ADDENDUM NO. 1 North Bank Lane Tidal Floodplain Restoration Project – Phase 2

December 28, 2022

Owner: Coos County Soil and Water Conservation District (Coos SWCD)

Engineer: Waterways Consulting, Inc., 1020 SW Taylor St., Suite 380, Portland, Oregon, 97205

This Addendum forms a part of the Contract documents and modifies the original. Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the bidder to disqualification. The Bid due date and time has been adjusted to 5:00 PM local time on January 8, 2023. The opening and review of bids and award of any contracts shall be finalized on Jan. 26th, 2023, at the regularly January Meeting of the Board of Directors of the Coos SWCD. The Addendum consists of text and attachments listed. The mandatory pre-bid conference sign-in sheet is attached. Last day to submit questions has been extended to Dec 30th 2022.

Prepared by: Jake Hofeld, P.E. and Caley Sowers, District Manager

1. BID FORM

Replace the Bid Form dated 11/17/2022 with the attached bid form dated 12/22/2022.

2. 015713 TEMPORARY EROSION CONTROL AND BMPS

Depending on where you downloaded the original RFB, some file versions were found to have omitted the original Erosion and Sediment Control Plan. The original ESCP is included here. Please Note the following revisions: **On page 1, delete Paragraph 1.1.B. in its entirety and replace with the following:**

B. Attention is directed to the Erosion and Sediment Control Plan. The Owner will serve as the Certified Erosion and Sediment Control Lead for the DEQ 1200-C Construction Stormwater Permit during construction. As part of the ESCP submittal process, the Contractor shall submit on any proposed revisions to the applicable Project Plan sheets for Temporary Erosion Control and the Dewatering and/or Diversion operations. Do not start work until the SWPPP, applicable plan sheets, schedules, and methods of operation for temporary pollution control are reviewed and accepted by the Engineer. During project construction, cooperate with the Owner and Engineer and other regulatory officials and take immediate action as directed to protect water bodies and sensitive areas and provide for erosion or other pollution control.

6. DRAWING C11

Replace this sheet with the attached sheet C11 showing changes to the ESM Channel dimensions.

7. COMMENTS AND QUESTIONS

The following summarizes responses to comments and questions received by the Engineer and Owner during the pre-bid meeting and from correspondence with Bidders:

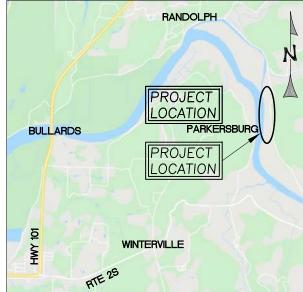
 The 19.0 acres of Seeding listed under Task 18 in the attached Bid Sheet include 2.9 acres of Berm Seeding and 16.1 acres of Pasture Seeding. + + END OF TEXT OF ADDENDUM 1 + +



NORTH BANK LANE TIDAL FLOODPLAIN RESTORATION PROJECT BID SHEET

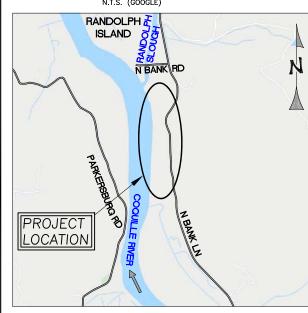
ITEM NO.	SPECIFICATION	ON ITEM ESTIMATE QUANTIT		UNIT	UNIT COST	TOTAL
1	015000	MOBILIZATION AND DEMOBILIZATION	1	LS		
2	015713	TEMPORARY EROSION CONTROL AND BMP'S	1	LS		
3	015626	CLEARING AND GRUBBING	1	LS		
4	312319	DEWATERING	1	LS		
5	312316	PRECONSTRUCTION POTHOLING	1	LS		
6	312316	UNCLASSIFIED EXCAVATION	13,110	CY		
7	312316	SUPPLEMENTAL EARTHWORK	20	HR		
8	312323	ENGINEERED FILL	5,891	CY		
9	334213	60 INCH DIAMETER HDPE PIPE	1	EA		
10	334213	48 INCH DIAMETER HDPE PIPE	1	EA		
11	334213	36 INCH DIAMETER HDPE PIPE	2	EA		
12	321123	AGGREGATE BASE	700	CY		
13	354237	CLASS 50 RIPRAP	79	CY		
13	354237	CLASS 200 RIPRAP	78	CY		
14	354237	ENGINEERED STREAMBED MATERIAL	130	CY(F)		
15	313519.16	SLOPE PROTECTION FABRIC	8,458	SY		
16	354200	SALVAGE AND INSTALL LOG STRUCTURES	27	EA		
17	323126	LIVESTOCK FENCE	7,687	LF		
18	329000	SEEDING	19.0	AC		
19	329300	LIVE STAKE PLANTING	5,000	EA		
					TOTAL	

NORTH BANK LANE TIDAL FLOODPLAIN RESTORATION PROJECT EROSION AND SEDIMENT CONTROL PLAN (ESCP)



BANDON

REGIONAL MAP



VICINITY MAP

SHEET INDEX

EC1 ESCP COVER SHEET EC2 ESCP EXISTING CONDITIONS EC3 ESCP DEMO, CLEARING AND EXCAVATION PLAN EC4 ESCP PHASE 1 - INTERIOR CONSTRUCTION EC5 ESCP PHASE 2 - BERM CONSTRUCTION

PERMITTEE'S SITE INSPECTOR:

INSPECTOR: DEANNA HUTCHINSON, P.E., CESCL COMPANY/AGENCY: WATERWAYS CONSULTING, INC PHONE: 503-227-5979 FAX: 888-819-6847 F-MAIL: DEANNA@WATWAYS.COM DESCRIPTION OF EXPERIENCE: CESCL CERTIFIED WITH CONSTRUCTION AND EROSION CONTROL MEASURE INSPECTION FOR SEVERAL RESTORATION PROJECTS WITHIN OREGON.

SECTION AND DETAIL CONVENTION



(NUMBER OR LETTER) C3

DEVELOPER

COMPANY: COOS SOIL AND WATER CONSERVATION DISTRICT CONTACT: CALEY SOWERS 379 N ADAMS STE COOLULIE OR 97423 PHONE: 541-824-0356

ENGINEERING FIRM

WATERWAYS CONSULTING, INC. CONTACT: JAKE D. HOFELD, P.E 1020 SW TAYLOR ST, SUITE 380 PORTLAND, OR 97205 PHONE: 503–227–5979 EMAIL · JAKEH@WATWAYS COM

PROJECT LOCATION:

85411 N BANK LN COQUILLE, OR 97423 LATITUDE = 43.153471 LONGITUDE = -124.337886

PROPERTY DESCRIPTION:

TAX LOTS: LOCATED IN THE NE QUARTER AND NE QUARTER OF SECTION 15, TOWNSHIP 28 S, RANGE 14 W, COOS COUNTY COUNTY OREGON (43.43 ACRES) TAX LOT 95000 100 = 14.76 ACRES TAX LOT 95001 104 = 13.78 ACRES TAX LOT 95002 105 = 14.89 ACRES

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

THE THREE LOTS ARE PASTURE LAND SEPARATED FROM THE COQUILLE RIVER WITH A BERM AND A CULVERT WITH A FAILING TIDE GATE.

DEVELOPED CONDITIONS

LARGER HDPE CULVERT WITH A SIDE MOUNTED TIDE GATE AND MUTED TIDAL REGULATOR TO REPLACE EXISTING CULVERT AND TIDE GATE, NEW TIDAL CHANNELS, STABILIZATION AND REINFORCEMENT OF EXISTING BERMS, INSTALLATION OF HABITAT LOG STRUCTURES LIVESTOCK EXCLUSION FENCING CULVERT CROSSINGS OVER THE NEW TIDAL CHANNELS, AND A LOW-ELEVATION ENHANCEMENT AREA.

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

CLEARING AND GRUBBING: JULY 1, 2022 MASS GRADING: JULY 1-SEPTEMBER 15, 2022 CULVERT INSTALLATION: AUGUST 1-SEPTEMBER 15, 2022 FINAL STABILIZATION: SEPTEMBER 1-OCTOBER 1, 2022 DEMOBILIZATION: OCTOBER 15, 2022

TOTAL DISTURBED AREA 869,891 SF (19.97 ACRES)

SITE SOIL CLASSIFICATION: 34 - LANGLOIS SILTY CLAY LOAM (92%) 63 – ETELKA SILT LOAM (8%)

RECEIVING WATER BODIES: NEAREST WATER BODY COQUILLE RIVER (RM 7.5) 303(d) IMPAIRMENT LISTED FOR CHLOROPHYLL A (CAT 5), E. COLI (CAT 5), AND FECAL COLIFORM (CAT 5)

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR SET FORTH IN OAR 932-001-0010 THROUGH OAR 952-001-0090, YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAV ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN, SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS. ACCESSIBILITY TO THE STIE, AND OTHER RELATED CONDITIONS, ASCESSIBILITY TO THE PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

- ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I). IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELLAS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II) 2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT
- REQUIREMENTS. (SECTION 6.5)
- INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEO'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q) RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7) THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES

- THE PERMIT REDISTRATI MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
 THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
 SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR ACENT WITHIN 10 DAYS. (SECTION 4.9)
 SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
 CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMATER FROM RYASSING CONTROLS AND DANDING. (SECTION 2.2.3)
- STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
 IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND YEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION REAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS),
- AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1) PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
- 12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE.
- (SECTION 2.2.4) 13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT
- INSTALL PERMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
 CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SECTIONS 2.1.1. AND 2.2.16)
 CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6) AND 2213) ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE 16
- (SECTION 2.2.14) WORK. 17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS
- AFFET TEMPORART AND/OF PERMANENT SOLE STABILIZATION MEASURES IMMEDIATELT ON ALL DISTORDED ARCAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT TABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS.(SECTIONS 2.2.20 AND 2.2.21) ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- ESTABLISH WATCHING AND WASTE STORAGE AREA, AND OTHER NORMASTOWNIA THE END OF THE BUSINESS DAY KEEP WASTE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE
- EXISTATE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTON 2.3.7) PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES. (SECTION
- 21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F) 22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT,
- WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9) 23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED.

BMP MATRIX FOR CONSTRUCTION PHASE

YEAR 2022					SITE CONDITION		
PHASE/BMP	CLEARING	INTERIOR GRADING	BERM GRADING	CULVERT AND TIDE GATE INSTALLATION	FINAL STABILIZATION	1. ACTIVE PERIOD.	
	Ef	ROSION PR	EVENTION				
GROUND COVER	X	Х	Х				
PLASTIC SHEETING	Х	Х	Х				
DUST CONTROL	X	X	Х				
TEMPORARY STABILIZATION (STRAW MULCH/HYDROSEED)		x	x	x		2. INACTIVE PERIODS GRE THAN FOURTEEN (14) CONSE	
PERMANENT STABILIZATION					Х	CALENDAR DAYS.	
BUFFER ZONE (FROM OHW)							
	<u>ا</u>	SEDIMENT (CONTROL	1		3. PERIODS DURING WHIC	
STRAW WATTLES	X	Х	Х	X		SITE IS INACCESSIBLE DUE	
DEWATERING		Х	Х	X		INCLEMENT WEATHER.	
TURBIDITY CURTAIN	X	Х	Х	X		4. PERIODS DURING WHICH CONSTRUCTION ACTIVI	
		RUNOFF C	ONTROL			SUSPENDED AND RUN	
CONSTRUCTION ENTRANCE	X	X	Х	Х		UNLIKELY DUE TO FR CONDITIONS.	
DECOMISSION AND PLUG EXISTING CULVERT	x					5. PERIODS DURING WHICH CONSTRUCTION ACTIVI	
ISOLATE PROPOSED CULVERT AND TIDE GATE AREA				x		CONDUCTED AND RUN IS UNLIKELY DURING F CONDITIONS.	
	PO	LLUTION PI	REVENTION				
HAZARD WASTE MANAGEMENT	x	x	x	x		 HOLD A PRE-CONSTRUCTI INSPECTOR TO DISCUSS E (Schedule A.8.c.i.(3)) 	
SPILL KIT ONSIDE	X	Х	Х	Х		 ALL INSPECTIONS MUST E INSPECTION LOGS MUST E 	

- 25.
- 26.
- - (SECTION 2.2.9)

 - 37. CATC

INSPECTION FREQUENCY

1.	ACTIVE PERIOD.
	INACTIVE PERIODS GREATER IAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.
3. Sl	PERIODS DURING WHICH THE TE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.
4.	PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.
5.	PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS.
* * *	HOLD A PRE-CONSTRUCTION MEETING INSPECTOR TO DISCUSS EROSION AND (Schedule A.B.c.i.(3)) ALL INSPECTIONS MUST BE MADE IN INSPECTIONS JOGS MUST BE KEPT IN

ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS.
 RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ. AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION. (Schedule B.2.g)

(SECTION 2.2.10) 24. PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED.

. PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILIRATION FACILITIES ARE TO BE INSTALLE (SECTION 2.2.12) . USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITES; AND WASTE HANDLING ACTIVITES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING

COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3) PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A) 27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE

In Contracting Social So

PROVIDE A DEWATERING PLAN FOR ACCOMPLATED WATER FROM FREUETIATION AND DIROTATION CONTINUMATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
 IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
 USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL.

(JECTION 2.2.9) THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)

 IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE USPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. TREATMENT

(SECTION 1.2.9) 33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED.

TEMPORARILY STABILIZE SOLES AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOLES ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
 AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOLE STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
 SEDIMENT FENCE: REMOVE TRANPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
 OTHER SEDIMENT BEFORE FENCE REMOVAL.

36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH

ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C) CATCH BASINS: CLEAN BEFORE BMP REMOVAL. (SECTION 2.1.5.C) CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY

AND SELMENT INAPS. REMOVE INAPPED SELMENTS BEFORE DESIGN CHARGET HAS BEEN REDUCED BT FIFT PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D) 38. WITHIN 24 HOURS, SIGNIFICANT SEDMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A) 39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING

 THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
 DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
 PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
 DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPROSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE. (SECTION 2.2.20)
 EMPORARY EROSION CONTROLS AND RETAINED SOLS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS HEMPORADY EROSION CONTROLS AND RETAINED OF DEDUCTION IS COMPLETE AND THE SITE IS STABLIZED. NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)

MINIMUM FREQUENCY

ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE

WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE

AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.

THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.

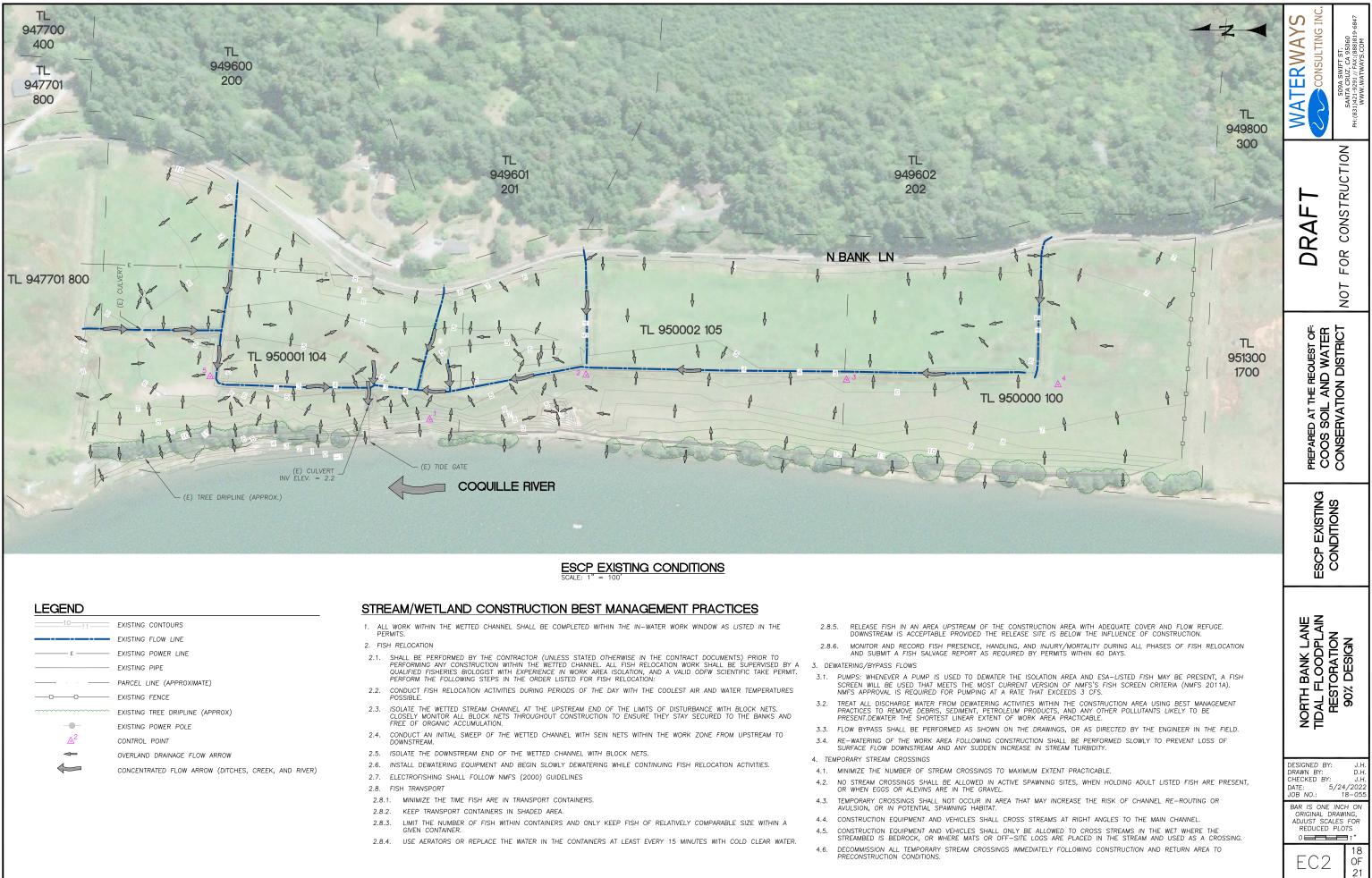
IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY

VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

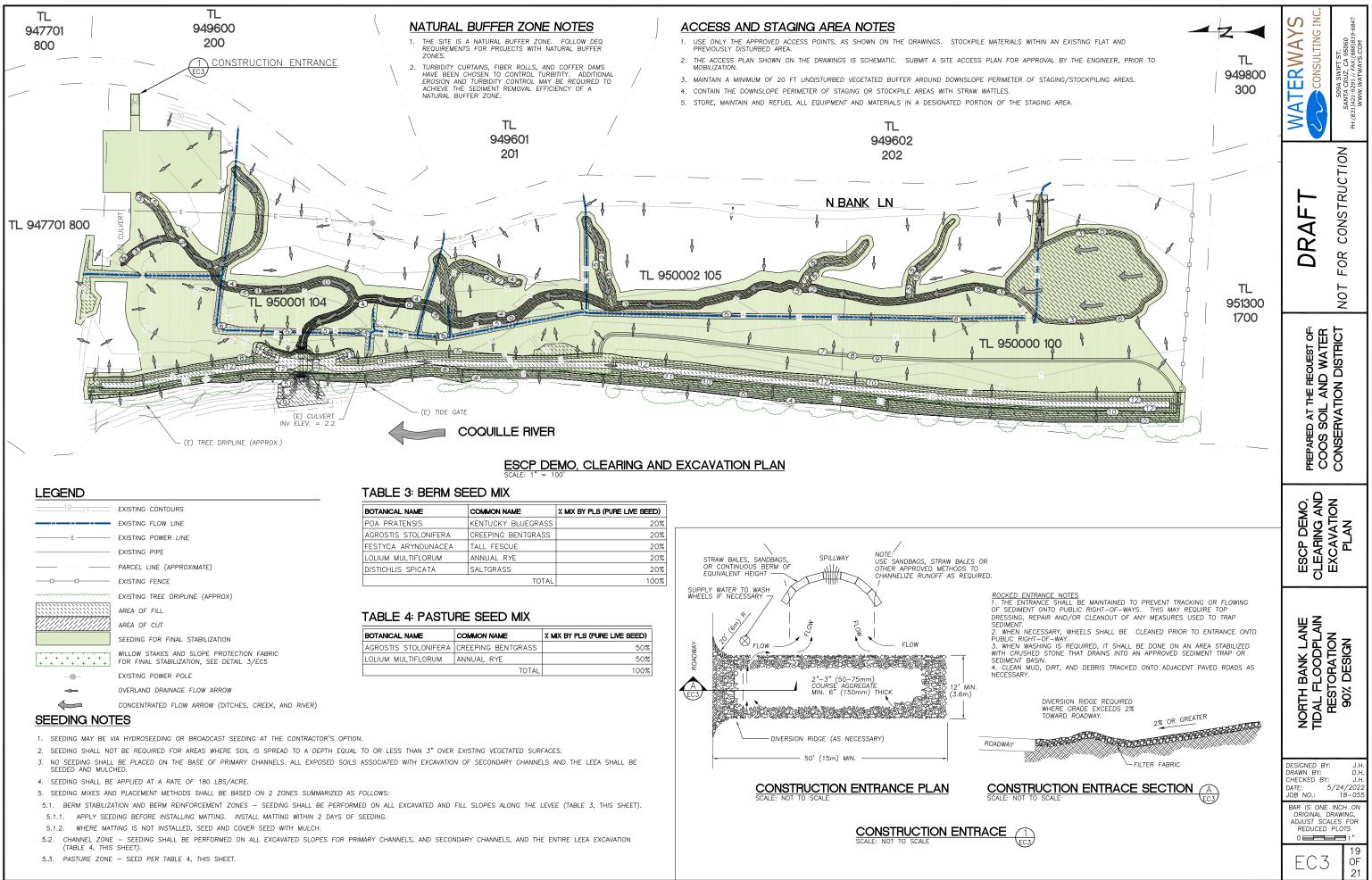
VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE ID SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS

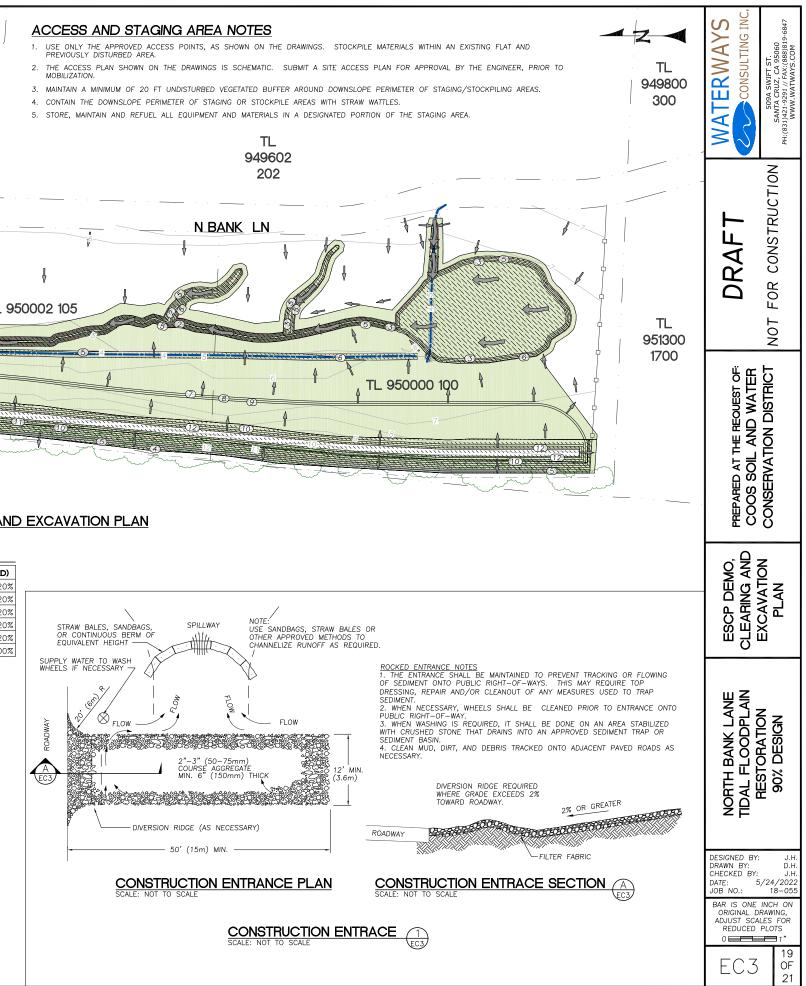
WATERWAYS CONSULTING INC.	509A SWIFT ST. SANTA CRUZ, CA 95060 PH:(831)421-9291 // FAX:(888)819-6847 WWW.WATWAYS.COM			
DRAFT	CONSERVATION DISTRICT NOT FOR CONSTRUCTION			
PREPARED AT THE REQUEST OF: COOS SOIL AND WATER	CONSERVATION DISTRICT			
ESCP COVER SHEET				
NORTH BANK LANE TIDAL FLOODPLAIN RESTORATION 90% DESIGN				
DESIGNED BY DRAWN BY: CHECKED BY DATE: JOB NO.: BAR IS ONE ORIGINAL I ADJUST SC, REDUCED	D.H. : J.H. 5/24/2022 18-055			

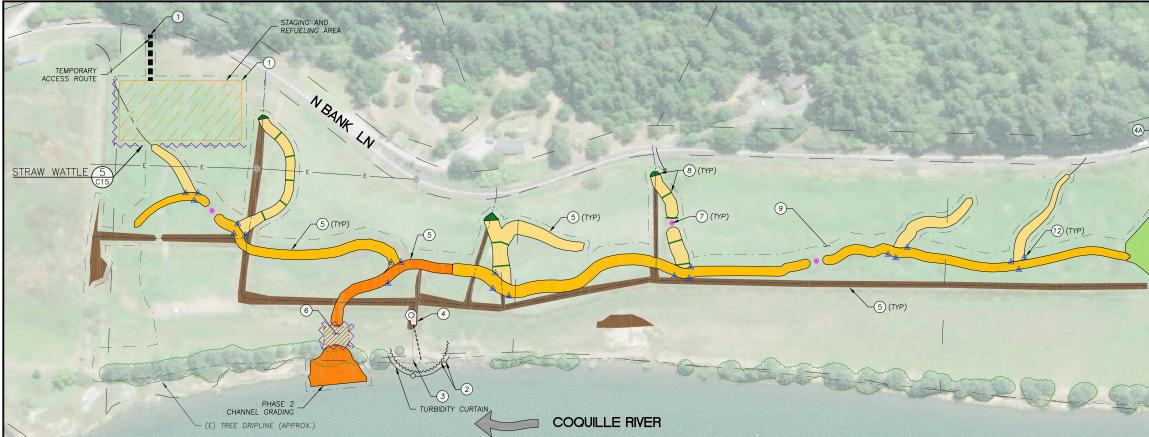


1011	EXISTING CONTOURS
	EXISTING FLOW LINE
———— E ————	EXISTING POWER LINE
	EXISTING PIPE
· · ·	PARCEL LINE (APPROXIMATE)
	EXISTING FENCE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING TREE DRIPLINE (APPROX)
-0-	EXISTING POWER POLE
$\triangle^2$	CONTROL POINT
\$	OVERLAND DRAINAGE FLOW ARROW
	CONCENTRATED FLOW ARROW (DITCHES, CRE



1011	EXISTING CONTOURS
	EXISTING FLOW LINE
E	EXISTING POWER LINE
	EXISTING PIPE
· ·	PARCEL LINE (APPROXIMATE)
	EXISTING FENCE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EXISTING TREE DRIPLINE (APPR
	AREA OF FILL
	AREA OF CUT
	SEEDING FOR FINAL STABILIZAT





LEGEND

----- EXISTING FLOW LINE E ----- EXISTING POWER LINE EXISTING PIPE TO REMAIN ------ PARCEL LINE (APPROXIMATE) ____ -0---LIMITS OF DISTURBANCE ----- NEW EDGE OF GRAVEL ROAD - TEMPORARY TURBIDITY CURTAIN ---0 TEMPORARY DIVERSION/DEWATERING HOSE ***** TEMPORARY COFFERDAM TEMPORARY FISH BLOCK NET FILL EXISTING DITCH/DEPRESSION NEW ESM NEW PRIMARY CHANNEL EXCAVATION NEW PRIMARY CHANNEL EXCAVATION NEW SECONDARY CHANNEL EXCAVATION NEW LOW ELEVATION ENHANCEMENT AREA TEMPORARY STAGING AND REFUELING AREA TEMPORARY STOCKPILE AREA EXISTING POWER POLE NEW CULVERT AND LIVESTOCK CROSSING NEW LOG STRUCTURE ----NEW ESM SILL NEW CULVERT AND TIDE GATE T TEMPORARY STAGING/STOCKPILING AREA -123 KEYNOTE CALLOUT

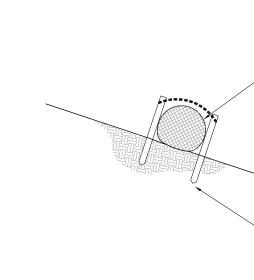
ESCP PHASE 1 - INTERIOR CONSTRUCTION

CONSTRUCTION PHASING PLAN KEY NOTES

THE FOLLOWING NOTES DETAIL THE RECOMMENDED SEQUENCE OF CONSTRUCTION TO CONTROL EROSION AND SEDIMENT FROM LEAVING THE PROJECT AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE ANTICIPATED CONSTRUCTION SEQUENCING STRATEGY WITH THE CONSTRUCTION SCHEDULE FOR REVIEW BY THE ENGINEER.

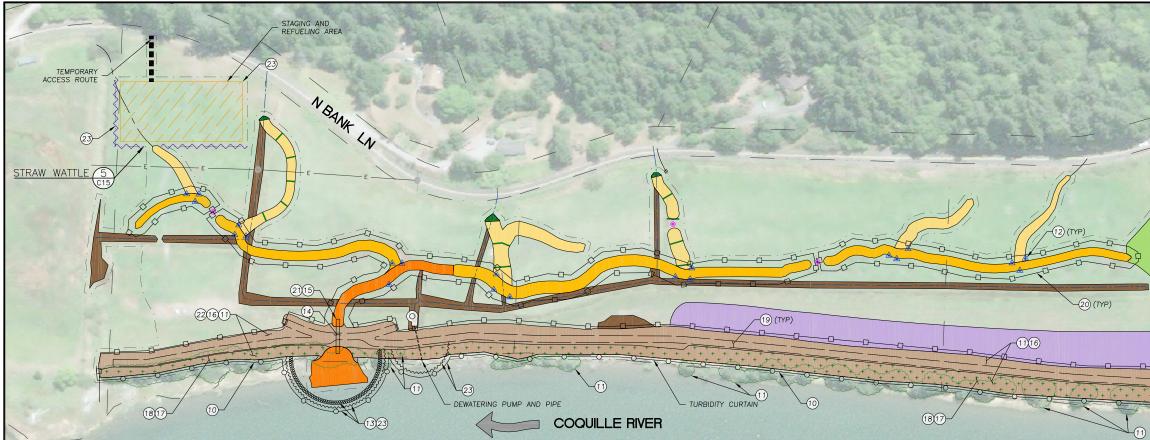
- ESTABLISH TRAFFIC CONTROL SIGNS, AND FLAG EXTENTS OF ALL CONSTRUCTION ACCESS ROADS, AND STAGING AND STORAGE AREAS.
- 2. INSTALL A BLOCK NET AND TURBIDITY CURTAIN AT THE EXISTING TIDE GATE/COQUILLE RIVER CONFLUENCE AND PERFORM FISH SALVAGE OPERATIONS WITHIN THE DRAINAGE AREA AS NECESSARY.
- 3. DURING LOW TIDE, ALLOW THE DITCH NETWORK TO DRAIN, THEN DEMOLISH AND PLUG EXISTING TIDE GATE.
- 4A. DIVERT CREEK FLOW TO THE RIVER VIA PUMP.
- 4. PUMP WATER OUT OF SITE. INSTALL ADDITIONAL BMPS AS NECESSARY TO REDUCE TURBIDITY TO PERMITTED LEVELS.

- CONSTRUCT INTERIOR WORK FIRST: CUT CHANNELS, CUT LEEA, AND FILL DITCHES.
- 6. STOCKPILE EXCESS MATERIALS AT NEW TIDE GATE LOCATION TO PRELOAD SOIL.
- 7. INSTALL LIVESTOCK CULVERTS AND RIPRAP.
- 8. INSTALL ESM AND ESM SILLS.
- 9. SEED WETLAND.



STRAW WATTLE

		WWW.WATWAYS.COM
	DRAFT NOT FOR CONSTRUCTION	
NOTES 1. SEE SEEDING NOTES AND TABLES ON SHEET EC3. 2. SEED AND MULCH ALL EXPOSED SURFACES EXCEPT:	PREPARED AT THE REQUEST OF COOS SOIL AND WATER CONSERVATION DISTRICT	
2.1. BEDS OF PRIMARY CHANNELS 2.2. RIPRAP 2.3. ROAD 2.4. BELOW ELEVATION 4.0	ESCP PHASE 1 - INTERIOR CONSTRUCTION	
FIBER ROLL SHALL BE A COIR ROLL OR STRAW ROLL WITH A MINIMUM DIAMETER OF 9 INCHES.	NORTH BANK LANE TIDAL FLOODPLAIN RESTORATION 90% DESIGN	
RESTRAIN FIBER ROLLS WITH NOTCHED 1-IN.X2-IN.X24-IN. WOOD STAKES. TIE 1/4 IN. DIA. BIODEGRADABLE ROPE TO STAKES, AT NOTCH, AND DRIVE STAKES INTO SOIL SUCH THAT ROPE TIGHTLY HOLDS THE FIBER ROLL. PLACE FIBER ROLL RESTRAINTS 5-FT ON CENTER EDETAIL	DRAWN BY: C CHECKED BY: JOAN DATE: 5/24/20 JOB NO.: 18-0 BAR IS ONE INCH O ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS 0 1 2 2 0	055 N R



LEGEND

 EXISTING FLOW LINE EXISTING POWER LINE EXISTING PIPE TO REMAIN PARCEL LINE (APPROXIMATE) _____ EXISTING FENCE EXISTING TREE DRIPLINE (APPROX.) LIMITS OF DISTURBANCE NEW EDGE OF GRAVEL ROAD TEMPORARY TURBIDITY CURTAIN ---0 TEMPORARY DIVERSION/DEWATERING HOSE TEMPORARY COFFERDAM TEMPORARY FISH BLOCK NET FILL EXISTING DITCH/DEPRESSION NEW BERM STABILIZATION AREA NEW BERM REINFORCEMENT AREA NEW ESM NEW PRIMARY CHANNEL EXCAVATION NEW PRIMARY CHANNEL EXCAVATION NEW SECONDARY CHANNEL EXCAVATION NEW LOW ELEVATION ENHANCEMENT AREA SLOPE PROTECTION FABRIC AND LIVE WILLOW STAKE ZONE, + + + + + + + + +SEE DETAIL 3/EC5 (1.6 ACRES) EXISTING POWER POLE NEW CULVERT AND LIVESTOCK CROSSING NEW LOG STRUCTURE _ _ _ . NEW ESM SILL NEW CULVERT AND TIDE GATE P TEMPORARY STAGING/STOCKPILING AREA ~123 KEYNOTE CALLOUT

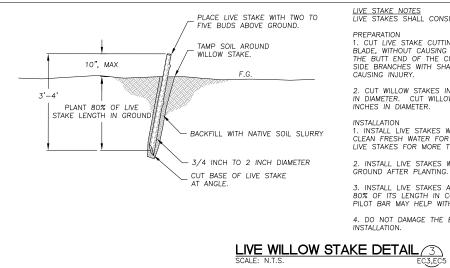
ESCP PHASE 2 - BERM CONSTRUCTION

CONSTRUCTION PHASING PLAN KEY NOTES

THE FOLLOWING NOTES DETAIL THE RECOMMENDED SEQUENCE OF CONSTRUCTION TO CONTROL EROSION AND SEDIMENT FROM LEAVING THE PROJECT AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE ANTICIPATED CONSTRUCTION SEQUENCING STRATEGY WITH THE CONSTRUCTION SCHEDULE FOR REVIEW BY THE ENGINEER.

- 10. INSTALL ISOLATION MEASURES ALONG COQUILLE RIVER.
- 11. START BERM GRADING OUTSIDE OF PROPOSED TIDE GATE LOCATION AND SALVAGE TREES DURING OPERATIONS.
- 12. INSTALL LARGE WOOD STRUCTURES.
- 13. INSTALL 9.5-FT TOP ELEVATION COFFERDAM TO ISOLATE THE TIDE GATE CULVERT WORK AREA FROM COQUILLE RIVER.
- 14. INSTALL CULVERT, BACKFILL CULVERT, AND INSTALL BALLAST AND RIPRAP PROTECTION.
- 15. INSTALL TIDE GATE AND MUTED TIDAL REGULATOR.

- 16. SEED BANKS. 17. INSTALL SLOPE PROTECTION FABRIC. 18. STAKE WILLOWS OVER SLOPE PROTECTION FABRIC. 19. INSTALL ROAD. 20. INSTALL LIVESTOCK FENCE.
- 21. CONNECT TIDE GATE TO MUTED TIDAL REGULATOR.
- 22. SEED AND MULCH BARE SOILS CREATED BY CONSTRUCTION ACTIVITIES.
- 23. REMOVE ALL REMAINING FISH BLOCK NETS, TURBIDITY CURTAINS, PUMPS, AND OTHER DEWATERING/DIVERSION EQUIPMENT FROM DRAINAGE AREA.



CAUSING INJURY.

INSTALLATION.

