

Prepared for: Kitsap County Public Works

06.18.20

Taylor Road Bridge – Alternate Project Request



365 – 118th Avenue SE, Suite 100 Bellevue, WA 98005 (425) 453-5545

TAYLOR ROAD BRIDGE

ALTERNATIVE MAJOR MAINTENANCE PROJECT REQUEST

Prepared for: Kitsap County Public Works



TranTech Engineering, LLC 365-118th Avenue SE, Suite 100 Bellevue, WA 98005 (425) 453-5545



Table of Contents

1.	Introduction	Pg.	1
2.	Alternate Major Maintenance Project Request	Pg.	1
3.	Conclusion	.Pg.	2

APPENDICES

A. Funding Request Submittal	
B. Funding Approval Letter	
C. As-built Plan Sheets	

D. Prestressed Concrete Girder Estimate

1. INTRODUCTION

In the winter of 2019, WSDOT Local Programs advertised a Call for Bridge Projects to be funded by the Local Bridge Program. On April 23, 2019, Kitsap County submitted a request for a bridge painting project for the Taylor Road Bridge, Structure ID 08702700 (Appendix A). The County was notified that this project had been selected to receive funding in a letter from Local Programs dated December 30, 2019 (Appendix B).

Kitsap County requests approval for a change in the scope of maintenance for the project, but at no additional cost to the bridge program. As detailed below, the proposed scope change will result in an enhanced maintenance project that will return the following additional advantages:

- A more durable solution for the Local Bridge Program expenditure.
- A more environmentally friendly solution.
- The unique opportunity to realize benefits from provisions put in place nearly 20 years ago.

2. ALTERNATE MAJOR MAINTENANCE PROJECT REQUEST

Kitsap County has performed additional project analysis since proposing the paint project and has identified an alternate maintenance project that we believe will provide increased value for the bridge funding. The County's proposal will increase the longevity of the existing bridge while decreasing future costs of maintenance for nearly the same overall project cost. As a result, Kitsap County requests Local Program's consideration and approval to use the paint project funding to remove the existing temporary steel girders and replace them with permanent precast, prestressed concrete girders. This alternative project is possible because of some unique circumstances and provisions put in place during the emergency replacement of an earlier Taylor Road Bridge.

In the winter of 2002, Kitsap County was forced to perform an emergency replacement of the prior Taylor Road Bridge after it failed during a high-water event. The loss of this important bridge cut off the only access to seven homes, a church, a school, and a community support center. This unexpected and expensive undertaking was performed with County Road Funds making project cost and duration major concerns to the County. Obtaining the necessary girders for the replacement bridge was complicated by both those concerns when it was determined that procurement of prestressed concrete girders would come at a premium to shorten the lead time and would still take 6 to 8 weeks for delivery.

A less expensive and quicker solution was found in the use of temporary prefabricated steel flatcar girders which took only about a week to acquire. As a result, the replacement bridge was fitted with removable concrete plinths to accept these temporary girders. The plan was always to replace these temporary girders with permanent precast concrete girders in the future, so temporary girder seats were bolted to the abutment to allow for their easy removal and for the installation of permanent concrete girders (Appendix C).

The plans for replacement of the temporary girders were delayed when disaster struck again only five years later. A disaster in the form of a high-water event resulting from 7.5" of rain in 24 hours, 2" more than the projected 100-year storm event. The bridge design performed well during this event, but the approach roadway was washed away. In response, the County performed a national-award winning emergency repair paid for with both FEMA and County Road Funds. While the federal funds were helpful, most of the damage was outside the roadway right of way and therefore not eligible for FEMA participation. These unexpected costs played a role in delaying any possibility of replacing the temporary girders with the proper permanent ones. In the meantime, the paint applied to the temporary girders by the fabricator was failing badly.

Fast forward twelve years and there is almost no protection left on the temporary steel girders, necessitating the request for the paint project funding mentioned above. As detailed in the funding request submittal, the Taylor Road Bridge crosses a salmon bearing stream with a viewing area for the spawning salmon directly adjacent to the bridge. The extreme environmental sensitivity of the site, along with the complicated girder configuration, adds to the cost of painting these girders in place and caused Kitsap County to wonder how this cost might compare with girder replacement.

An independent estimate revealed that a maintenance project to replace the temporary girders on the existing substructure would come in at a construction cost of approximately \$93K more (Appendix D) than the paint project in the current bid environment. However, by preparing an overall project estimate using industry standard percentages for the project cost extensions, the overall project costs are within approximately \$6.5K of the approved funding level. Kitsap County has budgeted for the potential costs over the approved funding level to ensure successful completion if the proposed project is approved. For nearly the same overall cost the project gains several long-term advantages.

The existing temporary girders have been fabricated with many connected elements that result in nooks and crevices that are currently filled with rust and debris (see photos, Appendix A). It is difficult to adequately clean and paint these areas and any rust left behind may cause paint deterioration, leading to early failure and the need for more frequent future paint projects. The installation of permanent precast concrete girders will result in an environmentally friendly, almost maintenance-free structure that should not burden the Local Bridge program for many years to come. In addition, the construction project itself will be more environmentally friendly, as a girder swap will help limit onsite work at the environmentally sensitive bridge location.

The existing girders have also shown themselves to be sensitive to condition issues and the resulting condition codes used in capacity calculations. If the temporary girders deteriorate to the point of section loss, the bridge will have to be load restricted. Kitsap County also plans to keep the temporary girders in their maintenance yard ready for emergency use if the need should arise. Based on the County's history of storm related bridge and roadway failures, this will provide valuable insurance for the Kitsap County traveling public.

3. CONCLUSION

The alternate major maintenance project proposed by Kitsap County will provide the following advantages over the original paint project for nearly the same overall project cost:

- Permanent prestressed concrete girders.
- Durable girders to ensure long term legal load capacity.
- Minimal maintenance future costs eliminating the need future paint projects and resulting funding requests to the Local Bridge Program.
- More environmentally friendly construction.
- More environmentally friendly lifecycle effect.
- Existing temporary girders can be used as an emergency bridge if necessary.

APPENDIX A | Funding Request Submittal



Federal Highway Bridge Program Project Application

Please send copies of the load ratings summary, accident data, any other pertinent information, and electronic photos (640 x 480 pixels minimum .JPG) with this questionnaire by the due date specified in the cover letter.

Agency Name:	Pick one of the followi	ng:					
Bridge Name:	Replacement Cand	Replacement Candidate					
Bridge Number:	Rehabilitation Can	didate					
Contact Person:	Scour Mitigation	Scour Mitigation					
Phone: () -	Seismic Retrofit						
Sufficiency Rating:	Painting	Bundled					
Structure ID:	Deck Repair	Project					

Brief Project Description (including bridge replacement type)

Proposed Length: Width (Curb to Curb): Current Year:

Rehabilitation/Replacement/Seismic/Paint/Scour Projects

PE Costs (approximately 25% of total)

(Soils, Environmental, Design Documents, Plans Preparation, etc.)

Right of Way Costs

(Purchases, Relocation and Construction Easement)

Construction Costs

(Environmental mitigation, approach costs (15%), structure costs, etc.)

Construction Engineering (18%)

Contingency (15%)

Mobilization (10%)

Inflation Factor (5% per year, based on projected Ad date below)

Total Rehabilitation/Replacement/Preventative Maintenance Project Costs:*

If a Rehabilitation, what would be the Replacement cost for that same structure (including PE, Right of Way, and Construction)?

Project Milestones	Scheduled	1	Scheduled
Project Added to Local Agency TIP	M/Y /	Right of Way Start	M/Y /
Project Added to Regional TIP	M/Y /	Right of Way Complete	M/Y /
Project Added to STIP	M/Y /	Geometric/30% Design Complete	M/Y /
Project Definition Begin PE	M/Y /	General Plan/60% Design Complete	M/Y /
NEPA Kick Off	M/Y /	Advertisement	M/Y /
Environmental Docs Approved	M/Y /	Contract Awarded	M/Y /
Provide comments belo	W	Open to Traffic	M/Y /

Comments

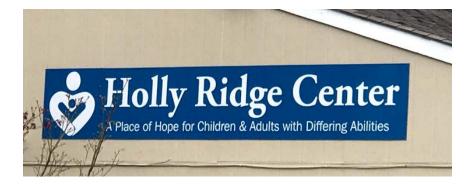


Kitsap County Taylor Road Bridge

The Taylor Road Bridge provides the only access to:

- Seven (7) residents
- A church (Seventh Day Adventist Church)
- A school (Kitsap Adventist Christian School)
- Holly Ridge Center (Specialized programs for children and adults with differing abilities)





BRIDGE INSPECTION REPORT Printed On: 4/22/2019

Release Date: 4/17/2019

Agency: Kitsap County

Program Mgr: Roman G. Peralta

Br. No. 25

SID 08702700

CD Guid: fc2a5425-6003-446d-a78b-8343e87970d3

Br. Name TAYLOR ROAD BRIDGE

Mile Post

Carrying NW TAYLOR ROAD Intersecting CHICO CREEK

Route On 19000 **Route Under**

Mile Post 0.29

Inspector's Signature JMH Cert # G1605 Cert Exp Date 5/18/2021 Co-Inspector's Signature PAD Inspections Performed: 6 Structural Eval (1657) 39 Operating Tons (1552) No Utilities 2 (2675)Hrs Date **Rep Type** Freq 5 Deck Geometry (1658) 1.09 Op RF (1553) 1 Bridge Rails (1684)24 1.5 3/4/2019 Routine 9 Underclearance (1659) 24 Inventory Tons (1555) 1 Transition (1685) Fract Crit 6 Alignment (1661)0.65 Inv RF (1556) 1 Guardrails (1686)UW 6 Deck Overall (1663)5 Operating Level (1660) 0 Terminals (1687)Special 6 Superstructure (1671)А Open/Closed (1293)2.00 Asphalt Depth (2610) Interim 7 Design Curb Ht (2611) Substructure (1676)8 Waterway (1662) 3.80 UWI 9 Culvert (1678)8 Scour (1680)36.2 Bridge Rail Ht (2612) Damage Soundings Flag (2693) 7 Chan/Protection (1677) 2002 Year Built (1332)PRM Safety (2688) 0 Year Rebuilt Ν Pier/Abut/Prot (1679) Revise Rating (1336) SEC Safety 6 Drain Cond (7664)Photos Flag (2691)Υ Subj to NBIS (2614)Condition 1 Drain Status (7665)Measure Clrnc (2694)Alpha Span Type: Short Span N Deck Scaling (7666) 9 Sdwk Cond (7673)In Depth 0 Scaling Pct (7667) 9 Paint Cond (7674)Geometric Approach Cond (7681) 0 Deck Rutting (7669)6 (7682) 0 Exposed Rebar (7670) 9 Retaining Wall Sufficiency Rating 74.48 8 Curb Cond (7672) 9 Pier Prot (7683)Low Risk

	BMS Elements									
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4			
27	Steel Orthotropic Deck	2,137	SF	2,137	0	0	0			
92	Steel Welded Girder	2,460	LF	2,460	0	0	0			
215	Concrete Abutment	73	LF	73	0	0	0			
310	Elastomeric Bearing	3	EA	3	0	0	0			
313	Fixed Bearing	3	EA	3	0	0	0			
322	Bridge Impact	2	EA	1	0	1	0			
330	Metal Bridge Railing	164	LF	164	0	0	0			
402	Open Concrete Joint	53	LF	53	0	0	0			
800	Asphaltic Concrete (AC) Overlay	2,173	SF	2,149	24	0	0			
901	Red Lead Alkyd Paint System	19,000	SF	0	0	3,800	15,200			

Notes

3 Superstructure is noted as a Railcar Retrofit in the as-built plans. Consists of three rail car girders retrofit to a T-section configuration. See attached plans.

Status: Released

BRIDGE INSPECTION REPORT Printed On: 4/22/2019

Agency: Kitsap County

Program Mgr: Roman G. Peralta

CD Guid: fc2a5425-6003-446d-a78b-8343e87970d3

Release Date: 4/17/2019

Br. Name TAYLOR ROAD BRIDGE

Route On 19000 **Route Under**

Mile Post 0.29

Mile Post

Carrying	NW TAYLOR ROAD
Intersecting	CHICO CREEK

Notes (Continued)

Could not visually inspect deck due 2" overlay. Surface rust [minor] is evident at deck soffet with some surface flaking starting to 27 appear throughout. There is a pothole and asphalt deterioration in the westbound lane but no indication of causes noted in the Soffet.

The deck was previously coded as Corrugated or Other Steel System. The as-built plans show steel plate deck stiffened with longitudinal steel stringers. No previous repairs notes and none currently called for.

- 92 3 - steel welded girder system, 1 girder per each railroad car. Surface rust showing throughout superstructure and is accelerating due to overall paint failure. No repairs, pitting, or cracking evident, no measurable section loss noted. The deterioration is limited to the coating system at this time therefore the entire quantity for girders has been upgraded to CS 1.
- 215 Good condition - no cracking found. West pile cap was repaired after the 12-3-2007 flooding that washed out under the cap exposing the piles. Bottom side of west cap was formed and 32 c.y. of commercial concrete was poured with additional rebar added. See file for pictures of repair. Rock armor beginning to slough East side (minor) under bridge.
- Good condition no squashing or rotation movement found. 310
- 313 Good condition - no vertical or horizontal movement found. Some hairline cracking in the grout pads at east pile cap is evident.
- 322 Settlement starting to show at west bridge joint [less than 1/2"].
- 330 Good condition - painted steel, no traffic damage.
- 402 Fair condition. West joint needs to be re-sealed.
- Fair condition no wheel rutting. Pothole in Westbound lane needs to be addressed. Pothole upgraded to CS 2 for asphalt patch. 800
- Girder steel was previously noted as weathering steel because of the lack of paint. There appears to be a paint system that is failing 901 overall. The original plans required a paint system of Red Oxide shop primer and a Alkyd Enamel topcoat. The paint is either missing or failing and peeling over the majority of the girders and steel deck soffit. Most paint is missing altogether with a small percentage that does exists is in distress.
- 1671 SUPERSTRUCTURE CONDITION: The Superstructure Condition code was raised from 5 to 6 based on Table 2-C-46 of the WSBIM. There is no measureable section loss but there is minor deterioration due to protective coating failure.
- 1680 After the 12-3-2007 flood event the west pile cap was reinforced with additional concrete and upstream channel was reconstructed with a designed plan from KCM Tetra Tech. Need to moniotor stream flows during high flow events.

	Repairs											
Repair No	Pr	R	Repair Descriptions	Noted	Maint	Verified						
526	3	J	800 - Reseal West bridge Joint.	3/4/2015								
527	2	J	Repair pothole in Westbound lane.	3/7/2017								
528	3	J	Clean drain at NE corner.	3/7/2017								

	Inspections Performed and Resources Required												
Report Type	<u>Date</u>	Freq	<u>Hrs</u>	<u>Insp CertNo Coins</u>		Coinsp	Note						
Routine	3/4/2019	24	1.5	JMH	G1605	PAD	Routine inspection 2019.						
Feature	8/1/2018		0.5	GDG	G0014		A field inspection was made to check the BMS Condition State quantities for the steel girders because of the effect on an ongoing load rating update.						
Informational	3/24/2019			GDG	G0014		Updated Feature Intersected.						

Br. No. 25 **SID** 08702700



		100	1			2	009						:	2132				1019	12	286 102	1 2	2023					1156			2181	2183 2	185	1188		11	96		
Bridge ID	Structure ID				Bridge Number								Bridge N	ame				Owner		Cust		City				Locati	on			Section	Twnshp	Range	Latitude		Longi	tude		
	0	8702	700			2	25		TA	YLOR F	ROAD E	BRIDGE					02	0)2 18	3 0	0000 0	0.29W NORTHLAKE WAY NW				AY NW			08 24 01		01E 4	1E 47° 35' 09.70")" 122° 42' 59.20"				
l						1232						1256							1274 7281 72					276 1	285 12	288 128	9 1293 1	292 2295	7296		Printe		Sufficiency F			Rating:		
Facilities					Fea	ature Int	ersected	ł				Facilities Carried								F	Region	Leg1	Lea2	FIPS	Toll	Temp Para	OPC	NRHP LRHP			Date		4.48	} Item 2710 SR Item 2711 SD/FO				
	WILD	DCAT	CRE	EK							N	W TAY	LOR R	OAD							OL	35	0	22118	3	N	A	4				Low Risk			sk			
	CHIC	CO CI	REEK	(
	13	332		1336		1340		2346		1348	1352		1356		1360		1364		367	1310		1370		1374		1378	1379	1382	1	383	1386	1387	1390	1394	1291 <	1397		
Layout		ear uilt		Year Rebuilt	t	Bridge Length		BIS Ler		aximum an Length	Lanes On		b to Curl ck Width		Out to Deck W		Sidewa Left		ewalk light	Skew	Flared	Min Ve Over De		Min Ve Unde		Vert Code	Min Lat Under Rig	ht Code		n Lat ler Left	Nav Ctl Code	Nav Vert Clear	Nav Horiz Clear	Nav Vert Lift Clear	Median	Appr Rdwy		
	20	002		0		82				79	2		26.5		27.3	3	0.0	(0.0	0	N	99' 99	"	00' 00)"	N	0.0	N	0).0	0	0	0		0	25		
			1434					1451	1453	14	57	1463		1467		1477	14	469	2410		<u> </u>			- r - r		1490 Lane	1354		rontal	149: Horizon			1413 2441					
Crossing	On On Under		Level Hwy Class		Route Number		Milepost		ADT Truck %		Year o ADT	Future	e ADT	DT Future Lii ADT Year		Linear Referencing L System		LRS Sub				Fed Aid Route			FLH TRAH	Funct. Z Class Z		Use d Direction		Horizontal Clearance Route Dir		Clearan Reverse	ce Clear	ance P	Limitl			
	1	4	1		19000)	0.29		375	6	2017	41	13	2037							Y	0000	C) 0	0 0	09) N	2	0	29'	03"			99	25			
	4522		522	1535	-	1536	1538		1541	1544	1545	1546	154	7	1548	1549	155		51	1552		1553	1554			4550	4505 45			590					7557			
Design	Main Main App Span Span Spa		Appi Spar Mater	r A n S	ppr pan esign	Numbe Main Spans	r N	umber Appr Spans	Service On	Service		Wear	ing Mor	nbrane	Deck Protect	ck Design		Oper Ope Rating Rati Method Tor		Op Ra	per ating F	Inv lating lethoo	Inv Ratin	g R	1556 Inv Rating Factor	1585 15 Border State Cd			order Structure ID				Design					
Design	3		07	0		00	1		0	1	5	5	6		0	0	5	6		39		.09	6	24		0.65	<u>a</u>											
	2587	2588	3 25	89	2590	2591	2592	2593	2594	2597	2598	2595 2	2596			7832 783	3 7834	7835 7	836	7837 783	88 783	39 7840 7	7841	1844 184	6	1847	2853	286	0	1867		1873	2870	1861	18	79 2883		
Load Rating	Type 3	1ype 3S2	μ ω	Туре	NRL	SHV 4	5 5	6 0HS	SHV 7	EV 2	EV 3	OL 1	DL 2		rway/ Imp	Pln Intr Water Type	Flood Flood	Scour Hist	Strmbd	Obstr Substr Stablty	Stablty Wtrwv	Strmbd Anabrn Strmbd	Piers In Watr	Meth Type Work	Str Le	ru Imp ength	Roadwa Width	y Cos Per S	st SF St	ruct Co	ost Rd	lwy Cost	Engr Cost	Total Cos	t Estr Yea	Prop Imp Cost Calc		
	1.52	1.2	5 1.2	23 (0.99	1.39	1.24	1.14	1.06	1.30	0.88	1.00 0	0.66			F A	N N	н	3	3 N	I D) N	0	38 1		82	27	400)	443		89	354	886	201			
	1	2920			199 Det			646	26 Cort		2654				Increati	on.	-				_	0		S. I														
	Rout	nspecti tine	on		Dat 3/4/2			ector MH	Cert G16		Co-Inspec PAD			Inte	Inspecti rim		L	Date		Inspecto	r	Cert No		Co-Inspect	or		Co	Inspection	on	Date		In	spector	Cert No	Co-Ins	pector		
Inspection Report	Fract	ture (Critica	al									In Depth												Sh	Short Span												
Types	<u> </u>		eature	e											nage						\square		\square				Ge	Geometric										
	Unde						<u> </u>					_			V Safe	-											Inf			3/2	24/201	9 (GDG	G0014				
	UW Interim										SEC Safety												In	/entory														

BRIDGE INSPECTION REPORT

CD Guid: 2831d7ab-b00c-44c8-8da7-9a73ac1020cd

SID 08702700

Printed On: 4/3/2019

Release Date:

Program Mgr: Roman G. Peralta

Br. No. 25

Carrying NW TAYLOR ROAD Intersecting CHICO CREEK

Deck View

Elevation View Funding Photo Type:

Orientation:

Date: Repairs: Elevation View

(none)

SE 3/24/2019

Funding	
Photo Type:	(none)
Orientation:	
Date:	3/24/2019
Repairs:	
Deck View	



Route On 1

19000

Mile Post 0.29 Mile Post



BRIDGE INSPECTION REPORT

Status: Work

Carrying

CD Guid: 2831d7ab-b00c-44c8-8da7-9a73ac1020cd

NW TAYLOR ROAD

Printed On: 4/3/2019

Release Date:

Agency: Kitsap County

Program Mgr: Roman G. Peralta

Br. No. 25 SI

SID 08702700 Br. Nan

Br. Name TAYLOR ROAD BRIDGE Route On 1

Route On 19000 Route Under Mile Post 0.29 Mile Post

Intersecting	CHICO CREEK
Paint Failure on Girder/Deck Soffit Funding	
Photo Type:	(none)
Orientation:	E
Date:	3/24/2019
Repairs:	

Paint Failure on Girder/Deck Soffit





Superstructure View

w							
Funding							
Photo Type:	(none)						
Orientation:	UP						
Date:	3/24/2019						
Repairs:							
Superstructure View							

BRIDGE INSPECTION REPORT

Agency: Kitsap County

CD Guid: 2831d7ab-b00c-44c8-8da7-9a73ac1020cd

Printed On: 4/3/2019

Program Mgr: Roman G. Peralta

Br. No. 25

Status: Work

SID 08702700

Br. Name TAYLOR ROAD BRIDGE

Release Date:

Route On 19000 Route Under Mile Post 0.29 Mile Post



Carrying NW TAYLOR ROAD

Intersecting CHICO CREEK
Close Up Paint
Failure with Early
Stage Section
Loss
Funding
Photo Type: (none)
Orientation:
Date: 3/24/2019
Repairs:
Close Up Paint Failure with Early Stage
Section Loss

Close Up Paint Failure

ailure						
	Funding					
	Photo Type:	(none)				
	Orientation:	UP				
	Date:	3/24/2019				
	Repairs:					
	Close Up Paint	Failure				



BRIDGE RATING SUMMARY

Bridge Name: Bridge Number: SID Number: Span Types: Bridge Length: Design Load: Rated By: Checked By: Date:

 TAYLOR ROAD BRIDGE

 25

 08702700

 1 Span Built-up Steel Girder

 82'-0"

 HS20

 VP

 KM

 8/21/2018



Inspection Report Date	8/1/2018	Superstructure Condition	5
Overlay Thickness	2.0" ACP	Substructure Condition	7
Rating Method	LFR by rating factor	Deck Condition	6

Truck	RF (INV)	RF (OPR)	Controlling Point
AASHTO-1	0.91	1.52	Shear at Girder Support
AASHTO-2	0.75	1.25	Shear at Girder Support
AASHTO-3	0.74	1.23	Shear at Girder Support
NRL	0.59	0.99	Shear at Girder Support
EV2	0.78	1.30	Shear at Girder Support
EV3	0.53	0.88	Shear at Girder Support
OL-1	0.60	1.00	Shear at Girder Support
OL-2	0.40	0.66	Shear at Girder Support
NBI Rating	RF	Tons (US)	Controlling Point
Inventory (HS-20)	0.65	23.51	Shear at Girder Support
Operating (HS-20)	1.09	39.24	Shear at Girder Support
SHV Rating	RF	Tons (US)	Controlling Point
SU4 (GVW = 54K)	1.39	37.53	Shear at Girder Support
SU5 (GVW = 62K)	1.24	38.44	Shear at Girder Support
SU6 (GVW = 69.5K)	1.14	39.62	Shear at Girder Support
SU7 (GVW = 77.5K)	1.06	41.08	Shear at Girder Support
SU7 (GVW = 77.5K)	1.06	41.08	Shear at Girder Support

<u>Remarks:</u> Bridge does not require posting.



TAYLOR BRIDGE PAINTING COST ESTIMATE

STD. ITEM	ITEM DESCRIPTION	MEAS. UNIT	QUANTITY	UNIT PRICE	COS	Т
4468	CLEANING AND PAINTING BRIDGE	L.S.	1	379,988	\$	379,988
4469	CONTAINMENT OF ABRASIVES	L.S.	1	94,997	\$	94,997
4470	TESTING AND DISPOSAL OF CONTAINMENT WASTE	EST.	1	20,000	\$	20,000
4487	CLEANING, SEALING AND CAULKING PACK RUST	L.F.	1000	15	\$	15,000
6490	EROSION WATER POLLUTION CONTROL	EST.	1	10,000	\$	10,000
6630	HIGH VISIBILITY FENCE	L.F.	1000	2	\$	2,000
7480	ROADSIDE CLEANUP	EST.	1	10,000	\$	10,000
7500	FIELD OFFICE BUILDING	L.S.	1	10,000	\$	10,000
7570	HEALTH AND SAFETY PLAN	L.S.	1	5,000	\$	5,000
7736	SPCC PLAN	L.S.	1	5,000	\$	5,000
	WILDLIFE MANAGEMENT	L.S.	1	5,000	\$	5,000
	SUBTOTAL				\$	556,985
	MOBILIZATION	L.S.	1	\$ 55,699	\$	55,699
	TOTAL				\$	556,985

ASSUMPTIONS:

AREA OF PAINTED STEEL ASSUMED IS 19,000 SF NO FUTURE COST ESCALATION DUE TO INFLATION IS ASSUMED



APPENDIX B | Funding Approval Letter



December 30, 2019

Mr. Andrew B. Nelson Public Works Director Kitsap County 614 Division Street, MS 26 Port Orchard, Washington 98366
 Transportation Building

 310 Maple Park Avenue S.E.

 P.O. Box 47300

 Olympia, WA 98504-7300

 360-705-7000

 TTY: 1-800-833-6388

 www.wsdot.wa.gov



KITSAP COUNTY PUBLIC WORKS ADMINISTRATION

JAN 07 2020

Taylor Road Nelson Bridge FFY 2019 Local Bridge Program Selections Federal Funding

Dear Mr. Nelson:

WSDOT is pleased to advise you that the above mentioned bridge project was recently selected to receive funding through the Local Bridge Program. The federal funding is limited to the amount shown below:

Taylor Road Nelson Bridge Scope: Paint

\$1,001,440

NOTE: This project requires 13.5 percent local match. If construction is authorized by December 2022, the project is eligible for 100 percent federal funding for eligible costs. Preventative maintenance projects are limited to a maximum \$3 million.

In order to meet state and federal requirements, the following are required:

- Project expenditures incurred before receiving notice from Local Programs of federal fund authorization are not eligible for reimbursement.
- Please refer to the Local Programs web page for detailed information, including: (<u>http://www.wsdot.wa.gov/localprograms/</u>)
 - ✓ Local Agency Guidelines (LAG) manual for the requirements regarding programming, authorization, reimbursement, etc.;
 - ✓ Projects utilizing federal funds must be included in your current Transportation Improvement Program (TIP) as a complete programmed project. Once your TIP amendment is approved, WSDOT will amend the Statewide Transportation Improvement Program (STIP);
 - ✓ Funding and billing forms;
 - ✓ Quarterly Project Reporting is required to be completed by the end of March, June, September, and December each year. To access the database you will need an account name and password. Your account name is **Kitsap Co.** and your password is **KitCo252**. The password is case sensitive.
- If the project is not actively pursued, or becomes inactive (23 CFR 630), the project is at risk of being cancelled, funds repaid and reprogrammed.
- FHWA requires that all projects are ADA compliant upon completion or the federal funds must be repaid.

Andrew B. Nelson Public Works Director Kitsap County Taylor Road Nelson Bridge December 30, 2019

As a reminder, Local Programs requires all agencies to submit monthly progress billings to ensure timely reimbursement of eligible federal expenditures. Also, it is critical that your agency adhere to the project schedule previously provided to ensure the delivery of the local federal program.

For assistance please Bryan Dias, your Region Local Programs Engineer, at 360.357.2631.

Sincerely,

Kathleen B. Davis Director Local Programs

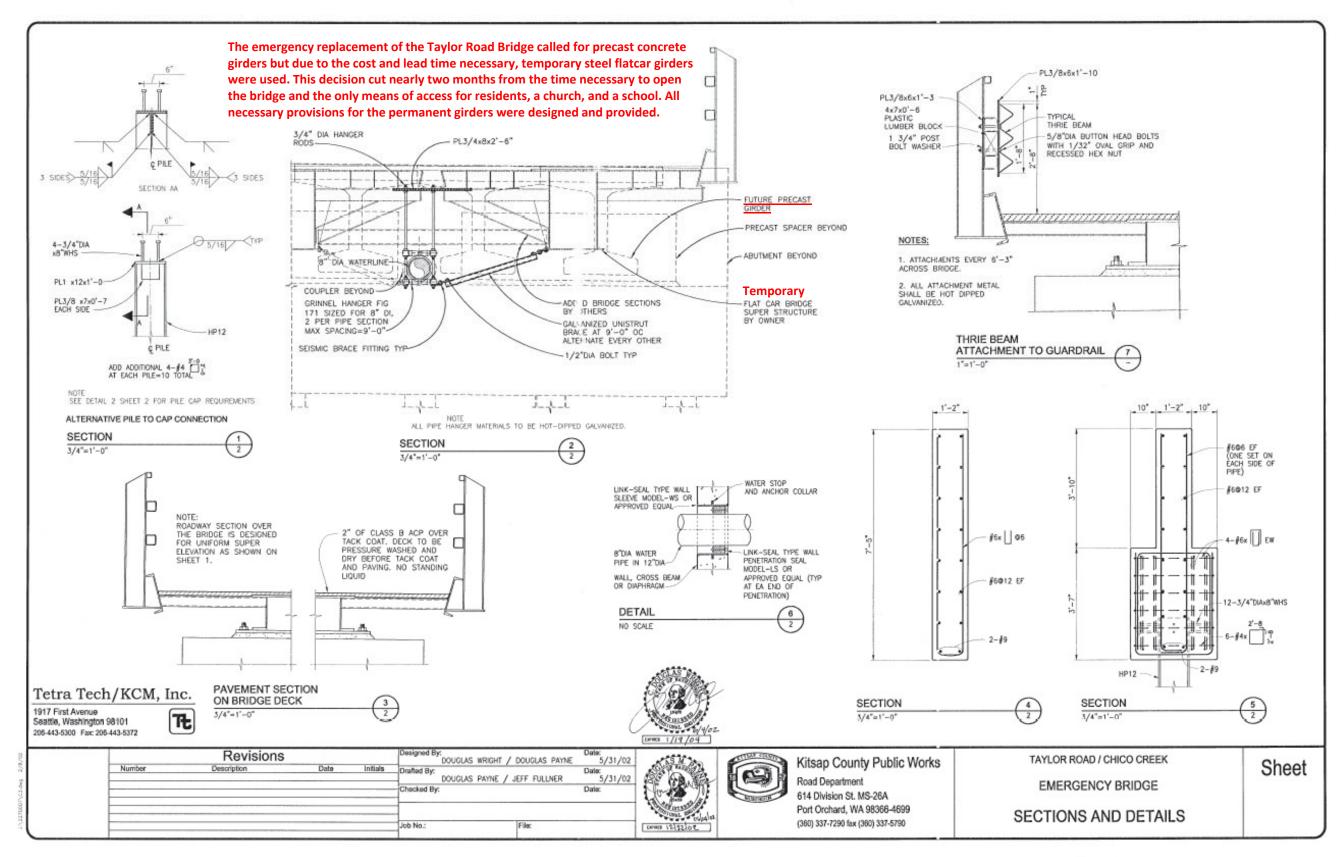
KBD:st:sas

cc: Kelly McGourty, Transportation Director, PSRC Bryan Dias, Olympic Region Local Programs Engineer, MS 47440



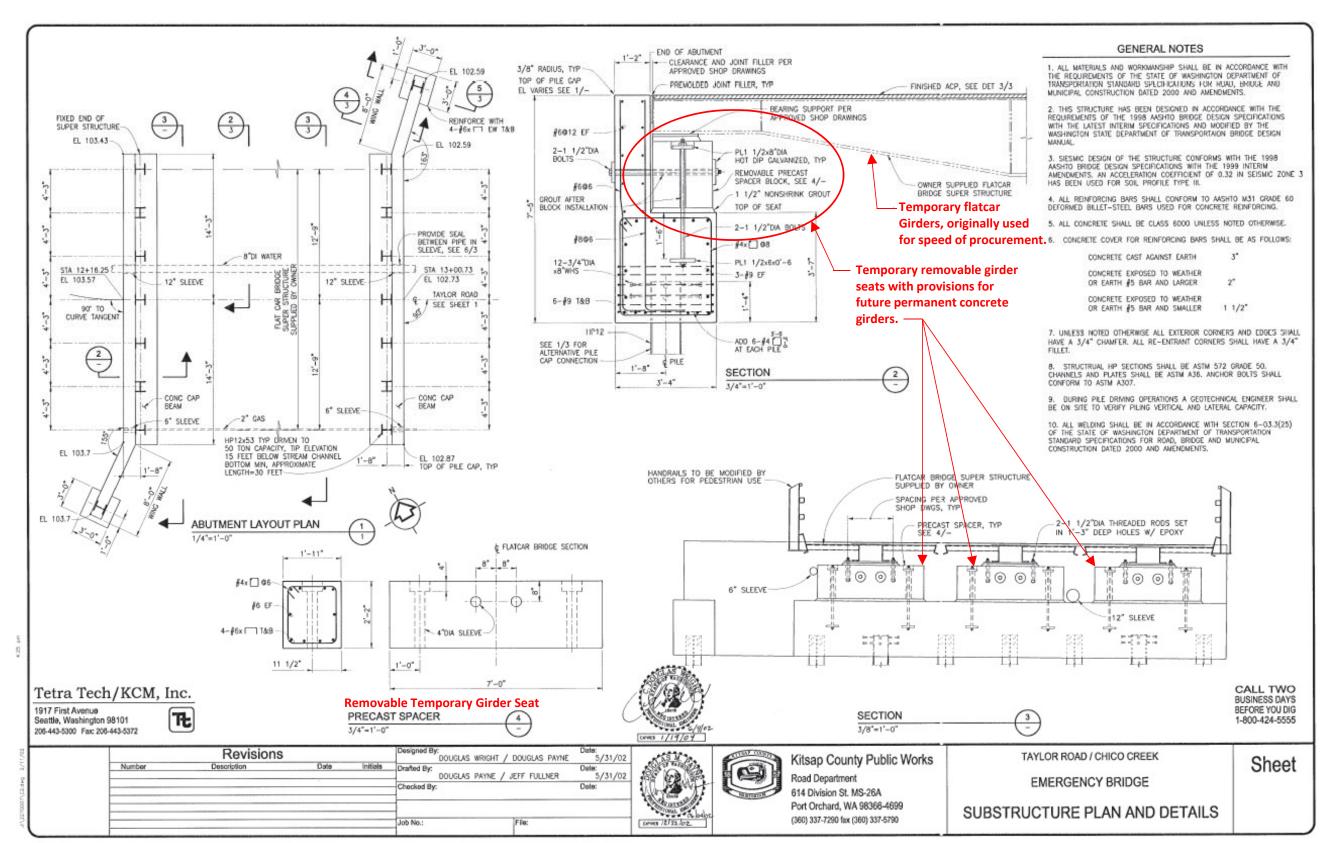
APPENDIX C | As-built Plan Sheets





9-02-1

9-02-1



APPENDIX D | PS Concrete Girder Estimate



TAYLOR DECK BULB-T SUPERSTRUCTURE COST ESTIMATE

STD. ITEM	ITEM DESCRIPTION	MEAS. UNIT	QUANTITY	UNIT PRICE	COS	т
	DEMO SUPERSTRUCTURE	LS	1	126,280	\$	126,280
	DECK BULB-T GIRDERS	LF	492	500	\$	246,000
	HMA OVERLAY	TON	100	350	\$	35,000
	CONCRETE TRAFFIC BARRIERS	LF	170	200	\$	34,000
	TRAFFIC CONTROL	LS	1	25,000	\$	25,000
6490	EROSION WATER POLLUTION CONTROL	EST.	1	5,000	\$	5,000
6630	HIGH VISIBILITY FENCE	L.F.	1000	4	\$	4,000
6806	PAINT LINE	L.F.	1000	2	\$	2,000
6913	PORTABLE CHANGEABLE MESSAGE SIGN	L.S.	2000	8	\$	16,000
6971	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.	1	15,000	\$	15,000
7003	TYPE B PROGRESS SCHEDULE	L.S.	1	5,000	\$	5,000
7400	TRAINING	HR	500	20	\$	10,000
7480	ROADSIDE CLEANUP	EST.	1	10,000	\$	10,000
7500	FIELD OFFICE BUILDING	L.S.	1	25,000	\$	25,000
7569	NO TRASSPASSING SIGN	EA	2	1,000	\$	2,000
7570	HEALTH AND SAFETY PLAN	L.S.	1	5,000	\$	5,000
7736	SPCC PLAN	L.S.	1	5,000	\$	5,000
	WILDLIFE MANAGEMENT	L.S.	1	5,000	\$	5,000
4306	ELASTOMERIC BEARING PAD - SUPERSTR.	EACH	14	3,000	\$	42,000
4322	CONC. CLASS 4000 FOR BRIDGE (GIRDER STOPS AND END DIAPHRAGMS)	C.Y.	15.0	2,200	\$	33,000
	SUBTOTAL				\$	650,280
	MOBILIZATION	LS	1	65,028	\$	65,028
	TOTAL				\$	715,308





