Port Gamble S'Klallam Tribe

Little Boston Road Pedestrian Trail

RECORD DRAWINGS

TRIBAL OFFICIALS

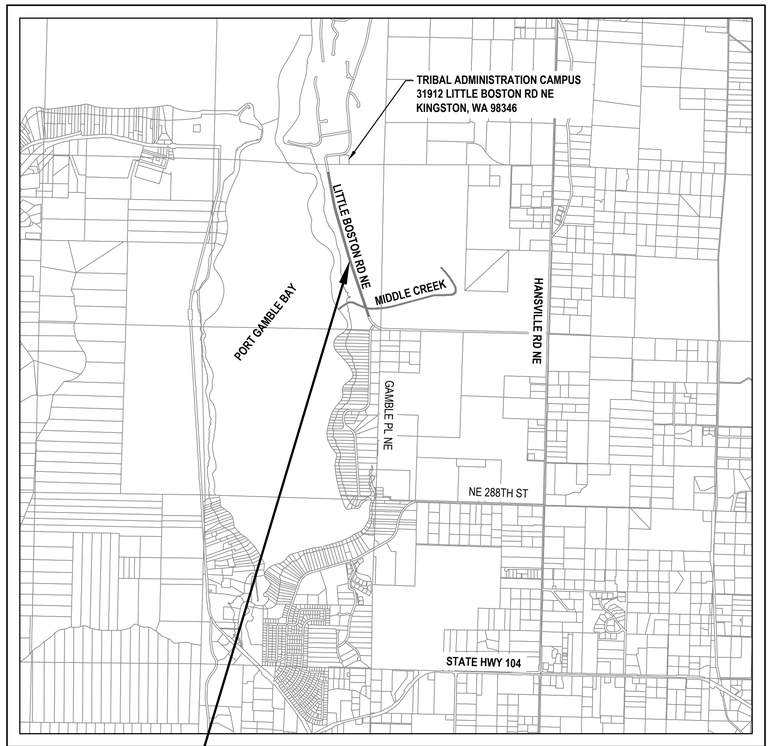
CHAIRMAN:	AMBER CALDERA
VICE CHAIRMAN:	CHRIS TOM
COUNCIL:	RENEE VEREGGE DONOVAN ASHWORTH MATTHEW IVES KYLE CARPENTER

PROJECT CONTACTS

NAME	AGENCY	PHONE
MIKE OREM	PORT GAMBLE S'KLALLAM TRIBE	360-297-6214
MARK COLE	OTAK	425-739-7964

UTILITY CONTACTS

UTILITY	NAME	AGENCY	PHONE
POWER	CHRISTIAN MILLER	PUGET SOUND ENERGY	360-536-8065
COMM.	RAYMOND JONES	LUMEN	360-626-0263
COMM.	MATT OROSZ	COMCAST	360-340-4989
WATER	MIKE OREM	PORT GAMBLE S'KLALLAM TRIBE	360-297-6214
SEWER	MIKE OREM	PORT GAMBLE S'KLALLAM TRIBE	360-297-6214



PROJECT LOCATION

VICINITY MAP
NOT TO SCALE

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9	2.02	TESC AND DEMOLITION PLAN
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THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025

YI HUA HO, P.E.

XREF_LIST
_OTAK22X34_ENGR

SYMBOL LEGEND

EXISTING	PROPOSED	DESCRIPTION
		COMMUNICATION RISER
		COMMUNICATION MANHOLE
		COMMUNICATION VAULT
		ELECTRICAL METER
		ELECTRICAL HANDHOLD
		POWER MANHOLE
		POWER VAULT
		POWER TRANSFORMER
		GAS VALVE
		GAS METER
		GAS VAULT
		SEWER MANHOLE
		CLEANOUT
		CATCH BASIN (TYPE 1)
		CATCH BASIN (TYPE 2)
		STORM DRAIN MANHOLE
		SUBSURFACE JUNCTION BOX
		SURFACE JUNCTION BOX
		PEDESTRIAN POLE
		TRAFFIC POLE
		TRAFFIC SIGNAL HEAD
		TRAFFIC SIGNAL CABINET
		STREET LIGHT OR UTILITY POLE W/ LIGHT
		UTILITY POLE
		GUY ANCHOR
		WATER METER
		WATER VALVE
		FIRE HYDRANT
		BOLLARD
		MAIL BOX
		SIGN
		TESTPIT
		MONITORING WELL
		SURVEY CONTROL POINT
		SURVEY MONUMENT
XXXXX		PROPERTY ADDRESS OR PARCEL NUMBER
		CONIFEROUS TREE
		DECIDUOUS TREE
		STUMP
		TREE REMOVAL
		STUMP REMOVAL
		STORM INLET PROTECTION
		PIPE INLET/OUTLET PROTECTION

LINE AND HATCHING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		RIGHT OF WAY CENTERLINE
		RIGHT OF WAY MARGIN
		PROPERTY LINE
X X	X X	CHAIN LINK FENCE
[] []	[] []	WOOD FENCE
		GUARDRAIL
W W		WATER LINE
SS		SEWER LINE (<12")
		SEWER LINE (>12")
SD		STORM DRAIN LINE (<12")
		STORM DRAIN LINE (>12")
P P		POWER LINE
OHL		AERIAL LINE
G G		GAS LINE
FO		FIBER OPTIC LINE
COM		COMMUNICATION LINE
// X		BARB WIRE FENCE
		WIRE FENCE
TV		TV LINE
		RAILING (GUARD/HAND)
		DRIVEWAY CUTS / HC RAMPS
		UNDERGROUND UTILITY STRUCTURES
		EDGE OF GRAVEL / DIRT
		INTERMEDIATE CONTOUR
100		INDEX CONTOUR
		EDGE OF WETLAND
		EDGE OF WATER
		DITCH/STREAM CENTERLINE
		WALL
		ROCK WALL
		CLEARING/GRUBBING LIMITS
		SAWCUT LINE
// //		SILT FENCE
	HVF	HIGH VISIBILITY FENCE
		WATTLE
		PIPE REMOVAL
o o		TREE PROTECTION
		HMA PAVEMENT (TRAIL/DRIVEWAY)
		FULL DEPTH ASPHALT PAVEMENT RECONSTRUCTION/DRIVEWAY APRON
		GRAVEL DRIVEWAY
		PAVEMENT REMOVAL

SEE APPLICABLE DISCIPLINE FOR ADDITIONAL LEGEND

ABBREVIATIONS

ABBREVIATION	NAME OR PHRASE
AP	ANGLE POINT
APPROX.	APPROXIMATE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BK.	BACK
BLDG	BUILDING
BOF	BOTTOM OF FOOTING
BOW	BOTTOM OF WALL
BP	BEGINNING POINT
BRG	BEARING
BVCS	BEGIN VERTICAL CURVE ELEVATION
BVCE	BEGIN VERTICAL CURVE STATION
CB	CATCH BASIN
C.G.	CENTER OF GRAVITY
C.I.P	CAST IN PLACE
CL	CENTERLINE
CLR.	CLEARANCE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUE OR CONTINUOUS
CPP	CORRUGATED PLASTIC PIPE
CPEP	CORRUGATED POLYETHYLENE PIPE
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CTRL	CONTROL
DI	DUCTILE IRON
D/S	DOWNSTREAM
DIAM.	DIAMETER
DWG	DRAWING
DWY	DRIVEWAY
E	EAST
EA	EACH
ELEV. OR EL.	ELEVATION
EMBED.	EMBEDMENT
EP	ENDING POINT
ESMT	EASEMENT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EXIST.	EXISTING
EXP.	EXPANSION
FD	FOUND
FG	FINISH GRADE
FIG.	FIGURE
FL	FLOW LINE (ELEVATION) OR FLANGE
FM	FORCE MAIN
FOC	FACE OF CURB
FT	FOOT OR FEET
FTG.	FOOTING
GALV.	GALVANIZED
G.E. OR GR EL	GRATE ELEVATION
GIR.	GIRDER
GRVL	GRAVEL
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORZ.	HORIZONTAL
HP	HIGH PRESSURE OR HIGH POINT
HT.	HEIGHT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
JT.	JOINT
JUT	JOINT UTILITY TRENCH
LBS.	POUNDS
LF	LINEAR FEET
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX.	MAXIMUM
MH	MANHOLE
MHW	MEAN HIGH WATER
MHHW	MEAN HIGH HIGH WATER
MIC	MONUMENT IN CASE
MIN.	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER

ABBREVIATION	NAME OR PHRASE
PAV'T	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
P.E.	PLAIN END OR POLYETHYLENE
PI	POINT OF INTERSECTION
PP	POLYPROPYLENE
P	PROPERTY OR PLATE
PRC	POINT OF REVERSE CURVE
PROP.	PROPOSED
PSE	PUGET SOUND ENERGY
PSI	POUND PER SQUARE INCH
PT	POINT OF TANGENCY OR POINT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS
RCC	REDMOND CENTRAL CONNECTOR
REF.	REFERENCE
REINF.	REINFORCED
RGS	RIGID GALVANIZED STEEL
RJ	RESTRAINED JOINT
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SOUTH
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SE	SOUTHEAST
SHT	SHEET
SPA.	SPACE OR SPACING
SPEC.	SPECIFICATIONS
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA.	STATION
STD	STANDARD
STIRR.	STIRRUPS
SW	SOUTHWEST
SYMM.	SYMMETRICAL
TEL	TELEPHONE
TEMP.	TEMPORARY
TESC	TEMP. EROSION & SEDIMENT CONTROL
TOC	TOP OF CURB
TOW	TOP OF WALL
TYP.	TYPICAL
U/S	UPSTREAM
VERT.	VERTICAL
W	WEST
W/	WITH
WS	WATER SURFACE
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, OR LOCAL LAWS, ORDINANCES, AND REGULATIONS THAT AFFECT WORK UNDER THE CONTRACT. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. AN APPROVED SET OF CONSTRUCTION PLANS AND SPECIFICATIONS, INCLUDING ANY ADDENDAS AND CHANGE ORDERS, FOR ALL WORK SHALL BE KEPT ON THE CONSTRUCTION SITE AT ALL TIMES.
3. THE CONTRACTOR SHALL VERIFY ALL EXISTING DATA SHOWN IN THESE DOCUMENTS ARE AS INDICATED IN THE PLANS AND SPECIFICATIONS AND NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED FEATURES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OF DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.
5. KEEP STREETS CLEAN AT ALL TIMES. FLUSHING STREETS SHALL NOT BE ALLOWED. STREETS SHALL BE SWEPT.
6. MAINTAIN TESC MEASURES IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND KITSAP COUNTY REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY S'KLALLAM TRIBE CONSTRUCTION INSPECTOR DEPENDING ON SITE AND WEATHER CONDITIONS OR WHEN WORK IS STOPPED OR COMPLETED IN AN AREA. IF THE INSPECTOR REQUIRES ADDITIONAL EROSION CONTROL MEASURES TO BE INSTALLED BASED ON NOTICEABLE EROSION CONCERNS, THE ADDITIONAL WORK SHALL BE PAID BY THE UNIT BID PRICE.
7. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE AND APPROVED BY THE PGST.
8. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFOR BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT AND COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO ASSURE AND INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND THE FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. UTILITIES WHICH ARE NOT ABANDONED OR REMOVED SHALL BE PROTECTED, SUPPORTED, OR MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATIONS SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE OWNER AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
9. ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2023 WSDOT SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND KITSAP COUNTY PUBLIC WORKS STANDARDS, KITSAP PUD STANDARDS, AND PGST STANDARDS TOGETHER WITH THESE CONTRACT DOCUMENTS UNLESS OTHERWISE APPROVED SPECIFICALLY BY THE ENGINEER.

SUGGESTED CONSTRUCTION SEQUENCE

PROPOSED CONSTRUCTION SEQUENCING AND IDENTIFICATION OF WORK ELEMENTS ARE PRESENTED AS A GUIDE AND DOES NOT REFLECT ALL ITEMS OF WORK NECESSARY TO COMPLETE PROJECT. THE CONTRACTOR, IN ADHERING TO ALL THE RESTRICTIONS, CONTROLS, AND REQUIREMENTS INDICATED IN THESE PLAN AND SPECIFICATIONS, SHALL PREPARE AND SUBMIT A FINAL CONSTRUCTION SEQUENCING PLAN FOR APPROVAL BY THE ENGINEER. (SUBSIDIARY TO PROJECT TEMPORARY TRAFFIC CONTROL)

SITE PREPARATION/TESC/DEMOLITION

1. ATTEND PRE-CONSTRUCTION MEETING WITH S'KLALLAM TRIBE.
2. INSTALL PERIMETER PROTECTION (HIGH VISIBILITY FENCES, ETC.)
3. CLEAR AND GRUB THE SITE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
   - INSTALL PROTECTION OF TREES AND FEATURES NOT INDICATED FOR REMOVAL
   - RELOCATE EXISTING SHRUBS/TREE WHERE INDICATED ON PLANS
   - LOG AND REMOVE EXISTING TREES WHERE INDICATED ON PLANS
4. RELOCATE/ADJUST TESC MEASURES, OR INSTALL NEW MEASURES AS SITE CONDITIONS CHANGE.

GRADING AND UTILITIES

1. PERFORM ROUGH GRADING.
2. INSTALL DRIVEWAY CULVERTS (OR UTILIZE EXISTING CULVERTS) AND GRADE THE ROADSIDE DITCH, MAINTAIN DRAINAGE PATHWAY AND DISCHARGE TO EXISTING OUTFALLS. PROVIDE DEWATERING IF PROPER DRAINAGE PATH CANNOT BE MAINTAINED PRIOR TO WET WEATHER.
3. INSTALL STORM DRAINAGE SYSTEM.
4. RELOCATE WATER SERVICES/METERS.
5. RELOCATE POWER POLE AND SERVICE.

STRUCTURAL

1. CONSTRUCT BRIDGES AND RETAINING WALLS.

PAVING

1. FINAL GRADING AND SUBGRADE PREPARATION.
2. CONSTRUCT CURB AND GUTTER.
3. CONSTRUCT SIDEWALK, RAMPS, AND DRIVEWAY ENTRANCE.
4. ADJUST UTILITY COVERS TO FINISHED GRADE.
5. CONSTRUCT TRAIL PAVEMENT AND SHOULDER,
6. ROADWAY AND DRIVEWAY RESTORATION.
7. INSTALL PAVEMENT MARKING, SIGNAGE, AND SITE FURNISHINGS.

RESTORATION

1. PLANTING, WETLAND/STREAM BUFFER RESTORATION.
2. PROPERTY RESTORATION (FENCING, MAILBOX SUPPORT, DRIVEWAY SAFETY POSTS, ETC.)
3. ROADSIDE CLEANUP.

811 Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
LEGEND, ABBREVIATIONS, AND GENERAL NOTES

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

1.02
DRAWING NO.

SHEET 2 OF 74

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Plotted: Sep 26, 2025 – 4:44pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\1.02.dwg Layout Name: 1.02

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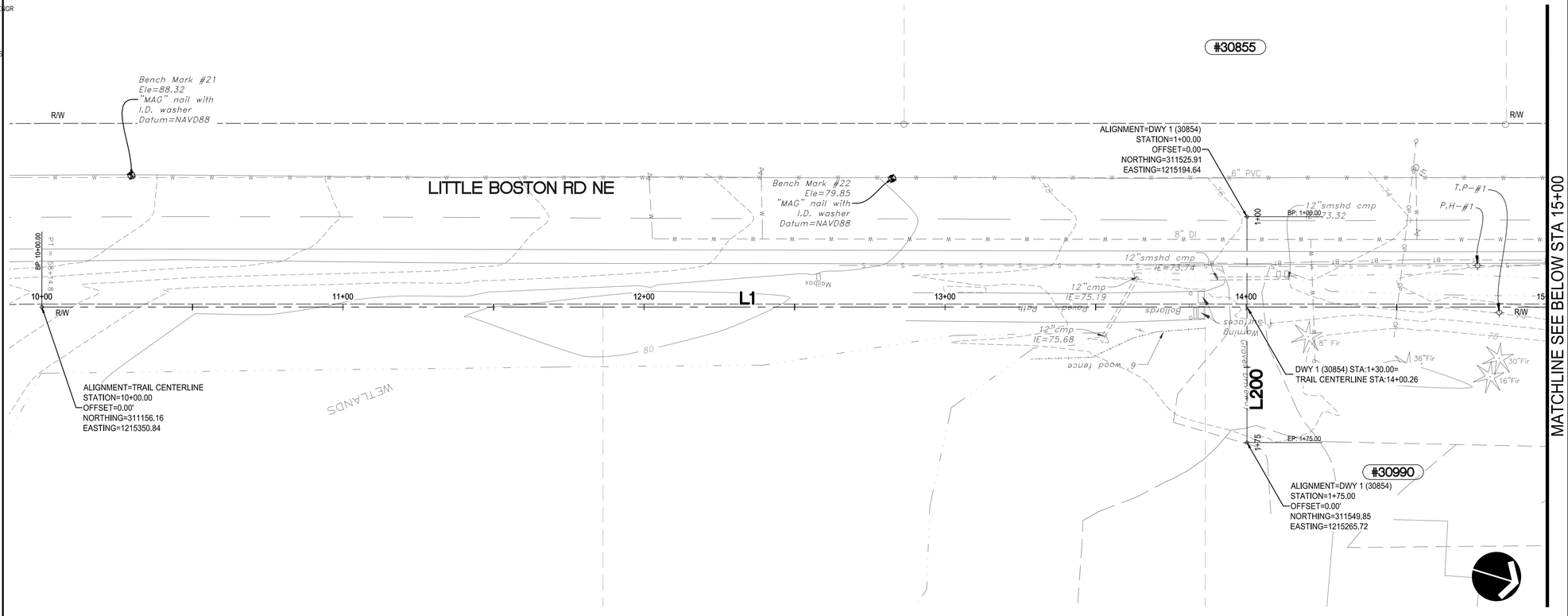

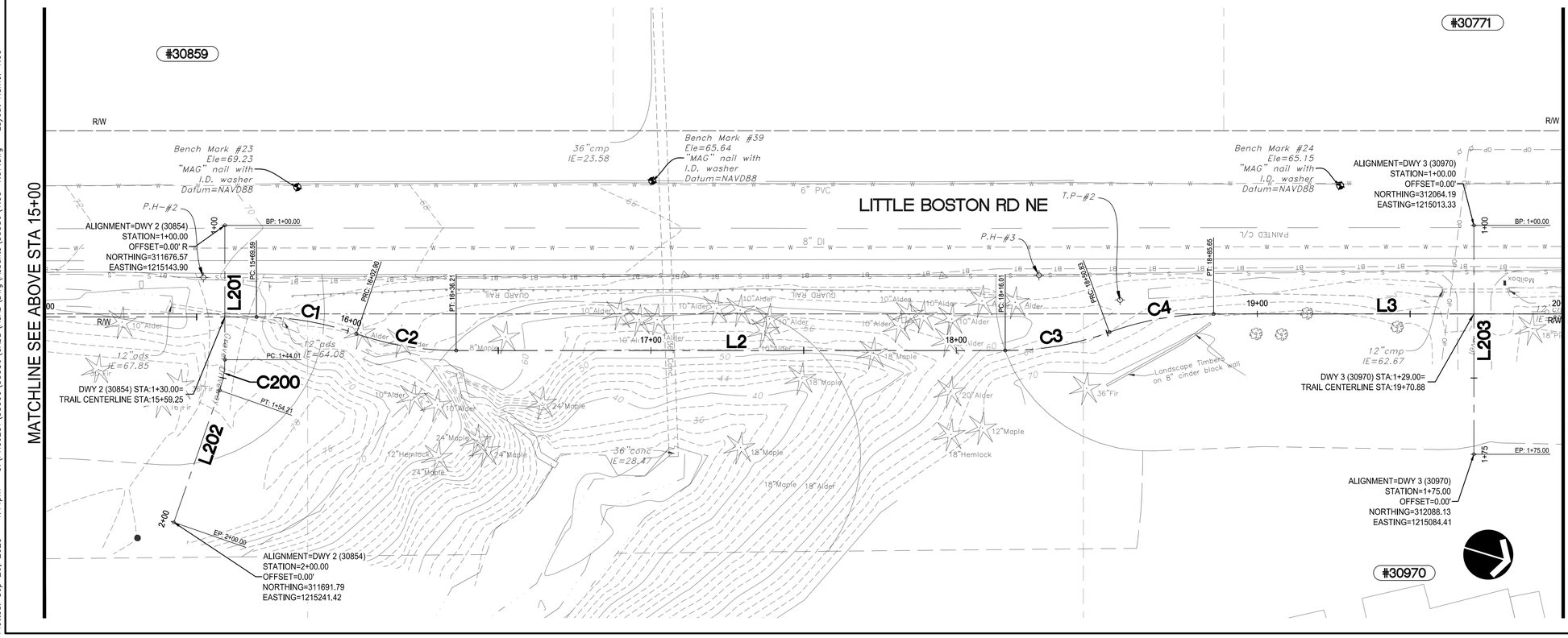

SEE SHEET 1.07 FOR SURVEY NOTES AND CONTROL POINTS TABLE

DWY 1 (30854)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L200	1+00.00	75.00'		N71°23'06"E	

DWY 2 (30854)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L201	1+00.00	44.01'		N71°23'06"E	
C200	1+44.01	10.19'	30.50'	N80°57'39"E	19°09'06"
L202	1+54.21	45.80'		S89°27'48"E	

DWY 3 (30970)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L203	1+00.00	75.00'		N71°23'06"E	

EXSITING CONDITION NOTES:

1. TOPOGRAPHIC SURVEY AND BASEMAPPING PREPARED BY AES CONSULTANTS, INC., DATED FEB. 02, 2022.
2. STREAM AND WETLAND DELINEATION PERFORMED BY OTAK, DATED NOV. 2021.
3. THE ONLY UNDERGROUND UTILITIES SHOWN WERE THOSE MARKED BY PORT GAMBLE S'KLALLAM TRIBE. OTHER UNDERGROUND UTILITIES MAY EXIST. THE WATER LINE WAS NOT LOCATED, OTHER THAN SURFACE EVIDENCE.
4. LOT BOUNDARIES & RIGHT-OF-WAY SHOWN ARE PER THE HOME & CLUSTER SITE LOT LAYOUT BY ROATS ENGINEERING, DATED JULY 6TH 1972.

T.P- #___= GEOTECHNICAL TEST PIT LOCATION
(REFER TO SPECIFICATION APPENDIX FOR DATA)

P.H- #___= EXISTING SEWER FORCE MAIN POTHOLING LOCATION (REFER TO SPECIFICATION APPENDIX FOR DATA)

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
EXISTING CONDITIONS/SURVEY CONTROL PLAN

TITLE

20 0 20 40
SCALE IN FEET

Know what's below. Call before you dig.

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
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33386
PROJECT NUMBER

1.03
DRAWING NO.

SHEET 3 OF 74

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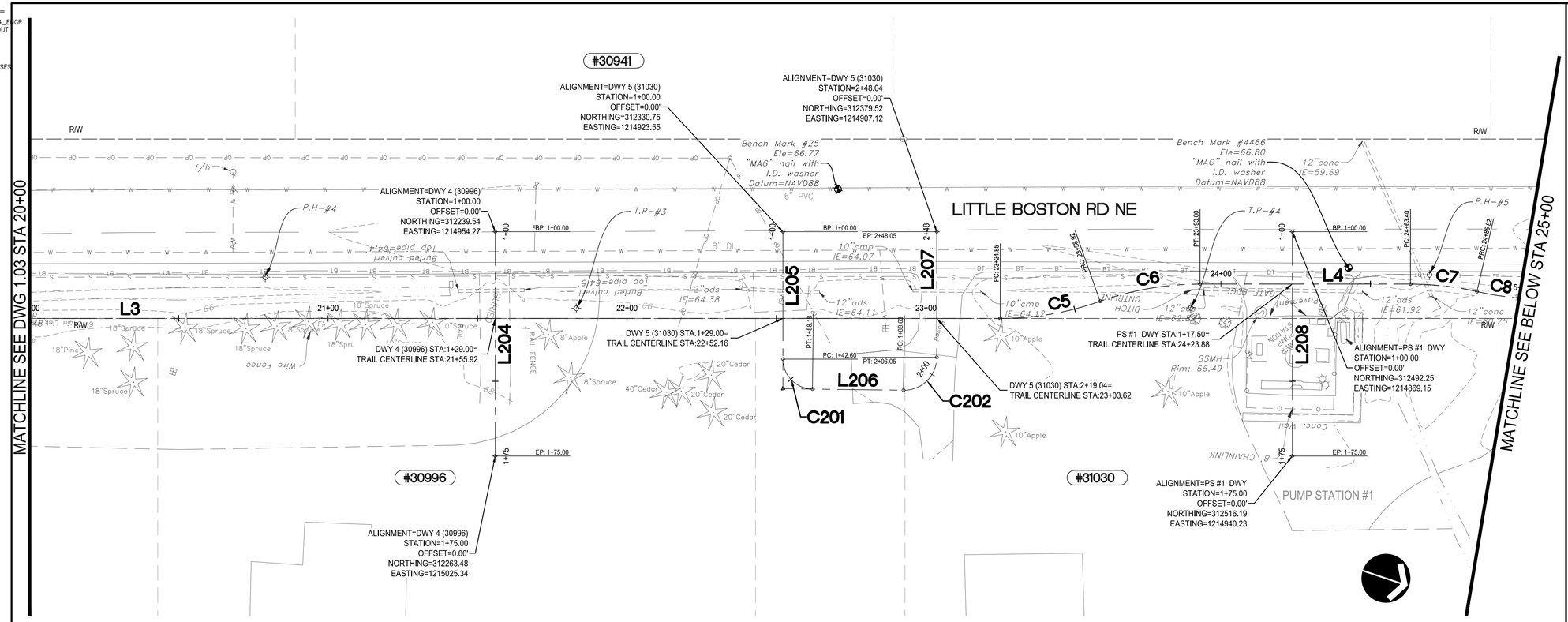

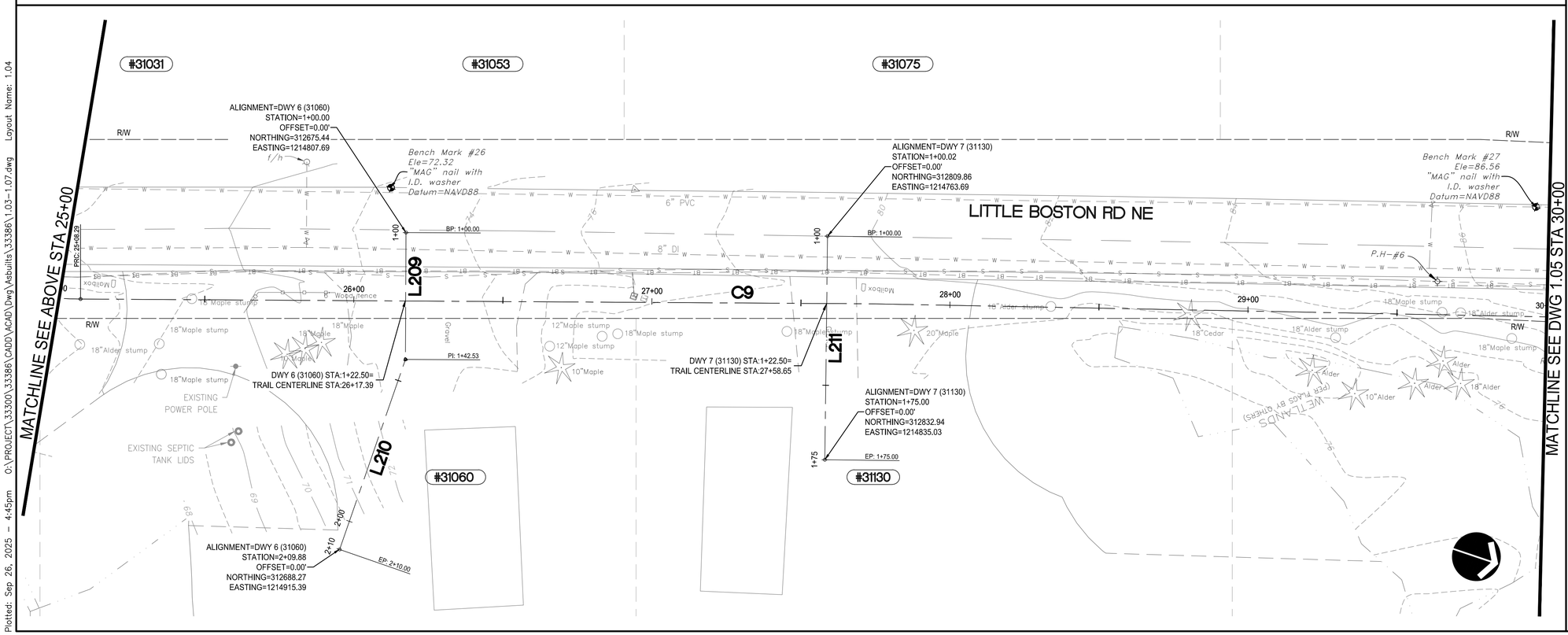

SEE SHEET 1.07 FOR SURVEY NOTES AND CONTROL POINTS TABLE

DWY 4 (30996)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L204	1+00.00	75.00'		N71°23'06"E	

DWY 5 (31030)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L205	1+00.00	42.60'		N71°23'06"E	
C201	1+42.60	15.58'	10.00'	N26°45'37"E	89°14'58"
L206	1+58.18	30.45'		N17°51'52"W	
C202	1+88.63	17.42'	11.00'	N63°14'23"W	90°45'02"
L207	2+06.05	42.00'		S71°23'06"W	

PS #1 DWY					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L208	1+00.00	75.00'		N71°23'07"E	

DWY 6 (31060)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L209	1+00.00	42.53'		N71°38'08"E	
L210	1+42.53	67.46'		S89°30'42"E	

DWY 7 (31130)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L211	1+00.00	75.00'		N72°04'04"E	

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P.H-#___= EXISTING SEWER FORCE MAIN POTHOLING LOCATION (REFER TO SPECIFICATION APPENDIX FOR DATA)

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
EXISTING CONDITIONS/SURVEY CONTROL PLAN

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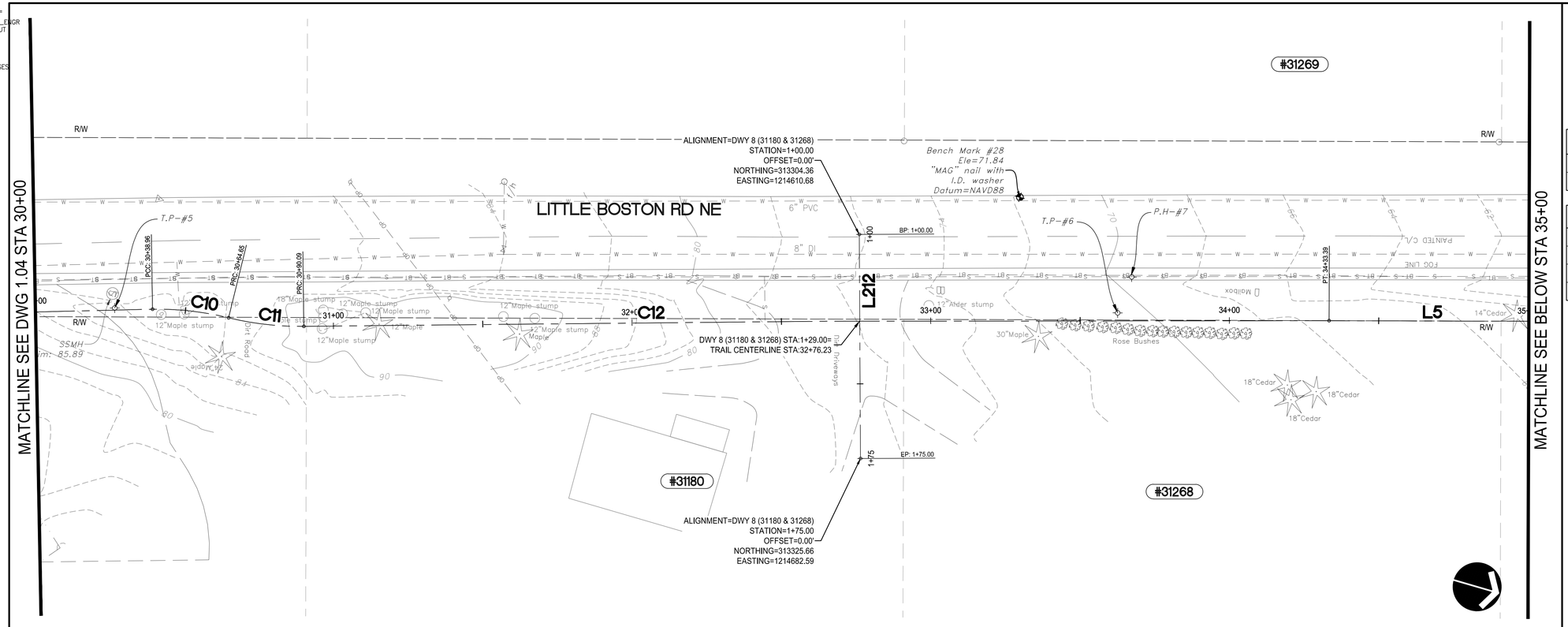

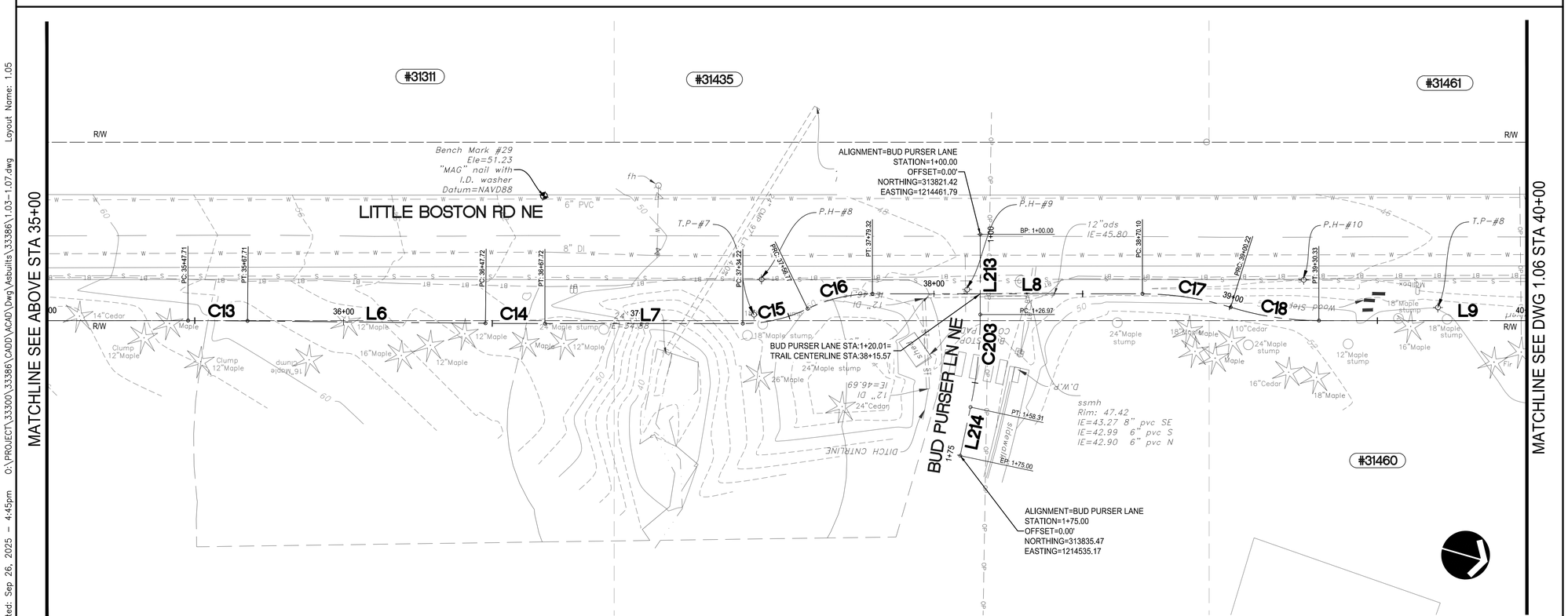

SEE SHEET 1.07 FOR SURVEY NOTES AND CONTROL POINTS TABLE

DWY 8 (31180 & 31268)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L212	1+00.00	75.00'		N73°30'14"E	

BUD PURSER LANE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L213	1+00.00	26.97'		N74°00'06"E	
C203	1+26.97	31.35'	150.00'	N79°59'19"E	11°58'26"
L214	1+58.31	16.69'		N85°58'32"E	

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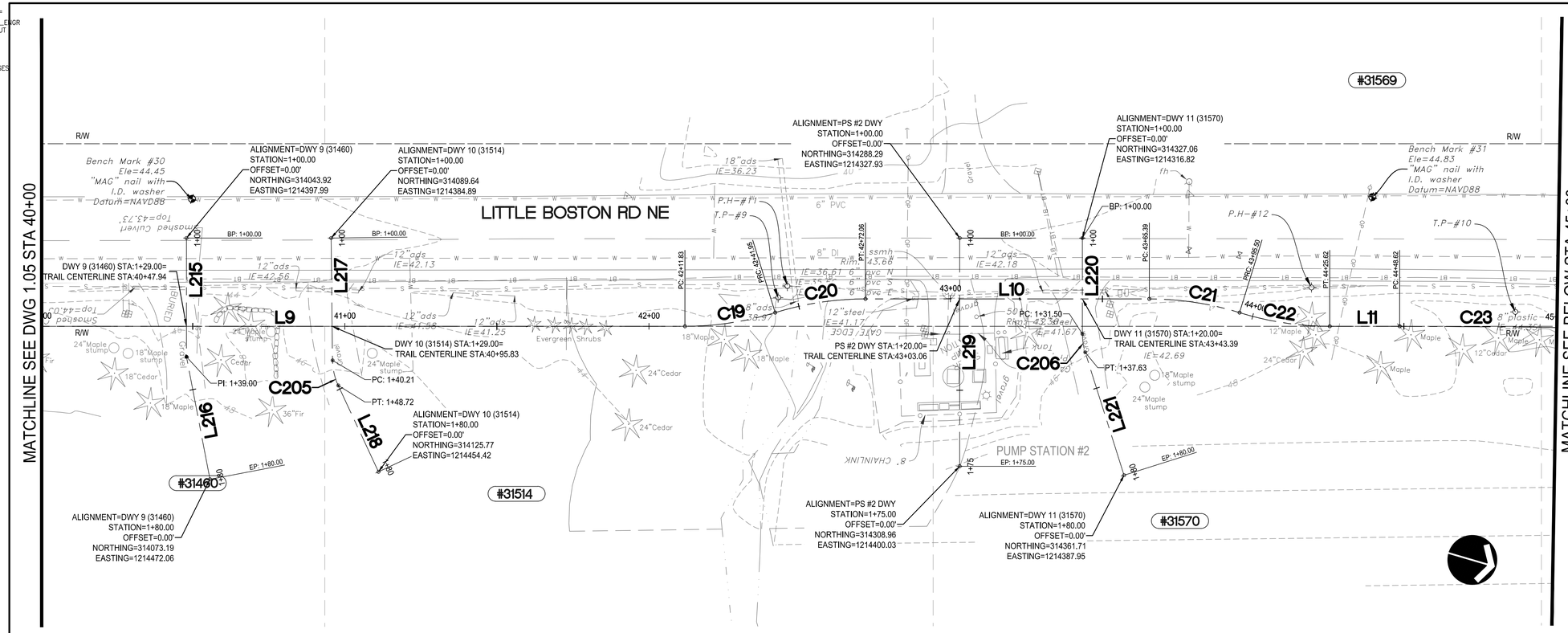

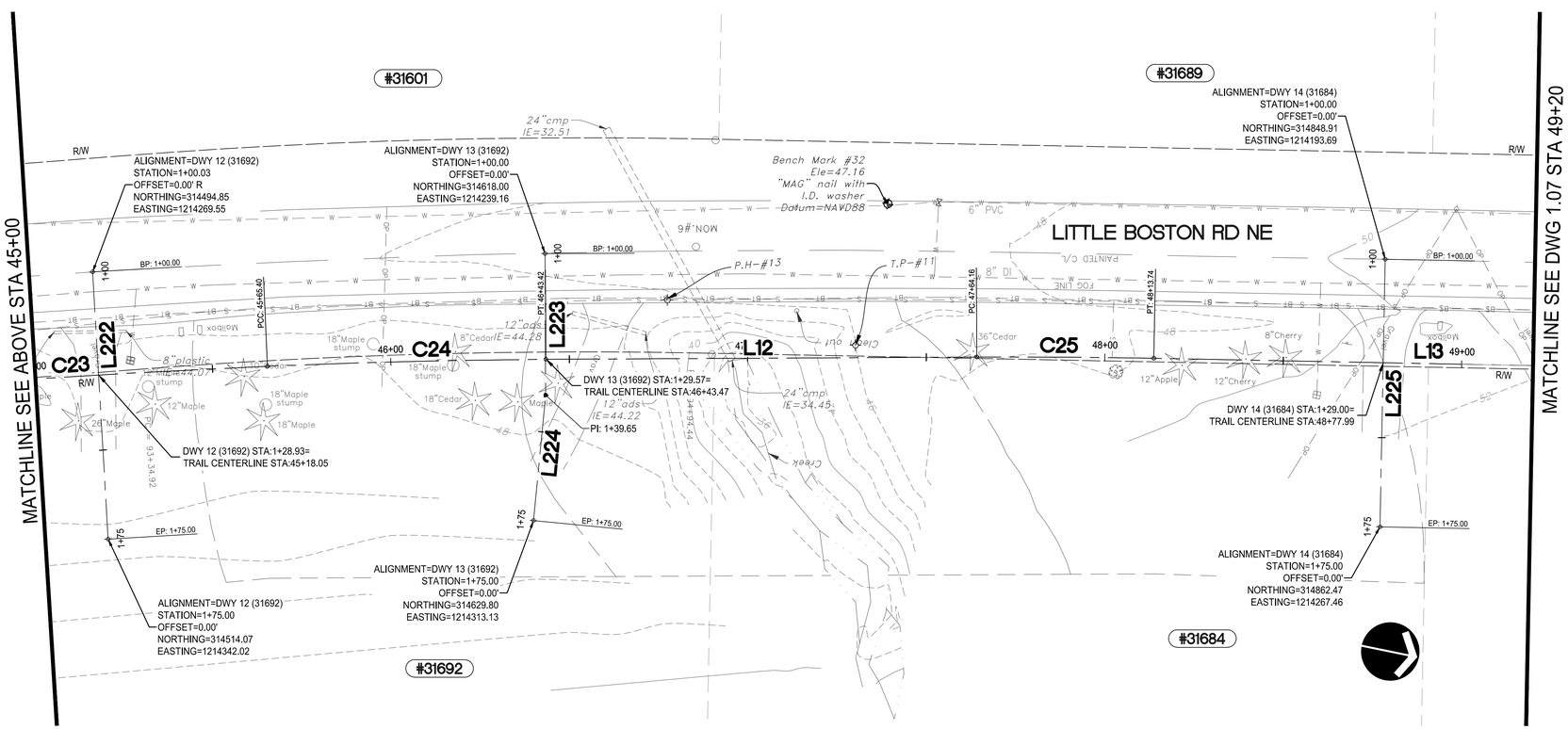

SEE SHEET 1.07 FOR SURVEY NOTES AND CONTROL POINTS TABLE

DWY 9 (31460)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L215	1+00.00	39.00'		N74°00'06"E	
L216	1+39.00	41.00'		N63°08'45"E	

DWY 10 (31514)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L217	1+00.00	40.21'		N73°21'11"E	
C205	1+40.21	8.51'	20.00'	N61°09'51"E	24°22'40"
L218	1+48.72	31.28'		N48°58'31"E	

PS #2 DWY					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L219	1+00.00	75.00'		N74°00'06"E	

DWY 11 (31570)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L220	1+00.00	31.50'		N74°00'06"E	
C206	1+31.50	6.12'	20.00'	N65°13'52"E	17°32'29"
L221	1+37.63	42.37'		N56°27'37"E	

DWY 12 (31692)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L222	1+00.00	75.00'		N75°08'52"E	

DWY 13 (31692)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L223	1+00.00	39.65'		N78°13'34"E	
L224	1+39.65	35.35'		N83°58'39"E	

DWY 14 (31684)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L225	1+00.00	75.00'		N79°35'06"E	

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LITTLE BOSTON ROAD PEDESTRIAN TRAIL
EXISTING CONDITIONS/SURVEY CONTROL PLAN

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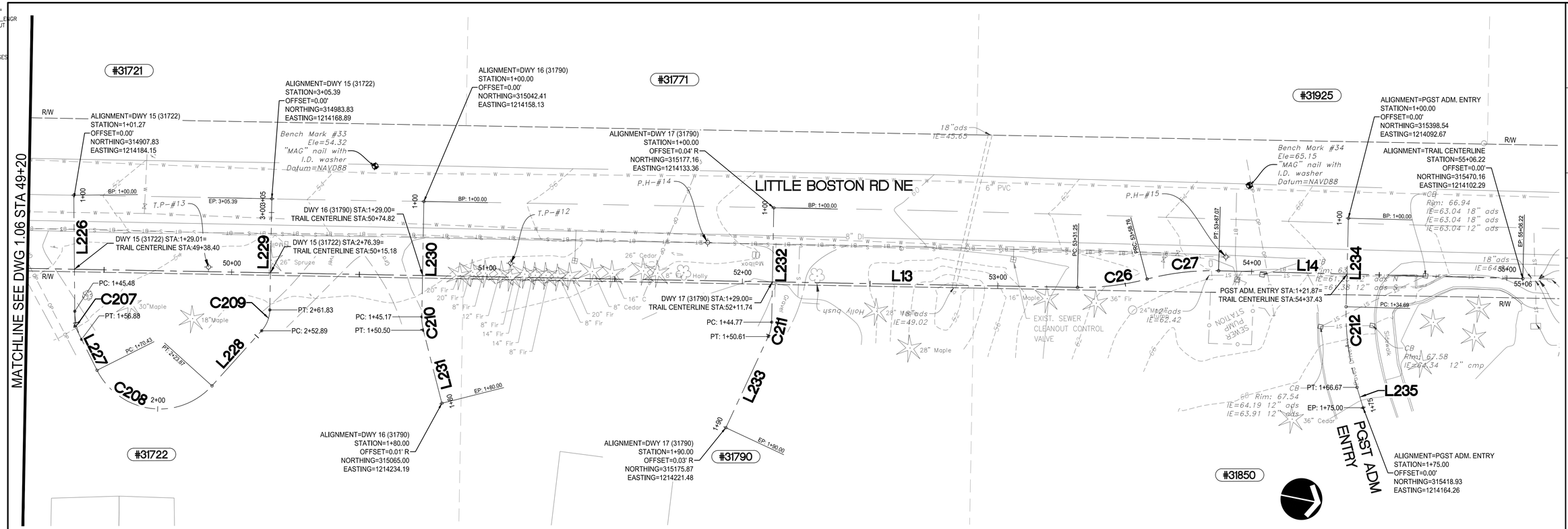

TRAIL CENTERLINE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L1	10+00.00	569.60'		N18°36'54"W	
C1	15+69.59	33.31'	100.00'	N9°04'20"W	19°05'07"
C2	16+02.90	33.31'	100.00'	N9°04'17"W	19°05'00"
L2	16+36.21	179.80'		N18°36'47"W	
C3	18+16.01	34.82'	100.00'	N28°35'17"W	19°57'02"
C4	18+50.83	34.82'	100.00'	N28°35'21"W	19°56'54"
L3	18+85.65	439.20'		N18°36'54"W	
C5	23+24.85	34.08'	100.00'	N28°22'38"W	19°31'27"
C6	23+58.92	34.08'	100.00'	N28°22'37"W	19°31'28"
L4	23+93.00	70.40'		N18°36'53"W	
C7	24+63.40	22.41'	100.00'	N12°11'36"W	12°50'34"
C8	24+85.82	22.48'	100.00'	N12°12'40"W	12°52'42"
C9	25+08.29	530.66'	19977.50'	N17°53'21"W	1°31'19"
C10	30+38.96	25.69'	100.00'	N9°46'06"W	14°43'13"
C11	30+64.65	25.44'	100.00'	N9°41'45"W	14°34'31"
C12	30+90.09	343.30'	19971.00'	N16°29'27"W	0°59'06"
L5	34+33.39	114.32'		N15°59'54"W	
C13	35+47.71	20.00'	2000.00'	N15°42'43"W	0°34'23"
L6	35+67.71	80.01'		N15°25'31"W	
C14	36+47.72	20.00'	2000.00'	N15°42'43"W	0°34'23"
L7	36+67.72	66.50'		N15°59'54"W	

TRAIL CENTERLINE					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
C15	37+34.22	22.55'	50.00'	N28°55'09"W	25°50'31"
C16	37+56.77	22.55'	50.00'	N28°55'09"W	25°50'31"
L8	37+79.32	90.78'		N15°59'54"W	
C17	38+70.10	30.11'	100.00'	N7°22'17"W	17°15'14"
C18	39+00.22	30.11'	100.00'	N7°22'17"W	17°15'14"
L9	39+30.33	281.50'		N15°59'54"W	
C19	42+11.83	30.11'	100.00'	N24°37'31"W	17°15'14"
C20	42+41.95	30.11'	100.00'	N24°37'31"W	17°15'14"
L10	42+72.06	93.33'		N15°59'54"W	
C21	43+65.39	30.11'	100.00'	N7°22'17"W	17°15'14"
C22	43+95.50	30.11'	100.00'	N7°22'17"W	17°15'14"
L11	44+25.62	23.00'		N15°59'54"W	
C23	44+48.62	116.79'	3471.00'	N15°02'04"W	1°55'40"
C24	45+65.40	78.02'	2000.00'	N12°57'11"W	2°14'06"
L12	46+43.42	120.73'		N11°50'08"W	
C25	47+64.16	49.58'	2000.00'	N11°07'31"W	1°25'14"
L13	48+13.74	517.51'		N10°24'54"W	
C26	53+31.25	27.52'	100.00'	N18°17'54"W	15°46'00"
C27	53+58.76	28.30'	100.00'	N18°04'26"W	16°12'55"
L14	53+87.07	119.16'		N9°57'59"W	

DWY 15 (31722)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L226	1+00.00	45.48'		N78°03'57"E	
C207	1+45.48	11.41'	25.00'	N64°59'38"E	26°08'36"
L227	1+56.88	13.54'		N51°55'20"E	
C208	1+70.43	53.45'	27.50'	N3°45'17"W	111°21'14"
L228	2+23.87	29.02'		N59°25'53"W	
C209	2+52.89	8.94'	12.50'	N79°55'54"W	41°00'01"
L229	2+61.83	43.56'		S79°34'06"W	

DWY 16 (31790)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L230	1+00.00	45.17'		N79°35'06"E	
C210	1+45.17	5.33'	20.00'	N71°56'58"E	15°16'16"
L231	1+50.50	29.49'		N64°18'50"E	

DWY 17 (31790)					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L232	1+00.00	44.77'		N79°38'06"E	
C211	1+44.77	5.83'	14.00'	S88°25'45"E	23°52'17"
L233	1+50.61	39.39'		S76°29'37"E	

PGST ADM. ENTRY					
NUMBER	STATION	LENGTH	RADIUS	BEARING	DELTA
L234	1+00.00	34.69'		N80°02'03"E	
C212	1+34.69	31.98'	100.00'	N70°52'21"E	18°19'24"
L235	1+66.67	8.33'		N61°42'39"E	

SURVEY CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
21	311170.36	1215299.94	88.32	
22	311410.17	1215220.27	79.85	
23	311695.07	1215124.47	69.23	
24	312018.53	1215014.99	65.15	
25	312343.65	1214904.23	66.77	
26	312665.86	1214795.05	72.32	
27	313031.97	1214678.52	86.56	
28	313352.56	1214583.76	71.84	
29	313676.85	1214489.79	51.23	
30	314042.11	1214385.15	44.45	
31	314414.98	1214277.62	44.83	
32	314709.32	1214206.30	47.16	
33	315020.95	1214148.37	54.32	
34	315357.99	1214087.76	65.15	

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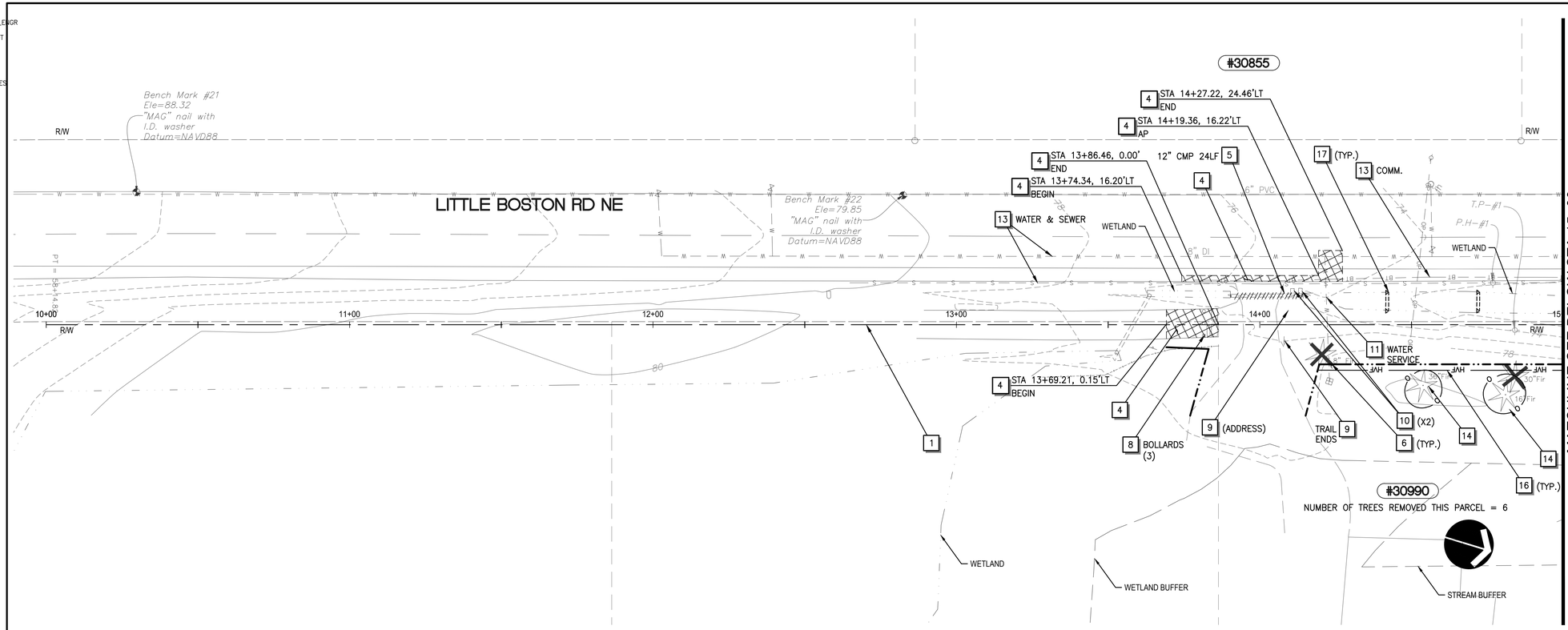

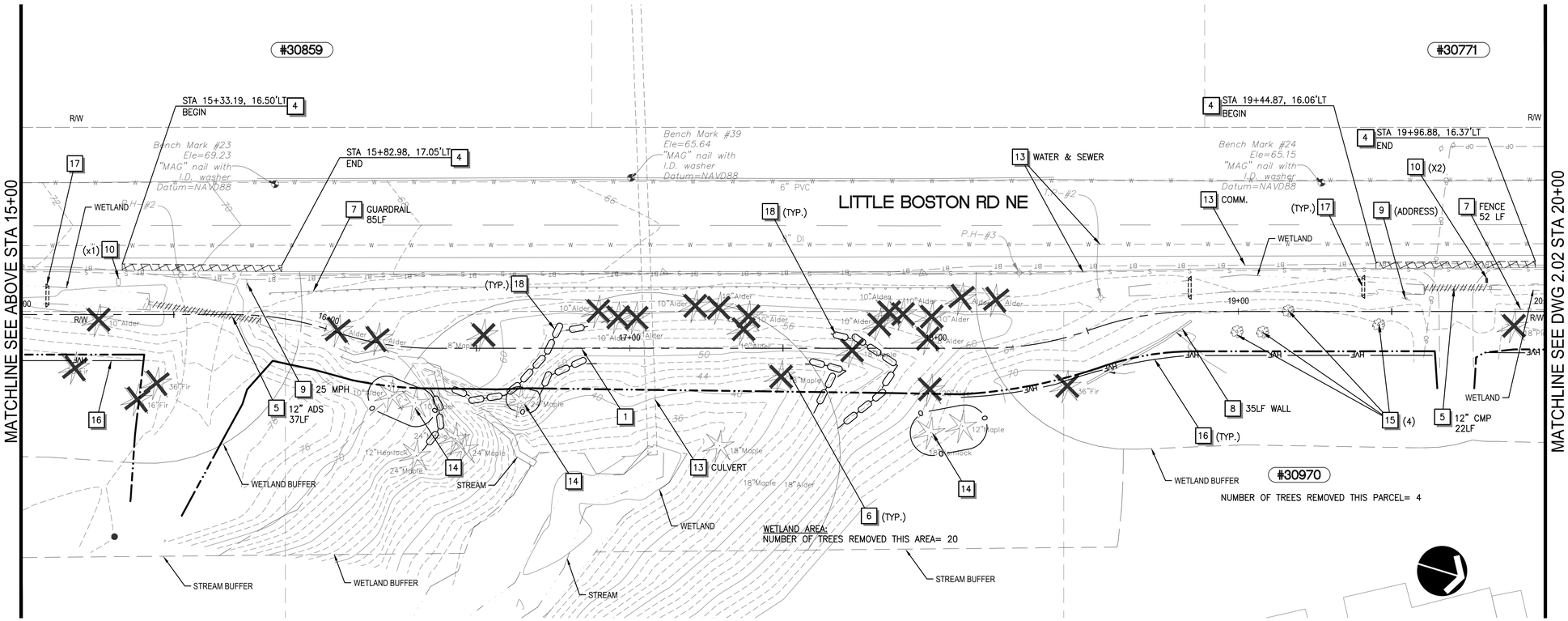

TESC AND DEMOLITION NOTES

1. CONSTRUCTION CENTERLINE, SEE DWGS 1.03–1.07 FOR HORIZONTAL CONTROL.
2. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I–40.20–00.
3. REMOVE EXISTING CEMENT CONCRETE SIDEWALK, CURB AND/OR GUTTER AS REQUIRED FOR INSTALLATION OF IMPROVEMENTS. SIDEWALK, CURB AND/OR GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE IMPROVEMENTS.
4. SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT, LIMITS PER PLAN. EMERGENCY AND PROPERTY ACCESS SHALL BE MAINTAINED AT ALL TIMES.
5. REMOVE EXISTING STORM DRAIN, LIMITS PER PLAN.
6. REMOVE EXISTING TREE OR STUMP.
7. REMOVE EXISTING FENCE, GUARD RAIL, OR BARRIER, LIMITS PER PLAN.
8. REMOVE EXISTING FEATURE AS INDICATED.
9. EXISTING SIGN TO BE REMOVED OR RELOCATED, SEE 5–SERIES PLANS FOR DETAILS.
10. EXISTING MAILBOX TO BE RELOCATED. SEE 3–SERIES PLANS FOR NEW LOCATION. MAINTAIN ACCESS TO MAILBOX WITH NO INTERRUPTION IN MAIL SERVICE.
11. EXISTING UTILITY TO BE RELOCATED/ADJUSTED. SEE 3–SERIES PLANS FOR DETAILS.
12. REMOVE EXISTING PAVEMENT MARKING.
13. EXISTING UTILITY/FEATURES TO REMAIN, PROTECT DURING CONSTRUCTION.
14. EXISTING TREE(S)/SHRUB(S) TO REMAIN. PROTECT DURING CONSTRUCTION PER DETAIL ON DWG 2.05.
15. RELOCATE EXISTING SHRUB OR FRUIT TREE (SEE SITE 6–SERIES PLANS FOR LOCATIONS).
16. INSTALL HIGH VISIBILITY FENCE PER WSDOT STD PLAN I–10.10–01.
17. INSTALL CHECK DAMS ON CHANNELS PER WSDOT STD PLAN I–50.20–02.
18. INSTALL WATTLE PER WSDOT STD PLAN I–30.30–02.
19. INSTALL SILT FENCE AT CULVERT ENDS PER WSDOT STD PLAN I–30.20–00.

GENERAL NOTES

1. TESC MEASURES SHOWN ARE MINIMUM REQUIREMENTS FOR EXISTING CONDITION. CONTRACTOR TO ADJUST TESC MEASURE PLACEMENT AS SITE CONDITION CHANGES.
2. STORM DRAIN INLET PROTECTION SHALL BE PROVIDED AT ALL EXISTING AND PROPOSED INLETS AND MAINTAINED FOR THE DURATION OF CONSTRUCTION OPERATIONS. PROTECTION MEASURES FOR PROPOSED INLETS ARE NOT SHOWN FOR CLARIFICATION.
3. CHECK DAMS SHALL BE PROVIDED AT EXISTING AND PROPOSED ROADSIDE DITCH.
4. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHIN THE WORKING LIMITS OF THE PROJECT NOT IDENTIFIED FOR REMOVAL WITHOUT APPROVAL FROM THE ENGINEER.

LEGEND

- SAWCUT
- PAVEMENT, SIDEWALK AND CURB REMOVAL
- STORM DRAIN REMOVAL
- TREE PROTECTION
- STORM DRAIN INLET PROTECTION
- TREE REMOVAL
- STUMP REMOVAL
- CLEARING AND GRUBBING
- HIGH VISIBILITY FENCE
- SILT FENCE
- CHECK DAM
- WATTLE

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TESC AND DEMOLITION PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

2.01
DRAWING NO.

SHEET 8 OF 74

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Plotted: Sep. 29, 2025 – 11:22am O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\2.01–2.05.dwg Layout Name: 2.01

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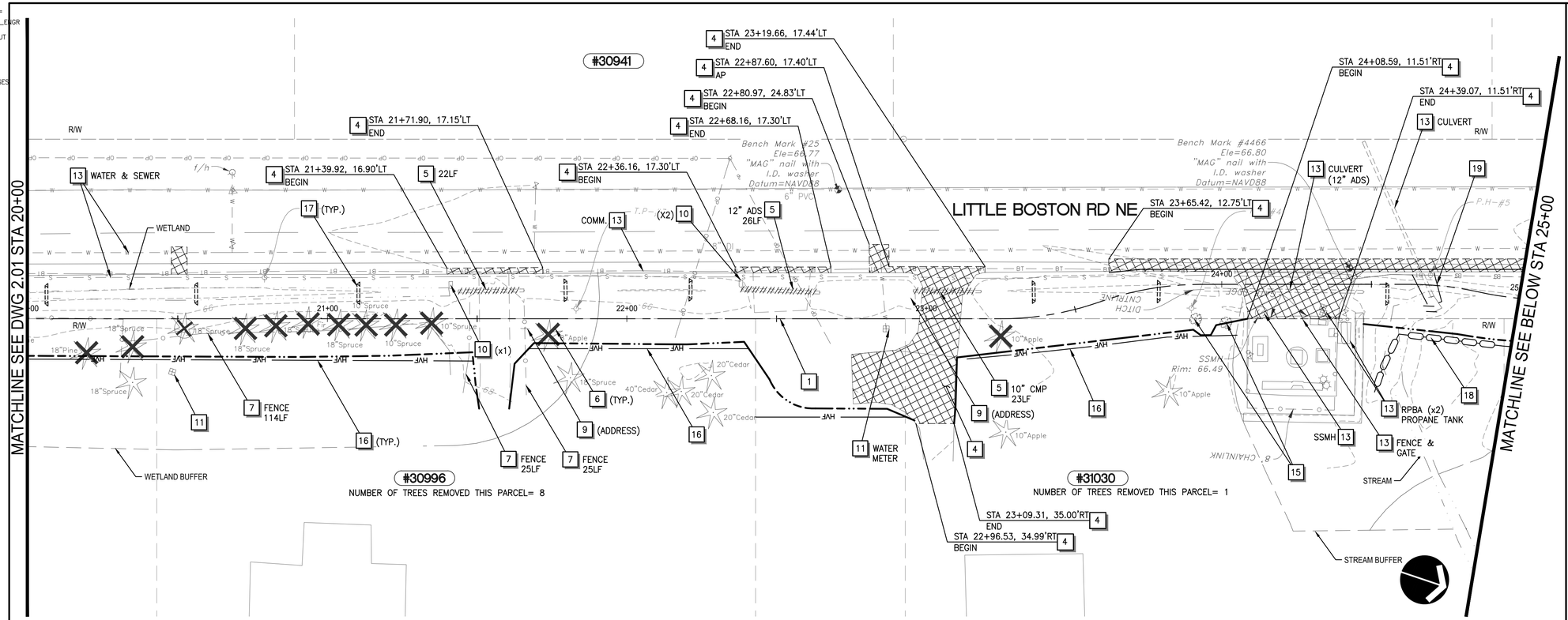

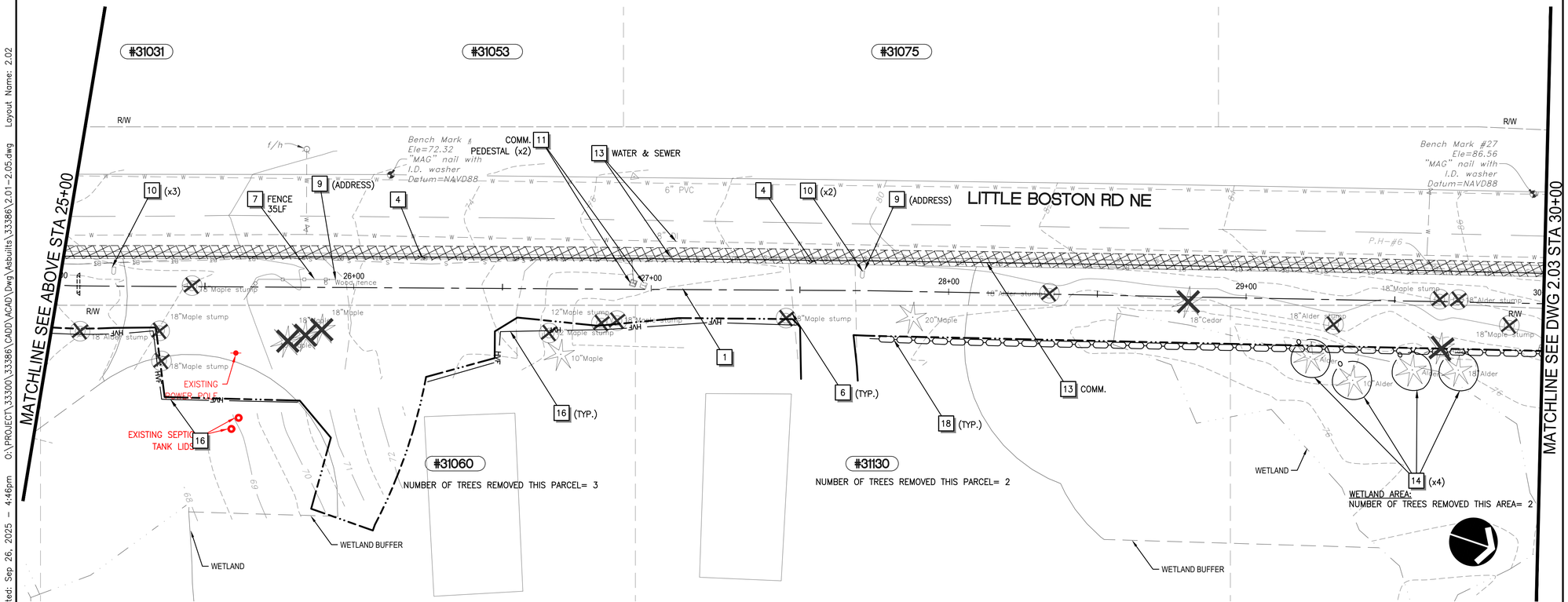

TESC AND DEMOLITION NOTES

1. CONSTRUCTION CENTERLINE, SEE DWGS 1.03–1.07 FOR HORIZONTAL CONTROL.
2. INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I–40.20–00.
3. REMOVE EXISTING CEMENT CONCRETE SIDEWALK, CURB AND/OR GUTTER AS REQUIRED FOR INSTALLATION OF IMPROVEMENTS. SIDEWALK, CURB AND/OR GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE IMPROVEMENTS.
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- CLEARING AND GRUBBING
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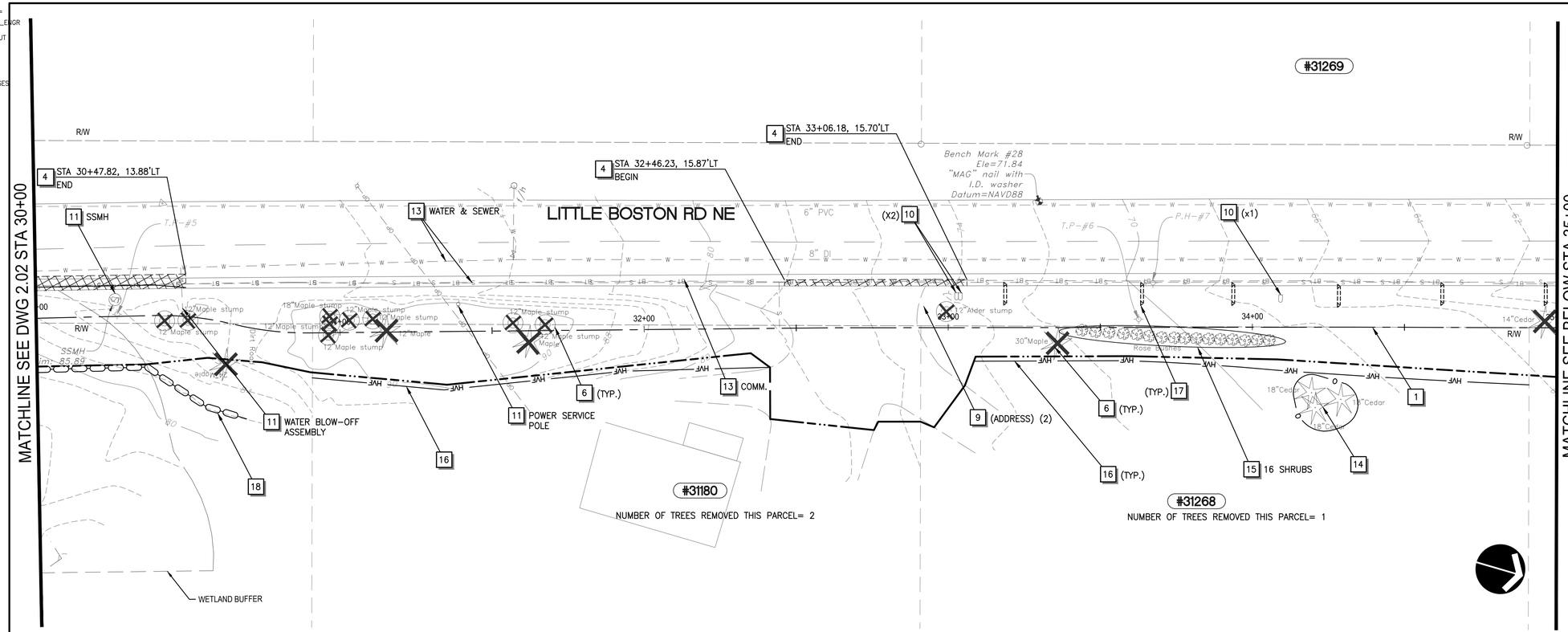

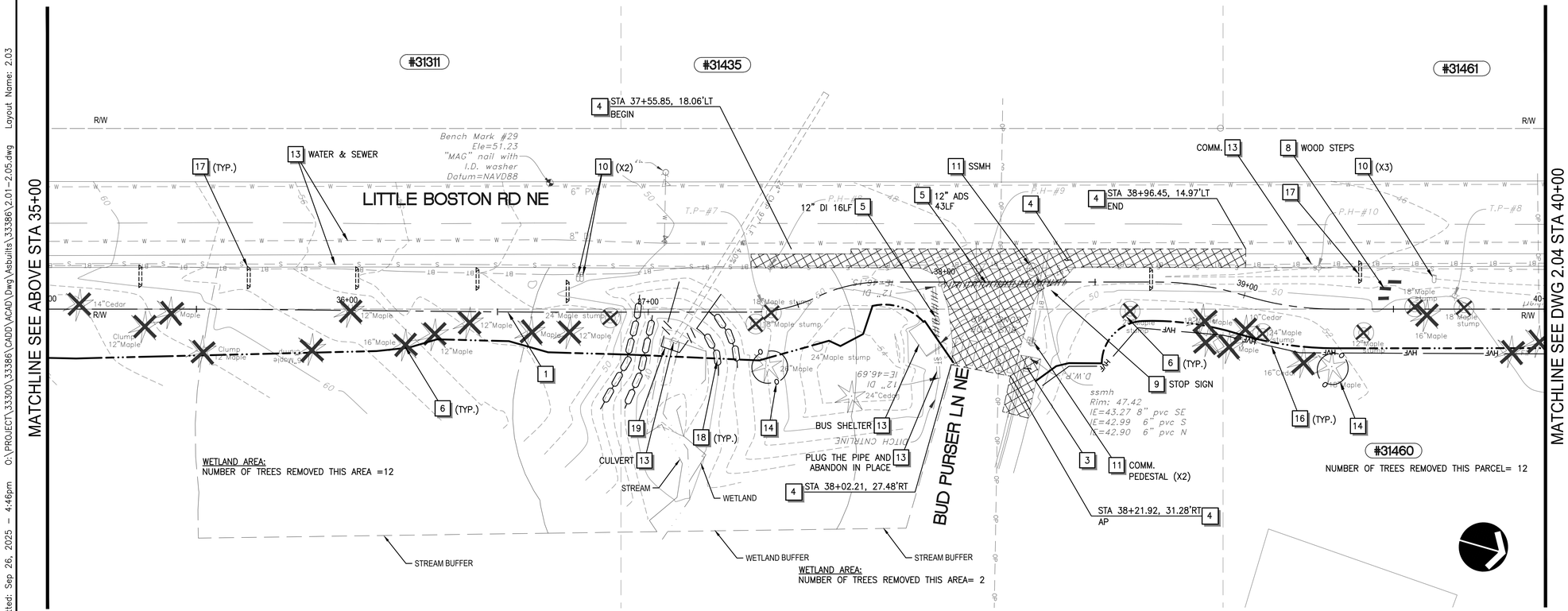

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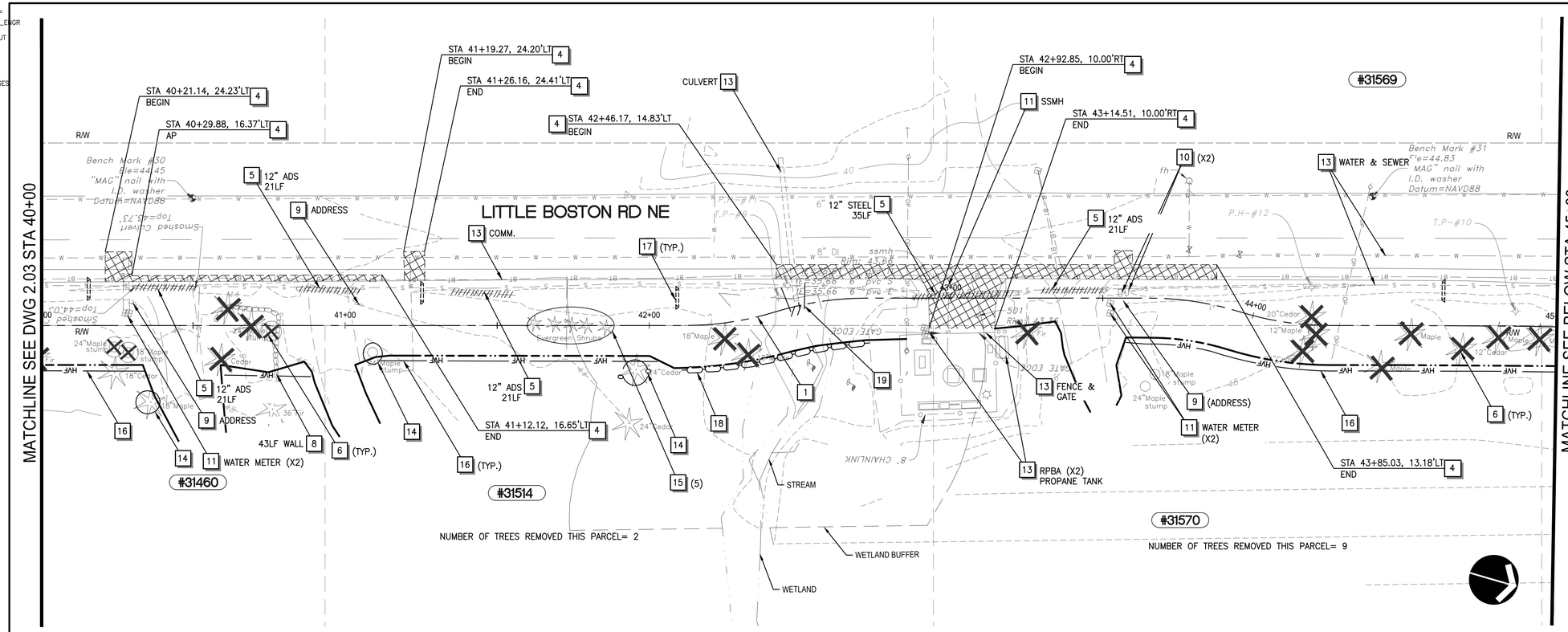

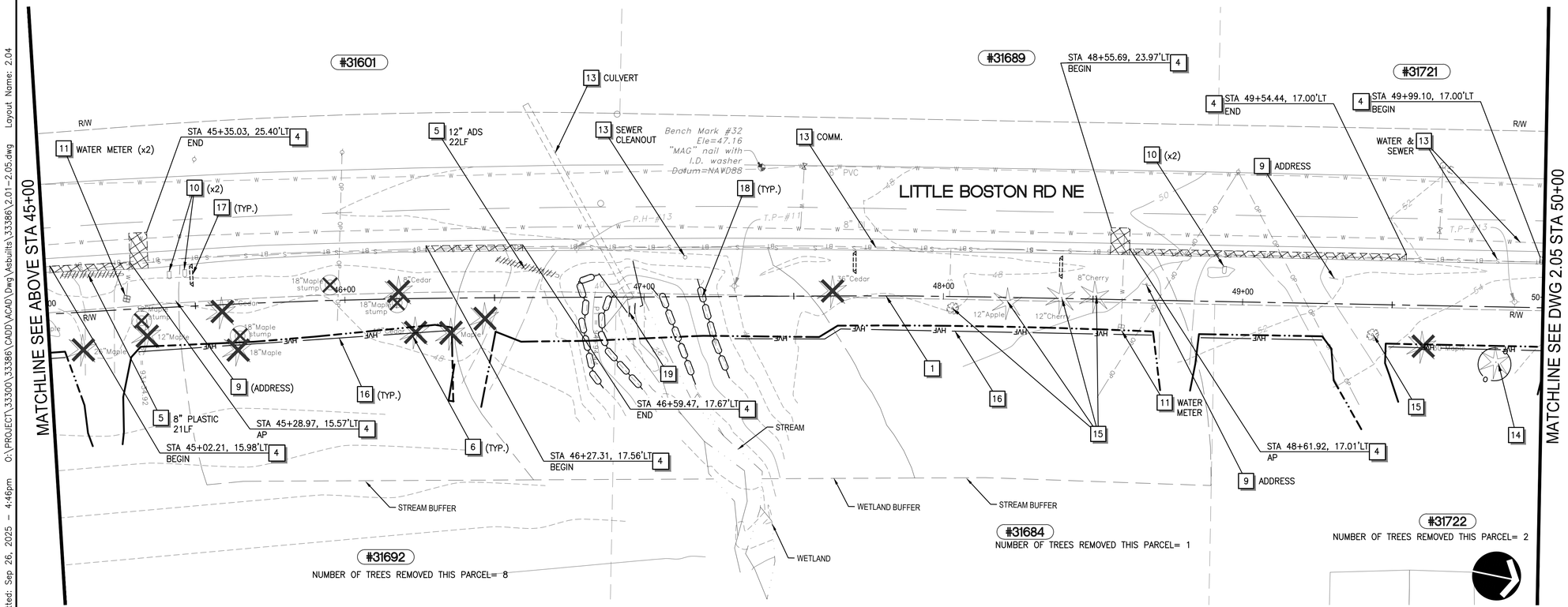

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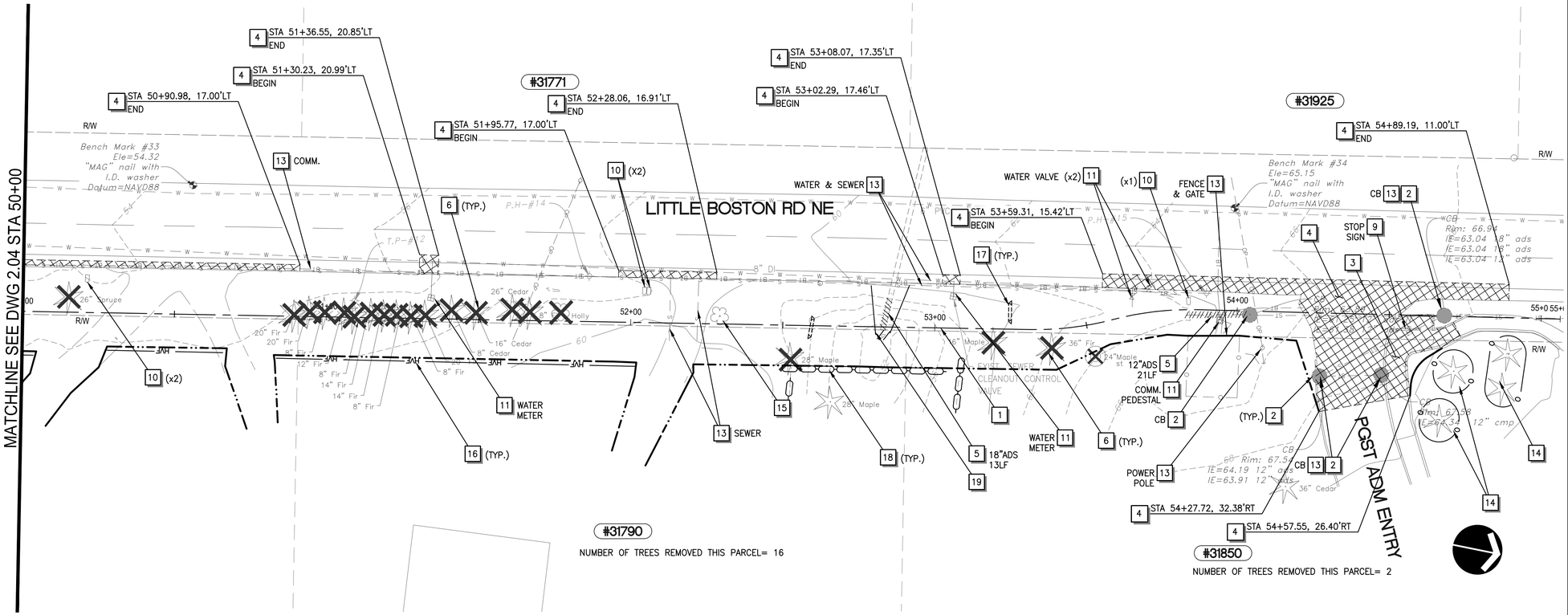

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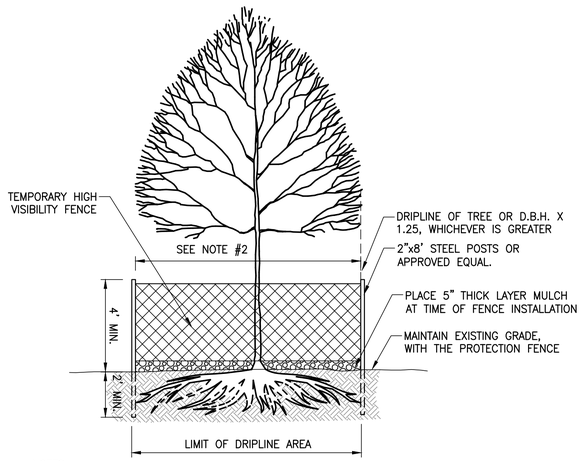
NUMBER OF TREES REMOVED THIS PARCEL= 2



NOTES

1. INSTALL TREE PROTECTION FENCING PRIOR TO COMMENCEMENT OF CLEARING OR GRADING ACTIVITIES.
2. INDIVIDUAL TREES SHALL BE FENCED ON FOUR (4) SIDES.
3. RESTRICTIONS ON GRADING WITHIN THE DRIP LINES OF RETAINED TREES: THE GRADE LEVEL AROUND ANY TREE TO BE RETAINED MAY NOT BE LOWERED WITHIN THE GREATER OF THE FOLLOWING AREAS: (I) THE AREA DEFINED BY THE DRIP LINE OF THE TREE, OR (II) AN AREA AROUND THE TREE EQUAL TO ONE AND ONE-HALF FEET (1-1/2') IN DIAMETER FOR EACH ONE INCH (1") OF TREE CALIPER.
4. TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1" IN DIA., MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHALL BE COVERED WITH TOPSOIL IMMEDIATELY TO PREVENT DRYING.
5. DO NOT FILL, EXCAVATE, STACK OR STORE ANY EQUIPMENT, DISPOSE OF ANY MATERIALS, SUPPLIES OR FLUIDS, OPERATE ANY EQUIPMENT, INSTALL IMPERVIOUS SURFACES, OR COMPACT THE EARTH IN ANY WAY WITHIN THE AREA DEFINED BY THE DRIP LINE OF ANY TREE TO BE RETAINED
6. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED PROJECT ARBORIST.

TREE PROTECTION

NOT TO SCALE

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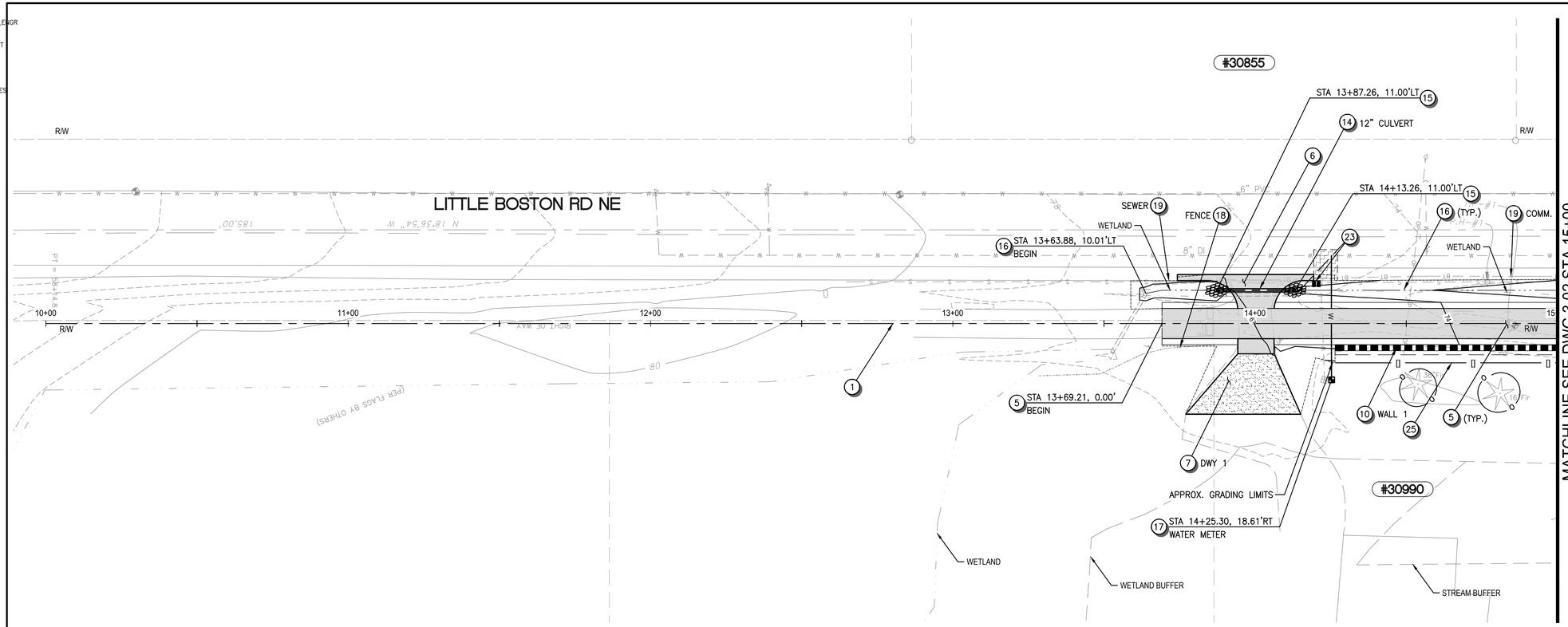

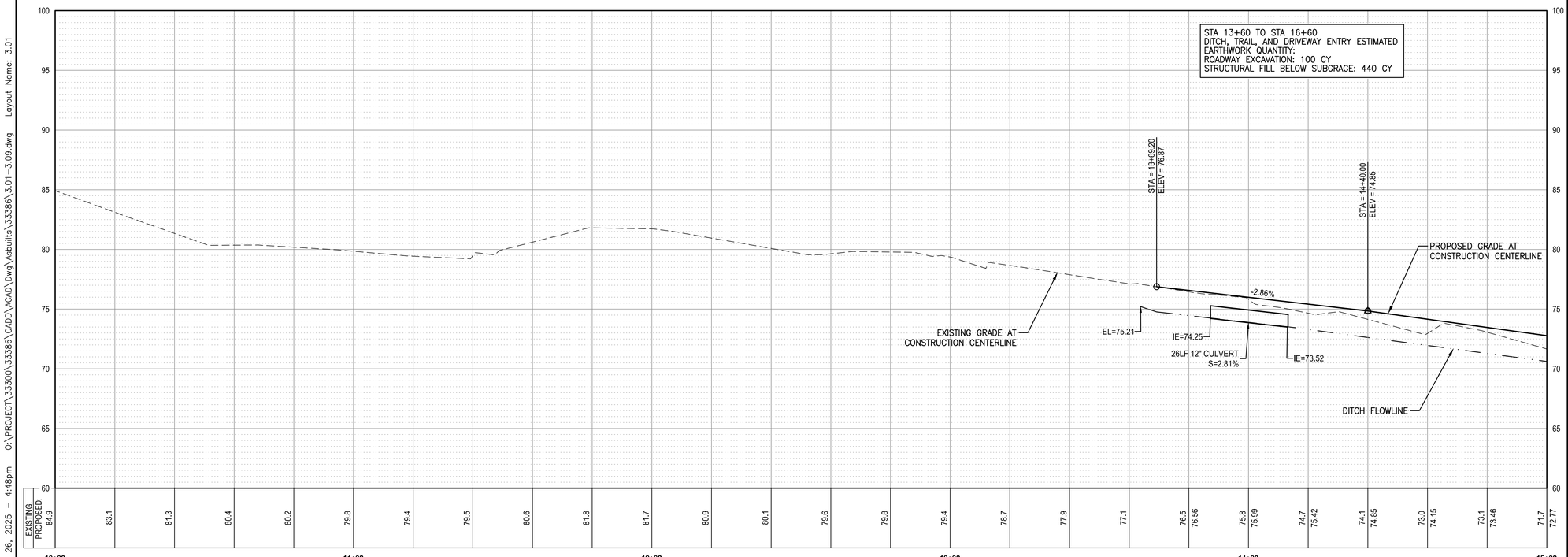

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2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F–10.12–04.
3. CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD PLAN F–30.10–04 OVER 4" CSTC.
4. CONSTRUCT CURB RAMP PER DETAIL ON DWGS 3.20–3.21 OVER 4" CSTC.
5. CONSTRUCT HMA PAVEMENT TRAIL PER DETAIL 1 ON DWG 3.10.
6. CONSTRUCT HMA ENTRY AND DRIVEWAY TIE–IN PER DETAIL 3 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWGS 3.12–3.19.
7. RECONSTRUCT GRAVEL DRIVEWAY TIE–IN PER DETAIL 2 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWGS 3.12–3.19.
8. RECONSTRUCT ROADWAY PAVEMENT PER DETAIL 4 ON DWG 3.10.
9. CONSTRUCT DEPRESSED CURB AND GUTTER AT DRIVEWAY ENTRANCES PER WSDOT STD PLAN F–10.12–04 AND DRIVEWAY DETAILS ON DWGS 3.12–3.19.
10. CONSTRUCT RETAINING WALL, SEE 4–SERIES PLANS FOR DETAILS.
11. CONSTRUCT BRIDGE, SEE 4–SERIES PLANS FOR DETAILS.
12. CONNECT TO EXISTING STORM DRAIN.
13. INSTALL DRAINAGE STRUCTURE, TYPE AND SIZE PER PLAN. SEE DETAIL ON DWG 3.11 FOR STRUCTURE PLACEMENT.
14. INSTALL STORM SEWER PIPE/CULVERT, SIZE AS INDICATED. MAINTAIN MIN. 12" COVER.
15. END OF PIPE. PLACE 5'x5'x1' QUARRY SPALLS AT CULVERT ENDS PER KITSAP COUNTY STD DETAIL 4–2.
16. RE–GRADE EXIST. ROADSIDE DITCH PER DETAIL ON DWG 3.10. PLACE 5'x5'x1' QUARRY SPALLS WHERE SHOWN ON PLANS.
17. INSTALL NEW RELOCATED WATER METER AND SERVICE LINE PER KITSAP COUNTY PUD STANDARDS.
18. EXISTING FEATURES OR STRUCTURE TO REMAIN, PROTECT DURING CONSTRUCTION.
19. EXISTING UTILITY TO REMAIN, PROTECT DURING CONSTRUCTION.
20. ADJUST EXISTING UTILITY TO FINISHED GRADE.
21. EXISTING UTILITY TO BE RELOCATED OR ADJUSTED TO FINISHED GRADE BY OTHERS.
22. PROPOSED CONCRETE PAD WITH BENCH, SEE 6–SERIES PLANS FOR DETAILS.
23. RELOCATE EXISTING MAILBOXES ON NEW SUPPORT PER WSDOT STD PLAN H–70.10–02 & H–70.20–02. SEE US MAILBOX TABLE ON DWG 3.10 FOR LOCATION AND SUPPORT TYPE.
24. GRADE AND CONSTRUCT NEW HMA DRIVEWAY PER DETAIL 2 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWG 3.12–3.19.
25. NEW WOOD OR CHAINLINK FENCE, SEE 6–SERIES PLANS FOR DETAILS.
26. NEW GUARDRAIL, SEE 5–SERIES PLANS FOR DETAILS.
27. CONCRETE PAVEMENT TRAIL APPROACH WITH INLAY PER DETAIL ON DWG 6.07
28. END OF PIPE. INSTALL PIPE INLET/OUTFALL PROTECTION, INCL. TRASH TRACK. SEE DETAIL DWG 3.11.

GENERAL NOTES

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3. CATCH BASIN TYPE 1 SHALL BE PER WSDOT STD PLAN B–5.20, AND CATCH BASIN TYPE 2 SHALL BE PER WSDOT STD PLAN B–10.20. ALL CATCH BASIN INLETS SHALL HAVE RECTANGULAR LOCKING VANED GRATES PER WSDOT STD PLAN B–30.30, UNLESS OTHERWISE NOTED.

HORZ SCALE IN FEET: 20 0 20 40
VERT SCALE IN FEET: 5 0 5 10

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DESIGNER
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MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAIL PLAN AND PROFILE (STA 10+00 – STA 15+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.01
DRAWING NO.

SHEET 13 OF 74

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Plotted: Sep 26, 2025 – 4:48pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.01

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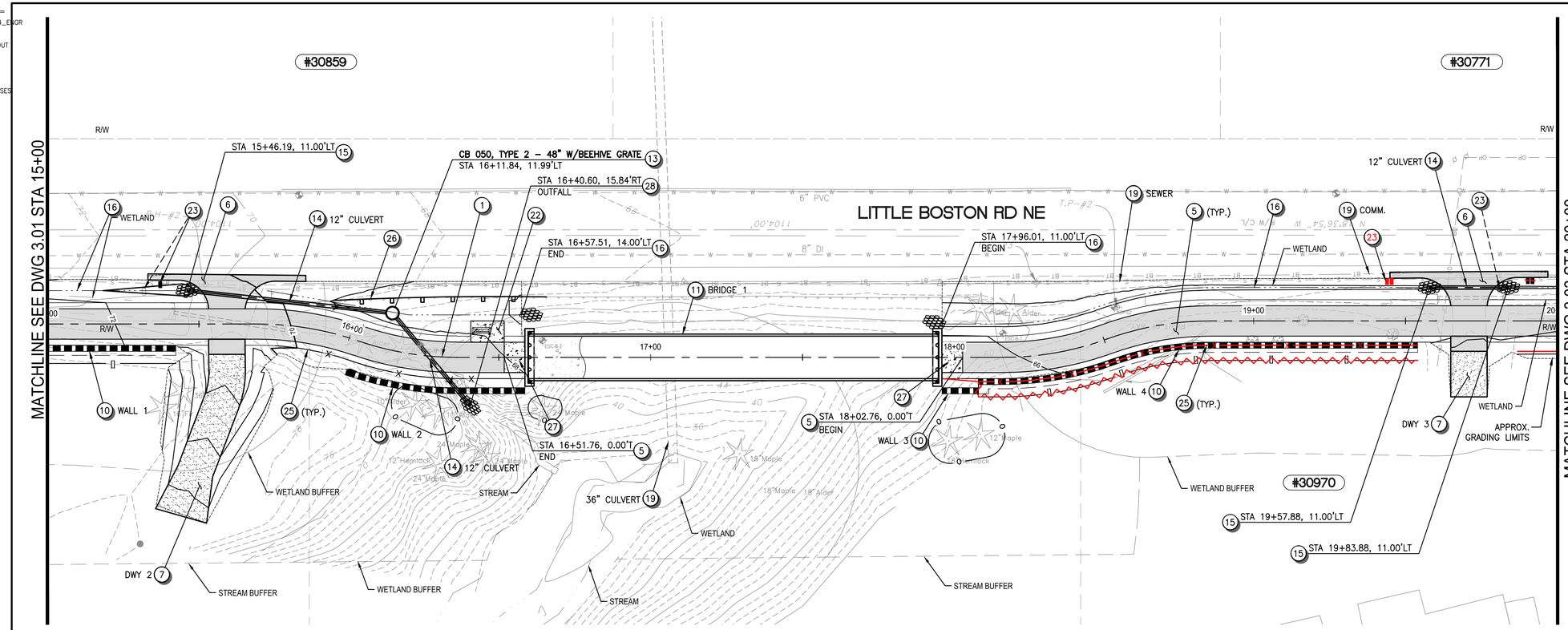

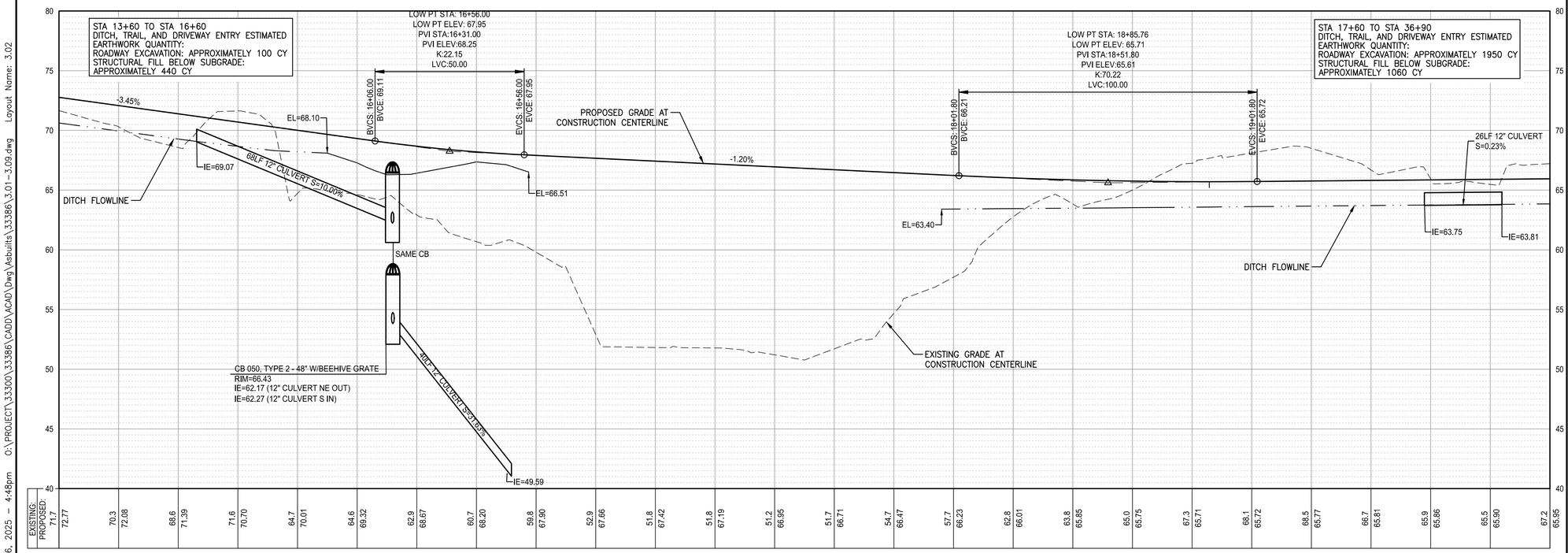

CONSTRUCTION NOTES

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HORZ SCALE: 20 0 20 40 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

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TRAIL PLAN AND PROFILE (STA 15+00 – STA 20+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.02
DRAWING NO.

SHEET 14 OF 74

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Plotted: Sep 26, 2025 – 4:48pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.02

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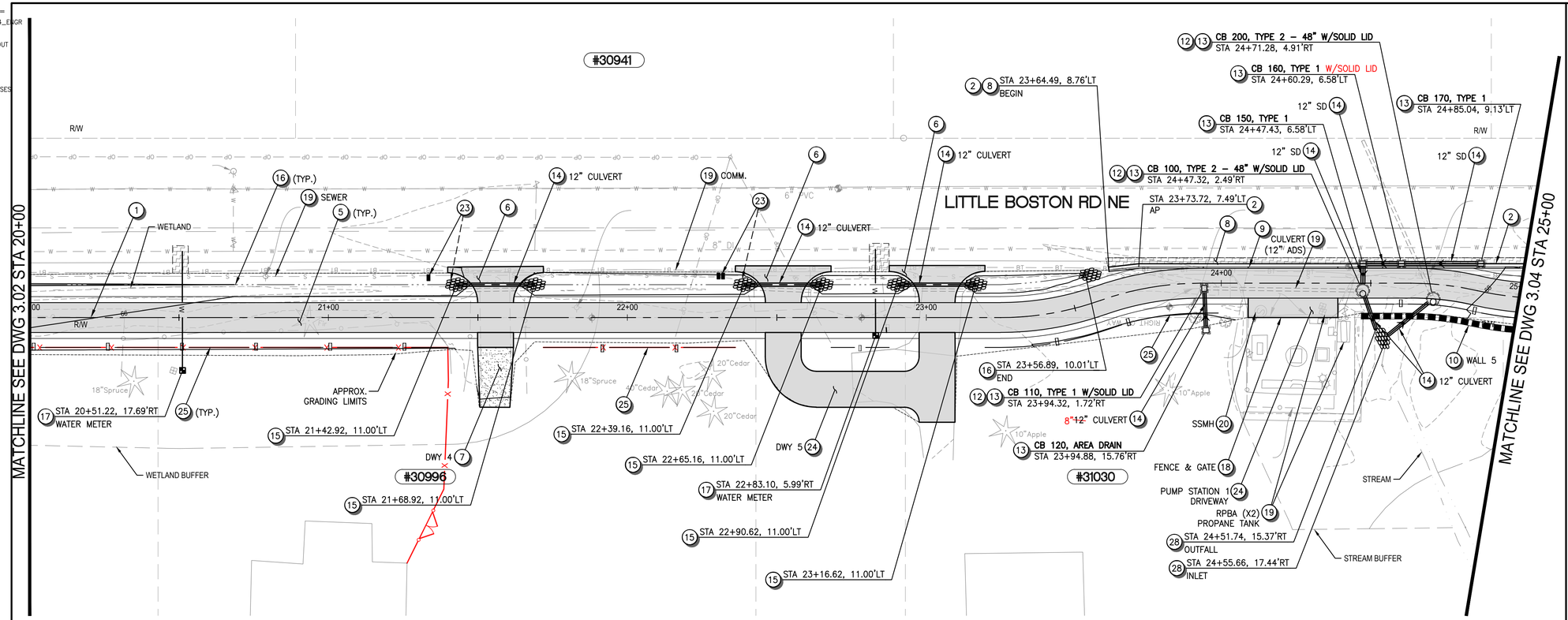

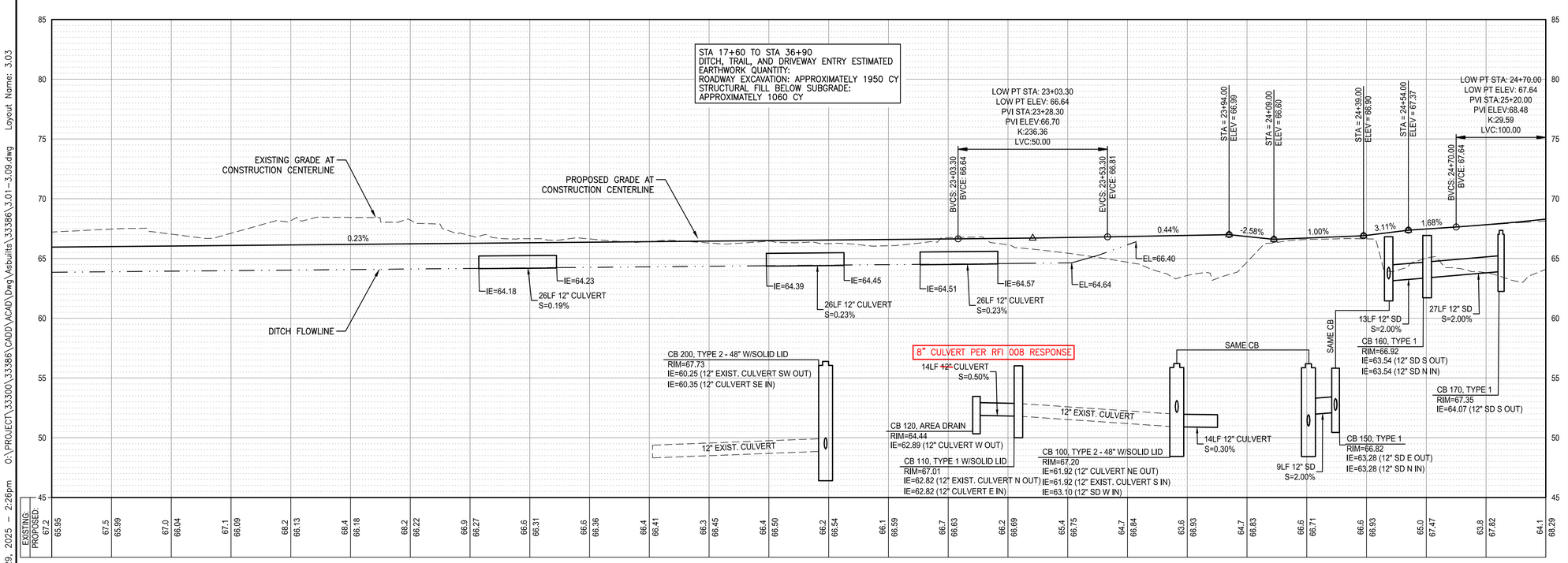

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HORZ SCALE: 20 0 20 40 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAIL PLAN AND PROFILE (STA 20+00 – STA 25+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.03
DRAWING NO.

SHEET 15 OF 74

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Plotted: Sep 29, 2025 – 2:26pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.03

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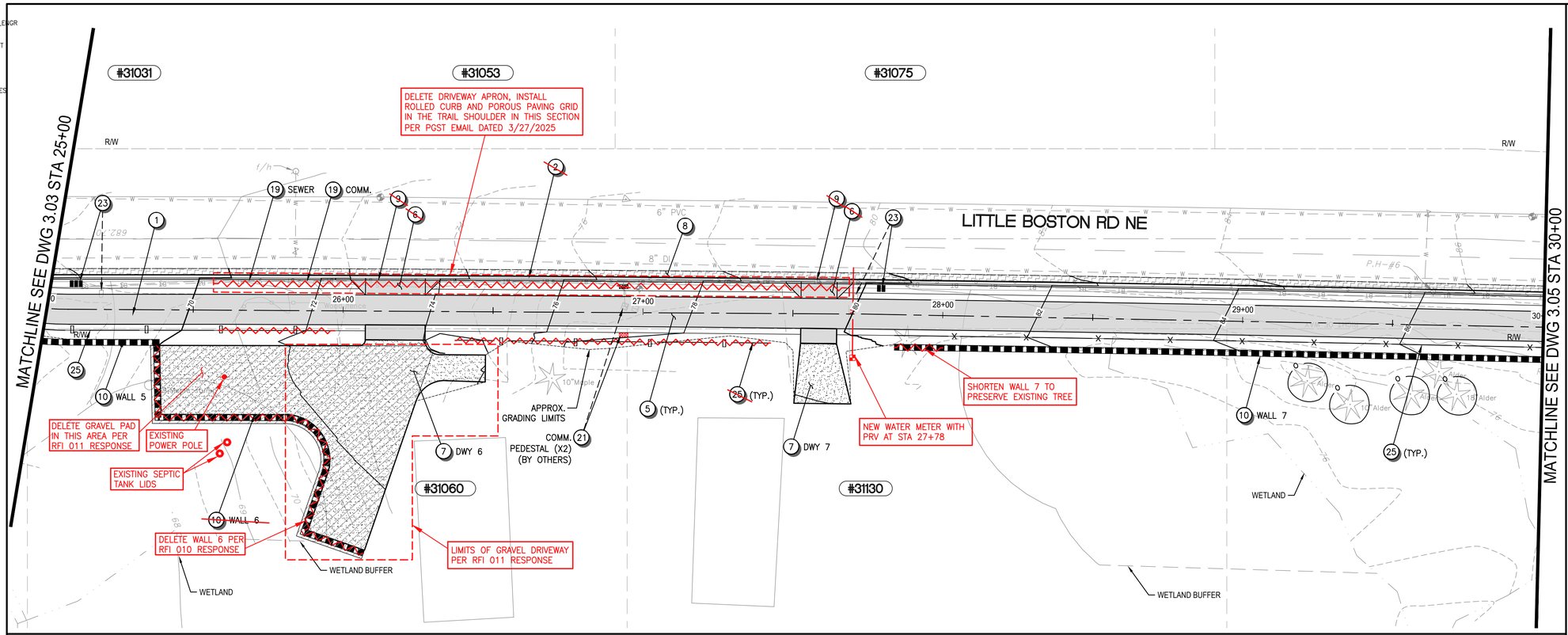

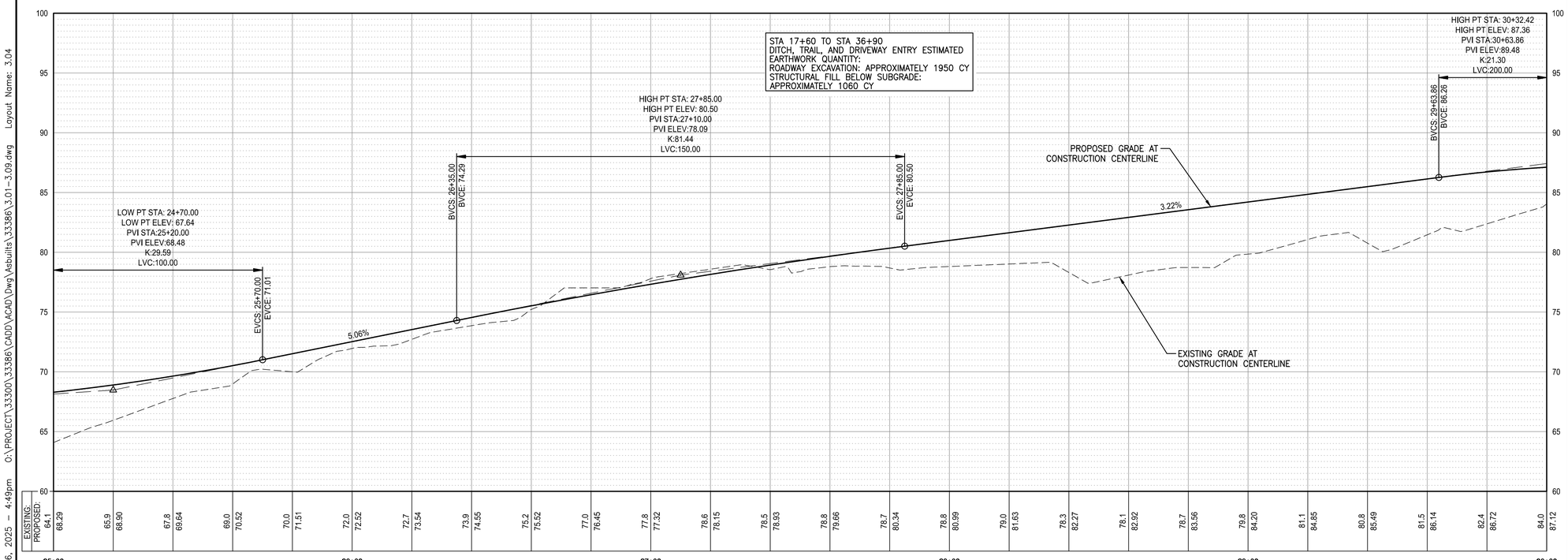

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33386
PROJECT NUMBER

3.04
DRAWING NO.

SHEET 16 OF 74

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Plotted: Sep 26, 2025 – 4:49pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.04

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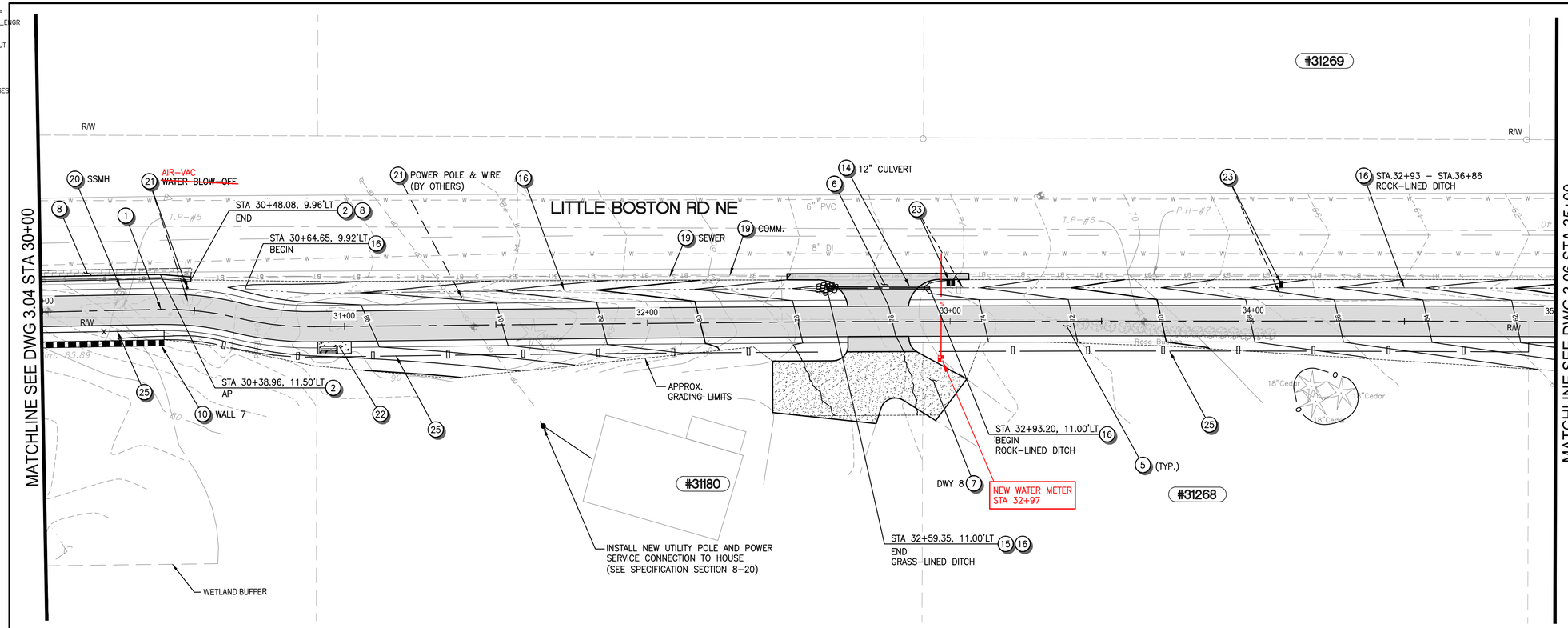

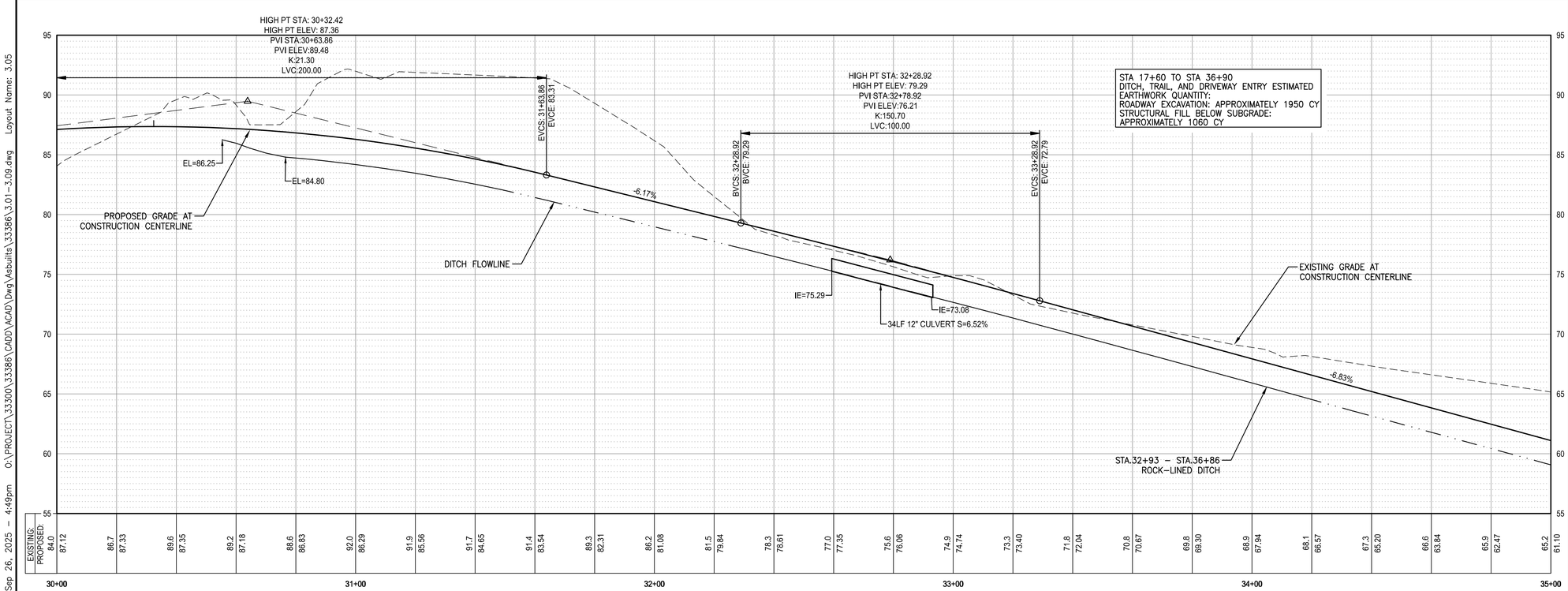

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24. GRADE AND CONSTRUCT NEW HMA DRIVEWAY PER DETAIL 2 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWG 3.12–3.19.
25. NEW WOOD OR CHAINLINK FENCE, SEE 6–SERIES PLANS FOR DETAILS.
26. NEW GUARDRAIL, SEE 5–SERIES PLANS FOR DETAILS.
27. CONCRETE PAVEMENT TRAIL APPROACH WITH INLAY PER DETAIL ON DWG 6.07
28. END OF PIPE. INSTALL PIPE INLET/OUTFALL PROTECTION, INCL. TRASH TRACK. SEE DETAIL DWG 3.11.

GENERAL NOTES

1. FINISHED GRADE CONTOURS SHOWN CORRESPOND TO FINISHED PAVEMENT GRADES AND FINISHED TRANSITION GRADES. SPOT ELEVATIONS WHERE SHOWN ARE TO TOP OF PAVEMENT OR FLOWLINE UNLESS OTHERWISE NOTED.
2. REFER TO 2–SERIES SHEETS FOR SITE DEMOLITION AND TREES/STUMPS TO BE REMOVED AND PROTECTED.
3. CATCH BASIN TYPE 1 SHALL BE PER WSDOT STD PLAN B–5.20, AND CATCH BASIN TYPE 2 SHALL BE PER WSDOT STD PLAN B–10.20. ALL CATCH BASIN INLETS SHALL HAVE RECTANGULAR LOCKING VANED GRATES PER WSDOT STD PLAN B–30.30, UNLESS OTHERWISE NOTED.

HORZ SCALE: 20 0 20 40 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

811 Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAIL PLAN AND PROFILE (STA 30+00 – STA 35+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.05
DRAWING NO.

SHEET 17 OF 74

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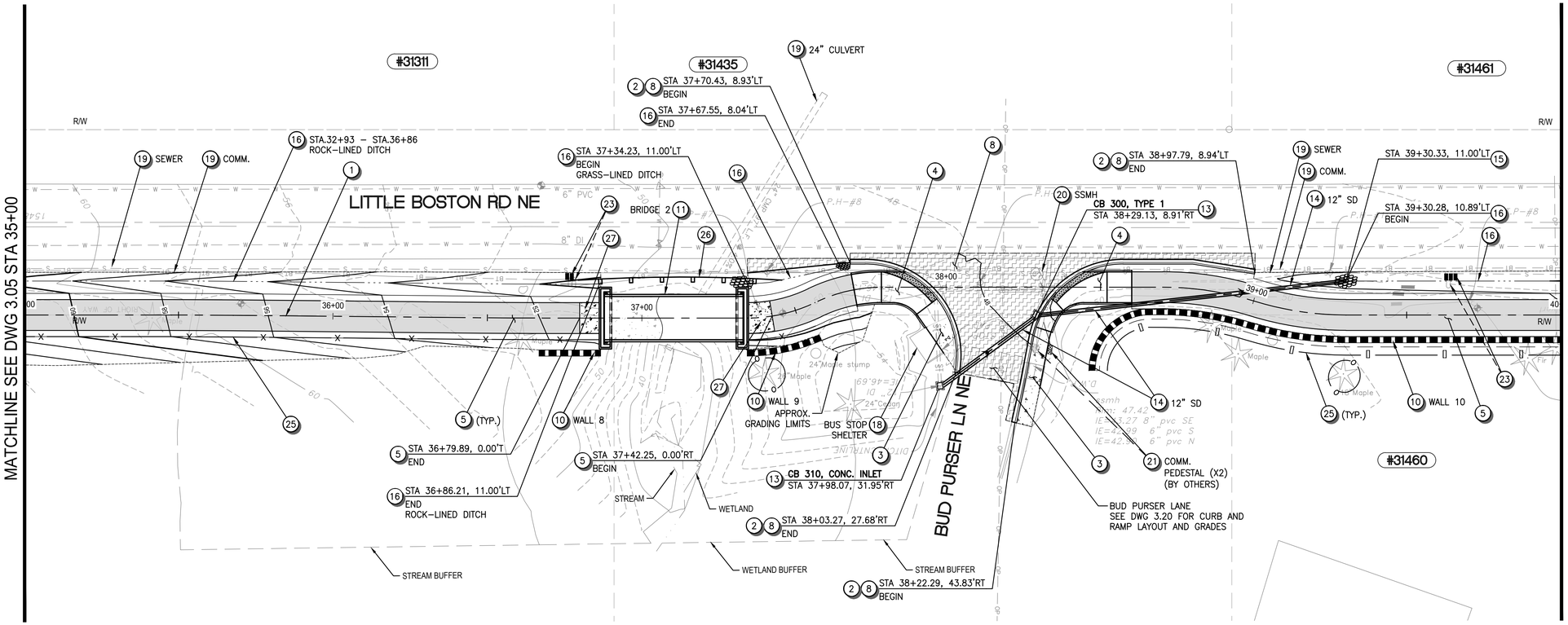
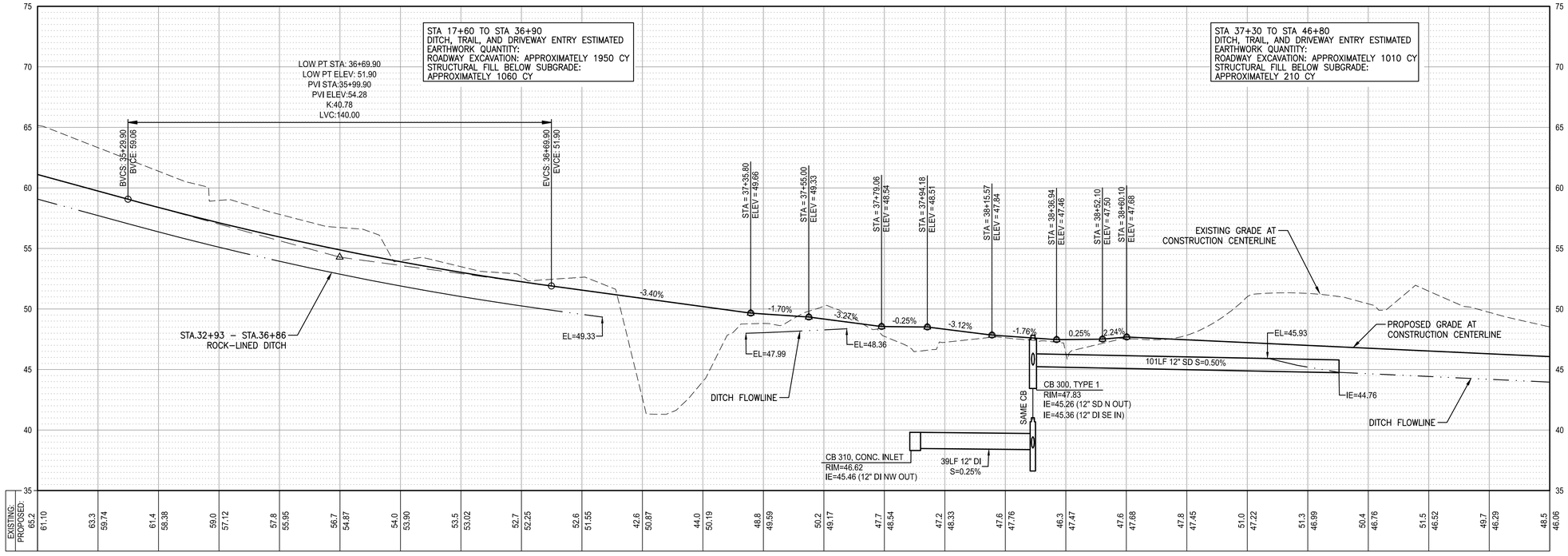
Plotted: Sep 26, 2025 – 4:49pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.05

XREF LIST
_OTAK22X34_ENGR
33386R270
33386R500
SHEET-LAYOUT
BASEMAP
33386U630
33386N031
33386N100
33386G450
33386-HOUSES
33386X800
33386T460





CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE DWG 1.03–1.07 FOR HORIZONTAL CONTROL.
2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F–10.12–04.
3. CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD PLAN F–30.10–04 OVER 4" CSTC.
4. CONSTRUCT CURB RAMP PER DETAIL ON DWGS 3.20–3.21 OVER 4" CSTC.
5. CONSTRUCT HMA PAVEMENT TRAIL PER DETAIL 1 ON DWG 3.10.
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7. RECONSTRUCT GRAVEL DRIVEWAY TIE–IN PER DETAIL 2 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWGS 3.12–3.19.
8. RECONSTRUCT ROADWAY PAVEMENT PER DETAIL 4 ON DWG 3.10.
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11. CONSTRUCT BRIDGE, SEE 4–SERIES PLANS FOR DETAILS.
12. CONNECT TO EXISTING STORM DRAIN.
13. INSTALL DRAINAGE STRUCTURE, TYPE AND SIZE PER PLAN. SEE DETAIL ON DWG 3.11 FOR STRUCTURE PLACEMENT.
14. INSTALL STORM SEWER PIPE/CULVERT, SIZE AS INDICATED. MAINTAIN MIN. 12" COVER.
15. END OF PIPE. PLACE 5'x5'x1' QUARRY SPALLS AT CULVERT ENDS PER KITSAP COUNTY STD DETAIL 4–2.
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HORZ SCALE 20 0 20 40 IN FEET
VERT SCALE 5 0 5 10 IN FEET

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DRAWN BY
CHECKED BY

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAIL PLAN AND PROFILE (STA 35+00 – STA 40+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386 PROJECT NUMBER

3.06 DRAWING NO.

SHEET 18 OF 74

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Plotted: Sep 26, 2025 – 4:50pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.06

XREF LIST
_OTAK22X34_ENGR
33386R270
33386R500
SHEET-LAYOUT
BASEMAP
33386U630
33386N031
33386N100
33386G450
33386-HOUSES
33386X800
33386T460

MATCHLINE SEE DWG 3.06 STA 40+00

MATCHLINE SEE DWG 3.08 STA 45+00

LITTLE BOSTON RD NE

#31569

#31460

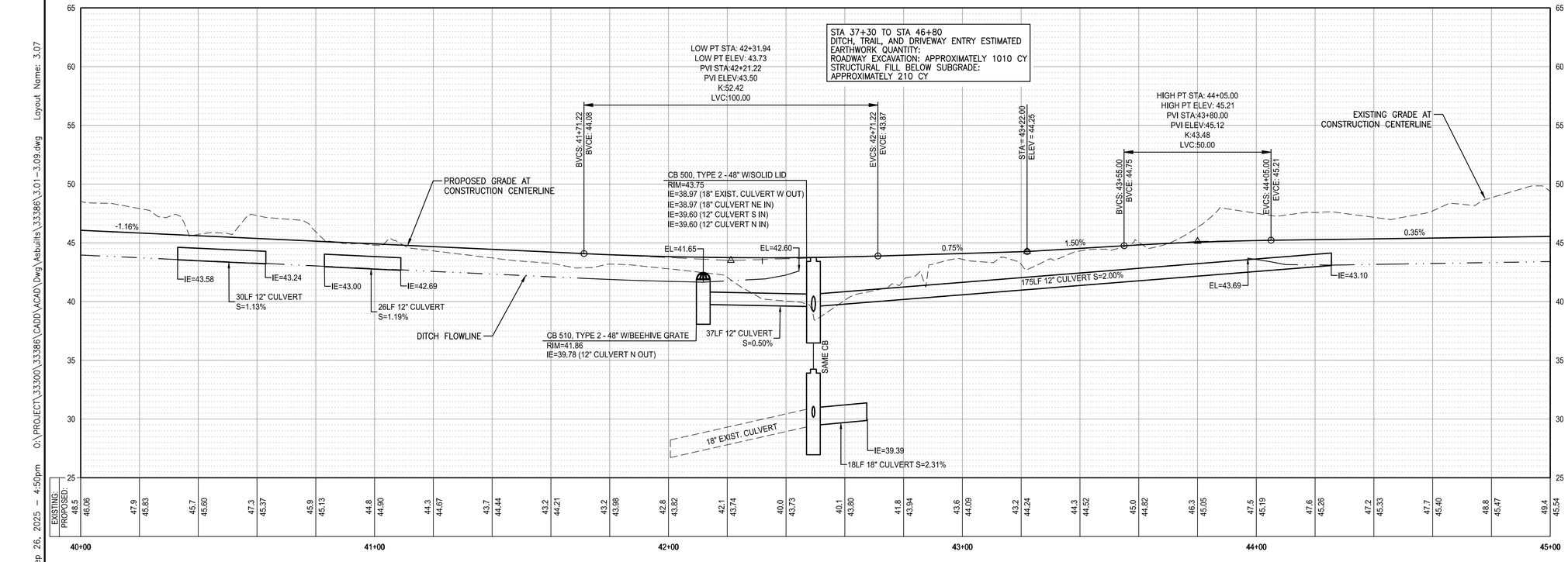
#31514

#31570

R/W

STA 40+32.99, 11.00'LT (15)
STA 40+62.99, 11.00'LT (15)
STA 40+82.94, 11.00'LT (15)
STA 41+08.94, 11.00'LT (15)
STA 42+11.88, 10.89'LT (13)
STA 42+49.32, 0.26'LT
STA 42+54.09, 8.02'LT (2) (8)
BEGIN
STA 42+72.06, 8.00'LT (2)
AP
STA 43+65.39, 8.00'LT (2)
AP
STA 43+85.85, 8.29'LT (2) (8)
END
STA 43+97.11, 8.97'LT (16)
BEGIN
STA 43+95.50, 11.00'LT (15)

12" CULVERT (14)
18" CULVERT (19)
CB 500, TYPE 2 – 48" W/SOLID LID (12) (13)
FENCE & GATE (18)
COMM. (19)
SEWER (19)
WALL 10 (10)
WALL 11 (10)
WALL 12 (10)
DWY 9 (7)
DWY 10 (7)
DWY 11 (7)
SHORTEN WALL 10 TO PRESERVE EXISTING TREE
STA 40+24.25, 6.01'RT WATER METER ~~(x2)~~ (x3) (17)
STA 41+24.19, 5.99'RT WATER METER (17)
STA 43+56.81, 6.01'RT WATER METER (x2) (17)
(16) (TYP.)
(25) (TYP.)
APPROX. GRADING LIMITS
SSMH (20)
RPBA PROPANE TANK (19)
PUMP STATION 2 DRIVEWAY (24)
RPBA PROPANE TANK (19)
18" CULVERT (14)
STREAM
STA 42+47.84, 17.85'RT INLET (28)
STA 42+39.72, 9.18'LT (16) END
WETLAND BUFFER
WETLAND



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HORZ SCALE 20 0 20 40 IN FEET
VERT SCALE 5 0 5 10 IN FEET

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DRAWN BY
CHECKED BY

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAIL PLAN AND PROFILE (STA 40+00 – STA 45+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.07
DRAWING NO.

SHEET 19 OF 74

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Plotted: Sep 26, 2025 – 4:50pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.07

XREF LIST
_OTAK22X34_ENGR
33386R270
33386R500
SHEET-LAYOUT
BASEMAP
33386U630
33386N031
33386N100
33386G450
33386-HOUSES
33386X800
33386T460

MATCHLINE SEE DWG 3.07 STA 45+00

MATCHLINE SEE DWG 3.09 STA 50+00

#31601 #31689 #31721 #31692 #31684 #31722

LITTLE BOSTON RD NE

STA 45+05.01, 11.00'LT (15)
STA 45+30.99, 11.00'LT (15)
STA 45+31.71, 6.01'RT (17) WATER METER (x2)
STA 46+30.29, 11.00'LT (16) END
STA 46+56.31, 11.05'LT (16) BEGIN
STA 46+65.18, 0.01'LT (5) END
STA 46+71.51, 11.15'LT (16) END
STA 47+29.76, 11.00'LT (16) BEGIN
STA 47+36.21, 0.00'T (5) BEGIN
STA 48+57.06, 8.70'RT (17) WATER METER
STA 48+64.99, 11.00'LT (15)
STA 48+90.99, 11.00'LT (15)
STA 49+25.28, 11.00'LT (15)
STA 49+51.28, 11.00'LT (15)

(14) 12" CULVERT
(19) SEWER
(19) 24" CULVERT
(11) BRIDGE 3
(1) (19) COMM.
(16) (TYP.)
(25) (TYP.)
(5) (TYP.)
(10) WALL 13
(10) WALL 14
(10) WALL 15
(7) DWY 12
(7) DWY 13
(7) DWY 14
(7) DWY 15
(20) WATER METER
(25) APPROX. GRADING LIMITS
STREAM
STREAM BUFFER
WETLAND BUFFER
WETLAND
R/W
12 Apples
12 Cherry

DELETED WALL 15.
GRADE TO 2:1 SLOPE
PER RFI 009 RESPONSE

STA 37+30 TO STA 46+80
DITCH, TRAIL, AND DRIVEWAY ENTRY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 1010 CY
STRUCTURAL FILL BELOW SUBGRADE: APPROXIMATELY 210 CY

STA 47+20 TO STA 55+00
DITCH, TRAIL, AND DRIVEWAY ENTRY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 470 CY
STRUCTURAL FILL BELOW SUBGRADE: APPROXIMATELY 310 CY

LOW PT STA: 45+02.70
LOW PT ELEV: 45.55
PVI STA:45+77.70
PVI ELEV:45.82
K:222.55
LVC:150.00

LOW PT STA: 47+71.60
LOW PT ELEV: 48.23
PVI STA:48+46.60
PVI ELEV:49.31
K:120.01
LVC:150.00

BVCS: 45+02.70
BVCE: 45.55
EVCS: 46+52.70
EVCE: 46.98
STA = 46+72.04
ELEV = 46.78
BVCS: 47+71.60
BVCE: 48.23
EVCS: 49+21.60
EVCE: 51.34

PROPOSED GRADE AT CONSTRUCTION CENTERLINE
EXISTING GRADE AT CONSTRUCTION CENTERLINE
DITCH FLOWLINE
1.02%
1.45%
EL=44.71
EL=44.67
EL=45.69
IE=43.42
IE=43.55
26LF 12" CULVERT S=0.50%
IE=47.85
IE=48.45
26LF 12" CULVERT S=2.31%
IE=49.34
IE=50.04
26LF 12" CULVERT S=2.69%

	45+00		46+00		47+00		48+00		49+00		50+00
EXISTING:	49.4	46.6	45.62	48.1	45.72	47.7	45.83	48.0	45.96	47.8	46.11
PROPOSED:	45.54										

	47+00		48+00		49+00		50+00	
EXISTING:	47.0	46.27	46.8	46.46	46.7	46.66	41.9	46.90
PROPOSED:								

	47+00		48+00		49+00		50+00	
EXISTING:	36.1	47.19	42.2	47.48	46.9	47.77	47.8	48.06
PROPOSED:								

	48+00		49+00		50+00		51+00	
EXISTING:	48.0	48.35	47.9	48.67	48.8	49.03	49.3	49.41
PROPOSED:								

	49+00		50+00		51+00		52+00	
EXISTING:	50.0	49.83	50.6	50.29	51.0	50.77	51.7	51.30
PROPOSED:								

	51+00		52+00		53+00		54+00	
EXISTING:	52.8	51.84	53.8	52.38	54.4	52.92	55.2	53.46
PROPOSED:								

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HORZ SCALE 20 0 20 40 IN FEET
VERT SCALE 5 0 5 10 IN FEET

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YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAIL PLAN AND PROFILE (STA 45+00 – STA 50+00)

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386 PROJECT NUMBER

3.08 DRAWING NO.

SHEET 20 OF 74

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Plotted: Sep 26, 2025 – 4:50pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.08

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33386R500
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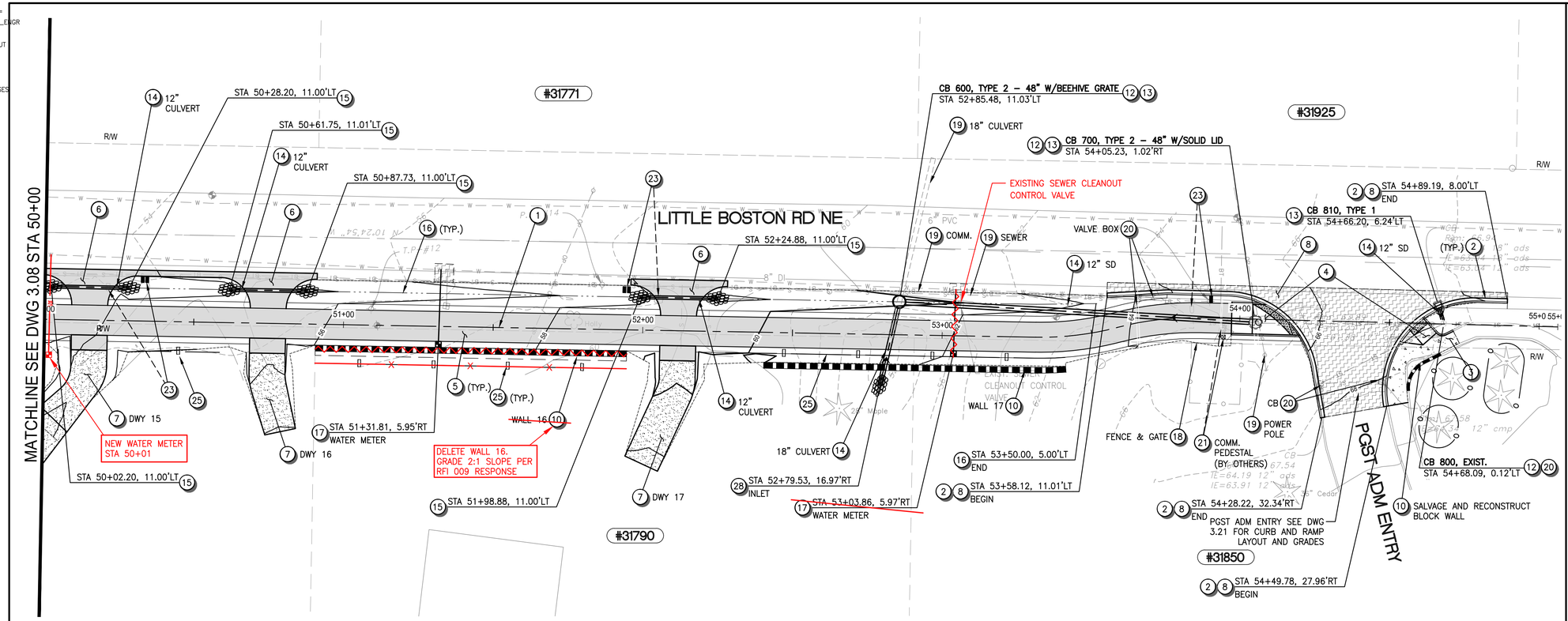
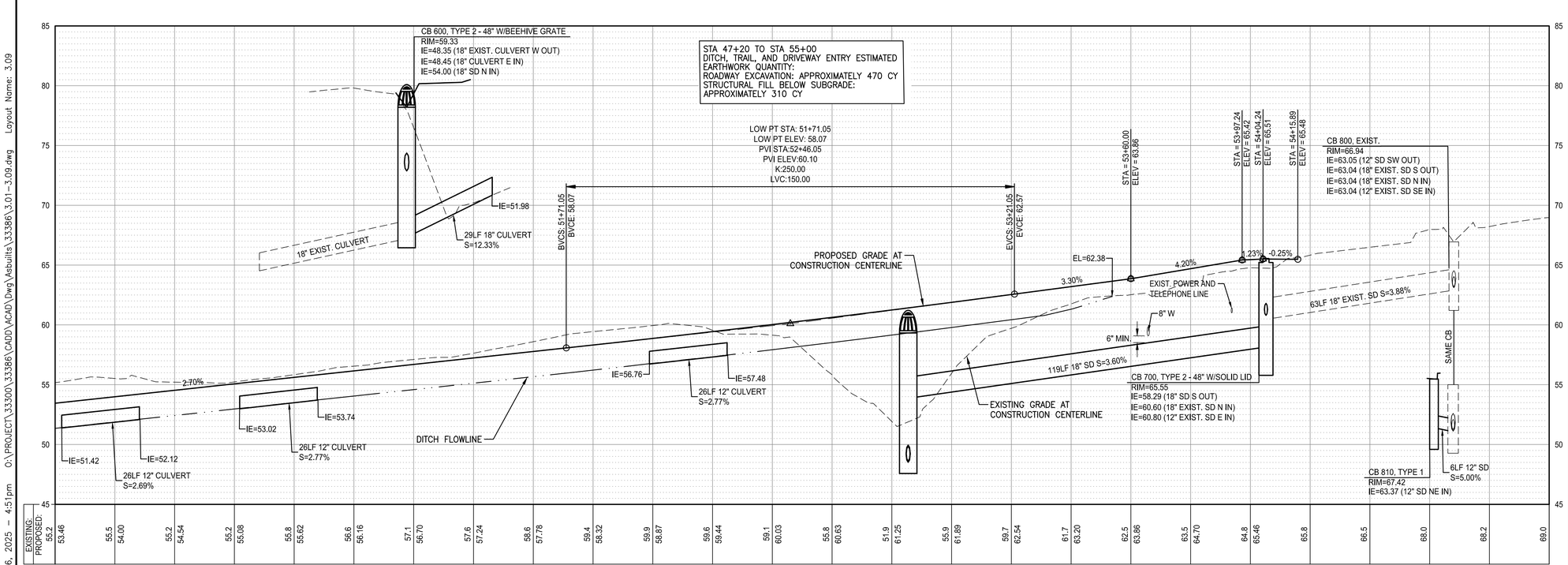
33386T460





CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE DWG 1.03–1.07 FOR HORIZONTAL CONTROL.
2. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F–10.12–04.
3. CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD PLAN F–30.10–04 OVER 4" CSTC.
4. CONSTRUCT CURB RAMP PER DETAIL ON DWGS 3.20–3.21 OVER 4" CSTC.
5. CONSTRUCT HMA PAVEMENT TRAIL PER DETAIL 1 ON DWG 3.10.
6. CONSTRUCT HMA ENTRY AND DRIVEWAY TIE–IN PER DETAIL 3 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWGS 3.12–3.19.
7. RECONSTRUCT GRAVEL DRIVEWAY TIE–IN PER DETAIL 2 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWGS 3.12–3.19.
8. RECONSTRUCT ROADWAY PAVEMENT PER DETAIL 4 ON DWG 3.10.
9. CONSTRUCT DEPRESSED CURB AND GUTTER AT DRIVEWAY ENTRANCES PER WSDOT STD PLAN F–10.12–04 AND DRIVEWAY DETAILS ON DWGS 3.12–3.19.
10. CONSTRUCT RETAINING WALL, SEE 4–SERIES PLANS FOR DETAILS.
11. CONSTRUCT BRIDGE, SEE 4–SERIES PLANS FOR DETAILS.
12. CONNECT TO EXISTING STORM DRAIN.
13. INSTALL DRAINAGE STRUCTURE, TYPE AND SIZE PER PLAN. SEE DETAIL ON DWG 3.11 FOR STRUCTURE PLACEMENT.
14. INSTALL STORM SEWER PIPE/CULVERT, SIZE AS INDICATED. MAINTAIN MIN. 12" COVER.
15. END OF PIPE. PLACE 5'x5'x1' QUARRY SPALLS AT CULVERT ENDS PER KITSAP COUNTY STD DETAIL 4–2.
16. RE–GRADE EXIST. ROADSIDE DITCH PER DETAIL ON DWG 3.10. PLACE 5'x5'x1' QUARRY SPALLS WHERE SHOWN ON PLANS.
17. INSTALL NEW RELOCATED WATER METER AND SERVICE LINE PER KITSAP COUNTY PUD STANDARDS.
18. EXISTING FEATURES OR STRUCTURE TO REMAIN, PROTECT DURING CONSTRUCTION.
19. EXISTING UTILITY TO REMAIN, PROTECT DURING CONSTRUCTION.
20. ADJUST EXISTING UTILITY TO FINISHED GRADE.
21. EXISTING UTILITY TO BE RELOCATED OR ADJUSTED TO FINISHED GRADE BY OTHERS.
22. PROPOSED CONCRETE PAD WITH BENCH, SEE 6–SERIES PLANS FOR DETAILS.
23. RELOCATE EXISTING MAILBOXES ON NEW SUPPORT PER WSDOT STD PLAN H–70.10–02 & H–70.20–02. SEE US MAILBOX TABLE ON DWG 3.10 FOR LOCATION AND SUPPORT TYPE.
24. GRADE AND CONSTRUCT NEW HMA DRIVEWAY PER DETAIL 2 ON DWG 3.10 AND DRIVEWAY LAYOUT ON DWG 3.12–3.19.
25. NEW WOOD OR CHAINLINK FENCE, SEE 6–SERIES PLANS FOR DETAILS.
26. NEW GUARDRAIL, SEE 5–SERIES PLANS FOR DETAILS.
27. CONCRETE PAVEMENT TRAIL APPROACH WITH INLAY PER DETAIL ON DWG 6.07
28. END OF PIPE. INSTALL PIPE INLET/OUTFALL PROTECTION, INCL. TRASH TRACK. SEE DETAIL DWG 3.11.

GENERAL NOTES

1. FINISHED GRADE CONTOURS SHOWN CORRESPOND TO FINISHED PAVEMENT GRADES AND FINISHED TRANSITION GRADES. SPOT ELEVATIONS WHERE SHOWN ARE TO TOP OF PAVEMENT OR FLOWLINE UNLESS OTHERWISE NOTED.
2. REFER TO 2–SERIES SHEETS FOR SITE DEMOLITION AND TREES/STUMPS TO BE REMOVED AND PROTECTED.
3. CATCH BASIN TYPE 1 SHALL BE PER WSDOT STD PLAN B–5.20, AND CATCH BASIN TYPE 2 SHALL BE PER WSDOT STD PLAN B–10.20. ALL CATCH BASIN INLETS SHALL HAVE RECTANGULAR LOCKING VANED GRATES PER WSDOT STD PLAN B–30.30, UNLESS OTHERWISE NOTED.

HORZ SCALE: 20 0 20 40 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

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NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
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TRAIL PLAN AND PROFILE
(STA 50+00 – STA 55+00)

TITLE

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www.otak.com

33386
PROJECT NUMBER

3.09
DRAWING NO.

SHEET 21 OF 74

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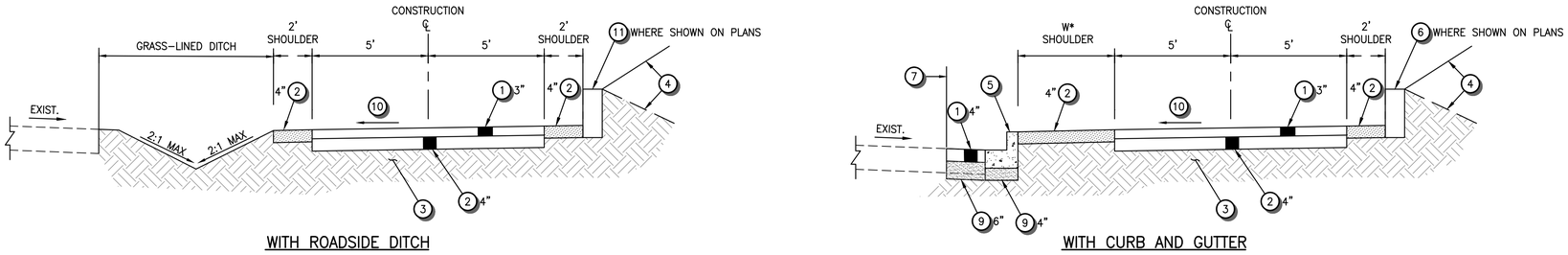
Plotted: Sep 26, 2025 – 4:51pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.01–3.09.dwg Layout Name: 3.09

XREF LIST
_OTAK22X34_ENGR

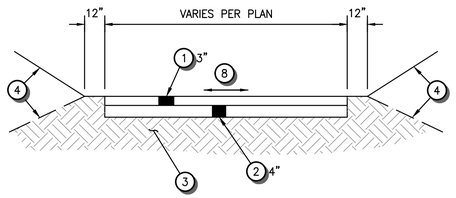
* STA. 23+93 – 24+63, W = 0'
STA. 25+08 – 30+39, W = 5' (2' GRAVEL SHOULDER & 3' LANDSCAPE AREA)
STA. 42+72 – 43+65, W = 2.5' GRAVEL SHOULDER



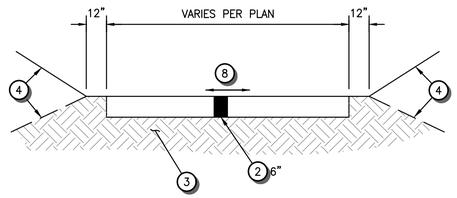
WITH ROADSIDE DITCH

WITH CURB AND GUTTER

1 TYPICAL SECTION – HMA PAVEMENT TRAIL
NOT TO SCALE

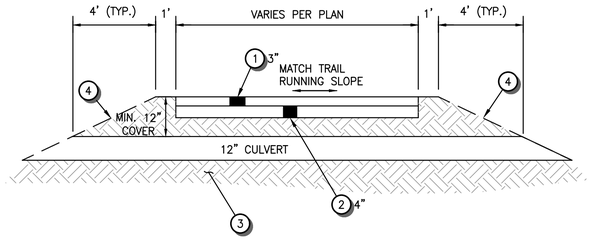


ASPHALT

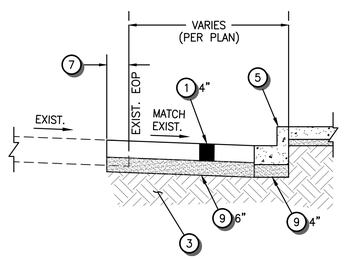


GRAVEL

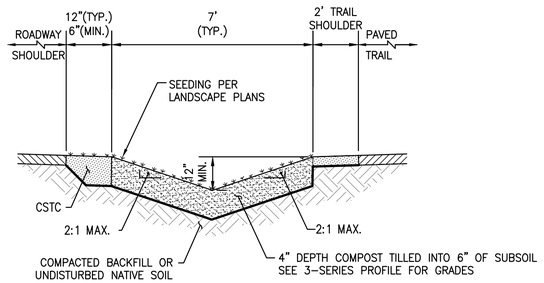
2 TYPICAL SECTION – DRIVEWAY
NOT TO SCALE



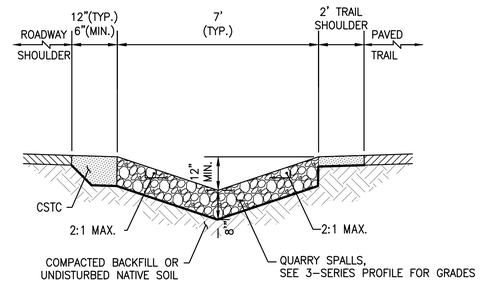
3 TYPICAL SECTION – HMA ENTRY AND TIE–IN PAVEMENT
NOT TO SCALE



4 TYPICAL SECTION – ROADWAY RECONSTRUCTION (BUD PURSER LANE AND PGST ADMIN ENTRY)
NOT TO SCALE



5 TYPICAL SECTION – GRASS–LINED DITCH
NOT TO SCALE



6 ROCK–LINED DITCH (STA 32+93 – STA 36+86)
NOT TO SCALE (PAID AS BID ITEM "QUARRY SPALLS")

TYPICAL SECTION NOTES

1. HMA, CLASS 1/2" PG 64–22.
2. CRUSHED SURFACING TOP COURSE (CSTC).
3. SUBGRADE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D–1557. SUBGRADE TO CONSIST OF UNDISTURBED NATIVE MATERIALS OR STRUCTURAL FILL. STRUCTURAL FILL MATERIAL TO CONSIST OF SUITABLE ON–SITE MATERIALS OR CRUSHED SURFACING BASE COURSE AS DESCRIBED IN SPECIFICATIONS.
4. FINISHED GRADE NOT STEEPER THAN 2H:1V UNLESS NOTED OTHERWISE. SEE LANDSCAPE PLAN FOR RESTORATION DETAILS.
5. CEMENT CONCRETE CURB AND GUTTER PER WSDOT STD PLAN F–10.12–04.
6. RETAINING WALL, LOCATION PER PLANS.
7. SAWCUT EXISTING ASPHALT PAVEMENT, LIMIT AS INDICATED PER 2–SERIES PLANS.
8. MATCH EXISTING DRIVEWAY CROSS–SLOPE, MATCH TRAIL RUNNING SLOPE AT THE EDGE OF TRAIL/BEGINNING OF DRIVEWAY.
9. CRUSHED SURFACING BASE COURSE (CSBC).
10. 1.5% (TYP.) CROSS SLOPE TOWARDS ROADWAY.

GENERAL NOTES

1. ALL DEPTHS SHOWN ARE MINIMUM COMPACTED DEPTHS.
2. ALL COMPACTION SHALL BE 95% OF MAXIMUM DENSITY PER ASTM D–1557.

US POSTAL MAIL BOX TABLE

LOCATION		NUMBER OF RELOCATED US POSTAL MAIL BOXES	NEW SUPPORT TYPE
EXISTING	RELOCATED		
14+12	14+20	2	2
15+32	15+37	1	1
19+81	19+91	2	2
21+41	21+33	1	1
22+38	22+31	2	2
25+19	25+10	3	2
27+71	21+79	2	2
33+03	33+00	2	2
34+09	34+09	1	1
36+77	36+77	2	2
39+63	39+64	3	2
43+57	43+60	2	2
45+45	45+44	2	2
48+94	48+99	2	2
50+21	50+33	2	2
52+05	51+94	2	2
53+84	53+90	1	1

NEW MAIL BOSS 7506 MAIL BOXES, 7121 MOUNT POST ON 4x4 PRESSURE TREATED POST, AND 7144 AND 7140 SPREADER BARS, BLACK, PER PGST EMAIL DATED 9/19/2024

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
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PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TYPICAL SECTIONS
TITLE

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33386
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XREF LIST
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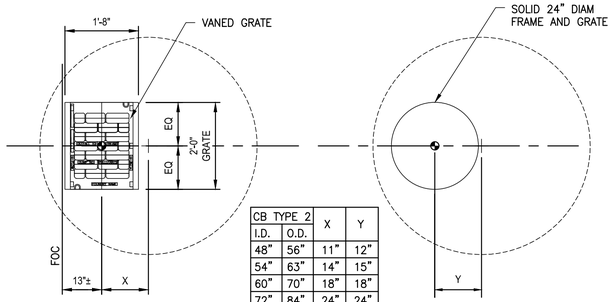


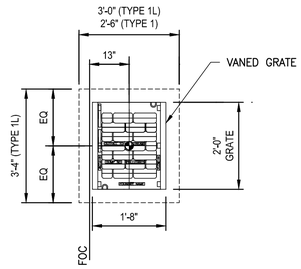
CB TYPE 2		X	Y
I.D.	O.D.		
48"	56"	11"	12"
54"	63"	14"	15"
60"	70"	18"	18"
72"	84"	24"	24"
84"	100"	30"	30"
96"	112"	37"	37"
120"	140"	49"	49"
144"	168"	61"	61"

TYPE 2

KEY

⊙ CENTER OF GRATE

+ CENTER OF STRUCTURE



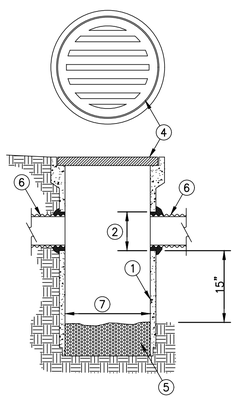
TYPE 1 & TYPE 1L

NOTES:
1. CENTER OF GRATE = CENTER OF STRUCTURE FOR TYPE 1 AND TYPE 1L STRUCTURES ONLY.
2. SPECIFIED NORTHING AND EASTING OR STATION AND OFFSET REFERENCE CENTER OF STRUCTURE FOR ALL DRAINAGE FACILITIES, UNLESS NOTED OTHERWISE.
3. RIM ELEVATION AND STATION/OFFSET OR NORTHING/EASTING REFERENCES ARE TO CENTER OF STRUCTURE.

NOTES:
1. CENTER OF GRATE = CENTER OF STRUCTURE FOR TYPE 1 AND TYPE 1L STRUCTURES ONLY.
2. SPECIFIED NORTHING AND EASTING REFERENCE CENTER OF STRUCTURE FOR ALL DRAINAGE FACILITIES UNLESS OTHERWISE NOTED ON PLANS.

TYPICAL STRUCTURE PLACEMENT DETAIL

NOT TO SCALE

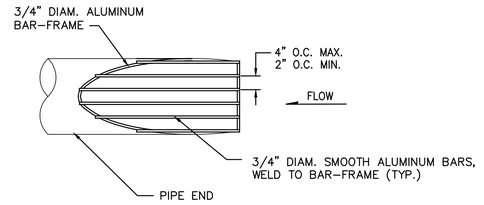


DETAIL NOTES

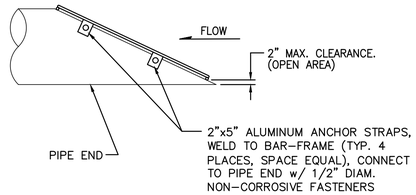
1. AREA DRAINS TO BE CONSTRUCTED FROM CONCRETE PIPE, IN ACCORDANCE WITH ASTM C14 OR APPROVED EQUAL.
2. CUTOUT HOLE SIZE EQUAL TO OUTLET PIPE OUTSIDE DIAMETER PLUS YARD DRAIN WALL THICKNESS.
3. CONNECTION TO OUTLET PIPE TO BE MORTARED AND MADE FLUSH WITH INSIDE OF THE YARD DRAIN WALL.
4. CAST IRON BELL GRATE. FITS INTO BELL RECESS AND EXTENDS FLUSH WITH FACE OF BELL. THE GRATE SHALL BE ADA COMPLIANCE AND SHALL HAVE SLOTS (HOLES) THAT CONSTITUTE 50 PERCENT OPEN AREA FOR DRAINAGE. INLET BELL SURFACE SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER.
5. FILL BOTTOM WITH CONCRETE 4 INCHES MIN.
6. CONVEYANCE PIPE, SIZE PER PLANS
7. 12" DIAM FOR 8" OR SMALLER CONVEYANCE PIPES, 18" DIAM FOR 10" TO 12" CONVEYANCE PIPES.

AREA DRAIN

NOT TO SCALE



PLAN

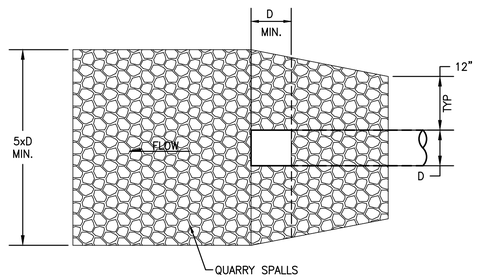


ELEVATION

NOTE:
1. ALL METAL FASTENERS SHALL BE GALVANIZED IN MANUFACTURE OR APPROVED EQUAL TREATMENT FOR CORROSION PROTECTION.

TRASH RACK

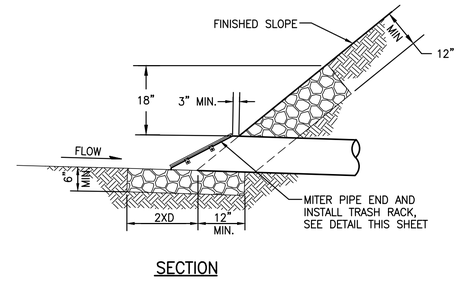
NOT TO SCALE



PLAN

PIPE OUTFALL PROTECTION

NOT TO SCALE



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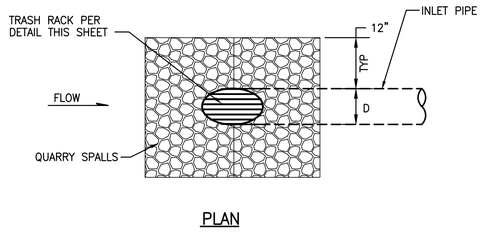
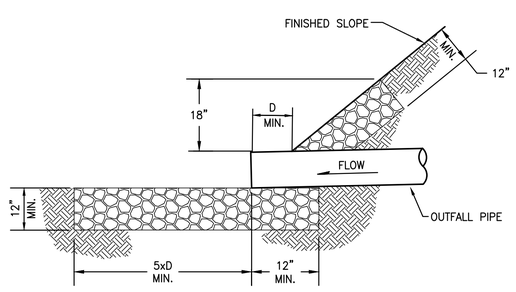


PLAN

PIPE INLET PROTECTION

NOT TO SCALE



SECTION

PIPE OUTFALL PROTECTION

NOT TO SCALE

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MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

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LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRAINAGE DETAILS

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SHEET 23 OF 74

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XREF_LIST
_OTAK22X34_ENGR
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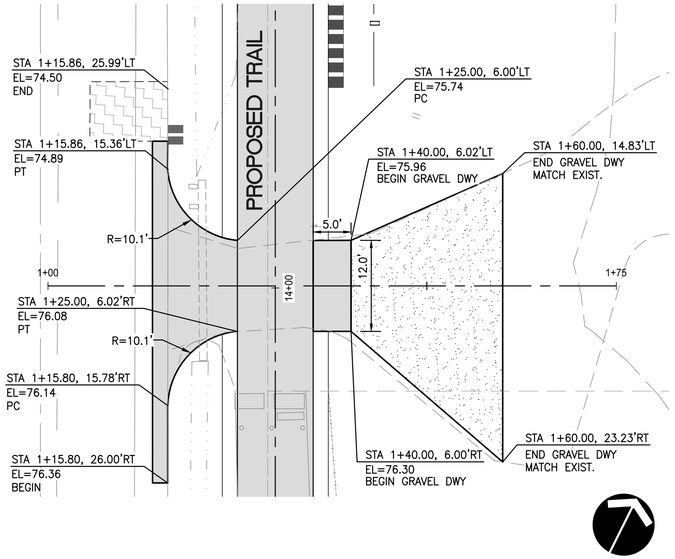
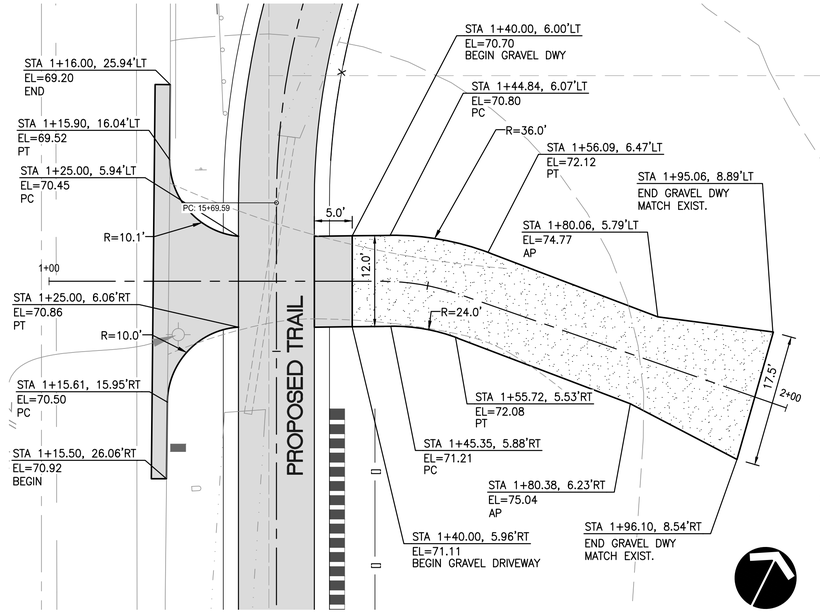
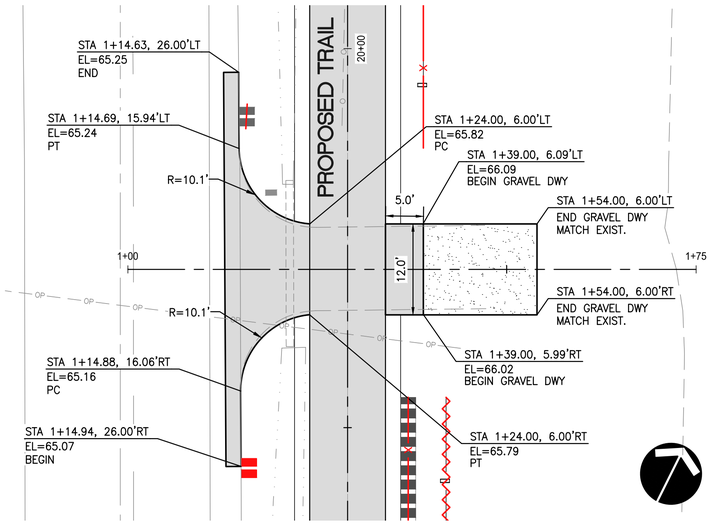
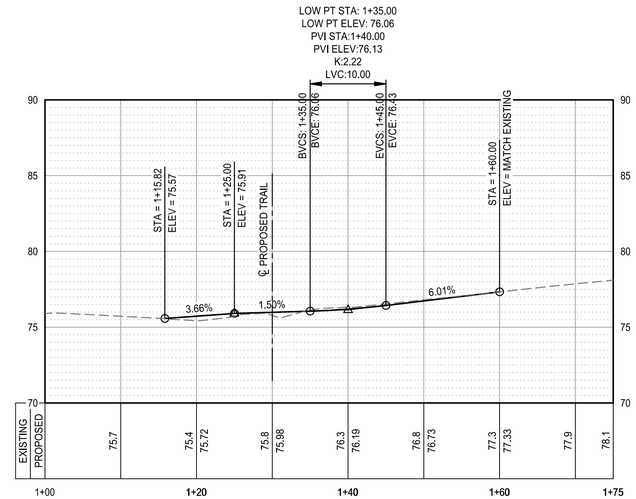
33386R500
SHEET-LAYOUT
BASEMAP
33386U630
33386X800
33386G450
33386-HOUSES
PROF







DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 470 CY



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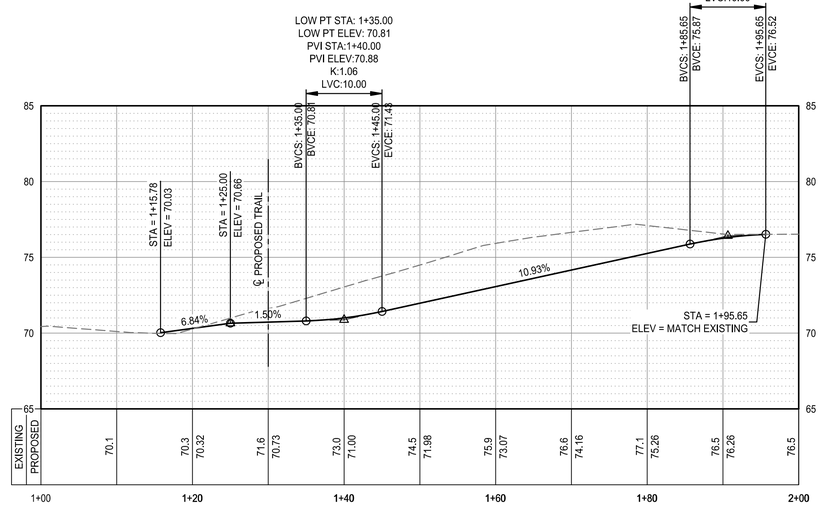
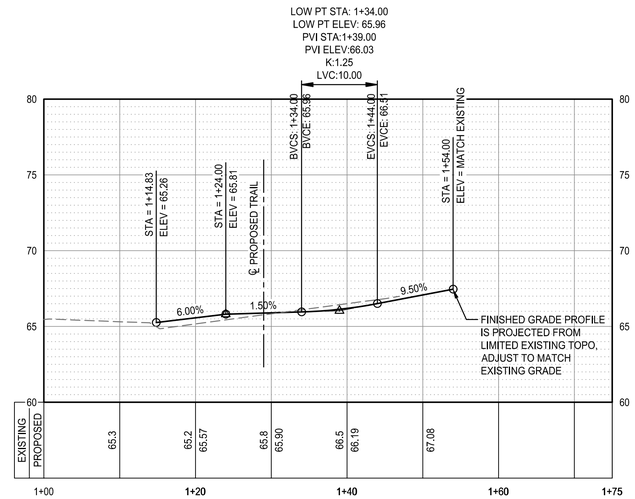


HIGH PT STA: 1+95.65
HIGH PT ELEV: 76.52
PVI STA:1+90.65
PVI ELEV:76.42
K:1.12
LVC:10.00

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION APPROXIMATELY: 5 CY



DWY 1 - (HOUSE #30854) PROFILE: STA 1+00-1+75

DWY 2 - (HOUSE #30854) PROFILE: STA 1+00-2+00

DWY 3 - (HOUSE #30970) PROFILE: STA 1+00-1+75

SEE 1-SERIES SHEETS FOR
DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE IN FEET: 10 0 10 20
VERT SCALE IN FEET: 5 0 5 10

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
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PROFESSIONAL ENGINEER

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YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - #1 TO #3

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.12
DRAWING NO.

SHEET 24 OF 74

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Plotted: Sep 26, 2025 - 4:53pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.12-3.19.dwg Layout Name: 3.12

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SHEET-LAYOUT
BASEMAP
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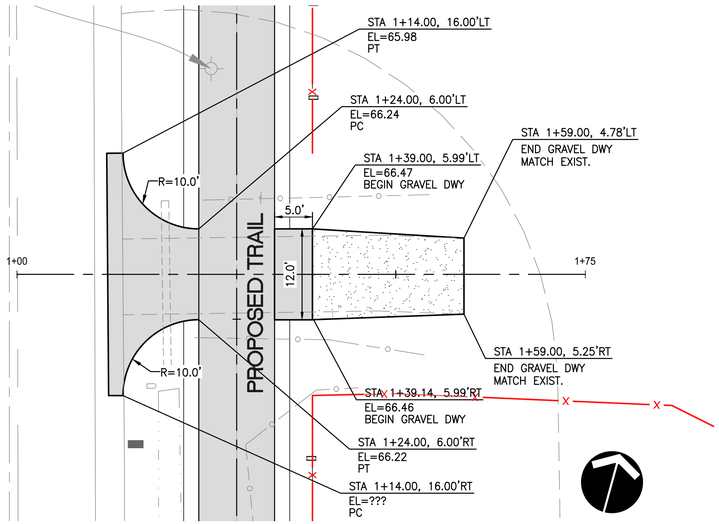
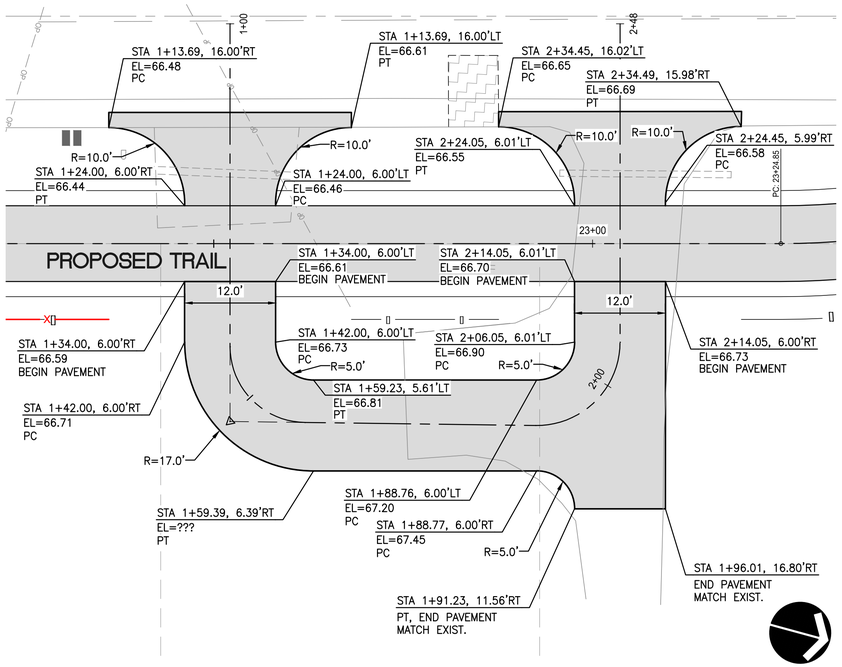
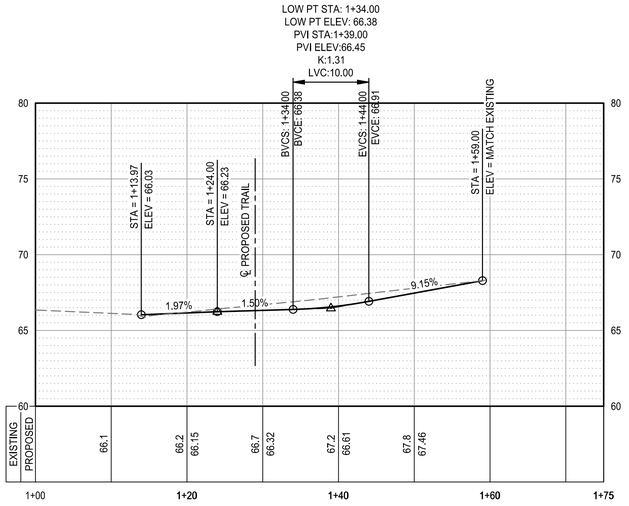
33386C450
33386-HOUSES
PROF



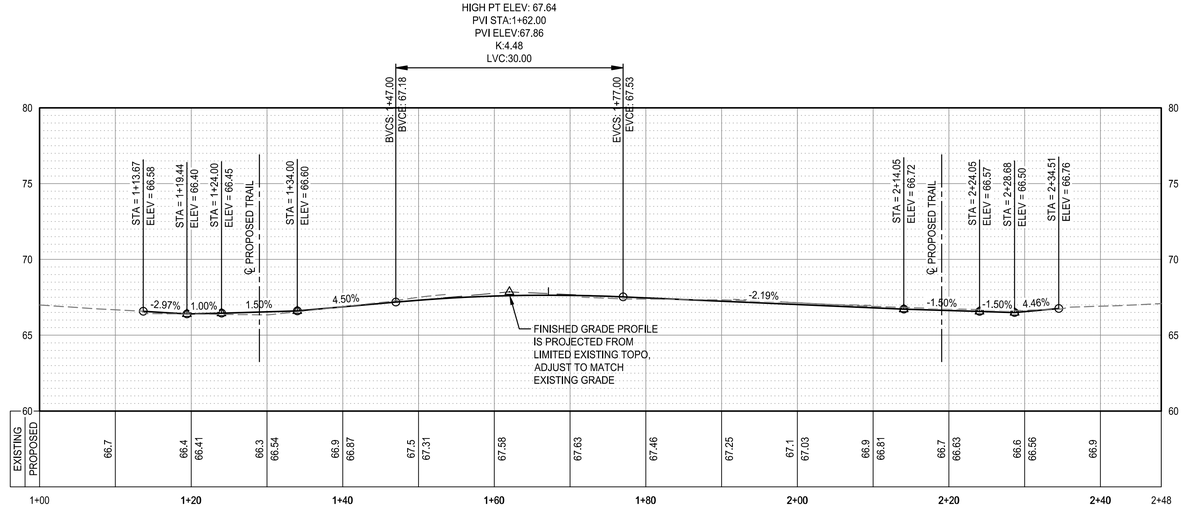
DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 10 CY



DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 26 CY



DWY 4 - (HOUSE #30996) PROFILE: STA 1+00-1+75



DWY 5 - (HOUSE #31030) PROFILE: STA 1+00-2+50

HORZ SCALE: 10 0 10 20 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

SEE 1-SERIES SHEETS FOR
DRIVEWAY ALIGNMENT CONTROL

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - #4, #5

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.13
DRAWING NO.

SHEET 25 OF 74

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Plotted: Sep 26, 2025 - 4:53pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.12-3.19.dwg Layout Name: 3.13

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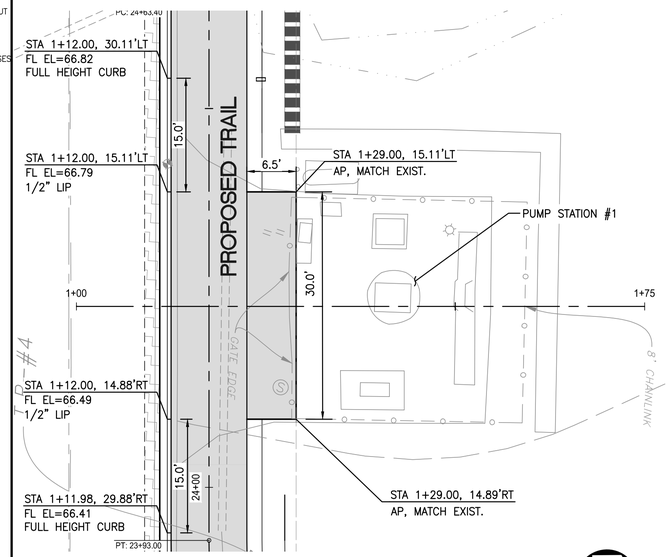
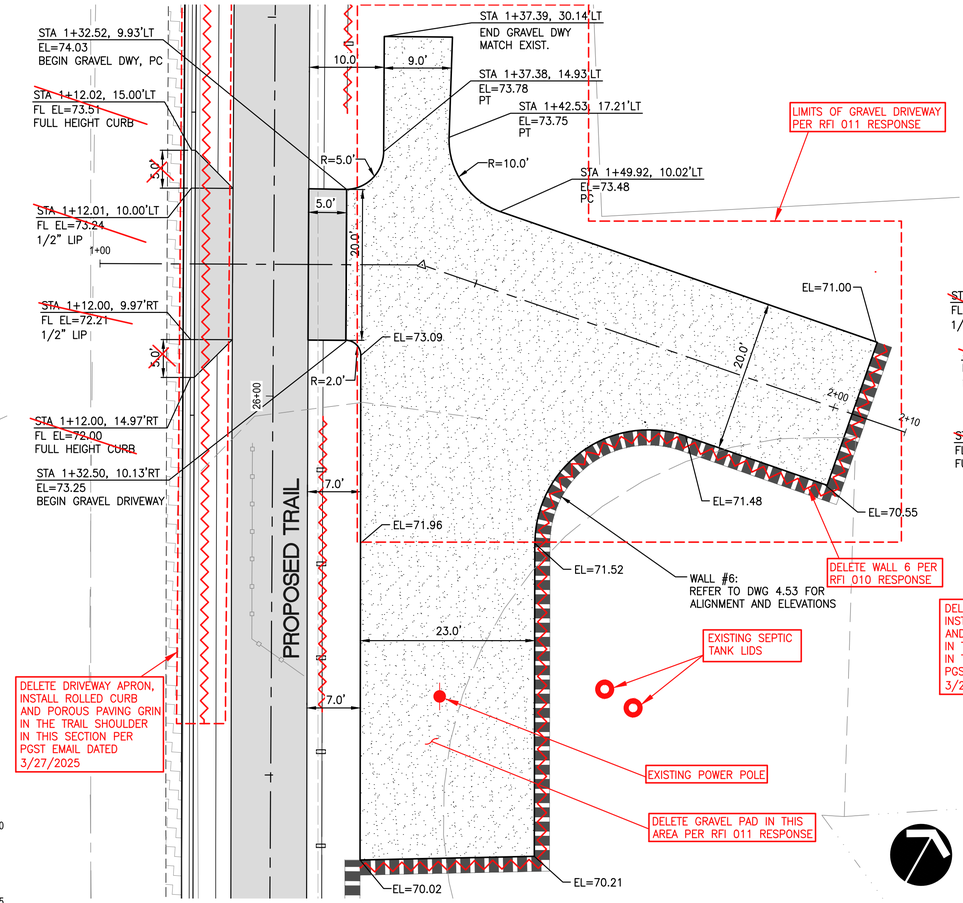
PROF

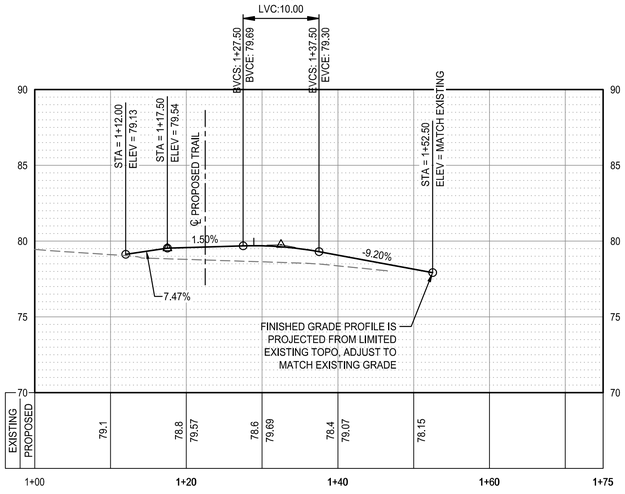




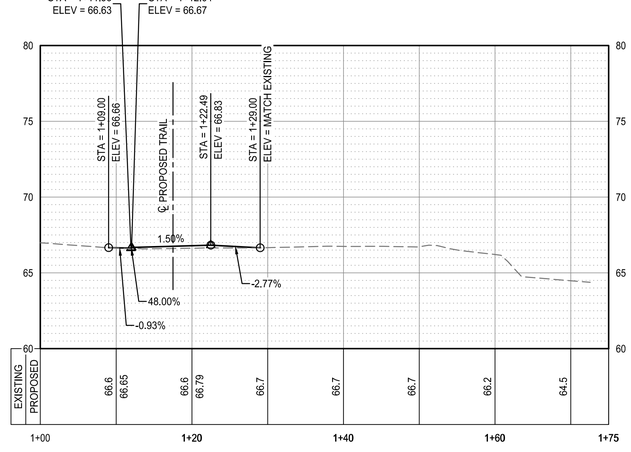
DELETE DRIVEWAY APRON, INSTALL ROLLED CURB AND POROUS PAVING GRIN IN THE TRAIL SHOULDER IN THIS SECTION PER PGST EMAIL DATED 3/27/2025

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
STRUCTURAL FILL BELOW SUBGRADE:
APPROXIMATELY 5 CY

HIGH PT STA: 1+28.90
HIGH PT ELEV: 79.70
PVI STA:1+32.50
PVI ELEV:79.76
K:0.93
LVC:10.00



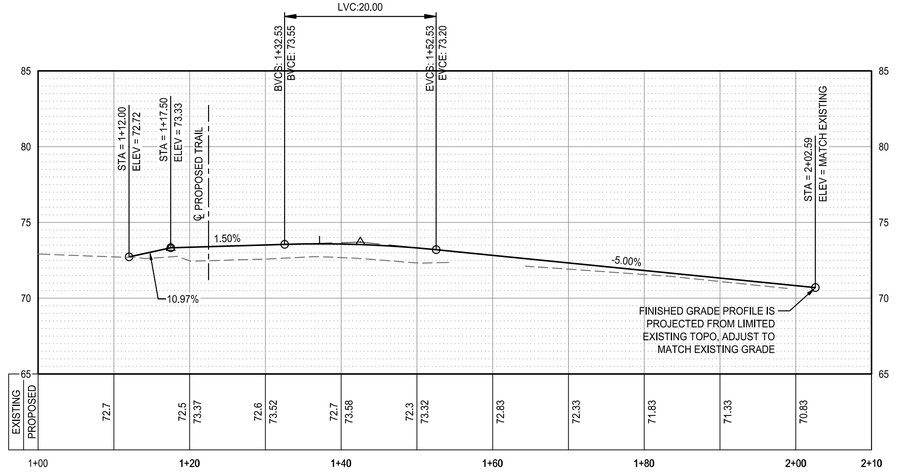
DWY 7 - (HOUSE #31130) PROFILE: STA 1+00-1+75



PUMP STATION #1 DWY PROFILE: STA 1+00-1+75

HIGH PT STA: 1+37.15
HIGH PT ELEV: 73.59
PVI STA:1+42.53
PVI ELEV:73.70
K:3.08
LVC:20.00

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: 2 CY
STRUCTURAL FILL BELOW SUBGRADE:
APPROXIMATELY 55 CY



DWY 6 - (HOUSE #31060) PROFILE: STA 1+00-2+10

SEE 1-SERIES SHEETS FOR DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE 10 0 10 20 IN FEET
VERT SCALE 5 0 5 10 IN FEET

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE

LITTLE BOSTON ROAD PEDESTRIAN TRAIL

DRIVEWAY LAYOUT - PS #1, #6, & #7

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.14
DRAWING NO.

SHEET 26 OF 74

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Plotted: Sep 26, 2025 - 4:53pm O:\PROJECT\33300\33386\CADD\Dwg\Asbuilts\33386\3.12-3.19.dwg Layout Name: 3.14

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33386R500
SHEET-LAYOUT
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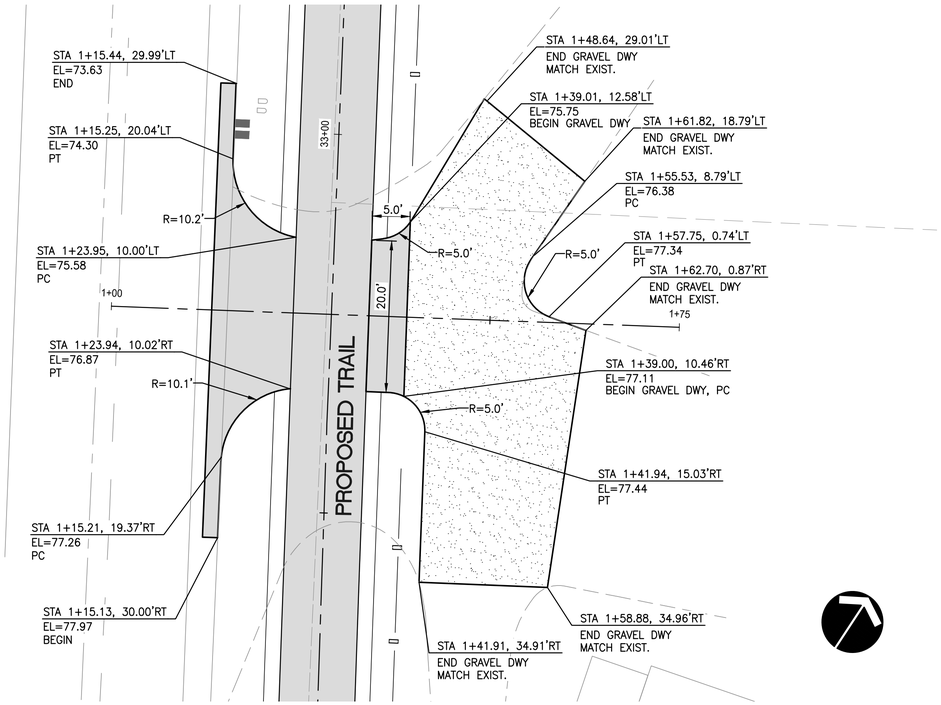
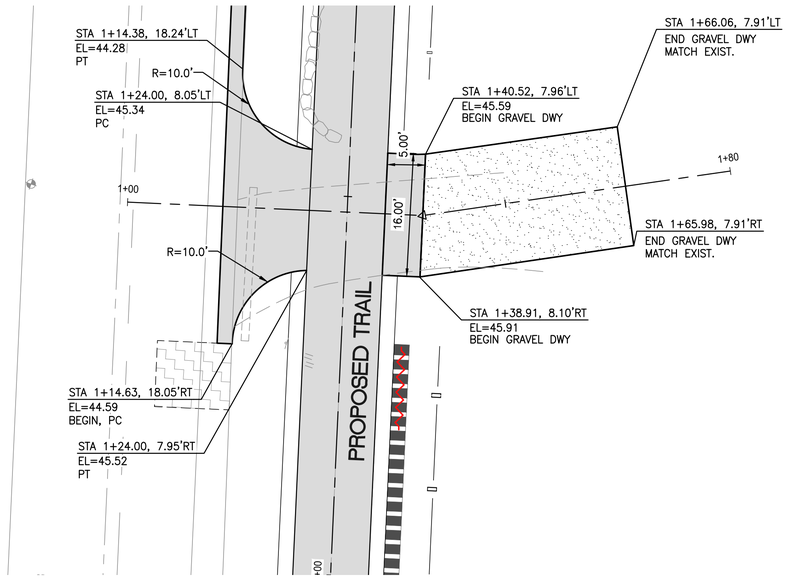
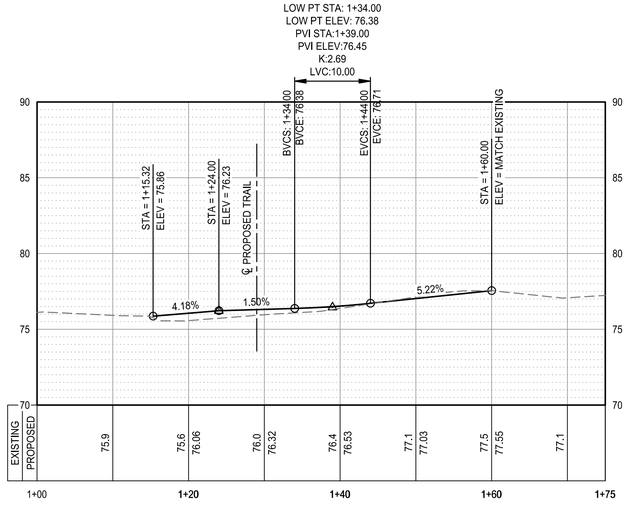
33386G450
33386-HOUSES
PROF



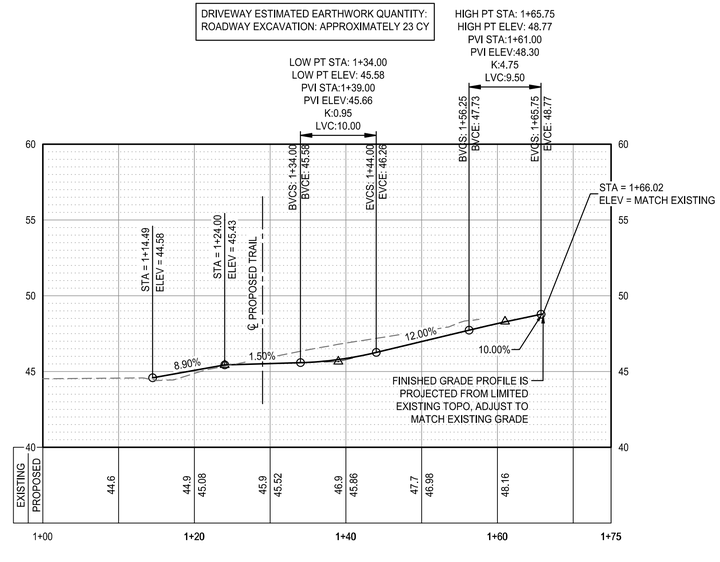


DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 25 CY



DWY 8 - (HOUSE #31180) PROFILE: STA 1+00-1+75

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 23 CY



DWY 9 - (HOUSE #31460) PROFILE: STA 1+00-1+75

SEE 1-SERIES SHEETS FOR
DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE IN FEET: 10 0 10 20
VERT SCALE IN FEET: 5 0 5 10

811 Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - #8, #9

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.15
DRAWING NO.

SHEET 27 OF 74

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Plotted: Sep 26, 2025 - 4:54pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.12-3.19.dwg Layout Name: 3.15

XREF_LIST
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SHEET-LAYOUT
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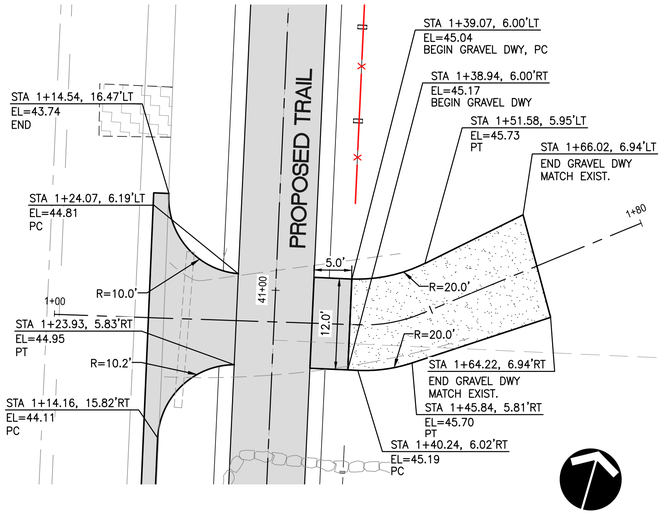
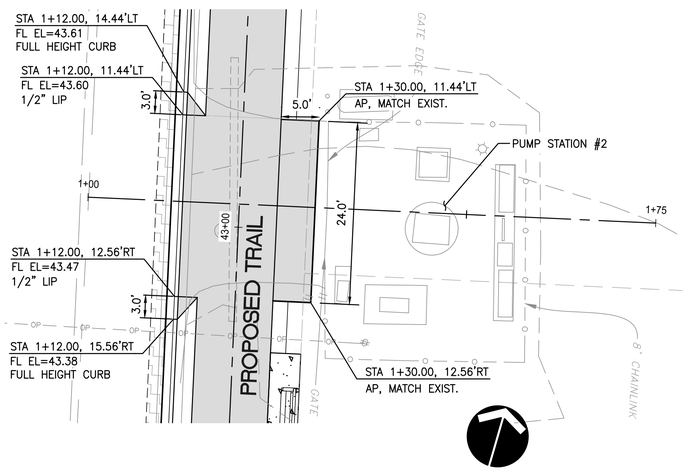
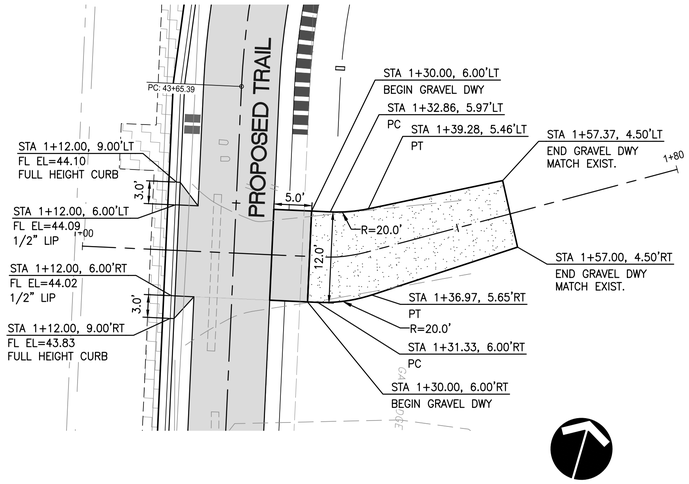
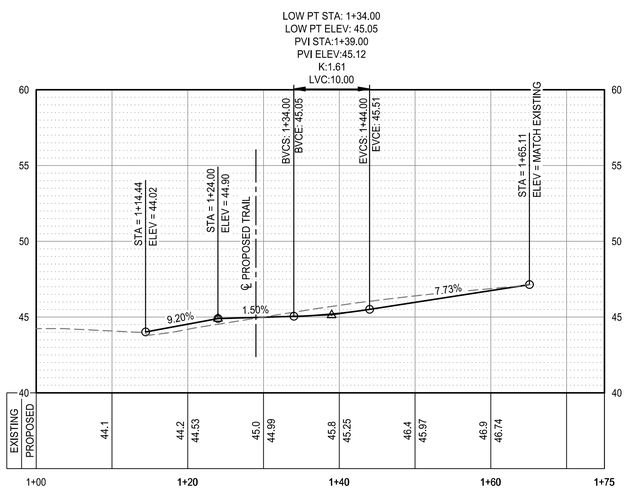
33386-HOUSES
PROF



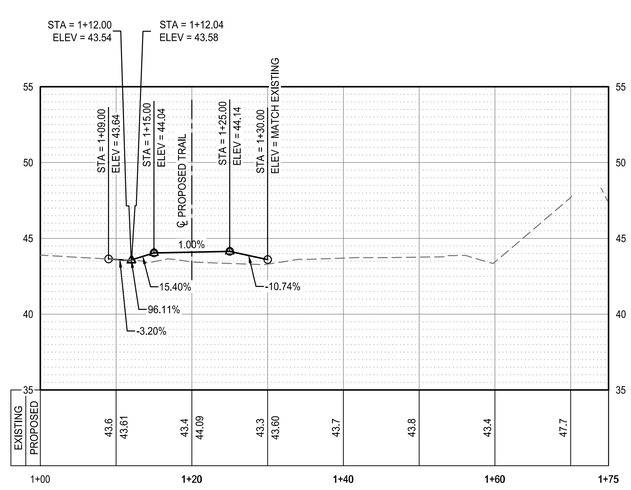




DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 13 CY

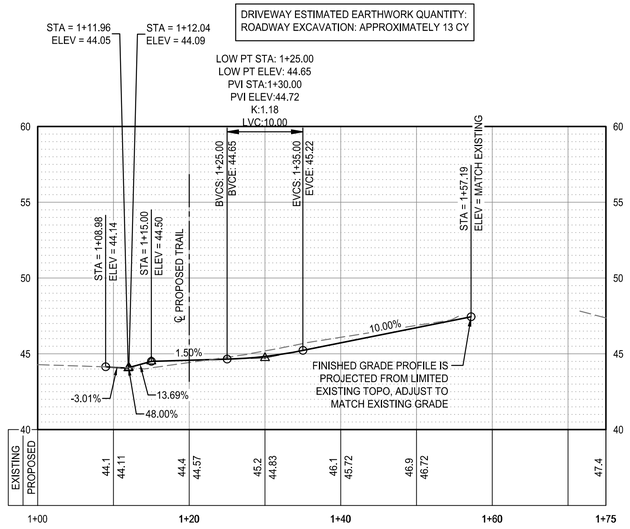


DWT 10 - (HOUSE #31570) PROFILE: STA 1+00-1+75



PUMP STATION #2 DWY PROFILE: STA 1+00-1+75

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 13 CY



DWY 11 - (HOUSE #31692) PROFILE: STA 1+00-1+75

SEE 1-SERIES SHEETS FOR
DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE 10 0 10 20 IN FEET
VERT SCALE 5 0 5 10 IN FEET

811 Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - PS #2, #10, & #11

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.16
DRAWING NO.

SHEET 28 OF 74

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Plotted: Sep 26, 2025 - 4:54pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.12-3.19.dwg Layout Name: 3.16

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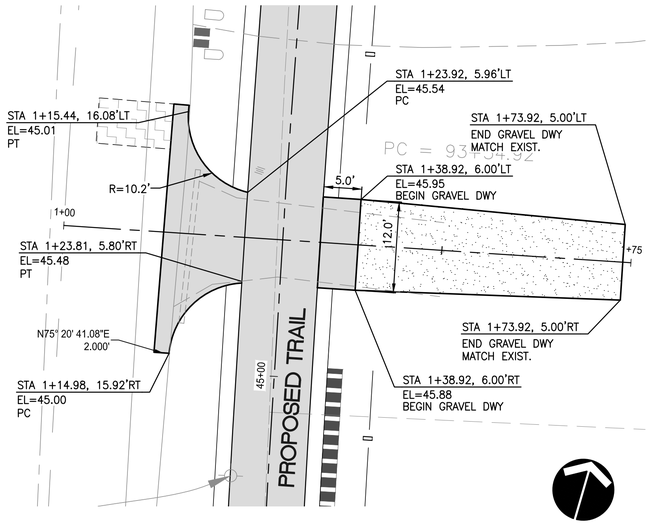
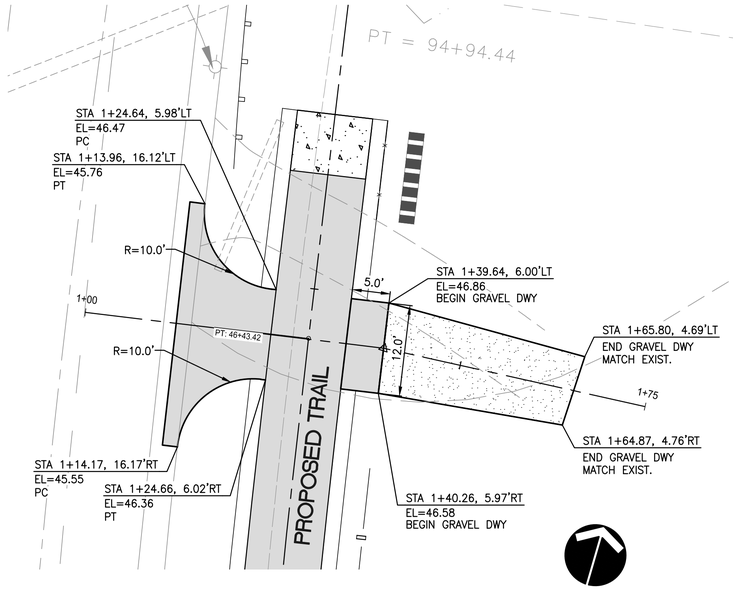
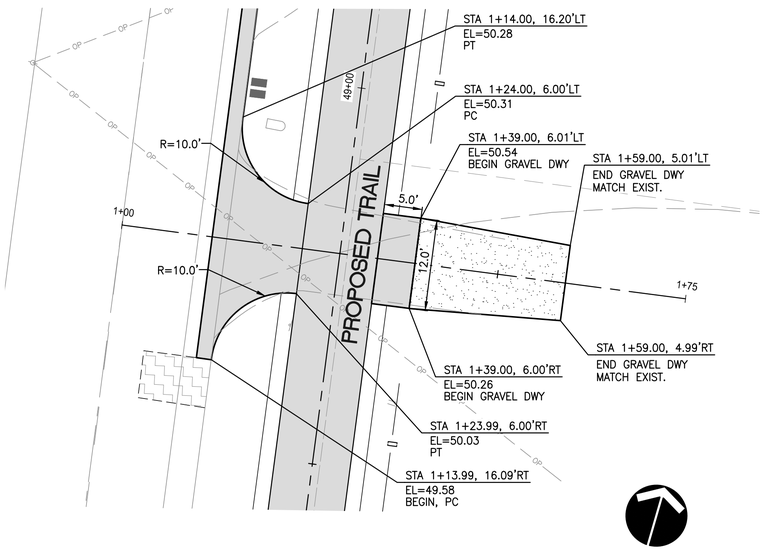
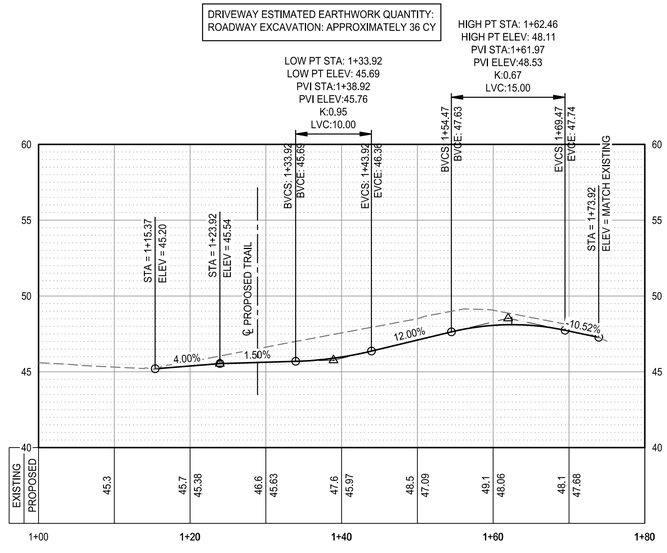
PROF





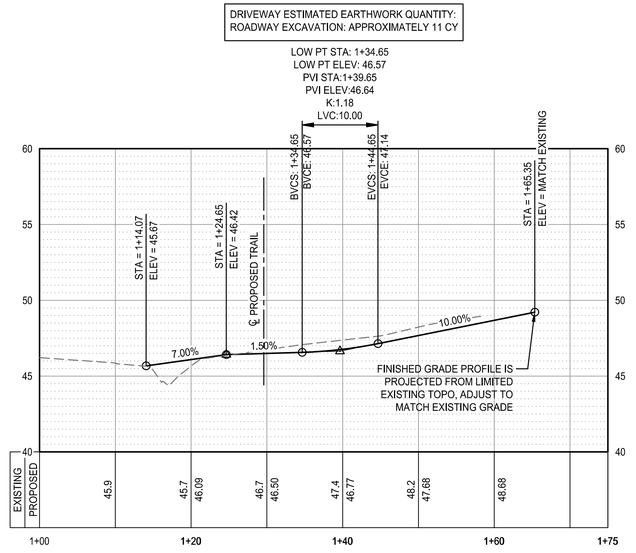


DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 36 CY



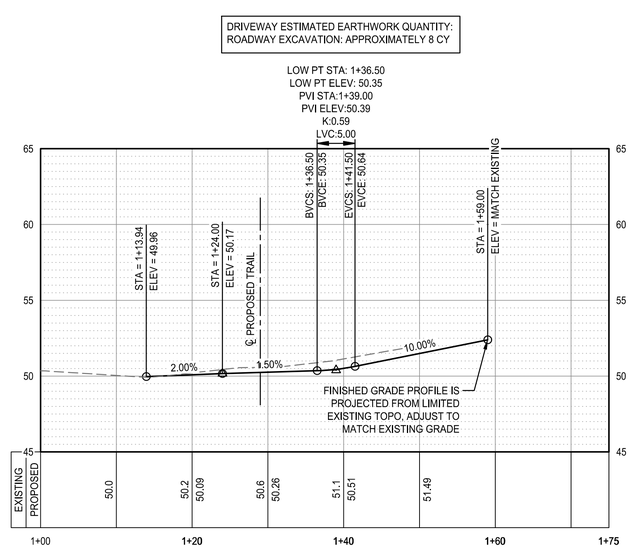
DWY 12 - (HOUSE #31692) PROFILE: STA 1+00-1+75

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 11 CY



DWY 13 - (HOUSE #31692) PROFILE: STA 1+00-1+75

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 8 CY



DWY 14 - (HOUSE #31684) PROFILE: STA 1+00-1+75

SEE 1-SERIES SHEETS FOR
DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE: 10 0 10 20 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

Know what's below. Call before you dig.

DESIGNER | DRAWN BY | CHECKED BY

NO.	REVISION COMMENTS	BY	REVIEW	DATE

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - #12 TO #14

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.17
DRAWING NO.

SHEET 29 OF 74

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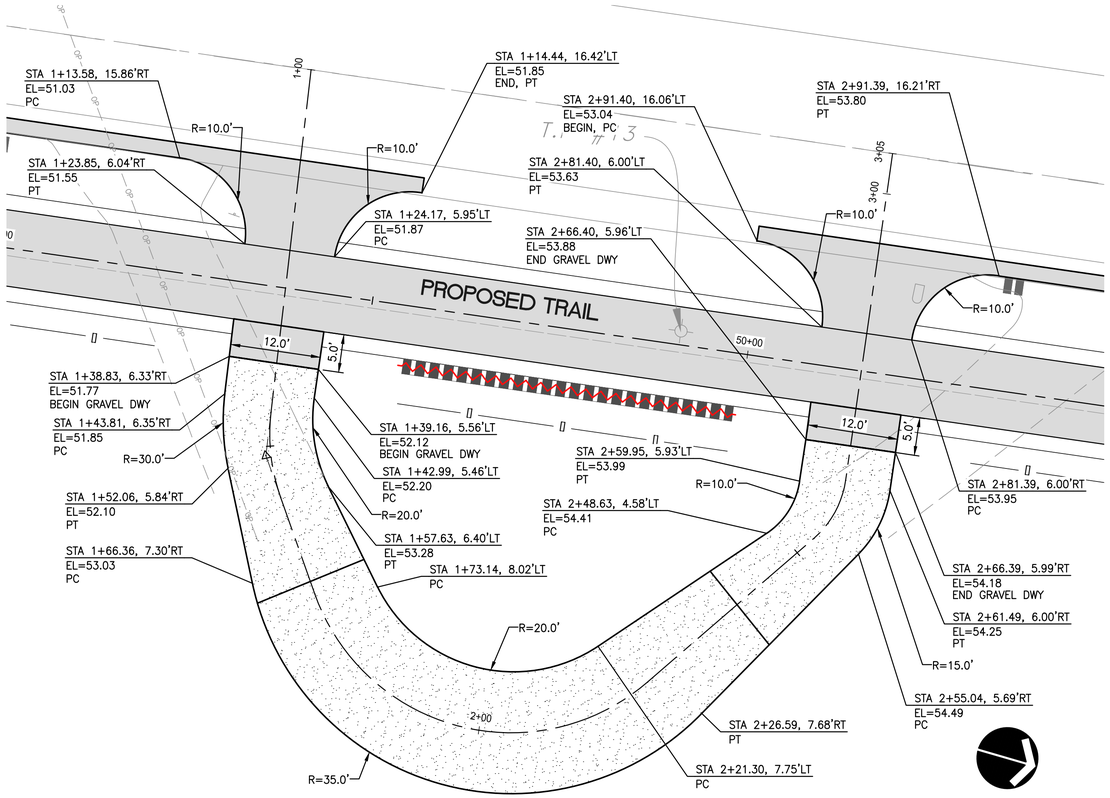

DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 77 CY



DWY 15 - (HOUSE #31722) PROFILE: STA 1+00-3+00

SEE 1-SERIES SHEETS FOR DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE 10 0 10 20 IN FEET
VERT SCALE 5 0 5 10 IN FEET

Know what's below. Call before you dig.

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MARK D. COLE
STATE OF WASHINGTON
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PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - #15

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.18
DRAWING NO.

SHEET 30 OF 74

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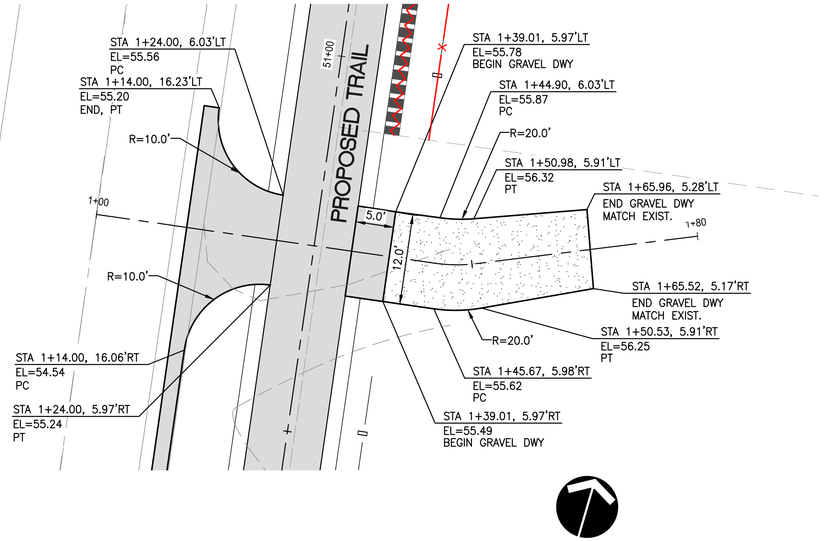

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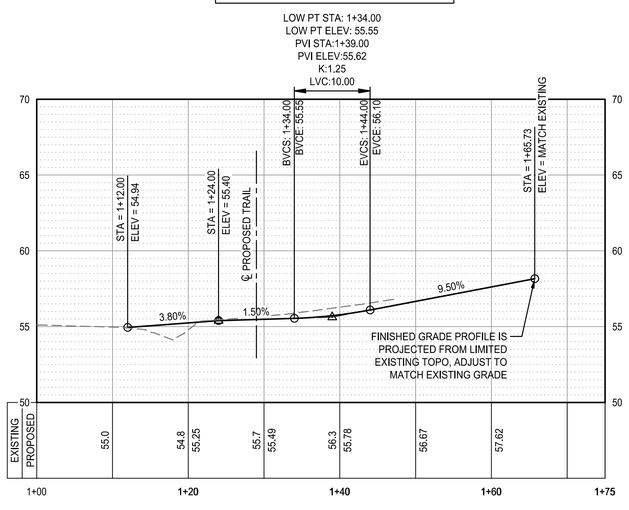
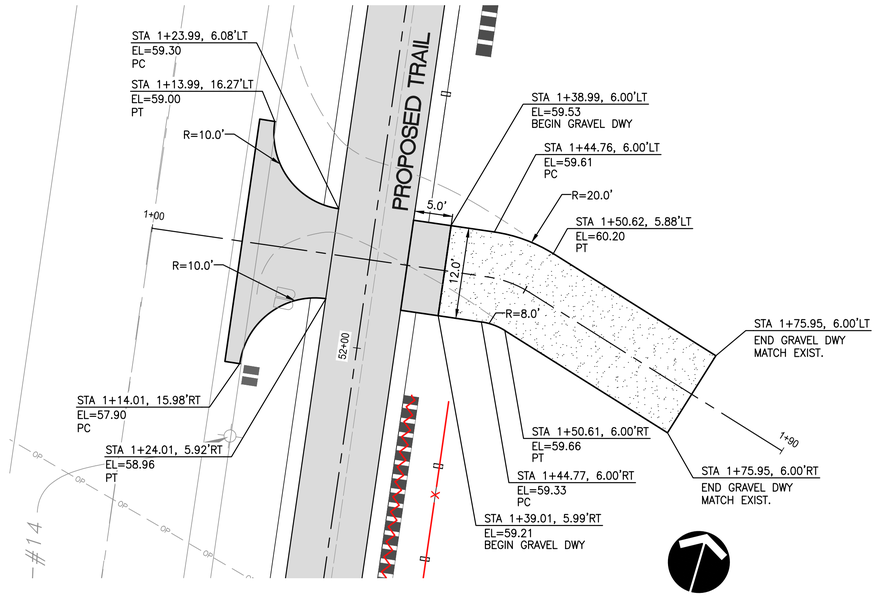
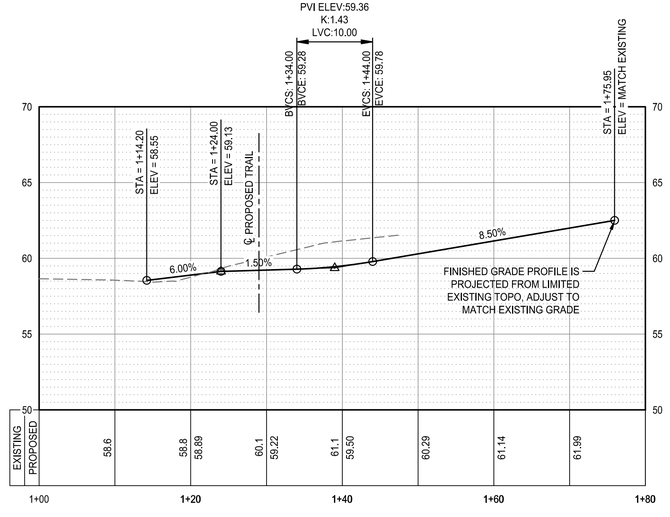
ROADWAY EXCAVATION: APPROXIMATELY 7 CY



DWY 16 - (HOUSE #31790) PROFILE: STA 1+00-1+75



DRIVEWAY ESTIMATED EARTHWORK QUANTITY:
ROADWAY EXCAVATION: APPROXIMATELY 15 CY



DWY 17 - (HOUSE #31790) PROFILE: STA 1+00-1+75

SEE 1-SERIES SHEETS FOR
DRIVEWAY ALIGNMENT CONTROL

HORZ SCALE: 10 0 10 20 IN FEET
VERT SCALE: 5 0 5 10 IN FEET

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MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
DRIVEWAY LAYOUT - #16, #17

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.19
DRAWING NO.

SHEET 31 OF 74

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Plotted: Sep 26, 2025 - 4:54pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\3.12-3.19.dwg Layout Name: 3.19

XREF LIST
_OTAK22X34_ENGR
33386R270
BASEMAP
33386N030
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33386-HOUSES
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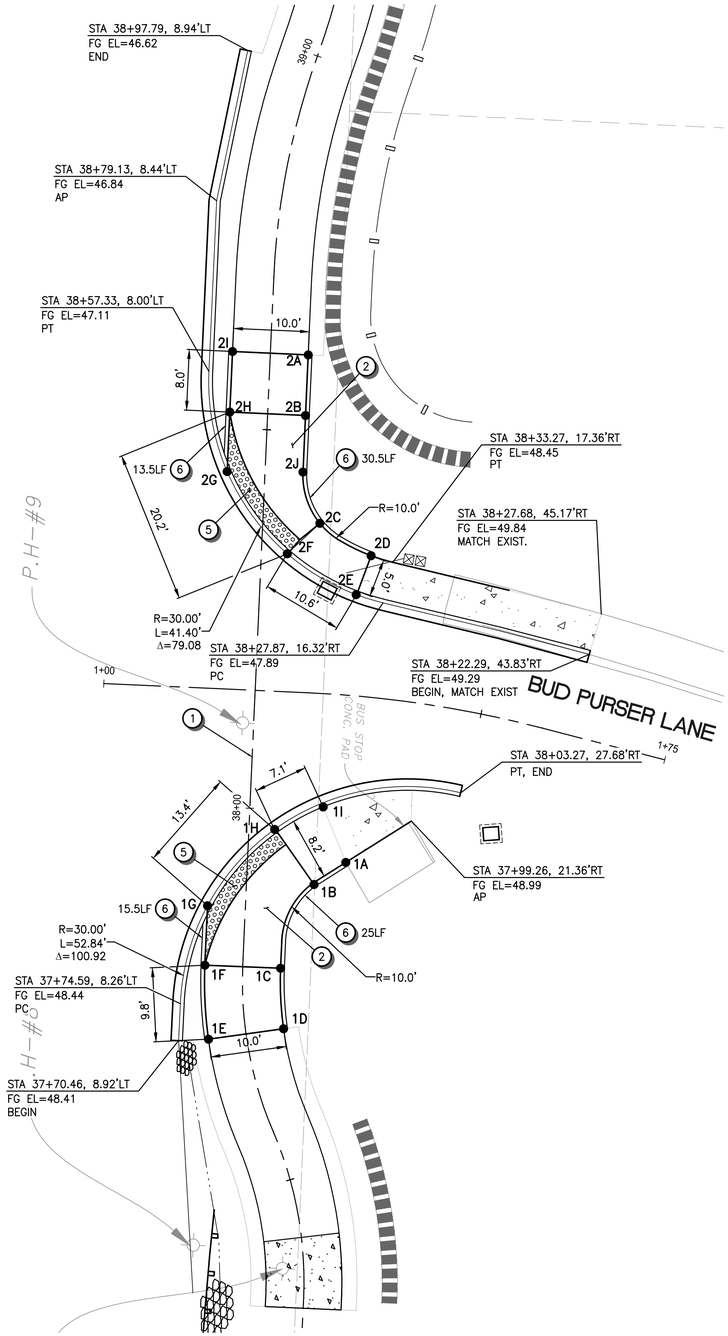
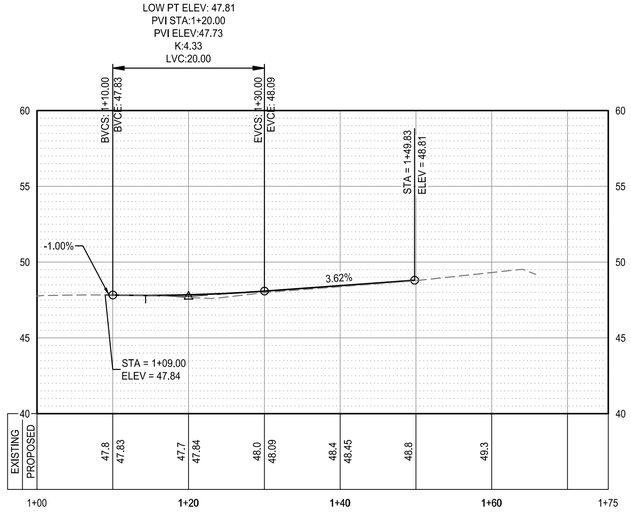
PROF
33386U630



CURB RAMP POINTS

POINT	STATION AND OFFSET	ELEVATION
1A	37+93.42, 12.97' RT	49.04'
1B	37+90.32, 8.91' RT	48.68'
1C	37+79.06, 5.00' RT	48.58'
1D	37+70.16, 5.00' RT	48.91'
1E	37+70.16, 5.00' LT	48.76'
1F	37+79.06, 5.00' LT	48.50'
1G	37+86.89, 5.00' LT	48.48' FL
1H	37+97.35, 3.40' RT	48.53' FL
1I	38+00.61, 9.66' RT	48.47' FL, 48.97' TFC
2A	38+60.10, 5.00' RT	47.76'
2B	38+52.10, 5.00' RT	47.50'
2C	38+37.97, 7.54' RT	47.64'
2D	38+34.01, 14.48' RT	48.30'
2E	38+28.79, 12.75' RT	47.71' FL, 48.21' TFC
2F	38+33.77, 3.42' RT	47.54' FL
2G	38+44.25, 5.00' LT	47.32' FL
2H	38+52.10, 5.00' LT	47.36'
2I	38+60.10, 5.00' LT	47.61'
2J	38+44.63, 5.00' RT	47.50'



BUD PURSER LANE PROFILE: STA 1+00-1+75

CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE DWGS 1.03-1.07 FOR HORIZONTAL CONTROL.
2. INSTALL TYPE PARALLEL A CURB RAMP PER WSDOT STD PLAN F-40.12-03.
3. NOT USED.
4. NOT USED.
5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F-45.10-04.
6. INSTALL PEDESTRIAN CURB PER WSDOT STD PLAN F-10.12-04.

GENERAL NOTES

1. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED.
2. STATION AND OFFSET REFERENCES ALONG CURB LINE ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
3. GAPS NOT TO EXCEED 2-INCHES BETWEEN DETECTABLE WARNING SURFACE SECTIONS.

SEE 1-SERIES SHEETS FOR BUD PURSER LANE ALIGNMENT CONTROL

HORZ SCALE 10 0 10 20 IN FEET

VERT SCALE 5 0 5 10 IN FEET

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STATE OF WASHINGTON
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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BUS PURSER LANE INTERSECTION

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.20
DRAWING NO.

SHEET 32 OF 74

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XREF LIST
_OTAK22X34_ENGR
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33386N030
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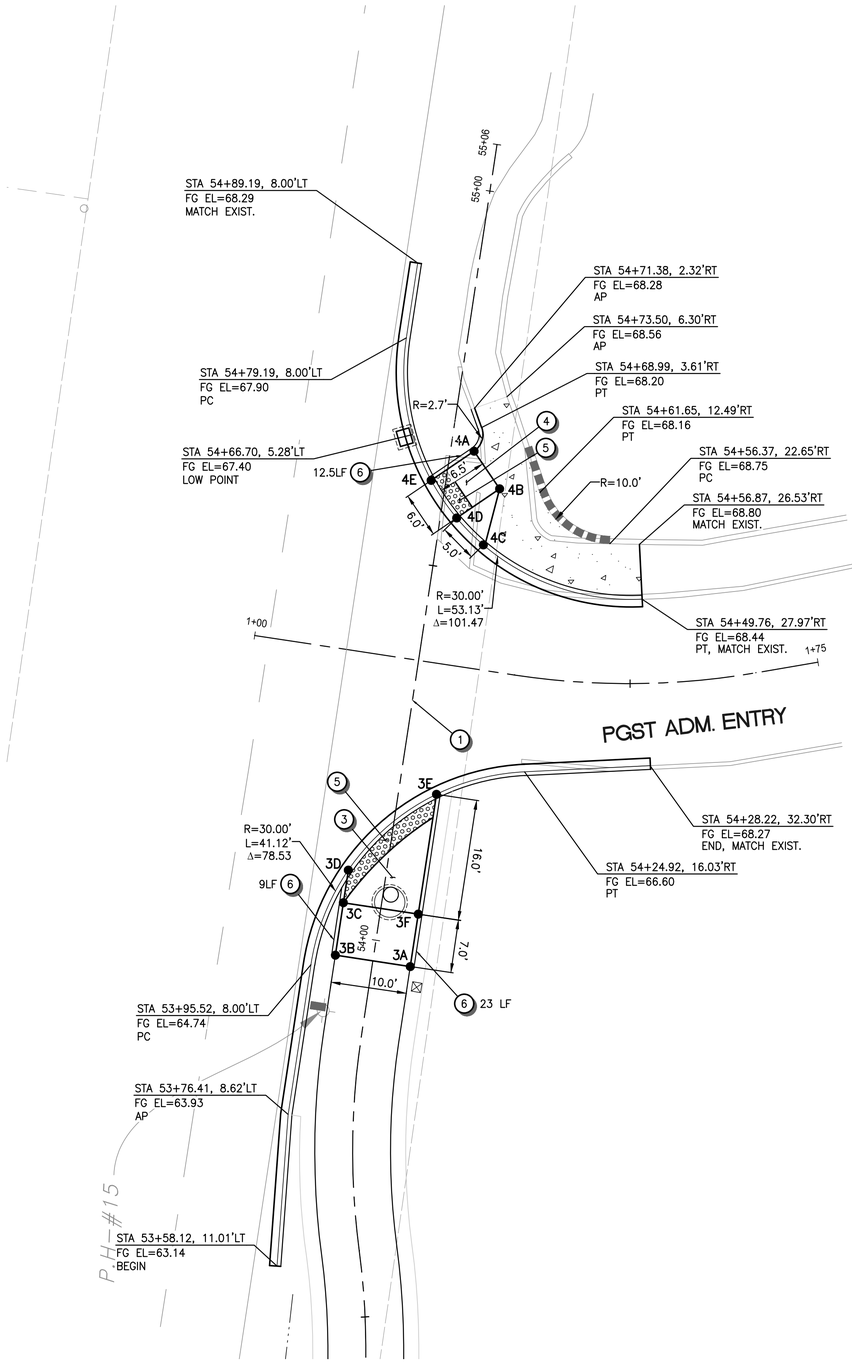
33386-HOUSES
33386C450
PROF
33386U630



CURB RAMP POINTS

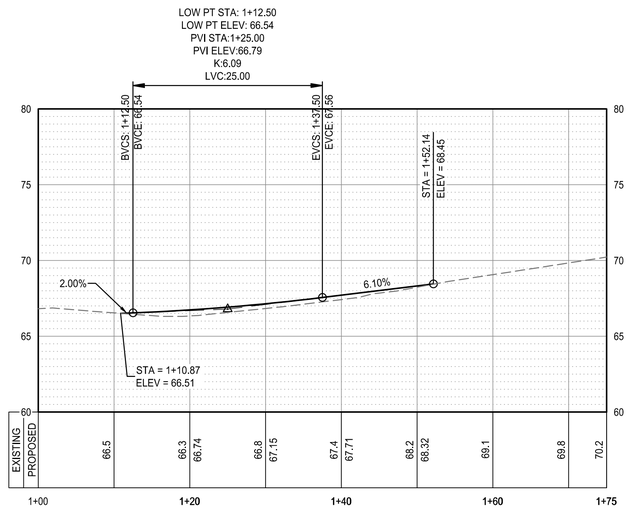
POINT	STATION AND OFFSET	ELEVATION
3A	53+97.24, 5.00' RT	65.50'
3B	53+97.24, 5.00' LT	65.35'
3C	54+04.24, 5.00' LT	65.41'
3D	54+08.59, 5.00' LT	65.33' FL
3E	54+20.23, 5.00' RT	65.60' FL
3F	54+04.24, 5.00' RT	65.60'
4A	54+65.75, 3.09' RT	67.90'
4B	54+61.35, 7.17' RT	67.88'
4C	54+53.71, 6.16' RT	47.48' FL, 47.98' TFC
4D	54+56.69, 2.15' RT	67.46' FL
4E	54+61.09, 1.93' LT	67.43' FL

CONSTRUCTION NOTES

1. CONSTRUCTION CENTERLINE, SEE DWGS 1.03–1.07 FOR HORIZONTAL CONTROL.
2. NOT USED.
3. INSTALL TYPE SINGLE DIRECTION A CURB RAMP PER WSDOT STD PLAN F–40.16–03.
4. INSTALL TYPE PERPENDICULAR A CURB RAMP PER WSDOT STD PLAN F–40.15–04.
5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD PLAN F–45.10–04.
6. INSTALL PEDESTRIAN CURB PER WSDOT STD PLAN F–10.12–04.

GENERAL NOTES

1. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED.
2. STATION AND OFFSET REFERENCES ALONG CURB LINE ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
3. GAPS NOT TO EXCEED 2–INCHES BETWEEN DETECTABLE WARNING SURFACE SECTIONS.



PGST ADM. ENTRY PROFILE: STA 1+00–1+75

SEE 1-SERIES SHEETS FOR PGST ADM. ENTRY ALIGNMENT CONTROL

HORZ SCALE 10 0 10 20 IN FEET

VERT SCALE 5 0 5 10 IN FEET

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
PGST ADM ENTRY INTERSECTION

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

3.21
DRAWING NO.

SHEET 33 OF 74

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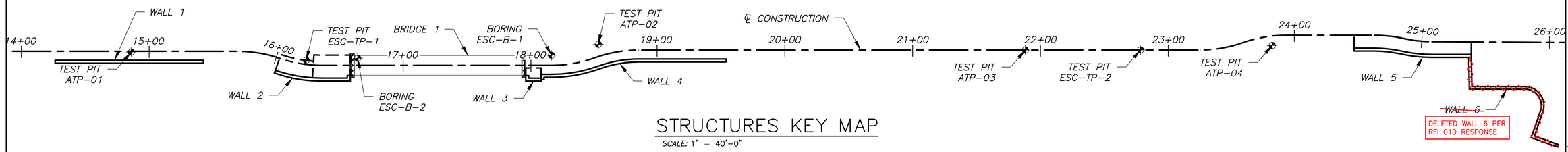
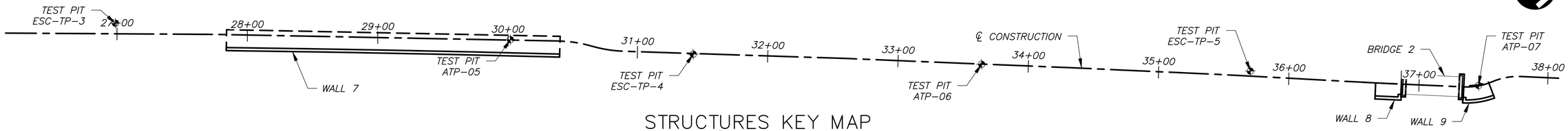
XREF LIST
_OTAK22X34_ENGR
33386R500
33386R270
33386X800



STRUCTURES KEY MAP

SCALE: 1" = 40'–0"



STRUCTURES KEY MAP

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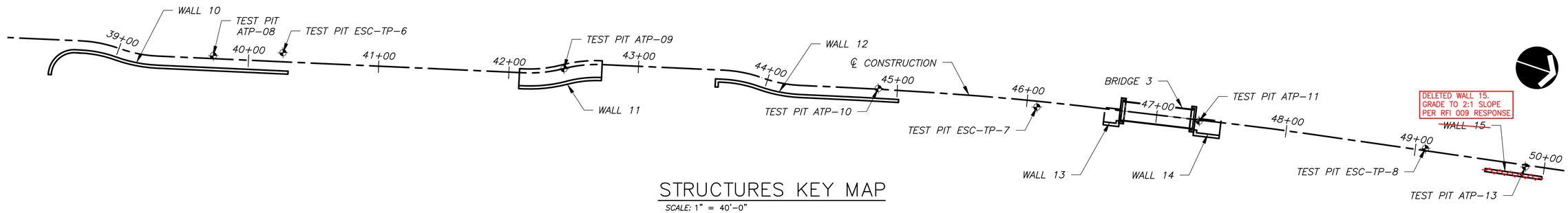
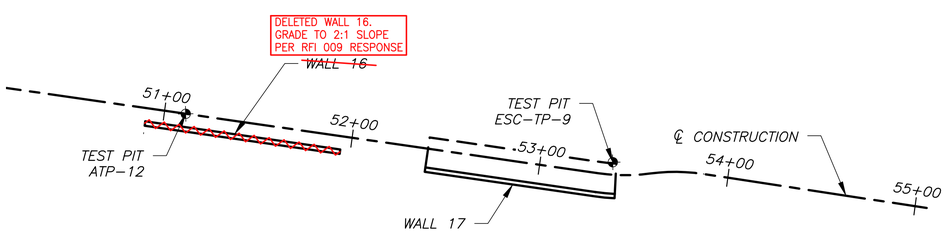


STRUCTURES KEY MAP

SCALE: 1" = 40'–0"



STRUCTURES KEY MAP

SCALE: 1" = 40'–0"

NOTES:
1. SEE DWG. NO. 4.02 FOR BRIDGE AND RETAINING WALL GENERAL NOTES.
2. SEE DWG. NO. 4.10 – 4.14 FOR BRIDGE 1 LAYOUT AND DETAILS.
3. SEE DWG. NO. 4.20 – 4.22 FOR BRIDGE 2 LAYOUT AND DETAILS.
3. SEE DWG. NO. 4.30 – 4.31 AND 4.22 FOR BRIDGE 3 LAYOUT AND DETAILS.
4. SEE DWG. NO. 4.40 FOR BRIDGE TYPICAL SECTION.
5. SEE DWG. NO. 4.50 – 4.59 FOR RETAINING WALL LAYOUTS.
6. SEE DWG. NO. 4.60 – 4.61 FOR RETAINING WALL DETAILS.

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ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
STRUCTURES KEY MAP

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.01
DRAWING NO.

SHEET 34 OF 74

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XREF LIST
_OTAK22X34_ENGR

BRIDGE AND RETAINING WALL GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2023 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

2. BRIDGE FOUNDATIONS ARE, AND PREFABRICATED STEEL BRIDGES SHALL BE, DESIGNED ACCORDING TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (9TH EDITION) AND AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (2ND EDITION WITH 2015 INTERIM REVISIONS).

3. THE BRIDGE IS DESIGNED WITH THE FOLLOWING:
   - 3.1. ALLOWANCE OF 35 PSF FOR FUTURE WEARING SURFACE
   - 3.2. MATERIAL UNIT WEIGHTS
     - 3.2.1. CAST-IN-PLACE CONCRETE: 155 PCF
     - 3.2.2. PRECAST CONCRETE: 165 PCF
     - 3.2.3. STEEL: 490 PCF
     - 3.2.4. ASPHALT: 140 PCF
     - 3.2.5. UTILITIES: 120 PLF
     - 3.2.6. SOIL: 135 PCF
   - 3.3. SOIL PROPERTIES
     - 3.3.1. BACKFILL SOIL INTERNAL FRICTION ANGLE, ø = 34 DEG.
     - 3.3.2. COHESION, C = 0 PSF
     - 3.3.3. AT-REST EQUIVALENT FLUID PRESSURE = 55 PCF
   - 3.4. SEISMIC PARAMETERS
     - 3.4.1. SITE CLASS: D
     - 3.4.2. DESIGN ACCELERATIONS: PGA = 0.402 (0.0 SEC.); SS = 0.909 (0.2 SEC.); S1 = 0.271 (1 SEC.)

4. PREFABRICATED STEEL BRIDGE SHALL BE WEATHERING STEEL TRUSS.

5. PROVIDE CONCRETE
   - 5.1. CLASS 4000 IN ABUTMENTS.
   - 5.2. CLASS 4000D IN DECK.
   - 5.3. CLASS 4000P IN STEEL PILES

6. PROVIDE ALL REINFORCING STEEL ACCORDING TO ASTM SPECIFICATION A706, OR AASHTO M31 (ASTM A615) GRADE 60. PROVIDE FIELD BENT STIRRUPS ACCORDING TO ASTM SPECIFICATION A706.

7. ALL REINFORCING STEEL IN CONCRETE BRIDGE DECK SHALL BE HOT-DIP GALVANIZED STEEL. GALVANIZED STEEL REINFORCING SHALL CONFORM TO EITHER ASTM A767 CLASS 1 OR ASTM A1094.

8. SPACE REINFORCING STEEL EVENLY UNLESS NOTED OTHERWISE.

9. USE THE FOLLOWING SPLICE LENGTHS (UNLESS SHOWN OTHERWISE):

REINFORCING SPLICE LENGTHS (CLASS B) GRADE 60										
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14 & #18
UNCOATED	1'-0"	1'-4"	1'-8"	2'-0"	2'-8"	3'-6"	4'-4"	5'-7"	6'-9"	NOT PERMITTED
COATED	1'-5"	1'-10"	2'-4"	2'-10"	3'-9"	4'-11"	6'-1"	7'-10"	9'-6"	NOT PERMITTED

10. SPLICE REINFORCING STEEL AT ALTERNATE BARS, STAGGERED AT LEAST ONE SPLICE LENGTH OR AS FAR AS POSSIBLE, UNLESS SHOWN OTHERWISE.

11. PLACE BARS 3" CLEAR FOR CONCRETE CAST AGAINST EARTH, 1½" CLEAR AT TIES, AND 2" OTHERWISE, OR AS SHOWN ON THE DETAILS.

12. PROVIDE ¾" CHAMFER AT ALL EXPOSED CONCRETE EDGES.

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
STRUCTURES GENERAL NOTES

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.02
DRAWING NO.

SHEET 35 OF 74

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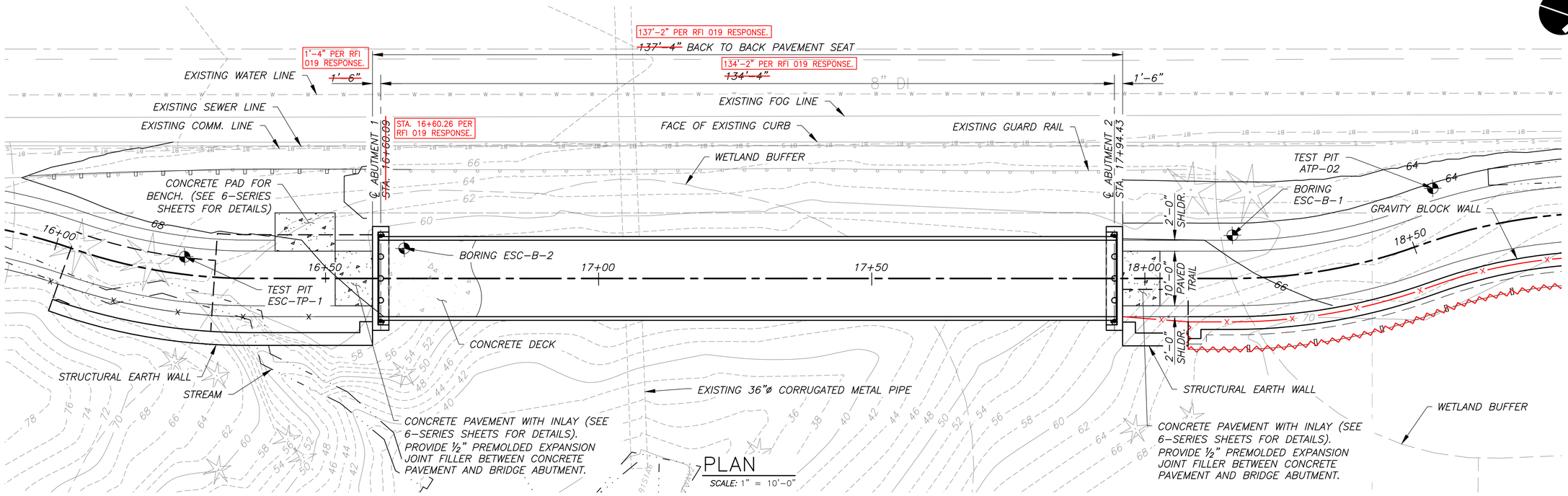
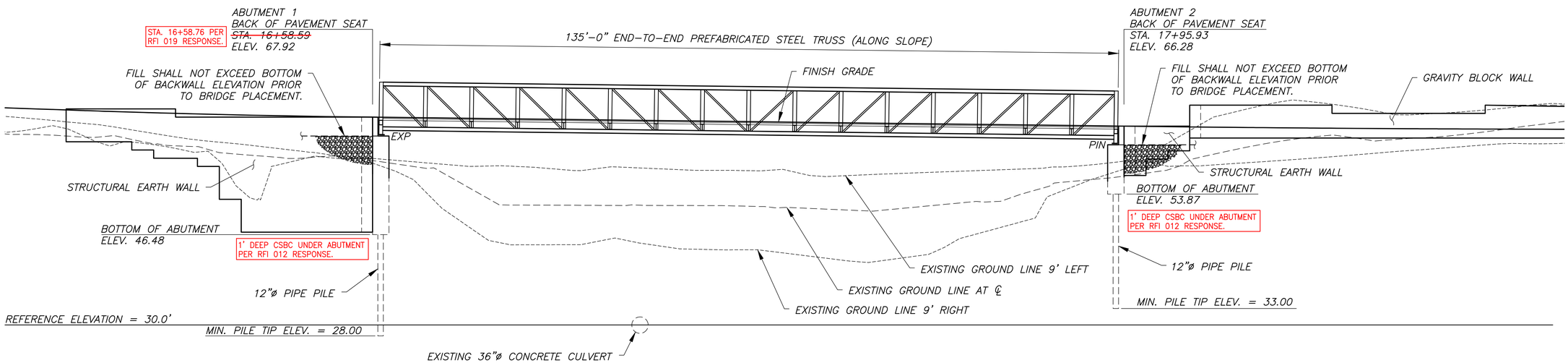
XREF LIST
_OTAK22X34_ENGR
33386R270
33386R500
SHEET-LAYOUT
BASEMAP
33386X800
33386C450



PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

STEEL PEDESTRIAN TRUSS
LOADING: 90 PSF AND H-10

NO.	REVISION COMMENTS	BY	REVIEW	DATE

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ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 1 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.10
DRAWING NO.

SHEET 36 OF 74

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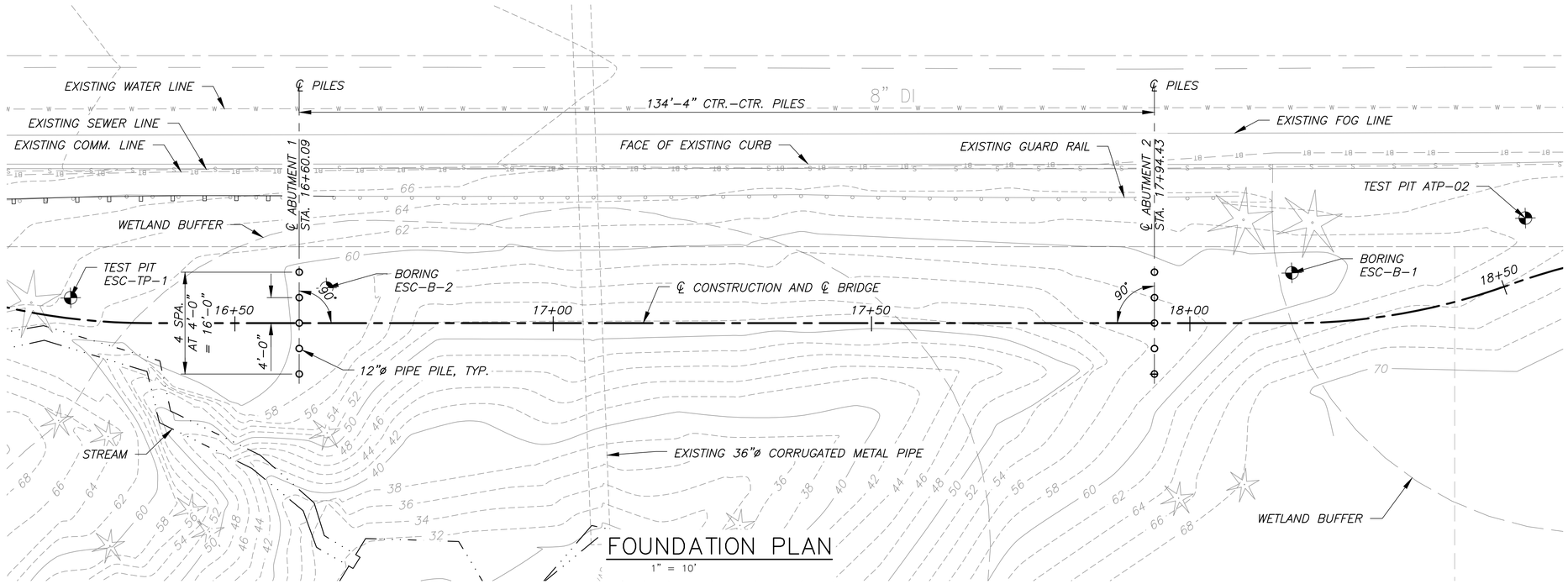
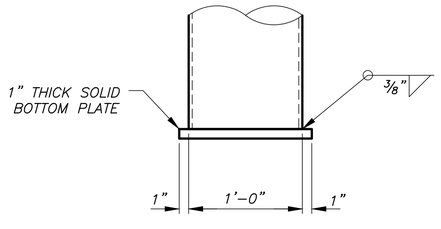


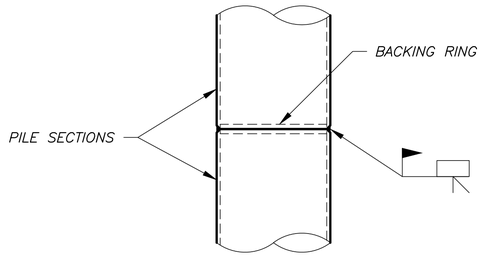
FOUNDATION PLAN

1" = 10'



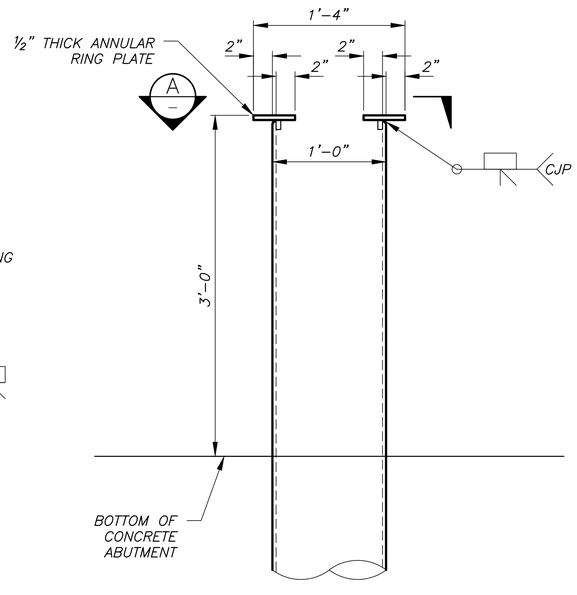
PIPE PILE BOTTOM

SCALE: N.T.S.



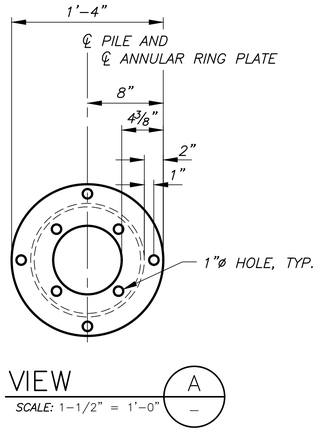
PIPE PILE SPLICE

SCALE: N.T.S.



PIPE PILE TOP

SCALE: N.T.S.



VIEW A

SCALE: 1-1/2" = 1'-0"

FOUNDATION NOTES

1. PILES SHALL BE 12"ø STEEL PIPE DRIVEN CLOSED ENDED WITH CONCRETE FILL.
2. PROVIDE PILE ACCORDING TO API 5L GRADE X42, ASTM A252 GRADE 2 OR 3, ASTM A 572, OR ASTM A 588 WITH 3/8" MINIMUM WALL THICKNESS.
3. PROVIDE BOTTOM PLATE ACCORDING TO ASTM A 709 GRADE 50.
4. DRIVE PILES TO AN ULTIMATE BEARING CAPACITY OF 65 TONS.
5. PROVIDE CONCRETE CLASS 5000P INSIDE STEEL PILE.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 1 FOUNDATION LAYOUT

TITLE

Otak
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425.822.4446
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33386
PROJECT NUMBER

4.11
DRAWING NO.

SHEET 37 OF 74

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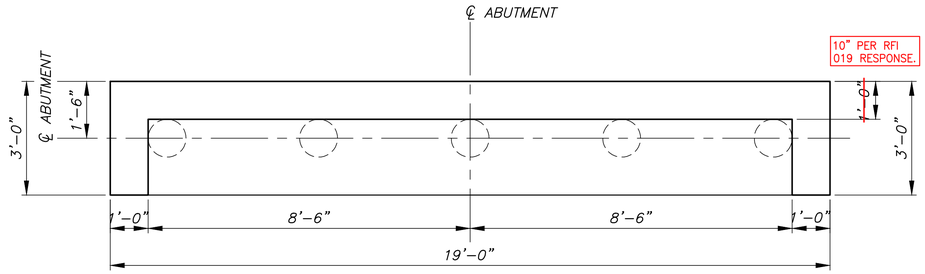
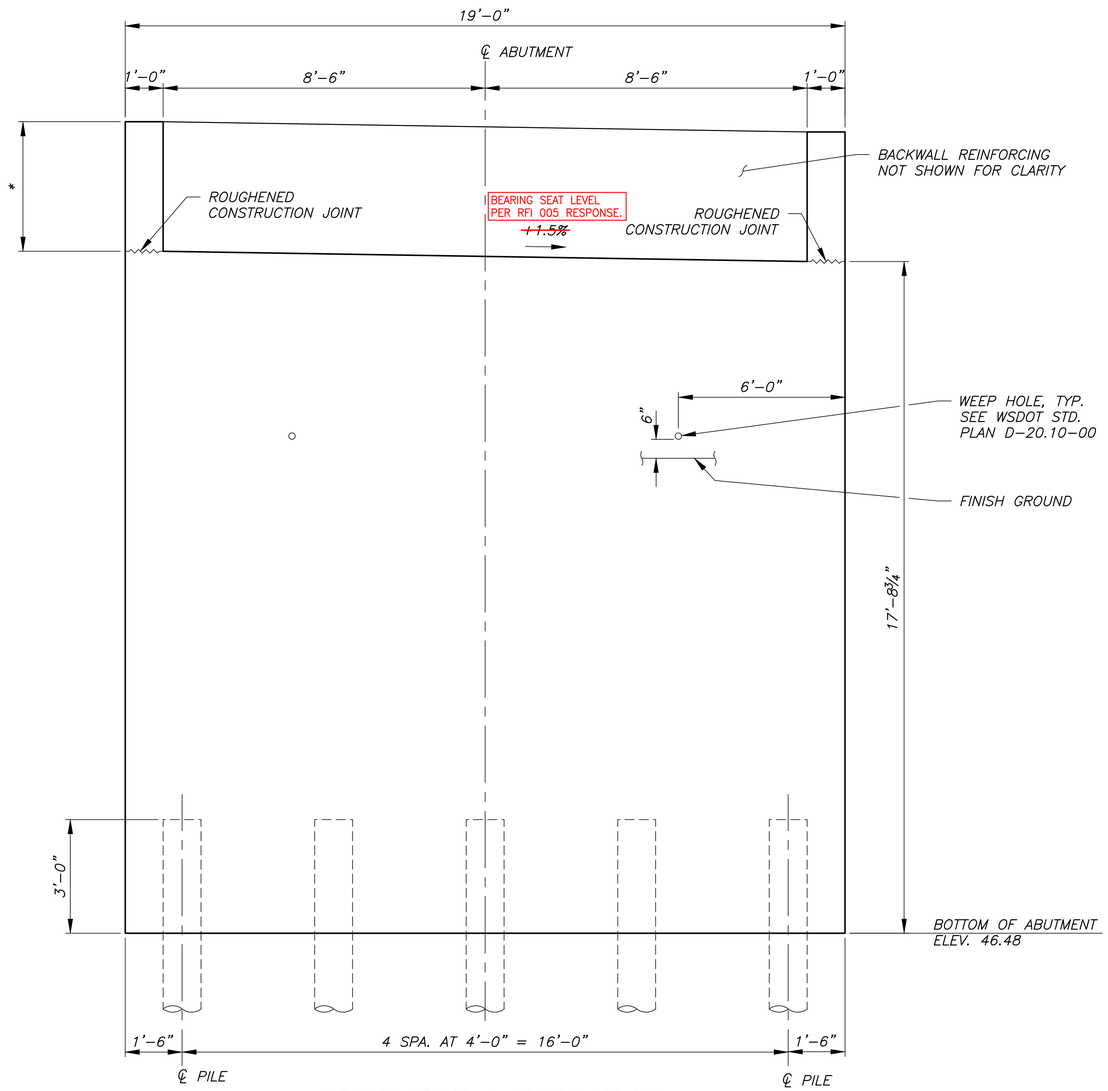


ABUTMENT 1 PLAN

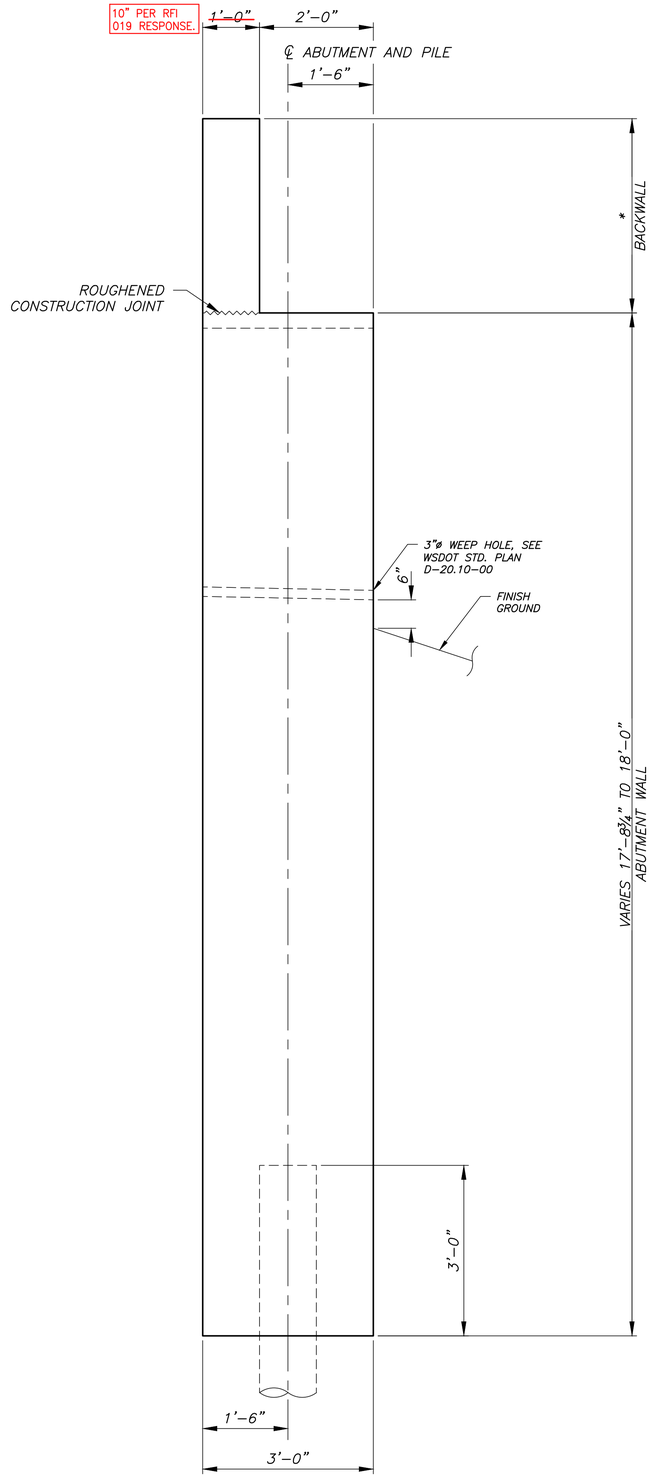
SCALE: 1/2" = 1'–0"



ABUTMENT 1 ELEVATION

SCALE: 1" = 1'
FACING BACK ON STATION

* MATCH BRIDGE DIMENSION PER CONTRACTOR DESIGN



ABUTMENT 1 TYPICAL SECTION

SCALE: 3/4" = 1'–0"

* MATCH BRIDGE DIMENSION PER CONTRACTOR DESIGN

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY — STATE OF WASHINGTON — 43425 — REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE

LITTLE BOSTON ROAD PEDESTRIAN TRAIL

BRIDGE 1 ABUTMENT 1 DETAILS 1

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.12
DRAWING NO.

SHEET 38 OF 74

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Plotted: Sep 26, 2025 – 4:59pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\ABUTMENT DETAILS.dwg Layout Name: 4.12

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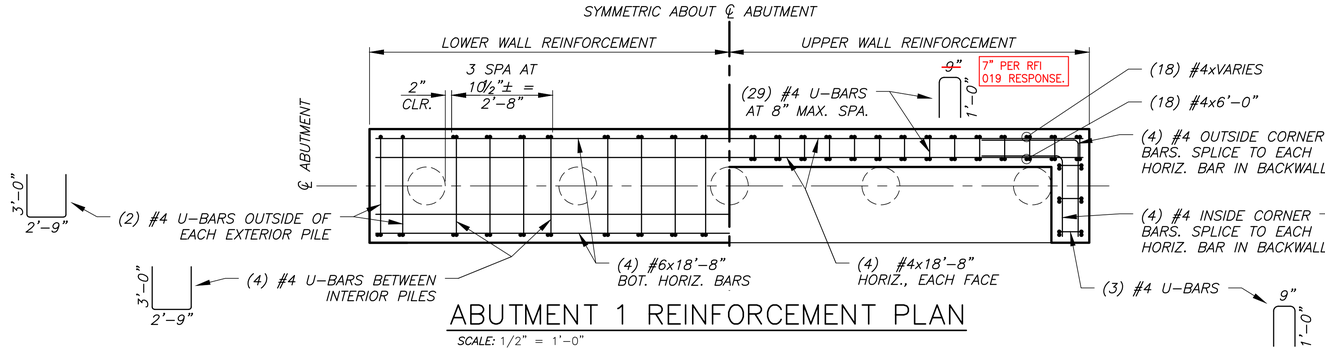
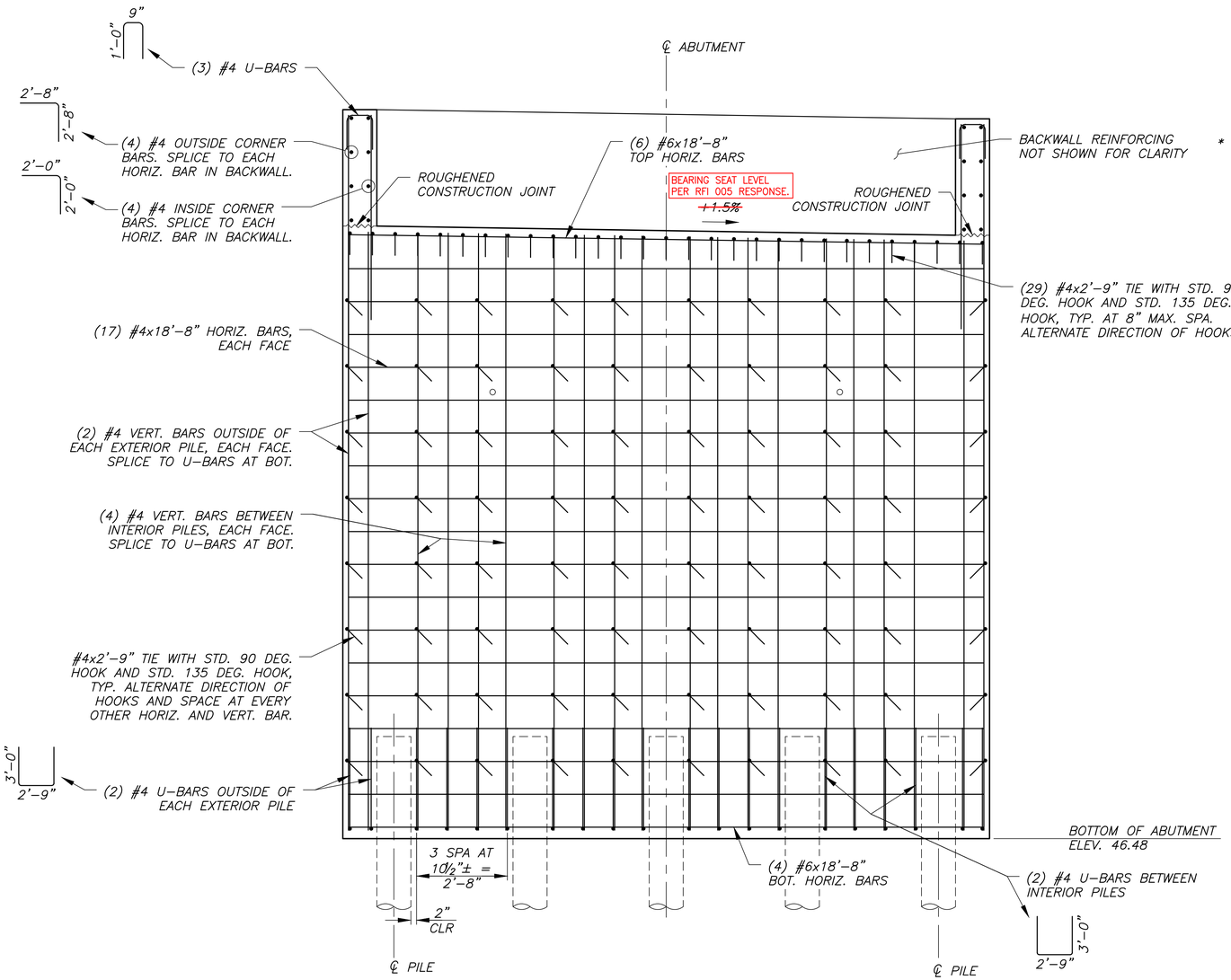


ABUTMENT 1 REINFORCEMENT PLAN

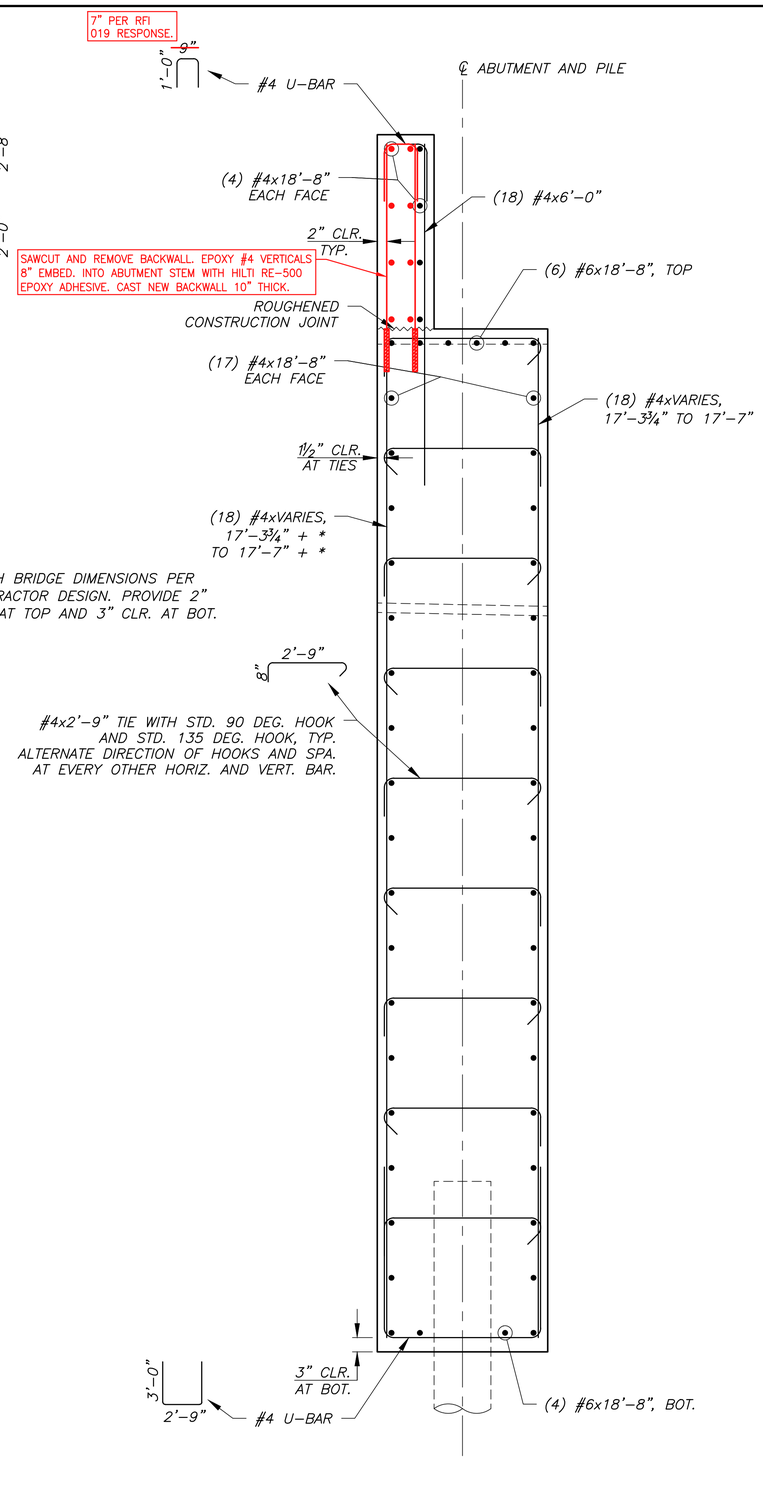
SCALE: 1/2" = 1'-0"



ABUTMENT 1 REINFORCEMENT ELEVATION

SCALE: 1" = 1'

FACING BACK ON STATION



ABUTMENT 1 TYPICAL SECTION

SCALE: 3/4" = 1'-0"

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER

DRAWN BY

CHECKED BY

ROBERT P. DOHERTY — STATE OF WASHINGTON — 43425 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE

LITTLE BOSTON ROAD PEDESTRIAN TRAIL

BRIDGE 1 ABUTMENT 1 DETAILS 2

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386

PROJECT NUMBER

4.13

DRAWING NO.

SHEET 39 OF 74

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Plotted: Sep 26, 2025 – 4:59pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\ABUTMENT DETAILS.dwg Layout Name: 4.13

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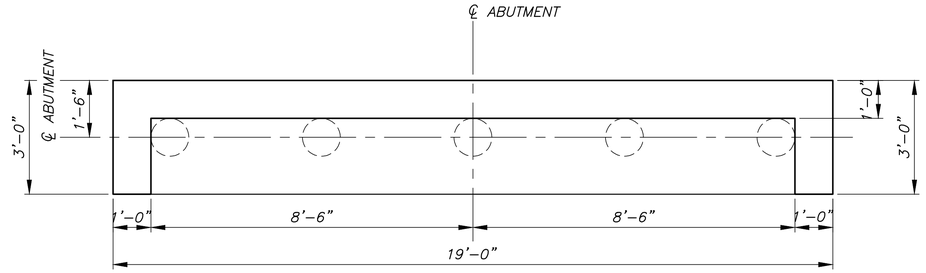
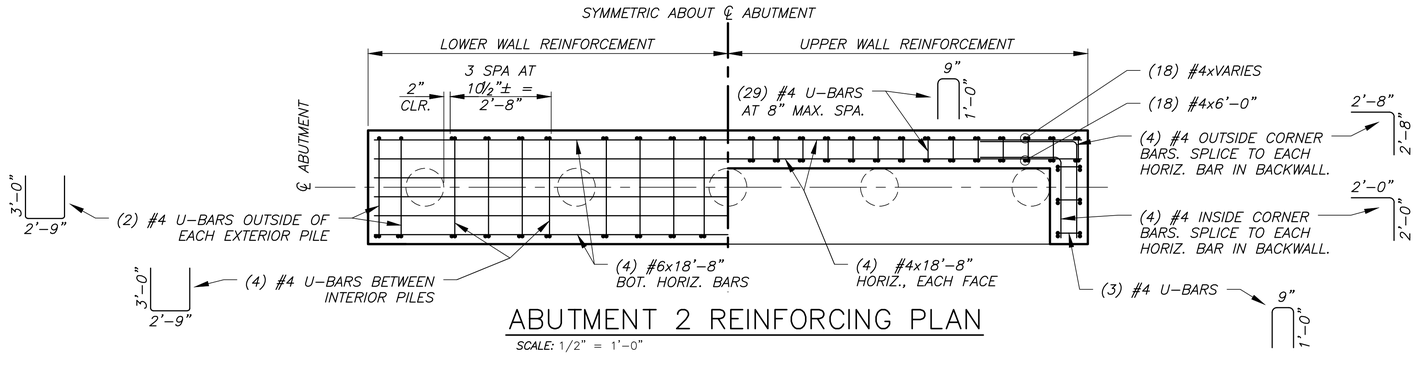


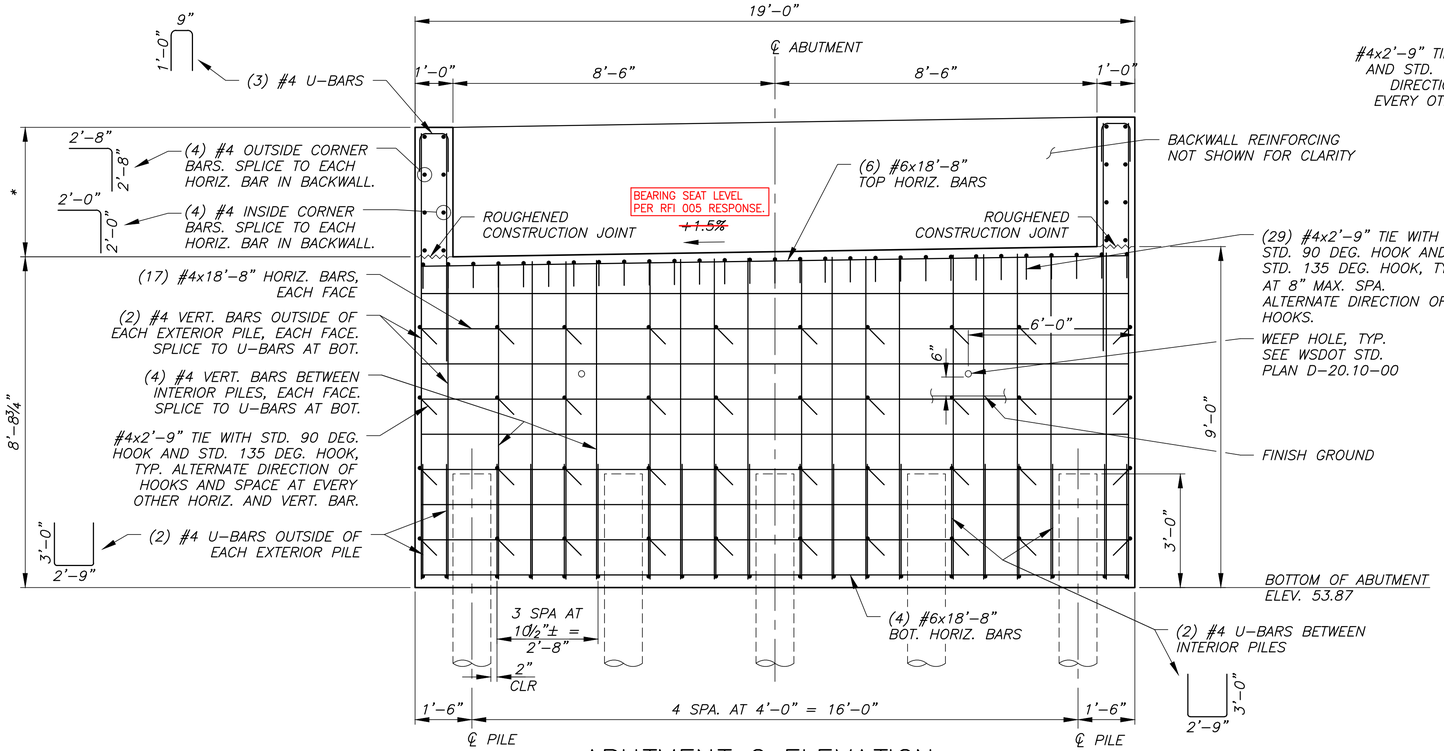
ABUTMENT 2 PLAN

SCALE: 1/2" = 1'–0"



ABUTMENT 2 REINFORCING PLAN

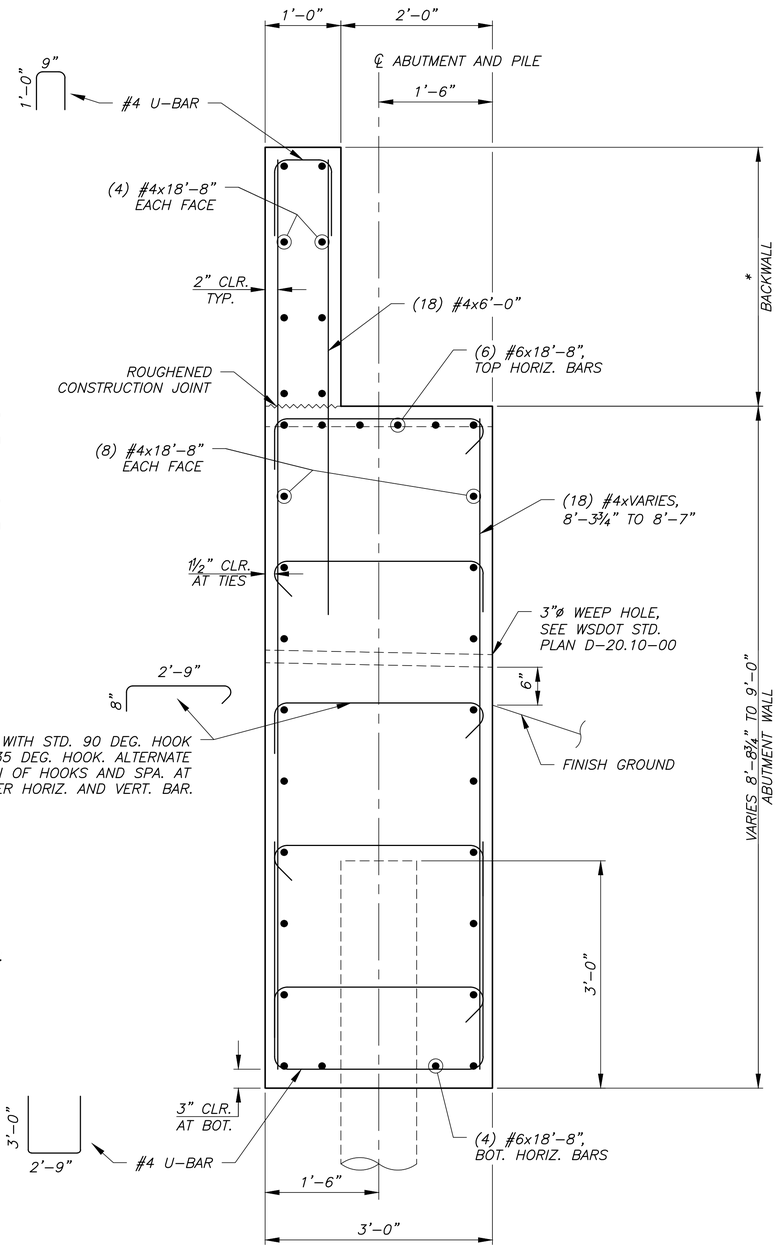
SCALE: 1/2" = 1'–0"



ABUTMENT 2 ELEVATION

SCALE: 1/2" = 1'–0"

* MATCH BRIDGE DIMENSION PER CONTRACTOR DESIGN



ABUTMENT 2 TYPICAL SECTION

SCALE: 1" = 1'–0"

* MATCH BRIDGE DIMENSION PER CONTRACTOR DESIGN

NO.	REVISION COMMENTS	BY	REVIEW	DATE

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ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 1 ABUTMENT 2 DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.14
DRAWING NO.

SHEET 40 OF 74

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Plotted: Sep. 26, 2025 – 4:59pm O:\PROJECT\33300\33386\CADD\Dwg\Asbuilts\33386\ABUTMENT DETAILS.dwg Layout Name: 4.14

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SHEET-LAYOUT
BASEMAP
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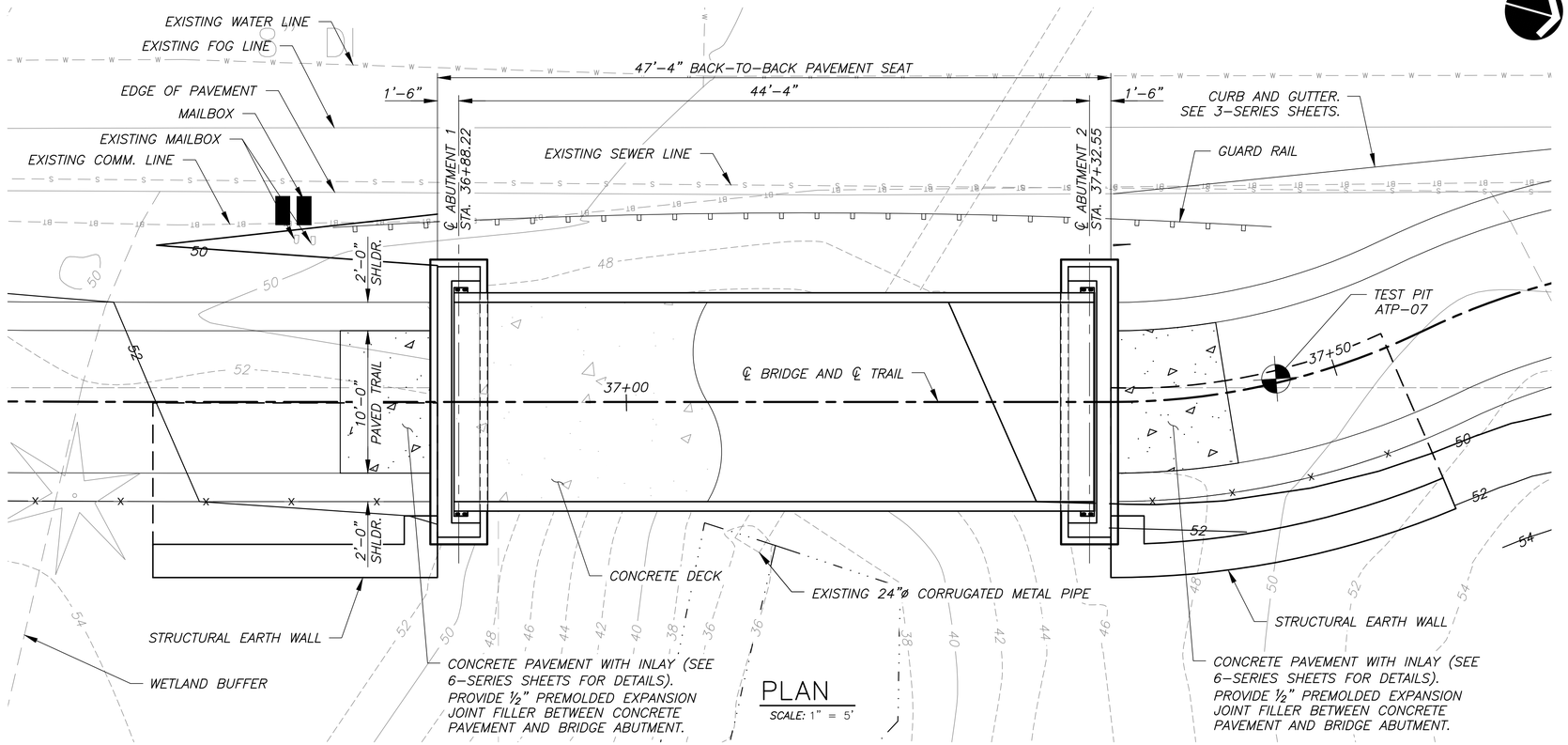
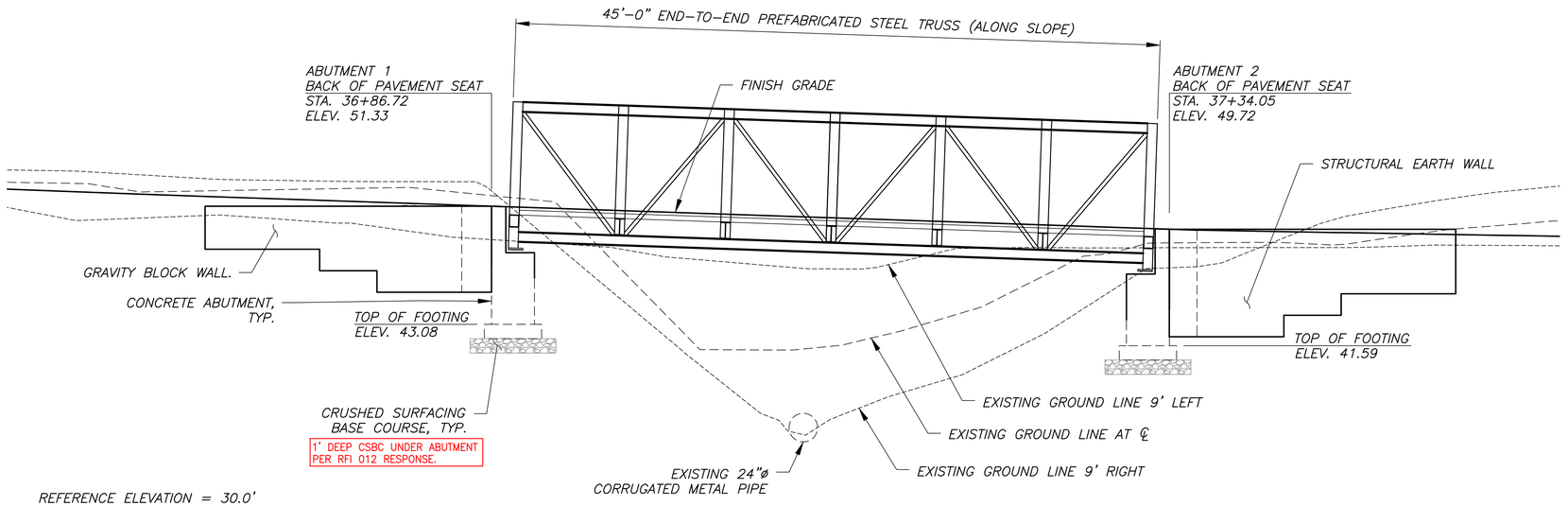


PLAN
SCALE: 1" = 5'



ELEVATION
SCALE: 1" = 5'

STEEL PEDESTRIAN TRUSS
LOADING: 90 PSF AND H-10

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 2 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.20
DRAWING NO.

SHEET 41 OF 74

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Plotted: Sep 26, 2025 - 5:00pm 0:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\BRIDGE LAYOUT.dwg Layout Name: 4.20

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SHEET-LAYOUT
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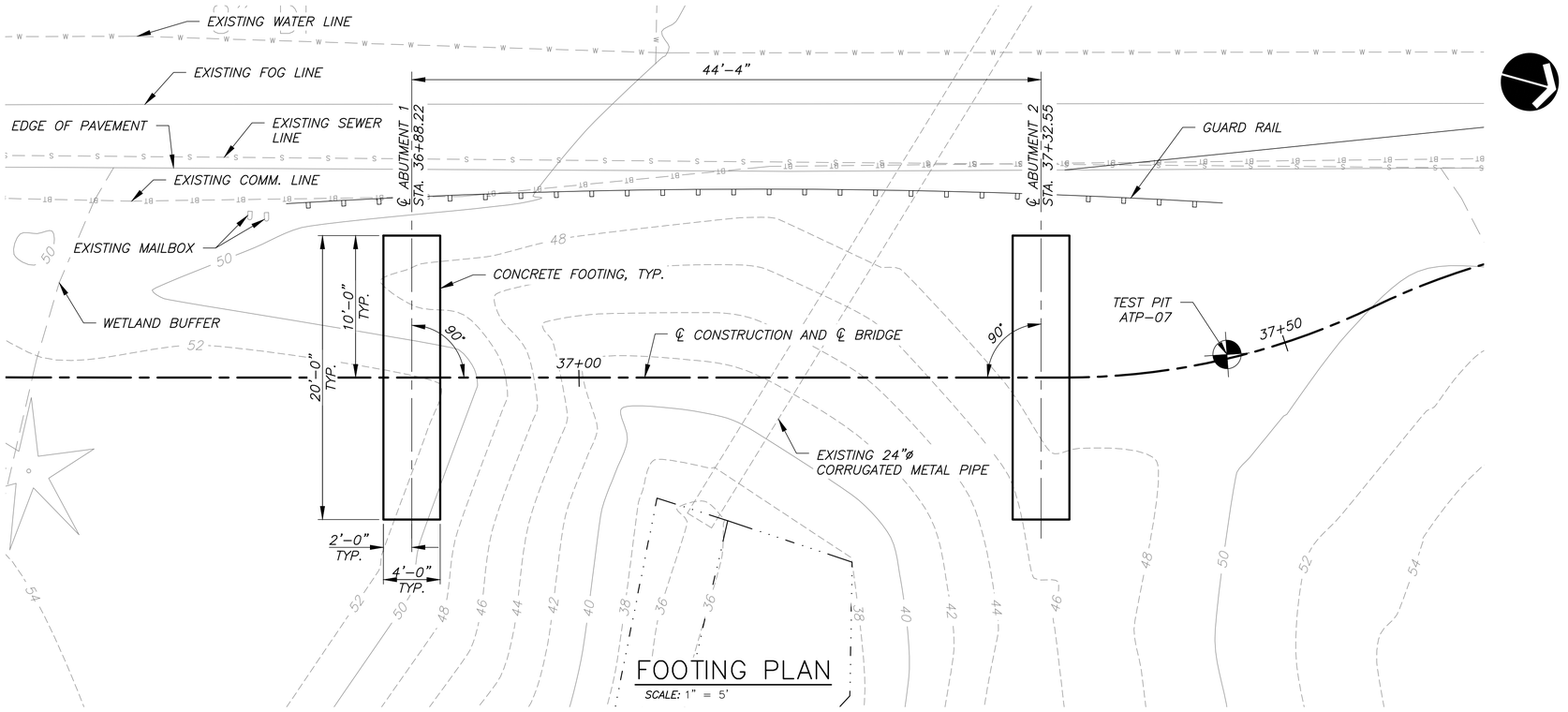
33386C450



FOOTING PLAN

SCALE: 1" = 5'

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 2 FOOTING LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.21
DRAWING NO.

SHEET 42 OF 74

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Plotted: Sep 26, 2025 - 5:00pm 0:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\BRIDGE_LAYOUT.dwg Layout Name: 4.21

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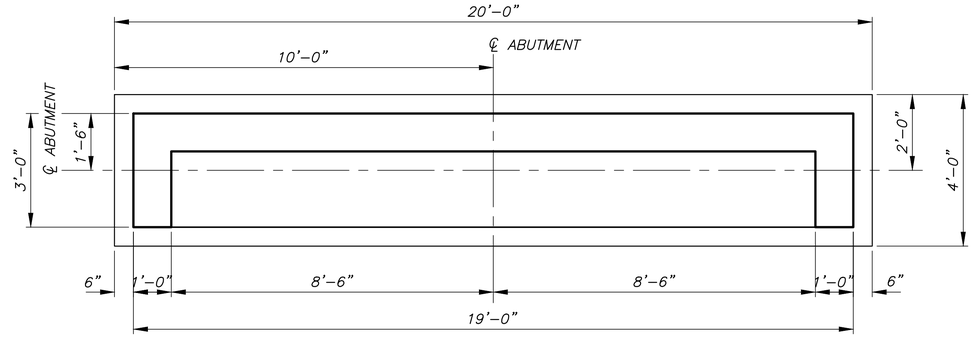
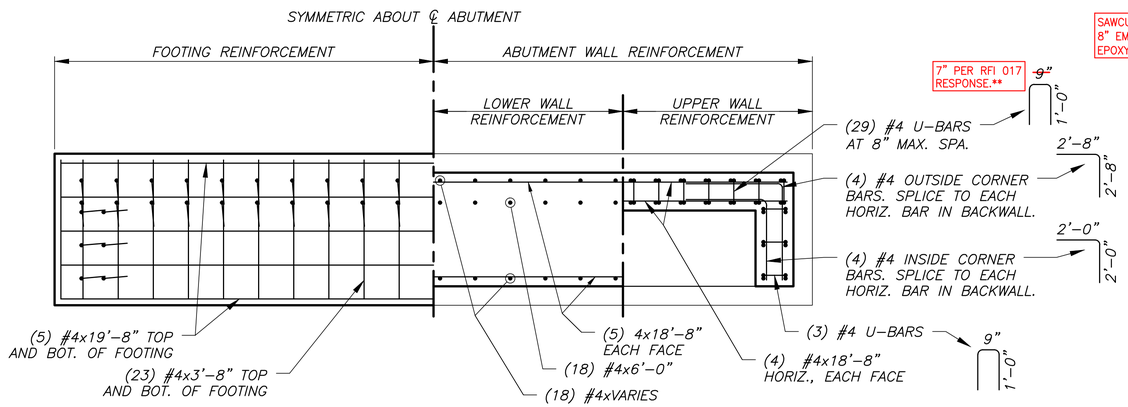


ABUTMENT PLAN

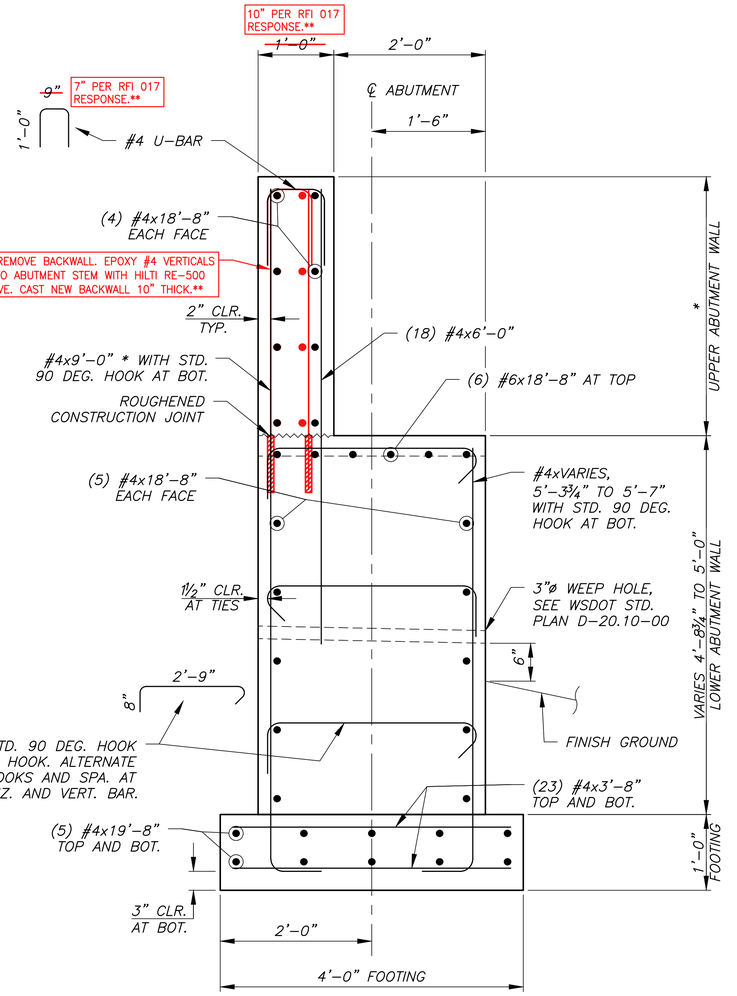
SCALE: 1/2" = 1'–0"



ABUTMENT REINFORCING PLAN

SCALE: 1/2" = 1'–0"

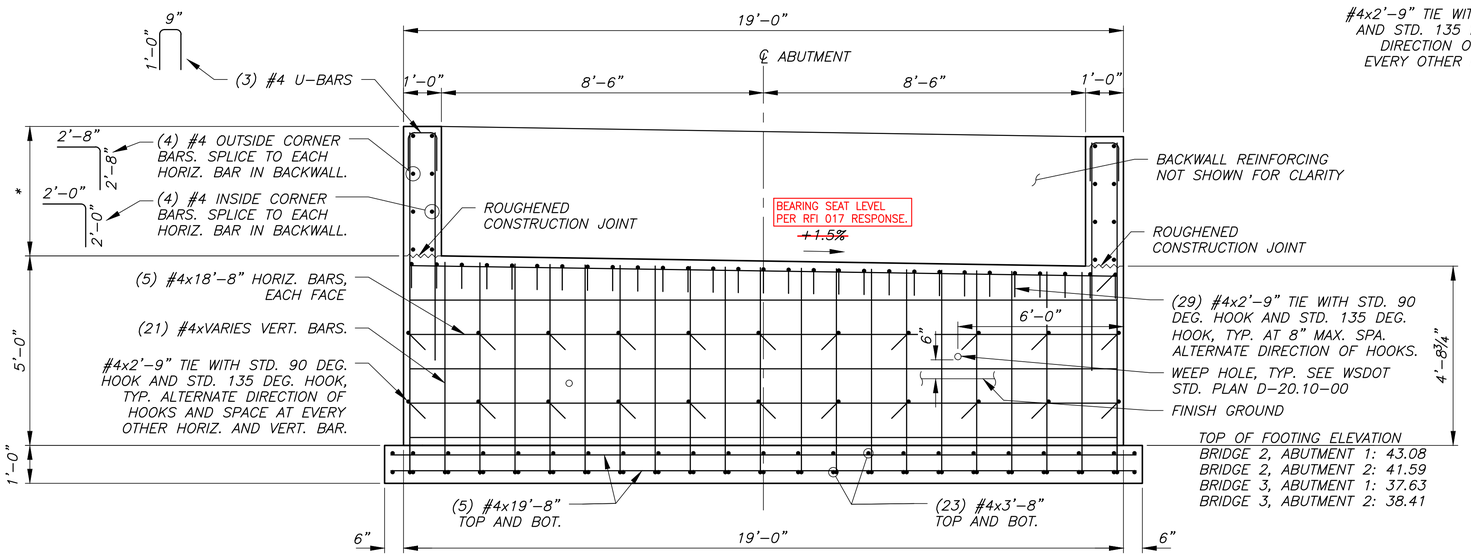
NOTE:
ALL AS–BUILT NOTES DESIGNATED WITH ** APPLY ONLY AT BRIDGE 3 ABUTMENT 2 PER RFI 017.



ABUTMENT TYPICAL SECTION

SCALE: 1" = 1'–0"

* MATCH BRIDGE DIMENSION PER CONTRACTOR DESIGN



ABUTMENT ELEVATION

SCALE: 1/2" = 1'–0"

* MATCH BRIDGE DIMENSION PER CONTRACTOR DESIGN

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 2 AND BRIDGE 3 ABUTMENT DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.22
DRAWING NO.

SHEET 43 OF 74

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Plotted: Sep 29, 2025 – 11:26am O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\ABUTMENT DETAILS.dwg Layout Name: 4.22

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33386R270
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SHEET-LAYOUT
BASEMAP
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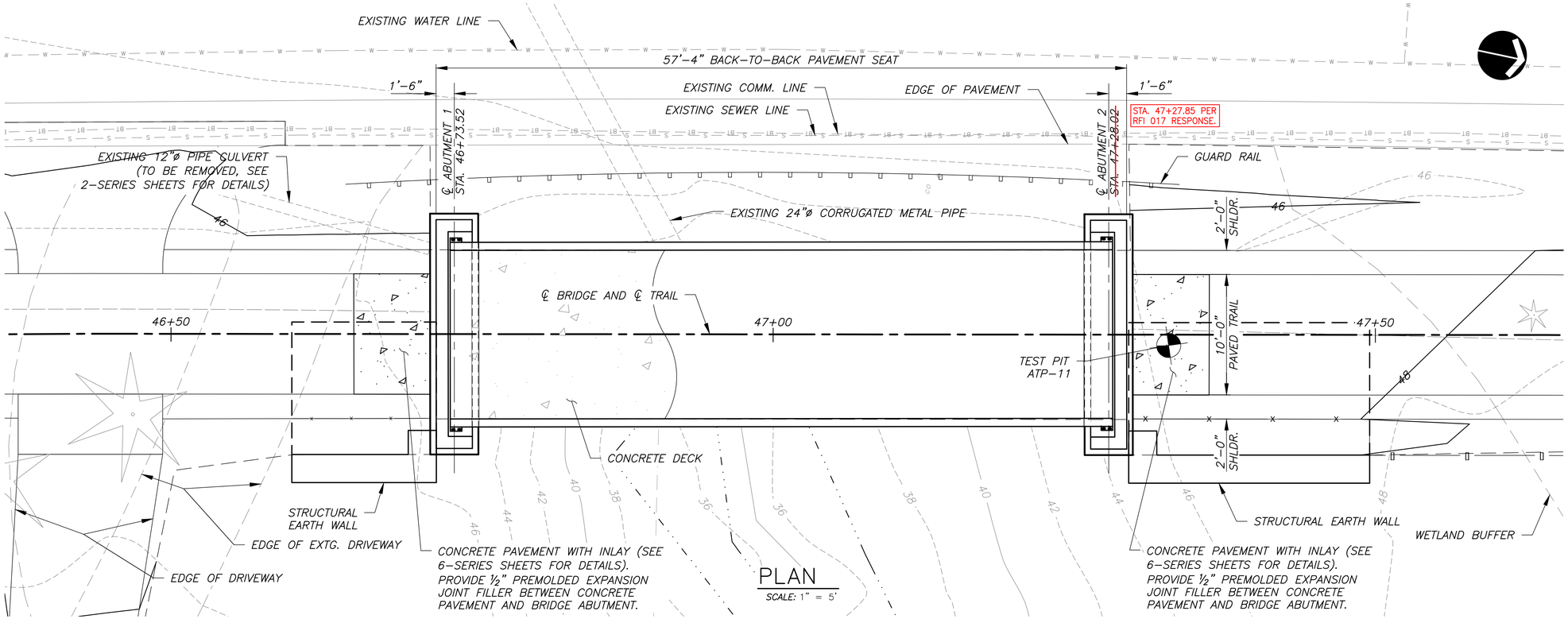
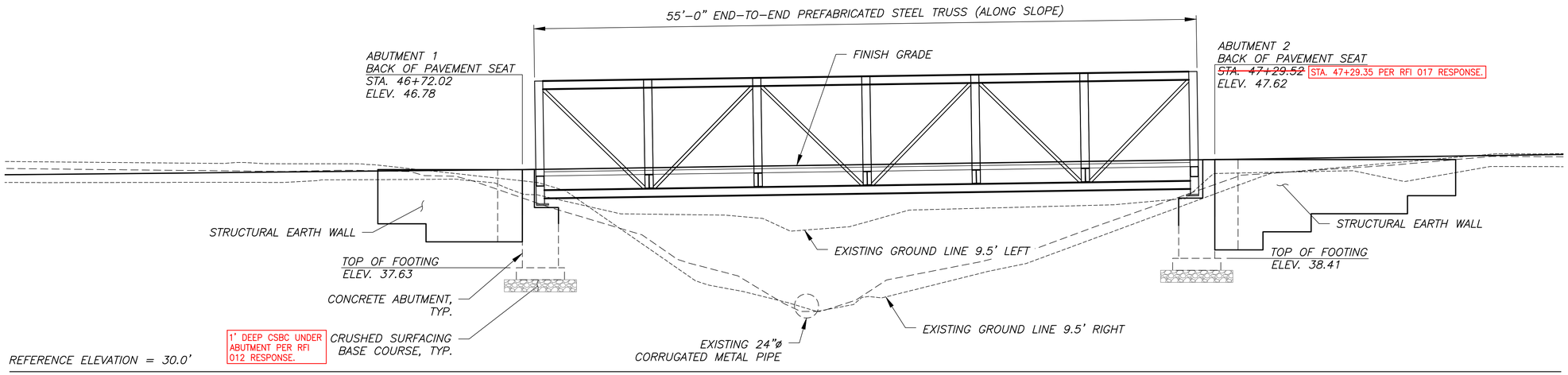


PLAN
SCALE: 1" = 5'



ELEVATION
SCALE: 1" = 5'

STEEL PEDESTRIAN TRUSS
LOADING: 90 PSF AND H-10

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 3 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.30
DRAWING NO.

SHEET 44 OF 74

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Plotted: Sep 26, 2025 - 5:02pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\BRIDGE LAYOUT.dwg Layout Name: 4.30

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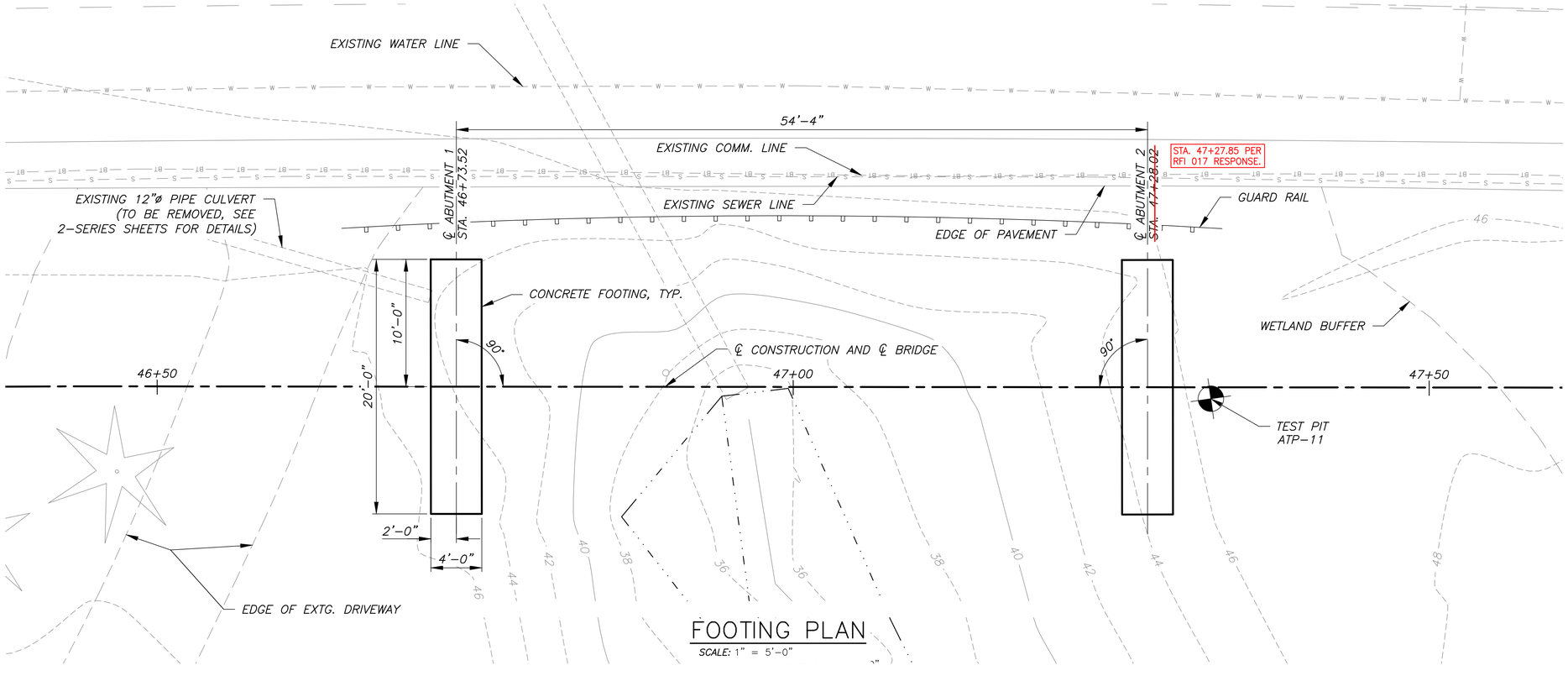

FOOTING PLAN

SCALE: 1" = 5'-0"

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE 3 FOOTING LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.31
DRAWING NO.

SHEET 45 OF 74

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Plotted: Sep 26, 2025 - 5:02pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\BRIDGE LAYOUT.dwg Layout Name: 4.31

XREF LIST
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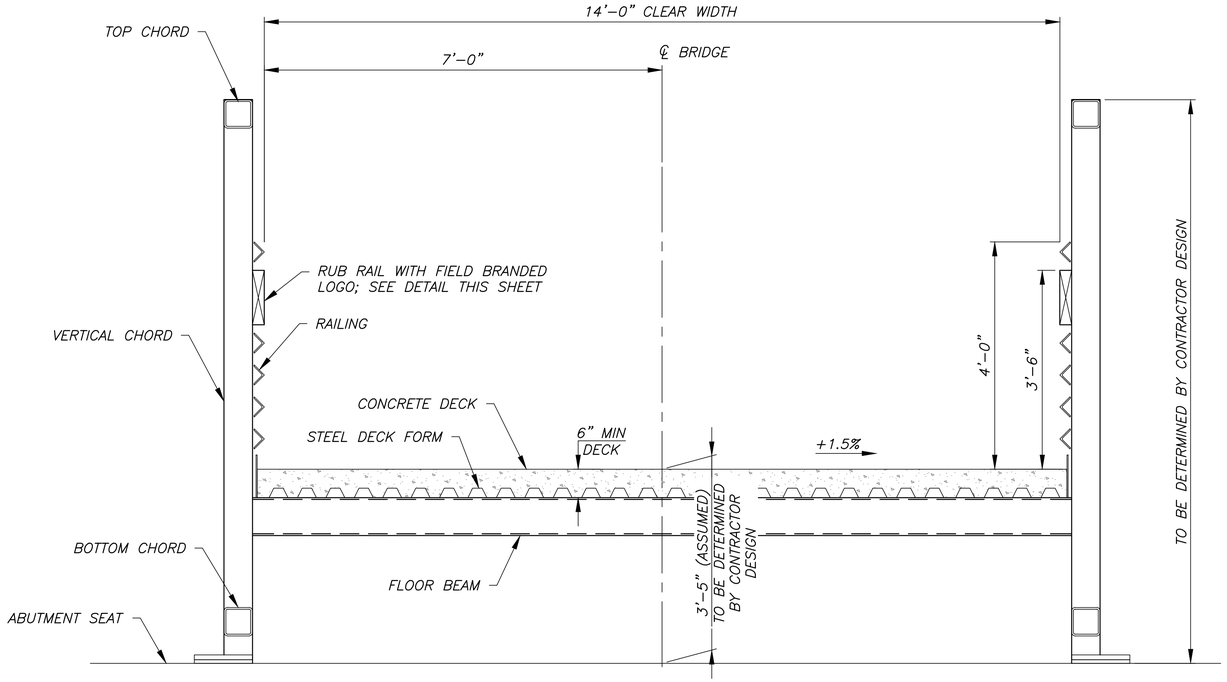
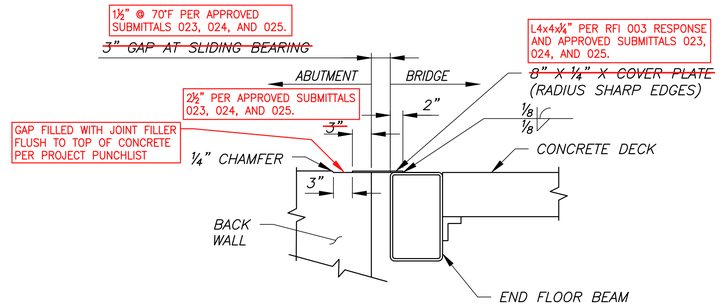


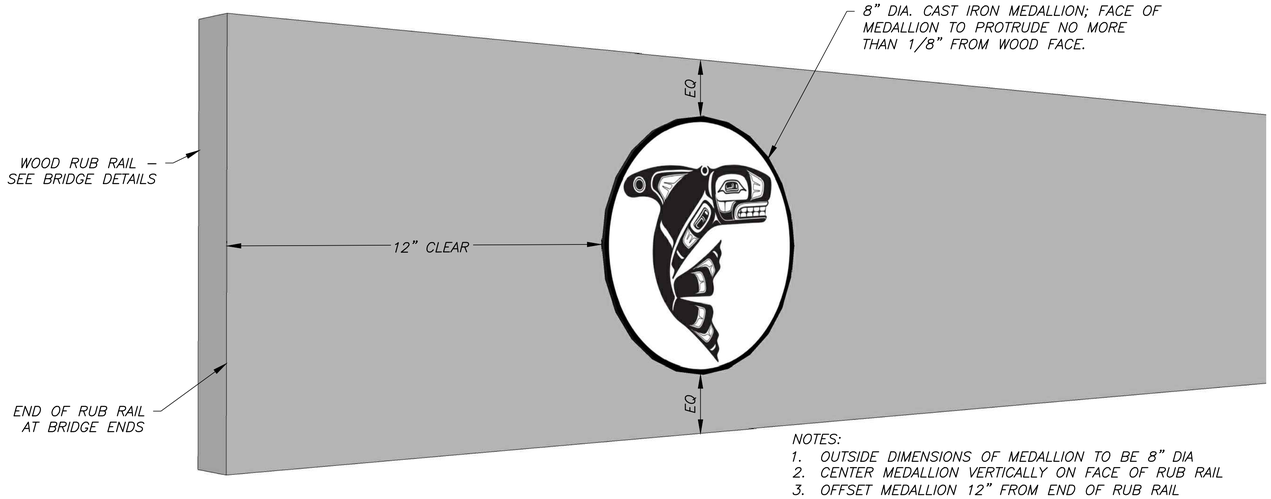
BRIDGE TYPICAL SECTION

SCALE: 3/4" = 1'–0"



COVER PLATE DETAIL

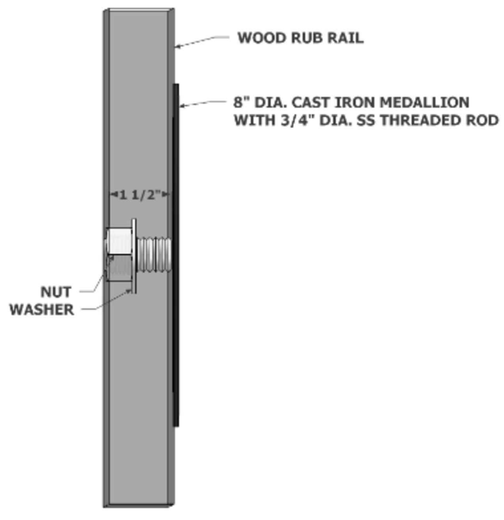
SCALE: N.T.S.



NOTES:
1. OUTSIDE DIMENSIONS OF MEDALLION TO BE 8" DIA
2. CENTER MEDALLION VERTICALLY ON FACE OF RUB RAIL
3. OFFSET MEDALLION 12" FROM END OF RUB RAIL
4. INSTALL MEDALLION TO INNER (TRAIL FACING) SIDE OF RUB RAIL AT EACH END OF BRIDGE ON BOTH SIDES FOR A TOTAL OF 4 MEDALLIONS PER BRIDGE

RUB RAIL MEDALLION DETAIL

SCALE: NTS



MEDALLION ATTACHMENT TO RAIL

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY — STATE OF WASHINGTON — 43425 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
BRIDGE TYPICAL SECTION

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.40
DRAWING NO.

SHEET 46 OF 74

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Plotted: Sep 26, 2025 – 5:03pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\BRIDGE TYPICAL SECTION.dwg Layout Name: 4.40

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33386R500
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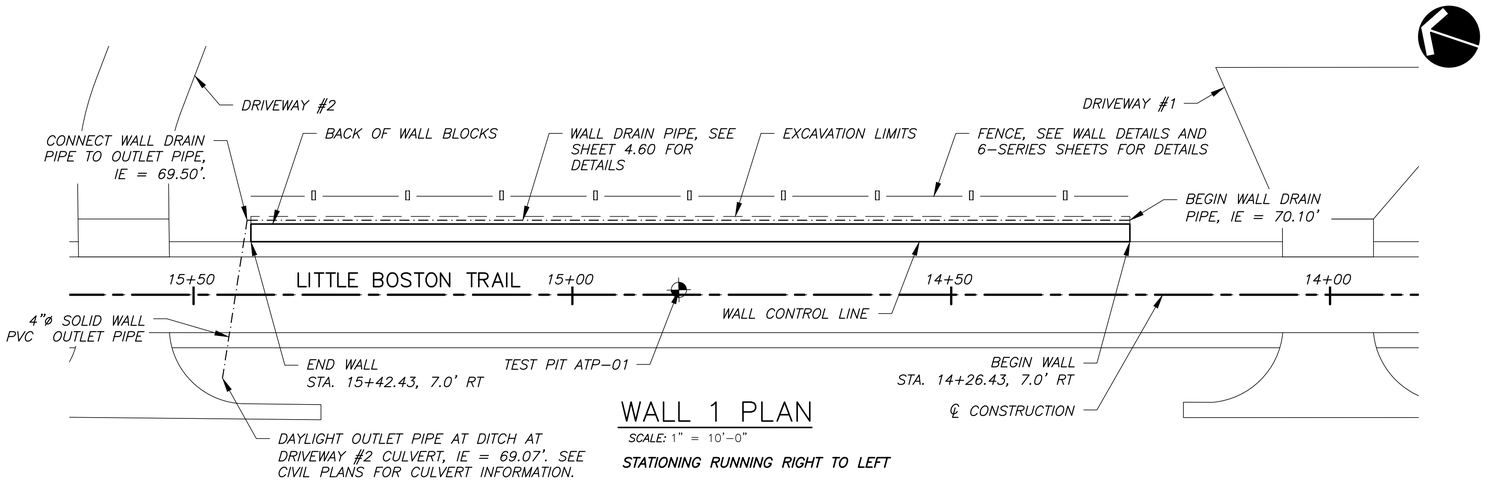
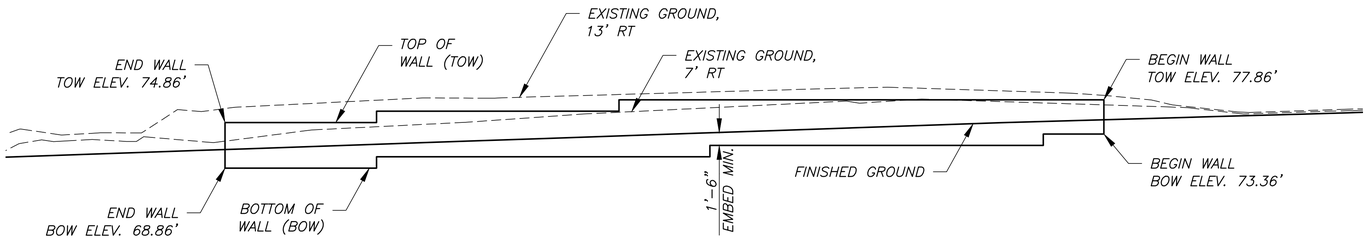
33386U630



WALL 1 PLAN

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT



WALL 1 ELEVATION

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT

NOTES:

1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.

WALL 1 TYPE: GRAVITY BLOCK WALL (GBW)

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 1 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.50
DRAWING NO.

SHEET 47 OF 74

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Plotted: Sep 26, 2025 - 5:03pm 0:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL LAYOUT.dwg Layout Name: 4.50

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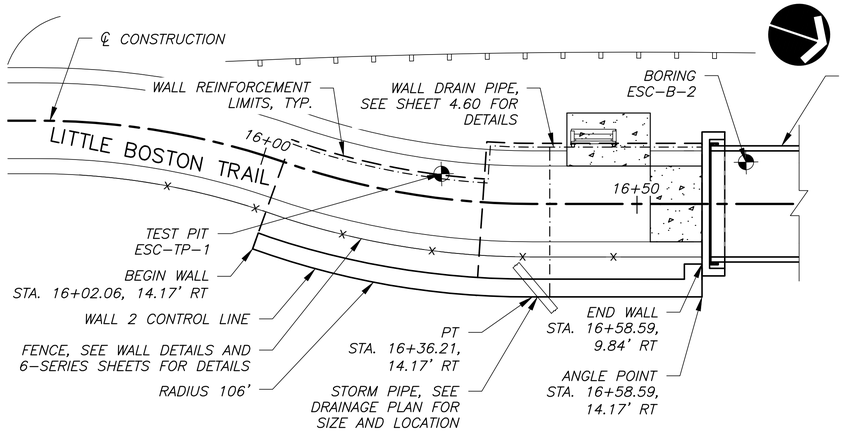
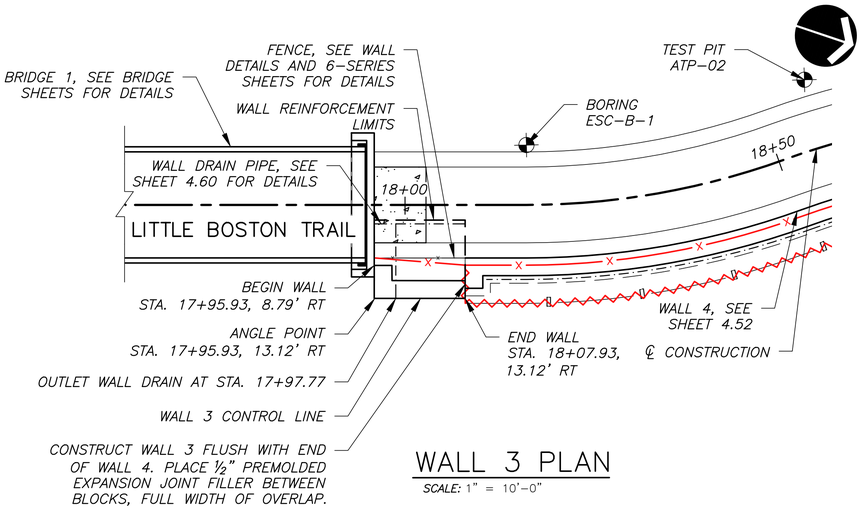
33386X800
33386U630



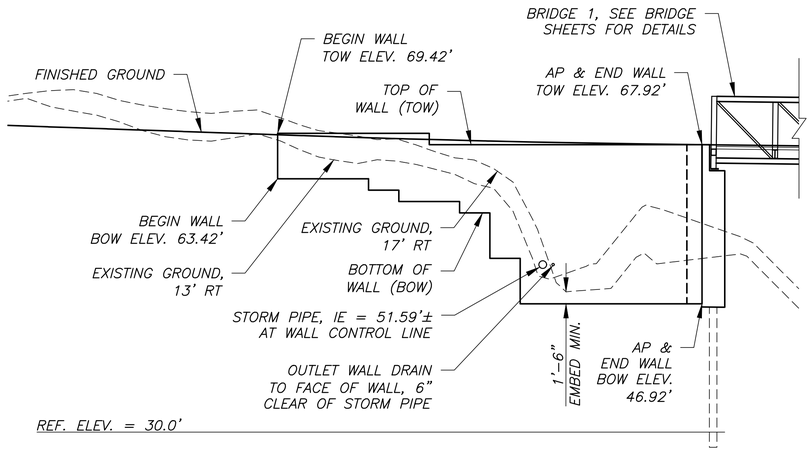
WALL 2 PLAN

SCALE: 1" = 10'–0"



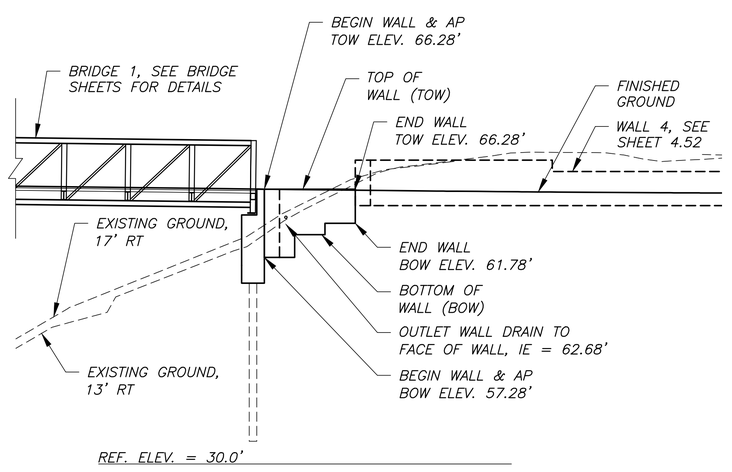
WALL 3 PLAN

SCALE: 1" = 10'–0"



WALL 2 ELEVATION

SCALE: 1" = 10'–0"



WALL 3 ELEVATION

SCALE: 1" = 10'–0"

NOTES:

1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.
2. VERIFY STORM DRAIN LAYOUT ON 3–SERIES SHEETS.

WALL 2 TYPE: STRUCTURAL EARTH WALL (SEW)
WALL 3 TYPE: STRUCTURAL EARTH WALL (SEW)

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 2 AND 3 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.51
DRAWING NO.

SHEET 48 OF 74

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Plotted: Sep 26, 2025 – 5:03pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL LAYOUT.dwg Layout Name: 4.51

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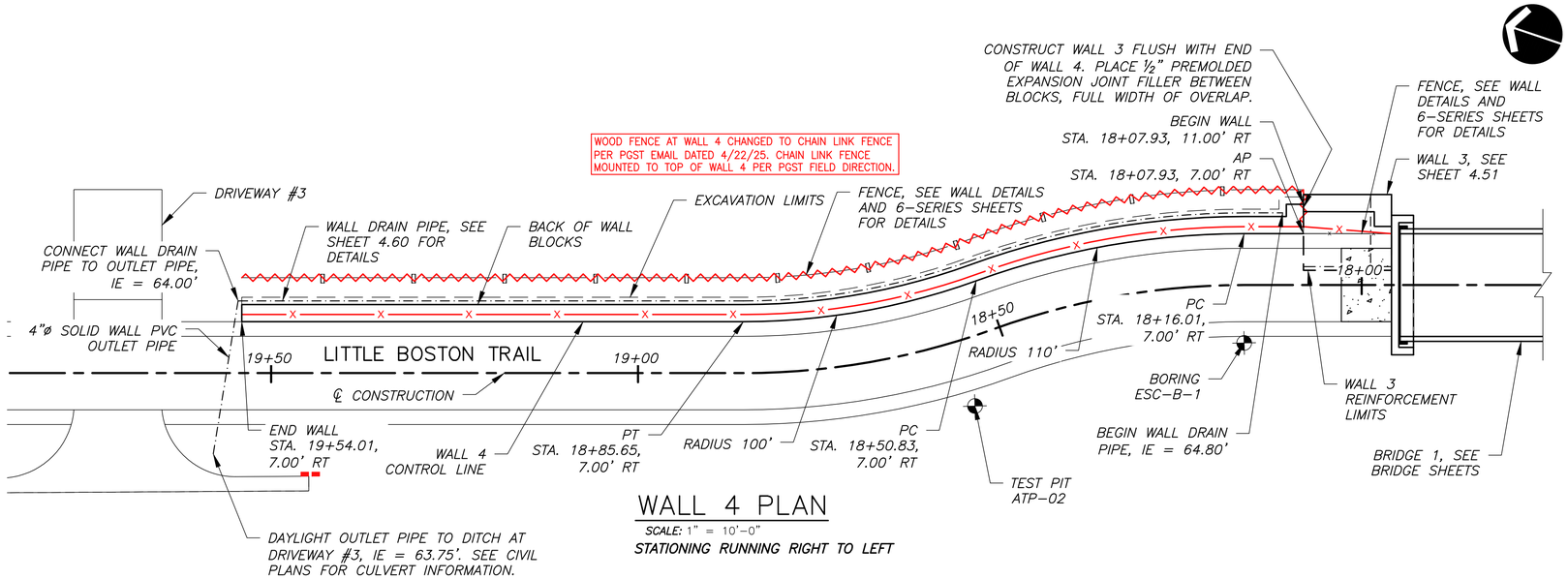
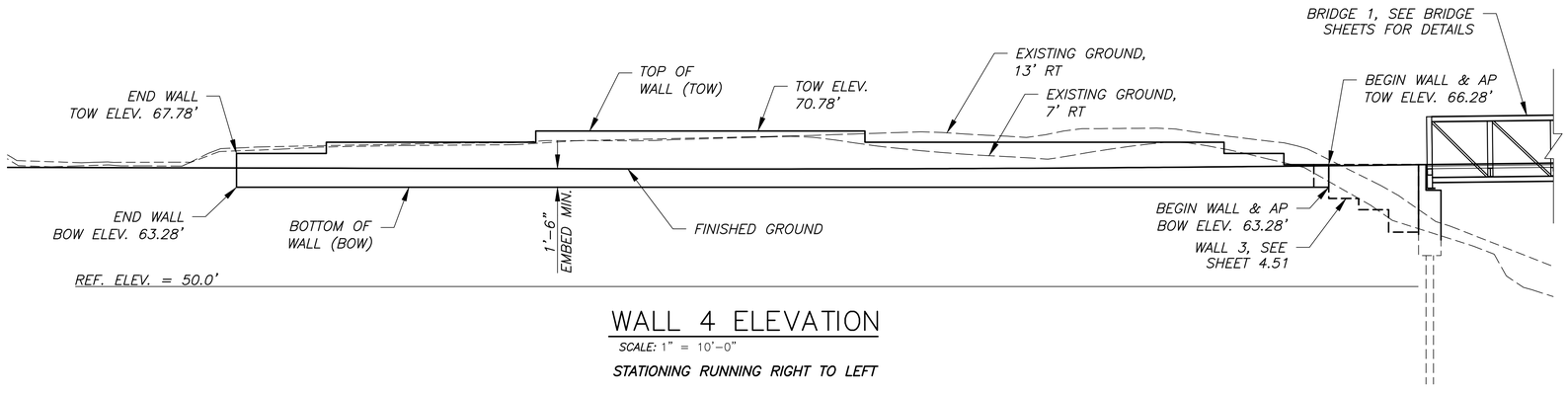
33386U630



WALL 4 PLAN

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT



WALL 4 ELEVATION

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT

NOTES:

1. *STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.*

WALL 4 TYPE: GRAVITY BLOCK WALL (GBW)

NO.	REVISION COMMENTS	BY	REVIEW	DATE

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ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE

LITTLE BOSTON ROAD PEDESTRIAN TRAIL

WALL 4 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.52
DRAWING NO.

SHEET 49 OF 74

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811 Know what's below. Call before you dig.

Plotted: Sep 26, 2025 – 5:03pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL LAYOUT.dwg Layout Name: 4.52

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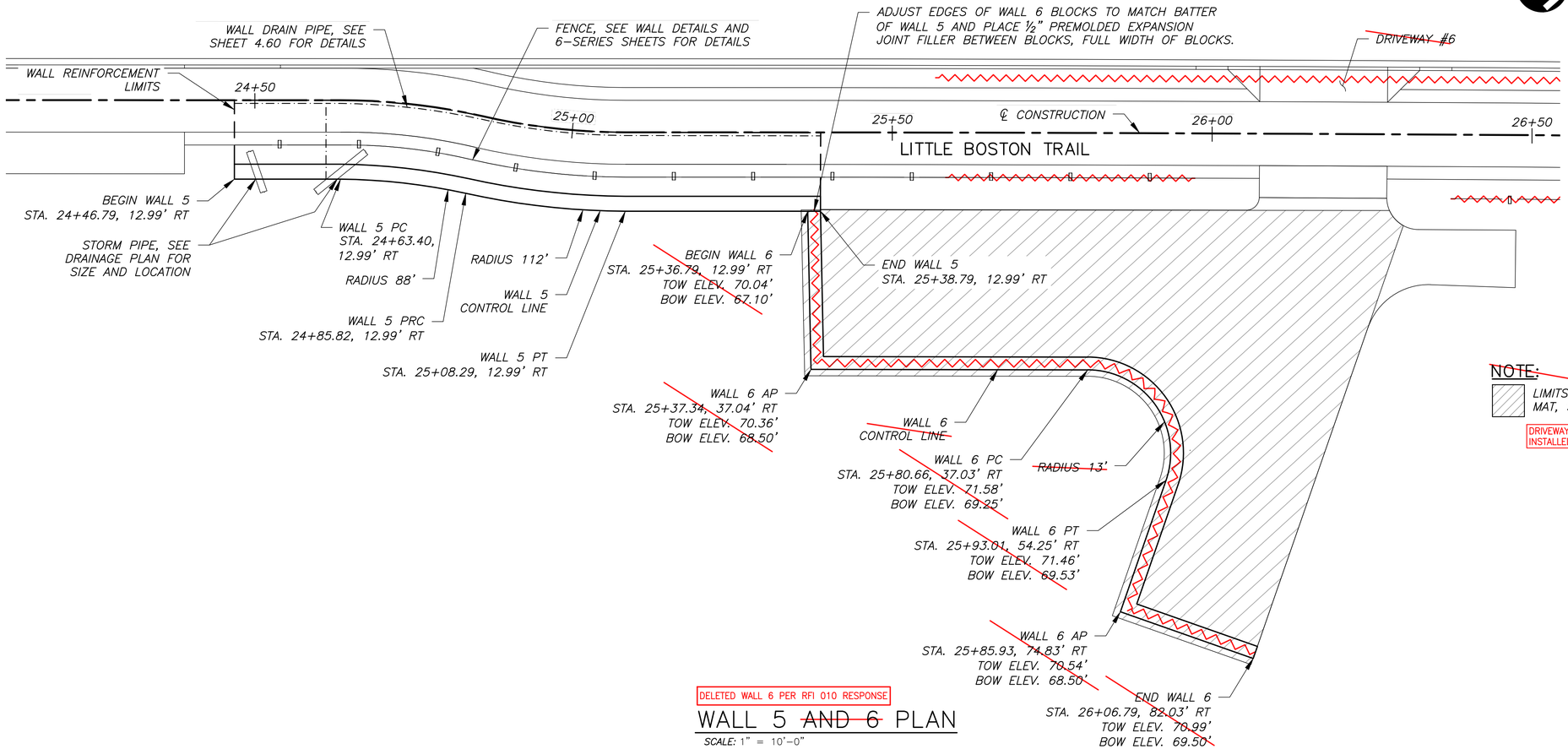


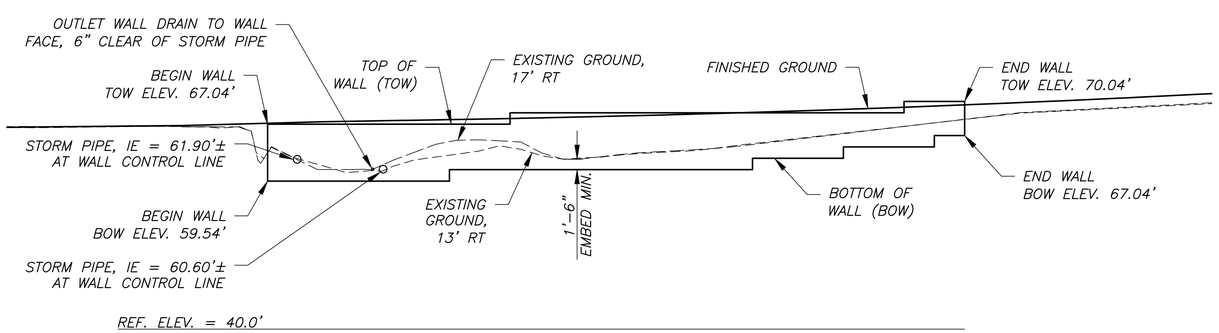
NOTE:
LIMITS OF DRIVEWAY STABILIZATION MAT, SEE SHEET 4.60 FOR DETAILS

DRIVEWAY STABILIZATION MAT NOT INSTALLED PER RFI 011 RESPONSE

DELETED WALL 6 PER RFI 010 RESPONSE

WALL 5 ~~AND 6~~ PLAN

SCALE: 1" = 10'-0"



WALL 5 ELEVATION

SCALE: 1" = 10'-0"

NOTES:
1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.
2. VERIFY STORM DRAIN LAYOUT ON 3-SERIES SHEETS.

WALL 5 TYPE: STRUCTURAL EARTH WALL (SEW)
~~WALL 6 TYPE: GRAVITY BLOCK WALL (GBW)~~

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 5 AND 6 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.53
DRAWING NO.

SHEET 50 OF 74

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Plotted: Sep 29, 2025 - 11:22am O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL LAYOUT.dwg Layout Name: 4.53

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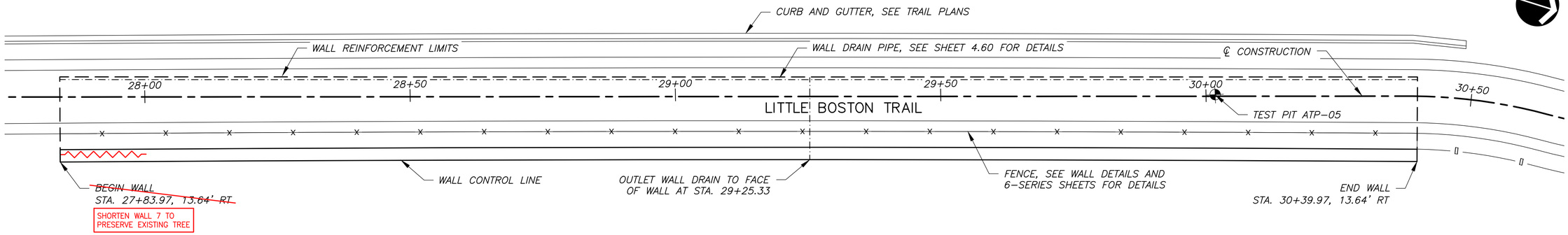
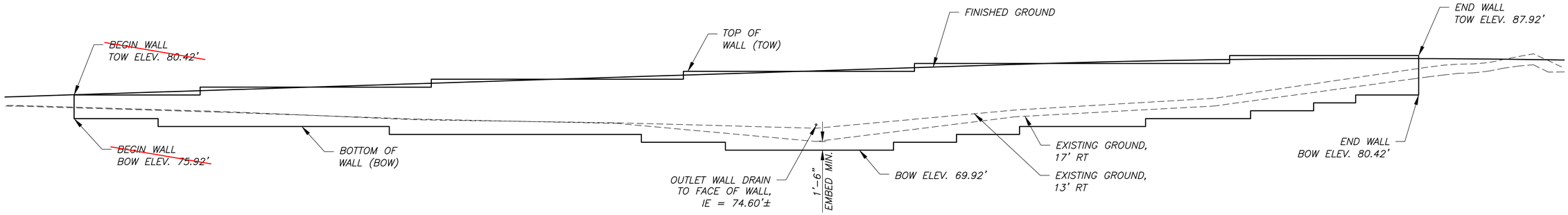


WALL 7 PLAN

SCALE: 1" = 10'-0"



WALL 7 ELEVATION

SCALE: 1" = 10'-0"

NOTES:

1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.
2. VERIFY STORM DRAIN LAYOUT ON

WALL 7 TYPE: STRUCTURAL EARTH WALL (SEW)

Know what's below. Call before you dig.

DESIGNER | DRAWN BY | CHECKED BY

NO.	REVISION COMMENTS	BY	REVIEW DATE

ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 7 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.54
DRAWING NO.

SHEET 51 OF 74

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Plotted: Sep 26, 2025 - 5:04pm 0:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL LAYOUT.dwg Layout Name: 4.54

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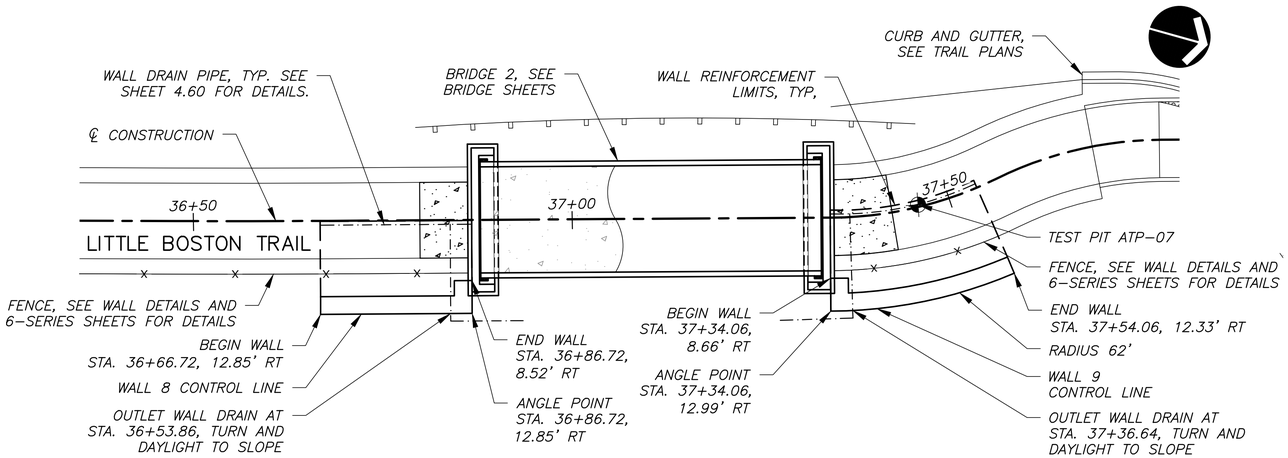
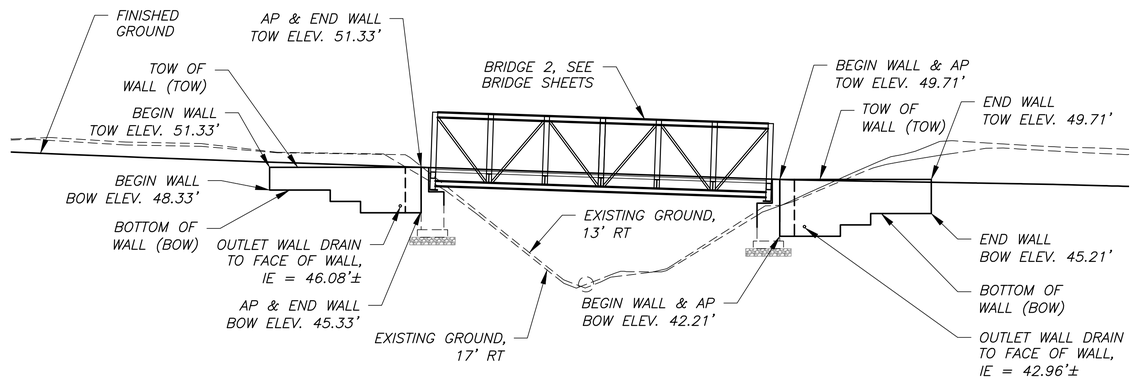


WALL 8 PLAN

SCALE: 1" = 10'-0"

WALL 9 PLAN

SCALE: 1" = 10'-0"



WALL 8 ELEVATION

SCALE: 1" = 10'-0"

WALL 9 ELEVATION

SCALE: 1" = 10'-0"

NOTES:
1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.

WALL 8 TYPE: STRUCTURAL EARTH WALL (SEW)
WALL 9 TYPE: STRUCTURAL EARTH WALL (SEW)

811 Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 8 AND 9 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.55
DRAWING NO.

SHEET 52 OF 74

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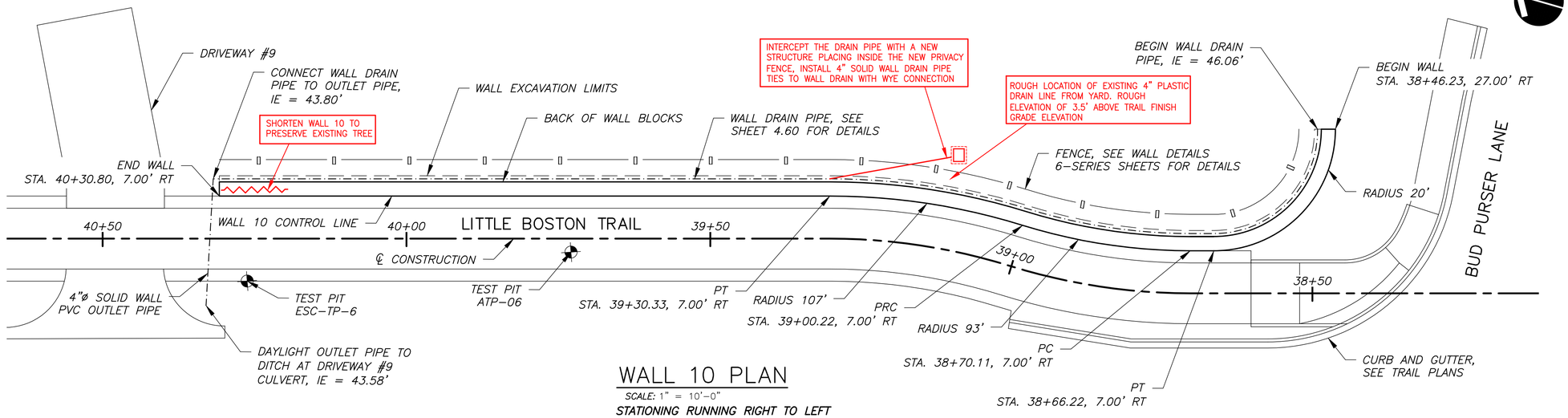
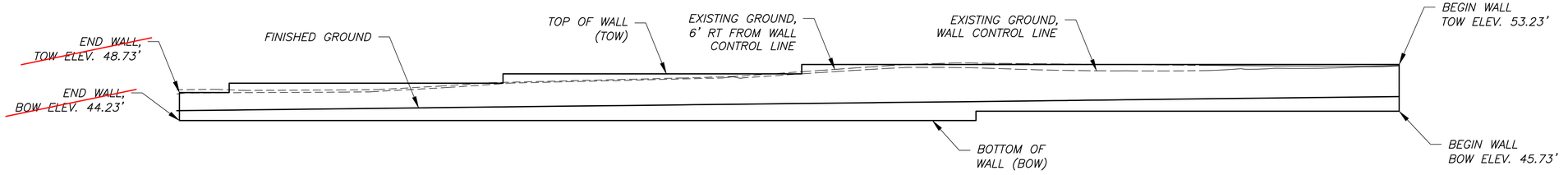


WALL 10 PLAN

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT



WALL 10 ELEVATION

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT

NOTES:

1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.

WALL 10 TYPE: GRAVITY BLOCK WALL (GBW)

Know what's below. Call before you dig.

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 10 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.56
DRAWING NO.

SHEET 53 OF 74

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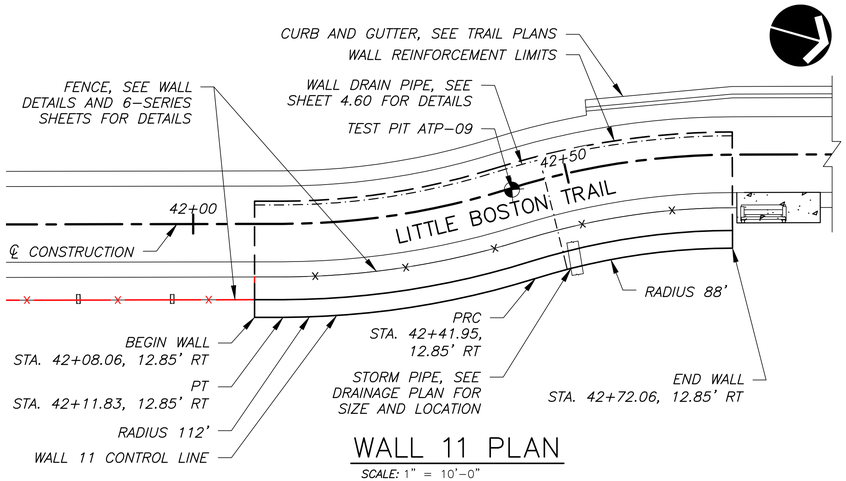
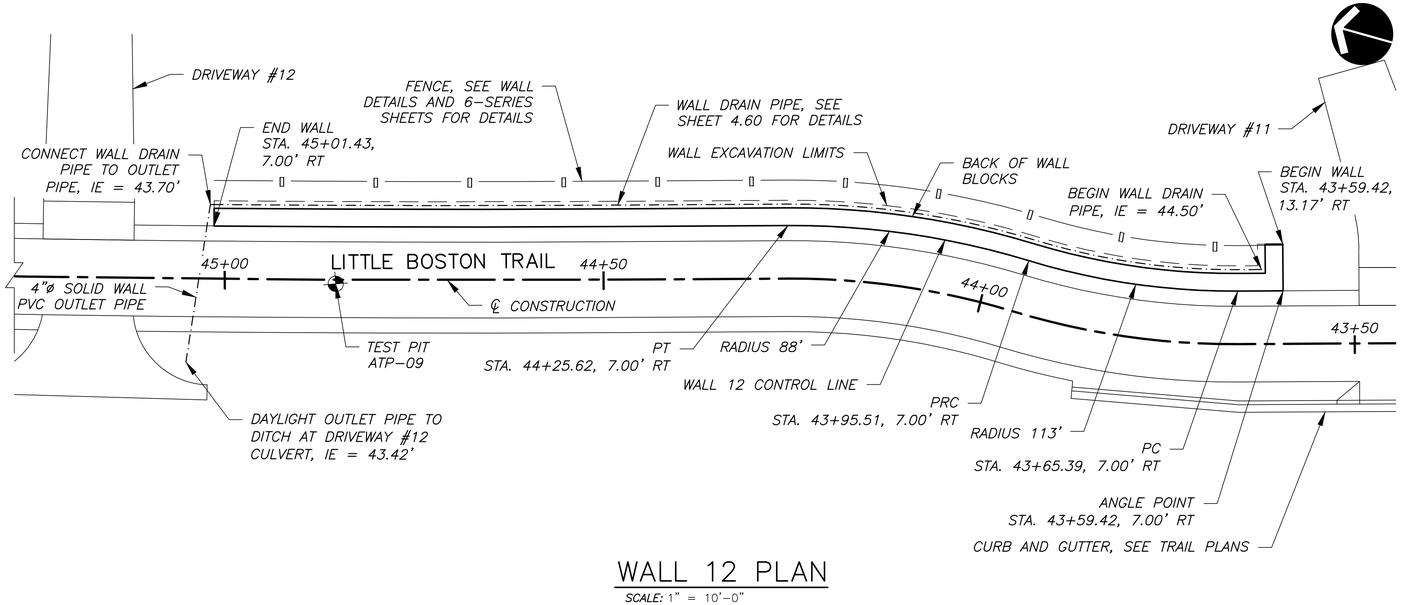


WALL 11 PLAN

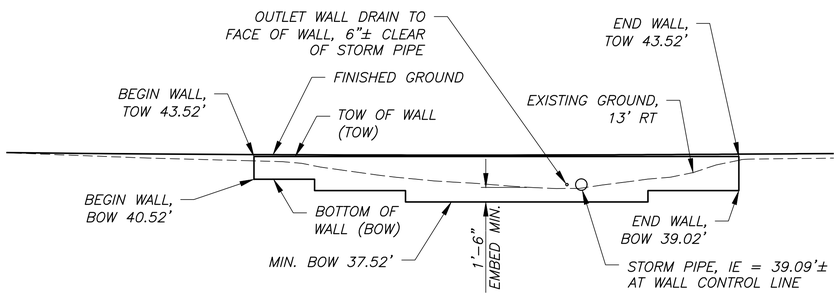
SCALE: 1" = 10'–0"



WALL 12 PLAN

SCALE: 1" = 10'–0"

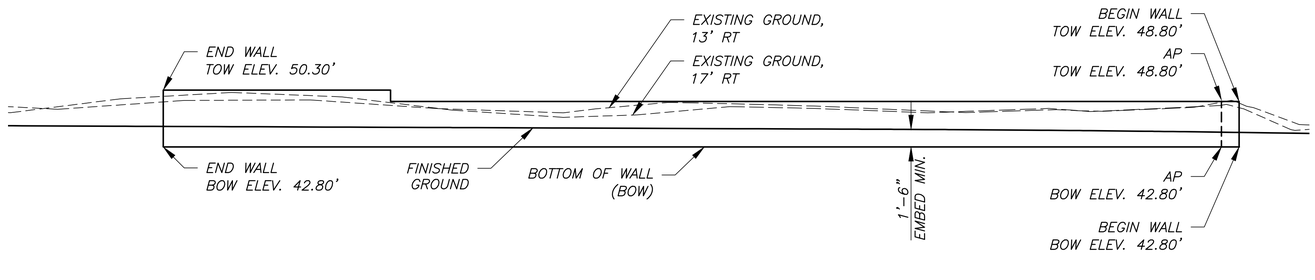
STATIONING RUNNING RIGHT TO LEFT



REF. ELEV. = 20.0'

WALL 11 ELEVATION

SCALE: 1" = 10'–0"



REF. ELEV. = 20.0'

WALL 12 ELEVATION

SCALE: 1" = 10'–0"

STATIONING RUNNING RIGHT TO LEFT

NOTES:

1. *STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.*
2. *VERIFY STORM DRAIN LAYOUT ON 3–SERIES SHEETS.*

WALL 11 TYPE: STRUCTURAL EARTH WALL (SEW)
WALL 12 TYPE: GRAVITY BLOCK WALL (GBW)

Know what's below. Call before you dig.

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ROBERT P. DOHERTY — STATE OF WASHINGTON — 43425 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 11 AND 12 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.57
DRAWING NO.

SHEET 54 OF 74

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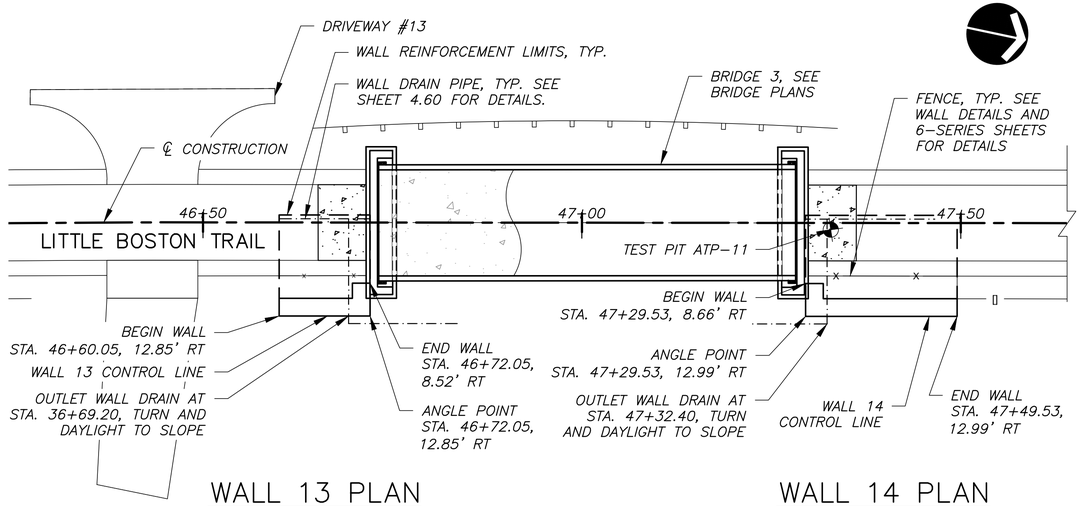
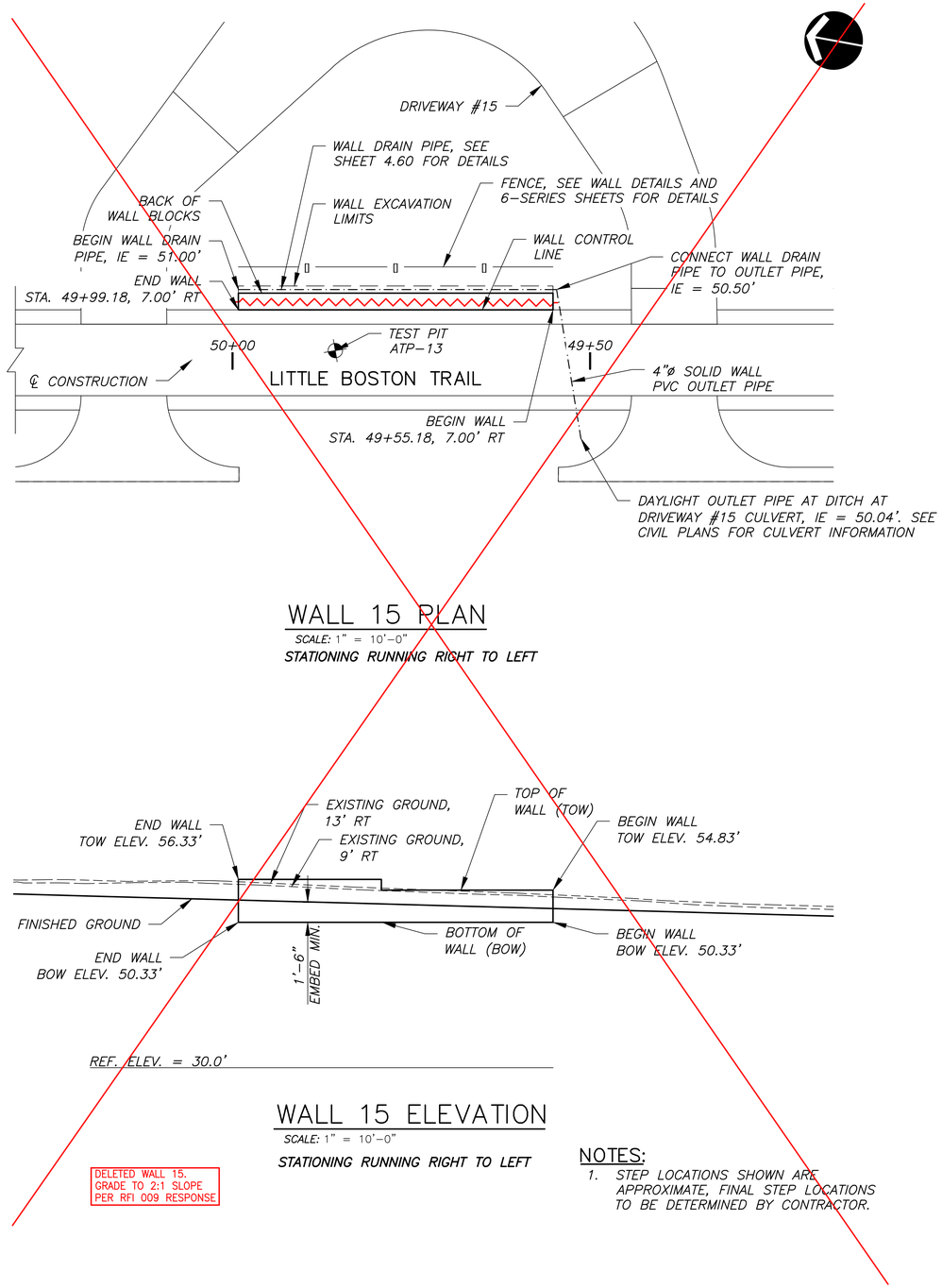


WALL 13 PLAN

SCALE: 1" = 10'-0"

WALL 14 PLAN

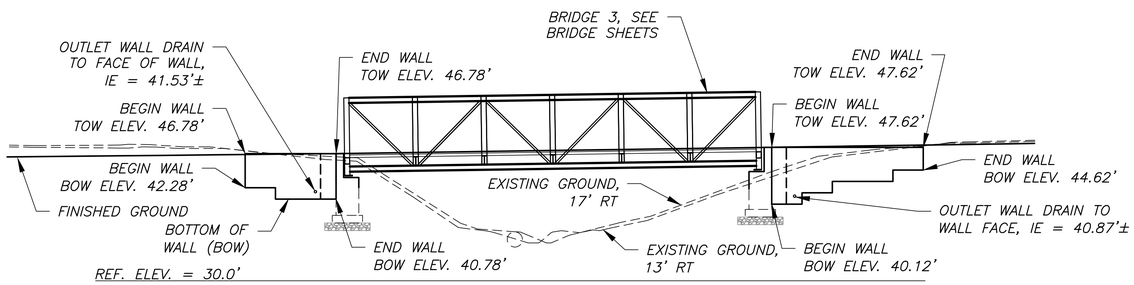
SCALE: 1" = 10'-0"



WALL 15 PLAN

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT



WALL 13 ELEVATION

SCALE: 1" = 10'-0"

WALL 14 ELEVATION

SCALE: 1" = 10'-0"

WALL 15 ELEVATION

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT

DELETED WALL 15.
GRADE TO 2:1 SLOPE
PER RFI 009 RESPONSE

NOTES:

1. *STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.*

WALL 13 TYPE: STRUCTURAL EARTH WALL (SEW)
WALL 14 TYPE: STRUCTURAL EARTH WALL (SEW)
~~WALL 15 TYPE: GRAVITY BLOCK WALL (GBW)~~

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL 13, 14, AND 15 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.58
DRAWING NO.

SHEET 55 OF 74

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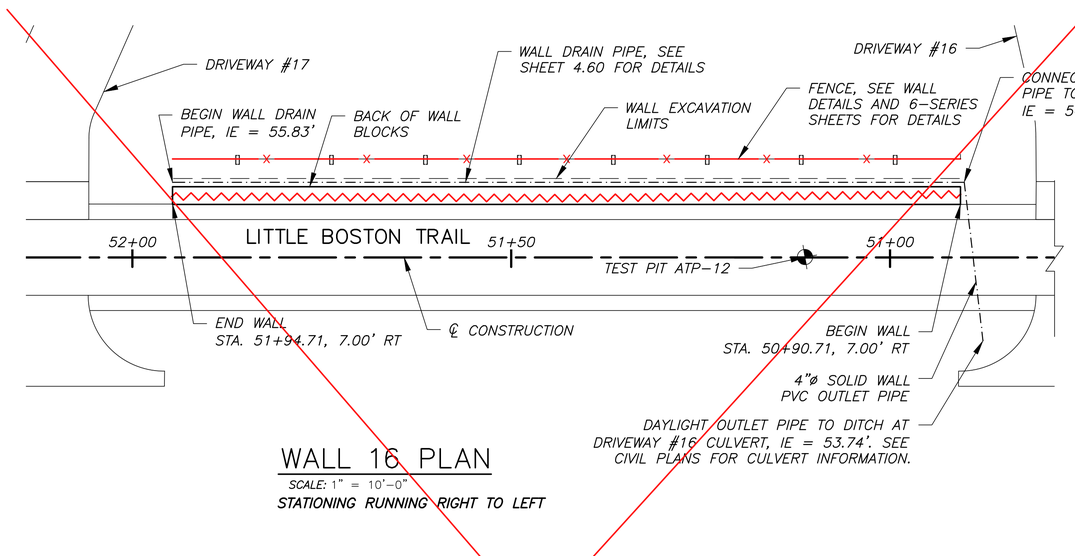
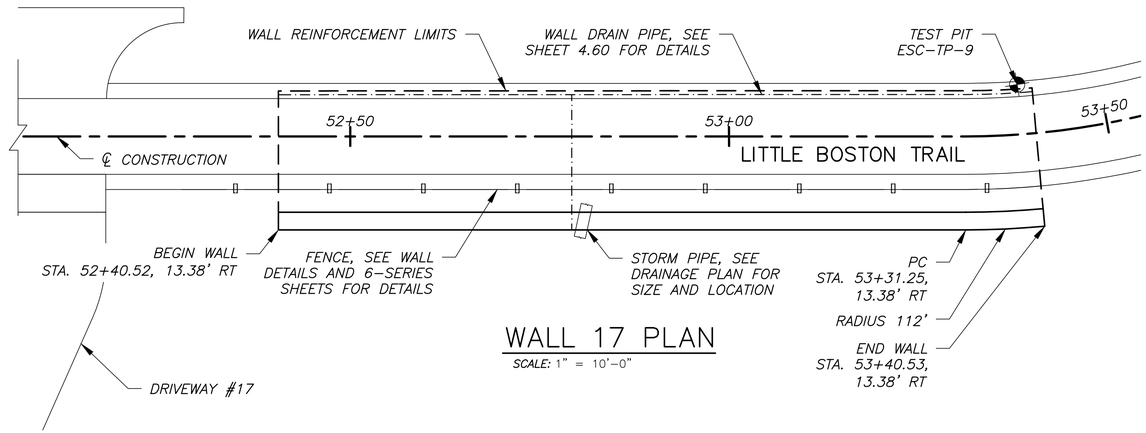


WALL 16 PLAN

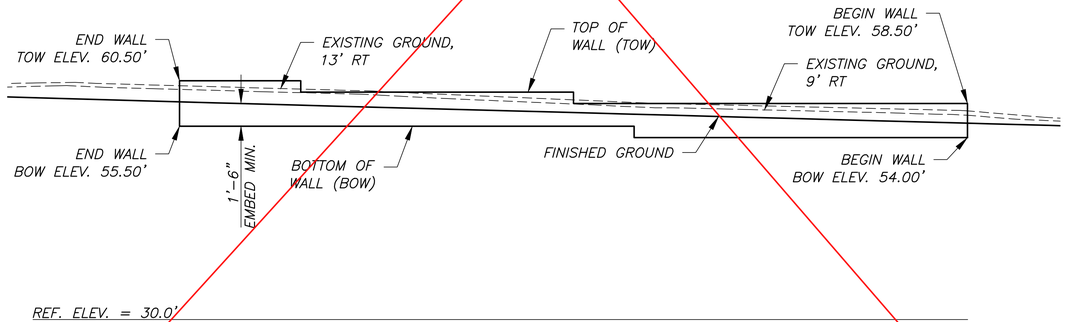
SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT



WALL 17 PLAN

SCALE: 1" = 10'-0"

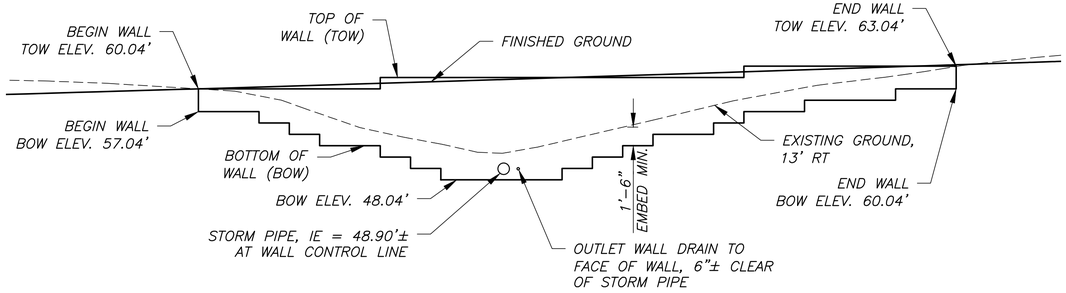


DELETED WALL 16. GRADE TO 2:1 SLOPE PER RFI 009 RESPONSE

WALL 16 ELEVATION

SCALE: 1" = 10'-0"

STATIONING RUNNING RIGHT TO LEFT



WALL 17 ELEVATION

SCALE: 1" = 10'-0"

NOTES:

1. STEP LOCATIONS SHOWN ARE APPROXIMATE, FINAL STEP LOCATIONS TO BE DETERMINED BY CONTRACTOR.
2. VERIFY STORM DRAIN LAYOUT ON 3-SERIES SHEETS.

~~WALL 16 TYPE: GRAVITY BLOCK WALL (GBW)~~

WALL 17 TYPE: STRUCTURAL EARTH WALL (SEW)

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY STATE OF WASHINGTON 43425 REGISTERED PROFESSIONAL ENGINEER

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025

YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE

LITTLE BOSTON ROAD PEDESTRIAN TRAIL

WALL 16 AND 17 LAYOUT

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.59
DRAWING NO.

SHEET 56 OF 74

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Plotted: Sep 26, 2025 - 5:04pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL LAYOUT.dwg Layout Name: 4.59

XREF LIST
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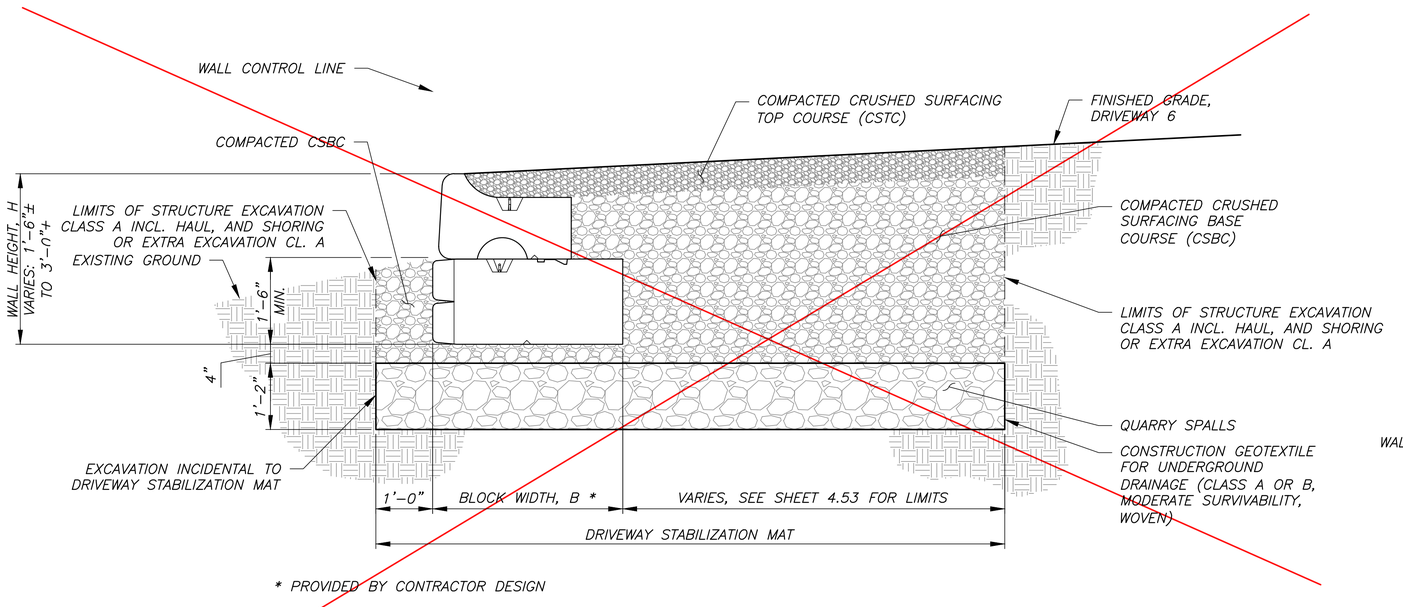


* PROVIDED BY CONTRACTOR DESIGN

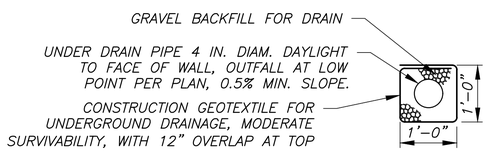
TYPICAL SECTION – WALL 6

SCALE:

GRAVITY BLOCK WALL

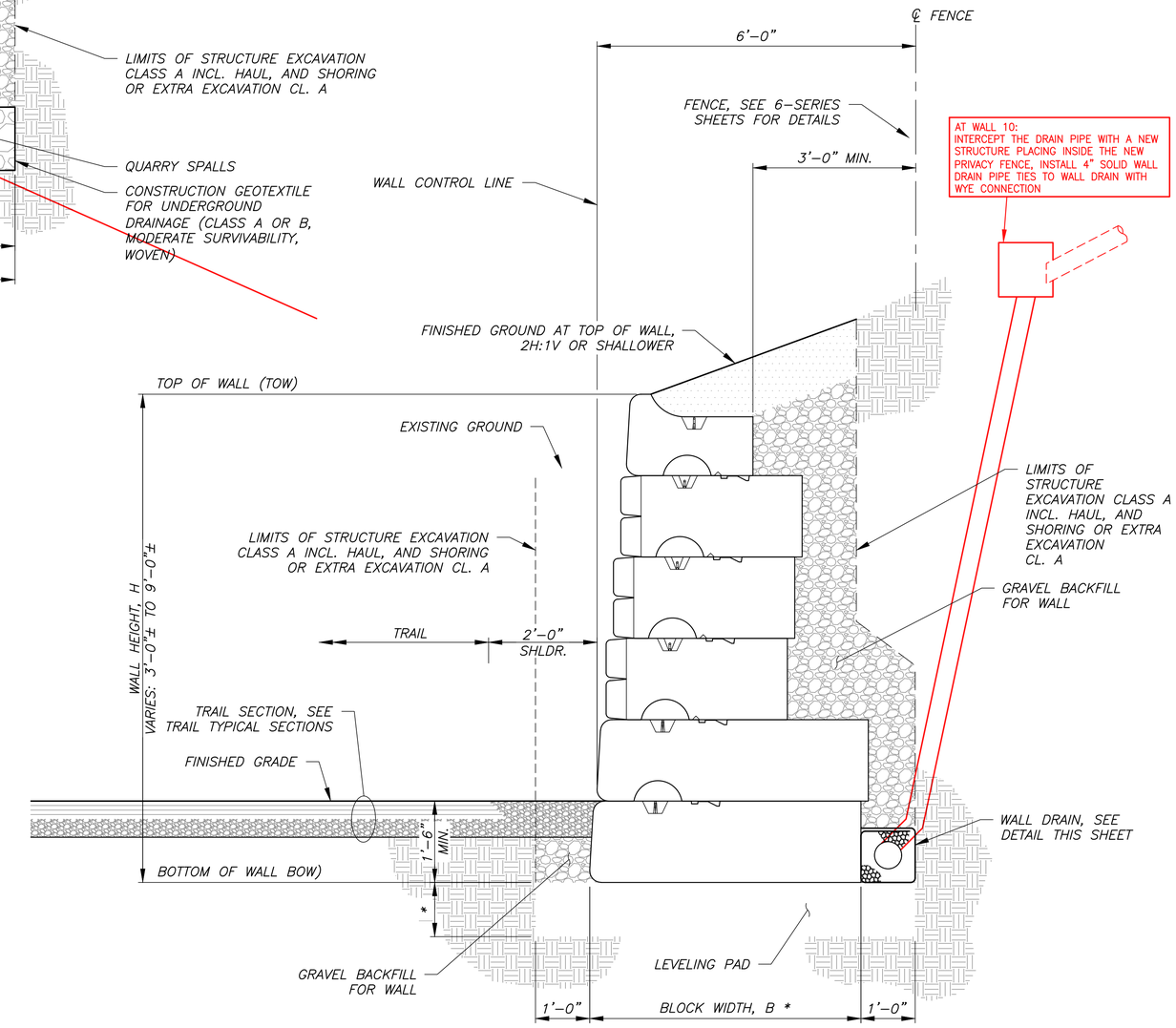
WALL 6 AND DRIVEWAY STABILIZATION MAT NOT INSTALLED PER RESPONSES TO RFI 10 AND RFI 11.

NOTE:
"DRIVEWAY STABILIZATION MAT – #31060" IS THE 1'–2" LAYER BELOW WALL 6, WITH QUARRY SPALLS WRAPPED IN CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE. EXCAVATION REQUIRED TO CONSTRUCT THE DRIVEWAY STABILIZATION MAT SHALL BE INCIDENTAL TO THE BID ITEM, "DRIVEWAY STABILIZATION MAT – #31060." EXCAVATION REQUIRED TO CONSTRUCT WALL 6 (ABOVE THE STABILIZATION MAT) WILL BE PAID UNDER THE BID ITEM "STRUCTURE EXCAVATION CLASS A INCL. HAUL".



WALL DRAIN DETAIL

SCALE:



* PROVIDED BY CONTRACTOR DESIGN

TYPICAL SECTION – CUT WALL

SCALE:

GRAVITY BLOCK WALL

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

ROBERT P. DOHERTY
STATE OF WASHINGTON
43425
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.60
DRAWING NO.

SHEET 57 OF 74

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Plotted: Sep 29, 2025 – 11:22am 0:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL DETAILS.dwg Layout Name: 4.60

XREF LIST
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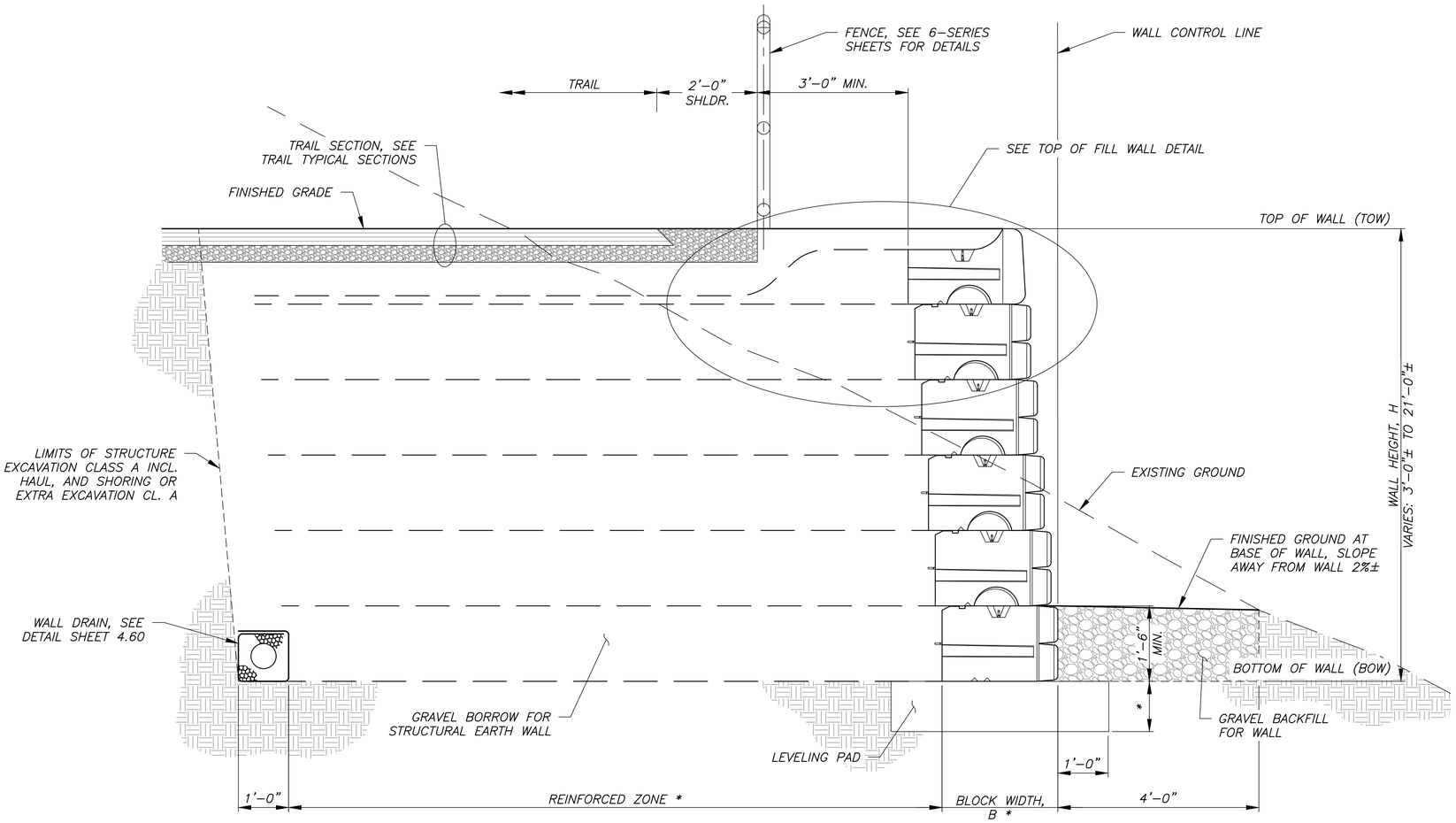
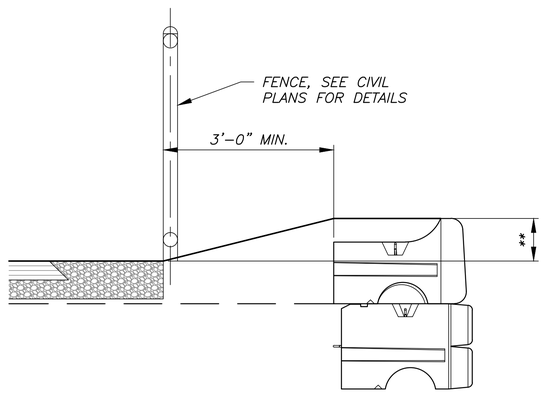


* PROVIDED BY CONTRACTOR DESIGN

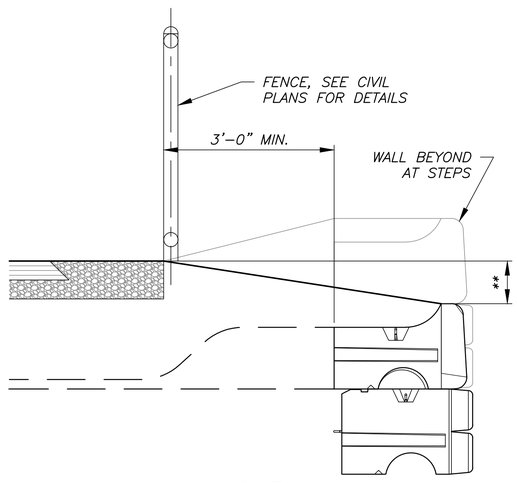
TYPICAL SECTION – FILL WALL

SCALE: 3/4" = 1'-0"

STRUCTURAL EARTH WALL



CONDITION A
(BLOCK ABOVE TRAIL GRADE)



CONDITION B
(BLOCK BELOW TRAIL GRADE)

** VERTICAL DISTANCE BETWEEN TOP OF WALL AND TRAIL FINISHED GRADE WILL VARY DUE TO RUNNING SLOPE OF TRAIL AND LEVEL OR STEPPED BLOCKS. STEP BLOCKS TO MINIMIZE VERTICAL DIMENSION. IN NO CASE SHALL THE VERTICAL DISTANCE BE GREATER THAN ONE BLOCK THICKNESS.

TOP OF FILL WALL DETAIL

SCALE: 3/4" = 1'-0"

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9/30/2025
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PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
WALL DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

4.61
DRAWING NO.

SHEET 58 OF 74

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Plotted: Sep 26, 2025 - 5:05pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\WALL DETAILS.dwg Layout Name: 4.61

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33386-HOUSES
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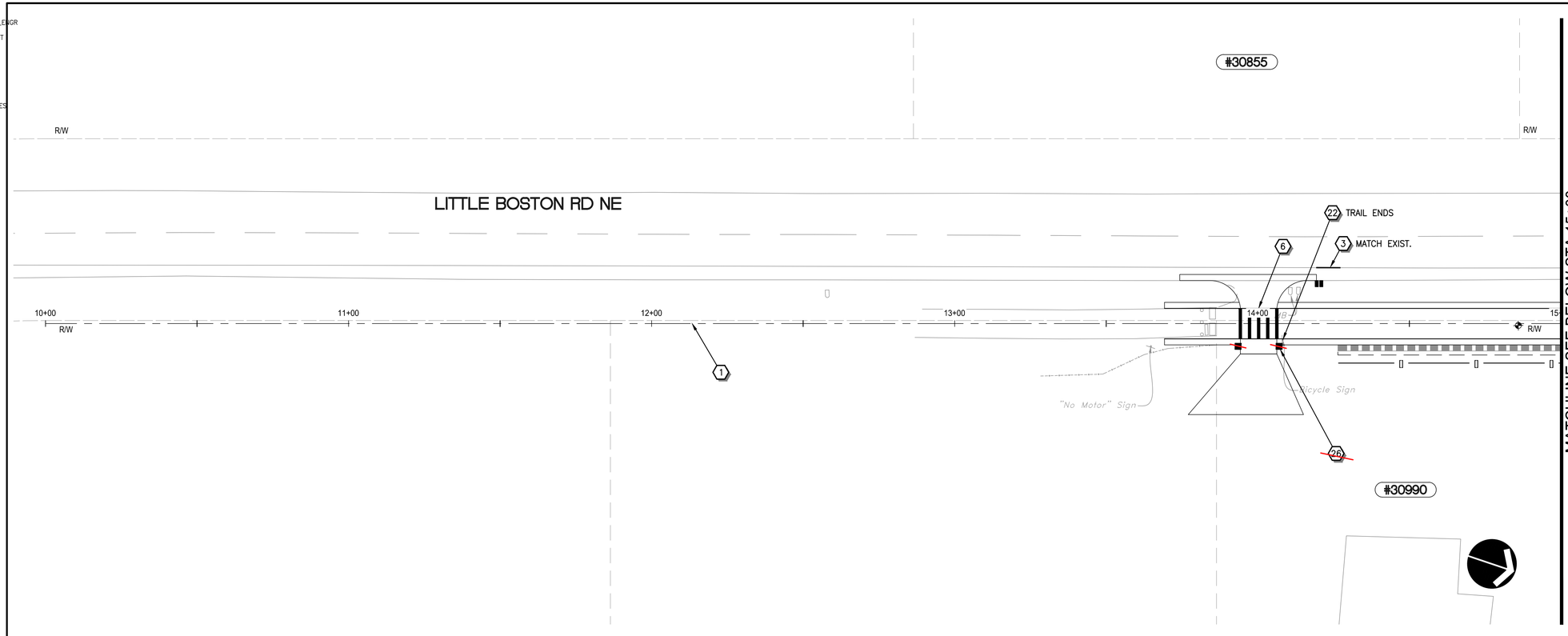

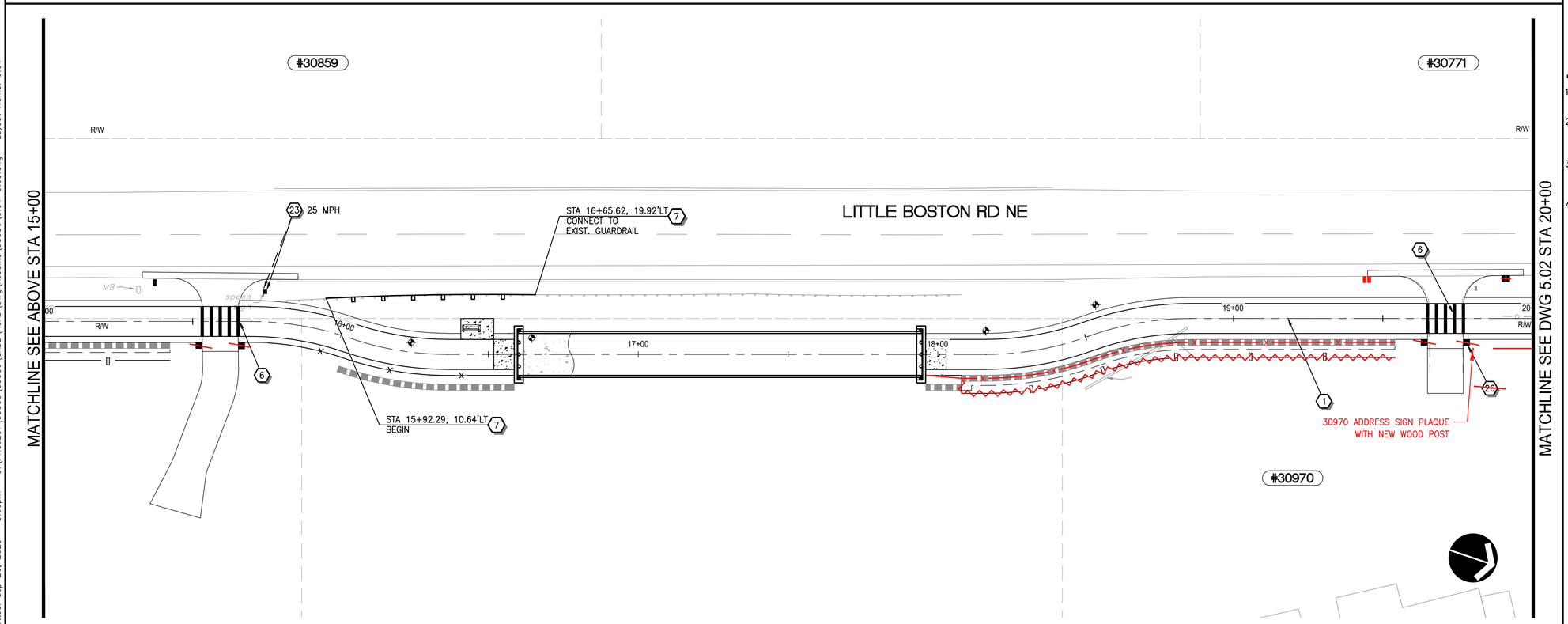

STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE DWG 1.03–1.07 FOR DETAILS.
2. INSTALL PAINTED DOUBLE YELLOW CENTER LINE PER WSDOT STD PLAN M–20.10–04.
3. INSTALL PAINTED EDGE LINE PER WSDOT STD PLAN M–20.10–04.
4. INSTALL THERMOPLASTIC CROSSWALK LINE PER KITSAP COUNTY STD DETAIL 5–2.
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6. INSTALL DRIVEWAY CROSSING TREATMENT PER DETAIL ON DWG 5.05.
7. INSTALL BEAM GUARDRAIL TYPE 31 PER WSDOT STD PLAN C–20.10–09. INSTALL NON–FLARED TREMINAL PER WSDOT STD PLAN C–22.45–06 AT THE END OF GUARDRAIL RUN.

SIGNING NOTES

21. EXISTING SIGN TO REMAIN.
22. REMOVE EXISTING SIGN.
23. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN. PROVIDE NEW POST.
24. INSTALL "PATH NARROWS" W5–4A (18"x18").
25. INSTALL STOP SIGN R1–1 (36"x36").
26. ~~SALVAGE ADDRESS SIGN PLAQUE AND REINSTALL ON NORTHERN DRIVEWAY SAFETY POST. SEE DWG 6.07 FOR DETAILS.~~ DRIVEWAY POSTS DELETED PER POST EMAIL DATED 5/15/2025
27. INSTALL "TRAIL ENDS" MODIFIED R9–9 (24"X12").

GENERAL NOTES

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4. EXISTING STRIPING SHALL BE REMOVED WHERE IT CONFLICTS WITH PROPOSED CHANNELIZATION.

20 0 20 40
SCALE IN FEET

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NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SIGNING AND STRIPING PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

5.01
DRAWING NO.

SHEET 59 OF 74

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33386R270
SHEET-LAYOUT
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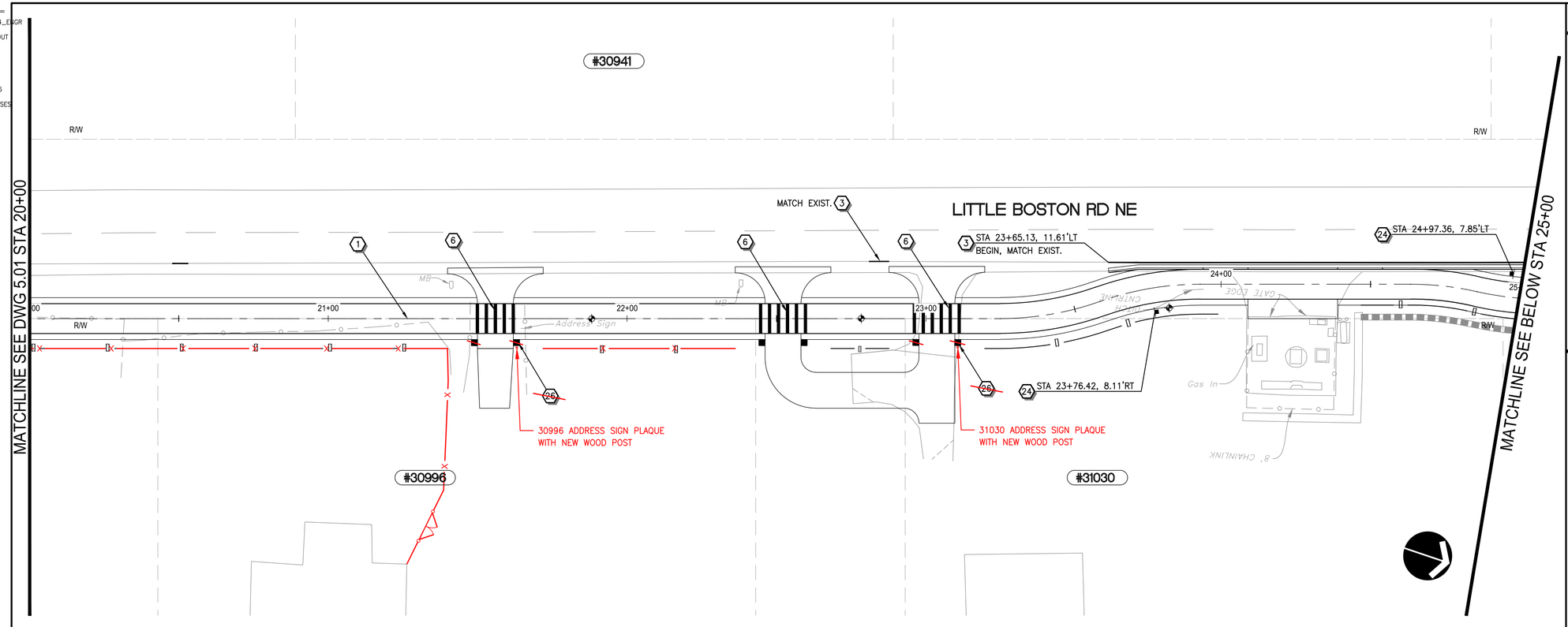

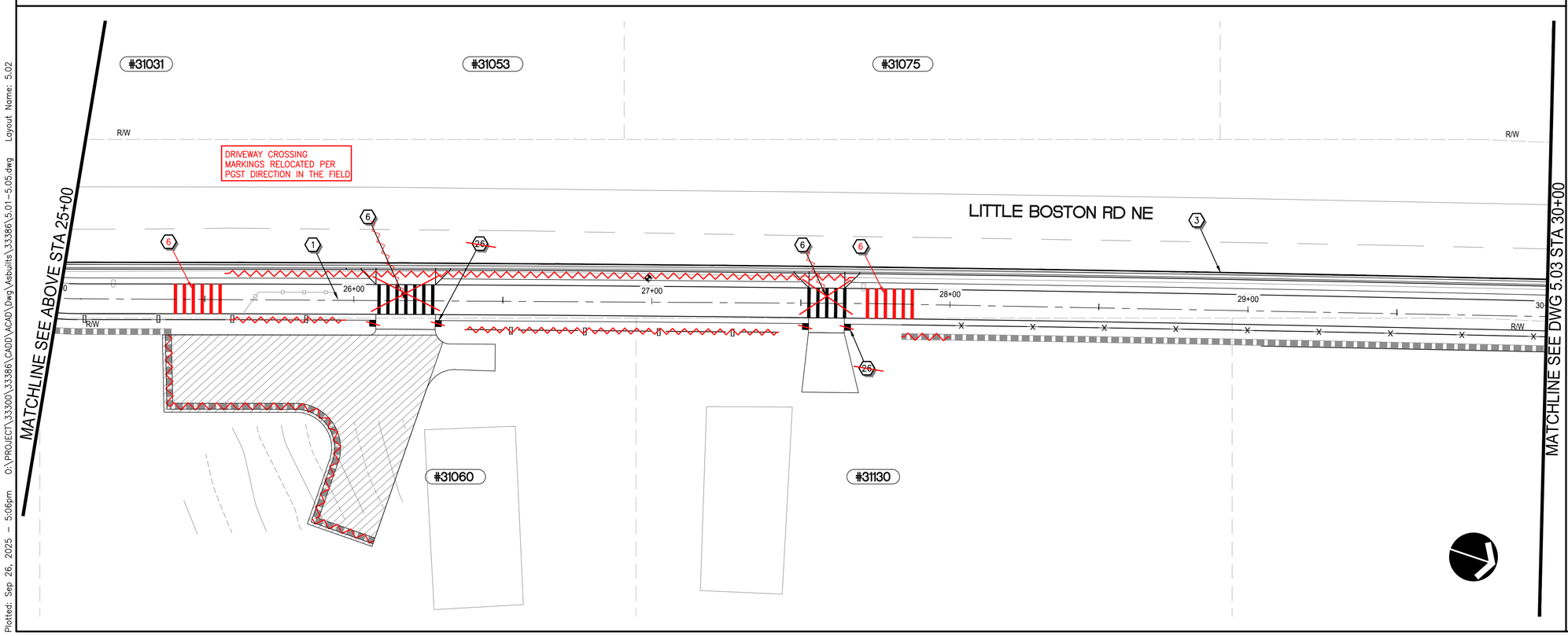

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SCALE IN FEET

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DESIGNER
DRAWN BY
CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SIGNING AND STRIPING PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

5.02
DRAWING NO.

SHEET 60 OF 74

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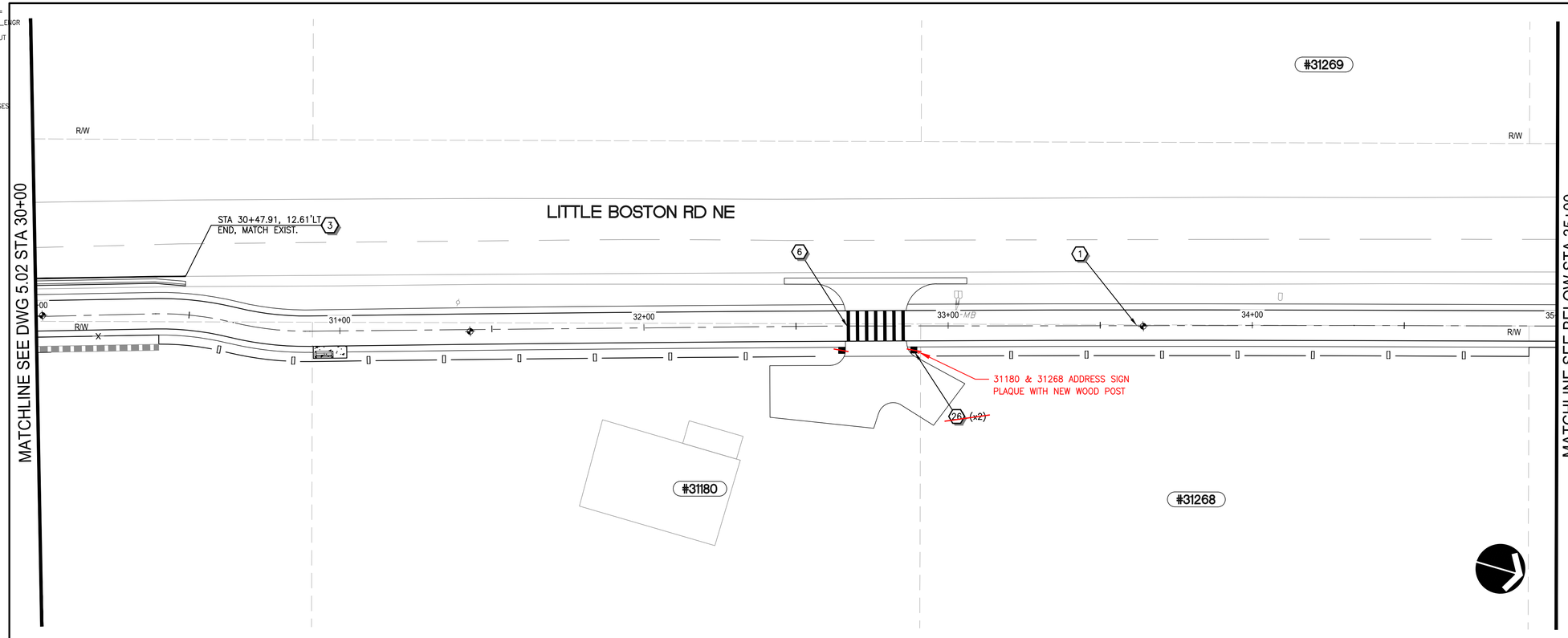

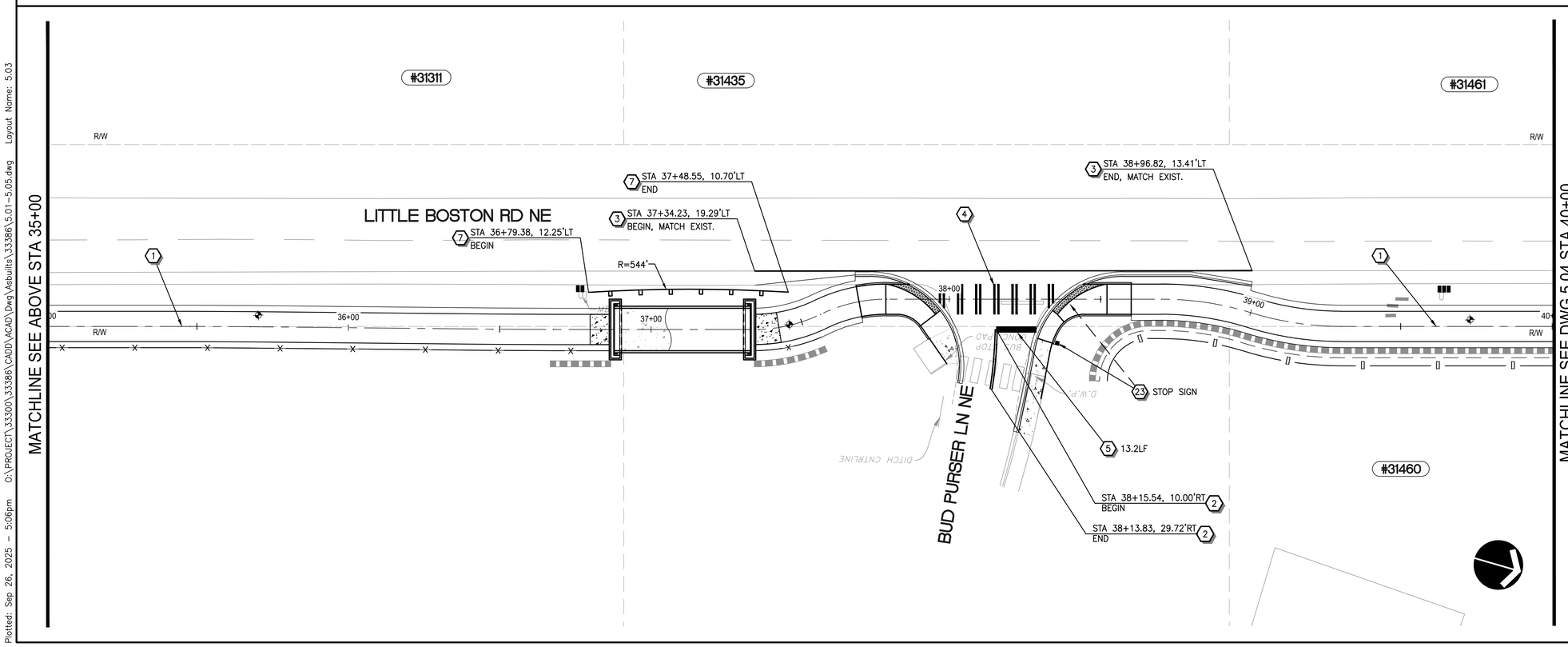

STRIPING NOTES

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CHECKED BY

MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025
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PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SIGNING AND STRIPING PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

5.03
DRAWING NO.

SHEET 61 OF 74

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XREF LIST
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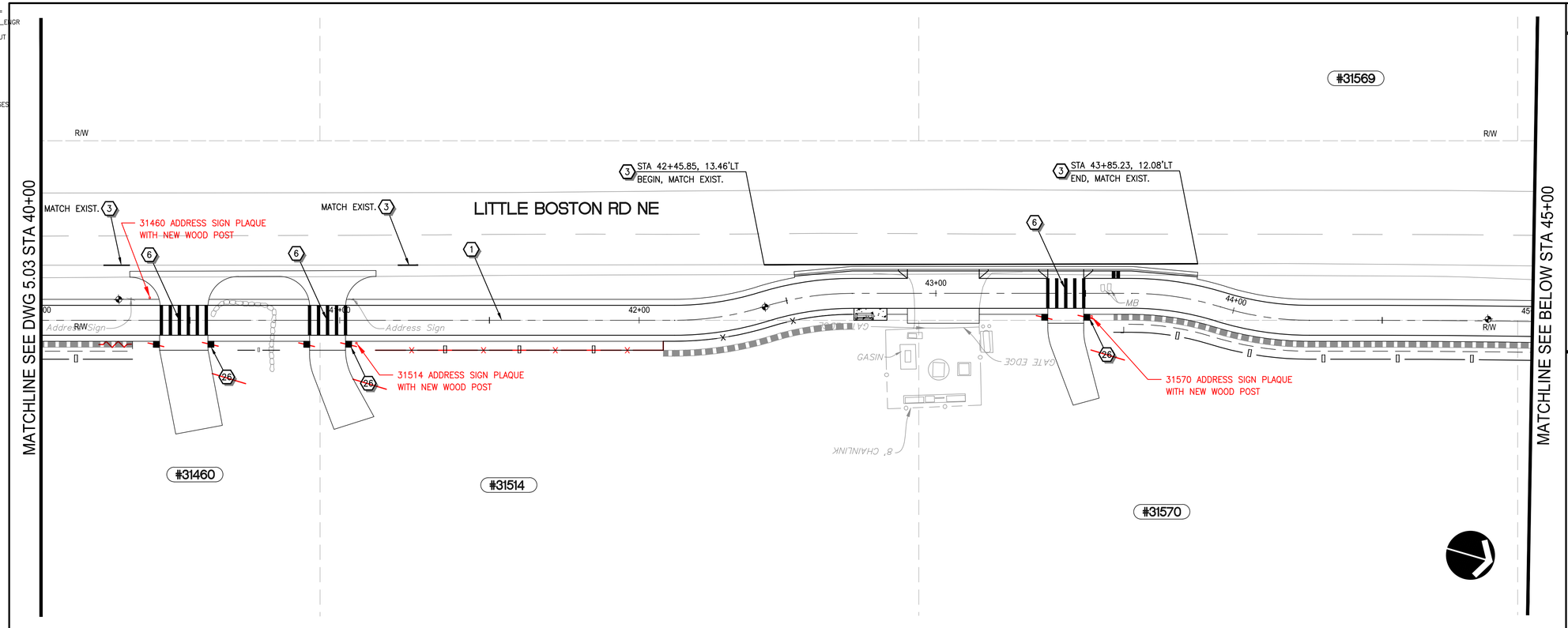

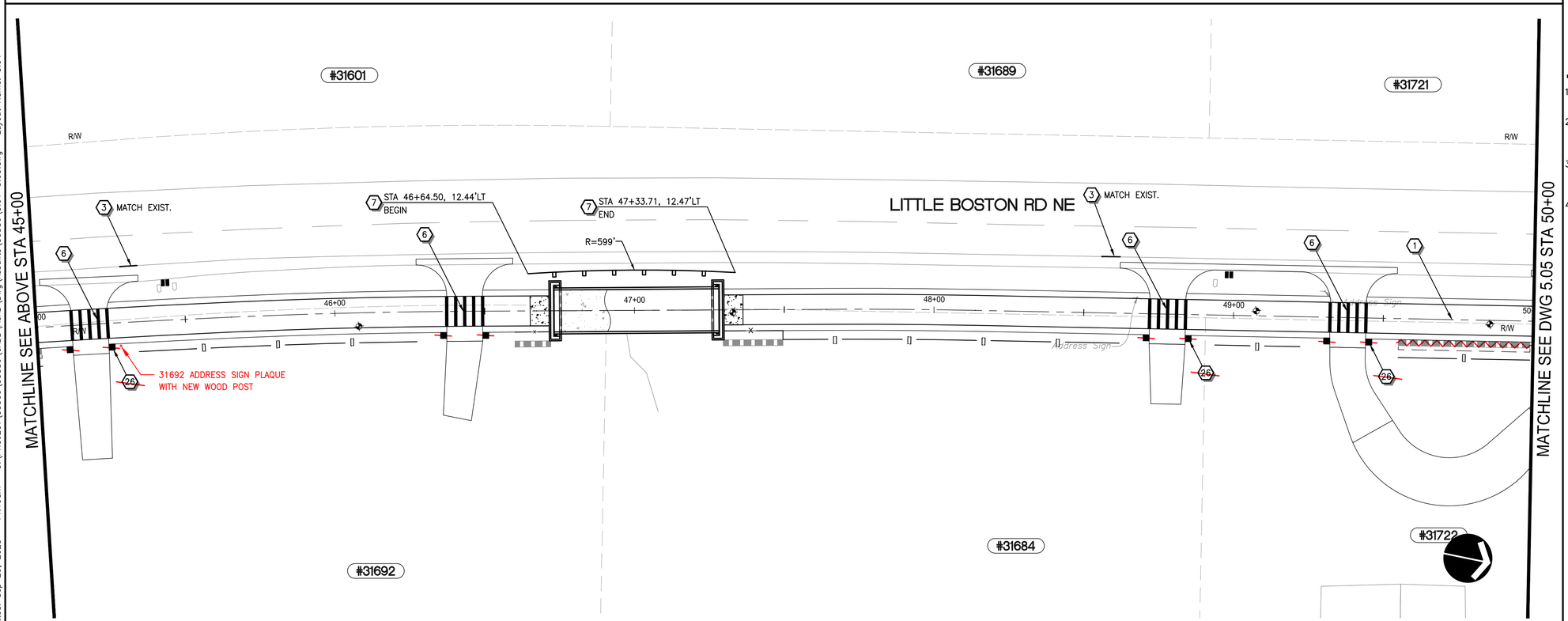

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LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SIGNING AND STRIPING PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

5.04
DRAWING NO.

SHEET 62 OF 74

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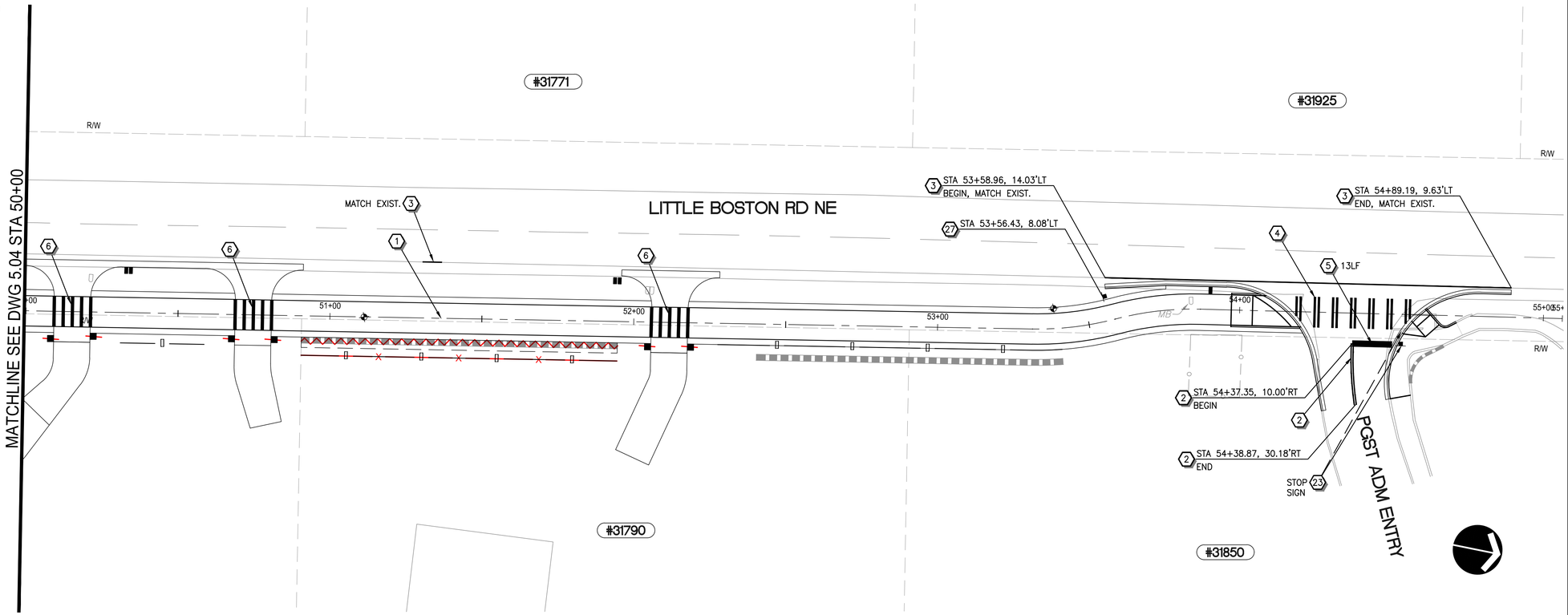
33386v700

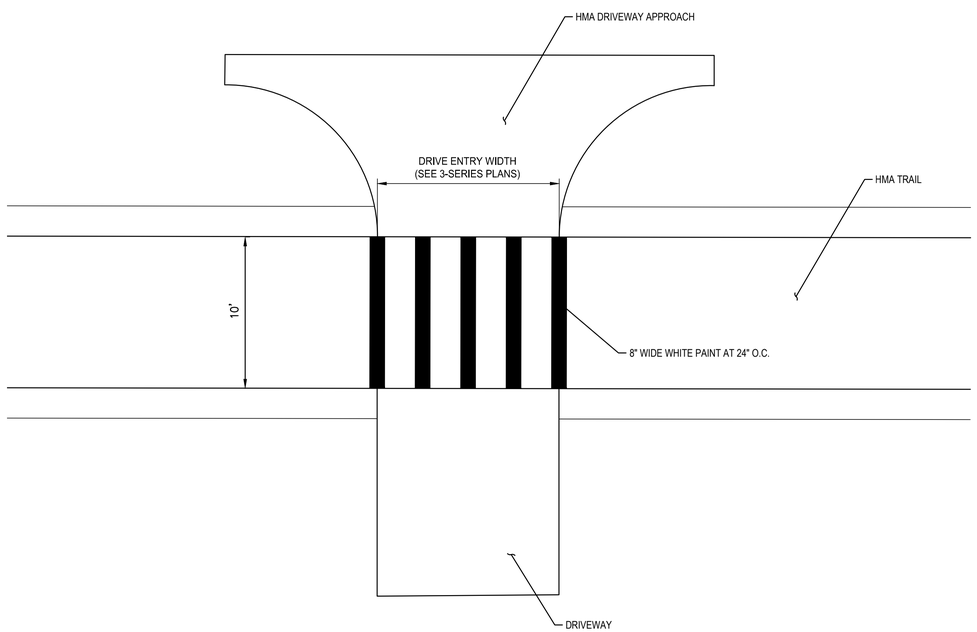


STRIPING NOTES

1. CONSTRUCTION CENTERLINE, SEE DWG 1.03–1.07 FOR DETAILS.
2. INSTALL PAINTED DOUBLE YELLOW CENTER LINE PER WSDOT STD PLAN M–20.10–04.
3. INSTALL PAINTED EDGE LINE PER WSDOT STD PLAN M–20.10–04.
4. INSTALL THERMOPLASTIC CROSSWALK LINE PER KITSAP COUNTY STD DETAIL 5–2.
5. INSTALL THERMOPLASTIC STOP LINE PER WSDOT STD PLAN M–15.10–02.
6. INSTALL DRIVEWAY CROSSING TREATMENT PER DETAIL ON DWG 5.05.
7. INSTALL BEAM GUARDRAIL TYPE 31 PER WSDOT STD PLAN C–20.10–09. INSTALL NON–FLARED TREMINAL PER WSDOT STD PLAN C–22.45–06 AT THE END OF GUARDRAIL RUN.

SIGNING NOTES

21. EXISTING SIGN TO REMAIN.
22. REMOVE EXISTING SIGN.
23. RELOCATE EXISTING SIGN TO NEW LOCATION AS SHOWN. PROVIDE NEW POST.
24. INSTALL "PATH NARROWS" W5–4A (18"x18").
25. INSTALL STOP SIGN R1–1 (36"x36").
26. ~~SALVAGE ADDRESS SIGN PLAQUE AND REINSTALL ON NORTHERN DRIVEWAY SAFETY POST. SEE DWG 6.07 FOR DETAILS.~~ DRIVEWAY POSTS DELETED PER PGST EMAIL DATED 5/15/2025
27. INSTALL "TRAIL ENDS" MODIFIED R9–9 (24"X12").



DRIVEWAY CROSSING TREATMENT

NTS

GENERAL NOTES

1. SIGNS SHALL BE INSTALLED PER KITSAP COUNTY STD DETAIL 5–1.
2. ALL SIGNS SHALL BE INSTALLED TO FACE ONCOMING TRAFFIC (AS SHOWN) UNLESS NOTED OTHERWISE.
3. SEE MUTCD AND WSDOT "SIGN FABRICATION MANUAL" FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS.
4. EXISTING STRIPING SHALL BE REMOVED WHERE IT CONFLICTS WITH PROPOSED CHANNELIZATION.

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DESIGNER
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MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SIGNING AND STRIPING PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

5.05
DRAWING NO.

SHEET 63 OF 74

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BASEMAP
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33386X800
33386T460
33386V700
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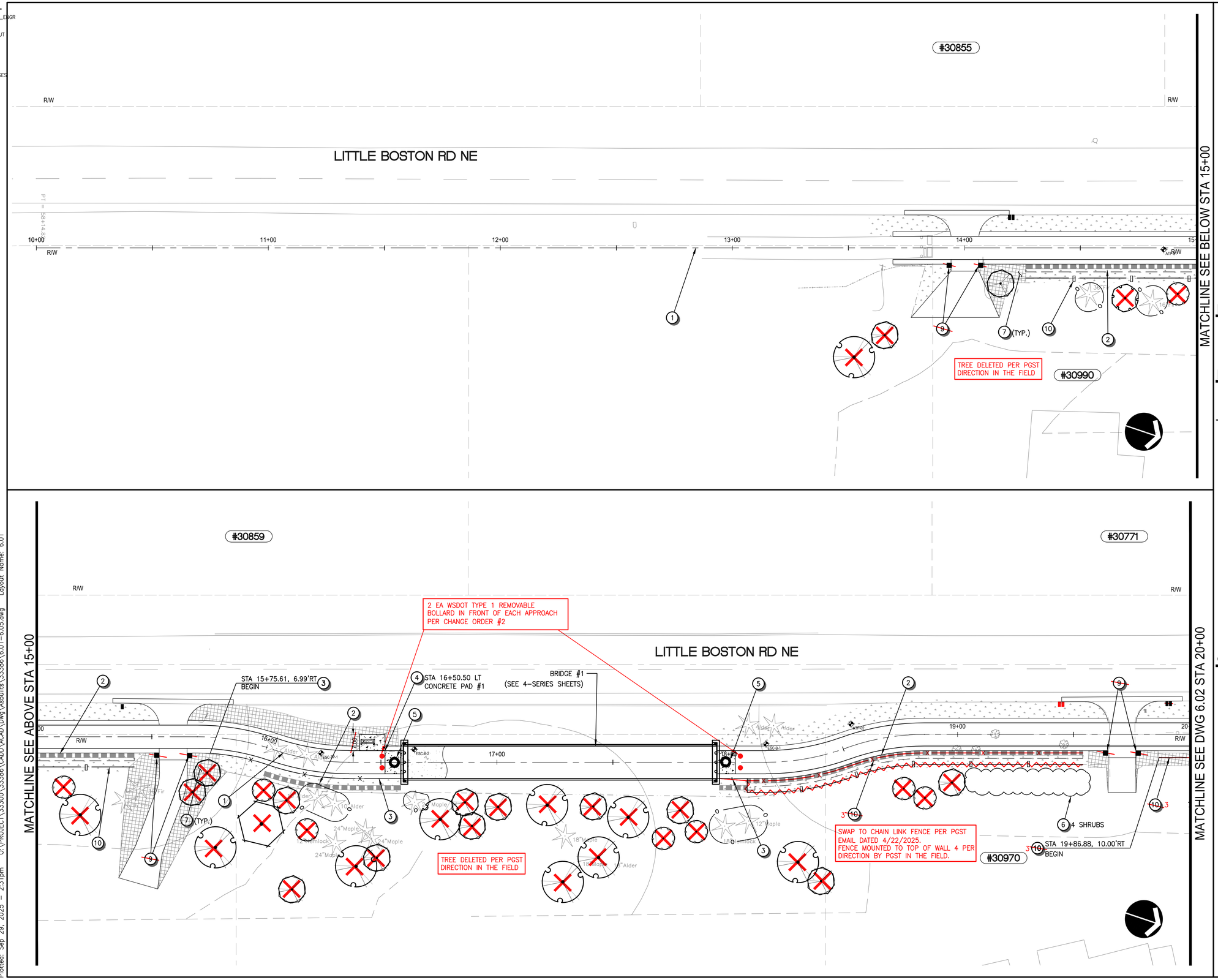
33386-HOUSES



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DRIVEWAY POSTS DELETED PER PGST EMAIL DATED 5/15/2025.

LEGEND

- LANDSCAPE RESTORATION
- NATIVE GRASS SEED MIX

PROPOSED TREES

- ABIES GRANDIS GRAND FIR
- ACER CIRCINATUM VINE MAPLE
- ALNUS RUBRA RED ALDER
- CALOCEDRUS DECURRENS INCENSE CEDAR
- PICEA SITCHENSIS SITKA SPRUCE
- PINUS CONTORTA SHORE PINE
- PSEUDOTSUGA MENZIESII DOUGLAS FIR
- THUJA PLICATA WESTERN RED CEDAR
- TSUGA MERTENSIANA MOUNTAIN HEMLOCK
- TREE DELETED PER PGST FIELD DIRECTION

GENERAL NOTES

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STATE OF WASHINGTON
BENJAMIN JAY SCHNEIDER
No. 24611 EXP. 07/12/2026
LICENSED LANDSCAPE ARCHITECT

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LANDSCAPE RESTORATION/TRAIL AMENITIES

TITLE

Otak
11241 Willows Road NE, Suite 200
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425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.01
DRAWING NO.

SHEET 64 OF 74

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XREF LIST
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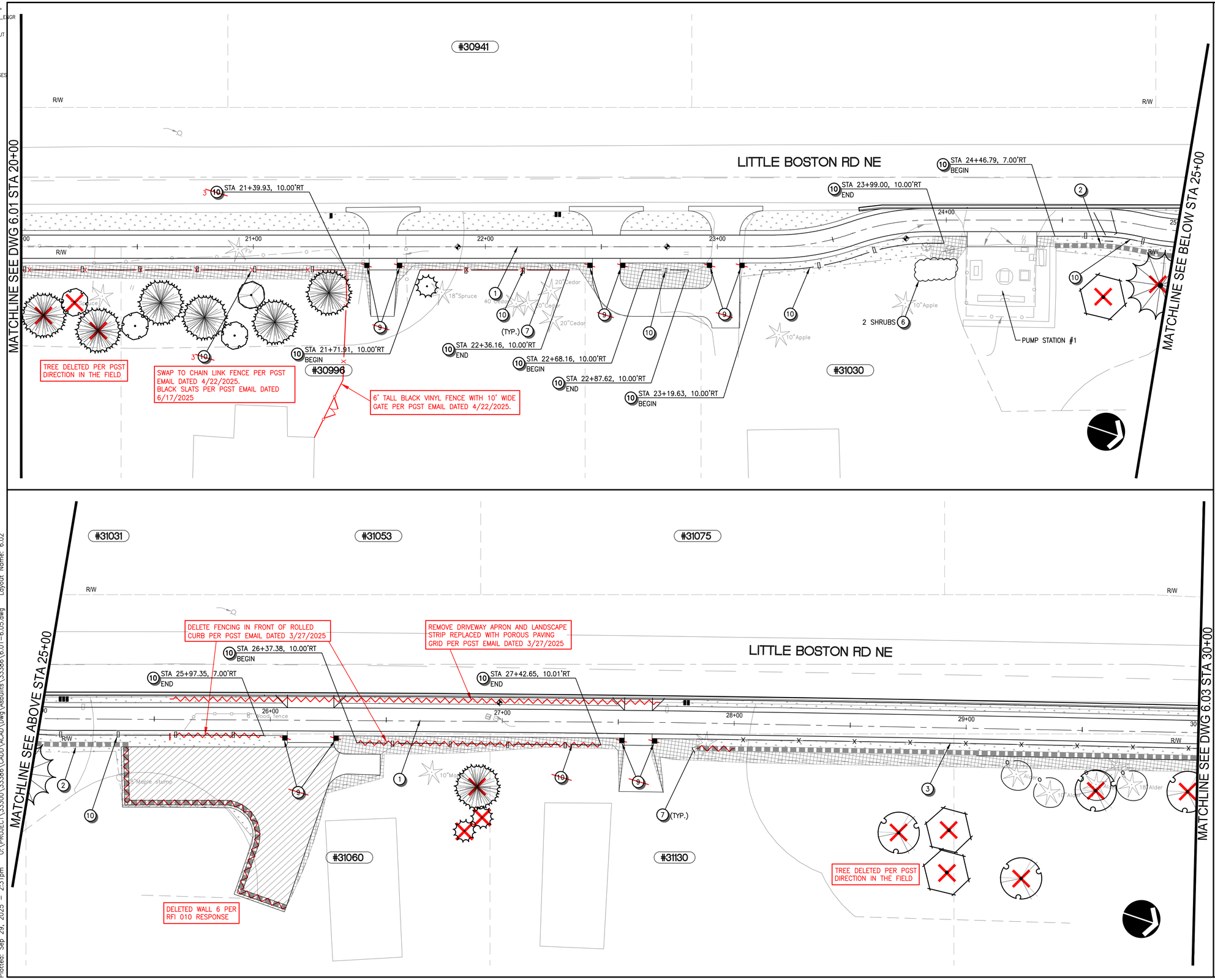

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EXP. 07/12/2026
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LANDSCAPE RESTORATION/TRAIL AMENITIES

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.02
DRAWING NO.

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XREF LIST
_OTAK22X34_ENGR
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33386R500
SHEET-LAYOUT
BASEMAP
33386N036
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33386V700
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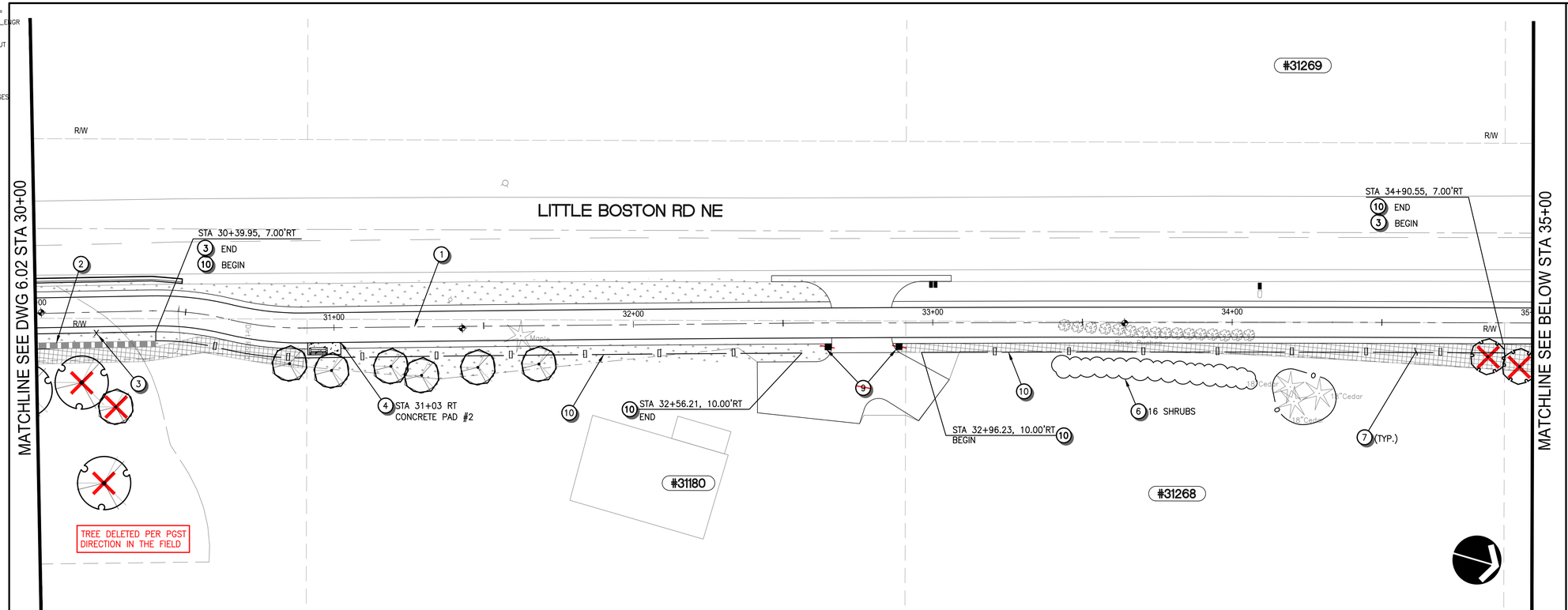

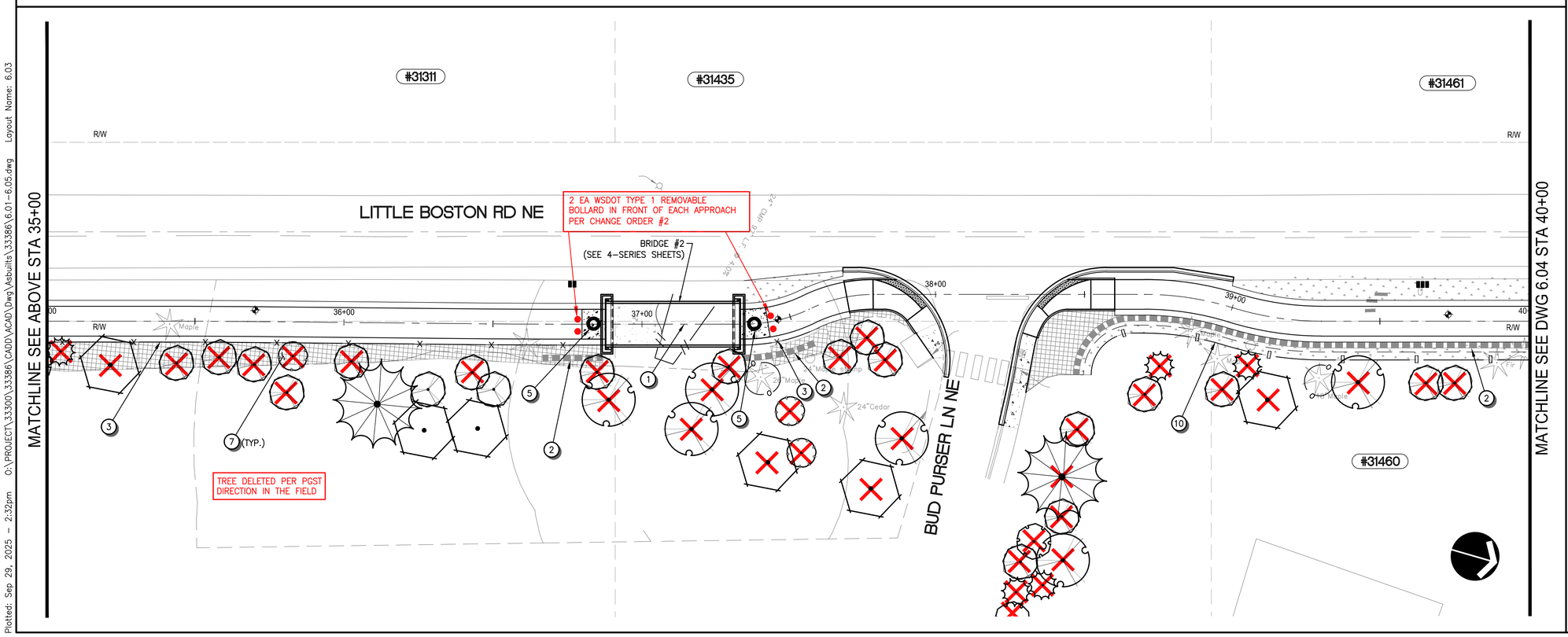

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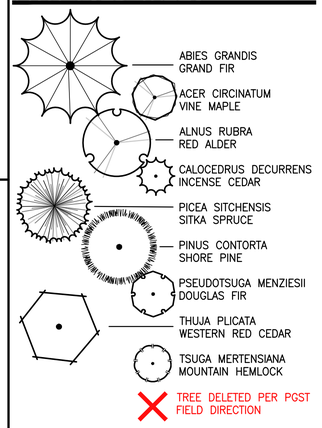
LEGEND

- LANDSCAPE RESTORATION
- NATIVE GRASS SEED MIX

PROPOSED TREES



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No. 24611
EXP. 07/12/2026
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PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
LANDSCAPE RESTORATION/TRAIL AMENITIES

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.03
DRAWING NO.

SHEET 66 OF 74

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XREF LIST
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33386R270
33386R500
SHEET-LAYOUT
BASEMAP
33386N036
33386X800
33386T460
33386V700
33386N100
33386-HOUSES

MATCHLINE SEE DWG 6.03 STA 40+00

MATCHLINE SEE BELOW STA 45+00

#31569

LITTLE BOSTON RD NE

R/W

STA 41+11.94, 10.00'RT
3 10 BEGIN

STA 40+79.94, 10.00'RT
10 END

STA 40+65.93, 10.00'RT
10 BEGIN
2

STA 42+08.07, 7.00'RT
3 10 END
3 BEGIN

4 STA 42+84 RT
CONCRETE PAD #3

1

43+00
41+00
42+00
44+00

Evergreen Shrubs
Maple
Maple stump
24" Maple stump
24" Cedar
4" Cedar
Maple

5 SHRUBS 6

7 (TYP.)

PUMP STATION #2

STA 40+30.80, 13.00'RT
10 END

#31460

SWAP TO CHAIN LINK FENCE PER PGST EMAIL DATED 4/22/2025.
BLACK SLATS PER PGST EMAIL DATED 6/17/2025

#31514

TREE DELETED PER PGST DIRECTION IN THE FIELD

#31570

MATCHLINE SEE ABOVE STA 45+00

MATCHLINE SEE DWG 6.05 STA 50+00

#31601

#31689

#31721

#31692

#31684

#31722

2 EA WSDOT TYPE 1 REMOVABLE BOLLARD IN FRONT OF EACH APPROACH PER CHANGE ORDER #2

BRIDGE #3
(SEE 4-SERIES SHEETS)

STA 46+27.26, 10.00'RT
10 END

STA 45+34.08, 10.00'RT
10 BEGIN

STA 47+49.53, 7.00'RT
3 END
10 BEGIN

LITTLE BOSTON RD NE

STA 49+99.18, 10.00' 13.00' RT
10 END

STA 49+55.18, 10.00' 13.00' RT
10 BEGIN

DELETED WALL 15. GRADE TO 2:1 SLOPE PER RFI 009 RESPONSE

46+00
47+00
48+00
49+00

26" Maple
36" Maple
8" Cherry
14" Apple
14" Cherry

STA 48+62.00, 10.00'RT
10 END

6 4 SHRUBS/TREES

7 (TYP.)

STA 48+93.95, 10.00'RT
10 BEGIN

STA 49+22.36, 10.00'RT
10 END

1 SHRUB 6

DELETE PLANTER BOX PER PGST DIREATION IN THE FIELD

TREE DELETED PER PGST DIRECTION IN THE FIELD

CONSTRUCTION NOTES

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LEGEND

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- NATIVE GRASS SEED MIX

PROPOSED TREES

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- ALNUS RUBRA — RED ALDER
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STATE OF WASHINGTON
BENJAMIN JAY SCHNEIDER
No. 25871
EXP. 07/12/2026
LICENSED LANDSCAPE ARCHITECT

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
LANDSCAPE RESTORATION/TRAIL AMENITIES

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.04
DRAWING NO.

SHEET 67 OF 74

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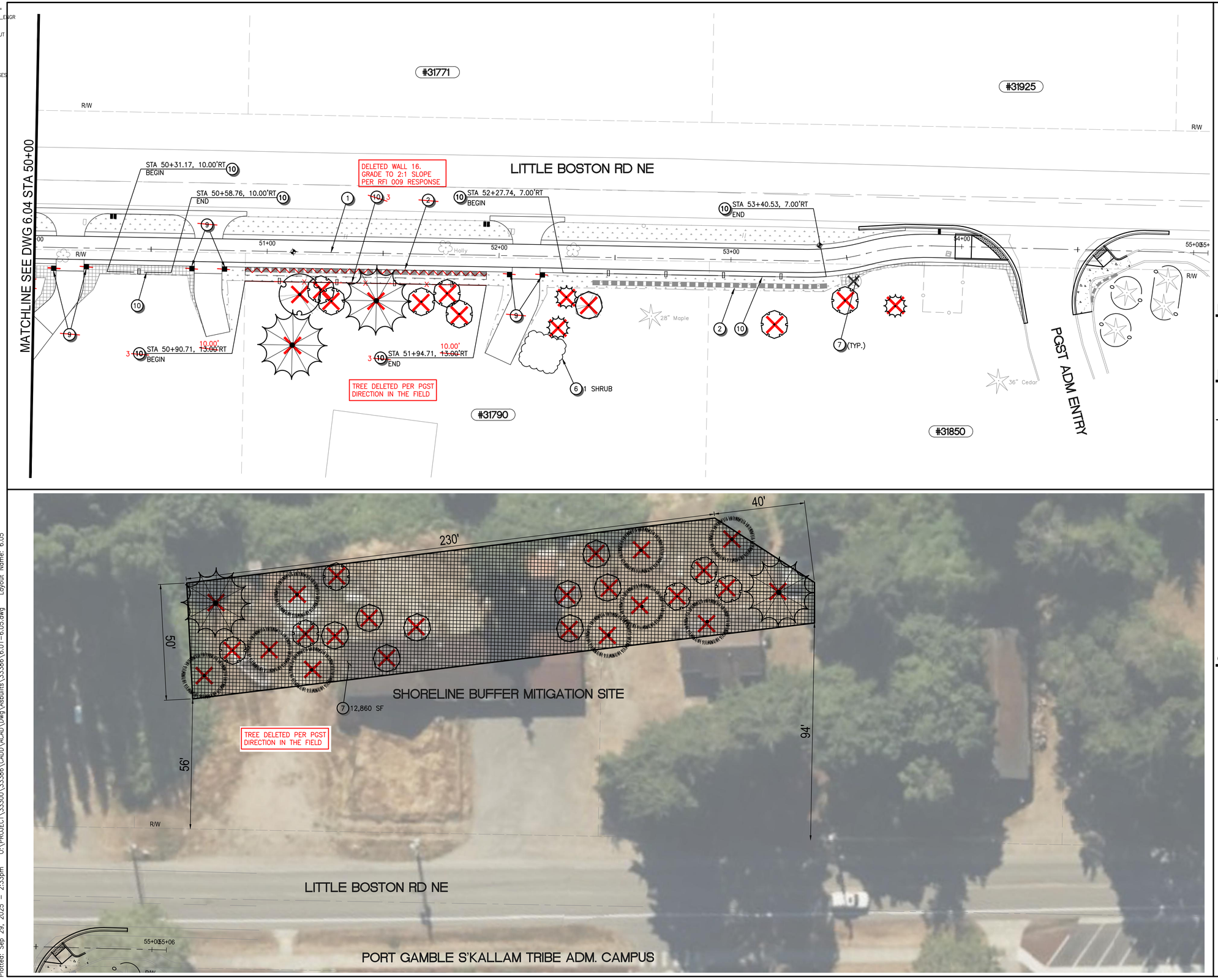

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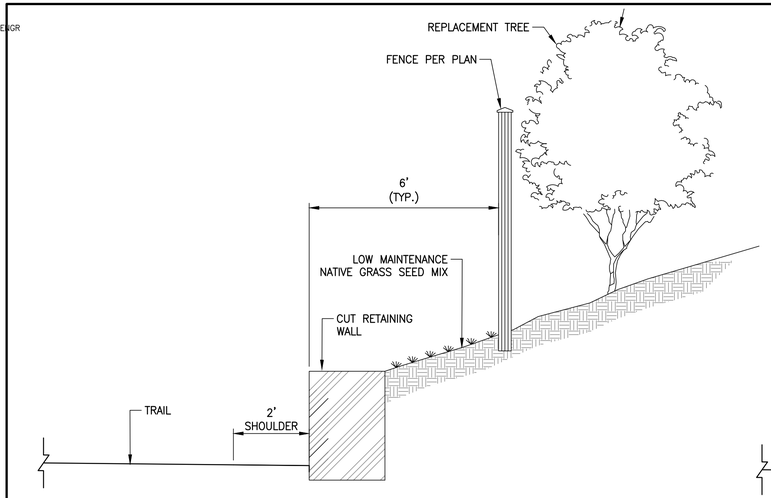
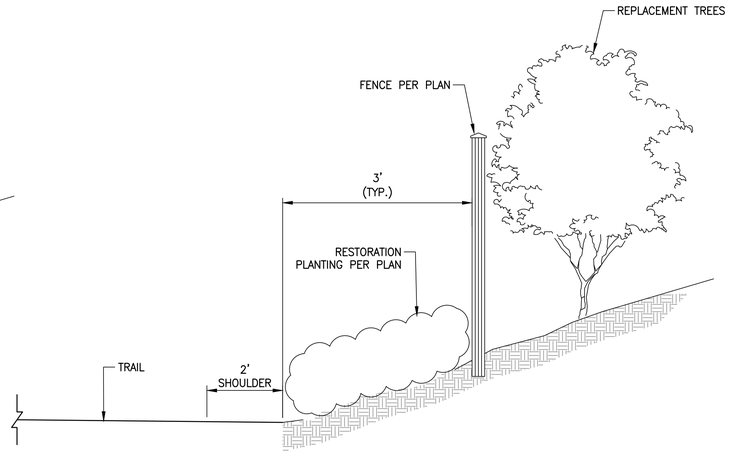


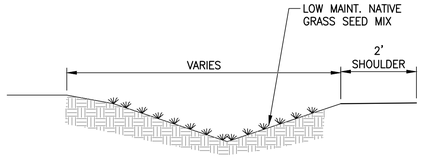
TYPICAL RESTORATION WITH CUT RETAINING WALL

NOT TO SCALE



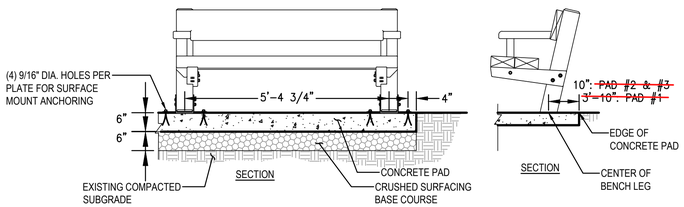
TYPICAL RESTORATION WITHOUT CUT RETAINING WALL

NOT TO SCALE



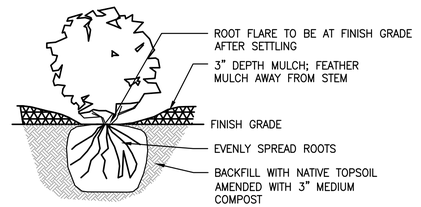
TYPICAL RESTORATION - ROADSIDE DITCH

NOT TO SCALE



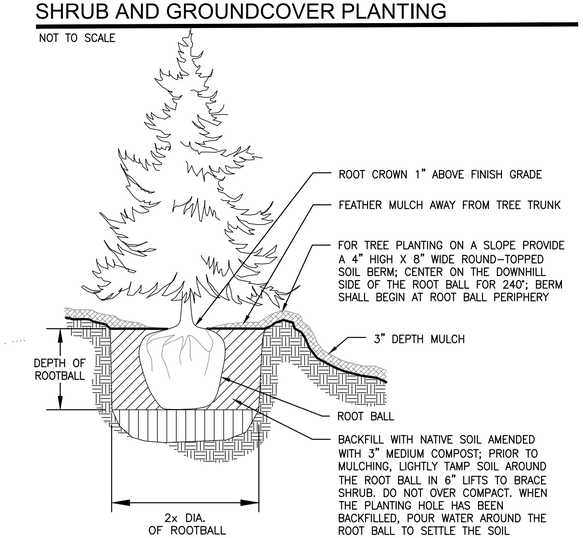
CONCRETE PAD WITH SURFACE MOUNTED 6 FT. BENCH

NOT TO SCALE



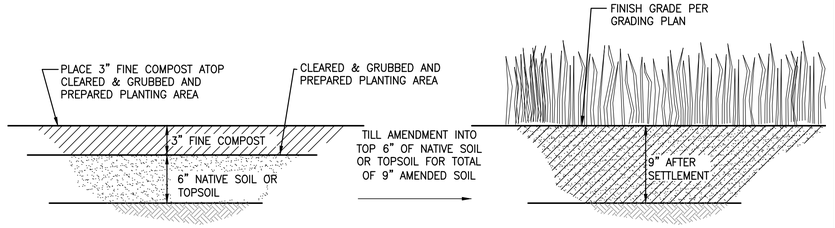
SHRUB AND GROUNDCOVER PLANTING

NOT TO SCALE



TREE PLANTING

NOT TO SCALE



SOIL PREPARATION AT NATIVE GRASS SEEDING AREAS

NOT TO SCALE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL	MIN. SIZE
TREES					
	2 ~~6~~	ABIES GRANDIS / GRAND FIR	B&B		6` HT.
	11 ~~53~~	ACER CIRCINATUM / VINE MAPLE	B&B	2" CAL.	
	1 ~~28~~	ALNUS RUBRA / RED ALDER	B&B	2" CAL.	
	2 ~~13~~	CALOCEDRUS DECURRENS / INCENSE CEDAR	B&B		6` HT.
	4 ~~7~~	PICEA SITCHENSIS / SITKA SPRUCE	B&B		6` HT.
	0 ~~9~~	PINUS CONTORTA / SHORE PINE	B&B		6` HT.
	~~3~~ ~~22~~	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	B&B		6` HT.
	7 ~~17~~	THUJA PLICATA / WESTERN RED CEDAR	B&B		6` HT.
	0 ~~11~~	TSUGA MERTENSIANA / MOUNTAIN HEMLOCK	B&B		6` HT.

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	SPACING
SHRUB AREAS				
	26,126 SF	LANDSCAPE RESTORATION		
	604	ARCTOSTAPHYLOS UVA-URSI / KINNIKINNICK	1 GAL.	5% @ 18" o.c.
	604	FRAGARIA CHILOENSIS / BEACH STRAWBERRY	4" POT	5% @ 18" o.c.
	967	GAULTHERIA SHALLON / SALAL	1 GAL.	8% @ 18" o.c.
	483	MAHONIA AQUIFOLIUM / TALL OREGON GRAPE	1 GAL.	16% @ 36" o.c.
	966	MAHONIA REPENS / CREEPING MAHONIA	1 GAL.	8% @ 18" o.c.
	180	POLYSTICHUM MUNITUM / WESTERN SWORD FERN	1 GAL.	6% @ 36" o.c.
	363	RIBES SANGUINEUM / RED FLOWERING CURRANT	1 GAL.	12% @ 36" o.c.
	363	ROSA GYMNOCARPA / BALDHIP ROSE	1 GAL.	12% @ 36" o.c.
	302	RUBUS SPECTABILIS / SALMONBERRY	1 GAL.	10% @ 36" o.c.
	302	SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY	1 GAL.	10% @ 36" o.c.
	242	VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	1 GAL.	8% @ 36" o.c.

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	FIELD2	SPACING
GROUND COVERS					
	27,918 SF	NATIVE GRASS SEED MIX			
	9,312 SF	AGROSTIS ALBA / REDTOP GRASS	SEED		30%
	9,312 SF	DESCHAMPSIA CESPITOSA / TUFTED HAIR GRASS	SEED		30%
	9,312 SF	ELYMUS GLAUCUS / BLUE WILDRYE	SEED		30%
	3,104 SF	FESTUCA RUBRA / RED FESCUE	SEED		10%

PLANTING SCHEDULE

NOT TO SCALE

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NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

STATE OF WASHINGTON
BENJAMIN JAY SCHNEIDER
No. 25871
EXP. 07/12/2026
LICENSED LANDSCAPE ARCHITECT

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SITE RESTORATION/LANDSCAPE DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.06
DRAWING NO.

SHEET 69 OF 74

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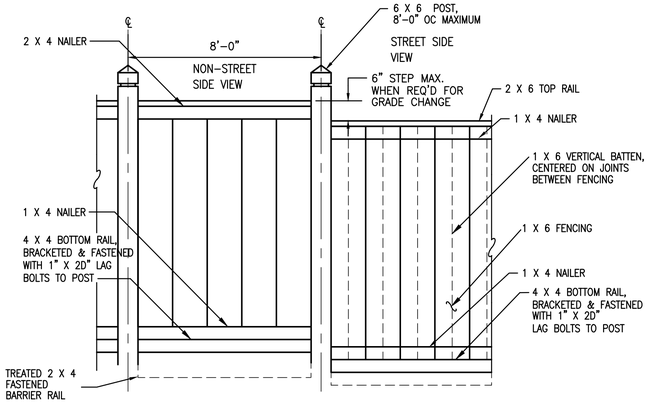
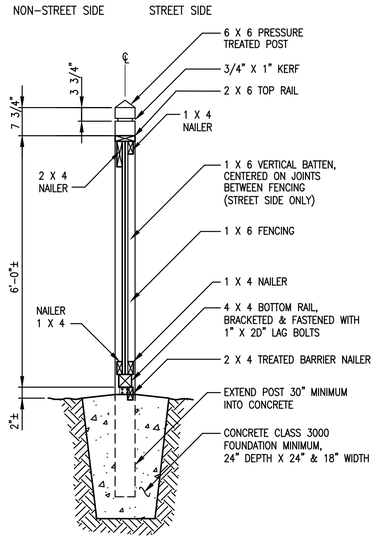
Plotted: Sep. 26, 2025 – 5:09pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\6.06-6.08.dwg Layout Name: 6.06

XREF LIST
_OTAK22X34_EXGR
post
33386V700

WOOD SOUND BARRIER FENCE NOTES

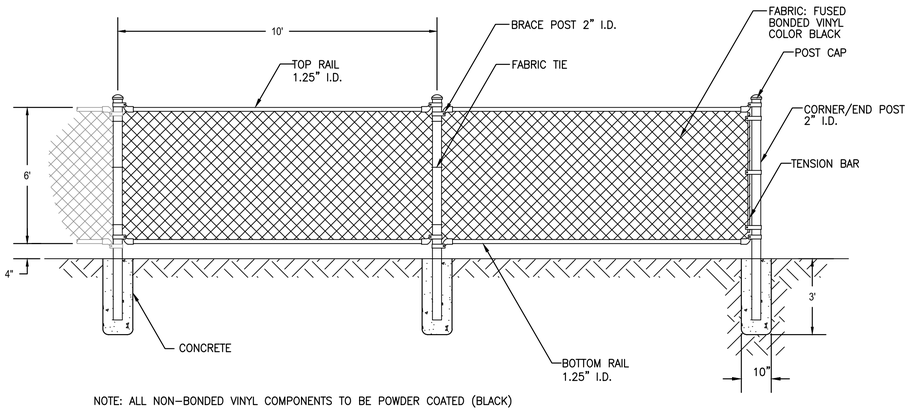
1. NAILS AND FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL. FASTENERS SHALL BEAR ON FLAT WASHERS WHERE CONTACTING WOOD SURFACES.
2. POSTS, SILLS, NAILERS, BASE AND RAILS TO BE PRESSURE TREATED DOUGLAS FIR, S4S NUMBER 1 STRUCTURAL. PRESSURE TREATMENT TO BE "CHEMONITE" OR EQUAL.
3. FENCE BOARDS TO BE TIGHT KNOT WESTERN CEDAR. CAP AND 1x6 BATTENS TO BE TIGHT KNOT WESTERN RED CEDAR.
4. 1x6 BATTENS TO BE CENTERED ON FENCING JOINTS AND NAILED AT 8" O.C. MAX. NAIL TO ONE SIDE OF FENCE JOINT ONLY, TO ALLOW MOVEMENT.





WOOD FENCE

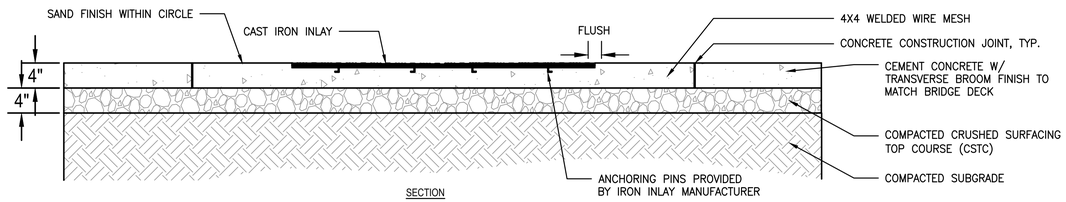
NTS



NOTE: ALL NON-BONDED VINYL COMPONENTS TO BE POWDER COATED (BLACK)

CHAIN LINK FENCE

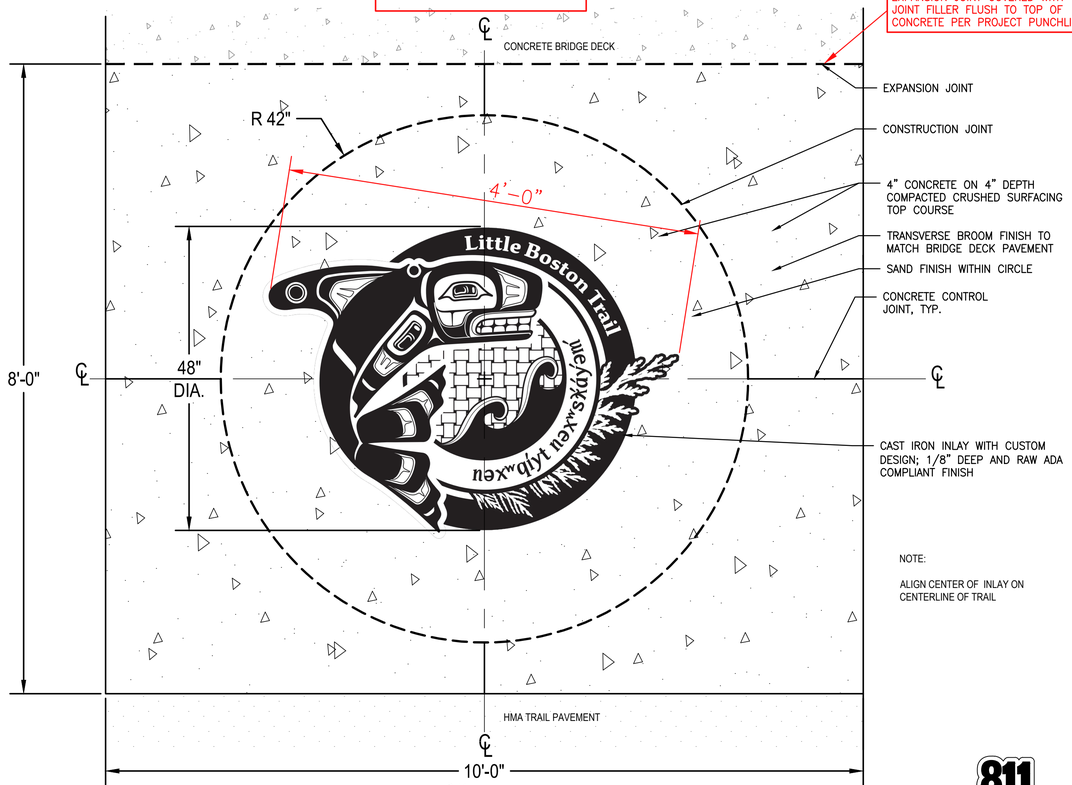
NTS



SECTION

4'-0" MAXIMUM WIDTH PER PGST EMAIL DATED 11/1/2024

EXPANSION JOINT COVERED WITH JOINT FILLER FLUSH TO TOP OF CONCRETE PER PROJECT PUNCHLIST

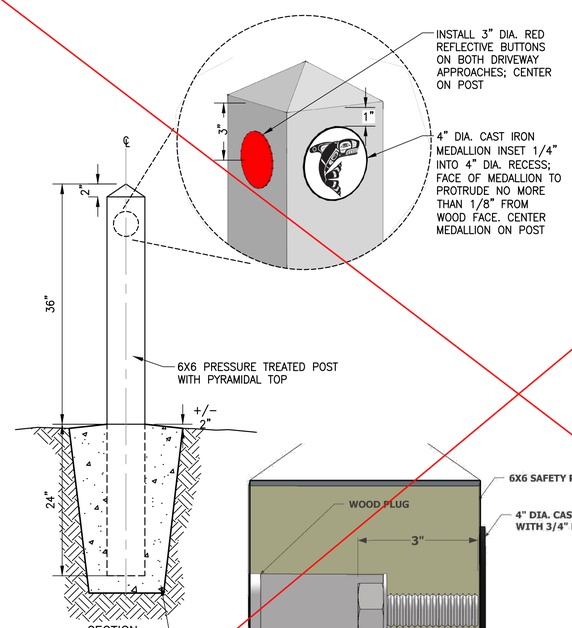


PLAN

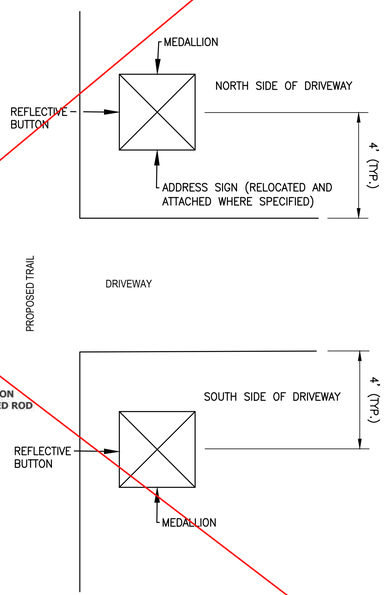
PAVEMENT INLAY DETAIL

NTS

DRIVEWAY POSTS DELETED PER PGST EMAIL DATED 5/15/2025



MEDALLION ATTACHMENT TO POST



ORIENTATION OF MEDALLION, REFLECTOR, AND ADDRESS SIGN ON SAFETY POST

DRIVEWAY SAFETY POST

NTS

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

STATE OF WASHINGTON
BENJAMIN JAY SCHNEIDER
No. 2451
EXP. 07/12/2026
LICENSED LANDSCAPE ARCHITECT

THESE "AS-BUILT" PLANS REFLECT DESIGN INFORMATION, INCLUDING PLAN REVISIONS MADE DURING CONSTRUCTION, WITH "AS-BUILT" INFORMATION PROVIDED BY THE CONTRACTOR. OTAK HAS NOT REVIEWED THE INFORMATION SUPPLIED BY THE CONTRACTOR FOR ACCURACY AND HAS NOT SURVEYED TO VERIFY THE "AS-BUILT" CONDITIONS SHOWN.

9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SITE RESTORATION/LANDSCAPE DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.07
DRAWING NO.

SHEET 70 OF 74

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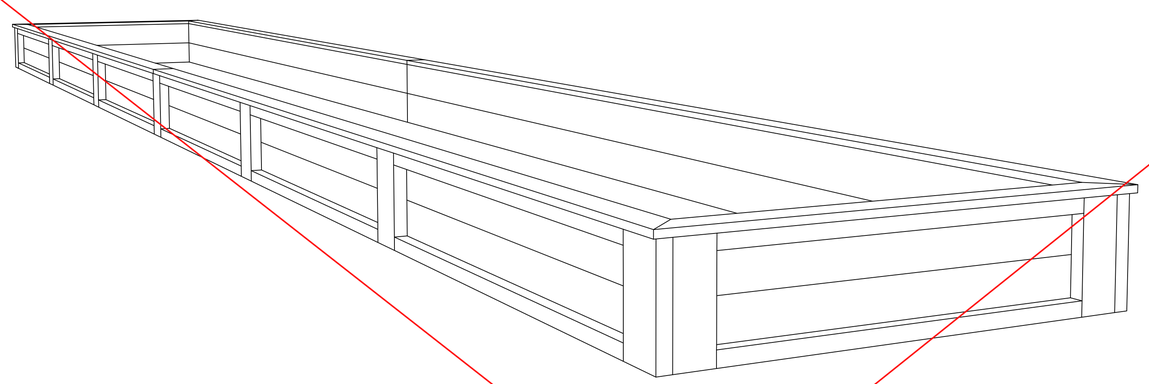
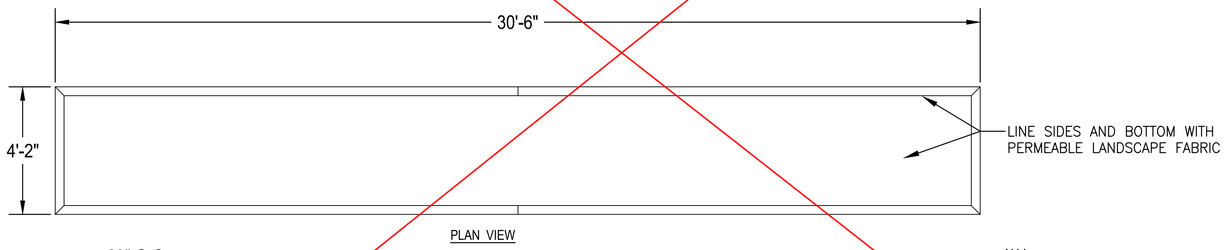
Plotted: Sep 26, 2025 – 5:09pm O:\PROJECT\33300\33386\C4DD\ACAD\Dwg\Asbuilts\33386\6.06-6.08.dwg Layout Name: 6.07

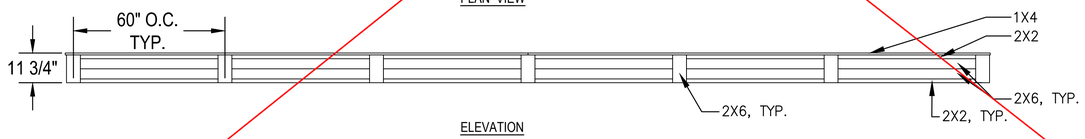
XREF LIST
_OTAK22X34_EWGR
post
33386V700



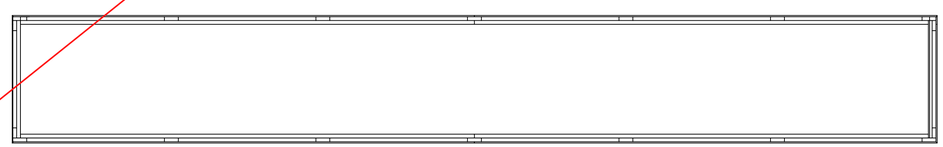
PERSPECTIVE VIEW



PLAN VIEW



ELEVATION



BOTTOM VIEW

NOTE: ALL WOOD TO BE GROUND CONTACT PRESSURE TREATED LUMBER

RAISED PLANTER DETAIL

NTS

DELETED PLANTER BOX PER PGST DIRECTION IN THE FIELD

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

STATE OF WASHINGTON
BENJAMIN JAY SCHNEIDER
No. 24611 EXP. 07/12/2026
LICENSED LANDSCAPE ARCHITECT

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
SITE RESTORATION/LANDSCAPE DETAILS

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

6.08
DRAWING NO.

SHEET 71 OF 74

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Plotted: Sep 26, 2025 – 5:09pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\6.06-6.08.dwg Layout Name: 6.08

XREF LIST
_OTAK22X34_ENGR

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FT)	155	200	250	305	–	–	–	–	–	–
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FEET MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.										NO SPECIFIED DISTANCE REQUIRED

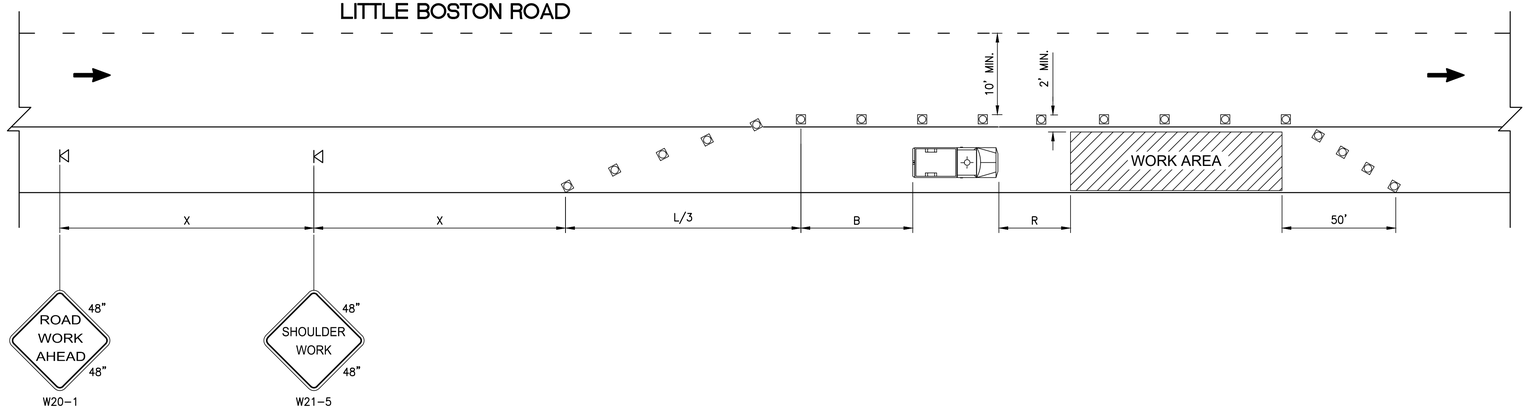
SIGN SPACING = X (1)		
RURAL HIGHWAYS	35/40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT–GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

MINIMUM SHOULDER TAPER LENGTH = L/3 (FEET)										
SHOULDER WIDTH (FT)	POSTED SPEED (MPH)									
	25	30	35	40	45	50	55	60	65	70
8	40	40	60	90	–	–	–	–	–	–
10	40	60	90	90	–	–	–	–	–	–
USE A MINIMUM 3 DEVICES TAPER FOR SHOULDER LESS THAN 8'.										

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
35/40	30	60
25/30	20	40



NOTES:
1. DEVICE SPACING FOR THE DOWNSTREAM TAPER SHALL BE 20' (FT).
2. ALL SIGNS ARE BLACK ON ORANGE.

SHOULDER CLOSURE - LOW SPEED (40 MPH OR LESS)

NOT TO SCALE

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAFFIC CONTROL PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

7.01
DRAWING NO.

SHEET 72 OF 74

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XREF LIST
_OTAK22X34_ENGR

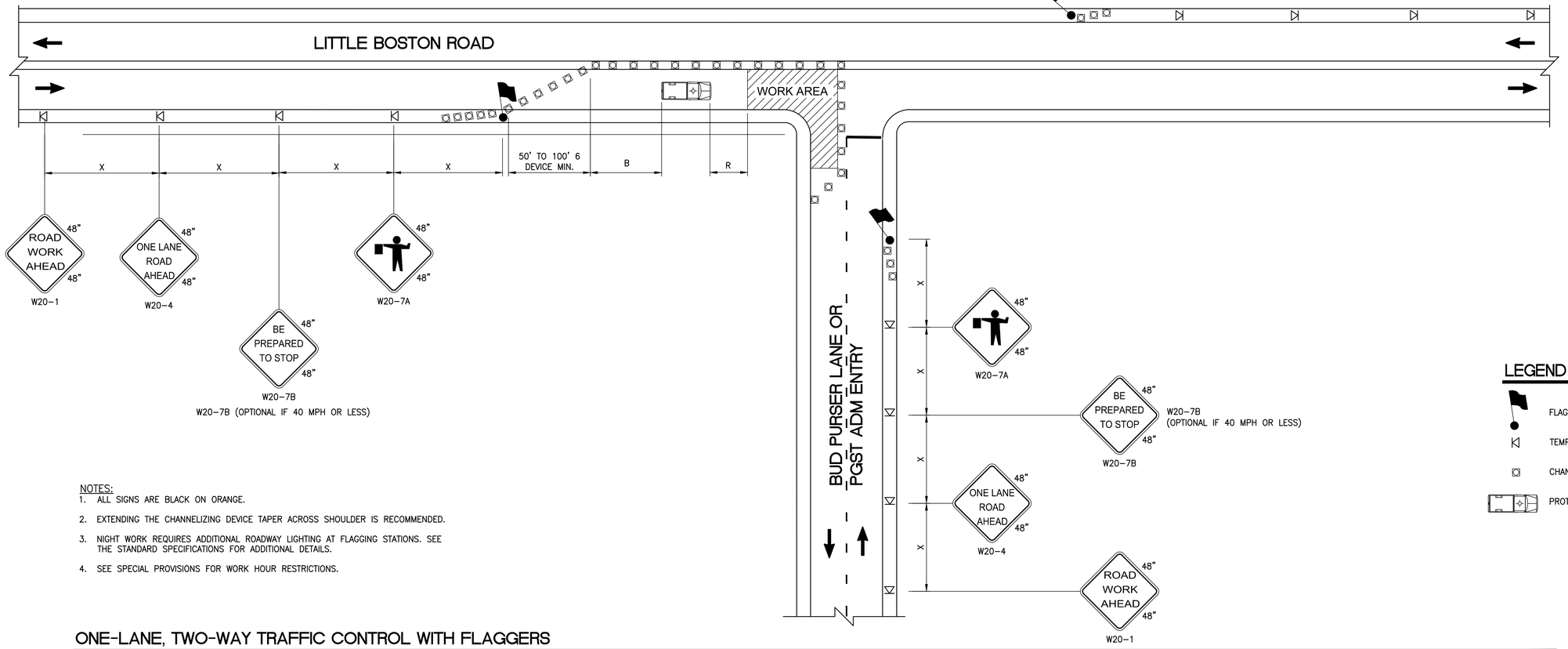
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (FT)	155	200	250	305	360	425	495	570	645	–
BUFFER VEHICLE ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MINIMUM HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.	30 FEET MIN. TO 100 FEET MAX.									
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA.	NO SPECIFIED DISTANCE REQUIRED									

SIGN SPACING = X (1)		
RURAL HIGHWAYS	60/65 MPH	800'±
RURAL ROADS	45/55 MPH	500'±
RURAL ROADS & URBAN ARTERIALS	35/40 MPH	350'±
RURAL ROADS & URBAN ARTERIALS RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
50/65	10 TO 20	80
35/45	10 TO 20	60
25/30	10 TO 20	40



NOTES:
1. ALL SIGNS ARE BLACK ON ORANGE.
2. EXTENDING THE CHANNELIZING DEVICE TAPER ACROSS SHOULDER IS RECOMMENDED.
3. NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE THE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
4. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.

ONE-LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS

NOT TO SCALE

LEGEND

- FLAGGING STATION
- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PROTECTIVE VEHICLE

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NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

MARK D. COLE — STATE OF WASHINGTON — 29303 — REGISTERED PROFESSIONAL ENGINEER

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9/30/2025
YI HUA HO, P.E.

PORT GAMBLE S'KLALLAM TRIBE
LITTLE BOSTON ROAD PEDESTRIAN TRAIL
TRAFFIC CONTROL PLAN

TITLE

Otak
11241 Willows Road NE, Suite 200
Redmond, WA 98052
425.822.4446
www.otak.com

33386
PROJECT NUMBER

7.02
DRAWING NO.

SHEET 73 OF 74

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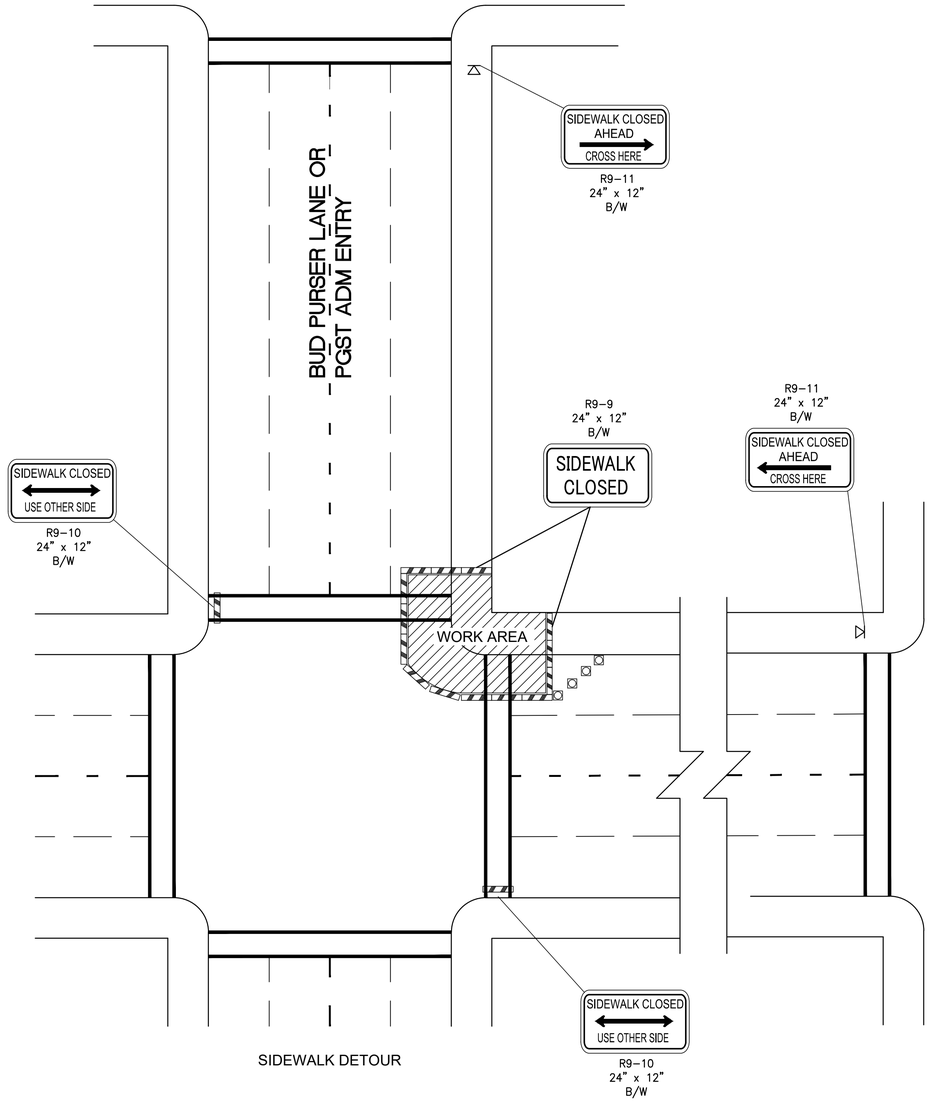
Plotted: Sep 26, 2025 – 5:10pm O:\PROJECT\33300\33386\CADD\ACAD\Dwg\Asbuilts\33386\7.01-7.03.dwg Layout Name: 7.02

XREF LIST
_OTAK22X34_ENGR



NOTES:
1. CONTROLS SHOWN ARE FOR PEDESTRIAN TRAFFIC ONLY.
2. A 60" PATH WIDTH SHOULD BE MAINTAINED (48" IS THE MINIMUM).
3. CONTACT AND COORDINATE IMPACTED TRANSIT AGENCIES PRIOR TO IMPLEMENTING ANY CLOSURES.
4. SEE SHEET TC-52 FOR TEMPORARY PEDESTRIAN RAMP DETAILS.
5. ADA PEDESTRIAN FACILITIES MUST BE MAINTAINED. SEE STANDARD SPECIFICATION 1-10.2(1)B.

LEGEND

- TEMPORARY SIGN LOCATION
- CHANNELIZING DEVICES
- PEDESTRIAN CHANNELIZING DEVICES
- TEMPORARY PEDESTRIAN RAMP FOR SIDEWALKS

INTERSECTION PEDESTRIAN TRAFFIC CONTROL

NOT TO SCALE

Know what's below. Call before you dig.

NO.	REVISION COMMENTS	BY	REVIEW	DATE

DESIGNER | DRAWN BY | CHECKED BY

MARK D. COLE
STATE OF WASHINGTON
29303
REGISTERED
PROFESSIONAL ENGINEER

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TITLE

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11241 Willows Road NE, Suite 200
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33386
PROJECT NUMBER

7.03
DRAWING NO.

SHEET 74 OF 74

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