

# LANGLOIS CREEK CULVERT REPLACEMENTS SNOQUALMIE VALLEY TRAIL CROSSING CULVERTS # 101SC-07 AND # 933063

PARCEL #S: 2125079031 & 2125079028

## SHEET INDEX

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## GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE CONTINUOUS STREAM DIVERSION AND DEWATERING IN ACCORDANCE WITH THE PLANS, SPECS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL INSTALL A TEMPORARY STREAM DIVERSION SYSTEM BEFORE COMMENCING WORK BELOW THE ORDINARY HIGH WATER MARK OF LANGLOIS CREEK.
- ALL WORK BELOW THE ORDINARY HIGH WATER ELEVATION SHALL BE COMPLETED DURING THE IN-WATER WORK PERIOD SPECIFIED BY PERMIT CONDITIONS.
- THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND SHALL ADOPT THE PROVIDED TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESC) OR PREPARE AN ALTERNATIVE.
- ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE UPON COMPLETION OF THE PROJECT AND TAKEN TO A PERMITTED FACILITY.
- IF AREAS OR FEATURES OUTSIDE DESIGNATED CONSTRUCTION ZONES SUSTAIN IMPACT FROM CONTRACTOR ACTIVITIES, CONTRACTOR SHALL RESTORE TO PRE-CONSTRUCTION CONDITION.
- HORIZONTAL SURVEY DATUM IS LOCAL. VERTICAL DATUM IS NAVD88. SURVEY PERFORMED BY HARMSEN LLC ON 01/30/2020.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- THE CONCRETE BOX CULVERTS, WINGWALLS, AND HEADWALLS ARE TO BE PRE-PURCHASED BY THE SNOQUALMIE VALLEY WATERSHED IMPROVEMENT DISTRICT. SEE THE PROJECT CONTRACT SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING WING WALL DRAINAGE PER OLDCASTLE SHOP DRAWINGS AND WILL UTILIZE GRAVEL BACKFILL FOR DRAINS AND GEOTEXTILE FOR UNDERGROUND DRAINAGE CLASS A. SEE GEOTECHNICAL REPORT FOR SOIL PRESSURE AND BEARING REQUIREMENTS.
- PROVIDE TEMPORARY SECURITY FENCE ON BOTH TRAIL APPROACHES PRIOR TO EXCAVATION TO SECURE JOB SITE. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROJECT SNOQUALMIE VALLEY TRAIL (SVT) CLOSURE PLAN DEVELOPED BY OTHERS AS PART OF THIS CONTRACT.
- CONTRACTOR SHALL SUBMIT TEMPORARY DEWATERING, SHORING, AND EXCAVATION PLAN FOR APPROVAL BY ENGINEER PRIOR TO GROUND DISTURBANCE.
- THESE PLANS HAVE BEEN PREPARED FOR THE EXCLUSIVE USE OF THE SNOQUALMIE VALLEY WATERSHED IMPROVEMENT DISTRICT AND THEIR AUTHORIZED REPRESENTATIVES, HEREAFTER REFERRED TO AS "OWNER" OR "CONTRACTING OFFICER" OR "OWNER'S REPRESENTATIVE". THE CONTRACTOR OR THEIR SUBCONTRACTOR, IS THE PARTY SELECTED TO CONSTRUCT THE PROJECT.
- ENVIRONMENTAL SCIENCE ASSOCIATES (ESA), HEREAFTER REFERRED TO AS "ENGINEER" IS RESPONSIBLE FOR THE PREPARATION OF THESE ORIGINAL PLANS AND ASSOCIATED SPECIFICATIONS, AND WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGE OR USE OF THESE PLANS WHICH INCLUDES ALTERATION, DELETION, OR EDITING OF THIS DOCUMENT WITHOUT EXPLICIT WRITTEN PERMISSION FROM THE ENGINEER. ANY OTHER UNAUTHORIZED USE OF THIS DOCUMENT IS PROHIBITED.

## LEGEND

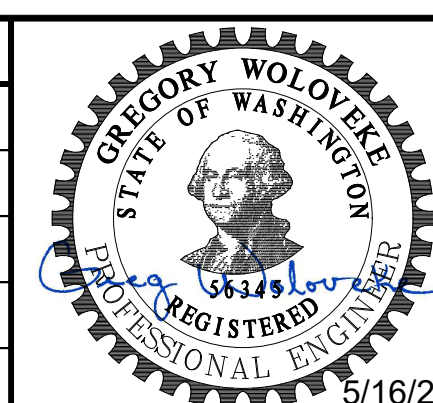
	LIMIT OF WORK		ORDINARY HIGH WATER
	ACCESS ROUTE		LIMIT OF EXCAVATION/GRADING
	PROPERTY LINE		EXISTING TREE
	ROAD/TRAIL CENTERLINE		WATTLE
	OVERHEAD LINES		HIGH VISIBILITY FENCE
	EXISTING PAVEMENT		SILT FENCE
	PROPOSED PAVEMENT		CLEARING AND GRUBBING LIMIT
	EXISTING GRAVEL		FISH EXCLUSION NETTING
	PROPOSED GRAVEL		DIVERSION PIPE
	EXISTING CULVERT		STAGING AREA
	EXISTING MAJOR CONTOUR		STREAM CENTERLINE
	EXISTING MINOR CONTOUR		EDGE OF VEGETATION
	PROPOSED MAJOR CONTOUR		CONTROL POINT
	PROPOSED MINOR CONTOUR		EXISTING WETLAND
	PROPOSED STREAM ALIGNMENT		TREE DRIP LINE
	EDGE OF TRAIL		EXISTING WATERLINE
	PROPOSED GUARDRAIL		EXISTING FIBER OPTIC CABLE
	EXISTING UNDERGROUND POWER LINE		EXISTING FENCE

## UTILITIES NOTES

- BURIED UTILITIES ARE PRESENT ON THE SITE AND MAY NOT BE NOTED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING OR RESTORING ALL UTILITIES.
- ALL EXISTING UTILITY LOCATIONS AND DESCRIPTIONS SHOWN ON PLANS HAVE BEEN COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATION AND DEPTH OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION ZONE PRIOR TO BEGINNING CONSTRUCTION AND COORDINATION WITH UTILITY OWNERS TO PROTECT IN PLACE OR RESTORE UPON COMPLETION.
- CULVERT 101SC-07: BURIED FIBER OPTIC CABLE UNDER THE TRAIL. KING COUNTY PARKS REPORTS NO OTHER KNOWN UTILITIES. SEE FIBER OPTIC CABLE PROTECTION NOTES ON SVT-03.
- CULVERT 933063: OVERHEAD POWER TRANSMISSION AND DISTRIBUTION LINES ARE PRESENT. MAINTAIN 10' MINIMUM CLEARANCE BETWEEN TRANSMISSION LINES AND ALL CONSTRUCTION ACTIVITY, EQUIPMENT, AND MATERIALS. BURIED 4" WATER LINE. PUGET SOUND ENERGY (PSE) REPORTS NO KNOWN BURIED POWER OR GAS.
- CONTRACTOR SHALL COORDINATE WITH THE LANDOWNER TO IDENTIFY FARMSTEAD UTILITIES ON SITE. THE LANDOWNER ASSUMES RESPONSIBILITY FOR THE IDENTIFICATION AND NOTIFICATION TO THE CONTRACTOR OF ALL FARMSTEAD OPERATION UTILITIES THAT ARE NOT THE TRADITIONAL SERVICE UTILITIES PROVIDED BY A THIRD PARTY. TYPICAL FARMSTEAD UTILITIES INCLUDE: WELLS, WATER CONVEYANCE PIPELINES, SEPTIC SYSTEMS, DRAIN TILE AND ALL OTHER UTILITIES INSTALLED BY THE FARM OPERATION.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, EASEMENTS, ACCESS, AND COORDINATION REQUIRED FOR TEMPORARY RELOCATION OF UTILITIES.

## FINAL DESIGN

SNOQUALMIE VALLEY TRAIL			PROJECT MANAGER: AMF				DESIGN TEAM	
PROJECT #	DATE	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
ISSUED	GLW	5/16/2024					STRUCT.	N/A
APPROVED	GLW	5/16/2024					CIVIL	GLW, P.E.
REVIEWED							L.ARCH	ABG, P.L.A.
DRAWN	AMF	5/16/2024					ENG.	



**King County**  
Department of Natural Resources and Parks  
Parks and Recreation Division  
Capital Projects Section  
201 S. Jackson St., Suite 700, Seattle, WA 98104  
Christie True, Director

LANGLOIS CREEK CULVERT REPLACEMENTS  
SNOQUALMIE VALLEY TRAIL CROSSING  
32610 NE 32ND ST  
CARNATION, WA 98014

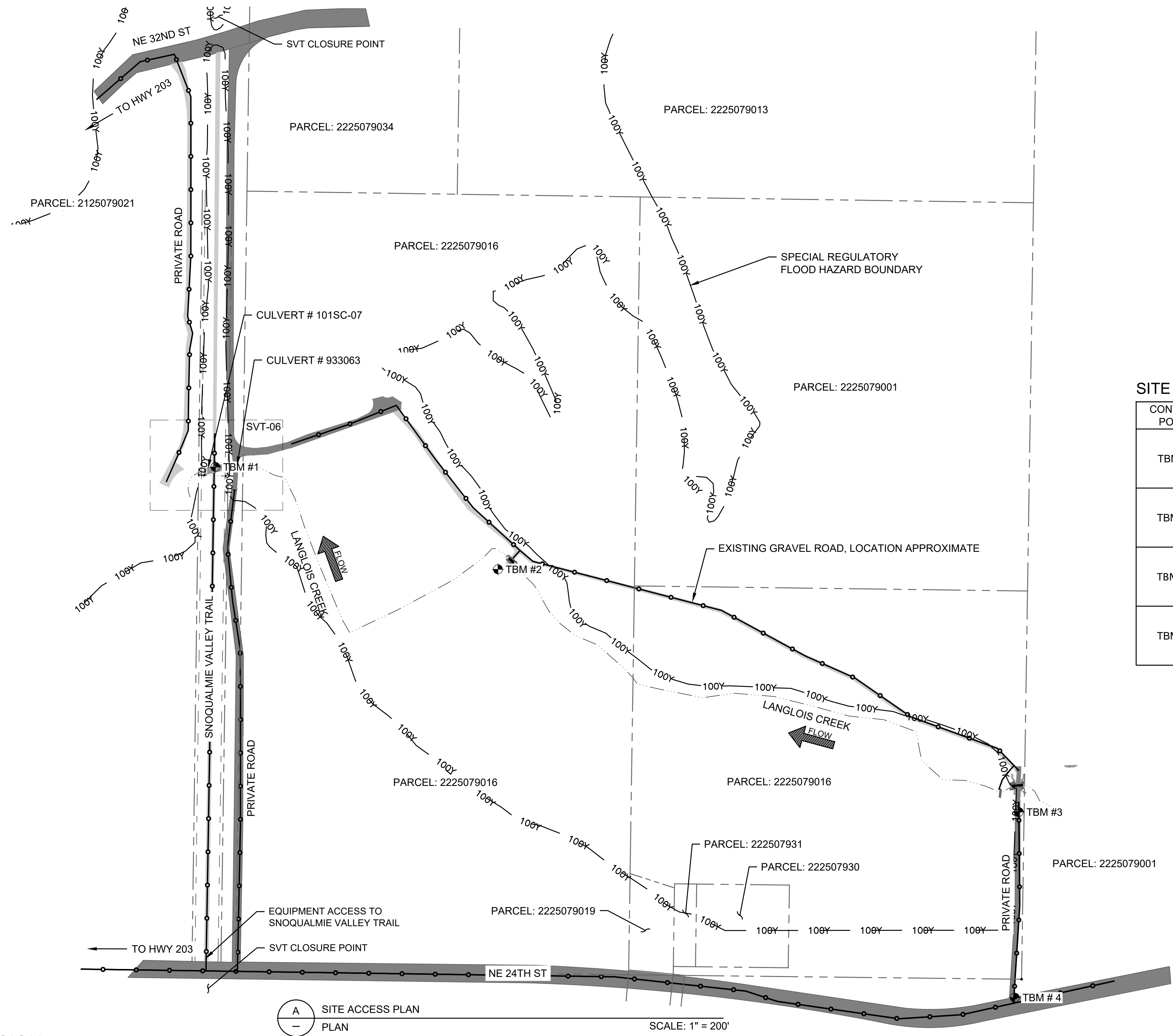
COVER SHEET



KNOW WHAT'S BELOW.  
CALL 2 BUSINESS DAYS  
BEFORE YOU DIG.  
(UTILITY LOCATIONS ARE APPROX.)

SHEET  
1  
OF  
10  
SHEETS  
SVT-01





**NOTES**

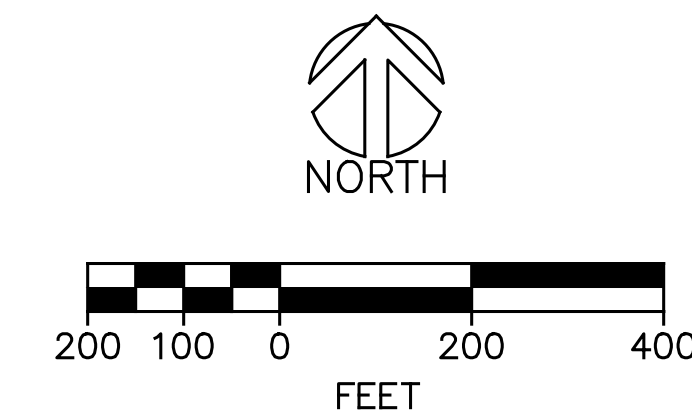
1. EQUIPMENT ACCESS ONTO THE SNOQUALMIE VALLEY TRAIL (SVT) SHALL BE VIA THE AT GRADE CONNECTION AT NE 24TH STREET.
2. OVERHEAD POWER LINES PARALLEL THE ACCESS ROUTE ON THE PAVED PRIVATE ROAD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL ON NE 32ND AND NE 24TH STREETS AND OBTAINING ALL RIGHT-OF-WAY PERMISSIONS IF REQUIRED.
4. ALL PRIVATE ROADS AND THE SNOQUALMIE VALLEY TRAIL MAY BE FULLY CLOSED FOR THE DURATION OF CONSTRUCTION. KING COUNTY PARKS WILL DEVELOP A TRAIL DETOUR ROUTE. THE CONTRACTOR WILL RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL TRAFFIC CONTROL, DETOUR, AND WARNING SIGNAGE INCLUDED IN THE TRAIL CLOSURE PLAN.
5. HORIZONTAL SURVEY DATUM IS LOCAL. VERTICAL SURVEY DATUM IS NAVD 88.
6. CONTRACTOR RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ACCESS ROUTES TO PRE-CONSTRUCTION CONDITION.

**SITE SURVEY CONTROL**

CONTROL POINT	N	E	ELEVATION	DESC	DIRECTIONS
TBM #1	561370.33	1703764.65	98.11	MAGNETIC NAIL	1' WEST OF EAST EDGE OF PAVEMENT OF SNOQUALMIE VALLEY TRAIL 25' SOUTH OF CENTER OF CULVERTS CROSSING 101SC-07.
TBM #2	561024.22	1704721.29	81.02	REBAR WITH RED PLASTIC CAP	N NW SIDE OF DRIVEWAY 53'+/- SOUTH WESTERLY OF WEST BANK DOWNSTREAM SIDE CULVERT CROSSING 933062, AND 25' NORTHERLY CORNER OF WOOD FENCE.
TBM #3	560201.89	1706484.74	98.67	MAGNETIC NAIL	INTERSECTION OF DRIVEWAY #32418 AND THE ACCESS ROAD, 90' SOUTH OF CULVERT CROSSING 933064 & 62' @ S20°E OF TRANSFORMER ON PAD.
TBM #4	559574.61	1706473.09	114.34	MAGNETIC NAIL	CENTER OF DRIVEWAY APRON AT HOUSE #32418 ON NE 24TH ST. AT ROAD EDGE.

(A) SITE ACCESS PLAN  
 — PLAN

SCALE: 1" = 200'



**811**  
 KNOW WHAT'S BELOW.  
 CALL 2 BUSINESS DAYS  
 BEFORE YOU DIG.  
 (UTILITY LOCATIONS ARE APPROX.)

**FINAL DESIGN**

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PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
ISSUED	GLW	5/16/2024				STRUCT.	N/A	
APPROVED	GLW	5/16/2024				CIVIL	GLW, P.E.	
REVIEWED						L.ARCH	ABG, P.L.A.	
DRAWN	AMF	5/16/2024				ENG.		

**FOR INFORMATIONAL PURPOSES ONLY**

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*Christie True, Director*

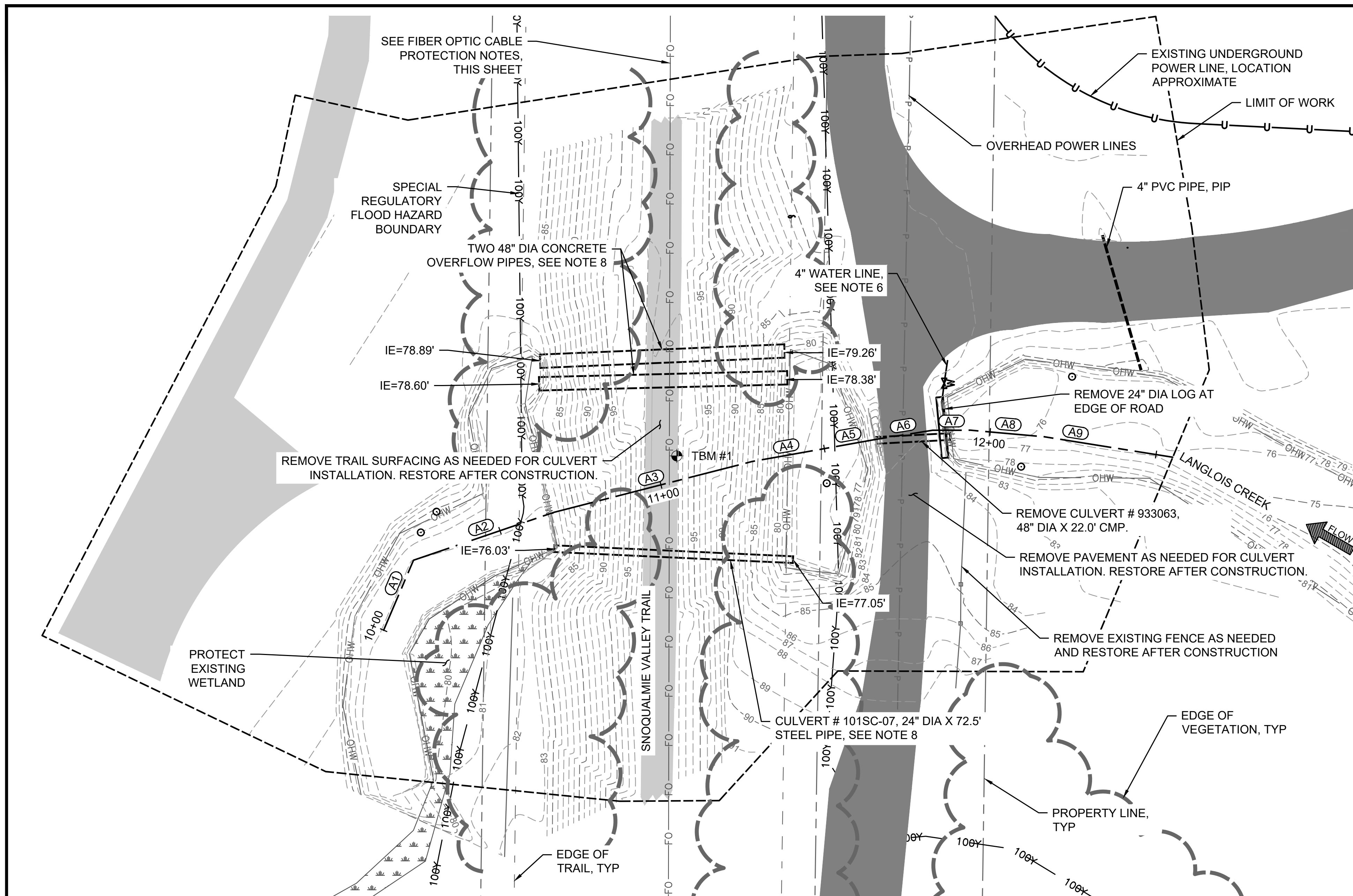
**LANGLOIS CREEK CULVERT REPLACEMENTS**  
 SNOQUALMIE VALLEY TRAIL CROSSING  
 32610 NE 32ND ST  
 CARNATION, WA 98014

**SNOQUALMIE VALLEY Watershed Improvement District**

**SITE ACCESS PLAN & SITE SURVEY CONTROL**

SHEET 2 OF 10 SHEETS  
 SVT-02





**NOTES**

1. SEE SHEET SVT-02 FOR SITE SURVEY CONTROL.
2. DUE TO HIGH WATER CONDITIONS AT THE TIME OF SURVEY, THE DEEPEST PORTION (THALWEG) OF THE STREAM CHANNEL MAY NOT BE CAPTURED IN SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION.
3. TREE REMOVAL MAY BE REQUIRED. FLAG TREES TO BE REMOVED FOR APPROVAL BY ENGINEER.
4. THE CONTRACTOR SHALL SECURE JOB SITE BY PROVIDING TEMPORARY SECURITY FENCES ON BOTH TRAIL APPROACHES PRIOR TO EXCAVATION/GRADING LIMITS.
5. KING COUNTY PARKS DOES NOT GUARANTEE THE LOCATION OF OTHER UNKNOWN UTILITIES ALONG THE SVT. THE CONTRACTOR WILL CONDUCT PUBLIC AND PRIVATE LOCATES PRIOR TO EXCAVATION AND COORDINATE ALL WORK WITH THE UTILITY IN CONFLICT.
6. A PRIVATE 4" WATER LINE CROSSES THE ROAD AND CONTINUES EAST ALONG THE FENCELINE. RESTORE AFTER CONSTRUCTION. CONTRACTOR TO COORDINATE SHUT OFF AND RESTORATION OF THE WATERLINE WITH OWNER.
7. VIF: VERIFY IN FIELD.
8. EXISTING CULVERT & PIPES BENEATH THE SNOQUALMIE VALLEY TRAIL (SVT) SHALL BE REMOVED IF THEY ARE WITHIN THE CONTRACTOR'S ZONE OF EXCAVATION. FOR PORTIONS THAT ARE NOT WITHIN EXCAVATION ZONE, REMAINING PIPES SHALL BE PLUGGED PER WSDOT STD. SPEC 7-08.3(4). THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF EXISTING STEEL CULVERT IS TO REMAIN AND THE ENGINEER WILL DETERMINE THE EXTENT OF THE PLUGS NEEDED BASED ON THE CONDITION OF THE PIPE.
9. THE CONTRACTOR SHALL REPLACE ALL FENCING MOVED OR DAMAGED DURING CONSTRUCTION IN KIND.

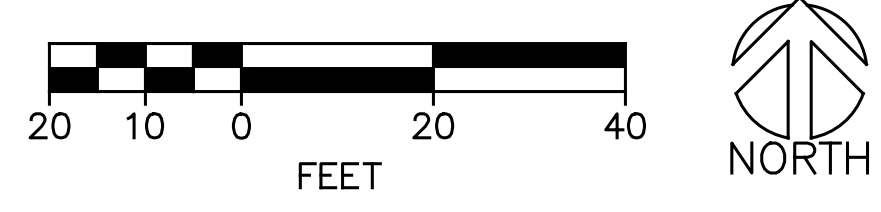
**FIBER OPTIC CABLE PROTECTION NOTES**

1. CONTRACTOR SHALL COORDINATE SCHEDULE AND CONSTRUCTION ACTIVITIES WITH AT&T'S ENGINEER PRIOR TO EXCAVATION TO ENSURE FIBER OPTIC CABLE IS PROTECTED IN PLACE FOR DURATION OF PROJECT, AND COORDINATE DURING EMBANKMENT RECONSTRUCTION TO ALLOW FOR REMOVAL OF TEMPORARY SUPPORT SYSTEM WHEN BACKFILL REACHES HEIGHT OF CABLE.
2. AT&T WILL EXCAVATE A TRENCH OVER CABLE, INSTALL CONCRETE ANCHOR BLOCKS AND STEEL CABLE TEMPORARY SUPPORT SYSTEM FOR THE FIBER OPTIC CABLE DURING THE CULVERT CONSTRUCTION, AND REMOVE THE SYSTEM DURING TRAIL BERM RECONSTRUCTION.
3. INSTALLATION AND REMOVAL OF THE TEMPORARY FIBER OPTIC CABLE SUPPORT SYSTEM IS BY OTHERS.
4. CONTACT AT&T'S ENGINEER DEPARTMENT:  
 A. ED BURTON, MANAGER OF WEST COAST OPERATIONS, SIENA ENGINEERING GROUP, INC. 978-430-3252  
 B. LOUIE VANHOLLEBEKE, PROJECT MANAGER, SIENA ENGINEERING GROUP, INC. AT 425-896-9850

ALIGNMENT CONTROL TABLE					
SEGMENT	BEGIN STATION	BEGIN EASTING	BEGIN NORTHING	LINE BEARING	LINE DISTANCE
A1	10+00	1,703,677.3	561,318.3	N23° 06' 51"E	22.7
A2	10+23	1,703,686.2	561,339.2	N71° 10' 19"E	44.4
A3	10+67	1,703,728.2	561,353.5	N75° 37' 02"E	61.0
A4	11+28	1,703,787.3	561,368.7	N79° 54' 24"E	21.5
A5	11+50	1,703,808.5	561,372.4	N79° 48' 05"E	16.1
A6	11+66	1,703,824.4	561,375.3	N80° 54' 47"E	17.0
A7	11+83	1,703,841.2	561,378.0	N89° 54' 32"E	11.3
A8	11+94	1,703,852.5	561,378.0	S84° 54' 33"E	22.1
A9	12+16	1,703,874.5	561,376.0	S80° 57' 28"E	38.8

(A) CULVERT # 101SC-07 EXISTING CONDITIONS AND DEMOLITION  
 PLAN

SCALE: 1" = 20'



**FINAL DESIGN**

SNOQUALMIE VALLEY TRAIL		PROJECT MANAGER: AMF				DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A
D191001.00	5/16/2024					STRUCT.	N/A
ISSUED	GLW					CIVIL	GLW, P.E.
APPROVED	GLW					L.ARCH	ABG, P.L.A.
REVIEWED						ENG.	
DRAWN	AMF						



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**LANGLOIS CREEK CULVERT REPLACEMENTS**  
 SNOQUALMIE VALLEY TRAIL CROSSING  
 32610 NE 32ND ST  
 CARNATION, WA 98014  
**EXISTING CONDITIONS, DEMOLITION, & ALIGNMENT**

SHEET  
 3  
 OF  
 10  
 SHEETS  
 SVT-03

**811**  
 KNOW WHAT'S BELOW.  
 CALL 2 BUSINESS DAYS  
 BEFORE YOU DIG.  
 (UTILITY LOCATIONS ARE APPROX.)



**ESC NOTES**

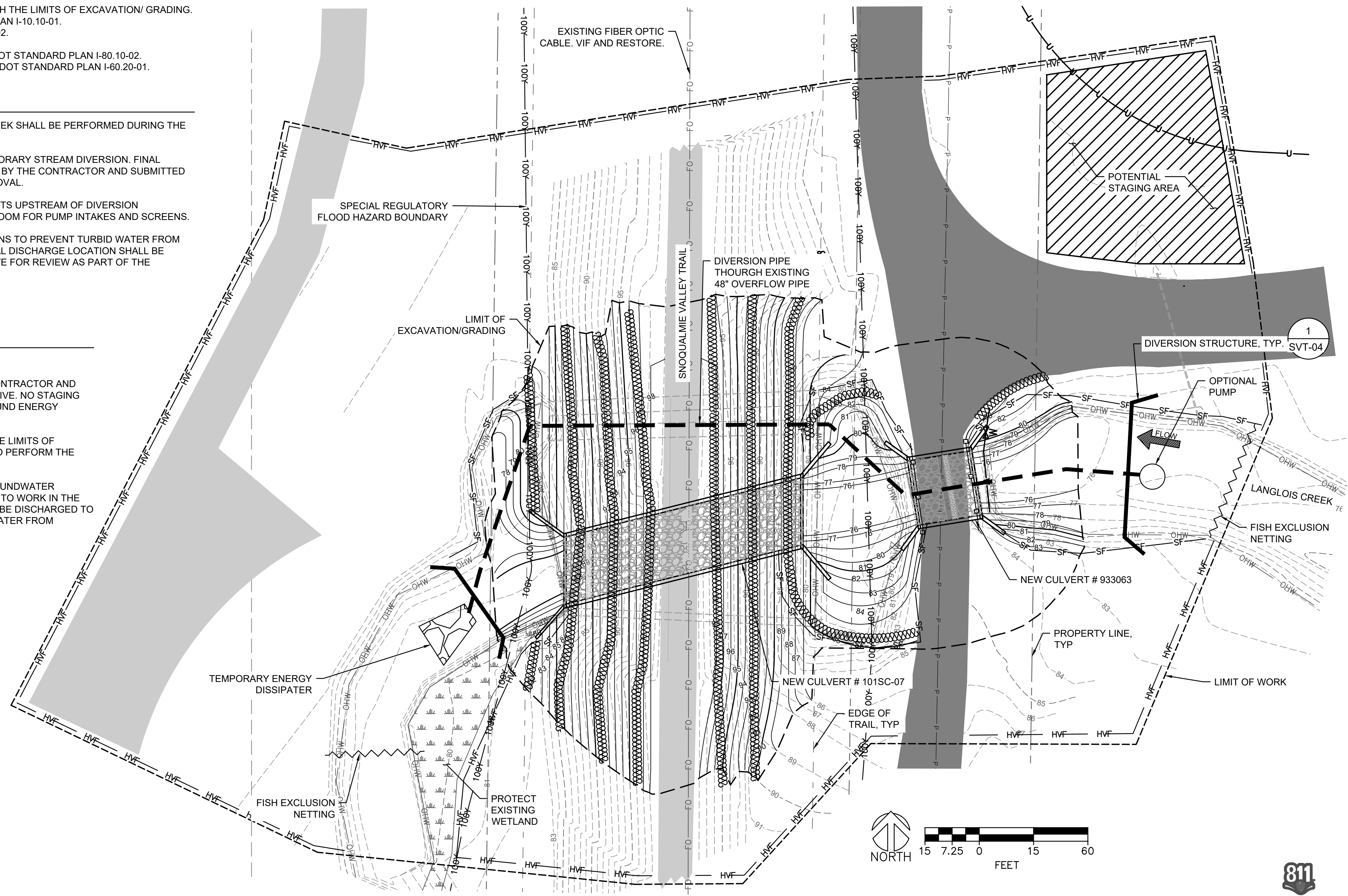
1. LIMITS OF CLEARING AND GRUBBING ARE COINCIDENT WITH THE LIMITS OF EXCAVATION/ GRADING.
2. INSTALL HIGH VISIBILITY FENCE PER WSDOT STANDARD PLAN I-10.10-01.
3. INSTALL SILT FENCE PER WSDOT STANDARD PLAN I-30.10-02.
4. INSTALL WATTLES PER WSDOT STANDARD PLAN I-30.30-02.
5. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STANDARD PLAN I-80.10-02.
6. INSTALL EROSION CONTROL BLANKET ON SLOPES PER WSDOT STANDARD PLAN I-60.20-01.

**STREAM DIVERSION NOTES**

1. ALL WORK BELOW THE OHW ELEVATION OF LANGLOIS CREEK SHALL BE PERFORMED DURING THE IN-WATER WORK PERIOD SPECIFIED BY PERMIT.
2. THE LAYOUT DEPICTS A POTENTIAL APPROACH FOR TEMPORARY STREAM DIVERSION. FINAL TEMPORARY STREAM DIVERSION PLAN TO BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER/OWNER'S REPRESENTATIVE FOR APPROVAL.
3. DEFISH THE WORK AREA AND INSTALL FISH EXCLUSION NETS UPSTREAM OF DIVERSION STRUCTURES PER SPECIFICATIONS. ALLOW SUFFICIENT ROOM FOR PUMP INTAKES AND SCREENS.
4. DEWATER WORK AREA TO UPLAND DEWATERING LOCATIONS TO PREVENT TURBID WATER FROM ENTERING LANGLOIS CREEK OR SITE WETLANDS. THE FINAL DISCHARGE LOCATION SHALL BE SUBMITTED TO THE ENGINEER / OWNER'S REPRESENTATIVE FOR REVIEW AS PART OF THE TEMPORARY STREAM DIVERSION PLAN.
5. STREAM DIVERSION MAY BE GRAVITY FLOW OR PUMPED.

**NOTES**

1. AVOID AND MINIMIZE IMPACTS TO THE WETLAND.
2. STAGING AREAS TO BE SELECTED IN THE FIELD BY THE CONTRACTOR AND COORDINATED WITH THE OWNER/OWNER'S REPRESENTATIVE. NO STAGING WITHIN THE OHW OF LANGLOIS CREEK OR THE PUGET SOUND ENERGY POWERLINE CORRIDOR .
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LIMITS OF EXCAVATION AND THE DESIGN OF SHORING AS-NEEDED TO PERFORM THE WORK.
4. THE CONTRACTOR SHALL ANTICIPATE THE NEED FOR GROUNDWATER DEWATERING THE CULVERT EXCAVATIONS OR MAY ELECT TO WORK IN THE WET (GROUNDWATER ONLY). DEWATERING WATER SHALL BE DISCHARGED TO UPLAND DEWATERING LOCATIONS TO PREVENT TURBID WATER FROM ENTERING LANGLOIS CREEK OR SITE WETLANDS.
4. VIF: VERIFY IN FIELD.



(A) CULVERT 101SC-07 AND 933063 TESC  
- PLAN

SCALE: 1:15

**811**  
KNOW WHAT'S BELOW.  
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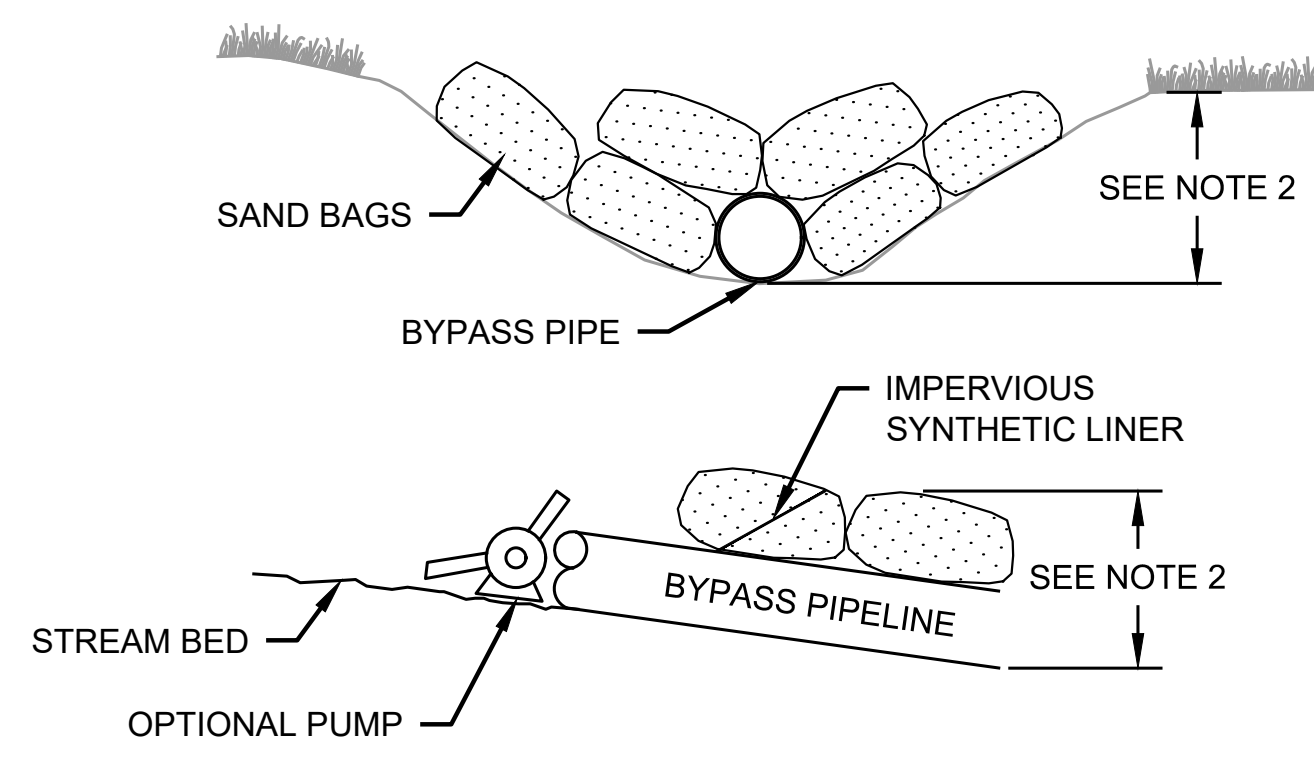
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**SNOQUALMIE VALLEY Watershed Improvement District**

SHEET  
4  
OF  
10  
SHEETS  
SVT-04

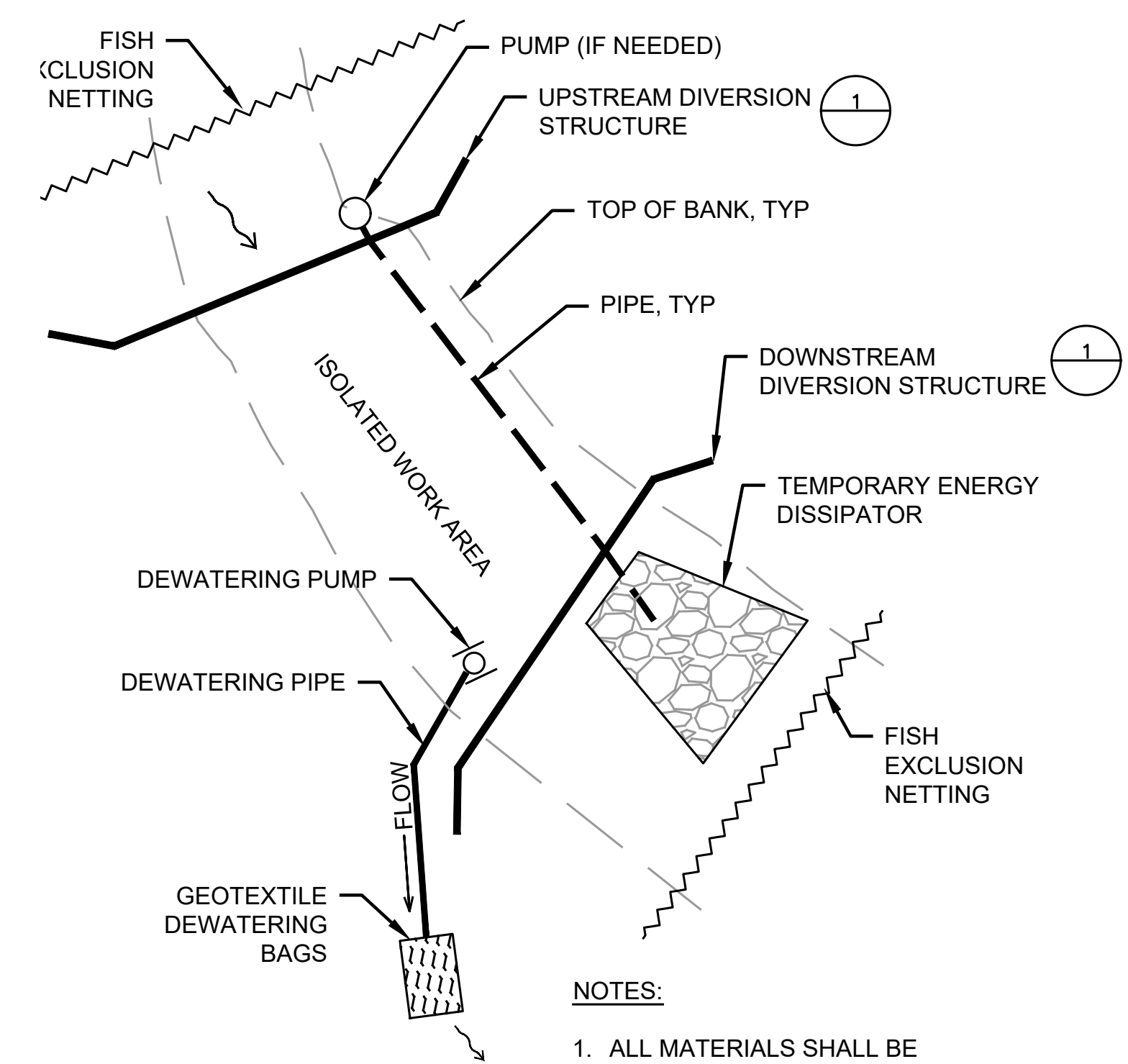
TESC & STREAM DIVERSION PLAN





- NOTES:**
1. THE CONTRACTOR SHALL NOT WORK DIRECTLY WITHIN LANGLOIS CREEK WITHOUT AN APPROVED TEMPORARY STREAM DIVERSION PLAN, PER SPECIAL PROVISION 7-06.
  2. THE HEIGHT OF THE DIVERSION STRUCTURES SHALL BE HIGH ENOUGH TO PREVENT OVERTOPPING AND ALLOW ENOUGH FREEBOARD FOR INCLEMENT WATER CONDITIONS. STRUCTURE HEIGHTS AND MATERIALS SHALL BE INCLUDED IN THE CONTRACTOR'S TEMPORARY STREAM DIVERSION PLAN.
  3. SEE SPECIAL PROVISION 7-06 FOR THE CONSTRUCTION PERIOD FLOW RATE AND DIVERSION REQUIREMENTS.

1  
-  
TEMPORARY STREAM DIVERSION STRUCTURE  
DETAIL NTS



- NOTES:**
1. ALL MATERIALS SHALL BE INCLUDED IN THE PAY ITEM 'TEMPORARY STREAM DIVERSION.'

2  
-  
TYPICAL WORK AREA DEWATERING  
DETAIL NTS

**FINAL DESIGN**

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D191001.00	5/16/2024					STRUCT.	N/A	
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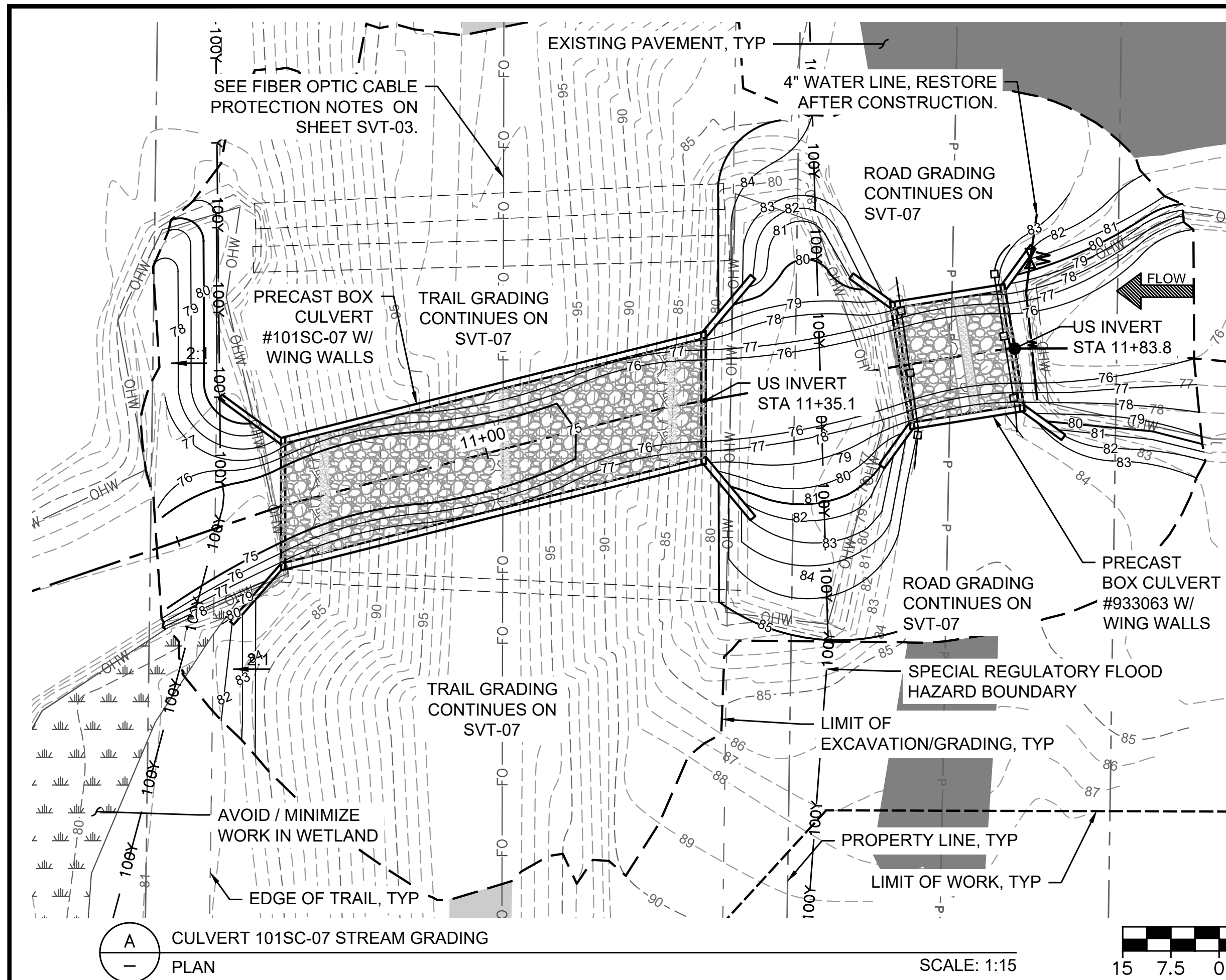
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STREAM DIVERSION DETAILS

SHEET  
 5  
 OF  
 10  
 SHEETS  
 SVT-05

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 KNOW WHAT'S BELOW.  
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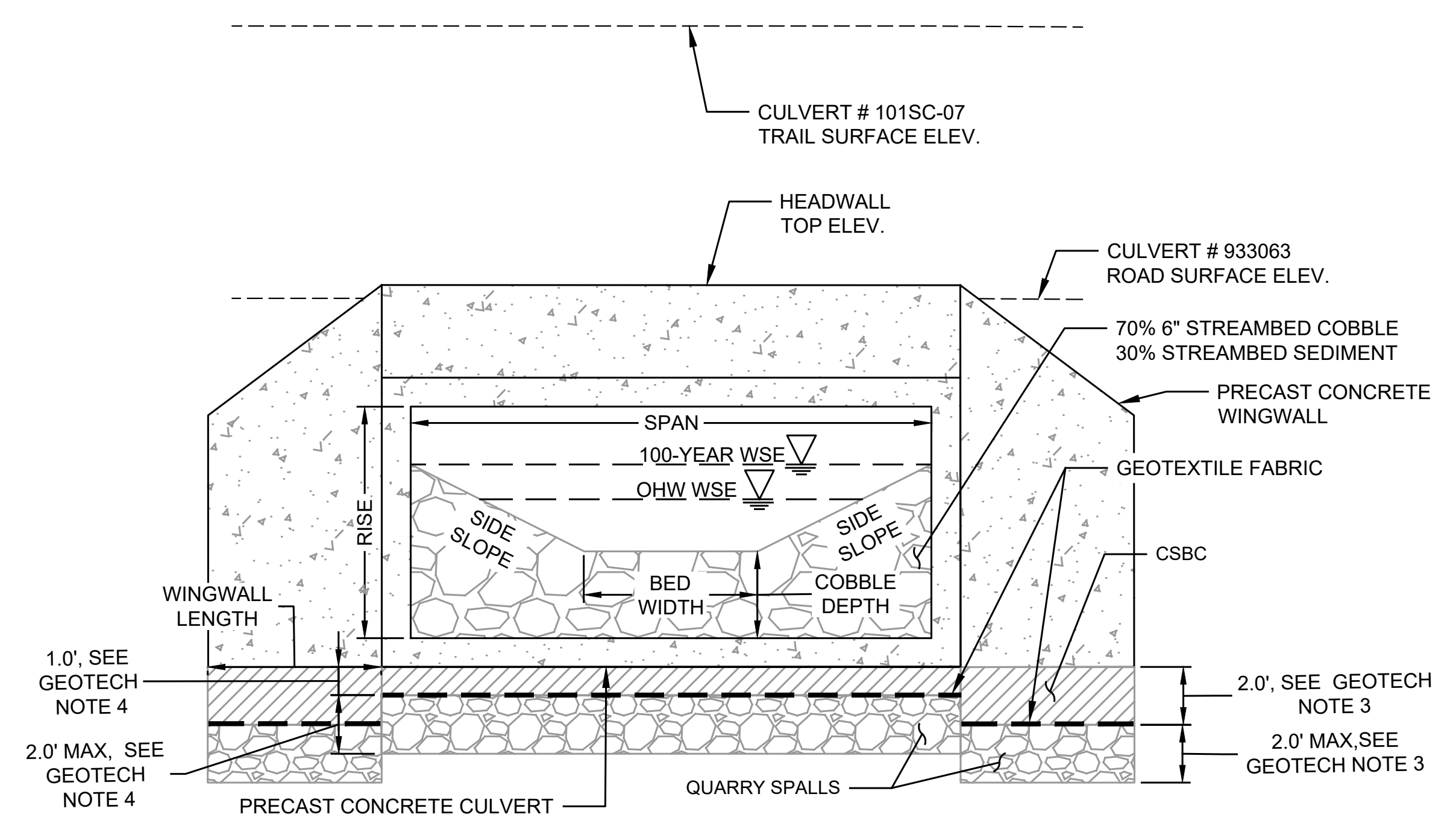
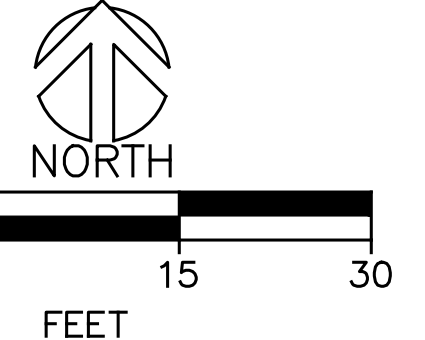




**CULVERT DESIGN TABLE**

	101SC-07	933063	UNIT
SPAN	18	18	FEET
RISE	10	10	FEET
LENGTH	68	18	FEET
CULVERT SLOPE	1.0	1.0	%
US EXISTING SLOPE	0.4	0.9	%
DS EXISTING SLOPE	0.1	0.4	%
US STATION @ INVERT	11+35.1	11+83.8	FEET
US INVERT ELEV.	71.7	71.6	FEET
US BED ELEV.	75.2	75.7	FEET
CHANNEL BED WIDTH	10.0	10.0	FEET
SIDE SLOPE	3H:2V	3H:2V	FT/FT
COBBLE DEPTH	3.5	4.1	FEET
TRAIL/ROAD SURFACE ELEV.	98.5	84.0	FEET
TRAIL/ROAD WIDTH	10.0	14.0	FEET
HEADWALL TOP ELEV.	86.0	84.3	FEET
L US WINGWALL ANGLE	25	45	DEGREES
L US WINGWALL LENGTH	12	8	FEET
R US WINGWALL ANGLE	55	45	DEGREES
R US WINGWALL LENGTH	12	8	FEET
L DS WINGWALL ANGLE	55	45	DEGREES
L DS WINGWALL LENGTH	12	8	FEET
R DS WINGWALL ANGLE	40	45	DEGREES
R DS WINGWALL LENGTH	12	8	FEET

NOTES:  
 1. DS = DOWNSTREAM. US = UPSTREAM. LEFT AND RIGHT ARE DETERMINED FACING DOWNSTREAM.  
 2. SEE SHEET SVT-03 FOR ALIGNMENT CONTROL TABLE.



1 TYPICAL CULVERT INLET & OUTLET SECTION NTS

- NOTES**
- THE OWNER HAS PRE-PURCHASED THE CULVERTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THEIR PICK-UP AND DELIVERY AS PART OF THE WORK.
  - LIMITS OF EXCAVATION MAY BE FIELD FIT AS NEEDED FOR CULVERT INSTALLATION.
  - FINAL GRADE MAY BE FIELD FIT WITH APPROVAL OF THE ENGINEER.
  - UNMAPPED UTILITIES MAY BE PRESENT IN THE LIMITS OF GRADING. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING, PROTECTING, OR RESTORING ALL UTILITIES.
  - INSTALL THREE PAIRS OF COARSE AND FINE BANDS IN CULVERT 101SC-07: ONE WITHIN 10 FEET OF THE INLET, ONE AT THE MIDPOINT, AND ONE WITHIN 10 FEET OF THE OUTLET. INSTALL A SINGLE PAIR OF COARSE AND FINE BANDS AT THE MIDPOINT OF CULVERT 933063.
  - THE PROPOSED STREAMBED MATERIAL SHALL CONSIST OF 70% 6" STREAMBED COBBLE OF THE SPECIFIED GRADATION MIXED WITH 30% STREAMBED SEDIMENT. INSTALLATION SHALL BE PER SPECIFICATION SECTION 8-30.
  - SEE SHEET SVT-07 FOR TRAIL GRADING AND IMPROVEMENT PLAN AND DETAILS.
  - OVERHEAD ELECTRICAL TRANSMISSION LINES ARE PRESENT. A MINIMUM OF 10 FEET OF SEPARATION FROM THESE LINES IS MANDATORY. FIELD ESTIMATIONS OF CLEARANCE ARE APPROXIMATELY 25 FEET. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND MAINTAINING THE REQUIRED 10 FEET OF SEPARATION.
  - PROVIDE TEMPORARY SECURITY FENCE ON BOTH TRAIL APPROACHES PRIOR TO EXCAVATION TO SECURE JOB SITE.

- GEOTECHNICAL NOTES**
- DUE TO SOIL CONDITIONS, OPEN CUT EXCAVATION IS ANTICIPATED RATHER THAN TRENCHING.
  - CONTRACTOR SHALL ANTICIPATE NEED FOR DEWATERING AND SUBMIT TEMPORARY DEWATERING, SHORING, AND EXCAVATION PLAN PER SPECIFICATIONS 2-10.
  - PREPARE WALL SUBGRADES BY EXCAVATING TWO FEET BELOW THE BASE OF WALL TO EXPOSE GRANULAR SUBGRADE SOILS. IF SOILS ARE UNSUITABLE AT THIS DEPTH, REMOVE UP TO TWO FEET OF ADDITIONAL SOIL OR PER GEOTECHNICAL ENGINEER'S APPROVAL. BACKFILL DEPTHS BELOW TWO FEET WITH 2 TO 4-INCH COMPACTED CRUSHED QUARRY SPALLS.
  - PREPARE CULVERT SUBGRADES BY EXCAVATING ONE FOOT BELOW THE CULVERT BASE. IF UNSUITABLE ORGANIC SOILS ARE ENCOUNTERED AT THIS DEPTH, REMOVE UP TO TWO FEET OF ADDITIONAL SOIL AND REPLACE WITH 2 TO 4-INCH COMPACTED CRUSHED QUARRY SPALLS.
  - AFTER WALL OR CULVERT SUBGRADE EXCAVATION AND APPROVAL, PLACE GEOTEXTILE FABRIC AT THE BASE OF EXCAVATION OR OVER QUARRY SPALLS. PLACE CRUSHED SURFACING BASE COURSE (CSBC) TO THE BASE OF WALL OR THE BASE OF CULVERT ELEVATION AND COMPACT TO 95 PERCENT OF ITS MAXIMUM DRY DENSITY. CSBC SHOULD MEET THE REQUIREMENTS OF WSDOT STANDARD SPECIFICATIONS. SECTION 9-03.9(3).
  - DEWATERING SHALL BE PERFORMED WITH THE USE OF SUMPS AND PUMPS. DURING DEWATERING, GROUND WATER SHALL BE MAINTAINED AT A LEVEL TWO FEET BELOW THE BASE OF EXCAVATION TO PREVENT LOOSENING OF SUBGRADE SOILS. MATERIAL USED TO CONSTRUCT CULVERT EMBANKMENTS AND AS PLACEMENT BEHIND WALLS SHALL CONSIST OF STRUCTURAL FILL AND SHALL BE COMPACTED TO 95 PERCENT OF IT MAXIMUM DRY DENSITY.
  - SAND AND GRAVEL MATERIAL REMOVED FROM THE SNOQUALMIE VALLEY TRAIL EMBANKMENT DURING EXCAVATION SHOULD BE STOCKPILED AND SEGREGATED FROM ORGANIC OR MOISTURE-SENSITIVE SOILS FOR REUSE AS STRUCTURAL FILL.
  - EXISTING ALLUVIAL SOILS WITH HIGH ORGANIC OR HIGH SILT CONTENT SHOULD BE USED IN LANDSCAPING AREAS ONLY AND ARE NOT SUITABLE FOR USE AS STRUCTURAL FILL.
  - IF IMPORT MATERIALS ARE NEEDED FOR STRUCTURAL FILL, THEY SHALL MEET THE REQUIREMENTS OF GRAVEL BORROW, PER WSDOT STANDARD SPECIFICATIONS, SECTION 9-03.14(1).

**FINAL DESIGN**

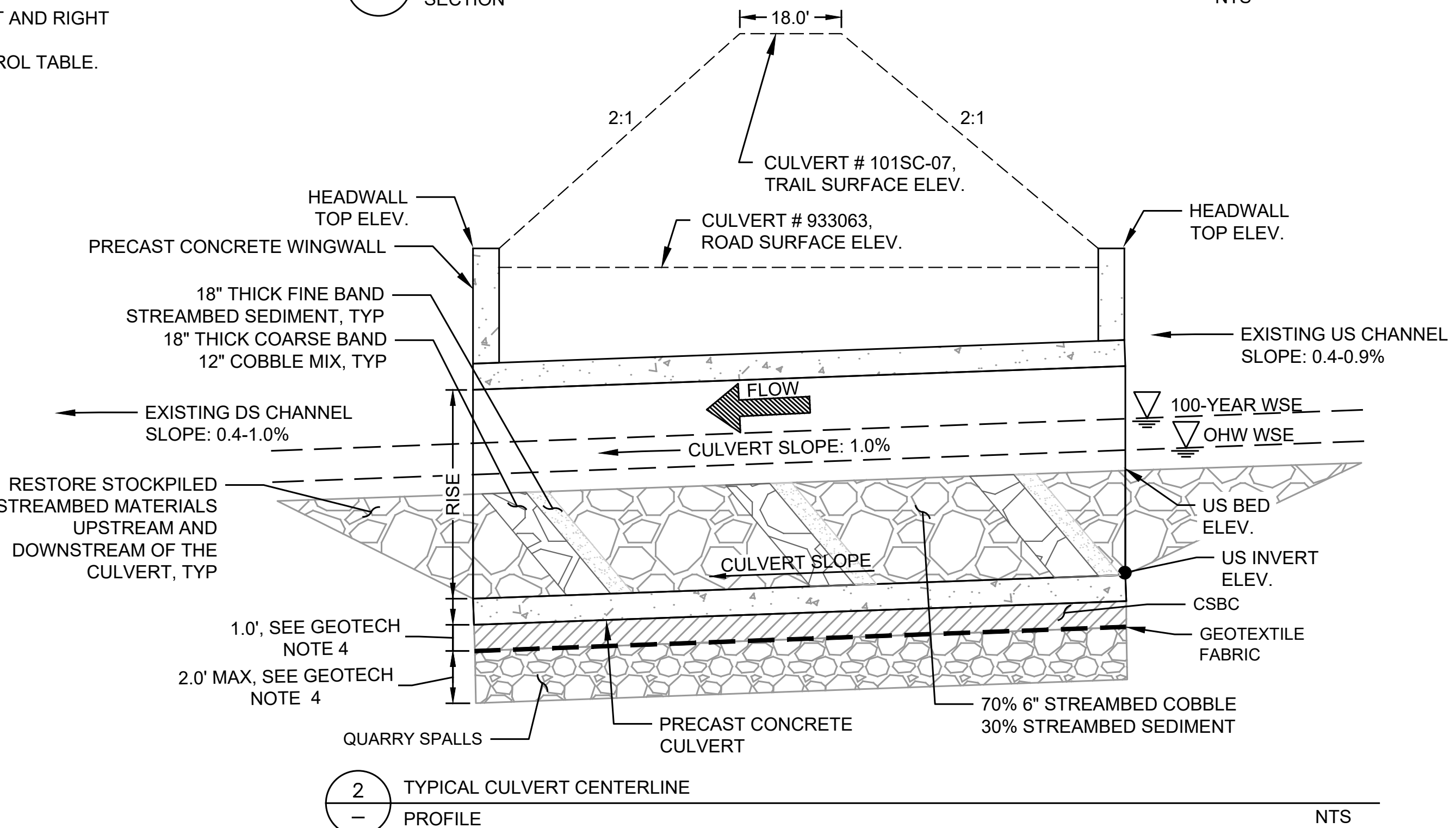
SNOQUALMIE VALLEY TRAIL		PROJECT MANAGER: AMF		DESIGN TEAM	
PROJECT #	DATE	REV #	REVISION	BY	DATE
ISSUED	GLW	5/16/2024			
APPROVED	GLW	5/16/2024			
REVIEWED					
DRAWN	AMF	5/16/2024			



**King County**  
 Department of Natural Resources and Parks  
 Parks and Recreation Division  
 Capital Projects Section  
 201 S. Jackson St., Suite 700, Seattle, WA 98104  
 Christie True, Director

**LANGLOIS CREEK CULVERT REPLACEMENTS**  
 SNOQUALMIE VALLEY TRAIL CROSSING  
 32610 NE 32ND ST  
 CARNATION, WA 98014  
**CULVERT GRADING PLAN, PROFILE, & SECTIONS**

SHEET  
 6  
 OF  
 10  
 SHEETS  
 SVT-06

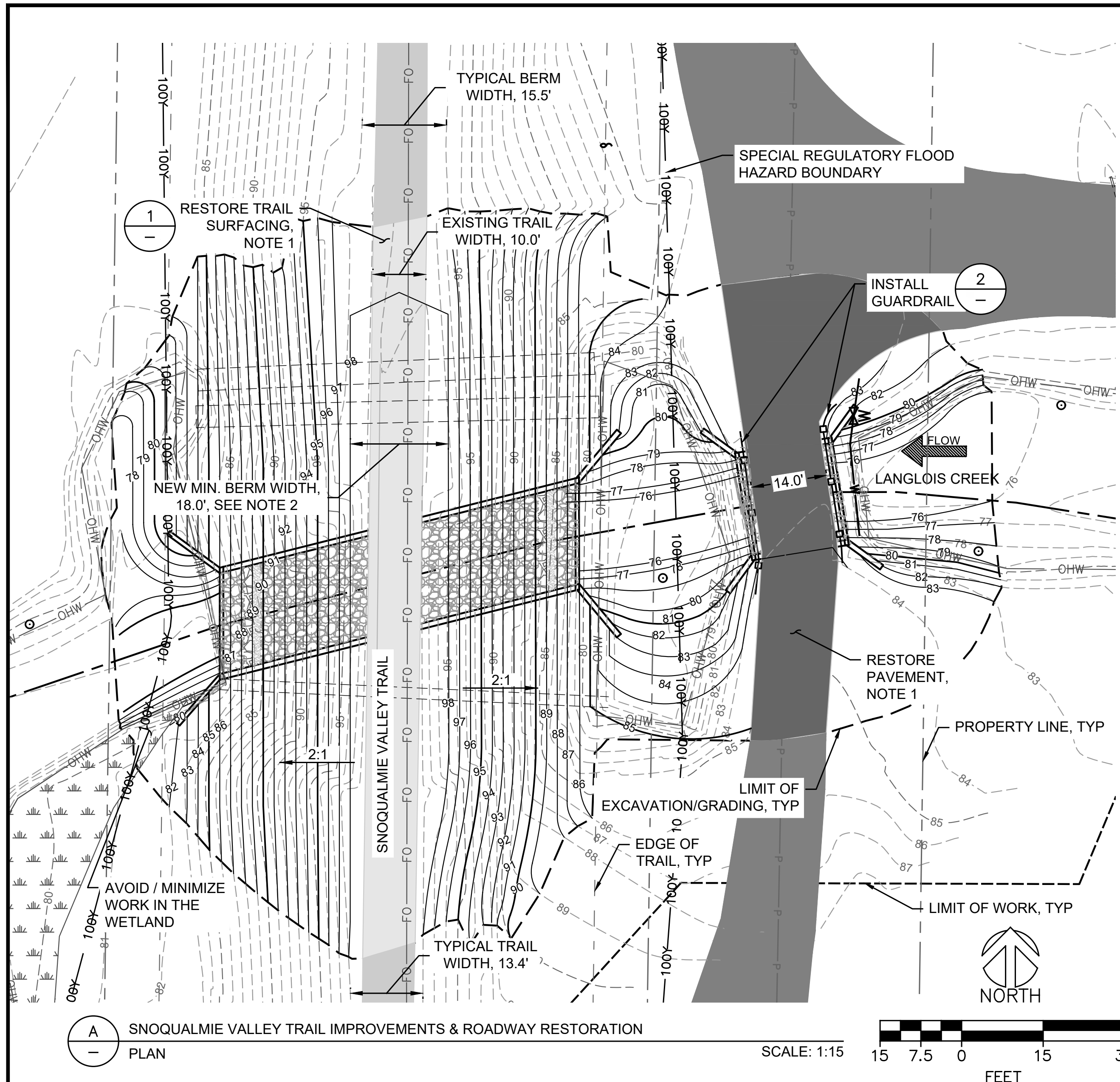


2 TYPICAL CULVERT CENTERLINE PROFILE NTS

- STREAMBED CONSTRUCTION NOTES**
- INSTALLATION OF STREAMBED SHALL BE PER SPECIFICATIONS SECTION 8-30.
  - THE PROPOSED STREAMBED MATERIAL SHALL CONSIST OF 70% 6" STREAMBED COBBLE OF THE SPECIFIED GRADATION MIXED WITH 30% STREAMBED SEDIMENT. ALL IMPORTED STREAMBED MATERIALS SHALL BE INSPECTED AND APPROVED BY THE ENGINEER AT THE OFFSITE SOURCE BEFORE DELIVERY TO THE PROJECT SITE.
  - THE PROPOSED STREAMBED MATERIAL SHALL BE MIXED INTO A SINGLE STOCKPILE PRIOR TO INSTALLATION USING THE RATIOS PROVIDED ON THIS SHEET AND THE PROJECT SPECIFICATIONS.
  - PROPOSED STREAMBED MATERIALS SHALL BE INSTALLED IN 12-INCH LIFTS TO THE DIMENSIONS AND THICKNESS SHOWN IN THESE PLANS. WATER SHALL BE APPLIED TO EACH LIFT TO WASH IN STREAMBED SEDIMENT TO CREATE A SEALED BED.

**811**  
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 CALL 2 BUSINESS DAYS  
 BEFORE YOU DIG.  
 (UTILITY LOCATIONS ARE APPROX.)





A SNOQUALMIE VALLEY TRAIL IMPROVEMENTS & ROADWAY RESTORATION  
PLAN

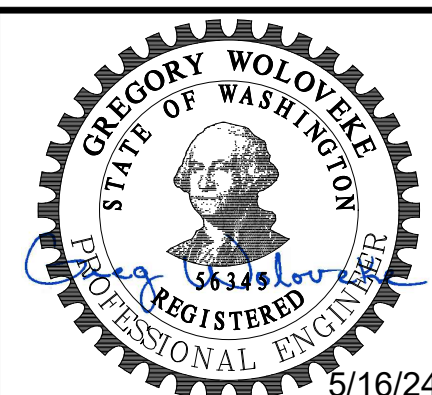
SCALE: 1:15  
15 7.5 0 15 30  
FEET

**NOTES**

1. MATCH NEW ROAD/TRAIL ELEVATIONS AND WIDTHS TO EXISTING ROAD/TRAIL ELEVATIONS AND WIDTHS AT TIE-IN POINTS. MATCH NEW ROAD SURFACE TO EXISTING ROAD PAVEMENT SECTION. RESURFACE TRAIL PER DETAIL 1.
2. THE TRAIL CREST SHALL HAVE A MINIMUM WIDTH OF 18.0' TO ACCOMMODATE EMERGENCY VEHICLES. TAPER TO MATCH EXISTING GRADE AT EACH END.
3. IN AREAS WHERE THE LIMIT OF GRADING EXTENDS PAST THE FINISHED GRADE CONTOURS, RESTORE AREAS TO PRE-DISTURBANCE GRADES.
4. SEE SHEET SVT-06 FOR STREAMBED GRADING AND GRADING IN THE CULVERTS.

**FINAL DESIGN**

SNOQUALMIE VALLEY TRAIL			PROJECT MANAGER: AMF			DESIGN TEAM		
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
ISSUED	GLW	5/16/2024				STRUCT.	N/A	
APPROVED	GLW	5/16/2024				CIVIL	GLW, P.E.	
REVIEWED						L.ARCH	ABG, P.L.A.	
DRAWN	AMF	5/16/2024				ENG.		

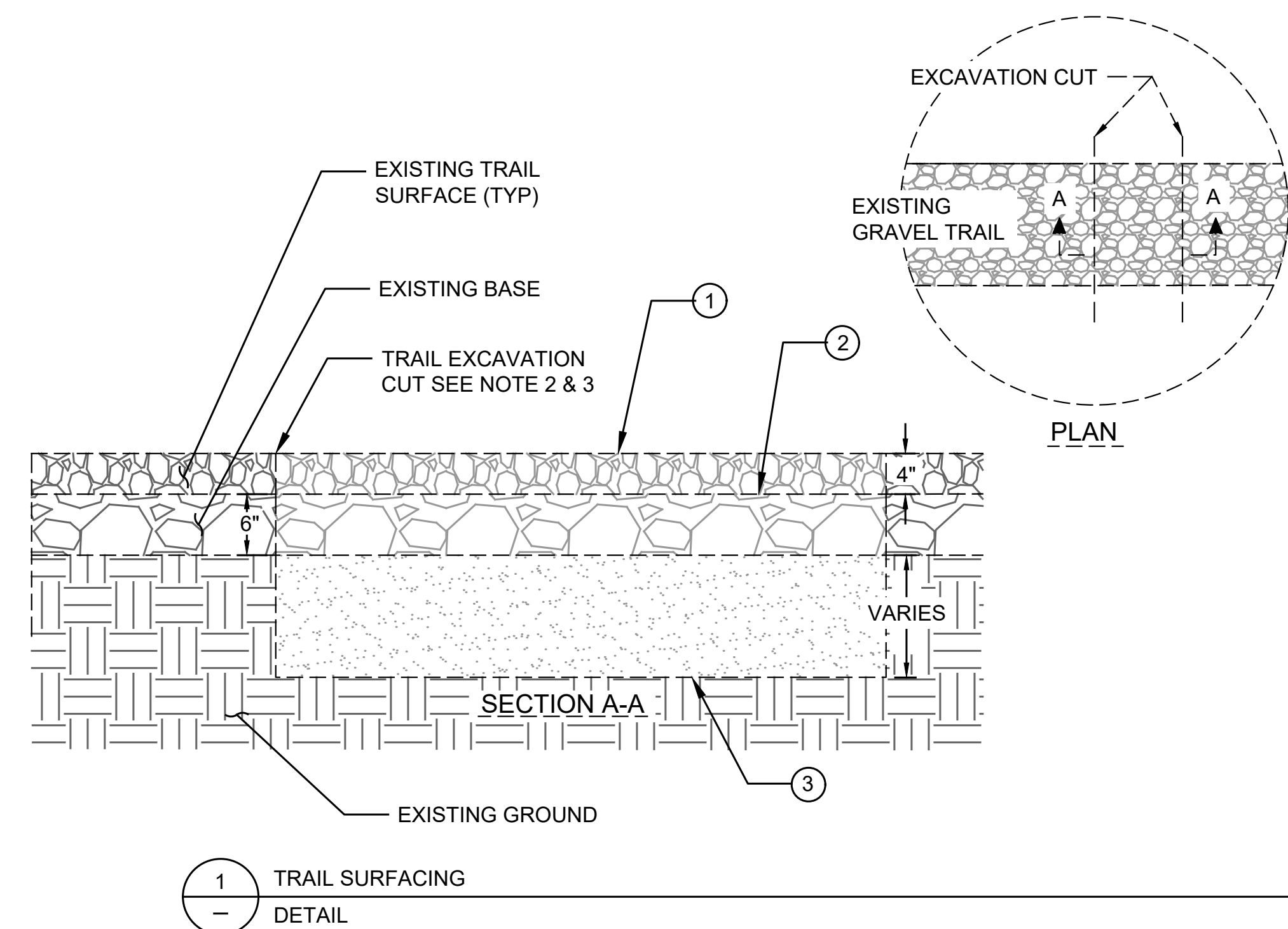


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Christie True, Director

LANGLOIS CREEK CULVERT REPLACEMENTS  
SNOQUALMIE VALLEY TRAIL CROSSING  
32610 NE 32ND ST  
CARNATION, WA 98014  
 SNOQUALMIE VALLEY Watershed Improvement District

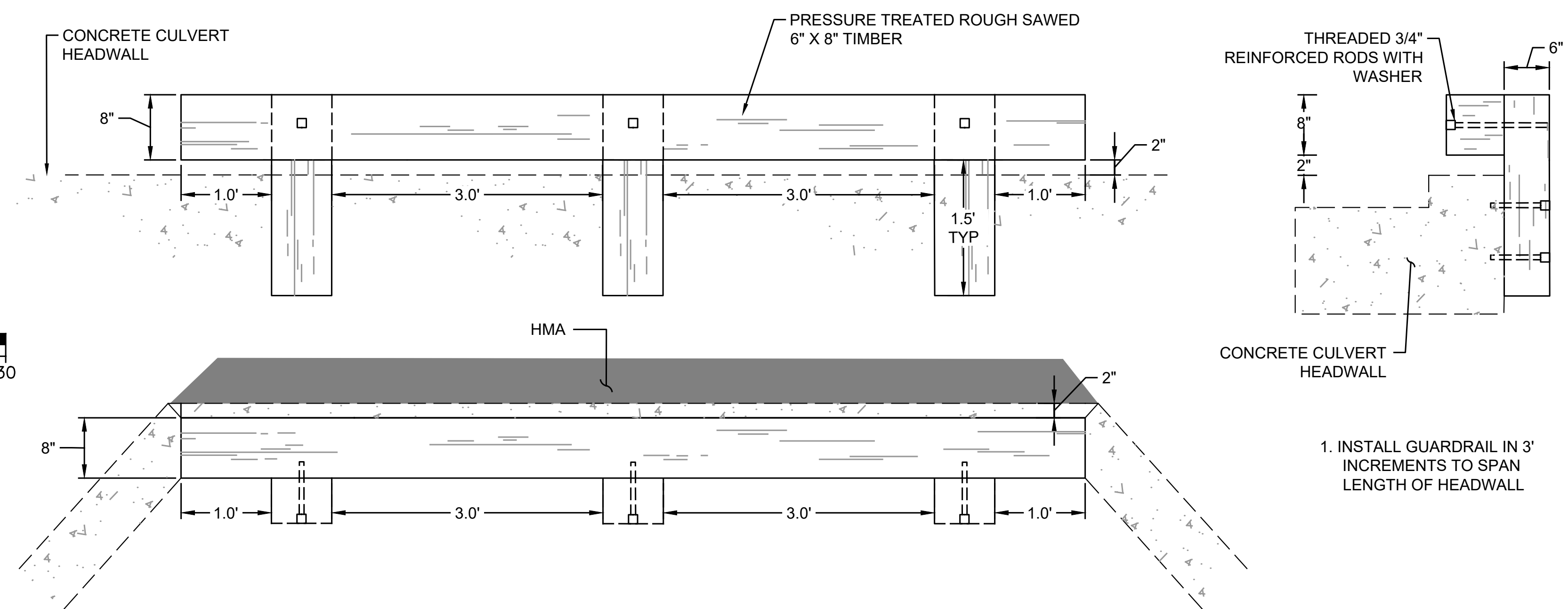
TRAIL & ROAD IMPROVEMENT PLAN

SHEET  
7  
OF  
10  
SHEETS  
SVT-07



1 TRAIL SURFACING  
DETAIL

SCALE: 1:1



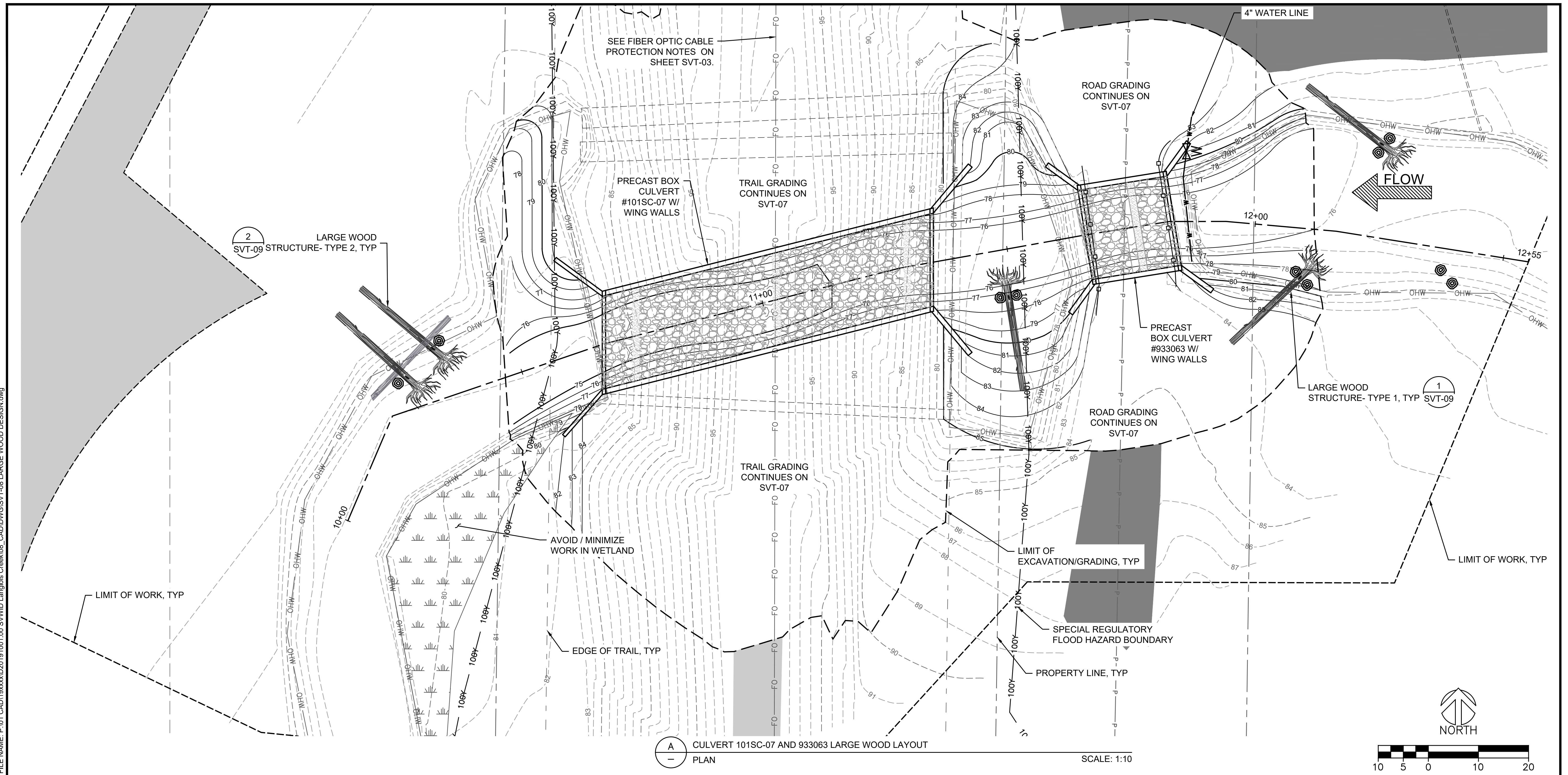
2 GUARDRAIL  
DETAIL

SCALE: 1:1

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PLOT DATE: 5/23/2024 9:35:29 AM FILE NAME: P:\01 CAD\19xxxx\20191001.00 SV\WID Langlois Creek\08\_CAD\DWG\SVT-08\_LARGE WOOD DESIGN.dwg PLOTTED BY: GREG WOLOVEKE

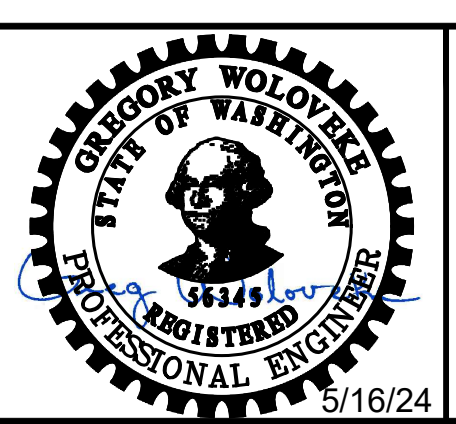


A CULVERT 101SC-07 AND 933063 LARGE WOOD LAYOUT  
 PLAN

**NOTES**

1. LIMITS OF EXCAVATION AND MAY BE FIELD FIT AS NEEDED FOR LARGE WOOD STRUCTURE INSTALLATION.
2. FINAL LARGE WOOD ASSEMBLIES MAY BE FIELD FIT BY THE ENGINEER, CONTRACTOR TO NOTIFY ENGINEER BEFORE PLACEMENT OF ANY WOOD STRUCTURES.
3. UNMAPPED UTILITIES MAY BE PRESENT IN THE LIMITS OF GRADING. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITIES.
4. SEE SHEET SVT-07 FOR TRAIL GRADING AND IMPROVEMENT PLAN AND DETAILS.
5. OVERHEAD ELECTRICAL TRANSMISSION LINES ARE PRESENT. A MINIMUM OF 10 FEET OF SEPARATION FROM THESE LINES IS MANDATORY. FIELD ESTIMATIONS OF CLEARANCE ARE APPROXIMATELY 25 FEET. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND MAINTAINING THE REQUIRED 10 FEET OF SEPARATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL LARGE WOOD.

SNOQUALMIE VALLEY TRAIL			PROJECT MANAGER: AMF			DESIGN TEAM		
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
D191001.00	5/23/2024					STRUCT.	N/A	
ISSUED	GLW					CIVIL	GLW, P.E.	
APPROVED	GLW					L.ARCH	ABG, P.L.A.	
REVIEWED	HLW					ENG.	HLW, P.E.	
DRAWN	AMF							



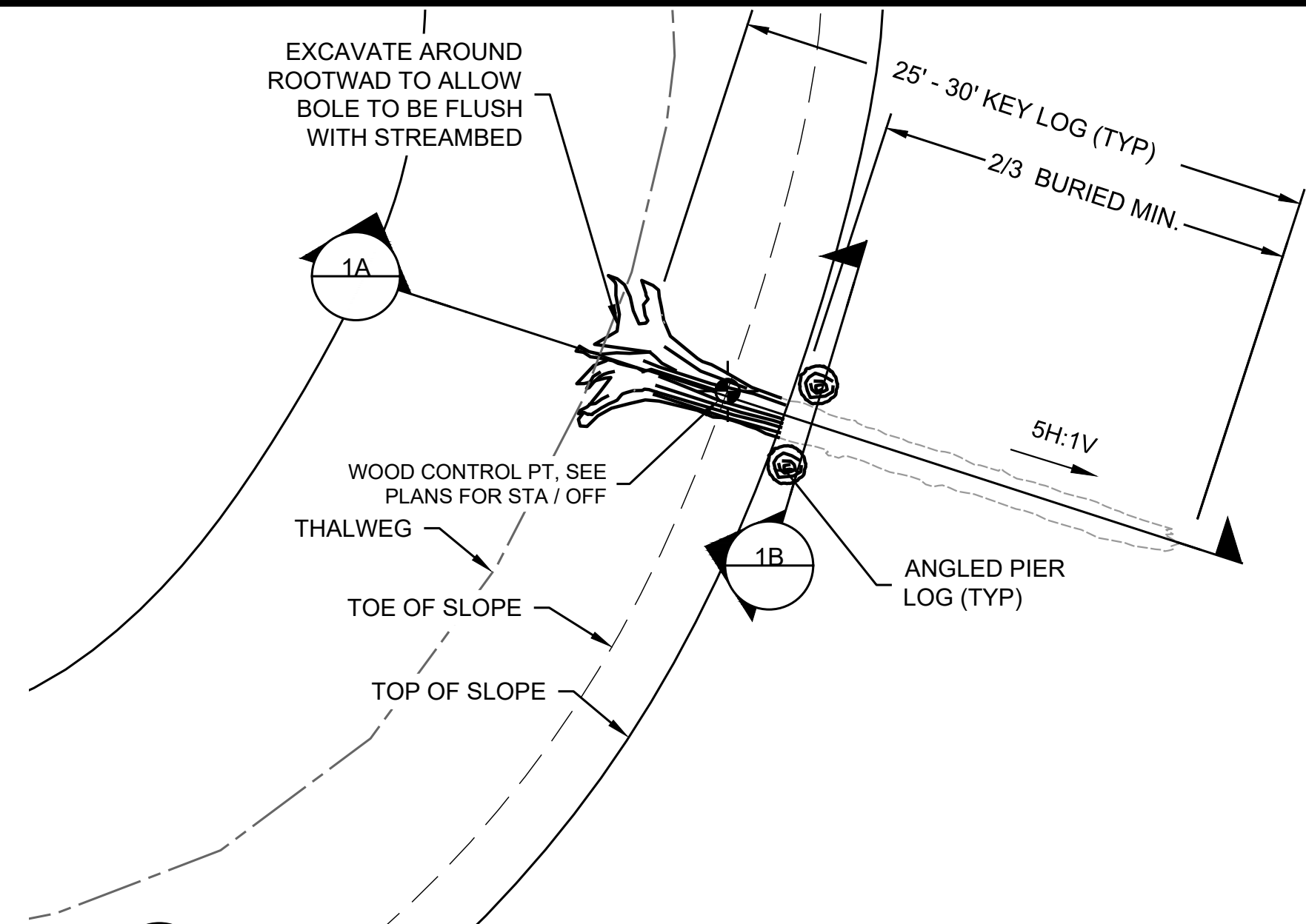
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*Christie True, Director*

LANGLOIS CREEK CULVERT REPLACEMENTS  
 SNOQUALMIE VALLEY TRAIL CROSSING  
 32610 NE 32ND ST  
 CARNATION, WA 98014

**LARGE WOOD PLAN**

SHEET  
 8  
 OF  
 10  
 SHEETS  
 SVT-08

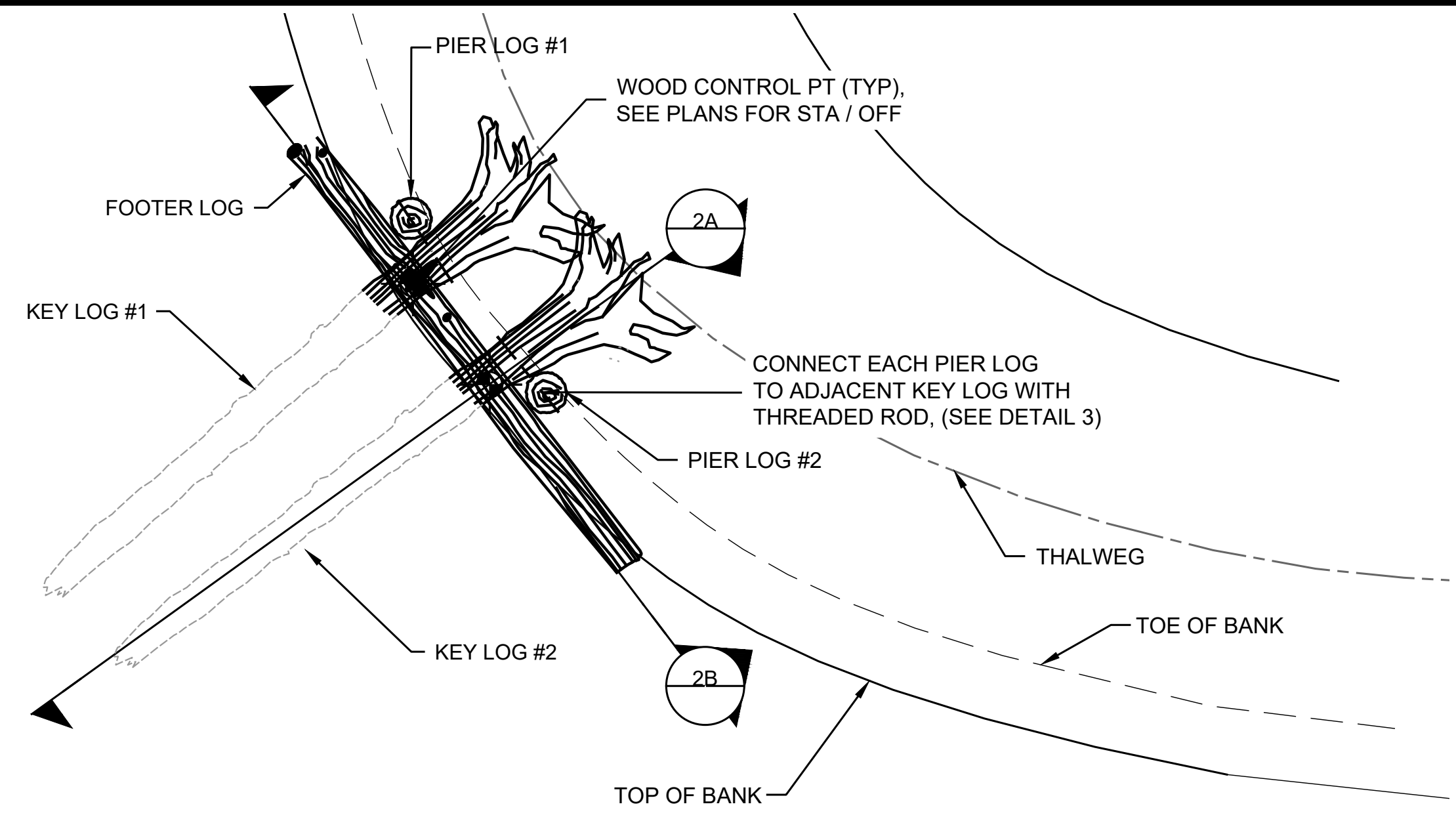




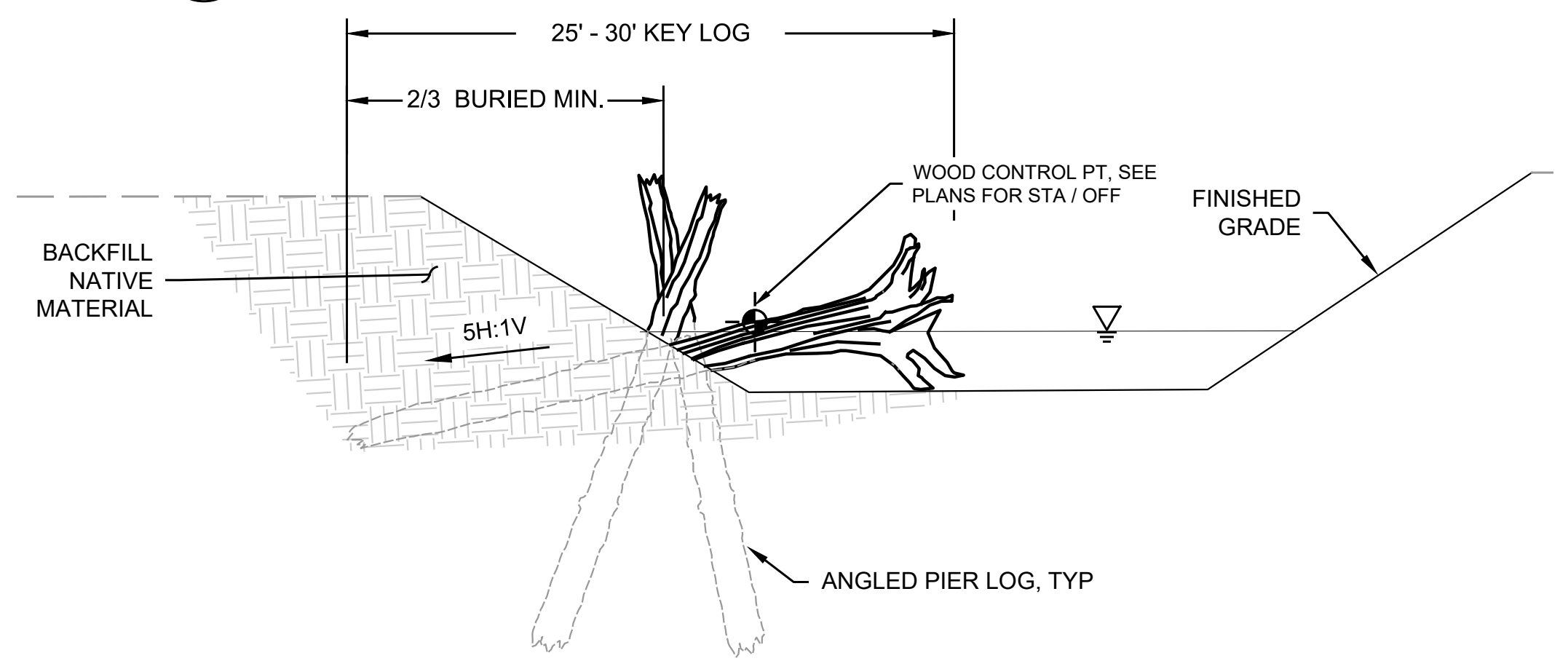
1 LARGE WOOD STRUCTURE-TYPE 1  
PLAN SCALE: NTS

LARGE WOOD STRUCTURE- TYPE 1 MATERIAL SCHEDULE			
MATERIAL	QUANTITY	DIAMETER	LENGTH (FT)
KEY LOG	1	12" - 18"	20' - 25'
PIER LOG	2	12" - 15"	15' MIN.

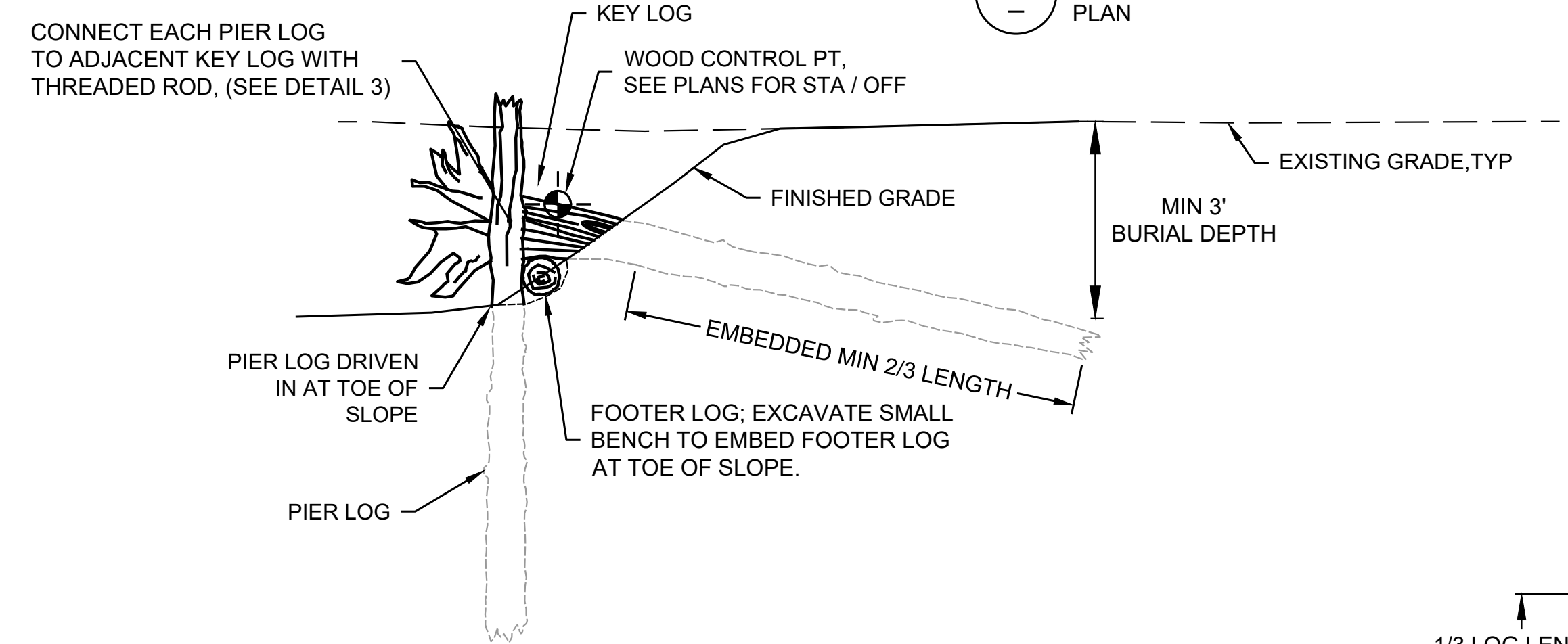
LARGE WOOD STRUCTURE- TYPE 2 MATERIAL SCHEDULE			
MATERIAL	QUANTITY	DIAMETER	LENGTH (FT)
KEY LOG	2	12" - 18"	20' - 25'
FOOTER LOG	1	12" - 15"	10' - 15'
PIER LOG	2	12" - 15"	15' MIN.



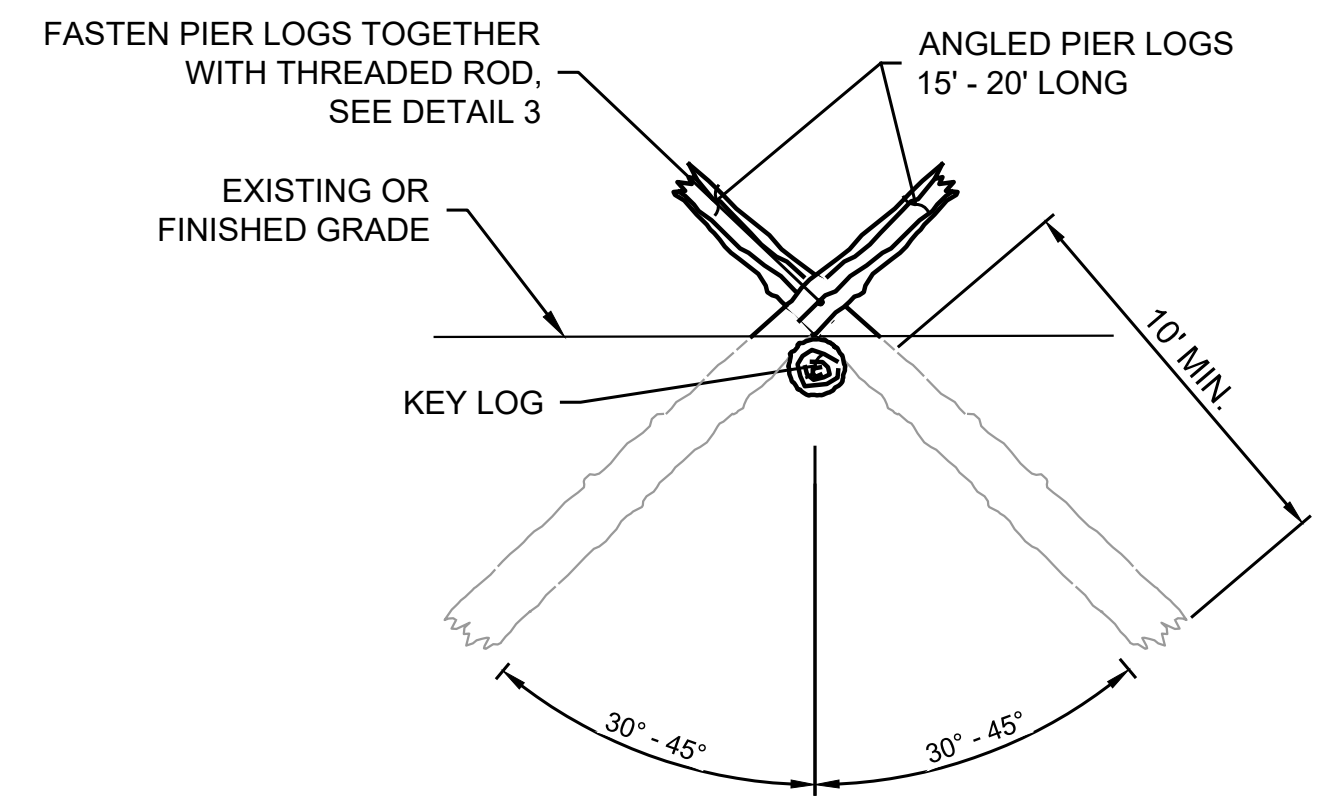
2 LARGE WOOD STRUCTURE-TYPE 2  
PLAN SCALE: NTS



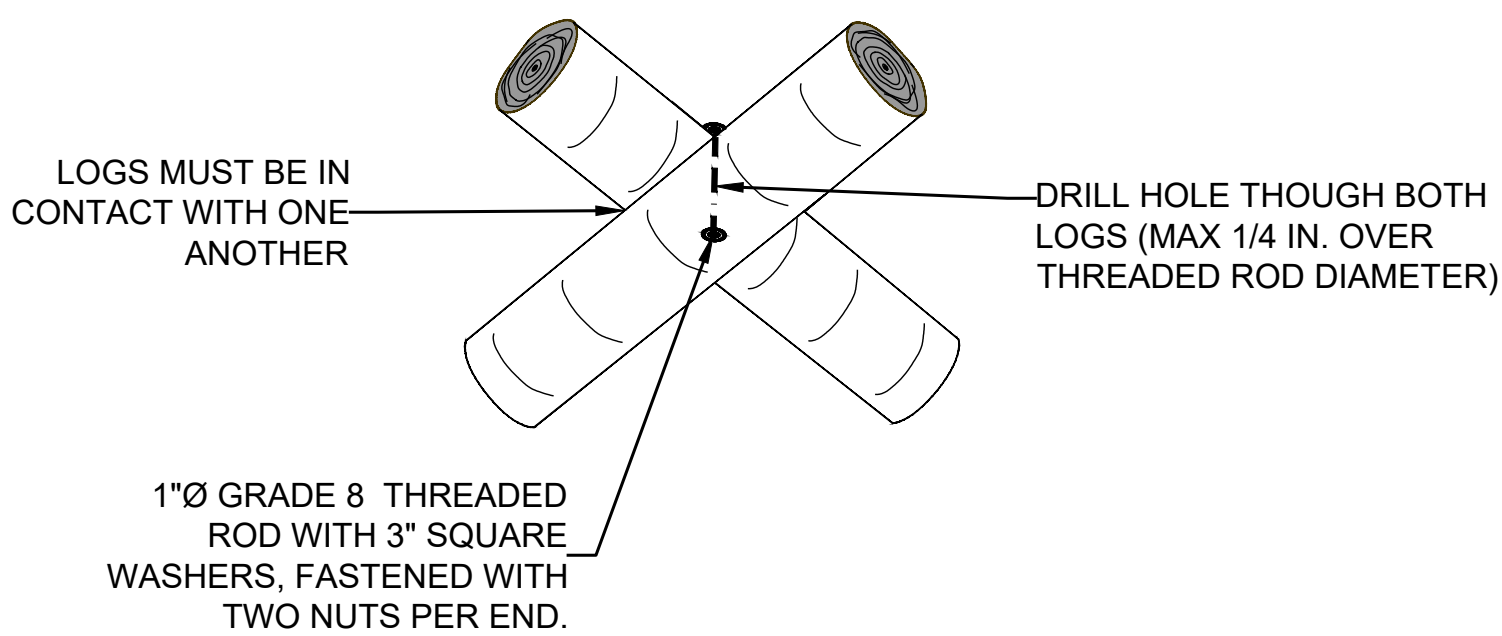
1A LARGE WOOD STRUCTURE-TYPE 1  
SECTION SCALE: NTS



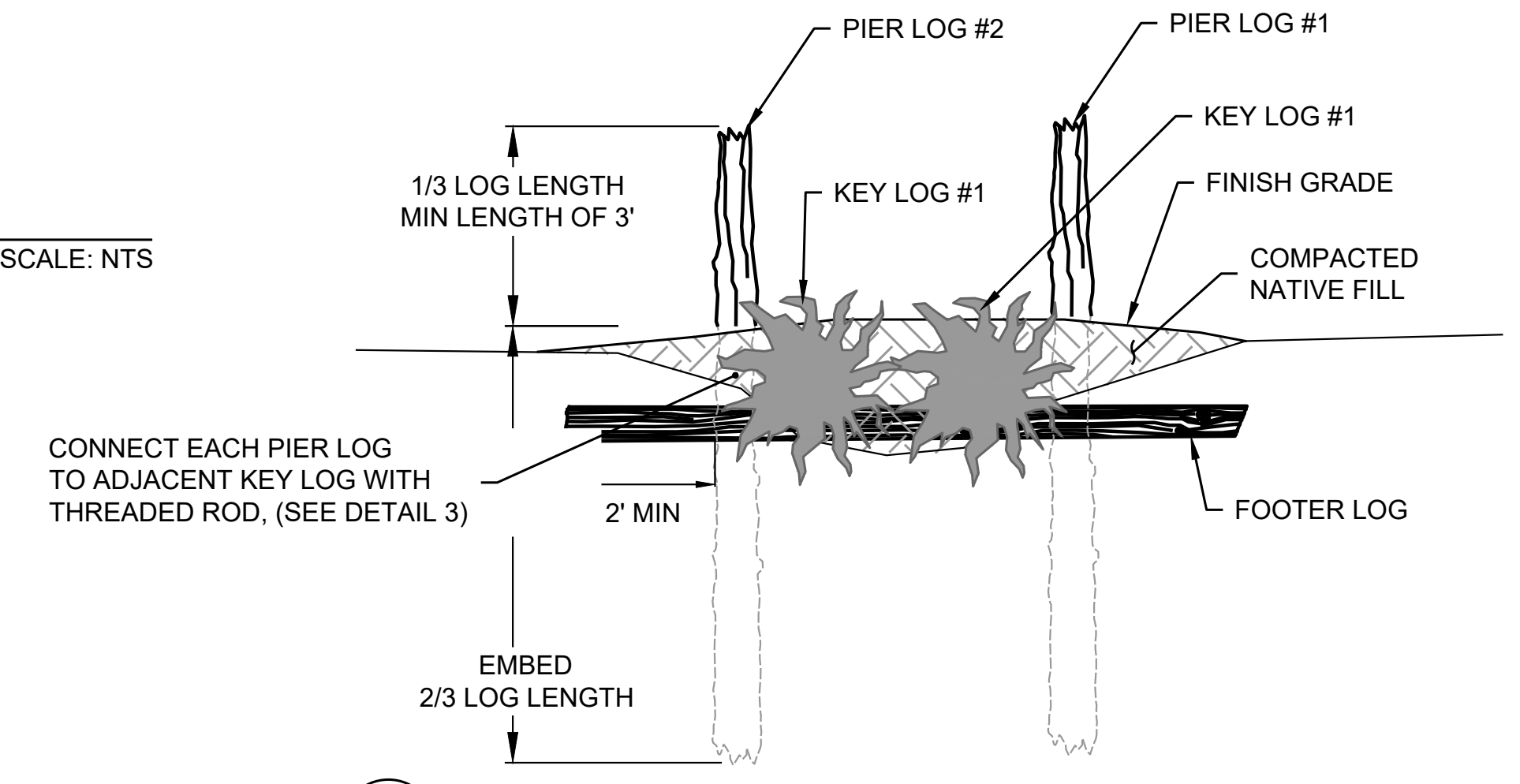
2A LARGE WOOD STRUCTURE-TYPE 2  
SECTION SCALE: NTS



1B LARGE WOOD STRUCTURE-TYPE 1  
SECTION SCALE: NTS



3 LOG CONNECTION  
SECTION SCALE: NTS



2B LARGE WOOD STRUCTURE-TYPE 2  
PLAN SCALE: NTS

FINAL DESIGN

SNOQUALMIE VALLEY TRAIL			PROJECT MANAGER: AMF			DESIGN TEAM		
PROJECT #	DATE	REV #	REVISION	BY	DATE	ARCH.	N/A	
D191001.00	5/16/2024					STRUCT.	N/A	
ISSUED	GLW					CIVIL	GLW, P.E.	
APPROVED	GLW					L.ARCH	ABG, P.L.A.	
REVIEWED						ENG.		
DRAWN	AMF							



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Christie True, Director

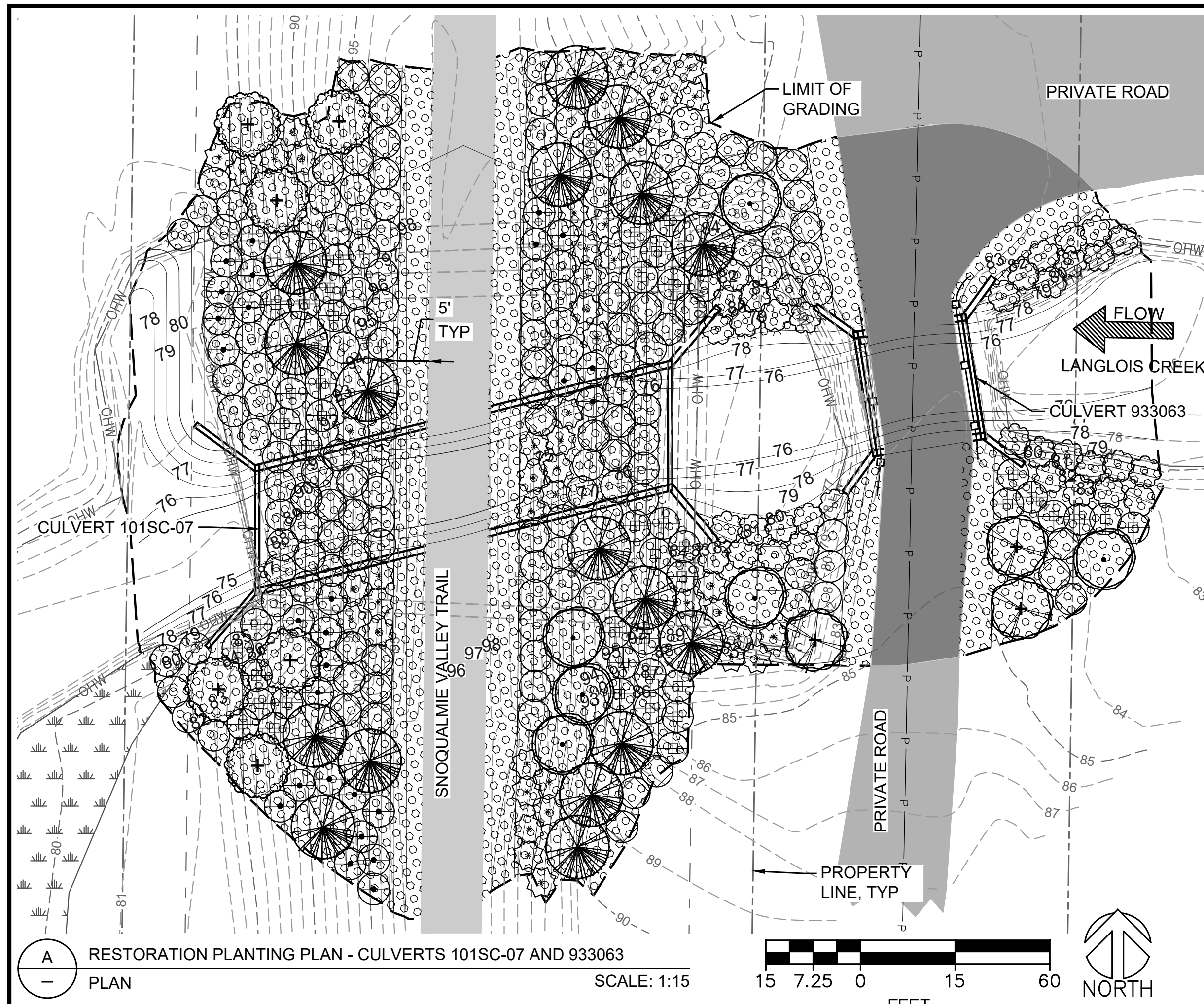
LANGLOIS CREEK CULVERT REPLACEMENTS  
SNOQUALMIE VALLEY TRAIL CROSSING  
32610 NE 32ND ST  
CARNATION, WA 98014  
**SNOQUALMIE VALLEY**  
Watershed Improvement District

SHEET  
9  
OF  
10  
SHEETS  
SVT-09

LARGE WOOD DETAILS

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(UTILITY LOCATIONS ARE APPROX.)





RESTORATION PLANTING SCHEDULE

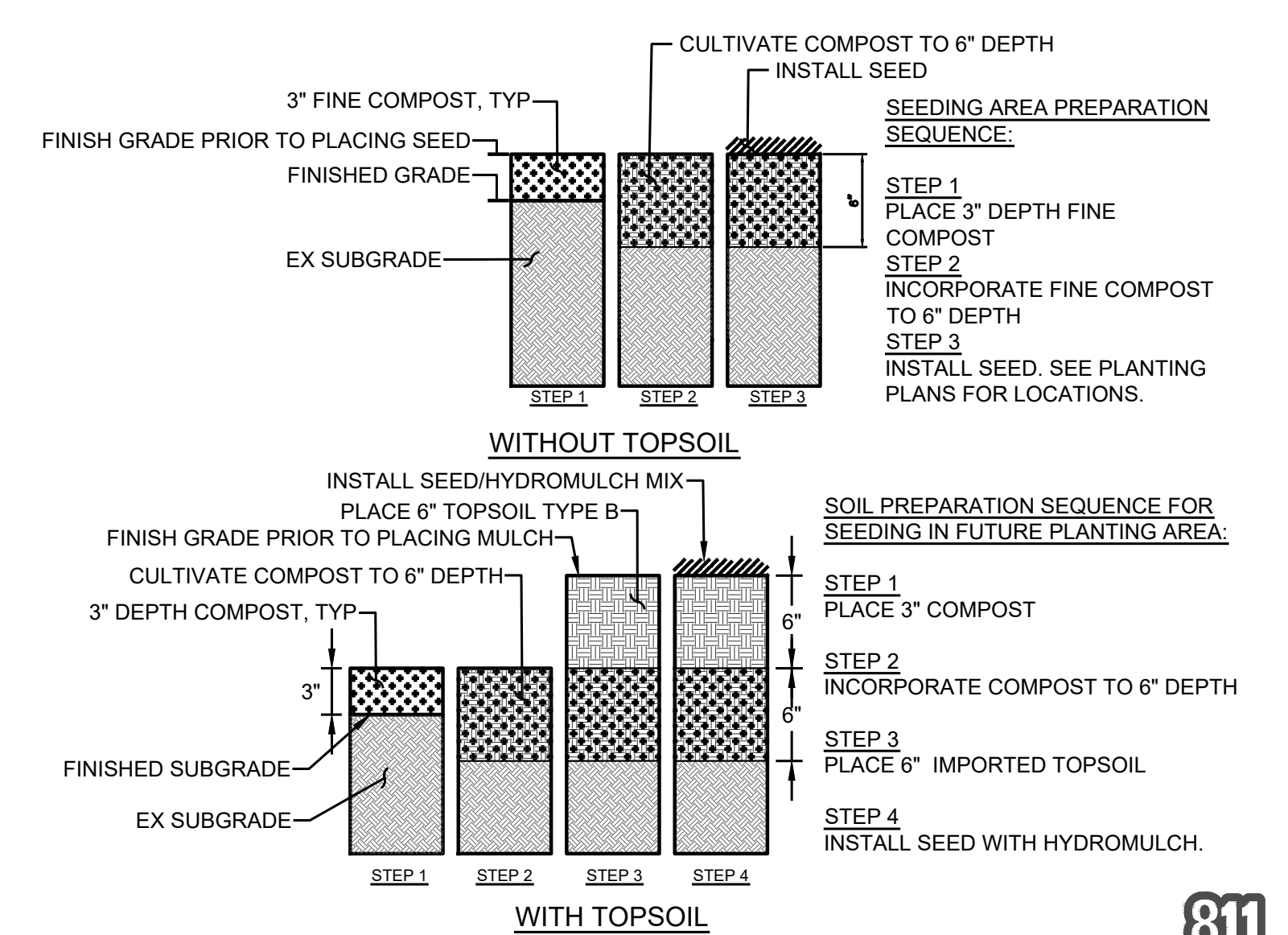
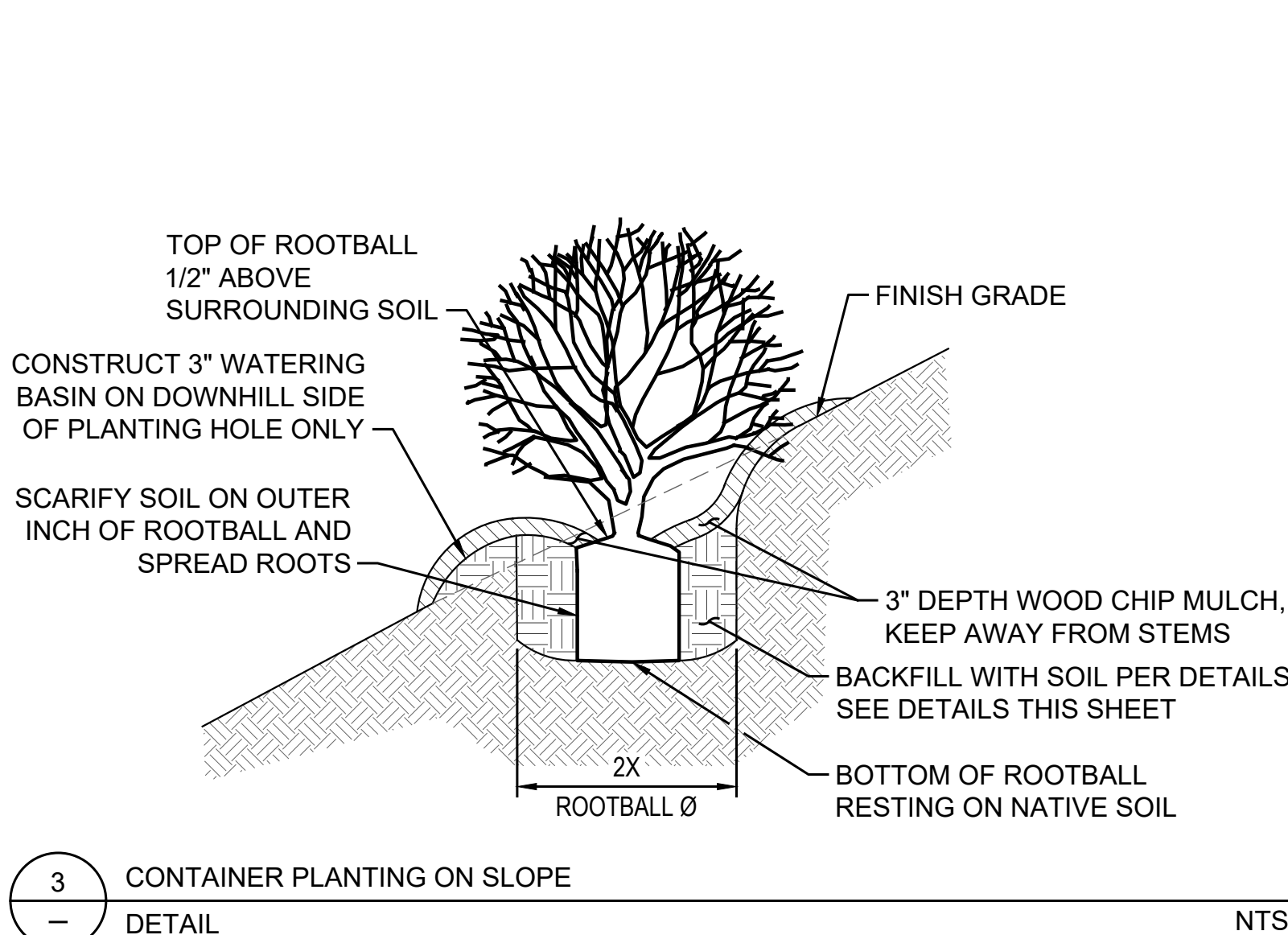
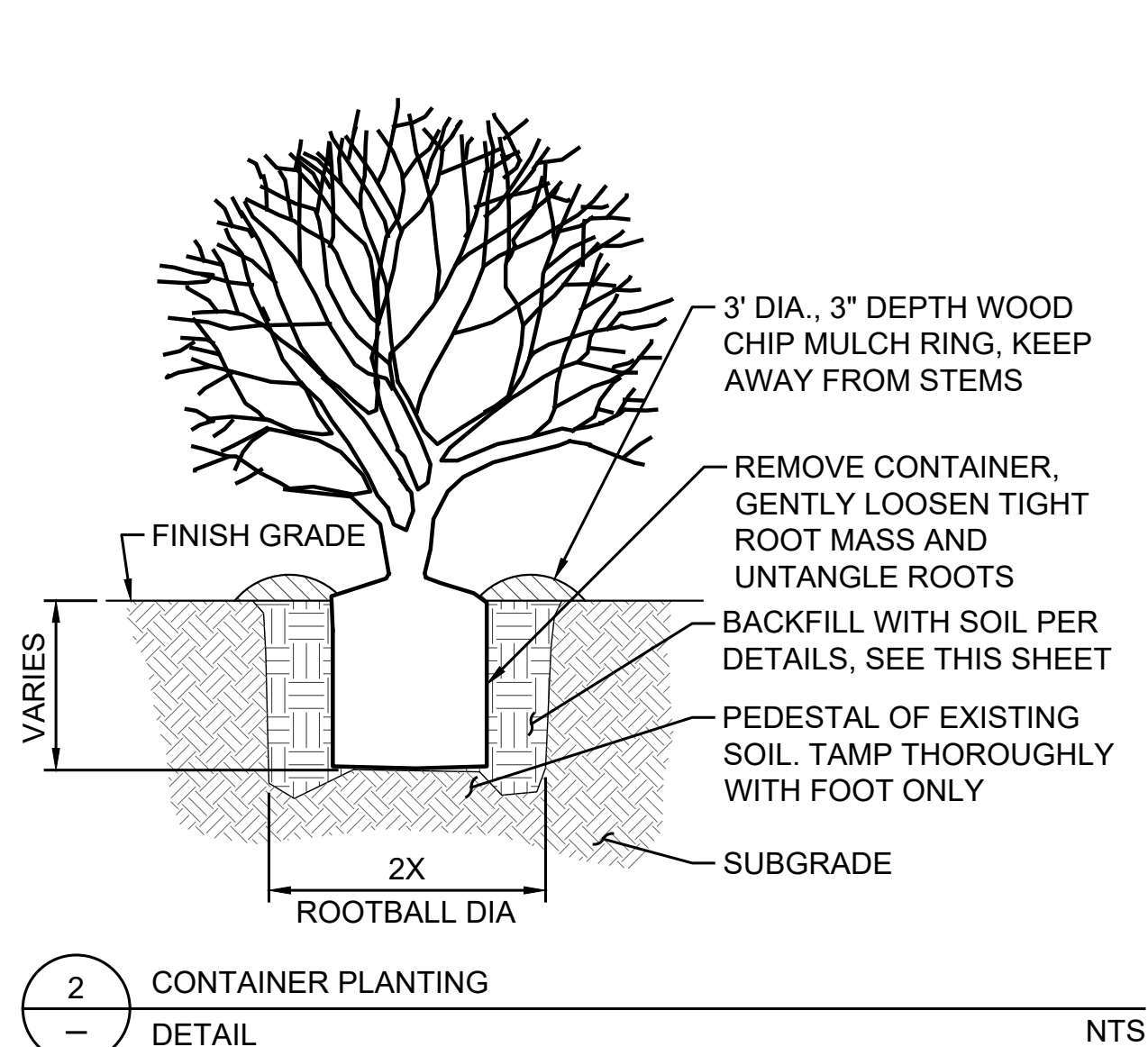
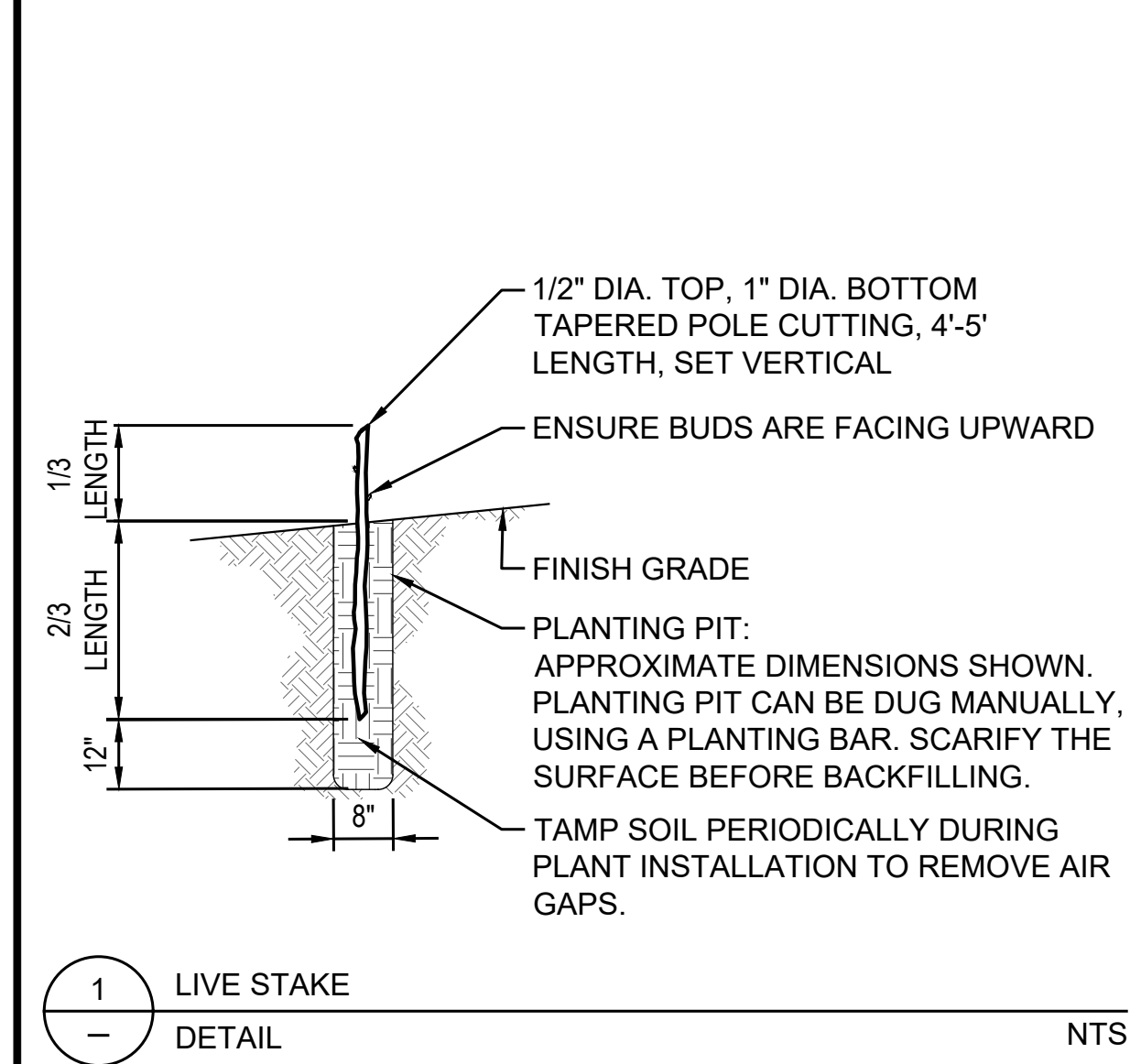
SYMBOL	BOTANICAL NAME	COMMON NAME	TYPE	SIZE	SPACING	PLANT QUANTITIES BY AREA			
						101SC-07 & 933063	933062	933064	TOTAL
TREES:									
	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	CONTAINER	2 GAL.	AS SHOWN	3	0	0	3
	FRAXINUS LATIFOLIA	OREGON ASH	CONTAINER	2 GAL.	AS SHOWN	6	3	0	9
	POPULUS TRICHOCARPA	BLACK COTTONWOOD	CONTAINER	2 GAL.	AS SHOWN	0	0	3	3
	RHAMNUS PURSHIANA	CASCARA	CONTAINER	2 GAL.	AS SHOWN	6	0	0	6
	THUJA PLICATA	WESTERN REDCEDAR	CONTAINER	2 GAL.	AS SHOWN	17	3	5	25

SHRUBS:									
	CORNUS SERICEA	RED-OSIER DOGWOOD	LIVE STAKE	4'-5'	5' O.C.	35	36	27	98
	CORNUS SERICEA	RED-OSIER DOGWOOD	CONTAINER	1 GAL.	5' O.C.	53	25	6	84
	LONICERA INVOLUCRATA	BLACK TWINBERRY	CONTAINER	1 GAL.	5' O.C.	46	0	3	49
	PHYSOCARPUS CAPITATUS	PACIFIC NINEBARK	CONTAINER	1 GAL.	5' O.C.	43	7	3	53
	RIBES LACUSTRE	PRICKLY CURRANT	CONTAINER	1 GAL.	5' O.C.	27	8	6	41
	ROSA PISOCARPA	CLUSTER ROSE	CONTAINER	1 GAL.	5' O.C.	43	8	8	59
	RUBUS SPECTABILIS	SALMONBERRY	CONTAINER	1 GAL.	5' O.C.	47	0	11	58

SEED:									
	BROMUS CARINATUS	CALIFORNIA BROME		55%					
	ELYMUS GLAUCUS	BLUE WILDRYE		25%	1 LB PER 1,000 SF	1,943 SF	648 SF	634 SF	3,225 SF
	LUPINUS RIVULARIS	STREAMBANK LUPINE		20%					

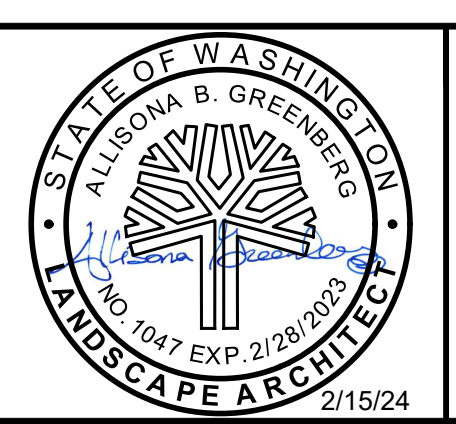
NOTES

- SEE SHEET SVT-04 FOR TESC & STREAM DIVERSION PLAN.
- SEE SHEET SVT-06 FOR STREAMBED GRADING AND GRADING IN THE CULVERTS.



FINAL DESIGN

SNOQUALMIE VALLEY TRAIL		PROJECT MANAGER: AMF				DESIGN TEAM	
PROJECT #	D191001.00	DATE	REV #	REVISION	BY	DATE	ARCH.
ISSUED	GLW	5/16/2024					N/A
APPROVED	GLW	5/16/2024					STRUCT.
REVIEWED							N/A
DRAWN	AMF	5/16/2024					CIVIL
							GLW, P.E.
							L.ARCH
							ABG, P.L.A.
							ENG.



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SNOQUALMIE VALLEY TRAIL CROSSING  
32610 NE 32ND ST  
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**SNOQUALMIE VALLEY Watershed Improvement District**

SHEET  
10  
OF  
10  
SHEETS  
RESTORATION PLANTING PLAN, SCHEDULE, & DETAILS  
SVT-10

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