



WASHINGTON STATE

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

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



US Army Corps
of Engineers®
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

RECEIVED

DEC 28 2017 ✓

CITY OF MUKILTEO

Part 1–Project Identification

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

Harbour Pointe Boulevard Widening Project

Part 2–Applicant

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

2a. Name (Last, First, Middle)

Stringer, Challis

2b. Organization (If applicable)

City of Mukilteo

2c. Mailing Address (Street or PO Box)

11930 Cyrus Way

2d. City, State, Zip

Mukilteo, Washington 98275

2e. Phone (1)

2f. Phone (2)

2g. Fax

2h. E-mail

425.263.8082

cstringer@mukilteowa.gov

¹Additional forms may be required for the following permits:

- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at <http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PermitGuidebook/EndangeredSpecies.aspx>.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

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

http://www.epermitting.wa.gov/site/alias_resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx.

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or 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.) [\[help\]](#)

3a. Name (Last, First, Middle)			
McNair, Fiona, M.			
3b. Organization (If applicable)			
GeoEngineers, Inc.			
3c. Mailing Address (Street or PO Box)			
600 Dupont Street			
3d. City, State, Zip			
Bellingham, Washington 98225			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h. E-mail
360.922.5104	360.296.6714	360.647.5044	fmcnair@geoengineers.com

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.

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

5a. Indicate the type of ownership of the property. (Check all that apply.) [\[help\]](#)

- ☐ Private
- ☐ Federal
- ☒ Publicly owned (state, county, city, special districts like schools, ports, etc.)
- ☐ Tribal
- ☐ Department of Natural Resources (DNR) – managed aquatic lands (Complete [JARPA Attachment E](#))

5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [\[help\]](#)

1,600 feet west along Harbour Pointe Boulevard from Mukilteo Speedway, with a small northwest to southeast extension along Cyrus Way

5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [\[help\]](#)

Mukilteo, Washington

5d. County [\[help\]](#)

Snohomish

5e. Provide the section, township, and range for the project location. [\[help\]](#)

¼ Section	Section	Township	Range
NW	27	28 North	04 East

5f. Provide the latitude and longitude of the project location. [\[help\]](#)

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

47.888933 N lat. / -122.288214

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

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

Road right of way

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

Name	Mailing Address	Tax Parcel # (if known)
SC Harbour Pointe, Inc.	5694 MISSION CENTER RD #602-800 SAN DIEGO, CA 92108-4312	00441400000100
Barbara, Devin, Dale, Darrel Kathol	22830 106 th PL W, Edmonds, WA 98020, and PO Box 1724, Lynnwood, WA 98046	00441300000300
Safe Harbour Storage, Inc.	8522 NE 143 rd St Bothell, WA 98011	00441300001300

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

Wetlands A, B and C

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

Not applicable – no waterbodies on or adjacent to the project.

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 Harbour Pointe Boulevard road widening project area is developed with commercial office parks, a bank, a hotel, a gas station and Mukilteo City Hall. Four undeveloped and forested parcels are located south of Harbour Pointe Boulevard from just west of Cyrus Way to a point approximately 250 feet east of Mukilteo Speedway (Hwy 525). Vegetation in the forested parcels adjacent to the road widening area largely consists of red alder (*Alnus rubra*), Pacific willow (*Salix lasiandra*), black cottonwood (*Populus balsamifera*), Himalayan blackberry (*Rubus armeniacus*) and reed canarygrass (*Phalaris arundinacea*) with some western red cedar (*Thuja plicata*) trees. Three wetlands have been identified and delineated adjacent to the project corridor, one Category III wetland (Wetland A) and two Category IV wetlands (Wetland B and Wetland C). See the attached *Harbour Pointe Boulevard Widening Project Wetland and Stream Delineation Report* for more details.

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

The project extends approximately 1,600 feet west along Harbour Pointe Boulevard from Mukilteo Speedway (both busy roadways), with a small northwest to southeast extension along Cyrus Way. The proposed road widening area is located in road right-of-way.

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

The Harbour Pointe Boulevard road widening project area is developed with commercial office parks, a bank, a gas station and Mukilteo City Hall.

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

Structures within the project area include: roadways, sidewalks, curb ramps, traffic lights, underground and overhead utilities, sewer and stormwater system.

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

From Seattle, head north on I-5. Continue on I-5 and take the right 2 lanes to take exit 182 for WA-525 N toward WA-99. Continue onto WA-525 N. In approximately 4 miles use the left 2 lanes to turn left onto Harbour Pointe Blvd. SW. And you will have arrived at the project site.

Part 6–Project Description

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

Harbour Pointe Boulevard Road Project Description

Mukilteo is proposing to widen Harbour Pointe Boulevard SW and upgrade the operational components of the Harbour Pointe Boulevard SW/Cyrus Way intersection within the City of Mukilteo, Washington. The Road Project is classified as a reconstruction project that will mitigate collisions and provide public benefit by reducing congestion, increasing safety, improving business access, and improving the level of service at the intersections of Cyrus Way. The project will extend along Harbour Pointe Boulevard from SR 525 to approximately 450 feet west of Cyrus Way (See JARPA drawings).

Left turn pockets with left turn sign phases will be added to all four legs at the intersection of Cyrus Way allowing left turn movements to be protected/permissive. An elevated, 8-foot wide shared use path and 5-foot wide planter strip will be constructed on the south side of the boulevard to complete the sidewalk and bike path gap that currently exists. Adjacent to Wetland C, the planter strip will be eliminated, and the sidewalk narrowed to avoid impacts to the wetland.

Sidewalks along the east and west sides of Cyrus Way will be designed to draw pedestrians closer to the existing traveled way. At the intersection, proposed sidewalks will match against the back of curb. This is a standard design provision and is being done to minimize pedestrian crosswalk lengths, impacts to existing critical areas, and to avoid acquisition of new right-of-way. Roadway lane widths have been designed to best accommodate semi-truck turning movements as well as to minimize environmental impacts. Proposed paving limits have been minimized to reduce impacts on stormwater and downstream critical areas. Stormwater management will address both flow control and water quality in one combined wet vault/detention facility.

Project elements will provide comprehensive safety improvements that accommodate expected increases in traffic within the corridor. Overall outcomes will include increased corridor safety and capacity, reduced delay and congestion, increased freight mobility, and enhanced Americans with Disabilities Act (ADA) accessibility along this City arterial serving a combination of residential, commercial, industrial, and recreational users.

The footprint of improved surfaces was developed by modeling turning movements of commercial vehicles (semi-trucks) that utilize the corridor each day. Multiple iterations were conducted to minimize the area of new roadway surfaces, both to minimize construction costs and to reduce the potential for impacts to existing sensitive areas. The proposed layout minimizes impacts to existing wetlands and wetland buffers to the maximum extent practicable while still meeting design and safety requirements. Project improvements will expand the existing roadway footprint into one existing wetland (Wetland A) and into disturbed (pavement or gravel) portions of existing wetland buffers. The quality of stormwater from existing roadway surfaces and from proposed surfaces will be improved by installing stormwater features that collect, detain, and treat roadway runoff. Specific media to be used for filtration will be selected based on the land use and stormwater runoff pollutant loading. The combination of these structures will provide water quality improvements as collected runoff passes through the vault wet pools and media cartridges, trapping particulates and adsorbing pollutants.

The wetland impacts associated with the road work will be mitigated on property the City owns, known as Japanese Gulch. The City of Mukilteo has identified Japanese Gulch for wetland and buffer mitigation as part of their CAMP program. Mitigation will include wetland creation and enhancement (See JARPA Drawings). See the mitigation plan for more information on proposed compensatory mitigation for the project (GeoEngineers, 2017).

Japanese Gulch Mitigation Project Description

The mitigation project will require some minor surface excavation/scraping within an existing wetland (Wetland A) and within wetland buffer areas to remove reed canary grass rhizomes and seeds, and to lower grades to create wetlands. The mitigation project will not include work within streams. Excavation will primarily consist of removal of a portion of an existing road and subgrade materials, removal of an earthen berm and decommissioning of a catch basin located in the middle of the existing access road. Currently, it is understood that the grading for the project will be completed in one construction season (summer of 2018 or summer of 2019), and construction sequencing will therefore follow a one-year/one-season construction approach.

As part of the mitigation:

- 315 square feet of existing wetland will be enhanced;
- 4,850 square feet of wetland habitat will be created (2,105 square feet of creation for compensatory mitigation and 2,745 square feet of paper buffer creation – see Note below); and
- 790 square feet of buffer habitat will be enhanced.

Note: It is anticipated that the paper buffer area will become wetland because of site elevations and hydrology, however only 2,105 sq. ft. of the total wetland creation area will be credited for compensatory mitigation, the remainder will be paper buffer to protect and shield the created wetland from human and dog use of the trail (future boardwalk) along the southern edge of the mitigation area.

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

The Road Project is classified as a reconstruction project that will mitigate collisions and provide public benefit by reducing congestion, increasing safety, improving business access, and improving the level of service at the intersections of Cyrus Way.

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

☐ 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.

Construction Sequence and Equipment List

Below is a general outline of the construction sequence and a list of equipment anticipated for the proposed project at both the road widening site and the mitigation site. Construction sequencing may change based on final designs.

Harbour Pointe Boulevard Road Widening

The proposed construction sequence at the Harbour Pointe Boulevard project will consist of:

- Clearing and grubbing
- Roadway excavation
- Existing feature removals
- Installation of drainage collection, conveyance, flow control, and water quality features
- Roadway grading
- Installation/construction of concrete curbs, gutters, sidewalks, and driveways
- ADA facilities
- Traffic and pedestrian signal upgrades
- Paving with hot-mix asphalt
- Pavement markings
- Planter strips
- Permanent signing

Equipment to be used at the road project site will likely include:

- Loader backhoe
- Dump trucks and trailers
- Excavators
- Rollers
- Pickup trucks
- Pavement cutters
- Pavement grinders
- Paving machines
- Concrete trucks
- Striping machines
- Cranes

Japanese Gulch Mitigation Site

The proposed construction sequence at the mitigation site will consist of:

- Mobilize to site
- Site Preparation:
 - Establish site survey control and project layout staking
 - Install Erosion Control Best Management Practices (BMPs) in accordance with the site Stormwater Prevention and Protection Plan (SWPPP), to be developed in accordance with Ecology's 2012 Stormwater Management Manual for Western Washington, as amended in December 2014 (Ecology, 2014)
 - No clearing or grubbing is anticipated other than minor scraping to remove reed canary grass from with Wetland A and its buffer areas
- Construct created wetland area (4,850 square feet)

- Remove asphalt (2 inches thick) and rock subgrade (6 to 10 inches thick) within the wetland creation area shown on the JARPA drawings and excavate to subgrade
- Decommission the catch basin in the existing road
- Weed whack reed canary grass within the buffer area south of Wetland A
- Lower the grade of the buffer area south of Wetland A and southeast of pavement removal area excavating to subgrade
- Stockpile topsoil from all reed canary grass areas separately for later disposal
- Stockpile all other topsoil in adjacent upland areas for later reuse
- Remove earthen berm along southern edge of mitigation area and grade to match adjacent grades
- Install imported and stockpiled topsoil to design grade as shown on the JARPA drawings (Appendix A) including creation of eight topsoil mounded areas with approximate dimensions of 2.5 to 3 feet diameter and 10 inches above finished grade
- Within areas of the wetland that match adjacent grades and within all disturbed upland areas, apply 4 inches of wood chip mulch
- Seed created wetland depression areas with a native wetland seed mix
- If straw is used to stabilize areas of disturbed soil as a temporary BMP, only certified weed-free straw will be used
- Control reed canary grass within the wetland enhancement area (Wetland A) and portions of the buffer enhancement areas
 - Weed whack reed canary grass
 - Scrape off the top 6 to 10 inches of soil to remove the rhizomes and seed source
 - Top-dress the area with 6 inches of topsoil, stabilize and seed with native wetland seed mix
- Transport asphalt, rock road base, catch basin and excavated reed canary grass topsoils off-site for disposal in accordance with applicable regulations
- Remove erosion control BMPs around site
- During the fall following site grading, 2 months prior to the dormant season, install native emergent plants at the site per the attached JARPA drawings
- During the winter dormant season following site grading, install native trees and shrubs at the site per the attached JARPA drawings

Equipment to be used at the mitigation project site will likely include:

- Loader backhoe
- Dump trucks, Pickup trucks, and trailers
- Small excavator
- Small roller

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: May 21, 2018

End Date: August 23, 2018

☐ See JARPA Attachment D

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

Road Project: \$1.7 million Mitigation Project: \$36,200

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.) [\[help\]](#)

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]
<input type="checkbox"/> Not applicable
An elevated, 8-foot wide shared use path and 5-foot-wide planter strip will be constructed on the south side of the boulevard to complete the sidewalk and bike path gap that currently exists. Adjacent to Wetland C, the planter strip has been eliminated, and the sidewalk narrowed to avoid impacts to Wetland C. Permitting conditions are expected to include requirements that will directly or indirectly control temporary and permanent impacts to the project area and surrounding vicinity. Temporary erosion and sedimentation control (TESC) measures, such as straw wattles or silt fencing, will be utilized during the project to avoid impacts to wetlands. Provided that TESC measures are selected and implemented properly, it is expected that no sediment laden runoff will leave the site and that there will be no impacts to water quality resulting from construction stormwater. The contractor will install TESC BMP measures prior to project initiation, as needed. TESC BMP measures will be inspected, maintained and augmented if necessary, to prevent impacts to ESA-listed species. After completion of the project, TESC controls will be removed from the area for off-site disposal. The contractor will produce a Storm Water Pollution Prevention Plan (SWPPP) that will address spill prevention, fuel storage, if needed and erosion control.
7b. Will the project impact wetlands? [help]
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
7c. Will the project impact wetland buffers? [help]
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
7d. Has a wetland delineation report been prepared? [help]
<ul style="list-style-type: none">If Yes, submit the report, including data sheets, with the JARPA package.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [help]
<ul style="list-style-type: none">If Yes, submit the wetland rating forms and figures with the JARPA package.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know
7f. Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [help]
<ul style="list-style-type: none">If Yes, submit the plan with the JARPA package and answer 7g.If No, or Not applicable, explain below why a mitigation plan should not be required.
<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]

Unavoidable wetland impacts associated with the Harbour Pointe Boulevard Widening Project will be compensated for through wetland creation and wetland enhancement at the Japanese Gulch Mitigation site located northeast of the 76th Street SW and 44th Avenue West intersection within the City of Everett, Washington. The mitigation project is meant to create wetland habitat in an area that will be protected from further development, restore more natural hydrology to the site, create buffer habitat where pavement currently exists and enhance wetland and buffer habitat.

Japanese Gulch has been identified by the City of Mukilteo in their Critical Areas Mitigation Program (CAMP) as an area for wetland and buffer mitigation. The mitigation area is located within a municipal urban growth area. In addition, the mitigation plan has the potential to:

- Improve hydrology functions by removing berms and by plugging outfalls and pipes.
- Improve species richness of wildlife by establishing a buffer dominated by native habitat species,
- Improve species richness of plants by controlling aggressive non-native vegetation species and installing native species.

Therefore, a watershed approach was utilized to identify the proposed mitigation site.

The mitigation project will require some minor surface excavation/scraping at the Japanese Gulch Mitigation Site within an existing wetland (Wetland A) and within wetland buffer areas to remove reed canary grass rhizomes and seeds, and to lower grades to create wetlands. The mitigation project will not include work within streams. Excavation will primarily consist of removal of a portion of an existing road and subgrade materials, removal of an earthen berm and decommissioning of a catch basin located in the middle of the existing access road. Currently, it is understood that the grading for the project will be completed in one construction season (summer of 2018 or summer of 2019), and construction sequencing will therefore follow a one-year/one-season construction approach. As part of the mitigation:

- 315 square feet of existing wetland will be enhanced;
- 4,850 square feet of wetland habitat will be created (2,105 square feet of creation for compensatory mitigation and 2,745 square feet of paper buffer creation – see Note below); and
- 790 square feet of buffer habitat will be enhanced.

Note: It is anticipated that the paper buffer area will become wetland because of site elevations and hydrology, however only 2,105 sq. ft. of the total wetland creation area will be credited for compensatory mitigation, the remainder will be paper buffer to protect and shield the created wetland from human and dog use of the trail (future boardwalk) along the southern edge of the mitigation area.

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 ¹	Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)
Wetland Fill	Wetland A (Harbour Point Boulevard Project Site)	Category III	1,016 sq. ft.	Permanent	Creation/Enhance	Wetland Creation: 2,105 sq. ft. Wetland Enhancement: 315 sq. ft. Paper Buffer Creation: 2,745 sq. ft.

						Buffer Enhancement: 790 sq. ft.
Wetland Enhancement (Scrape reed canary grass roots off a portion of the wetland)	Wetland A (Mitigation site)	Category IV	315 sq. ft.	Temporary – topsoil will be replaced and area replanted	N/A	N/A – this is part of the proposed mitigation

¹ 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.

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

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

⁴ 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. [\[help\]](#)

Road Widening Project Site (Harbour Point Boulevard)

Total volumes for the entire project: Hot Mix asphalt/ Asphalt treated base = 740 CY, Gravel Borrow = 410 CY, Crushed surfacing top course/ crushed surfacing base course = 360 CY, Concrete Surfaces = 450 CY, Detention Vault (Excavation and Installation) = 800 CY, and Topsoil = 120 CY, Utility Trenching and Backfill = 350 CY and 350 CY. Local sources of fill will be used.

Fill volumes in Wetland A: There will be approximately 55 cubic yards of fill material (in the form of gravel, topsoil, and concrete) placed within 1,016 square feet of Wetland A. Local sources of fill will be used.

Mitigation Project Site (Japanese Gulch)

Total volumes for the entire project: Excavated materials = 160 CY, Total fill 103 CY. Local source of fill will be used.

Excavation and fill volumes in Wetland A (Japanese Gulch): Up to 9 cubic yards of reed canary grass roots and associated seed-infested soils will be removed from Wetland A, and an equal amount of topsoil will be used to backfill the area before replanting.

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. [\[help\]](#)

See answer 7i for more information. Material will be disposed of within an agency approved location.

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

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

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

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [\[help\]](#)

☐ Not applicable

8b. Will your project impact a waterbody or the area around a waterbody? [\[help\]](#)

☐ Yes ☐ No

8c. Have you prepared a mitigation plan to compensate for the project’s adverse impacts to non-wetland waterbodies? [\[help\]](#)

- If Yes, submit the plan with the JARPA package and answer 8d.
- If No, or Not applicable, explain below why a mitigation plan should not be required.

☐ Yes ☐ No ☐ Don’t know

8d. Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g you do not need to restate your answer here. [\[help\]](#)

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

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name ¹	Impact location ²	Duration of impact ³	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected

¹ 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.

² Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

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

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

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

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.

9a. If you have already worked with any government agencies on this project, list them below. [help]			
Agency Name	Contact Name	Phone	Most Recent Date of Contact
US Army Corps of Engineers	Frank Nichols	thomas.f.nichols@usace.army.mil 206.764.6182	11/9/17 (email)
City of Mukilteo	Linda Ritter	lritter@mukilteowa.gov 425.263-8043	4/17/17 (email)
Washington Department of Ecology	Doug Gresham	DGRE461@ECY.WA.GOV 425.649.7199	9/1/17 (phone call)
City of Everett	Grace Pollard	425.257.8807	11/15/17 (email)
9b. 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? [help] <ul style="list-style-type: none"> If Yes, list the parameter(s) below. If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: http://www.ecy.wa.gov/programs/wq/303d/. 			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [help] <ul style="list-style-type: none"> Go to http://cfpub.epa.gov/surf/locate/index.cfm to help identify the HUC. 			
17110019 (Puget Sound)			
9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [help] <ul style="list-style-type: none"> Go to http://www.ecy.wa.gov/water/wria/index.html to find the WRIA #. 			
Road widening Site: WRIA 8 (Cedar-Sammamish)			
Mitigation Site: WRIA 7 (Snohomish)			
9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [help] <ul style="list-style-type: none"> Go to http://www.ecy.wa.gov/programs/wq/swqs/criteria.html for the standards. 			
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable			
9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [help] <ul style="list-style-type: none"> If you don't know, contact the local planning department. For more information, go to: http://www.ecy.wa.gov/programs/sea/sma/laws_rules/173-26/211_designations.html. 			
<input type="checkbox"/> Urban <input type="checkbox"/> Natural <input type="checkbox"/> Aquatic <input type="checkbox"/> Conservancy <input type="checkbox"/> Other: _____			
9g. What is the Washington Department of Natural Resources Water Type? [help] <ul style="list-style-type: none"> Go to http://www.dnr.wa.gov/forest-practices-water-typing for the Forest Practices Water Typing System. 			

<input type="checkbox"/> Shoreline <input type="checkbox"/> Fish <input type="checkbox"/> Non-Fish Perennial <input type="checkbox"/> Non-Fish Seasonal
9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [help]
<ul style="list-style-type: none"> • If No, provide the name of the manual your project is designed to meet.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Name of manual: _____
9i. Does the project site have known contaminated sediment? [help]
<ul style="list-style-type: none"> • If Yes, please describe below.
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9j. If you know what the property was used for in the past, describe below. [help]
A review of Google arials was completed; the Google arials dated back to 1990. The road widening area and the mitigation site look similar to present day conditions. Harbour Pointe and Cyrus Way has been in existence since 1990. The mitigation site was a rural homestead site originally and has remained undeveloped. The City has developed a community garden west of the mitigation site.
9k. Has a cultural resource (archaeological) survey been performed on the project area? [help]
<ul style="list-style-type: none"> • If Yes, attach it to your JARPA package.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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]
There are no federal Endangered Species Act listed species, at either the road widening project area or the mitigation site area. See attached Biological Evaluation No Effects Letter.
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]
Road Widening Site: There are no priority species within the vicinity of the proposed work. However, wetlands are mapped within 1,500 feet to the east, streams are mapped within 1500 feet to the west and a biodiversity corridor is mapped approximately 1,800 feet to the southwest.
Mitigation Site: There are no priority species at the proposed project footprint. However, a biodiversity corridor and freshwater pond is immediately adjacent to the mitigation area.

Part 10–SEPA Compliance and Permits

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

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

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help]
<ul style="list-style-type: none"> • For more information about SEPA, go to www.ecy.wa.gov/programs/sea/sepa/e-review.html.

<input type="checkbox"/> A copy of the SEPA determination or letter of exemption is included with this application.
<input checked="" type="checkbox"/> A SEPA determination is pending with <u>City of Mukilteo</u> (lead agency). The expected decision date is <u>April 2017</u> .
<input type="checkbox"/> I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [help]
<input type="checkbox"/> This project is exempt (choose type of exemption below). <input type="checkbox"/> Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt? _____
<input type="checkbox"/> Other: _____
<input type="checkbox"/> 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: <input type="checkbox"/> Substantial Development <input type="checkbox"/> Conditional Use <input type="checkbox"/> Variance <input type="checkbox"/> Shoreline Exemption Type (explain): _____
Other City/County permits: <input type="checkbox"/> Floodplain Development Permit <input checked="" type="checkbox"/> Critical Areas Ordinance
STATE GOVERNMENT
Washington Department of Fish and Wildlife: <input type="checkbox"/> Hydraulic Project Approval (HPA) <input type="checkbox"/> Fish Habitat Enhancement Exemption – Attach Exemption Form
Washington Department of Natural Resources: <input type="checkbox"/> Aquatic Use Authorization Complete JARPA Attachment E and submit a check for \$25 payable to the Washington Department of Natural Resources. <u>Do not send cash.</u>
Washington Department of Ecology: <input checked="" type="checkbox"/> Section 401 Water Quality Certification
FEDERAL GOVERNMENT
United States Department of the Army permits (U.S. Army Corps of Engineers): <input checked="" type="checkbox"/> Section 404 (discharges into waters of the U.S.) <input type="checkbox"/> Section 10 (work in navigable waters)
United States Coast Guard permits: <input type="checkbox"/> General Bridge Act Permit <input type="checkbox"/> Private Aids to Navigation (for non-bridge projects)

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. Cms (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. Cms (Initial)

<u>Challis Stringer</u>	<u>Challis M Stringer</u>	<u>12/18/17</u>
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.

<u>Fiona McNair</u>	<u>[Signature]</u>	<u>12/18/17</u>
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.

<u>Property Owner Printed Name</u>	<u>Property Owner Signature</u>	<u>Date</u>
------------------------------------	---------------------------------	-------------

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. 07/2017



WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) [\[help\]](#)



US Army Corps
of Engineers®
Seattle District

Attachment B:
For additional project location(s) [\[help\]](#)

Use this attachment only if you have more than one project location.

Use a separate form for each additional location.

Use black or blue ink to enter answers in white spaces below.

AGENCY USE ONLY	
Date received:	_____
Agency reference #:	_____
Tax Parcel #(s):	_____ _____ _____
TO BE COMPLETED BY APPLICANT [help]	
Project Name:	_____
Location Name (if applicable):	_____ _____

1. Indicate the type of ownership of the property. (Check all that apply.) [\[help\]](#)

- ☐ Private
- ☐ Federal
- ☒ Publicly owned (state, county, city, special districts like schools, ports, etc.)
- ☐ Tribal
- ☐ Department of Natural Resources (DNR) – managed aquatic lands (Complete [JARPA Attachment E](#))

2. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 16) [\[help\]](#)

Northeast of the 76th Street SW and 44th Avenue West intersection

3. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [\[help\]](#)

Everett, Washington

4. County [\[help\]](#)

Snohomish County

5. Provide the section, township, and range for the project location. [\[help\]](#)

¼ Section	Section	Township	Range
SW	10	28 North	04 East

6. Provide the latitude and longitude of the project location. [\[help\]](#)

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

47.930044 N lat. / -122.290486 W long

7. List the tax parcel number(s) for the project location. [\[help\]](#)

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

00631400000001 and 28041000201400

8. Contact information for all adjoining property owners. (If you need more space, use JARPA Attachment C.) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)
City of Mukilteo	11930 Cyrus Way	28041000200900, 00491200000101, 00628500000001, 28041000201400 (adjacent and the project parcel)
	Mukilteo, WA 98275-5408	
Mukilteo School District 6	9401 Sharon Drive	28041000200100
	Everett, WA 98204	

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

Wetland A, Wetland 2 and Wetland 3

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

Not applicable – there are no waterbodies on or near the project area.

11. Is any part of the project area within a 100-year flood plain? [\[help\]](#)

☐ Yes ☒ No ☐ Don't know

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

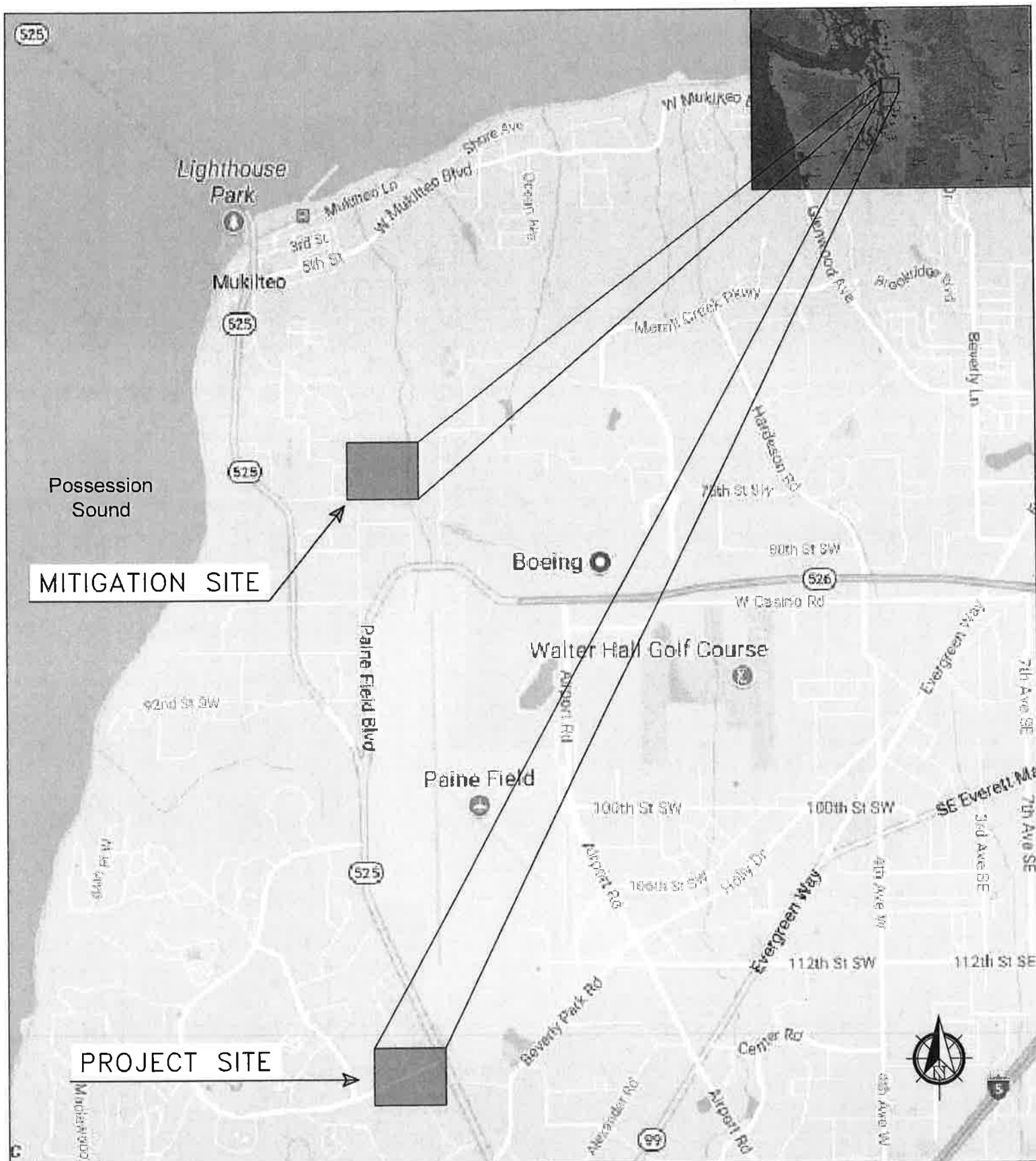
The vast majority of the Mukilteo-owned parcels in Japanese Gulch are dominated by a mature mixed coniferous and deciduous forest of western red cedar (*Thuja plicata*) and red alder (*Alnus rubra*) with salmonberry (*Rubus spectabilis*) and sword fern (*Polystichum munitum*) in the understory. The approximate 0.5-acre area that was evaluated for mitigation use and assessed for the presence of wetlands, is largely dominated by trailing blackberry (*Rubus ursinus*), fireweed (*Chamaenerion angustifolium*) and grasses; however, there is a small area of young red alder (*Alnus rubra*) and cottonwood (*Populus balsamifera*) forest with a small patch of cedar trees. The proposed mitigation area is mostly covered in existing pavement with a small portion dominated by spirea (*Spiraea douglasii*) and reed canary grass (*Phalaris arundinacea*).

13. Describe how the property is currently used. [\[help\]](#)

The proposed mitigation site is located in an approximately 55-acre area consisting of 17 parcels owned by the City of Mukilteo, west of Japanese Gulch Creek. Japanese Gulch has been identified by the City of Mukilteo in their Critical Areas Mitigation Program (CAMP) as an area for wetland and buffer mitigation. A community garden is located on the west end of the Mukilteo property (within parcel No. 00628500000001) and public formal and informal hiking trails are located in the east end of the Mukilteo property (within parcel No. 06314000000001). A paved roadway (not used for motorized vehicles) extends east/west across the southern portion of the Mukilteo property and is used by mountain bikers and hikers to access the trails.

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

The approximately 0.5-acre mitigation site is located within 55 acres of undeveloped property owned by the City of Mukilteo. Beyond the Mukilteo owned open space parcels, there is commercial, industrial and residential development.



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

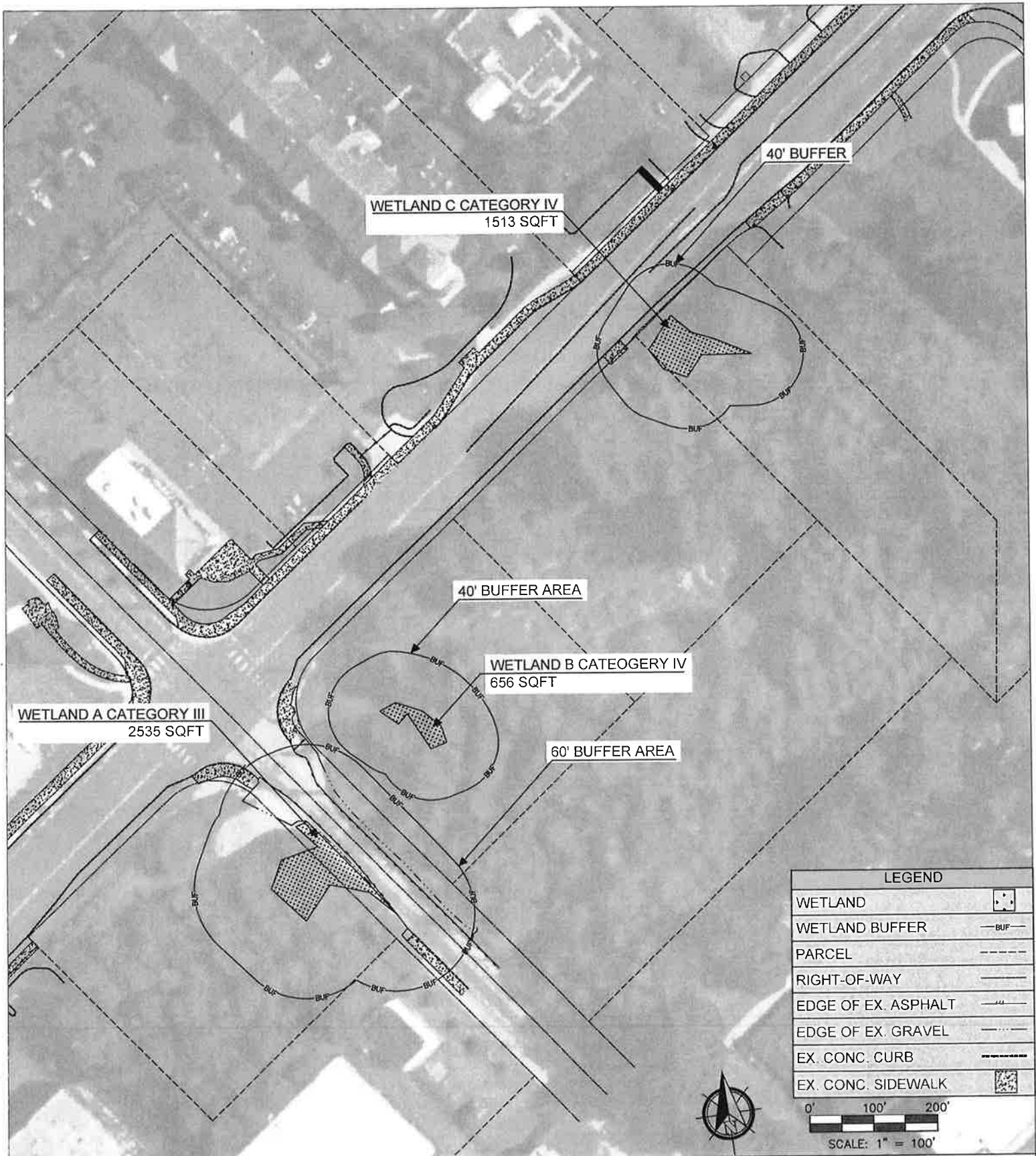
ADJACENT PROPERTY OWNERS:

LAT/LONG: (PROJECT SITE)
47.888933°, -122.288214°
LAT/LONG: (MITIGATION SITE)
47.930044°, 122.290486°
DATUM: LIDAR
DATE: 11/30/2017
SHEET 1 OF 8

FIGURE 1 -VICINITY MAP

PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH
STATE: WASHINGTON



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINT BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: SNOHOMISH COUNTY

LAT/LONG: 47.888933°, -122.288214°

DATUM: LIDAR

DATE: 11/30/17

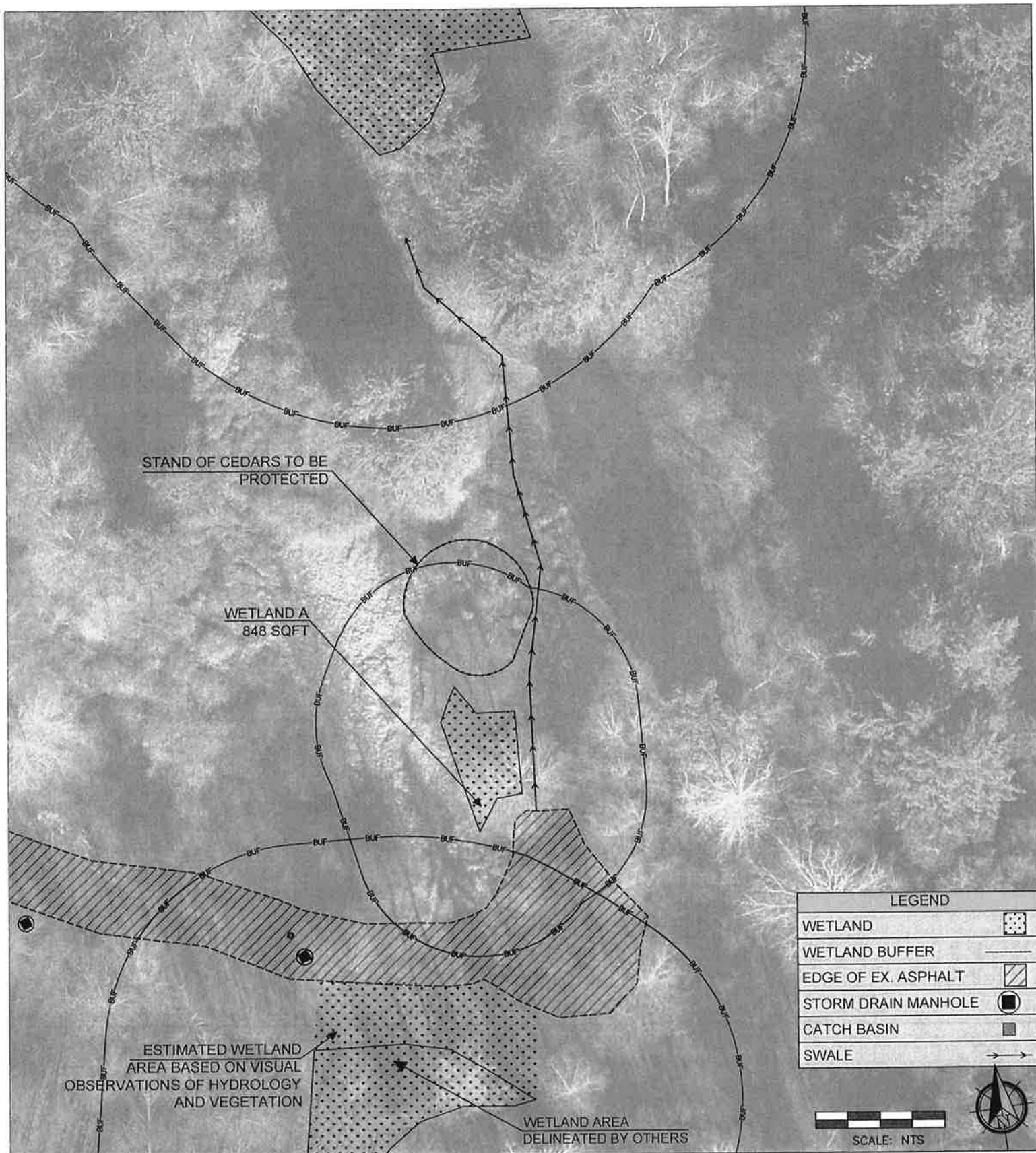
SHEET 2 OF 8

FIGURE 2 -ON SITE EXISTING CONDITIONS

PROPOSED PROJECT: HARBOUR POINT BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

STATE: WASHINGTON



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: SNOHOMISH COUNTY

LAT/LONG: 47.930044°, 122.290486°

DATUM: LIDAR

DATE: 11/30/17

SHEET 3 OF 8

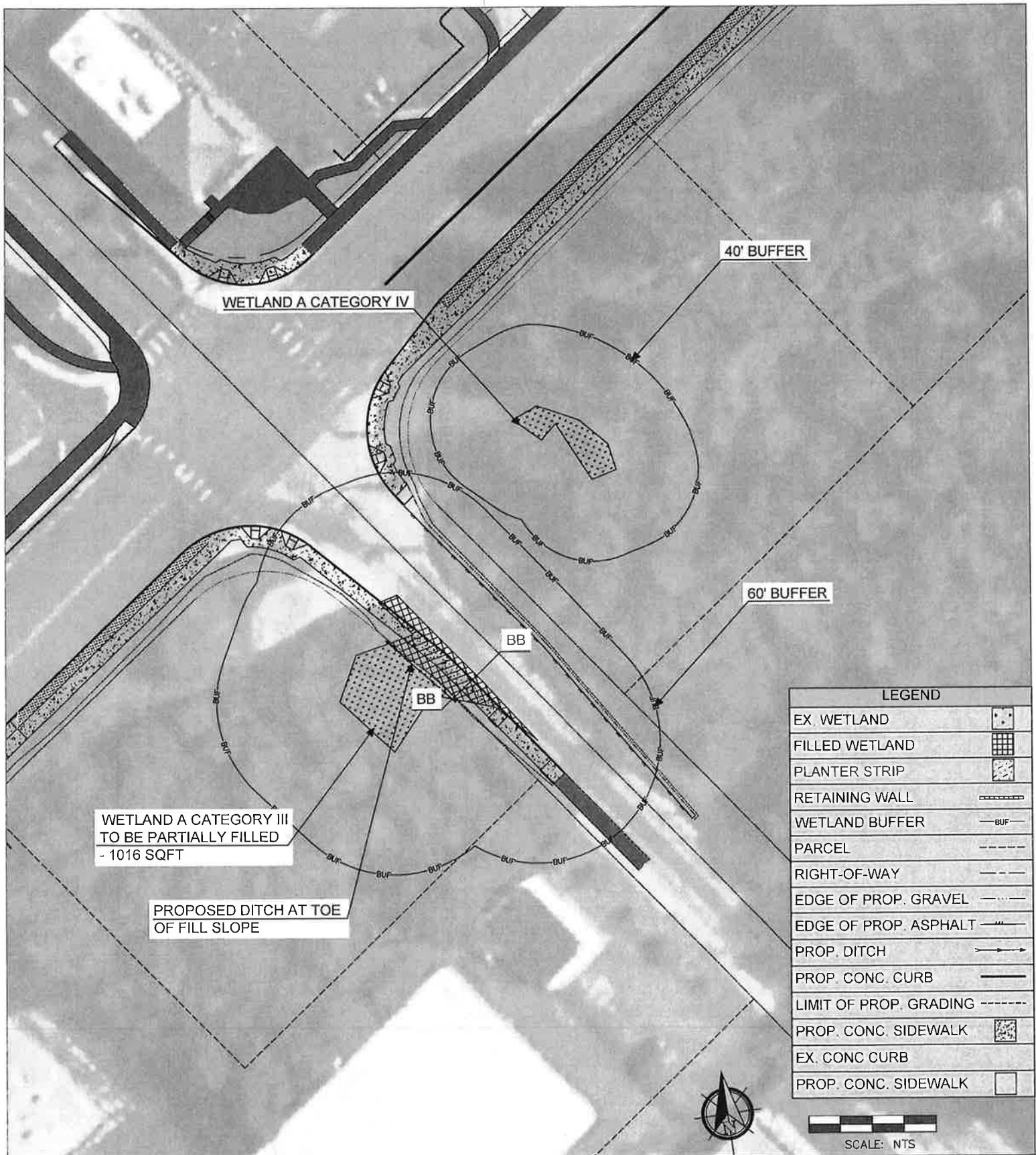
FIGURE 3 -OFF SITE EXISTING CONDITIONS

PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

STATE: WASHINGTON

TUTTLE ENGINEERING
AND MANAGEMENT



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: SNOHOMISH COUNTY

LAT/LONG: 47.888933°, -122.288214°

DATUM: LIDAR

DATE: 11/30/17

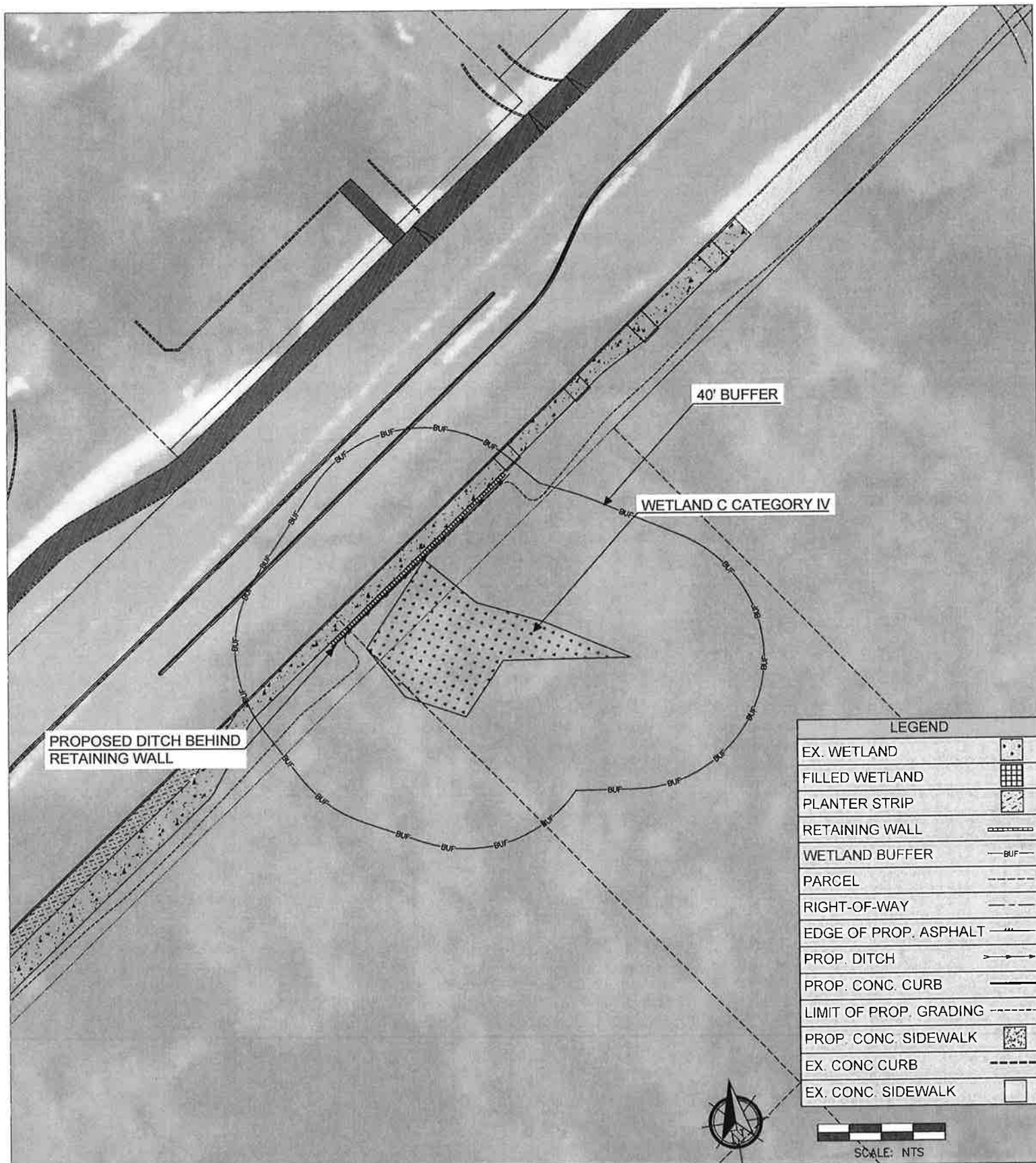
SHEET 4 OF 8

FIGURE 4 -ON SITE PROPOSED CONDITIONS

PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

STATE: WASHINGTON



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: SNOHOMISH COUNTY

LAT/LONG: 47.888933°, -122.288214°

DATUM: LIDAR

DATE: 11/30/17

SHEET 5 OF 8

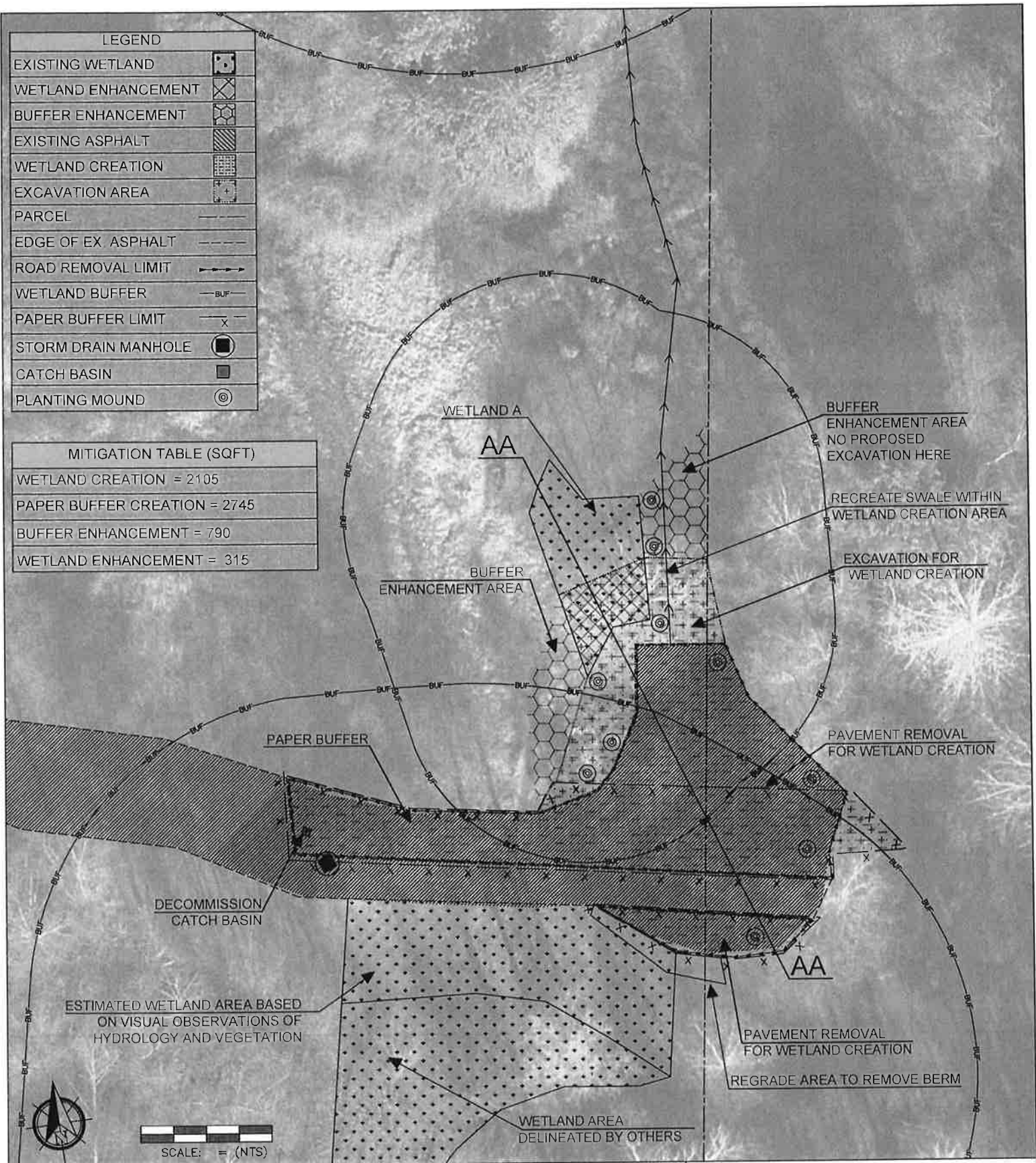
FIGURE 5 -ON SITE PROPOSED CONDITIONS

PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

STATE: WASHINGTON

TUTTLE ENGINEERING AND MANAGEMENT



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: SNOHOMISH COUNTY

LAT/LONG: 47.930044°, 122.290486°

DATUM: LIDAR

DATE: 11/30/17

SHEET 6 OF 8

FIGURE 6 -OFF SITE PROPOSED CONDITIONS

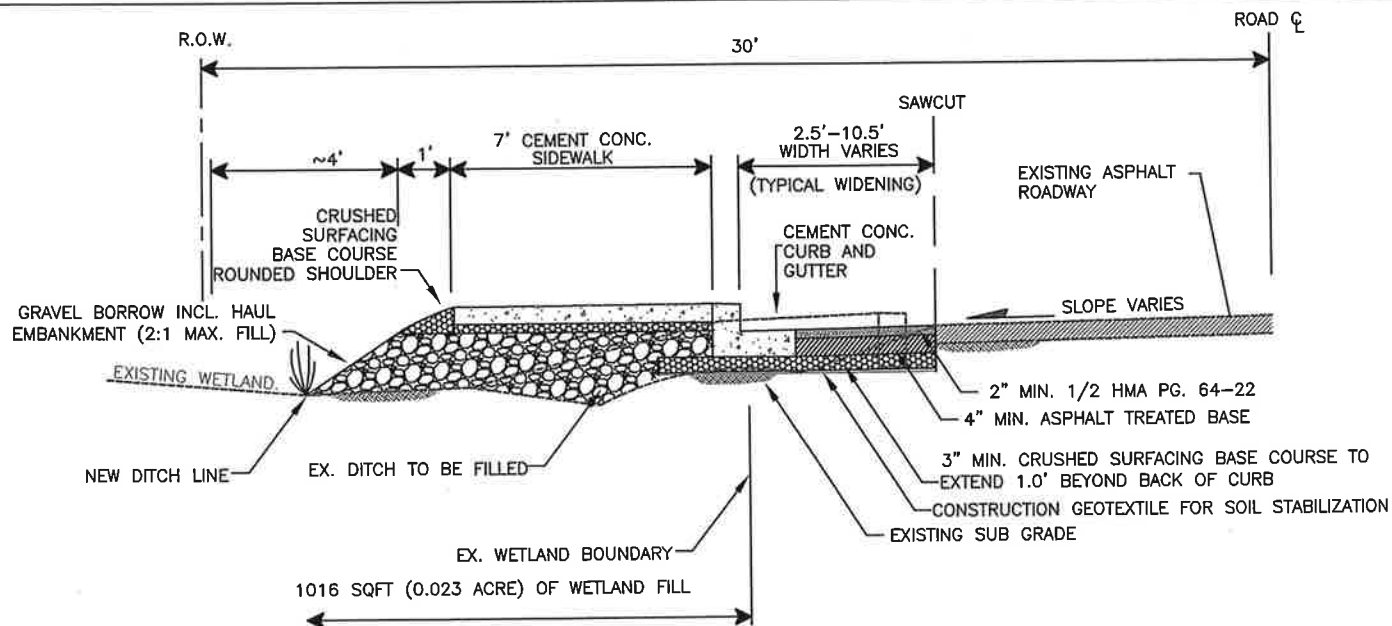
PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

STATE: WASHINGTON

TUTTLE ENGINEERING AND MANAGEMENT
1000 1st Avenue, Suite 100
Everett, WA 98201
Phone: 425.255.1111
Fax: 425.255.1112
www.tuttle-engineering.com

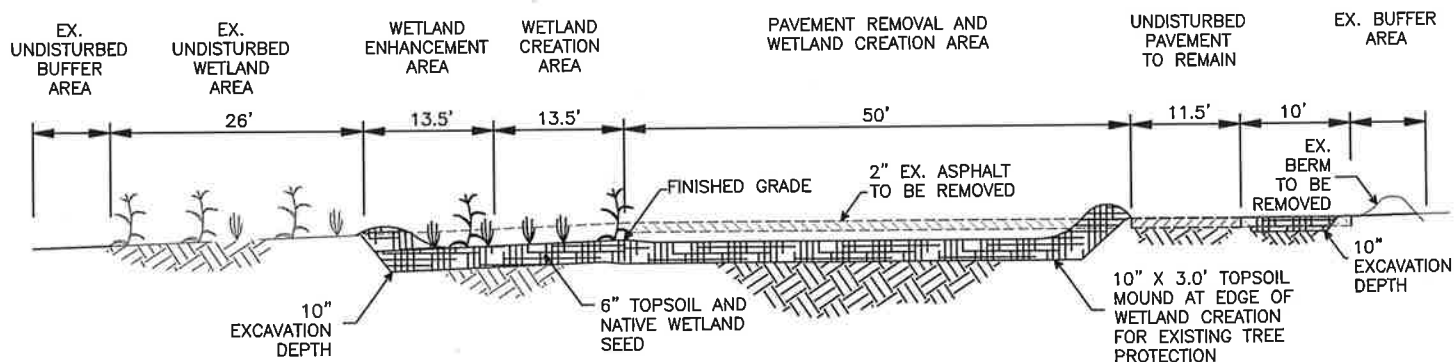
ENGINEERED WETLAND GRADING SECTION



ON SITE WETLAND FILL SECTION

NTS

A



NOTE: AT SOUTHERN BOUNDARY WETLAND CREATION MATCH FINISHED GRADE TO ADJACENT GRADE TO FACILITATE FLOWS FROM SOUTH TO NORTH

OFF SITE WETLAND CREATION SECTION

NTS

B

APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: NA

LAT/LONG: NA

DATUM: NA

DATE: 11/30/17

SHEET 7 OF 8

FIGURE 7 -PROPOSED WETLAND FILL AND WETLAND ENHANCEMENT SECTIONS

PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

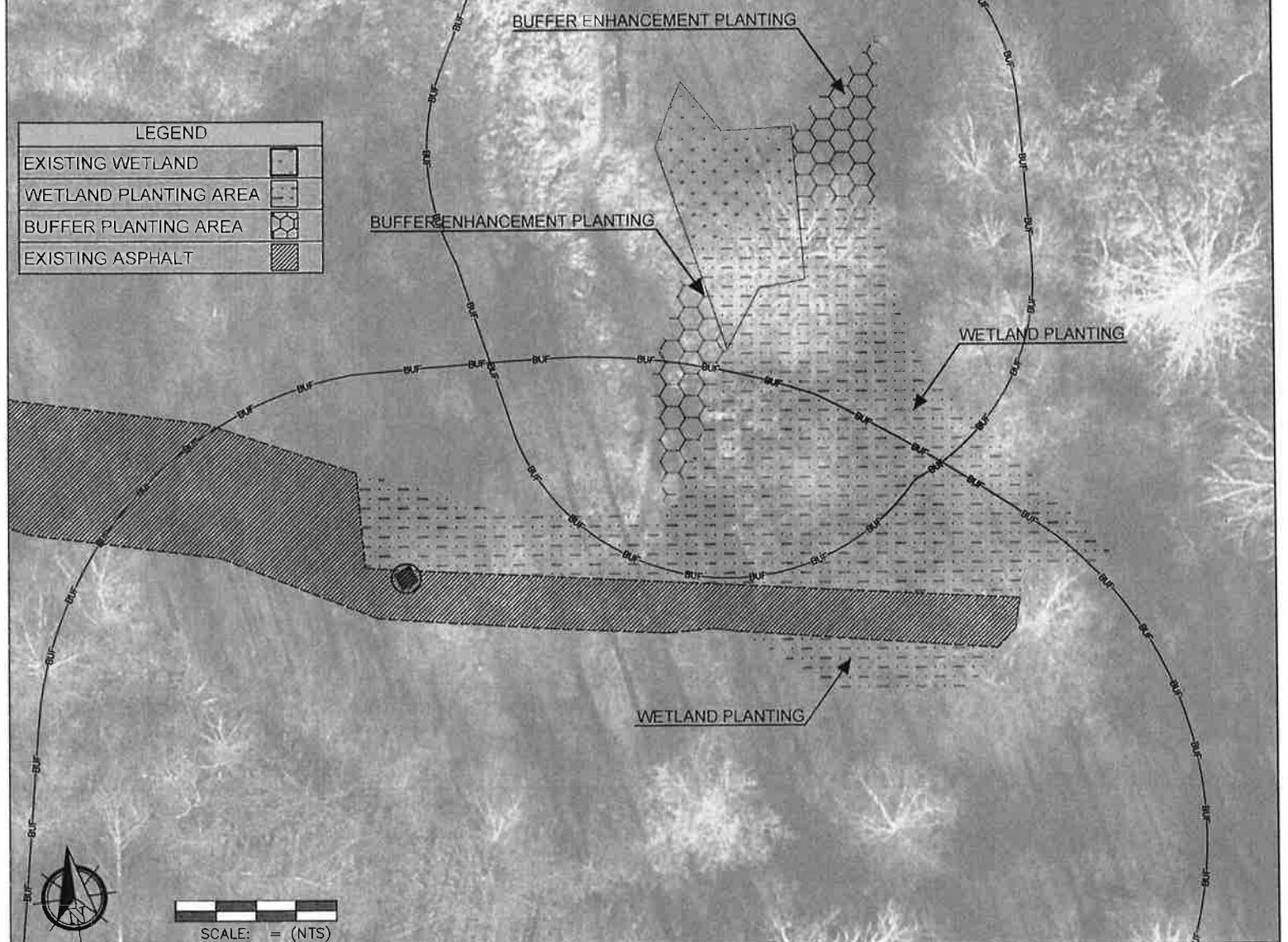
STATE: WASHINGTON

TUTTLE ENGINEERING AND MANAGEMENT

BUFFER ENHANCEMENT PLANTING SCHEDULE							
COMMON NAME	SCIENTIFIC NAME	INDICATOR STATUS	CONTAINER SIZE	PLANTING AREA (SQUARE FEET)	FOOT-ON-CENTER SPACING (FEET)	PLANT QUANTITY	NOTES
TREES							
WESTERN HEMLOCK	TRUSSA HEDROPHYLLA	FACU	1 GALLON	60	6	2	PLANT IN UPLAND, DRIER AREAS ONLY
WESTERN REDCEDAR	THUJA PLICATA	FAC	1 GALLON	60	6	2	PLANT ON MOUNDED AREAS AND ADJACENT TO DRIER AREAS
SHRUBS							
REDOSIER DOGWOOD	CORNUS SERICEA	FACW	1 GALLON	200	6	6	PLANT NEXT TO SWALE AND IN WETTER AREAS. CAN TOLERATE SATURATION.
BLACK HAWTHORNE	OMELERIA OERASIDIGENS	FAC	1 GALLON	100	6	3	PLANT ADJACENT TO UPLAND DRY AREAS.
INDIAN PLUM	MALUS FUSCA	FACU	1 GALLON	150	4	9	PLANT IN UPLAND, DRIER AREAS ONLY
PACIFIC NINEBARK	PHYDOCARPUS GARTAGUS	FACW	1 GALLON	200	6	6	PLANT NEXT TO SWALE AND IN WETTER AREAS. CAN TOLERATE SATURATION.
EMERGENT							
SLOUGH SEDGE	CAREX OBTNUPTA	OBL	1/4-INCH POT, PLUG OR TUBELING	22	1	22	PLANT IN THE SWALE IN THE MIDDLE OF EASTERN BUFFER ENHANCEMENT AREA.

WETLAND CREATION AND ENHANCEMENT PLANTING SCHEDULE							
COMMON NAME	SCIENTIFIC NAME	INDICATOR STATUS	CONTAINER SIZE	PLANTING AREA (SQUARE FEET)	FOOT-ON-CENTER SPACING (FEET)	PLANT QUANTITY	NOTES
TREES							
CASCARA	FRANGULA PURSHIANA	FAC	1 GALLON	300	6	6	PLANT ON MOUNDED AREAS AND ADJACENT TO DRIER AREAS
WESTERN REDCEDAR	THUJA PLICATA	FAC	1 GALLON	300	6	5	PLANT ON MOUNDED AREAS
SHRUBS							
REDOSIER DOGWOOD	CORNUS SERICEA	FACW	1 GALLON	500	4	31	PLANT ADJACENT TO UPSLOPE FROM SEDGE. CAN TOLERATE SATURATION.
BLACK HAWTHORNE	CRATAEGUS SUKSDORFI	FAC	1 GALLON	500	6	14	PLANT IN DRIER AREAS ALONG THE EDGE OF THE CREATED WETLAND.
WESTERN CRABAPPLE	MALUS FUSCA	FACW	1 GALLON	500	6	14	PLANT ADJACENT TO UPSLOPE FROM SEDGE. CAN TOLERATE SATURATION.
SITKA WILLOW	SALIX SITCHENSIS	FACW	1 GALLON	500	6	14	PLANT ADJACENT TO UPSLOPE FROM SEDGE. CAN TOLERATE SATURATION.
EMERGENT							
SLOUGH SEDGE	CAREX OBTNUPTA	OBL	1/4-INCH POT, PLUG OR TUBELING	1125	2	261	PLANT IN THE DEEPEST PARTS OF THE CREATED WETLAND WHERE TEMPORARY INUNDATION IS EXPECTED.
CREeping SPIKERUSH	ELDOCHARIS PALUSTRIS	OBL	1/4-INCH POT, PLUG OR TUBELING	1125	2	261	PLANT IN THE DEEPEST PARTS OF THE CREATED WETLAND WHERE TEMPORARY INUNDATION IS EXPECTED.

LEGEND	
EXISTING WETLAND	
WETLAND PLANTING AREA	
BUFFER PLANTING AREA	
EXISTING ASPHALT	



APPLICANT: CITY OF MUKILTEO, PUBLIC WORKS DEPARTMENT

PURPOSE: WIDEN HARBOUR POINTE BOULEVARD TO ACCOMMODATE TRUCK ACCESS

REFERENCE NUMBER: (TO BE DETERMINED)

ADJACENT PROPERTY OWNERS:

LOCATION: SNOHOMISH COUNTY

LAT/LONG: 47.930044°, 122.290486°

DATUM: LIDAR

DATE: 11/30/17

SHEET 8 OF 8

FIGURE 8 -OFF SITE PLANTING PLAN

PROPOSED PROJECT: HARBOUR POINTE BOULEVARD WIDENING

NEAR: MUKILTEO COUNTY: SNOHOMISH

STATE: WASHINGTON