

KITTITAS COUNTY COMMUNITY DEVELOPMENT SERVICES

411 N. Ruby St., Suite 2, Ellensburg, WA 98926 CDS@CO.KITTITAS.WA.US Office (509) 962-7506 Fax (509) 962-7682

"Building Partnerships - Building Communities"

SHORELINE EXEMPTION PERMITTING

(For projects located within 200 feet of a body of water and/or associated floodway and wetlands under the jurisdiction of the Shoreline Master Program)

REQUIRED INFORMATION / ATTACHMENTS

- A scaled site plan is required showing location of all structures, driveways, well, septic, fences, etc. and proposed uses and distances from property lines, river, and Horizontal distance from OHWM. To show the Horizontal distance a profile view from the OHWM to the edge of structure/activity shall also be shown.
- Include JARPA or HPA forms *if required* for your project by a state or federal agency.
- SEPA Checklist, if not exempt per WAC 197-11-800.

SEPA Exempt per WAC 197-11-800(3), Repair, Remodeling, or Maintenance Activities

Please note a Shoreline Variance or Shoreline Conditional Use Permit may also be required. See Kittitas County Shoreline Master Program

APPLICATION FEES:

\$830.00 Fees due for this application when SEPA is <u>not</u> required (One check made payable to KCCDS)

\$1500.00 Fees due for this application when SEPA is required (One check made payable to KCCDS)

FOR STAFF USE ONLY

Application Received By (CDS Staff Signature):

2 22/206

RECEIVE
FEB 2 2 2018

Kittitas County CDS
DATE STAMP IN BOX

General Application Information

1.		ress and day phone of land owner(s) of record: ture(s) required on application form.	
	Name:	Lucas Huck	
	Mailing Address:	411 North Ruby Street, Suite 1	
	City/State/ZIP:	Ellensburg, WA	
	Day Time Phone:	509-962-7523	
	Email Address:	mark.cook@co.kittitas.wa.us	
2.		ress and day phone of authorized agent, if different from land not is indicated, then the authorized agent's signature is required.	
	Agent Name:	Craig Broadhead	
	Mailing Address:	32 North 3rd Street	
	City/State/ZIP:	Yakima, WA	
	Day Time Phone:	509-312-0375	
	Email Address:	craig.broadhead@jacobs.com	
3.		ress and day phone of other contact person d owner or authorized agent.	
	Name:	N/A	
	Mailing Address:		
	City/State/ZIP:		
	Day Time Phone:		
	Email Address:		
4.	Street address of pr	roperty:	
	Address:	Manastash Road	
	City/State/ZIP:	Ellensburg, WA 989446	
5.	Legal description o	f property: (attach additional sheets as necessary)	
	T17NR16ES13; 4	16.959821 N, -120.785677 W	
6.	Tax parcel number	(s): County right of way; adjacent to 449136, 584933,	464933, and 574933.
7.	Property size: N/	4	(acres)

Project Description

1. Briefly summarize the purpose of the project:

The project will replace the Manastash Road Bridge over South Fork Manastash Creek. The bridge is rated as structurally deficient, and is currently load rated. The project will include the complete removal of the existing 30-foot span and abutments and the construction of a new structure on the same alignment.

2. What is the primary use of the project (e.g. Residential, Commercial, Public, Recreation)?

County maintained levee for flood hazard protection.

- 3. What is the specific use of the project (e.g. single family home, subdivision, boat launch, restoration project)?

 The project replaces the bridge on Manastash Road over Manastash Creek.
- 4. Fair Market Value of the project, including materials, labor, machine rentals, etc. \$2.4 million
- 5. Anticipated start and end dates of project construction: Start June 15, 2018 End November 30, 2018

Authorization

Application is hereby made for permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities. I hereby grant to the agencies to which this application is made, the right to enter the above-described location to inspect the proposed and or completed work.

All correspondence and notices will be transmitted to the Land Owner of Record and copies sent to the authorized agent or contact person, as applicable.

Signature of Authorized Agent:		Date:	
(REQUIRED if indicated on application) X	_	2/15/18	
Signature of Land Owner of Record	Date:		
(Required for application submittal):		02-21-2018	

FOR STAFF USE ONLY

1.	Provide section, town 4 Section SW	<u> </u>	of project location: Township 17	N.	Range 15	_ E., W.M.	
2.	Latitude and longitu 46.959821 N, -120.785677 W	de coordinates of	project location (e.g	g. 47.03		22.89142 W lo degrees – NA	0 /
3.	Type of Ownership:	(check all that a	pply)				
	☐ Private	☐ Federal	☐ State		■ Lo	cal	☐ Tribal
4.	Land Use Information	on:					
Zo	ning: Forest and Range	-	Comp Plan L	and Us	e Designation:	/ <u></u>	
5.	Shoreline Designatio	n: (check all that	t apply)				
	Urban Conserv	ancy \square S	Shoreline Residential		■ Ru	ral Conservanc	;y
		l Natural	I	□ Aqu	atic		
6.	Requested Shoreline WAC 173-27-040(2)(b), Normal Mainten	• •	VAC 173.27.040:				
			Vegetation				
7.	Will the project resu	lt in clearing of tr	ee or shrub canopy?	?			
		l Yes	□ No				
If '	Yes', how much clear	ing will occur?_3,9	00 square feet			(square fee	et and acres)
8.	Will the project resul	lt in re-vegetation	of tree or shrub car	nopy?			
	^	Yes	□ No				
If '	Yes', how much re-ve	getation will occu	r? 3,900 square feet			(square fe	et and acres)
			Wetlands				
9.	Will the project resul	lt in wetland impa	acts?				
		Yes	■ No				
If '	Yes', how much wetla	nd will be perma	nently impacted?			(square fe	eet and acres)
10.	Will the project resul	t in wetland resto	oration?				
		Yes	No				
If '	Yes', how much wetla	nd will be restore	ed?		(square fe	et and acres)	

Impervious Surfaces

11. Will the project	result in creation of over 500 s	quare feet of impervious surfaces?	?
	□ Yes	■ No	
If 'Yes', how much i	impervious surface will be crea	ted?	(square feet and acres)
12. Will the project	result in removal of imperviou	s surfaces?	
	☐ Yes	■ No	
If 'Yes', how much i	mpervious surface will be rem	oved?	(square feet and acres)
	Shoreline S	tabilization	
13. Will the project in (revetment/bulk)		shoreline stabilization structures	
	■ Yes	□ No	
If 'Yes', what is the	net linear feet of stabilization s	tructures that will be created? 80	linear feet
14. Will the project a (revetment/bulk)		shoreline stabilization structures	
	☐ Yes	■ No	
If 'Yes', what is the	net linear feet of stabilization s	tructures that will be removed?_	
	Levees	/Dikes	
15. Will the project i	result in creation, removal, or	relocation (setting back) of levees/	dikes?
	☐ Yes	■ No	
If 'Yes', what is the r	net linear feet of levees/dikes th	at will be created?	
If 'Yes', what is the r	net linear feet of levees/dikes th	at will be permanently removed?	
If 'Yes', what is the l	inear feet of levees/dikes that v	vill be reconstructed at a location	further from the
	<u>Floodplain I</u>	<u>levelopment</u>	
16. Will the project r	result in development within th	e floodplain? (check one)	
	☐ Yes	■ No	
		be constructed in the floodplain? C 14.08; please contact Kittitas Coul	nty Public Works
17. Will the project r	esult in removal of existing str	uctures within the floodplain? (cl	neck one)
	Yes	□ No	
If 'Yes', what is the n	et square footage of structures	to be removed from the floodplai	_{n?} 720 sf

Overwater Structures

18. Will the project	result in const	ruction of an overwater dock, pi	er, or float? (check one)
	☐ Yes	■ No	
If 'Yes', how many o	verwater stru	ctures will be constructed?	
What is the net squa	re footage of w	vater-shading surfaces that will	be created?
19. Will the project	result in remov	val of an overwater dock, pier, o	r float? (check one)
	☐ Yes	■ No	
If 'Yes', how many o	verwater stru	ctures will be removed?	
What is the net squa	re footage of w	vater-shading surfaces that will l	be removed?
		Summary/Conclusion	
		stent with the policies of RCW 90 itional sheets if necessary)	0.58.020 and the Kittitas County Shoreline
Please explain:	Yes	□ No	
Structural rebar. In Manastash Creek abutment. Scour verthe deteriorated co	n addition to on the continue, on ditions and the continue, on ditions and the conditions and the conditions and the conditions and the conditions are conditions.	deterioration to the bridge gir bank erosion and is undermi as the current thalweg is dire	ing in several locations, exposing rders, the lateral movement of ining the northeastern bridge ectly against this abutment. Due to explacement of the bridge is ad.
		ntion needed to verify the project neets and relevant reports as nec	t's impacts to shoreline ecological eessary)
<u> </u>			



WASHINGTON STATE

Joint Aquatic Resources Permit Application (JARPA) Form^{1,2} [help]

USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.

Date re	ceived:	
Agency	reference #:	
Гах Раз	rcel #(s):	

Part 1-Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabroom	k Lane Development) [help	elp
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of Engineer Seattle District

Manastash Road Bridge Replacement Project

Part 2-Applicant

The person and/or organization responsible for the project. [help]

			<u> </u>	
2a. Name (Last, First, Mi	ddle)			
Huck, Lucas – Kittitas	County Engineer			
2b. Organization (If app	2b. Organization (If applicable)			
Kittitas County Public Works				
2c. Mailing Address (Street or PO Box)				
411 N. Ruby St. Ste. 1				
2d. City, State, Zip				
Ellensburg, WA 98926				
2e. Phone (1)	2f. Phone (2)	2g. Fax	2h. E-mail	
509-962-7523 Lucas.huck@co.kittitas.wa.us				

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.

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¹Additional forms may be required for the following permits:

If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.

If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PermitGuidebook/EndangeredSpecies.aspx.

Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county
government to make sure they accept the JARPA.

²To access an online JARPA form with [help] screens, go to http://www.epermitting.wa.gov/site/alias resourcecenter/jarpa jarpa form/9984/jarpa form.aspx.

Part 3-Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b of this application.) [help]

3a. Name (Last, First, M	iddle)		
Broadhead, Craig D.			
3b. Organization (If app	olicable)		
Jacobs Engineering G	roup Inc.		
3c. Mailing Address (S	Street or PO Box)		
32 N. 3 rd St. Ste. 304			
3d. City, State, Zip			
Yakima, WA 98901			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h. E-mail
509-312-0375			Craig.Broadhead@jacobs.com
Part 4—Property Contact information for upland and aquatic or □ Same as applicant.	people or organizat wnership because th	ions owning the propo ne upland owners may	erty(ies) where the project will occur. Consider by not own the adjacent aquatic land. [help]
⊠ Repair or maintenar	nce activities on exis	ting rights-of-way or e	easements. (Skip to Part 5.)
☐ There are multiple u		ers. Complete the sec	ction below and fill out <u>JARPA Attachment A</u> for
the DNR at (360) 90	epartment of Natural 02-1100 to determine c Use Authorization.	Resources (DNR)-me aquatic land owners	nanaged aquatic lands. If you don't know, contactionship. If yes, complete <u>JARPA Attachment E</u> to
4a. Name (Last, First, Mic	ddie)		
4b. Organization (If app	licable)		
4c. Mailing Address (S	treet or PO Box)		
4d. City, State, Zip			
4e. Phone (1)	4f. Phone (2)	4g. Fax	4h. E-mail

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Part 5-Project Location(s)

Identifying information about the property or properties where the project will occur. [help]

☐ There are multiple project locations (e.g. linear projects). Complete the section below and use <u>JARPA</u> <u>Attachment B</u> for each additional project location.

5a. Indicate the type of ownership of the property. (Check all that apply.) [help]					
□ Private					
□ Federal					
□ Publicly owned (state, or expected)	☑ Publicly owned (state, county, city, special districts like schools, ports, etc.)				
☐ Tribal					
☐ Department of Natural	Resources (DNR) – mana	ged aquatic lands (Complete	JARPA Attachment E)		
5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [help]					
Manastash Road (see Se	ection 5p for driving direction	ons).			
5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]					
Ellensburg, WA 98926					
5d. County [help]					
Kittitas					
5e. Provide the section, township, and range for the project location. [help]					
1/4 Section	Section	Township	Range		

5f. Provide the latitude and longitude of the project location. [help]

13

• Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83)

46.959821 N, -120.785677 W

SW

5g. List the tax parcel number(s) for the project location. [help]

• The local county assessor's office can provide this information.

There is no tax parcel number for the project location. Adjacent properties are listed in Section 5h.

5h. Contact information for all adjoining property owners. (If you need more space, use <u>JARPA Attachment C</u>.) [help]

17N

16E

Name	Mailing Address	Tax Parcel # (if known)
Department of Natural Resources	1111 Washington St. SE	440400
	Olympia, WA 98504	449136
Department of Natural Resources	1111 Washington St. SE	F04000
	Olympia, WA 98504	584933
Gardinier, Lyle E. et al.	13730 15th Ave. NE Apt D102	464022
	Seattle WA 98125	464933
Camping Board of Stewards	PO Box 13650	
The Pac NW Annual Conf of the UMC	Des Moines WA 98198	574933

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5i. List all wetlands on or adjacent to the project location. [help]
There are no wetlands present within the project footprint. However, there are riverine wetlands southeast and southwest of the project area (outside County Right of Way) adjacent to the South Fork of Manastash Creek.
5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [help]
South Fork Manastash Creek is the only water body on or adjacent to the property.
5k. Is any part of the project area within a 100-year floodplain? [help]
⊠ Yes □ No □ Don't know
5l. Briefly describe the vegetation and habitat conditions on the property. [help]
Steep basalt outcroppings and open rock and grassland slopes characterize the local area. Vegetation and topography in the project vicinity are incised canyons with Douglas-fir (<i>Pseodotsuga menziesii</i>) and Ponderosa pine (<i>Pinus ponderosa</i>) associated ecotypes. Other slopes to the east are characteristic of rocky grassland, sagebrush (<i>Artemesia</i> spp.), antelope bitterbrush (<i>Purshia tridentata</i>), perennial bunch grasses, and non-native cheatgrass (<i>Bromus</i> spp). The bridge location is about 1.2 miles downstream of where South Fork Manastash Creek emerges from a narrower segment of the Manastash Creek Canyon. Approximately 6.3 miles downstream of the bridge location the Canyon opens to an active alluvial fan.
Habitat within the stream is good with an intact riparian zone that exists on an outwash terrace with relatively stable riparian buffers in the immediate project area that are somewhat altered from previous land uses. These riparian areas consist of willow (<i>Salix</i> spp.), cottonwood (<i>Populus balsamifera</i>), dogwood (<i>Cornus sericea</i>) and alder (<i>Alnus incana</i>). The canyon walls consist of steep basalt cliffs that terrace at the top to forested and shrub steppe habitat.
5m. Describe how the property is currently used. [help]
The property is currently used for public travel and right-of-way associated with Manastash Road. The project area occupies the roadway, an existing 30' bridge, and the South Fork Manastash Creek bed and streambank upstream and downstream of the project.
5n. Describe how the adjacent properties are currently used. [help]
There are several residences approximately 2,000 feet west of the project area. Adjacent properties are unimproved and are used for public recreation and private uses.
50. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [help]
The existing bridge was built in 1940 and reconstructed in 1975. The bridge is a concrete slab structure on girders, spanning 30 feet of stream with a roadway width of 28 feet. The bridge girders have deteriorated and are spalling in several locations, exposing structural rebar. In addition to deterioration to the bridge girders, the lateral movement of South Fork Manastash Creek has caused upstream bank erosion and is undermining the eastern bridge abutment. Due to the deteriorated conditions and active scour, the immediate replacement of the bridge is necessary for continued access and use of Manastash Road (See photos of bridge condition in attachment).
The bridge is built on spread footings, which are buried approximately 12 feet below the existing roadway. These footings will be removed with the existing bridge. The existing bridge is the only structure on the property.
5p. Provide driving directions from the closest highway to the project location, and attach a map. [help]

Turn west onto Umptanum Road and follow for approximately 1.5 miles. Turn west onto Manastash Road and follow for 10.5 miles to the bridge location.

Exit from Interstate 90 at Exit 109 for Canyon Road. Travel north on Canyon Road for approximately 0.5 miles.

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Part 6-Project Description

6a. Briefly summarize the overall project. You can provide more detail in 6b. [help]				
The project replaces a bridge over South Fork Manastash Creek near Ellensburg, Washington. The existing structure is rated as structurally deficient and is in need of replacement.				
6b. Describe the purpose of	the project and why you wa	nt or need to perform it. [help	0]	
Due to the deteriorated bridge condition and active bank erosion and footing scour, the immediate replacement of the bridge is necessary for continued access and use of Manastash Road. Manastash Road is the only access for several isolated rural residences and a priority arterial for access to US Forest Service property. The new bridge will provide safe and continued access for residents. In addition, the project will repair active bank erosion, and provide enhanced habitat benefits due to the added complexity and wider structure.				
6c. Indicate the project cate	gory. (Check all that apply) [help]			
☐ Commercial ☐ R	esidential Instituti	ional ⊠ Transportatio	on Recreational	
	nvironmental Enhancement			
6d. Indicate the major element	ents of your project. (Check all	that apply) [help]		
□ Aquaculture □ Culvert □ Bank Stabilization □ Dam / Weir □ Boat House □ Dike / Levee / Jetty □ Boat Launch □ Ditch □ Boat Lift □ Dock / Pier □ Bridge □ Dredging □ Bulkhead □ Fence □ Buoy □ Ferry Terminal □ Channel Modification □ Fishway		 ☐ Float ☐ Floating Home ☐ Geotechnical Survey ☐ Land Clearing ☐ Marina / Moorage ☐ Mining ☐ Outfall Structure ☐ Piling/Dolphin ☐ Raft 	 □ Retaining Wall (upland) ☑ Road □ Scientific Measurement Device □ Stairs □ Stormwater facility □ Swimming Pool □ Utility Line 	
 6e. Describe how you plan to construct each project element checked in 6d. Include specific construction methods and equipment to be used. [help] Identify where each element will occur in relation to the nearest waterbody. Indicate which activities are within the 100-year floodplain. 				

Access, Staging, and Temporary Detour

Staging of equipment and materials will occur within the project area on the existing roadway or widened pullouts, isolated from traffic (see attached drawings, Sheet 2 for a site overview plan). Equipment and material transport to the project site will occur via existing County roads. The contractor is responsible for obtaining permits and clearances for the use of any alternate staging areas.

The removal and replacement of the existing bridge will require a temporary detour be constructed just to the north of the existing bridge. The detour bridge will be a modular steel temporary structure that spans the OHWM and does not require any in-water support structures. However, the temporary detour structure requires

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excavation and the placement of temporary sills adjacent to the stream to provide adequate load bearing and the appropriate safety factor (see attached drawings, Sheet 11). This excavation will occur on each bank, and within the same upstream area that is to be graded for the stream tie-in to the new wider structure. After excavation of the area adjacent to the stream, crushed rock will be imported to provide foundational support for the temporary bridge abutments. Crushed rock will be removed with the temporary structure, and replaced with large rock as part of the bank protection revetment (see *Stream construction, Grading, and Bank Protection* below).

Clearing and Grading

Approximately 3,900 square feet (sf) of upland and riparian vegetation will be cleared for the temporary detour and grading for the new, wider bridge and stream channel (attached drawings, sheet 3).

- Approximately 1,500 sf of the 3,900 sf area currently provides some riparian function. The riparian vegetation is mostly shrub-type willows and young alder, with little to no overwater structure.
- Grading includes the removal of two to three trees with a diameter at breast height (dbh) of greater than 6 inches, including one 12-inch dbh and two 30-inch dbh trees, all ponderosa pine. If possible, the larger trees will be avoided. These trees are located in the upland area near the roadway, and do not provide riparian function. If these trees cannot be avoided, they will likely be used as large wood in the bank protection revetment.
- Vegetation under 6 inches dbh that will be removed for the construction of the temporary detour will
 include aspen, willow, wood's rose, alder, snowberry, and ocean spray. Where possible, the contractor will
 clear vegetation to ground level but will not grub in the footprint of the temporary detour route. This will
 allow natural regeneration to occur after the detour is removed. After clearing, suitable fill material will be
 brought in and placed to the elevation necessary for the detour roadway. After the new bridge is open to
 traffic, all fill will be removed to native ground elevation. The temporary detour could be in place for
 approximately 3 months.

Work Area Isolation and Rewatering

Before construction occurs below the OHWM, the work area will be isolated from flowing water using a temporary stream bypass. The project will occur during low-flow conditions. At lower flows, the isolation area is relatively shallow (typically 6 to 12 inches deep). The construction area below the OHWM will be isolated from the flows of South Fork Manastash Creek to minimize the effects of turbidity and allow construction in isolation (see attached drawings, sheet 4 for proposed isolation plan). This will ensure the project meets and maintains State water quality standards.

Qualified biologists will first set block nets and seine the work area to remove fish. The upstream block net will be placed, and the downstream net will be used as a seine to herd fish from the work area without handling. When block nets are in place, the isolation structure will be constructed. The isolation structure is yet to be determined, but may consist of sandbags, super sacks, or water bladders, and may have one or more bypass culverts appropriately sized for expected flows of Manastash Creek during the in-water work window. For the purpose of permitting, it is assumed the isolation structure will consist of temporary fill such as sandbags or super sack(s) that are used to either span the creek in conjunction with bypass culverts, or are used to isolate the work area from the flows of the creek. The amount of temporary fill below the OHWM required for the isolation is approximately 7.5 cubic yards (cy). The duration of use will extend throughout the approved in-water work window (up to 14 weeks) from July through October.

The stream bypass will extend far enough upstream and downstream of the work area to effectively isolate the entire project area. This will ensure impacts associated with isolation occur only once. Isolation and bypass culvert construction will require the use of heavy equipment, likely a thumbed excavator, operating below the OHWM. Equipment will not operate in active flows, however, and use will be limited to the quiet area behind the isolation structure. For example, the first few super sacks will be placed from the bank, prior to equipment entering the channel behind the isolation structure. The equipment will only operate from behind the isolation to complete the stream bypass.

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As the isolation structure and bypass are constructed, qualified biologists will be on-site to monitor flows as they recede and to remove any fish from the dewatered area. Though not anticipated due to shallow depths and gradient in the work area, small pumps may be used to completely dewater holding pools, if necessary, and manage any hyporheic flows that may be present behind the isolation structure. Electrofishing may be used to assist in fish removal if necessary, though it is likely dewatering with pumps will be effective. Once the isolation structure and bypass are in place and functioning, block nets will be removed.

The isolated area of South Fork Manastash Creek will be the minimum size necessary to allow complete removal of the existing bridge and construction of the new bridge, including construction of the rock revetment for bank protection and channel construction or grading areas. The total isolated footprint below the OHWM will be a maximum area encompassing approximately 4,200 square feet (attached drawings, Sheet 4).

After construction of the new bridge, stream channel, and bank protection revetment, the stream bypass will be removed and flows will be reintroduced into the dewatered area. A process known as ramping will be used to slowly reintroduce flow into the dewatered channel. The diversion barrier will be removed slowly over several hours to prevent velocity scour, minimize downstream turbidity, and allow the dewatered channel to return to a natural flow pattern. Any area of new or disturbed streambed will be washed with a low volume, high-pressure hose to work fines into the stream bed prior to the reintroduction of water. This will ensure flows stay on the surface and minimize sediment mobilization during rewatering. During this activity, BMPs will be used to ensure wash water does not mix with clean water downstream.

Bridge Removal

Once the diversion is in place, the existing bridge and wing walls will be removed by first cutting or breaking and removing the bridge superstructure, then excavating below the depth of bridge footings to remove the footings and abutment walls in their entirety. Bridge removal will occur by excavating and accessing from the existing roadway and from below in the isolated stream channel. The existing concrete structures will likely be cut or broken to facilitate removal. The contractor will place plastic or other BMPs to contain concrete debris and ensure all broken concrete and other debris is removed from the stream bed prior to rewatering.

Any groundwater encountered during excavation of the bridge footings will be pumped to an upland area such as roadside ditches for infiltration. Any water that reenters the creek will be clean. At no time will sediment-laden groundwater be pumped directly into the stream channel.

Bridge Construction

The current Manastash Creek Bridge has a span width of approximately 30 feet, and will be replaced by a longer structure that will span approximately 65 feet, completely spanning the OHWM.

Foundations and Substructure

The new bridge abutments will likely be built on drilled shafts. These shafts will be 4 to 5 feet in diameter, and there will be two shafts for each bridge abutment (four total). Drilled shafts of this diameter are most often constructed using a crane, which is used to operate an oscillator to remove material within a steel casing. As material is removed using the oscillator, the steel casing is advanced downward to the appropriate seating depth. Once the seating depth is reached, the steel casings are filled with structural rebar, and concrete is poured in the casing to form a concrete pile. While pouring the concrete, the shafts will be pulled vertically to a point approximately 6-10 feet below ground surface. After curing, the steel casing is typically cut off below the stream elevation and removed. As concrete is poured, any latent pH water within the casing will be pumped and hauled off-site.

A concrete pile cap will be poured in place on top of the drilled shafts, and the abutment will be constructed on top of the pile cap. No impact pile driving will be used. BMPs will be used to ensure concrete and any latent pH water is fully contained.

If drilled shafts are not feasible, the new bridge abutment may be placed on spread footings. If spread footings are used, the roadway approaches to the east and west will be excavated to the appropriate depth to install new bridge footings and allow equipment access within the existing roadway footprint. The new abutments for the bridge will consist of a reinforced rock and soil foundation, cast-in-place concrete spread footing, and a cast-in-place abutment wall. Regardless of spread footings or drilled shafts, the stream channel, grading, and methods

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for scour protection will remain as described below.

Shoring may be required during excavation of the existing bridge footings or construction of the new bridge footings and, if needed, will likely be placed in coordination with excavation. Shoring will be removed as the new bridge footings and channel substrate is placed. Any groundwater intercepted during excavation will be pumped to an upland location for infiltration or hauled off-site to an upland area for infiltration. No turbid water will be allowed to enter the stream.

Superstructure and Roadway Reconstruction

The roadway profile will likely be raised to accommodate the longer and wider bridge. However, either head walls will be used or the roadway side slopes will be steepened where possible to match the existing toe of slope. The bridge deck will most likely be precast concrete girders that are placed directly on the abutment seat with a cast-in-place reinforced concrete surface. This eliminates the need for deeper girders and allows a longer span bridge while more closely matching the existing roadway profile, eliminating fill impacts to the adjacent riparian area and associated wetlands. Barrier and railing will be constructed just prior to roadway resurfacing, and will likely be cast-in-place barrier on the bridge with guardrail on the approaches. All concrete work will be completely contained with no discharge to the stream and will occur during stream isolation.

The roadway approaches will be reconstructed with fill, paved, striped, and signage placed as one of the last elements of work before completion. BMP placement will prevent any discharge during paving activities.

Stream Construction, Grading, and Bank Protection

Grading of the stream banks at each corner of the new bridge will be needed to transition the existing stream bank into the new, wider structure. A new stream channel will be constructed in the area between the existing bridge abutments and the new bridge abutments, and the bank area graded to transition the wider stream, and will be comprised of appropriately sized stream bed material (see attached drawings, Sheets 5-8 for stream and grading plans). The areas of both new and existing stream bed will incorporate 1-2 man stream boulders (16-20 inch diameter) into the design (attached drawings, Sheet 5). These stream bed boulders will be half-buried in stream material, and will be placed to maximize habitat value.

Large rock armoring will be needed at the new bridge corners, both at and above the OHWM. Large rock (approximately 42-inch diameter) will also be buried in front of the abutment under the bridge for roadway scour protection. A row of large rock will be placed approximately 9 feet horizontally from the abutment, and will be buried 3-5 feet deeper than the stream bottom (attached drawings, Sheet 7). Class B rock for scour and erosion control (average diameter 16-22 inches) will be placed at a 2:1 slope from the abutment to the large rock elevation. Appropriately sized stream bed material will be placed on top of the large rock and Class B rock to maintain natural stream appearance, function, and habitat value. The entire area beneath the new structure will be streambed material, with no exposed protection rock. Areas of new stream bed will have fines washed in prior to rewatering to ensure surface flows when the temporary bypass is removed.

Bank Protection Revetment

A rock revetment will be constructed upstream of the bridge to provide bank erosion and scour protection in the newly-graded transition area. Both the left and right banks upstream of the bridge have to be graded to transition to the new wider structure (attached drawings, Sheets 5, 6, and 9). This revetment will be built in the area excavated for the construction of the temporary detour structure and transitionally-graded areas, and is necessary to protect the newly-graded streambanks and prevent on-going and expected erosion. It is important to note the bank protection revetment will be constructed in the area that is currently stream bank, and will not be built water-ward of the existing banks. The revetment will not narrow the existing or proposed channel width.

Large rock (approximately 42-inch diameter) will be buried to the thalweg elevation at the toe of the newly-graded bank area, and a slope liner (either geotextile or close-weave mat) will be placed prior to the placement of Class B protection rock. Revetment rock will be placed at a 2:1 slope on the new banks (attached drawings, Sheet 9). Large rock below the OHWM will be covered with stream bed material. The stream banks will be planted at the time of grading and rock placement for enhanced plant success.

Large wood will be incorporated into the revetment as individual pieces or complex structures consisting of one or more pieces. Large wood pieces will be from trees removed on site, and will consist of stems or stems with root wads (See attached drawings, Sheet 10 for typical large wood detail). If additional large wood is required to meet approvals, it will be provided as part of the contract.

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Planting and Site Restoration				
The revetment area and graded areas at the new bridge corners will be planted with native vegetation (see attached drawings, Sheets 5 - 9 for planting areas and detail). Willow cuttings will provide the best likelihood for success in the new stream bank area, with dogwood and cottonwood also planted where suitable saturation occurs during the growing season. Plants will be harvested from a local source or purchased from a native plant nursery. Disturbed roadside and new embankment areas that are not rock will be seeded with a native roadside and erosion control mix and stabilized with mulch cover prior to project completion.				
<u>Demobilization</u>				
Any remaining non-biodegradable BMP's, accumulated sediment, stockpiled material, and equipment will be removed and fencing will be restored.				
6f. What are the anticipated start and end dates for project construction? (Month/Year) [help]				
 If the project will be constructed in phases or stages, use <u>JARPA Attachment D</u> to list the start and end dates of each phase or stage. 				
Start Date: July 2018 End Date: November 2018 See JARPA Attachment D				
6g. Fair market value of the project, including materials, labor, machine rentals, etc. [help]				
\$2,400,000				
Will any portion of the project receive federal funding? [help] If yes, list each agency providing funds.				
⊠ Yes □ No □ Don't know				
Part 7–Wetlands: Impacts and Mitigation ☐ Check here if there are wetlands or wetland buffers on or adjacent to the project area. (If there are none, skip to Part 8.) [help]				
7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]				
□ Not applicable				
Downstream of the bridge, just outside County Right of Way (ROW), is a high quality, forested riparian area with associated wetlands. These wetlands interact with Manastash Creek through both groundwater and overbank flows. Impacting these wetlands would be costly in terms of mitigation, and the project was designed in accordance with National Environmental Policy Act 40 CFR 1508.20, Clean Water Act Section 401/404, and Washington State Hydraulic Code avoidance and minimization protocols. In order to avoid these wetlands and the high-quality forested riparian area, the grading plan was shortened to a catch point just inside the County ROW. This eliminated the impact to the forested area and wetlands.				
7b. Will the project impact wetlands? [help]				
☐ Yes ⊠ No ☐ Don't know				
7c. Will the project impact wetland buffers? [help]				
☐ Yes ☒ No ☐ Don't know				
The project is designed to minimize vegetation impacts downstream of the bridge location by staying within County ROW and not impacting wetlands or wetland buffers. The new bridge corners will be graded to blend the wider structure and stream into the riparian area. These areas will be replanted with native vegetation.				
7d. Has a wetland delineation report been prepared? [help]				
If Yes, submit the report, including data sheets, with the JARPA package.				

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☐ Yes ☒ No						
7e. Have the wetlan System? [help] • If Yes, submit	nds been rated us		_		shington Wetla	and Rating
☐ Yes ☒ No ☐ Don't know						
7f. Have you prepa	red a mitigation p	lan to compensa	ite for any a	dverse impacts	to wetlands? [help]
If Yes, submit the plan with the JARPA package and answer 7g.						
If No, or Not applicable, explain below why a mitigation plan should not be required.						
☐ Yes ☒ No						
No impacts will occi	ur to wetlands or v	wetland buffers.				
7g. Summarize who used to design		lan is meant to a	accomplish,	and describe ho	w a watershed	approach was
N/A						
	elow to list the type type and amount ou can state (belov	of mitigation pro	oposed. Or i	f you are submit	tting a mitigatio	
Activity (fill, drain, excavate, flood, etc.)	Wetland Name ¹	Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)
N/A						
If no official name for the	wetland exists create a l	inique name (euch ac	"Metland 1") Th	nama should be se	neigtant with other n	roject decuments, queb
If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report. Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package. Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable. Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)						
Page number(s) for						
7i. For all filling activ	vities identified in a used, and how a					amount in cubic
N/A	deci, and now a	ild where it will s	oe placed iiii	to the wettand.	<u>ITIEID</u>	
7j. For all excavating cubic yards you	g activities identifi will remove, and v				pe and amour	nt of material in
N/A – there will be no excavation in wetlands for this project.						

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Part 8-Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [help]

☑ Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment.
□ Not applicable

Bridge removal work will be completed in isolation from the flows of South Fork Manastash Creek. Work to set the temporary isolation structure will require heavy equipment operation below the OHWM, but work will occur in the area behind the isolation structure and out of the flowing water of South Fork Manastash Creek. Water quality will be maintained at all times within the Washington State Department of Ecology guidelines in Washington Administrative Code (WAC) 173-201A. Minimization measures that will be required in the contract and will further minimize or prevent impacts are listed below:

- **MM 1** Bridge and channel work below the OHWM will only occur in an isolated condition.
- **MM 2** All work below the OHWM will be conducted during the identified in-water work window to remain protective of aquatic species.
- **MM 3** All equipment will be inspected for leaks prior to work each day.
- **MM 4** All equipment that works below the OHWM will contain vegetable oil or other biodegradable alternative to hydraulic fluid.
- **MM 5** Equipment staging and fueling will occur more than 50 feet from the OHWM of the South Fork Manastash Creek.
- **MM 6** Worksite isolation and fish exclusion will be conducted by qualified biologists in accordance with the 2016 Washington State Department of Transportation Fish Exclusion Protocols and Standards.
- MM 7 Small pumps, if used to dewater holding pools or hyporheic flows, will be screened to NMFS criteria.
- **MM 8** Fines will be washed into areas of new streambed prior to the reintroduction of flows to ensure water stays on the surface, and to minimize downstream turbidity during rewatering.
- **MM 9** Water will be reintroduced (ramped) to the stream channel slowly during removal of containment measures to minimize turbidity and allow natural equilibration to occur.
- **MM 10** BMPs such as wattles or silt fence will be used to prevent the discharge of any sediment or material into flowing water.
- **MM 11** Vegetation removal required for access or the temporary detour that is not part of the permanent impact limits will be cut, but not grubbed, to allow natural regeneration.
- MM 12 Isolation and BMPs will be sufficient to contain turbidity within State water quality standards. No untreated dewatering water, latent pH water, or concrete materials will be discharged to flowing water or remain in the stream channel prior to re-introduction of the stream.
- MM 13 The contractor will be required to develop and follow a Temporary Erosion and Sediment Control Plan, Spill Prevention, Control, and Containment Plan, and Water Quality Monitoring Plan. These plans will ensure protection of the aquatic resource during construction.

8b. Will your project impact a waterbody or the area around a waterbody? [help]				
⊠ Yes □ No				
8c. Have you prepared a mitigation plan to compensate for the project's adverse impacts to non-wetland waterbodies? [help]				
If Yes, submit the plan with the JARPA package and answer 8d.				
 If No, or Not applicable, explain below why a mitigation plan should not be required. 				
☐ Yes ⊠ No ☐ Don't know				
The project replaced on approximate 20 feet wide structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with an approximate CF feet wide at a structure with a s				

The project replaces an approximate 30-foot wide structure with an approximate 65-foot wide structure, and the wider stream channel is designed to meet WDFW stream crossing guidance. The removal of the smaller bridge and new, wider stream bed area will provide a functional uplift to the current hydraulic and habitat condition of the creek. In addition, the erosion of the upstream bank area will be stabilized due to the wider channel and construction of a planted rock revetment. When integrated as part of the design, these measures provide a functional uplift and are self-mitigating. See attached drawings, Sheets 5-9 for stream design and cross sections.

- **8d.** Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.
 - If you already completed 7g you do not need to restate your answer here. [help]

N/A

8e. Summarize impact(s) to each waterbody in the table below. [help]

ı	placed in or removed from waterbody	linear ft.) of waterbody directly affected
	ox. 7.5 cy, in persacks	100 sf
155	5 cy	1,150 sf
157	' cy	1,150 sf
N/A		4,200 sf 125 linear feet
	N/A	N/A

If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided.

Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

³ Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

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8f. For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [help]

Temporary Fill

If filled sandbags or super sacks are used for the isolation structure and temporary bypass, approximately 7.5 cy will be considered fill below the OWHM.

Fill

A new stream channel will be constructed in the area between the existing bridge abutments and the new bridge abutments and in the transitionally-graded areas, and will be comprised of appropriately sized stream bed material. Large rock armoring will be needed on the upstream banks and at the new bridge corners, both at and above the OHWM. Large rock will also be buried in front of the abutments under the bridge for roadway scour protection, but will be covered with stream bed material. Material will be placed while the work area is isolated from the stream, likely by end-dumping and placing with small equipment.

The majority of earthwork on the project is replacing current road fill with new stream bed material in the footprint of the new, wider bridge. Approximately 155 cy will be excavated below the OHWM, and approximately 157 cy will be placed. This 157 cy estimate includes native material that may be removed to allow access and removal of the existing bridge, but is then replaced in the same footprint.

8g. For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [help]

Excavation

The project will excavate approximately 155 cy of material below the OHWM. The existing bridge footings and abutments will also be removed in their entirety and are included in this estimate. As stated above, some of this material will be replaced in the same footprint. Excavation will occur during isolation, and material, if suitable, will be re-used or hauled off and disposed of at a permitted facility. The project results in a net increase of only 2 cy of fill below the OHWM, as imported stream bed material.

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Part 9-Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

Agency Name	Contact Name	Phone	Most Recent Date of Contact
WDFW	Jennifer Nelson	509-952-1013	12/15/17
NMFS	Sean Gross	509-962-8911	12/19/17
NMFS	Roman Pittman	509-962-8911	12/19/17
USFWS	Greg VanStralen	509-665-3508	1/3/2018
WSDOT	Jodie Beall	360-705-6975	1/3/2018
□ Yes ⊠ No	uth Fork Manastash Creek is	not 303d listed for any para	meter
Go to http://cfpub.ep 17030001 – Upper Yak		identify the HUC.	
	rce Inventory Area Number (V y.wa.gov/water/wria/index.html to fir	,	<u>nelp]</u>
39 – Upper Yakima	The state of the s	is the trial th.	
[help] • Go to http://www.ec	nstruction work comply with the way was a way way way way was a way way way way way was a way way way way way way		er quality standards for turbidity′:
[help] Go to http://www.ecc Yes □ No □ Of. If the project is within environment designs If you don't know, co For more information □ Urban □ Natu	www.gov/programs/wq/swqs/criterial Not applicable In the jurisdiction of the Shorel ation? [help] Intact the local planning department In, go to: http://www.ecy.wa.gov/progral Aquatic Conser	ine Management Act, what ine Management Act, white Management Act, what ine Management Act, white Mana	is the local shoreline 6/211 designations.html. nservancy
[help] Go to http://www.ecc Yes □ No □ 9f. If the project is within environment designate of the project is within the project is wi	www.gov/programs/wq/swqs/criterial Not applicable In the jurisdiction of the Shorel ation? [help] Intact the local planning department In, go to: http://www.ecy.wa.gov/prog	Ine Management Act, what Image: Interpretation of the standards. Interpr	nservancy

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If No, provide the name of the manual your project is designed to meet.
☑ Yes ☐ No N/A – minor increase in impervious surface from the roadway taper to the new bridge is 100% infiltrated with no discharge to South Fork Manastash Creek.
Name of manual:
9i. Does the project site have known contaminated sediment? [help] • If Yes, please describe below.
□ Yes ⊠ No
9j. If you know what the property was used for in the past, describe below. [help]
The project site has been maintained County right-of-way and structure since 1940.
9k. Has a cultural resource (archaeological) survey been performed on the project area? [help] • If Yes, attach it to your JARPA package.
☑ Yes □ No – The assessment is in review with DAHP as a FHWA action.
91. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [help]

Common Name	Listing Status	Determination			
U.S. Fish and Wildlife Service					
Gray wolf	Endangered	No effect			
Canada lynx	Threatened	No effect			
Yellow-billed cuckoo	Threatened	No effect			
Marbled murrelet	Threatened	No effect			
North American wolverine	Proposed Threatened	No effect			
Bull trout - Columbia River DPS	Threatened	May affect, not likely to adversely affect			
Bull trout - Critical Habitat	Designated	No effect			
N	lational Marine Fisheries	Service			
Steelhead – Middle Columbia River (MCR) Summer-run DPS Threatened May affe		May affect, likely to adversely affect			
Steelhead - Critical Habitat	Designated	No effect			

Project is in consultation with USFWS and NMFS.

9m. Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. [help]

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The project is within a management buffer for northern spotted owl and regular concentration areas for elk and mule deer. Rainbow trout and westslope cutthroat have occurrence/migration areas within the project area. However, the project will not affect any priority habitat or species.

Part 10-SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at http://apps.oria.wa.gov/opas/
- Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.
- For a list of addresses to send your JARPA to, click on agency addresses for completed JARPA.

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help]				
For more information about SEPA, go to www.ecy.wa.gov/programs/sea/sepa/e-review.html .				
\square A copy of the SEPA determination or letter of exemption is included with this application.				
☐ A SEPA determination is pending with (lead agency). The expected decision date is				
☐ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [help]				
☑ This project is exempt (choose type of exemption below).				
 ☑ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt? <u>WAC 197-11-800(27) Replacement of structurally deficient city, town</u> and county bridges □ Other: 				
☐ SEPA is pre-empted by federal law.				
10b. Indicate the permits you are applying for. (Check all that apply.) [help]				
LOCAL GOVERNMENT				
Local Government Shoreline permits:				
☐ Substantial Development ☐ Conditional Use ☐ Variance				
Shoreline Exemption Type (explain): WAC 173-27-040(2)(b) − Normal maintenance or repair				
Other City/County permits:				
☐ Floodplain Development Permit				
STATE GOVERNMENT				
Washington Department of Fish and Wildlife:				
☑ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption – Attach Exemption Form				
Washington Department of Natural Resources:				
☐ Aquatic Use Authorization				
Complete <u>JARPA Attachment E</u> and submit a check for \$25 payable to the Washington Department of Natural Resources. <u>Do not send cash.</u>				
Washington Department of Ecology:				
☐ Section 401 Water Quality Certification				
FEDERAL GOVERNMENT				

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United States Department of the Army permits (U.S. Army Corps of Engineers):			
⊠ Section 404 (discharges into waters of the U.S.)	☐ Section 10 (work in navigable waters)		
Anticipated Nationwide Permit 14			
United States Coast Guard permits:			
☐ General Bridge Act Permit	☐ Private Aids to Navigation (for non-bridge projects)		

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Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [help]

11a. Applicant Signature (required) [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. ______ (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project.

Applicant Printed Name

Applicant Signature

Jan 19, 2018

Date

11b. Authorized Agent Signature [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

CRAIG D. Broadhead
Authorized Agent Printed Name

Authorized Agent Signature

Jan 19, 2018

Date

11c. Property Owner Signature (if not applicant) [heip]

Not required if project is on existing rights-of-way or easements (provide copy of easement with JARPA).

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Property Owner Printed Name

Property Owner Signature

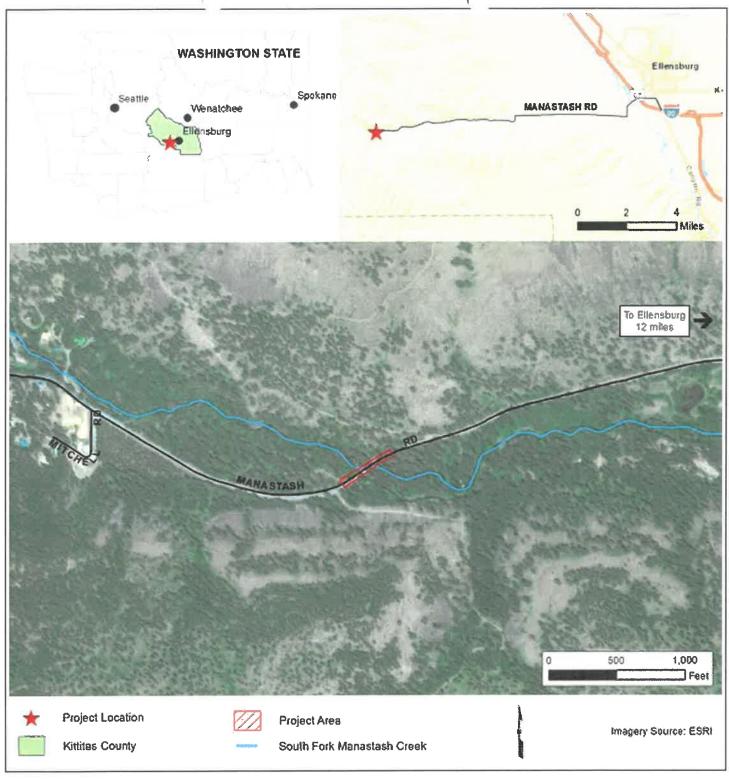
Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than \$ years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 09/2016

Manastash Bridge Replacement Project JARPA Attachment

Plans, Drawings, and Photographs



MANASTASH ROAD BRIDGE REPLACEMENT VICINITY MAP

USACE REF.#:

ADJACENT PROPERTY OWNERS: See

JARPA

APPLICANT: Kittitas County Public Works

JACOBS

LOCATION: T17N, R16E, S13

PARCEL NUMBER: N/A

LATITUDE: 46.959821° N LONGITUDE: -120.785677° W

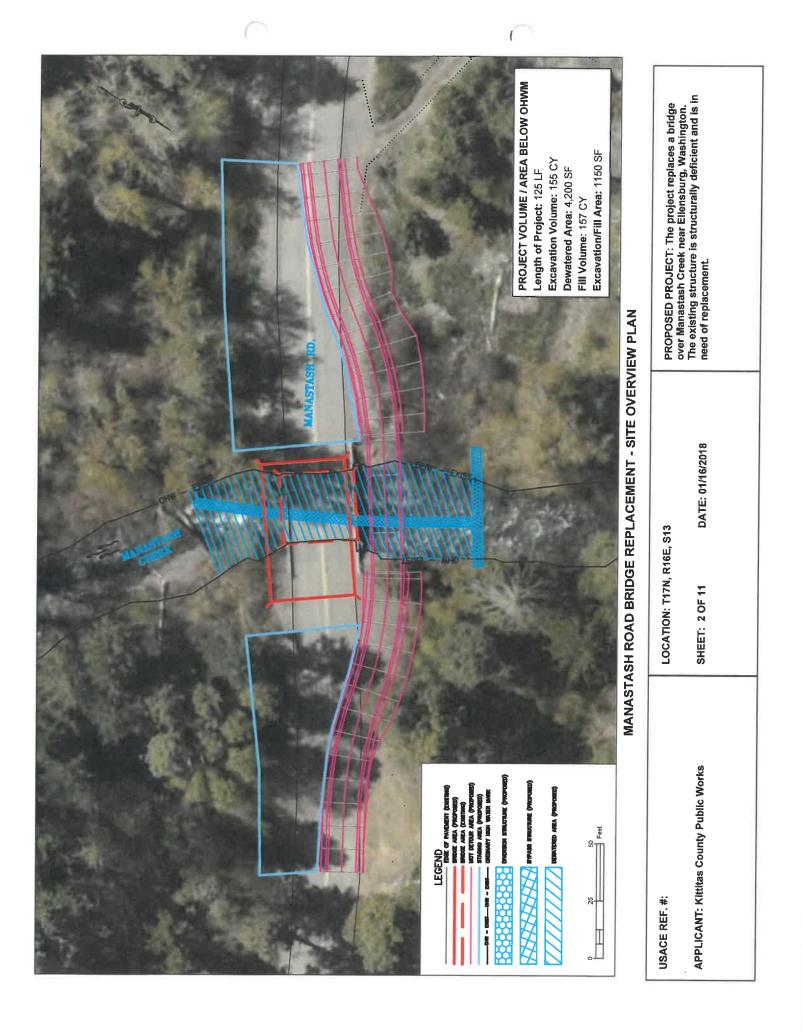
SHEET: 1 of 11

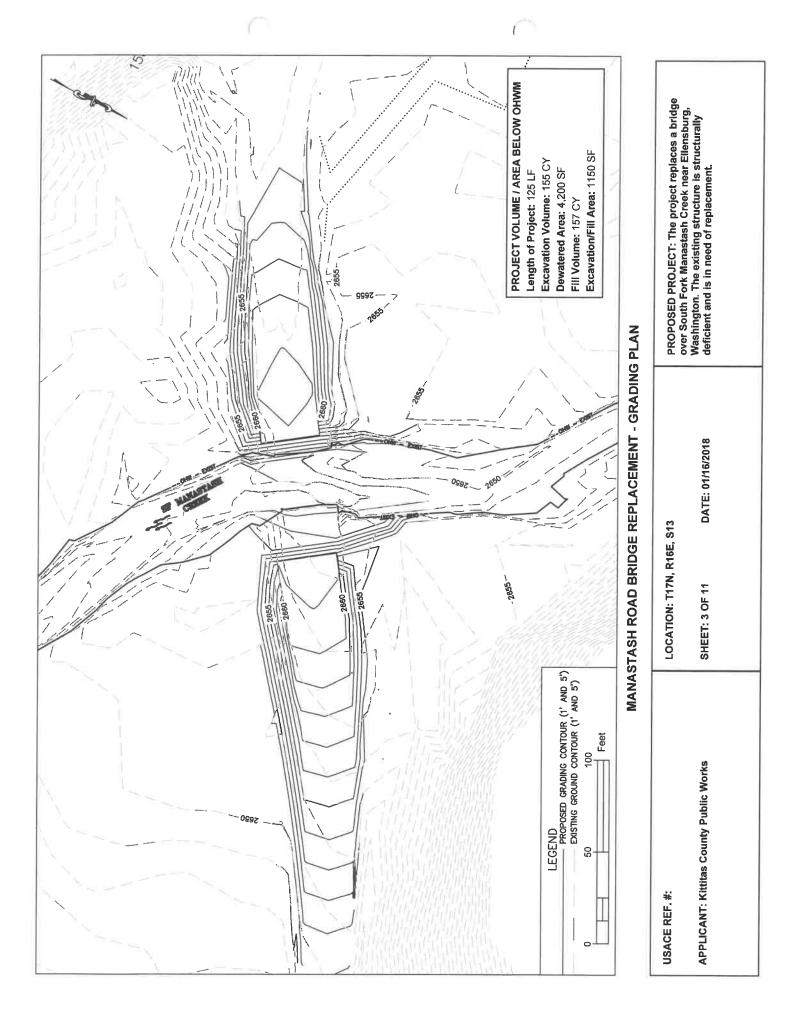
DATE: Jan. 15, 2018

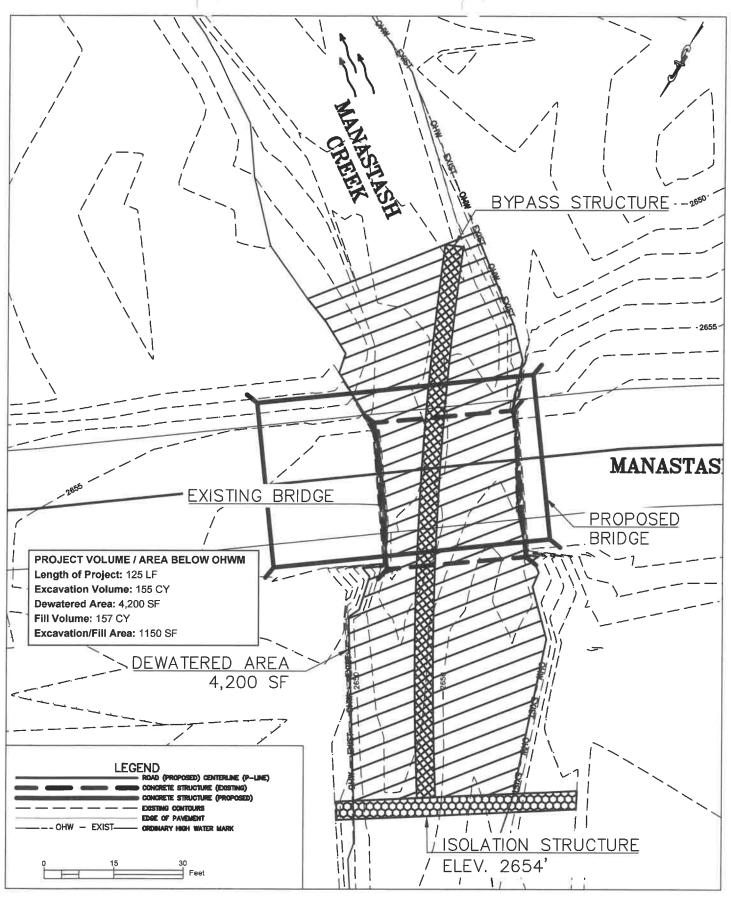
PROPOSED PROJECT: The project replaces a bridge over South Fork Manastash Creek near Ellensburg, Washington. The existing structure is structurally deficient and is in need of

replacement.

IN: SF Manastash Creek NEAR: Ellensburg COUNTY: Kittitas STATE: WA





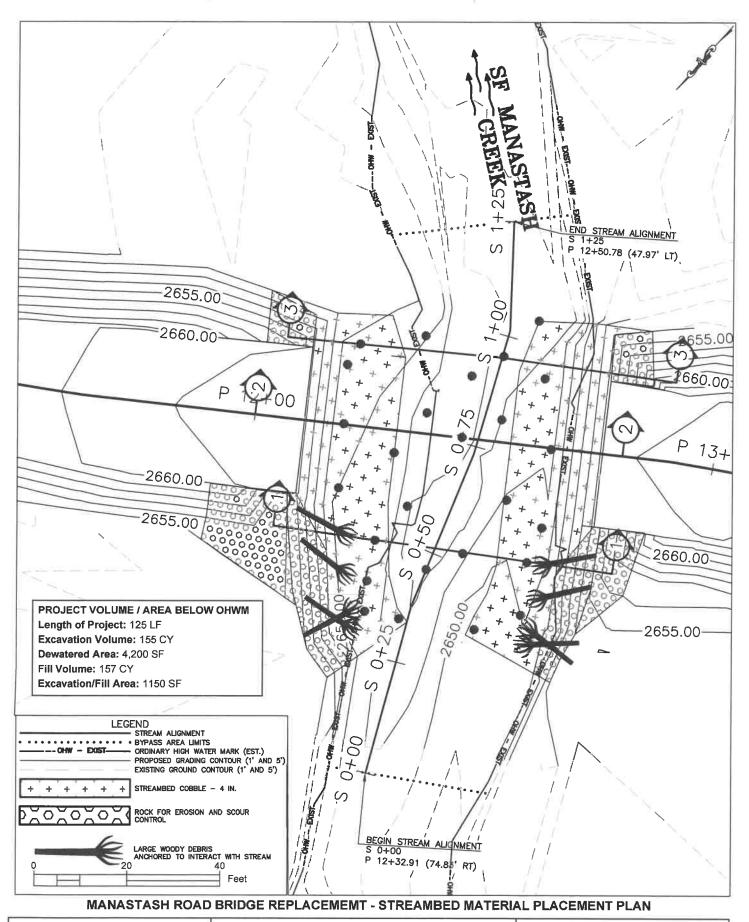


MANASTASH ROAD BRIDGE REPLACEMENT - PROPOSED ISOLATION PLAN

USACE REF. #: APPLICANT NAME: Kittitas County Public Works PROPOSED PROJECT: The project replaces a bridge over South Fork Manastash Creek near Ellensburg, Washington. The existing structure is structurally deficient and is in need of replacement.

LOCATION: T17N, R16E, S13

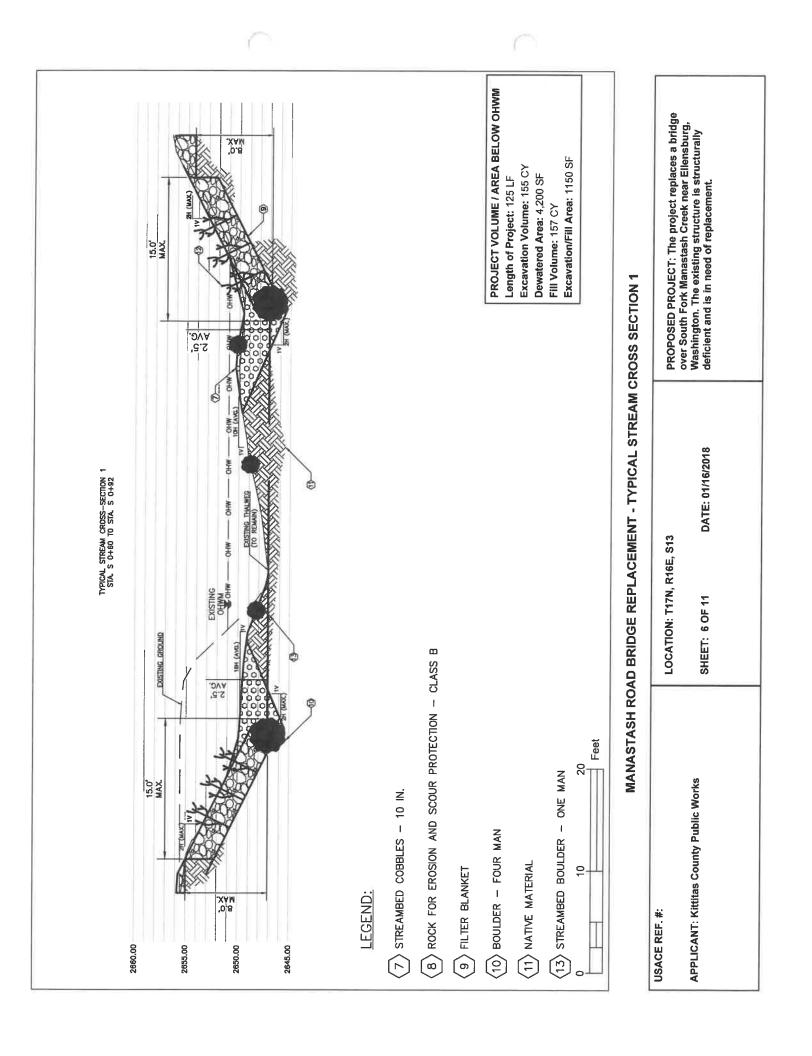
SHEET: 4 OF 11 DATE: 01/16/2018

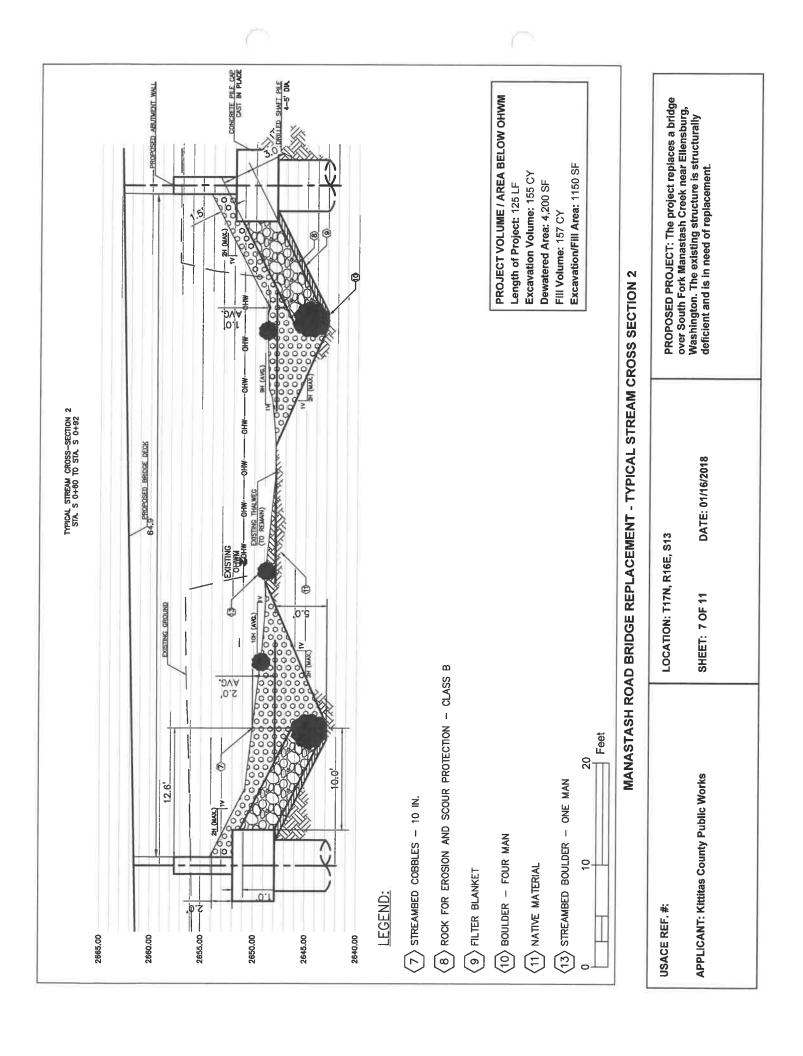


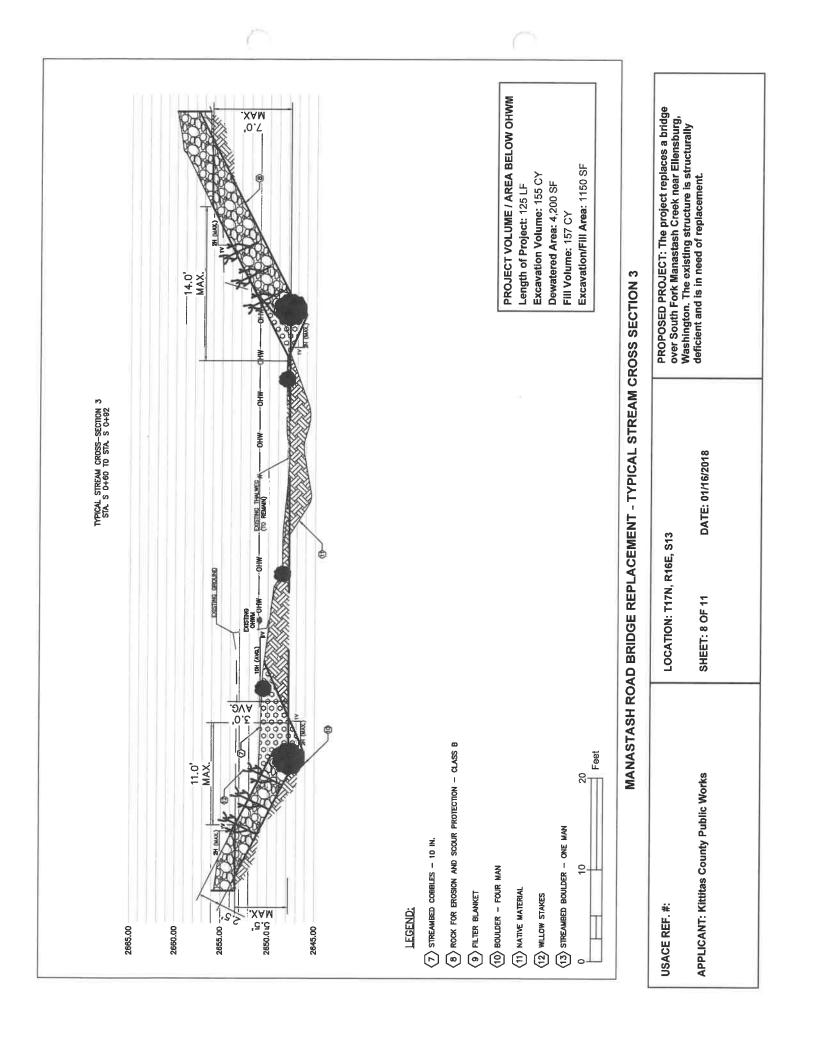
USACE REF. #: APPLICANT NAME: Kittitas County Public Works PROPOSED PROJECT: The project replaces a bridge over South Fork Manastash Creek near Ellensburg, Washington. The existing structure is structurally deficient and is in need of replacement.

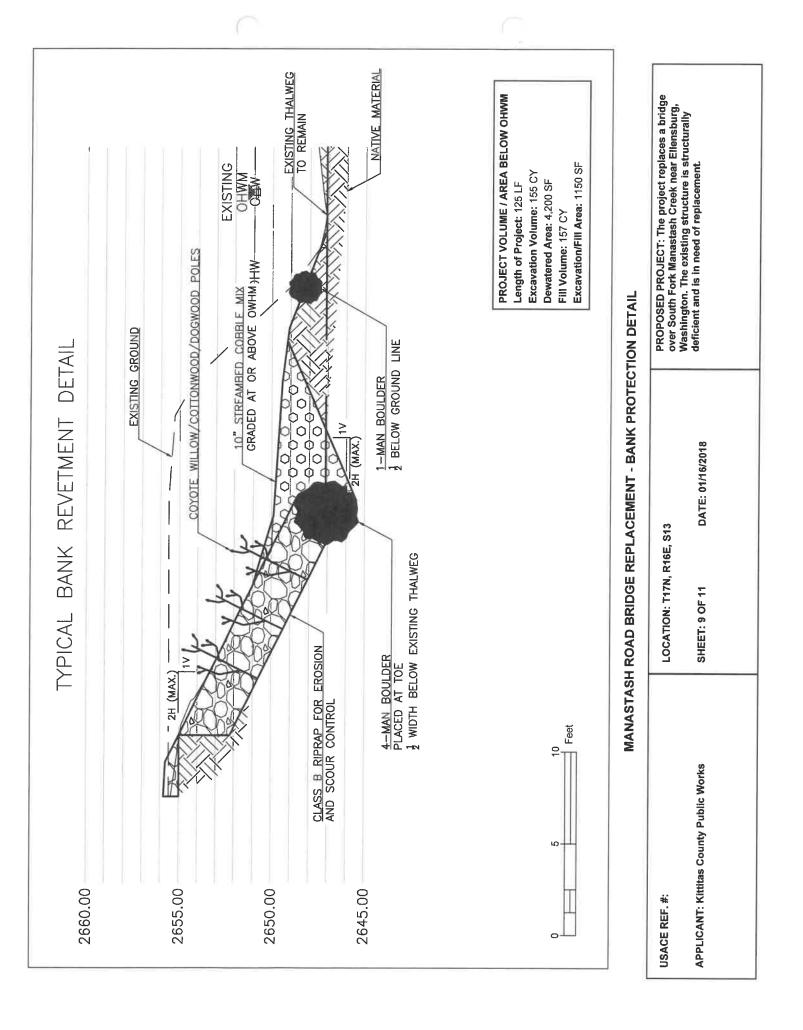
LOCATION: T17N, R16E, S13

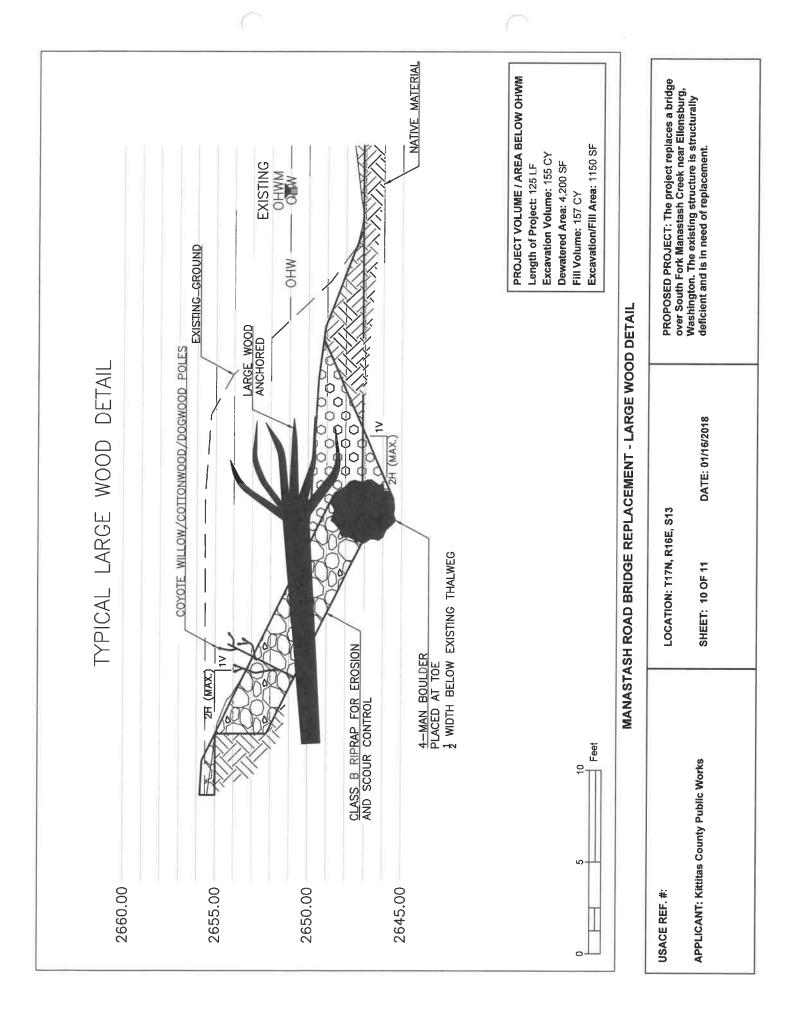
SHEET: 5 OF 11 DATE: 01/16/2018











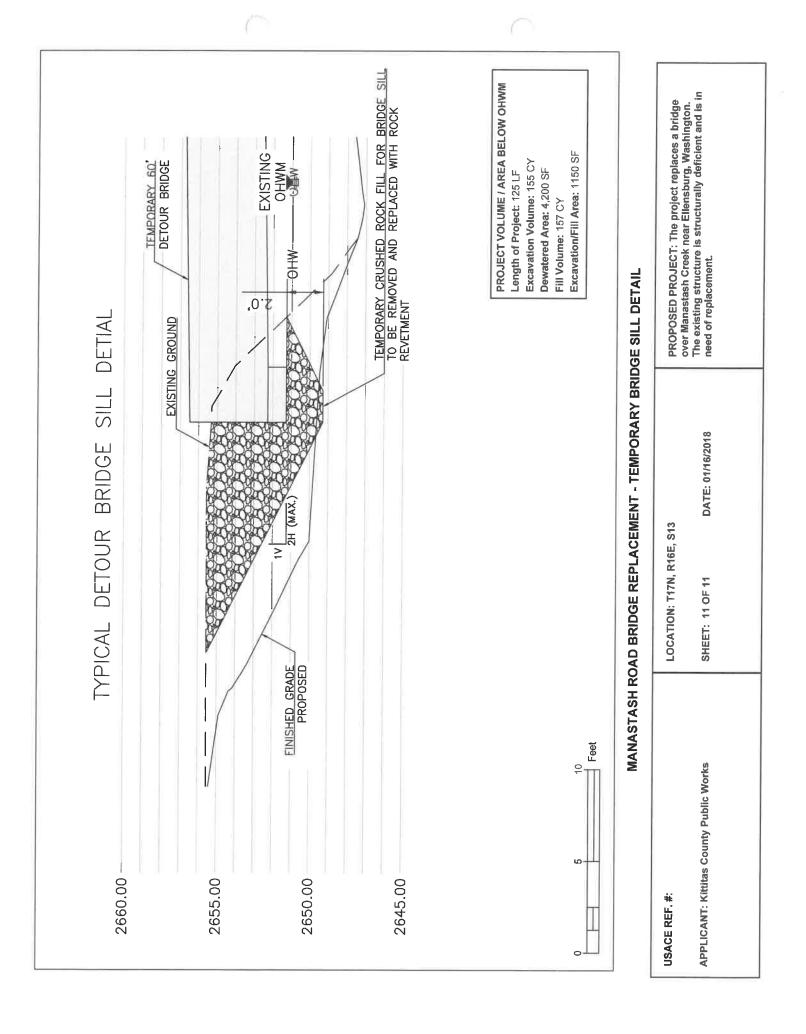






Photo 1. Manastash Road Bridge.

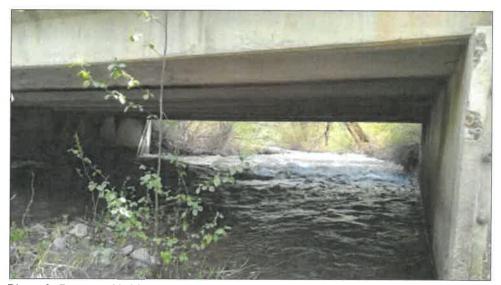


Photo 2. Damaged bridge girder.





Photo 3. Damaged bridge girder and exposed rebar.





Photo 4. Damaged bridge girder and exposed rebar-





Photo 5. Scour on the north bank of Manastash Creek.



Photo 6. Proposed detour route on north side of bridge.





Photo 7. Vegetation on north side of bridge.



32 North 3rd Street Suite 304 Yakima, WA 98901 www.jacobs.com

February 15, 2018

Attention: Dan Carlson
Kittitas County Community Development Services
411 N. Ruby Street, Suite 2
Ellensburg, WA 98926

Subject: Kittitas County Public Works; Manastash Creek Bridge Replacement Project

Request for SEPA, Critical Areas, and Shoreline Permit Exemptions

Dear Dan:

The intent of this letter is to request exemption status for SEPA, Critical Areas Ordinances, and Shoreline Development Permits for replacement of the Manastash Creek Bridge by Kittitas County Public Works. Documentation and justification for these exemptions are provided herein and in the enclosed information. The project Joint Aquatic Resources Permit Application (JARPA) is enclosed for your reference. These forms provide documentation of project effects on environmental resources.

Also enclosed is a Kittitas County Shoreline Exemption Permitting application.

Project Description

The project will replace the Manastash Road Bridge over South Fork Manastash Creek. The bridge is rated as structurally deficient, and is currently load rated. The project will include the complete removal of the existing 30-foot span and abutments and the construction of a new structure on the same alignment. Manastash Road serves as access to rural residences, a Washington Department of Natural Resources snow park during the winter months, and a main arterial for public access to U.S. Forest Service roads.

The existing bridge girders have deteriorated and are spalling in several locations, exposing structural rebar. In addition to deterioration to the bridge girders, the lateral movement of Manastash Creek has caused bank erosion and is undermining the northeastern bridge abutment. Scour will continue, as the current thalweg is directly against this abutment. Due to the deteriorated conditions and active scour, the immediate replacement of the bridge is necessary for continued access and use of Manastash Road.

SEPA

Washington Administrative Code (WAC) 197-11-800 defines categorical exemptions from threshold determinations for proposed actions.

WAC 197-11-800(27) **Structurally deficient city, town and county bridges.** The repair, reconstruction, restoration, retrofitting, or replacement of a structurally deficient city, town or county bridge shall be exempt as long as the action:



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Request for SEPA, Critical Areas, and Shoreline Permit Exemptions

- (a) Occurs within the existing right of way and in a manner that substantially conforms to the preexisting design, function, and location as the original except to meet current engineering standards or environmental permit requirements; and
- (b) The action does not result in addition of automobile lanes, a change in capacity, or a change in functional use of the facility.

"Structurally deficient" means a bridge that is classified as in poor condition under the state bridge condition rating system and is reported by the state to the national bridge inventory as having a deck, superstructure, or substructure rating of 4 or below. Structurally deficient bridges are characterized by deteriorated conditions of significant bridge elements and potentially reduced load-carrying capacity.

The project meets this SEPA exemption because:

- The current bridge is rated at 4 for substructure elements and is therefore classified as structurally deficient.
- The project will occur within existing right of way and the new structure will have the same design and function.
- The new structure is designed in accordance with Washington Department of Fish and Wildlife stream crossing design guidelines
- There will be no change in capacity of the roadway as a result of the new structure.

Shoreline Development Permit

The project is located within a Rural Conservancy Shoreline designation area. The project is exempt from Shoreline Development Permits as described below.

WAC 173-27-040(2)(b) and Kittitas County Code (KCC) 17B.07.030(2)(b) define actions which are exempt from substantial development permits under the Shoreline Management Act.

These codes state: The following developments shall not require substantial development permits: Normal maintenance or repair of existing structures or developments, including damage by accident, fire or elements. "Normal maintenance" includes those usual acts to prevent a decline, lapse, or cessation from a lawfully established condition. "Normal repair" means to restore a development to a state comparable to its original condition, including but not limited to its size, shape, configuration, location and external appearance, within a reasonable period after decay or partial destruction, except where repair causes substantial adverse effects to shoreline resource or environment. Replacement of a structure or development may be authorized as repair where such replacement is the common method of repair for the type of structure or development and the replacement structure or development is comparable to the original structure or development including but not limited to its size, shape, configuration, location and external appearance and the replacement does not cause substantial adverse effects to shoreline resources or environment.

The proposed project is required due to the structural deficiency and unsafe condition of the bridge. The replacement of the structure is in accordance with Washington Department of Fish and Wildlife stream



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Request for SEPA, Critical Areas, and Shoreline Permit Exemptions

crossing guidelines, which define the common method of repair. The new structure is similar in appearance and function, and will not cause adverse effects to the shoreline environment. The project is considered beneficial in that it removes a constriction, restores channel processes with a wider structure, and improves aquatic habitat.

A Shoreline Exemption Permitting Application is attached for your review and use.

Critical Areas

The project is located in the 100-year floodplain of South Fork Manastash Creek. The project will not affect wetlands or other critical areas.

Revised Code of Washington (RCW) 36.70A.170 and 36.70A.060, and KCC Chapter 17A.03.020 define the management of Critical Areas.

KCC 17A.03.020(5) states activities are exempt when: Reconstruction as a result of destruction by a natural disaster or disintegration over time, maintenance, or remodeling of structures, provided that such reconstruction, maintenance, or remodeling does not involve an expansion of the structure's footprint when located within a critical area. Any such activity shall nevertheless comply with the county's flood damage prevention ordinance, No. 93-18.

Through the project will provide a bridge with a larger hydraulic opening, the proposed project meets the criteria for this exemption because the footprint remains the same and the replacement bridge will not expand into any critical areas. The large wood placed as part of the project will benefit aquatic habitat, and re-planting will occur of any impacted riparian areas. Public Works completed a hydraulic model of the replacement structure, which will result in no impact to frequently flooded areas (on file with Public Works).

Jacobs, as an agent for Kittitas County Public Works, is requesting exemptions from SEPA, Shoreline Development Permits, and Growth Management Act Critical Areas Ordinance permits for the proposed project. Please let me know of any questions, or if you require any additional information.

Sincerely,

Craig Broadhead

Cry o Breatles

Eastern WA Environmental Practice Lead

Jacobs Engineering Group

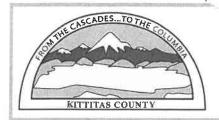
Encl:

Kittitas County Shoreline Exemption Application

Project JARPA and drawings

Cc w/encl:

Lucas Huck, Kittitas County Engineer



Kittitas County

98926

411 N. Ruby St., Suite 2, Ellensburg WA

509-962-7506

https://www.co.kittitas.wa.us/cds/ cds@co.kittitas.wa.us

INVOICE

Date: 22-Feb-18

Lucas Huck 411 NORTH RUBY STREET SUITE 1 ELLENSBURG, WA 98926

Application No.: SX-18-00006

Parcel No.:

449136

Project:

Subdivision:

Permit Type:

Shorelines Exemption

BLOCK/LOT

Site Address:

UNKNOWN

Kittitas County, WA UNKNOWN

Description	Fee Amount	Paid/Credit	Balance Due
Shoreline Exemption	\$590.00	\$0.00	\$590.00

Total Fee Amount: \$590.00 Total Paid Credits: \$0.00 **Balance Due:** \$590.00

PAYMENT DUE UPON RECEIPT

Contacts:

Type	Name	Address
OWNER	STATE OF WASHINGTON	PO BOX 47014 DEPT. NATURAL RESOURCES OLYMPIA, WA 98504-7014
AUTHORIZED AGENT	BROADHEAD, CRAIG 509-312-0375	32 NORTH 3RD STREET YAKIMA, WA 98901
APPLICANT	Lucas Huck 509-962-7523	411 NORTH RUBY STREET SUITE 1 ELLENSBURG, WA 98926