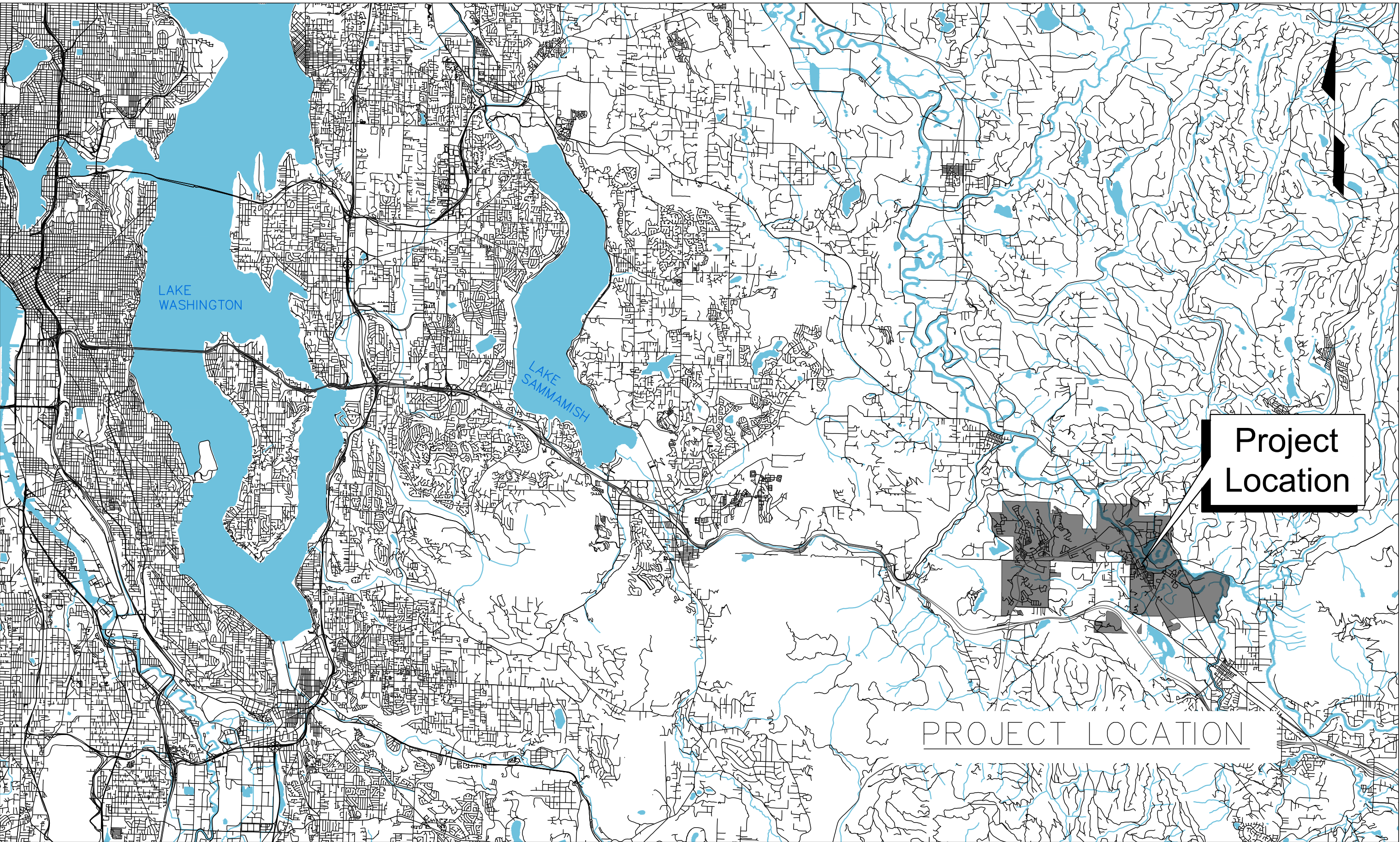


SANDY COVE PARK BANK RESTORATION PHASE 1 - TEMPORARY BANK PROTECTION

SHEET INDEX		
SHEET OF	SHEET NO.	SHEET TITLE
1	G0.00	COVER, VICINITY MAP, SHEET INDEX
2	G0.01	NOTES & LEGENDS
3	R2.01	EXISTING CONDITIONS
4	R2.02	EXISTING CONDITIONS
5	SC1.01	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, STAGING AND ACCESS
6	SC1.50	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
7	SC1.51	TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS
8	R3.01	GRADING PLAN OVERVIEW
9	R3.02	PROPOSED GRADING PLAN
10	R3.03	TYPICAL SECTIONS
11	R3.04	LOG JAM GRADING TIE-IN
12	R3.50	COIR MAT & COIR BULK BAG DETAILS



					DRAWN BY ARW	DESIGNED BY VC/CLB	 two business days before you dig	 38624 SE River Street P.O. Box 987 Snoqualmie, WA 98065 Phone: (425) 888-1555	 northwest hydraulic consultants 12787 gateway drive south lukwila, washington 98168-3308 phone: (206) 241-6000 fax: (206) 439-2420 www.nhcnweb.com		SANDY COVE PARK BANK RESTORATION PHASE 1 SNOQUALMIE, WA					SHEET															
					CHECKED BY CLB	APPROVED BY VC/CLB					COVER, VICINITY MAP, SHEET INDEX					G0.00															
NO.	DATE	BY	CHD.	APPR.	REVISION						JOB No.: 2003862						SCALE: AS SHOWN														

GENERAL CONSTRUCTION NOTES:

- 1.THE WORK INCLUDES INSTALLING TEMPORARY BANK STABILIZATION MEASURES (INCLUDING WASHED ROCK, COIR FABRIC, SEED MIX, SANDBAGS, DEFLECTOR SACKS) AND RESTORING THE SITE.
- 2.THE WORK SHOWN ON THE PLANS SHALL BE SEQUENCED AND PERFORMED IN A MANNER THAT MINIMIZES IMPACTS TO THE RIVER, EXISTING VEGETATION, THE WORK SITE AND ADJACENT PRIVATE PROPERTY AND PUBLIC INFRASTRUCTURE.
- 3.THE CONTRACTOR SHALL DECIDE HOW TO SEQUENCE THE WORK. HOWEVER, THIS PROJECT WILL BE CONSTRAINED BY AN IN-WATER WORK WINDOW SET FORTH IN THE PROJECT HYDRAULIC PROJECT APPROVAL PERMIT, SECTION 404 PERMIT, AND ANY OTHER APPLICABLE PERMIT, OUTSIDE OF WHICH NO IN-WATER WORK SHALL OCCUR. WORK WITHIN THE ORDINARY HIGH WATER LINE WILL BE RESTRICTED TO THE DATES SET FORTH IN THE HYDRAULIC PROJECT APPROVAL PERMIT.
- 4.PROJECT REPRESENTATIVE IS DEFINED AS THE CONTRACTING AGENCY'S REPRESENTATIVE WHO DIRECTLY SUPERVISES THE ENGINEERING AND ADMINISTRATION OF THE CONSTRUCTION CONTRACT. THE CONTRACTING AGENCY IS DEFINED AS THE CITY OF SNOQUALMIE.
- 5.THE CONTRACTOR SHALL STAKE THE LIMITS OF WORK FOR APPROVAL BY THE PROJECT REPRESENTATIVE AT LEAST 5 WORKING DAYS PRIOR TO COMMENCING ONSITE ACTIVITIES. LIMITS OF WORK SHOWN ON THE PLANS REPRESENT WORK AREAS AND DO NOT REPRESENT CLEARING LIMITS.
- 6.CLEARING LIMITS ARE NOT SHOWN BUT ARE COINCIDENT WITH GRADING LIMITS. THE CONTRACTOR SHALL STAKE CLEARING LIMITS FOR APPROVAL BY THE PROJECT REPRESENTATIVE AT LEAST 5 WORKING DAYS PRIOR TO COMMENCING ONSITE CLEARING ACTIVITIES. ALL CLEARING NECESSARY FOR CONSTRUCTION SHALL BE LIMITED TO THE AREA REQUIRED FOR SAFE EQUIPMENT OPERATION AND TO MINIMIZE THE AREA OF DISTURBANCE. CLEARING LIMITS SHALL NOT BE EXPANDED UNLESS APPROVED BY THE PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL PRESERVE AS MUCH EXISTING VEGETATION AS POSSIBLE AND NOT DAMAGE OR DISTURB VEGETATION MARKED BY THE PROJECT REPRESENTATIVE FOR PRESERVATION. ALTERATION OR DISTURBANCE OF THE CHANNEL, FLOODPLAIN, AND ANY BANK AND FLOODPLAIN VEGETATION SHALL BE MINIMIZED TO THAT NECESSARY TO CONSTRUCT THE PROJECT.
- 7.TREES AND BRUSH NOT SHOWN ON THE PLANS WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. THE PROJECT REPRESENTATIVE SHALL IDENTIFY AND FLAG ALL TREES TO BE PROTECTED FROM DAMAGE PRIOR TO CONSTRUCTION. FOLLOWING CLEARING OF ALLOWED VEGETATION, THE CONTRACTOR SHALL STOCKPILE ALL TREES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES FOR USE IN AREAS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE PROJECT REPRESENTATIVE. CLEARED VEGETATION NOT RE-PURPOSED ON THE PROJECT TO BE HAULED OFF SITE AND DISPOSED.
- 8.THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS ADVANCE NOTICE TO THE PROJECT REPRESENTATIVE PRIOR TO ANY REQUIRED SPECIAL INSPECTION.
- 9.CONSTRUCTION MATERIAL AND EQUIPMENT STAGING AREAS SHALL BE LOCATED ENTIRELY WITHIN THE PROJECT EXTENTS. CONSTRUCTION MATERIALS AND EQUIPMENT SHALL NOT BE STORED OUTSIDE OF IDENTIFIED STAGING AREAS UNLESS APPROVED BY THE PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL PROTECT ALL CONSTRUCTION MATERIALS AND EQUIPMENT FROM DAMAGE AT ALL TIMES.
- 10.EQUIPMENT USED FOR THIS PROJECT SHALL BE FREE OF EXTERNAL PETROLEUM-BASED PRODUCTS WHILE WORKING NEAR AND IN ANY SURFACE WATER OR WETLANDS. ACCUMULATION OF SOILS OR DEBRIS SHALL BE REMOVED FROM EQUIPMENT PRIOR TO ITS WORKING BELOW THE ORDINARY HIGH WATER LINE AND WITHIN THE WATER.
11. ALL EQUIPMENT OPERATING IN AREAS WITHIN 25- FEET OF THE ORDINARY HIGH WATER OR IN THE RIVER SHALL USE ONLY BIODEGRADABLE, VEGETABLE BASED HYDRAULIC FLUIDS OR OTHER WDFW APPROVED PRODUCT.
- 12.EQUIPMENT SHALL BE CHECKED AT THE BEGINNING OF EACH WORK SHIFT FOR LEAKS, AND ANY NECESSARY REPAIRS SHALL BE COMPLETED PRIOR TO COMMENCING WORK ACTIVITIES.
- 13.THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, CHEMICALS, OR ANY OTHER TOXIC OR DELETERIOUS MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO THE RIVER, GROUNDWATER OR THE PROJECT SITE FROM EQUIPMENT OR SUPPLIES USED DURING CONSTRUCTION.
- 14.CONTRACTOR SHALL LIMIT MACHINERY MOVEMENT TO THE PROJECT EXTENTS DEFINED ON THE PLANS OR IDENTIFIED AS ACCEPTABLE BY THE PROJECT REPRESENTATIVE.
- 15.TURBIDITY MONITORING AND FISHERIES IMPACT MONITORING WILL BE COMPLETED BY THE PROJECT REPRESENTATIVE DURING CONSTRUCTION WORK. IF AT ANY TIME, AS A RESULT OF PROJECT ACTIVITIES, FISH ARE OBSERVED IN DISTRESS, A FISH KILL OCCURS, OR WATER QUALITY PROBLEMS DEVELOP (INCLUDING EQUIPMENT LEAKS OR SPILLS), OPERATIONS SHALL CEASE AND THE PROJECT REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY. WASHINGTON DEPARTMENT OF FISH AND WILDLIFE AND WASHINGTON STATE DEPARTMENT OF ECOLOGY SHALL BE CONTACTED IMMEDIATELY BY THE PROJECT REPRESENTATIVE. WORK SHALL NOT RESUME UNTIL FURTHER APPROVAL BY THE PROJECT REPRESENTATIVE.
- REBEKAH PADGETT, ECOLOGY'S FEDERAL PERMIT MANAGER/COORDINATOR
(425)-649-7129
REBEKAH.PADGETT@ECY.WA.GOV
- KEVIN LEE, WDFW SNOQUALMIE WATERSHED HABITAT BIOLOGIST
{425}-217-7085
KEVIN.LEE@DFW.WA.GOV HPA PERMIT# TBD AT THE TIME OF CLEAR AND GRADING SUBMITTAL
16. EROSION AND SEDIMENT CONTROL METHODS SHALL BE USED TO PREVENT SILT-LADEN WATER FROM ENTERING THE RIVER. MINIMUM EROSION AND WATER POLLUTION CONTROL AND WATER MANAGEMENT BMPs ARE SHOWN ON SHEETS SC1.01, SC1.50, AND SC1.51. THE CONTRACTOR SHALL IMPLEMENT THE PLAN, ADD ANY ADDITIONAL MEASURES REQUIRED TO MEET WASHINGTON STATE WATER QUALITY STANDARDS AND PROJECT PERMIT CONDITIONS, AND SHALL BE RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL, WATER MANAGEMENT, AND WORK AREA ISOLATION NEEDED DURING CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION ACTIVITY SHALL ABIDE BY THE WQMP (WATER QUALITY MONITORING AND PROTECTION PLAN) AND SWPPP (STORMWATER POLLUTION PREVENTION PLAN).
17. IF HIGH FLOW CONDITIONS THAT MAY CAUSE SILTATION, EROSION OR A DANGEROUS WORK ENVIRONMENT ARE ENCOUNTERED DURING CONSTRUCTION, WORK SHALL STOP IN THOSE AFFECTED AREAS UNTIL THE FLOW SUBSIDES.
- 18.CULTURAL RESOURCES MONITORING WILL BE COMPLETED BY THE PROJECT REPRESENTATIVE DURING CONSTRUCTION. WORK WILL BE STOPPED IMMEDIATELY IF HUMAN REMAINS OR ARTIFACTS ARE DISCOVERED.

SURVEY NOTES:

1. PARCEL ID NUMBERS FROM KING COUNTY GIS CENTER. DATA COMPILED IN 2016. OBTAINED DECEMBER 6, 2020 FROM AGENCY WEBSITE:
HTTP://KINGCOUNTY.GOV/SERVICES/GIS/MAPS/PARCEL-VIEWER.ASPX
2. PROPERTY BOUNDARY ON REVETMENT DRAWING SHEETS TAKEN FROM CITY OF SNOQUALMIE GIS DATABASE DATED 2014.
- HORIZONTAL DATUM:
THE HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83/91, WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN).
- VERTICAL DATUM:
THE VERTICAL DATUM FOR THIS SURVEY IS NAVD 88 FEET, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN).
- GROUND SURVEY** NOTES:
1. CONTROL SURVEY PERFORMED BY KPFF USING RTK METHODS WITH THE USE OF TOPCON GR5 GPS RECEIVERS, TOPOGRAPHIC AND SUPPLEMENTAL CONTROL PERFORMED USING CONVENTIONAL METHODS WITH THE USE OF TOPCON PS 101 ROBOTIC TOTAL STATION.
2. THE WORK PERFORMED DURING THE COURSE OF THIS SURVEY MEETS OR EXCEEDS THE STANDARDS AS SET FORTH IN WAC 332-130-090.
3. SURVEY WORK COMPLETED IN MAY 2017.
- TOPOBATHYMETRIC LIDAR & BATHYMETRIC SURVEY** NOTES:
1. RIVERBED AND BANK CONDITIONS CHANGE FREQUENTLY. THE BATHYMETRIC SURVEY IS REPRESENTATIVE OF THE CONDITIONS AS THEY EXISTED AT THE TIME OF SURVEY ONLY.
2. THE SURVEY WAS PERFORMED USING A COMBINATION OF TOPOBATHYMETRIC LIDAR BY QUANTUM SPATIAL, AND AN INTEGRATED SINGLE-BEAM HYDROGRAPHIC SYSTEM USING NETWORK RTK BY NORTHWEST HYDRAULIC CONSULTANTS.
3. HYDROGRAPHIC POINTS OBTAINED ON THIS PROJECT WERE COLLECTED BY A COMBINATION TOPOBATHYMETRIC LIDAR, AND A SONARMITE MILSPEC SINGLE BEAM ECHO SOUNDER WITH A 200KHZ, 4 DEGREE BEAM WIDTH TRANSDUCER WITH A STATED ACCURACY OF 1CM + 0.1% DEPTH, INTEGRATED WITH NETWORK RTK FOR POSITON AND ALTITUDE.
4. ALL BATHYMETRIC SURVEY WORK OCCURRED BETWEEN JANUARY AND MARCH, 2019.
5. UPDATED BANKLINE SURVEY AND AERIAL PHOTOGRAMMETRY SURVEY PERFORMED ON FEBRUARY 25, 2023 BY NORTHWEST HYDRAULIC CONSULTANTS.



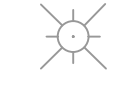
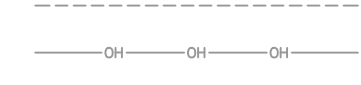







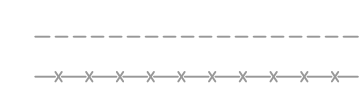
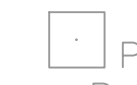



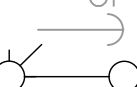


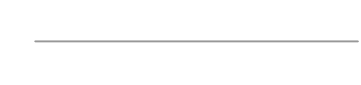
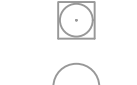
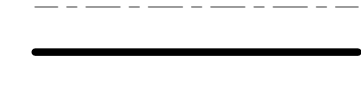





























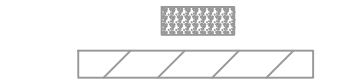

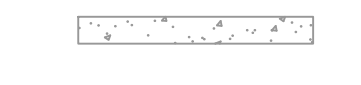




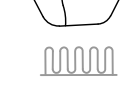















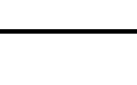


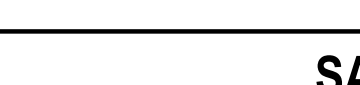




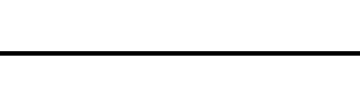

TESC NOTES:

1. SEE SHEETS G0.00 & G0.01 FOR ABBREVIATIONS, EXISTING FEATURE LEGEND AND GENERAL NOTES.
2. FIELD LOCATE TESC CONTROLS TO ADJUST TO CHANGING SITE CONDITIONS AND CONSTRUCTION PROGRESS.
3. PROVIDE PROTECTION IN ALL DOWNSTREAM INLETS AND CATCH BASINS WITHIN 500 FEET OF THE APPROXIMATE LIMIT OF WORK/CONSTRUCTION.
4. PREVENT EROSION FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF PERIMETER CONTROLS SUCH AS FILTER FABRIC FENCE, COMPOST SOCKS, STRAW WATTLES, INTERCEPTOR DITCHES OR BERMS.
5. REMOVE AND DISPOSE OF ALL TESC MEASURES AT THE COMPLETION OF THE PROJECT WHEN ALL DISTURBED AREAS HAVE BEEN FULLY AND FINALLY STABILIZED. RESTORE STAGING AREA TO APPROXIMATELY MATCH EXISTING GRADES AT END OF CONSTRUCTION.
6. EXPOSED AND UNWORKED AREAS SHALL BE STABILIZED WITH MULCHING, NETS AND BLANKETS, PLASTIC COVERING, OR OTHER BEST MANAGEMENT PRACTICES APPROVED BY THE DEPARTMENT OF ECOLOGY. NO SOILS SHALL REMAIN EXPOSED OR UNWORKED FOR MORE THAN 7 DAYS.
7. PREPARE STAGING AREA WITH TEMPORARY SURFACE STABILIZATION MEASURES TO FACILITATE USE OF HEAVY EQUIPMENT. REMOVE ALL STABILIZATION MEASURES AFTER CONSTRUCTION.
8. WETLAND BOUNDARY BASED ON THE WETLAND DELINEATION CONDUCTED BY 48 NORTH ON NOVEMBER 18, 2021.
9. MORE STRINGENT WET-SEASON TESC REQUIREMENTS WILL APPLY BEGGINNING OCTOBER 1. WET-SEASON REQUIREMENTS ARE IN KCSWDM D.2.4.2.
10. ALL OF PROJECT SITE IS IN THE FEMA FLOODPLAIN. ALL BUT A SMALL PORTION OF THE STAGING AREA IS IN THE FEMA REGULATORY FLOODWAY AS SHOWN ON SHEET SC1.01.
11. NO EQUIPMENT SHALL BE OPERATED OFF OF THE WOOD STRAND MULCH ACCESS ROAD AND WORK PAD EXCEPT FOR CLEARING AND GRUBBING AND FINAL SITE RESTORATION.




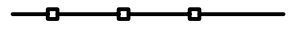
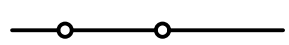


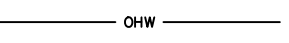

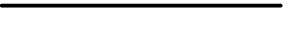
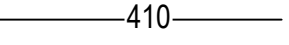
LEGENDS:

1. THESE SYMBOLS, LINETYPES AND ABBREVIATIONS APPLY TO THE ENTIRE SET OF SHEETS
2. LISTING OF SYMBOLS, LINETYPES, AND ABBREVIATIONS DOES NOT IMPLY THAT ALL ARE USED IN THE SHEETS

SURVEY LEGEND:

	FOUND MONUMENT		BUILDING
	LUMINARE		OVERHANG
	JUNCTION BOX		OVERHEAD UTILITY
	POWER POLE		GUARDRAIL
	SERVICE POLE		CONCRETE
	UTILITY POLE		EDGE PAVEMENT
	POWER TRANSFORMER		RAILROAD TRACK
	POWER VAULT		ROAD PAINT
	POWER METER		FACE OF CURB
	GUY POLE		GRAVEL
	ANCHOR		FENCE
	POLE WITH LIGHT		PORCH
	LIGHT JUNCTION BOX		LANDSCAPE
	SIGNAL POLE		RETAINING WALL
	TELEPHONE MANHOLE		FACE OF CURB
	TELEPHONE VAULT		ROCKERY
	TELEPHONE PEDESTAL		WOOD
	TELEVISION PEDESTAL		PROPOSED TRAIL
	TELEVISION MANHOLE		WETLAND BOUNDARY
	HYDRANT		STORM
	WATER METER		UNDERGROUND POWER
	WATER-01		GAS
	WATER VAULT		WATER
	WATER VALVE		SANITARY PIPE
	IRRIGATION VALVE		BREAKLINE
	WATER FOUNTAIN		TOP
	GAS METER		TOE
	GAS VALVE		DITCH
	SSWR-03		RAILROAD RIGHT OF WAY
	SANITARY SEWER MANHOLE		RIGHT OF WAY
	SANITARY SEWER CLEANOUT		APPROXIMATE SHORELINE
	STORM DRAIN MANHOLE		VACATED
	CATCH BASIN		LOT
	POST		CL RR
	HEDGE		PROPERTY LINE
	BOLLARD		EXISTING MAJOR CONTOUR (10 FT)
	SHRUB		EXISTING MINOR CONTOUR (2 FT)
	BOULDER		EXISTING GRADE PROFILE
	BIKE RACK		CONCRETE WALK
	HANDICAP PARKING		CONCRETE
			ASPHALT
			LANDSCAPE
			ORDINARY HIGH WATER MARK
			HANDICAP
			BUILDING HATCH
			CONCRETE HATCH
			SIGN
			BUSH
			CONIFER
			DECIDUOUS
			WETLAND FLAG

PROPOSED LEGEND:

	LIMITS OF WORK
	PROPERTY LINE
	HI-VS SILT FENCE
	SECURITY FENCE
	TURBIDITY CURTAIN
	ORDINARY HIGH WATER LINE
	PROPOSED MAJOR CONTOUR (10FT)
	PROPOSED MINOR CONTOUR (2FT)
	FLOW DIRECTION ARROW
	QUARRY SPALL
	WOOD STRAND MULCH

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NOTES:

1. EXISTING CONTOURS BASED ON LIDAR PROVIDED BY KING COUNTY (DATED MARCH 21, 2019) AND A RIVERBED SURVEY DATED MARCH 29, 2019 BY NHC
2. AERIAL IMAGERY TAKEN FEBRUARY 24, 2023.
3. ORDINARY HIGH WATER MARK (OHW) BASED ON FIELD SURVEY BY NHC, DATED FEBRUARY 24, 2023.

SE 1/4 SEC. 30 T. 24 N, R 8 E.



LEGEND

2005 Bankline	
2016 Bankline	
2019 Bankline	
2021 Bankline	
2022 Bankline	
2023 Bankline/ Ordinary High Water	OHW

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY ARW	DESIGNED BY VC/CLB
CHECKED BY CLB	APPROVED BY VC/CLB
DATE July 31, 2023	
JOB No.: 2003862	



SCALE:
AS SHOWN

38624 SE River Street
P.O. Box 987
Snoqualmie, WA 98065
Phone: (425) 888-1555



SANDY COVE PARK BANK RESTORATION PHASE 1
SNOQUALMIE, WA

EXISTING CONDITIONS

SHEET

R2.01

1. ORDINARY HIGH WATER MARK (OHW) BASED ON FIELD SURVEY BY NHC, DATED FEBRUARY 24, 2023.

OHW (EL 412.0)
AND LOCATION OF
CURRENT BANKLINE
(FEBRUARY 2023)

WETLAND BOUNDARY
(TYP)

CD

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ADMIRAL ENTERPRISES

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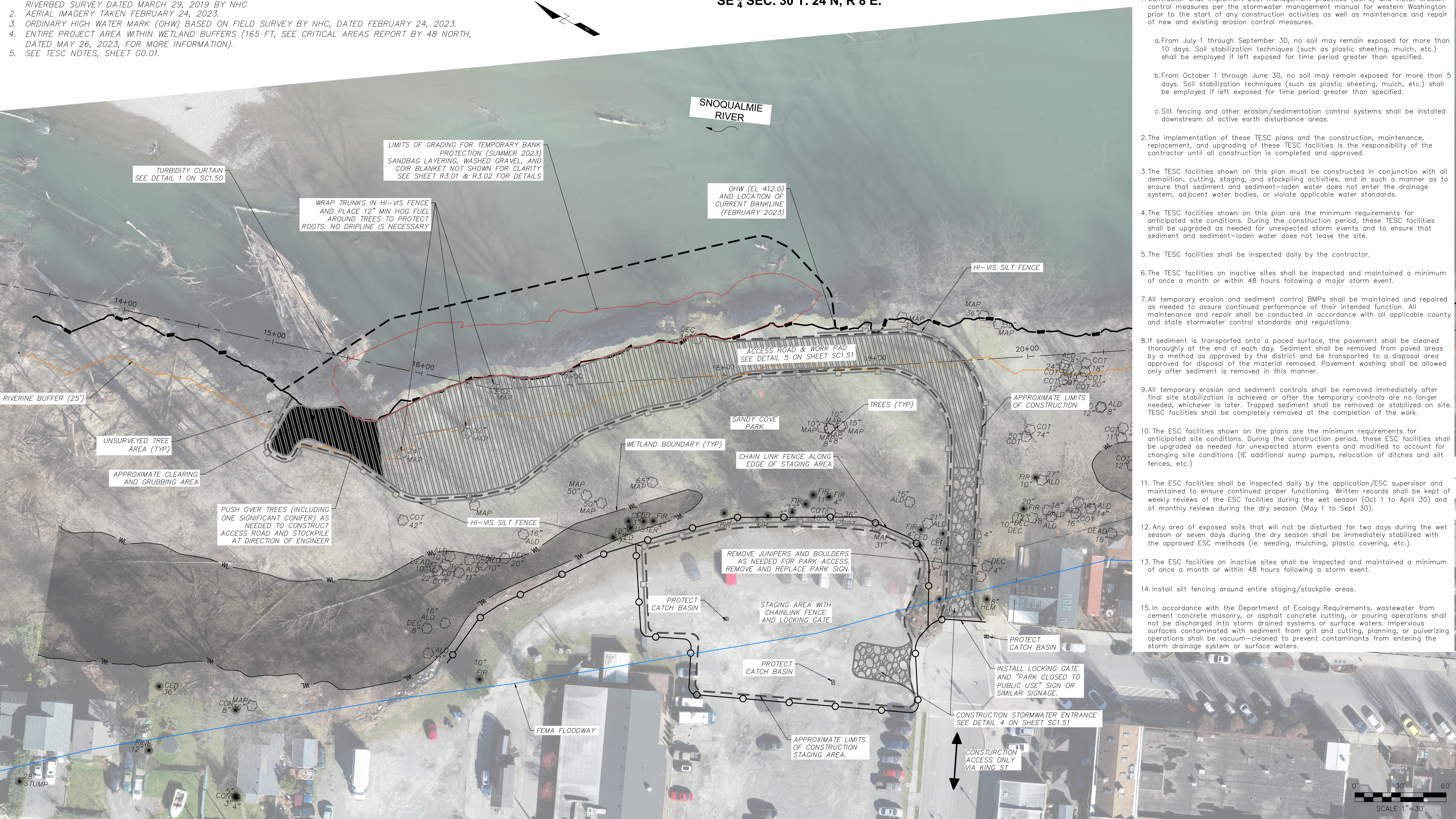
NOTES:

- EXISTING CONTOURS BASED ON LIDAR PROVIDED BY KING COUNTY (DATED MARCH 21, 2019) AND A RIVERBED SURVEY DATED MARCH 29, 2019 BY NHC
- AERIAL IMAGERY TAKEN FEBRUARY 24, 2023.
- ORDINARY HIGH WATER MARK (OHW) BASED ON FIELD SURVEY BY NHC, DATED FEBRUARY 24, 2023.
- ENTIRE PROJECT AREA WITHIN WETLAND BUFFERS (165 FT, SEE CRITICAL AREAS REPORT BY 48 NORTH, DATED MAY 26, 2023, FOR MORE INFORMATION).
- SEE TESC NOTES, SHEET G0.01.

SE ¼ SEC. 30 T. 24 N, R 8 E.

TESC CONSTRUCTION SEQUENCE:

- Contractor shall implement best management practices (BMPs) and install erosion control measures per the stormwater management manual for western Washington prior to the start of any construction activities as well as maintenance and repair of new and existing erosion control measures.
 - From July 1 through September 30, no soil may remain exposed for more than 10 days. Soil stabilization techniques (such as plastic sheeting, mulch, etc.) shall be employed if left exposed for time period greater than specified.
 - From October 1 through June 30, no soil may remain exposed for more than 5 days. Soil stabilization techniques (such as plastic sheeting, mulch, etc.) shall be employed if left exposed for time period greater than specified.
 - Silt fencing and other erosion/sedimentation control systems shall be installed downstream of active earth disturbance areas.
- The implementation of these TESC plans and the construction, maintenance, replacement, and upgrading of these TESC facilities is the responsibility of the contractor until all construction is completed and approved.
- The TESC facilities shown on this plan must be constructed in conjunction with all demolition, cutting, staging, and stockpiling activities, and in such a manner as to ensure that sediment and sediment-laden water does not enter the drainage system, adjacent water bodies, or violate applicable water standards.
- The TESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these TESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment and sediment-laden water does not leave the site.
- The TESC facilities shall be inspected daily by the contractor.
- The TESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within 48 hours following a major storm event.
- All temporary erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended function. All maintenance and repair shall be conducted in accordance with all applicable county and state stormwater control standards and regulations.
- If sediment is transported onto a paved surface, the pavement shall be cleaned thoroughly at the end of each day. Sediment shall be removed from paved areas by a method as approved by the district and be transported to a disposal area approved for disposal of the material removed. Pavement washing shall be allowed only after sediment is removed in this manner.
- All temporary erosion and sediment controls shall be removed immediately after final site stabilization is achieved or after the temporary controls are no longer needed, whichever is later. Trapped sediment shall be removed or stabilized on site. TESC facilities shall be completely removed at the completion of the work.
- The ESC facilities shown on the plans are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and modified to account for changing site conditions (IE additional sump pumps, relocation of ditches and silt fences, etc.)
- The ESC facilities shall be inspected daily by the application/ESC supervisor and maintained to ensure continued proper functioning. Written records shall be kept of weekly reviews of the ESC facilities during the wet season (Oct 1 to April 30) and of monthly reviews during the dry season (May 1 to Sept 30).
- Any area of exposed soils that will not be disturbed for two days during the wet season or seven days during the dry season shall be immediately stabilized with the approved ESC methods (ie. seeding, mulching, plastic covering, etc.).
- The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within 48 hours following a storm event.
- Install silt fencing around entire staging/stockpile areas.
- In accordance with the Department of Ecology Requirements, wastewater from cement concrete masonry, or asphalt concrete cutting, or pouring operations shall not be discharged into storm drained systems or surface waters. Impervious surfaces contaminated with sediment from grit and cutting, planning, or pulverizing operations shall be vacuum-cleaned to prevent contaminants from entering the storm drainage system or surface waters.



NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY ARW	DESIGNED BY VC/CLB
CHECKED BY CLB	APPROVED BY VC/CLB
DATE July 31, 2023	
JOB No.: 2003862	



Call 811
two business days
before you dig

SCALE:
AS SHOWN

38624 SE River Street
P.O. Box 987
Snoqualmie, WA 98065
Phone: (425) 888-1555



northwest hydraulic
consultants

12787 gateway drive south
lukwila, washington 98168-3308
phone: (206) 241-6000
fax: (206) 439-2420
www.nhcnweb.com

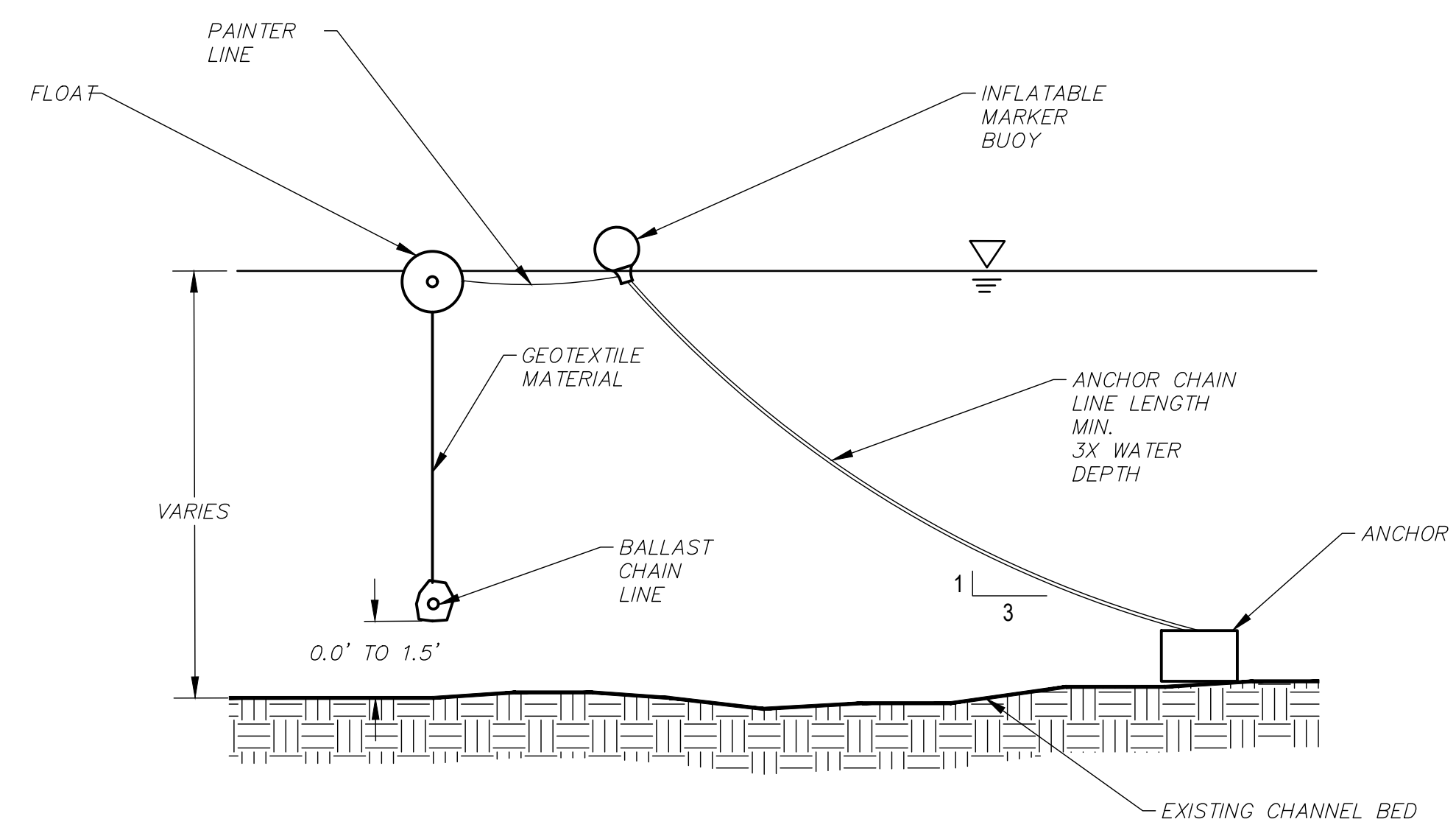
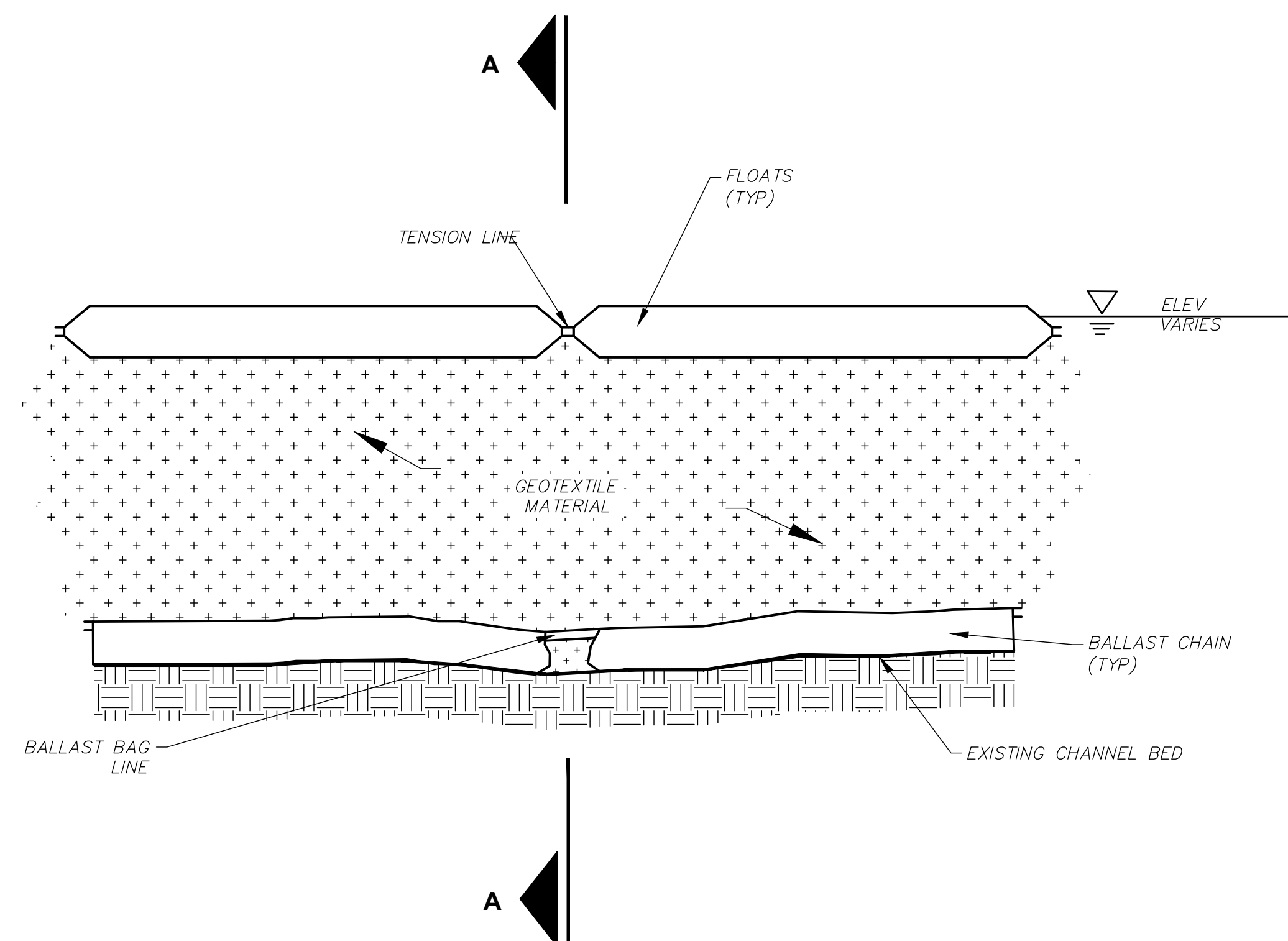
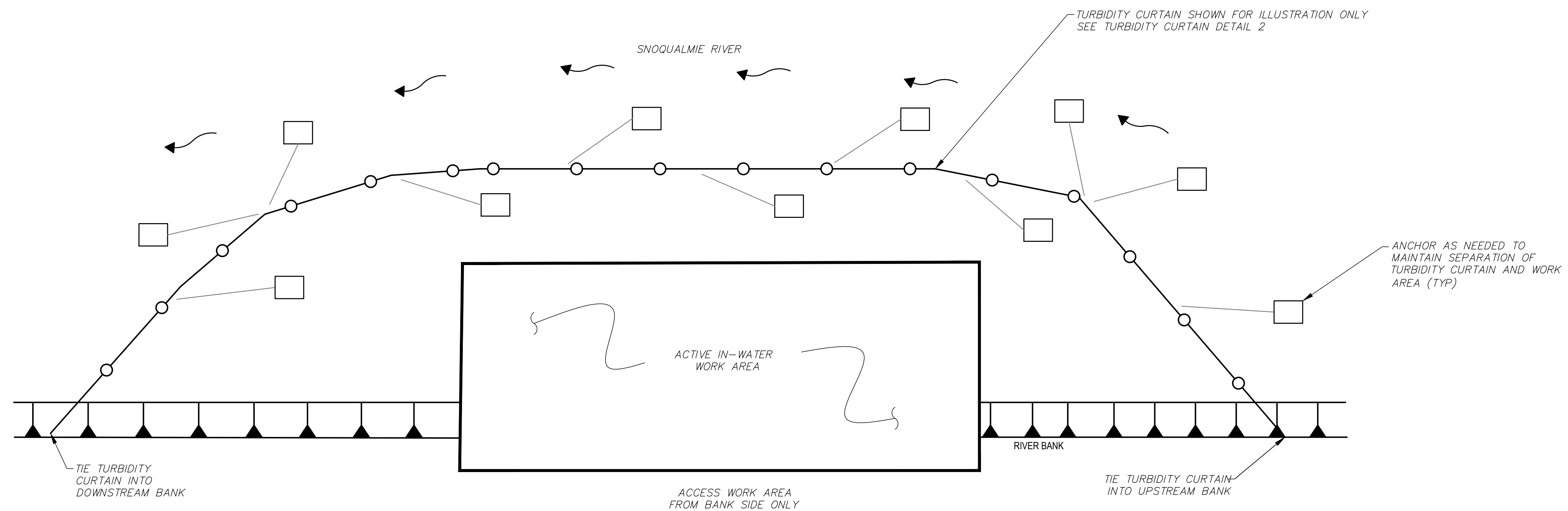


SANDY COVE PARK BANK RESTORATION PHASE 1
SNOQUALMIE, WA

TEMPORARY SEDIMENT & EROSION CONTROL, STAGING & ACCESS

SHEET

SC1.01



						DRAWN BY ARW	DESIGNED BY VC/CLB	   	SANDY COVE PARK BANK RESTORATION PHASE 1 SNOQUALMIE, WA	SHEET
						CHECKED BY CLB	APPROVED BY VC/CLB		TEMPORARY EROSION & SEDIMENT CONTROL DETAILS	SC1.50
						DATE July 31, 2023				
NO.	DATE	BY	CHD.	APPR.	REVISION	JOB No. : 2003862	SCALE: AS SHOWN	12787 gateway drive south Tukwila, washington 98168-3308 phone: (206) 241-6900 fax: (206) 438-2420 www.nhoweb.com		

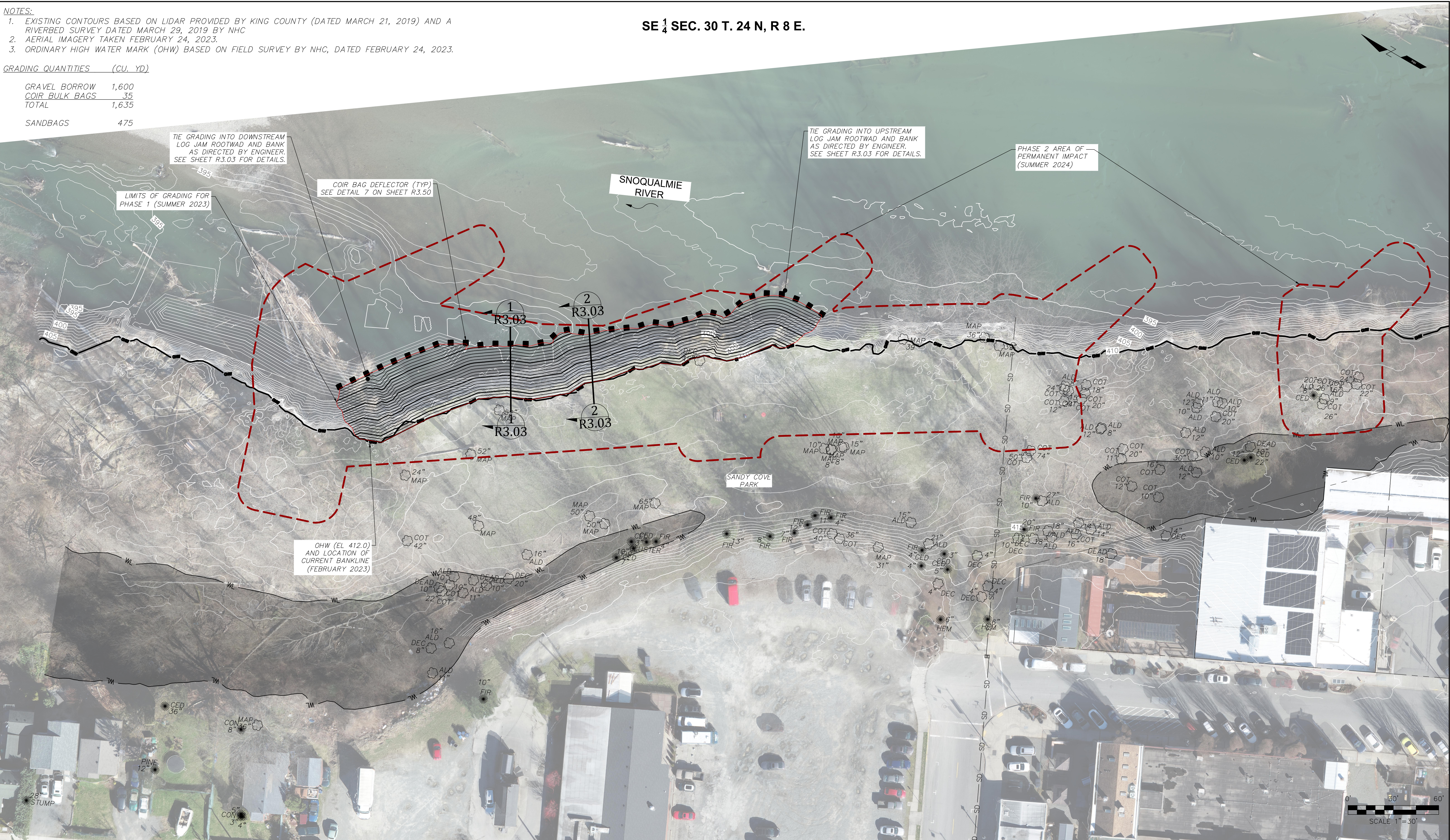


						DRAWN BY ARW	DESIGNED BY VC/CLB		 3804 SE River Street P.O. Box 987 Snoqualmie, WA 98065 Phone: (206) 241-6000 Fax: (206) 438-2420 www.nhcweb.com	 12787 gateway drive south Tukwila, Washington 98168-3308 phone: (206) 241-6000 fax: (206) 438-2420 www.nhcweb.com		SANDY COVE PARK BANK RESTORATION PHASE 1					SHEET
					CHECKED BY CLB	APPROVED BY VC/CLB	SNOQUALMIE, WA					SC1.5'					
					DATE July 31, 2023		TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS										
NO.	DATE	BY	CHD.	APPR.	REVISION	J O B No. : 2003862	SCALE: AS SHOWN										

- NOTES:
- EXISTING CONTOURS BASED ON LIDAR PROVIDED BY KING COUNTY (DATED MARCH 21, 2019) AND A RIVERBED SURVEY DATED MARCH 29, 2019 BY NHC
 - AERIAL IMAGERY TAKEN FEBRUARY 24, 2023.
 - ORDINARY HIGH WATER MARK (OHW) BASED ON FIELD SURVEY BY NHC, DATED FEBRUARY 24, 2023.

GRADING QUANTITIES (CU. YD)

GRAVEL BORROW	1,600
COIR BULK BAGS	35
TOTAL	1,635
SANDBAGS	475



NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY ARW	DESIGNED BY CLB
CHECKED BY CLB	APPROVED BY VC/CLB
DATE July 31, 2023	
JOB No.: 2003862	

811 Call 811
two business days
before you dig

SCALE:
AS SHOWN

CITY OF SNOQUALMIE

38624 SE River Street
P.O. Box 987
Snoqualmie, WA 98065
Phone: (425) 888-1555

nhc
northwest hydraulic
consultants

12787 gateway drive south
lukwila, washington 98168-3308
phone: (206) 241-6000
fax: (206) 439-2420
www.nhcweb.com

VAUGHN D. COLLIER
STATE OF WASHINGTON
P.E. 2769
PROFESSIONAL ENGINEER

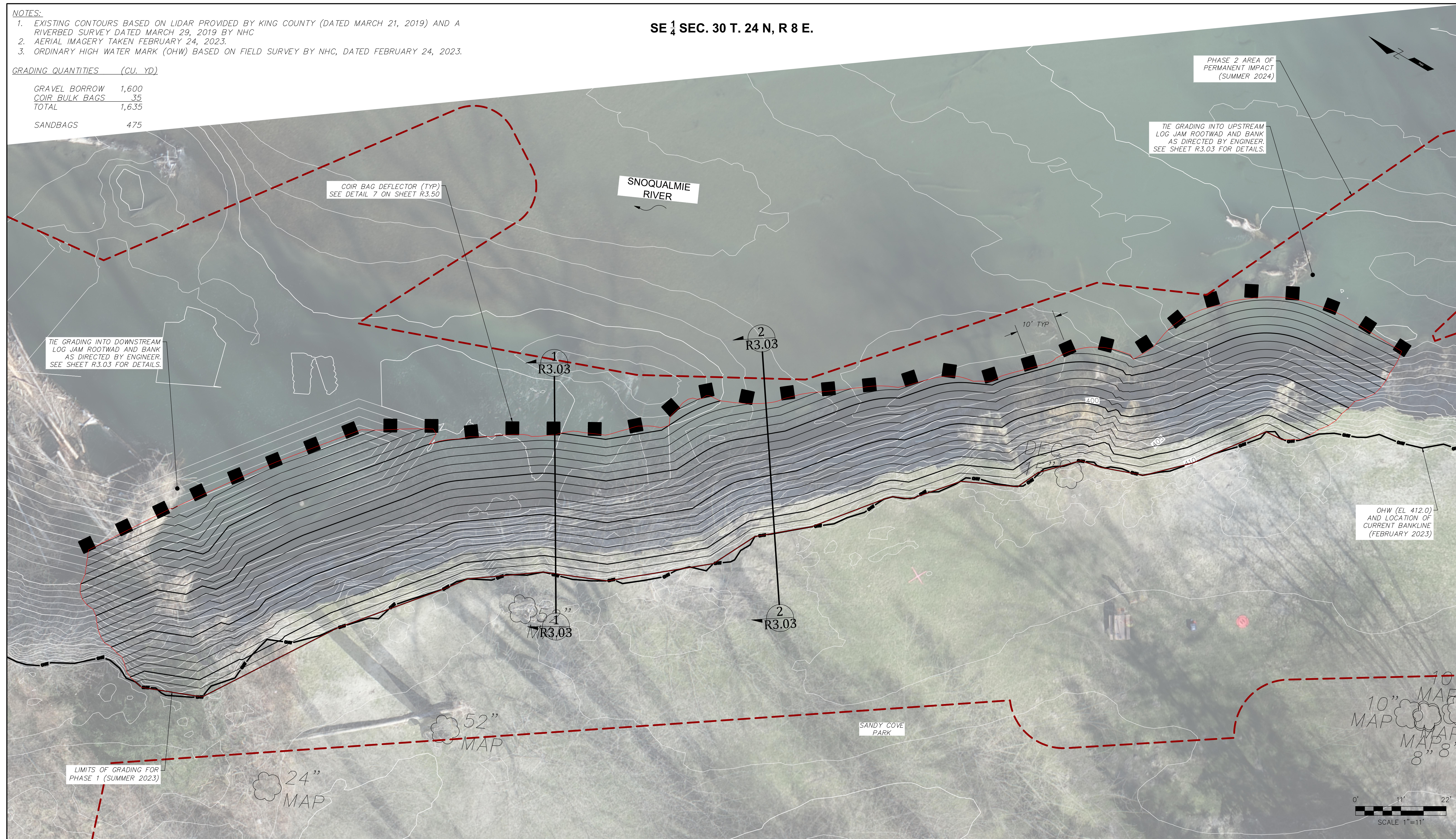
SANDY COVE PARK BANK RESTORATION PHASE 1 SNOQUALMIE, WA	
GRADING PLAN OVERVIEW	

SHEET
R3.01

1. EXISTING CONTOURS BASED ON LIDAR PROVIDED BY KING COUNTY (DATED MARCH 21, 2019) AND A RIVERBED SURVEY DATED MARCH 29, 2019 BY NHC
2. AERIAL IMAGERY TAKEN FEBRUARY 24, 2023.
3. ORDINARY HIGH WATER MARK (OHWM) BASED ON FIELD SURVEY BY NHC, DATED FEBRUARY 24, 2023.

GRAVEL BORROW	1,600
COIR BULK BAGS	<u>35</u>
TOTAL	1,635
SANDBAGS	475

SE $\frac{1}{4}$ SEC. 30 T. 24 N, R 8 E.

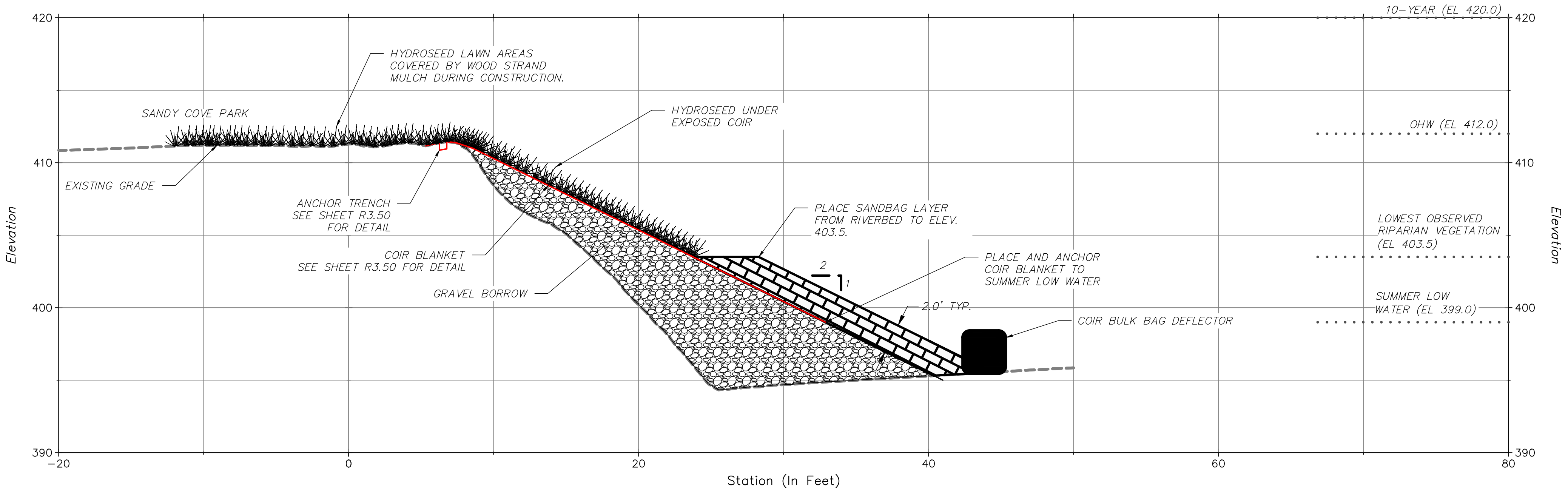


					DRAWN BY ARW		DESIGNED BY CLB										SANDY COVE PARK BANK RESTORATION PHASE 1						SHEET	
					CHECKED BY CLB		APPROVED BY VC/CLB										SNOQUALMIE, WA							
					DATE July 31, 2023												GRADING PLAN						R3.02	
					JOB No. : 2003862																			
NO. DATE BY CHD. APPR. REVISION							SCALE: AS SHOWN																	

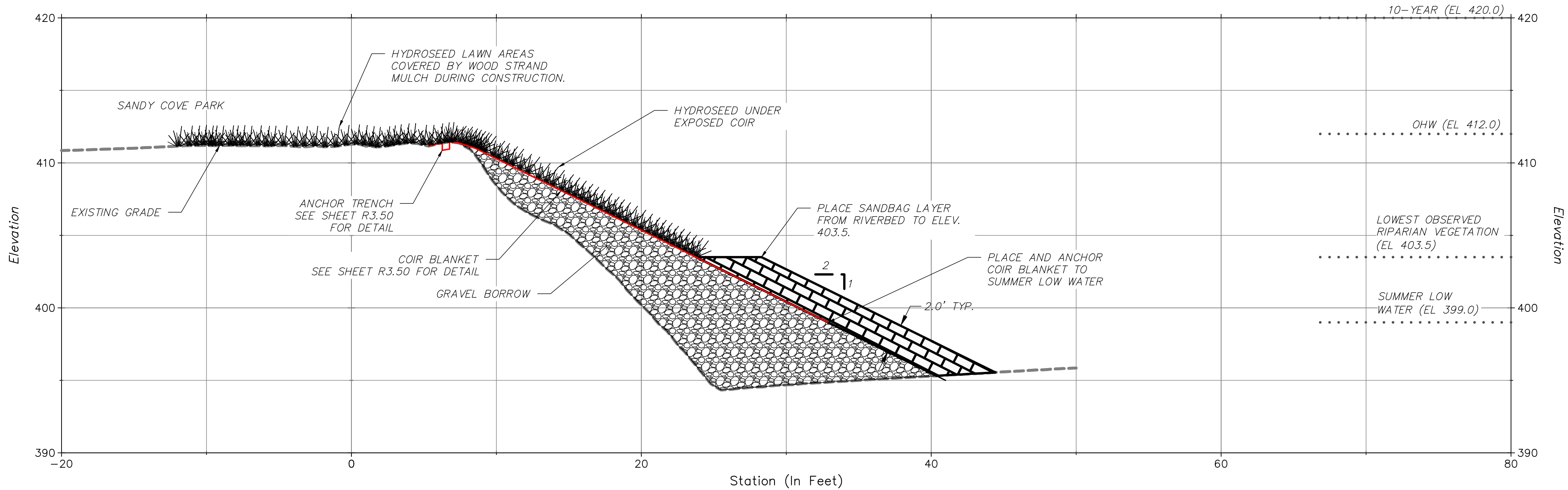
- SUGGESTED CONSTRUCTION SEQUENCING:
1. INSTALL ACCESS, SECURITY, AND TESC MEASURES.
 2. REMOVE ANY TURF BLOCKS, SMALL TREES, BORKEN CULVERTS, OR ORGANIC MATERIAL FROM THE CHANNEL AND BANKS WITHIN THE LIMITS OF PROPOSED FILL.
 3. PLACE GRAVEL BORROW TO ABOVE WATER LEVEL AND USE AS A WORK PLATFORM. WORK FROM UPSTREAM TO DOWNSTREAM.
 4. INSTALL COIR BULK BAGS AND SANDBAGS PER THE DRAWINGS. ANCHOR THE LOWER END OF THE COIR EROSION CONTROL FABRIC UNDER THE SANDBAGS PER THE DRAWINGS AND LEAVE THE EXPOSED LENGTHS ROLLED UP ON TOP OF THE SANDBAGS.
 5. PLACE THE REMAINING GRAVEL BORROW AND SANDBAGS TO THE TOP OF BANK.
 6. HYDROSEED THE UPPER BANK, THEN COVER WITH THE COIR EROSION CONTROL FABRIC, ANCHOR AT THE TOP OF BANK, AND SECURE IN PLACE.
 7. REMOVE TESC MEASURES, INCLUDING THE WOOD STRAND MULCH ACCESS ROAD, AND WORK PAD AND UNDERLYING GEOTEXTILE. THE ROCK CONSTRUCTION ENTRANCE SHALL NOT BE REMOVED. REMOVE STAGING AREA FENCING.
 8. RESTORE THE STAGING AREAS AND CONSTRUCTION AREA INCLUDING HYDROSEEDING OF LAWN AREAS.

MATERIAL SPECIFICATIONS:

ITEM	WSDOT STANDARD SPECIFICATON NUMBER	PROJECT SPECIFICATION												
COIR EROSION CONTROL FABRIC		100% COIR, 700 g/m ² , 4 M (13 FT) WIDE ROLLS												
COIR BULK BAG FABRIC		100% COIR, 900 g/m ² , 4 M (13 FT) WIDE ROLLS												
ROPE		100% NATURAL MANILA HEMP, 5/8" DIAMETER												
SANDBAGS		BURLAP OR OTHER NATURAL FIBER MATERIAL, WITH TIES, MIN 14X26 INCHES.												
SEED		DEPT OF ECOLOGY TEMPORARY EROSION CONTROL SEED MIX (TABLE II-3.4, SWMMWW) OR SIMILAR												
WOOD STRAND MULCH	9-14.5(4)													
GRAVEL BORROW	9-03.11	<table><tr><td>SIEVE SIZE</td><td>% PASSING</td></tr><tr><td>6"</td><td>99-100</td></tr><tr><td>4"</td><td>75-90</td></tr><tr><td>2"</td><td>50-75</td></tr><tr><td>#4</td><td>20-60</td></tr><tr><td>#200</td><td>5.0 MAX</td></tr></table>	SIEVE SIZE	% PASSING	6"	99-100	4"	75-90	2"	50-75	#4	20-60	#200	5.0 MAX
SIEVE SIZE	% PASSING													
6"	99-100													
4"	75-90													
2"	50-75													
#4	20-60													
#200	5.0 MAX													
SANDBAG FILL		SAND OR GRAVELLY SAND WITH NATURALLY SOURCED, WATER ROUNDED PARTICLES. MAX SIZE: 2.5". MIN SAND EQUIVALENT: 50% MAX PERCENT PASSING #200 SIEVE: 5.0%												

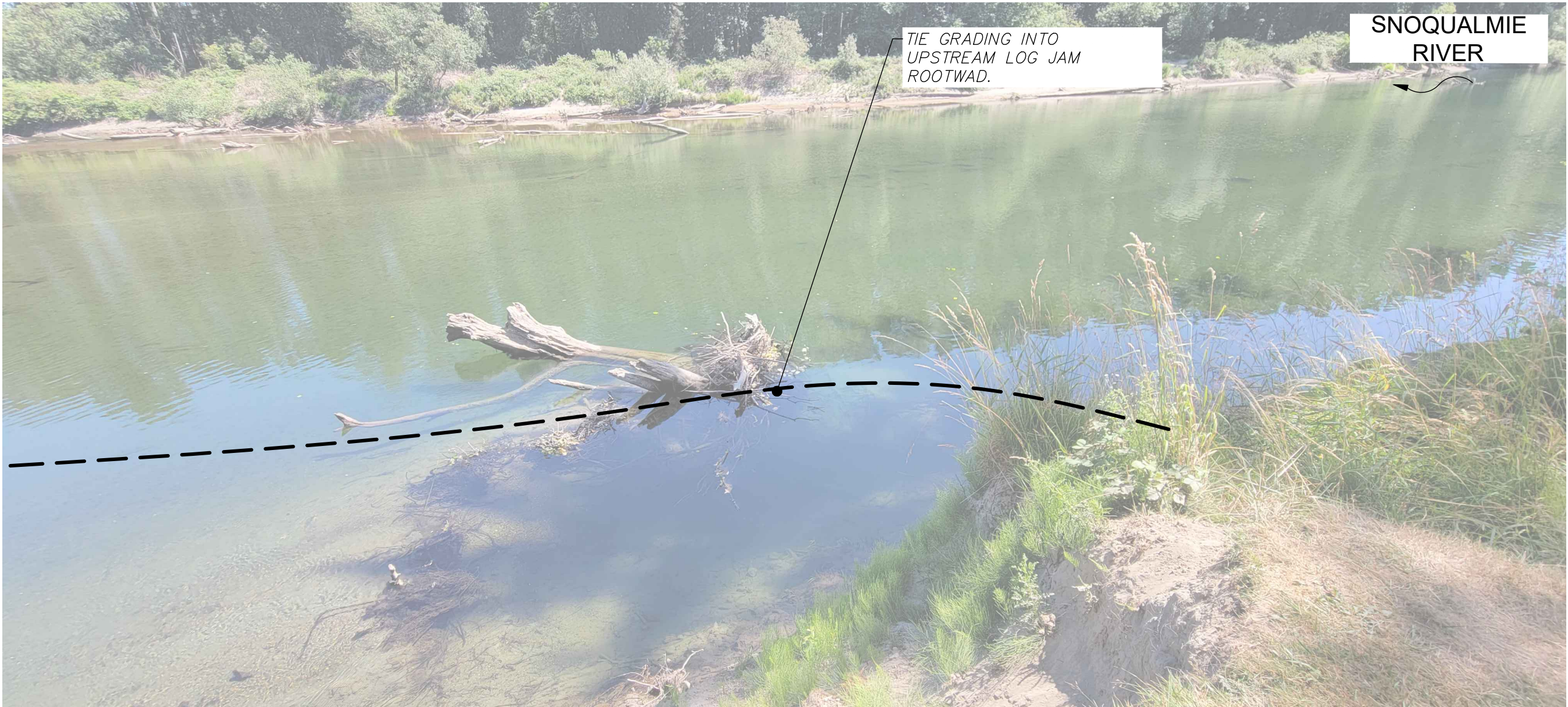


1 SECTION - TEMPORARY BANK STABILIZATION & COIR BULK BAG FLOW DEFLECTOR
1V: 2H



2 SECTION - TEMPORARY BANK STABILIZATION
1V: 2H

					DRAWN BY ARW	DESIGNED BY CLB	 Call 811 two business days before you dig	 38624 SE River Street P.O. Box 987 Snoqualmie, WA 98065 Phone: (425) 888-1555	 northwest hydraulic consultants 12787 gateway drive south lukwila, washington 98168-3308 phone: (206) 241-6000 fax: (206) 439-2420 www.nhcnweb.com	 VAUGHN D. COLLIER P.E. 2769 REGISTERED PROFESSIONAL ENGINEER	SANDY COVE PARK BANK RESTORATION PHASE 1 SNOQUALMIE, WA					SHEET
					CHECKED BY CLB	APPROVED BY VC/CLB					SECTIONS					R3.03
					DATE July 31, 2023											
NO.	DATE	BY	CHD.	APPR.	REVISION						J O B No. : 2003862		SCALE: AS SHOWN			



- NOTES:**
- 1. IMAGERY TAKEN JULY 14, 2023.
 - 2. ORDINARY HIGH WATER MARK (OHW) BASED ON FIELD SURVEY BY NHC, DATED FEBRUARY 24, 2023.



						DRAWN BY ARW	DESIGNED BY CLB	<div>811 Call 811 two business days before you dig</div>	<div>CITY OF SNOQUALMIE</div> <div>38624 SE River Street P.O. Box 987 Snoqualmie, WA 98065 Phone: (425) 888-1555</div> <div>nhec northwest hydraulic consultants</div> <div>12787 gateway drive south lukwila, washington 98168-3308 phone: (206) 241-6000 fax: (206) 439-2420 www.nhcweb.com</div>	<div>VAUGHN D. COLLIER STATE OF WASHINGTON P.E. 2769 REGISTERED PROFESSIONAL ENGINEER 2023</div>	SANDY COVE PARK BANK RESTORATION PHASE 1 SNOQUALMIE, WA	SHEET
						CHECKED BY CLB	APPROVED BY VC/CLB				LOG JAM GRADING TIE-IN	R3.04
						DATE July 31, 2023						
NO.	DATE	BY	CHD.	APPR.	REVISION	J O B No. :	2003862	SCALE: AS SHOWN				

NOTES:

1. EROSION CONTROL BLANKET SHALL BE 700 g/m² COIR FABRIC.
2. MORE THAN THE MINIMUM OF ONE FASTENER PER SQUARE YARD MAY BE REQUIRED DUE TO CONDITIONS SUCH AS BLANKET COMPOSITION, SOIL TYPE, SURFACE UNIFORMITY, AND SLOPE STEEPNESS.
3. SEE WSDOT **STANDARD SPECIFICATION 8-01.3(3)**.
4. USE MANUFACTURER'S REQUIREMENTS. WHEN MANUFACTURER'S REQUIREMENTS ARE NOT PROVIDED, USE INSTALLING REQUIREMENTS SHOWN ON STANDARD PLANS.
5. ADDITIONAL STAKES MAY BE REQUIRED ON SLOPES GREATER THAN 3H : 1V.
6. FASTENERS SHALL BE 2" X 4" X MINIMUM 24" LONG WOODEN WEDGE STAKES

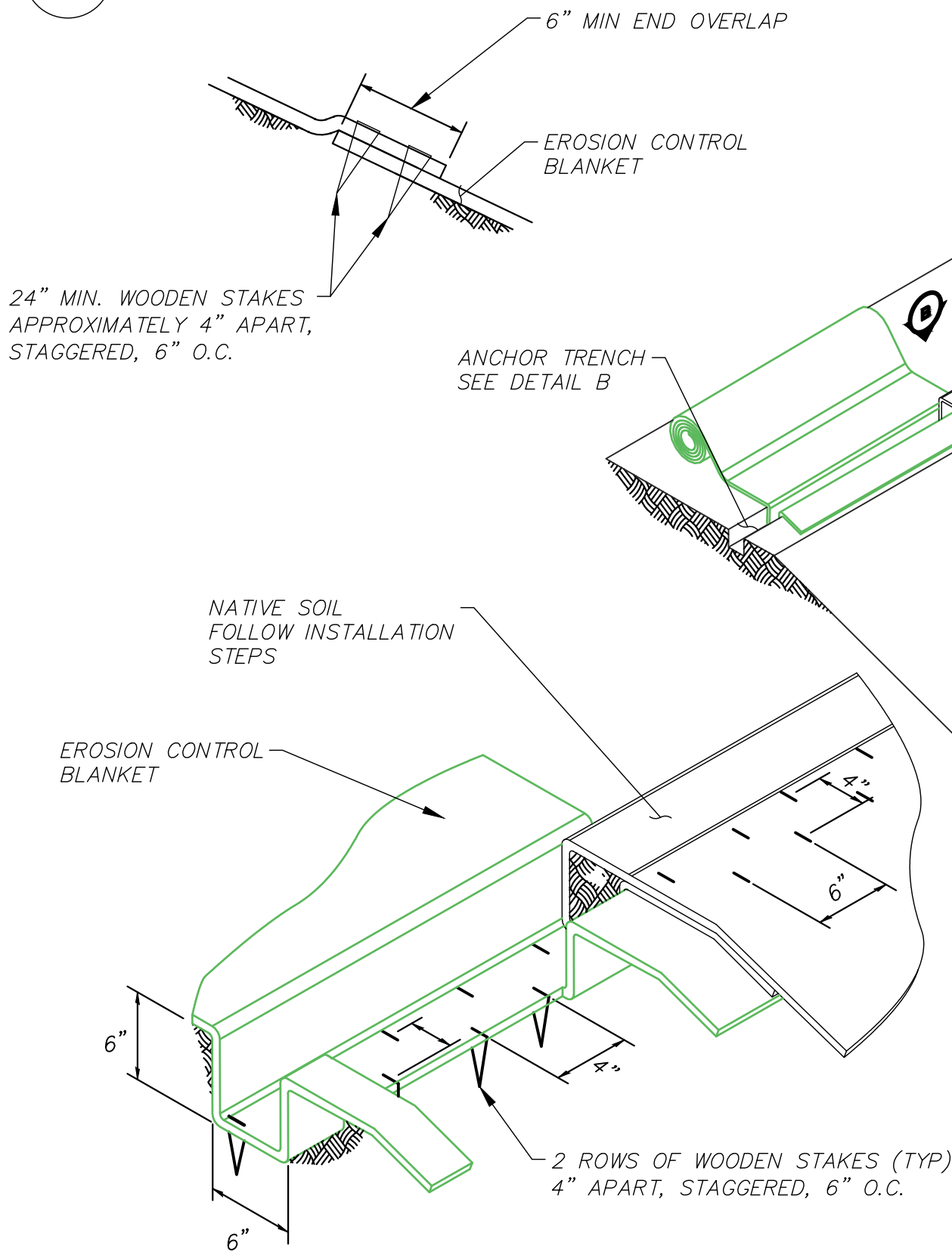
INSTALLATION STEPS:

1. PREPARE SMOOTH SLOPE.
2. AMEND SOIL AND SEED, AS SPECIFIED.
3. DIG ANCHOR TRENCH, SET ASIDE NATIVE SOIL REMOVED FROM TRENCH.
4. SECURE BLANKET IN ANCHOR TRENCH, STAKING BLANKET AS SHOWN.
5. REPLACE NATIVE SOIL PREVIOUSLY REMOVED FROM TRENCH.
6. ROLL BLANKET DOWN THE SLOPE IN A CONTROLLED MANNER, TAKING CARE TO REMOVE EXCESS SLACK AND TAKING CARE NOT TO STRETCH BLANKET.
7. STAKE OR BLANKET AS SHOWN SO THERE ARE NO GAPS BETWEEN THE BLANKET AND THE SOIL. STAPLE WHILE UNROLLING BLANKET TO MINIMIZE WALKING ON BLANKET.

COIR BULK BAG CONSTRUCTION STEPS

1. PLACE LIFTING STRAPS/CHAINS ON GROUND IN A GRID PATTERN WITH 3'-4' SPACING.
2. ROLL COIR FABRIC OVER STRAPS AND CUT ONE LAYER TO A SQUARE SHAPE (APPROXIMATELY 13'X13').
3. DUMP 1 C.Y. OF WASHED GRAVEL IN THE CENTER OF COIR FABRIC.
4. FOLD OPPOSITE EDGES OF COIR MAT TO THE CENTER OF WASHED GRAVEL PILE.
5. STITCH THE COIR MAT TOGETHER OVER THE PILE OF WASHED GRAVEL (APPROXIMATELY $\frac{1}{2}$ TO $\frac{3}{4}$ THE LENGTH OF COIR).
6. FOLD THE REMAINING EDGES TO THE CENTER OF WASHED GRAVEL.
7. BUNCH UP THE LOOSE ENDS OF COIR MAT AND WRAP A $\frac{3}{4}$ " MANILLA ROPE AROUND THE NECK 3 - 5 TIMES AND CINCH TIGHT WITH A KNOT.
8. TIE TOGETHER LIFTING ROPES.

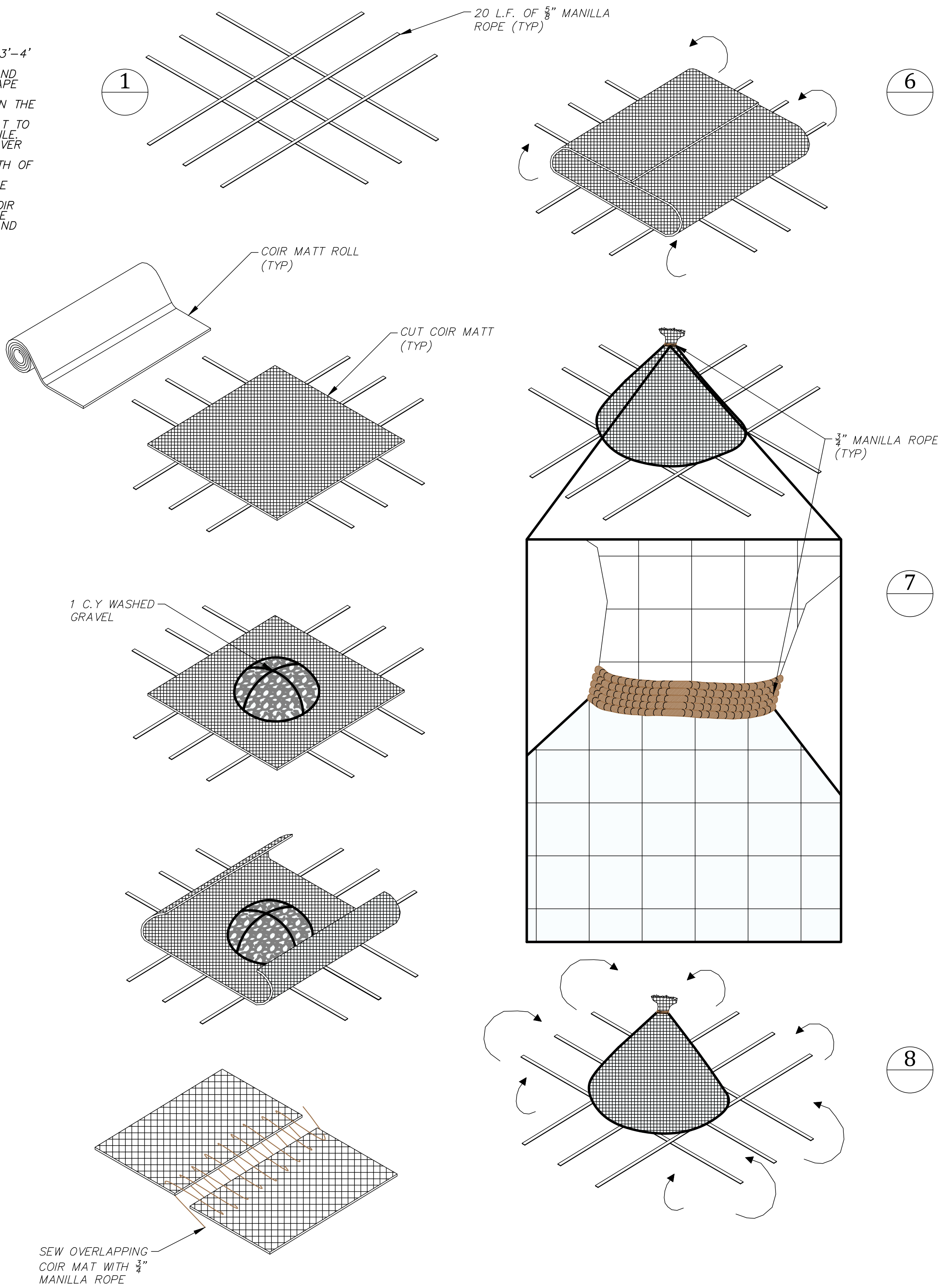
A SHINGLE SPLICE DETAIL
NOT TO SCALE



B INITIAL ANCHOR DETAIL
NOT TO SCALE

ISOMETRIC VIEW

6 COIR BLANKET DETAIL
NOT TO SCALE

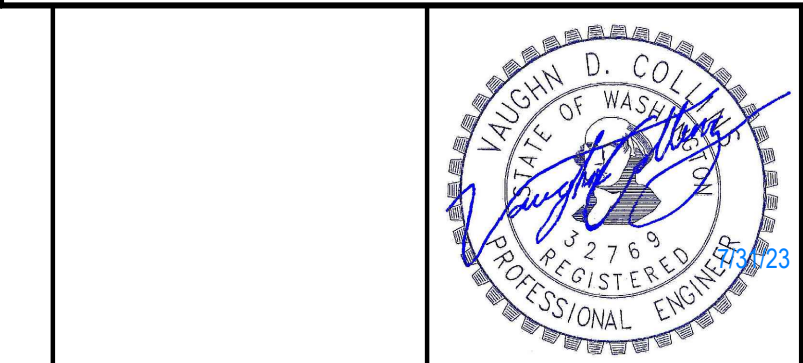
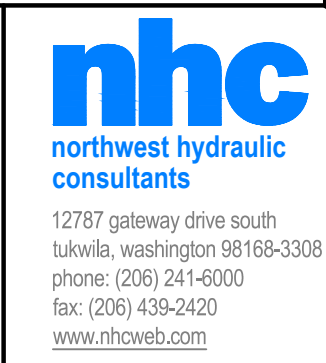
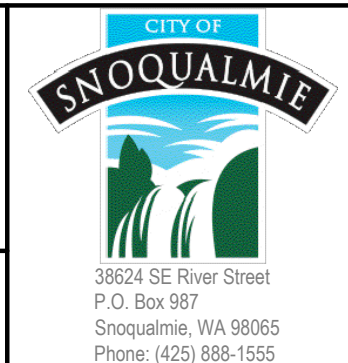


7 COIR BULK BAG DETAIL
NOT TO SCALE

NO.	DATE	BY	CHD.	APPR.	REVISION

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CHECKED BY CLB	APPROVED BY VC/CLB
DATE July 31, 2023	
JOB No.: 2003862	

811 Call 811 two business days before you dig
SCALE: AS SHOWN



SANDY COVE PARK BANK RESTORATION PHASE 1 SNOQUALMIE, WA	
COIR MAT & COIR BULK BAG DETAILS	

SHEET
R3.50