

DAHP USE ONLY	
Date Received:	
DAHP Log #:	
Reviewer(s):	
☐ ARCHY	☐ BEU



EZ / PROJECT FORM

Request to initiate consultation for Undertakings subject to Section 106 of the National Historic Preservation Act and 36 CFR 800

For non-cultural resource professionals only

Section 106

New Consultation? ☐ YES ☐ NO If no, WISAARD Project #:

Questions?

First, check FAQ section on our website <https://dahp.wa.gov/project-review/ez-project-review-form>
Then, contact DAHP at 106@dahp.wa.gov

Please be aware that this form may only initiate consultation. For some projects, DAHP may require additional information to complete our review. A historic property inventory form or archaeological survey may need to be completed by a qualified cultural resource professional.

NOTE: To save this fillable form you must fill it out in Adobe Acrobat or use the PRINT to PDF function in Acrobat Reader. In Reader choose File > Print and choose Adobe PDF as the printer. The file will save to your computer.

FORM MUST BE FILLED OUT IN ITS ENTIRETY

SECTION 1: PROJECT INFORMATION

Project Title: IHGBC HUD Eagle Hill Project	Provide 1-2 sentence summary of the project. The proposed development would include (2) two 1-acre residential lots and (2) duplex buildings for a total of (4) residential units, which will be located southeast of the intersection of Eagle Hill and Forest Road. Additional project activities include utility installation, stabilization and roadway improvements to the existing Eagle Hill Road and Forest Road.
Property Name: <i>if applicable</i>	
Project Address: Eagle Hill Road	
City, State, Zip: Tokeland, WA 98590	County: Pacific Township / Range / Section: 14N/11W/3 leave blank if unsure

SECTION 2: PROJECT DESCRIPTION

Project includes (check all that apply): ☒ NEW CONSTRUCTION ☐ DEMOLITION ☒ GROUND DISTURBANCE ☐ REHABILITATION / RENOVATION ☐ ACQUISITION
Are any buildings 45 years or older going to be impacted in any of the above ways by this project? ☐ YES ☐ NO ☐ Check here if the project involves multiple resources. If so, attach a table including all information in Sections 1 and 2 for each resource.
Building age (REQUIRED): If you do not know the age of the building(s) this is usually available through the county assessor web parcel search. To find this page put in the name of the county, Washington assessor property search into your web search engine of choice. I.e.. Adams county Washington assessor property search.
Have you already received a grant? ☐ YES ☐ NO, WE ARE APPLYING NOW ☐ NO, WE HAVE NOT APPLIED YET

SECTION 3: FEDERAL AGENCY INFORMATION

Federal Agency: US HUD	Grant / Loan Program Name: IHBG Competitive
Contact Person: Sandel Ferguson, Grants Management Specialist	Phone: (206) 220-6673 e-mail: Sandel.Ferguson@hud.gov
Requested grant / loan amount: 6,167,683	Total project amount: 6,167,683

SECTION 4: CONTACT INFORMATION

If different from Federal Agency contact person.

Submitter Name: Risa Thomas	Submitter Organization: Shoalwater Bay Indian Tribe
Submitter Phone: 360.267.8152	Submitter e-mail: rthomas@shoalwaterbay-nsn.gov
Submitter Address: 2373 Tokeland Road	City, State, Zip: Tokeland, WA 98590

DAHP CONCURRENCE (DAHP USE ONLY)

☐ There are NO HISTORIC PROPERTIES AFFECTED by the proposed project.	DAHP REVIEWER
☐ The project will have NO ADVERSE EFFECT on historic properties.	DATE
☐ The project will have an ADVERSE EFFECT on historic properties.	

If new or additional information about affected resources becomes available and/or the project scope of work changes, please resume consultations as the assessment may be revised. If archaeological resources are uncovered during construction, please immediately halt work in the area of the find and contact the consulted Tribes and DAHP for further consultation.

SECTION 5: ATTACHMENTS

Email completed form and all attachments to:

106@dahp.wa.gov



MAP - Must show the project boundary and location of building(s) and proposed excavations.



DESCRIPTION/SCOPE OF WORK - Describe the project, including any ground disturbance. See Section 6 for an optional template.



SITE PLAN / DRAWINGS - Indicate location and dates of resources, proposed improvements and ground disturbance, etc.



PHOTOGRAPHS - Attach digital photographs showing the project site, including images of all resources. Photos submitted through WISAARD may suffice.

SECTION 6: ADD'L PROJECT INFORMATION

Describe the work to be done with the allocated funding.

The proposed development would include (2) two 1-acre residential lots and (2) duplex buildings for a total of (4) residential units, which will be located southeast of the intersection of Eagle Hill and Forest Road. Additional project activities include utility installation, stabilization and roadway improvements to the existing Eagle Hill Road and Forest Road.

Roadway infrastructure improvement would include additional improvements to Eagle Hill Road, TTP Route 34 Section 10 and Forest Road, TTP Route 3 Sections 10-30. The total road improvement would include 0.51 miles of 24-foot wide paved roadway with a 5-foot sidewalk on one side. Over 90% of the roadway will include vegetative filter strips per Washington Department of Ecology details on the downhill side of the roadway.

To continue the effort made for utility extensions up Eagle Hill Road, this project will further develop the utilities and infrastructure to prepare the property for potential future community upland relocation

Describe the project site existing conditions and and known history of the project site and building(s).

Eagle Hill Road is partially paved, providing access to the existing multipurpose building, which was constructed in the 2010s. Other than the existing logging roads (Eagle Hill Road and Forest Road are unpaved in this area), no other current or historical improvements are known to exist within the project boundaries. The proposed development site for the residential units is currently undeveloped forest land, which will be graded to accommodate the proposed improvements; additionally, there are cut and fill aspect of the project that are necessary to stabilize Eagle Hill and Forest Road to provide safe access, efficient stormwater drainage and sidewalks.

If any ground disturbing activities are proposed (site prep, geotechnical bores, grading, excavation, grubbing, etc.), describe them including the approximate depth of ground disturbance.

Localized fill, cut slopes, retaining wall development, geotechnical test pits, grading, utility trenching, septic system installation and full site disturbance are anticipated within the proposed project boundaries. The depth of these disturbances will be a maximum of 11 feet below the existing ground surface.



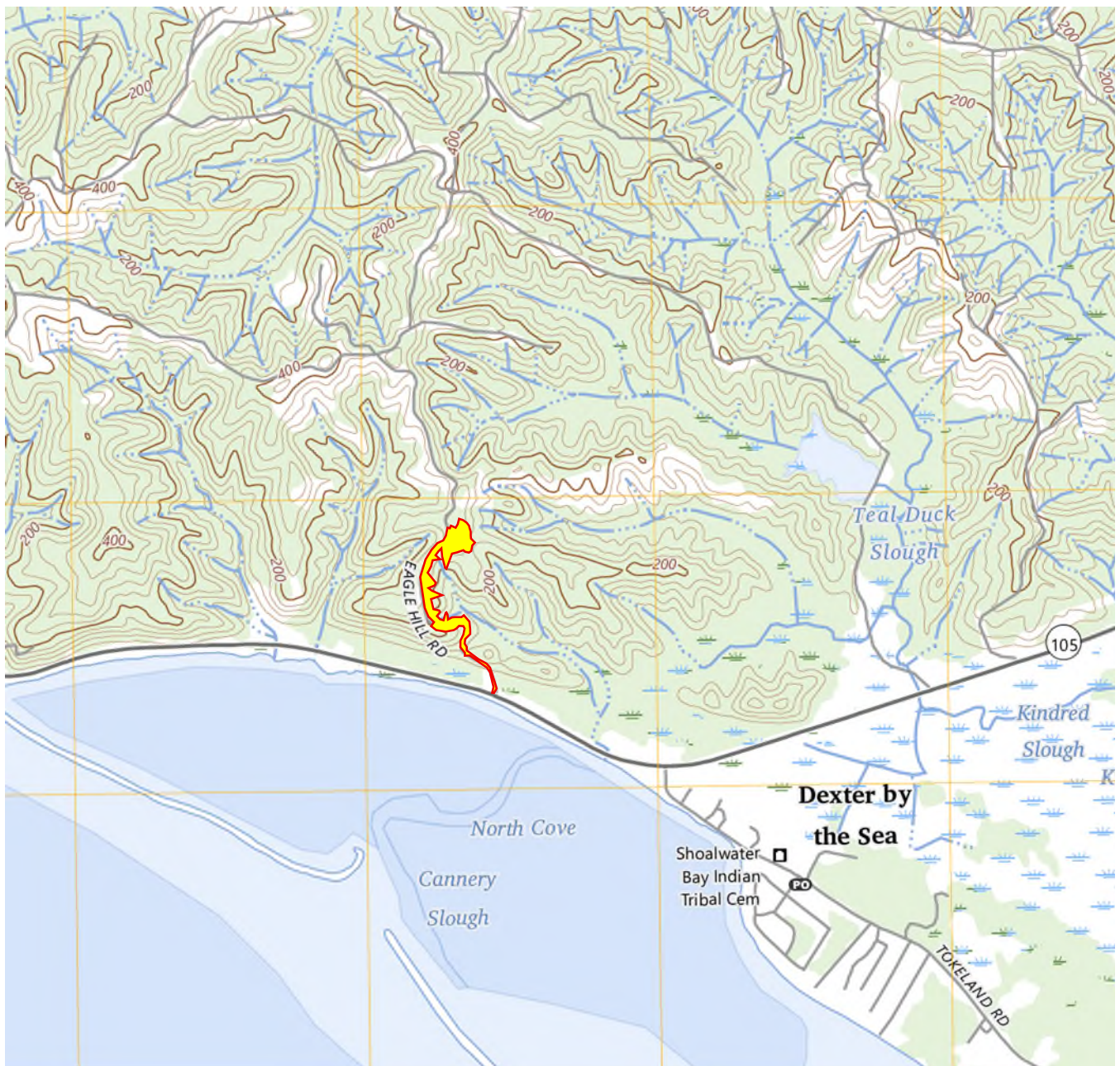
Proposed Project APE
46 Degrees 43'53.17"N, 124 Degrees 1'48.41"W
(no assigned address) Eagle Hill Road
Tokeland, Washington 98590
Grant/Project No. 23ICWA14180

Project
Location

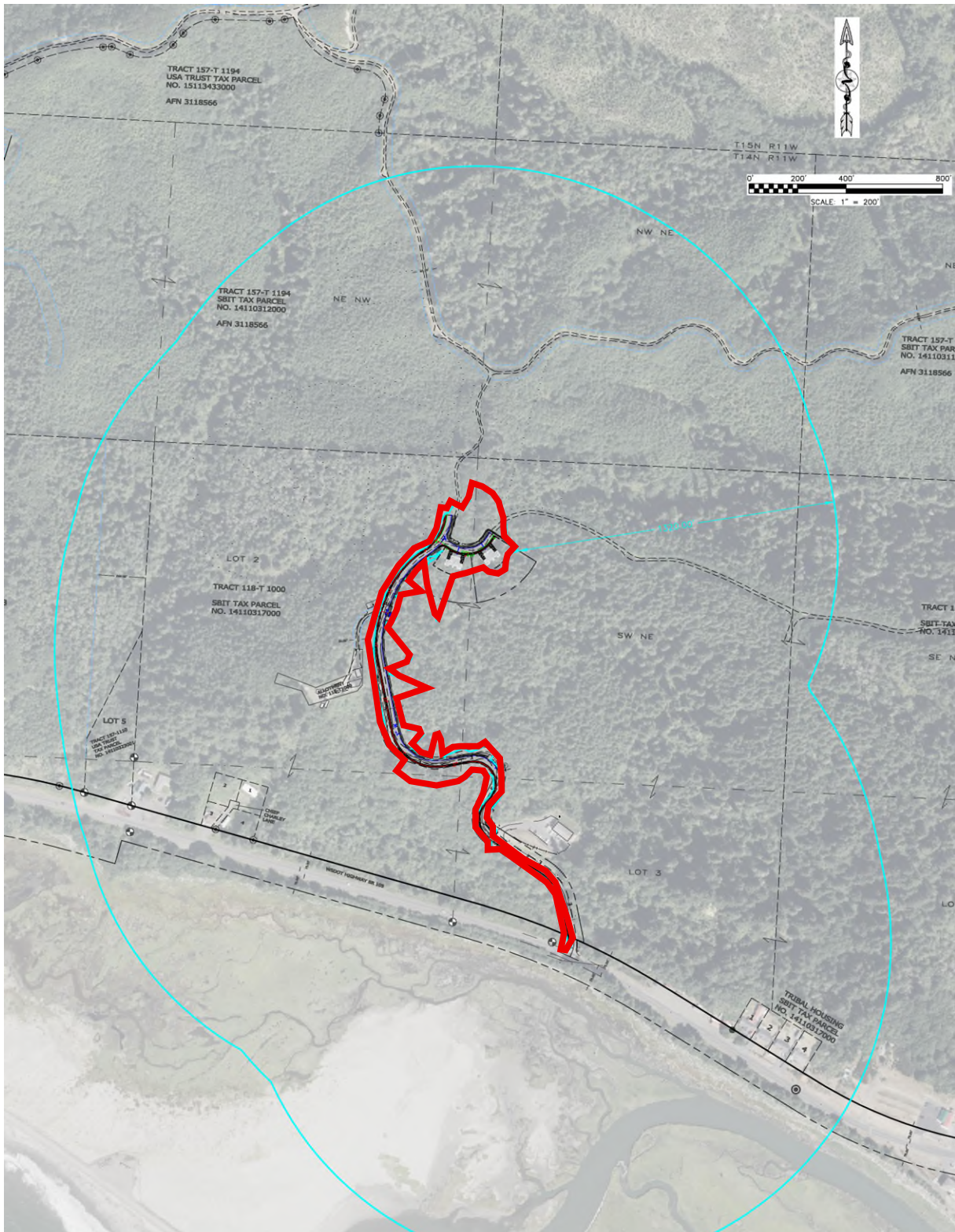


N↑

Source:
Red Plains
Professional, Inc.



	Proposed Project APE 46 Degrees 43'53.17"N, 124 Degrees 1'48.41"W (no assigned address) Eagle Hill Road Tokeland, Washington 98590 Grant/Project No. 23ICWA14180	APE in Red	N ↑
		Source: USGS	



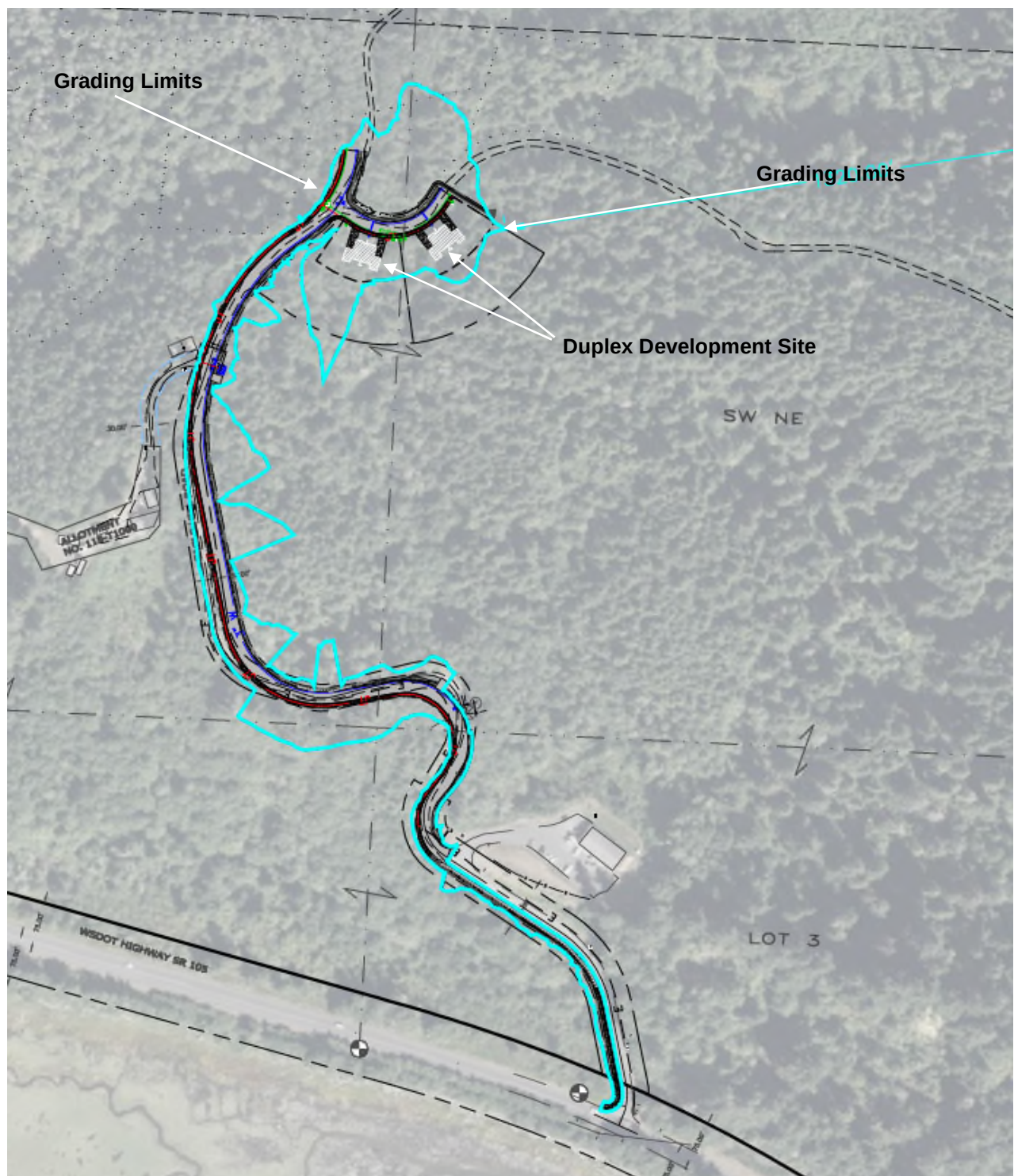
Proposed Project APE
 46 Degrees 43'53.17"N, 124 Degrees 1'48.41"W
 (no assigned address) Eagle Hill Road
 Tokeland, Washington 98590

Grant/Project No. 23ICWA14180

APE in
Red



Source:
Red Plains
Professional, Inc.



	Proposed Project APE 46 Degrees 43'53.17"N, 124 Degrees 1'48.41"W (no assigned address) Eagle Hill Road Tokeland, Washington 98590 Grant/Project No. 23ICWA14180	Grading Limits in Cyan	N↑
		Source: Red Plains Professional, Inc.	



Proposed Project APE
 46 Degrees 43'53.17"N, 124 Degrees 1'48.41"W
 (no assigned address) Eagle Hill Road
 Tokeland, Washington 98590

Grant/Project No. 23ICWA14180

Approximate
 APE in Red
Year: 1942



Source:
 WA Department of
 Ecology Coastal Zone
 Atlas (USACE photo)



1. Intersection of Eagle Hill Road and SR 105



2. South side of Eagle Hill Road, within the project area



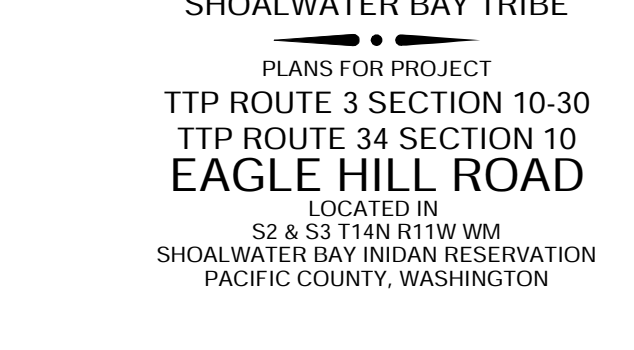
3. Proposed duplex development site looking east at the intersection of Eagle Hill Road and Forest Road



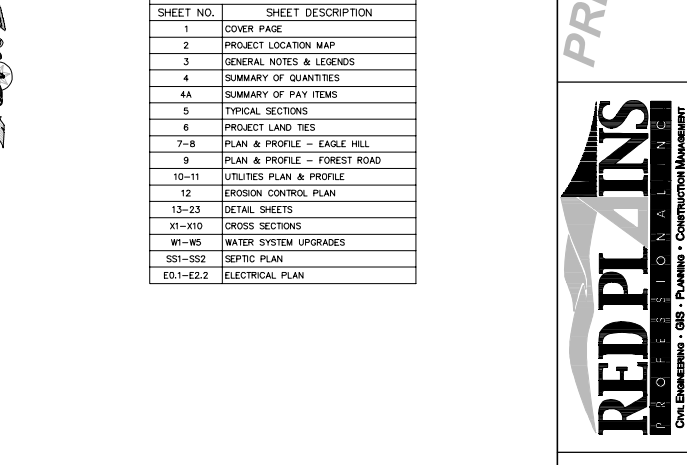
4. West side of Eagle Hill Road, opposite the duplex development site



5. Proposed duplex development site



HOQUIAM TRIBE
WASCO COUNTY, OREGON



PLAINS
CONALLING
TRAINING • CONSTRUCTION MANAGEMENT

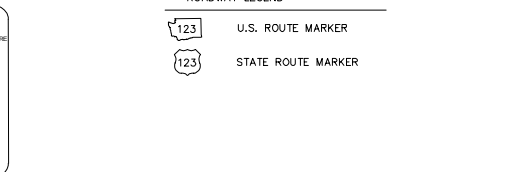
A map of the study area in Washington state. It shows Willapa Bay to the west, Bruceport on the coast, and Raymond further inland. Highway 105 is indicated by a box with the number 105. The map shows the coastline and the location of the study sites relative to these landmarks.

REF
P R O F
Civil Engineering

NOTICE 1

U.S. ROUTE MARKER

RED PLAINS PROFESSIONAL, INC.
2103 NE 128TH STREET
SUITE 201

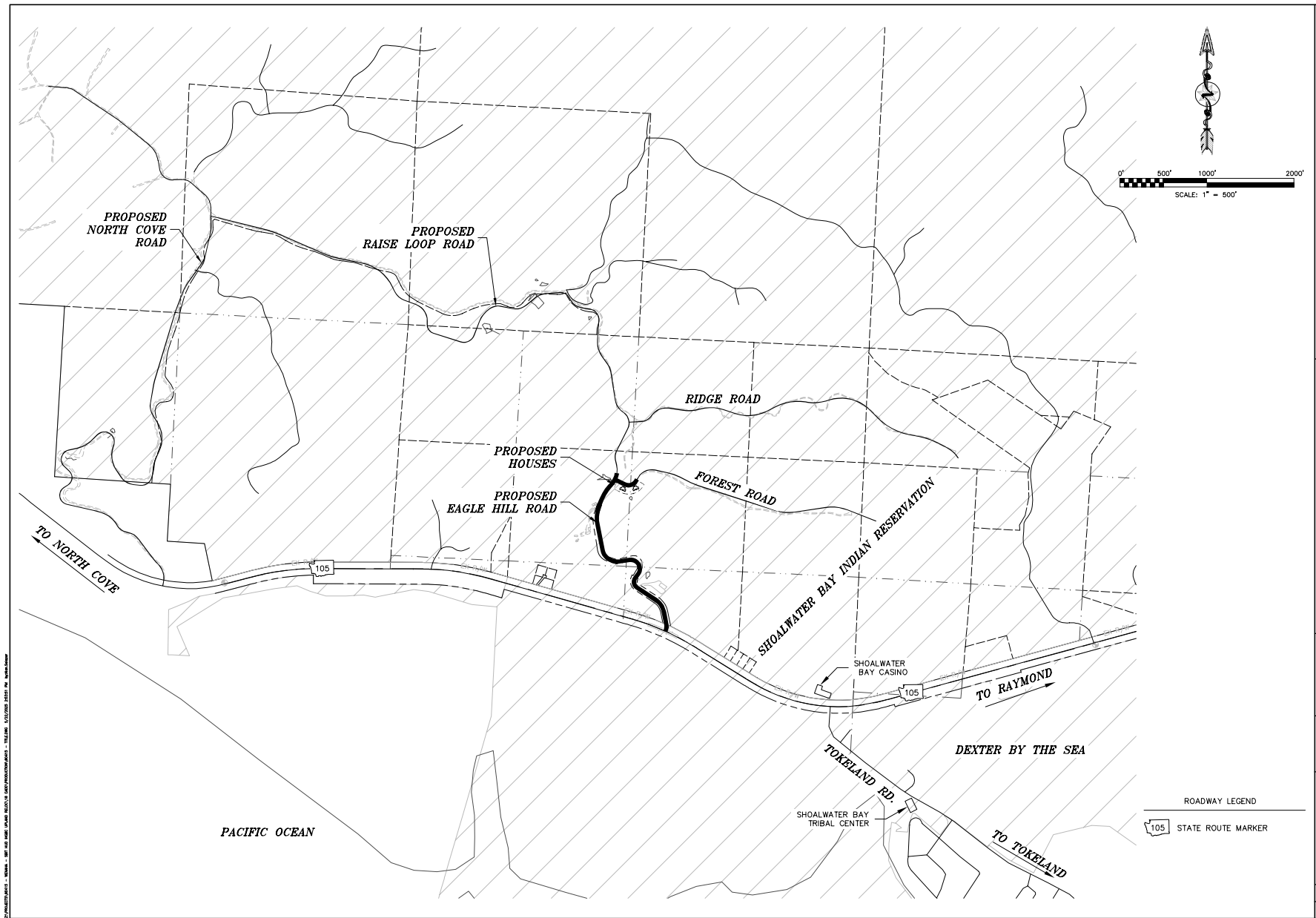


DESIGN CRITERIA (LOCAL ROADS & STREETS) A POLICY OF GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2018 7TH EDITION

PROJ.	60415	60%	

[illegible][illegible]

RED PLAINS PROFESSIONAL, INC.
2103 NE 129TH STREET
SUITE 201
VANCOUVER, WA 98686
TEL: (360) 448-7999
FAX: (360) 258-0274
www.red-plains.com



PRELIMINARY ONLY

PRESBIT HUD/IHBC
SHOALWATER BAY TRIBE
TOKELAND, WA

PROJECT LOCATION MAP

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

RED PLAINS PROFESSIONAL, INC.
2703 NE 128th STREET, SUITE 201
VANCOUVER, WA 98086
TEL: (360) 448-7999
FAX: (360) 258-0274
www.red-plains.com

REVISIONS	
NO.	DATE

PROJ. 60415

SHT. 2

GENERAL NOTES

1. MATERIALS & WORKMANSHIP:

- A. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION 2025 M 41-10 AND AS MODIFIED BY SPECIAL PROVISIONS.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL UTILITIES. THIS WORK WILL NOT BE MEASURED OR PAID FOR DIRECTLY BUT WILL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE CONTRACT. UTILITIES SHALL BE WORKED AROUND. ANY DAMAGE TO THESE UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- C. DO NOT DISTURB EXISTING SURVEY MONUMENTS. SEE NOTE 8.B.
- D. 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 MAY 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 IN A MANNER APPROVED BY THE C.O.R.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MATERIALS SOURCES FOR THIS PROJECT AND MEETING ALL REQUIREMENTS OF DIVISION 9 OF THE WSDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SECURING ALL PERMITS FOR THE USE OF THE SOURCE AND PROVIDING COPIES OF THE DOCUMENTS TO THE PROJECT C.O.R.
- F. 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 ENGINEER. MATERIAL NOT RE-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.
- G. 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.
- H. 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.
- I. 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.

2. TRAFFIC CONTROL & PUBLIC SAFETY:

- A. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH WSDOT DETAILS AND THE MUTCD, AND SHALL INCLUDE THE CONTRACTOR'S CONSTRUCTION SEQUENCING PLAN.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNING AND MAINTENANCE OF TRAFFIC DETOURS DURING CONSTRUCTION IN ACCORDANCE WITH WSDOT AND MUTCD STANDARDS AND SPECIFICATIONS.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL QUALITY CONTROL WORK IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION REQUIREMENTS.

3. DRAINAGE SYSTEM CONSTRUCTION:

- A. THE CONTRACTOR SHALL USE ACTUAL FIELD STAKED CULVERT LENGTHS THAT HAVE BEEN RECORDED IN A PIPE BOOK. THE CULVERT LENGTHS SHALL BE CALCULATED DURING THE "CONSTRUCTION SURVEY AND STAKING" PORTION OF THE PROJECT. THE CULVERT LENGTHS AND FINAL LOCATIONS (INCLUDING SKEW ANGLE) SHALL BE APPROVED BY THE PROJECT C.O.R. PRIOR TO THE CONTRACTOR ORDERING THE CULVERT MATERIALS.
- B. THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS, TYPICAL SECTIONS, APPROACHES, AND TURNOUTS SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE ENGINEER. 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 THE C.O.R.
- C. CHANNEL EXCAVATION, DITCH BLOCKS, DUKES, "V" DITCHES AND FURROW DITCHES WILL NOT BE MEASURED DIRECTLY FOR PAYMENT, BUT WILL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE CONTRACT.

4. 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 SHOALWATER BAY TRIBE.

5. DOCUMENTATION:

- A. THE CONTRACTOR SHALL READ AND MAKE CAREFUL EXAMINATION OF THE PLANS, SPECIFICATIONS, QUANTITIES AND MATERIALS BEFORE MAKING A BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ERRORS RESULTING FROM THE FAILURE TO MAKE SUCH AN EXAMINATION. ANY INFORMATION DERIVED FROM THE MAPS, PLANS, SPECIFICATIONS, PROFILES, DRAWINGS OR FROM THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM ANY RISK OR FROM FULFILLING THE TERMS OF THE CONTRACT.
- B. 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.
- C. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE C.O.R. DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE C.O.R. PRIOR TO ACCEPTANCE OF THE WORK.
- D. 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.
- E. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.

6. GEOTECHNICAL:

- A. CONTRACTOR TO FOLLOW RECOMMENDATIONS FOR EARTHWORK OUTLINED IN THE GEOTECHNICAL REPORT DATED MARCH 12, 2025 BY SOUTH SOUND GEOTECHNICAL CONSULTING.

7. UTILITIES:

- A. PRIOR TO THE RELOCATION OF ANY EXISTING UTILITIES AS NOTED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY COMPANY.

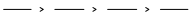
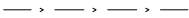
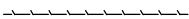
8. SURVEY:

- A. ALL CONSTRUCTION SURVEYING SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL LAND SURVEYOR OR PROFESSIONAL ENGINEER 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 CEDS CERTIFICATION.

ABBREVIATIONS

ABC.	AGGREGATE BASE COURSE
ALIGN.	ALIGNMENT
ASPH.	ASPHALT
BFS	BEGIN FULL SUPER
BLDG	BUILDING
BM	BENCH MARK
BNC	BEGIN NORMAL CROWN
BW	BACK OF SIDEWALK
BVCS	BEGIN VERTICAL CURVE STATION
BVCE	BEGIN VERTICAL CURVE ELEVATION
C&G	CURB AND GUTTER
CD	CROSS DRAIN
C OR CL	CENTERLINE
CONC.	CONCRETE
COR OR C.O.R.	CONTRACTING OFFICER REPRESENTATIVE
CP	CONTROL POINT
CPP	CORRUGATED POLYETHYLENE PIPE
ORL	CONSTRUCTION REFERENCE LINE
CTSM	CONTINGENT SUM
CY	CUBIC YARD
DTL	DETAIL
DR.	DRIVE
EA.	EACH
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
F OR FL	FLOW LINE
FLG	FLANGE JOINT
GFL	GUTTER FLOW LINE ELEVATION
HP	HIGH POINT
HORZ	HORIZONTAL
LVC	LENGTH OF VERTICAL CURVE
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MTN	MOUNTAIN
MJ	MECHANICAL JOINT
N/A	NOT APPLICABLE
OFF.	OFFSET
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
UGG	UNDERGROUND GAS
RET.	RETAINING
RD	ROAD
RT	RIGHT
RTE	ROUTE
ROW OR R/W	RIGHT OF WAY
SEC.	SECTION
SPD	SPECIAL DITCH
STA.	STATION
STR.	STRUCTURE
SY	SQUARE YARD
TB	TOP OF ASPHALT
TBC	TOP BACK OF CURB
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TRANS.	TRANSITION
TCC	TEMPORARY CONSTRUCTION EASEMENT
VERT.	VERTICAL
W/	WITH
WP	WORK POINT

LEGEND

----- 234 -----	EXISTING CONTOUR MAJOR
----- 234 -----	EXISTING CONTOUR MINOR
----- 234 -----	PROPOSED CONTOURS
-----	PROPOSED GRADE BREAK
----- OHE -----	EXISTING OVERHEAD ELECTRIC LINE
----- FO -----	EXISTING FIBER OPTIC LINE
----- W -----	EXISTING WATER LINE
----- W -----	PROPOSED WATER LINE
----- X ----- X ----- X -----	EXISTING FENCE WIRE
----- R -----	PROPERTY LINE
----- EX R/W -----	EXISTING RIGHT-OF-WAY
-----	EXISTING EOA
-----	PROPOSED EOA
=====	PROPOSED RETAINING WALL
-----	EXISTING DIRT ROAD
----- R/W -----	PROPOSED RIGHT-OF-WAY
-----	CONSTRUCTION CENTERLINE
-----	PROPOSED TOP CUT/ TOE SLOPE
-----	HISTORIC LANDFILL BOUNDARY
----- SF ----- SF ----- SF -----	TEMPORARY SILT FENCE
	STRAW WATTLE
	PROPOSED ROCK FOR EROSION CONTROL
	PROPOSED CHECK DAM
	SURVEY CONTROL POINT
	EXISTING GUY WIRE
	EXISTING POWER POLE
	EXISTING TELEPHONE PEDESTAL
	EXISTING SIGN
	PROPOSED SIGN
	EXISTING PIPE CULVERT
	PROPOSED CULVERT
	PROPOSED ASPHALT
	PROPOSED DITCH
	EXISTING DRAINAGE PATH
	SAWCUT PAVEMENT
	REMOVE ASPHALT
	EXISTING GUARDRAIL
	PROPOSED GUARDRAIL

- THE FOLLOWING WORK SHALL BE COMPLETED BEFORE THE CONTRACTOR CAN PERFORM THE INITIAL TELEVISION CAMERA WORK:
- PLACEMENT OF APPLICABLE PIPE, BALLAST, BEDDING, AND BACKFILL MATERIAL.
 - COMPLETION OF ALL APPLICABLE CHANNELS AND GROUT WORK.
 - DEBRIS REMOVAL, CLEANING, AND FLUSHING OF ALL APPLICABLE PIPES AND STRUCTURES.
- THE TELEVISION INSPECTION REQUIREMENTS SHALL INCLUDE THE PROVISIONS OF:
- COLOR TELEVISION CAMERA WITH A PAN AND TILT CAPACITY IN ORDER TO VIEW ALL MAIN LATERAL LINES, AND STRUCTURES INCLUDING CHANNELS.
 - A 1-INCH REFERENCE BALL TO BE MOUNTED TO THE CAMERA IN ORDER TO DRAG ALONG BOTTOM OF THE PIPE DURING THE ENTIRE INSPECTION PROCEDURE, ANY PONDING OVER 1-INCH SHALL BE REPAIRED AT NO COST TO THE TRIBE AND TO THE SATISFACTION OF THE SBT.
- THE FOLLOWING TELEVISION VIDEO INSPECTION AND REPORT SHALL BE PROVIDED TO THE SBT WASTE WATER DEPARTMENT:
- REFERENCE DATA AS DESCRIBED HEREIN, A DVD 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 REFERENCES DATA AS DESCRIBED HEREIN. THE REPORT SHALL CONSIST OF WRITTEN NARRATIVE OF ALL DISTINCTIVE PIPE CONDITIONS, INCLUDING PONDING AREAS IN EXCESS OF 1/2 INCH.

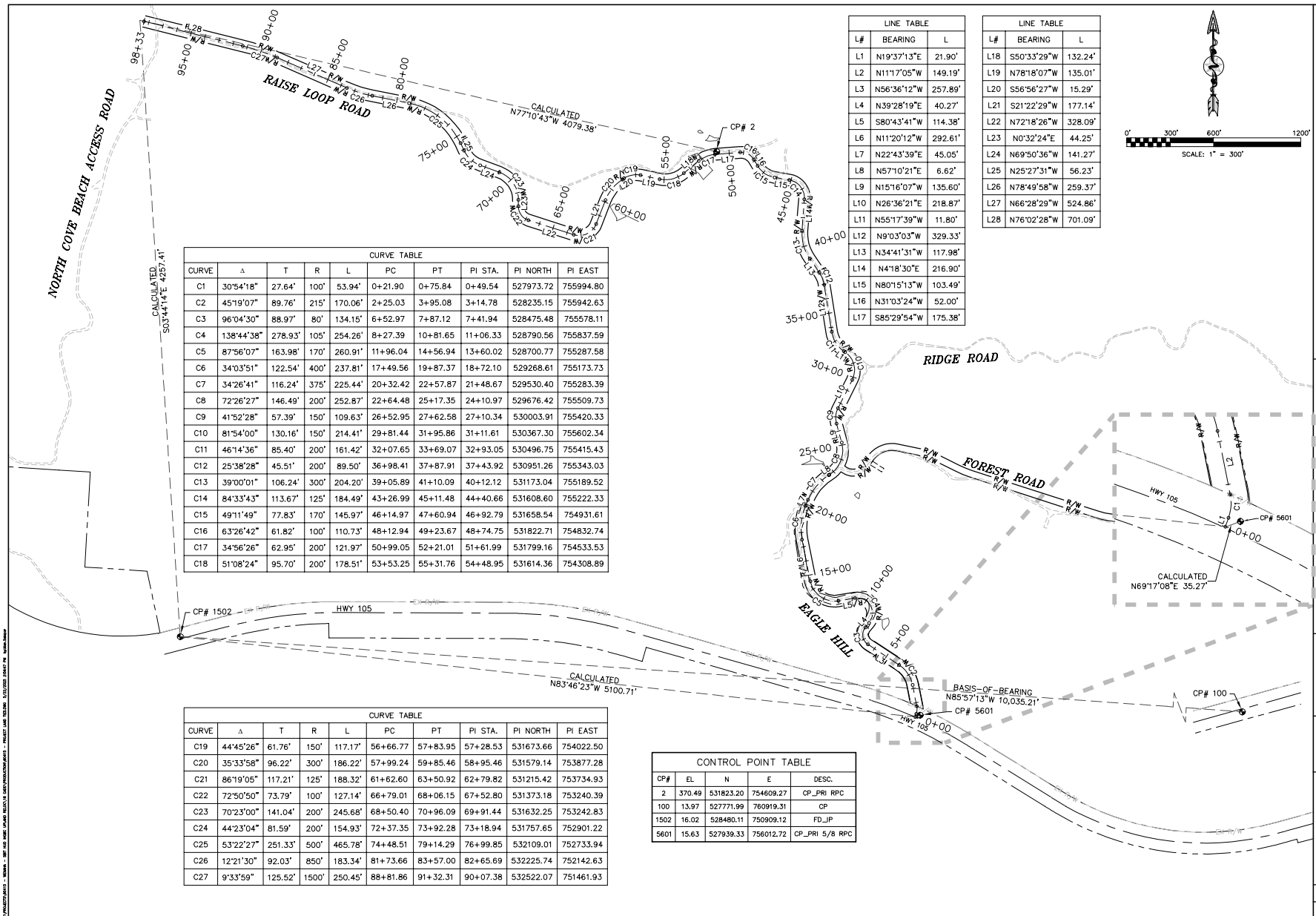
WATER PLAN GENERAL NOTES

- ALL BIOLOGICAL TEST SAMPLES SHALL BE TAKEN BY SBIT WATER DEPARTMENT STAFF OR APPROVED REPRESENTATIVE.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES.
- CONTRACTOR SHALL MAINTAIN WATERLINE SERVICES TO ALL USERS FOR DURATION OF THE PROJECT.
- PIPE OF DISTRIBUTION WATER MAINS SHALL BE HIGH-DENSITY POLYETHYLENE PE3408 CONFORMING TO MINIMUM CELL CLASS 345464 C, D OR E PER ASTM D3350. PIPE DIAMETER SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C 906. PIPE PRESSURE CLASS SHALL BE AS LISTED IN TABLE 9 OF ANSI/AWWA C 906 FOR DR 9 PE3408 MATERIAL. FURNISH ALL PIPES WITH MINIMUM DIMENSION RATIO (DR) OF 17.
- CONNECTIONS TO EXISTING WATER MAINS SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CONTRACTOR PRE-APPROVED BY THE SBIT WATER DEPARTMENT. THE TAPPING SLEEVE SHALL BE EPOXY COATED FABRICATED STEEL, STAINLESS STEEL SLEEVES SHALL ONLY BE USED ON AC PIPE. THE SBIT WATER DEPARTMENT SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS. CONTRACTOR TO NOTIFY QIN AND C.O.R. 48 HOURS IN ADVANCE OF TESTING.
- FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS AND SETTING TYPE B CONFIGURATION AS SHOWN IN WSDOT STANDARD PLANS.
- VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR UNPAVED AREAS. VALVES IN UNPAVED AREA SHALL HAVE A 2'X2'X4" CONC. PAD PLACED AROUND THE VALVE BOX PER DETAIL SHEET 23.
- RESIDENT SETBACK WEDGE GATE VALVES SHALL BE USED FOR ALL WATER MAINS 12 INCHES IN DIAMETER AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 12 INCHES IN DIAMETER.
- PIPE FITTING FOR WATER MAINS AND VALVES SHALL BE MECHANICAL JOINT DUCTILE IRON CONFORMING TO AWWA SPECIFICATIONS C111-72.
- TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD DETAIL.

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 ARE NET QUANTITIES, AND DO NOT INCLUDE SHRINKAGE, OR SWELL FACTORS.
4. PRICE BID TO INCLUDE WATERING FOR DUST CONTROL.
5. BID ITEM INCLUDES THE COST OF TRENCH EXCAVATION AND GRAVEL/SAND BACKFILL FOR PIPE ZONE BEDDING, AS SPECIFIED IN THE GEOTECH REPORT
6. BID PRICE TO INCLUDE END MARKERS.
7. BID PRICE TO INCLUDE FITTINGS FOR WATER METER CONNECTION AND METER BOX W/ LID.
8. PAY ITEM INCLUDES (2) 3" GATE VALVES FOR WATER AND (3) 3" GATE VALVES FOR SANITARY SEWER.
9. QUANTITY ESTIMATED AT 145.2 LB/C.F.
10. QUANTITY ESTIMATED AT 6.16 ACRES. STRAW WATTLES TO BE ANCHORED WITH LIVE 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. INCLUDES THE COST OF SIGN SUPPORT AND INSTALLATION. SIGN SUPPORT TO BE TYPE ST-1
12. TOTAL EXCAVATION INCLUDES AN ESTIMATED 16,569 CY OF TOPSOIL. TOPSOIL IS TO BE REMOVED AND STOCKPILED AT A LOCATION THAT DOES NOT INTERFERE WITH CONSTRUCTION. SEE GEOTECH REPORT, PROVIDED BY SOUTH SOUND GEOTECHNICAL CONSULTING DATED MARCH 12, 2025, FOR TOPSOIL DEPTHS AND LOCATIONS.
13. QUANTITY FOR OBTAINING A UNIT PRICE ONLY AND DOES NOT REFLECT AN ESTIMATED QUANTITY.

SUMMARY OF QUANTITIES					
ITEM NO.	WSDOT ITEM NO.	ITEM DESCRIPTION	NOTES	QUANTITY	UNIT
PREPARATION					
1	0001	MOBILIZATION		1	L.S.
2	0025	CLEARING AND GRUBBING	1	6	ACRE
3	0120	REMOVING ASPHALT CONC. PAVEMENT	2	138	S.Y.
4	0170	REMOVING GUARDRAIL	2	27	L.F.
GRADING					
5	0310	ROADWAY EXCAVATION INCL. HAUL	3, 4, 12	86,079	C.Y.
6	0350	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	3, 4, 13	16,569	C.Y.
7	0470	EMBANKMENT COMPACTION	3, 4	16,840	C.Y.
SANITARY SEWER					
8	3152	TESTING SEWER PIPE		398	L.F.
9	3640	SEWER CLEANOUT		3	EACH
10	3766	PVC SANITARY SEWER PIPE 6 IN. DIAM.	5, 6	20	L.F.
11	SP	PVC SANITARY SEWER PIPE 1 IN. DIAM.	5, 6	500	L.F.
12	SP	HDPE PIPE PRESSURE SANITARY SEWER MAIN 3 IN. DIAM.	5, 6	398	L.F.
13	SP	EFFLUENT SEWER SERVICE CONNECTION		2	EACH
14	SP	SEPTIC TANKS		4	EACH
15	SP	ASTM C-33 SAND		50	C.Y.
16	SP	OSCAR X02 SYSTEM		1	L.S.
STORM DRAINAGE					
17	SP	VEGETATIVE FILTER STRIP		1,404	S.Y.
18	10B5	QUARRY SPALLS		60	C.Y.
WATER					
19	3835	COMB. AIR RELEASE/ AIR VACUUM VALVE ASSEMBLY 1 IN.		1	EACH
20	3858	SERVICE CONNECTION 1 IN. DIAM.	7	4	EACH
21	SP	HDPE PIPE FOR WATER MAIN 3 IN. DIAM.	5	995	L.F.
22	SP	HDPE PIPE FOR WATER MAIN 8 IN. DIAM.	5, 6	720	L.F.
23	SP	GATE VALVE 3 IN.	8	5	EACH
24	6160	GATE VALVE 8 IN.		5	EACH
25	SP	NORWESCO 3,000 GALLON RESERVOIR		1	EACH
26	SP	GOULDS H5C15B BOOSTER PUMPS		2	EACH
27	SP	GRUNDFOS CUE100VDF CONTROLLERS		2	EACH
28	SP	MISC PUMPHOUSE PLUMBING AND MECHANICAL		1	L.S.
29	SP	MISC PUMPHOUSE ELECTRICAL		1	L.S.
30	SP	12'X16' PUMPHOUSE STRUCTURE		1	EACH
31	SP	3'X3' WELL DOGHOUSE		1	EACH
SURFACING / HOT MIX ASPHALT					
32	5095	CRUSHED SURFACING BASE COURSE		852	C.Y.
33	5115	CRUSHED SURFACING TOP COURSE		6	C.Y.
34	5767	HMA CL. 1/2 IN. PG 58H-22	9	966	TON
35	SP	TENSAR NX-750 GEOTIRD		7,653	S.Y.
EROSION CONTROL					
36	6488	EROSION CONTROL AND WATER POLLUTION PREVENTION	10	1	L.S.
TRAFFIC					
37	6857	PLASTIC CROSSWALK LINE		48	S.F.
38	6859	PLASTIC STOP LINE		28	L.F.
39	6890	PERMANENT SIGNING	11	1	L.S.
40	6971	PROJECT TEMPORARY TRAFFIC CONTROL		1	L.S.
OTHER ITEMS					
41	SP	RETAINING WALL		1	L.S.
42	6701	CEMENT CONC. TRAFFIC CURB		2,061	L.F.
43	SP	CEMENT CONC. TRAFFIC CURB WITH OPENINGS		654	L.F.
44	6945	CONDUIT PIPE 2 IN. DIAM.		2,032	L.F.
45	7038	ROADWAY SURVEYING		1	L.S.
46	7041	BOLLARD TYPE		9	EACH
47	7055	CEMENT CONC. SIDEWALK		1516	S.Y.
48	7058	CEMENT CONC. CURB RAMP TYPE		3	EACH
49	7059	CEMENT CONC. DRIVEWAY ENTRANCE TYPE		86	S.Y.
50	7535	CONSTRUCTION GEOTEXTILE FOR DITCH LINING		363	S.Y.
51	7728	MINOR CHANGE		1	L.S.



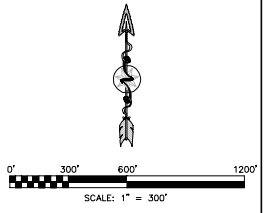
CURVE TABLE								
CURVE	Δ	T	R	L	PC	PT	PI STA.	PI NORTH
C1	30°54'18"	27.64'	100'	53.94'	0+21.90	0+75.84	0+49.54	527973.72
C2	45°19'07"	89.76'	215'	170.06'	2+25.03	3+95.08	3+14.78	528235.15
C3	96°04'30"	88.97'	80'	134.15'	6+52.97	7+87.12	7+41.94	528475.48
C4	138°44'38"	278.93'	105'	254.26'	8+27.39	10+81.65	11+06.33	528790.56
C5	87°56'07"	163.98'	170'	260.91'	11+96.04	14+56.94	13+60.02	528700.77
C6	34°03'51"	122.54'	400'	237.81'	17+49.56	19+87.37	18+72.10	529268.61
C7	34°26'41"	116.24'	375'	225.44'	20+32.42	22+57.87	21+48.67	529530.40
C8	72°26'27"	146.49'	200'	252.87'	22+64.48	25+17.35	24+10.97	529676.42
C9	41°52'28"	57.39'	150'	109.63'	26+52.95	27+62.58	27+10.34	530003.91
C10	81°54'00"	130.16'	150'	214.41'	29+81.44	31+95.86	31+11.61	530367.30
C11	46°14'36"	85.40'	200'	161.42'	32+07.65	33+69.07	32+93.05	530496.75
C12	25°38'28"	45.51'	200'	89.50'	36+98.41	37+87.91	37+43.92	530951.26
C13	39°00'01"	106.24'	300'	204.20'	39+05.89	41+10.09	40+12.12	531173.04
C14	84°33'43"	113.67'	125'	184.49'	43+28.99	45+11.48	44+40.66	531608.60
C15	49°11'49"	77.83'	170'	145.97'	46+14.97	47+60.94	46+92.79	531658.54
C16	63°26'42"	61.82'	100'	110.73'	48+12.94	49+23.67	48+74.75	531822.71
C17	34°56'26"	62.95'	200'	121.97'	50+99.05	52+21.01	51+61.99	531799.16
C18	51°08'24"	95.70'	200'	178.51'	53+53.25	55+31.76	54+48.95	531614.36

CURVE TABLE								
CURVE	Δ	T	R	L	PC	PT	PI STA.	PI NORTH
C19	44°45'26"	61.76'	150'	117.17'	56+66.77	57+83.95	57+28.53	531673.66
C20	35°33'58"	96.22'	300'	186.22'	57+99.24	59+85.46	58+95.46	531579.14
C21	86°19'05"	117.21'	125'	188.32'	61+62.60	63+50.92	62+79.82	531215.42
C22	72°50'50"	73.79'	100'	127.14'	66+79.01	68+06.15	67+52.80	531373.18
C23	70°23'00"	141.04'	200'	245.68'	68+50.40	70+96.09	69+91.44	531632.25
C24	44°23'04"	81.59'	200'	154.93'	72+37.35	73+92.28	73+18.94	531767.65
C25	53°22'27"	251.33'	500'	465.78'	74+48.51	79+14.29	76+99.85	532109.01
C26	12°21'30"	92.03'	850'	183.34'	81+73.66	83+57.00	82+65.69	532225.74
C27	9°33'59"	125.52'	1500'	250.45'	88+81.86	91+32.31	90+07.38	532522.07

CONTROL POINT TABLE				
CP#	EL.	N	E	DESC.
2	370.49	531823.20	754609.27	CP_PRI RPC
100	13.97	527771.99	760919.31	CP
1502	16.02	528480.11	750909.12	FD_JP
5601	15.63	527939.33	756012.72	CP_PRI 5/8 RPC

LINE TABLE		
L#	BEARING	L
L1	N19°37'13"E	21.90'
L2	N111°7'05"W	149.19'
L3	N56°36'12"W	257.89'
L4	N39°28'19"E	40.27'
L5	S80°43'41"W	114.38'
L6	N11°20'12"W	292.61'
L7	N22°43'39"E	45.05'
L8	N57°10'21"E	6.62'
L9	N15°16'07"W	135.60'
L10	N26°36'21"E	218.87'
L11	N55°17'39"W	11.80'
L12	N9°03'03"W	329.33'
L13	N34°41'31"W	117.98'
L14	N4°18'30"E	216.90'
L15	N80°15'13"W	103.49'
L16	N31°03'24"W	52.00'
L17	S85°29'54"W	175.38'

LINE TABLE		
L#	BEARING	L
L18	S50°33'29"W	132.24'
L19	N78°18'07"W	135.01'
L20	S56°56'27"W	15.29'
L21	S21°22'29"W	177.14'
L22	N72°18'26"W	328.09'
L23	N0°32'24"E	44.25'
L24	N69°50'36"W	141.27'
L25	N25°27'31"W	56.23'
L26	N78°49'58"W	259.37'
L27	N66°28'29"W	524.86'
L28	N76°02'28"W	701.09'



PRELIMINARY ONLY

PROJECT LAND TIES

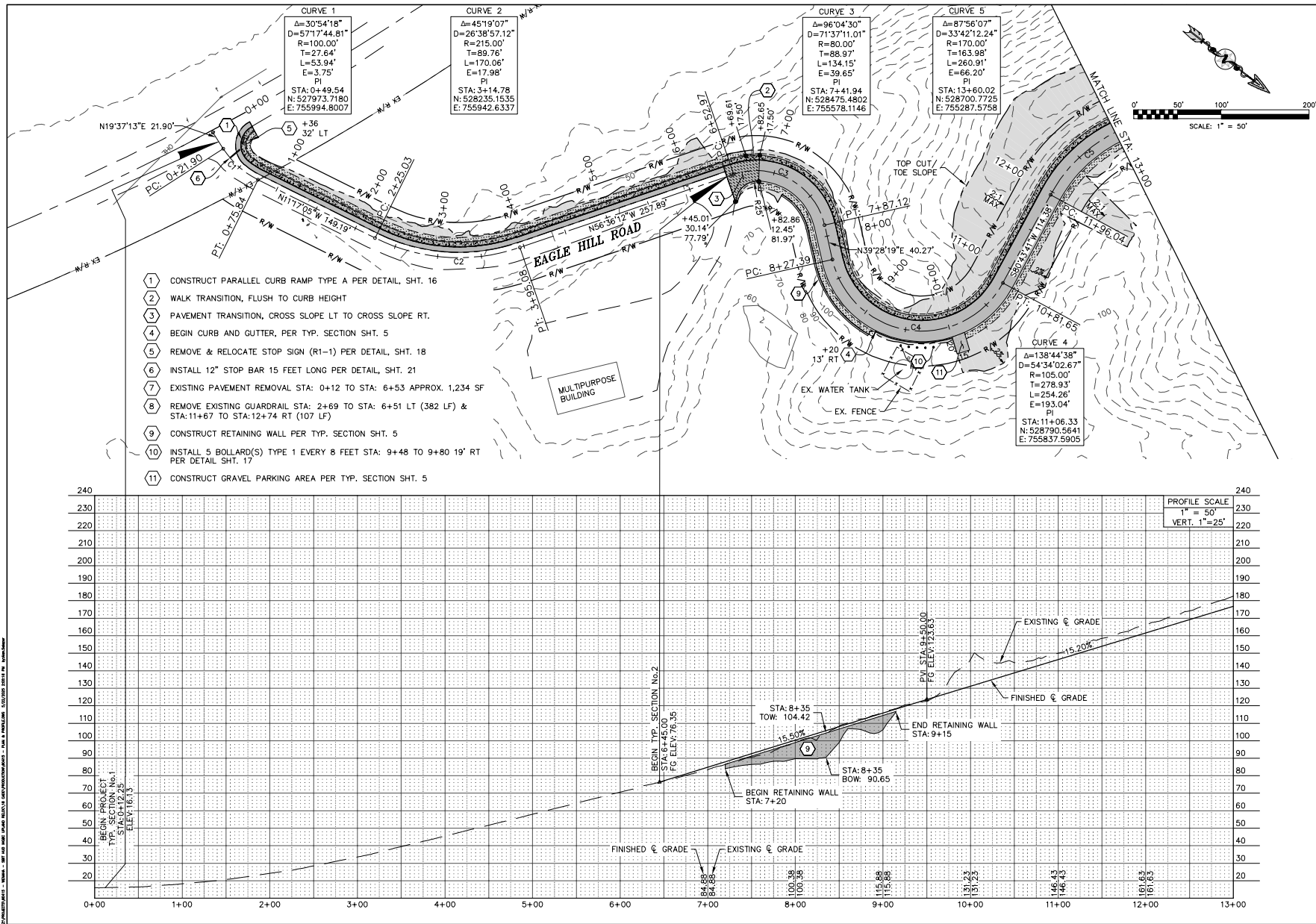
RED PLAINS

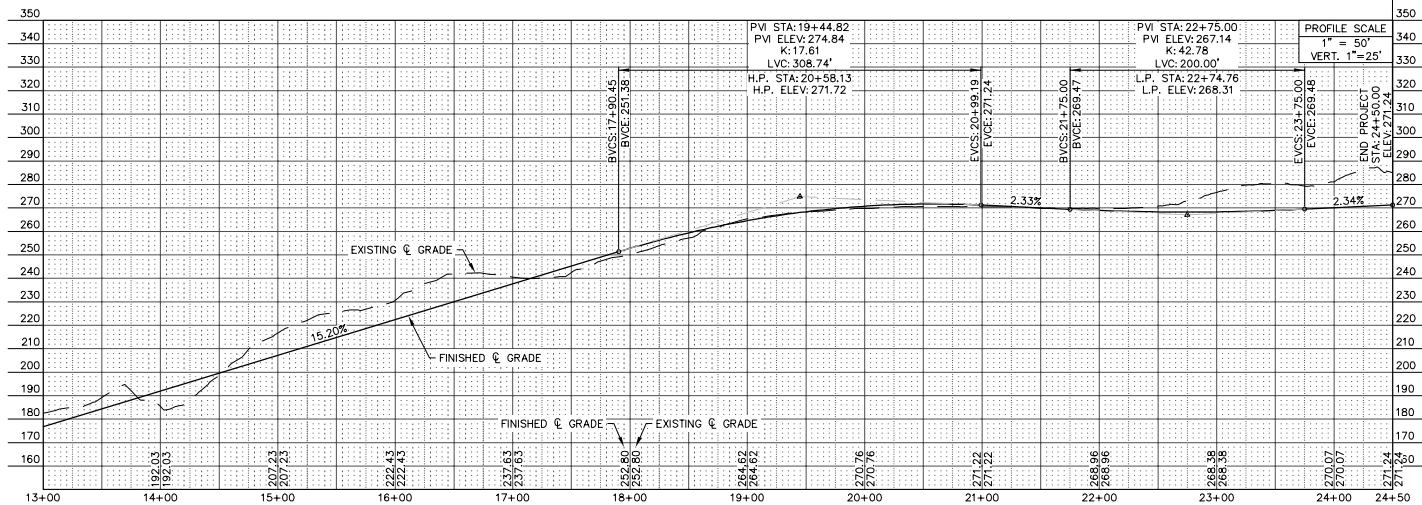
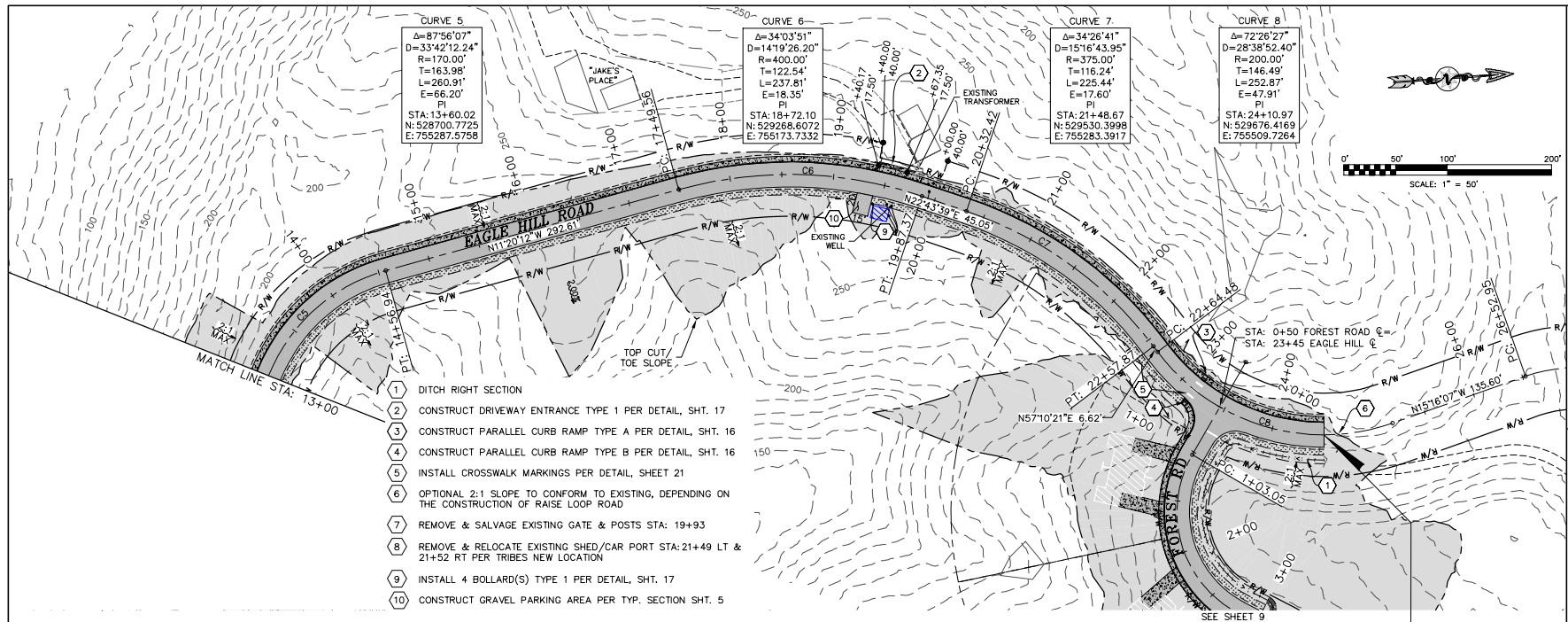
PROFESSIONAL ENGINEERING • GIS • PLANNING • CONSTRUCTION MANAGEMENT

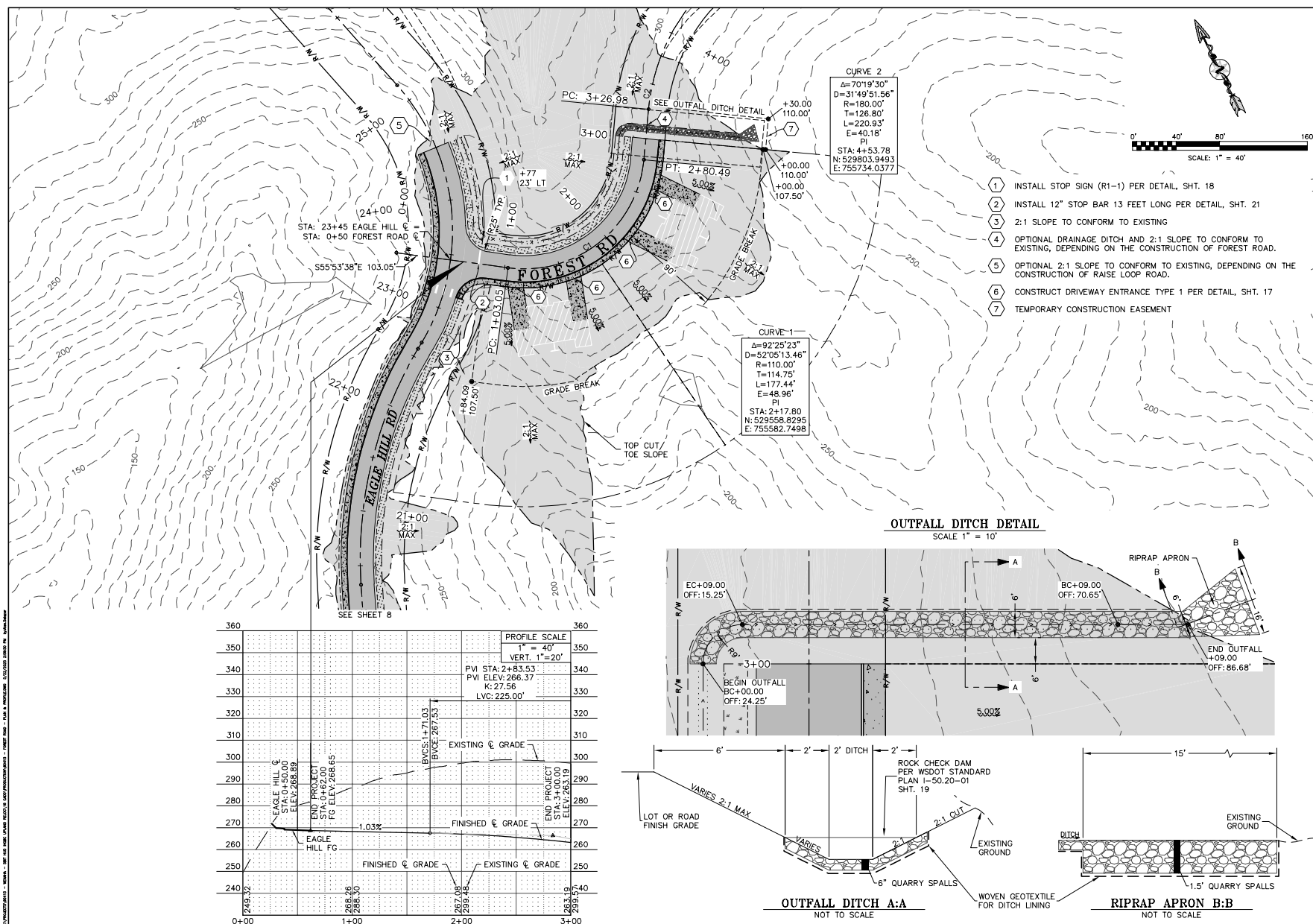
RED PLAINS PROFESSIONAL, INC.
2103 NE 129th STREET
VANCOUVER, WA 98066
TEL (360) 448-7999
FAX (360) 258-0274
www.red-plains.com

NO.	DATE	DESCRIPTION

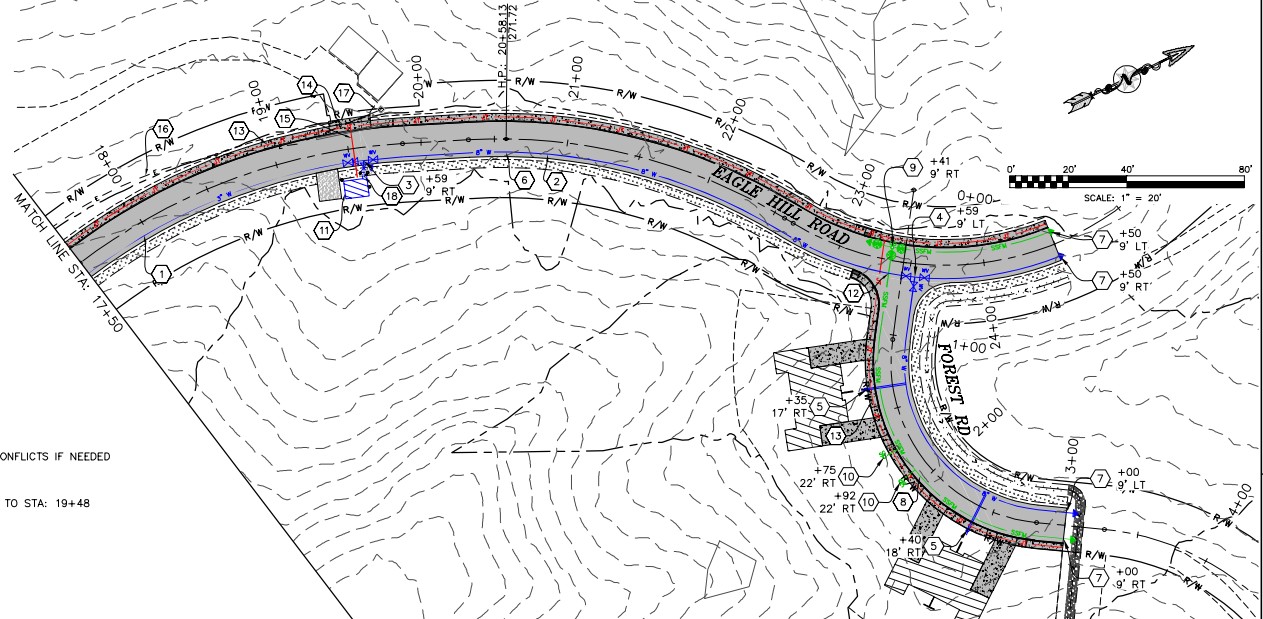
PROJ. 60415
SHT. 6



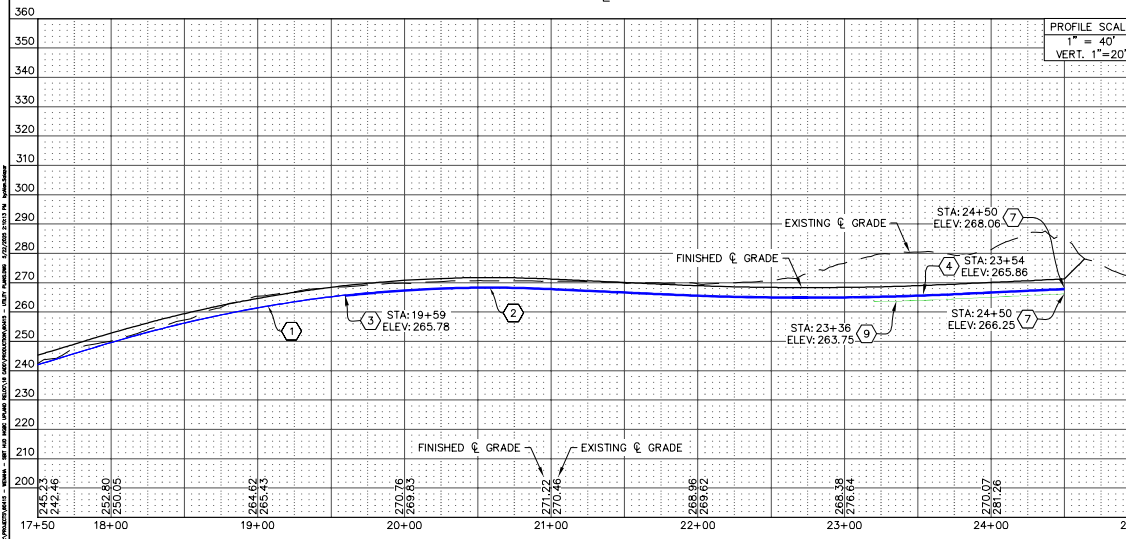




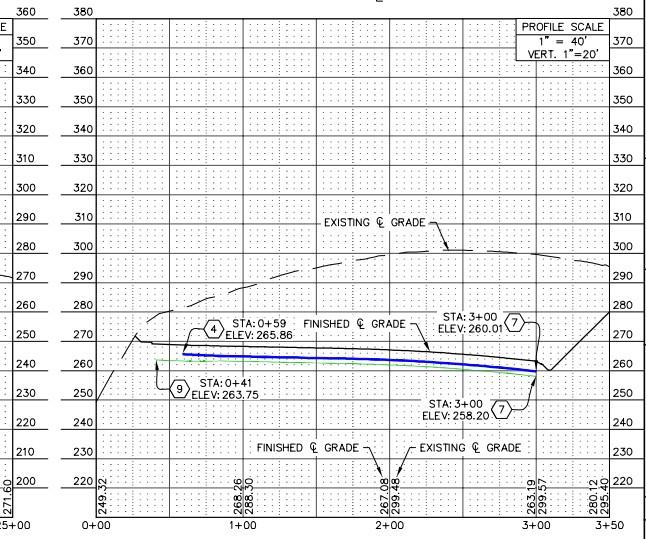
- 1 INSTALL 3 INCH HDPE WATER LINE W/ 3' MIN. COVER TYP.
- 2 INSTALL 8 INCH HDPE WATER MAIN W/ 3' MIN. COVER TYP.
- 3 INSTALL:
 - (1) 8" HDPE TEE
 - (2) 8" HDPE GATE VALVE
 SOUTH BRANCH OF TEE INSTALL:
 - (1) 8" X 3" HDPE REDUCER CONCENTRIC
 - (1) 3" HDPE GATE VALVE
- 4 INSTALL:
 - (1) 8" HDPE TEE
 - (3) 8" HDPE GATE VALVES
- 5 INSTALL 2" SERVICE PER DETAIL SHT. 22
- 6 INSTALL AIR RELEASE VALVE PER DETAIL SHT. 14, AT LOCAL HIGH POINT
- 7 INSTALL HDPE CAP W/ END MARKER PER DETAIL SHT. 22
- 8 INSTALL 3" SANITARY SEWER FORCE MAIN W/ 5.17' MIN COVER TYP. REFER TO SEPARATION DETAIL, SHT. 23 FOR MIN. CLEARANCE
- 9 INSTALL:
 - (1) 3" HDPE TEE
 - (1) CLEANOUT
 - (2) 3" HDPE GATE VALVE
 SOUTH BRANCH OF TEE INSTALL:
 - (1) 3" HDPE GATE VALVE
 - (1) 3" HDPE CAP
- 10 INSTALL SERVICE CONNECTION PER DETAIL SHT. 23
- 11 PROPOSED PUMP HOUSE LOCATION
- 12 REFER TO HDPE FUSED CROSSING DETAIL SHT. 22 TO AVOID CROSSING UTILITY CONFLICTS IF NEEDED
- 13 INSTALL JOINT TRENCH
- 14 REMOVE AND RELOCATE EXISTING ELECTRICAL LINE TO JOINT TRENCH STA: 7+24 TO STA: 19+48 CONTRACTOR TO COORDINATE WITH GHPUD
- 15 INSTALL ELECTRICAL LINE TO PROPOSED PUMP HOUSE
- 16 EXISTING ELECTRICAL LINE
- 17 EXISTING TRANSFORMER
- 18 EXISTING WELL



RAISE LOOP & PROFILE



FOREST ROAD & PROFILE



PRELIMINARY ONLY

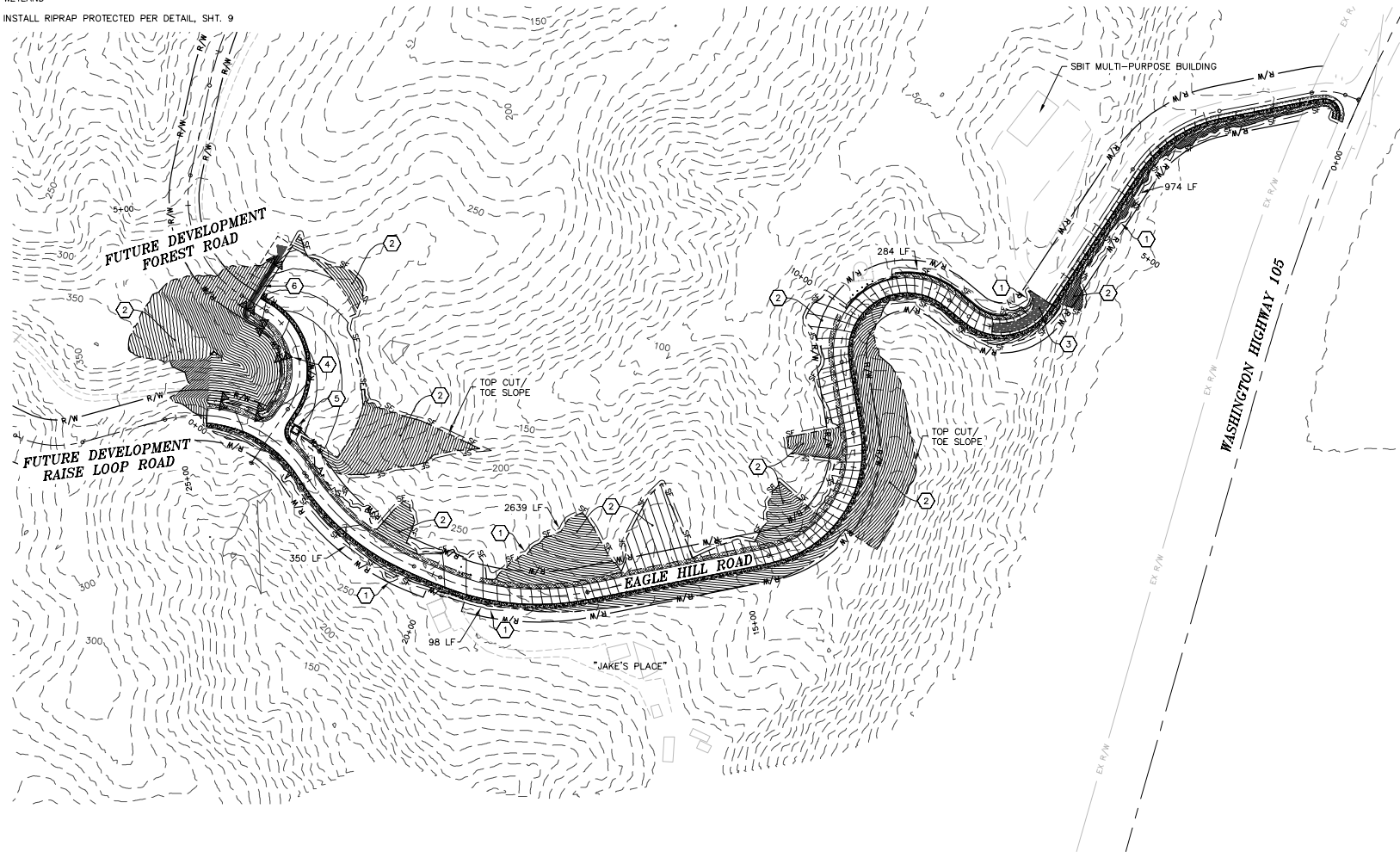
RED PLAINS
PROFESSIONAL ENGINEERING • GIS • PLANNING • CONSTRUCTION MANAGEMENT

RED PLAINS PROFESSIONAL, INC.
2103 N. 12TH STREET
VANCOUVER, WA 98666
TEL: (360) 448-7999
FAX: (360) 258-0274
www.red-planes.com

NO.	DATE	DESCRIPTION

PROJ. 60415
SHT. 11

-

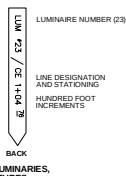
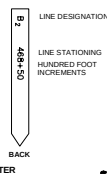


SBIT HUD/INGBC
SHOALWATER BAY TRIBE
TOKELAND, WA
EROSION CONTROL PLAN



RED PLAINS PROFESSIONAL, INC.
2103 NE 129TH STREET
SUITE 201
VANCOUVER, WA 98686
TEL: (360) 448-7999
FAX: (360) 258-0274
www.red-plains.com

[illegible]

[illegible]STAKE FOR FOUNDATION OF LUMINARIES,
SIGNALS OR SIGN STRUCTURES

STAKE FOR CURB/GUTTER

STANDARD PLAN A-10,10-00

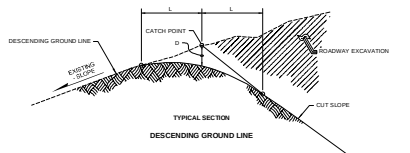
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

Peace Bakoff III **08-07-07**

DATE

Washington State Department of Transportation



NOTES

1. Slope treatment shall be constructed simultaneously with the roadway excavation. Hand trimming will not be required if satisfactory results are obtained with mechanical equipment.
2. Slope treatment is used to provide a transition between the existing ground and the cut slope. The intended purpose is to eliminate the abrupt edge and give the area a more natural appearance. The dimensions shown are approximate and can vary to achieve this purpose.

CUT SLOPE (H:V)	GROUND LINE (H:V)	CLASS A CLASS	
		L = 10.0	L = 5.0
1:1	+2.5	0.5	◇
	+2.5	1.0	◇
	+2.5	1.0	◇
	+6.5	1.2	◇
	± LEVEL	2.0	0.8
	-6.5	2.2	1.0
2:1	+2.5	0.5	◇
	+2.5	1.0	◇
	+2.5	1.0	◇
	+6.5	1.2	◇
	± LEVEL	2.0	0.8
	-6.5	2.2	1.0
3:1	+2.5	0.5	◇
	+2.5	1.0	◇
	+2.5	1.0	◇
	+6.5	1.2	◇
	± LEVEL	2.0	0.8
	-6.5	2.2	1.0
4:1	+2.5	0.5	◇
	+2.5	1.0	◇
	+2.5	1.0	◇
	+6.5	1.2	◇
	± LEVEL	2.0	0.8
	-6.5	2.2	1.0
5:1	+2.5	0.5	◇
	+2.5	1.0	◇
	+2.5	1.0	◇
	+6.5	1.2	◇
	± LEVEL	2.0	0.8
	-6.5	2.2	1.0

SLOPE TREATMENT
STANDARD PLAN A-20.10-00

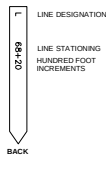
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Peace Rakofich III 08-31-07

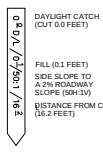
STATE DESIGN ENGINEER DATE

 Washington State Department of Transportation



SLOPE STAKE

STAKE AT EACH FULL STATION,
100 FEET ON TANGENTS,
EVERY 25 FEET ON CURVES.
NO HUB NECESSARY.

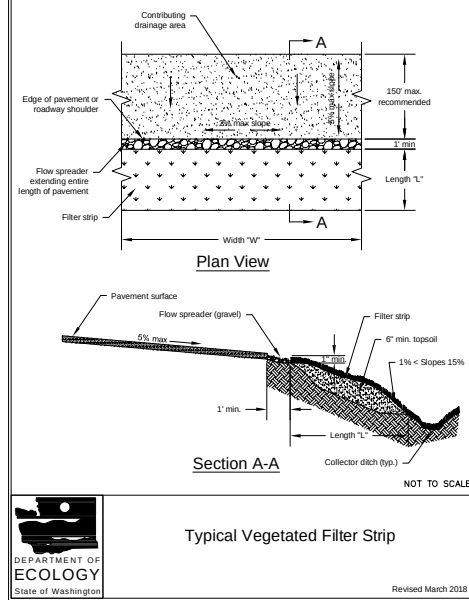


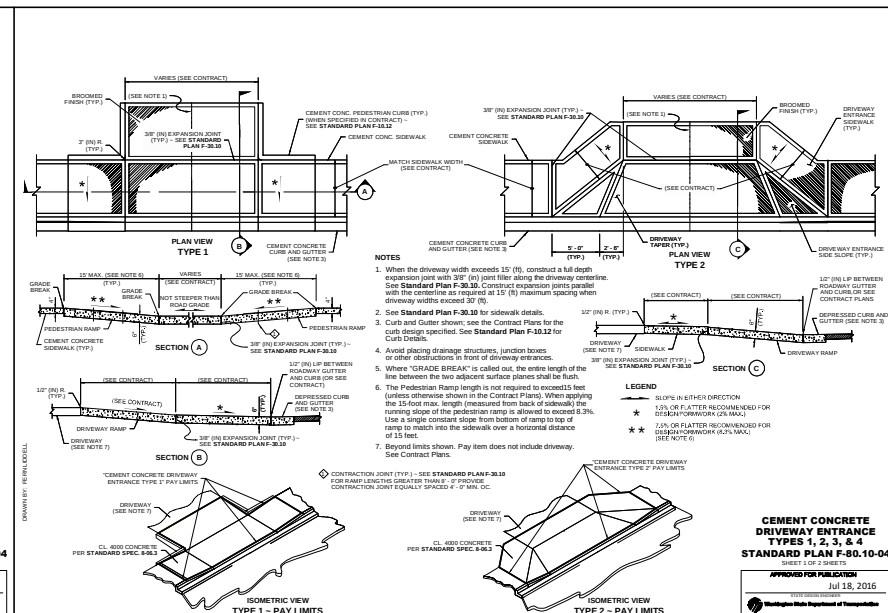
SLOPE TREATMENT (ST) STAKE
FOR CUT SECTIONS

DAYLIGHT (D/L) STAKE

STANDARD PLAN A-20.10-00

SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Paseo Bakofich III 08-07-07
DATE
Washington State Department of Transportation





C:\PROJETS\06415 -- REMOVA -- SPT HUD H2B2C UPLAND RELON\18 CAGOV\PRODUCTION\06415 -- BSCOT DETAILS.DWG 5/22/2025 2:10:58 PM by Alan.Solomon

[illegible]

