

OWNER

CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION 420 HOWANUT ROAD OAKVILLE WA 98568 PH: 360-709-1862 CONTACT: BRIAN VON CLUCK

STRUCTURAL/CIVIL ENGINEER

SARGENT ENGINEER, INC 320 RONLEE LN NW OLYMPIA, WA 98502 PH: 360-867-9284 CONTACT: CRAIG MALLOW

GEOTECHNICAL ENGINEER

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POWER

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TELECOMUNICATIONS

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CENTURY LINK 711 CAPITOL WAY S, SUITE 307 OLYMPIA, WA 98502 PH: 360-754-5920 CONTACT: DIONI CARIAGA



HOWANUT ROAD HATCHERY BRIDGE PROJECT

PROJECT NUMBER: HATCHERY BRIDGE OAKVILLE WASHINGTON

CONFEDERATED TRIBES OF THE CHEHALIS RESERVATION

PROJECT LOCATION



- COVER SHEET
- NOTES, LEGENDS, ABBREVIATIONS & QUANTITIES
- SURVEY CONTROL PLAN TRAFFIC CONTROL PLAN
- PLAN AND PROFILE
- SHOULDER PLAN AND ROADWAY SECTIONS
- BRIDGE SECTIONS AND DETAILS

STANDARD SPECIFICATIONS

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF 2019 STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

DESIGN DATA

LOADING: HL93 LIVE LOAD, LRFD SPECIFICATION

DATUM

NAVD 1988, US FEET NAD 83/91, WASHINGTON SOUTH ZONE



SARGENT

SARGENT ENGINEERS, INC.

SEI Pr. No. – A19157.00



GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. ALL PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD AND WSDOT STANDARD DRAWINGS.
- 3. A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 4. ANY REVISIONS TO THE PLANS MUST BE APPROVED BY THE TRIBE PRIOR TO IMPLEMENTATION IN THE FIELD.
- 5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE IS BASED ON RECORDS OF THE VARIOUS UTILITIES AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE.
- 6. BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE APPLICANT SHALL HAVE THE UTILITIES VERIFIED ON THE GROUND PRIOR TO CONSTRUCTION. IF A CONFLICT OCCURS WITH THE DESIGN, THE CONTRACTOR SHALL NOTIFY THE CHEHALIS TRIBE.
- 7. THE COMPLETED SURFACE OF ALL COURSES SHALL BE OF UNIFORM TEXTURE, SMOOTH, UNIFORM AS TO CROWN AND GRADE, AND FREE FROM DEFECTS OF ALL KINDS. THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THAN 1/8 INCH FROM THE LOWER EDGE OF A 10 FOOT STRAIGHTEDGE PLACED ON THE SURFACE PARALLEL TO THE CENTERLINE. THE TRAVERSE SLOPE OF THE THE COMPLETED SURFACE OF THE WEARING COURSE SHALL NOT VARY MORE THAN 1/4 INCH IN 10 FEET FROM THE RATE OF THE TRANSVERSE SLOPE SHOWN ON THE PLANS.
- 8. MATERIAL SAMPLING AND TESTING SHALL BE AT A FREQUENCY AND MAGNITUDE AS SPECIFIED IN THE STANDARD SPECIFICATIONS. CERTIFIED TEST REPORTS SHALL BE FURNISHED FOR ALL TESTS PERFORMED.
- 9. IF ADEQUATE INSPECTION IS NOT CALLED FOR BEFORE COMPLETION OF THE ROADWAY CONSTRUCTION, IT MAY BE NECESSARY FOR CORE DRILLING AND TESTING TO BE PERFORMED TO ASSURE AN ACCEPTABLE QUALITY OF ROADWAY. WHEN CORE DRILLING IS FOUND TO BE NECESSARY, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED.
- 10. THE CHEHALIS TRIBE SHALL BE NOTIFIED 72 HOURS BEFORE CONSTRUCTION IS STARTED. THE CHEHALIS TRIBE SHALL BE RESPONSIBLE FOR SCHEDULING A PRECONSTRUCTION CONFERENCE WITH THE CONTRACTOR. OTHER JURISDICTIONS, PROJECT ENGINEER, UTILITY COMPANY, SUBCONTRACTORS, AND OTHER NECESSARY PARTIES TO THE PROJECT SHALL BE PRESENT AT THE PRECONSTRUCTION MEETING.

LEGEND

SURVEY CONTROL POINT	•
SIGN	.
POWER POLE	-0 _P
GUY POLE	-0- CP
GUY ANCHOR	
TELEPHONE PEDESTAL	
UNDERGROUND PHONE	
MAIL BOX	0
CENTERLINE ROAD	
GUARD RAIL	• • • • • • • •
EDGE GRAVEL ROAD	
BARBED WIRE FENCE	-000
ROW	
CUT CATCH LINE	
FILL CATCH LINE	
CULVERT	
OVERHEAD POWER	
NATIVE SHRUB/PLANTING BORDER	
TREE	

ABBREVIATIONS

Ø	DIAMETER
A/C	ASPHALT PAVEMENT
APPX	APPROXIMATE
BFS	BEGIN FULL SUPER
BNC	BEGIN NORMAL CROWN
BVCS	BEGIN VERTICAL CURVE S
BVCE	BEGIN VERTICAL CURVE E
CB	CATCH BASIN
CL	
CL	
CL.	
CSBC	CRUSHED SURFACING DAS
	CRUSHED SURFACING TUP
CP	
CPP	CORRUGATED POLYETHYL
FL	FLOW LINE
ELEV	ELEVATION
EFS	END FULL SUPER
ENC	END NORMAL CROWN
EP	EDGE OF PAVEMENT
EX	EXISTING
EVCS	END VERTICAL CURVE STA
EVCE	END VERTICAL CURVE ELE
FG	FINISHED GRADE
Н	HORIZONTAL
НМА	HOT MIX ASPHALT
IF	INVERT ELEVATION
ĸ	RATE OF VERTICAL CURVA
	I FFT
MIN	
NAVD	
NSI	NO STEEPER THAN
NIS	NUT TO SCALE
PC	POINT OF CURVATURE
PG	PERFORMANCE GRADED
PI	POINT OF INTERSECTION
PROP	PROPOSED
PT	POINT OR POINT OF TANG
R	RADIUS OR RIGHT
RC	REVERSE CROWN
PVI	POINT OF VERTICAL INTER
STA	STATION
STD	STANDARD
V	VERTICAL
WSDOT	WASHINGTON STATE DEP
W/	WITH
••/	

STATION ELEVATION

SE COURSE **OP COURSE**

LENE PIPE

FATION EVATION

/ATURE

JRVE

CAL DATUM

GENCY

ERSECTION

PARTMENT OF TRANSPORTATION

	SUMMARY OF QUANTITIES							
ITEM NO.	TOTAL QUANTITY	SUB-TOTAL SECTION 1-07.2(1) OF STANDARD SPECS	SUB-TOTAL SECTION 1-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	ROADWAY	BRIDGE
						PREPARATION		
1	L.S.	L.S.		0002	L.S.	MOBILIZATION	L.S.	
2	0.5	0.5		0025	ACRE	CLEARING AND GRUBBING	0.5	
3	L.S.	L.S.		0071	L.S.	REMOVING EXISTING BRIDGE L.S		L.S.
						GRADING		
4	200	200		0300	C.Y.	ROADWAY EXCAVATION	200	
5	435	435		0421	C.Y.	GRAVEL BORROW INCL. HAUL	435	
6	435	435		0470	C.Y.	EMBANKMENT COMPACTION	435	
						DRAINAGE		
7	670	670		1040	C.Y.	CHANNEL EXCAVATION INCL. HAUL		670
8	30	30		1074	C.Y.	LIGHT LOOSE RIPRAP		30
9	L.S.	L.S.			L.S.	FAST CAST BRIDGE 11H-36W-40L		L.S.
						STRUCTURE		
10	220	220		4006	C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL		220
11	L.S.	L.S.		4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A		L.S.
12	100	100		4025	C.Y.	GRAVEL BACKFILL FOR WALL		100
13	198	198		4325	C.Y.	CONC. CLASS 5000 FOR BRIDGE		198
						SURFACING		
14	305	305		5057	C.Y.	GRAVEL BASE		305
15	300	300		5115	C.Y.	CRUSHED SURFACING TOP COURSE		300
						HOT MIX ASPHALT		
16	21	21		5767	TON	HMA CL. 1/2 IN. PG	21	
17	CALC	CALC		5830	CALC	JOB MIX COMPLIANCE PRICE ADJUSTMENT	CALC	
18	CALC	CALC		5835	CALC	COMPACTION PRICE ADJUSTMENT	CALC	
						EROSION CONTROL AND ROADSIDE RESTORATION		
19	500	500		6373	L.F.	SILT FENCE	500	
20	0.5	0.5		6414	ACRE	SEEDING, FERTILIZING, AND MULCHING	0.5	
						TRAFFIC		
21	84	84			LF	TEXAS DOT T631 BRIDGE RAIL		84
22	4	4		6717	EACH	BEAM GUARDRAIL NON-FLARED TERMINAL	4	
23	150	150		6806	L.F.	PAINT LINE	150	
24	L.S.	L.S.		6971	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	
						OTHER ITEMS		
25	L.S.	L.S.		7037	L.S.	STRUCTURE SURVEYING		L.S.
26	L.S.	L.S.		7038	L.S.	ROADWAY SURVEYING	L.S.	
27	400	400		7114	L.F.	REMOVING AND RESETTING WIRE FENCE	400	





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POINT #	ELEVATON	NORTHING	EASTING
CP 9	93.39	553269.18	964118.48
CP 15	92.80	553369.82	964264.41
CP 14	92.47	553390.09	964523.03
CP 13	91.61	553353.05	964895.00
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-		-	
-		-	
-			
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PLAN: SURVEY CONTROL

1"=40' on 24x36" Paper



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- MODIFY REGULATORY TRAFFIC CONTROL DEVICES, AS NEEDED, FOR THE DURATION OF THE DETOUR.
- STANDARD DRAWINGS.
- WITHIN THE PROJECT LIMITS.

- TRIBE REQUEST AT OTHER THAN NORMAL WORKING HOURS.

Ы	Sign location	SIGN	SIZE (in.)
		R11-2	48x30
	Barricade ~ Type 3 L	W1-6	48X24
	Barricade ~ Type 3 R		36x36
Type see "S with t warni	Type 3 Barricade:	W13-1P	24X24
	see "Std. Plan" K-80.20-00 with two flashing	W20-1	36X36
	warning lights.	W20-4	36x36
		G20-2	36X18
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DIMENSIONS SHOWN ARE IN FEE





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- AND CONNECTION DETAILS TO BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. IF CAST IN PLACE
- WITH NO ADDITIONAL COMPENSATION ALLOWED.

