



**Request for Clean Water Act**  
**Section 401 Water Quality Certification**  
**WA State Department of Ecology**  
Phone: (360) 407-6076 or E-mail: [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov)

AGENCY USE ONLY

Date Received: 10/27/2021  
Aquatics ID#: 140887  
Team: NWRO  
Valid Request: 10/27/2021

**A. Identify the applicable federal license or permit:**

Permit or License Number (if known): NWS-2021-743-WRD

Federal Agency triggering the Water Quality Certification (WQC):

- U.S. Army Corps of Engineers       U.S. Coast Guard  
 U.S. Environmental Protection Agency       Federal Energy Regulatory Commission  
 Other: \_\_\_\_\_

**B. Project Information:**

Name: Interbay Conveyance Rehabilitation and Odor Control Project County: King

**C. Documentation showing that the pre-filing meeting request was submitted at least 30 days prior to submitting this Section 401 WQC Request:**  Attached

**D. Applicable Additional Information (Attached):**

- Completed, signed, and dated Joint Aquatic Resources Permit Application (JARPA)  
 Water Quality Monitoring Plan or WQ Monitoring and Protection Plan  
 Mitigation Plan  
 Wetland Delineation Report and ratings  
 Copy of the federal permit or license application, including all accompanying information  
 Suitability Determination for dredging projects with in-water disposal  
 Dewatering Plan  
 Revegetation/Restoration Plan  
 Erosion and Sediment Control Plan  
 SEPA and/or NEPA decision

**E. Certification Statements:**

The project proponent hereby certifies that all information contained herein is true, accurate, and complete, to the best of my knowledge and belief.

Initial JCS

The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Initial JCS

Signature: \_\_\_\_\_ Date: 10/15/2021  
DocuSigned by:  
*Jacob Sheppard*  
61D45E87F48C46C...

Print Name: Jacob Sheppard

**Submit this CWA §401 Certification Request form along with a JARPA and supporting information to [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov) and cc the federal permitting agency.**

To request an ADA accommodation, contact Ecology by phone at (360) 407-6076 or email at [ecyrefedpermits@ecy.wa.gov](mailto:ecyrefedpermits@ecy.wa.gov), or visit [Accessibility & the Americans with Disabilities Act \(ADA\)](#). For Relay Service or TTY call 711 or 877-833-6341.



# WASHINGTON STATE

## Joint Aquatic Resources Permit Application (JARPA) Form<sup>1,2</sup> [\[help\]](#)

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



US Army Corps of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: 10/27/2021 edoc  
Rec'd 401 Request Form

Agency reference #: \_\_\_\_\_

Tax Parcel #(s): \_\_\_\_\_

### Part 1—Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [\[help\]](#)

Interbay Conveyance Rehabilitation and Odor Control Project

### Part 2—Applicant

The person and/or organization responsible for the project. [\[help\]](#)

2a. Name (Last, First, Middle)

Jacob Sheppard

2b. Organization (If applicable)

King County Department of Natural Resources and Parks, Wastewater Treatment Division

2c. Mailing Address (Street or PO Box)

201 S Jackson Street, KSC-NR 5500

2d. City, State, Zip

Seattle, WA, 98104

2e. Phone (1)

(206) 477-5395

2f. Phone (2)

2g. Fax

2h. E-mail

Jacob.Sheppard@kingcounty.gov

<sup>1</sup>Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

<sup>2</sup>To access an online JARPA form with [\[help\]](#) screens, go to

[http://www.epermitting.wa.gov/site/alias\\_resourcecenter/jarpa\\_jarpa\\_form/9984/jarpa\\_form.aspx](http://www.epermitting.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx).

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

### Part 3—Authorized Agent or Contact

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

<b>3a.</b> Name (Last, First, Middle)			
<b>3b.</b> Organization (If applicable)			
<b>3c.</b> Mailing Address (Street or PO Box)			
<b>3d.</b> City, State, Zip			
<b>3e.</b> Phone (1)	<b>3f.</b> Phone (2)	<b>3g.</b> Fax	<b>3h.</b> E-mail

### Part 4—Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. Consider both **upland and aquatic** ownership because the upland owners may not own the adjacent aquatic land. [\[help\]](#)

- Same as applicant. (Skip to Part 5.)
- Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)
- There are multiple upland property owners. Complete the section below and fill out [JARPA Attachment A](#) for each additional property owner.
- Your project is on Department of Natural Resources (DNR)-managed aquatic lands. If you don't know, contact the DNR at (360) 902-1100 to determine aquatic land ownership. If yes, complete [JARPA Attachment E](#) to apply for the Aquatic Use Authorization.

<b>4a.</b> Name (Last, First, Middle)			
<b>4b.</b> Organization (If applicable)			
<b>4c.</b> Mailing Address (Street or PO Box)			
<b>4d.</b> City, State, Zip			
<b>4e.</b> Phone (1)	<b>4f.</b> Phone (2)	<b>4g.</b> Fax	<b>4h.</b> E-mail

## Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

- There are multiple project locations (e.g. linear projects). Complete the section below and use [JARPA Attachment B](#) for each additional project location.

<b>5a.</b> Indicate the type of ownership of the property. (Check all that apply.) <a href="#">[help]</a>			
<input type="checkbox"/> Private <input type="checkbox"/> Federal <input checked="" type="checkbox"/> Publicly owned (state, county, city, special districts like schools, ports, etc.) <input type="checkbox"/> Tribal <input type="checkbox"/> Department of Natural Resources (DNR) – managed aquatic lands (Complete <a href="#">JARPA Attachment E</a> )			
<b>5b.</b> Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) <a href="#">[help]</a>			
Project is located east of the Interbay BNSF Balmer Rail Yard and west of the Interbay Golf Center and Interbay Athletic Complex and extends to the W Armory Way cul-de-sac. See Figure 1.			
<b>5c.</b> City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) <a href="#">[help]</a>			
Seattle, Washington, 98199			
<b>5d.</b> County <a href="#">[help]</a>			
King			
<b>5e.</b> Provide the section, township, and range for the project location. <a href="#">[help]</a>			
¼ Section	Section	Township	Range
NE	23	25N	3E
<b>5f.</b> Provide the latitude and longitude of the project location. <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83)</li> </ul>			
Northern terminus: 47.646539, -122.380241			
Southern Terminus of project: 47.640439, -122.380079			
<b>5g.</b> List the tax parcel number(s) for the project location. <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>The local county assessor's office can provide this information.</li> </ul>			
King County WTD: 2771108091; Seattle DPR: 2771108090; BNSF: 2325039104, 7666201441; South Point: 2325039017; WA State Armory: 766620-1147; City of Seattle right-of-way			

<b>5h. Contact information for all adjoining property owners. (If you need more space, use <a href="#">JARPA Attachment C.</a>) <a href="#">[help]</a></b>		
<b>Name</b>	<b>Mailing Address</b>	<b>Tax Parcel # (if known)</b>
City of Seattle Department of Parks and Recreation, Interbay Golf Center & Interbay Athletic Complex	300 Elliott Avenue W STE 100 Seattle, WA, 98119	2771108090
BNSF Railway Company	PO BOX 961089 Fort Worth, TX, 76161	766201450, 2325039017
Michael's	10655 NE 4th Street STE 606 Bellevue, WA, 98004	2771600908
State of Washington Armory	MILITARY DEPT, CAMP MURRAY SAS-SFS TACOMA WA 98430	7666201147
South Point (Seattle Investments LLC)	3401 EAST KENTUCKY AVENUE DENVER CO 80209	2325039017

**5i. List all wetlands on or adjacent to the project location. [\[help\]](#)**

Four depressional wetlands (Wetlands A, B, C, and D) are located within the study area. See the attached wetlands report (Parametrix 2021) for further details.

**5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [\[help\]](#)**

None

**5k. Is any part of the project area within a 100-year floodplain? [\[help\]](#)**

Yes     No     Don't know

**5l. Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)**

The project site is composed almost entirely of invasive species. Wetlands within the project site are dominated primarily by reed canarygrass (*Phalaris arundinacea*) with some patches of common cattail (*Typha latifolia*). Other species present within the wetlands include Himalayan blackberry (*Rubus armeniacus*), Japanese knotweed (*Polygonum cuspidatum*), poison hemlock (*Conium maculatum*), and giant horsetail (*Equisetum telmateia*). Additionally, there are white poplar (*Populus alba*) and Lombardy poplar (*Populus nigra*) trees present within wetlands. The wetland buffer is limited by the Balmer Rail Yard to the west and is dominated by Himalayan blackberry along the eastern edge. Near the West Armory Way cul-de-sac, the wetland buffer vegetation consists of Himalayan blackberry, poison hemlock, and pasture grasses. Overall, habitat conditions are very poor, with limited species diversity and a high percentage of invasive species present. The surrounding landscape is heavily developed, and the site contains substantial trash and debris and has frequent anthropogenic disturbances.

**5m. Describe how the property is currently used. [\[help\]](#)**

The property is used as a wastewater utility pipeline system and includes the existing buried force main pipes that extend from the Interbay Pump Station to the existing force main discharge structure (FMDS) and proposed odor control facility (OCF). The East Bay Interceptor Section 8 (EBI 8) pipe is partially above ground and extends north from the FMDS. A gravel access road extending from W Wheeler Street leads to the FMDS. The property is a long linear parcel that is situated between the BNSF Balmer Rail Yard and the Interbay Golf Center. The parcel is positioned at the toe of the hillslope and is left mostly unmanaged, aside from maintenance activities for the FMDS and pipes.

**5n.** Describe how the adjacent properties are currently used. [\[help\]](#)

BNSF Railway Company is actively using the adjacent property for servicing and transferring train rail cars. The railyard is known as Balmer Yard and includes a 16-track classification yard to separate railways cars onto one of several tracks. The Interbay Golf Center property is part of the Interbay Athletic Complex, which is owned by the City of Seattle Department of Parks and Recreation. The 45-acre parcel includes a nine-hole golf course, a putting course, and a driving range with artificial turf and 80 stalls, all located to the east of the project. The southern border of the parcel is the City of Seattle's W Wheeler Street right-of-way. Directly southwest of the City of Seattle's W Wheeler Street right-of-way is the South Point (Seattle Investments LLC) property. The wetland on this parcel (the southern portion of Wetland A) is being filled by the owner to allow development of the adjoining private parcel. A retail shopping complex is located to the southeast of the site. Michaels home décor store is located in the retail complex, along with a large parking lot.

**5o.** Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [\[help\]](#)

Below ground there are two force main pipes from the pump that extend south from the Interbay Pump Station to the existing FMDS and proposed OCF. Above ground is the FMDS, with a surrounding security fence, and the EBI 8 pipe extending north. The EBI 8 pipe is partially exposed closer to the FMDS and is buried in the northern end of the project area. These structures are in need of repair and rehabilitation.

**5p.** Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

- From I-5 South, take exit 166 towards Stewart St/Denny Way
- Use the right lane to merge onto Eastlake Avenue
- Use the right lane to turn right onto Stewart Street
- Turn right onto Denny Way
- Use any lane to turn slightly right onto Western Ave W
- Continue onto Elliot Avenue W
- Continue onto 15<sup>th</sup> Avenue W
- Turn left on W Wheeler Street
- Destination will be on the right

## Part 6—Project Description

**6a.** Briefly summarize the overall project. You can provide more detail in 6b. [\[help\]](#)

King County is upgrading its sewer pipeline system in the Interbay neighborhood of Seattle, Washington. The Interbay Conveyance Rehabilitation and Odor Control Project extends from W Armory Way to the northwest corner of the Interbay Golf Center. Additional elements of the project extend further south to the County's Interbay Pump Station on W Garfield Street. These project elements are not near any waterbodies and are not described further.

The existing pipeline system in this area was built in the 1960s and is nearing the end of its service life. Due to extensive repair needs, the Interbay force main system requires improvements and upgrades in order to operate reliably. The main components of the Interbay Conveyance Rehabilitation and Odor Control project include rehabilitation of the 48-inch dual force mains, rehabilitation of the Elliott Bay Interceptor Section 8 (EBI 8) gravity pipe, rehabilitation of the force main discharge structure (FMDS), construction of a new odor control facility (OCF), and improving vehicular access to the FMDS site via W Armory Way. The project will install a temporary bypass pipe that will be critical during upgrades to the pipeline and associated facilities. The bypass pipe will be in place for 1.5 years and removed completely after upgrades are finished.

**6b.** Describe the purpose of the project and why you want or need to perform it. [\[help\]](#)

Overall, the project is intended to provide reliability of this portion of the wastewater system for the next 50 years and to enhance odor control. The existing Interbay force main system consists of 48-inch reinforced concrete pipes, the Interbay Pump Station and FMDS, and the 96-inch EBI 8 gravity pipe. It is experiencing wear and degradation from age. Portions of an adhered liner installed in 1995 on the interior of the FMDS appear to be failing, and the unlined areas appear to be damaged from scouring caused by high velocities of sewage passing through the structure. High hydrogen sulfide levels in the FMDS have caused corrosion and expensive-to-repair damage in the downstream EBI 8 pipe. There are currently no odor control measures to control off-gassing of odor- and corrosion-forming compounds at the FMDS. The County plans to mitigate odor issues at the site, which is close to the existing golf course and new commercial development. Access via the West Wheeler Street right-of-way to the FMDS site is a dirt/gravel road and is frequently impaired during wet weather.

**6c.** Indicate the project category. (Check all that apply) [\[help\]](#)

- Commercial     
  Residential     
  Institutional     
  Transportation     
  Recreational  
 Maintenance     
  Environmental Enhancement

**6d.** Indicate the major elements of your project. (Check all that apply) [\[help\]](#)

- |   |   |  |  |
|---|---|--|--|
| <input type="checkbox"/> Aquaculture          | <input type="checkbox"/> Culvert              | <input type="checkbox"/> Float               | <input type="checkbox"/> Retaining Wall (upland)       |
| <input type="checkbox"/> Bank Stabilization   | <input type="checkbox"/> Dam / Weir           | <input type="checkbox"/> Floating Home       | <input checked="" type="checkbox"/> Road               |
| <input type="checkbox"/> Boat House           | <input type="checkbox"/> Dike / Levee / Jetty | <input type="checkbox"/> Geotechnical Survey | <input type="checkbox"/> Scientific Measurement Device |
| <input type="checkbox"/> Boat Launch          | <input type="checkbox"/> Ditch                | <input type="checkbox"/> Land Clearing       | <input type="checkbox"/> Stairs                        |
| <input type="checkbox"/> Boat Lift            | <input type="checkbox"/> Dock / Pier          | <input type="checkbox"/> Marina / Moorage    | <input type="checkbox"/> Stormwater facility           |
| <input type="checkbox"/> Bridge               | <input type="checkbox"/> Dredging             | <input type="checkbox"/> Mining              | <input type="checkbox"/> Swimming Pool                 |
| <input type="checkbox"/> Bulkhead             | <input type="checkbox"/> Fence                | <input type="checkbox"/> Outfall Structure   | <input type="checkbox"/> Utility Line                  |
| <input type="checkbox"/> Buoy                 | <input type="checkbox"/> Ferry Terminal       | <input type="checkbox"/> Piling/Dolphin      |  |
| <input type="checkbox"/> Channel Modification | <input type="checkbox"/> Fishway              | <input type="checkbox"/> Raft                |  |

Other:

**6e.** Describe how you plan to construct each project element checked in 6d. Include specific construction methods and equipment to be used. [\[help\]](#)

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year floodplain.

The project includes extension of the temporary bypass pipe, rehabilitation of the 48-inch dual force mains, rehabilitation of the EBI 8 gravity pipe, rehabilitation of the FMDS, construction of a new OCF, and improving vehicular access to the FMDS site via W Armory Way. Each project component is described below.

**Temporary bypass pipe:** The project will install a bypass from W Armory Way to the EBI 8 immediately downstream of maintenance hole (MH) W10-105. In the project area, the bypass pipe (42-inch high density polyethylene (HDPE) with short sections of steel pipe and several PVC expansion joints) will be above ground, except for a portion of it crossing of the gravel BNSF access road adjacent to West Armory Way and where it connects to EBI 8 at the Interbay Athletic Complex. The bypass pipe will be in wetland and buffer, and the portions that must be in wetlands will be above ground, except at the corner of the athletic complex. Where temporary fill in wetlands is required, fill material will be temporarily placed to support the bypass pipe structure and will be removed after 1.5 years. Fill material will consist of typical City of Seattle-standard gravel backfill material. Equipment on site will include excavators used for moving the pipe and concrete barriers into place, and welding equipment. Operation of the pipe will vary with the construction activities and will be off-line during the wet weather winter season.

**Rehabilitation of 48-inch dual force mains:** The project will rehabilitate the 48-inch dual force mains with structural cured-in-place pipe (CIPP) to provide a reliable conveyance of wastewater to the FMDS. Equipment on site will include several trucks, including a boiler unit for the hot water cure process. After cooling, the cure water will be discharged into the County sewer system. No excavation is needed for the CIPP work.

**EBI 8 gravity pipe rehabilitation:** The project will rehabilitate approximately 2,000 feet of the pipe immediately north of the FMDS to MH W10-105 by installing a geopolymer lining to the inside surface of the pipe. Equipment will include several trucks needed for mixing and spraying the geopolymer. The tops of MHs W10-105, -106, and -107 will also be raised up to 4 feet using precast concrete MH components to improve access to the pipe and facilitate the rehabilitation work. No excavation is needed for the geopolymer or raising of the MHs.

**Rehabilitation of force main discharge structure:** This project will rehabilitate the FMDS to protect against corrosion from high levels of H<sub>2</sub>S off-gassing in this structure by repairing the existing plastic liner system and providing a new coating system below the existing lining. Portions of the FMDS will be demolished or raised to match other sections of the facility. Equipment on site will include concrete cutting equipment, excavators for assisting with demolition, and concrete truck(s). No excavation or clearing is needed for the FMDS rehabilitation.

**New odor control facility at the FMDS site:** A permanent OCF will be added to the FMDS site to treat excessive odors, such as hydrogen sulfide (H<sub>2</sub>S). A building for electrical and mechanical equipment will be constructed. Water service and a stormwater drainpipe will also be extended to the OCF from the adjacent road right of way and will connect to City of Seattle systems. Equipment on site will include excavators, concrete trucks, and impact pile-driving equipment.

**New access road to the FMDS site:** Access to the FMDS site will be replaced by extending W Armory Way that currently terminates with a cul-de-sac south of the FMDS site. The existing gravel/dirt roadway in the W Wheeler right-of-way (ROW) will be abandoned. Equipment will include earthmoving equipment, compactor, trucks, and paving equipment.

**6f.** What are the anticipated start and end dates for project construction? (Month/Year) [\[help\]](#)

- If the project will be constructed in phases or stages, use [JARPA Attachment D](#) to list the start and end dates of each phase or stage.

Start Date: September 2022

End Date: February 2025

See JARPA Attachment D

**6g.** Fair market value of the project, including materials, labor, machine rentals, etc. [\[help\]](#)

\$33 Million

**6h.** Will any portion of the project receive federal funding? [\[help\]](#)

- If **yes**, list each agency providing funds.

Yes    No    Don't know

## Part 7–Wetlands: Impacts and Mitigation

- Check here if there are wetlands or wetland buffers on or adjacent to the project area.  
(If there are none, skip to Part 8.) [\[help\]](#)

<b>7a.</b> Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. <a href="#">[help]</a>
<input type="checkbox"/> Not applicable
<p>The avoidance and minimization of critical area impacts was a guiding principle in the preliminary design of this project. The project will result in no permanent impacts to wetlands. The project will rehabilitate 2,000 feet of the Elliott Bay Interceptor Section 8 (EBI 8) by accessing three maintenance hole locations. This process significantly reduces wetland impacts compared to replacing the pipe or other lining methods. The temporary bypass pipe was designed to avoid wetlands to the extent possible and minimize wetland impact where pipe placement is unavoidable. Upgrades to the force main discharge structure (FMDS) and construction of the proposed odor control facility (OCF) were designed to avoid surrounding wetlands. The new access road was also designed to avoid wetland impacts.</p> <p>Best management practices (BMPs) will be implemented to avoid or reduce adverse impacts on wetland and wetland buffers during construction. BMPs for erosion control will be installed before ground-disturbing activities begin. Typical measures that may be used include installing filter fabric fences and other sediment barriers, placing silt traps in storm drain inlets, covering soil stockpiles and exposed soils, and using settling facilities to prevent sediment from leaving the site. Significant long-term water quality impacts are not expected if erosion control BMPs and spill-containment measures are properly implemented, monitored, and maintained during construction.</p>
<b>7b.</b> Will the project impact wetlands? <a href="#">[help]</a>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know   (temporary wetland impact)
<b>7c.</b> Will the project impact wetland buffers? <a href="#">[help]</a>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
<b>7d.</b> Has a wetland delineation report been prepared? <a href="#">[help]</a>
<ul style="list-style-type: none"><li>• <b>If Yes</b>, submit the report, including data sheets, with the JARPA package.</li></ul>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>7e.</b> Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? <a href="#">[help]</a>
<ul style="list-style-type: none"><li>• <b>If Yes</b>, submit the wetland rating forms and figures with the JARPA package.</li></ul>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
<b>7f.</b> Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? <a href="#">[help]</a>
<ul style="list-style-type: none"><li>• <b>If Yes</b>, submit the plan with the JARPA package and answer 7g.</li><li>• <b>If No, or Not applicable</b>, explain below why a mitigation plan should not be required.</li></ul>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know

**7g. Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [help]**

The County plans to restore in place the wetland and wetland buffer temporarily impacted by the project. This includes restoring 0.14 acre of wetland and 0.77 acre of wetland buffer. Currently the site is highly degraded by trash and other anthropogenic disturbances and is dominated by a variety of invasive species. Restoration of the temporarily impacted wetland and wetland buffer will provide a significant functional lift to the area compared to conditions prior to mitigation. The goal of these mitigation efforts is to create complex native vegetation structure and enhance functions of the wetlands and associated buffer. Invasive species will be cleared from the site and native scrub-shrub and emergent vegetation planted/seeded in place. The site would be monitored on an annual basis for 5 years. Any plant mortality would be replaced within the first monitoring year. Invasive species would be monitored and removed as necessary, and trash/anthropogenic disturbances will be removed on a yearly basis at the minimum.

Wetlands will be temporarily impacted from spring 2023 to fall 2024. These impacts are considered long-term temporary because they last longer than one year. Long-term temporary impacts may require a temporal loss factor in addition to restoring the temporarily impacted areas. However, current mitigation guidelines state that if the wetlands to be impacted are dominated by non-native vegetation, restoration of the affected wetland with native species and proper monitoring is generally all that is required. In this case, the wetland areas temporarily impacted by the project are mostly non-native invasive emergent vegetation, primarily dominated by reed canarygrass, with the remaining wetland temporary impact areas primarily dominated by Himalayan blackberry. Therefore, a temporal loss factor was not included in the proposed mitigation approach.

**7h. Use the table below to list the type and rating of each wetland impacted, the extent and duration of the impact, and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [help]**

Activity (fill, drain, excavate, flood, etc.)	Wetland Name <sup>1</sup>	Wetland type and rating category <sup>2</sup>	Impact area (sq. ft. or Acres)	Duration of impact <sup>3</sup>	Proposed mitigation type <sup>4</sup>	Wetland mitigation area (sq. ft. or acres)
Fill associated with the project	Wetland A	Depressional/ Category III	5,241 SF	1.5 years	Restore in-place	5,241 SF
Fill authorized by USACE by a separate applicant under authorization NWS-2020-158	Wetland A	Depressional/ Category III	449 SF	permanent	See separate applicant under authorization NWS-2020-158	See separate applicant under authorization NWS-2020-158
Fill	Wetland C	Depressional/ Category III	457 SF	1.5 years	Restore in-place	457 SF
Fill	Wetland D	Depressional/ Category IV	271 SF	1.5 years	Restore in-place	271 SF

<sup>1</sup> If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.

<sup>2</sup> Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

<sup>3</sup> Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

<sup>4</sup> Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: \_\_\_\_\_

**7i.** For all filling activities identified in 7h, describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

Fill material will be temporarily placed to support the bypass pipe structure and will be removed after 1.5 years. Fill material will consist of typical City-standard gravel backfill material.

Wetland A- 183 CY (Fill associated with the project)

(See separate applicant under authorization NWS-2020-158 for the additional Wetland A fill quantity)

Wetland C- 49 CY

Wetland D- 10 CY

**7j.** For all excavating activities identified in 7h, describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

There are no excavation activities within wetlands associated with this project.

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

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

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

<b>8a.</b> Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. <a href="#">[help]</a>					
<input checked="" type="checkbox"/> Not applicable					
There are no non-wetland waterbodies in the project area.					
<b>8b.</b> Will your project impact a waterbody or the area around a waterbody? <a href="#">[help]</a>					
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
<b>8c.</b> Have you prepared a mitigation plan to compensate for the project’s adverse impacts to non-wetland waterbodies? <a href="#">[help]</a>					
<ul style="list-style-type: none"> <li>• <b>If Yes</b>, submit the plan with the JARPA package and answer 8d.</li> <li>• <b>If No, or Not applicable</b>, explain below why a mitigation plan should not be required.</li> </ul>					
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don’t know					
Not applicable					
<b>8d.</b> Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.					
<ul style="list-style-type: none"> <li>• If you already completed 7g you do not need to restate your answer here. <a href="#">[help]</a></li> </ul>					
Not applicable					
<b>8e.</b> Summarize impact(s) to each waterbody in the table below. <a href="#">[help]</a>					
Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name <sup>1</sup>	Impact location <sup>2</sup>	Duration of impact <sup>3</sup>	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Not applicable					
<p><sup>1</sup> If no official name for the waterbody exists, create a unique name (such as “Stream 1”) The name should be consistent with other documents provided.</p> <p><sup>2</sup> Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.</p> <p><sup>3</sup> Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter “permanent” if applicable.</p>					
<b>8f.</b> For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. <a href="#">[help]</a>					
Not applicable					
<b>8g.</b> For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. <a href="#">[help]</a>					
Not applicable					

## Part 9—Additional Information

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

<b>9a.</b> If you have already worked with any government agencies on this project, list them below. <a href="#">[help]</a>			
Agency Name	Contact Name	Phone	Most Recent Date of Contact
N/A			
<b>9b.</b> Are any of the wetlands or waterbodies identified in Part 7 or Part 8 of this JARPA on the Washington Department of Ecology's 303(d) List? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• If <b>Yes</b>, list the parameter(s) below.</li> <li>• If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: <a href="https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d">https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d</a>.</li> </ul>			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>9c.</b> What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• Go to <a href="http://cfpub.epa.gov/surf/locate/index.cfm">http://cfpub.epa.gov/surf/locate/index.cfm</a> to help identify the HUC.</li> </ul>			
17110019 - Puget Sound, Washington			
<b>9d.</b> What Water Resource Inventory Area Number (WRIA #) is the project in? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• Go to <a href="https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up">https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up</a> to find the WRIA #.</li> </ul>			
Cedar Sammamish watershed – Water Resource Inventory Area (WRIA) 8. (Interbay/Seattle, WA)			
<b>9e.</b> Will the in-water construction work comply with the State of Washington water quality standards for turbidity? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• Go to <a href="https://ecology.wa.gov/Water-Shorelines/Water-quality/Freshwater/Surface-water-quality-standards/Criteria">https://ecology.wa.gov/Water-Shorelines/Water-quality/Freshwater/Surface-water-quality-standards/Criteria</a> for the standards.</li> </ul>			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable			
<b>9f.</b> If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• If you don't know, contact the local planning department.</li> <li>• For more information, go to: <a href="https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/Shoreline-laws-rules-and-cases">https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/Shoreline-laws-rules-and-cases</a>.</li> </ul>			
<input type="checkbox"/> Urban <input type="checkbox"/> Natural <input type="checkbox"/> Aquatic <input type="checkbox"/> Conservancy <input type="checkbox"/> Other: _____			
<b>9g.</b> What is the Washington Department of Natural Resources Water Type? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• Go to <a href="http://www.dnr.wa.gov/forest-practices-water-typing">http://www.dnr.wa.gov/forest-practices-water-typing</a> for the Forest Practices Water Typing System.</li> </ul>			
<input type="checkbox"/> Shoreline <input type="checkbox"/> Fish <input type="checkbox"/> Non-Fish Perennial <input type="checkbox"/> Non-Fish Seasonal			
<b>9h.</b> Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? <a href="#">[help]</a>			
<ul style="list-style-type: none"> <li>• If <b>No</b>, provide the name of the manual your project is designed to meet.</li> </ul>			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Name of manual: _____			

**9i.** Does the project site have known contaminated sediment? [\[help\]](#)

- If Yes, please describe below.

Yes    No

Yes, the project site contains contaminated sediments. Contaminated sediment in and around the project sites includes, but is not limited to, the following compounds: halogenated organics, metals, pesticides, petroleum hydrocarbons, methane gas, solvents, creosote, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCB), and contaminated soils from various spills, including diesel. Sites of concern in close proximity include the BNSF Balmer Rail Yard, Washington Army National Guard, BNSF Railway Trainyard and the Old Interbay Landfill.

**9j.** If you know what the property was used for in the past, describe below. [\[help\]](#)

Prior to development in the late 1800s, the project area consisted of low-lying tidal mudflats, until they were filled in. From 1930 to 1964, multiple large industrial features were constructed. During this time, the large railyard to the west of the alignment was in use. The area north of the railyard was largely undeveloped and appeared to still be tidal flats. By the mid-1960s, more development led to the shrinking and filling-in of Smith Cove. The project area experienced an extended period of industrial warehouse-style building construction. Heavy industry dominated the area. The Interbay Landfill directly east of the alignment, 55 acres in size, was established in 1911. This land was turned over to the Seattle Parks Department in 1963 and leased as a golf course. This is also the site of the Interbay Athletic Field.

**9k.** Has a cultural resource (archaeological) survey been performed on the project area? [\[help\]](#)

- If Yes, attach it to your JARPA package.

Yes  

**9l.** Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [\[help\]](#)

An official list of species to be considered under ESA Section 7 was obtained from the United States Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) online application on January 6, 2021. Because the action area does not include aquatic habitats, no ESA-listed species or critical habitat under National Marine Fisheries Service (NMFS) jurisdiction use habitats in the action area. No critical habitat of has been identified within the project area. USFWS identified the following ESA-listed species as having the potential to be affected by project-related activities:

- Grey Wolf (*Canis lupus*) (delisted)
- Marbled Murrelet (*Brachyramphus marmoratus*) (Threatened)
- Streaked Horned Lark (*Eremophila alpestris strigata*) (Threatened)
- Yellow-billed Cuckoo (*Coccyzus americanus*) (Threatened)
- Bull trout (*Salvelinus confluentus*) (Threatened)

None of these species are expected to be in the action area. Please refer to the biological evaluation for more details (Parametrix 2021).

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

WDFW's PHS online mapper identifies freshwater emergent wetlands within the project area. No species are identified within the project area. Other mapped PHS habitats and species are over 2,000 feet away from the project area and are not expected to be affected by the proposed work.

## Part 10–SEPA Compliance and Permits

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

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

### 10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [\[help\]](#)

- For more information about SEPA, go to **Error! Hyperlink reference not valid.**<https://ecology.wa.gov/regulations-permits/SEPA-environmental-review>.

A copy of the SEPA determination or letter of exemption is included with this application.

A SEPA determination is pending with King County (lead agency). The expected decision date is April 2021.

I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [\[help\]](#)

This project is exempt (choose type of exemption below).

Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?

\_\_\_\_\_

Other: \_\_\_\_\_

SEPA is pre-empted by federal law.

### 10b. Indicate the permits you are applying for. (Check all that apply.) [\[help\]](#)

#### LOCAL GOVERNMENT

##### Local Government Shoreline permits:

Substantial Development     Conditional Use     Variance

Shoreline Exemption Type (explain): \_\_\_\_\_

##### Other City/County permits:

Floodplain Development Permit     Critical Areas Ordinance

#### STATE GOVERNMENT

##### Washington Department of Fish and Wildlife:

Hydraulic Project Approval (HPA)     Fish Habitat Enhancement Exemption – [Attach Exemption Form](#)

##### Washington Department of Natural Resources:

Aquatic Use Authorization

Complete [JARPA Attachment E](#) and submit a check for \$25 payable to the Washington Department of Natural Resources.

**Do not send cash.**

##### Washington Department of Ecology:

Section 401 Water Quality Certification     Non-Federally Regulated Waters

**FEDERAL AND TRIBAL GOVERNMENT**

**United States Department of the Army (U.S. Army Corps of Engineers):**

Section 404 (discharges into waters of the U.S.)     Section 10 (work in navigable waters)

**United States Coast Guard:**

For projects or bridges over waters of the United States, contact the U.S. Coast Guard at: [d13-pf-d13bridges@uscg.mil](mailto:d13-pf-d13bridges@uscg.mil)

Bridge Permit                                       Private Aids to Navigation (or other non-bridge permits)

**United States Environmental Protection Agency:**

Section 401 Water Quality Certification (discharges into waters of the U.S.) on tribal lands where tribes do not have treatment as a state (TAS)

**Tribal Permits:** (Check with the tribe to see if there are other tribal permits, e.g., Tribal Environmental Protection Act, Shoreline Permits, Hydraulic Project Permits, or other in addition to CWA Section 401 WQC)

Section 401 Water Quality Certification (discharges into waters of the U.S.) where the tribe has treatment as a state (TAS).

## Part 11—Authorizing Signatures

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

### 11a. Applicant Signature (required) [\[help\]](#)

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

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

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

---

Applicant Printed Name

Applicant Signature

Date

### 11b. Authorized Agent Signature [\[help\]](#)

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

---

Authorized Agent Printed Name

Authorized Agent Signature

Date

### 11c. Property Owner Signature (if not applicant) [\[help\]](#)

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

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

---

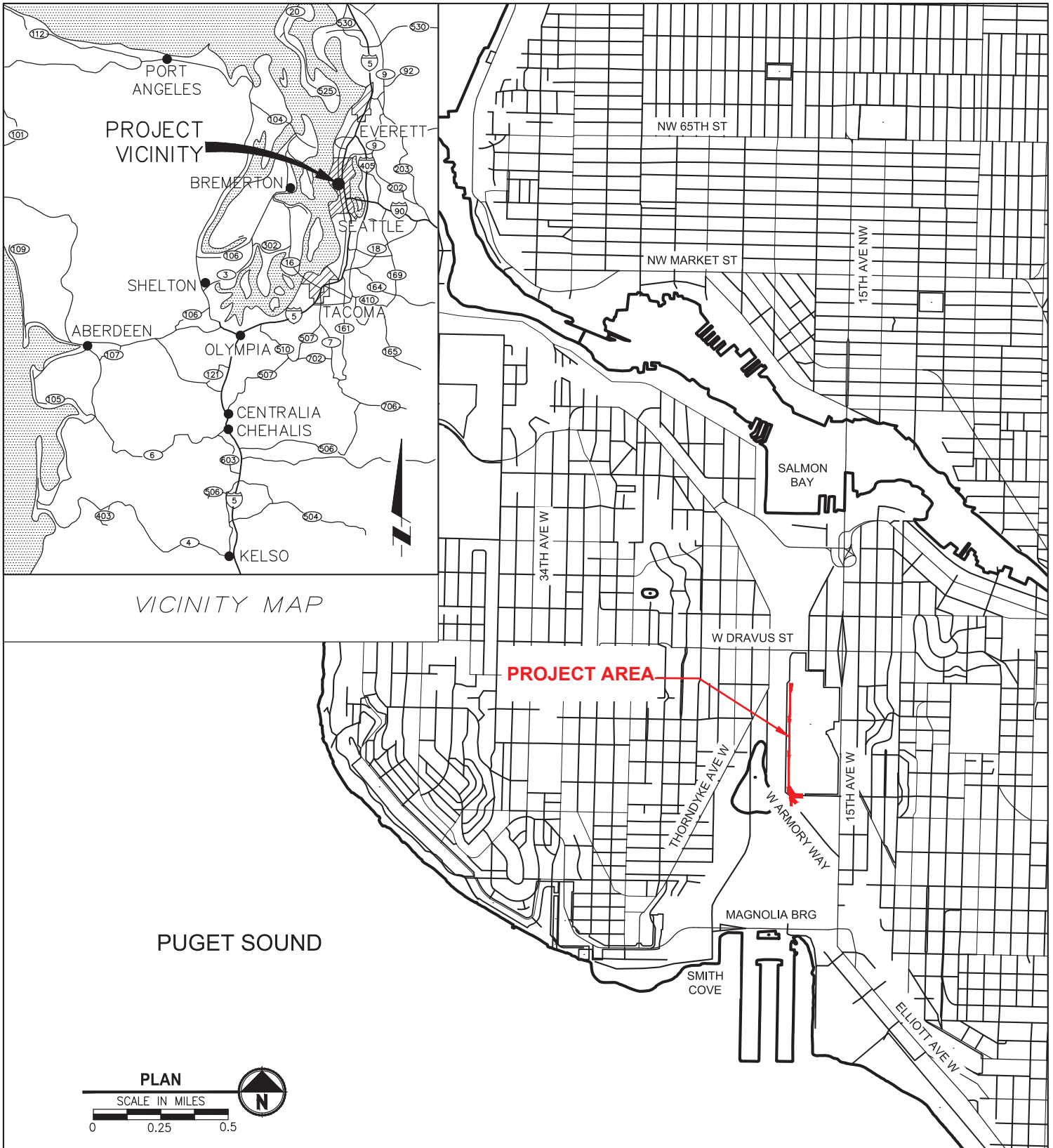
Property Owner Printed Name

Property Owner Signature

Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 09/2018



**FIGURE 1. PROJECT VICINITY**

REFERENCE: TBD

APPLICANT: KING COUNTY

**DATUM:** VERT: NAVD 88  
HORIZ: NAD 83/91 WA NORTH

ADJACENT PROPERTY OWNERS:  
SEE FIGURE 2 OF 8

**INTERBAY CONVEYANCE  
REHABILITATION & ODOR CONTROL**

LOCATION:  
KING COUNTY PROPERTY ADJACENT TO  
INTERBAY GOLF CENTER AND BNSF  
RAILYARD FROM W ARMORY WAY TO  
INTERBAY ATHLETIC COMPLEX

LAT/LONG: FROM 47.6404°N / -122.3799°W  
TO 47.6466°N / -122.3803°W

PAGE 1  
DATE: MAY 4, 2021

PROPOSED PROJECT:  
REHABILITATION OF EXISTING EBI-8 PIPE AND  
INSTALLATION OF TEMPORARY BYPASS PIPE.

IN: SMITH COVE / SALMON BAY (PUGET SOUND)  
NEAR/AT: SEATTLE  
COUNTY: KING  
STATE: WA

# ADJACENT PROPERTIES

OWNER	PARCEL #
CITY OF SEATTLE PARKS	2771108090
BNSF	2771102720
	2771605175
	2771102945
	2771605170
	2771104455
	2771605161
	2771600160
	2325039019
2325039016	
7666201441	
7666201525	
7666201440	
STATE OF WA	7666201147
SEATTLE INVESTMENTS LLC	2325039017
1700 W ARMORY LLC	2771600908
PORT 106 LLC	2771600909

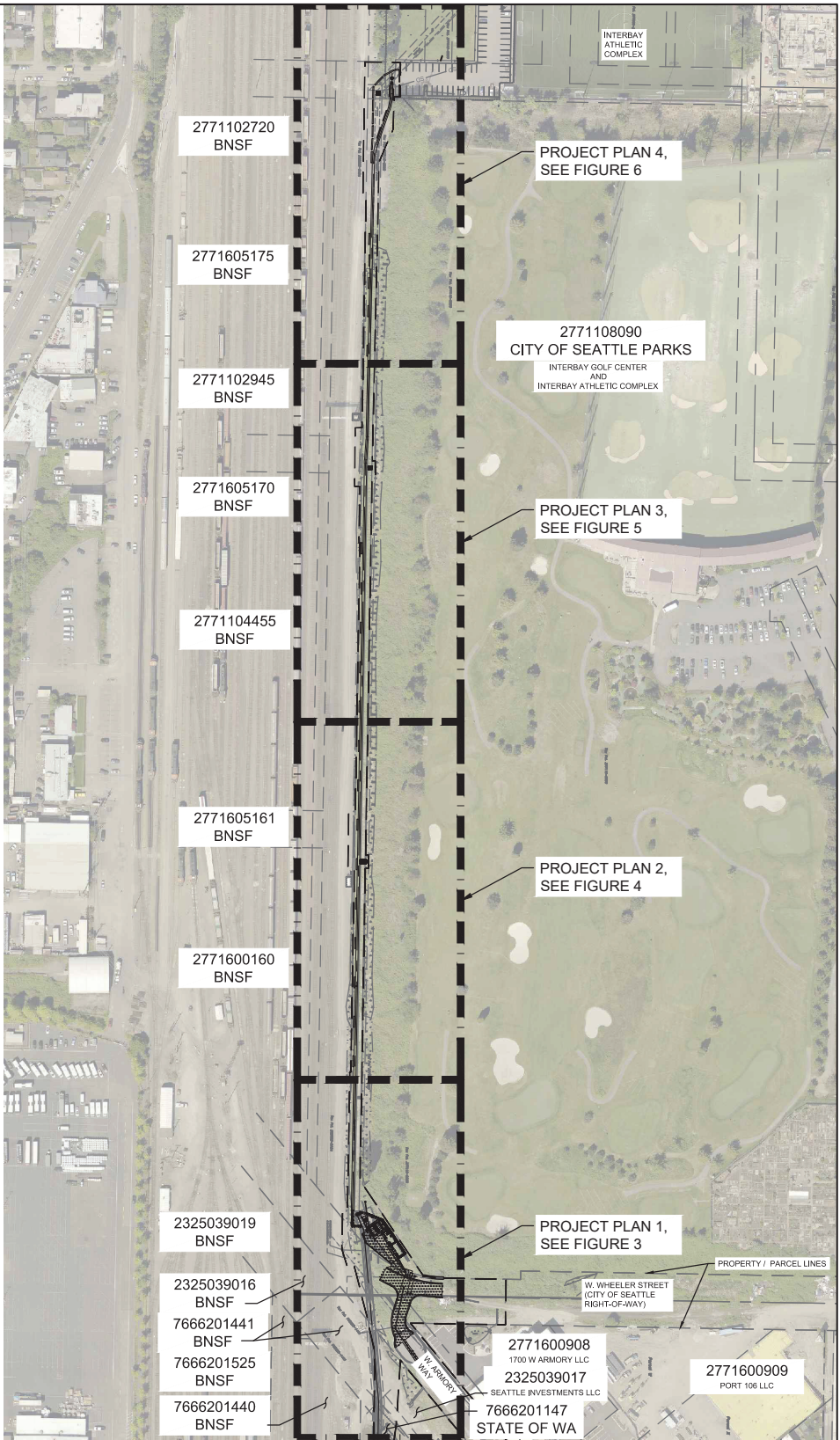


FIGURE 2. OVERVIEW & KEY MAP

REFERENCE: TBD

APPLICANT: KING COUNTY

**DATUM:** VERT: NAVD 88  
HORIZ: NAD 83/91 WA NORTH

ADJACENT PROPERTY OWNERS:  
SEE FIGURE 2 OF 8






**INTERBAY CONVEYANCE  
REHABILITATION & ODOR CONTROL**  
LOCATION:  
KING COUNTY PROPERTY ADJACENT TO  
INTERBAY GOLF CENTER AND BNSF  
RAILYARD FROM W ARMORY WAY TO  
INTERBAY ATHLETIC COMPLEX  
LAT/LONG: FROM 47.6404°N / -122.3799°W  
TO 47.6466°N / -122.3803°W  
PAGE 2  
DATE: MAY 4, 2021

**PROPOSED PROJECT:**  
REHABILITATION OF EXISTING EBI-8 PIPE AND  
INSTALLATION OF TEMPORARY BYPASS PIPE.

IN: SMITH COVE / SALMON BAY (PUGET SOUND)  
NEAR/AT: SEATTLE  
COUNTY: KING  
STATE: WA

MATCHLINE - SEE PAGE 4

IMPACT LEGEND (THIS SHEET ONLY)

-  TEMP. WETLAND IMPACTS  
- 2,953 SF
-  PERM. BUFFER IMPACTS  
- 4,583 SF
-  TEMP. BUFFER IMPACTS (HERBACEOUS)  
- 3,252 SF
-  TEMP. BUFFER IMPACTS (SHRUB)  
- 6,997 SF
-  WETLAND IMPACTS BY OTHERS  
(authorized by USACE under NWS-2020-158)

RESTORATION NOTES

1. RESTORE ALL DISTURBED AREAS IN PLACE.
2. SEE FIGURE 8 FOR SUMMARY IMPACT LEGEND.

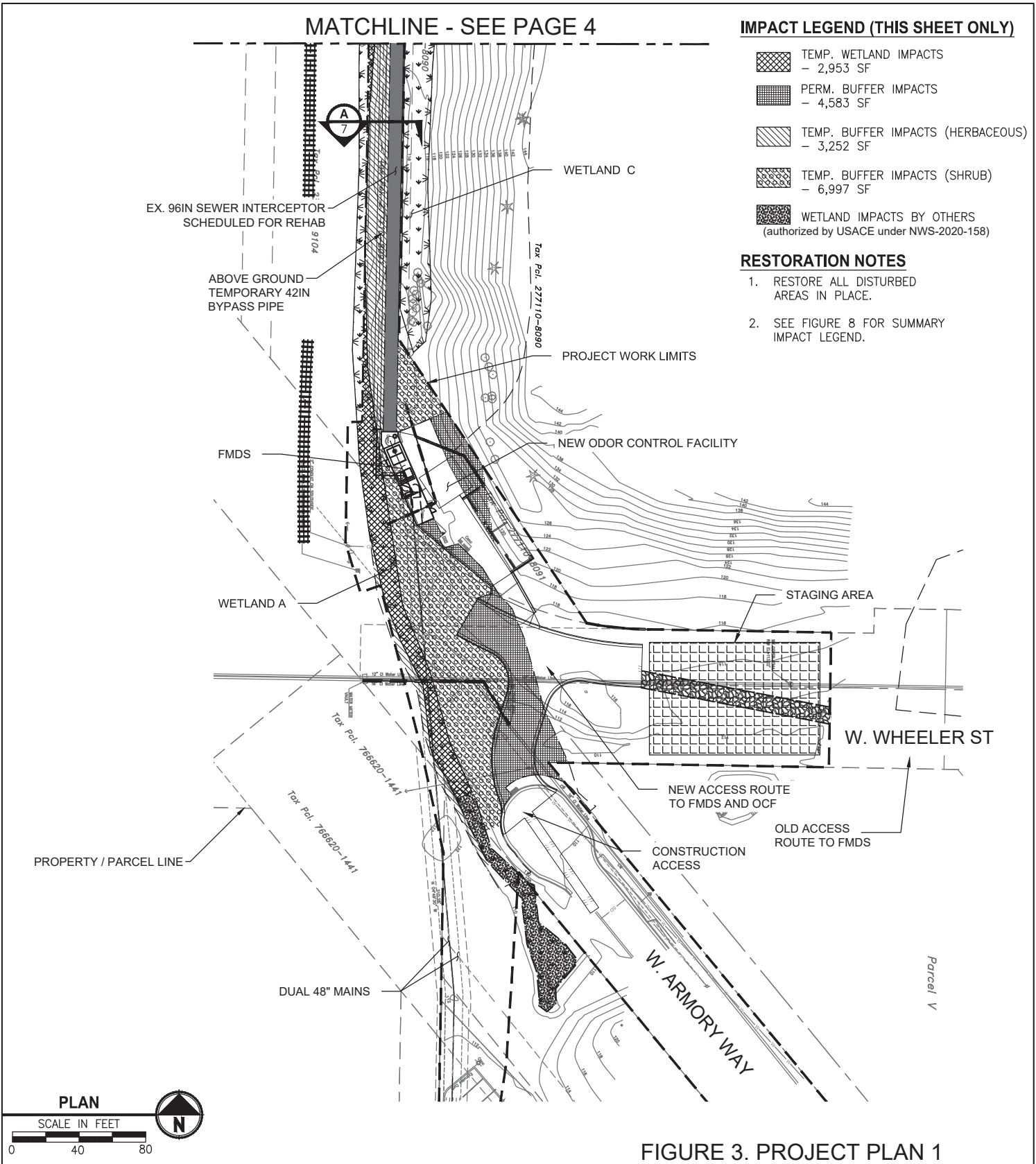


FIGURE 3. PROJECT PLAN 1

REFERENCE: TBD

APPLICANT: KING COUNTY

**DATUM:** VERT: NAVD 88  
HORIZ: NAD 83/91 WA NORTH

ADJACENT PROPERTY OWNERS:  
SEE FIGURE 2 OF 8






INTERBAY CONVEYANCE  
REHABILITATION & ODOR CONTROL  
LOCATION:  
KING COUNTY PROPERTY ADJACENT TO  
INTERBAY GOLF CENTER AND BNSF  
RAILYARD FROM W ARMORY WAY TO  
INTERBAY ATHLETIC COMPLEX  
LAT/LONG: FROM 47.6404°N / -122.3799°W  
TO 47.6466°N / -122.3803°W  
PAGE 3  
DATE: MAY 4, 2021

PROPOSED PROJECT:  
REHABILITATION OF EXISTING EBI-8 PIPE AND  
INSTALLATION OF TEMPORARY BYPASS PIPE.

IN: SMITH COVE / SALMON BAY (PUGET SOUND)  
NEAR/AT: SEATTLE  
COUNTY: KING  
STATE: WA

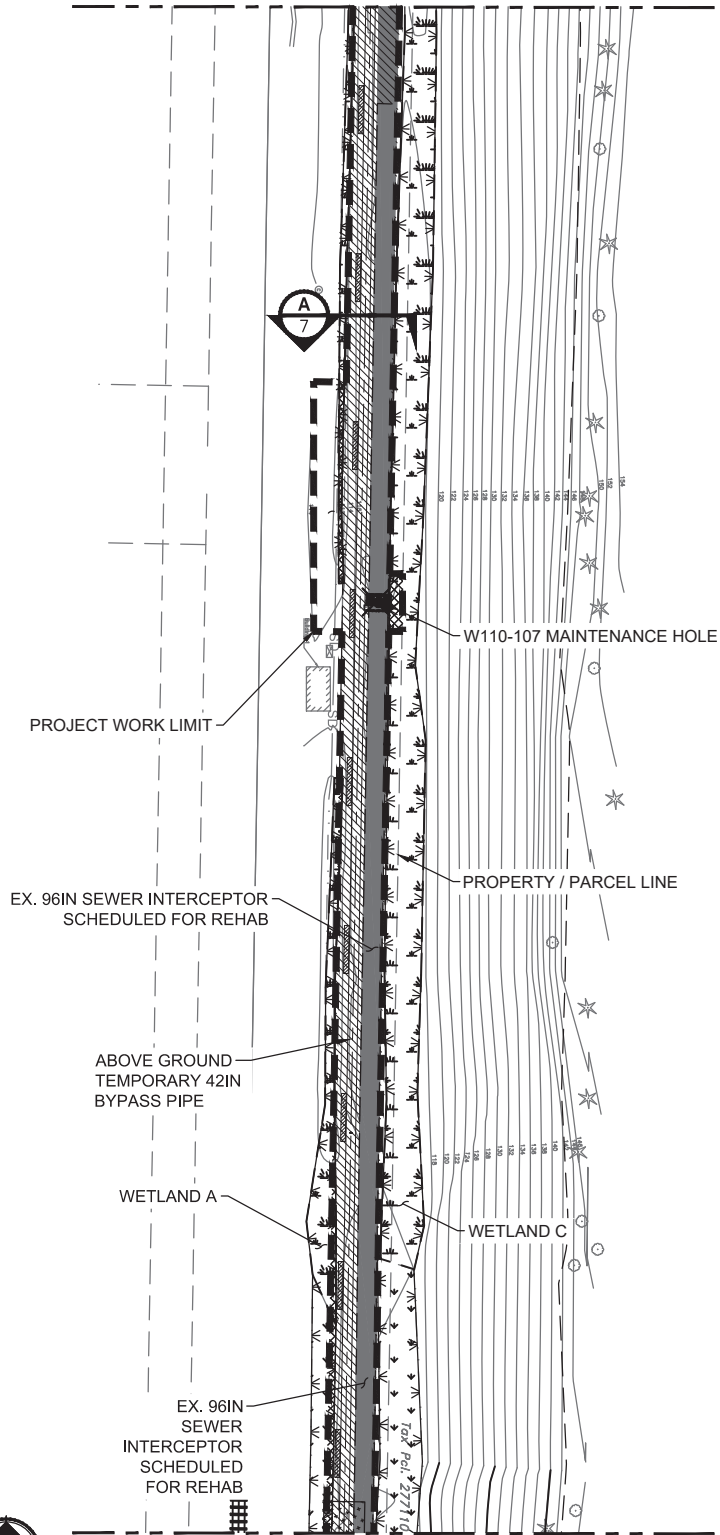
MATCHLINE - SEE PAGE 5

**IMPACT LEGEND (THIS SHEET ONLY)**

-  TEMP. WETLAND IMPACTS  
- 713 SF
-  PERM. BUFFER IMPACTS  
- 4 SF
-  TEMP. BUFFER IMPACTS (HERBACEOUS)  
- 7,254 SF
-  TEMP. BUFFER IMPACTS (SHRUB)  
- 0 SF
-  WETLAND IMPACTS BY OTHERS

**RESTORATION NOTES**

1. RESTORE ALL DISTURBED AREAS IN PLACE.
2. SEE FIGURE 8 FOR SUMMARY IMPACT LEGEND.



MATCHLINE - SEE PAGE 3

PLAN

SCALE IN FEET

0 40 80



**FIGURE 4. PROJECT PLAN 2**

REFERENCE: TBD

APPLICANT: KING COUNTY

**DATUM:** VERT: NAVD 88  
HORIZ: NAD 83/91 WA NORTH

ADJACENT PROPERTY OWNERS:  
SEE FIGURE 2 OF 8

**INTERBAY CONVEYANCE  
REHABILITATION & ODOR CONTROL**

LOCATION:  
KING COUNTY PROPERTY ADJACENT TO  
INTERBAY GOLF CENTER AND BNSF  
RAILYARD FROM W ARMORY WAY TO  
INTERBAY ATHLETIC COMPLEX

LAT/LONG: FROM 47.6404°N / -122.3799°W  
TO 47.6466°N / -122.3803°W






PAGE 4  
DATE: MAY 4, 2021

PROPOSED PROJECT:  
REHABILITATION OF EXISTING EBI-8 PIPE AND  
INSTALLATION OF TEMPORARY BYPASS PIPE.

IN: SMITH COVE / SALMON BAY (PUGET SOUND)  
NEAR/AT: SEATTLE  
COUNTY: KING  
STATE: WA

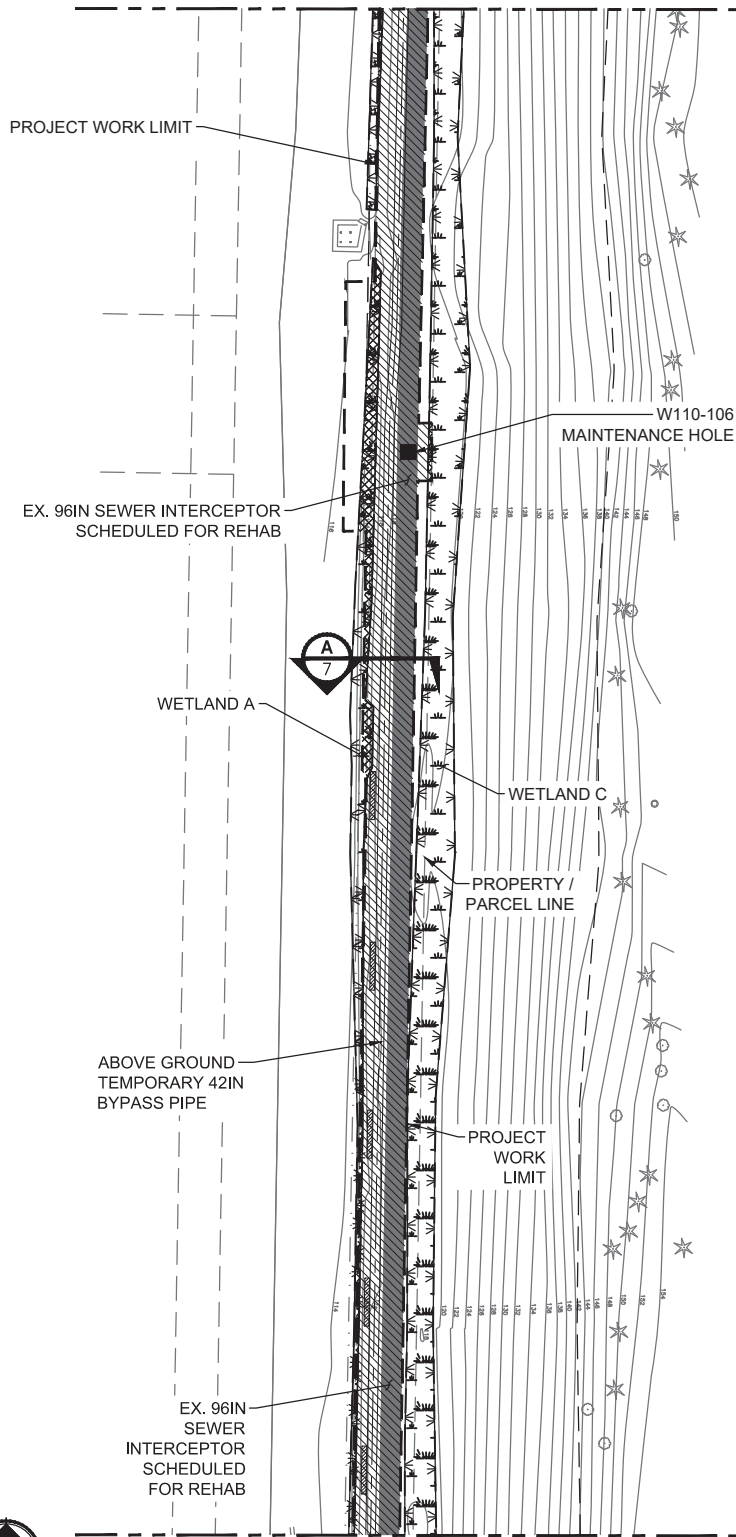
MATCHLINE - SEE PAGE 6

**IMPACT LEGEND (THIS SHEET ONLY)**

-  TEMP. WETLAND IMPACTS  
- 1,098 SF
-  PERM. BUFFER IMPACTS  
- 38 SF
-  TEMP. BUFFER IMPACTS (HERBACEOUS)  
- 11,883 SF
-  TEMP. BUFFER IMPACTS (SHRUB)  
- 0 SF
-  WETLAND IMPACTS BY OTHERS

**RESTORATION NOTES**

1. RESTORE ALL DISTURBED AREAS IN PLACE.
2. SEE FIGURE 8 FOR SUMMARY IMPACT LEGEND.



MATCHLINE - SEE PAGE 4

**FIGURE 5. PROJECT PLAN 3**

REFERENCE: TBD

APPLICANT: KING COUNTY

**DATUM:** VERT: NAVD 88  
HORIZ: NAD 83/91 WA NORTH






ADJACENT PROPERTY OWNERS:  
SEE FIGURE 2 OF 8

**INTERBAY CONVEYANCE  
REHABILITATION & ODOR CONTROL**  
LOCATION:  
KING COUNTY PROPERTY ADJACENT TO  
INTERBAY GOLF CENTER AND BNSF  
RAILYARD FROM W ARMORY WAY TO  
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LAT/LONG: FROM 47.6404°N / -122.3799°W  
TO 47.6466°N / -122.3803°W  
PAGE 5  
DATE: MAY 4, 2021

**PROPOSED PROJECT:**  
REHABILITATION OF EXISTING EBI-8 PIPE AND  
INSTALLATION OF TEMPORARY BYPASS PIPE.

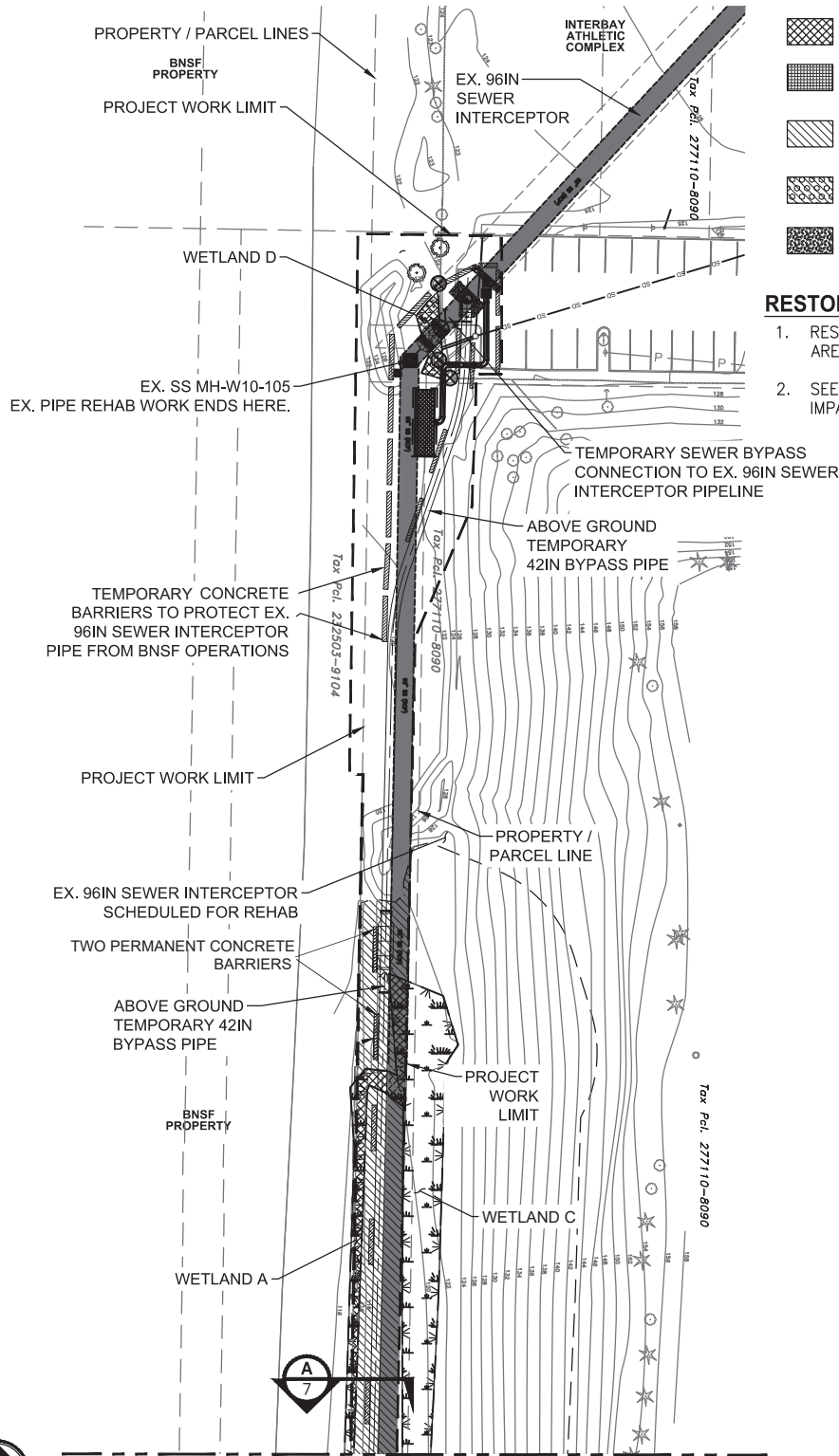
IN: SMITH COVE / SALMON BAY (PUGET SOUND)  
NEAR/AT: SEATTLE  
COUNTY: KING  
STATE: WA

**IMPACT LEGEND (THIS SHEET ONLY)**

-  TEMP. WETLAND IMPACTS  
- 1,205 SF
-  PERM. BUFFER IMPACTS  
- 80 SF
-  TEMP. BUFFER IMPACTS (HERBACEOUS)  
- 4,093 SF
-  TEMP. BUFFER IMPACTS (SHRUB)  
- 0 SF
-  WETLAND IMPACTS BY OTHERS

**RESTORATION NOTES**

1. RESTORE ALL DISTURBED AREAS IN PLACE.
2. SEE FIGURE 8 FOR SUMMARY IMPACT LEGEND.



PLAN

SCALE IN FEET

0 40 80



MATCHLINE - SEE PAGE 5

**FIGURE 6. PROJECT PLAN 4**

REFERENCE: TBD

APPLICANT: KING COUNTY

**DATUM:** VERT: NAVD 88  
HORIZ: NAD 83/91 WA NORTH

ADJACENT PROPERTY OWNERS:  
SEE FIGURE 2 OF 8

**INTERBAY CONVEYANCE  
REHABILITATION & ODOR CONTROL**

LOCATION:  
KING COUNTY PROPERTY ADJACENT TO  
INTERBAY GOLF CENTER AND BNSF  
RAILYARD FROM W ARMORY WAY TO  
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PAGE 6  
DATE: MAY 4, 2021

PROPOSED PROJECT:  
REHABILITATION OF EXISTING EBI-8 PIPE AND  
INSTALLATION OF TEMPORARY BYPASS PIPE.

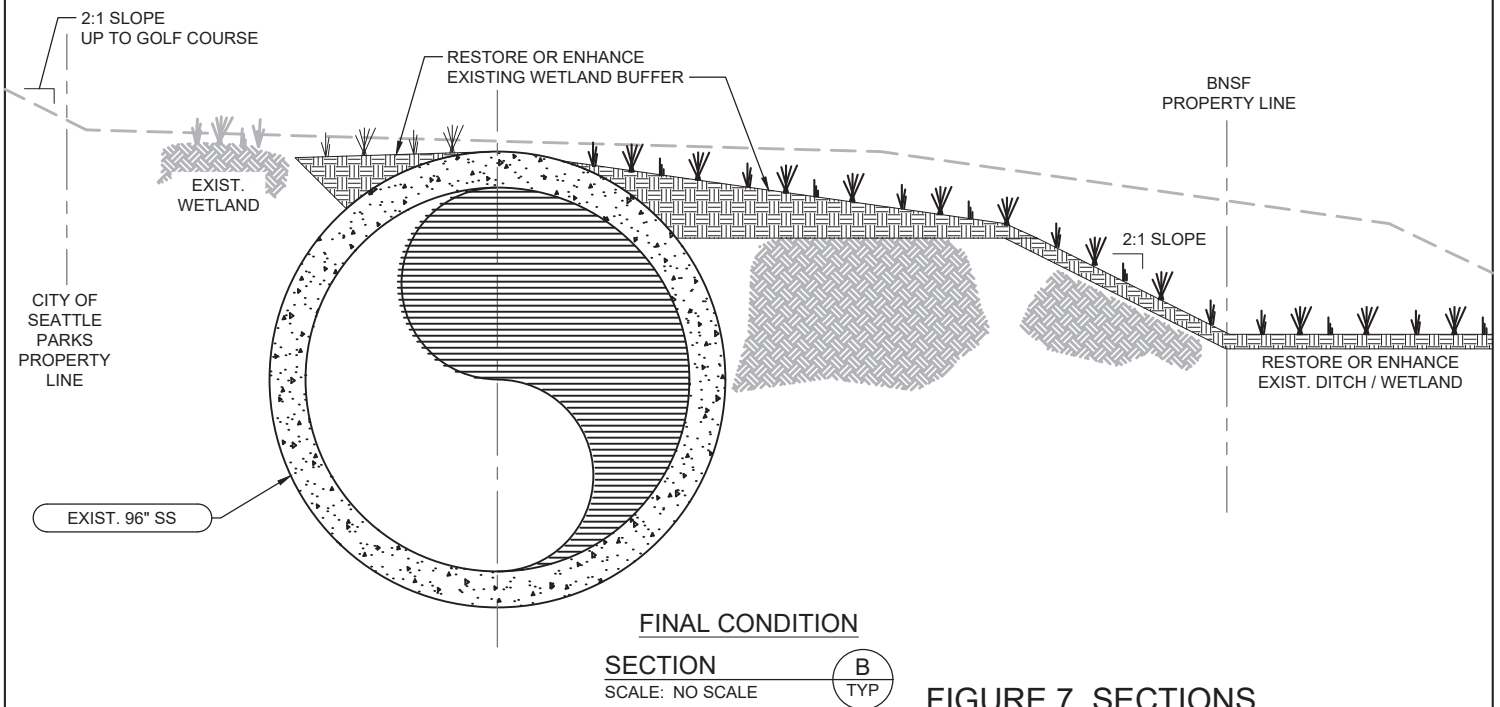
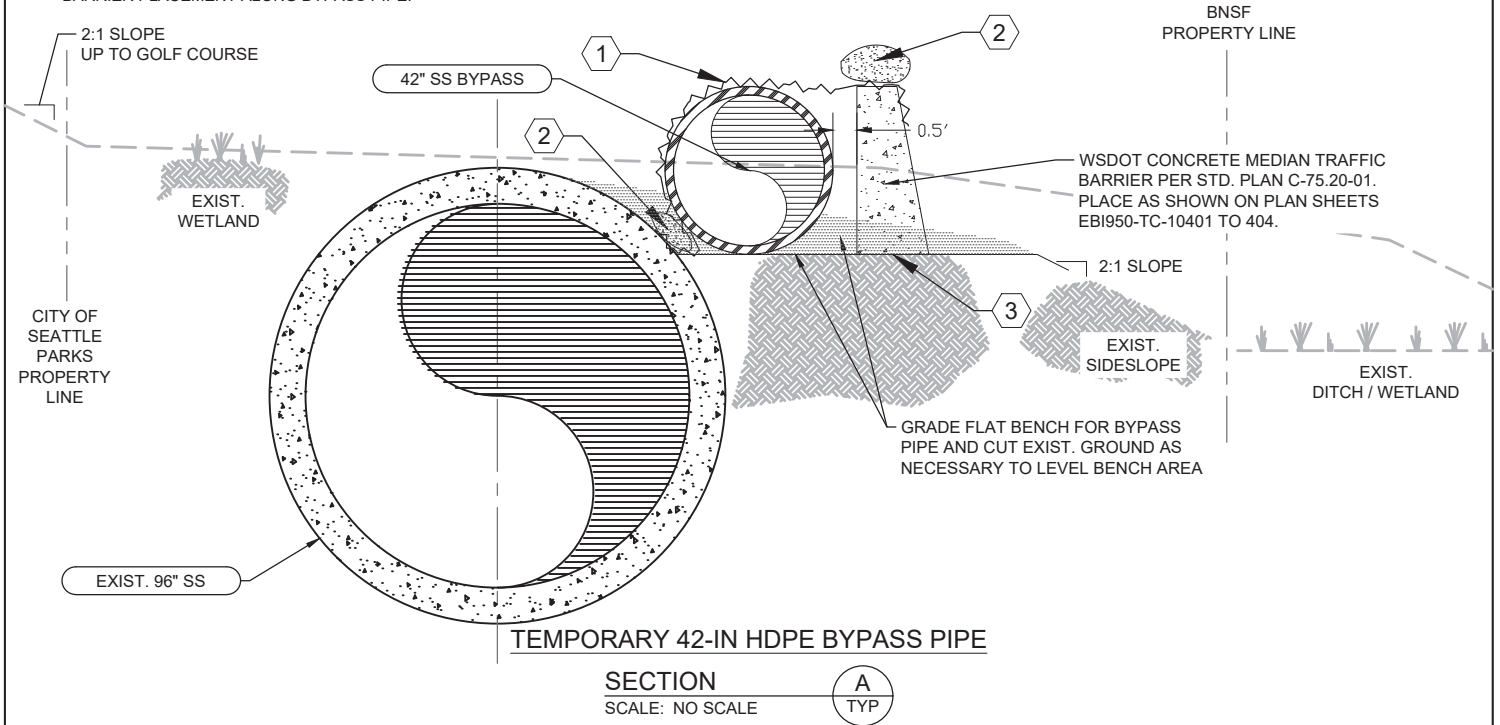
IN: SMITH COVE / SALMON BAY (PUGET SOUND)  
NEAR/AT: SEATTLE  
COUNTY: KING  
STATE: WA

**KEY NOTES:**

- 1 (BRAND-SPEC) THERMAL REFLECTION LINER (WHITE), WRAP LINER AROUND BYPASS PIPE AND SECURE WITH SANDBAGS TO REDUCE THERMAL IMPACT ON PIPE; LINER WILL HELP MITIGATE PIPE MOVEMENT DUE TO THERMAL EXPANSION / CONTRACTION.
- 2 STANDARD SANDBAG (SIZE AND TYPE), PLACE AND LOCATE NUMBER OF SANDBAGS AS REQUIRED TO HOLD THERMAL REFLECTION LINER IN PLACE AROUND BYPASS PIPE. (TYP.)
- 3 BARRIER ANCHORING SYSTEM, PIPE GUIDANCE RESTRAINT AND THEIR NECESSITY TO BE DETERMINED BY THE CONTRACTOR PER PROJECT SPECIFICATIONS. SEE DETAIL D THIS PLAN SHEET FOR BASIC DUAL BARRIER PLACEMENT ALONG BYPASS PIPE.

**NOTES:**






- 1. CONTRACTOR SHALL VERIFY DIMENSIONS, ELEVATIONS, AND LOCATIONS PRIOR TO CONSTRUCTION.
- 2. THE BYPASS PIPE GUIDING, BARRIERS AND ANCHORING ARRANGEMENT PRESENTED IS FOR BIDDING PURPOSES AND THE CONTRACTOR SHALL DESIGN IN ACCORDANCE WITH THE SPECIFICATION.



**FIGURE 7. SECTIONS**

<p>REFERENCE: TBD</p> <p>APPLICANT: KING COUNTY</p> <p><b>DATUM:</b> VERT: NAVD 88 HORIZ: NAD 83/91 WA NORTH</p> <p>ADJACENT PROPERTY OWNERS: SEE FIGURE 2 OF 8</p>	<p><b>INTERBAY CONVEYANCE REHABILITATION &amp; ODOR CONTROL</b></p> <p>LOCATION: KING COUNTY PROPERTY ADJACENT TO INTERBAY GOLF CENTER AND BNSF RAILYARD FROM W ARMORY WAY TO INTERBAY ATHLETIC COMPLEX LAT/LONG: FROM 47.6404°N / -122.3799°W TO 47.6466°N / -122.3803°W</p> <p>PAGE 7 DATE: MAY 4, 2021</p>	<p>PROPOSED PROJECT: REHABILITATION OF EXISTING EBI-8 PIPE AND INSTALLATION OF TEMPORARY BYPASS PIPE.</p> <p>IN: SMITH COVE / SALMON BAY (PUGET SOUND) NEAR/AT: SEATTLE COUNTY: KING STATE: WA</p>
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**IMPACT SUMMARY LEGEND**

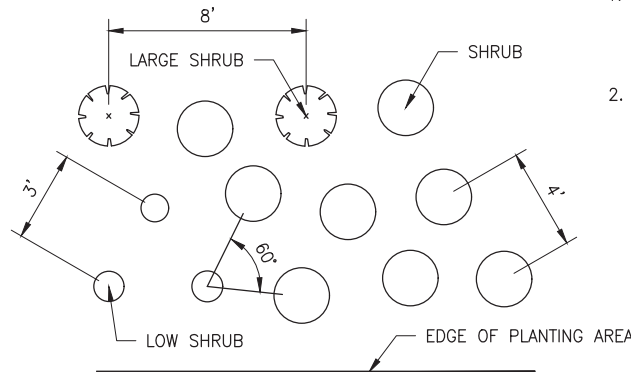
-  TEMP. WETLAND IMPACTS  
- 5,969 SF
-  PERM. BUFFER IMPACTS  
- 4,705 SF
-  TEMP. BUFFER IMPACTS (HERBACEOUS)  
- 26,482 SF
-  TEMP. BUFFER IMPACTS (SHRUB)  
- 6,997 SF
-  WETLAND IMPACTS BY OTHERS

**RESTORATION NOTES**

1. RESTORE ALL DISTURBED AREAS IN PLACE.

**PLANT MATERIAL LIST**

BOTANICAL NAME / COMMON NAME	NOTES	
 GAULTHERIA SHALLON / SALAL	LOCATE SHRUBS IN AREAS SHOWN IN PLANS FOR "BUFFER RESTORATION WITH SHRUBS" IN SINGLE SPECIES GROUPS OF 3 TO 7 SHRUBS EACH. #1 CONTAINERS SPACED AS SHOWN IN DETAIL 1 ON THIS SHEET.	
HOLODISCUS DISCOLOR / OCEANSPRAY		
MAHONIA AQUIFOLIUM / TALL OREGON GRAPE		
MAHONIA REPENS / CREEPING OREGON GRAPE		
ROSA NUTKANA / NOOTKA ROSE		
SYMPHORICARPOS ALBUS / SNOWBERRY		
 WET SEED MIX	(BLEND OF THREE APPROVED PERENNIAL RYE VARIETIES FROM THE SEATTLE STANDARD SPEC 9-14.2(1))	
SHALL CONSIST OF THE FOLLOWING:		
45% RICE CUTGRASS		
40% NW MANNAGRASS		
10% BLUEJOINT REEDGRASS		
3% SPIKE BENTGRASS		
2% WOOL-GRASS		
 DRY SEED MIX	(BLEND OF THREE APPROVED PERENNIAL RYE VARIETIES FROM THE SEATTLE STANDARD SPEC 9-14.2(1))	
SHALL CONSIST OF THE FOLLOWING:		
40% TURF-TYPE PERENNIAL RYE		
20% CREEPING RED FESCUE		
20% CHEWINGS FESCUE		
20% HARD FESCUE		



**SHRUB SPACING**

DETAIL 1 TYP  
SCALE: NO SCALE

**NOTES:**

1. PLANT SHRUBS IN SINGLE SPECIES GROUPS OF 5 TO 10 PLANTS EACH. PLANT TREES IN SINGLE SPECIES GROUPS OF 1 TO 5 PLANTS EACH.
2. ADJUST PLANT LOCATIONS SLIGHTLY SO PLANTINGS APPEAR TO BE IN A MORE RANDOM ARRANGEMENT AND NOT IN STRAIGHT ROWS.

**FIGURE 8. IMPACT SUMMARY, PLANT MATERIAL LIST AND PLANTING DETAIL**

<p>REFERENCE: TBD</p> <p>APPLICANT: KING COUNTY</p> <p><b>DATUM:</b> VERT: NAVD 88 HORIZ: NAD 83/91 WA NORTH</p> <p>ADJACENT PROPERTY OWNERS: SEE FIGURE 2 OF 8</p>	<p>INTERBAY CONVEYANCE REHABILITATION &amp; ODOR CONTROL</p> <p>LOCATION: KING COUNTY PROPERTY ADJACENT TO INTERBAY GOLF CENTER AND BNSF RAILYARD FROM W ARMORY WAY TO INTERBAY ATHLETIC COMPLEX</p> <p>LAT/LONG: FROM 47.6404°N / -122.3799°W TO 47.6466°N / -122.3803°W</p> <p>PAGE 8 DATE: MAY 4, 2021</p>	<p>PROPOSED PROJECT: REHABILITATION OF EXISTING EBI-8 PIPE AND INSTALLATION OF TEMPORARY BYPASS PIPE.</p> <p>IN: SMITH COVE / SALMON BAY (PUGET SOUND) NEAR/AT: SEATTLE COUNTY: KING STATE: WA</p>
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