

# HMGP PROJECT SUBAPPLICATION

DR-4481

## PEND OREILLE CONSERVATION DISTRICT

RIVERSIDE AVENUE INFRASTRUCTURE AND ENVIRONMENTAL PROTECTION PROJECT:  
METALINE, WASHINGTON

APPLICATION PREPARED BY: Alex Case-Cohen, MES

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Washington State Emergency Management Division | Hazard Mitigation Assistance Grants

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# Project Application

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## Application Summary

NOTE: THIS SECTION OF THE APPLICATION REVIEWS BASIC ELIGIBILITY REQUIREMENTS. FOR MORE INFORMATION ON ELIGIBILITY PLEASE SEE [HMA Unified Guidance Part III](#) (PAGE 25).

### Applicant Information

Applicant Organization/Agency: [Pend Oreille Conservation District](#)

Type of Organization/Agency: [Special Governmental District](#)

If Private Non-Profit, describe legal status and function: [Click to enter](#)

County: [Pend Oreille - 051](#)

Congressional District: [5th](#) Legislative District: [7th](#)

Federal Tax ID#: [91-1002263](#) UBI #: [600-200-316](#) DON'T KNOW YOUR UBI? LOOK IT UP [here](#).

DUNS#: [806875527](#) WHAT IS A [DUNS Number](#)?

CID #: [530135](#) WHAT IS A [CID Number](#)?

SWV#: [0015041-00](#) DON'T KNOW YOUR Statewide Vender Number? LOOK IT UP [here](#).

Primary Contact for this application (The individual directly involved in overseeing the grant)

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### Mitigation Plan Information

Does the jurisdiction have a current [FEMA-Approved](#) multi-hazard mitigation plan?

Yes  No

Pending Approval – Please explain status: [Click to enter](#)

If yes, what is the title of the plan? [Pend Oreille County Multi-Jurisdiction Hazard Mitigation Plan](#)

FEMA Approval Date: [11/28/2018](#) Expiration Date: [11/28/2023](#)

### Project Funding Information

Was any version of this application previously submitted under another FEMA Program or Funding Opportunity?  Yes  No If yes, explain status: [Click to enter](#)

Does another Federal entity have primary funding authority for this project?

[No](#)

## Project Summary

Project Title: [Riverside Avenue Resiliency Project – Metaline, WA](#)

Project Cost Estimate (*excluding SubMC*): \$ 4,591,225.21

Sub-recipient Management Costs (*SubMC*) Estimate: \$ 229,561.28

Primary hazard the project will mitigate [Critical Infrastructure/Soil Erosion-Stabilization](#)

Benefit-Cost Ratio (from [FEMA's required BCA Tool](#)): 1.049147

Other Benefit Tools (optional): PCB, CRMA, Other BCA Tool, Landslide? [Click to enter](#)

Provide a brief description of the project in a few high-level paragraphs. This should be a short summary, not a full scope of work.

This project aims to stabilize up to 2,400 linear feet of severely eroding shoreline in addition to re-routing at least 700 feet of a wastewater collection main line that currently runs along Riverside Avenue in the town of Metaline, Washington. Currently, the main line is vulnerable to streambank erosion from the Pend Oreille River during high-flow periods (more than 90,000 cubic feet per second, which typically occurs in May and June). Re-routing the main line would increase the climate resiliency of the community, since climate change potentially alters river flows, increases short-term flooding, and creates more concentrated and extreme run-off events as mountain snowpack is replaced by rain. Under such conditions, Riverside Avenue is at risk of a mass sloughing event in which the critical infrastructure could be compromised, structures would be lost, and lives would be put at risk. A failure of the system could lead to untreated sewage entering the Pend Oreille River and the general project area, creating both a human health and environmental hazard that would be costly for the community to address and could have negative impacts to the region. In addition, if a landslide were to take place, significant structure losses, casualties and injury could result. This would prove to be detrimental to the region and would take years to recover economically, socially, and environmentally. To help prevent such an event, we propose to decommission Riverside Avenue; re-slope, stabilize, and replant up to 2,400 feet of moderate to severely eroding shoreline; and reroute the main line that currently services residents along Riverside Avenue.

## Project Background

What problem will be mitigated and what are the current conditions and/or history of the problem?

The project would mitigate several environmental and social problems: severe damage to critical infrastructure and property; potential injuries and loss of life; displacement, disruption of services and inability to access properties; water quality impacts to the Pend Oreille River due to leaked sewage, sedimentation, and the sloughing of other debris (including heavy metals, toxic chemicals, and other polluting materials). The Pend Oreille River below the Boundary Dam Reservoir ranges in flow from less than 5000 cubic feet per second (CSF) to 90,000 cfs during average high flows; however, the highest recorded flow rate was over 130,000 cfs (USGS). What must be noted is this is far less than the 100-year flood capacity, which can reach over 200,000 cfs. This has led to a loss of nearly 10 feet of shoreline, resulting in 64,400 cubic feet (or over 2385 cubic yards) of sediment lost due to erosion since 1996. As explained in an interview with Brian Smiley, a County Commissioner who owns property along Riverside Avenue, and Pete Daggett, the town's mayor, Riverside Avenue landowners used to park their cars on the opposite side of the road. There were once picnic areas. Today, there's less than five feet of bank left on the waterward side of the road. Please view this video for more information: <https://www.youtube.com/watch?v=FRdRd8c2cnE>.

What is the intended outcome of the proposed project and how will it reduce or eliminate the long-term risk of future damage, hardship, loss, or suffering resulting from natural hazards?

This project seeks to reroute the sewer main line; decommission Riverside Avenue; re-slope up to 2,400 feet of shoreline; install a rock toe and hardened structures where necessary; and bioengineer the bank using sediment, coconut coir fabric and live fascines. The intended outcome, therefore, is to eliminate the risk of a mass wasting event or landslide at the project location. This would ensure that residents were protected, structures were not lost, the town's sewer system was not disrupted, that landowners along the project location had access to their homes, that water quality was protected, and that critical infrastructure was not severely damaged.

What members of the community will benefit from the proposed project? Positive and negative effect to the community. Overall demographics. Population. Socioeconomic make up. Number of people who will benefit from the project.

This project ensures that the residents of Metaline, specifically those who live adjacent to the Pend Oreille River, will not lose structures or suffer injury or death due to a landslide; will continue to have access to sanitary services and safe travel; and will prevent the loss of critical infrastructure during high flows and large storm events (up to 100-year). Documentation on community demographics and population can be found in the Environmental Review Attachments folder, under Environmental Justice. It should be noted that the county's Multi-Jurisdiction Hazard Mitigation Plan states that citizens over the age of 65 are more likely to encounter evacuation challenges and/or require access to medical care in the event of an emergency (MJHMP 9-31). The Washington Office of Financial Management states that the percentage of people over the age of 65 in Pend Oreille County is in the range of 22.9-28.5%, higher than the 2020 Washington average of 16.5% (<https://ofm.wa.gov/washington-data-research/statewide-data/washington-trends/population-changes/population-age-mapped-county>). These data indicate the community affected by a catastrophic flood could encounter disproportionate hardship in responding to the disaster. This project attempts to avoid such hardship. Furthermore, the project would improve fish and aquatic habitat in the Pend Oreille River, a significant tributary to the Columbia River. This would indirectly benefit recreationalists who frequent the river for fishing, boating, swimming, kayaking, and other aquatic activities. Additionally, by decommissioning the road, the new riverfront property can become a park, further increasing greenspace and safe access for landowners to the river. Unfortunately, three landowners along Riverside Avenue only have access via the road itself; however, we have included in our plan a reroute so they can ensure property access from side roads and Main Street, the street due west of their property. In summary, this project has a net positive benefit for the residents of Metaline, specifically those that live along the Pend Oreille River.

How is the proposed project related to or consistent with the jurisdiction's FEMA-approved Hazard Mitigation Plan?

The project is related to and consistent with Pend Oreille's Multi-Jurisdiction Hazard Mitigation Plan (MJHMP), last updated in 2018, due to its focus on flooding mitigation and protecting critical infrastructure from flood damage. For example, the entire project area is currently classified as being within the 100-year floodplain (MJHMP page 9-21), indicating that it has at least a 1% chance of being flooded in any given year. However, the mitigation plan states that due to vegetation changes from wildfires and changes in dam structures, flooding risk may have changed (MJHMP page 9-20). Given these factors (removal of vegetation and dams that would have slowed flooding), it seems likely that the flooding risk has increased, not decreased. The plan also states that climate change is likely to result in an

increase in flooding in the river system (MJHMP page 9-27). The main source of flooding in the county is the Pend Oreille River (MJHMP page 9-23), and several major flooding events have occurred on the river system in the past (MJHMP pages 9-24 and 9-25). All of these factors and a review of existing data led the plan's authors to conclude that "the probability for impact from flood throughout the area is highly likely" (MJHMP page 9-37). Furthermore, the Hazard Mitigation Plan identifies various initiatives to help reduce the impact of potential hazards, and the project aligns with Initiative C-12, "Utilize data gathered during risk assessment to identify capital projects that, when modified, increase the resilience of the County's structures and conveyances to damage" (MJHMP page 15-13). These passages illustrate that the project is in line with the hazards and priorities identified by Pend Oreille County in its approved mitigation plan.

**What are the demographics of the population that will be served by this project?**

The town of Metaline has an estimated 2017 population of 170 people (MJHMP page 9-32). There are 15 parcels and 12 landowners that would be directly involved in the project area. See the Environmental Justice section of the Environmental Data section for more information about the community as a whole.

## Scope of Work

**What specific work activities or components are involved in the proposed project, how will each one be implemented, and who will be responsible for completing them?**

This project will occur in two phases. **Phase 1:** Phase 1 consists of all planning, design, and permit procurement for the sewer main line rerouting and bank stabilization. For phase 1, project specific work activities and the responsible parties include: agency correspondence (WDFW USACOE, DOE, FEMA, Pend Oreille County Community Development, etc.) for permit procurement through the contracted natural resource project manager; grant management will be the responsibility of POCD staff and manager(s); project site detailed survey through contracted natural resource project manager; development of plans, specifications and estimate (PS&E), project management (including PS&E development/review), RFP issuing/processing, and contractor hiring, and all required construction management (including administration and inspection) through contracted natural resource project managers. **Phase 2:** This project consists of 2 components: the abandonment and rerouting of the sewer mainline, and the stabilization and restoration of habitat along the streambank. The first component of the project involves the abandonment of the sewer main along Riverside Avenue and the services running to that main. The abandonment will be achieved by cutting and capping the ends of the mains and services and leaving the sewer line and associated services and manholes in place. A new main will be installed on Main Avenue between two existing manholes. The services from the houses along Riverside Ave. will be reconnected to this main. The pipe for the main will be installed by cutting pavement where needed and trenching to the appropriate depth. PVC sewer main will be installed in the trench and connections into the existing manholes will be cut and the pipe inserted into these manholes. Each service will be installed in to the main using PVC pipe and approved connection materials. Site restoration will be achieved by backfilling and compaction of the trench and restoration of surface features including paving, road shoulder materials, and features of private properties disturbed by the installation of sewer services. Work on private property will be completed using temporary construction easement agreements between the Town and the property owner. Across up to 2400 feet of shoreline, re-slope (where possible), install a rock toe and, depending on the severity of the erosion and the proximity to structures, install bioengineered vegetative walls and native tree fascines to stabilize the bank, and plant the bank at required planting spacing with native trees and shrubs. For phase 2, project specific work activities and the responsible parties include: agency correspondence (WDFW USACOE, DOE, FEMA, Pend Oreille

County Community Development, etc.) for permit adherence through the contracted natural resource project manager; grant management will be the responsibility of POCD staff and manager(s); all required construction management (including administration and inspection) through contracted natural resource project managers; implementation of contract Plans and Specifications through licensed construction contractor.

Which tasks will contractors be responsible for, if any? Please explain their expected products and/or deliverables.

Contractors will be responsible for project management for both Phase 1 and Phase 2 of the project. **Phase 1:** We will contract with a full-service engineering and natural resource project management firm (either through our inter-local agreement or through bids) to assist with the facilitation of this project from permit submission to construction completion. **Phase 2:** A professional contractor will be responsible for the project implementation and permit adherence during the construction phase. The construction contractor will procure all required documents and equipment for construction and construct the project per the contract plans and specifications.

Which tasks will the jurisdiction be responsible? Who will manage the project?

As explained above, POCD will be responsible for administering the grant and over-seeing the contracted natural resource project managers. These individuals will be responsible for managing the project from permit submission, through contractor bidding, selection, and project implementation. These contracted projects managers will be responsible for all project tasks except for construction, which will be the responsibility of a qualified contractor

What design specification will this project be built to?

By following the Pend Oreille County Shoreline Bank Stabilization Guide (April 2016), we comply with all federal (US Fish and Wildlife, Army Corps of Engineers), state (Department of Ecology, Department of Fish and Wildlife), and local (Pend Oreille County Community Development) requirements for the implementation of shoreline stabilization/

Will the proposed project use unproven technology?  Yes  No If yes, please explain:

[Click to enter](#)

## Project Timing and Coordination

How will the proposed project be coordinated with neighboring entities (including counties, cities, states, tribal nations, fire, police, public works, utilities, etc.)?

POCD works closely with all partners potentially involved in this project. We maintain frequent communication with the Metaline Town Council; the Pend Oreille County Commissioners; Seattle City Light, who own and manage the dam and flows within this reach of the Pend Oreille River; and the Kalispel Tribe of Indians, who have historic jurisdiction over this property. Due to the small size and remoteness of the town, we have relied on face-to-face interactions between the Metaline Town Council representatives and landowners within the potential project area. To date, all landowners are amenable to the project; however, a letter will be circulated (Attachment A) to all potentially impacted landowners and future stakeholder engagement sessions are scheduled dependent upon receipt of the grant.

Additionally, further correspondence to obtain and adhere to the required permits will occur throughout the life of the project.

Will this project need to be phased? How much design and engineering has been completed? Have any studies been completed or will need to be completed in the future? Are there any challenges that may delay the project (homeowner buy-in, public concerns?)

Due to the complexity of the project, we plan to complete it in phases. Upon receipt of the grant, we will need 12 to 18 months of project planning, coordination, permit acquisition, and bidding. During this time, we will complete all necessary surveys, plans, and permits for both the sewer re-routing and the bank stabilization project. While we currently have site plans and estimates for a small section of the bank stabilization project (Attachment B), these will need to be redone in order to increase the angle of slope of the bank, include bioengineered stabilization techniques, and incorporate the entire streambank at risk to severe erosion (up to 2400 feet).

What might be potential roadblocks or challenges for this project?

There are many challenges we may face; however, by leveraging contracts, we may be able to address these concerns. As a rural agency, it is frequently challenging to find staff, contractor(s) to construct the project, and other support for project implementation. By contracting with experienced natural resource project managers, we foresee fewer issues in this arena. We hope to send out an RFP for a Natural Resource Project Manager to assist with site design (for both projects). The greatest concern, though, is reimbursement from FEMA. As a small agency, our ability to float significant funds is extremely limited. POCD has learned that other conservation districts have, at times, not been reimbursed by FEMA in a timely manner, which has left them deficient of tens of thousands of dollars. We hope that FEMA can reimburse our payments in a timely manner since we do not independently have the capacity to float the high-dollar funds required to implement this project. POCD's concern about this matter is due to its commitment to fiscal responsibility as a small local agency located in a rural area and operating within that area's economic constraints.

Has the proposed project's construction or implementation phase already started?

Not yet.

## Budget and Funding Sources

### Estimated Total Costs

Total Project Costs	\$ Estimate
Pre-Award Costs (Disaster declaration date through grant award date)	\$17,833.00
Project Management Costs, Legal Expenses, etc. (10% of construction cost)	\$303,727.91
Land, Structures, Rights-of-way, appraisals, etc.	\$102,190.03
Relocation Expenses and Payments	\$N/A
Architectural, Engineering, Geotechnical, etc. (10% of construction cost)	\$303,727.91
Project Inspection Fees (10% of construction cost)	\$303,727.91
Site Work (includes clearing/grubbing, trench excavation safety system, excavation, 25% mobilization)	\$546,723.10
Demolition and Removal	\$0
Construction	\$2,905,079.96
Equipment ( <i>trackable assets costing \$5,000 or more</i> )	\$N/A
Miscellaneous ( <i>Personnel, Fringe Benefits, Travel, Supplies, etc.</i> )	\$108,215.18
<b>Total Project Costs</b>	<b>\$4,591,225.21 *</b>

\*To update total of all categories, right click the cell above and select Update Field

**Attach backup documentation to explain how the cost estimates were determined (spreadsheets, vendor quotes, engineer/design estimates, in-house worksheets, correspondence, etc.)**

Insert a by-property table for acquisition, elevation, or multi-site mitigation.

N/A

Describe the expenses included in each of the above budget categories:

The above estimated total costs are based on estimates generated by engineers for both the sewer main line rerouting and the 2400 linear feet bank of bank stabilization. **Pre-Award costs** are approximately 4% of the total project costs (includes conceptual planning and design, cost estimation, HMGP Application creation, and BCA estimation). **Project Management Costs** include agency correspondence (WDFW USACOE, DOE, FEMA, Pend Oreille County Community Development, etc.) for permit procurement and adherence; development of preliminary/final plans, specifications and estimates (PS&E) and review; project management (including PS&E development/review), RFP issuing/processing, contractor hiring, and all required construction management (including administration and inspection); and the implementation of contract Plans and Specifications through licensed construction contractor. **Land, Structures, Rights-of-way, appraisals, etc.** There is no need to acquire property for this project; however, we will install 5 large woody debris structures, which could cost up to \$20,000 per structure. **Relocation Expenses and Payments:** There is no need to relocate residences for this project. **Architectural, Engineering, Geotechnical, etc.:** We've estimated that 10% of total project costs will be allocated for engineering and geotechnical work to accurately survey and design both the bank stabilization project and the sewer relocation. **Project inspection fees** are estimated at 10% of total construction costs. This includes construction administration costs, inspection costs and permitting costs. **Construction costs are detailed** in Attachment C. Miscellaneous costs are estimated at only 2.4% of the total project cost; however, this is because each category has been estimated comprehensively, and estimates already include a 25-30% contingency.

Describe any consultations with any relevant agencies such as USACE, DFW, SHPO, WSDOT, etc.

To date, USACE, the Washington DFW and the Washington DOE are aware of this potential project and most agents have been on-site. While no permits have been submitted, we will work with our natural resource project manager to procure all necessary permits immediately upon receipt of the grant award. For more information on correspondence with relevant agencies, please see Attachment D. We have not yet consulted with the Washington DAHP or the Kalispel Tribe of Indians (who has historically inhabited and utilized this area); however, once we receive stable and secure funding, we will begin the cultural resources review process immediately.

## Funding Source – Non-Federal Match

The Hazard Mitigation Grant Program offers cost-share grants payable on a reimbursement basis. Jurisdictions must have sufficient resources to provide the required non-federal match and cover any cost overruns related to completing the proposed Scope of Work.

The maximum federal share is 75% of the total, eligible costs. The minimum non-federal cost share is 25%. In some instances, the state will split the non-federal share between the state (12.5%) and the applicant (12.5%). If this state match is available, applicants will be notified during the Pre-Application step of the HMGP round.

Source of Funds	Estimates
Federal 90%	\$ 4,132,102.69
State 5%	\$ 229,561.26
Local 5%	\$ 229,561.26
<b>Total:</b>	<b>*\$4,591,225.21</b>

\*To update the total, right-click the cell above and select Update Field. Please type "0" in the boxes that do not have match, or the total will not properly calculate.

Other Eligible Local (applicant) Non-Cash Match Sources:	
<i>Local (applicant) Staff Time</i>	\$ 29,561.26
<i>Local (applicant) Materials and/or Supplies</i>	\$ Click to enter
<i>Local (applicant) Equipment Use</i>	\$ Click to enter
Third Party In-Kind Donations*	\$ Click to enter
Other Eligible non-federal match sources	\$ Click to enter
<b>Local (applicant) Cash Match</b>	\$ 200,000
Total applicant Cost Share (at least 12.5% of project budget):	**\$229,561.26

\*\*To update the total, right-click the cell above and select Update Field. Please type "0" in the boxes that do not have match, or the total will not properly calculate.

\*Third Party In-Kind Contributions: The applicant's required cost share can include another entity's donations of staff time and/or volunteers, equipment use, materials, etc. These *Third Party In-Kind Contributions* must be identified in this table to be eligible for consideration as a cost-share match source.

## Sub-recipient Management Costs (SubMC)

Section 324 of the Stafford Act allows for reimbursement of eligible SubMC related to the administration of a FEMA mitigation subgrant. Sub-recipients may apply for and (if approved) receive reimbursement of eligible Management Costs they incur while administering their subgrant, up to 5 percent of the total subgrant amount. The 5 percent cap is applied to the total subgrant project cost, including federal and non-federal cost shares.

Eligible management costs are provided on a reimbursement basis with no non-federal cost share requirement; they are 100% federally funded, regardless of the subgrant's approved project (or planning activity) cost-share percentages.

### Do you intend to seek reimbursement for eligible SubMC?

No  If No, skip to [Schedule of Work](#).

Yes  If Yes:

1. Read the *SubMC: Description and FAQ* (attached)
2. Complete and submit the *SubMC: Narrative and Budget Proposal* form (attached).
3. Provide estimated SubMC Budget (*up to 5% of the total project costs*): \$ **224,641.55**

## Schedule of Work

List the major milestones in the proposed project and provide an estimated timeline for each activity. Projects must be completed within the established period of performance.

<b>MILESTONE Description of Activity/Task</b>	<b># of Months to Complete</b>
Surveying, testing, permitting, design and planning	12
Contractor RFP/Bidding, Selection, Contract Signing	6
Sewer Main Line Rerouting	12
Bank Stabilization	3
Project completion, reporting, billing/vouchering	3
Click to enter milestone	Enter #
Click to enter milestone	Enter #
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<b>Total Months Required to Complete This Project: No more than 36 months</b>	<b>36</b>

## Project Alternatives

### Alternative Project

This section is intended to demonstrate that project alternatives were seriously considered and that the proposed project is the most beneficial, cost-effective mitigation activity reasonably available to the applicant. The questions below ask for information regarding the next best mitigation action that was considered during the process of developing the proposed mitigation activity.

**Scope of Work** – Summarize an alternative course of action considered by your organization that would mitigate the same hazard. Include any appropriate diagrams, sketch maps, materials and equipment quantities, scale of the project, amount of time required to complete, etc.

In Attachment E, the 8 Step Process for Floodplains and Wetlands, we have identified two potential alternatives to the best-case scenario proposed in this application. **Alternative 1:** This alternative would include the sewer main line rerouting as outlined in the best-case scenario proposal, as well as a mix of hardened protection and bioengineered stabilization techniques which will be evaluated during the survey and planning phase based on the proximity of the top of the bank to existing structures. What differs is that instead of addressing the erosion along the 2400 feet of bank from Riverfront Park to town limits, efforts would focus on the 770 feet along the existing Riverside Avenue. This alternative could cut costs by 2/3, while offering many of the same benefits. **Alternative 2:** This alternative suggests to reseal the existing sewer main line and protect 770 feet of shoreline using 100% hardened techniques and plantings. Sewer Main Line: Existing good condition sewer main line pipe will have a thick epoxy coating applied on the inside of approximately 700 linear feet to permanently seal the leaks and cracks throughout the pipeline, and to prevent any future cracks or leaks from occurring. Bank Stabilization: As outlined in Attachment B, the initial site plan and detail of the project, we plan to use a fully hardened structure (rip-rap) from the toe of the slope to the top of the bank is the best option if Riverside Ave. is maintained and the sewer system remains in place. Some re-sloping would take place; however, due to the proximity of the top of the bank to Riverside Ave., this may not be possible in many locations along the project location. Minor excavation/site preparation, angular rocks and stones, geotextile or other filter materials, compacted fill material and some large woody debris will be installed at site to prevent further erosion.

**Hazard Mitigation** – How would the alternate project reduce or eliminate the hazard's effects and risks, and the need for future state or federal disaster assistance?

**Alternative 1:** This option would accomplish much of the same hazard reduction as our best-case scenario proposal; however, the scope of this project is 2/3 less than the initial proposal, and therefore, if a significant event were to take place, some landowners may be at risk of structural loss, loss of life, or could potentially suffer other direct and indirect effects. Nevertheless, by re-routing the sewer main line; decommissioning Riverside Ave.; re-sloping to a 3:1 to 4:1 slope, stabilizing the bank using a mixture of bioengineering, hardened structures, and plantings, the potential risk of losing critical infrastructure, disrupting the sewer system, and impacted waterways due to raw sewage could be eliminated.

**Alternative 2:** This alternative would lessen the risk of erosion; however, due to the steepness of the slope close proximity to the road (which is less than 5 feet from the toe of the bank on average across the potential project area), this would provide only a temporary fix. Without the ability to re-slope and adequately re-vegetate the bank, we believe this fix will last for 50 years, while the initial proposal will last for well over 100 years.

**Environmental Considerations** – How would the alternate project positively and/or negatively affect the surrounding environment? Include information regarding both natural (fish, wildlife, streams, soils, plant life) and social (public services, utilities, land/shoreline use, population density) environments.

**Alternative 1:** This option would have a net ecological benefit for the aquatic and terrestrial habitat around the Town of Metaline. By installing the structures using the methods we've laid out, sedimentation would be significantly reduced on this stretch of bank, large woody debris would be installed to provide habitat for endangered Bull trout and other salmonid fish species, and establishing vegetation along the bank would help address the temperature total maximum daily load (TMDL) outlined by the WA Department of Ecology. Re-routing the sewer main line would protect aquatic and terrestrial habitat along the Pend Oreille River downriver of the site and into the Columbia Basin since the risk of discharging large quantities of raw sewage would be eliminated. **Alternative 2:** While the alternative would minimize sedimentation, the hardened bank provides no food or habitat for fish. In addition, the hardened bank would increase temperature since little vegetation could establish on the hardened bank. While re-sealing the sewer main line would protect it from high flow events for some decades, a 100-year or 500-year flood event could still create conditions that render this critical infrastructure at risk of failing. Again, this would have significant downstream effects for the entire state of Washington.

Total Estimated Cost for Alternate Project: **Alternative 1:** \$3,150,000. **Alternative 2:** \$542,000

Additional Comments: [Click to enter](#)

### No Action Alternative

What are the potential impacts if no action is taken? Under the No Action Alternative, continued erosion will be observed along Riverside Avenue. During significant events (100-year to 500-year events), the likelihood of a mass wasting event or landslide increases dramatically, especially in conjunction with high levels of precipitation. At its current level and during high flows, vehicles are not permitted to drive along Riverside Avenue due to the susceptibility of a mass wasting event and potential impacts to critical infrastructure. In the event of a 500-year flood, paired with continued erosion, the potential risk of structural and residential loss increases significantly.

Is there a potential for degradation of already poor environmental conditions?  Yes  No

If Yes, please describe: With the No Action Alternative, the risk of sedimentation into the Pend Oreille River continues since the bank at its current state is so steep that it cannot revegetate. This has negative impacts to salmonids, specifically Bull trout, since high levels of sediment in waterways decrease dissolved oxygen (a vital component to a healthy aquatic ecosystem) and increase temperature, since the inability to establish vegetation prevents shading. In addition, if a mass wasting event were to take place and the sewer main line were compromised, there would be a significant discharge of raw/untreated sewage into the environmentally sensitive Pend Oreille River. The Town's typical sewer flow rate is 0.044 Million Gallons Per Day (MGD) on an average month. At that flow rate, a broken sewer line along Riverside would likely handle upwards of a third of the Town's flow and could spill 13,200 gallons per day of untreated sewage (30% of 44,000 gallons per day). The line would likely be open for at least a week given the severity of a slide/failure at that location and could be open for longer depending on the level of the river. A week of flow at 13,200 gallons per day would equate to 92,400 gallons of untreated sewage discharged in the Pend Oreille River. According to Norah et al. (2015), nitrates, phosphates, pH, temperature, dissolved oxygen, total dissolved solids, and biological oxygen demand were all adversely affected by the discharge of untreated sewage into a water way. Such a disaster could lead to eutrophication, toxic algal blooms, the proliferation of harmful bacteria, to name a few, which would impact the local aquatic, terrestrial and recreational ecosystems.

Additional Comments: [Click to enter](#)

## Environmental Data

Is there potential to violate any federal, state, local, or tribal law or code to protect the environment?

Yes  No If yes, please explain: [Click to enter](#)

### State Q&A

[Growth Management Act](#) Compliance – WA [Dept. of Commerce](#) and WA [Dept. of Ecology](#)

1. Is the jurisdiction in compliance with state Growth Management Act Requirements?
  - a.  Yes  No  Not Applicable (Tribes, Non-Profits)
  - b. If yes, provide the date the jurisdiction’s Comprehensive Land Use Plan (if required) and the Critical Areas Ordinances ([CAOs](#)) were approved and adopted.
    - i. Land Use [6/9/2015](#) CAOs [6/12/2018](#)
  - c. If no, explain the identified non-compliance issues and how the jurisdiction is resolving them. [Click to enter](#)
2. Is the proposed project in any Critical Area classifications identified in Washington State’s Growth Management Act? These areas include but are not limited to: Wetlands, Aquifer Recharge Areas, Frequently Flooded Areas, Geologically Hazardous Areas, and Fish and Wildlife Habitat Areas.  Yes  No
  - a. If yes, please identify the Critical Area categories: [Frequently flooded areas, fish and wildlife habitat areas.](#)
  - b. If yes, how will this project comply with protection requirements of these areas?

The project is intended to protect these critical areas by preventing raw sewage entering the waterbody and stabilize the streambank to further protect fish and wildlife habitat. Bank stabilization could also decrease the effects of flooding in the future by dispersing floodwater energy. Project activities will follow strategy #2 in the list of provisions to protect critical areas, namely: “Minimizing adverse impacts by limiting the degree or magnitude of the action and its implementation by using appropriate technology and engineering, or by taking affirmative steps to avoid or reduce adverse impacts” (Pend Oreille County Development Regulations, 118). Such actions could include working in-stream during low-flow periods to minimize impacts to fish populations and the waterbody, depositing project spoils in upland areas to prevent sediment entering the waterbody, operating heavy machinery during times of the year in which soils are drier and less sensitive to compaction/erosion, etc. POCD and permitting agencies will work with construction contractor(s) as appropriate to ensure that project activities align with the protection of critical areas.

National Flood Insurance Program ([NFIP](#)) Compliance – WA [Dept. of Ecology](#)

1. Is the project located in a Special Flood Hazard Area ([SFHA](#)) as [defined](#) by the NFIP?  Yes  No (Note: FEMA map identifies area as “No digital data available”, Department of Ecology map classifies area as “Flood hazard area, Q3 not yet updated”. See attachment XX for more information.)
2. The date of your most recent NFIP Community Assistance Visit (CAV) [11/8/2011](#)
3. Did your community have any CAV/NFIP issues or violations from this visit?  Yes  No
  - a. If yes, please explain: [Click to enter](#)

## Federal Q&A

### [National Historic Preservation Act](#)

#### **Historic Buildings and Structures**

Does your project affect or is it near any buildings or structures 45 years or more in age? Allowing for application review time

Yes  No  Unknown

If yes, explain how the project design will minimize adverse effects on known or potential historic buildings or structures. Please address and note associated costs in your [project budget](#).

Two properties in the focus area have structures (residences) built 45 or more years ago. However, any structures are located at least 40 feet from the expected work boundary, and the two known historic structures are even farther from the work area. Thus, there is not expected to be any impact to the structures as a result of sewer rerouting or bank stabilization and no additional costs anticipated as a result of working near these structures.

#### **Archeological Resources**

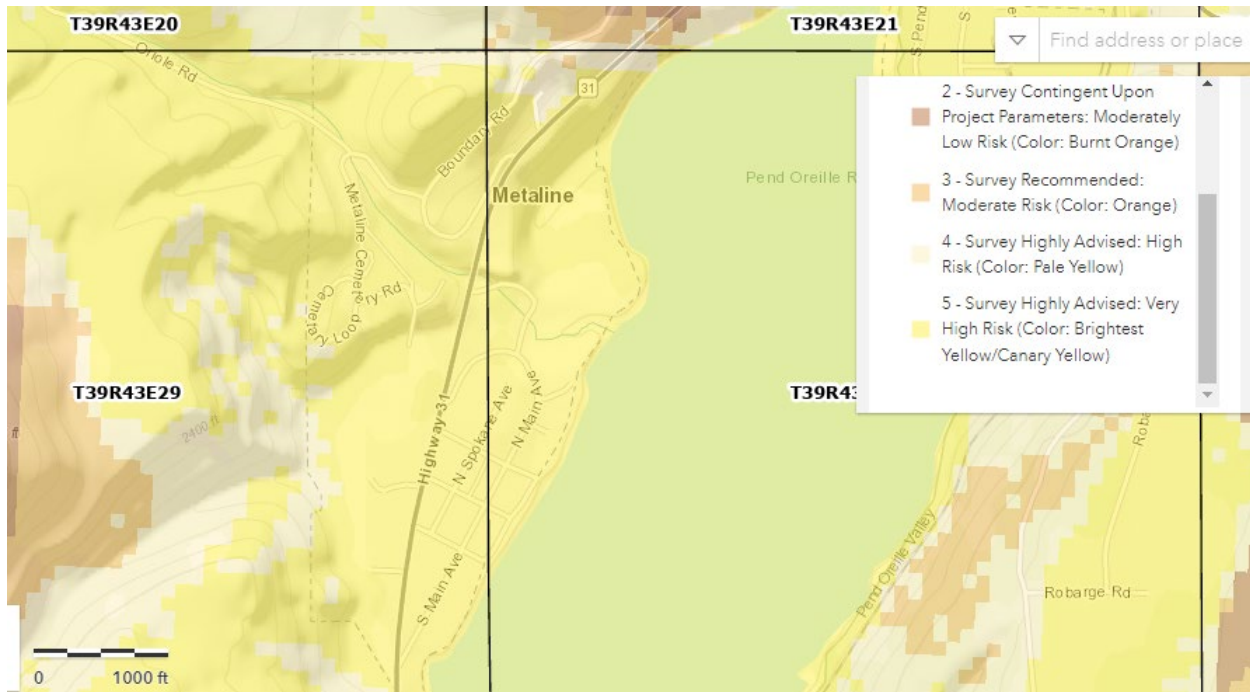
Does your project involve disturbance of ground?  Yes  No  Unknown

If yes, describe the ground disturbance by giving the dimensions (area, volume, depth, etc.) and location. Ground disturbing activities will take place along approximately 2400 feet of bank along the Pend Oreille River. While the area, depth and volume will vary, that the total area could be approximately 24,000 sq. ft. (2400 linear feet by an average of 10 ft. width). The average height of ground disturbance (from toe of the bank to the top) would be 15 ft. This means that total volume of potentially disturbed ground will be 360,000 cu. ft. Additionally, the sewer main line will be re-routed from beneath Riverside Avenue to Main Street (moved one block). Total length of sewer main line to be re-routed is approximately 700 feet.

Describe the past use of the area to be disturbed, noting the extent of previously disturbed ground.

The total potential project area is mostly owned by the town with only two private property owners along the entire stretch of bank. The road has been used for transportation while the bank has been used for recreation, parking, and some development.

Additional Information: Please see below, the DAHP predictive model for the Town of Metaline, for more information



[Endangered Species Act](#) and [Fish and Wildlife Coordination Act](#)

Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project?  Yes  No  Unknown

Does your project remove or affect vegetation?  Yes  No  Unknown

If yes, describe the amount (area and type of vegetation to be removed or affected. Existing vegetation will be impacted during bank stabilization along up to 2,400 linear feet of riverbank. Currently, this area is prone to sloughing and erosion, which threatens existing vegetation and the ecosystem services it provides. As part of bank stabilization, vegetation appropriate for a riparian bank (utilizing suitable species and densities of starts) will be installed according to riparian restoration principles. See the “No Action Alternative” discussion on p. 15.

Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water?

Yes  No  Unknown

[Clean Water Act](#), [Rivers and Harbors Act](#), and [Executive Order 11990](#) (Protection of Wetlands)

1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material, or result in any modification to water bodies or wetlands designated as “waters of the U.S.” as identified by the US Army Corps of Engineers or on the National Wetland Inventory?  Yes  No  Unknown

If yes, include USACE correspondence in [Environmental Review Attachments](#).

### [Executive Order 11988](#) (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study or some other source indicate that the project is located in or will affect a 100-year floodplain, a 500 year floodplain is a critical facility, an identified regulatory floodway, or an area prone to flooding?  Yes  No  Unknown

#### **If yes, complete the [8 Step Process](#)**

Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation?  Yes  No  Unknown

### [Coastal Zone Management Act](#)

1. Is the project located in the State's designated Coastal Zone? Note: the Coastal Zone includes projects located anywhere within a county that has a shoreline, regardless of whether or not the project itself is located on that shoreline.  Yes  No  Unknown

### [Farmland Protection Policy Act](#)

1. Will the project convert more than 5 acres of "prime or unique" farmland outside city limits to a non-agricultural use?  Yes  No  Unknown
2. Additional Information: [Click to enter](#)

### [RCRA](#) and [CERCLA](#) (Hazardous and Toxic Materials)

1. Is there a reason to suspect there are contaminants from a current or past use on the property associated with the proposed project?  Yes  No  Unknown
2. Are there any studies, investigations, or enforcement actions related to the property associated with the proposed project?  Yes  No  Unknown
3. Does any project construction or operation activities involve the use of hazardous or toxic materials?  Yes  No  Unknown
4. Do you know if any of the current or past land uses of the property affected by the proposed project or of the adjacent properties are associated with hazardous or toxic materials?  Yes  No  Unknown
5. Additional Information: [Click to enter](#)

### [Executive Order 12898](#), Environmental Justice for Low Income and Minority Populations

1. Are there low income or minority populations in the project's area of effect or adjacent to the project area?  Yes  No  Unknown  
The town of Metaline is conducting an income survey in 2022 to determine the number of low-to-moderate income persons in the town. Part of the reason for this updated survey is town staff's belief that the community has been inaccurately characterized as having a higher average income than it actually does. This effort suggests that a low-income population may be benefited by the project.
2. If yes, describe any disproportionate or adverse effects to these populations. As mentioned previously, the county's Multi-Jurisdiction Hazard Mitigation Plan states that citizens over the age of 65 are more likely to encounter evacuation challenges and/or require access to medical care in the event of an emergency (MJHMP 9-31). The Washington Office of Financial Management states that the percentage of people over the age of 65 in Pend Oreille County is in the range of 22.9-28.5%, higher than the 2020 Washington average of 16.5% (<https://ofm.wa.gov/washington->

[data-research/statewide-data/washington-trends/population-changes/population-age-mapped-county](#)). These data indicate the community affected by a catastrophic flood could encounter disproportionate hardship in responding to the disaster.

3. If yes, describe the affected population and the portion of the population that would be disproportionately and adversely affected. Please include specific efforts to address the adverse impacts. [Click to enter](#)

#### Other Environmental/Historic Preservation Laws or Issues

1. Are there other environmental/historic preservation requirements that are associated with this project that you are aware of?  Yes  No  Unknown
  - a. If yes, please explain: [Click to enter](#)
2. Are there controversial issues associated with this project?  Yes  No  Unknown
  - a. If yes, please explain: [Click to enter](#)
3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project?  Yes  No  Unknown
  - a. If yes, please explain: [Letters have been sent to project area landowners to inform them of the potential project. Public outreach will continue as funding is secured.](#)

**If you answered yes to any of the above questions in the Environmental Review, additional documentation will be required as listed in [Environmental Review Attachments](#).**

#### Summary and Cost of Potential Impacts

Having answered the above questions, have you identified any aspects of your proposed project that have the potential to impact environmental or historic properties?  Yes  No

If yes, confirm that you have completed the following:

- Evaluated these potential effects and provided the required materials in attachments that identify the nature and extent of potential impacts to environmental resources and/or historic properties.
- Consulted with appropriate parties to identify any measures needed to avoid or minimize these impacts.
- Considered alternatives that could minimize both the impacts and the cost of the project.
- Made certain that the costs of any measures to treat adverse effects are realistically reflected in the project budget estimate.

Additional information: [Click to enter](#)

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*End of Main Application-See Attachments and Supplemental Sections Below*

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## Environmental Review Attachments

<b>State Environmental Review</b>	
<input type="checkbox"/>	<a href="#">SEPA Compliance Checklist</a>
<b>NFIP</b>	
<input checked="" type="checkbox"/>	Documentation from Washington State Department of Ecology NFIP State Coordinator that you are currently in compliance
<b>National Historic Preservation Act</b>	
<input type="checkbox"/>	State historic preservation Officer (SHPO) concurrence letter
<input type="checkbox"/>	Correspondence from State or Tribal Historic Preservation Officer regarding any structures or buildings that are eligible for listing on the National Register of Historic Places or within or near a National Historic Register listed or eligible historic district
<input type="checkbox"/>	Explanation of how project design will minimize adverse effects on known or potential historic buildings or structures, and any alternatives considered or implemented to avoid or minimize effects on historic buildings or structures
<input type="checkbox"/>	For acquisition/demolition projects affecting historic buildings or structures, any data regarding the consideration and feasibility of elevation, relocation, or flood proofing as alternatives to demolition
<b>Archeological Resources</b>	
<input type="checkbox"/>	Dept. of Archeological and Historic Preservation (DAHP) concurrence letter
<input checked="" type="checkbox"/>	A description of the ground disturbance by giving the dimensions (area, volume, depth, etc.) and location
<input type="checkbox"/>	The past use of the area to be disturbed, noting the extent of ground disturbance
<input checked="" type="checkbox"/>	A USGS 1:24,000 scale sale or other site map showing the location and extent of ground disturbance
<input checked="" type="checkbox"/>	Any information about potential historic properties, including archeological sites in the project area
<b>Endangered Species Act and Fish and Wildlife Coordination Act</b>	
<input checked="" type="checkbox"/>	Q1. Any information obtained to identify species in or near the project area. Provide the source and date of the information cited.
<input type="checkbox"/>	Q1. Any request for information and associated response from the USFWS, the National Marine Fisheries Services (NMFS) (for affected ocean-going fish), or State Wildlife Agencies, regarding potential listed species present and potential of the project to impact those species
<input checked="" type="checkbox"/>	Q2. A description of the amount (area) and type of vegetation to be removed or affected
<input checked="" type="checkbox"/>	Q2. A site map showing the project area and the extent of vegetation affected
<input checked="" type="checkbox"/>	Q2. Photographs or digital images that show both the vegetation affected and the vegetation in context of its surroundings
<input type="checkbox"/>	Q3. Evidence of any discussions with the USFWS, and/or State Wildlife Agencies concerning any potential impacts if there is the potential for the project to affect any water body

<input checked="" type="checkbox"/>	Q3. A photograph or digital image of the site showing both the body of water and the project area
<input checked="" type="checkbox"/>	Q3. Any information about the type of water body nearby including: its dimensions, the proximity of the project activity to the water body, and the expected and possible changes to the water body, if any. Identify all water bodies regardless whether you think there may be an effect/
<input checked="" type="checkbox"/>	Q3. A 1:24,000 scale quadrangle map showing the project activities in relation to all nearby water bodies (within 200 feet).
<b><u>Clean Water Act, Rivers and Harbors Act, Executive Order 11990</u></b>	
<input checked="" type="checkbox"/>	Documentation of the project location on a USGS 1:24,000 scale topographic map or image and a copy of the National Wetlands Inventory map or other available wetlands mapping information
<input type="checkbox"/>	Request for information and response letter from the USACE and/or State resource agencies regarding the potential for wetlands, and applicability of permitting requirements
<input checked="" type="checkbox"/>	Evidence of alternatives considered to eliminate or minimize impacts to wetlands
<b><u>Executive Order 11988 (Floodplain Management)</u></b>	
<input checked="" type="checkbox"/>	Q1. <a href="#">8 Step Process for Floodplains &amp; Wetlands</a>
<input type="checkbox"/>	Q2. Hydrologic/hydraulic information from a qualified engineer to demonstrate how drainage and flood flow patterns will be changed and to identify down and upstream effects
<input type="checkbox"/>	Evidence of any consultation with the USACE if not already included elsewhere
<input type="checkbox"/>	Request for information and response letter from the State water resource agency, if applicable, with jurisdiction over modification of waterways
<b><u>Coastal Zone Management Act</u></b>	
<input type="checkbox"/>	Information resulting from contact with the appropriate State agency that implements the coastal zone management program regarding the likelihood of the project's consistency with the State's coastal zone plan and any potential requirements affecting the cost or design of the proposed activity
	<a href="#">Coastal Zone Management Form</a>
<b><u>RCRA and CERCLA (Hazardous and Toxic Materials)</u></b>	
<input type="checkbox"/>	Results of any consultations with State or local agencies to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation
<input type="checkbox"/>	Any studies, investigations, or enforcement actions related to the properties associated with the project
<b><u>Other</u></b>	
<input type="checkbox"/>	Documentation of Public Notices and/or public meetings related to the proposed project
<input type="checkbox"/>	Any available Agency consultations and correspondence not previously included
X	Any available Environmental Assessments or Biological Opinions related to the project

## Required Attachments

General	
X	<a href="#">Signed Certificate of Assurances</a> –please print and sign
X	<a href="#">Resolution Designating Applicant Agent</a> -please print and sign
X	Cost Estimate Summary Spreadsheet
X	Map of area with project site limits clearly identified
X	FIRM and/or FIRMETTE of Project Site(s)
X	Pictures of existing conditions at Project site(s)- at least 3 different sides or angles
X	Copy of FEMA Approval Letter for the reference Hazard Mitigation Plan
X	BCA Report (exported PDF from FEMA-Approved BCA software)
X	Local Funds Commitment Letter
X	BCA .zip file-includes full access to the project’s BCA inputs and assumptions
Acquisition	
	List of Properties and their addresses (include Lat & Long and total square footage)
	Documentation of the Valuation Estimate of the Property
	Signed assurances that the subapplicant will implement the project grant award in compliance 44 CFR Part 80 Property Acquisition and Relocation for Open Space
	If applicable: Documentation that verifies that Structure Relocation Costs Identify the Value of the Land to be Acquired in Addition to other Eligible Costs
	Signed Voluntary Interest form from all Property Owners
Elevation	
	List of Properties and their addresses (include Lat & Long, structure type, foundation type, original date of construction, elevation of lowest finished floor and total square footage)
	List of first floor elevation of the proposed elevation, proposed foundation type, proposed elevation methodology and standard, and Base Flood Elevation (BFE) or Advisory BFE (ABFE).
	Signed statement from the Appropriate Local Official or qualified professional that the Structure Appears to be Capable of Elevation and a Model Acknowledgement of Conditions for Mitigation of Property in a Special Flood Hazard Area
Equipment Purchases	
	Vendor Quotes
	Manufacturer’s Product Data
Wildfire Mitigation	
	Defensible Space: Maps clearly showing targeted properties (include square footage) and an approximation of the total vegetation to be removed
	Map clearly showing that the wildfire project activity will fall within a Wildland Urban Interface Area
	Building Replacement Value (BRV) and Project Useful Life/Projected Lifespan for structures to be protected
	A draft operations and maintenance plan
	Signed agreement from the property owner to maintain the defensible space for a structural protection project

Seismic Retrofits	
	Seismic studies and/or reports establishing existing conditions, needed retrofits, and post-mitigation seismic performance goal (target seismic code level)
	List of Properties and their addresses (include Lat & Long, soil type, construction type, original date of construction, building type, number of stories, use, occupancy, and total square footage)
	Assessment of the vulnerabilities (seismic) of the existing building conditions
	A Model Acknowledgement of Conditions for Mitigation of Property in a Special Flood Hazard Area
	Proposed Structural Retrofit Methodology and Applicable Engineering Standard
	Building replacement value (BRV) (\$/square foot) and supporting documentation
Flood Control	
	Excerpts of flood studies and hydrology reports
Optional, but encouraged	
X	Recent aerial image of the project site via Google, MapQuest, ArcGIS or similar
X	NFIP-CAV Letter confirming community is in good standing per CRS
X	Project relevant excerpts from the Local Hazard Mitigation Plan

## Open Space Acquisition Project Supplemental

1. Will the intended use of the property comply with [44 CFR Part 80](#), FEMA Property Acquisition and Relocation for Open Space and the current [Hazard Mitigation Assistance Unified Guidance](#), February 27, 2015.  Yes  No
2. Upon consultation with the US Army Corps of Engineers (USACE), are any of the proposed properties under consideration for the use of the construction of a levee system (including berms, floodwalls, and dikes)?  Yes  No
3. Upon consultation with the Washington State Department of Transportation (WSDOT), are any of the proposed properties under consideration for use for future, planned improvements or enhancements to the Federal Aid Systems, or other State transportation projects?  Yes  No \*If yes, the affected property will not be eligible for this grant
4. Is the pre-event market value being used in the proposed property valuations?  Yes  No

### Additional Acquisition Attachments

- Copies of any relevant letters/emails concerning consultation with USACE regarding consideration of levee systems, berms floodwalls, and dikes
- Copies of any relevant letters/emails concerning consultation with WSDOT regarding planned improvements of federal aid systems or state transportation projects.
- A completed Property Site Inventory. Template provided by WA EMD.

For each property to be acquired include the following:

- Signed copy of the Statement of Assurances
- Copy of the sample deed restriction that will be recorded at closing. The sample must be consistent with FEMA's model.
- Documentation of voluntary interest signed by each homeowner using individual signed statements.
- Certification on [FEMA Form 009-0-3](#) (formerly 90-69B) that the property owners are Nationals of the United States or qualified aliens.
- For each property that has been substantially damaged also include documentation provided to the property owner from the appropriate local official
- Property owner's NFIP Policy Documentation

## Elevation Project Supplemental

For each structure to be elevated include the following:

- Documentation of voluntary interest signed by each homeowner using individual signed statements.
- Elevation certificate ([FEMA Form 81-31](#)) or equivalent information/data used to determine the first floor elevation
- A completed Property Site Inventory. Template provided by WA EMD.
- Property owner's NFIP Policy Documentation

## Resolution Designating Applicant Agent

Subapplicants must provide a completed copy of the Resolution Designating Applicant Agent form found on the HMA grants website <https://mil.wa.gov/hazard-mitigation-grants>.