BEFORE THE BOARD OF COUNTY COMMISSIONERS LEWIS COUNTY, WASHINGTON

IN THE MATTER OF:

RESOLUTION NO. 23-090

CALL FOR BIDS FOR THE MATERIAL PURCHASE OF A PRECAST CONCRETE SPLIT BOX CULVERT FOR FUTURE INSTALLATION AT KRUGER ROAD

WHEREAS, this contract provides for the improvement of Kruger Road (MP 1.2), CMP 15-1904, in Lewis County by purchasing a culvert for future installation and other related work, all in accordance with the Contract Plans, Contract Provisions, and the Standard Specifications; and

WHEREAS, the purchase of this culvert will expediate the installation of this project during a narrow in-water work construction window and allow Public Works to receive more competitive bids for the project.

NOW THEREFORE BE IT RESOLVED that the Department of Public Works is instructed to issue a Call for Bids and Contract Specifications for the material purchase of a precast concrete split box culvert for Kruger Road (MP 1.2), CMP 15-1904. Bids for this project shall be submitted to the Clerk of the BOCC (351 N.W. North Street, Room 210, CMS-01, Chehalis, WA 98532) by or before 12:15 p.m. on Thursday, March 30, 2023, and will be opened at or after 12:15 p.m. on March 30, 2023, subject to official proposal addenda that establishes an alternate bid due date or opening time.

DONE IN OPEN SESSION this 14th day of March, 2023.

Page 1 of 2 Res. 23-090

APPROVED AS TO FORM: Jonathan Meyer, Prosecuting Attorney BOARD OF COUNTY COMMISSIONERS LEWIS COUNTY, WASHINGTON

Kevin A. McDowell

Sean D. Swope

By: Kevin A. McDowell,

Sean D. Swope, Chair

Deputy Prosecuting Attorney

ATTEST:

Scott J. Brummer

Scott J. Brummer, Vice Chair

Rieva Lester

Lindsey R. Pollock, DVM
Lindsey R. Pollock, DVM, Commissioner

Rieva Lester, Clerk of the Lewis County Board of

County Commissioners

Page 2 of 2

Res. 23-090



Lewis County Department of Public Works

Josh S. Metcalf, PE, Director Tim Fife, PE, County Engineer

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN that 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 **Thursday, March 30, 2023**, at the Lewis County Courthouse in Chehalis, Washington, for the Culvert Material Purchase – Kruger Rd. MP 1.2 Culvert Project.

SEALED BIDS MUST BE DELIVERED BY OR BEFORE 12:15 P.M. on Thursday, March 30, 2023

(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.)

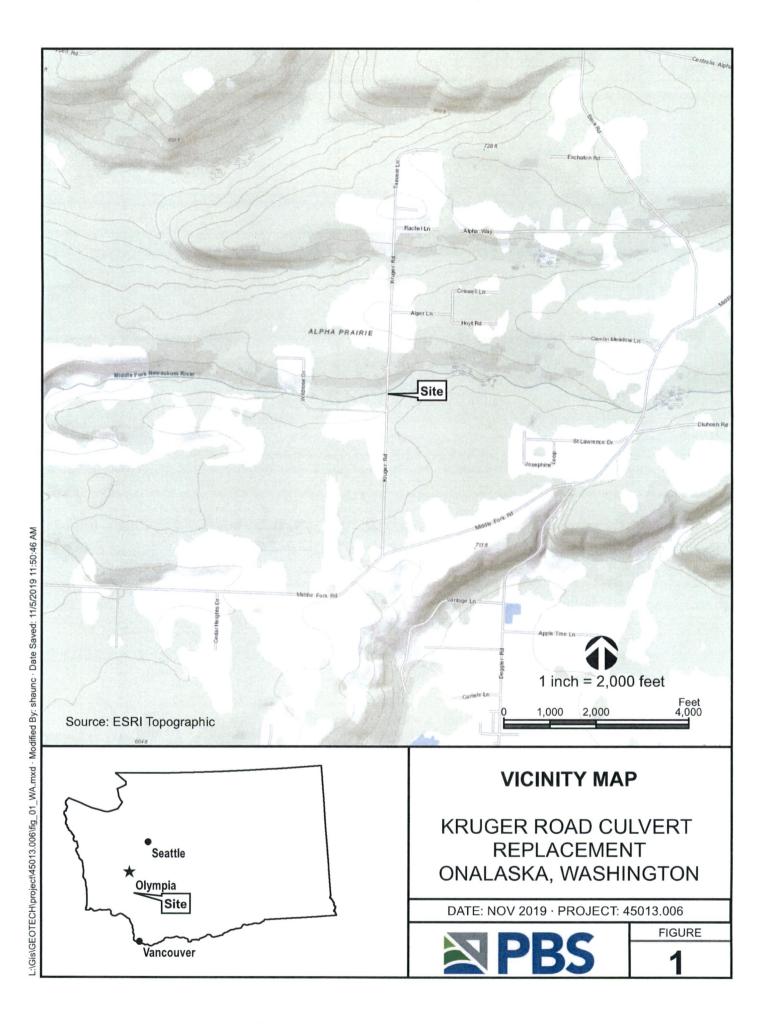
Sealed proposals must be delivered to the Clerk of the Board of Lewis County Commissioners (351 N.W. North Street, Room 210, CMS-01, Chehalis, Washington 98532), by or before 12:15 P.M. on the date specified for opening, and in an envelope clearly marked: "SEALED BID FOR CULVERT MATERIAL PURCHASE – KRUGER ROAD MP 1.2 CULVERT REPLACEMENT PROJECT, CMP 15-1904, TO BE OPENED ON OR AFTER 12:15 P.M. ON THURSDAY, MARCH 30, 2023."

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 and furnish satisfactory contract bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the Lewis County Public Works Department.

Informational copies of maps, plans and specifications are on file for inspection in the office of the County Engineer of Lewis County in Chehalis, Washington. The contract documents may be viewed and downloaded from Lewis County's Web Site @ www.lewiscountywa.gov or you may call the Lewis County Engineers office @ (360) 740-2671 and request a copy be mailed to you.

The Lewis County Public Works Department in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin, or sex in consideration for an award.

Publish in: The Chronicle and The Seattle Daily Journal of Commerce / March 16 and 23, 2023



REQUEST FOR SEALED BID

Culvert Material Purchase – Kruger Road MP 1.2 Culvert Replacement CMP 15-1904

1. SCOPE

The purpose of this request for sealed bid is to purchase a 21-ft wide by 11-ft high by 43-ft long precast reinforced concrete split-box culvert with headwalls and four wing walls as depicted and described in the attached "100% Submittal Construction Plans" dated June 2020. The box culvert structure shall support two-lane, two-way AASHTO HL-93 traffic loading aligned per Sheet C-201.

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 (21) working days of contract award. Plans shall include connection details, lifting details, assembly, and installation details. The structure and all wingwall components shall be completed and ready for Lewis County inspection by July 31, 2023. Lewis County anticipates placing the structure during the third week of August 2023. 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 2024. Project postponement will be determined by June 30, 2023, when construction easements for the project are expected to be finalized. 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, please contact Rod Lakey via telephone (360-520-9729) or email (Rodney.Lakey@lewiscountywa.gov) or 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 (Kruger Road MP 1.2, closest address 337 Kruger Rd, Onalaska, WA 98570), see the Vicinity Map in the attached "100% Submittal Construction Plans" dated June 2020.
- 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 21-ft Span by 11-ft High interior dimensions and wing wall dimensions as specified.
- The proposed concrete split-box culvert base units shall incorporate a minimum 7 -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 2023 Standard Specification for Road, Bridge, and Municipal Construction (2023 Standard Specifications). All supplied material, components and related Manufacturer supplied plans/shop drawings shall meet all requirements listed in the 2023 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 and wingwalls to the project site at MP 1.2 on Kruger Road in Lewis County, near Onalaska, WA. This water crossing structure shall be designed to support HL-93 vehicle loading and shall be constructed to the width, length and height as described within this Contract and the attached "100% Submittal Construction Plans" dated June 2020.

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 16-Dec-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 as depicted in the attached "100% Submittal Construction Plans" dated June 2020. Note, furnishing and installation of all guardrail and fencing shall be completed by others after delivery of culvert components to the project site.

6-20.3(1)H Concrete Structures paragraph 8 shall be replaced with the following: A method of shear transfer shall be provided between the top slabs of adjacent precast units to equalize deflections by incorporating structural connection between adjacent precast units capable of transferring the imposed shear and equalizing deflections. The structural connection shall include cast-in-place reinforced concrete closures or grouted shear keys with steel weld ties at 5-ft on center. A similar connection shall be incorporated at the end culvert to wingwall connections and all wingwall to wingwall connections (for multi-section wingwalls).

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—Kruger Rd MP 1.2" 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 (21-ft Span by 11-ft High by 43-ft Long with four wing walls and two headwalls, as specified) to Kruger Rd. MP 1.2, in Lewis County, near Onalaska, 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 30, 2023**, at the Lewis County Courthouse, Chehalis, Washington, for the Culvert Material Purchase—Kruger Rd. MP 1.2 Culvert Project, CMP 15-1904.

SEALED BIDS MUST BE DELIVERED BY OR BEFORE 12:15 P.M. on Thursday, March 30, 2023

(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 – KRUGER ROAD MP 1.2 CULVERT REPLACEMENT PROJECT, CMP 15-1904, TO BE OPENED ON OR AFTER 12:15 P.M. ON THURSDAY, MARCH 30, 2023."

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)

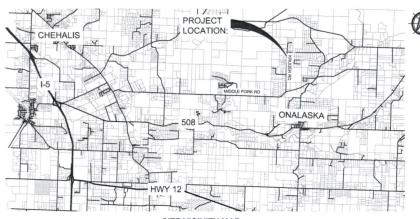
PRICE SHEET

Bid Item	Description	Quantity	Unit	Unit Price	Total Price
1	Culvert Material Purchase—Kruger Rd I 21-ft Span by 11-ft High by 43-ft Long Pr Rieforced Concrete Split Box Culvert (wir Wingwalls and Two Headwalls) Material	ecast th Four	Lump Sum		
	to Kruger Rd. MP 1.2 Near Onalaka, WA).	SUBTOTAL	
		Washing	ton State Sa	les Tax 7.8%	
				TOTAL	
6. CON	DITIONS				
and beyo dela Plea valio *Reo SIG	ein. The successful bidder shall be lia all costs incurred by Lewis County du and the agreed delivery date as identifys shall be limited to the total cost of ase be apprised that a bid bond shall a das per the Call for Bid. Ceipt is hereby acknowledged of added NATURE OF AUTHORIZED OFFICIAL COPOSAL Must be Signed	ue to delays in the fied in Part 1. Th the bid for the ma accompany this p endum(s) Numbe	e delivery of e liability fo terials as c roposal in c r(s) 1	f any materials or costs due to contained in this properties of the contained in the contai	specified here material delive s Proposal. roposal to be
	Company Name				
	Address				
Unified	Business Identifier (U.B.I.) No.				
	Telephone #				
	Federal ID No.				
chment:	Kruger Rd MP 1.2 Culvert Replacem "100% Submittal Construction Plans"			aukum Tributa	ry)
*****	*********	******	*****	******	*****
EWIS COUN	TY USE ONLY				
		AWARD RESOLU	JTION NO.		
		APPROVED:	JTION NO.		

SEC. 18, T13N, R01E

KRUGER RD MP 1.20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT, CMP 1904

LEWIS COUNTY PUBLIC WORKS



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 PREP AND TESC PLAN 1		
4	C-102	SITE PREP AND TESC PLAN 2		
5	C-103	BYPASS ROAD PLAN AND PROFILE		
6	C-104	SITE PREP AND TESC DETAILS		
7	C-201	STREAM PLAN AND PROFILE		
8	C-202	CULVERT DETAILS		
9	C-203	STREAM DETAILS		
10	C-301	ROADWAY PLAN AND PROFILE 1		
11	C-302	ROADWAY PLAN AND PROFILE 2		
12	C-303	ROADWAY SECTIONS		
13	C-304	PROJECT CROSS SECTIONS		
14	C-401	PLANTING PLAN 1		
15	C-402	PLANTING PLAN 2		
16	C-403	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:
RODNEY LAKEY
SENIOR DESIGN ENGINEER
E-MAIL: RODNEY,LAKEY@LEWISCOUNTYWA.GOV

CIVIL ENGINEER:
PBS ENGINEERING + ENVIRONMENTAL
1180 NW MAPLE STREET, SUITE 160 ISSAQUAH, WA 98027
PHONE: (425) 654-8775
FAX: (86) 727-0140

DAVE SEGAL, PE PROJECT MANAGER E-MAIL: DAVE.SEGAL@PBSUSA.COM

COMMISSIONERS:

EDNA FUND, DISTRICT 1 ROBERT C. JACKSON, DISTRICT 2 GARY STAMPER, 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

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

SITE LOCATION MAP

LEWIS COUNTY
DEPARTMENT OF PUBLIC WORKS
APPROVED FOR CONSTRUCTION:

Assistant County Engineer Date

100% SUBMITTAL

PBS Engineering and Enriconmental Inc. 1160 NW Magins St. Sin 160 Isssaquah, WA 69027 425,694,8775 pbbusa.com

PBS

COVER SHEET FOR: KRUGER RD MP 1,20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT LEWIS COUNTY, WASHINGTON

KRUG SON

PROJECT SITE



DESIGNED: DKE CHECKED: DAS JUNE 2020 45013.006

C-001

Existing Linety	ype Legend	Proposed/Future	Linetype Legend
Existing Right-of-way		Proposed Coated Chain Link I	Fence — o — o — o —
Existing Edge of Pavement		Proposed Edge Of Pavement	
Existing Centerline		Proposed Centerline	
Existing Lot Line		Proposed Guardrail	" " " " " " " " " " " " " " " " " " "
Existing Contour		Proposed Contour	253
Existing Flow Line	->	Proposed Flow Line	→…→
Existing Culvert	SD	Proposed Sawcut Line	
Existing Edge of Shoulder		Proposed Edge of Shoulder	
Existing Telephone Line	— т — т —	Proposed Paint Stripe	
Existing Overhead Power	OHP	Proposed Lath with Rag Tape	_xx-
Existing Water Line	WL	Proposed Cut Limit	-c-c-c-
Existing Fence	××	Proposed Fill Limit	— F — F — F —
Existing Building		Proposed Clear and Grub Lim	it — — — — —
Existing Ordinary High Water	r ohw	Proposed Straw Wattles	***************************************
Existing Wetland Boundary		Proposed High Visibility Silt Fe	ence -0
Area Of Potential Effect			

Symbol Legend	
Proposed Flow Arrow	\leftarrow
Existing Flow Arrow	\Diamond
Existing Sign	þ
Existing Deciduous Tree	0
Existing Coniferous Tree	Δ
Existing Fence Post	×
Existing Power Pole	⊖
Bypass Culvert Pipe	
Removed Deciduous Tree	Q
Removed Coniferous Tree	Δ

	Abbreviat	ion Legend	
Acres	AC	Maximum	MAX
Bottom of Foundation	BOF	Minimum	MIN
Catch Basin	СВ	Number	No. or #
Cubic Feet	CF	On Center	O.C.
Centerline	€	Ordinary High Water	OHW
Compaction	COMP	Overhead Power	OHP
Concrete	CONC	Point Of Curve	PC
Construction	CONST	Point Of Tangent	PT
Corrugated Metal Pipe	CMP	Point Of Vertical Intersection	PVI
Cubic Yard	CY	Right Of Way	ROW
Diameter	DIA	Sheet	SHT
Edge Of Pavement	EOP	Station .	STA
Elevation	EL	Standard	STD
Existing	EXIST	Storm	STM
Finished Grade	FG	Telephone	TEL
Invert Elevation	IE	Temporary	TEMP
Large Woody Debris	LWD	Top Of Wall	TOW
		Typical	TYP
		Washington Department Of Fish And Wildlife	WDFW

н	latching Legend
	Existing Wetland
83	Existing Ground
	Existing Hot Mixed Asphalt
3	Proposed Shoulder
	Proposed Crushed Surfacing Top Co
	Proposed Crushed Surfacing Base C
	Proposed Hot Mixed Asphalt
**	Proposed Streambed Mix
000	Proposed Construction Entrance
S	Proposed Concrete
	Proposed Select Borrow
A. A.	Proposed Common Borrow
32	Proposed Gravel Backfill
	Proposed Bypass Road
33	Proposed Soil Section
	Proposed Plastic For Cofferdam

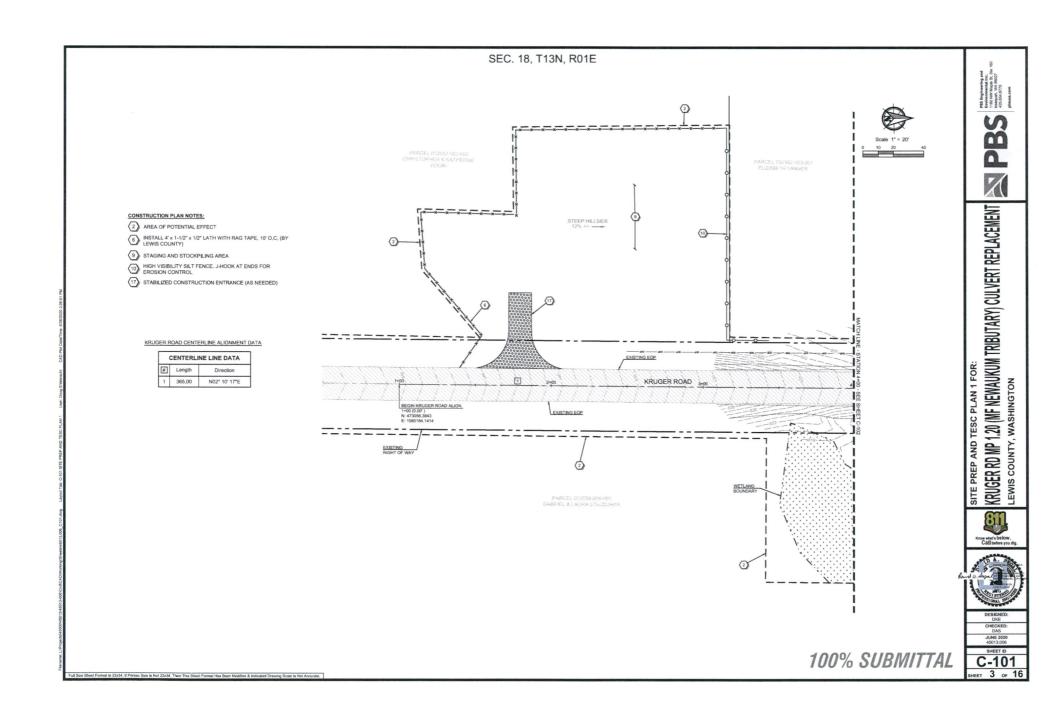
LEGEND FOR: KRUGER RD MP 1.20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT LEWIS COUNTY, WASHINGTON

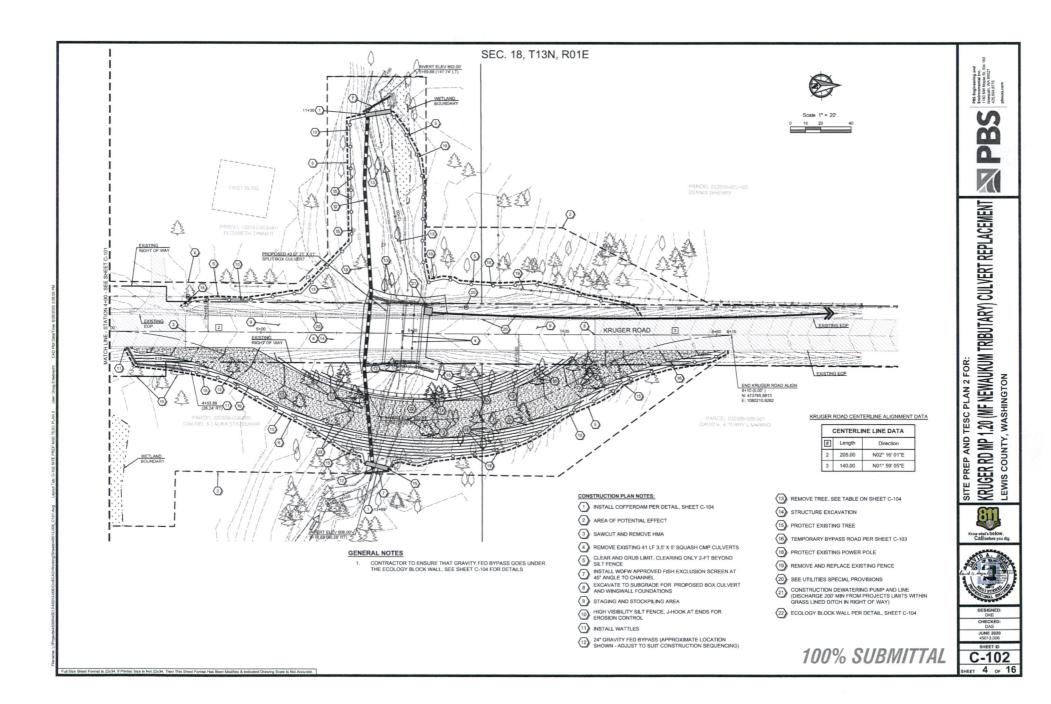


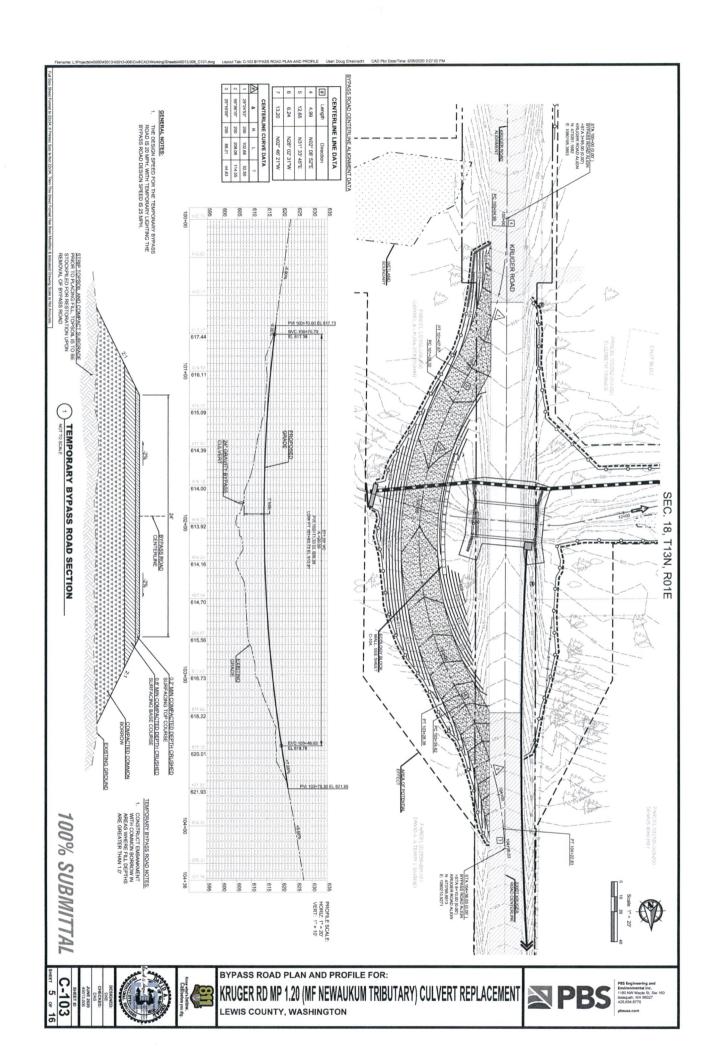


DESIGNED:
DICE
CHEICKED:
DAS
JUNE 2020
45013,006
SHEET IO
C-002
SHEET 2 of 16

100% SUBMITTAL







BASIS OF DESIGN FOR BLOCK WALL IS ELUCIOUS BLOCK. BLOCKS ARE ASSUMED TO BE H42.5 X W42.5 X L+5.

 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS & VERIFY SITE CONDITIONS MATCH DEPICTED DESIGN, FOR REVIEW AND APPROVAL BY THE RIGNEER SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION.

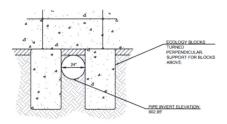
 WALL CONFIGURATION AS FOLLOWS:

WALL CONFIGURATION AS FOLLOWS:

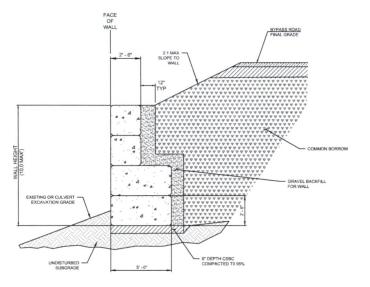
1-2 BLOCKS STACKED: PLACE BLOCKS PERPENDICULAR TO TEMPORARY BYPASS ROAD.

3 BLOCKS STACKED: TOP TWO PLACED PARALLEL TO TEMPORARY BYPASS ROAD ALIGNMENT. BOTTOM BLOCK PLACED PERPENDICULAR 3.2. TO ALIGNMENT

10 ALIGNMENT.
4 BLOCKS STACKED: AS SHOWN ABOVE. TOP 2 BLOCKS PLACED
PARALLEL TO TEMPORARY BYPASS ROAD ALIGNMENT, BOTTOM BLOCKS
PLACED PERPENDICULAR TO ALIGNMENT.



PIPE & BLOCK WALL DETAIL

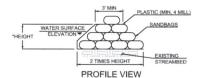


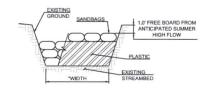
ECOLOGY BLOCK WALL DETAIL

	Р	oint Table		
Point #	Raw Description	Elevation	Northing	Easting
5975	TD 12 ALDER	606,78	473530.69	1080093,47
5583	TC 8 CEDAR	619.00	473671.11	1080238.43
5398	TC 30CEDAR	607.08	473541.76	1080228.68
5974	TD 12 ALDER	607.14	473536.71	1080094.80
5483	TD 24 COTTEN	605.64	473560.07	1080271.68
5803	TC 12 DBL CEDAR	621.73	473436.70	1080225.99
5578	TC 18 CEDAR	616.32	473660.62	1080231.89
5770	TD 14 ALDER	608.97	473548.11	1080141.57
5769	TD 10 MAPLE	605.11	473543.14	1080172.16
5513	TD 24ASH	83,803	473584.61	1080248,80
5584	TC 20 CEDAR	620,34	473676.84	1080244.20
5520	TD 8 ALDER	612,56	473640.47	1080232.10
5768	TD 16 MAPLE	606.59	473538.41	1080175.86
5576	TD 20 ALDER	608,15	473513.62	1080259,51
5589	TC 6 FIR	618,29	473688.04	1080234,21
5580	TC 20 CEDAR	618.57	473674.12	1080234.47
5516	TD 16COTTEN	608.12	473585.10	1080278.82
5579	TC 8 CEDAR	617.66	473670.66	1080231,20
5515	TD 6MAPLE	608.58	473582.51	1080264.49
5575	TD 20 DBL ALDER	607.72	473521.29	1080252.27

	P	oint Table		
Point #	Raw Description	Elevation	Northing	Easting
5511	TC 18 CEDAR	608.30	473596,09	1080264,7
5574	TC 9 CEDAR	608.04	473519.59	1080249.1
5510	TD 8 COTTEN	608.32	473607.03	1080266.8
5573	TC 6 DBL CEDAR	607.97	473516.78	1080246.0
5509	TD 18 COTTEN	608.84	473605.83	1080268.3
5571	TC 18 CEDAR	609.44	473509.56	1080235.3
5570	TC 40 CEDAR	610.82	473509.88	1080230.4
5568	TD 16 ALDER	609.73	473501.00	1080232.0
5504	TD 14 DBLALDER	609.89	473622.08	1080239.4
5567	TD 16 ALDER	611.04	473491.54	1080235.3
5503	TD 18ALDER	608.28	473607.18	1080238.7
5564	TC 24 CEDAR	611,81	473485.45	1080235.8
5562	TC 16 CEDAR	612.78	473480,02	1080250.3
5560	TC 24 CEDAR	610.16	473501,11	1080263,3
5496	TD 24 ASH	607.49	473574,19	1080233.1
5538	TD 8 COTTON	608.70	473600.12	1080282.2
5536	TD 8 COTTON	608.44	473605.16	1080277
5530	TC 16CEDAR	612.07	473626.88	1080261.0
5529	TC 24 MAPLE	612.07	473628.76	1080266.8
5523	TC 10 CEDAR	611.84	473636.05	1080240.3

Point Table							
Point#	Raw Description	Elevation	Northing	Easting			
5521	TD 8 ALDER	611.54	473637.16	1080235.79			
5508	TD 18 COTTEN	609.05	473610.32	1080271.84			
5501	TC 12 CEDAR	607.88	473595.73	1080236.48			
5495	TC 24CEDAR	607.33	473575.64	1080247.46			
5494	TC 14CEDAR	607.18	473571.82	1080248.28			
5492	TC 16 CEDAR	607.34	473567.28	1080245.69			
5491	TC 6 CEDAR	607.03	473565.79	1080249.12			
5490	TD 18MAPLE	607,57	473567.78	1080252,52			
5488	TD 8ASH	607.78	473578.67	1080264,62			
5486	TD 6 ASH CLP	608.07	473568.88	1080264,99			
5484	TC 16 CEDAR	605.07	473563.70	1080272.60			





SECTION VIEW

- COFFERDAM NOTES:

 1. SANDBAGS SHALL BE USED IN ACCORDANCE WITH APPLICABLE PERMITS.
- INSTALL COFFER DAM AND DEWATERING SITE PRIOR TO CONSTRUCTION.
 WATER BLADDERS, SUPER SACKS, OR APPROVED EQUAL CAN BE USED AS ALTERNATIVES TO COFFERDAMS.
 PROVIDE 1.0' FREEBOARD.

DIMENSIONS SHOWN ARE MINIMUMS. CONTRACTOR TO SEE SPECIAL PROVISIONS.

COFFERDAM

100% SUBMITTAL





KRUGER RD MP 1.20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT

SITE PREP AND TESC DETAILS FOR: LEWIS COUNTY, WASHINGTON

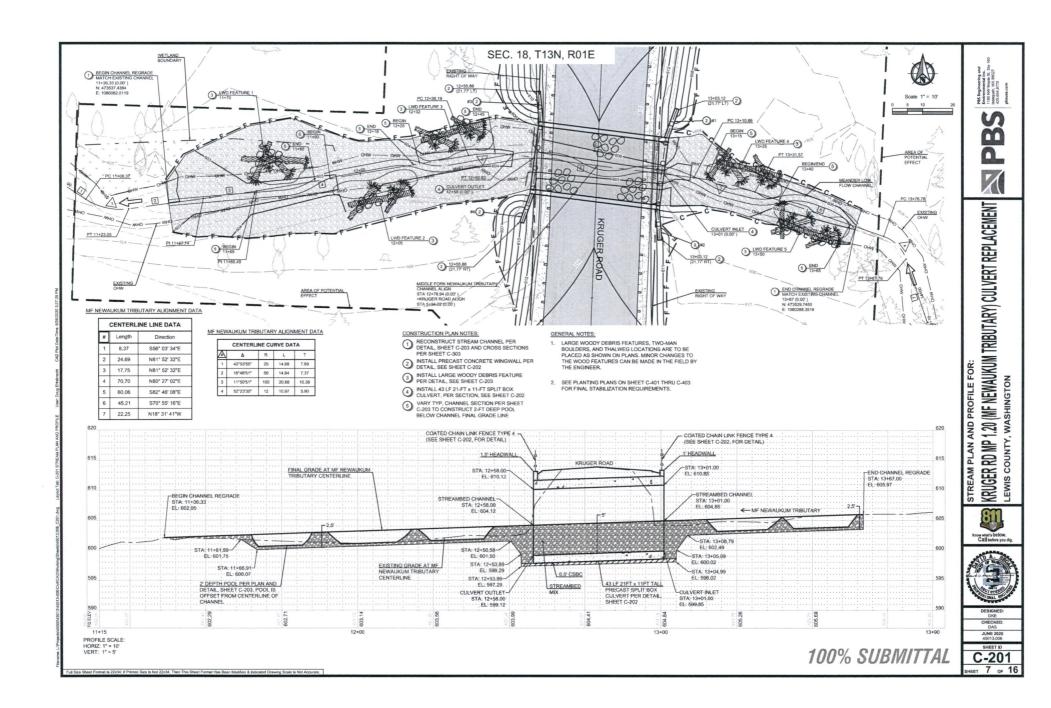




DESIGNED: DKE CHECKED: DAS JUNE 2020 45013.006

C-104 SHEET 6 OF 16

TREE REMOVAL TABLE





PBS

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KRUGER RD MP 1.20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT

CULVERT DETAILS FOR:
KRUGER RD MP 1.20 (MF NEWAU
LEWIS COUNTY, WASHINGTON

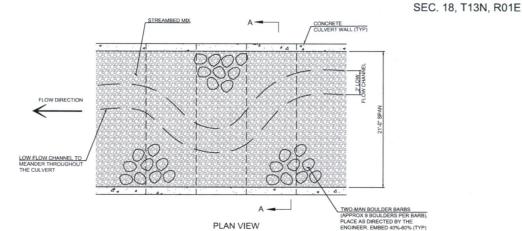
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JUNE 2020 45013.006 SHEET ID

C-202





 LARGE WOODY DEBRIS FEATURES, TWO-MAN BOULDERS, 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.

STREAMBED MIX: THREE PARTS 12* STREAMBED COBBLES
 SHALL BE MIXED THOROUGHLY WITH TWO PARTS STREAMBED
 SEPIMENT

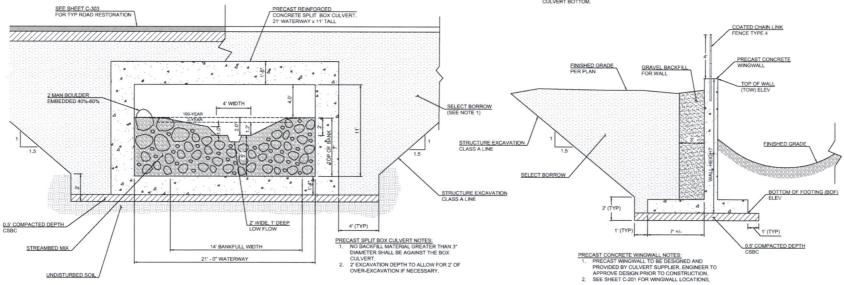
 STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND BOULDER BARBS AND BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM, NON-POROUS BED.

4. SEE SHEET C-203 FOR STREAMBED GRADATIONS.

 SEE PLANTING PLANS ON SHEETS C-401 THRU C-403 FOR FINAL STABILIZATION REQUIREMENTS.

WINGWALL TABLE					
WINGWALL NO.	LENGTH (FT)	ANGLE TO CULVERT OPENING (DEGREES)	BEGIN HEIGHT (FT)	END HEIGHT (FT)	BOF ELEV
1 (NE)	10	168	14,83	12	598,52
2 (SE)	10	168	14.83	13.75	598,52
3 (NW)	10	168	15,33	14.83	597.79
4 (SW)	10	168	15,33	13	597,79

* HEIGHT OF WALL INCLUDES ASSUMED 16* THICK FOOTING, MATCH BOTTOM OF FOOTING WITH CULVERT BOTTOM,



SECTION A-A

PRECAST SPLIT BOX CULVERT
NOT TO SCALE

PRECAST CONCRETE WINGWALL
NOT TO SCALE

100% SUBMITTAL

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C-203 янеет 9 of 16

SEC. 18, T13N, R01E

GENERAL NOTES: 1. LARGE WOODY DERRIS FEATURES, TWO-MAN BOULDERS, AND THALWEG LOCATIONS ARE TO BE PLACED AS SHOWN ON PLANS, MINOR CHANGES TO THE WOOD FEATURES CAN BE MADE IN THE FIELD BY

2. STREAMBED MIX: THREE PARTS 12" COBBLES SHALL BE MIXED THOROUGHLY WITH TWO PARTS STREAMBED SEDIMENT.

3. STREAMBED SEDIMENT IS TO PROVIDE STABILITY TO THE STREAMBED MIX AND BE PLACED IN AREA OF VOIDS TO CREATE A UNIFORM, NON-POROUS BED.

SEE PLANTING PLANS ON SHEET C-401 THRU C-403 FOR FINAL STABILIZATION REQUIREMENTS.

	ROCK QUANTITY	
ROCK	MEASUREMENT	TOTAL
STREAMBED BOULDER TWO MAN	EACH	134

LARGE WOODY D	DEBRIS CON	TROL TABLE
LWD FEATURE STATION	LOGS*	VOLUME (FT3)
11+70	1,2,2,3	149.6
12+05	1,2,2,3	149.6
12+32	1,2,2,3	149.6
13+25	1,2,2,2,3,3	192.9
13+50	1,2,2,2,3,3	192,9

SEE	LOG	SCH	EDULE	BELOW

BOTTOM OF CHANNEL

LOG SCHEDULE						
LOG#	LOG LENGTH (FT)	LOG DIAMETER (FT)	ROOTWAD LENGTH (FT)	ROOTWAD DIAMETER (FT)	VOLUME (FT ³)	
1*	20	2	2	3	71.3	
2*	15	1.5	2	3	35.0	
3	5	1	1.5	2.5	8,3	

STACKED LOG

TOP OF CHANNEL

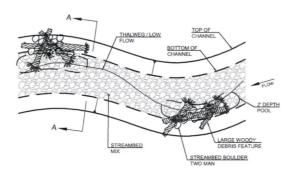
* KEY LOG (VOLUME > 35 FT3)

5"	30 - 60				
¾"	10 MAX				
STREAMBED SEDI	STREAMBED SEDIMENT GRADATION				
SIEVE SIZE	% PASSING				
2.5"	99 - 100				
2"	65 - 95				
1"	50 - 85				
U.S. NO. 4	26 - 44				
U.S. NO. 40	16 MAX				
U.S. NO. 200	5.0 - 9.0				
STREAMBED B	OULDER SIZING				
ROCK SIZE	APPROXIMATE SIZE				
TWO-MAN	18" - 28"				

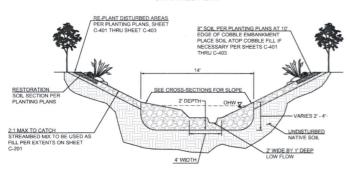
KEY LOG

VERTICAL LOG

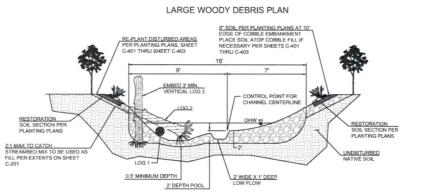
12" STREAMBED COBBLES GRADATION



CHANNEL PLAN



CHANNEL SECTION A-A



STREAMBED BOULDER TWO MAN VERTICAL LOG LOG #3

2' DEPTH POOL

THALWEG / LO

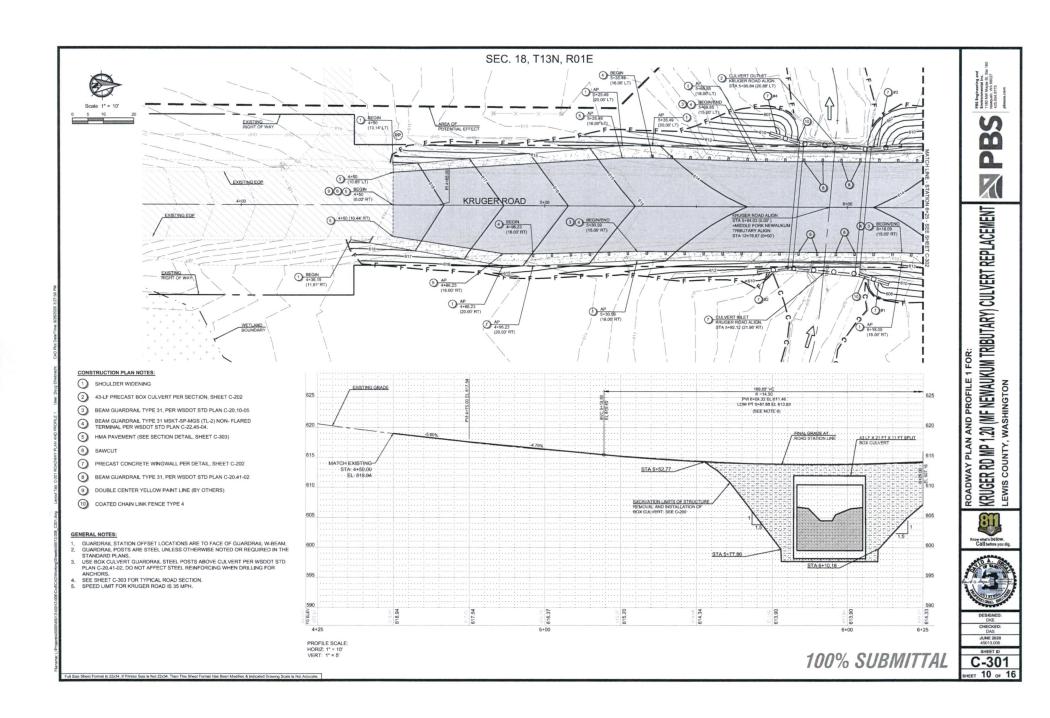
STACKED LOG

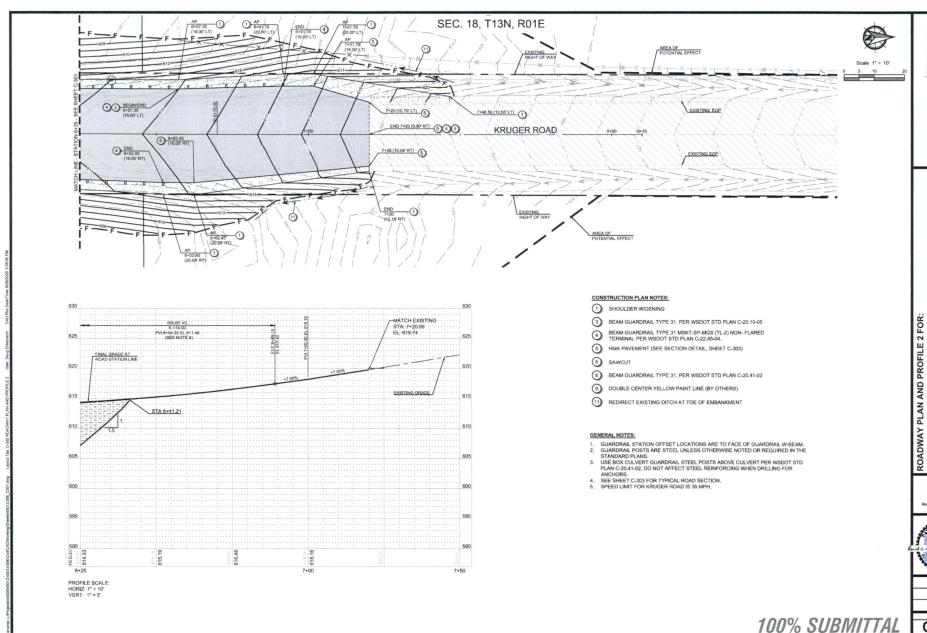
LARGE WOODY DEBRIS SECTION B-B

MF NEWAUKUM TRIBUTARY CHANNEL

LARGE WOODY DEBRIS FEATURE

100% SUBMITTAL





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KRUGER RD MP 1.20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT

Know what's below. Call before you

DESIGNED: DKE CHECKED: DAS JUNE 2020 45013.006

C-302 неет 11 ог 16



CONSTRUCTION NOTES:

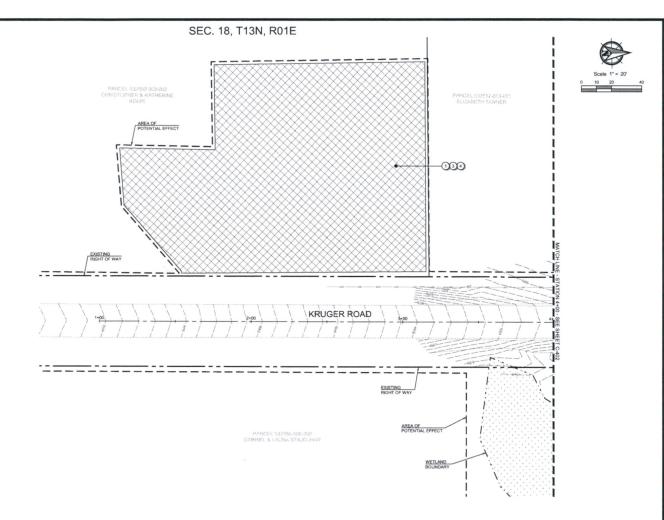
- IN AREAS OF DISTURBED SOILS ONLY, CULTIVATE
 OR SCARIFY SUBGRADE TO 4" DEPTH TO ALLOW FREE DRAINAGE. REMOVE ALL CONSTRUCTION DEBRIS, AND ROCKS OVER 2" Ø.
- IN AREAS OF DISTURBED SOILS ONLY, PREPARE
 AREA FOR APPLICATION OF SEEDING PER
 STANDARD SPECIFICATION 8-01.3(2)A,
- 4 USING LONG TERM MULCH PER STANDARD SPECIFICATION 8-01.3(2)D.

PLANTING MITIGATION NOTES:

- FOR SEEDING LIST, SEE THIS SHEET, FOR PLANTING LIST, SEE SHEET C-402.
- 2. FOR PLANTING DETAILS, SEE SHEET C-403.
- 3. EXISTING PLANT MATERIAL IS TO BE PROTECTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ANY TREES DAMAGED THAT ARE NOT IDENTIFIED IN THE TREE REMOVAL TABLE ON SHEET C-104 DUE TO CONSTRUCTION ACTIVITIES ARE TO BE REPLACED.
- 4. NO PLANTS SHALL BE INSTALLED WITHIN 10' OF PAVEMENT OR ROAD.
- 5. HYDROSEEDING TO BE APPLIED TO BARE GROUND ONLY.

PLANTING AREA & SEEDING LEGEND:

RESTORATION SEED MIX



		SEEDING LI	ST		
SYM	QTY	BOTANICAL NAME	COMMON NAME	% BY WEIGHT	PLS LBS NEEDED
RESTORATION SEED	MIX	•			
		Elymus glaucus	Blue Wildrye	43%	31.8
		Hordeum brachyantherum	Meadow Barley	37%	27.4
		Lolium multiflorum	Sterile Annual Ryegrass	11%	8.1
	40,000 sf (74 LBS)	Festuca idahoensis	Idaho Fescue	7%	5.2
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Festuca ovina	Sheep Fescue	1%	0.75
Apply at 80lbs/acre with Long Term Mulch		Deschampsia elongata	Slender Hairgrass	0.6%	0.45
		Koeleria macrantha	Prairie Junegrass	0.4%	0.3

100% SUBMITTAL







KRUGER RD MP 1.20 (MF NEWAUKUM TRIBUTARY) CULVERT REPLACEMENT LEWIS COUNTY, WASHINGTON

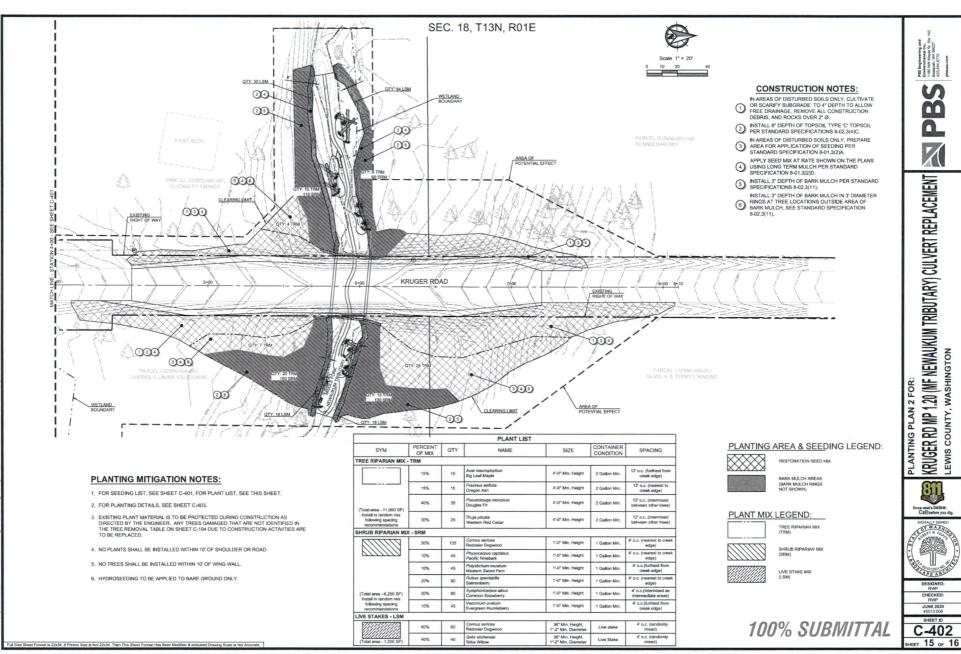
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C-401 неет 14 ог 16

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- REFER TO COUNTY STANDARD SPECIFICATIONS WHERE APPLICABLE.
- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCE EXIST THAT MAY NOT HAVE DISCREPANCIES ANDIOR GRADE OFFERENCE EXIST THAT MAY NOT HAVE BEEN NOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE COUNTY'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO QUYE SUCH NOTIFICATIONS.

PLANTING NOTES:

INSTALLATION:

- THE CONTRACTOR SHALL INSTALL PLANTINGS ACCORDING TO THESE PLANS, DETAILS, AND THE SPECIFICATIONS.
- VERIFY LOCATIONS OF ALL PERTINENT SITE IMPROVEMENTS UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE COUNTY'S AUTHORIZED REPRESENTATIVE FOR INSTRUCTION PRIOR TO COMMENCING WORK.
- 3. FXACT LOCATIONS OF PLANT MATERIALS SHALL BE REVIEWED BY THE COUNTYS AUTHORIZED REPRESENTATIVE IN THE FIELD PRICE TO INSTALLATION. COUNTYS AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN THE FIELD.
- ALL PLANTS SHALL BE GROWN FOR THIS REGION OR SHALL BE ADEQUATELY CLIMATIZED.
- DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED PLANTING MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE (5) SOURCES TO THE COUNTY LANDSCAPE ARCHITECT, TOGETHER WITH THE PROPOSAL FOR USE OF EQUIVALENT MATERIAL FOR FINAL
- CONTRACTOR SHALL CONTACT THE COUNTY'S REPRESENTATIVE FOR PLANT MATERIAL INSPECTION PRIOR TO INSTALLATION.
- CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING LANDSCAPE AFFECTED BY CONSTRUCTION TO IT'S ORIGINAL CONDITION. CONTACT LANDSCAPE ARCHITECT IF ANY AREAS NOT ORIGINALLY LANDSCAPED, BECOME LANDSCAPE.
- ALL PLANTS SHALL CONFORM PER WSDOT STANDARD PLAN H-10,10-00, CURRENT AMERICAN STANDARD NURSERY STOCK (ASNS) AND THESE PLANS.

TREE PROTECTION STANDARDS:

NAMES AND ASSESSED AS A STATE OF THE STATE O

PROTECTIVE BARRIER:
BEFORE DEVELOPMENT, LAND CLEARING, FILLING OR ANY LAND ALTERATION
FOR WHICH A TREE REMOVAL PERMIT IS REQUIRED, THE APPLICANT SHALL:

ERECT AND MAINTAIN A READILY VISIBLE PROTECTIVE FENCE ALONG THE OUTER EDGE AND COMPLETELY SURROUNDING THE PROTECTED AREA OF ALL PROTECTED TREES OR EROSION CONTROL PLANS FOR

PROHIBIT EXCAVATION OR COMPACTION OF EARTH OR OTHER POTENTIALLY DAMAGING ACTIVITIES WITHIN THE BARRIERS.

MAINTAIN THE PROTECTIVE BARRIERS IN PLACE UNTIL THE ENGINEER AUTHORIZES THEIR REMOVAL.

ENSURE THAT ANY LANDSCAPE WORK DONE IN THE PROTECTED ZONE SUBSEQUENT TO THE REMOVAL OF THE BARRIERS SHALL BE ACCOMPLISHED WITH LIGHT MACHINERY OR HAND LABOR.

IN ADDITION TO THE ABOVE, THE ENGINEER MAY REQUIRE THE FOLLOWING:

COVER WITH MULCH TO A DEPTH OF AT LEAST 12 INCHES OR WITH PLYWOOD OR SIMILAR MATERIAL THE AREAS ADJOINING THE CRITICAL ROOT ZONE OF A TREE. IN ORDER TO PROTECT ROOTS FROM DAMAGE CAUSED BY HEAVY EQUIPMENT.

MINIMIZE ROOT DAMAGE BY EXCAVATING A 2 FOOT DEEP TRENCH, AT EDGE OF CRITICAL ROOT ZONE, TO CLEANLY SEVERE THE ROOTS OF TREES TO BE RETAINED.

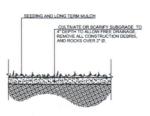
HAVE CORRECTIVE PRUNING PERFORMED ON PROTECTED TREES IN ORDER TO AVOID DAMAGE FROM MACHINERY OR BUILDING ACTIVITY.

GRADE.

THE GRADE SHALL NOT BE ELEVATED OR REDUCED WITHIN THE CRITICAL ROOT
THE GRADE SHALL NOT BE ELEVATED OR REDUCED WITHIN THE REGRESTRA SHITHORDATION.
THE ENDRESE MAY ALLOW COVERAGE OF UP TO OR HALF OF THE ARREST
THE REST CRITICAL ROOT ZONE WITH LIGHT SOLS IND CLAY TO THE MARKAN
DEPTH NECESSARY TO CARRY CUT GRADING OR PLANTOR PLANS, IF IT MLL.
NOT AMERIC, THE SURVINAL OF THE TREE. AERATION DEVICES MAY BE
REQUIRED TO SURREY THE TREES SOLVINAL.

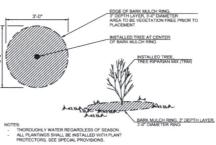
IF THE GRADE ADJACENT TO A PRESERVED TREE IS RAISED SUCH THAT IT COULD SLOUGH OR ERODE INTO THE TREE'S CRITICAL ROOT ZONE, IT SHALL BE PERMANENTLY STABILIZED TO PREVENT SUFFOCATION OF THE ROOTS.

TREES AND OTHER VEGETATION TO BE RETAINED SHALL BE PROTECTED FROM THEES AND OTHER VEGETATION TO BE METAMED SHALL BE PROTECTED FROM REQISION AND SEDIMENTATION, CLEARING OPERATION SHALL BE CONDUCTED SO AS TO EXPOSE THE SMALLEST PRACTICAL AREA OF SOIL TO EROSION FOR THE LEAST POSSIBLE TIME. TO CONTROL EROSION, SHRUBS, GROUNDCOVERS AND STUMPS SHALL BE MAINTAINED ON THE INDIVIDUAL LOTS, WHERE FEASIBLE. SEC. 18, T13N, R01E



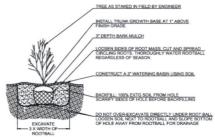
Restoration Seed Soil Cross Section

Bark Mulch Soil Cross Section



NOT TO SCALE





NOTES:
THOROUGHLY WATER REGARDLESS OF SEASON.
ALL PLANTINGS SHALL BE INSTALLED WITH PLANT PROTECTORS. SEE SPECIAL PROVISIONS.

Container Planting Detail



100% SUBMITTAL

3* DEPTH LAYER OF BARK OR WOOD CHIP MULCH

EXISTING SUBGRADE

Live Stake Planting Detail

Know what's below. Call before you dig.

DIGITALLY SIGNED THE ARCHITE

DESIGNED: CHECKED:

C-403 неет 16 ог 16

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BOCC AGENDA ITEM SUMMARY

Resolution:

BOCC Meeting Date: March 14, 2023

Suggested Wording for Agenda Item:

Agenda Type: Legal Notice

Call for bids for the material purchase of a precast concrete split box culvert for future installation at Kruger Road

Contact: Geoff Soderquist

Phone: 360-740-1175

Department: PW - Public Works

Description:

This resolution is a call for sealed bids for the material purchase of a precast concrete split box culvert for future improvement of Kruger Road (MP 1.2), CMP 15-1904, to be opened at or after 12:15 p.m. on March 30, 2023. Bids submitted after 12:15 p.m. on the date of bid opening will not be considered for this project.

Approvals:

User	Status	
PA's Office	Pending	

Publication Requirements:

Publications:

The Chronicle, March 16 and 23, 2023 The Seattle Daily Journal of Commerce, March 16 and 23, 2023

Additional Copies:

Rod Lakey, Tina Hemphill, Robin Saline, Zelma Hammer, Shayla Landon, Tim Fife, Geoff Soderquist, PW;

Cover Letter To: