Application for Streamlined Processing of FISH HABITAT ENHANCEMENT PROJECTS Addition to the Joint Aquatic Permit Application (JARPA)

Under RCW 77.55.181 you may qualify for a streamlined permit process with no fees if your project is designed to enhance fish habitat. If your project meets the requirements below, you are entitled to the streamlined Hydraulie Project Approval (HPA) process, exemption from the State Environmental Policy Act (SEPA), and exemption from all local government permits and fees. To apply for the exemption process, you must provide, on the same day, a complete application package to: the Department of Fish and Wildlife (WDFW) and all applicable local government planning and permitting departments. Local governments have 15 days to provide comments to WDFW to aid it in deciding whether your project qualifies (see below for details).

To QUALIFY for the fish habitat enhancement exemption you must check at least one each from A and B and provide a letter of approval from one of the agencies listed in B. It is highly recommended you discuss your proposal with the local Area Habitat Biologist (AHB) prior to submitting your application.

	ibitat Biologist (AHB) prior to submitting your app	lication.			
A) !	My project (check all that apply):		•		
	Removes a human-made fish passage barriers				
	Restores an croded or unstable stream bank using b				•
	Places woody debris or other in-stream structures th	at benefit n	sturally reproducing	fish stocks	
B) !	My project is approved by (check all that apply):				
	☐WDFW's Salmon Enhancement, or Volunteer Coop	erative Fish	and Wildlife Enhancer	ment Programs	
	The sponsor of a watershed restoration plan as prov	ided in chapt	ter 89.08RCW		
	WDFW, as a department-sponsored fish enhanceme	nt or restora	tion project	·	
	Conservation District, where the project complies w	ith design st	andards established by	the Conservation Commiss	ion
	through interagency agreement with the United States I	ish and Wil	dlife Service and the N	latural Resource Conservati	on
	Service				
	A formal grant program established by the legislatur	e or the Dep	artment of Fish and W	'ildlife for fish habitat enhan	cement
	or restoration (currently the Dept. of Transportation is	amdling gra	nt applications)		
/m 4 minh	entre all the control of the control			la fallanda da comendo do s	eka Inaa
TO APPL	Y for the Exemption, submit two copies of a complete a	spiicanou p	ecrage consisting of the	ne jouowing bocoments to t	and an to
	ent planning department and WDFW and indicate below	waten tocal	i governmeni agency y	rou are senaing your appire	unyn iv
ana wnen	you are sending it.				
Two copi	es of:				
•	This addition to the JARPA				
	A completed JARPA 2009				
v	Plan drawings (no larger than 11 x 17 format)				
•	Letter of approval of your specific project from one of	the agencie	s listed in B		
	•	f., ,	·	on: 5.28-09	
	ing my application to following local government agenc	y:		on: 15 20 0 /	(date)
PLEAS	E NOTE:				
• I	n addition to applying for this streamlined processing, you	need to app	ly for all other applica	ble Federal and State permi	ts
	identified in the JARPA.				
• [(WDFW determines that your project meets the fish habit	at enhancem	sent exemption criteria.	, SEPA and all local govern	ment
	permits and fees are waived. WDFW will process your H				
• J	significant concerns are raised during the 15-day comme	nt period rep	garding adverse impact	s from your project that can	not be
1	addressed through HPA conditions, WDFW may determine	to that the pr	roject does not qualify	for the exemption process.	ſ
,	WDFW makes that decision, you may re-apply to WDFW	, the applica	ble local government,	and any other applicable pe	rmitting
1	agency for approval under the full permitting process. If V	VDFW deter	mines that your projec	t does NOT qualify for the	
	exemption, or if your application is incomplete, you and t	he local gove	ernment planning depa	ntment will be notified.	
			• •		
		•			
Applican	t name: ' N				
		<i></i>			
		1 mane	247-19-11		



2009

WASHINGTON STATE

Joint Aquatic Resources Permit Application (JARPA) Form [help]

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

Part 1-Project Identification

Unique project information that makes it easy to identify. [help]

H-H	AGENCY USE ONLY	• ** ** *
S Army Corps I Engineers is sattle District	Date received:	
	· · · · · · · · · · · · · · · · · · ·	
	Agency reference #:	
	Tax Parcel #(s): RECEIVED	
i	MAY 292009	***********

The project with the read to do it of the ready. [Resp]	HABITAT PROGRAM
1a. Unique Project Identifier Number (UPI #) [help]	
 Don't have one yet? Get one at http://www.epermitting.wa.gov or call the Wa at (800) 917-0043. 	ashington Governor's Office of Regulatory Assistance
790847-09-01	
1b. Project Name (Examples: Smith's Dock or Seabrook Lane Development) [h	elp]
Bruton Fish Passage Project	

Part 2-Applicant

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

2a.	Name (Last, Fir	st, Middle) and Organization	On (if applicable)			V. V
ī						************
2b.	Mailing Addre	SS (Street or PO Box)			· -	· · · · · · · · · · · · · · · · · · ·
2c.	City, State, Zip)				
	•				, , , , , , , , , , , , , , , , , , ,	
2d.	Phone (1)	2e. Phone (2)	2f. Fax	2g. E-mail		
I						

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]

За.	3a. Name (Last, First, Middle) and Organization (if applicable)						
3b.	Mailing Addre	ess (Street or PO Box)					
			:				
3с.	City, State, Zi	p .					
3d.	Phone (1)	3e. Phone (2)	3f. Fax	3g. E-mail			

Pai	rt 4-Property O	wner(s) [help]			
Con	tact information for p	eople or organizations	owning the property(ie	s) where the	project will occur. [help]
	Same as applicant. (Skip to Part 5.)			
F	Repair or maintenand	ce activities on existing i	rights-of-way or easem	nents. (Skip i	to Part 5.)
	There are multiple pro additional property ov		te the section below a	nd use JARP	PA Attachment A for each
4a.	Name (Last, First, Mid	ldle) and Organization (if	applicable)		
					,
4b.	. Mailing Address (St	reet or PO Box)	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
4c.	City, State, Zip				

4d.	Phone (1)	4e. Phone (2)	4f. Fax	4g. E-ma	ail
		()	()		
Par	t 5-Project Loc	ation(s)	·		
		out the property or prop	perties where the proje	ect will occur.	[heln]
			· .		te the section below and use
	ARPA Attachment B	for each additional pro	perty.	no). Complet	e the section below and use
5a.	Street Address (Car	nnot be a PO Box. If there is	no address, provide other I	location information	tion in 5n.) [help]
		,			
5b.	. City, State, Zip (If the	e project is not in a city or to	wn, provide the name of the	e nearest city or	town.) [help]
 	orp, WA 98946				
5c.	County [help]				
Kitti	itas				
5d.	Provide the section	, township, and range fe	or the project location.		
	1/4 Section	Section	Townsh	nip	Range
NE		5	18 N		17 E
5e.	Provide the latitude	and longitude of the pro	oject location. [help]		
	• Example: 47.03922	N lat. / -122.89142 W long			
47.0	0821°N; -120.7339°\	N			
5f.	List the tax parcel nu	umber(s) for the project	location. [help]	: '	
	The local county asset	essor's office can provide thi	is information.		
639	133, 20407, 079133,	139133			
5g.	Indicate the type of	ownership of the prope	rty. (Check all that apply.)) [help]	9
	State Owned Aq				sement for maintenance
	Other publicly ov	wned (federal, state, county	, city, special districts like s	schools, ports, e	tc.)

Name	Mailing Address	Tax Parcel # (if known
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- · · · - ·		
		A CONTRACTOR OF THE CONTRACTOR
7		
w		
Is any part of the project are	ea within a 100-year flood plain? [help]	
⊠Yes □No □Do	on't know	

The project site has very little vegetation as it is confined between a county road bridge, the Interstate 90 bridges, and the dam with associated diversion screening and passage infrastructure. The left bank does have some riparian shrubs and trees that provide limited habitat and shade for the stream bed. The existing dam is about 5 feet tall and with dam boards on top can extend to over 6 feet tall. Sediment has filled the channel upstream of the dam to nearly the top of the crest, but a large scour pool exists on the downstream side of the apron. This scour pool has degraded the bed such that the opening to the downstream side of the fishway is no longer accessible to most fish at most flows; creating a fish passage barrier.

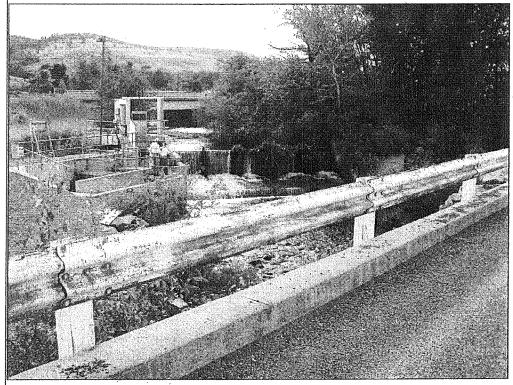


Figure 1. This photo was taken from the Taneum Road bridge, looking upstream at Bruton Dam and associated fish screen and fishway. The westbound bridge of Interstate 90 is also shown, upstream of the Bruton Diversion (about 250 feet from the Taneum Road bridge).

Yakima Tributary Access and Habitat Program (YTAHP) fish monitoring at the Bruton site show that juvenile anadromous fish (coho and Chinook salmon) are using the habitat available downstream of Bruton Dam. The number of juvenile anadromous fish upstream of Bruton Dam is significantly reduced.

Adult salmonids are also present in Taneum Creek and have been documented near Bruton Dam. Radio tagged steelhead have been delayed downstream of Bruton Dam until the flows were sufficient to provide passage in the fishway. Coho salmon have been reseeded in the upper watershed and the first returning adults are expected in 2010. Taneum Creek has also been identified as a potential stream for Bull Trout recovery due to the high quality habitat; although there are no known bull trout populations in the watershed currently.

5k. Describe how the property is currently used. [help]

Bruton Dam was constructed at the time Interstate 90 was built because the original diversion check structure for the Bruton ditch was demolished to accommodate I-90. The Bureau of Reclamation (BOR) is responsible to ensure that the fish passage facilities at this dam do not impede the Bruton water users from getting their irrigation water from Taneum Creek. The BOR maintains the existing fishway and fish screen (see attached agreement from 1988), but the maintenance of the ditch is the responsibility of the water users (there are 5 water users). The water users have stock water rights year round and irrigation water from April 1 to October 15 each year. The irrigated parcels are in pasture grass and hay production.

51. Describe how the adjacent properties are currently used. [help]

Interstate 90 forms the upstream boundary of the project limits and Taneum Road crosses the proposed roughened channel near the downstream limits of the project area. Rural homes, associated out buildings, and irrigated fields and livestock are located near the project area.

5m. Describe the structures (above and below ground) on the property, including their purpose(s). [help]

The westbound I-90 bridge forms the upstream boundary of the project area. Bruton dam, fishway, and fish screen are located about 140 feet downstream of the freeway bridge. Taneum Road bridge is approximately 110 feet downstream of the existing Bruton Dam. Bruton ditch flows east, starting at the point of diversion, just upstream of the dam. Underground power lines connect a pole near Taneum Road, across the parking area to the fish screen at the head end of the ditch. A natural gas pipeline is located about 80 feet downstream of Taneum Road bridge, and will not be impacted by this project.

5n. Provide driving directions from the closest highway to the project location, and attach a map. [help]

From Interstate 90, take exit 101 and head south for about 0.6 miles, away from Thorp. Turn right (northwest) onto Thorp Cemetery Road and follow it (parallels I-90) for about 5.5 miles; you will cross Taneum Creek. Turn right (east) on Thorp Prairie/Taneum Road and cross over I-90 for about 0.25 miles. Turn right (southeast) onto E. Taneum Road for 0.4 miles. You will cross Taneum Creek again and the parking area will be on your right, immediately after crossing Taneum Creek. Bruton Dam is located at Taneum Creek River Mile 1.2.

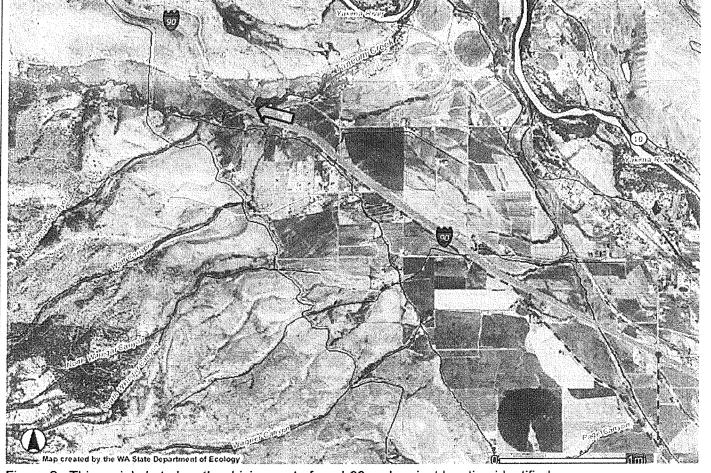


Figure 2. This aerial photo has the driving route from I-90 and project location identified.

Part 6-Project Description

6a. Summarize the overall project. You can provide more detail in 6d. [help]

Taneum Creek is a valuable tributary to the Upper Yakima River with excellent habitat in its headwaters. Taneum Creek is a known steelhead spawning stream and has been identified as a potential bull trout recovery area because of its quality upstream habitat. The proposed project will remove Bruton Dam, a major fish passage barrier to more than 30 miles of habitat, and the related diversion infrastructure. A roughened channel will be constructed below I-90, to about 65 feet downstream of the Taneum Road Bridge and just upstream of the existing gas pipeline crossing. The irrigation water for the Bruton Ditch water users will likely be supplied to them via a pipeline in a separate and somewhat related project proposed by the Bureau of Reclamation (see attached report). The water users' adjudicated stock water right will still be diverted from the existing point of diversion. An instream stock water delivery system will be incorporated into the upstream portion of the roughened channel following guidance from NMFS and WDFW.

Upon project completion, the roughened channel will provide passage for all life stages of fishes and other aquatic organisms. The Upper Taneum Watershed is largely in public ownership and provides excellent fish and wildlife habitat. Radio-tagged steelhead have been tracked into Taneum Creek (Hockersmith et al 1995; Karp et al 2005; Karp et al 2009) to spawn. In 2004, three of seven tagged fish held for over a week below Bruton dam (Karp et al 2005), apparently waiting for adequate flows so that they could move upstream through the fishway to spawn. The Yakama Nation and WDFW have been reintroducing coho salmon to the watershed and adults are expected to return to spawn in fall of 2010. Providing fish passage at Bruton Dam will ensure these returning fish are able to access the

entire watershed.	:	2	
6b. Indicate the project cate	egory. (Check all that apply.) [help]	
Commercial	Residential 🔲 Instituti	onal 🔲 Transportation	Recreational
☐ Maintenance	Environmental Enhanceme	ent	
6c. Indicate the major elem	ents of your project. (Check	call that apply.) [help]	
☐ Aquaculture	☐ Culvert	☐ Float	Road
☐ Bank Stabilization	□ Dam / Weir	☐ Geotechnical Survey	☐ Scientific Measurement
☐ Boat House	☐ Dike / Levee / Jetty	☐ Land Clearing	Device
☐ Boat Launch	☐ Ditch	☐ Marina / Moorage	☐ Stairs
☐ Boat Lift	☐ Dock / Pier	☐ Mining	Stormwater facility
☐ Bridge	☐ Dredging	Outfall Structure	Swimming Pool
☐ Bulkhead	Fence	☐ Piling	Utility Line
Buoy	☐ Ferry Terminal	☐ Retaining Wall (upland)	
	⊠ Fishway		
•			
Other:			

- **6d.** Describe how you plan to construct each project element checked in 6c. 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 flood plain.

The entire project will be within the 100 year floodplain of Taneum Creek. Work will occur in 4 main phases, as described below.

<u>Timing:</u> Staging of equipment and materials for implementation could occur as soon as August 2009. Instream work may begin September 1 and will be completed by November 15. In total, the project is expected to take approximately 6 weeks to complete.

Staging and Equipment Limitations: Materials and equipment will be staged in the existing parking area adjacent to the diversion. A tracked excavator or similar piece of equipment will be used for most instream work. All equipment will be washed prior to entering the project area such that is clean of debris and petroleum products. Equipment will be inspected daily for leaks and will have fish friendly fluids in the hydraulic lines for all in channel work on this site. For all phases of construction that require pumping, an adequately sized Pump-Rite screen will be attached to ensure fish protection.

Phase 1:

- The entrance and exit to the fish ladder will be blocked using sandbags and plastic sheeting. Each pool within the fish ladder will be pumped out and fish will be salvaged using dip nets and buckets. Fish will be carefully transported to a suitable downstream location and released.
- A three foot tall sandbag and plastic sheeting dam will be constructed across the Bruton Dam crest and a 24" diameter pipe will be installed to bypass Taneum Creek around the work area (as shown in design drawings). The bypass pipe outlet will be downstream of the downstream limits of the project area. It will provide downstream passage, but upstream passage through the project area will be limited during implementation.
- While gradually dewatering this reach of Taneum Creek, fish salvage will follow NMFS guidelines and the Corps programmatic BO and will be lead by WDFW biologists. Fish will be released downstream of the project area in a suitable location.
- During excavation and grading of this reach for the roughened channel, existing streambed materials will be separated and stockpiled on site for incorporation into the final design. A layer (0.5' thick) of quarry spalls will be placed over the entire excavated area for the roughened channel. A 5' thick layer of 3-7' angular rocks will be randomly distributed over the quarry spalls. Gravel, sand, and fine material will be used to fill the voids between the large rocks. This material will be sluiced and/or rodded into the voids to ensure the channel seals adequately and water will not flow subsurface. Native streambed gravels and cobbles will be placed over the completed roughened channel at an approximate depth of 1 foot. A meander pattern will be constructed into the channel to ensure passage at low flow conditions.
- During this phase of construction the bottom and left bank of the roughened channel will be completed and the fishway will be removed, while avoiding the creek bypass along the north bank. Once this portion is complete, the lowest portion of the existing bypass pipe will be removed to create a new bypass pipe along the southern bank, beginning at the crest of Bruton Dam. The sandbag dam will be reconfigured to divert all flows into the new bypass reach and the flows will water up the new roughened channel along the south bank. The creek bypass along the north bank will be deconstructed.

Phase 2:

- Sandbags will be placed as necessary from the Eastbound I-90 Bridge, downstream to the lower limits of the project area to keep flowing water away from the north bank. Fish salvage will occur in all newly dewatered areas following NMFS protocol and the protocol described in the Corps Programmatic BO and will be lead by WDFW biologists.
- The north bank of the roughened channel will be constructed throughout the entire project length as described above. This will include demolition of the left bank wing wall and part of the reinforced

concrete dam (sandbags will be used to keep the flow away from work areas).

- A 24" PVC pipe will be buried behind the north bank slope to be used as the Phase 3 creek bypass.
- The north bank cleanout for the stock water delivery system will be constructed during phase 2. The
 pipes will be laid and flange installed ready for connection with the actual screen which will be installed in
 phase 3.

Phase 3:

- A 3' tall sandbag dam will span Taneum Creek under the I-90 bridges. A pump with a Pump Rite screen
 connected to a 4" diameter hose will deliver water to the Bruton Ditch during construction so as not to
 impede the delivery of their adjudicated irrigation water rights.
- The remaining creek flows will be diverted through the buried 24" pipe along the north bank. As this reach of the creek is gradually dewatered, fish salvage following NMFS protocol and the Corps Programmatic BO and will be lead by WDFW biologists.
- The remaining portions of reinforced concrete and other structures associated with Bruton Dam will be removed. All nonnative materials will be recycled if possible or disposed of in a suitable offsite location, outside of the 100 year floodplain.
- The stock water delivery system will be installed toward the top of the project area, just downstream of the I-90 westbound bridge. A 1' gap will be left between the 3-7' rocks in the roughened channel. The intake screen with 0.117 square inch screen openings will be installed with pea gravel all around it (1' wide by 5' deep). A top screen will be anchored with 8" thick concrete in specific locations (based on site conditions) to ensure pea gravel is retained around the intake pipe (see design drawings).
- The south bank cleanout and connecting pipes will be plumbed such that the remainder of the stock water diversion can be completed on dry land within the existing parking area.
- Construct the remaining portions of the roughened channel in the same manner as described above in Phase 1, ensuring continuity between construction phases.
- Reconfigure the sandbags to isolate the phase 3 PVC pipe from creek flow and slowly rewater the entire roughened channel project area; ensure that flow does not go subsurface
- Pull the PVC bypass pipes from the channel banks and plug the holes with suitable size rocks.

Phase 4:

• Complete construction of stock water flow meter, settling basin, and cleanout valves such that stock water (0.1 cfs year round) can be delivered to Bruton Ditch on a year round basis.

<u>Site Restoration:</u> Upon project completion, all areas will be cleaned up, soils de-compacted and replanted with native vegetation where it is appropriate. Riparian vegetation will be planted along the banks and in disturbed areas using local cuttings as much as possible. Erosion control seed mix will be planted in disturbed areas and weed free straw mulch (or equivalent) will be used to minimize short term erosion.

Taneum Creek is sediment starved in the lower reaches because the habitat has been degraded such that there is very little structure to hold substrate in place. Native alluvial material that is excavated from the creek bed will be incorporated into the roughened channel design as much as possible. Approximately 1 foot of streambed gravels and cobbles will be spread over the completed roughened channel. This material is expected to move downstream during high flows and be replaced with sediment from upstream. If excess streambed gravels remain upon project completion, they will be stockpiled on site and added to the creek during high flow events such that gravel will not be mined from the already sediment starved lower reaches of Taneum Creek.

Monitoring: The design engineer has been hired to conduct the construction oversight for this project. This will help to ensure the roughened channel is built as designed and that the voids are properly sealed with fine material. The roughened channel will be monitored over time to ensure it is functioning as designed to provide fish passage and to prevent scour around the Interstate 90 and Taneum Road bridge abutments. YTAHP conducts pre and post project electrofishing surveys around Bruton dam and the YKFP program monitors the upper watershed fairly intensively. We have a good data set of fish use pre-project implementation and these

efforts will continue after this project is implemented.
The stock water delivery system will be operated and maintained by the BOR (per the 1988 agreement) to ensure that the Bruton water users' adjudicated stock water is delivered to the ditch. It will be checked 2-3 times per week on a year round basis. The system will be back-flushed up to two times per year to prevent the gravel layer from plugging up. This is considered to be a routine maintenance action. If this is not adequate and the
infiltration system fails, the structure will be abandoned and there will be no instream excavation to repair or replace it. The BOR has committed to an alternate stock water delivery system if the proposed system plugs and is not cleared by using the proposed back flush system.
6e. What are the 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: _August 1, 2009
6f. Describe the purpose of the work and why you want or need to perform it. [help]
The purpose of this project is to provide fish passage to the quality habitat in the Upper Taneum Watershed, especially for anadromous salmonids but resident fish and other aquatic organisms will benefit as well. The fishway associated with Bruton Dam is not compliant with fish passage criteria during most flows and has impeded upstream steelhead migrations in the past. Effectively, Bruton Dam has blocked access to more than 30 miles of quality salmonid habitat in the upper watershed. Taneum Creek has been identified as a priority watershed in the Subbasin Plan, Steelhead Recovery Plan and the draft Bull Trout Recovery Plan. Regional biologists recognize the potential for salmonid production in the Taneum Watershed and there is broad support for the proposed project. Not only will the proposed project provide enhanced fish passage for juvenile and adult salmonids, but the roughened channel approach will provide ecological connectivity for all aquatic species at all life stages. The Kittitas Conservation Trust is proposing this project through the YTAHP and has received grant funding to implement this proposed project. It is critical that the work is preformed in 2009; prior to grant funding drying up and prior to adult coho salmon returning to spawn in upper Taneum Creek in 2010. While the focus of this project is on fish passage, it will lead to ecosystem restoration. Anadromous salmonids are keystone species in this watershed. Adult coho salmon were reintroduced and forced to spawn in the upper watershed in 2007 and 2008. For the first time in decades, black bear and river otter were documented feeding on salmon carcasses. The marine derived nutrients from salmon restoration projects such as the Bruton fish passage project will benefit the entire ecosystem.
6g. Fair market value of the project, including materials, labor, machine rentals, etc. [help]
\$550,000
6h. Will any portion of the project receive federal funding? [help]
If yes, list each agency providing funds.
⊠ Yes □ No □ Don't know
NMFS thru SRFB, BPA
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.)
7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]
⊠ Not applicable

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7b. Will the project	impact wetlands? [nelp]			
☐ Yes ☐ No	Don't know				
7c. Will the project i	impact wetland buffe	ers? [help]			
☐ Yes ☐ No	Don't know				
7d. Has a wetland o		• •			
 If yes, submit th 	e report, including data s	sheets, with the JARPA pa	ckage.		
☐ Yes ☐ No	·		· · · · · · · · · · · · · · · · · · ·		
7e. Have the wetlan	ds been rated using	the Western Washir	ngton or Easten	n Washington We	etland Rating
System? [help]	o watland rating forms a	nd figures with the JARPA) nackana		
☐ Yes ☐ No		ila ilgales with the DANE	package.		
7f. Have you prepar		to compensate for a	ny adverse imn	acts to wetlands	2 [heln]
	e plan with the JARPA p	•	ny adverse mp	acts to wettaling	: [rieib]
☐ Yes ☐ No					
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7g. Use the table be of the impact; an compensatory m	elow to list the type and the type and amo	and rating of each we unt of compensatory similar table, you ma	mitigation prop	osed. If you are	submitting a
7g. Use the table be of the impact; an compensatory minformation in the Activity causing impact (fill, drain, excavate,	elow to list the type and the type and amo	and rating of each we unt of compensatory similar table, you ma	mitigation prop	osed. If you are	submitting a
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7g. Use the table be of the impact; an compensatory minformation in the Activity causing impact (fill, drain, excavate, flood, etc.) 1 Ecology wetland categor rating forms with the JA	elow to list the type and the type and amo nitigation plan with a e mitigation plan. [h Wetland type and rating category 1 y based on current Wes RPA package.	and rating of each we unt of compensatory similar table, you maelp Impact area (sq. ft. or acres)	mitigation prop ly simply state (Duration of impact ² m Washington We	osed. If you are below) where we Proposed mitigation type ³	Wetland mitigation area (sq. ft. or acres)
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7j. Summarize what the approach was used	compensatory n	nitigation plar In. [help]	n is meant to acco	mplish, and describe	how a watershed
					
					·
					• •
		•			
		·			
'art 8–Waterbodie	s (other than	wetlands	s): Impacts an	nd Mitigation	
n Part 8, "waterbodies" re	efers to non-wetla	and waterbod	ies. (See Part 7 f	or information related	to wetlands.) [help
Check here if there are	e waterbodies on	or adjacent t	o the project area	. (If there are none, s	kip to Part 9.)
8a. Describe how the pa	roject is designed	to avoid and	i minimize advers	e impacts to the aqua	tic environment.
☐ Not applicable		<u> </u>			
The proposed project ha	a haan daalamad	to antimiza a	account for all agu	ratio arranjama, pravi	do quitable babite
planned for a time of yea there are not likely to be conditions; reducing the The project is planned in possible.	spawning salmor disturbance nece	nids in the pro essary to ensi	oject area. The prure that the projec	roject is planned to oc it work area is effectiv	cur during low flow ely dewatered.
Dewatering the work are turbidity associated with minimize turbidity associ	construction. All	fines associa	ated with this proje		
Bb. Will your project imp		· · · · · · · · · · · · · · · · · · ·		ly? [help]	
⊠ Yes □ No					
8c. Summarize impact(s			- 1 T		1 54
Activity causing impact (clear, dredge, fill, pile drive, etc.)	Waterbody name	Impact location ¹	Duration of impact ²	Amount of material to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Clearing	Taneum	North	Temporary		200 linear feet
_	Creek	Bank	until		
			vegetation re- establishes		·
Fill-sandbags	Taneum Creek	In Channel	Temporary	~50 bags	350 linear feet, phased
Excavate/Dredge	Taneum	In	Permanent	~5000 cy native	350 linear feet
	Creek	channel		alluvium, riprap,	
		and		and reinforced	
Fill	Taneum	banks In	Permanent	concrete ~4000 cy native	350 linear feet
LIII	raneum	in	remanent	∣ ~4∪∪∪ cy native	j jou iinear ieet

			Marine and the second s			
	Creek	channel		alluvium		
		and		~440 tons quarry	• •	
		banks		spalls	'	
				~3600 tons large		
				angular rock		
			• .	~6 cy pea gravel		
•	•			<1 cy concrete		
Indicate whether the impact w waterbody and indicate whet Indicate the time (in months of	ther the impact will o	occur within the	100-year flood plain.			
applicable. 8d. 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.						
☐ Yes ☐ No ⊠	Not applicable		/			
8e. Summarize what the approach was used to figure already complete.	design the plai	n.	All Control of the Co	•	a watershed	
This is a habitat enhancer upper Taneum Watershed habitat. This project will pbarrier about 1 mile upstre implementation is planned implemented throughout the statement of the	I is mostly within rovide fish pass eam. Designs to I for 2010. Othe	public owne age for all life improve fish r habitat rest	ership and has hig e stages and all sp n passage at that so oration actions co	h quality salmonid spa pecies. There is one s site are being develope intinue to be develope	awning and rearing smaller, seasonal ed and	
8f. For all activities identify you will use, and how	• • • • • • • • • • • • • • • • • • • •		and the second s		(in cubic yards)	

<u>Clearing:</u> Riparian vegetation will be cleared and grubbed along the north bank between I-90 and Taneum Road Bridge. Existing trees and shrubs will be salvaged as much as possible during implementation. There are a few willows along the south bank that will also likely be removed during implementation.

<u>Fill-sandbags</u>: Up to 50 industrial sized sandbags (about 1 cubic yard each) may be temporarily placed in Taneum Creek at any given time during implementation. These will be used to temporarily dewater sections of the creek where work will occur. Sand will be obtained from local quarries and/or the native alluvium will be used to fill some of the bags. Sandbag material may be incorporated into the roughened channel construction to fill the voids

<u>Excavate/Dredge:</u> Approximately 5,000 cubic yards of streambed material (native alluvium, existing riprap, and reinforced concrete) will be removed from the channel bed and banks during implementation. Streambed material and riprap will be separated and stockpiled for incorporation into the roughened channel design.

<u>Fill:</u> Approximately 4,000 cubic yards of native streambed materials will be incorporated back into the design of the roughened channel, either in fine material to fill the voids of the large angular rock, or as gravels and cobbles on top of the constructed channel. If there is excess fine material, it may be hauled off site to a suitable disposal site, but gravels and cobbles from the streambed will be incorporated into the design. All native material will be washed into the channel to minimize turbidity upon channel rewatering.

About 440 tons of quarry spalls will be trucked in from a local source to form the base of the roughened channel.

Approximately 3600 tons of large angular rock (3-7') will be incorporated into the roughened channel design. The fine material from channel excavation will be used to fill the voids between the boulders and help seal the bed.

About 6 cubic yards of pea gravel will be placed in the channel to bed the stock water delivery screen. Less than 1 cubic yard of concrete will be used to help seal in the gravels and maintain integrity of the roughened channel around the fish screen.

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

A tracked excavator, or similar piece of equipment, will be used for excavation of the streambed materials. Work will occur from the banks and in dewatered sections as much as possible to minimize in-water work. Excavated material will be sorted and stored on site for use in the reconstructed channel. Concrete, metal and other debris will be hauled offsite and disposed of in a suitable location; material will be recycled if possible.

Part 9-Additional Information

Any additional information you can provide helps the reviewer(s) understand your project.

Agency Name	Contact Name	Phone	Most Recent Date of Contact
Army Corps of Engineers			April 8, 2009
NMFS			May 19, 2009
		· · ·	May 13, 2009
USFWS			May 19, 2009

WDFW	April 28, 2009				
Technical Work Group on April 14, 2009—Attendee List Included in Application Packet					
Technical Work Group on May 13, 2009—Attendee Lis	included in Application Packet				
9b. Are any of the wetlands or waterbodies identified in Ecology's 303(d) List? [help]	n Part 7 or Part 8 on the Washington Department of				
If yes, list the parameter(s) below.					
 If you don't know, use Washington Department of Ecology http://www.ecy.wa.gov/programs/wq/303d/. 	s Water Quality Assessment tools at:				
⊠ Yes □ No					
Taneum Creek-Temperature, Instream Flow, Fecal Col	form, Dissolved Oxygen				
9c. What U.S. Geological Survey Hydrological Unit Co	de (HUC) is the project in? [help]				
 Go to http://cfpub.epa.gov/surf/locate/index.cfm to help ide 	ntify the HUC.				
17030001					
9d. What Water Resource Inventory Area Number (WI	RIA #) is the project in? [help]				
 Go to http://www.ecy.wa.gov/services/gis/maps/wria/wria.h 	tm to find the WRIA#.				
39					

9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [hel
Go to http://www.ecy.wa.gov/programs/wq/swqs/criteria.html for the standards.
⊠ Yes □ No □ Not applicable
9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment de
If you don't know, contact the local planning department.
For more information, go to: http://www.ecy.wa.gov/programs/sea/sma/laws-rules/173-26/211 designations.html.
☑ Rural ☐ Urban ☐ Natural ☐ Aquatic ☐ Conservancy ☐ Other
⁹ g. What is the Washington Department of Natural Resources Water Type? [help]
Go to http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx for the Forest Practices
⊠S ∏F ∏Np ∏Ns
⊠S ∏F ∏Np ∏Ns
9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual?
If no, provide the name of the manual your project is designed to meet.
⊠ Yes □ No
Name of manual: Stormwater Management Manual for Eastern Washington
9i. If you know what the property was used for in the past, describe below. [help]
The surrounding property has been used for agriculture and rural residences in the past. The freeway was constructe been irrigated using Taneum Creek water for several decades.
9j. Has a cultural resource (archaeological) survey been performed on the project area? [help]
If yes, attach it to your JARPA package.
☐ Yes ☐ No, BPA made a NE determination based on existing disturbance in the area; Letter of Concurrence
9k. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project are:
Middle Columbia River Steelhead
Middle Columbia River Steelhead Columbia River Bull Trout
Columbia River Bull Trout
Columbia River Bull Trout Ute Ladies'-tresses
Columbia River Bull Trout Ute Ladies'-tresses 91. Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species

Part 10-Identify the Permits You Are Applying For

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

- Online Project Questionnaire at http://apps.ecy.wa.gov/opas/.
- Governor's Office of Regulatory Assistance at (800) 917-0043 or help@ora.wa.gov.

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.				
☐ 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.)				
 Submit the Fish Habitat Enhancement Project form with this application. The form can be found at http://www.epermitting.wa.gov/Portals/ JarpaResourceCenter/images/default/fishenhancement.doc 				
☐ This project is exempt (choose type of exemption below).				
☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?				
Other:				
SEPA is pre-empted by federal law. [help]				
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) (p) Fish Passage/Habitat Enhancement				
Other city/county permits:				
☑ Floodplain Development Permit ☑ Critical Areas Ordinance				
STATE GOVERNMENT				
STATE GOVERNMENT Washington Department of Fish and Wildlife:				
STATE GOVERNMENT Washington Department of Fish and Wildlife: Hydraulic Project Approval (HPA) Fish Habitat Enhancement Exemption				
STATE GOVERNMENT Washington Department of Fish and Wildlife: Hydraulic Project Approval (HPA) Fish Habitat Enhancement Exemption Washington Department of Ecology:				
STATE GOVERNMENT Washington Department of Fish and Wildlife: ☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption Washington Department of Ecology: ☐ Section 401 Water Quality Certification				
STATE GOVERNMENT Washington Department of Fish and Wildlife: ☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption Washington Department of Ecology: ☐ Section 401 Water Quality Certification Washington Department of Natural Resources:				
STATE GOVERNMENT Washington Department of Fish and Wildlife: ☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption Washington Department of Ecology: ☐ Section 401 Water Quality Certification Washington Department of Natural Resources: ☐ Aquatic Resources Use Authorization				
STATE GOVERNMENT Washington Department of Fish and Wildlife: ☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption Washington Department of Ecology: ☐ Section 401 Water Quality Certification Washington Department of Natural Resources: ☐ Aquatic Resources Use Authorization FEDERAL GOVERNMENT				
STATE GOVERNMENT Washington Department of Fish and Wildlife: ☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption Washington Department of Ecology: ☐ Section 401 Water Quality Certification Washington Department of Natural Resources: ☐ Aquatic Resources Use Authorization FEDERAL GOVERNMENT United States Department of the Army permits (U.S. Army Corps of Engineers):				

Part 11-Authorizing Signatures

Signatures required before submitting the JARPA package.

11a. Applicant Signature (required) [help]	<u>and and an angle of the second secon</u>
	information provided in this application is true, complete arry out the proposed activities, and I agree to start work
I hereby authorize the agent named in Part 3 of this apparent application (initial)	olication to act on my behalf in matters related to this
By initialing here, I state that I have the authority to grar permitting agencies entering the property where the prorelated to the project (initial)	
	21 man 100
Applicant (Gerth)	26 may 2009 Date
11b. Authorized Agent Signature [help] I certify that to the best of my knowledge and belief, the information certify that I have the authority to carry out the proposed activities ar issued.	nd I agree to start work only after all necessary permits have been
Authorized Agent	Date
11c. Property Owner Signature (if not applicant) [help]	
I consent to the permitting agencies entering the proper or any work. These inspections shall occur at reasonabl landowner.	
(Wiedmeier)	5/27/09
Property Owner	Date
11c. Property Owner Signature (if not applicant) [help]	
The Tropolty Child Signature (if not approant) [top]	
I consent to the permitting agencies entering the propert or any work. These inspections shall occur at reasonable landowner.	
in in the strict is	
(Fischer)	26-May 2009
Property Owner	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 5 years or both.

If you require this document in another format, contact The Governor's Office of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

ORA publication number: ENV-019-09

TANEUM CREEK FISH PASSAGE & BRUTON

DRAWING LIST:

3. SITE PLAN FOR STOCK VATER SYSTEM
4. ROUGHENED CHANNEL PROFILE
5. ROUGHENED CHANNEL SECTIONS
7. ROUGHENED CHANNEL SECTIONS
8. ROUGHENED CHANNEL SECTIONS
9. ROAD DITCH PROFILE & SECTIONS
10. STOCK VATER SYSTEM SECTION & DETAILS
11. STOCK VATER SYSTEM NOTES
12. STOCK VATER SYSTEM NOTES
13. SITE PREPARATION - PHASE 1

PROJECT LOCATION ABOUT 10 MILES NORTHVEST OF ELLENSBURG, WASHINGTON

TANEUM CREEK FISH PASSAGE @ BRUTCH KITTITAS CONSERVATION TRUST PROJECT LOCATION & DRAWING LIST DRAWING I

PROPOSED: Dam removal, construct roughened channel, install fish screen

STATE: WA IN: Taneum Creek NEAR/AT: Thorp COUNTY: Kittias DATE: May 6, 2009 SHEET 10F 10

PURPOSE: Fish Passage DATUM: N/A

NAME

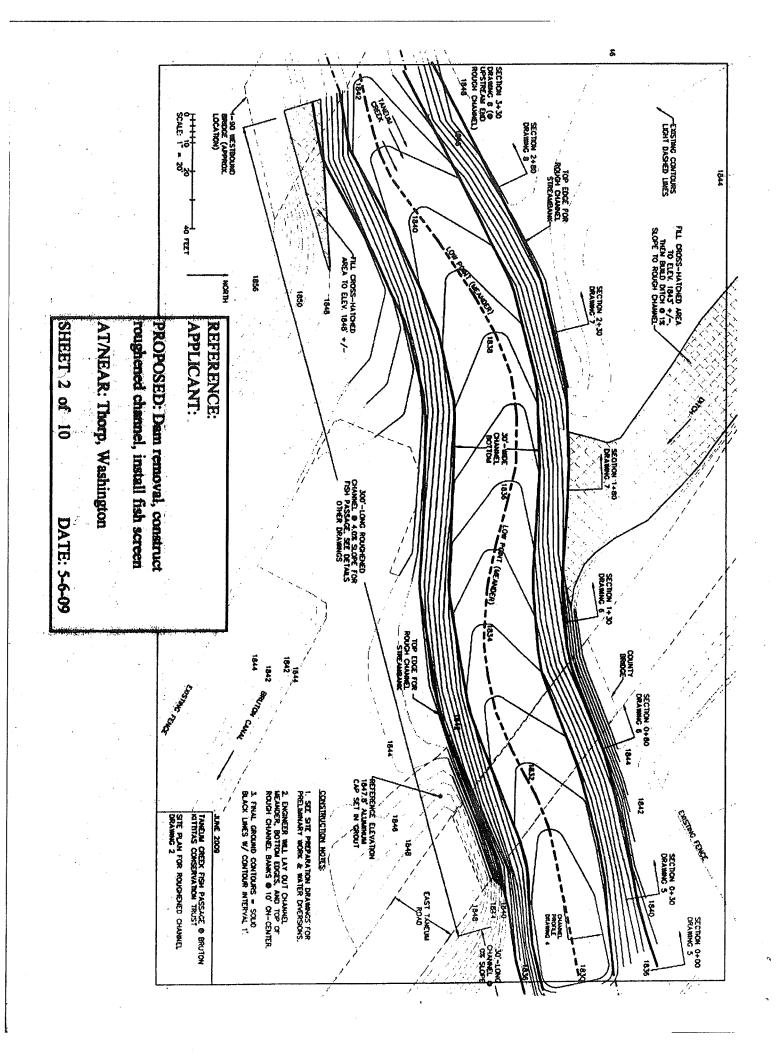
LDCATION FOR THE TANEUM CREEK FISH PASSAGE & BRUTON PROJECT IS ABOUT 10 MILES NORTHYEST OF ELLENSBURG, WASHINGTON, SITE ACCESS IS OFF EAST TANEUM ROAD INTO AN EXISTING PARKING AREA ADJACENT TO BRUTON DAM (U.S. BUREAU OF RECLAMATION DIVERSION DAM ID BRUTON CANAL).

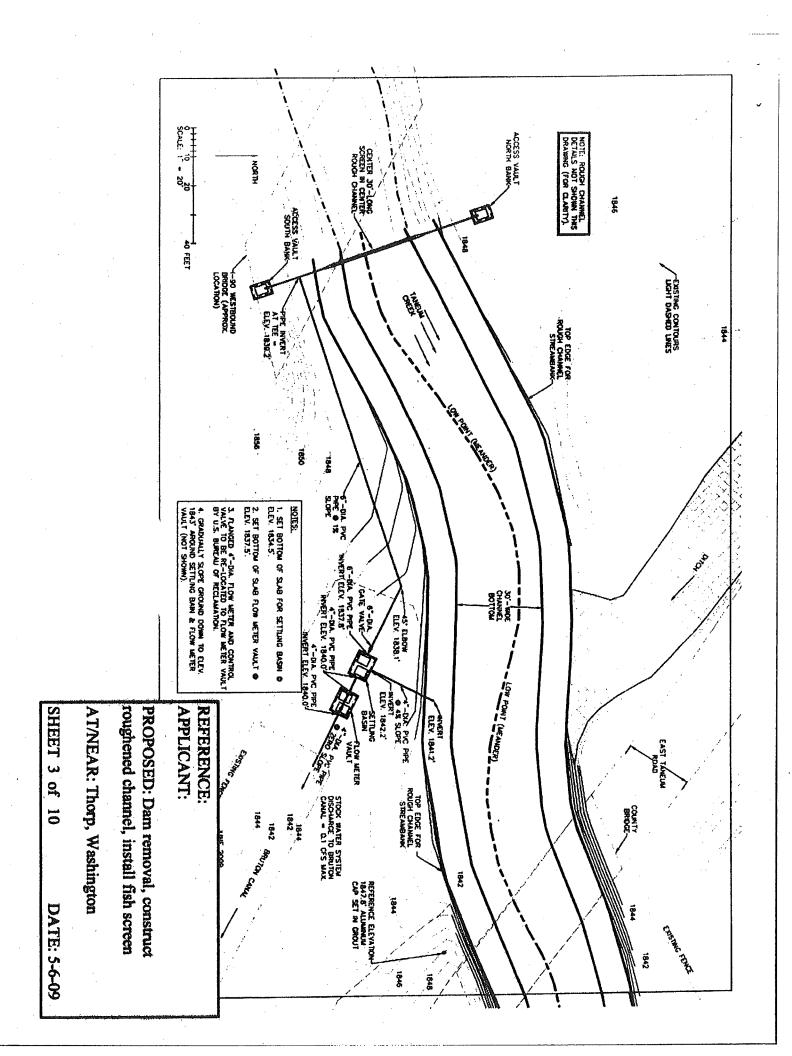
MAP SCALE: 1" # 2,000" (FROM DELIGRME 1999).

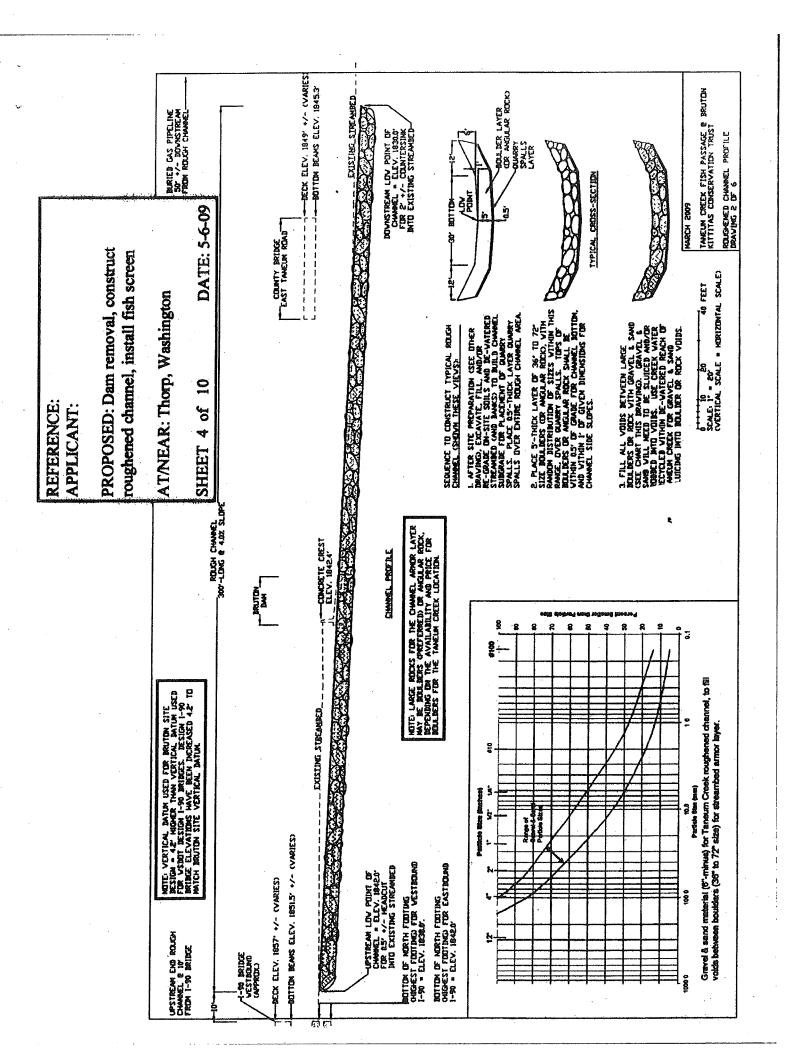
ADJACENT PROPERTY OWNERS:

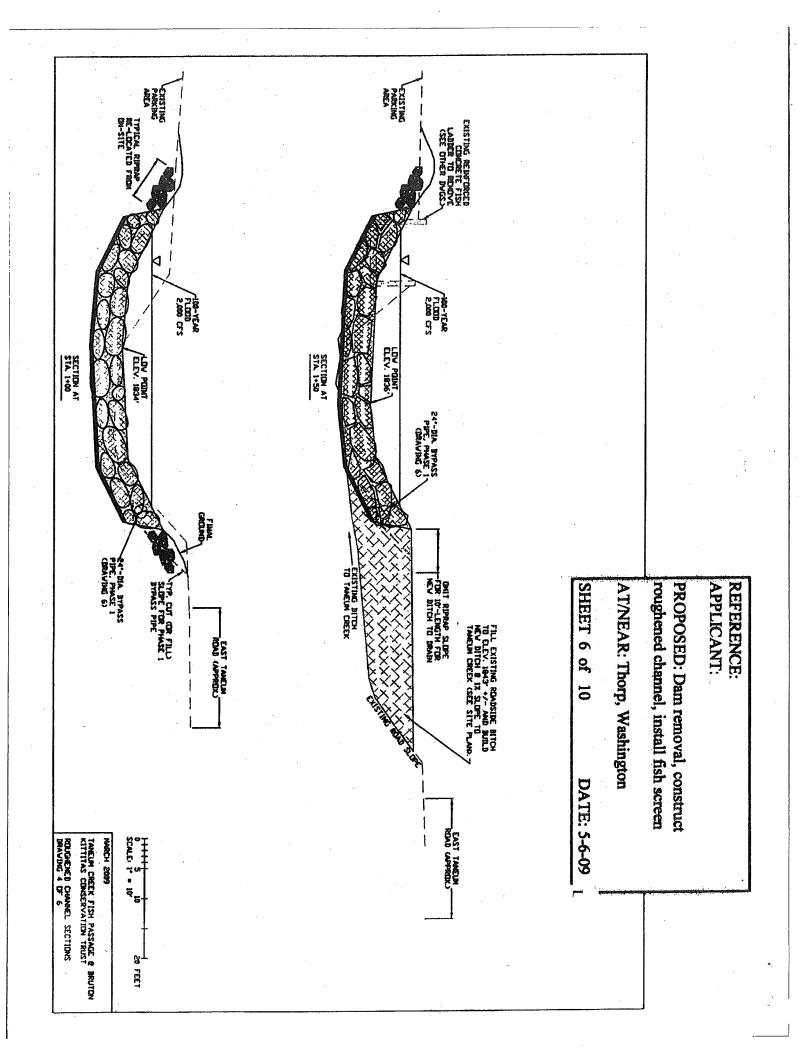
APPLICANT REFERENCE:

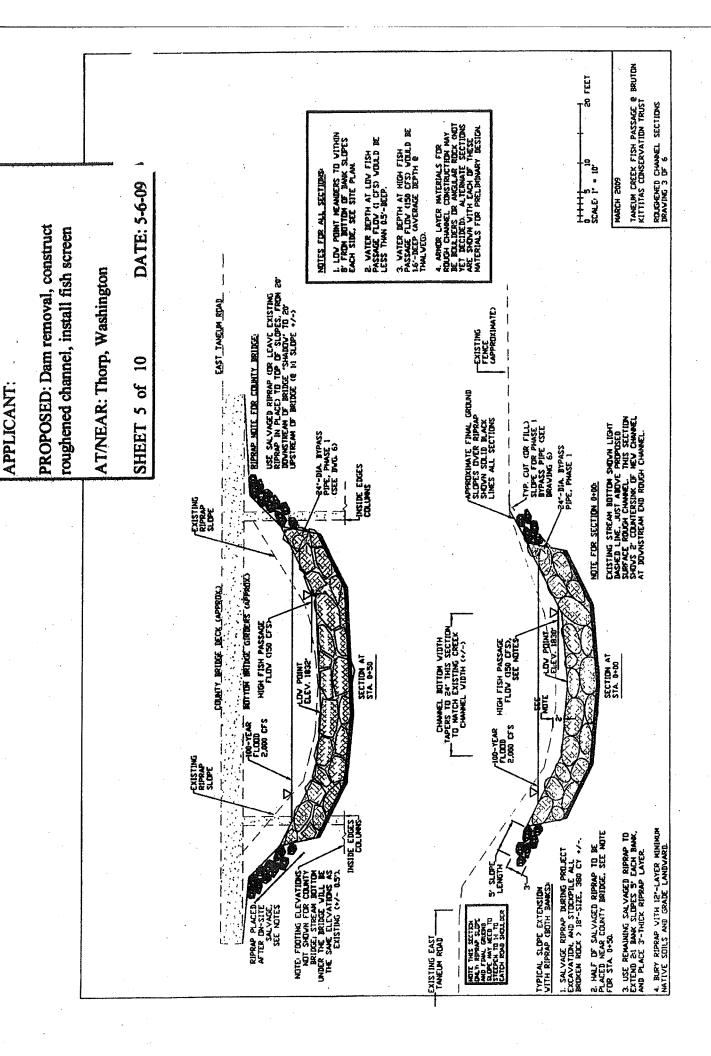
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REFERENCE

