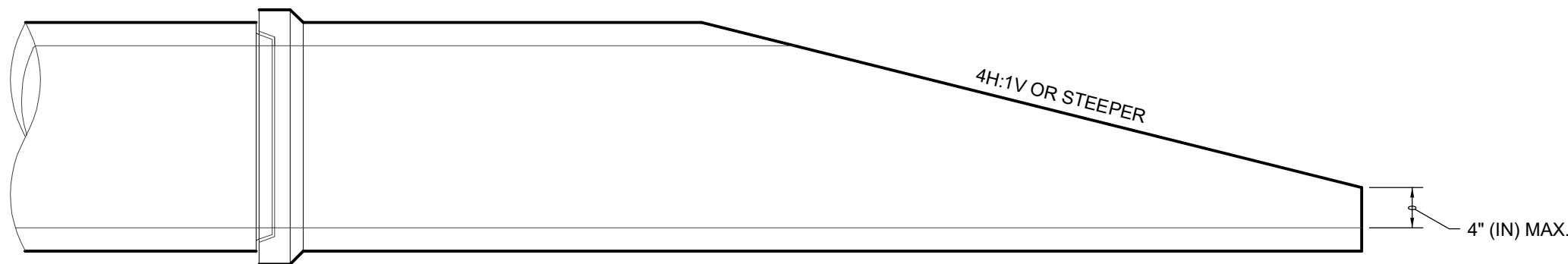
SHEET 1 OF 1 SHEET
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Aug 17, 2021
STATE DESIGN ENGINEER
Washington State Department of Transportation

NOTES

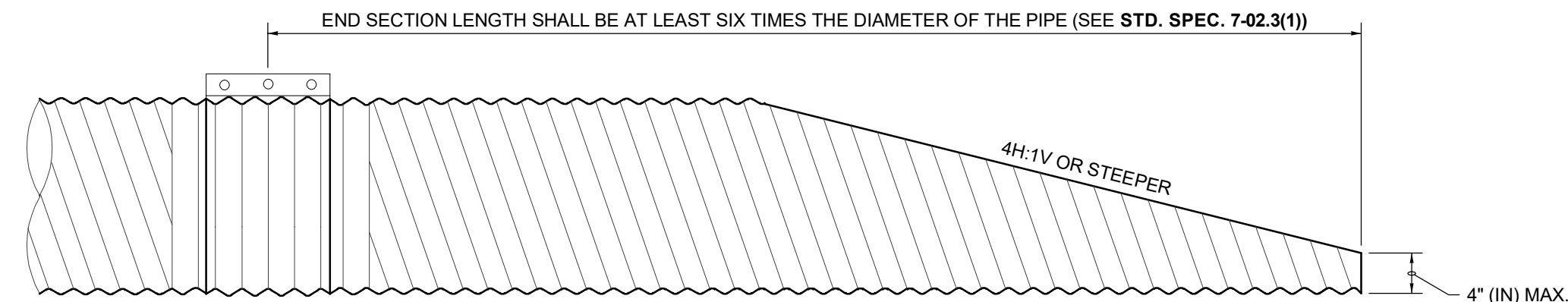
- See **Standard Specifications Section 7-08.3(3)** for Pipe Zone Backfill.
- See **Standard Specifications Section 9-03.12(3)** for Gravel Backfill for Pipe Zone Bedding.
- See **Standard Specifications Section 2-09.4** for Measurement of Trench Width.
- For sanitary sewer installation, concrete pipe shall be imbedded to spring line.



THERMOPLASTIC PIPE



CONCRETE PIPE



METAL PIPE

NOTES

- The culvert ends shall be mitered to match the embankment or ditch slope and shall not be mitered flatter than 4H : 1V. When slopes are between 4H : 1 V and 6H : 1 V, shape the slope in the vicinity of the culvert end to ensure that no part of the culvert protrudes more than 4" (in) above the ground line.
- Field cutting of culvert ends is permitted when approved by the Engineer. All field-cut culvert pipe shall be treated with treatment as shown in the Standard Specifications or General Special Provisions.

FOR CULVERTS 30" (IN)
DIAMETER OR LESS

MITERED END SECTIONS
STANDARD PLAN B-70.20-01

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Mar 15, 2022
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NOTES

- Contractor to provide blocking adequate to withstand full test pressure.
- Divide thrust by safe bearing load to determine required area (in square feet) of concrete to distribute load.
- Areas to be adjusted for other pressure conditions.
- Provide two 1" (in) minimum diameter rods on valves up through 10" (in) diameter. Valves larger than 10" (in) require special tie rod design.

SIZE	TEST PRESSURE (PSI)	THRUST AT FITTINGS IN POUNDS				
		A TEE AND DEAD ENDS	B 90° BEND	C 45° BEND	D 22.5° BEND	E 11.25° BEND
4"	250	3,140	4,440	2,405	1,225	615
6"	250	7,070	9,995	5,410	2,760	1,385
8"	250	12,565	17,770	9,620	4,905	2,465
10"	250	19,635	27,770	15,030	7,660	3,850
12"	250	28,275	39,985	21,640	11,030	5,545
14"	250	38,485	54,425	29,455	15,015	7,545
16"	250	50,265	71,085	38,470	19,615	9,855

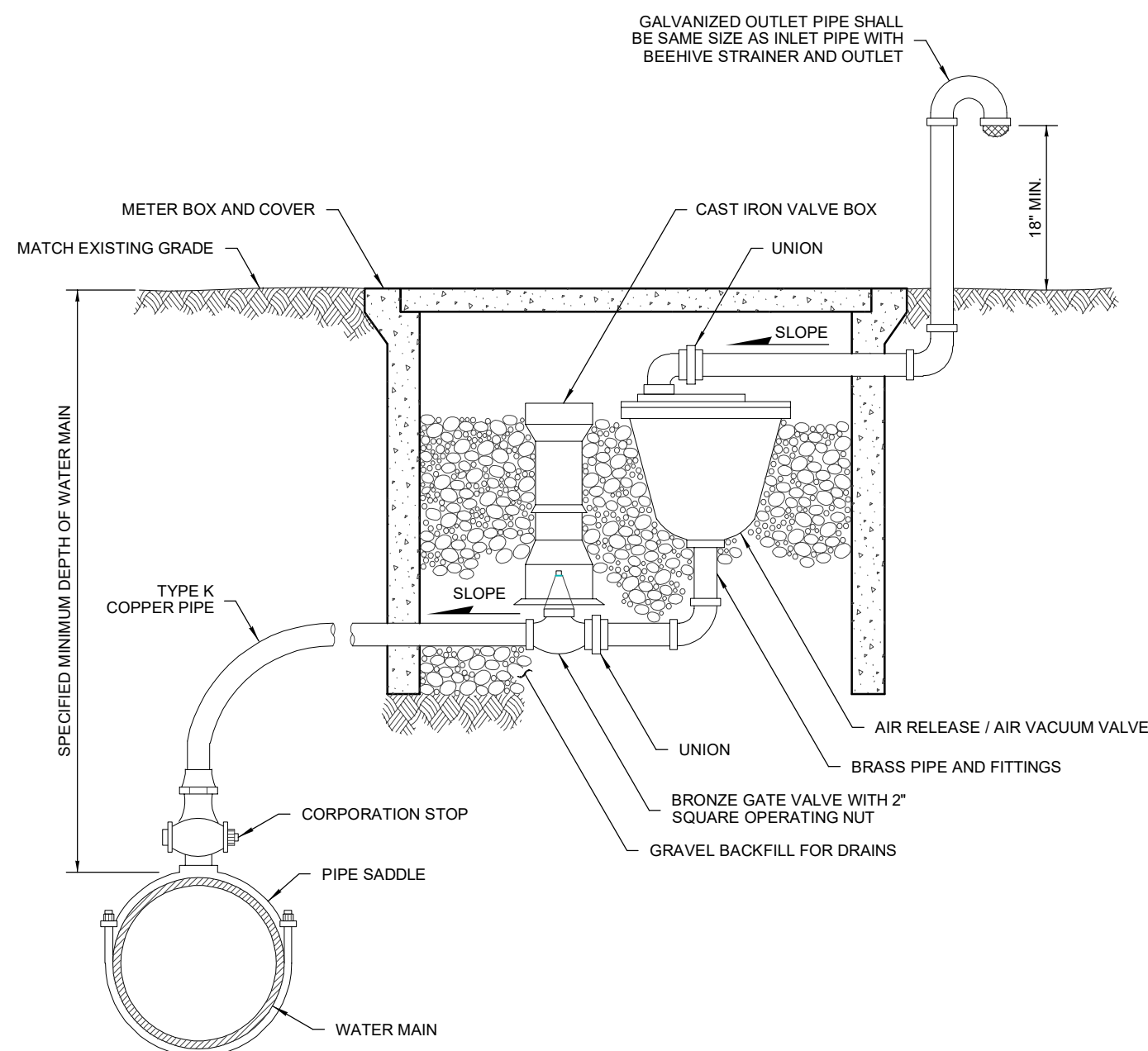
SOIL TYPE	SAFE BEARING LOAD (PSF)
MUCK, PEAT, ETC.	0
SOFT CLAY	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

CONCRETE THRUST BLOCK
STANDARD PLAN B-90.40-01

SHEET 1 OF 1 SHEET
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Jan 26, 2017
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Washington State Department of Transportation

NOTES

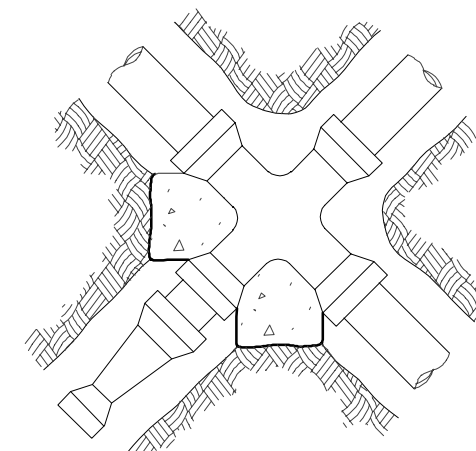
- The size of the combination air release / air vacuum valve shall be specified in the Contract. The piping and valves shall be the same size as the combination air release / air vacuum valve.
- Locate at the high point of the main, tap top of main.



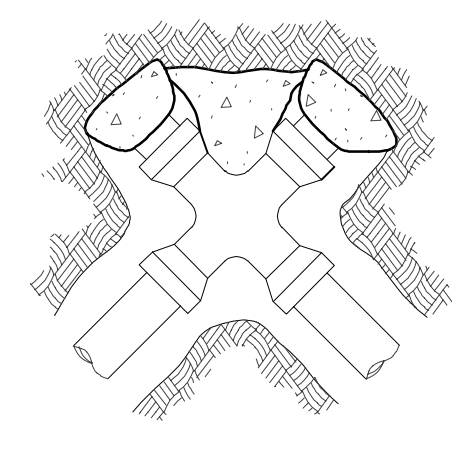
**COMBINATION
AIR RELEASE / AIR VACUUM
VALVE ASSEMBLY**
STANDARD PLAN B-90.30-00

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Harold J. Peterfeso 06-08-06
STATE DESIGN ENGINEER
Washington State Department of Transportation

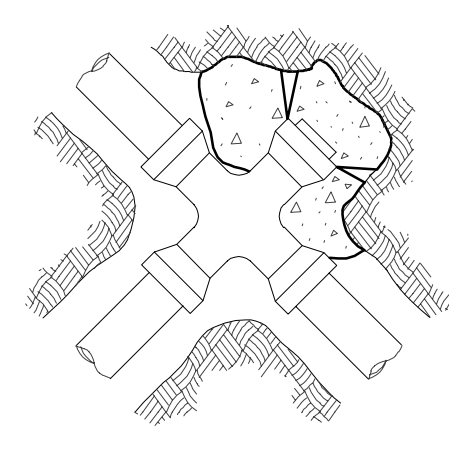
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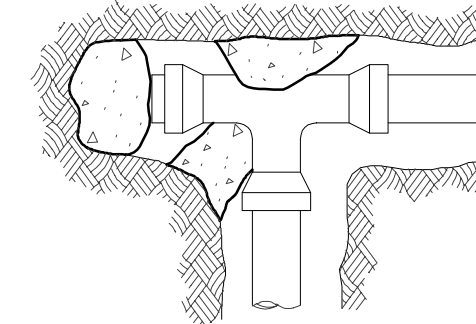
PLAN VIEW
UNBALANCED CROSS
(USE COLUMN A)



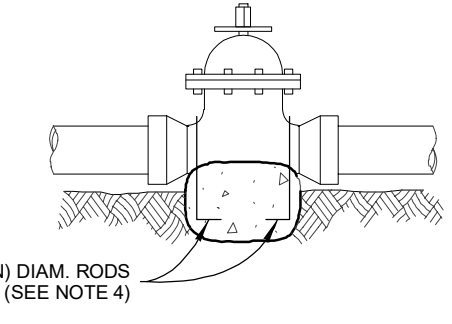
PLAN VIEW
PLUGGED CROSS
(USE COLUMN B)



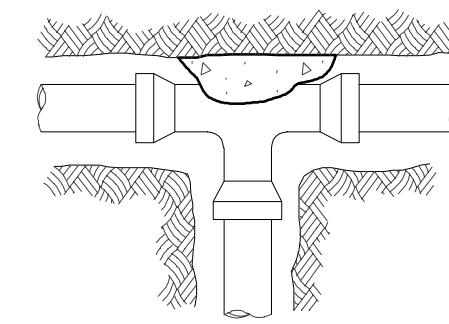
PLAN VIEW
PLUGGED CROSS
(USE COLUMN A)



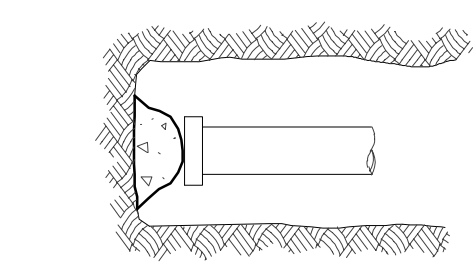
PLAN VIEW
PLUGGED TEE
(USE COLUMN B)



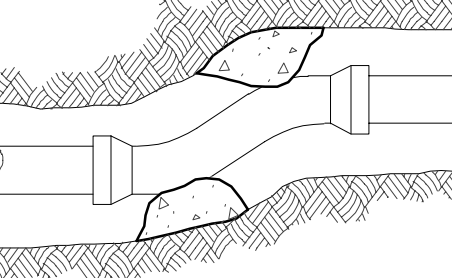
PROFILE VIEW
VALVE
(USE COLUMN A)



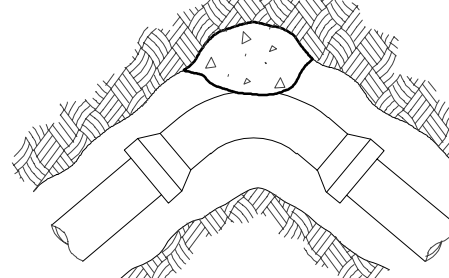
PLAN VIEW
TEE



PLAN VIEW
DEAD END



PLAN VIEW
OFFSET
(USE COLUMNS B - E)



PLAN VIEW
BEND

PRELIMINARY ONLY
RAISE LOOP ROAD
SHOALWATER BAY INDIAN TRIBE
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WSDOT STANDARD PLANS

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PROJ. 60409
SHT. 35

BLOCKING FOR 11.25° OR 22.5° VERTICAL BENDS

BLOCKING FOR 45° VERTICAL BENDS

Steel tie rods to be heavily coated with asphalt after installation.

DIMENSION TABLE						
PIPE DIAM.	TEST PRESSURE (PSI)	BEND ANGLE	CONCRETE VOLUME (CU FT)	TIE ROD DIAM.	TIE ROD EMBEDMENT	
4"	250	11.25°	6	1.8	5/8"	17"
		22.5°	12	2.3		
		45°	22	2.8		
6"	250	11.25°	14	2.4	5/8"	17"
		22.5°	27	3.0		
		45°	50	3.7		
8"	250	11.25°	25	2.9	5/8"	17"
		22.5°	48	3.6		
		45°	89	4.5		
10"	250	11.25°	38	3.4	5/8"	17"
		22.5°	75	4.2		
		45°	139	5.2		
12"	250	11.25°	55	3.8	5/8"	17"
		22.5°	108	4.8		
		45°	200	5.8		
14"	250	11.25°	75	4.2	5/8"	17"
		22.5°	147	5.3		
		45°	272	6.5		
16"	250	11.25°	98	4.6	5/8"	17"
		22.5°	192	5.8		
		45°	355	7.1		
					1 1/8"	30"

**CONCRETE THRUST BLOCK
FOR CONVEX
VERTICAL BENDS
STANDARD PLAN B-90.50-00**

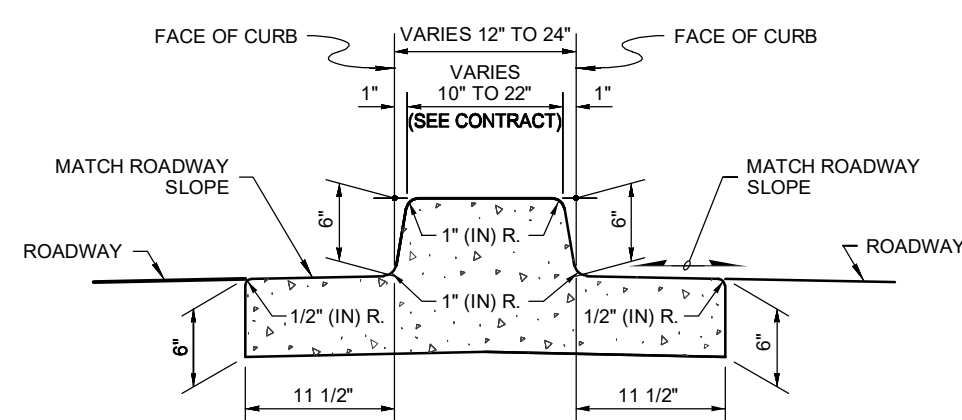
SHEET 1 OF 1 SHEET

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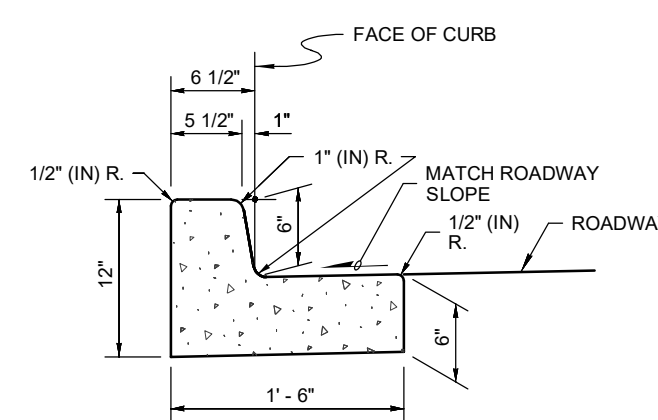
Harold J. Peterfeso **06-08-06**

STATE DESIGN ENGINEER DATE

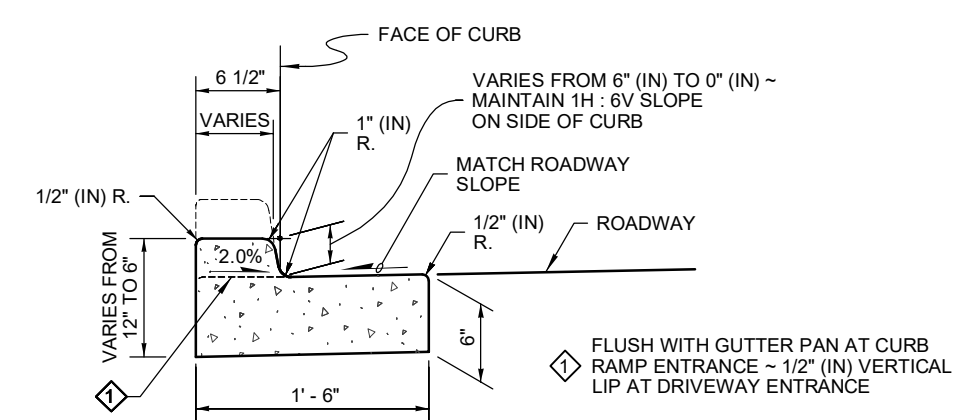
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**DUAL-FACED CEMENT CONCRETE
TRAFFIC CURB AND GUTTER**



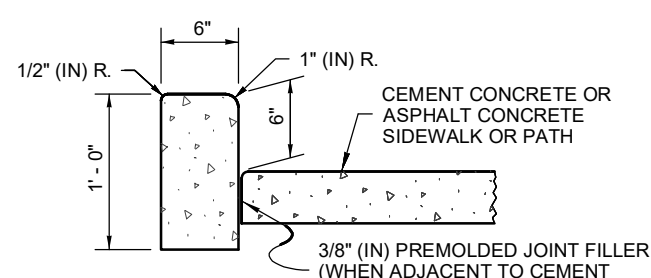
**CEMENT CONCRETE
TRAFFIC CURB AND GUTTER**



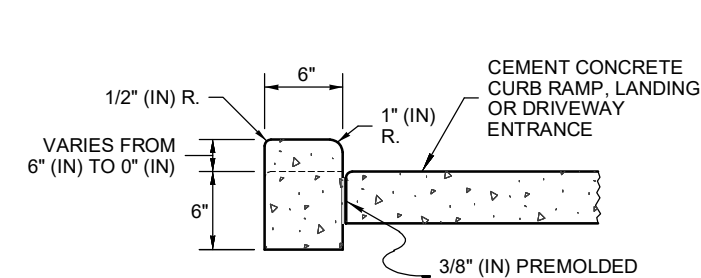
**DEPRESSED CURB AND GUTTER SECTION
AT CURB RAMPS AND
DRIVEWAY ENTRANCES**

NOTE

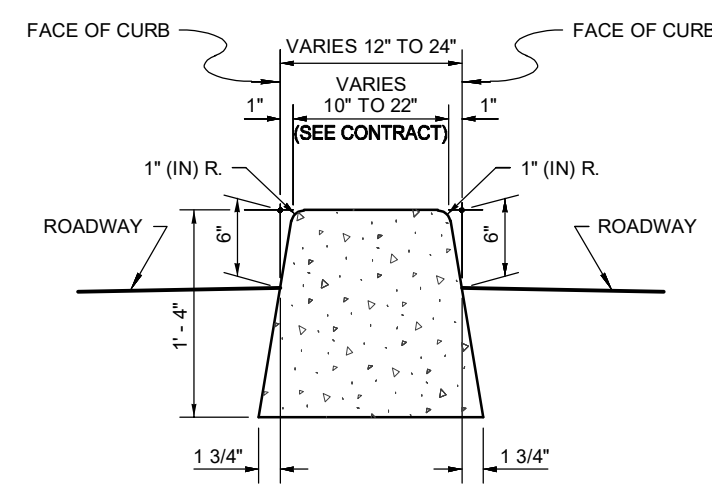
1. See **Standard Plan F-30.10** for Curb Expansion and Contraction Joint spacing. See **Standard Specification, Sections 8-04 and 9-04** for additional requirements.



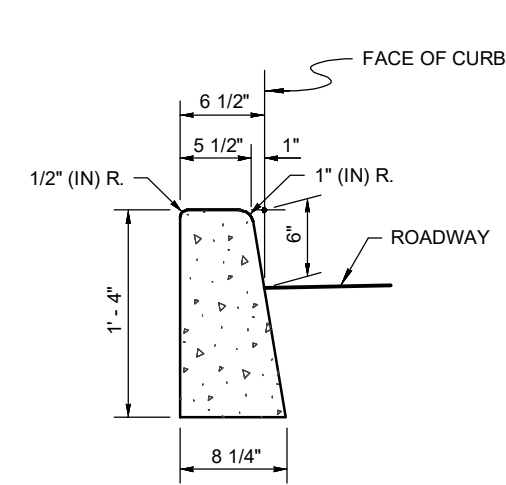
CEMENT CONCRETE PEDESTRIAN CURB



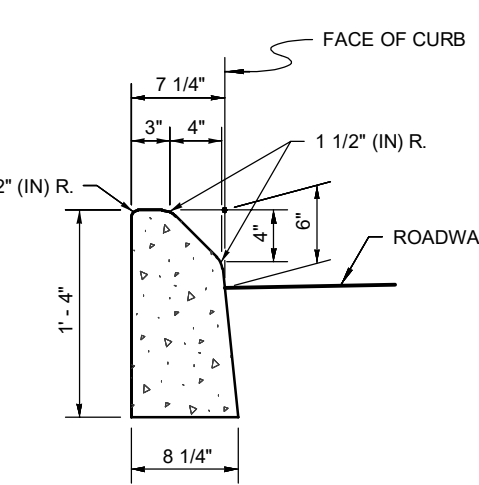
CEMENT CONCRETE PEDESTRIAN CURB
AT CURB RAMPS, LANDINGS,
AND DRIVEWAY ENTRANCES



**DUAL-FACED CEMENT
CONCRETE TRAFFIC CURB**



**CEMENT CONCRETE
TRAFFIC CURB**

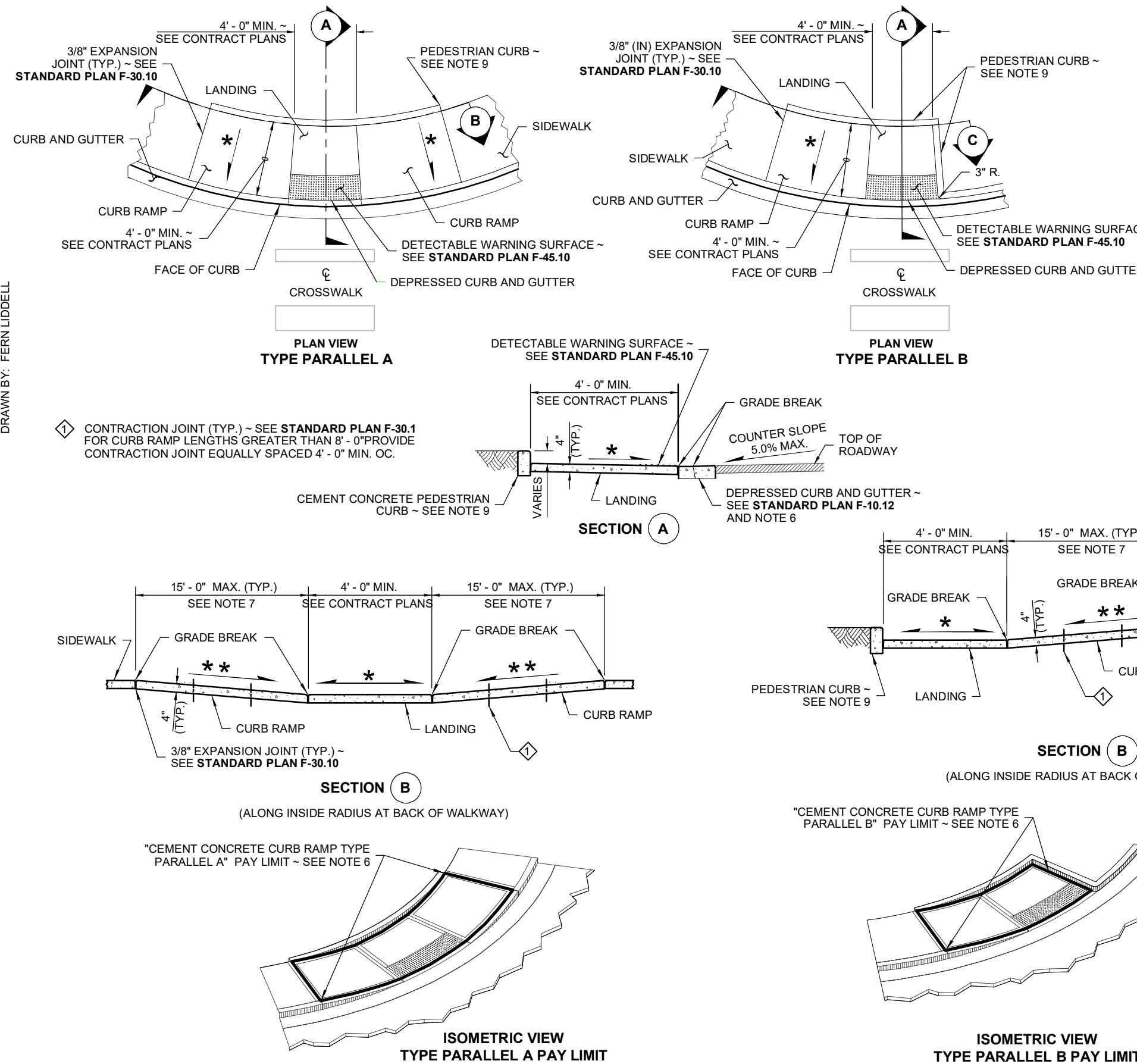


**MOUNTABLE CEMENT
CONCRETE TRAFFIC CURB**

CEMENT CONCRETE CURBS
STANDARD PLAN F-10.12-04

SHEET 1 OF 1 SHEET

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PARALLEL CURB RAMP
STANDARD PLAN F-10.12-04

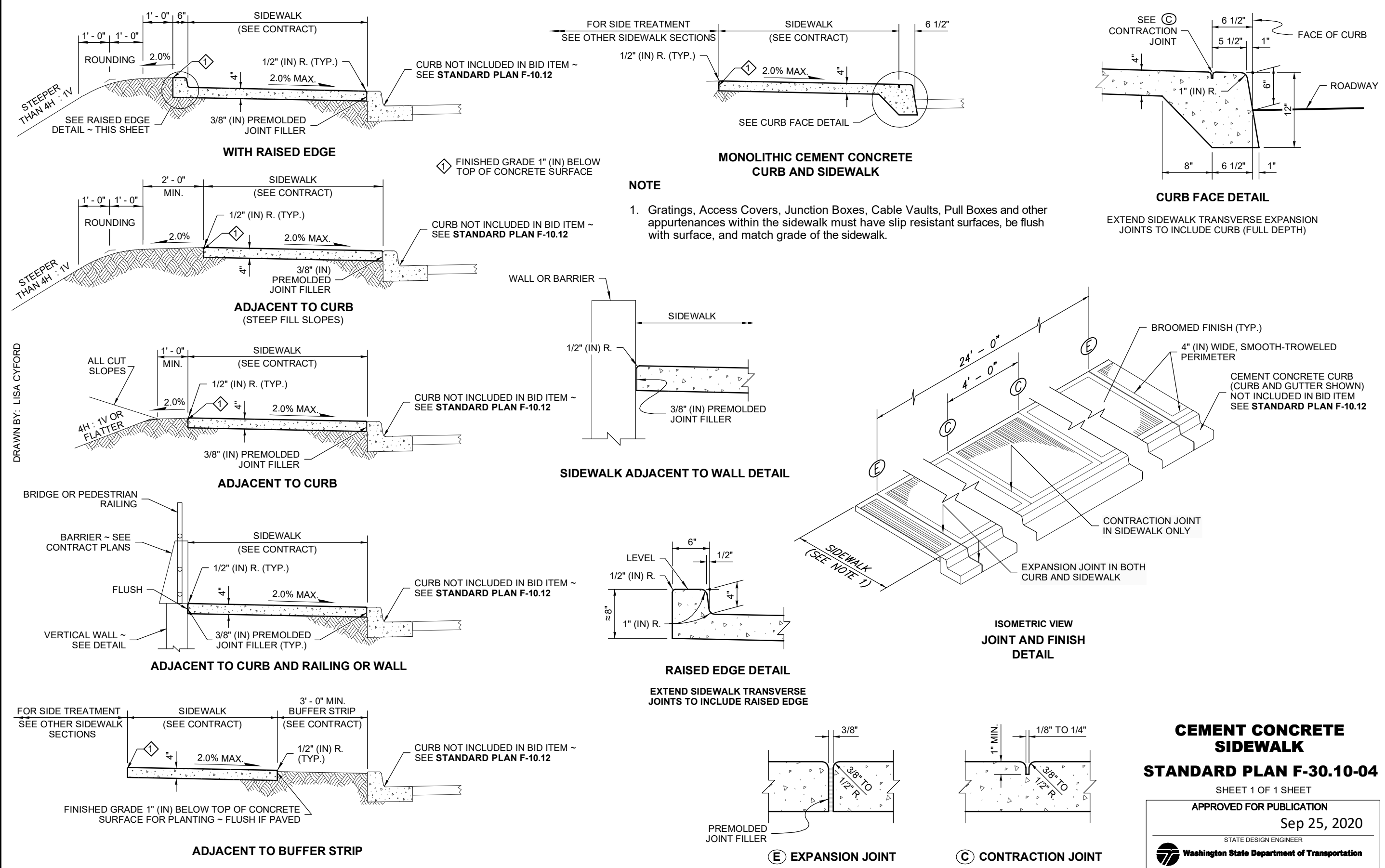
SHEET 1 OF 1 SHEET

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Jun 29, 2016
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NOTES

1. At marked crosswalks, the connection between the landing and the ramp should be maintained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See **Contract Plans** for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb and Sidewalk.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See **Contract Plans** for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type ____" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running edge of the ramp surface is allowed to exceed 2.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14**.
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp or Landing is at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

- 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) - SEE NOTE 7



**CEMENT CONCRETE
SIDEWALK**

WARD PLAN F-3

SHEET 1 OF 1 SHEET

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Sep 25, 2020

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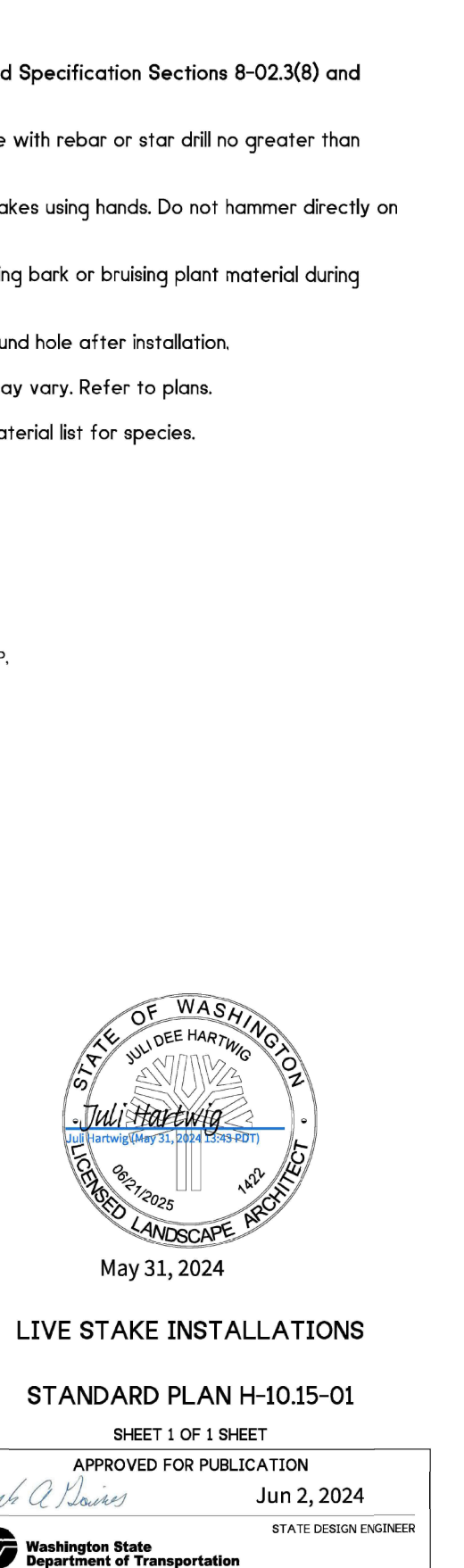
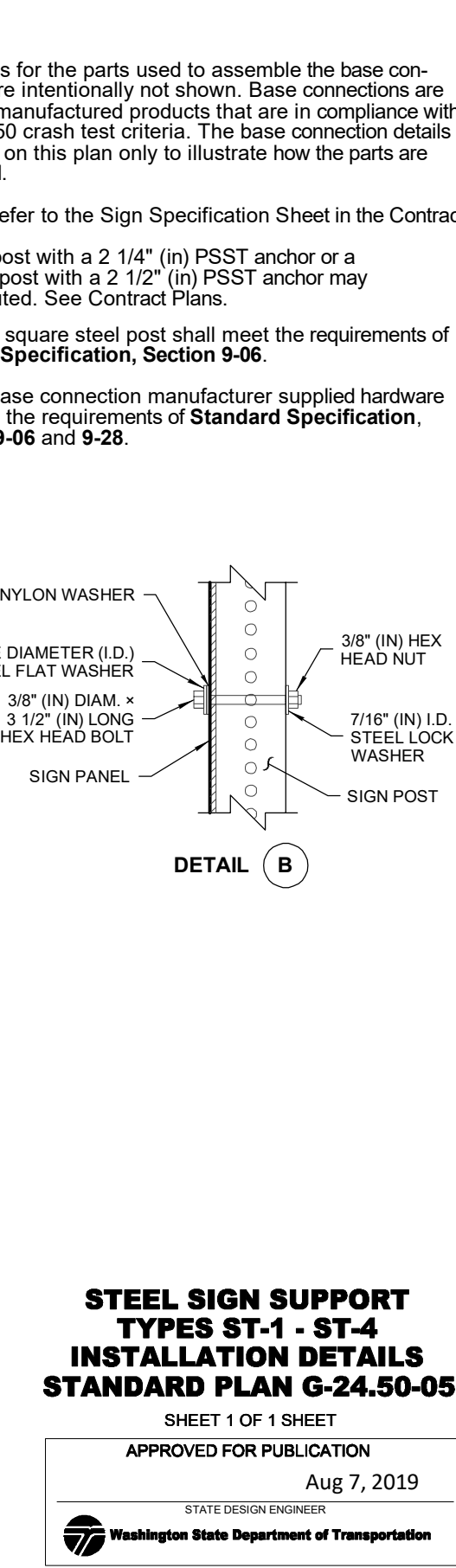
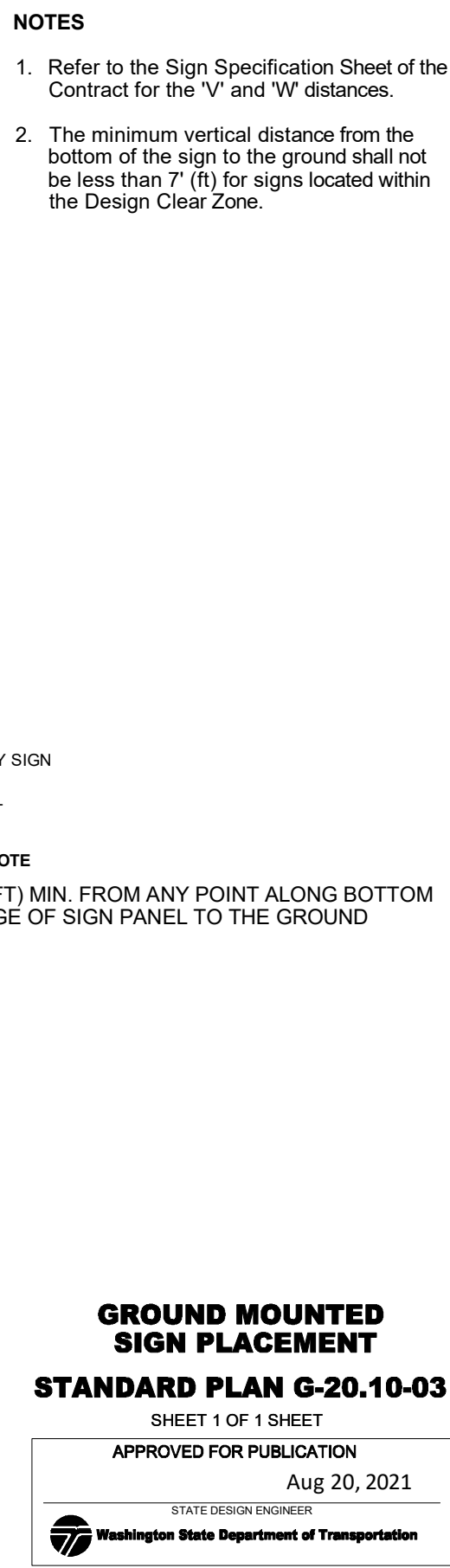
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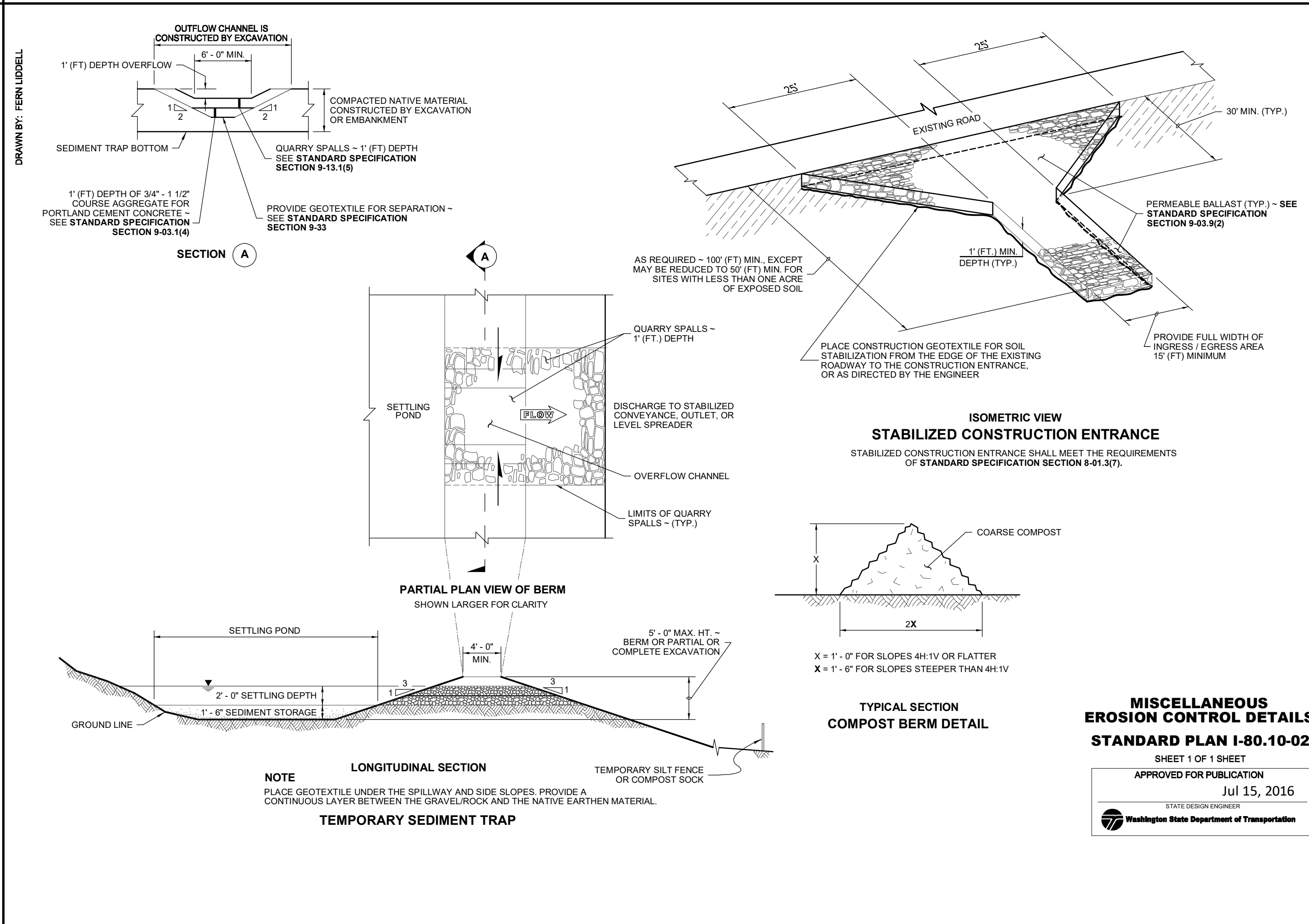
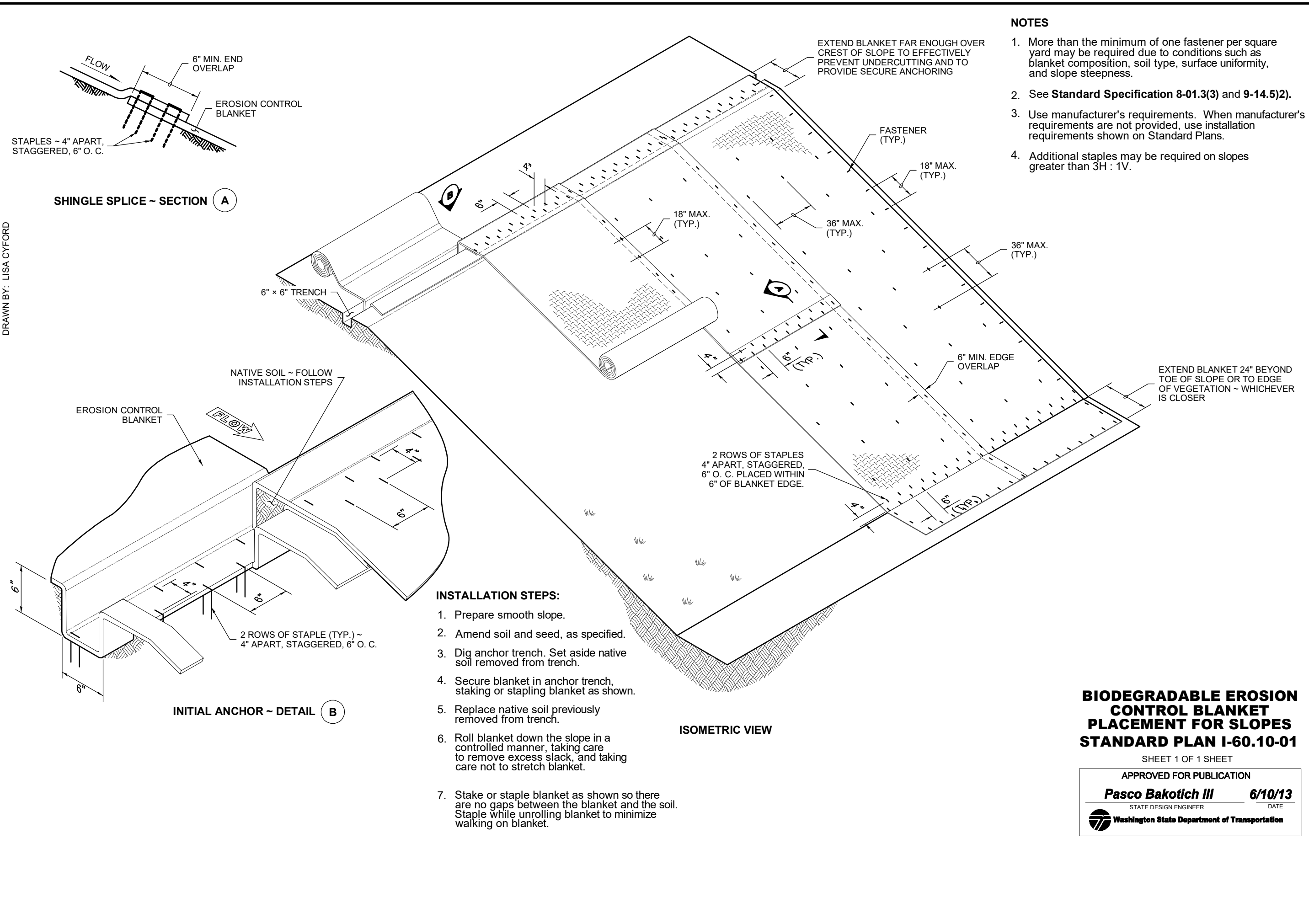
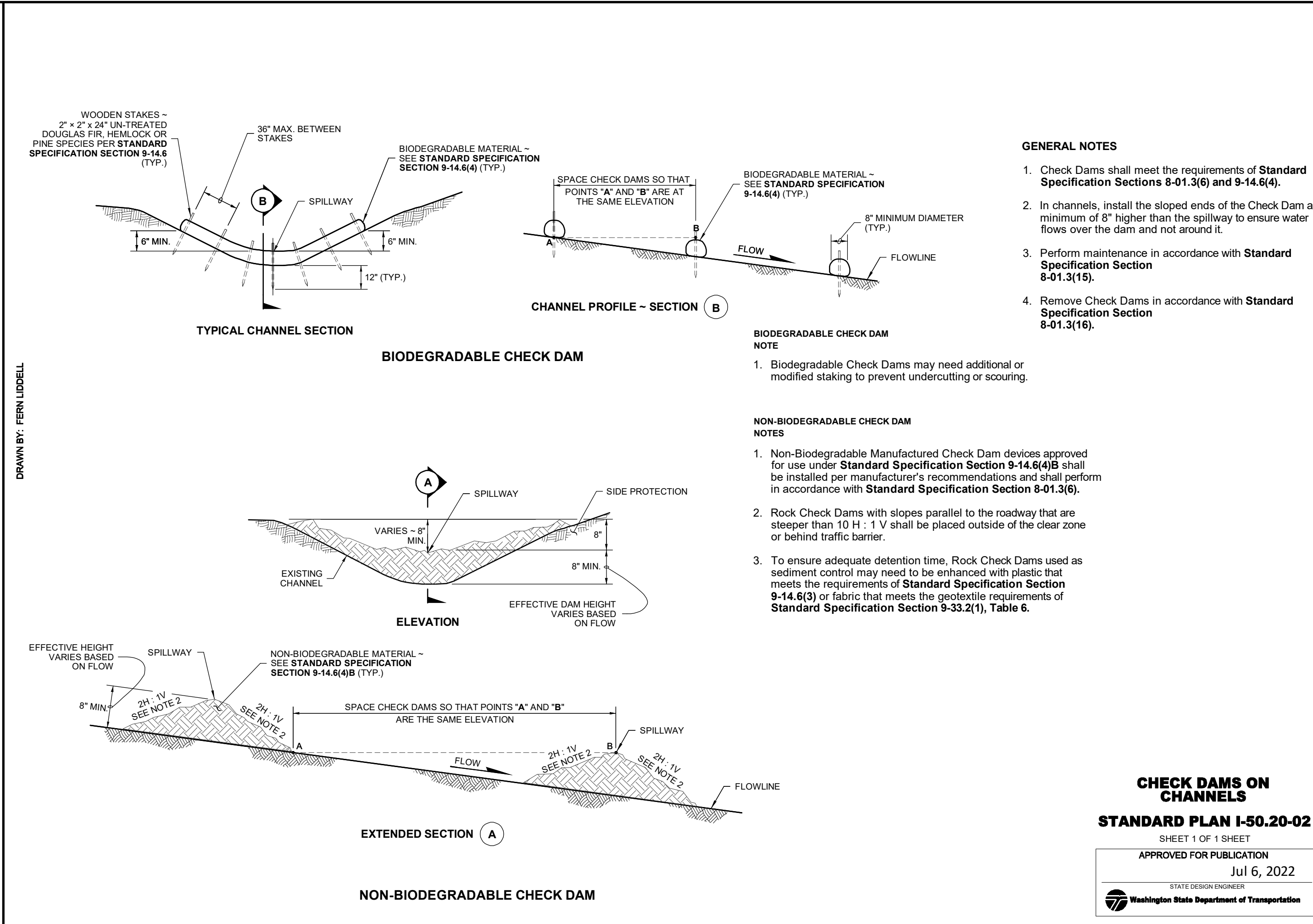
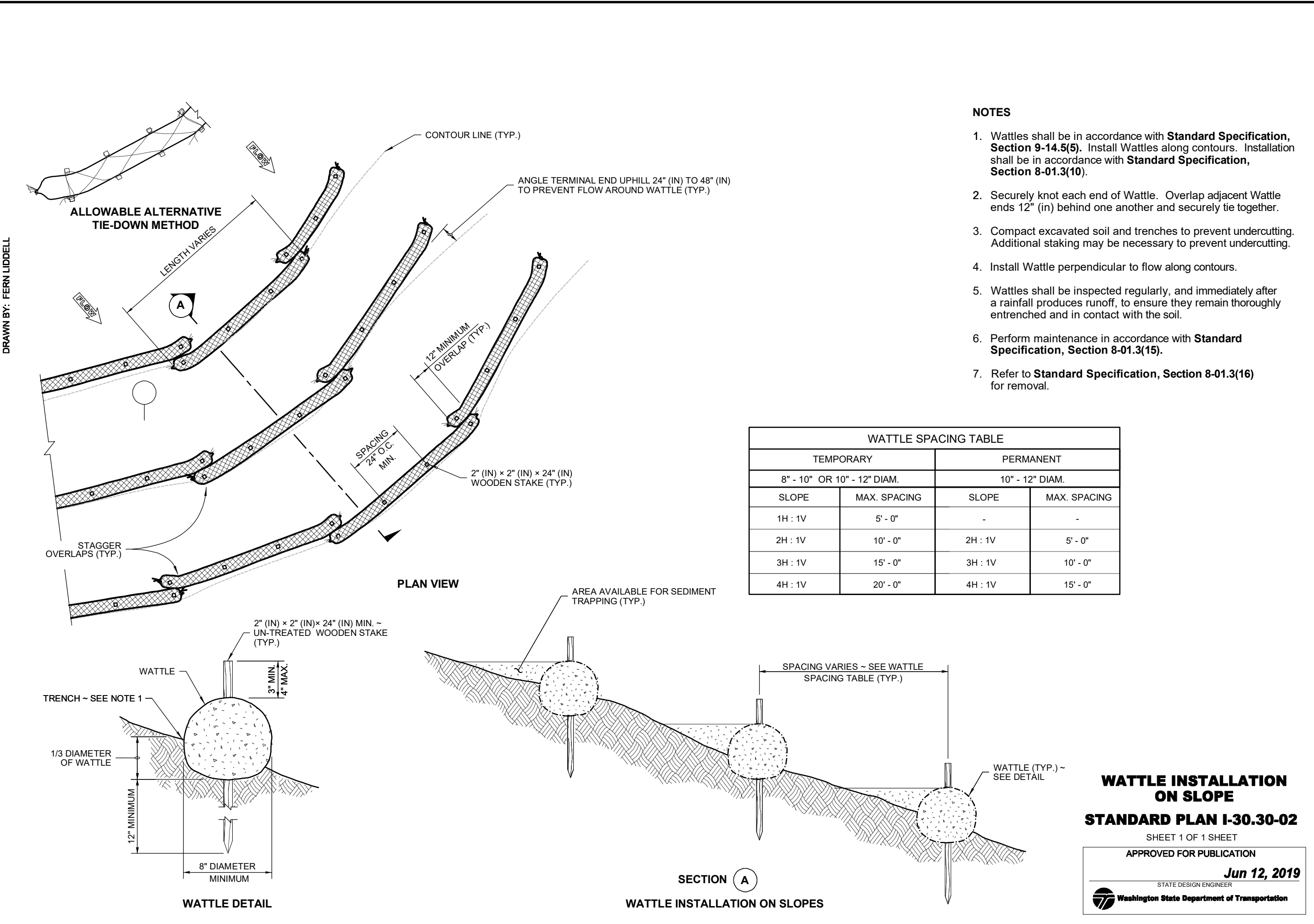
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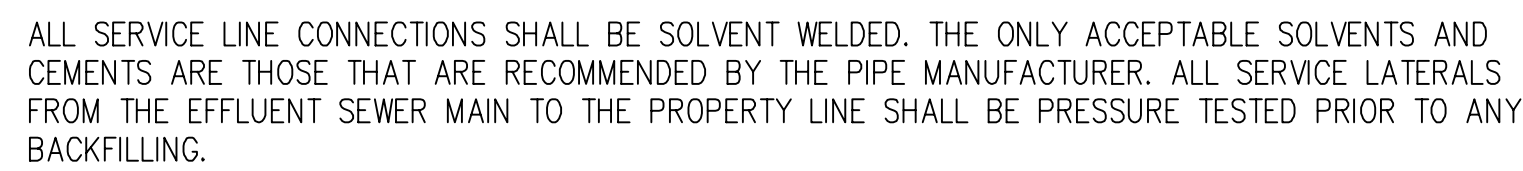
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PROJ.	60409
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SHT.	36
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RAISED LETTER

5"

7-3/4"

1-1/4"

CHANNEL DEPTH
3/4" TO 1" DEEP

1"

6-1/2"

3/4"

12"

9-1/2"

8"

5/8"

1-1/4"

18"

6-3/4"

7-1/2"

SEE NOTE #2

CONCRETE OR ASPHALT PAD
FOR VALVE BOXES NOT SET
IN PAVED AREAS.
(24" SQUARE, 4" THICK)

24"

6"

6"

4"

4"-8"

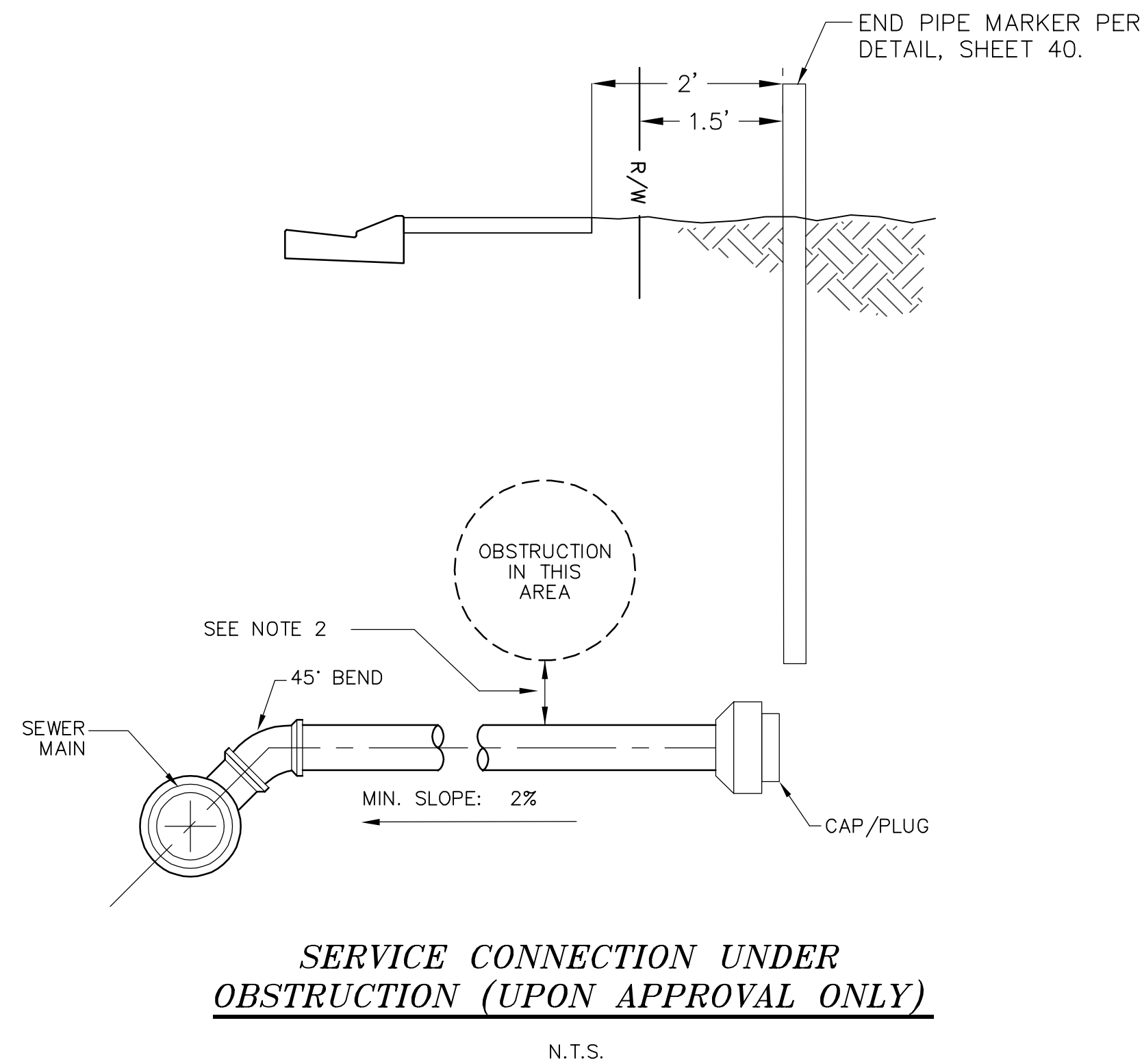
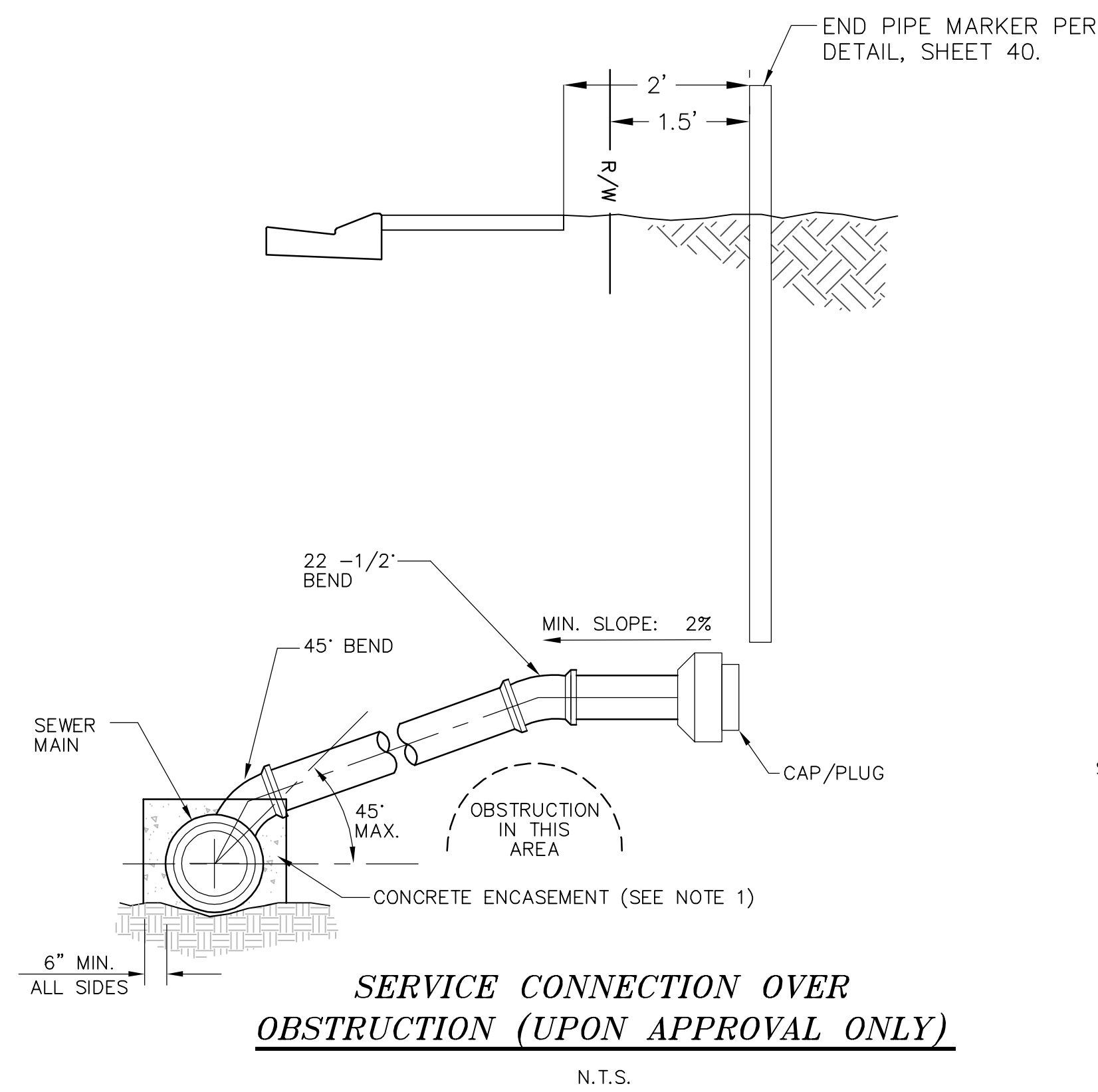
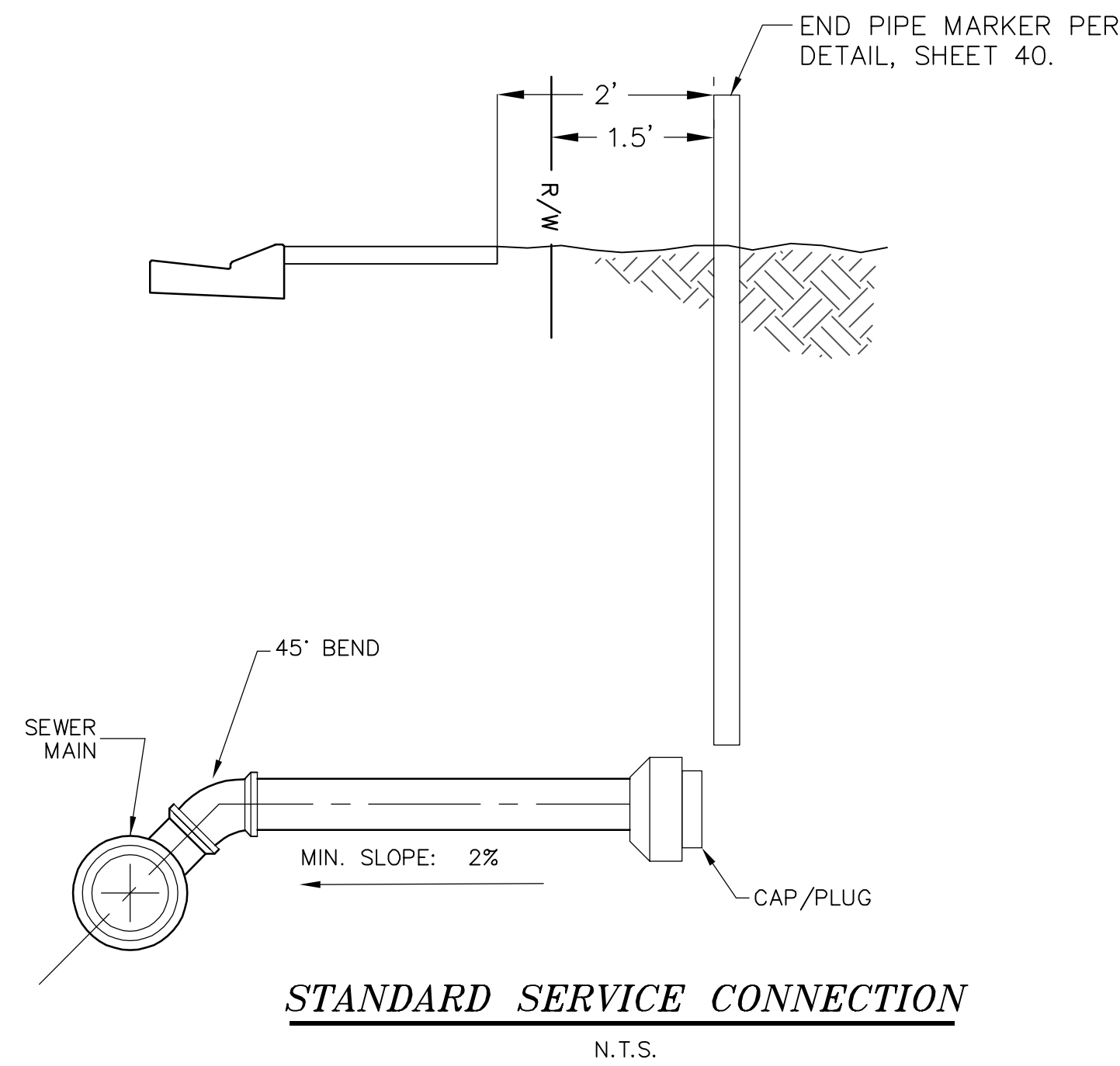
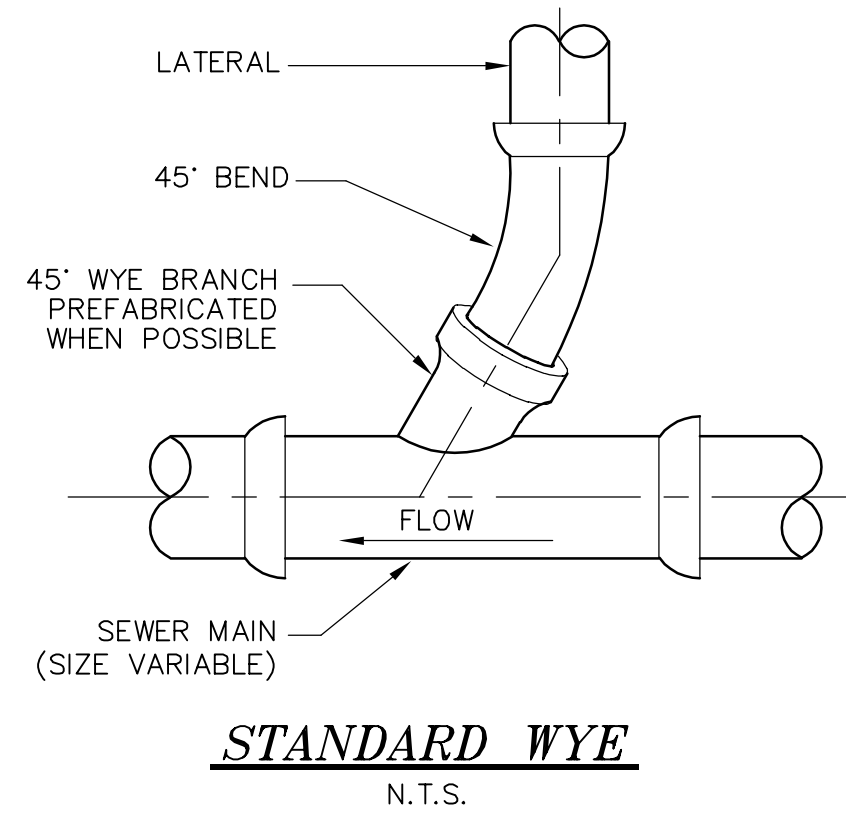
6" PVC
SEE NOTE #1

- NOTES:
1. EXTENSIONS SHALL BE 6" ASTM D 3034 SDR 35 PVC PIPE (ONE PIECE)
 2. VALVE BOX SHALL BE U.S. FILTER/PACIFIC WATER WORKS NO. 910 OR EQUAL.
 3. THE LID SHALL INCLUDE THE "W" IN THE DESIGN.
 4. THERE SHALL BE 1/2" CLEARANCE UNDER THE PIN CAST INTO THE LID.

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SHT. 41

D:\PROJECTS\60409 - SRP - RAISE LOOP ROAD\4. CADD\PRODUCTION\60409 - WSDOT DETAILS.DWG 10/31/2025 9:48:37 AM brylennachurch



NOTES:

1. ALL SEWER LATERALS TO BE HDPE 4" OR 6" DIAMETER MATERIAL SDR-35.
2. WHERE CLEARANCE BETWEEN BOTTOM OF OBSTRUCTION AND TOP OF LATERAL IS LESS THAN 6" ENCASE LATERAL IN CONCRETE.

GRAVITY SEWER LATERAL CONNECTIONS

PRELIMINARY ONLY
RAISE LOOP ROAD
SHOALWATER BAY INDIAN TRIBE
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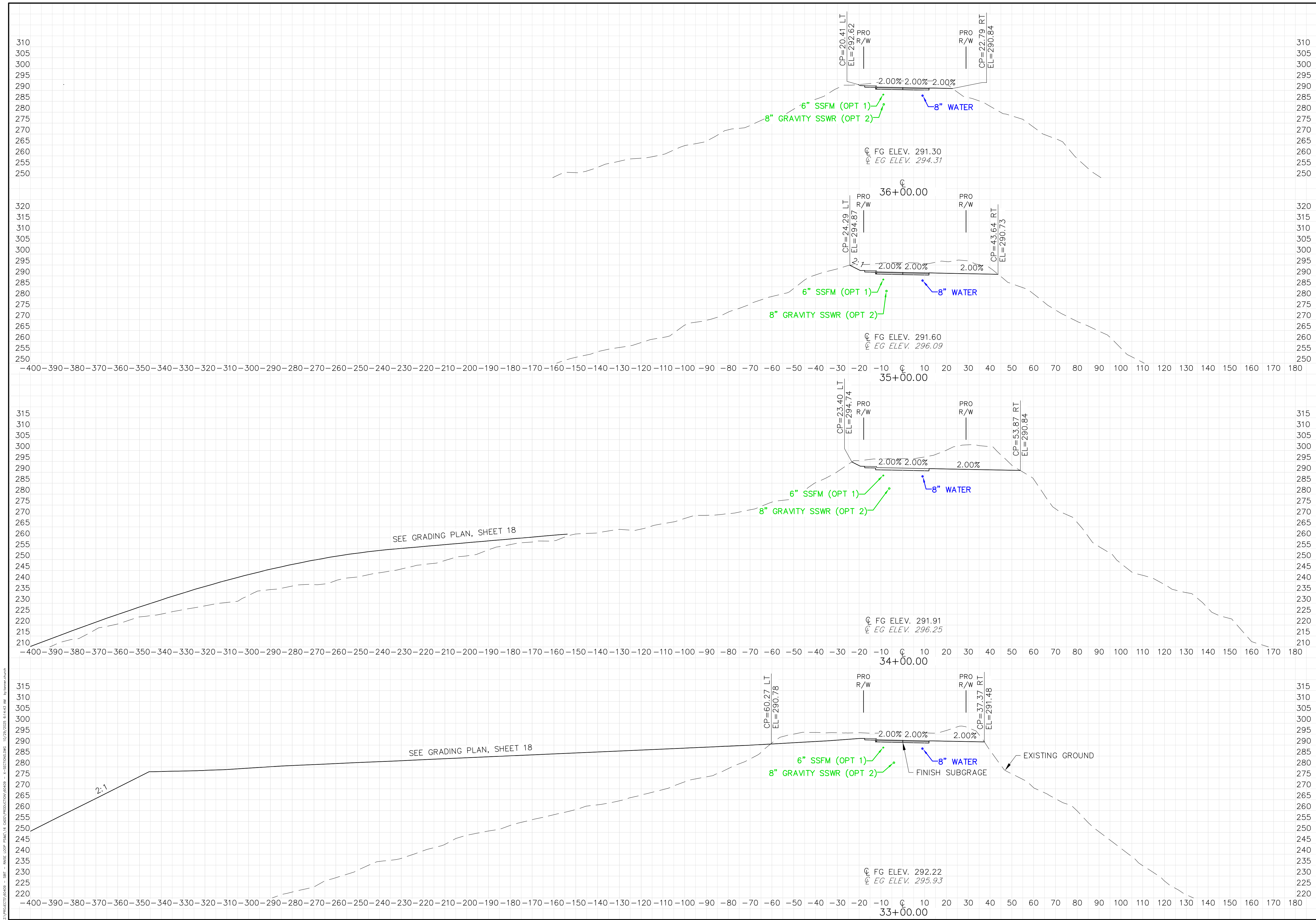
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SHT.	X2



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SHT.	X3



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60409

SHT.

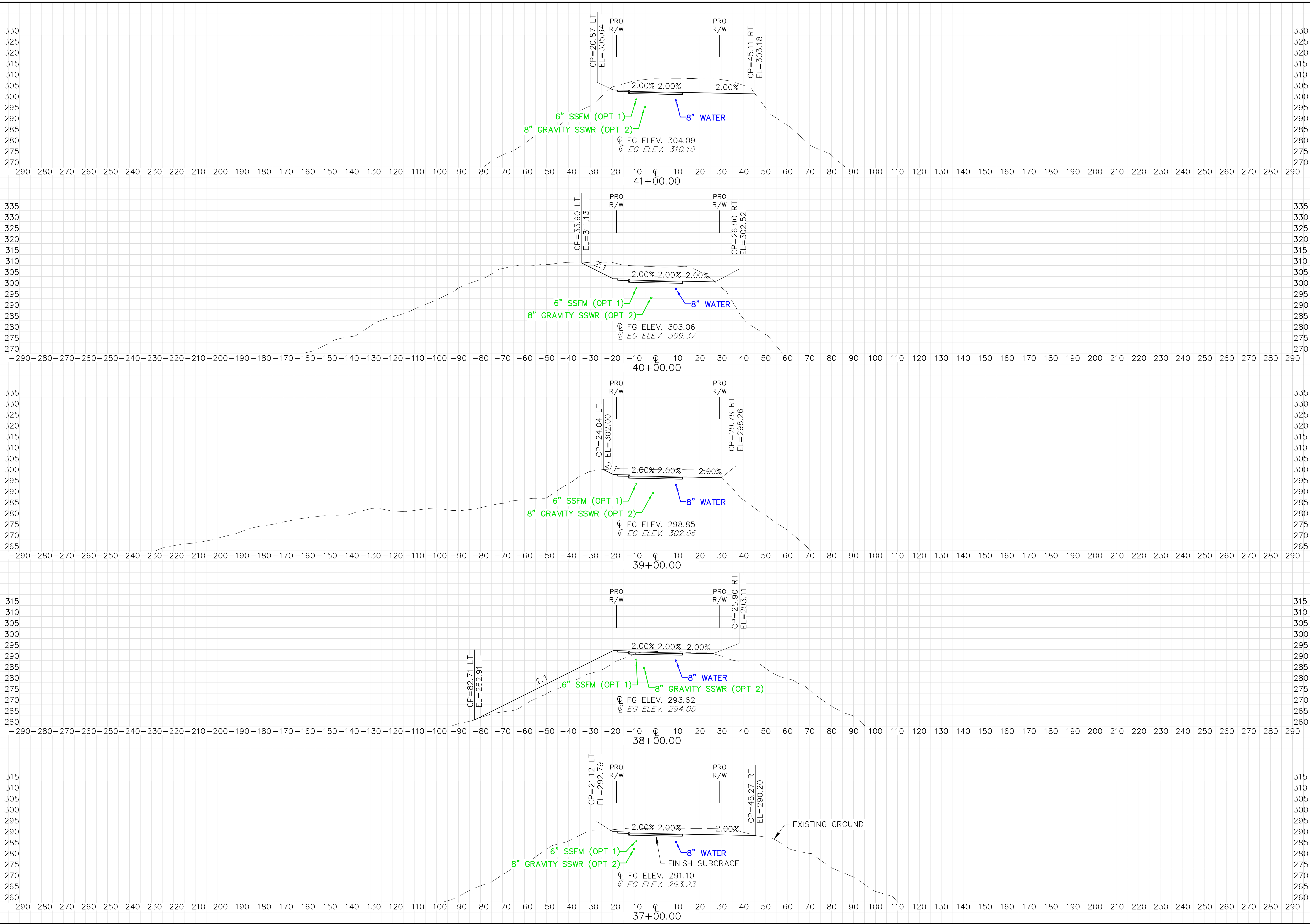
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PRAYSE LOOP ROAD

SHOALWATER BAY TRIBE

TOKELAND, WA

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RAISE LOOP ROAD

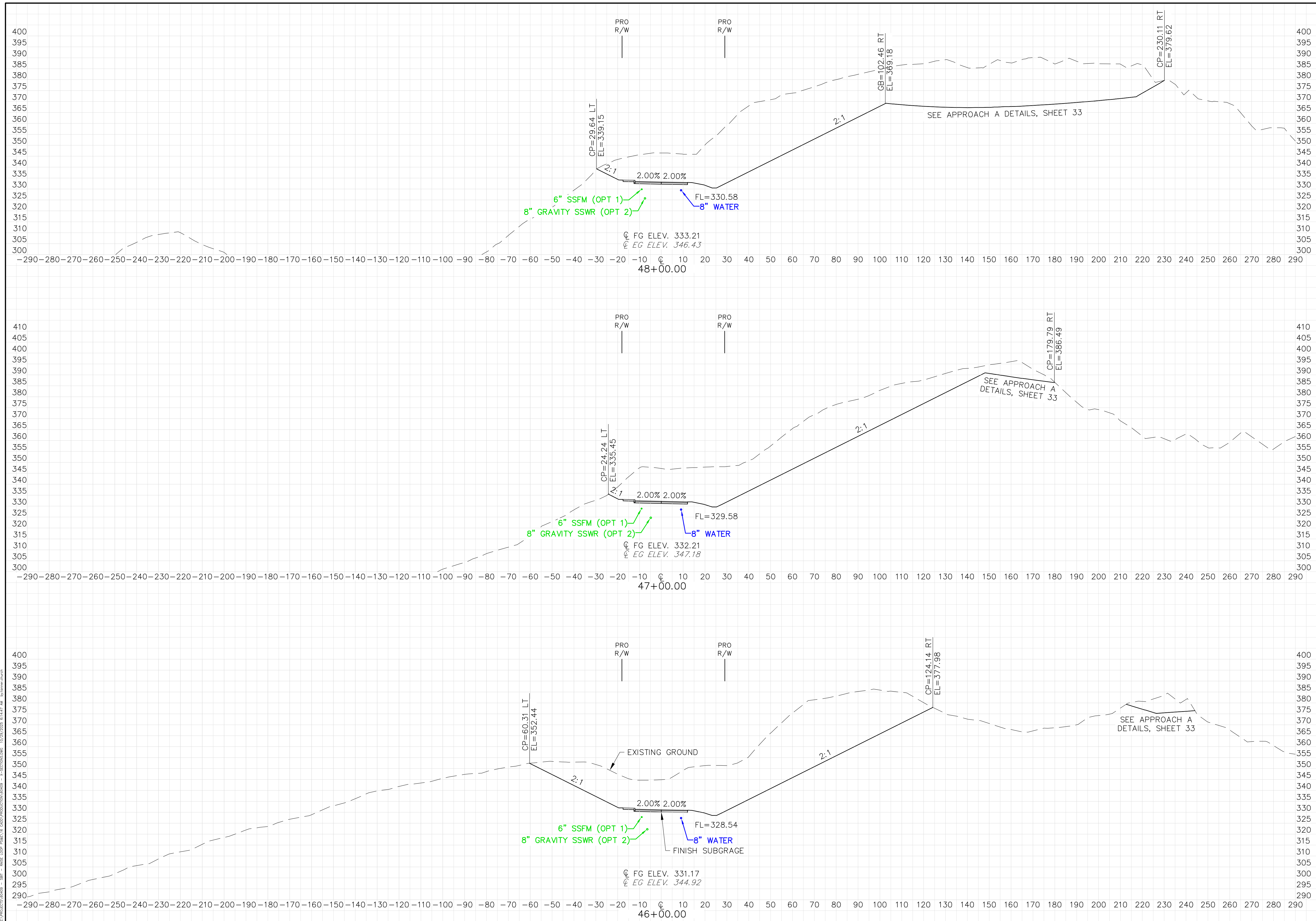
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TOKELAND, WA

CROSS SECTIONS



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RAISE LOOP ROAD
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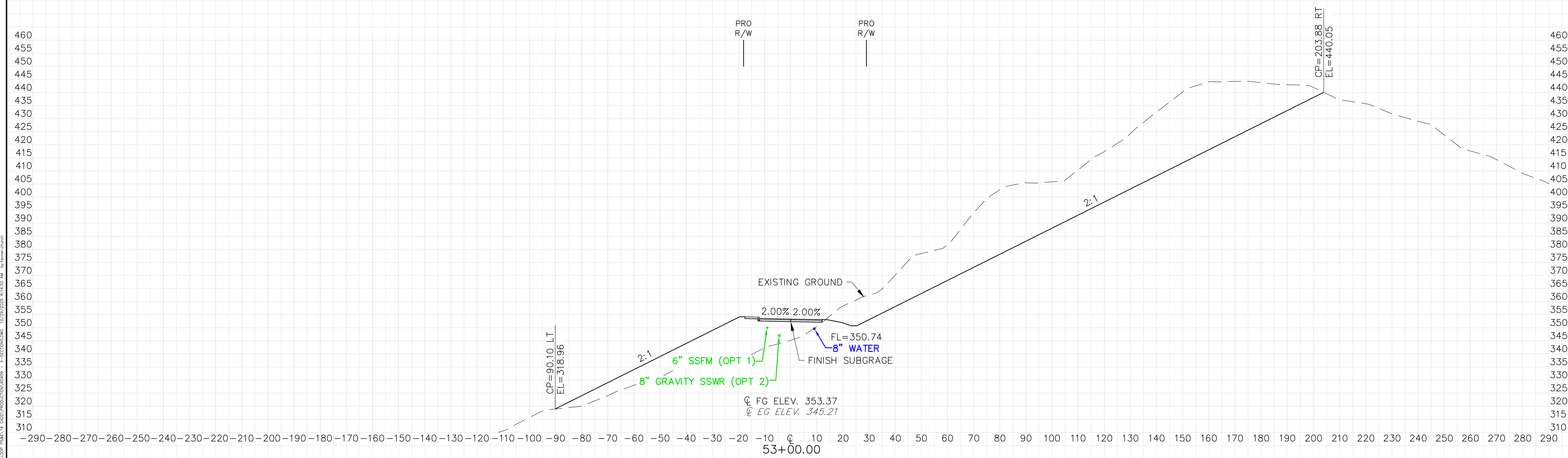


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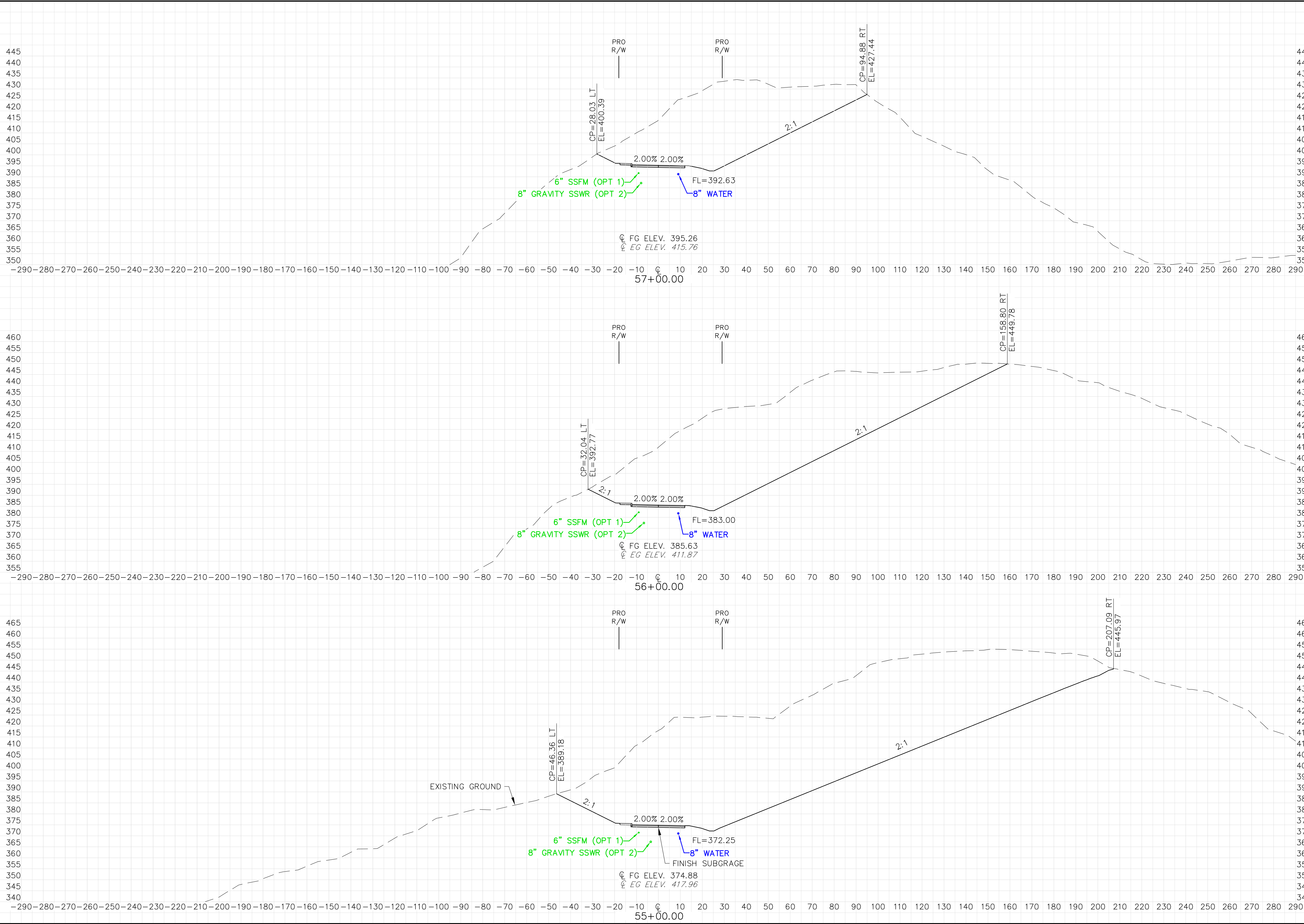
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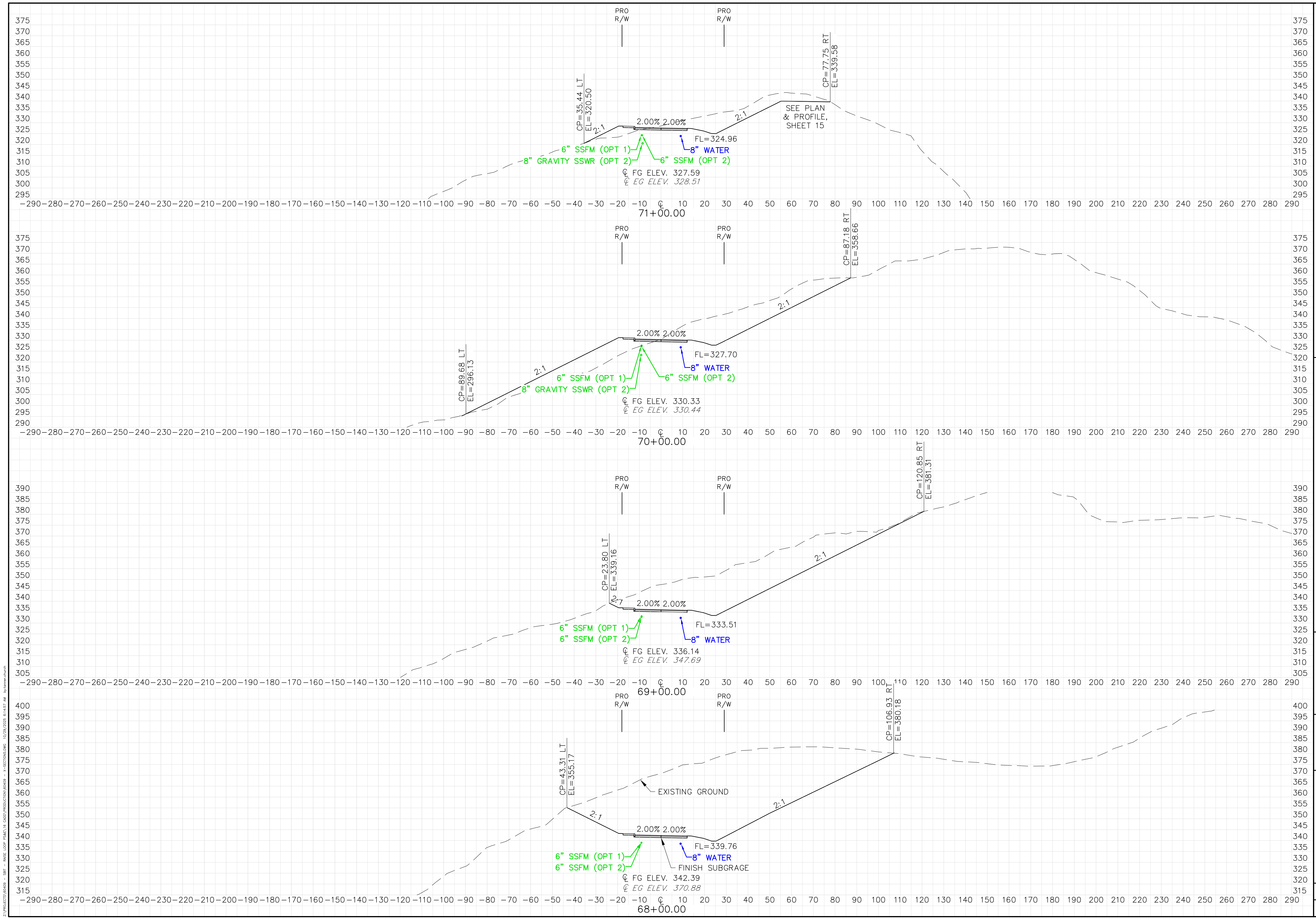
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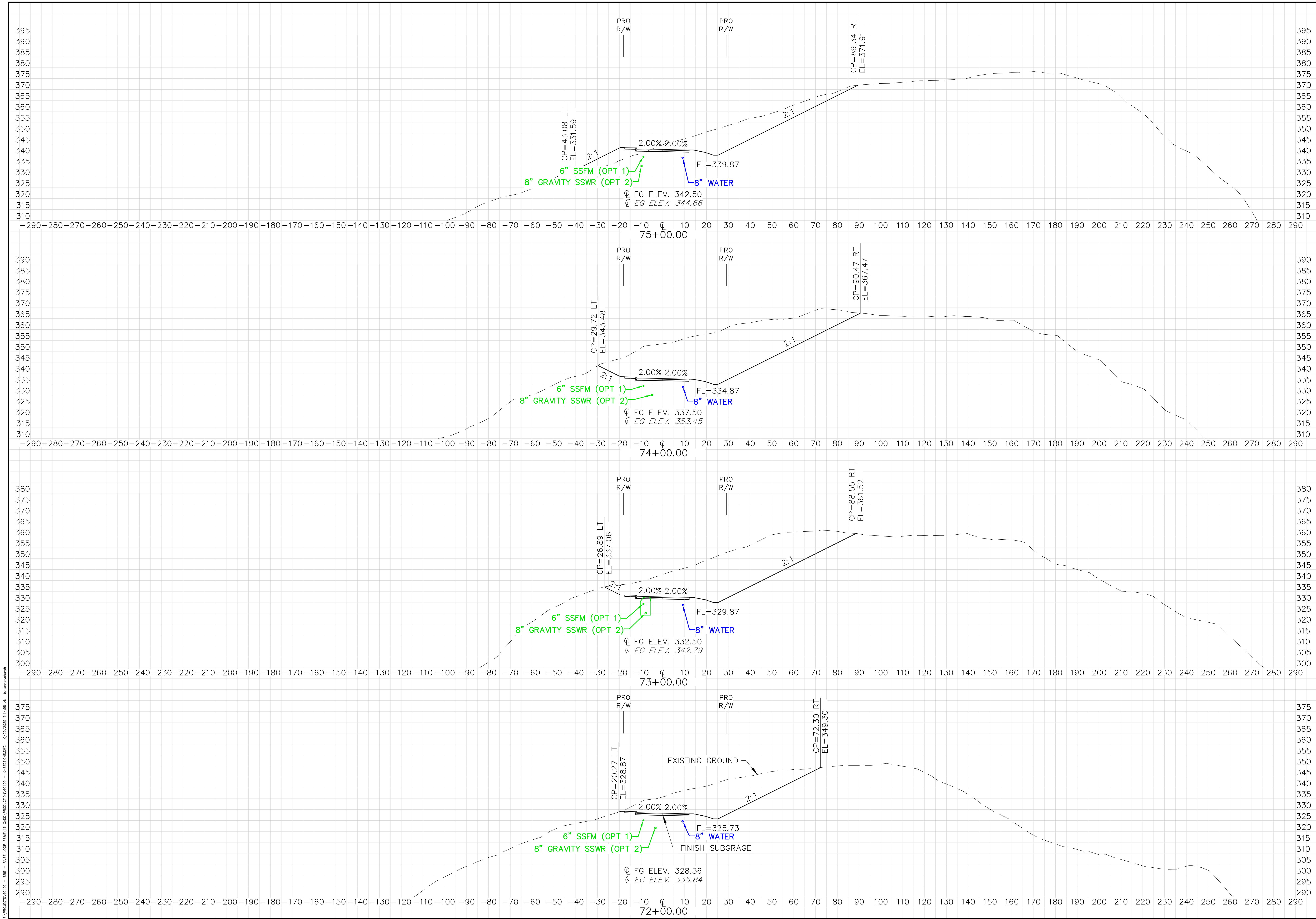
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CROSS SECTIONS
SHOALWATER BAY TRIBE
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NO.	DESCRIPTION

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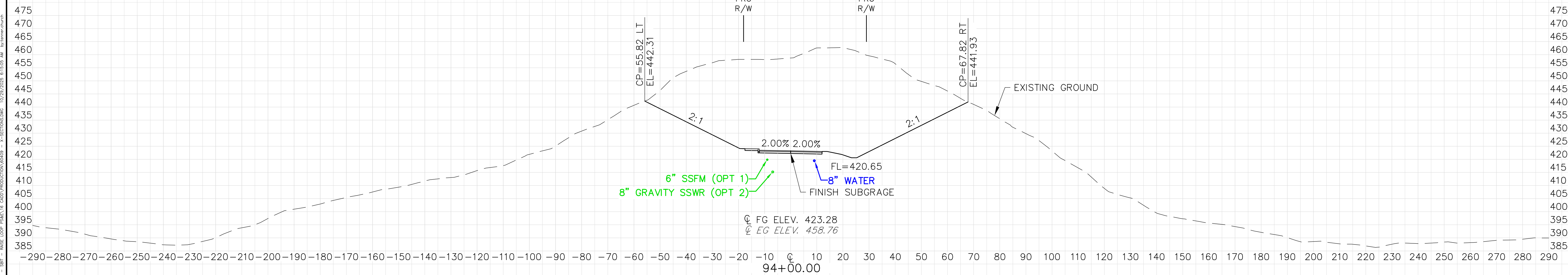
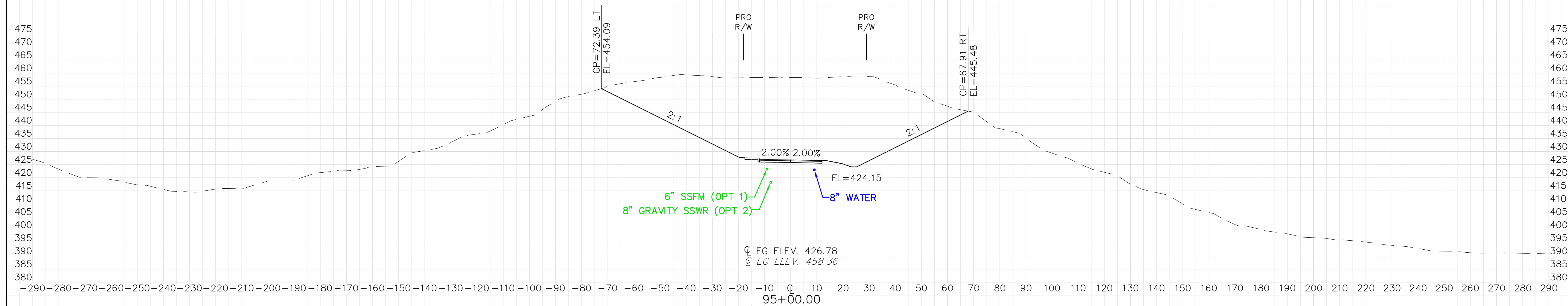
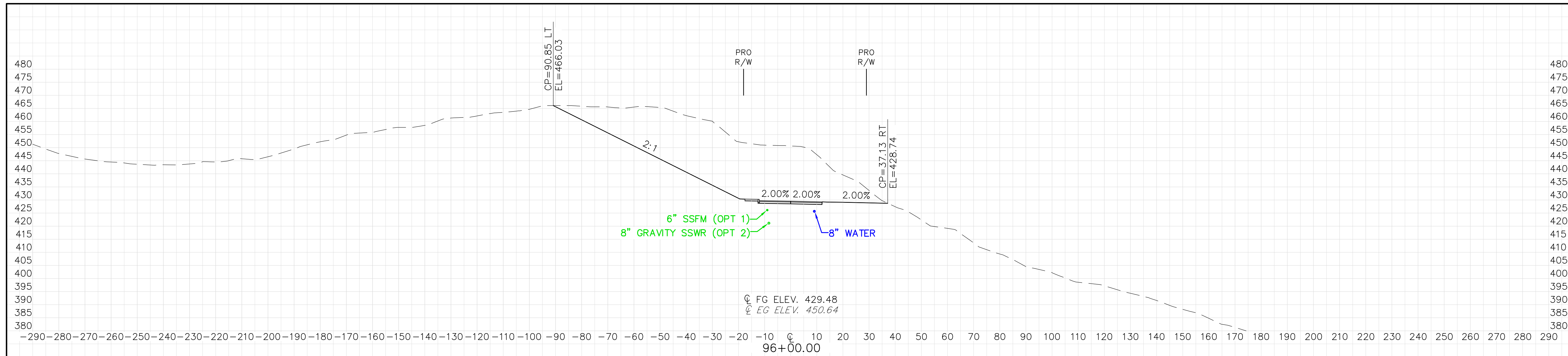
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RAISE LOOP ROAD
SHOALWATER BAY TRIBE
TOKELAND, WA
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PROJ.	60409
SHT.	X20

DESIGN AS INSTALLED SHALL CONFORM TO ALL CURRENT ELECTRICAL CODES APPLICABLE TO PROJECT JURISDICTION. THIS INCLUDES ANY AND ALL APPLICABLE LOCAL, STATE, AND/OR NATIONAL CODES.

ANY SUBCONTRACTOR(S) EMPLOYED BY THE CONTRACTOR SHALL BE HELD TO THE SAME STANDARDS AND REQUIREMENTS AS THE CONTRACTOR, AND ALL WORK THE SUBCONTRACTOR(S) PERFORM SHALL BE ASSESSED AS IF DONE BY THE CONTRACTOR.

CONTRACTOR SHALL PROVIDE COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS AS SPECIFIED, AS SHOWN ON DRAWINGS, AS REQUIRED, AND PER DESIGN INTENT.

ALL ELECTRICAL EQUIPMENT SHALL BE NEW, OF LIKE MATERIALS, AND PROCURED THROUGH AUTHORIZED DISTRIBUTORS. EQUIPMENT SHALL BE OF SAME SYSTEM AND TYPE BY SAME MANUFACTURER. EQUIPMENT SHALL BE LISTED FOR ITS USE AND SHALL MEET WASHINGTON LISTING REQUIREMENTS.

CONTRACTOR SHALL WARRANT WORK, MATERIALS, AND EQUIPMENT FOR NOT LESS THAN ONE-YEAR. THIS REQUIREMENT SHALL NOT LIMIT, RESTRICT, OR OTHERWISE LESSEN ANY WARRANTY PROVIDED BY EQUIPMENT MANUFACTURER'S STANDARD WARRANTY IF GREATER THAN ONE-YEAR.

CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL ELECTRICAL EQUIPMENT PER SPECIFICATIONS. STANDARD CUT-SHEETS SHALL BE PROVIDED THAT CLEARLY INDICATE MODELS TO BE INSTALLED.

ALL ELECTRICAL WORK SHALL COMPLY WITH NFPA 70E ARC FLASH RULES, WHICH SHALL INCLUDE AN ARC FLASH ANALYSIS AND ARC FLASH LABEL FOR THE CONTRACTOR CABINET.

UNLESS THE OWNER/TRIBE DETERMINES IN ITS SOLE DISCRETION THAT A CONTRACTOR'S ATTENDANCE IS NOT NECESSARY, CONTRACTORS SHALL BE REQUIRED TO ATTEND A PRE-TASK MEETING WITH THE PROJECT MANAGER AND ELECTRICAL SUPERVISOR OR DESIGNER TO DISCUSS THE HAZARDS AND SAFE WORK PROCEDURES FOR ALL ELECTRICAL WORK TO BE PERFORMED ON THE PROJECT.

ELECTRICAL WORK SHALL BE PERFORMED UNDER ELECTRICALLY SAFE WORK CONDITIONS WITH LOCK-OUT TAG-OUT PER NFPA 70E.

CONTRACTOR SHALL CALL U-DIG 811 AT LEAST 2-BUSINESS DAYS BEFORE DIG OR TRENCH PER REVISED CODE OF WASHINGTON (RCW) 19.122. SCAN & MARK SUGGESTED ROUTING FOR UTILITIES & IRRIGATION PRIOR TO TRENCHING ACTIVITIES; DO NOT DISTURB UTILITIES OR PIPING, AVOID CONFLICTS. WHERE FEASIBLE, MARK THE ANTICIPATED ROUTE(S) WITH WHITE PAINT; THIS HELPS LOCATING PERSONNEL FIND THE RIGHT AREA AND LOCATE NEARBY FACILITIES AS ACCURATELY AS POSSIBLE.

- A. ALL UNDERGROUND CONDUIT SWEEPS SHALL BE 36" LONG RADIUS SWEEPS, UON.
- B. ADJACENT UNDERGROUND UTILITY CONDUITS OF SAME TYPE SHALL BE ZIP-TIED TOGETHER. MAINTAIN MINIMUM TRENCH DEPTH REQUIREMENTS FOR ALL CONDUITS AT ALL TIMES.
- C. CONTRACTOR SHALL HAVE LOCATES PERFORMED PRIOR TO ANY EXCAVATION.
- D. CONTRACTOR SHALL PROVIDE UTILITY MARKER WARNING TAPE FOR ALL APPLICABLE UNDERGROUND CONDUIT RUNS PER UTILITY REQUIREMENTS.
- E. CONTRACTOR SHALL COORDINATE WITH UTILITY FOR EXACT CONDUIT SWEEP LOCATIONS AS WELL AS QUANTITIES OF CONDUITS BEING SWEEP UP AT CABINET/PEDESTAL LOCATIONS.
- F. CONTRACTOR SHALL MAINTAIN PROPER CONDUIT CROSSING CLEARANCE REQUIREMENTS.
- G. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL OTHER UTILITIES.

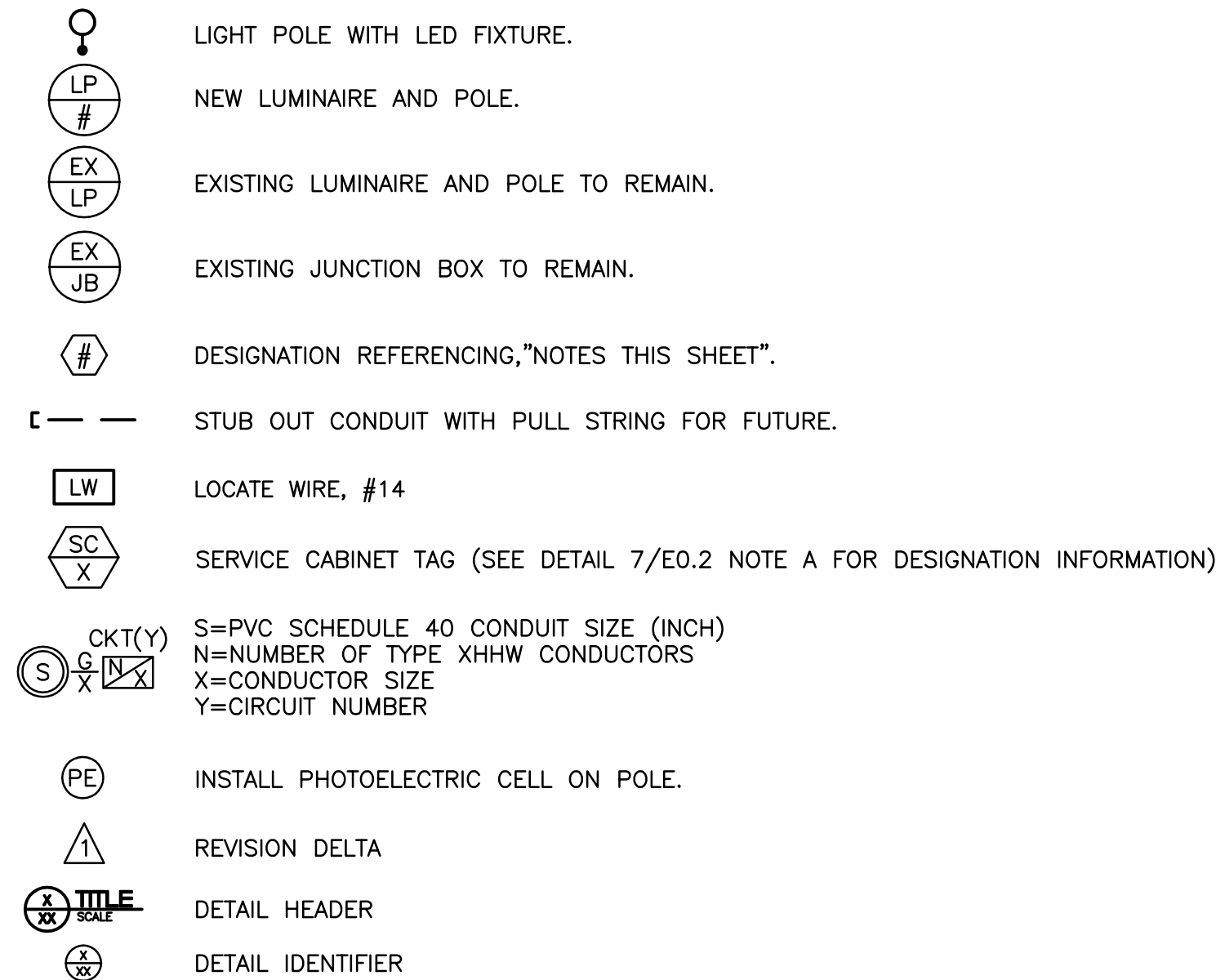
P	ONE POLE	MISC	MISCELLANEOUS
2P	TWO POLE	(N)	NEW
3P	THREE POLE	N, NEUT	NEUTRAL
1W	ONE WIRE	N/A	NOT APPLICABLE
2W	TWO WIRE	NEC	NATIONAL ELECTRICAL CODE
3W	THREE WIRE	NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
4W	FOUR WIRE		
A	AMPERE, AMP	NF	NON-FUSED
AIC	AMPERE INTERRUPTING CAPACITY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AL	ALUMINUM	#	NUMBER
ARCH	ARCHITECT, ARCHITECTURAL	OP	OVERHEAD POWER
AVG	AVERAGE	OT	OVERHEAD TELCO
AWG	AMERICAN WIRE GAUGE	P	POLE
BLDG	BUILDING	PE	PRIMARY ELECTRIC (SERVICE)
C	CONDUIT, CONTROL, CONTINUOUS	PH, Ø	PHASE
CATV	CABLE TELEVISION	PHH	POWER HANDHOLE
CKT	CIRCUIT	PV	POWER VAULT
CU	COPPER	PVC	POLYVINYL CHLORIDE CONDUIT
D	DEPTH	PWR	POWER
DB	DIRECT BURIED	QTY	QUANTITY
DED	DEDICATED	RCPT	RECEPTACLE
DET	DETECTOR	RGS	RIGID GALVANIZED STEEL
DIV	DIVISION	RMC	RIGID METALLIC CONDUIT
(E)	EXISTING, EXISTING TO REMAIN	RNC	RIGID NON-METALLIC CONDUIT
ELEC	ELECTRIC(AL)	RSC	RIGID STEEL CONDUIT
EOR	ENGINEER OF RECORD	RT	RAINTIGHT
EQUIP	EQUIPMENT	RSC	RIGID STEEL CONDUIT
(F)	FUTURE	SCH	SCHEDULE
G, GND	GROUND, GROUNDED	SEC	SECONDARY
GC	GENERAL CONTRACTOR	SP	SPARE
GRC	GALVANIZED RIGID CONDUIT	ST	STREET
GRS	GALVANIZED RIGID STEEL (CONDUIT)	STA	STATION
H	HEIGHT	SYM	SYMBOL
HH	HANDHOLE	TC	TELEPHONE CABINET
HV	HIGH VOLTAGE	TEL	TELEPHONE
ID	IDENTIFICATION	TEMP	TEMPORARY
IG	ISOLATED GROUND	TV	TELEVISION
J, JB	JUNCTION BOX	TYP	TYPICAL
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY	U	UP
KCMIL	THOUSAND CIRCULAR MILS	UG	UNDERGROUND
KVA	KILOVOLT AMPERE	UGP	UNDERGROUND POWER
KW	KILOWATT	UGT	UNDERGROUND TELCO
LLF	LIGHT LOSS FACTOR	UON	UNLESS OTHERWISE NOTED
LN	LANE	UTL	UTILITY
MAX	MAXIMUM	V	VOLT
MB	METER BASE	VA	VOLT-AMPERE
MFR	MANUFACTURER	W	WATT, WIRE, WIDTH
MH	MANHOLE	W/	WITH
MIN	MINIMUM	WP	WEATHERPROOF
		XFMR	TRANSFORMER

RACEWAYS

	CONDUIT - CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS
	CONDUIT - CONCEALED IN, UNDER FLOOR SLAB OR BELOW GRADE
	CIRCUIT TYPE AS INDICATED: "NE" = NORMAL/EMERGENCY CIRCUIT "EB" = EMERGENCY BATTERY SYSTEM WIRING, #10 AWG (MIN) "HT" = HEAT TRACE "WT" = KEEP WARM TRACE "OP" = OVERHEAD POWER "OT" = OVERHEAD TELCO "UP" = UNDER FLOOR/GROUND POWER "UT" = UNDER FLOOR/GROUND TELCO
	GROUND CONNECTION PER NEC 250
	GROUND TEST WELL

—○ CONDUIT - STUB-UP

T	TRANSFORMER
P	POWER PULL BOX, IN-GRADE
S	STREET LIGHTING PULL BOX, IN-GRADE
SC	LIGHTING SERVICE CABINET, IN-GRADE



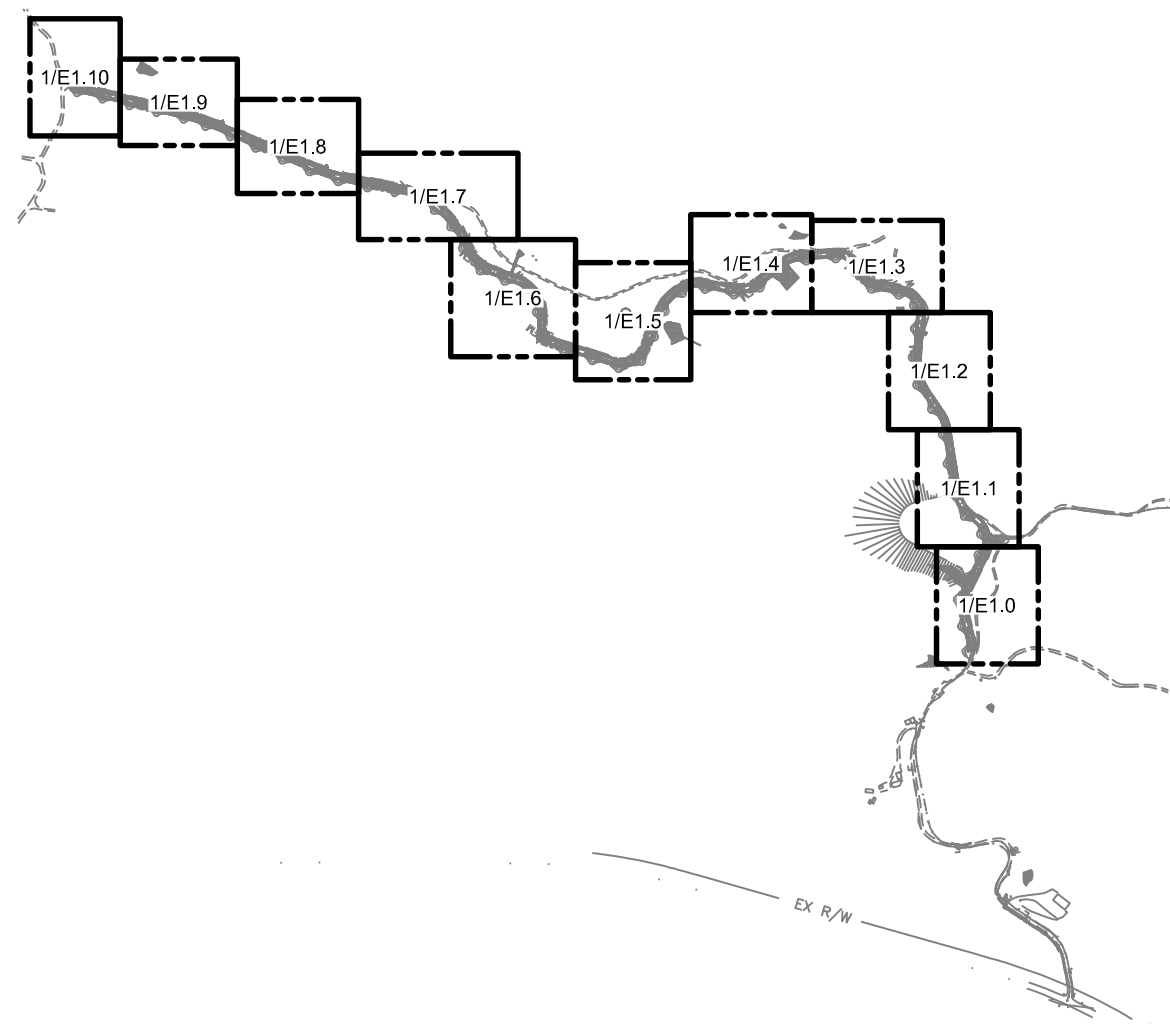
E0.1	ELECTRICAL COVER SHEET
E0.2	ELECTRICAL DETAILS
E1.0	PARTIAL SITE PLAN – POWER
E1.1	PARTIAL SITE PLAN – POWER
E1.2	PARTIAL SITE PLAN – POWER
E1.3	PARTIAL SITE PLAN – POWER
E1.4	PARTIAL SITE PLAN – POWER
E1.5	PARTIAL SITE PLAN – POWER
E1.6	PARTIAL SITE PLAN – POWER
E1.7	PARTIAL SITE PLAN – POWER
E1.8	PARTIAL SITE PLAN – POWER
E1.9	PARTIAL SITE PLAN – POWER
E1.10	PARTIAL SITE PLAN – POWER

POWER
GRAYS HARBOR PUD
MOLLY CONLEY
PHONE: 509.981.3888
EMAIL: mconley@ghpud.org

KEY PLAN
SCALE: 1" = 1000'-0"



NOTE: ABBREVIATIONS AND SYMBOLS SHOWN ON THIS SHEET ARE TYPICAL OF ALL PROJECTS. SOME ABBREVIATIONS OR SYMBOLS THAT APPEAR ON THIS SHEET MAY NOT APPEAR ELSEWHERE IN THIS DOCUMENT.



RAISE LOOP
SHOALWATER BAY TRIBE
TOKELAND, WA

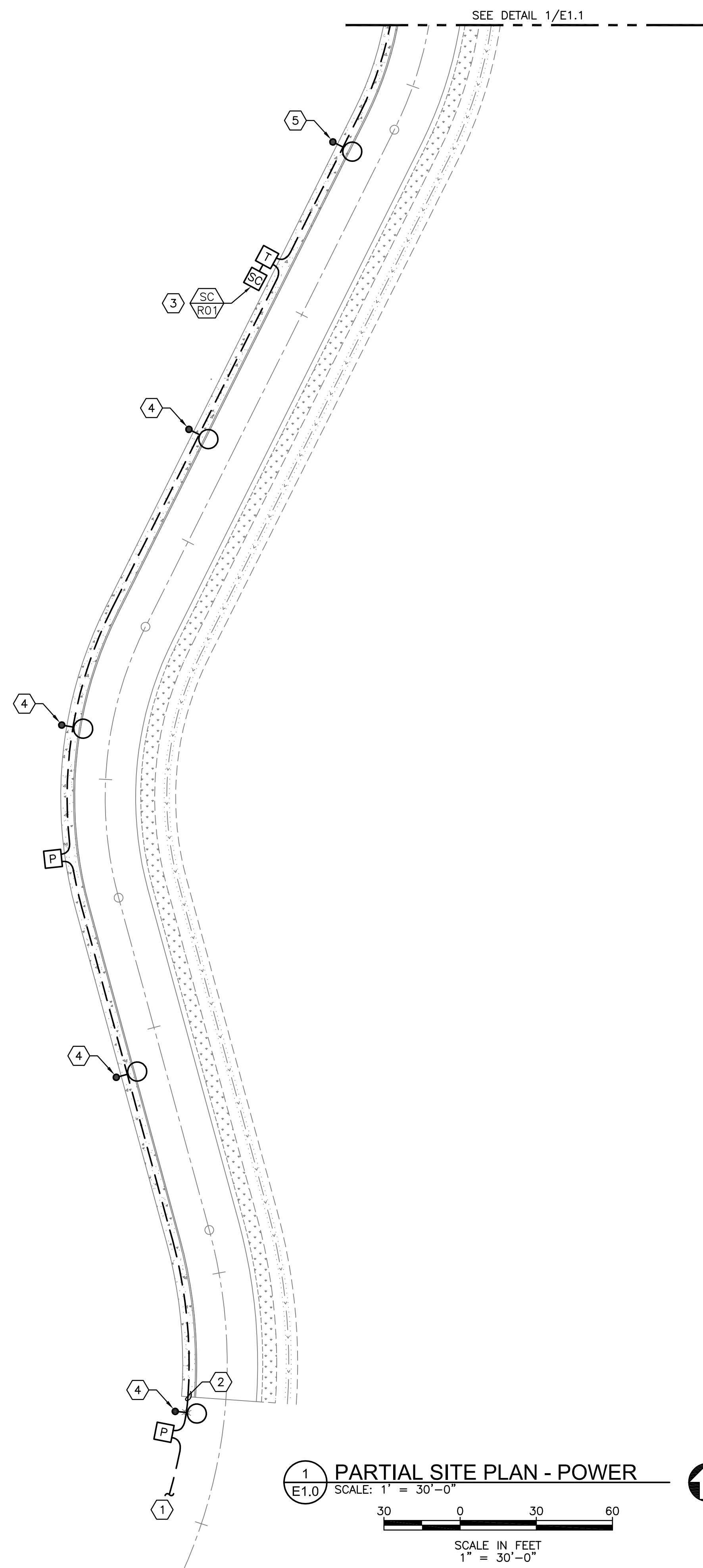


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[illegible]

PROJ. 1783.007

SHT. E0.1



GENERAL NOTES

- A. SEE DRAWING E0.1 AND E0.2 FOR OVERALL GENERAL NOTES, SYMBOL LEGENDS, DETAILS, AND SHEET INDEX.
- B. ANY CONDITIONS THAT NECESSITATE A DEVIATION FROM PLAN DOCUMENTS SHALL BE REPORTED TO ENGINEER OF RECORD.
- C. ALL EXISTING EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION. ANY EQUIPMENT NOT MARKED FOR DEMOLITION THAT IS DAMAGED, DESTROYED, DEMOLISHED, OR OTHERWISE MADE INOPERABLE AS A RESULT OF ACTIONS TAKEN BY THE CONTRACTOR SHALL BE REPLACED AND RESTORED TO PRIOR OPERATION BY CONTRACTOR AT THEIR EXPENSE.
- D. SITE LUMINAIRE FIXTURE TYPES SHOWN FOR REFERENCE ONLY. FOR INFORMATION ON SITE LUMINAIRES INCLUDING LUMINAIRE SCHEDULE, EXACT LOCATIONS, ALIGNMENT AND ORIENTATIONS, ETC. SEE RED PLAINS STREET LIGHTING SHEETS E3-E7.
- E. ALL LIGHTING POLES HAVE A STREET LIGHTING PULL BOX APPROXIMATELY 3- FEET AWAY FROM POLE BASE FOR CONDUIT AND CABLE CONNECTIONS. SEE DETAIL 1/E0.2 FOR PULL BOX INFORMATION.

NOTES THIS SHEET

- 1 POWER CONTINUES FROM ADJACENT WENAHSA SBIT EAGLE HILL PLOT UTILITY POWER UNDERGROUND CABLING. SEE EAGLE HILL PLAN SET FOR MORE INFORMATION.
- 2 POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- 3 SERVICE CABINET 'SC-R01' FEEDING (2) LIGHTING CIRCUITS. CONDUIT FOR LIGHTING CIRCUITS SHALL BE RAN FROM SERVICE CABINET IN TRENCH TO NEAREST LIGHT POLE ON CIRCUIT. RUN IN JOINT TRENCH WHERE POSSIBLE. FOR ALL FURTHER POLES IN CIRCUIT, CONDUIT SHALL DAISY CHAIN FROM EACH LIGHT POLE TO THE NEXT IN CIRCUIT, WITH FINAL POLE HAVING REMAINING CONDUIT FITTING CAPPED AND SEALED. SEE SHEET E1.1 FOR OTHER LIGHTS FED BY SAME SERVICE CABINET. REFER TO DETAIL 7/E0.2 FOR MORE INFORMATION ABOUT SERVICE CABINET WIRING AND CONNECTIONS.
- 4 LUMINAIRE POWER FED BY CIRCUIT SC-R01-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- 5 LUMINAIRE POWER FED BY CIRCUIT SC-R01-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.

RAISE LOOP
SHOALWATER BAY TRIBE
TOKELAND, WA
PARTIAL SITE PLAN – ELECTRICAL



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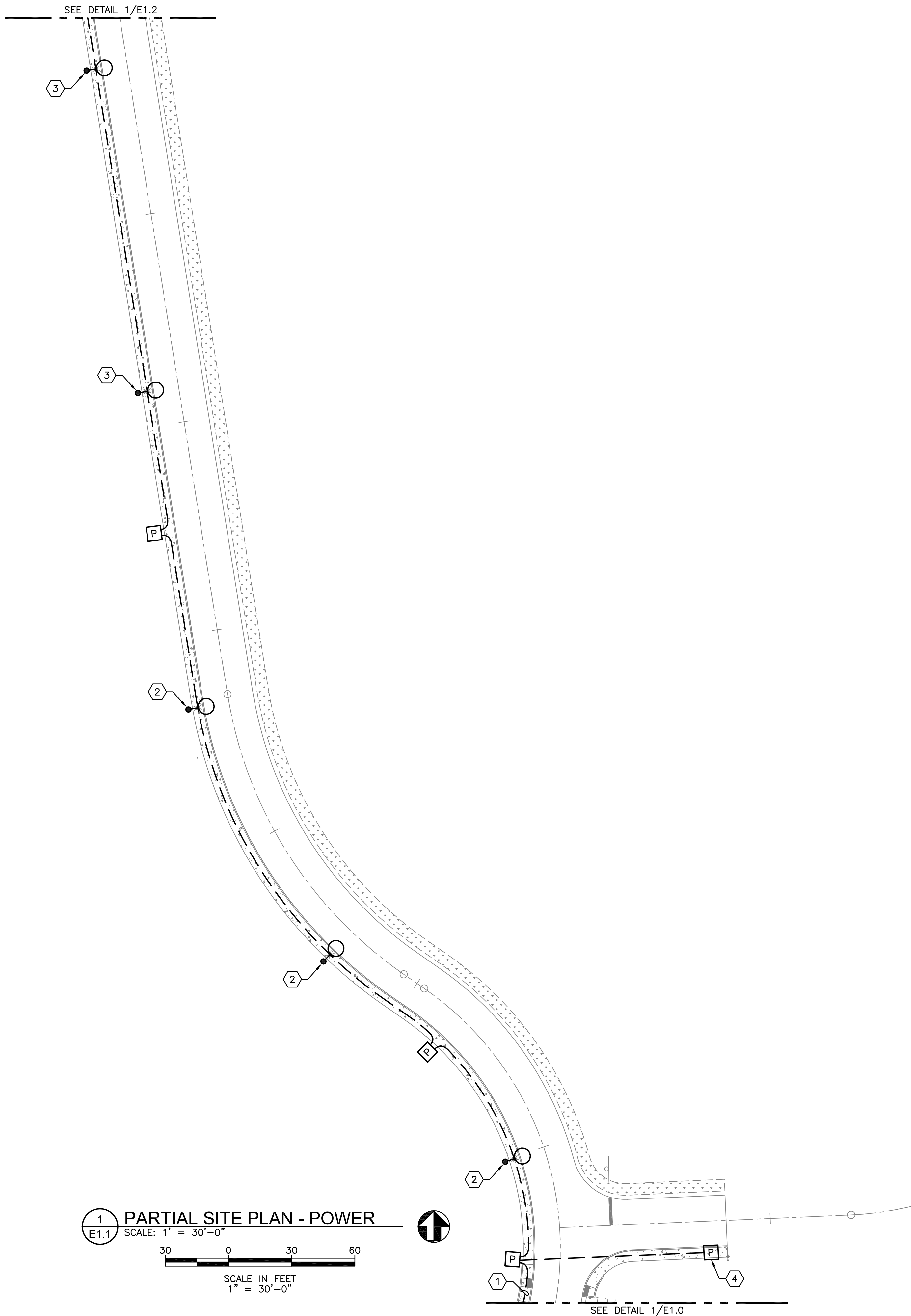
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PROJ. 1783.007

SHT. E1.0



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GENERAL NOTES

- A. SEE DRAWING E0.1 AND E0.2 FOR OVERALL GENERAL NOTES, SYMBOL LEGENDS, DETAILS, AND SHEET INDEX.
- B. ANY CONDITIONS THAT NECESSITATE A DEVIATION FROM PLAN DOCUMENTS SHALL BE REPORTED TO ENGINEER OF RECORD.
- C. ALL EXISTING EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION. ANY EQUIPMENT NOT MARKED FOR DEMOLITION THAT IS DAMAGED, DESTROYED, DEMOLISHED, OR OTHERWISE MADE INOPERABLE AS A RESULT OF ACTIONS TAKEN BY THE CONTRACTOR SHALL BE REPLACED AND RESTORED TO PRIOR OPERATION BY CONTRACTOR AT THEIR EXPENSE.
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- E. ALL LIGHTING POLES HAVE A STREET LIGHTING PULL BOX APPROXIMATELY 3- FEET AWAY FROM POLE BASE FOR CONDUIT AND CABLE CONNECTIONS. SEE DETAIL 1/E0.2 FOR PULL BOX INFORMATION.

NOTES THIS SHEET

- 1 POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- 2 LUMINAIRE POWER FED BY CIRCUIT SC-R01-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- 3 LUMINAIRE POWER FED BY CIRCUIT SC-R02-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- 4 PULL BOX SHALL BE PROVIDED FOR FUTURE EXPANSION.

R&W
ENGINEERING, INC.
9615 S.W. Allen Boulevard
Suite 107
Beaverton, Oregon 97005
Phone: (503) 726-3312
Office: (503) 292-6000
E-mail: rweng@rweng.com
Project No.: 1783.007.001 Contact: JORDAN KLOSTER

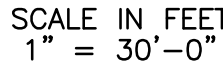
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RAISE LOOP
SHOALWATER BAY TRIBE
TOKELAND, WA
PARTIAL SITE PLAN - ELECTRICAL

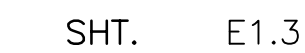
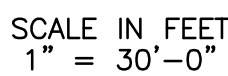


PROJ.	1783.007
SHT.	E1.2

SEE DETAIL 1/E1.4

SEE DETAIL 1/E1.2

(E1.3) SCALE: 1' = 30'-0"



RAISE LOOP
SHOALWATER BAY TRIBE
TOKELAND, WA