Snohomish County

SEPA CHECKLIST

Swamp Creek Bridge 503 Replacement RC1420

Snohomish County
Public Works
3000 Rockefeller
Avenue
Everett, WA 98201

Prepared by:

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Purpose of Checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

SUMMARY

A. BACKGROUND

Name of proposed project:
Swamp Creek Bridge 503 Replacement (RC 1420)

Name of applicant:
Snohomish County Public Works

Address and phone number of applicant and contact person:
Amy Lukens, Senior Planner
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Phone: 425-262-2630
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Date checklist prepared:
July 2021

Agency requesting checklist:
Snohomish County Public Works
Transportation and Environmental Services (TES) Division

Proposed timing or schedule (including phasing, if applicable):
Construction of the proposed bridge replacement is scheduled for the 2024 construction season.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, please explain.
None proposed.

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
- **Environmental Review Memo**
- **Critical Area Study**
- **Cultural Resources Report**
- **Hydraulic Study Report**
- **Drainage Report**
- **Design Report**
- **Geotechnical Memorandum**

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, please explain.
None known.

List any government approvals or permits that will be needed for your proposal, if known.

☑	**Permit/Approval:**	**Required from:**
☑	Section 7 Endangered Species Act Consultation	NOAA Fisheries and U.S. Fish and Wildlife Service
☑	Section 106 National Historic Preservation Act	Federal Lead Agency (Federal Highway Administration)
☑	NPDES Construction Stormwater General Permit	Washington State Department of Ecology
☑	Hydraulic Project Approval (HPA)	Washington State Department of Fish and Wildlife
☑	Drainage Certification	Snohomish County – Public Works
☑	Critical Area Certification	Snohomish County – Public Works
☑	Flood Hazard Permit	Snohomish County – Planning and Development Services
☑	Shoreline Permit	Snohomish County – Planning and Development Services
☑	Land Disturbing Activity Permit	Snohomish County – Public Works

1. Give a brief, complete description of your proposal, including the proposed uses and the size of the project site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal; you do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description).

   Snohomish County Public Works (PW) proposes to replace the existing Swamp Creek Bridge 503 to meet current standards and provide facilities for all users including bicycles and pedestrians. The existing bridge has been determined to be structurally deficient, functionally obsolete and scour critical.

   Bridge 503 carries Locust Way across Swamp Creek, east of Brier. The existing bridge is a 41-foot concrete tub girder design and will be replaced with a 70-foot concrete deck bulb tee girder design. The existing bridge is 22.5 feet wide. The new bridge will be 44 feet wide, accommodating two 11-foot driving lanes, two 5-foot bike lanes, and two 6-foot sidewalks.

   Additional right of way acquisition is anticipated for this project, and temporary construction easements will be needed. A new waterline will be installed within the road construction limits by Alderwood Water and Wastewater District.

2. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address if any, and section/township/range if known. If a proposal would occur over a range of areas, provide the range or boundaries of the site(s). Provide legal description, site plan, vicinity map, and topographic map if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

   The project is located within Section 26, Township 27 North, Range 4 East W.M. of unincorporated Snohomish County between Bothell and Brier. The project is located within both the Southwest County UGA and the Bothell Municipal UGA. Adjacent land uses are urban low-density residential. A vicinity map is attached for reference.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):
   - ☑ FLAT
   - ☐ ROLLING
   - ☐ HILLY
   - ☐ STEEP SLOPES
   - ☐ MOUNTAINOUS
   - ☐ OTHER (please describe): Click here to enter text.

b. What is the steepest slope on the site (approximate percent slope)?

   The site of bridge 503 is relatively flat, with slopes ranging between 0 to 8%.

c. What general types of soil are found on the site (i.e., clay – sand – gravel – peat – muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

   Norma loam, Alderwood-Urban land complex (gravelly ashy sandy loam)

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, please describe.

   None.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling excavation and grading proposed. Indicate source of fill.

   The area potentially affected totals 1.8 acres. Approximately 1,600 cubic yards of cut/fill are anticipated. All fill will be sourced from a County-approved supplier.

f. Could erosion occur as a result of clearing, construction or use? If so, please generally describe.

   Minor amounts of erosion may occur during construction. Temporary Erosion and Sedimentation Control Best Management Practices (BMPs) would be

implemented for temporary erosion and sedimentation control to minimize impacts from construction.

g. About what percent of the site will be covered with impervious surfaces after project construction (i.e., asphalt or buildings)?

The existing project site contains approximately 17,595 square feet (0.4 acre/ 22%) of impervious surface. A total of 3,769 square feet (0.1 acre/ 5%) of new impervious surface area would be added as part of the project. The completed project will have approximately 21,032 square feet (0.5 acre/ 28%).

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

All project activities would be subject to Best Management Practices and would comply with the provisions of all applicable permits. Best Management Practices may include, but are not limited to the following:

- **Protective covering would be placed over exposed soil areas to prevent sediments and other contaminants from entering the roadside ditches, streams, and wetlands. Protective covering would be clear plastic sheeting, straw mulch, jute matting, mulch, or erosion control blanket per Department of Ecology requirements.**
- **A temporary erosion and sedimentation control plan would be prepared and implemented during construction.**
- **Erosion and sedimentation control measures would be routinely inspected, maintained and repaired. Damaged or inadequate erosion and sedimentation control measures would be corrected quickly.**
- **Any bare soil that may result from project activity would be reseeded with an appropriate erosion control seed mix immediately following construction.**

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, please generally describe and give approximate quantities if known.

Some dust may be generated during grading and equipment exhaust will be emitted during construction. No long-term emissions will result from this project. Construction equipment, construction related activities, and vehicles carrying workers and equipment to and from the site would result in minor, temporary increases in emissions and dust. There would be no increase in emissions once construction is complete.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, please generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

During construction, equipment emissions would not exceed state and national air quality standards. The project would use only equipment and trucks in optimal operational condition. Dust control measures would be implemented to minimize airborne dust.

3. Water

a. Surface Water:

1. Is there any surface water body on or in the immediate vicinity of the site (including year round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, please describe type and provide names. If appropriate, state what stream or river if flows into.

Swamp Creek, a Type S salmonid-bearing stream flows under Bridge 503. Swamp Creek is approximately 14.7 miles long with headwaters in south Everett. It is a tributary to the Sammamish River and is within the Lake Washington basin.

A tributary to Swamp Creek, Locust Creek, is mapped approximately 300 feet west of the proposed project. Locust Creek is a likely a Type F salmonid bearing stream.

There is a forested, Category II wetland located southeast of the project area approximately 75 feet upstream from Locust Way. This wetland is adjacent to the left bank of Swamp Creek and located within the protected Native Growth Protection Area of the Isabella Park plat. The wetland does not extend into the existing Locust Way right-of-way and is not expected to be impacted by the project.

2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes, this project will occur directly over and adjacent to Swamp Creek. Replacing the bridge will require minimal work within the stream to remove existing pilings and supporting abutment walls.

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

No fill or dredge will be placed in surface water or wetlands.

4. Will the proposal require surface water withdrawals or diversions? Please give a general description, purpose, and approximate quantities if known.

No permanent surface water withdrawals or diversions are planned. A temporary cofferdam and/or dewatering around the center pier may be required during pile removal.

5. Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
   Yes, the proposed project is located within the 100-year floodplain. A map of the 100-year floodplain is attached.

6. Does the proposal involve any discharges of waste materials to surface waters? If so, please describe the type of waste and anticipated volume of discharge.
   No, no waste materials will be discharged into surface waters.

b. Groundwater:
   1. Will groundwater be withdrawn from a well for drinking water of other purposes? If so, please give a general description of the well, proposed uses and approximate quantities withdrawn from the well.
      No, groundwater will not be withdrawn for this project.

   2. Will water be discharged to groundwater? Please give a general description, purpose, and approximate quantities if known.
      No, water will not be discharged to groundwater for this project.

   3. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (i.e., domestic sewage, industrial, containing the following chemicals..., agricultural, etc.).
      None.

   4. Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.
      The bridge currently conveys 10,203 vehicular crossings daily. That number is projected to increase to 15,000 crossings by 2040.

c. Water Runoff (including storm water):
   1. Describe the source of runoff (including stormwater) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, please describe.
      Approximately 30% of current storm water runoff from the existing roadway is conveyed into two existing stormwater detention ponds, located at the NE and SW corners of the bridge, via a conveyance ditch along the NE corner, and stormwater conveyance systems throughout the project area.

      The proposed project will add 4,457 SF of new impervious surface and 2,120 SF of new pollution generating surface. The project will incorporate infiltration/ water quality treatment facilities and low impact development best

management practices (LID BMP's) to mitigate for the new impervious surfaces. Designs being considered include bioretention swales, bioretention planters, and pervious sidewalks.

2. Could waste materials enter ground or surface waters? If so, please generally describe.
   No waste materials from the site will enter ground or surface water. Best Management Practices (BMPs) will be used to prevent erosion during construction.

3. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, please describe.
   Currently storm water runoff sheet flows from the existing roadway and disperses into the surrounding vegetation or is conveyed by roadside ditches to stormwater facilities. Stormwater that is currently being conveyed to existing detention ponds will have its current routing maintained. The proposed project would channel stormwater from new impervious surfaces into treatment locations. Bioretention swales and bioretention planters are being considered.

d. Proposed measures to reduce or control surface water, groundwater, runoff water, and drainage impacts, if any:
   Construction is proposed during the dry season. An erosion control plan will be developed for this project. During construction, surface water runoff and water quality would be controlled by erosion control BMPs. Clearing and grading will be limited by fencing prior to any site disturbance. Bioretention techniques are being considered to reduce impacts on surface water. Bare soil would be seeded and/or planted to control erosion after construction. Stormwater erosion control measures and runoff treatment will be designed and constructed to comply with adopted SCC 30.63A Drainage development regulations.

4. Plants

a. Check all types of vegetation below found on or in close proximity to the site:
   ☑ deciduous tree: **black cottonwood, big-leaf maple**
   ☑ evergreen tree: **Douglas-fir, Western redcedar, pine, other**
   ☑ shrubs: **Indian plum, sword fern, vine maple, blackberry, salmonberry**
   ☑ grass
   ☐ pasture
   ☐ crop or grain
   ☐ orchards, vineyards, or other permanent crops
   ☐ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
   ☐ water plants: water lily, eelgrass, milfoil, other
   ☐ other types of vegetation present: Click here to enter text.

b. What kind and amount of vegetation will be removed or altered?

Vegetation will be removed to provide access to construction equipment and accommodate the larger bridge and sidewalks. Several trees, shrubs and groundcover will be removed.

c. List threatened and endangered plant species known to be on or near the site.

None known.

d. List all noxious weeds and invasive species known to be on or near the site.

Himalayan and evergreen blackberry, ivy

e. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation of the site, if any:

Mitigation for impacts to the stream buffer and wetland buffer are required and would comply with requirements established in SCC 30.62A Wetlands and Fish & Wildlife Habitat Conservation Areas development regulations. Native plants will be planted to compensate for vegetation removed. Invasive plants will be removed, where practical, prior to planting. Temporary impacts to native vegetation will be restored.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.
birds: **robin, song sparrow, common crow, violet-green swallow, goldfinch, Northern flicker, warblers, neotropical migratory birds**
mammals: **opossum, raccoon, spotted skunk, eastern gray squirrel**
fish: **salmon, trout**

b. List any threatened and endangered wildlife species known to be on or near the site.
Chinook salmon, Coho salmon, Sockeye salmon, and Steelhead trout

As of **May 4, 2021,** the following threatened, endangered, sensitive, or priority species that may be found within the county include (check all that apply):

	Common Name	**Latin Name**	**Federal Listing**	**State Listing**
☑	Puget Sound ESU Chinook	Oncorhynchus tshawytscha	Threatened	Candidate
☑	Puget Sound DPS Steelhead	O. mykiss	Threatened	N/A
☑	Bull trout	Salvelinus confluentus	Threatened	Candidate
☐	Pygmy whitefish	Prosopium coulteri	N/A	Sensitive
☐	Margined sculpin	Cottus marginatus	N/A	Sensitive
☑	Olympic mudminnow	Novumbra hubbsi	N/A	Sensitive
☑	Oregon spotted frog	Rana pretiosa	Threatened	Sensitive
☐	Larch mountain salamander	Plethodon marselli	N/A	Sensitive
☐	Common loon	Gavia immer	N/A	Sensitive

☐	Peregrine falcon	Falco peregrinus	Species of Concern	Sensitive
☑	Marbled murrelet	Brachyramphus marmoratus	Threatened	Endangered
☑	Northern spotted owl	Strix occidentalis caurina	Threatened	Endangered
☑	Yellow-billed cuckoo	Coccyzus americanus	Threatened	Candidate
☐	Fisher	Martes pennanti	Endangered	Endangered
☑	Gray wolf	Canis lupus	Endangered	Endangered
☐	Grizzly bear	Ursus arctos horribilis	Threatened	Endangered
☐	Southern resident killer whale	Orcinus orca	Endangered	Endangered

Where federal threatened and endangered species are found, all work will conform to the requirements of the Endangered Species Act administered by the US Fish and Wildlife Service and the National Marine Fisheries Service. Where state listed species or Priority Habitats and Species (PHS) are found, the Washington Department of Fish and Wildlife Priority Habitats and Species recommendations will be followed, when appropriate. The most current PHS list can be found at: https://wdfw.wa.gov/species-habitats/at-risk/phs/list.

c. Is the site part of a migration route? If so, please explain.

Swamp Creek supports several species of salmonids, including Chinook and Puget Sound steelhead. Additionally, this site is within the Pacific Flyway used by migratory birds.

d. List any invasive animal species known to be on or near the site.

None known

e. Proposed measures to preserve or enhance wildlife, if any:

Lengthening the bridge to create a wider opening under the bridge will provide for easier wildlife access under the bridge. Planting native trees and shrubs will enhance wildlife habitat and improve stream conditions through shading, erosion control, and organic inputs. The project design would comply with measures identified as part of Section 7 Endangered Species Act consultation.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Please describe whether it will be used for heating, manufacturing, etc.

None.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, please generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None proposed.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, please describe.

The sub-structure of the existing bridge is constructed using creosote treated wood. Removal of the creosote treated piles would potentially release contaminants into the stream. To reduce the potential of creosote treated wood contaminants, pilings will be removed with care and in-stream work may be isolated. Spills of fuel and other heavy equipment fluids could potentially occur during construction. A spill prevention, control, and countermeasures (SPCC) plan will be prepared and implemented during construction.

1. Describe any known or possible contamination at the site from present or past uses.
   None known.
2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.
   Creosote treated wood was used in the original construction of the bridge. Additionally, the bridge carries a 12-inch conduit for Ziply fiber optic and a Puget Sound Energy 6-inch pressure gas line.
3. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or any time during the operating life of the project.
   None.
4. Describe special emergency services that might be required.
   Puget Sound Energy will shut off the gas main during construction to reduce risk. However, if the line is damaged, construction crews would leave the area immediately and evacuate nearby vehicles and buildings if necessary. Puget Sound Energy would be contacted as well as 911, if necessary.
5. Proposed measures to reduce or control environmental health hazards, if any:
   Utilities will be marked in the field ahead of construction. Puget Sound Energy will shut off the gas main during construction to reduce risk.

b. Noise:

1. What types of noise exist in the area which may affect your project (i.e., traffic, equipment, operation, aircraft, other)?
   No noise in the area would affect the proposed project.

2. What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (i.e., traffic, construction, operation, other)? Indicate what hours noise would come from the site.
   During construction increased noise levels will be anticipated as a result of using mechanized heavy equipment. These increased noise levels above the ambient noise levels are anticipated to be intermittent and generally occur between 7:00 AM and 5:00 PM, Monday through Friday during the construction phase.

3. Proposed measures to reduce or control noise impacts, if any:
   Construction noise will be limited to hours established by Snohomish County permit conditions. Heavy equipment would be operated in accordance to Occupational Safety and Health Administration (OSHA) and other applicable noise standards.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land use on nearby or adjacent properties? If so, please describe.
   The current use of the site is an existing roadway and bridge structure. The properties immediately adjacent to the bridge are urban-suburban, hosting low-density residential uses.

b. Has the site been used as working farmlands or working forestlands? If so, please describe. How much agriculture or forestland of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forestland tax status will be converted to non-farm or non-forest use?
   No.

   1. Will the proposal affect or be affected by surrounding working farmland or forestland's normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:
      No.

c. Describe any structures on the site.
   The existing bridge is a 41-feet long, 22.5-feet wide concrete tub girder bridge. No other structures are on site.

d. Will any structures be demolished? If so, what?
   The existing bridge, including all pilings and substructures will be removed.

e. What is the current zoning classification of the site?
   Residential (R-7,200 and R-9,600)

f. What is the current comprehensive plan designation of the site?
   Urban Low Density Residential

g. If applicable, what is the current shoreline master program designation of the site?

Urban

h. Has any part of the site been classified critical area by the city or county? If so, please specify.

Yes, Swamp Creek, its floodplain, its adjacent buffers, and the buffer of a nearby wetland are considered environmentally sensitive and are designated as Critical Areas according to Snohomish County Code SCC 30.62A.

i. Approximately how many people would reside or work in the completed project?

Not applicable

j. Approximately how many people would the completed project displace?

This project is not anticipated to displace people. Property may be purchased to accommodate the design elements including stormwater treatment and to mitigate for impacts. Any acquisition would be in accordance with applicable federal, state, and county regulations.

k. Proposed measures to reduce or control impacts to nearby agricultural and forestlands of long-term commercial significance, if any:

None proposed.

l. Proposed measures to ensure the proposal is compatible with existing projected land uses and plans, if any:

This project is consistent with the Snohomish County Growth Management Act Comprehensive Plan (2018) Transportation Element. It is identified in the Snohomish County Transportation Improvement Program for 2021-2026: F.54 Swamp Creek Bridge# 503 Replacement.

m. Proposed measures to avoid or reduce displacement, if any:

Any acquisition of needed right-of-way will be in accordance with applicable federal, state, and county regulations.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Not Applicable.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

A complete and detailed right-of-way plan would be developed in accordance with applicable federal, state, and county regulations. When acquisition or displacement becomes necessary, a complete and detailed set of relocation and right-of-way plans would be developed. Chapter 8.25 and 8.26 of the Revised Code of Washington would govern right-of-way acquisition

proceedings. These laws ensure fair and equitable treatment of those displaced. In addition, right-of-way purchases would be in accordance with Civil Rights Act Title VI legislation and the federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended (42 U.S.C.) These laws would provide payment for reasonable and necessary costs to relocate persons displaced by the project and ensure prompt and fair relocation payments and requires agency review of aggrieved parties. Acquisition proceedings include appraisal, determination of just compensation, presentation of an offer and compensating the individual. Acquisition proceedings within the project vicinity would not be initiated until the environmental review process has been completed.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The bridge rail will be the tallest height of the structure at approximately 4 feet above the roadway surface. The total height of structure, including the bridge rail, above the creek bed at the thalweg is approximately 20 feet. Principle building material will be concrete.

b. What view in the immediate vicinity would be altered or obstructed?

The replacement bridge will be wider and longer than the existing bridge. It will include sidewalks and a shoulder. Some trees and vegetation may be removed to access the site for removal of the old bridge and construction of the replacement bridge.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Trees will be preserved where possible. Native vegetation will be replanted after construction.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The project area has existing streetlights. At least one streetlight may need to be replaced if a power pole is relocated. Night work will likely not be needed for this project.

b. Could light or glare from the b. finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None known.

d. Proposed measures to reduce or control light and glare impacts, if any?

None proposed.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

There are no parks in the immediate vicinity of the bridge. The creek and riparian areas may be used informally by neighbors and adjacent landowners.

b. Would the proposed project displace any existing recreation uses? If so, please describe.

No.

c. Proposed measures to reduce or control impacts on recreating, including recreation opportunities to be provided by the project or applicant, if any:

The widening of the bridge will improve pedestrian and bike access and safety.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites located on or near the site that are over 45 years old listed in or eligible for listing in national, site, or local preservation registers located on or near the site? If so, please general describe.

The existing bridge was constructed in 1960, however it was largely reconstructed in 1987 and 1988.

b. Are there any landmarks, features or other evidence of Tribal or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known. A desktop archaeological screening review of archaeological records was conducted by Snohomish County Public Works to determine if any known archaeological or cultural sites are within the vicinity of the proposed project.

c. Describe methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with Tribes and the Department of Archeology and Historic Preservation, archaeological surveys, historic maps, GIS data, etc.

A GIS desktop review of archaeological records was conducted by Snohomish County Public Works. Section 106 National Historic Preservation Act consultation with local Tribes and the Department of Archeology and Historic Preservation would occur as part of the project's Section 106 National Historic Preservation Act requirements.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required:

Section 106 National Historic Preservation Act consultation would occur as part of the project and a cultural resources review performed by the County Archaeologist. Although no known archaeological or cultural sites are within the vicinity of the proposed project, there is still a possibility of resources to be discovered during construction. An Inadvertent Discovery Plan would be

developed and included in project construction documents to address inadvertent discovery of archaeological or cultural resources. If suspected human remains are found, all project work will cease. The Snohomish County Medical Examiner, County Archaeologist, Native American tribe(s), and the Washington State Department of Archaeology and Historic Preservation will be notified immediately.

14. Transportation

a. Identify public streets and highways serving the site, or affected geographic area, and describe proposed access to the existing street system. Show on site plans, if any.

The bridge is located on Locust Way in southwest Snohomish County.

A temporary detour route will be required during construction. The proposed detour is approximately 4.1 miles in length. Locust Way will be closed to through traffic between the intersections at 228th St SW and 226th Pl SW. Traffic will be detoured around the closure using 228th St SW, 4th Ave W, 214th St SW, Damson Road, Logan Road, and Locust Way.

b. Is the site or affected geographic area currently served by public transit? If so, please generally describe. If not, what is the approximate distance to the nearest transit stop?

Locust Way is not served by public transit in the project area. The closest service is in Brier or Bothell/Canyon Park which is served by Community Transit.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project proposal eliminate?

No parking spaces are proposed.

d. Will the proposal require any new – or improvements to existing – roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, please generally describe (indicate private or public).

The proposed project will replace the existing Swamp Creek Bridge 503. The proposed design will meet current standards and provide public facilities for all users including bicycles and pedestrians. Sidewalks will be extended to connect existing pedestrian facilities along the northeast section of Locust Way. The existing bridge is 22.5 feet wide. The new bridge will be 44 feet wide, accommodating two 11-foot driving lanes, two 5-foot bike lanes, and two 6-foot sidewalks.

e. Will the project or proposal use (or occur in the immediate of) water, rail, or air transportation? If so, please generally describe.

The proposed project will replace a bridge over Swamp Creek.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial or non-passenger vehicles). What data or transportation models were used to make these estimates?

Current ADT is 10,203 vehicles, with 7% truck traffic. Future projections anticipate an ADT of 15,000 vehicles with similar truck percentages. Peak volumes occur in the afternoon per the County's 2020 traffic study. Current ADT data were collected using portable road tube counters.

g. Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, please generally describe.

No.

h. Proposed measures to reduce or control transportation impacts, if any:

The proposed bridge will be wider, providing a safer passage of vehicles and pedestrians.

15. Public Services

a. Would the project result in an increased need for public services (i.e., fire protection, police protection, public transit, health care, schools, other)? If so, please generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

A temporary detour route will be required during construction. The proposed detour would be approximately 4.1 miles in length from end to end. Locust Way would be closed to through traffic between the intersections at 228th St SW and 226th Pl SW. Traffic would be detoured around the closure using 228th St SW, 4th Ave W, 214th St SW, Damson Road, Logan Road, and Locust Way.

16. Utilities

a. Check all utilities currently available at the site:

☑ Electricity
☑ Natural Gas
☐ Water
☐ Refuse Service
☑ Telephone
☐ Sanitary Sewer
☐ Septic System
☑ Other (please describe) **Fiber**

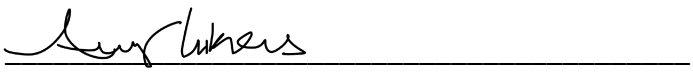
b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site of in the immediate vicinity which might be needed.

A 12-inch Ziply Fiber conduit and a Puget Sound Energy 6-inch intermediate pressure gas line are mounted on the existing bridge. These utilities will require relocation during construction. Electric and communication lines run overhead of the project site. One utility pole may need to be relocated to accommodate the new bridge.

Alderwood Water and Wastewater District (AWWD) does not currently have any facilities crossing over the existing bridge. However, AWWD has an 8-inch ductile iron watermain that terminates at a blow off assembly approximately 160 feet north of the bridge on the east side of the County right of way. AWWD has expressed intent to extend the 8-inch watermain through the project site, mounting it to the new bridge. The new main would tie in to the existing AWWD facilities that terminate south of the bridge at the intersection of Locust Way and 228th St SW. This water main extension may require an interlocal agreement with the County and AWWD. The County will coordinate with AWWD throughout design of the proposed bridge and during construction.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 

Printed name: Amy Lukens

Position and Agency/Organization: Senior Planner, Snohomish County Public Works TES-ENVS

Date Submitted: July 12, 2021