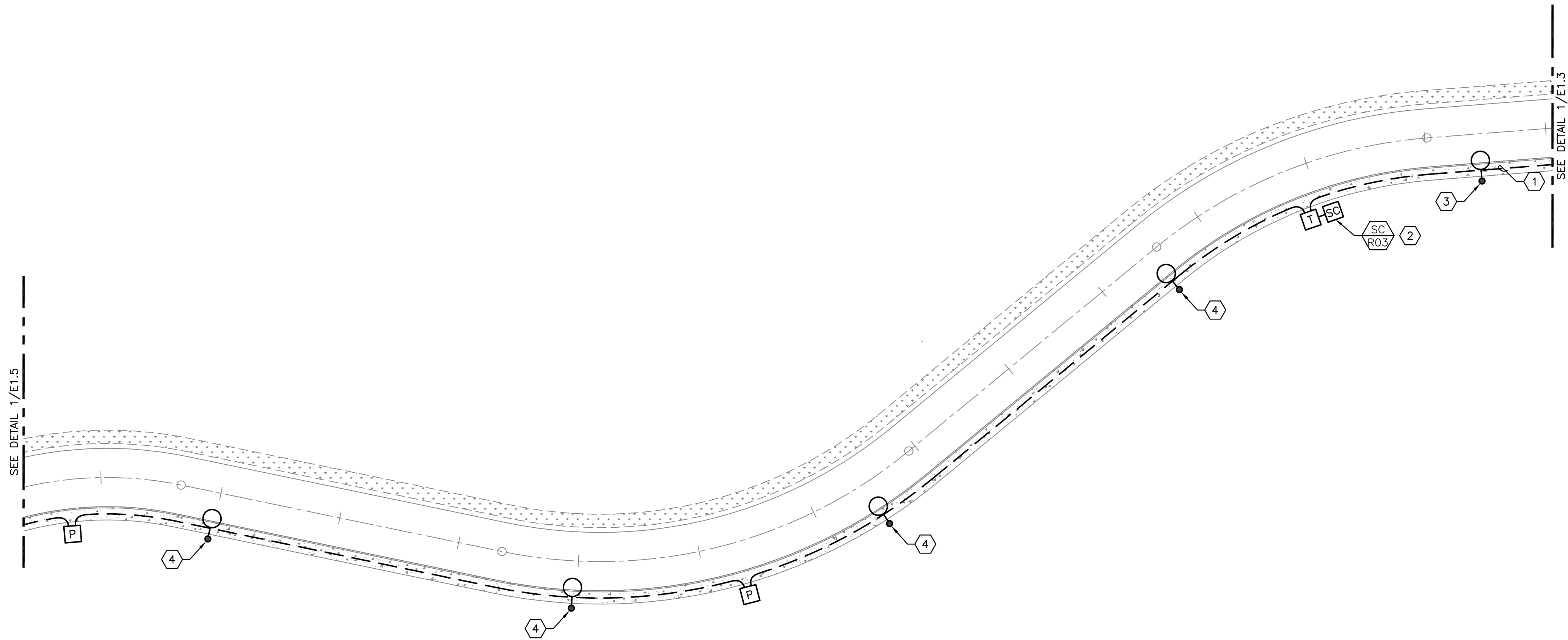


\\WP\K\TEL\RED PLAINS PROFESSIONAL\LOT_RISE LOOP & NORTH CONVEYOR_3\LUMINAIRE LOOP\E1.4.DWG 9/15/2025 4:29:05 PM hq3kshw



1
E1.4 PARTIAL SITE PLAN - POWER
SCALE: 1" = 30'-0"

30 0 30 60
SCALE IN FEET
1" = 30'-0"

GENERAL NOTES

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

NOTES THIS SHEET

- POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- SERVICE CABINET 'SC-R03' FEEDING (2) LIGHTING CIRCUITS. CONDUIT FOR LIGHTING CIRCUITS SHALL BE RAN FROM SERVICE CABINET IN TRENCH TO NEAREST LIGHT POLE ON CIRCUIT. RUN IN JOINT TRENCH WHERE POSSIBLE. FOR ALL FURTHER POLES IN CIRCUIT, CONDUIT SHALL DAISY CHAIN FROM EACH LIGHT POLE TO THE NEXT IN CIRCUIT, WITH FINAL POLE HAVING REMAINING CONDUIT FITTING CAPPED AND SEALED. SEE SHEET E1.1 FOR OTHER LIGHTS FED BY SAME SERVICE CABINET. REFER TO DETAIL 7/E0.2 FOR MORE INFORMATION ABOUT SERVICE CABINET WIRING AND CONNECTIONS.
- LUMINAIRE POWER FED BY CIRCUIT SC-R03-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- LUMINAIRE POWER FED BY CIRCUIT SC-R03-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.

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Office: (503) 292-6000
E-mail: rweng@rweng.com

Project No.: 1783.007.001 Contact: JORDAN KLOSTER

RED PLAINS
PROFESSIONAL INC.
CIVIL ENGINEERING • GIS • PLANNING • CONSTRUCTION MANAGEMENT

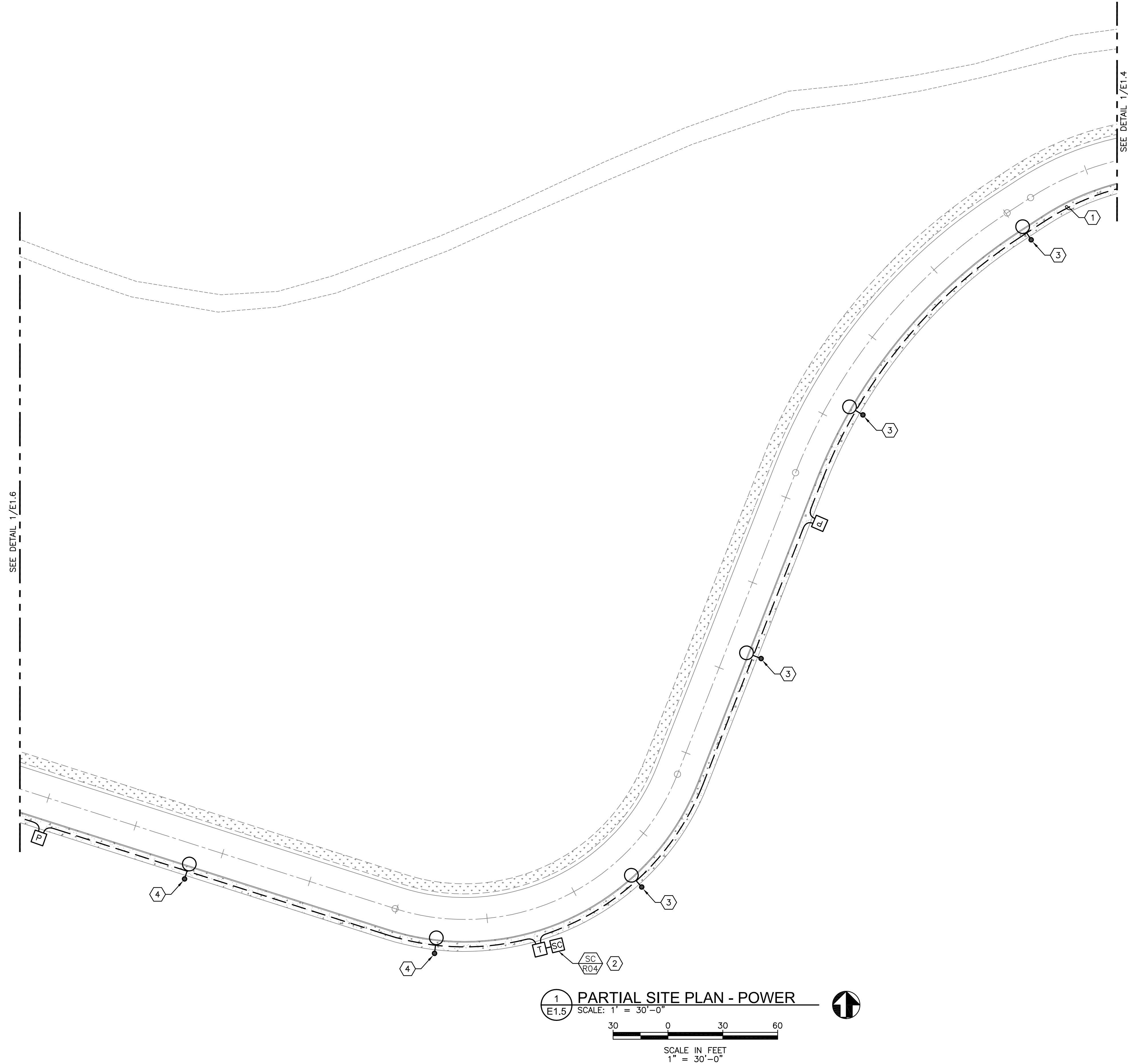
RED PLAINS PROFESSIONAL, INC.
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FAX: (360) 258-0274
www.red-plains.com

REVISIONS		DESCRIPTION	
NO.	DATE		

PROJ. 1783.007
SHT. E1.4

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

\\WFW\IT\RED PLAINS PROFESSIONAL\LOT_RAISE LOOP & NORTH COVE\01_5_LUMINAIRE LOOP\1.5.DWG 9/15/2025 4:29:09 PM b39kshw



GENERAL NOTES

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

NOTES THIS SHEET

- POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- SERVICE CABINET 'SC-R04' FEEDING (2) LIGHTING CIRCUITS. CONDUIT FOR LIGHTING CIRCUITS SHALL BE RAN FROM SERVICE CABINET IN TRENCH TO NEAREST LIGHT POLE ON CIRCUIT. RUN IN JOINT TRENCH WHERE POSSIBLE. FOR ALL FURTHER POLES IN CIRCUIT, CONDUIT SHALL DAISY CHAIN FROM EACH LIGHT POLE TO THE NEXT IN CIRCUIT, WITH FINAL POLE HAVING REMAINING CONDUIT FITTING CAPPED AND SEALED. SEE SHEET E1.1 FOR OTHER LIGHTS FED BY SAME SERVICE CABINET. REFER TO DETAIL 7/E0.2 FOR MORE INFORMATION ABOUT SERVICE CABINET WIRING AND CONNECTIONS.
- LUMINAIRE POWER FED BY CIRCUIT SC-R04-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- LUMINAIRE POWER FED BY CIRCUIT SC-R04-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.

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Office: (503) 292-6000
E-mail: rweng@rweng.com

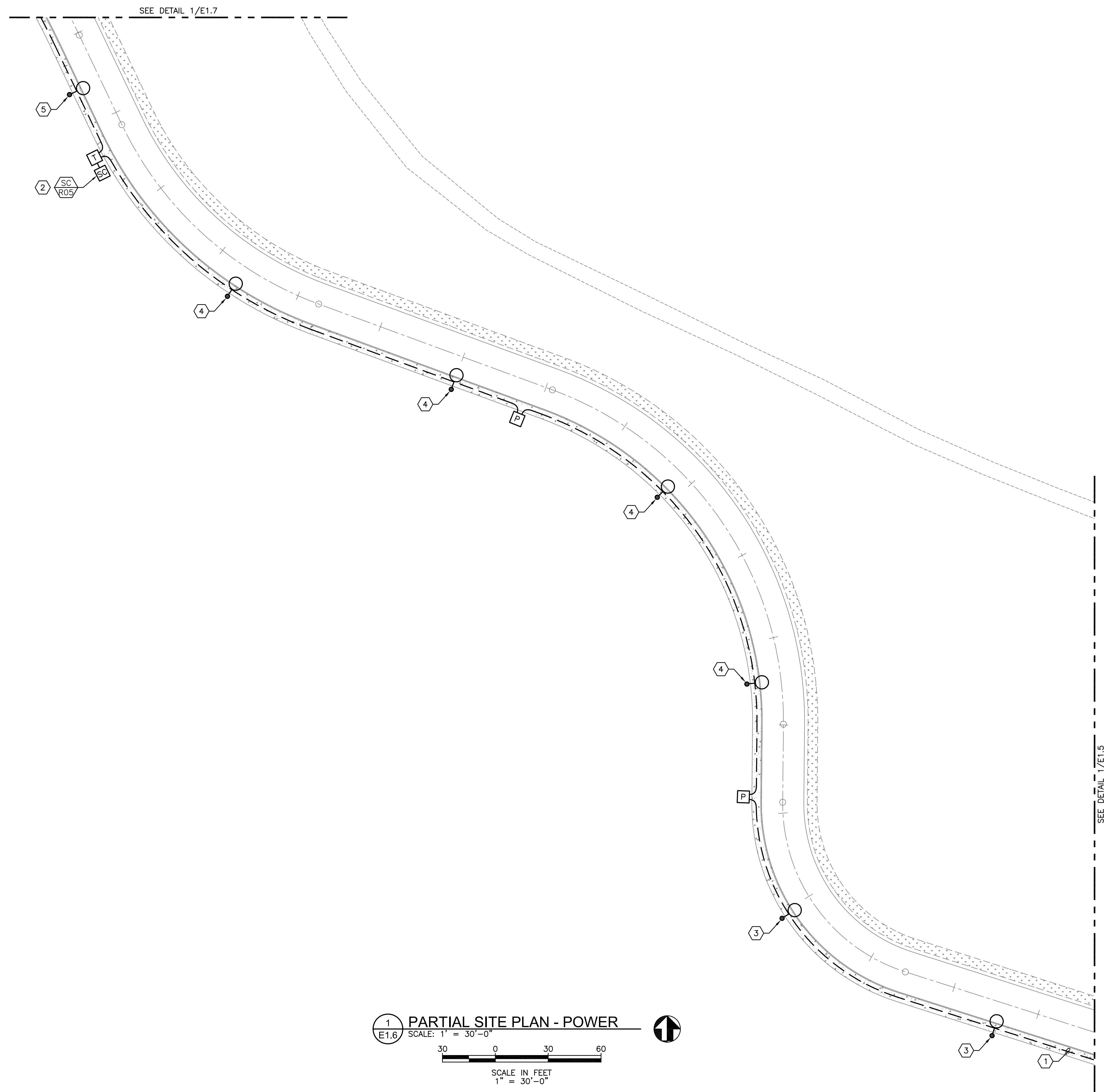


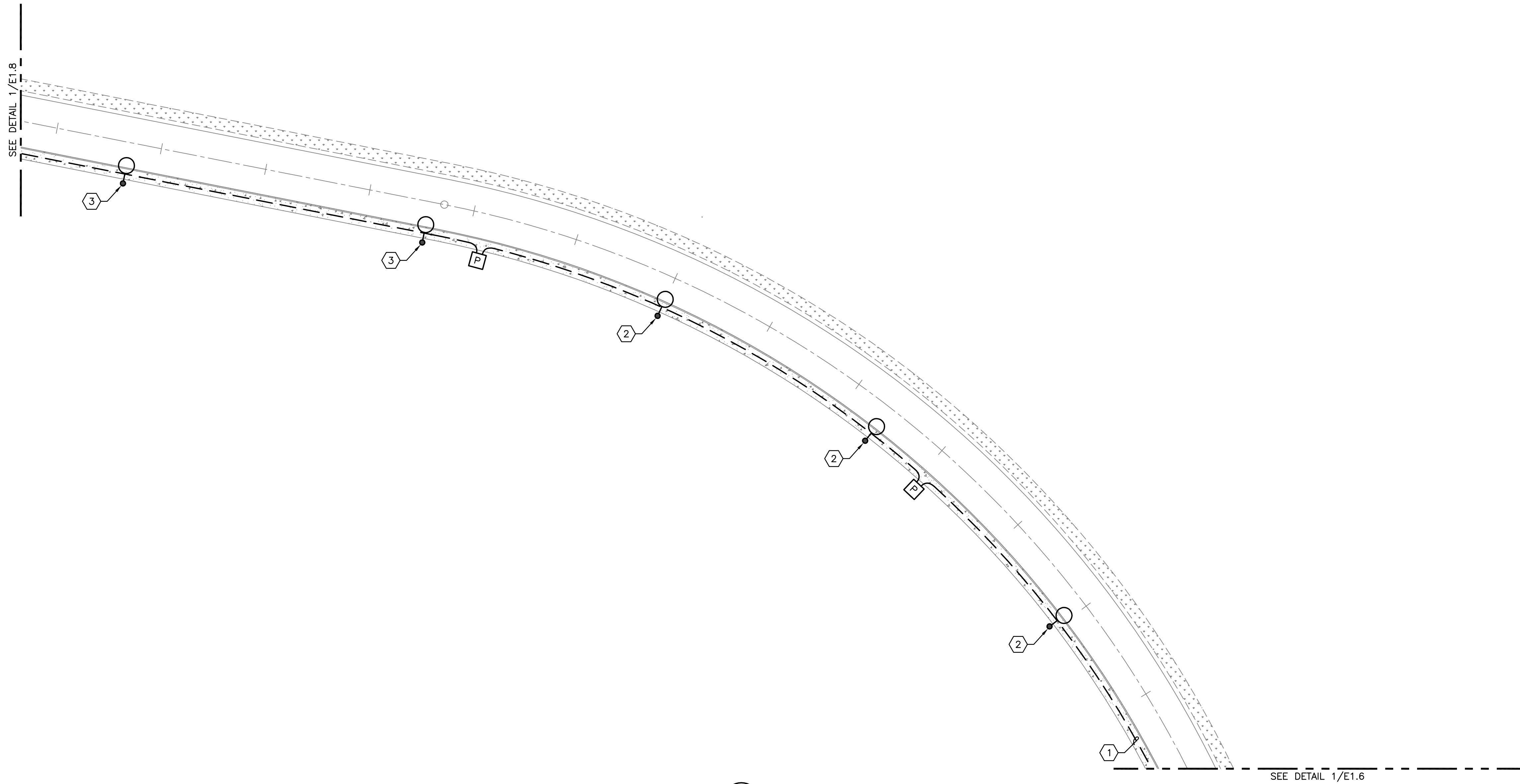
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REVISIONS		DESCRIPTION	
NO.	DATE		

PROJ. 1783.007
SHT. E1.5

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



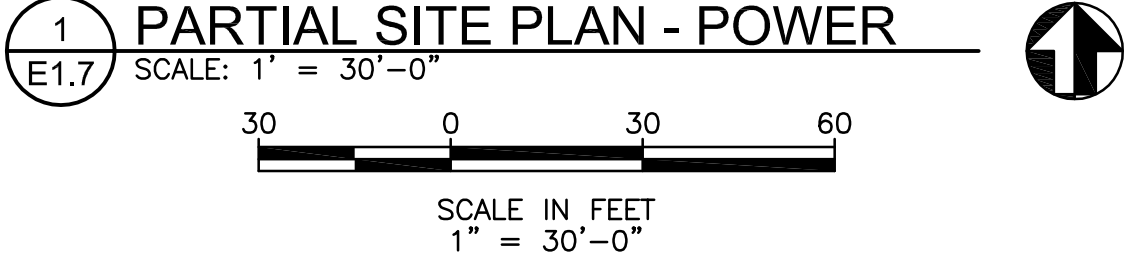


GENERAL NOTES

- A. SEE DRAWING E0.1 AND E0.2 FOR OVERALL GENERAL NOTES, SYMBOL LEGENDS, DETAILS, AND SHEET INDEX.
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- E. ALL LIGHTING POLES HAVE A STREET LIGHTING PULL BOX APPROXIMATELY 3- FEET AWAY FROM POLE BASE FOR CONDUIT AND CABLE CONNECTIONS. SEE DETAIL 1/E0.2 FOR PULL BOX INFORMATION.

NOTES THIS SHEET

- 1 POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- 2 LUMINAIRE POWER FED BY CIRCUIT SC-R05-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- 3 LUMINAIRE POWER FED BY CIRCUIT SC-R06-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.



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NO.	DATE		

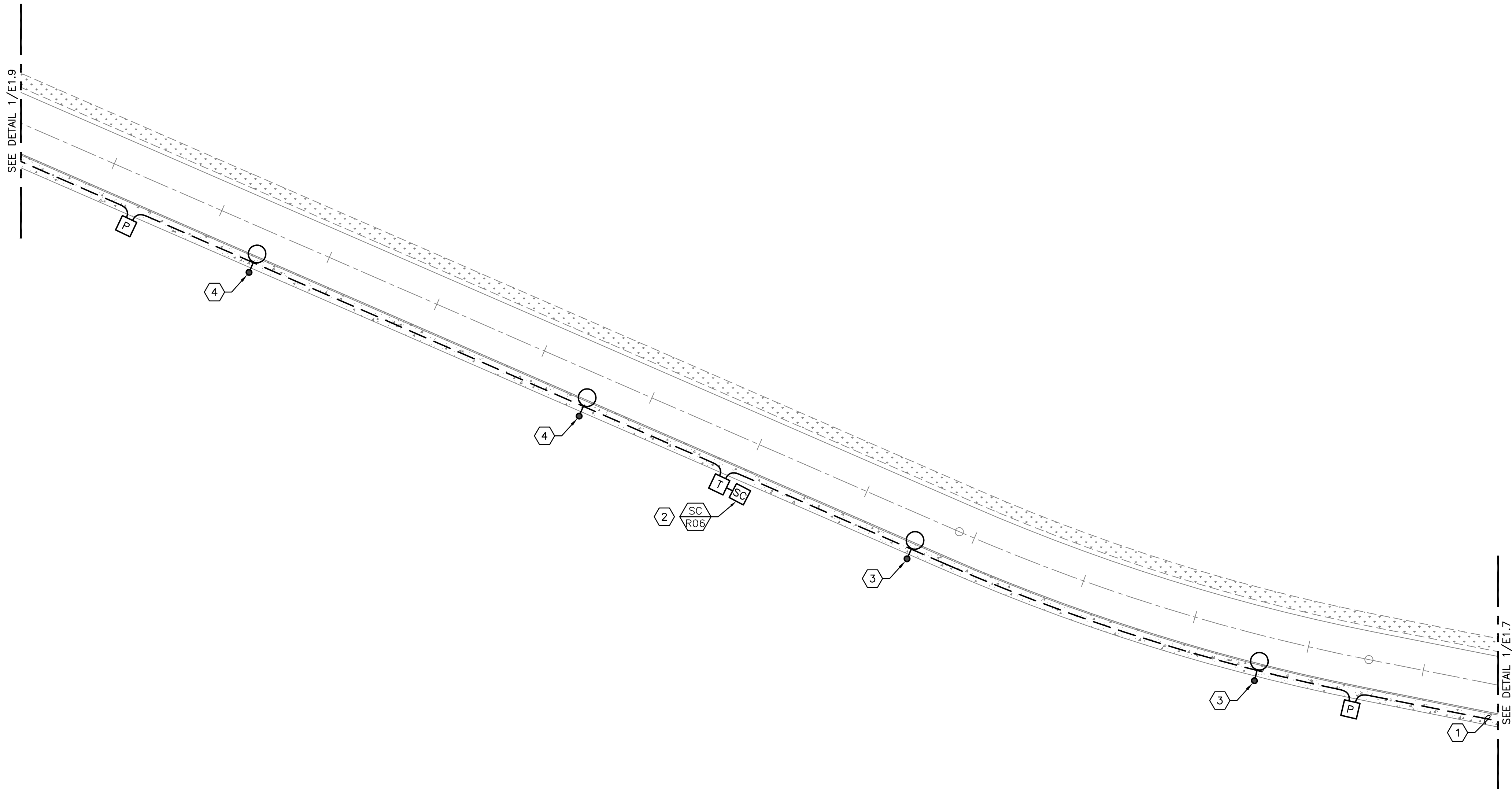
PROJ. 1783.007

SHT. E1.7

RAISE LOOP
SHOALWATER BAY TRIBE
TOKELAND, WA

PARTIAL SITE PLAN - ELECTRICAL

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1
E1.8
PARTIAL SITE PLAN - POWER
SCALE: 1" = 30'-0"
30 0 30 60
SCALE IN FEET
1" = 30'-0"

GENERAL NOTES

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

NOTES THIS SHEET

- 1 POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- 2 SERVICE CABINET 'SC-R06' FEEDING (2) LIGHTING CIRCUITS. CONDUIT FOR LIGHTING CIRCUITS SHALL BE RAN FROM SERVICE CABINET IN TRENCH TO NEAREST LIGHT POLE ON CIRCUIT. RUN IN JOINT TRENCH WHERE POSSIBLE. FOR ALL FURTHER POLES IN CIRCUIT, CONDUIT SHALL DAISY CHAIN FROM EACH LIGHT POLE TO THE NEXT IN CIRCUIT, WITH FINAL POLE HAVING REMAINING CONDUIT FITTING CAPPED AND SEALED. SEE SHEET E1.1 FOR OTHER LIGHTS FED BY SAME SERVICE CABINET. REFER TO DETAIL 7/E0.2 FOR MORE INFORMATION ABOUT SERVICE CABINET WIRING AND CONNECTIONS.
- 3 LUMINAIRE POWER FED BY CIRCUIT SC-R06-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- 4 LUMINAIRE POWER FED BY CIRCUIT SC-R06-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.

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E-mail: rweng@rweng.com
Project No.: 1783.007.001 Contact: JORDAN KLOSTER

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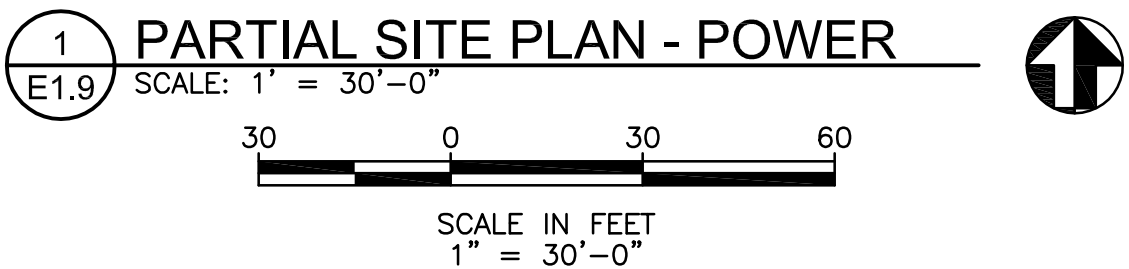
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SUITE 201
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FAX:(360) 258-0274
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NO.	DATE	REVISIONS DESCRIPTION							

PROJ. 1783.007

SHT. E1.8

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



- A. SEE DRAWING E0.1 AND E0.2 FOR OVERALL GENERAL NOTES, SYMBOL LEGENDS, DETAILS, AND SHEET INDEX.
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- E. ALL LIGHTING POLES HAVE A STREET LIGHTING PULL BOX APPROXIMATELY 3-FEET AWAY FROM POLE BASE FOR CONDUIT AND CABLE CONNECTIONS. SEE DETAIL 1/E0.2 FOR PULL BOX INFORMATION.

- ① POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- ② LUMINAIRE POWER FED BY CIRCUIT SC-R06-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- ③ LUMINAIRE POWER FED BY CIRCUIT SC-R07-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.



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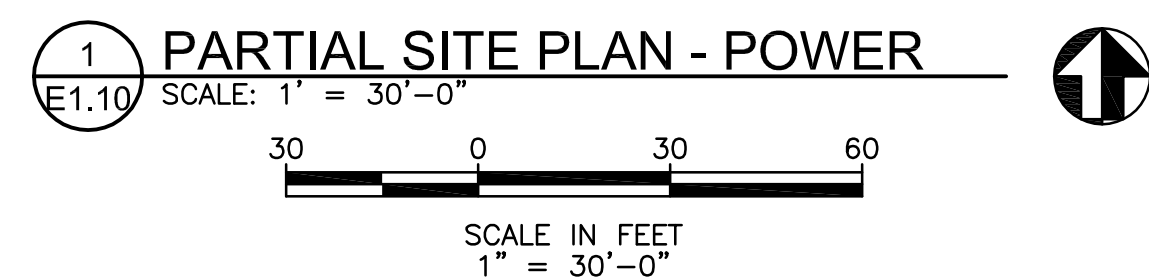
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PROJ. 1783.007

SHT.	E1.9
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- ① POWER, LIGHTING AND FIBER CONDUITS ALL RAN IN SHARED TRENCH. SEE DETAIL 5/E0.2 FOR JOINT TRENCHING DETAILS.
- ② SERVICE CABINET "SC-R07" FEEDING (2) LIGHTING CIRCUITS. CONDUIT FOR LIGHTING CIRCUITS SHALL BE RAN FROM SERVICE CABINET IN TRENCH TO NEAREST LIGHT POLE ON CIRCUIT. RUN IN JOINT TRENCH WHERE POSSIBLE. FOR ALL FURTHER POLES IN CIRCUIT, CONDUIT SHALL DAISY CHAIN FROM EACH LIGHT POLE TO THE NEXT IN CIRCUIT, WITH FINAL POLE HAVING REMAINING CONDUIT FITTING CAPPED AND SEALED. SEE SHEET E1.1 FOR OTHER LIGHTS FED BY SAME SERVICE CABINET. REFER TO DETAIL 7/E0.2 FOR MORE INFORMATION ABOUT SERVICE CABINET WIRING AND CONNECTIONS.
- ③ LUMINAIRE POWER FED BY CIRCUIT SC-R07-1. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.
- ④ LUMINAIRE POWER FED BY CIRCUIT SC-R07-2. SEE DETAIL 7/E0.2 FOR MORE INFORMATION ON SERVICE CABINET CONNECTION. SEE DETAIL 4/E0.2 FOR POLE BASE DETAIL.



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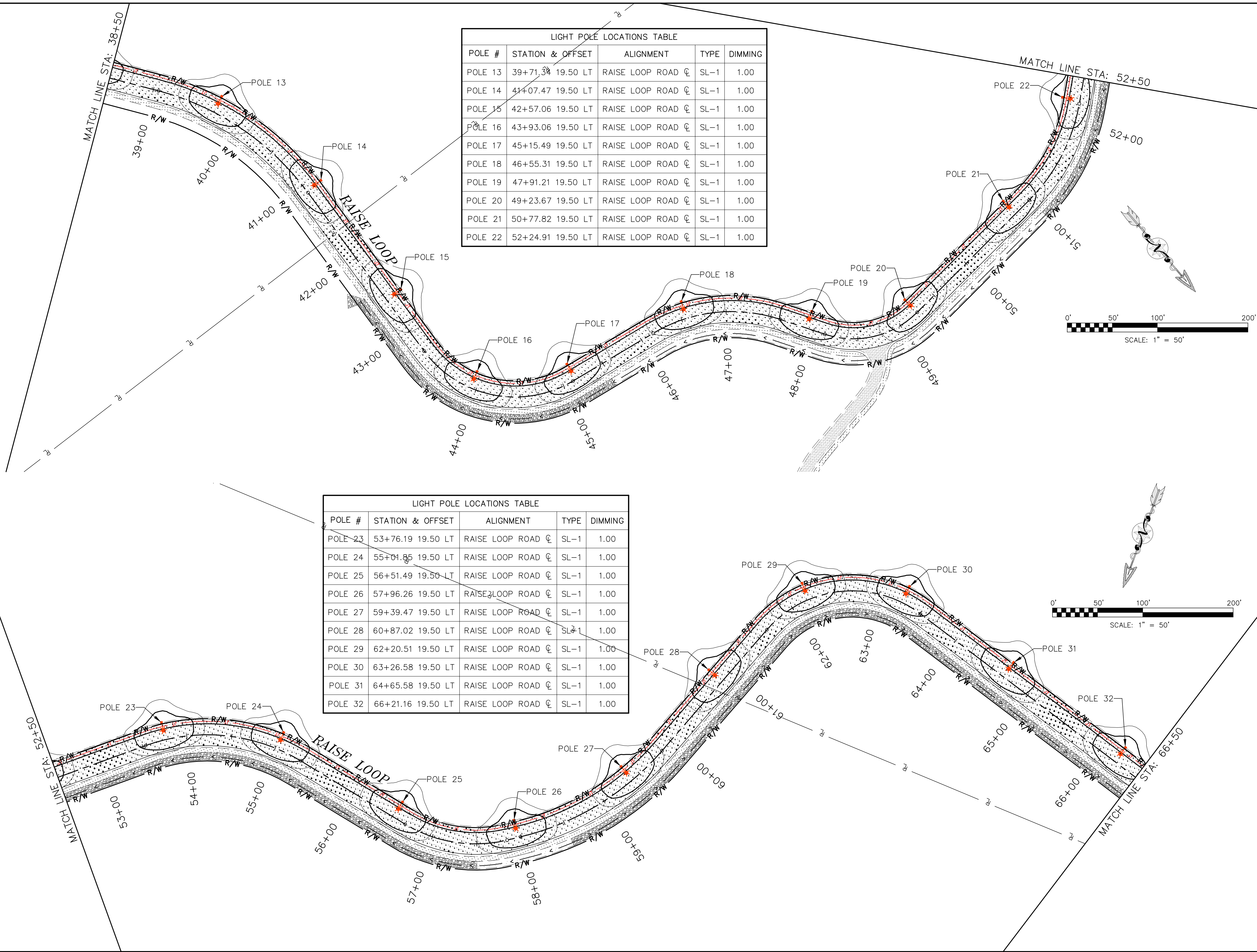
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PROJ.	1783.007
SHT.	E1.10



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PRELIMINARY ONLY

RAISE LOOP ROAD
SHOALWATER BAY TRIBE
TOKELAND, WA

STREET LIGHTING

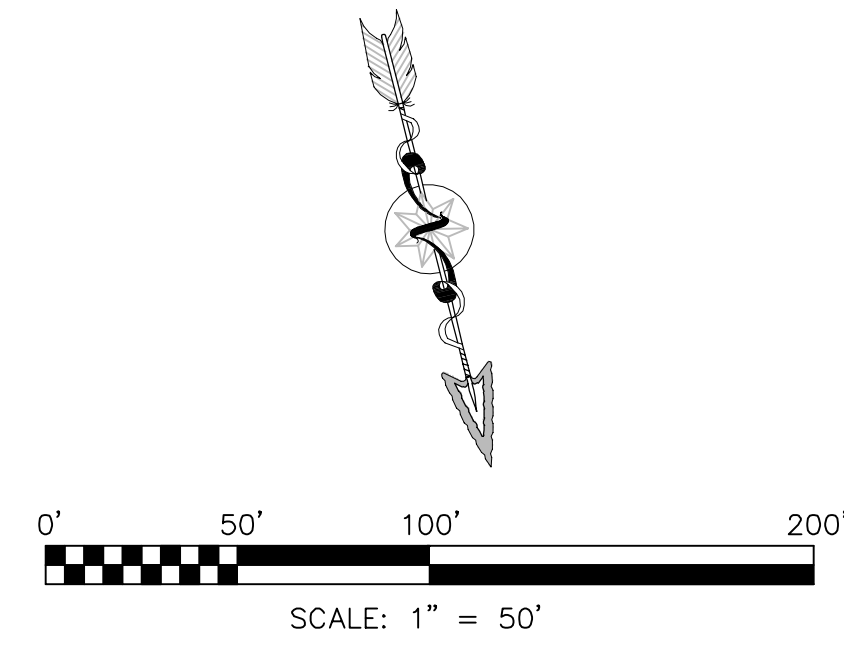
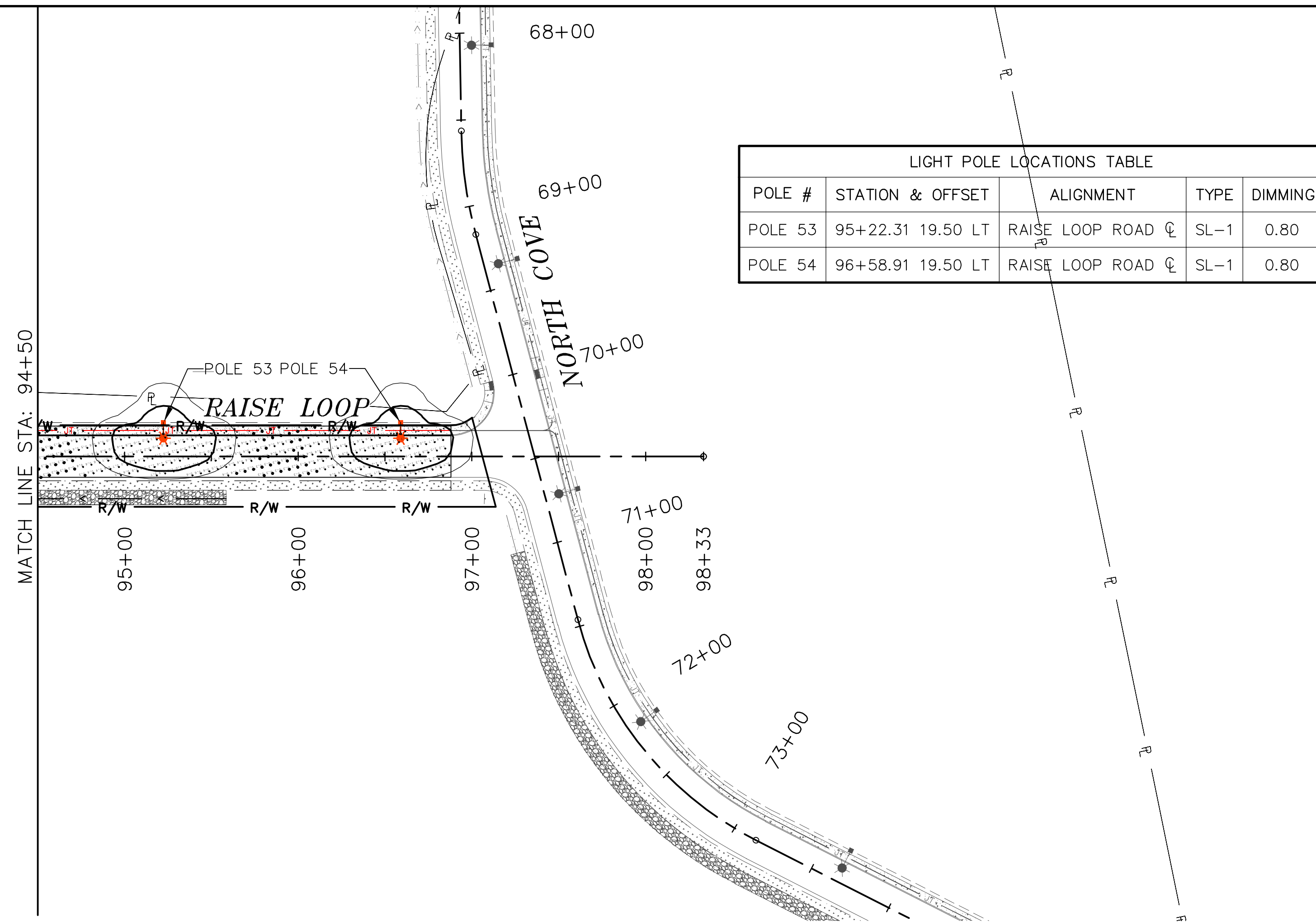
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REVISIONS	
NO.	DESCRIPTION

PROJ. 60409

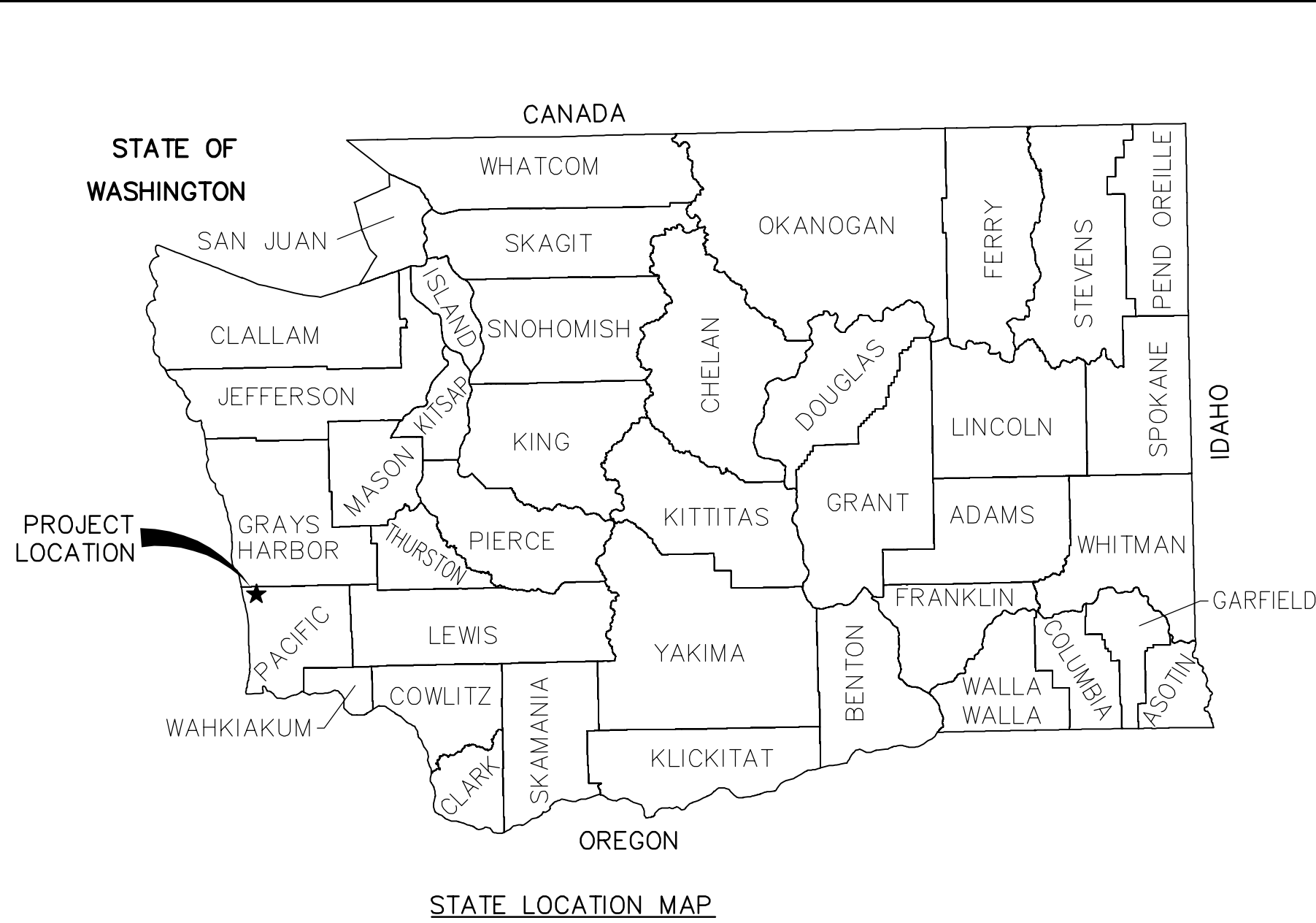
SHT. E3



LIGHT POLE LOCATIONS TABLE						
POLE #	STATION & OFFSET		ALIGNMENT		TYPE	DIMMING
POLE 53	95+22.31	19.50 LT	RAISE	LOOP ROAD	CL	0.80
POLE 54	96+58.91	19.50 LT	RAISE	LOOP ROAD	CL	0.80

[illegible]

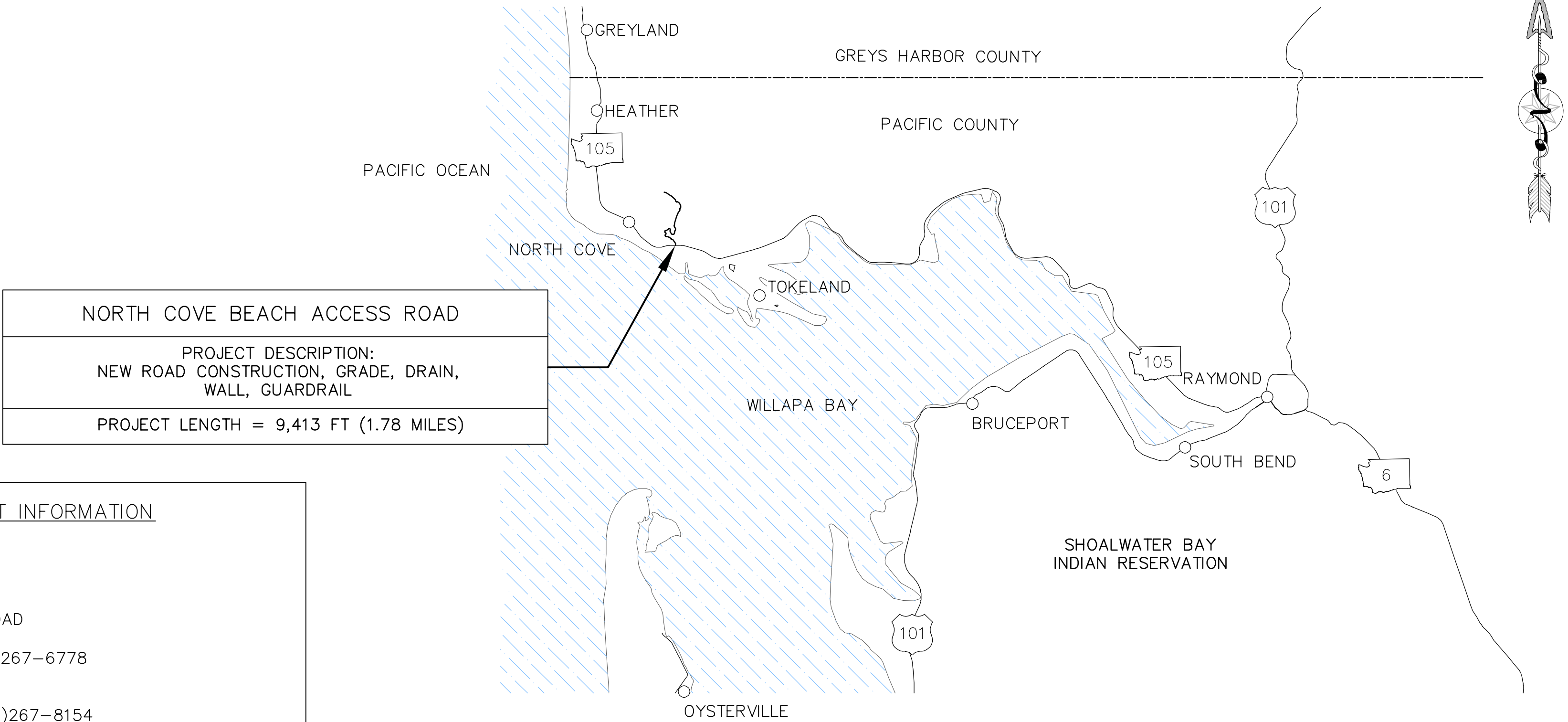
North Cove 90 Percent Plan Set



SHOALWATER BAY TRIBE
PLANS FOR PROJECT
SBIT - 2025 UTPD PHASE 2
NORTH COVE BEACH ACCESS ROAD
LOCATED IN
S4 T14N R11W WM
&
S33 T15N R11W WM
SHOALWATER BAY INDIAN RESERVATION
PACIFIC COUNTY, WASHINGTON



NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
COVER PAGE



NORTH COVE BEACH ACCESS ROAD
PROJECT DESCRIPTION:
NEW ROAD CONSTRUCTION, GRADE, DRAIN,
WALL, GUARDRAIL
PROJECT LENGTH = 9,413 FT (1.78 MILES)

PROJECT CONTACT INFORMATION

OWNER:
NAME: SHOALWATER BAY TRIBE
ADDRESS: 2373 OLD TOKELAND ROAD
TOKELAND, WA 98590
PHONE: (360)267-8211 FAX: (360)267-6778
CONTACT: JESSE DOWNS
TRIBAL ADMINISTRATOR/ CEO (360)267-8154

ENGINEER:
NAME: RED PLAINS PROFESSIONAL INC.
ADDRESS: 2103 NE 129TH STREET STE. 201
VANCOUVER, WA 98686
PHONE: (360)448-7999 FAX: (360)258-0274
CONTACT: TIM SCOTT, P.E.

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Call before you dig.
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FOR THE CONVENIENCE OF THE CONTRACTOR
ONLY. THE CONTRACTOR IS RESPONSIBLE FOR
THE PROTECTION OF ALL UTILITIES. THE
ENGINEER BEARS NO RESPONSIBILITY FOR
UTILITIES NOT SHOWN OR SHOWN
INCORRECTLY.

ROADWAY LEGEND

123	U.S. ROUTE MARKER
123	STATE ROUTE MARKER

PROJECT SHEET INDEX	
SHEET NO.	SHEET TITLE
1	COVER PAGE
2	PROJECT LOCATION MAP
3-4	GENERAL NOTES & LEGENDS
5-8	SUMMARY OF QUANTITIES
9	TYPICAL SECTIONS
10	PROJECT LAND TIES
11	PROJECT PLAN MAP
12-31	PLAN & PROFILE
32-33	WALL PLAN & PROFILE
34	ROUGH GRADE FILL PLAN AND PROFILE
35-45	UTILITIES PLAN & PROFILE
49-54	ROAD APPROACH TYPICAL SECTION & PLANS
46-48	EROSION CONTROL SHEETS
55-61	WASHINGTON STANDARD DETAILS
62-64	STORM DRAIN & UTILITY DETAILS
65	RIPRAP APRON DETAILS
X1-X17	CROSS SECTIONS
E0.1-E1.11	ELECTRICAL PLANS AND DETAILS
E2-E6	STREET LIGHTING PLAN
S1.0-S2.0	RETAINING WALL DETAILS



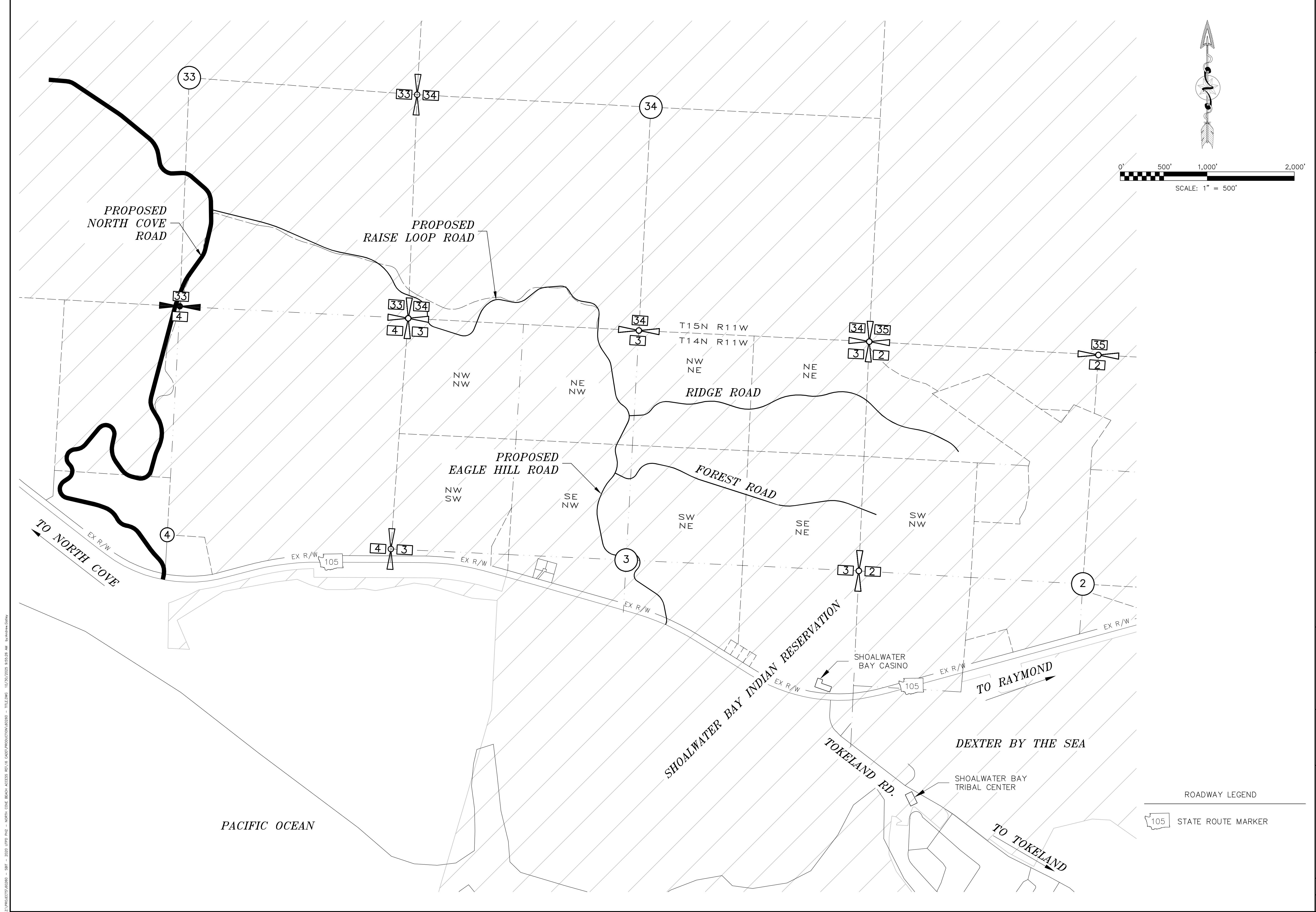
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REVISIONS		DESCRIPTION	
NO.	DATE		

PROJ. 60260
SHT. 1

90% PLANS

Z:\PROJECTS\60260 - SBIT - 2025 UTPD PHASE 2 - NORTH COVE BEACH ACCESS RD\16 CAD\PRODUCTION\60260 - TITLE.DWG 10/20/2025 10:01:13 AM By:Andrew.Gallagher



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NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
PROJECT LOCATION MAP ONLY



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FAX: (360) 258-0274
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REVISIONS		DESCRIPTION
NO.	DATE	
PROJ.		60260
SHT.		2

NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
GENERAL NOTES & LEGENDS

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[illegible]

PROJ. 60260

SHT. 3

1. PREPARATION

- F. ALL PUBLIC SANITARY SEWER MAINS SHALL BE PRESSURE TESTED PRIOR TO ACCEPTANCE BY THE C.O.R. PRESSURE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE C.O.R. PRIOR TO ROADWAY BACKFILLING, ALL SANITARY SEWER PIPES SHALL PASS A LOW PRESSURE AIR TEST. THE PRESSURE TEST SHALL BE DONE PER WSDOT STANDARD SPECIFICATIONS.
- G. SANITARY SEWER STRUCTURES SHALL BE INSTALLED AS SHOWN ON THE PLANS WITH ONLY MINOR CORRECTIONS IN LOCATION, SKEW, LENGTH AND/OR ELEVATIONS AS NEEDED TO FIT FIELD CONDITIONS AS DETERMINED BY THE C.O.R. CONTRACTOR SHALL PROVIDE RED LINES/AS-BUILTS DETAILING ALL DEVIATIONS FROM THE APPROVED PLANS AS CONSTRUCTED.
- H. THE FOLLOWING TELEVISION VIDEO INSPECTION AND REPORT SHALL BE PROVIDED TO THE QIN WASTE WATER DEPARTMENT:
- A DIGITAL VIDEO WHICH ENCOMPASSES THE LIMITS OF THE INSPECTION AREA AND INCLUDING ALL REFERENCE DATA AS DESCRIBED HEREIN.
 - A DIGITAL VIDEO REFERENCE TIME AND DATE FOR THE START OF EACH RUN SHALL ALSO BE INDICATED.
 - A WRITTEN REPORT SHALL BE PROVIDED CORRESPONDING TO THE VIDEO INSPECTION AND INCLUDING ALL REFERENCE DATA AS DESCRIBED HEREIN. THE REPORT SHALL CONSIST OF A WRITTEN NARRATIVE OF ALL DISTINCTIVE PIPE CONDITIONS, INCLUDING PONDING AREAS IN EXCESS OF ¼ INCH.

5. WATER

- E. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR DISPOSAL OF TRASH AND/OR CONSTRUCTION DEBRIS. THIS WORK SHALL BE INCIDENTAL OBLIGATIONS OF THE CONTRACT.
- F. EXISTING CULVERTS, ROADSIDE SIGNS, OR OTHER IMPROVEMENTS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- G. DURING CONSTRUCTION, ALL ROADS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES AND IMPROVEMENTS SHALL BE PROTECTED.
- H. THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS, TYPICAL SECTIONS, AND TURNAROUNDS SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.

10. REQUIRED DOCUMENTATION

- ## 11. GEOTECHNICAL

- A. CONTRACTOR SHALL COMPLY WITH RECOMMENDATIONS FOR EARTHWORK OUTLINED IN THE GEOTECHNICAL REPORT DATED APRIL 9, 2025 BY SOUTH SOUND GEOTECHNICAL CONSULTING.
- B. COORDINATION WITH THE GEOTECHNICAL ENGINEER IS CONSIDERED INCIDENTAL TO THE PROJECT AND SHALL BE INCLUDED IN OTHER ITEMS OF WORK. NO SEPARATE PAYMENT SHALL BE MADE.

12. SURVEY

- A. ALL CONSTRUCTION SURVEYING SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF WASHINGTON.
- B. ANY MONUMENTS DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN WASHINGTON STATE WITH A CFDS CERTIFICATION.

13. WORK WITHIN EXISTING RIGHT-OF-WAY:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS FROM THE COUNTY OR STATE IF WORK IS TO BE PERFORMED WITHIN THEIR RIGHT-OF-WAY PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR LICENSES FROM THE TRIBAL GOVERNMENT IF WORK IS TO BE PERFORMED WITHIN THEIR TRIBAL LAND PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- B. NO WORK SHALL BE PERFORMED OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS WITHOUT THE APPROVAL OF THE C.O.R. NO WORK SHALL BE PERFORMED OUTSIDE THE DESIGNATED RIGHT-OF-WAY OR CONSTRUCTION EASEMENTS WITHOUT PRIOR APPROVAL FROM THE SBT.

14. WELLS

- A. IF ANY EXISTING WELLS (INCLUDING TEST WELLS, WATER WELLS, OR OTHER TYPES) ARE ENCOUNTERED, DISTURBED, DAMAGED, OR EXPOSED DURING EXCAVATION OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE SBIT AND THE C.O.R. IMMEDIATELY AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, SEAL, OR ABANDON THE WELL IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- B. ACCEPTABLE METHODS OF SEALING OR REPAIR MAY INCLUDE WELDING, PATCHING, OR CONCRETING, SUBJECT TO APPROVAL BY THE CONSTRUCTION MANAGER (C.M.) AND THE C.O.R.
- C. ALL WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AND DOCUMENTED FOR FINAL APPROVAL.

15. SCHEDULE CHANGES

- A. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF SEVENTY-TWO (72) HOURS ADVANCE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER (C.M.) AND ALL AFFECTED PARTIES FOR ANY PROPOSED CHANGES TO THE APPROVED CONSTRUCTION SCHEDULE.
- B. FAILURE TO PROVIDE TIMELY NOTICE MAY RESULT IN DELAYS OR REJECTION OF THE REQUESTED SCHEDULE MODIFICATION.
- C. ALL SCHEDULE CHANGES ARE SUBJECT TO REVIEW AND APPROVAL BY THE C.O.R.

16. UTILITY POTHOLE INVESTIGATION

- A. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY CONFLICT WITH PROPOSED CONSTRUCTION PRIOR TO EXCAVATION OR INSTALLATION OF NEW FACILITIES.
- B. POTHOLE LOCATIONS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER (C.M.) AND DOCUMENTED TO VERIFY HORIZONTAL AND VERTICAL ALIGNMENTS.
- C. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PLAN LOCATIONS SHALL BE REPORTED IMMEDIATELY TO THE C.M., THE ENGINEER OF RECORD, AND THE C.O.R. FOR RESOLUTION.

2. GRADING

- A. THE CONTRACTOR SHALL DEVELOP A TESC PLAN. THE CONTRACTOR SHALL MODIFY THE TESC PLAN TO MEET THE CONTRACTORS SCHEDULE, METHOD OF CONSTRUCTION, AND TO INCLUDE OFF-SITE AREAS THAT WILL BE USED TO DIRECTLY SUPPORT CONSTRUCTION ACTIVITY SUCH AS EQUIPMENT STAGING YARDS, MATERIAL STORAGE AREAS, OR BORROW AREAS.
- B. CONTRACTOR SHALL PROTECT EXISTING VEGETATION AND FEATURES NOT DESIGNATED FOR REMOVAL.
- C. THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE C.O.R. TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK, ANY REMAINING EXCESS EXCAVATION SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE C.O.R.
- D. ASPHALT AND BASE COURSE MATERIALS REMOVED OR MILLED FROM WITHIN THE PROJECT MAY BE RE-USED WITHIN THE PROJECT, SUBJECT TO COMPLIANCE WITH THE PLANS AND SPECIFICATIONS AND WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER. MATERIAL NOT USED IN THE PROJECT SHALL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED OF BY THE C.O.R.
- E. SUBBASE SHALL BE NATIVE SOIL COMPACTED TO 95% OF ASTM D-1557, OR GRAVEL BORROW PER WSDOT 9-0314(1) OR PERMEABLE BALLAST WSDOT 9-03.9(1). PER GEOTECHNICAL REPORT DATED APRIL 9, 2025 BY SOUTH SOUND GEOTECHNICAL CONSULTING, ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND COMPACTION VERIFICATION SHALL BE CONSIDERED INCIDENTAL TO THE SUBBASE MATERIAL AND NO SEPARATE PAYMENT WILL BE MADE.
- F. SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER GRADING TO PREVENT EROSION.
- G. CHANNEL EXCAVATION, DITCH BLOCKS, DIKES, "V" DITCHES AND FURROW DITCHES WILL NOT BE MEASURED DIRECTLY FOR PAYMENT, BUT WILL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE CONTRACT.
- H. HUB STAKES SHALL BE SET AT SUBGRADE AND BASE COURSE BY A LICENSED SURVEYOR IN THE STATE OF WASHINGTON.
- I. ALL EARTHWORK QUANTITIES PROVIDED ARE ESTIMATES BASED ON NET QUANTITIES, AND DO NOT INCLUDE SHRINKAGE OR SWELL FACTORS. ALL EARTHWORK QUANTITIES PROVIDED WITHIN THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THEIR OWN QUANTITY TAKEOFFS TO BE INCLUDED IN THE CONTRACT AS PART OF THE BIDDING PROCESS.

3. DRAINAGE

- A. ALL STORM DRAINAGE INFRASTRUCTURE SHALL BE INSTALLED PER WSDOT STANDARD PLANS AND SPECIFICATIONS.
- B. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION.
- C. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT AND DEBRIS DURING CONSTRUCTION.
- D. ALL PIPE BEDDING AND BACKFILL SHALL BE COMPACTED PER WSDOT STANDARDS.

4. SANITARY SEWER

- A. SEWER CONSTRUCTION SHALL COMPLY WITH SBIT UTILITY DEPARTMENT REQUIREMENTS AND WSDOT SPECIFICATIONS.
- B. DRAINAGE STRUCTURES SHALL BE INSTALLED AS SHOWN ON THE PLANS WITH ONLY MINOR CORRECTIONS IN LOCATION, SKEW, LENGTH AND/OR ELEVATIONS AS NEEDED TO FIT FIELD CONDITIONS AS DETERMINED BY TO C.O.R. CONTRACTOR SHALL PROVIDE RED LINES/AS-BUILTS DETAILING ALL DEVIATIONS FROM THE APPROVED PLANS AS CONSTRUCTED.
- C. MAINTAIN MINIMUM COVER AND SEPARATION DISTANCES AS REQUIRED BY ALL RELEVANT CODES.
- D. EXISTING SEWER SERVICES SHALL BE MAINTAINED OR REROUTED AS NECESSARY TO AVOID DISRUPTION.
- E. ALL SEWER PIPE SHALL BE HDPE SEWER PIPE CONFORMING MANUFACTURED FROM RESINS MEETING THE REQUIREMENTS OF ASTM D3350 WITH A CELL CLASSIFICATION OF 345464C AND A PLASTIC PIPE INSTITUTE (PPI) DESIGNATION OF PE 3408, UNLESS OTHERWISE NOTED. TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH WSDOT STANDARDS. MINIMUM COVER ON HDPE PIPE SHALL BE 3.0 FEET FROM THE BOTTOM OF THE PAVEMENT SECTION.

6. SURFACING

- | | | |
|----|---|---|
| A. | AGGREGATE BASE AND SUBBASE SHALL BE PLACED AND SPECIFICATIONS AND THE GEOTECHNICAL REPORT DATED | COMPACTED PER WSDOT STANDARD APRIL 9, 2025 BY SOUTH SOUND |
| | GEOTECHNICAL CONSULTING, THE CONTRACTOR SHALL BE | RESPONSIBLE FOR CONTRACTING A |
| | THIRD PARTY TO PERFORM ALL REQUIRED DENSITY | TESTING TO VERIFY COMPACTION |
| | COMPLIANCE. | |
| B. | FINISHED SURFACE SHALL BE TRUE TO LINE AND GRADE WITHIN TOLERANCES SPECIFIED BY WSDOT. | |
| C. | CONTRACTOR SHALL PROTECT ALL SURFACING FROM CONTAMINATION AND DAMAGE DURING CONSTRUCTION. | |

7. HOT MIX ASPHALT

- A. HMA SHALL BE PLACED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING A THIRD PARTY TO PERFORM ALL REQUIRED DENSITY TESTING TO VERIFY COMPACTION COMPLIANCE.
- B. PAVING SHALL NOT OCCUR DURING WET OR FREEZING CONDITIONS OR WHEN AMBIENT TEMPERATURE IS BELOW 45°F.
- C. TACK COAT SHALL BE APPLIED BETWEEN LIFTS AND TO ALL VERTICAL SURFACES.
- D. COMPACTION SHALL MEET DENSITY REQUIREMENTS AS SPECIFIED BY WSDOT.
- E. HMA SHALL BE 2 INCH MAX LIFT HEIGHT.

8. TRAFFIC

- A. TEMPORARY AND PERMANENT TRAFFIC CONTROL SHALL COMPLY WITH THE CURRENT EDITION OF THE MUTCD AND WSDOT GUIDELINES.
- B. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH WSDOT DETAILS AND THE MUTCD, AND SHALL INCLUDE THE CONTRACTOR'S CONSTRUCTION SEQUENCING PLAN FOR APPROVAL PRIOR TO BEGINNING WORK.
- C. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNING AND MAINTENANCE OF TRAFFIC DETOURS DURING CONSTRUCTION IN ACCORDANCE WITH WSDOT AND MUTCD STANDARDS AND SPECIFICATIONS.
- E. ALL SIGNS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO WSDOT STANDARDS.

9. MISCELLANEOUS

- A. A COPY OF THESE APPROVED PLANS AND APPLICABLE SPECIFICATIONS AND DETAILS SHALL BE MAINTAINED ON-SITE BY THE GENERAL CONTRACTOR AT ALL TIMES DURING CONSTRUCTION.
- B. CONTRACTOR SHALL MAINTAIN A CLEAN AND SAFE WORK SITE AT ALL TIMES.
- C. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO INSPECTION AND APPROVAL BY THE SBIT AND THE C.O.R. PRIOR TO ACCEPTANCE.
- D. ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS SHALL BE REPORTED IMMEDIATELY THE THE SBIT AND THE C.O.R.

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ABBREVIATIONS

½Δ	MIDPOINT OF CURVE
¼Δ	QUARTER POINT OF CURVE
ALIGN.	ALIGNMENT
ASPH.	ASPHALT
BCR	BEGIN CURB RETURN
BFS	BEGIN FULL SUPER
BLDG	BUILDING
BM	BENCH MARK
BNC	BEGIN NORMAL CROWN
BOV	BLOW OFF VALVE
BOW	BOTTOM FACE OF EXPOSED WALL
BW	BACK OF SIDEWALK
BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
C&G	CURB AND GUTTER
CD	CROSS DRAIN
CFEDS	CERTIFIED FEDERAL SURVEYOR
CL OR CL	CENTERLINE
CM	CONSTRUCTION MANAGER
CONC.	CONCRETE
COR OR C.O.R.	CONTRACTING OFFICER REPRESENTATIVE
CP	CONTROL POINT
CRL	CONSTRUCTION REFERENCE LINE
CTSM	CONTINGENT SUM
CY	CUBIC YARD
DTL	DETAIL
DR.	DRIVE
EA.	EACH
EBAA	EBAA IRON, INC.
ECR	END CURB RETURN
EFS	END FULL SUPER
EG	EXISTING GRADE
EL OR ELEV.	ELEVATION
EOA	EDGE OF ASPHALT
ENC	END NORMAL CROWN
EVCS	END VERTICAL CURVE STATION
EVCE	END VERTICAL CURVE ELEVATION
EX.	EXISTING
FT	FEET
FG	FINISHED GRADE
FL OR FL	FLOW LINE
GFL	GUTTER FLOW LINE ELEVATION
GHPUD	GRAYS HARBOR PUBLIC UTILITY DISTRICT
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HP	HIGH POINT
HORZ	HORIZONTAL
IE/INV	INVERT ELEVATION
LVC	LENGTH OF VERTICAL CURVE
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MTN	MOUNTAIN
N/A	NOT APPLICABLE
OFF.	OFFSET
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
RD	ROAD
RET.	RETAINING
RT	RIGHT
RTE	ROUTE
ROW OR R/W	RIGHT OF WAY
SBIT	SHOALWATER BAY INDIAN TRIBE
SEC.	SECTION
SPD	SPECIAL DITCH
STA.	STATION
STR.	STRUCTURE
SY	SQUARE YARD
TA	TOP OF ASPHALT
TBC	TOP BACK OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TEMP.	TEMPORARY
TOW	TOP OF WALL
TRANS.	TRANSITION
TYP.	TYPICAL
VERT.	VERTICAL
WP	WORK POINT

LEGEND

	250	EXISTING CONTOUR MAJOR
	240	EXISTING CONTOUR MINOR
	250	PROPOSED CONTOURS
		PROPOSED GRADE BREAK/ ROAD SHOULDER
	OHE	EXISTING OVERHEAD ELECTRIC LINE
	FO	EXISTING FIBER OPTIC LINE
	W	EXISTING WATER LINE
	W	PROPOSED WATER LINE
		PROPOSED FIRE HYDRANT
		EXISTING FIRE HYDRANT
		PROPOSED WATER VALVE
		EXISTING WATER VALVE
		PROPOSED AIR RELEASE VALVE, WATER
		PROPOSED AIR RELEASE VALVE, SANITARY
		PROPOSED SEWER VALVE
		PROPOSED SEWER CLEANOUT
		PROPOSED SEWER MANHOLE
		EXISTING SEWER MANHOLE
	SSFM	PROPOSED SANITARY SEWER (FORCE MAIN)
	EX SS	PROPOSED SANITARY SEWER (GRAVITY MAIN)
	SSFM	EXISTING SANITARY SEWER
		EXISTING SANITARY SEWER (FORCE MAIN)
	JT	PROPOSED CONDUIT TRENCH
	RL	PROPERTY LINE
	EX R/W	EXISTING RIGHT-OF-WAY
	R/W	PROPOSED RIGHT-OF-WAY
		PROPOSED EOA
		PROPOSED CURB/ SIDEWALK
		EXISTING DIRT/GRAVEL ROAD
		CONSTRUCTION CENTERLINE
		PROPOSED TOP CUT/ TOE SLOPE
	SF	TEMPORARY SILT FENCE
		WETLAND
		PROPOSED CHECK DAM
		SURVEY CONTROL POINT
		EXISTING SIGN
		PROPOSED SIGN
		PROPOSED STREET LIGHT
		EXISTING PIPE CULVERT
		PROPOSED CULVERT
		PROPOSED ASPHALT
	>	FLOWLINE DITCH
		PROPOSED CONCRETE SIDEWALK
		PROPOSED VEGETATED FILTER STRIP
		PROPOSED ROCK FOR EROSION CONTROL/DITCH LINING
		CRUSHED AGGREGATE BASE TOP COURSE
		ASPHALT CONCRETE REMOVAL
		VEGETATED FILTER STRIP
		CRUSHED AGGREGATE TOP COURSE
		PROPOSED GUARDRAIL

LEGEND CONT.

	EXISTING GUY WIRE
	EXISTING POWER POLE
	EXISTING TELEPHONE PEDESTAL
	APPROXIMATE HISTORIC LANDFILL BOUNDARY

REVISIONS		DESCRIPTION				
NO.	DATE	DESCRIPTION				

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NORTH COVE BEACH ACCESS – MAIN PROJECT					
ITEM NO.	WSDOT ITEM NO.	ITEM DESCRIPTION	NOTES	QUANTITY	UNIT
PREPARATION					
1	0001	MOBILIZATION		1	L.S.
2	0025	CLEARING AND GRUBBING	1	20.6	ACRE
3	0049S	REMOVING DRAINAGE STRUCTURE	2	3	EACH
4	0120	REMOVING ASPHALT CONC. PAVEMENT	2, 17	225	S.Y.
GRADING					
5	0310	ROADWAY EXCAVATION INCL. HAUL	3, 4, 12	245,328	C.Y.
6	0350	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	3, 4, 11	16,609	C.Y.
7	0470	EMBANKMENT COMPACTION	3, 4	204,186	C.Y.
STORM					
8	0885S	STREAMBED COBBLES 4 IN.		40	C.Y.
9	0886S	STREAMBED COBBLES 6 IN.		90	C.Y.
10	0922	ROCK FOR EROSION AND SCOUR PROTECTION CLASS A		30	C.Y.
11	0926	ROCK FOR EROSION AND SCOUR PROTECTION CLASS C		99	C.Y.
12	1085	QUARRY SPALLS		869	C.Y.
13	3017S	CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 18 IN. DIAM.	5	40	L.F.
14	3018S	CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 24 IN. DIAM.	5	178	L.F.
15	3633S	CORRUGATED HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 42 IN. DIAM.	5	137	L.F.
16	6531S	VEGETATIVE FILTER STRIP		4,607	S.Y.
SANITARY SEWER					
17	3152	TESTING SEWER PIPE		2,914	L.F.
18	3640	SEWER CLEANOUT	5	4	EACH
19	3765S	HDPE PIPE PRESSURE SANITARY SEWER MAIN 3 IN. DIAM.	5	1,867	L.F.
20	3766S	HDPE PIPE PRESSURE SANITARY SEWER MAIN 6 IN. DIAM.	5	1,047	L.F.
21	3765S	HDPE PIPE GRAVITY SANITARY SEWER LATERAL 4 IN. DIAM.	5, 6	265	L.F.
22	3767S	HDPE PIPE GRAVITY SANITARY SEWER MAIN 8 IN. DIAM.	5	951	L.F.
23	3835S	COMB. AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 1 IN.	5	1	EACH
24	6155S	GATE VALVE 3 IN.	5	5	EACH
25	6155S	GATE VALVE 6 IN.	5	7	EACH
26	7360	MANHOLE 48 IN. DIAM. TYPE	5	5	EACH
WATER LINES					
27	3835	COMB. AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 1 IN.	5	1	EACH
28	3838	BLOWOFF ASSEMBLY	5, 6	4	EACH
29	3846	HYDRANT ASSEMBLY	5, 8	4	EACH
30	3858	SERVICE CONNECTION 1 IN. DIAM.	5, 7	11	EACH
31	3935S	HDPE PIPE WATER MAIN 8 IN. DIAM	5	2,860	L.F.
32	6160	GATE VALVE 8 IN.	5	12	EACH
SURFACING & PAVEMENT					
33	5095	CRUSHED SURFACING BASE COURSE		2,489	C.Y.
34	5115	CRUSHED SURFACING TOP COURSE		26	C.Y.
35	5767	HMA CL. 1/2 IN. PG	9	3,390	TON
36	7552S	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	13	22,379	S.Y.
EROSION CONTROL & PLANTING					
37	6408	TOPSOIL TYPE B	12	13.6	ACRE
38	6488	EROSION CONTROL AND WATER POLLUTION PREVENTION	10	1	L.S.
TRAFFIC					
39	6701	CEMENT CONC. TRAFFIC CURB		2,843	L.F.
40	6712	BEAM GUARDRAIL TYPE 31 – 9 FT. LONG POST		825	L.F.
41	6719	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL		4	EACH
42	6859	PLASTIC STOP LINE		25	L.F.
43	6890	PERMANENT SIGNING	15	1	L.S.
44	6945	CONDUIT PIPE 2 IN. DIAM.	5	30,668	L.F.
45	6947	CONDUIT PIPE 3 IN. DIAM.	5	30,668	L.F.
46	6971	PROJECT TEMPORARY TRAFFIC CONTROL		1	L.S.
OTHER ITEMS					
47	7038	ROADWAY SURVEYING		1	L.S.
48	7055	CEMENT CONC. SIDEWALK		1,557	S.Y.
49	7058	CEMENT CONC. PARALLEL CURB RAMP TYPE A	16	1	EACH
50	7058	CEMENT CONC. PARALLEL CURB RAMP TYPE B	16	1	EACH
51	7535	CONSTRUCTION GEOTEXTILE FOR DITCH LINING		4,149	S.Y.
52	SP	REMOVAL OF EXISTING GRAVEL ROADWAY		3,376	S.Y.
53	SP	RETAINING WALL		8,614	S.F.
54	SP	GEOTECHNICAL INVESTIGATION AND WALL DESIGN		1	L.S.
ALTERNATES					
55	6904S	ILLUMINATION SYSTEM	14	1	L.S.

PAY ITEM NOTES:

1. CONTRACTOR TO COORDINATE REMOVAL OF EXISTING TIMBER AND SLASH PILES FROM SITE WITH C.O.R.
2. PAY ITEM TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE C.O.R.
3. ALL EARTHWORK QUANTITIES PROVIDED ARE ESTIMATES BASED ON NET QUANTITIES, AND DO NOT INCLUDE SHRINKAGE OR SWELL FACTORS. ALL EARTHWORK QUANTITIES PROVIDED WITHIN THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE THEIR OWN QUANTITY TAKEOFFS TO BE INCLUDED IN THE CONTRACT AS PART OF THE BIDDING PROCESS.
4. PRICE BID TO INCLUDE WATERING FOR DUST CONTROL.
5. STRUCTURE EXCAVATION, TRENCH EXCAVATION AND ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING GRAVEL/SAND BACKFILL FOR BEDDING MANHOLES, INLETS, AND PIPES SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE FOR THE ITEM INSTALLED.
6. BID PRICE TO INCLUDE END MARKERS.
7. BID PRICE TO INCLUDE ALL FITTINGS AND APPURTENANCES PER WATER SERVICE STUB DETAIL SHEET 62.
8. THE UNIT CONTRACT PRICE PER EACH FOR "HYDRANT ASSEMBLY" SHALL BE FULL PAY FOR ALL WORK TO FURNISH AND INSTALL FIRE HYDRANT ASSEMBLIES, INCLUDING ALL COSTS FOR AUXILIARY GATE VALVE, SHACKLES, TIE RODS, CONCRETE BLOCKS, GRAVEL, AND PAINTING REQUIRED AS SPECIFIED.

NORTH COVE BEACH ACCESS – NORTHERN ALTERNATE					
ITEM NO.	WSDOT ITEM NO.	ITEM DESCRIPTION	NOTES	QUANTITY	UNIT
PREPARATION					
1	0001	MOBILIZATION		1	L.S.
2	0025	CLEARING AND GRUBBING	1	5.0	ACRE
GRADING					
3	0310	ROADWAY EXCAVATION INCL. HAUL	3, 4, 12	52,528	C.Y.
4	0350	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	3, 4, 11	3,448	C.Y.
5	0470	EMBANKMENT COMPACTION	3, 4	48,390	C.Y.
STORM					
6	0886	STREAMBED COBBLES 6 IN.		49	C.Y.
7	0887	STREAMBED COBBLES 8 IN.		8	C.Y.
8	1085	QUARRY SPALLS		10	C.Y.
9	6531S	VEGETATIVE FILTER STRIP		1,220	S.Y.
SANITARY SEWER					
10	3152	TESTING SEWER PIPE		1,981	L.F.
11	3640	SEWER CLEANOUT	5	2	EACH
12	3765S	HDPE PIPE PRESSURE SANITARY SEWER MAIN 3 IN. DIAM.	5	51	L.F.
13	3766S	HDPE PIPE PRESSURE SANITARY SEWER MAIN 6 IN. DIAM.	5	1,930	L.F.
14	3765S	HDPE PIPE GRAVITY SANITARY SEWER LATERAL 4 IN. DIAM.	5, 6	208	L.F.
15	3767S	HDPE PIPE GRAVITY SANITARY SEWER MAIN 8 IN. DIAM.	5	1,469	L.F.
16	3835S	COMBINATION AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 1 IN.	5	0	EACH
17	6155S	GATE VALVE 3 IN.	5	2	EACH
18	6155S	GATE VALVE 6 IN.	5	5	EACH
19	7360	MANHOLE 48 IN. DIAM. TYPE	5	8	EACH
WATER LINES					
20	3838	BLOWOFF ASSEMBLY	5, 6	3	EACH
21	3846	HYDRANT ASSEMBLY	5, 8	4	EACH
22	3858	SERVICE CONNECTION 1 IN. DIAM.	5, 7	10	EACH
23	3935S	HDPE WATER MAIN 8 IN. DIAM	5	1,988	L.F.
24	6160	GATE VALVE 8 IN.	5	7	EACH
SURFACING & PAVEMENT					
25	5095	CRUSHED SURFACING BASE COURSE		806	C.Y.
26	5115	CRUSHED SURFACING TOP COURSE		78	C.Y.
27	5767	HMA CL. 1/2 IN. PG	9	856	TON
28	7552S	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	13	7,246	S.Y.
EROSION CONTROL & PLANTING					
29	6408	TOPSOIL TYPE B	12	2.1	ACRE
30	6488	EROSION CONTROL AND WATER POLLUTION PREVENTION	10	1	L.S.
TRAFFIC					
31	6701	CEMENT CONC. TRAFFIC CURB		1,925	L.F.
32	6859	PLASTIC STOP LINE		0	L.F.
33	6890	PERMANENT SIGNING	15	1	L.S.
34	6945	CONDUIT PIPE 2 IN. DIAM.	5	7,980	L.F.
35	6947	CONDUIT PIPE 3 IN. DIAM.	5	7,980	L.F.
36	6971	PROJECT TEMPORARY TRAFFIC CONTROL		1	L.S.
OTHER ITEMS					
37	7038	ROADWAY SURVEYING		1	L.S.
38	7055	CEMENT CONC. SIDEWALK		1,069	S.Y.
39	7535	CONSTRUCTION GEOTEXTILE FOR DITCH LINING		353	S.Y.
40	SP	GEOTECHNICAL INVESTIGATION AND WALL DESIGN		1	L.S.
ALTERNATES					
41	6904S	ILLUMINATION SYSTEM	14	1	L.S.

9. QUANTITY ESTIMATED AT 145.2 LB/C.F.
10. QUANTITY ESTIMATED AT 20.6 ACRES FOR THE MAIN PROJECT AND 5.0 ACRES FOR THE NORTHERN ALTERNATE. STRAW WATTLES TO BE ANCHORED WITH LIVING STAKES. LIVING STAKES SPECIES TO BE APPROVED BY THE COR. SEEDING APPLICATION SHALL BE HYDROSEED AT 120 LBS/ACRE. SEED MIXTURE BY WEIGHT SHALL BE 50% COLONIAL BENTGRASS, 40% TALL OR RED FESCUE, 10% WHITE CLOVER. THE FOLLOWING SPECIES MAY BE SUBSTITUTED OR ADDED: MEADOW OR PACIFIC FOXTAIL, TIMOTHY, OR REDTOP BENTGRASS.
11. PAY ITEM INCLUDES THE REMOVAL OF UNSUITABLE FOUNDATION MATERIAL. THE CONTRACTOR SHALL REMOVE AND DISPOSE THE UNSUITABLE FOUNDATION MATERIAL IN A MANNER APPROVED BY THE COR. ONSITE SCREENING MAYBE A VIABLE OPTION, PER CONTRACTORS DISCRETION. CONTRACTOR TO COORDINATE WITH GEOTECH FOR DETAILS.
12. TOTAL EXCAVATION INCLUDES AN ESTIMATED 16,609 CY OF TOPSOIL FOR THE MAIN PROJECT AND 3,448 CY FOR THE NORTHERN ALTERNATE. TOPSOIL IS TO BE REMOVED AND STOCKPILED AND COVERED AT A LOCATION THAT DOES NOT INTERFERE WITH CONSTRUCTION. SEE GEOTECH REPORT, PROVIDED BY SOUTH SOUND GEOTECHNICAL CONSULTING DATED APRIL 9, 2025, FOR TOPSOIL DEPTHS AND LOCATIONS.
13. TENSAR NX750 GEOGRID OR APPROVED EQUAL. SEE GEOTECH REPORT, PROVIDED BY SOUTH SOUND GEOTECHNICAL CONSULTING DATED APRIL 9, 2025.
14. ILLUMINATION SYSTEM SHALL INCLUDE ALL ITEMS TO INSTALL STREET LIGHT INCLUDING, BUT NOT LIMITED TO: LUMINARIES, 25’ STEEL HINGED POLE VALMONT DSF10 #400F200 W/ 6’ STEEL ARM VALMONT REMO 5Q011–S04 OR 10’ STEEL ARM VALMONT REMO 5Q011–S10 OR APPROVED EQUAL, BASE, FOUNDATION, WIRING AND 1” CONDUIT PIPE.
15. INCLUDES THE COST OF SIGN SUPPORT AND INSTALLATION. SIGN SUPPORT TO BE TYPE ST–1 PER DETAIL SHEET 59.
16. THE UNIT CONTRACT PRICE PER EACH FOR "CEMENT CONC. PARALLEL CURB RAMP" SHALL BE FULL PAY FOR CONSTRUCTION OF THE CURB RAMP AS SPECIFIED, INCLUDING THE CAST-IN-PLACE DETECTABLE WARNING SURFACES.
17. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS IN THE PRESENCE OF THE C.O.R. CONTRACTOR TO NOTIFY THE SBIT AND THE C.O.R. 72 HOURS IN ADVANCE OF TESTING. ALL COSTS ASSOCIATED WITH TESTING, INCLUDING LABOR, EQUIPMENT, AND COORDINATION SHALL BE CONSIDERED INCIDENTAL AND NO SEPARATE PAYMENT WILL BE MADE.

NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
TEMPORARY ONLY
SUMMARY OF QUANTITIES



RED PLAINS
PROFESSIONAL
CIVIL ENGINEERING • GIS • PLANNING • CONSTRUCTION MANAGEMENT

RED PLAINS PROFESSIONAL, INC.
2103 NE 129TH STREET
SUITE 201
VANCOUVER, WA 98666
TEL: (360) 448-7999
FAX: (360) 258-0274
www.red-plains.com

REVISIONS		DESCRIPTION				
NO.	DATE					

PROJ. 60260

SHT. 5

STORM

0885 STREAMBED COBBLES 4-INCH (C.Y.)					
DESCRIPTION	BEGIN STA	END STA	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
DA-3 DITCH	01+84	03+21	1,159	0.33	14
TOTAL QUANTITY					14

0886 STREAMBED COBBLES 6-INCH (C.Y.)					
DESCRIPTION	BEGIN STA	END STA	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
DA-6 DITCH	64+15	66+75	2,227	0.50	41
DA-7 DITCH	71+00	74+00	2,639	0.50	49
TOTAL QUANTITY					90

0922 ROCK FOR EROSION AND SCOUR PROTECTION CLASS A (C.Y.)			
DESCRIPTION	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
DA-1 OUTFALL	165	3	18
DA-6 OUTFALL	102	3	11
TOTAL QUANTITY			30

0926 ROCK FOR EROSION AND SCOUR PROTECTION CLASS C (C.Y.)			
DESCRIPTION	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
DA-4 OUTFALL	444	6	99
TOTAL QUANTITY			99

1085 QUARRY SPALLS (C.Y.)			
DESCRIPTION	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
DITCH			
DA-4A DITCH	14,934	0.75	415
DA-4B DITCH	5,360	0.75	149
DA-5 DITCH	9,706	0.75	270
RIPRAP APRON			
DA-2 OUTFALL	165	1.50	10
DA-3 OUTFALL	165	1.50	10
DA-5 OUTFALL	102	1.50	6
DA-7 OUTFALL	165	1.50	10
TOTAL QUANTITY			36

3017S CORRUGATED HDPE PIPE 18-INCH DIAM. (L.F.)			
ROAD	DESCRIPTION	STA	QUANTITY (L.F.)
NORTH COVE RD	SD1	63+95	40
TOTAL QUANTITY			40

3018S CORRUGATED HDPE PIPE 24-INCH DIAM. (L.F.)			
ROAD	DESCRIPTION	STA	QUANTITY (L.F.)
NORTH COVE RD	CD1	01+29	70
NORTH COVE RD	CD2	18+75	58
NORTH COVE RD	CD3	21+10	50
TOTAL QUANTITY			178

3633S CORRUGATED HDPE PIPE 42-INCH DIAM. (L.F.)			
ROAD	DESCRIPTION	STA	QUANTITY (L.F.)
NORTH COVE RD	CD4	29+07	137
TOTAL QUANTITY			137

6531S SPECIAL SOIL MIX — VEGETATIVE FILTER STRIP (S.Y.)			
ROAD	BEGIN STA	END STA	QUANTITY (S.Y.)
NORTH COVE RD	00+94	63+75	3,845
APPROACH A	01+84	03+17	61
NORTH COVE RD	64+10	70+01	365
NORTH COVE RD	70+50	75+37	336
TOTAL QUANTITY			4,607

SANITARY SEWER

3640 SANITARY SEWER CLEANOUTS 3-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	2
TOTAL QUANTITY	2

3640 SANITARY SEWER CLEANOUTS 6-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	2
TOTAL QUANTITY	2

3765S HDPE PIPE PRESSURE SANITARY SEWER MAIN 3-INCH (L.F.)				
ROAD	START STATION	END STATION	3 IN. DIAM (L.F.)	REMARKS
NORTH COVE RD	48+01	66+17	1,867	ASSUMED PIPE DIAMETER, ACTUAL DIAMETER MAY VARY
TOTAL QUANTITY			1,867	

3766S HDPE PIPE PRESSURE SANITARY SEWER MAIN 6-INCH (L.F.)				
ROAD	START STATION	END STATION	6 IN. DIAM (L.F.)	REMARKS
NORTH COVE RD	66+17	75+75	1,047	ASSUMED PIPE DIAMETER, ACTUAL DIAMETER MAY VARY
TOTAL QUANTITY			1,047	

3835 COMB. AIR RELEASE 1-IN (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	1
TOTAL QUANTITY	1

SP SSFM GATE VALVE 3-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	5
TOTAL QUANTITY	5

SP SSFM GATE VALVE 6-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	7
TOTAL QUANTITY	7

3767S HDPE GRAVITY SEWER LATERAL 4-INCH (L.F.)		
ROAD	STATION & SIDE	LENGTH (L.F.)
NORTH COVE RD	48+11 LT	15
NORTH COVE RD	49+02 RT	36
NORTH COVE RD	49+59 LT	15
NORTH COVE RD	50+52 RT	36
NORTH COVE RD	52+02 RT	36
NORTH COVE RD	53+01 LT	15
NORTH COVE RD	53+47 RT	36
NORTH COVE RD	54+51 LT	15
NORTH COVE RD	54+91 RT	36
NORTH COVE RD	56+01 LT	15
NORTH COVE RD	57+51 LT	15
TOTAL QUANTITY		265

3767S HDPE PIPE GRAVITY SANITARY SEWER MAIN 8-INCH (L.F.)					
ROAD	START STATION	END STATION	START STRUCTURE	END STRUCTURE	8-IN. DIAM (L.F.)
NORTH COVE RD	48+11	48+01	SSMH 1.2	SSMH 1.1	11
NORTH COVE RD	51+51	48+11	SSMH 1.3	SSMH 1.2	340
NORTH COVE RD	54+51	51+51	SSMH 1.4	SSMH 1.3	300
NORTH COVE RD	57+51	54+51	SSMH 1.5	SSMH 1.4	300
TOTAL QUANTITY					951

7360 MANHOLE 48 IN. DIAM. TYPE 1 (EACH)			
ROAD	STATION	STRUCTURE NAME	DEPTH (FT.)
NORTH COVE RD	48+01	SSMH 1.1	8
NORTH COVE RD	48+11	SSMH 1.2	8
NORTH COVE RD	51+51	SSMH 1.3	8
NORTH COVE RD	54+51	SSMH 1.4	8
NORTH COVE RD	57+51	SSMH 1.5	8
TOTAL QUANTITY			5

WATER

3835 COMB. AIR RELEASE 1-IN (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	1
TOTAL QUANTITY	1

3838 BLOWOFF ASSEMBLY (EACH)		
ROAD	STATION & SIDE	QUANTITY (EACH)
NORTH COVE RD	66+02 LT	1
NORTH COVE RD	66+02 RT	1
NORTH COVE RD	70+45 RT	1
NORTH COVE RD	75+52 RT	1
TOTAL QUANTITY		4

3846 HYDRANT ASSEMBLY (EACH)		
ROAD	STATION & SIDE	QUANTITY (EACH)
NORTH COVE RD	48+49 RT	1
NORTH COVE RD	52+46 LT	1
NORTH COVE RD	57+01 LT	1
NORTH COVE RD	66+53 LT	1
TOTAL QUANTITY		4

3858 SERVICE CONNECTION 1 IN. DIAM. (EACH)		
ROAD	STATION & SIDE	QUANTITY 1 IN. DIAM. (EACH)
NORTH COVE RD	48+59 LT	1
NORTH COVE RD	49+52 RT	1
NORTH COVE RD	50+09 LT	1
NORTH COVE RD	51+02 RT	1
NORTH COVE RD	52+52 RT	1
NORTH COVE RD	53+61 LT	1
NORTH COVE RD	54+02 RT	1
NORTH COVE RD	55+01 LT	1
NORTH COVE RD	55+52 RT	1
NORTH COVE RD	56+51 LT	1
NORTH COVE RD	58+01 LT	1
TOTAL QUANTITY		11

3935S HDPE FOR WATER MAIN 8-INCH (L.F.)				
ROAD	BEGIN STA	END STA	8 IN. DIAM. (L.F.)	
NORTH COVE RD	48+49	75+75	2,860	
TOTAL QUANTITY			2,860	

6160 GATE VALVE 8-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	12
TOTAL QUANTITY	12

GRADING & EROSION CONTROL

0310, 0350, 0470, 6408 EARTHWORK (C.Y.)				
ROAD	0310 ROADWAY EXC. INCL. HAUL (C.Y.)	0350 UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL (C.Y.)	0470 EMBANKMENT COMPACTION (C.Y.)	(+) EXCESS (-) BORROW (C.Y.)
NORTH COVE RD	245,328	16,609	204,186	24,533
TOTAL QUANTITY	245,328	16,609	204,186	24,533

6408 TOPSOIL CLASS B (ACRES)		
ROAD	AREA (S.F.)	QUANTITY (ACRES)
NORTH COVE RD	303,531	13.6
TOTAL QUANTITY		13.6

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REVISIONS		DESCRIPTION							
NO.	DATE								

5095 CRUSHED SURFACING BASE COURSE (C.Y.)					
ROAD	BEGIN STA	END STA	AREA (S.F.)	DEPTH (FT)	QUANTITY (CY)
LANES					
NORTH COVE RD	00+91	75+75	183,237	0.33	2,263
CURB & SIDEWALK					
NORTH COVE RD	47+61	75+75	15,584	0.33	193
APPROACHES					
APPROACH A	01+84	03+02	1,420	0.33	18
APPROACH B			782	0.33	10
APPROACH C	00+98	01+29	373	0.33	5
TOTAL QUANTITY					2,489

5115 CRUSHED SURFACING TOP COURSE (C.Y.)					
ROAD	BEGIN STA	END STA	AREA (S.F.)	DEPTH (FT)	QUANTITY (CY)
APPROACHES					
NORTH COVE RD	01+84	03+02	1,420	0.25	14
NORTH COVE RD		96+19	782	0.25	8
NORTH COVE RD	00+98	01+29	373	0.25	4
TOTAL QUANTITY					26

5767 HMA CL. 1/2 IN. PG 58H-22 (TON)			145.2 LB/FT^3
ROAD	AREA (S.F.)	DEPTH (FT)	QUANTITY (TON)
NORTH COVE RD	183,237	0.25	3,390
TOTAL QUANTITY			3,390

7552S CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION (S.Y.)				
ROAD	BEGIN STA	END STA	AREA (S.F.)	QUANTITY (SY)
LANES				
NORTH COVE RD	00+91	75+75	183,237	20,360
CURB & SIDEWALK				
NORTH COVE RD	47+61	75+75	15,584	1,732
APPROACHES				
APPROACH A	01+84	03+02	1,420	158
APPROACH B			782	87
APPROACH C	00+98	01+29	373	42
TOTAL QUANTITY				22,379

6701 CEMENT CONC. TRAFFIC CURB (L.F.)				
ROAD	BEGIN STA	END STA	SIDE	QUANTITY (L.F.)
NORTH COVE	47+61	75+75	LT	2,797
NORTH COVE	70+01	70+25	RT	46
TOTAL QUANTITY				2,843

6712, 6719 GUARDRAIL (VARIES)					
ROAD	DESCRIPTION	BEGIN STA	END STA	6712 BEAM GUARDRAIL TYPE 31 — 9 FT. LONG POST (L.F.)	6719 BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL (EACH)
NORTH COVE	WALL 1	30+20	33+78	369	2
NORTH COVE	WALL 2	39+31	43+80	456	2
TOTAL QUANTITY				825	4

6859 PLASTIC STOP LINE		
ROAD	STATION	LENGTH (L.F.)
NORTH COVE RD	1+17	13
RAISE LOOP RD	97+08	12
TOTAL QUANTITY		25

6890 PERMANENT SIGNING				
ROAD	SIGN TYPE	STATION	OFFSET/SIDE	SIGN COVERING (S.F.)
NORTH COVE RD	STOP (R1-1)	1+16.58	26.46 LF LT	5.18
RAISE LOOP RD	STOP (R1-1)	97+07.63	24.34 LF RT	5.18
NORTH COVE RD	STREET NAME (D3-1)	1+16.58	26.46 LF LT	3.30
RAISE LOOP RD	STREET NAME (D3-1)	97+07.63	24.34 LF RT	3.30
NORTH COVE RD	SPEED LIMIT (R2-1)	2+05.75	24.00 LF RT	5.00
TOTAL QUANTITY				22

6945 CONDUIT PIPE 2 IN. DIAM (L.F.)	
ROAD	QUANTITY (L.F.)x4
NORTH COVE RD	30,668
TOTAL QUANTITY	30,668

6947 CONDUIT PIPE 3 IN. DIAM (L.F.)	
ROAD	QUANTITY (L.F.)x4
NORTH COVE RD	30,668
TOTAL QUANTITY	30,668

7055 CEMENT CONCRETE SIDEWALK (S.Y.)					
ROAD	BEGIN STA	END STA	SIDE	WIDTH (FT)	QUANTITY (S.Y.)
NORTH COVE RD	47+61	75+75	LT	5	1,541
NORTH COVE RD	70+01	70+25	RT	5	16
TOTAL QUANTITY					1,557

7058 CEMENT CONC. PARALLEL CURB RAMP TYPE A (EACH)		
ALIGNMENT	STATION & SIDE	QUANTITY (EACH)
NORTH COVE RD	70+03 LT	1
TOTAL QUANTITY		1

7058 CEMENT CONC. PARALLEL CURB RAMP TYPE B (EACH)		
ALIGNMENT	STATION & SIDE	QUANTITY (EACH)
NORTH COVE RD	70+03 RT	1
TOTAL QUANTITY		1

7535 CONSTRUCTION GEOTEXTILE FOR DITCH LINING (SY)					
OUTFALLS					
ROAD	DESCRIPTION	STA	SIDE	AREA (S.F.)	QUANTITY (S.Y.)
NORTH COVE RD	DA-1 OUTFALL	01+29	RT	165	18
NORTH COVE RD	DA-2 OUTFALL	18+75	RT	165	18
NORTH COVE RD	DA-3 OUTFALL	21+10	RT	165	18
NORTH COVE RD	DA-4 OUTFALL	29+07	RT	444	49
NORTH COVE RD	DA-5 OUTFALL	46+05	RT	102	11
NORTH COVE RD	DA-6 OUTFALL	63+76	RT	102	11
NORTH COVE RD	DA-7 OUTFALL	74+00	RT	165	18
DITCHES					
ROAD	DESCRIPTION	BEGIN STA	END STA	AREA (S.F.)	QUANTITY (S.Y.)
APPROACH A	DA-3 DITCH	01+84	03+21	1,159	129
NORTH COVE RD	DA-4A DITCH	23+45	28+96	14,934	1,659
NORTH COVE RD	DA-4B DITCH	29+24	45+52	5,360	596
NORTH COVE RD	DA-5 DITCH	46+06	58+00	9,706	1,078
NORTH COVE RD	DA-6 DITCH	64+15	66+75	2,227	247
NORTH COVE RD	DA-7 DITCH	71+00	74+00	2,639	293
TOTAL QUANTITY					4,149

SP REMOVAL OF EXISTING GRAVEL ROADWAY (S.Y.)	
ALIGNMENT	QUANTITY (S.Y.)
NORTH COVE RD	3,376
TOTAL QUANTITY	3,376

SP RETAINING WALL (S.F.)						
ROAD	DESCRIPTION	BEGIN STA	END STA	AREA EXPOSED WALL (S.F.)	AREA EMBEDDED (ASSUMED 1.5')	QUANTITY (S.F.)
NORTH COVE RD	WALL 1	30+29	33+70	3,109	731	3,840
NORTH COVE RD	WALL 2	39+56	43+75	3,906	869	4,775
TOTAL QUANTITY						8,614

[illegible]

SANITARY SEWER

3640 SANITARY SEWER CLEANOUTS 6-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	2
TOTAL QUANTITY	2

3765S HDPE PIPE PRESSURE SANITARY SEWER MAIN 3-INCH (L.F.)				
ROAD	STATION	SIDE	3 IN. DIAM (L.F.)	REMARKS
NORTH COVE RD	78+38	LT	11	ASSUMED AVERAGE PIPE DIA. ACTUAL DIA. MAY VARY
NORTH COVE RD	92+89	RT	40	
TOTAL QUANTITY			51	

3766S HDPE PIPE PRESSURE SANITARY SEWER MAIN 6-INCH (L.F.)				
ROAD	START STATION	END STATION	6 IN. DIAM (L.F.)	REMARKS
NORTH COVE RD	75+75	95+08	1,930	ASSUMED AVERAGE PIPE DIA. ACTUAL DIA. MAY VARY
TOTAL QUANTITY			1,930	

3765S HDPE GRAVITY SEWER LATERAL 4-INCH (L.F.)		
ROAD	STATION & SIDE	LENGTH (L.F.)
NORTH COVE RD	82+86 LT	15
NORTH COVE RD	84+36 LT	15
NORTH COVE RD	85+86 LT	15
NORTH COVE RD	86+18 RT	35
NORTH COVE RD	87+49 LT	12
NORTH COVE RD	87+52 RT	38
NORTH COVE RD	88+99 LT	14
NORTH COVE RD	89+02 RT	36
NORTH COVE RD	90+50 LT	15
NORTH COVE RD	92+00 LT	13
TOTAL QUANTITY		208

3767S HDPE PIPE GRAVITY SANITARY SEWER MAIN 8-INCH (L.F.)					
ROAD	START STATION	END STATION	START STRUCTURE	END STRUCTURE	8 IN. DIAM (L.F.)
NORTH COVE RD	80+58	81+57	SSMH 2.8	SSMH 2.7	88
NORTH COVE RD	81+57	82+56	SSMH 2.7	SSMH 2.6	88
NORTH COVE RD	82+56	86+56	SSMH 2.6	SSMH 2.5	314
NORTH COVE RD	86+56	90+56	SSMH 2.5	SSMH 2.4	396
NORTH COVE RD	90+56	93+76	SSMH 2.4	SSMH 2.3	396
NORTH COVE RD	93+76	94+70	SSMH 2.3	SSMH 2.2	93
NORTH COVE RD	94+70	95+61	SSMH 2.2	SSMH 2.1	93
TOTAL QUANTITY					1,469

6155S SSFM GATE VALVE 3-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	2
TOTAL QUANTITY	2

6155S SSFM GATE VALVE 6-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	5
TOTAL QUANTITY	5

7360 MANHOLE 48 IN. DIAM. TYPE 1 (EACH)			
ROAD	STATION	STRUCTURE NAME	DEPTH (FT.)
NORTH COVE RD	82+86 LT	SSMH 2.1	8
NORTH COVE RD	84+36 LT	SSMH 2.2	8
NORTH COVE RD	85+86 LT	SSMH 2.3	8
NORTH COVE RD	86+18 RT	SSMH 2.4	8
NORTH COVE RD	87+49 LT	SSMH 2.5	8
NORTH COVE RD	87+52 RT	SSMH 2.6	8
NORTH COVE RD	88+99 LT	SSMH 2.7	8
NORTH COVE RD	92+00 LT	SSMH 2.8	10
TOTAL QUANTITY			8

GRADING

0310, 0350, 0470, 6408 EARTHWORK (C.Y.)				
ROAD	0310 ROADWAY EXC. INCL. HAUL (C.Y.)	0350 UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL (C.Y.)	0470 EMBANKMENT COMPACTION (C.Y.)	(+) EXCESS (-) BORROW (C.Y.)
NORTH COVE RD	52,528	3,448	1,079	51,449
TOTAL QUANTITY	52,528	3,448	1,079	51,449

6408 TOPSOIL CLASS B (ACRES)		
ROAD	AREA (S.F.)	QUANTITY (ACRES)
NORTH COVE RD	93,459	2.1
TOTAL QUANTITY		2.1

STORM

0886 STREMBED COBBLES 6-INCH (C.Y.)						
ROAD	DESCRIPTION	BEGIN STA	END STA	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
NORTH COVE RD	DA-8 DITCH (1)	78+75	82+00	2,669	0.50	49
TOTAL QUANTITY						49

0887 STREMBED COBBLES 8-INCH (C.Y.)						
ROAD	DESCRIPTION	BEGIN STA	END STA	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
NORTH COVE RD	DA-8 DITCH (2)	94+91	95+18	343	0.67	8
TOTAL QUANTITY						8

1085 QUARRY SPALLS (C.Y.)				
ROAD	DESCRIPTION	AREA (S.F.)	DEPTH (L.F.)	QUANTITY (C.Y.)
RIPRAP APRON				
NORTH COVE RD	DA-8 OUTFALL	165	2	10
TOTAL QUANTITY				10

6531S VEGETATIVE FILTER STRIP (S.Y.)			
ROAD	BEGIN STA	END STA	QUANTITY (S.Y.)
NORTH COVE RD	75+63	95+47	1,220
TOTAL QUANTITY			1,220

WATER

3838 BLOWOFF ASSEMBLY (EACH)		
ROAD	STATION & SIDE	QUANTITY (EACH)
NORTH COVE RD	78+24 LT	1
NORTH COVE RD	93+03 RT	1
NORTH COVE RD	95+08 RT	1
TOTAL QUANTITY		3

3846 HYDRANT ASSEMBLY (EACH)		
ROAD	STATION & SIDE	QUANTITY (EACH)
NORTH COVE RD	77+84 LT	1
NORTH COVE RD	82+02 LT	1
NORTH COVE RD	86+28 LT	1
NORTH COVE RD	90+39 LT	1
TOTAL QUANTITY		4

3935S HDPE FOR WATER MAIN 8-INCH (L.F.)			
ROAD	BEGIN STA	END STA	8 IN. DIAM. (L.F.)
NORTH COVE RD	75+75	95+08	1,988
TOTAL QUANTITY			1,988

3858 SERVICE CONNECTION 1 IN. DIAM. (EACH)		
ROAD	STATION & SIDE	QUANTITY 1 IN. DIAM. (EACH)
NORTH COVE RD	81+80 LT	1
NORTH COVE RD	83+86 LT	1
NORTH COVE RD	85+36 LT	1
NORTH COVE RD	85+68 RT	1
NORTH COVE RD	86+87 LT	1
NORTH COVE RD	87+16 RT	1
NORTH COVE RD	88+46 RT	1
NORTH COVE RD	88+49 LT	1
NORTH COVE RD	89+99 LT	1
NORTH COVE RD	91+50 LT	1
TOTAL QUANTITY		10

6160 GATE VALVE 8-INCH (EACH)	
ROAD	QUANTITY (EACH)
NORTH COVE RD	7
TOTAL QUANTITY	7

SURFACING AND PAVEMENT

5095 CRUSHED SURFACING BASE COURSE (C.Y.)					
ROAD	BEGIN STA	END STA	AREA (S.F.)	DEPTH (FT)	QUANTITY (CY)
LANES					
NORTH COVE RD	75+75	95+08	46278	0.33	572
CURB & SIDEWALK					
NORTH COVE RD	75+75	95+08	10581	0.33	131
TEMPORARY CUL-DE-SAC					
NORTH COVE RD	95+08	96+19	8348	0.33	103
TOTAL QUANTITY					806

5115 CRUSHED SURFACING TOP COURSE (C.Y.)					
ROAD	BEGIN STA	END STA	AREA (S.F.)	DEPTH (FT)	QUANTITY (CY)
TEMPORARY CUL-DE-SAC					
NORTH COVE RD	95+08	96+19	8348	0.25	78
TOTAL QUANTITY					78

5767 HMA CL. 1/2 IN. PG 58H-22 (TON)		145.2 LB/FT^3
ROAD	AREA (S.F.)	DEPTH (FT)
NORTH COVE RD	46,278	0.25
TOTAL QUANTITY		856

7552S CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION (S.Y.)				
ROAD	BEGIN STA	END STA	AREA (S.F.)	QUANTITY (SY)
LANES				
NORTH COVE RD	75+75	95+08	46278	5,142
CURB & SIDEWALK				
NORTH COVE RD	75+75	95+08	10581	1,176
TEMPORARY CUL-DE-SAC				
NORTH COVE RD	95+08	96+19	8348	928
TOTAL QUANTITY				7,246

TRAFFIC

6701 CEMENT CONC. TRAFFIC CURB (L.F.)				
ROAD	BEGIN STA	END STA	SIDE	QUANTITY (L.F.)
NORTH COVE RD	75+75	95+08	LT	1,925
TOTAL QUANTITY				1,925

6945 CONDUIT PIPE 2 IN. DIAM (L.F.)	
ROAD	QUANTITY (L.F.)x4
NORTH COVE RD	7,980
TOTAL QUANTITY	7,980

6947 CONDUIT PIPE 3 IN. DIAM (L.F.)	
ROAD	QUANTITY (L.F.)x4
NORTH COVE RD	7,980
TOTAL QUANTITY	7,980

OTHER ITEMS

7055 CEMENT CONCRETE SIDEWALK (S.Y.)					
ROAD	BEGIN STA	END STA	SIDE	WIDTH (FT)	QUANTITY (S.Y.)
NORTH COVE RD	0+00	3+53	LT	5	1,069
TOTAL QUANTITY					1,069

7535 CONSTRUCTION GEOTEXTILE FOR DITCH LINING (SY)					
ROAD	DESCRIPTION	BEGIN STA	END STA	AREA (S.F.)	QUANTITY (S.Y.)
NORTH COVE RD	DA-8 OUTFALL			165	18
NORTH COVE RD	DA-8 DITCH (1)	78+75	82+00	2,669	297
NORTH COVE RD	DA-8 DITCH (2)	94+91	95+18	343	38
TOTAL QUANTITY					353

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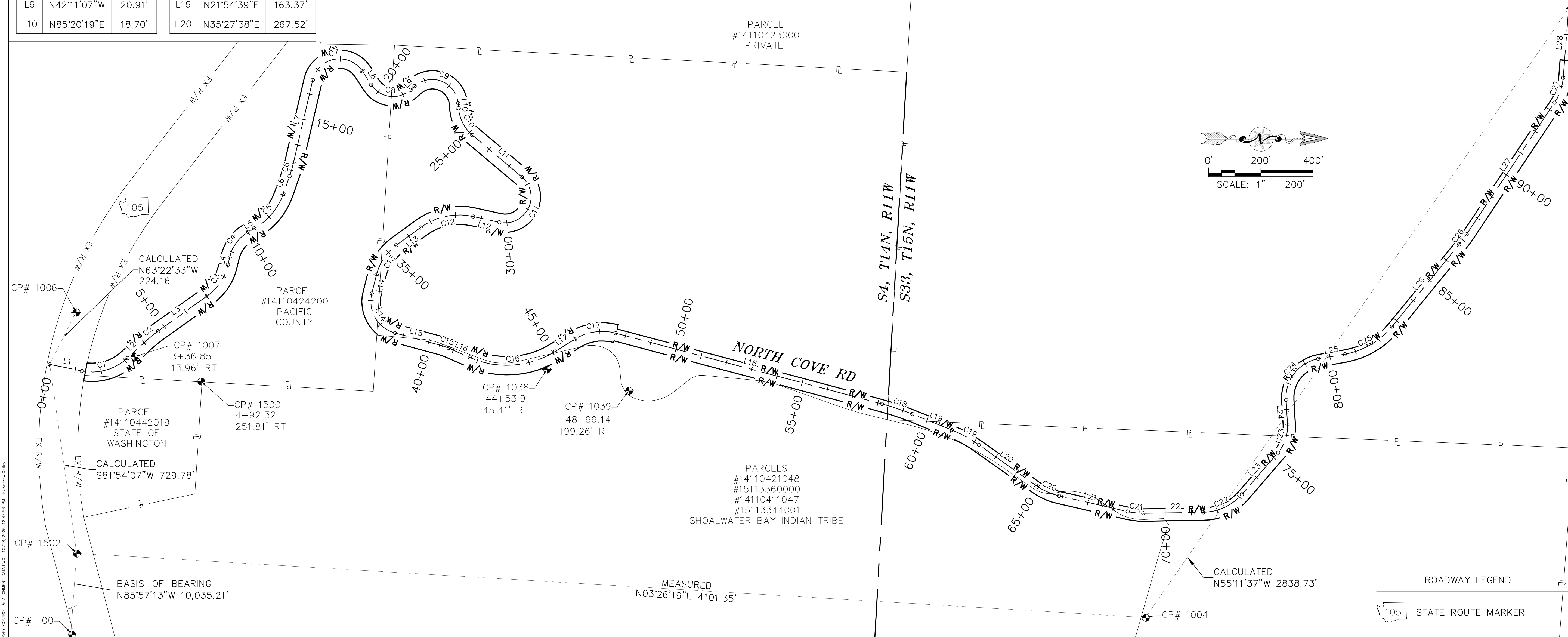
REVISIONS		DESCRIPTION				
NO.	DATE					

LINE TABLE		
L#	BEARING	L
L1	N11°27'26"E	124.85'
L2	N42°46'54"W	93.35'
L3	N35°36'17"W	232.46'
L4	N77°26'24"W	28.57'
L5	N29°53'18"W	27.10'
L6	N70°38'11"W	70.07'
L7	N76°55'46"W	323.69'
L8	N57°02'48"E	61.05'
L9	N42°11'07"W	20.91'
L10	N85°20'19"E	18.70'

LINE TABLE		
L#	BEARING	L
L11	N40°07'14"E	247.66'
L12	S12°27'29"W	102.46'
L13	S36°07'45"E	115.21'
L14	S75°46'16"E	74.32'
L15	N15°02'43"E	182.65'
L16	N23°57'52"E	88.24'
L17	N32°00'36"W	87.23'
L18	N14°52'59"E	1055.30'
L19	N21°54'39"E	163.37'
L20	N35°27'38"E	267.52'

LINE TABLE		
L#	BEARING	L
L21	N12°56'58"E	269.99'
L22	N0°53'40"W	229.37'
L23	N49°04'29"W	211.34'
L24	S86°28'40"W	94.53'
L25	N9°59'06"W	102.93'
L26	N50°42'38"W	406.86'
L27	N56°15'20"W	605.79'
L28	N85°28'02"W	265.67'

CONTROL POINT TABLE				
CP#	EL	N	E	DESC.
100	13.97	527771.99	760919.31	CP
1004	455.13	532574.07	751155.11	SET_CP
1006	32.10	528477.76	749986.22	SET CP_OTH
1007	32.58	528701.36	750157.03	CP_RPC
1038	232.79	530281.09	750204.47	CP_RPC
1039	287.30	530595.08	750286.45	CP_RPC
1500	44.38	528956.88	750251.07	FD_AC OFFSET MON IS 2.5 FEET NE
1502	16.02	528480.11	750909.12	FD_IP



CURVE TABLE									
CURVE	Δ	T	R	L	PC	PT	PI STA.	PI NORTH	PI EAST
C1	54°14'20"	102.43'	200.00'	189.33'	1+24.85	3+14.18	2+27.28	528600.06	750231.76
C2	7°10'36"	31.36'	500.00'	62.63'	4+07.54	4+70.16	4+38.89	528766.77	750077.48
C3	41°50'07"	76.44'	200.00'	146.03'	7+02.62	8+48.65	7+79.06	529043.42	749879.39
C4	47°33'05"	66.08'	150.00'	124.49'	8+77.22	10+01.71	9+43.30	529080.62	749712.39
C5	40°44'52"	92.84'	250.00'	177.80'	10+28.81	12+06.61	11+21.66	529241.91	749619.69
C6	6°17'35"	27.49'	500.00'	54.92'	12+76.68	13+31.60	13+04.16	529305.04	749440.06
C7	133°58'35"	247.22'	105.00'	245.52'	16+55.28	19+00.81	19+02.50	529440.37	748857.17
C8	99°13'55"	117.57'	100.00'	173.19'	19+61.85	21+35.04	20+79.42	529672.00	749214.49
C9	127°31'26"	202.89'	100.00'	222.57'	21+55.96	23+78.53	23+58.84	529924.94	748985.25
C10	45°13'05"	62.47'	150.00'	118.38'	23+97.23	25+15.61	24+59.70	529948.03	749268.37

CURVE TABLE									
CURVE	Δ	T	R	L	PC	PT	PI STA.	PI NORTH	PI EAST
C11	152°20'15"	406.17'	100.00'	265.88'	27+63.27	30+29.15	31+69.44	530495.77	749729.95
C12	48°35'14"	112.85'	250.00'	212.00'	31+31.61	33+43.61	32+44.46	529888.93	749595.88
C13	39°38'31"	72.09'	200.00'	138.38'	34+58.83	35+97.20	35+30.91	529646.51	749772.85
C14	89°11'02"	123.23'	125.00'	194.57'	36+71.52	38+66.09	37+94.75	529580.23	750034.22
C15	8°55'09"	15.60'	200.00'	31.13'	40+48.74	40+79.87	40+64.34	529890.69	750117.67
C16	55°58'27"	186.00'	350.00'	341.93'	41+68.11	45+10.04	43+54.11	530155.53	750235.39
C17	46°53'35"	86.74'	200.00'	163.69'	45+97.27	47+60.95	46+84.01	530460.77	750044.58
C18	7°01'41"	61.41'	1000.00'	122.66'	58+16.25	59+38.91	58+77.66	531623.85	750353.68
C19	13°32'59"	59.40'	500.00'	118.24'	61+02.29	62+20.53	61+61.69	531887.50	750459.73
C20	22°30'41"	49.75'	250.00'	98.22'	64+88.05	65+86.27	65+37.80	532194.30	750678.25

CURVE TABLE									
CURVE	Δ	T	R	L	PC	PT	PI STA.	PI NORTH	PI EAST
C21	13°50'38"	30.35'	250.00'	60.41'	68+56.26	69+16.66	68+86.61	532535.49	750756.70
C22	48°10'49"	89.42'	200.00'	168.18'	71+46.04	73+14.22	72+35.46	532884.59	750751.25
C23	44°26'50"	61.29'	150.00'	116.36'	75+25.56	76+41.92	75+86.84	533121.76	750477.70
C24	83°32'14"	133.97'	150.00'	218.70'	77+36.45	79+55.15	78+70.41	533103.96	750188.46
C25	40°43'32"	111.35'	300.00'	213.24'	80+58.08	82+71.32	81+69.43	533446.93	750128.08
C26	5°32'42"	24.21'	500.00'	48.39'	86+78.18	87+26.57	87+02.40	533790.42	749708.27
C27	29°12'43"	52.12'	200.00'	101.97'	93+32.36	94+34.33	93+84.48	534169.32	749141.07

NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
PROJECT LAND TIES

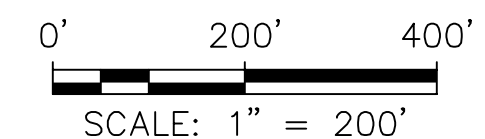


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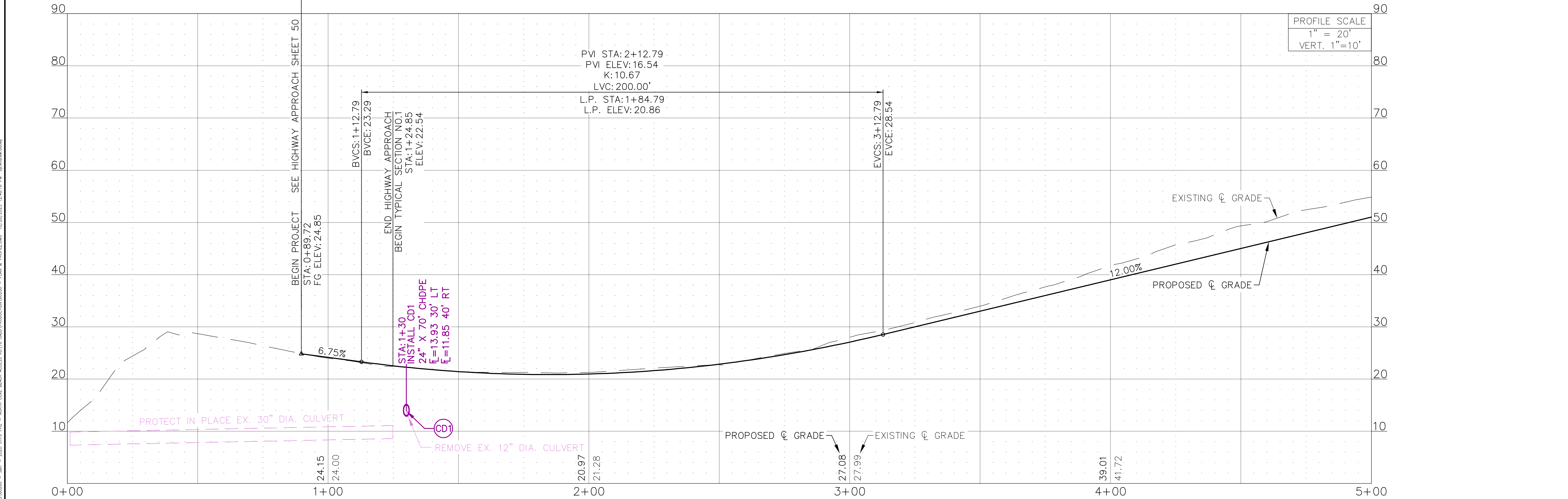
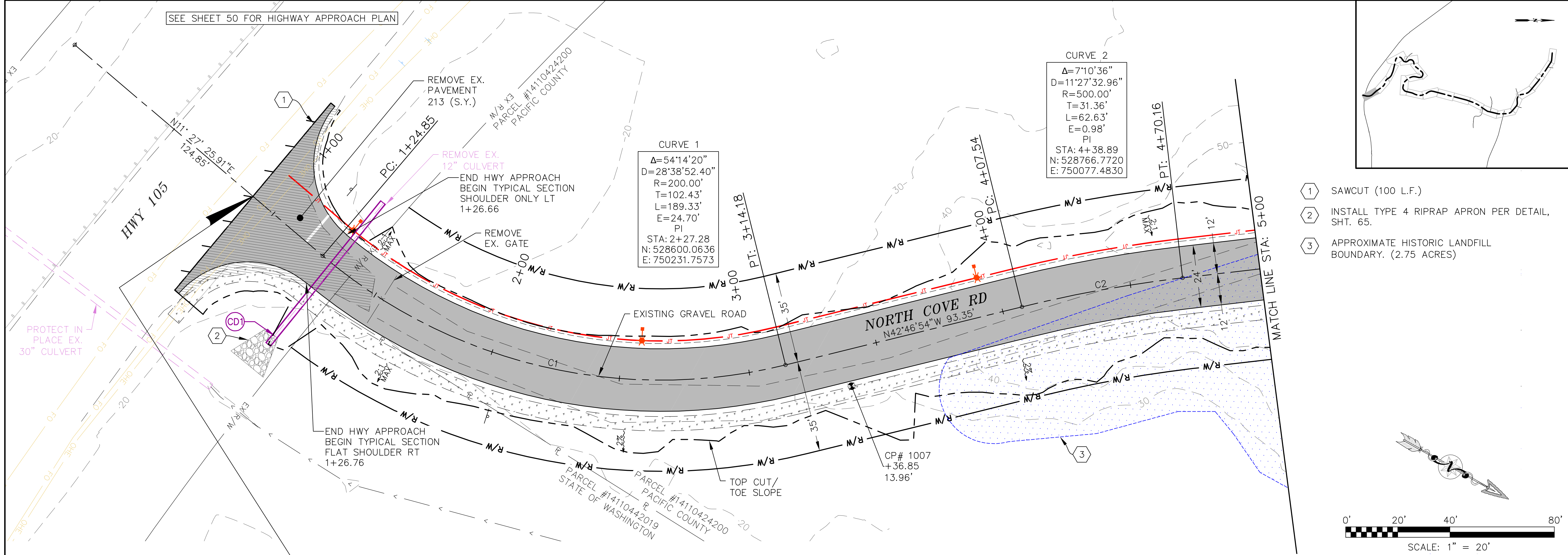


NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
PROJECT PLAN MAP



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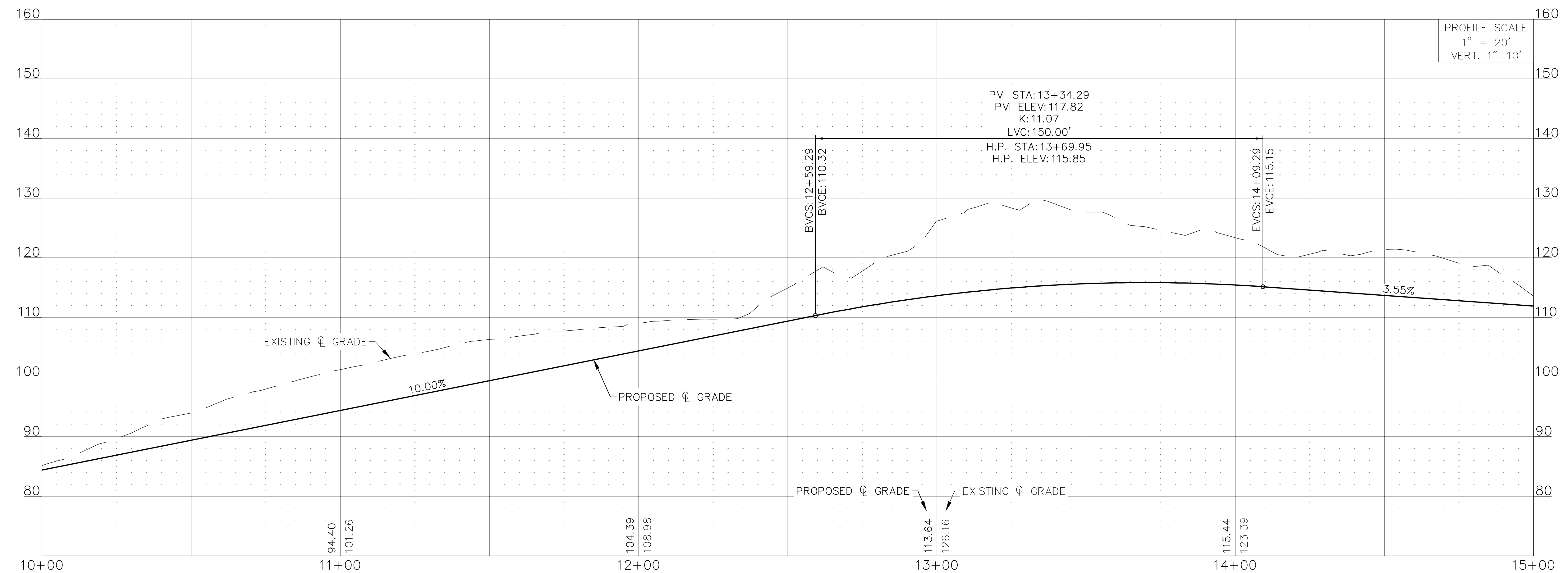
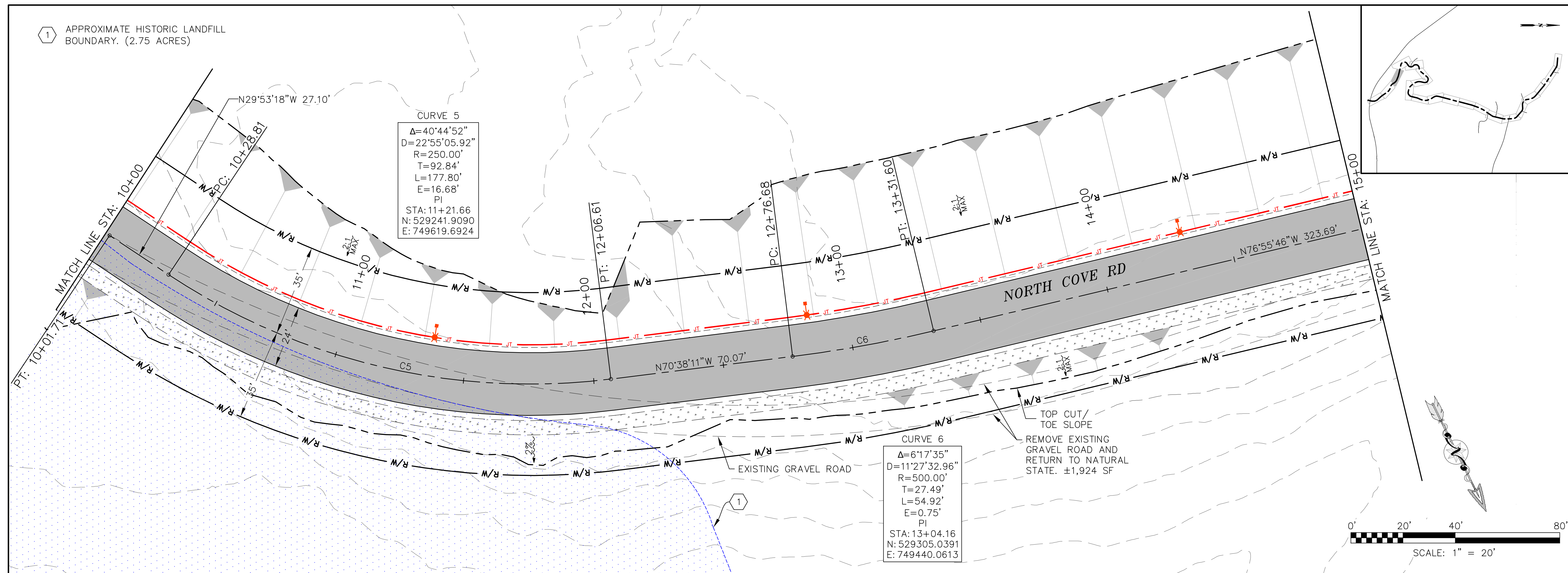


NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
TOKELAND, WA
PLAN & PROFILE

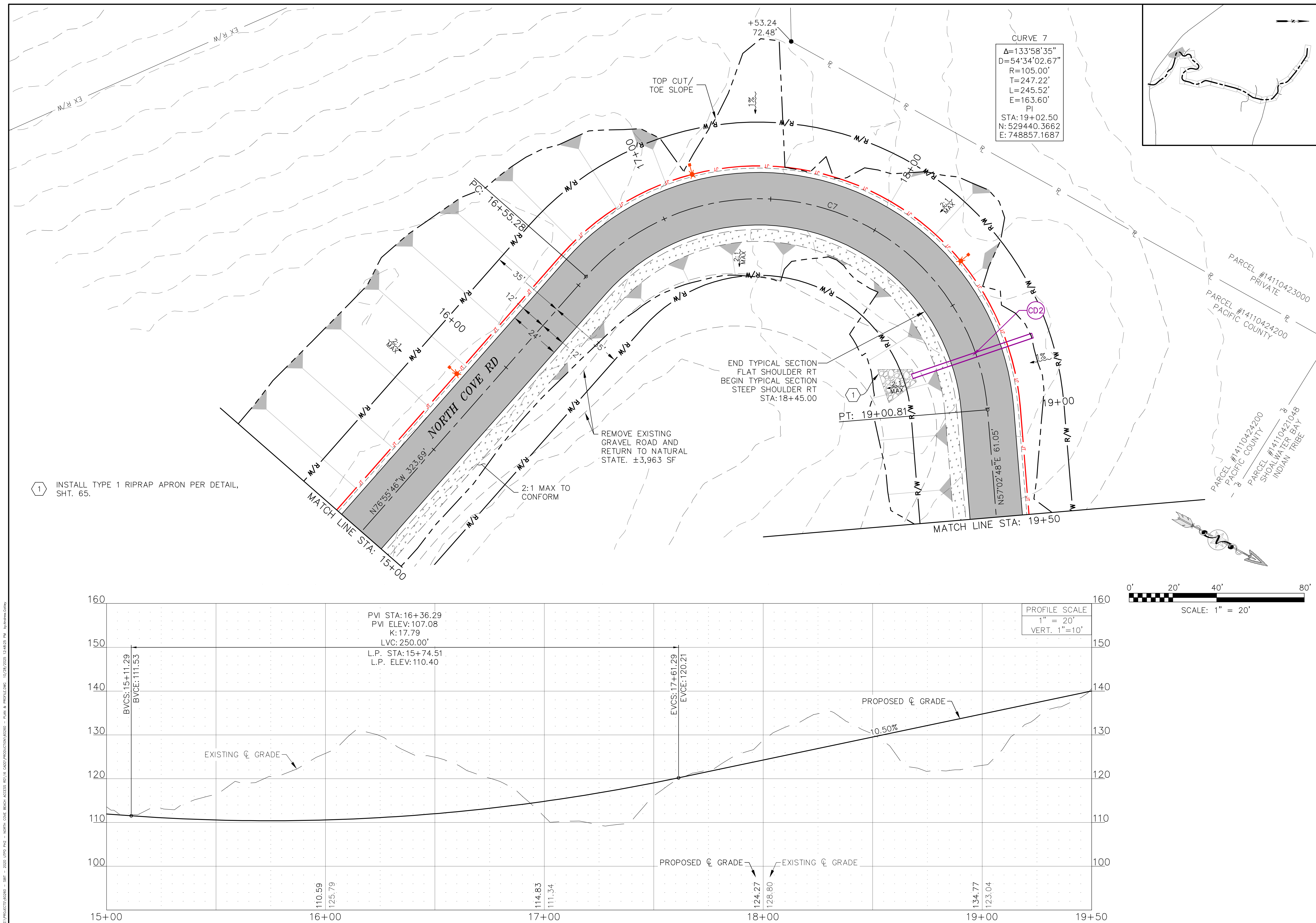


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NO.	DATE	REVISIONS DESCRIPTION	PROJ.	SHT.
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NORTH COVE BEACH ACCESS ROAD
SHOALWATER BAY INDIAN TRIBE
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