

REQUEST FOR SEALED BID

Culvert Material Purchase – Centralia Alpha MP 15.79 Culvert Replacement CMP 15-1810

1. SCOPE

The purpose of this request for sealed bid is to purchase a 22-ft wide by 9-ft high by 50-ft long precast reinforced concrete split-box culvert with four wing walls. The box culvert structure shall support two-lane, two-way AASHTO HL-93 traffic loading aligned per Sheet C-201 (page 5 of 7).

Two sets of plans for the culvert structure with wing walls shall be stamped and certified by a Civil Engineer licensed in the State of Washington. Stamped plans shall be provided to Lewis County within twenty-one working days of contract award. Plans shall include connection details, lifting details, assembly, and installation details. Lewis County anticipates placing the structure during the first week of August 2022. If this project is postponed by Lewis County, the successful bidder shall provide storage of all bid items for a period of up to sixteen months (if needed) and delivery to the project site in the summer of 2023. Project postponement will be determined by June 30, 2022, when construction easements for the project are expected to be received. The manufacturer shall coordinate with Lewis County for delivery and material offload (by Lewis County's Contractor) at the project site.

2. NOTES

- For engineering questions, contact Geoff Soderquist via email (Geoff.Soderquist@lewiscountywa.gov).
- Lewis County (Agency) reserves the right to ask for descriptive literature and technical specifications at the bidders' expense.
- The bid shall include cost of material as specified and **ALL** shipping to the project site (Centralia Alpha Rd MP 15.79, closest address 3234 Centralia Alpha Rd, Onalaska, WA 98570), see Vicinity Map on page 7 of 7.
- No fuel surcharges shall be added.
- Federal Tax Identification Number from IRS form W-9 is required on all invoices.
- Bidders are to submit a copy of any and all warranties for the proposed product(s) with their response. A copy of the warranties shall also accompany products delivered.
- Manufacturer shall determine split-box culvert concrete wall/top/bottom thickness design to achieve the 22-ft Span by 9-ft High interior dimensions and wing wall dimensions as specified.
- The proposed concrete split-box culvert base units shall incorporate a minimum 5.5-ft interior side height from flow line to allow for placement of streambed material (by others) prior to placing top units.

3. SPECIFICATIONS

This Contract shall be in accordance with the Washington State Department of Transportation 2022 Standard Specification for Road, Bridge, and Municipal Construction (2022 Standard Specifications). All supplied material, components and related Contractor supplied plans/shop drawings shall meet all requirements listed in the 2022 Standard Specifications **Section 6-20 Buried Structures** (including all applicable reference sections) or as supplemented below:

6-20 BURIED STRUCTURES

6-20.1 Description

Section 6-20.1 is replaced with the following:

This work consists of providing engineered plans and shop drawings to produce and deliver a precast reinforced concrete split box culvert units to the project site at MP 15.79 on Centralia Alpha Road in Lewis County, WA. This water crossing structure shall be design to support HL-93 vehicle loading and shall be constructed to the width, length and height as described within this Contract and the applicable culvert material portions of construction Plan Sheet C-201 and C-202 (pages 5 and 6 of this Contract, respectively).

6-20.3 Construction Requirements

6-20.3(1) Design

Section 6-20.3(1) is supplemented with the following:

This structure shall be considered a Contractor Supplied Design.

6-20.3(1)D Geotechnical Considerations

Section 6-20.3(1)D is replaced with the following:

The Geotechnical Report for this project (PBS, dated 14-Mar-19) is available on Lewis County's website (<https://cfb.lewiscountywa.gov/projects/>), no additional geotechnical information will be required by the culvert manufacturer for this Contract.

6-20.3(1)E Hydraulic Considerations shall be deleted from this Contract.

6-20.3(1)G Traffic Barrier

Section 6-20.3(1)G is supplemented with the following:

Guardrail shall be attached to the supplied structure per WSDOT Standard Plan C-20.41 (by others after delivery). Connection to the structure shall require a minimum Test Level Three (TL-3) design for guardrail anchor points drilled and epoxied into the top of the culvert (by others after delivery).

6-20.3(2) Submittals

6-20.3(2)B Load Rating Report shall be deleted from this Contract.

6-20.3(2)D Dewatering System shall be deleted from this Contract.

6-20.3(5) Excavation shall be deleted from this Contract.

6-20.3(6) Bedding and Foundations shall be deleted from this Contract.

6-20.3(8) Placement and Assembly shall be deleted from this Contract.

6-20.3(9) Backfilling shall be deleted from this Contract.

6-20.5 Payment

Section 6-20.5 is supplemented with the following:

The Lump Sum Contract price for “Culvert Material Purchase—Centralia Alpha Rd. MP 15.79” shall be full payment to perform the work as specified in this Contract including all costs for supplying all materials, manufacturing, and delivering a precast reinforced concrete split box culvert (22-ft Span by 9-ft High by 50-ft long with four wing walls and two headwalls, as specified) to Centralia Alpha Rd. MP 15.79, in Lewis County, WA.

4. PUBLIC OPENING OF PROPOSAL

Date and Time of Bid Opening

The Board of County Commissioners of Lewis County or designee, will open sealed proposals and publicly read them aloud on or after 12:15 p.m. on March 31, 2022, at the Lewis County Courthouse, Chehalis, Washington, for the Culvert Material Purchase—Centralia Rd. MP 15.79 Culvert Project, CMP 15-1810.

**SEALED BIDS MUST BE DELIVERED BY OR BEFORE
12:15 P.M. on Thursday, March 31, 2022**

(Lewis County official time is displayed on Axxess Intertel phones in the office of the Board of County Commissioners. **Bids submitted after 12:15 PM will not be considered for this project.**)

Delivery and Marking of Sealed Bid Proposals

Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532) by or before **12:15 p.m.** on the date specified for opening, and in an envelope clearly marked: **“SEALED BID FOR CULVERT MATERIAL PURCHASE – CENTRALIA ROAD MP 15.79 CULVERT REPLACEMENT, CMP 15-1810 TO BE OPENED ON OR AFTER 12:15 P.M. ON THURSDAY, MARCH 31, 2022.”**

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five percent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract within the time stated in the specifications, the bid proposal deposit shall be forfeited to the Lewis County Public Works Department.

5. BID SUBMITTALS (Entries shall be typed or entered using an ink pen)

PRICE SHEET

Item	Description	Quantity	Unit	Unit Price	Total Price
1	Culvert Material Purchase Centralia Alpha Rd. MP 0.17 29-ft Span by 9-ft High by 50-ft long Precast Rieforced Concrete Split Box Culvert (with Four Wingwalls and Two Headwalls) Material and Delivery to Centralia Alpha Rd. MP 15.79, Near Onalaka, WA (Lewis County, WA).	1	Lump Sum	_____	_____
				SUBTOTAL	_____
				Washington State Sales Tax 7.8%	_____
				TOTAL	_____

6. CONDITIONS

By signature below, the Authorized Official(s) of the company submitting this Proposal do hereby acknowledge that in the event this Proposal is deemed to be the lowest responsive bid, this document shall be construed to be the legal contract for the purchase of the materials specified herein. The successful bidder shall be liable, and hereby agrees to reimburse Lewis County, for any and all costs incurred by Lewis County due to delays in the delivery of any materials specified herein beyond the agreed delivery date as identified in Part 1. The liability for costs due to material delivery delays shall be limited to the total cost of the bid for the materials as contained in this Proposal. Please be apprised that a bid bond shall accompany this proposal in order for this proposal to be valid as per the Call for Bid.

*Receipt is hereby acknowledged of addendum(s) Number(s) 1 ____ , 2 ____ , 3 ____.

SIGNATURE OF AUTHORIZED OFFICIAL(S)

Proposal Must be Signed

X_____

Company Name

Address

Unified Business Identifier (U.B.I.) No.

Telephone #

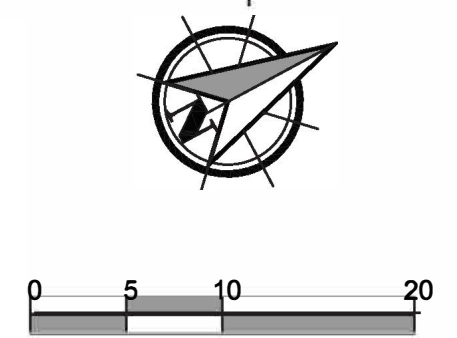
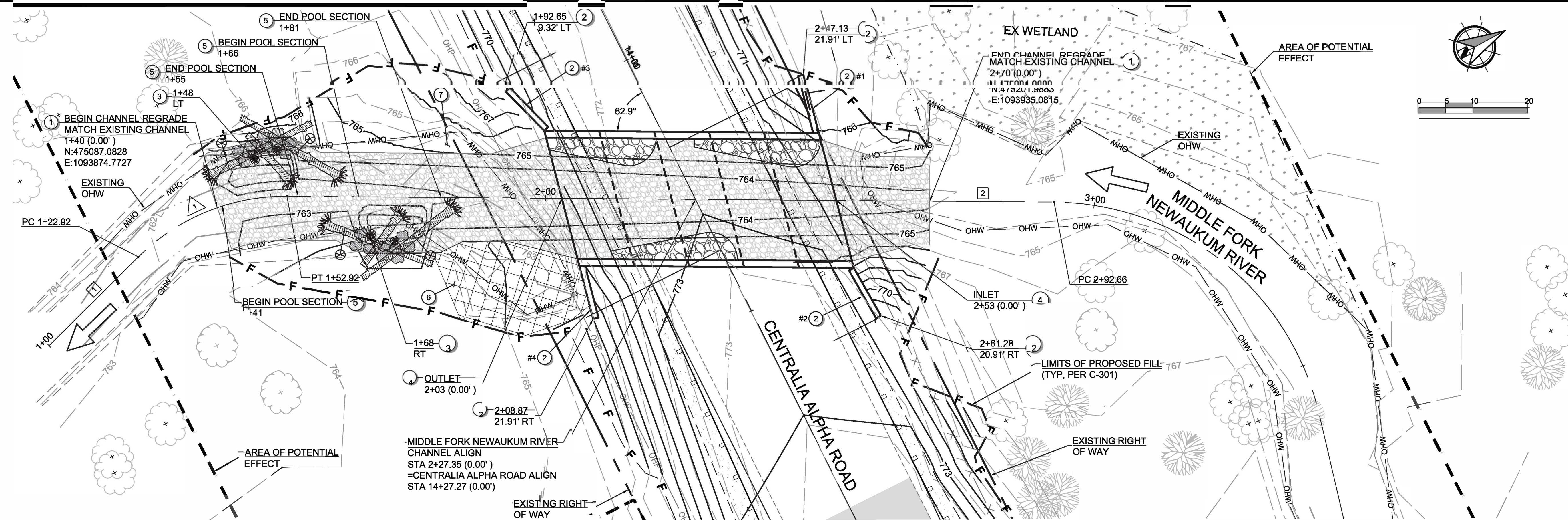
Federal ID No.

FOR LEWIS COUNTY USE ONLY

AWARD RESOLUTION NO. _____

APPROVED: _____
County Engineer Date

Filepath: L:\Projects\45000\45004\45041\45041\45041\CAD\Working\Sheets\45013.005_C201.dwg User: Paul Baskow CAD Plot Date/Time: 2/23/2022 11:50:29 AM



LEGEND

	CHANNEL STREAMBED MIX
	FILL EXISTING CHANNEL

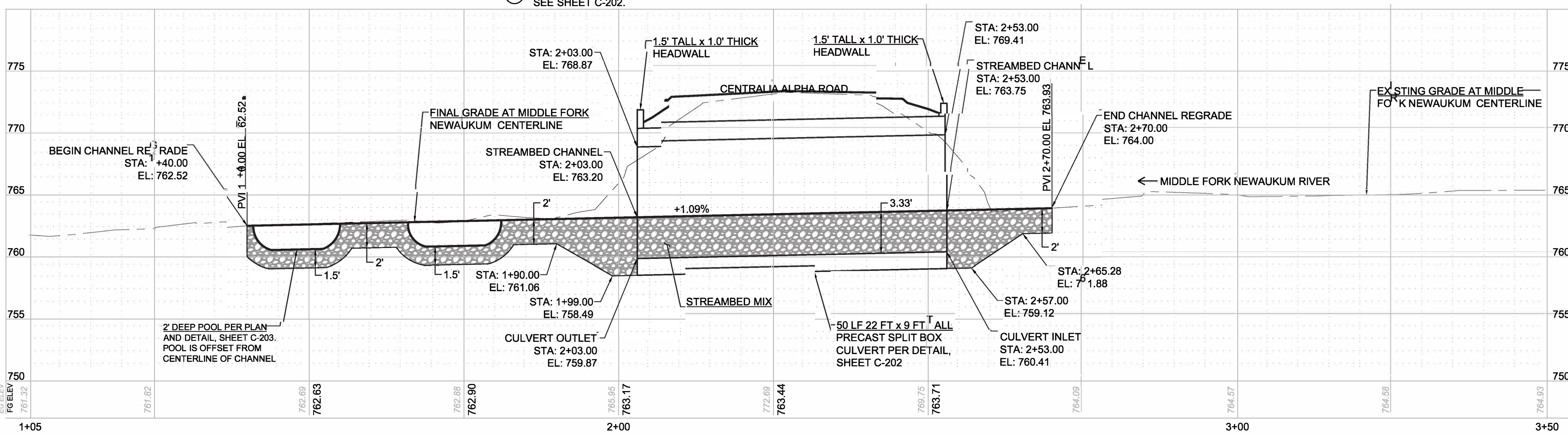
- CONSTRUCTION PLAN NOTES:**
- RECONSTRUCT STREAM CHANNEL PER DETAIL, SEE SHEET C-203.
 - INSTALL CONTRACTOR-DESIGNED BURIED STRUCTURE WINGWALL, PER DETAIL, SEE SHEET C-202
 - INSTALL LARGE WOODY MATERIAL FEATURE, SEE SPECIAL PROVISION SECTION 8-30 AND PER DETAIL, SEE SHEET C-203
 - INSTALL CONTRACTOR-DESIGNED BURIED STRUCTURE PRECAST SPLIT BOX CULVERT, 22-FT x 9-FT, PER SECTION, SEE SHEET C-202
 - FILL TYP. CHANNEL WITH COMMON BORROW, INCL. HAUL
 - FILL EXISTING CHANNEL WITH COMMON BORROW, INCL. HAUL
 - MEANDER BAR #3 (RT) AT 42' DOWNSTREAM OF START OF MEANDER BAR #2. SEE SHEET C-202.

- GENERAL NOTES:**
- LARGE WOODY MATERIAL (LWM) FEATURES, TWO-MAN BOULDERS, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE LWM FEATURES CAN BE MADE IN THE FIELD BY THE ENGINEER.
 - SEE ROADWAY PLAN ON SHEET C-301 FOR FINAL GRADING WITHIN CUT/FILL LIMITS.
 - SEE PLANTING PLANS ON SHEET C-401 THRU C-403 FOR FINAL STABILIZATION REQUIREMENTS.

MIDDLE FORK RIVER ALIGNMENT DATA

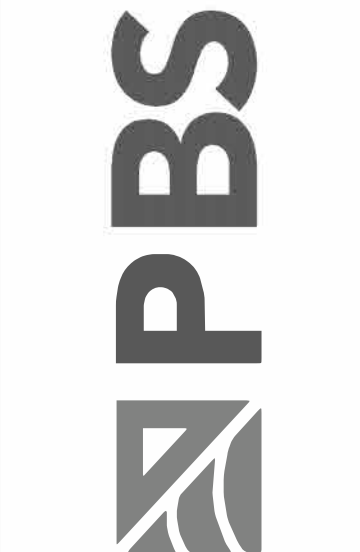
CENTERLINE LINE DATA		
#	Length	Direction
1	22.92	N16° 35' 11"W
2	139.74	N28° 39' 14"E

CENTERLINE CURVE DATA				
#	Δ	R	L	T
1	45°14'25"	38	30.00	15.83



PROFILE SCALE:
 HORIZ: 1" = 10'
 VERT: 1" = 5'

PBS Engineering and Environmental Inc. Site 160
 1180 NW Maple St. Sitka, Alaska 99807
 483.856.3175 pbs.com

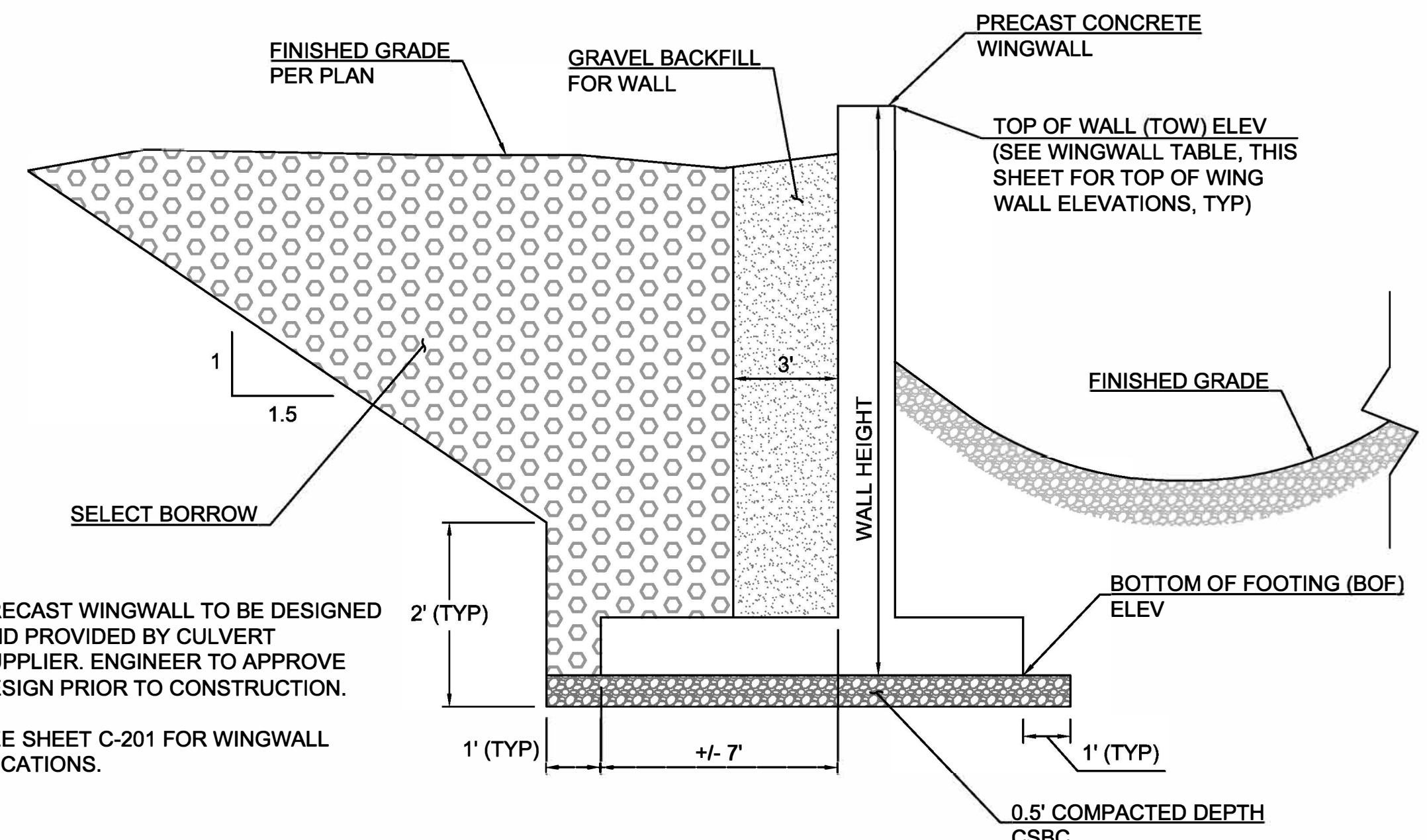
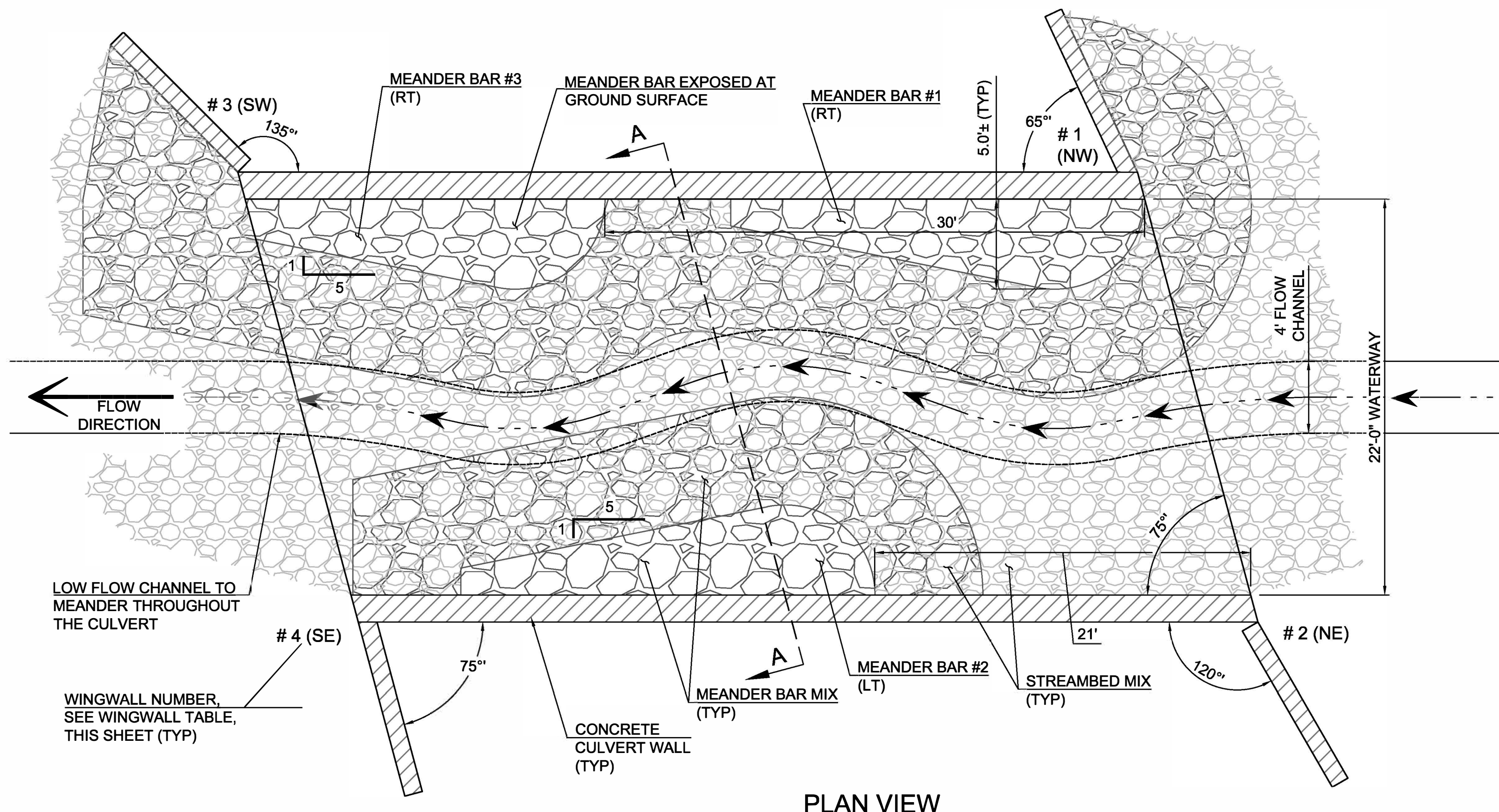


STREAM PLAN AND PROFILE FOR: BRIDGE OVER CENTRALIA ALPHA ROAD (MIDDLE FORK NEWAUKUM) CULVERT REACEMENT ONALASKA, WASHING GON



DESIGNED: RPB
CHECKED: GPB
FEB 2022 45013.005
SHEET ID C-201
SHEET 5 OF 7

File name: L:\Projects\45000\45004\45004\CAD\Working\Sheets\45013.005_C201.dwg
 User: Paul Baskow
 Layout: Tab: C-202 CULVERT DETAILS
 CAD Plot Date/Time: 2/23/2022 11:51:09 AM



- NOTE:**
1. PRECAST WINGWALL TO BE DESIGNED AND PROVIDED BY CULVERT SUPPLIER. ENGINEER TO APPROVE DESIGN PRIOR TO CONSTRUCTION.
 2. SEE SHEET C-201 FOR WINGWALL LOCATIONS.

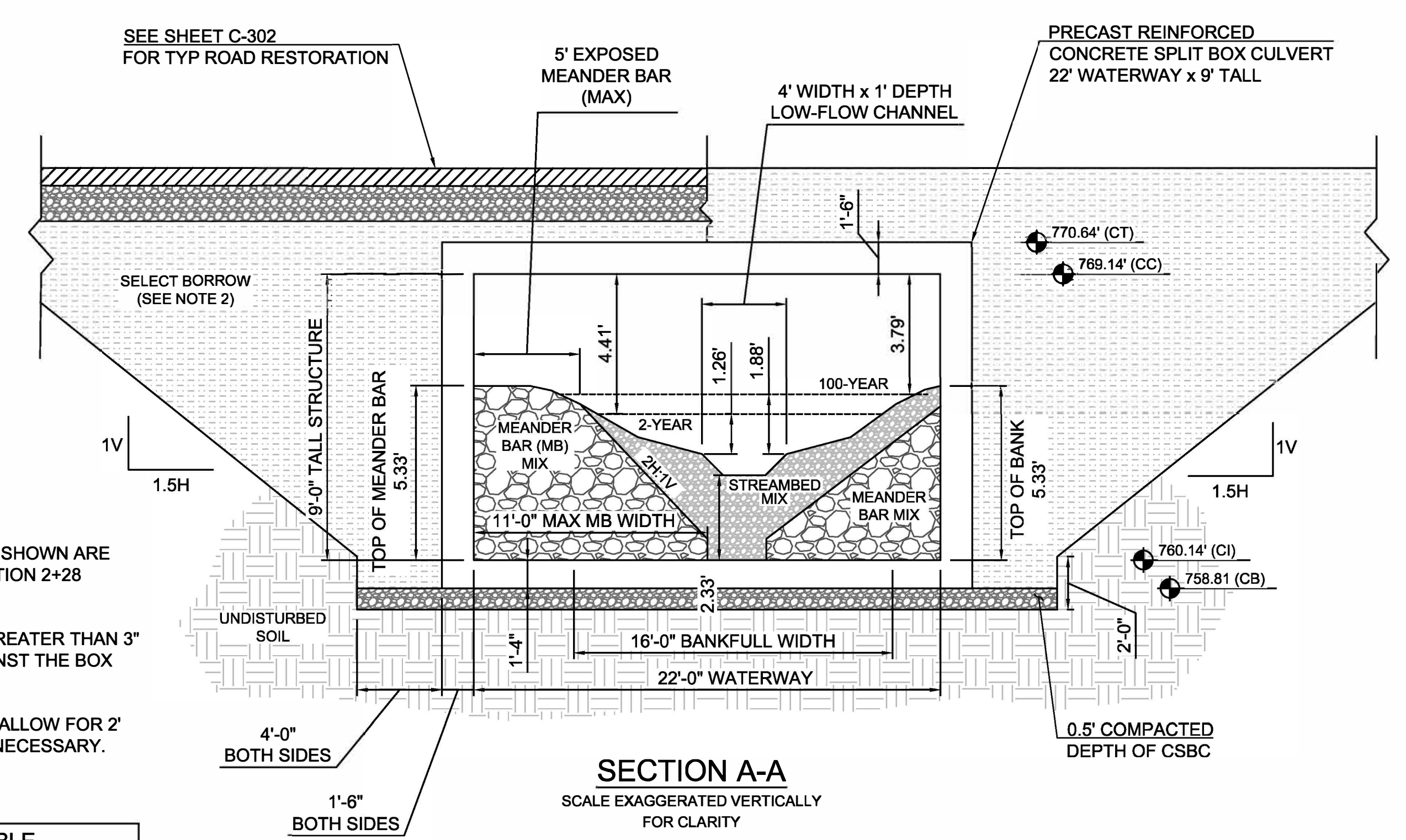
WINGWALL TABLE					
WINGWALL NO.	LENGTH (FT)	ANGLE TO CULVERT OPENING (DEGREES)	BEGIN HEIGHT (FT)	END HEIGHT (FT)	BOF ELEV
1 (NW)	10	190	13.33	10.25	759.08
2 (NE)	10	165	13.33	13.33	759.08
3 (SW)	10	150	13.33	11.50	758.54
4 (SE)	10	180	13.33	10.25	758.54

* HEIGHT OF WALL INCLUDES ASSUMED 18" THICK FOOTING. MATCH BOTTOM OF FOOTING WITH CULVERT BOTTOM.

- NOTES:**
1. ELEVATIONS AND DEPTHS SHOWN ARE REPRESENTATIVE OF STATION 2+28 (MIDPOINT OF CULVERT).
 2. NO BACKFILL MATERIAL GREATER THAN 3" DIAMETER SHALL BE AGAINST THE BOX CULVERT.
 3. 2' EXCAVATION DEPTH TO ALLOW FOR 2' OF OVER-EXCAVATION IF NECESSARY.

ELEVATION TABLE	
BOTTOM OF CULVERT (CB)	758.81
CULVERT INVERT (CI)	760.14
2-YEAR FLOW	764.73
100-YEAR FLOW	765.35
CULVERT CROWN (CC)	769.14
TOP OF CULVERT (CT)	770.64

NOTE: ASSUMED 1.5-INCH THICK CULVERT TOP SLAB



1 CONTRACTOR DESIGNED BURIED STRUCTURE PRECAST SPLIT BOX CULVERT
NOT TO SCALE

GENERAL NOTES:

1. LARGE WOODY MATERIAL FEATURES AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS. MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD BY THE ENGINEER.
2. STREAMBED MIX: ONE PART 8" STREAMBED COBBLES SHALL BE MIXED THOROUGHLY WITH ONE PART STREAMBED SEDIMENT. STREAMBED MATERIAL SHALL BE PLACED IN THE PREPARED CHANNEL EXCAVATION TO THE LINES AND GRADES SHOWN ON THE DESIGN DOCUMENTS AND IN SUCH A WAY AS TO PREVENT MATERIAL SEGREGATION. STREAMBED MATERIAL SHALL BE PLACED IN LIFTS NO THICKER THAN 12 INCHES.
3. STREAMBED SAND: APPLY WATER AND 1-INCH DEPTH OF STREAMBED SAND TO EACH STREAMBED SEDIMENT LAYER.
4. THE ENTIRE PROCESS OF PLACING ALL STREAMBED MATERIAL, ALL STREAMBED SAND, AND WATERING IN EACH LAYER SHALL BE A HOLD POINT, WITH ATTENDANCE BY QA PERSONNEL AND A REPRESENTATIVE FROM THE ENGINEER AND CITY BEING MANDATORY.
5. THE STREAM BYPASS SHALL REMAIN IN PLACE UNTIL FLOWS THAT ARE INTRODUCED TO THE NEW CHANNEL SECTION AT A RATE EQUAL TO THE EXISTING STREAM FLOWS COMPLY WITH STATE WATER QUALITY STANDARDS AT THE DOWNSTREAM END OF THE NEW CHANNEL. IF NO WATER IS FLOWING IN THE CREEK AT THE TIME OF THE BYPASS REMOVAL, THE CONTRACTOR SHALL APPLY WATER TO THE STREAM CHANNEL FOR VISUAL ACCEPTANCE BY THE ENGINEER AND CITY REPRESENTATIVES.
6. MEANDER BAR MIX: ONE PART STREAMBED SEDIMENT SHALL BE MIXED THOROUGHLY WITH FOUR (4) PARTS 10" STREAMBED COBBLES. WATER IN ADDITIONAL STREAMBED SEDIMENT OR STREAMBED SAND DURING INSTALL UNTIL THE BAR HOLDS WATER.
7. STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND MEANDER BAR MIX AND BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM, NON-POROUS BED.
8. SEE SHEET C-203 FOR ALL STREAMBED MATERIAL GRADATIONS.
9. SEE PLANTING PLANS ON SHEETS C-401 THRU C-403 FOR FINAL STABILIZATION REQUIREMENTS.

PBS Engineering and Environmental Inc.
 1180 NW Maple St.
 Issaquah, WA 98027
 425.856.8173
 pbsusa.com

PBS

CULVERT DETAILS FOR:
CENTRALIA ALPHA RD MP 15.79 (MIDDLE FORK NEWAUKUM) CULVERT REPLACEMENT
ONALASKA, WASHINGTON



DESIGNED: RFB
CHECKED: RFB
FEB 2022 45013.005
SHEET ID C-202
SHEET 6 OF 7

SEC. 15, T13N, R1E

CENTRALIA ALPHA RD MP 15.79 (MIDDLE FORK NEWAUKUM) CULVERT REPLACEMENT

LEWIS COUNTY PUBLIC WORKS

PBS Engineering and Environmental Inc.
 1180 NW Maple St.
 Issaquah, WA 98027
 425.654.8775
 pbsusa.com



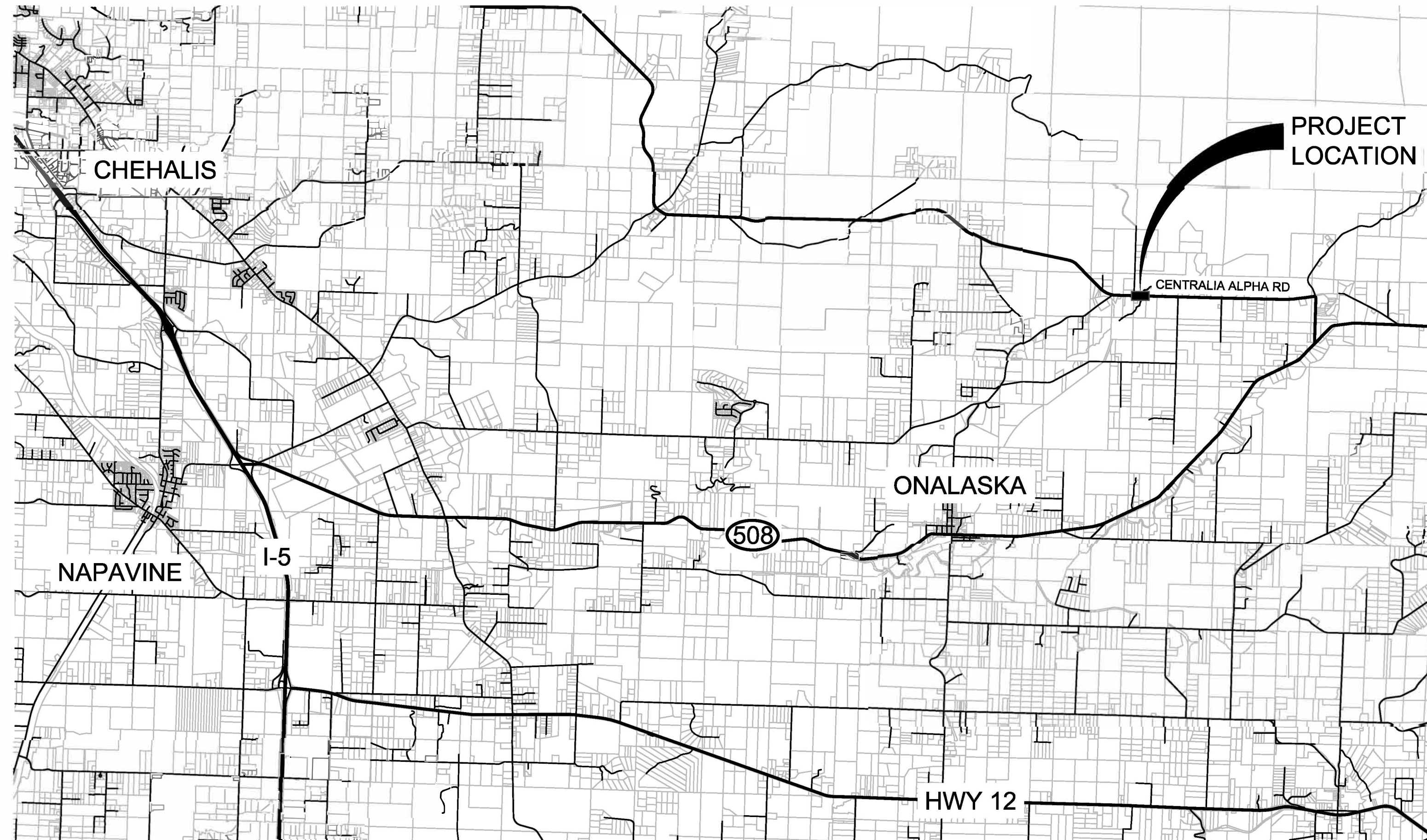
COVER SHEET FOR:
CENTRALIA ALPHA RD MP 15.79 (MIDDLE FORK NEWAUKUM) CULVERT REPLACEMENT
 ONALASKA, WASHINGTON



Know what's below.
 Call before you dig.

DESIGNED:
 PCB
 CHECKED:
 CAB
 FEB 2022
 45013.005

SHEET ID
C-001
 SHEET 7 OF 7



SITE VICINITY MAP
SCALE: 1" = 1 Mile (@ 22X34)

SHEET LIST TABLE		
SHEET #	SHEET ID	SHEET TITLE
1	C-001	COVER SHEET
2	C-002	LEGEND
3	C-101	SITE PREPARATION AND TESC PLAN
4	C-201	STREAM PLAN AND PROFILE
5	C-202	CULVERT DETAILS
6	C-203	STREAM DETAILS
7	C-301	ROADWAY PLAN AND PROFILE
8	C-302	ROADWAY SECTIONS
9	C-303	PROJECT CROSS SECTIONS
10	C-401	PLANTING PLAN
11	C-402	PLANTING NOTES AND DETAILS

CONTACT INFORMATION:

OWNER:
 LEWIS COUNTY PUBLIC WORKS
 2025 NE KRESKY AVE
 CHEHALIS, WA 98532
 PHONE: (360) 740-1123
 WWW.LEWISCOUNTYWA.GOV

CONTACT:
 ANN WECKBACK
 ENVIRONMENTAL PLANNER
 E-MAIL: ANN.WECKBACK@LEWISCOUNTYWA.GOV

CIVIL ENGINEER:
 PBS ENGINEERING AND ENVIRONMENTAL, INC.
 22833 SE BLACK NUGGET ROAD, SUITE 140
 ISSAQUAH, WA 98029
 PHONE: (425) 654-8775
 FAX: (866) 727-0140

CRAIG A. BUITRAGO, PE
 PROJECT MANAGER
 E-MAIL: CRAIG.BUITRAGO@PBSUSA.COM

PAUL C. BESKOW, PE
 PROJECT ENGINEER
 E-MAIL: PAUL.BESKOW@PBSUSA.COM

COMMISSIONERS:

SEAN D. SWOPE, DISTRICT 1
 LINDSEY R. POLLOCK, DVM, DISTRICT 2
 F. LEE GROSE, DISTRICT 3

SURVEY CONTROL:

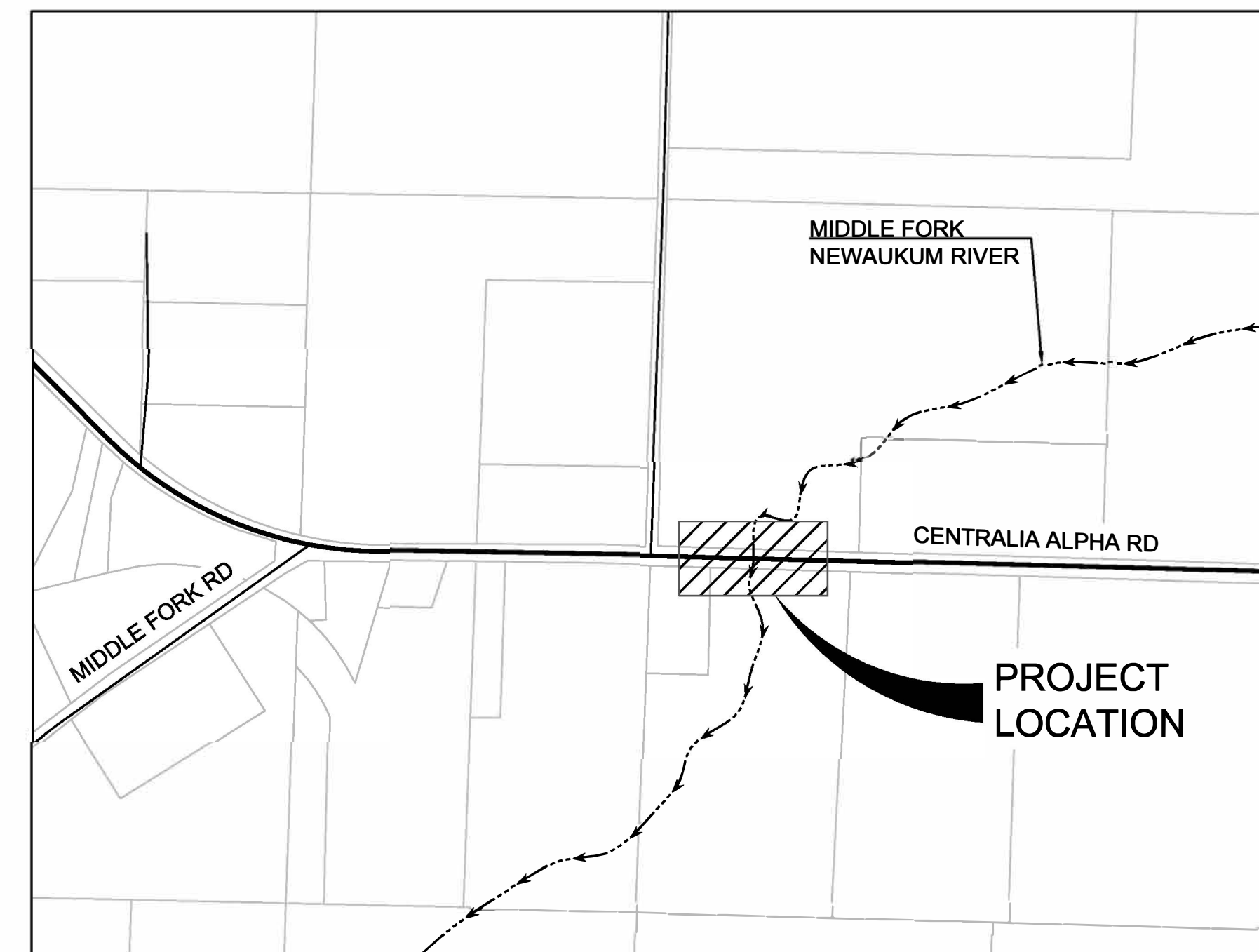
HORIZONTAL DATUM: WASHINGTON STATE PLANE
 COORDINATE SYSTEM - SOUTH ZONE, NAD 1983/91, RTK
 METHOD

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM
 OF 1988 (NAVD-88)

BASIS OF BEARING: WASHINGTON STATE PLANE
 COORDINATE SYSTEM - SOUTH ZONE, NAD 1983/91

BASIS OF COORDINATES:

POINT DESIGNATION: LC PT #1108
 NORTHING: 475108.621 (MEASURED)
 EASTING: 1093037.304 (MEASURED)



SITE LOCATION MAP
SCALE: 1" = 500' (@ 22X34)

File name: L:\Projects\45000\45013\45013_005\Civil\CAD\Working\Sheets\45013_005_C001.dwg
 Layout: Tab: C-001 COVER SHEET
 User: Paul Beskow
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