



# 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: \_\_\_\_\_

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) [\[help\]](#)

Al Helenberg Memorial Boat Launch Safety Improvements

### Part 2—Applicant

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

2a. Name (Last, First, Middle)

Vorse, Dave

2b. Organization (If applicable)

City of Castle Rock Public Works

2c. Mailing Address (Street or PO Box)

PO Box 370

2d. City, State, Zip

Castle Rock, WA 98611

2e. Phone (1)

2f. Phone (2)

2g. Fax

2h. E-mail

(360) 274-7478

crpwd@ci.castle-rock.wa.us

<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)			
Wills, Kate'Lyn (KT)			
<b>3b.</b> Organization (If applicable)			
Ecological Land Services, Inc.			
<b>3c.</b> Mailing Address (Street or PO Box)			
1157 3 <sup>rd</sup> Avenue, Suite 220A			
<b>3d.</b> City, State, Zip			
Longview, WA 98632			
<b>3e.</b> Phone (1)	<b>3f.</b> Phone (2)	<b>3g.</b> Fax	<b>3h.</b> E-mail
(360) 578-1371		(360) 414-9305	KT@eco-land.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.

<b>4a.</b> Name (Last, First, Middle)			
N/A			
<b>4b.</b> Organization (If applicable)			
City of Castle Rock			
<b>4c.</b> Mailing Address (Street or PO Box)			
PO Box 370			
<b>4d.</b> City, State, Zip			
Castle Rock, WA 98611			
<b>4e.</b> Phone (1)	<b>4f.</b> Phone (2)	<b>4g.</b> Fax	<b>4h.</b> E-mail
(360) 274-7478			crpwd@ci.castle-rock.wa.us

## 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>			
Site is accessed from 5040 Westside Highway			
<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>			
Castle Rock, Washington 98611			
<b>5d.</b> County <a href="#">[help]</a>			
Cowlitz County			
<b>5e.</b> Provide the section, township, and range for the project location. <a href="#">[help]</a>			
¼ Section	Section	Township	Range
	10	9N	2W
<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>			
46.2787 N lat./ -122.912 W long.			
<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>			
308770100 and 308800100			
<b>5h.</b> Contact information for all adjoining property owners. (If you need more space, use <a href="#">JARPA Attachment C.</a> ) <a href="#">[help]</a>			
Name	Mailing Address	Tax Parcel # (if known)	
LEWELLEN ARNOLD TRUST	287 GREEN ACRES DR, CASTLE ROCK	308950100	
CASTLE ROCK SCHOOL DISTRICT #401	5140 WESTSIDE HWY, CASTLE ROCK	308820100	
CASTLE ROCK SCHOOL DIST #401	5180 WESTSIDE HWY, CASTLE ROCK	308810100	
HUGHES DANIEL/SHELLEY J	5040 WESTSIDE HWY, CASTLE ROCK	308970100	
<b>5i.</b> List all wetlands on or adjacent to the project location. <a href="#">[help]</a>			
There are no wetlands within or adjacent to the study area.			

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

Cowlitz River

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

Yes  No  Don't know

The Cowlitz River is considered a Regulatory Floodway zone by FEMA. The upland portion of the site lies within the 0.2% annual chance flood area.

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

The site is defined by generally flat topography with an approximately 35 percent slope along the shoreline of the Cowlitz River which comprises the eastern project boundary. Riprap is present along the toe of the stream banks upstream and downstream of the project area. The vegetation onsite consists of mowed and maintained yard grass with a thin stand of black cottonwood (*Populus balsamifera*) trees along the shoreline.

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

The property is zoned for "Parks, Recreation, and Open Space". The site currently consists of a parking lot, boat launch, floating docks, various outbuildings, and walking trails that are utilized by the public. The land westerly adjacent to the Cowlitz River had been used as a location for dredge spoils from the emergency clean-up efforts after the eruption of Mount St. Helens in 1980.

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

The study area is bordered to the north and west by property owned and utilized by the Castle Rock School District. Properties to the south consist of small residential lots containing single-family dwellings (Sheet 2).

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

The site currently consists of a parking lot, boat launch, floating docks, various outbuildings, and walking trails, all in good working condition.

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

From I-5 N, take exit 49 west toward downtown Castle Rock. Turn right onto A Street SW and continue over the bridge over the Cowlitz River. Turn right onto WA-411/Westside Hwy. The boat launch is accessed by a driveway on the right at located at 5040 Westside Highway.



## Part 6–Project Description

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

The City of Castle Rock (City), proposes to construct a structure that will reduce streamflow velocities at the boat ramp to improve both safety and access for boaters. The project includes improved maintenance access, shore stabilization, and dredging.

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

The Al Helenberg Memorial Boat Launch was constructed approximately 1,300 feet upstream of the State Route 411 Bridge to provide recreational boat access to the Cowlitz River in 2010. Since the construction of the boat launch, boaters have indicated through town hall meetings and letters to the City, that streamflow velocities at the boat ramp frequently make use of the ramp difficult or even dangerous. Due to these increasing safety concerns, usage of the boat launch has steadily declined over the last few years. Emergency services have also indicated to the City the need for safety improvements at the boat launch in order to access to the Cowlitz River for rescues and recovery efforts. Currently, the nearest access for emergency services to the Cowlitz River is approximately 10 miles to the south in Kelso.

**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 checked="" type="checkbox"/> Bank Stabilization | <input type="checkbox"/> Dam / Weir           | <input type="checkbox"/> Floating Home             | <input 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Piling/Dolphin |  |
| <input type="checkbox"/> Channel Modification          | <input type="checkbox"/> Fishway              | <input type="checkbox"/> Raft                      |  |

- Other: Stream flow velocity control structure.

**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 Cowlitz River is considered a Regulatory Floodway zone by FEMA. The upland portion of the site lies within the 0.2% annual chance flood area.

### **Project Overview**

The project has been designed based on the recommendations by WEST Consultants, dated November 1, 2016 (West 2016). This project proposes to construct a structure consisting of two reinforced 30-foot long cast-in-place concrete panels supported by a combination of vertical, diagonal, and battered-in H-piles. The panels are designed to improve safety at the boat launch by slowing the velocity of the water upstream while also maintaining adequate water velocity to minimize material deposition. The walls are proposed approximately 300 feet upstream of the launch, which will necessitate 1) construction of an access road to the work area (north maintenance access road); 2) installation of a steel sheet-pile cofferdam around of the work area; and 3) placement of riprap on the riverbank in the project area. The access road functions to provide access to the work area but will ultimately be used as a maintenance access to the riprap revetment to assess potential failures of the erosion control measures. A second road (south maintenance access road) is proposed on the opposite side of the boat launch for the future maintenance access. Construction of the proposed facility improvements will necessitate the removal of 24 black cottonwood (*Populus balsamifera*) trees to facilitate construction of the north access road and direct access to the in-river work area. Maintenance dredging is ongoing to maintain water depths suitable for launching boats and will continue after the walls are constructed.

### **North Maintenance and Construction Access**

Construction equipment will access the project area via the proposed north road, consisting of a gravel access road that is 275 feet long and 12 feet wide. The road will be constructed along the top of the riverbank, north of the boat launch. To install this maintenance access, 22 cottonwood trees will need to be removed. The approximately 3,600 square feet of riverbank immediately waterward of the north road will be prepared for construction access by the removal of the existing riprap and its replacement with new heavy loose riprap (see below). This area will function as access to the work area, a solid base for the excavators to track down the riverbank, and erosion control post project completion. Materials will also be lowered to the construction site using a crane. Silt fencing will be installed at the waterward edge of tree removal and the north access road (Sheet 3). Additional BMPs will be utilized to prevent construction impacts to the Cowlitz River (see Avoidance and Minimization Section). This road will remain following construction and used for maintenance access by the City.

### **South Maintenance Access Road**

As part of this project, a second maintenance access road will be constructed south of the boat launch to provide direct access to the floating docks. The access road will be a 12-foot wide gravel road that extends approximately 215-feet from the existing parking area to the top of the riverbank. To install this maintenance access, 2 cottonwood trees will need to be removed. Stormwater generated on the south side road will be conveyed into the stormwater pond that currently provides storage function for the park. Silt fencing will be placed waterward of the work area to protect the river from impacts (Sheet 3).

### **Riprap Replacement**

The riprap will be composed, a 3-foot thick layer of heavy loose riprap (Washington Department of Transportation specifications) and will be placed along the shoreline with a flat toe extending below the OHWM (Sheet 6). The riprap will be placed in the area cleared for access to the in-river work area from the north side maintenance access road. The riprap will extend along the shoreline for 125 feet downriver of the concrete panels. Approximately 132 cubic yards of riprap are expected to be required.

### **Temporary Cofferdam Installation and Removal**

To allow for the installation of the concrete walls, a temporary cofferdam will be installed around the work area (Sheet 3). This cofferdam will be constructed of approximately 275 linear feet of steel sheet piles, which will be installed using excavator-mounted vibratory equipment. The selected contractor will develop a more specific cofferdam plan so other cofferdam systems may be utilized to isolate the work area, depending on actual field

conditions at the time of construction. Vertical interlocking sheet piles (1-foot thick by 2 feet wide) will be vibratory driven to refusal at the assumed gravel layer approximately 30 feet below the mudline and then hammer driven an additional 4 feet minimum as needed to reach the appropriate depth. A driving shoe<sup>3</sup> will be used at end of the piles for ease of driving the pile into the substrate and a confined bubble curtain will be used for installation of the cofferdam during hammer driving.

Once the cofferdam is fully installed, the work area will be dewatered to allow for wall construction in a dry environment. Fish exclusion will precede dewatering and will be conducted using block nets that are set upstream and downstream of the work area. The block nets will remain in place at least through cofferdam installation but may remain for the duration of the proposed work. River water removed from the cofferdam area will be pumped to a tank or temporary pond outside of all critical areas that will facilitate settling before it is release back into the river downstream of the project area.

After construction is complete, the temporary cofferdam will be removed utilizing the same equipment as was used for the installation. The steel sheets, equipment and remaining materials will be lifted from the riverbank utilizing a crane and the excavation equipment will track back up the riprapped bank.

The work area within the cofferdam will be dewatered using a pump that will force water through pipe up the riverbank and into a tank or pond. The water will be allowed to settle for at least 1 day before it is pumped from the tank or pond and piped for discharge into the river downstream of the work area.

### **Fish Exclusion**

The work area will be isolated from the Cowlitz River by installation of a temporary cofferdam to dewater the work area. It will be confined to along a section of the riverbank and does not extend across the entire wetted channel so fish exclusion will take the form of upstream and downstream block nets. The upstream block net will be installed at the start of the in-water work and precedes the start of cofferdam installation. Block nets are composed of 9.5 millimeter stretched nylon mesh that are installed at an angle to the direction of flow. The nets will be held in place using anchor bags filled with clean washed gravel and will be removed following dewatering of the work area within the cofferdam. The nets will be regularly inspected for impinged fish at least three times daily or as requested by the project engineer. Inspections will occur at the start, middle and end of each work day; in the morning, noon, and evening of non-work days; and within the first 24 hours following a significant rainfall and/or when there is a change in flow volume or velocity.

### **Wall Construction**

The two 30-foot long by 5-foot-thick concrete panels will be supported by 34 - W12x53 (12-inch x 53 lbs./foot) steel H-piles placed vertical, battered, and in-plane diagonal directions (Sheet 5). Installation of the vertical piles will be done using vibratory equipment and impact driving as necessary to a depth of approximately 34-feet below the existing mudline. Batter and in-line diagonal piles will be driven using vibratory equipment to refusal at the gravel layer. The gravel layer is assumed to be approximately 30 feet below mudline. If shallower gravel layer prevents the pile from being vibratory driven to the required depth, the engineer will be contacted to determine if the first refusal gravel layer will be sufficient or if hammer driving will be needed to reach the required depth. The 5 feet by 30 feet, 8-inch thick concrete panels will be cast in place.

### **Maintenance Dredging**

The City maintains the boat launch area to ensure proper water depths for boat launching, which involves dredging the sediments from within the Cowlitz River. Sediment accumulates within the launch basin and alcove at a rate that necessitates regular maintenance dredging as described in the 2007 biological evaluation (URS 2007). The river was dredged in 2008 for construction of the current boat launch to create an alcove and launch basin for boat accessibility to the concrete launch lanes. Mitigation for dredging activities was completed at this time offsite at Whittle Creek. The City has been conducting dredging on a regular basis, which according to documentation from the City, has been conducted nine times over the past three years. The document also indicates that even though dredging has been conducted multiple times per year, the removed material does

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<sup>3</sup> A driving shoe is a cast or fabricated steel drive shoe which may be pointed and is fixed to the pile shaft at the tip for easier driving, improved penetration, protection against damage in dense material or boulders and improved bearing at the tip. Also called Driving Point, Drive Shoe, Pile Shoe or Conical Point.

not exceed the originally specified 200 cubic yard annual maximum. Dredging is conducted using an excavator staged on the boat launch, which reaches into the basin to remove the accumulated sediment. It is loaded onto a dump truck and moved to an onsite upland location outside of the riparian zone in proximity to the river. Maintenance dredging is ongoing under the current permit which expires in March of 2022 and is expected to be necessary in the long term for which a new 10-year permit is requested.

### Construction Sequencing

The project will be initiated with the removal trees followed by construction of the north maintenance access road and installation of the cofferdam. Construction will be conducted in the following sequence:

1. Removal of 24 black cottonwood trees from the upper riverbank.
2. Construction of the north maintenance access road for access to the work area. This road will be a permanent feature for future maintenance activities. The south maintenance access road may also be constructed during this step.
3. Preparation of the riverbank will include removal of existing riprap that was placed when the boat launch was constructed. New heavy loose riprap will be placed on the riverbank and will function as access to the work area, a solid base for the excavators, and future erosion control.
4. Install block nets in the river to exclude fish during cofferdam installation. The nets will be installed upstream and downstream to move fish away from the work area (upstream) and prevent them from entering the work area (downstream).
5. Installation of the temporary cofferdam in the river using vibratory hammer.
6. Dewater the area within the cofferdam using pump that will convey water to a tank or pond where it will remain until the sediments settle out. Water will then be discharged back into the river downstream of the work area.
7. Drive the H-pile supports for the concrete wall panels using vibratory hammer method with impact hammer method as needed.
8. Cast concrete walls in place.
9. Remove temporary cofferdam.
10. Remove equipment from work area.

### Project Timing

The project is proposed to be constructed in 2021 between July and September. Construction activities will be limited to daylight hours and from 7:00 a.m. to 6:00 p.m., Monday through Friday.

Upland work away from the shoreline will take approximately 1 month to complete and includes earthwork, grading, installing constructing the access roads, and installation and removal of temporary erosion control measures.

In-water work will occur within the current Cowlitz River work window between August 1 through August 15 per the Corps and WDFW. This work will include installation of temporary cofferdam, pile driving, concrete panel installation and installing riprap. The total in water work is expected to take approximately 10 days (2 work weeks).

**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: July 1, 2021      End Date: September 30, 2021       See JARPA Attachment D

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

1,000,000

**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						
<b>7b.</b> Will the project impact wetlands? <a href="#">[help]</a>						
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know						
<b>7c.</b> Will the project impact wetland buffers? <a href="#">[help]</a>						
<input 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 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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know						
<b>7g.</b> Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. <a href="#">[help]</a>						
<b>7h.</b> 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. <a href="#">[help]</a>						
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)

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

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

## 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

The preferred mitigation sequencing of first avoidance, then minimization, and finally compensation for unavoidable impacts to critical areas was taken into consideration during the project design process; however, due to the nature of the project certain impacts were unavoidable. Two alternatives analyses were prepared to address alternative designs (ELS 2020, WEST 2016).

The project has been designed to avoid and minimize impacts to habitats and species that may potentially occur in the vicinity of the project area. This will be accomplished by using the following measures:

### Design:

- The original plan described to the agencies proposed construction of three walls and it was reduced to two at their request.
- Avoid detrimental impacts to fish during construction by constructing the temporary cofferdam.
- Dewatering behind the temporary cofferdam will be directed to a tank or pond for settling before being released into the river.
- Using vibratory installation methods for piling installation to the maximum extent possible to minimize the use of the impact driving.
- Stormwater runoff from the construction area will be directed to the tank or pond for settling before being released into the river. The stormwater will be collected independently of the river water pumped from within the cofferdam. Stormwater collection will begin following discharge of the river water back into the river.
- The north maintenance road will be constructed above OHW and will function as access to the work area for construction activities.

### General

- Conditions in local, state, and federal permits will be followed.
- Any stockpiled soils from construction of the access roads and wall sections will either be hauled away the same day or covered with plastic until it is removed from the site.
- During construction disturbed soils will be stabilized by grading and compaction, and installation of temporary silt fence to avoid impacts to the river from erosion.
- Permanent erosion control of the site will include riprap stabilization of the riverbank and hydroseeding of the disturbed upland areas.
- No equipment refueling will take place within 150 feet of the river.

### In-Water

- Contractors will have a spill containment and pollution control plan, and their employees will be trained in its implementation.
- The concrete panels will be constructed within the work area while the cofferdam is in place so that it can be constructed in the dry. Following construction, the area of construction will be cleaned of all remnants of concrete materials.
- New piles will be installed mainly using a vibratory hammer. Impact hammer will be used to move the piles through hard layers necessary to reach the desired depth.
- Bird deterrents taking the form of plastic or steel bird deterrent spikes will be placed atop the walls to prevent perching and impacts from bird activity. The deterrent spikes are available in lengths of 24 feet long and are intended to keep birds from landing and will not injure birds.
- A soft-start technique will be used for vibratory and impact-hammer pile driving outside of the cofferdam to allow aquatic species to leave the work area before full energy is used to drive the pile.
- Use of an impact hammer to install the cofferdam piling may require use of a confined bubble curtain.

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

The preferred mitigation sequencing of first avoidance, then minimization, and finally compensation for unavoidable impacts to critical areas was taken into consideration during the project design process; however, due to the nature of the project certain impacts were unavoidable. This project will directly impact 0.002 acres (90 sq. ft.) of aquatic habitat and 0.57 acres (25,037 sq. ft.) of riparian habitat. Impacts will be fully compensated for by purchasing 0.14 universal mitigation credits and 0.41 Discounted Service Acre Years (DSAYs) at the Coweeman Mitigation Bank (CRMB).

The 2008 *Compensatory Mitigation for Losses of Aquatic Resources, Final Rule* (Corps) recommends purchasing mitigation bank credits for ecological considerations (lower risk of failure and lower temporal loss of resources and services) and to avoid the maintenance and contingency issues and outright failures that often accompany permittee-responsible mitigation sites. Use of CRMB substantially lowers the risk of failure and temporal loss of resource functions and services over newly established, permittee-responsible mitigation sites.



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

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
Cofferdam/steel sheet piles	Cowlitz River	Waterward of OHWM/Regulatory floodway	30 days	275' long x 1' thick	275 linear ft.
Two Wall Segments	Cowlitz River	Waterward of OHWM/Regulatory floodway	Permanent	6- Concrete Panels 5' x 10' and 8" thick 34 - W12x53 <sup>4</sup> H-piles 12" x 12"	0.002 ac./ 90 sq. ft.
Maintenance Dredging	Cowlitz River	Waterward of OHWM/Regulatory floodway	Permanent	No more than 200 cubic yards/year	0.60 ac./ 26,000 sq. ft.
Gravel access	Cowlitz River	Landward of OHWM/Riparian Buffer/0.2% annual chance flood area	Permanent	110 cubic yards	0.12 ac./ 5,459 sq. ft.
Clearing (24 Cottonwoods)	Cowlitz River	Landward of OHWM/Riparian Buffer/0.2% annual chance flood area	Permanent	24 trees	<u>Canopy Area</u> 0.45 ac./ 19,578 sq. ft.

<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.

<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.

<sup>3</sup> 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. [\[help\]](#)

<sup>4</sup> W12x53 refers to piles that are 12 inches thick with a weight of 53 pounds per foot.



### **Maintenance and Construction Access**

Construction equipment will access the project area via the proposed north road, consisting of a gravel access road that is 275 feet long and 12 feet wide. The road will be constructed along the top of the riverbank, north of the boat launch. To install this maintenance access, 22 cottonwood trees will need to be removed. The approximately 3,600 square feet of riverbank immediately waterward of the north road will be prepared for construction access by the removal of the existing riprap and its replacement with new heavy loose riprap (see below). This area will function as access to the work area, a solid base for the excavators to track down the riverbank, and erosion control post project completion. Materials will also be lowered to the construction site using a crane. Silt fencing will be installed at the waterward edge of tree removal and the north access road (Sheet 3). Additional BMPs will be utilized to prevent construction impacts to the Cowlitz River (see Avoidance and Minimization Section). This road will remain following construction and used for maintenance access by the City. As part of this project, a second maintenance access road will be constructed south of the boat launch to provide direct access to the floating docks. The access road will be a 12-foot wide gravel road that extends approximately 215-feet from the existing parking area to the top of the riverbank. To install this maintenance access, 2 cottonwood trees will need to be removed. Stormwater generated on the south side road will be conveyed into the stormwater pond that currently provides storage function for the park. Silt fencing will be placed waterward of the work area to protect the river from impacts (Sheet 3). Approximately 110 cubic yards of gravel are expected to be required.

### **Temporary Cofferdam Installation and Removal**

To allow for the installation of the concrete walls, a temporary cofferdam will be installed around the work area (Sheet 3). This cofferdam will be constructed of approximately 275 linear feet of steel sheet piles, which will be installed using excavator-mounted vibratory equipment. The selected contractor will develop a more specific cofferdam plan so other cofferdam systems may be utilized to isolate the work area, depending on actual field conditions at the time of construction. Vertical interlocking sheet piles (1-foot thick by 2 feet wide) will be vibratory driven to refusal at the assumed gravel layer approximately 30 feet below the mudline and then hammer driven an additional 4 feet minimum as needed to reach the appropriate depth. A driving shoe<sup>5</sup> will be used at end of the piles for ease of driving the pile into the substrate and a confined bubble curtain will be used for installation of the cofferdam during hammer driving.

Once the cofferdam is fully installed, the work area will be dewatered to allow for wall construction in a dry environment. Fish exclusion will precede dewatering and will be conducted using block nets that are set upstream and downstream of the work area. The block nets will remain in place at least through cofferdam installation but may remain for the duration of the proposed work. River water removed from the cofferdam area will be pumped to a tank or temporary pond outside of all critical areas that will facilitate settling before it is release back into the river downstream of the project area.

After construction is complete, the temporary cofferdam will be removed utilizing the same equipment as was used for the installation. The steel sheets, equipment and remaining materials will be lifted from the riverbank utilizing a crane and the excavation equipment will track back up the riprapped bank.

The work area within the cofferdam will be dewatered using a pump that will force water through pipe up the riverbank and into a tank or pond. The water will be allowed to settle for at least 1 day before it is pumped from the tank or pond and piped for discharge into the river downstream of the work area.

### **Wall Construction**

The two 30-foot long by 5-foot-thick concrete panels will be supported by 34 - W12x53 (12-inch x 53 lbs./foot) steel H-piles placed vertical, battered, and in-plane diagonal directions (Sheet 5). Installation of the vertical piles will be done using vibratory equipment and impact driving as necessary to a depth of approximately 34-feet below the existing mudline. Batter and in-line diagonal piles will be driven using vibratory equipment to refusal at the gravel layer. The gravel layer is assumed to be approximately 30 feet below mudline. If shallower gravel layer prevents the pile from being vibratory driven to the required depth, the engineer will be contacted to determine if the first refusal gravel layer will be sufficient or if hammer driving will be needed to reach the required depth. The 5 feet by 30 feet, 8-inch thick concrete panels will be cast in place.

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

**Maintenance Dredging**

The City maintains the boat launch area to ensure proper water depths for boat launching, which involves dredging the sediments from within the Cowlitz River. Sediment accumulates within the launch basin and alcove at a rate that necessitates regular maintenance dredging as described in the 2007 biological evaluation (URS 2007). The river was dredged in 2008 for construction of the current boat launch to create an alcove and launch basin for boat accessibility to the concrete launch lanes. Mitigation for dredging activities was completed at this time offsite at Whittle Creek. The City has been conducting dredging on a regular basis, which according to documentation from the City, has been conducted nine times over the past three years. The document also indicates that even though dredging has been conducted multiple times per year, the removed material does not exceed the originally specified 200 cubic yard annual maximum. Dredging is conducted using an excavator staged on the boat launch, which reaches into the basin to remove the accumulated sediment. It is loaded onto a dump truck and moved to an onsite upland location outside of the riparian zone in proximity to the river. Maintenance dredging is ongoing under the current permit which expires in March of 2022 and is expected to be necessary in the long term for which a new 10-year permit is requested.

**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
Corps	Danette Guy	206-348-3999	6/2019
DNR	Denise Wilhelm	360-740-6824	6/2019
WDFW	George Fornes	360-623-0651	6/2019

**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? [\[help\]](#)

- If Yes, list the parameter(s) below.
- If you don’t know, use Washington Department of Ecology’s Water Quality Assessment tools at: <https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d>.

Yes     No

Approximately 10 miles upstream of the site the Cowlitz River is on the 303d list for PCBs, Dioxin, and Mercury. Approximately 10 miles downstream near Lexington the Cowlitz River is on the 303d list for temperature.

**9c.** What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [\[help\]](#)

- Go to <http://cfpub.epa.gov/surf/locate/index.cfm> to help identify the HUC.

170800050904 – Whittle Creek-Cowlitz River

<sup>5</sup> A driving shoe is a cast or fabricated steel drive shoe which may be pointed and is fixed to the pile shaft at the tip for easier driving, improved penetration, protection against damage in dense material or boulders and improved bearing at the tip. Also called Driving Point, Drive Shoe, Pile Shoe or Conical Point.

<p><b>9d.</b> What Water Resource Inventory Area Number (WRIA #) is the project in? <a href="#">[help]</a></p> <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>
26 Cowlitz
<p><b>9e.</b> Will the in-water construction work comply with the State of Washington water quality standards for turbidity? <a href="#">[help]</a></p> <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
<p><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></p> <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 checked="" type="checkbox"/> Aquatic <input type="checkbox"/> Conservancy <input checked="" type="checkbox"/> Other: <u>Recreation, Open Space</u>
<p><b>9g.</b> What is the Washington Department of Natural Resources Water Type? <a href="#">[help]</a></p> <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 checked="" type="checkbox"/> Shoreline <input type="checkbox"/> Fish <input type="checkbox"/> Non-Fish Perennial <input type="checkbox"/> Non-Fish Seasonal
<p><b>9h.</b> Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li><b>If 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: _____
<p><b>9i.</b> Does the project site have known contaminated sediment? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li><b>If Yes</b>, please describe below.</li> </ul>
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p><b>9j.</b> If you know what the property was used for in the past, describe below. <a href="#">[help]</a></p> <p>The land westerly adjacent to the Cowlitz River had been used as a location for dredge spoils from the emergency clean-up efforts after the eruption of Mount St. Helens in 1980. The Al Helenberg Memorial Boat Launch was constructed approximately 1,300 feet upstream of the State Route 411 Bridge to provide recreational boat access to the Cowlitz River in 2010.</p>
<p><b>9k.</b> Has a cultural resource (archaeological) survey been performed on the project area? <a href="#">[help]</a></p> <ul style="list-style-type: none"> <li><b>If Yes</b>, attach it to your JARPA package.</li> </ul>
<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. [\[help\]](#)

Lower Columbia River ESU - Chinook Salmon (*Onchorhynchus tshawytscha*)  
Columbia River ESU - Chum Salmon (*Onchoryhynchus keta*)  
Lower Columbia River ESU - Coho Salmon (*Onchorhynchus kisutch*)  
Lower Columbia River DPS - Steelhead (*Onchorhynchus mykiss*)  
Columbia River DPS - Bull Trout (*Salvelinus confluentus*)  
Southern DPS (Columbia River Smelt) - Eulachon (*Thaleichthys pacificus*)  
Golden Paintbrush (*Castilleja levisecta*)  
Kincaid's Lupine (*Lupinus sulphureus*)  
Marbled Murrelet (*Brachyramphus marmoratus*)  
Streaked Horned Lark (*Eremophila alpestris strigata*)  
Yellow-billed Cuckoo (*Coccyzus americanus*)

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

Lower Columbia River ESU - Chinook Salmon (*Onchorhynchus tshawytscha*)  
Columbia River ESU - Chum Salmon (*Onchoryhynchus keta*)  
Lower Columbia River ESU - Coho Salmon (*Onchorhynchus kisutch*)  
Lower Columbia River DPS - Steelhead (*Onchorhynchus mykiss*)

## 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 <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 Ecology/City (lead agency). The expected decision date is TBD.

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

**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:**

- General Bridge Act Permit     Private Aids to Navigation (for non-bridge projects)

**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.     DV     (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.     DV     (initial)

Dave Vorse  
Applicant Printed Name

  
Applicant Signature

7/22/2020  
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.

Kate'Lyn (KT) Wills  
Authorized Agent Printed Name

  
Authorized Agent Signature

7/22/20  
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.

Ryan Green  
Castle Rock School District #401  
Property Owner Printed Name

  
Property Owner Signature

7/28/2020  
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

## **FIGURES**

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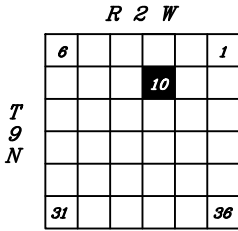
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**WASHINGTON**



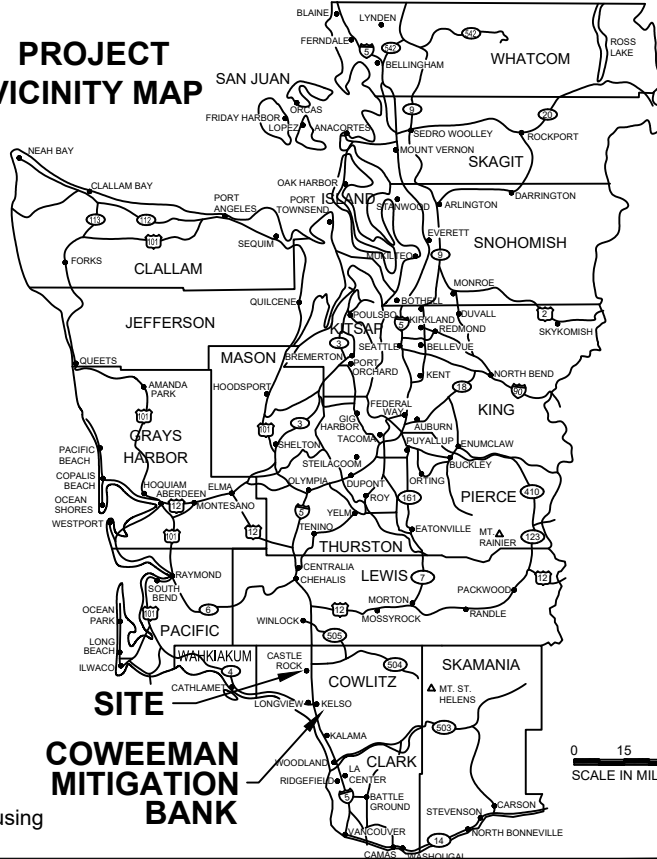
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**LOCATION MAP**



**NOTE:**  
USGS topographic quadrangle map reproduced using MAPTECH Inc., Terrain Navigator Pro software.

**PROJECT VICINITY MAP**



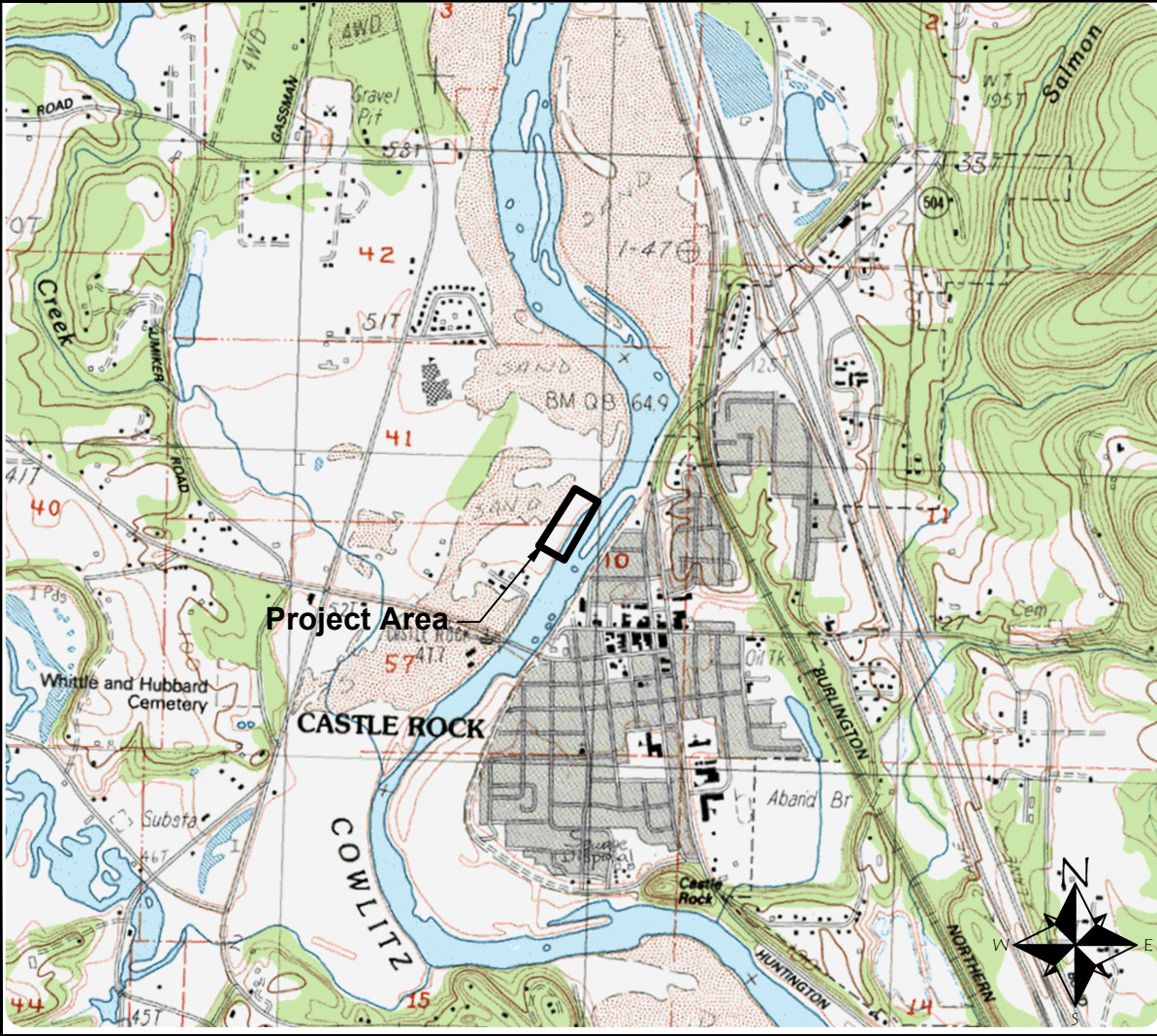
**SITE**  
**COWEEMAN MITIGATION BANK**

**PROPOSED:** Construction of structure to reduce streamflow velocities in Cowlitz River  
**NEAR:** Castle Rock  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 1 OF 9**  
**DATE:** 7/28/20

**VICINITY MAP**  
**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:** R.M. 17.6 Access at 5040 Westside Highway  
Castle Rock, WA 98611

**PURPOSE:** Safety and access improvements at boat launch  
**DATUM:** NAD83  
**ADJACENT PROPERTY OWNERS:**

SCALE IN FEET  
0 2000 4000  
1157 3rd Ave., Suite 220A  
Longview, WA 98632  
Phone: (360) 578-1371  
**Ecological Land Services**

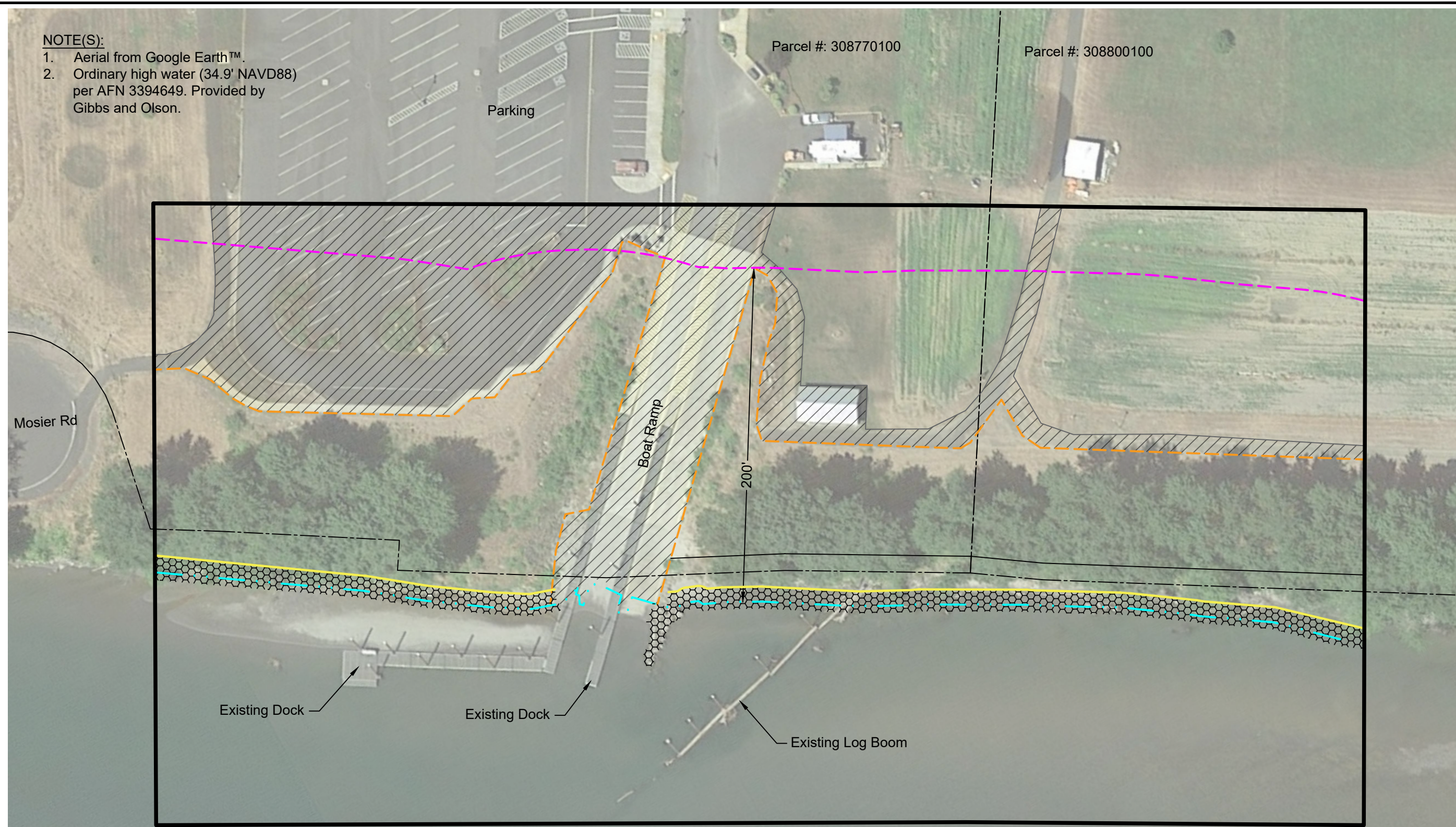




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**NOTE(S):**

1. Aerial from Google Earth™.
2. Ordinary high water (34.9' NAVD88) per AFN 3394649. Provided by Gibbs and Olson.



**LEGEND:**

- Project Area
- Parcel Boundaries
- Stream with Flow Direction
- OHWM

**LEGEND:**

- Shoreline Jurisdiction (200')
- Functionally Isolated Shoreline Buffer (250')
- Existing Impervious Surface
- Existing Rip Rap
- Existing Levee

Cowlitz River (Type S, Shoreline of Statewide Significance)



1157 3rd Ave., Suite 220A  
 Longview, WA 98632  
 Phone: (360) 578-1371



**PURPOSE:** Safety and access improvements at boat launch

**DATUM:** NAD83

**ADJACENT PROPERTY OWNERS:**

**EXISTING CONDITIONS**

**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
 R.M. 17.6 Access at 5040 Westside Highway  
 Castle Rock, WA 98611

**PROPOSED:** Construction of structure to reduce streamflow velocities

**IN:** Cowlitz River  
**NEAR:** Castle Rock  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 2 OF 9**  
**DATE:** 7/28/20



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**LEGEND:**

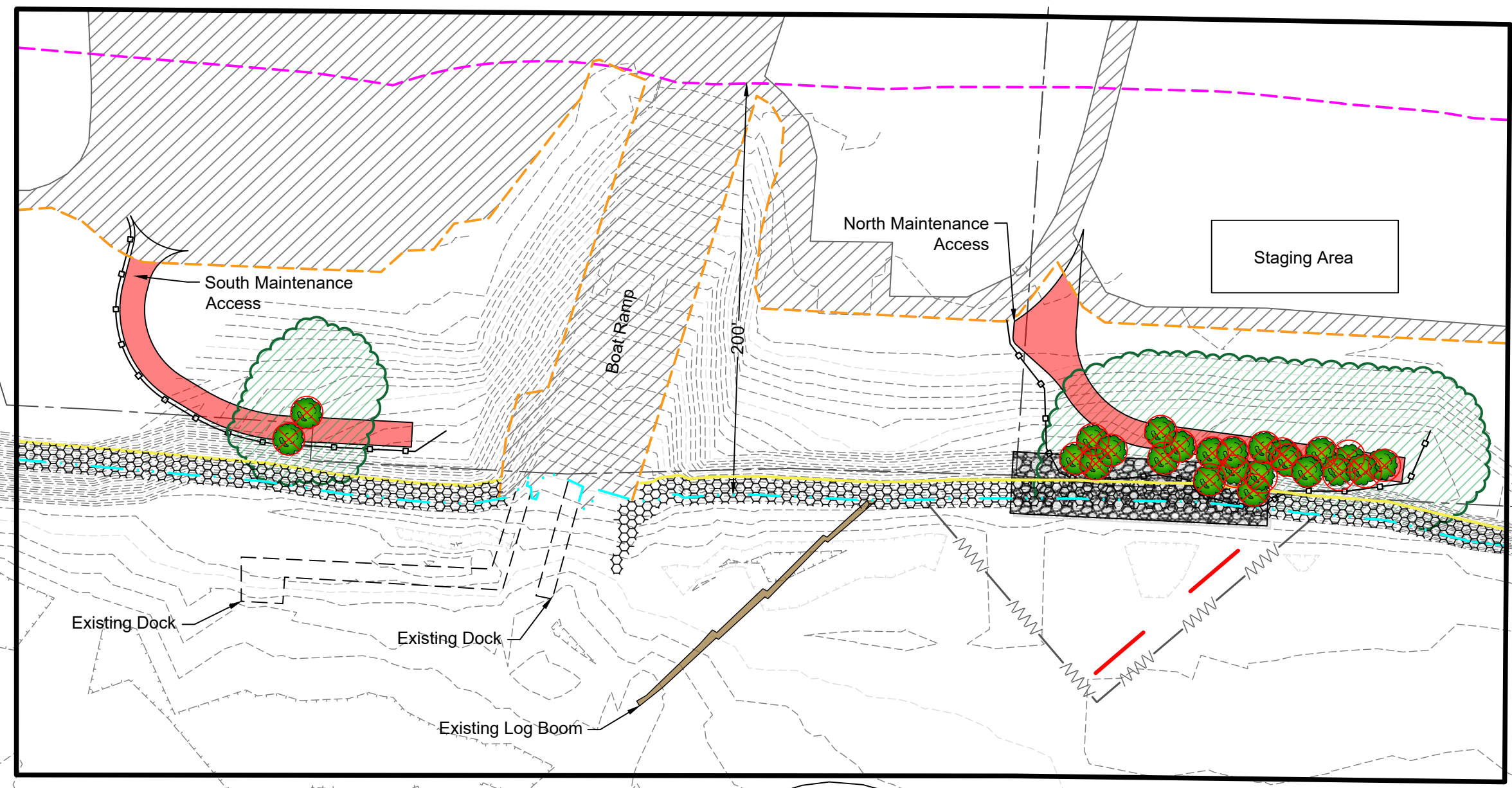
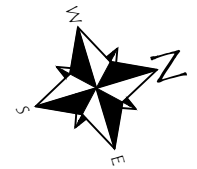
- Project Area
- Parcel Boundaries
- Shoreline Jurisdiction (200')
- Functionally Isolated Shoreline Buffer (250')
- OHWM
- Existing Impervious Surface
- Existing Rip Rap
- Existing Levee

**LEGEND:**

- Silt Fence
- Gravel Maintenance Access Impacts  
North - (0.07 ac./ 3,188 sq. ft.)  
South - (0.05 ac./ 2,271 sq. ft.)
- Riprap to be Replaced  
Landward of OHWM - (0.06 ac./ 2,400 sq. ft.)  
Waterward of OHWM - (0.03 ac./ 1,200 sq. ft.)
- Cofferdam
- Wall Sections (30' x 1'6" x 45')(0.001 ac./ 45 sq. ft. Each)

**Cottonwood Trees to be Removed**

- Stems (24 Total)
- Canopy (0.45 ac./ 19,578 sq. ft.)



Cowlitz River (Type S, Shoreline of Statewide Significance)

**NOTE(S):**

1. Site plan, topography, and bathymetry from Gibbs and Olson.
2. Ordinary high water (34.9' NAVD88) per AFN 3394649: Provided by Gibbs and Olson.



1157 3rd Ave., Suite 220A  
Longview, WA 98632  
Phone: (360) 578-1371



**PURPOSE:** Safety and access improvements at boat launch

**DATUM:** NAD83

**ADJACENT PROPERTY OWNERS:**

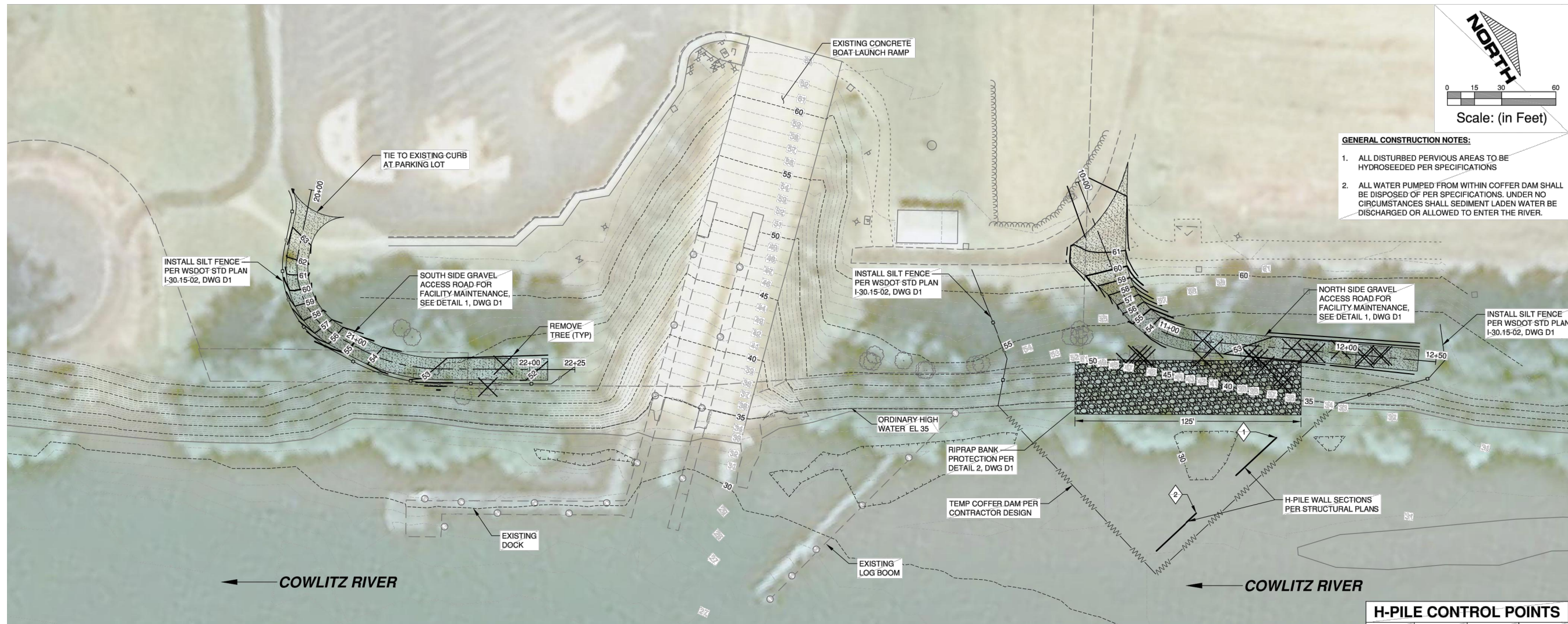
**PROPOSED CONDITIONS**

**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
 R.M. 17.6 Access at 5040 Westside Highway  
 Castle Rock, WA 98611

**PROPOSED:** Construction of structure to reduce streamflow velocities  
**IN:** Cowlitz River  
**NEAR:** Castle Rock  
**COUNTY:** Cowlitz **STATE:** WA  
**SHEET 3 OF 9**  
**DATE:** 7/28/20



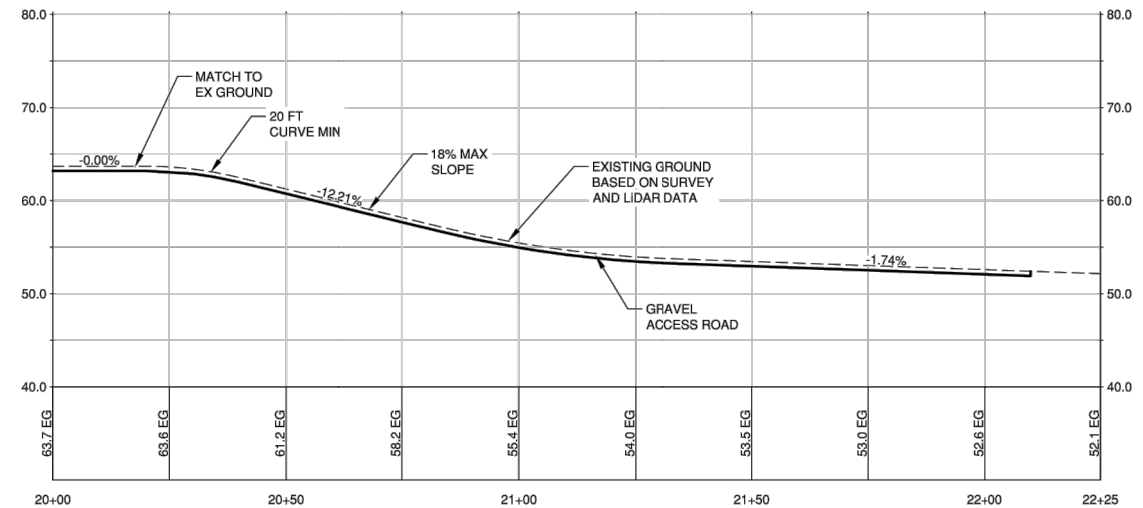
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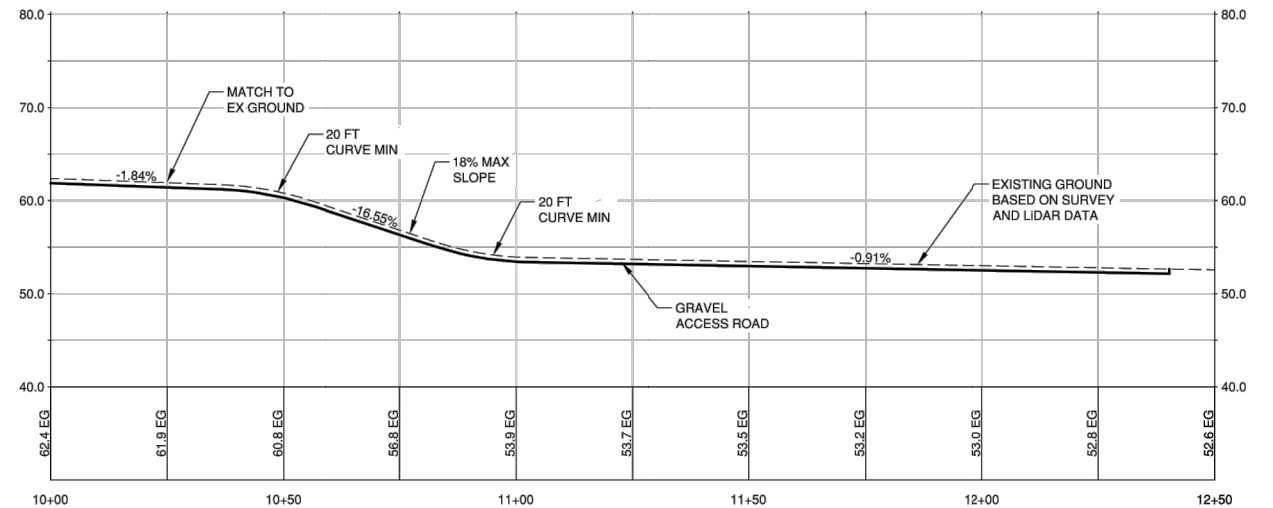
- GENERAL CONSTRUCTION NOTES:**
1. ALL DISTURBED PERVIOUS AREAS TO BE HYDROSEED PER SPECIFICATIONS
  2. ALL WATER PUMPED FROM WITHIN COFFER DAM SHALL BE DISPOSED OF PER SPECIFICATIONS. UNDER NO CIRCUMSTANCES SHALL SEDIMENT LADEN WATER BE DISCHARGED OR ALLOWED TO ENTER THE RIVER.

**H-PILE CONTROL POINTS**

POINT NO	NORTHING	EASTING	ANGLE
1	354134.53	1030918.92	S11°4'13"E
2	354074.89	1030930.98	S11°4'13"E



**SOUTH ACCESS ROAD**



**NORTH ACCESS ROAD**

**RIGHT-OF-WAY DISCLAIMER**  
 THE RIGHT-OF-WAY AND/OR PROPERTY LINES SHOWN HEREON ARE BASED ON AVAILABLE INFORMATION, NOT ON A SURVEYED LOCATION AND ARE ONLY APPROXIMATE

**PROPOSED:** Construction of structure to reduce streamflow velocities IN Cowlitz River  
**NEAR:** Castle Rock  
**COUNTY:** Cowlitz  
**STATE:** WA  
**SHEET 4 OF 9**  
**DATE:** 7/28/20

**BOAT LAUNCH PLAN VIEW**  
**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:** R.M. 17.6 Access at 5040 Westside Highway Castle Rock, WA 98611

**PURPOSE:** Safety and access improvements at boat launch

**DATUM:** NAD83  
**ADJACENT PROPERTY OWNERS:**

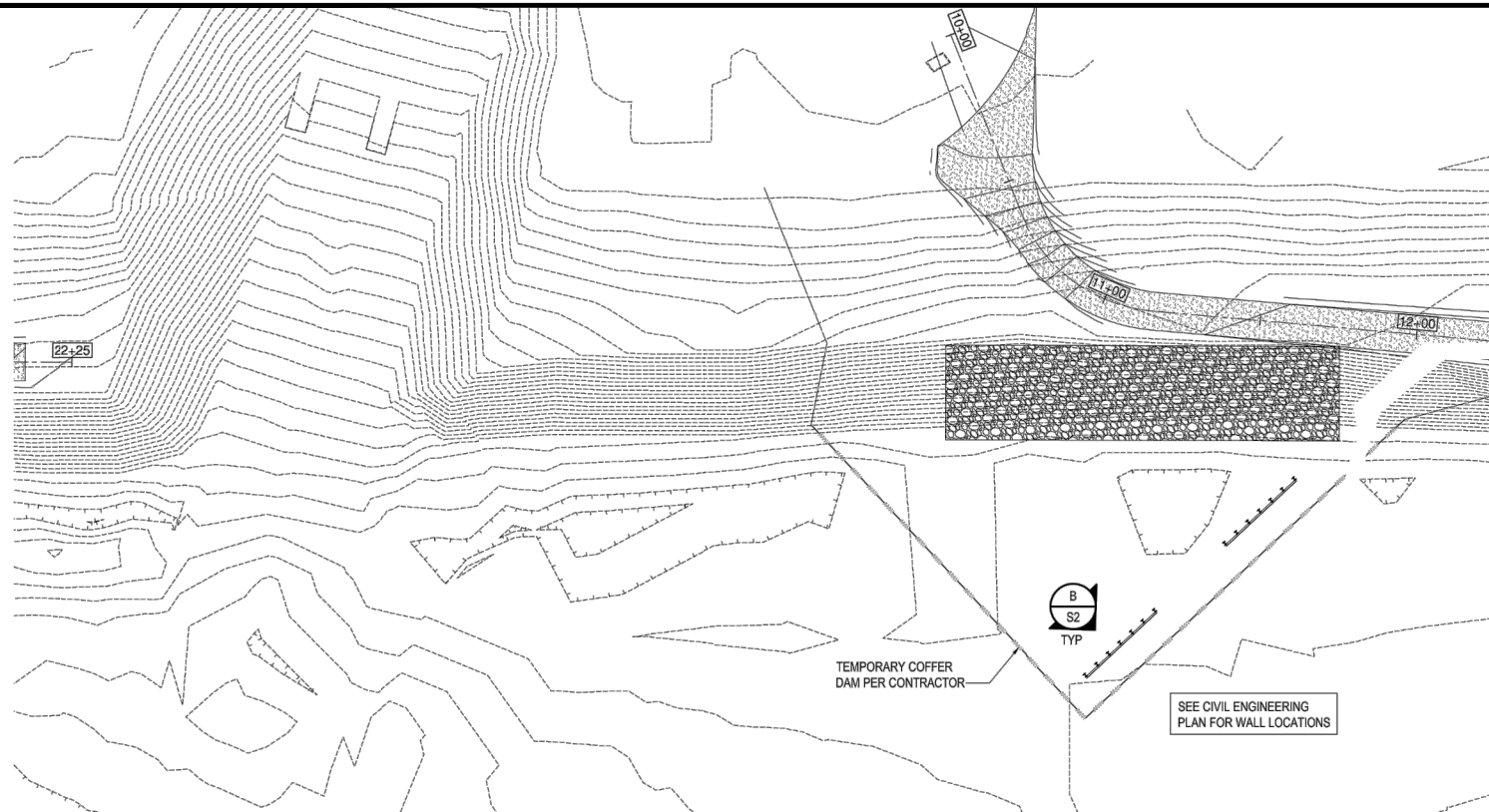
NOT TO SCALE



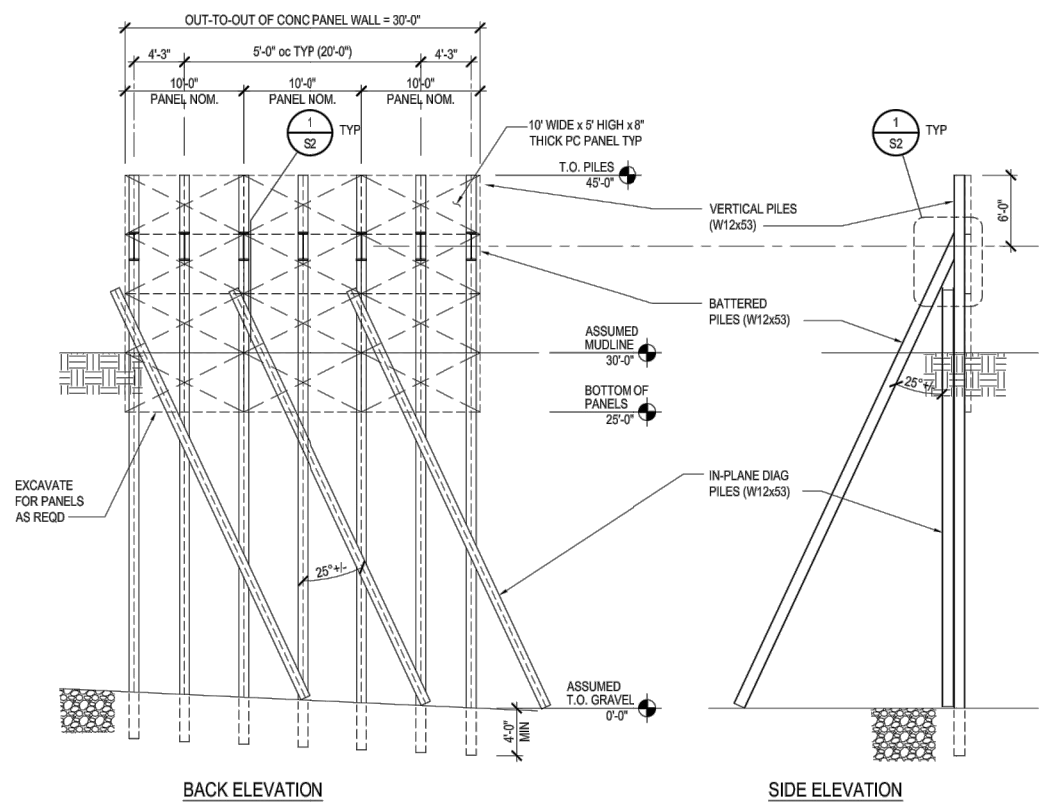
1157 3rd Ave., Suite 220A  
 Longview, WA 98632  
 Phone: (360) 578-1371



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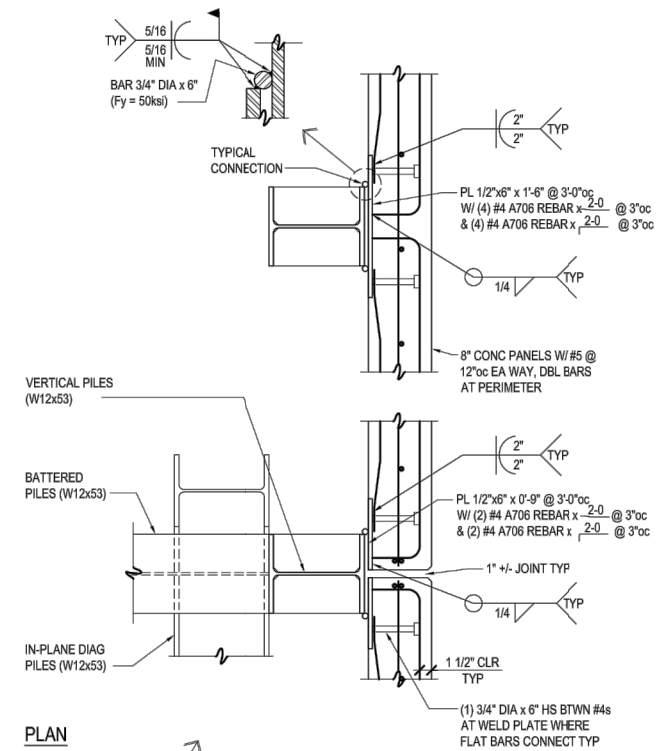


**A**  
S2  
PARTIAL PLAN  
1" = 30'-0"

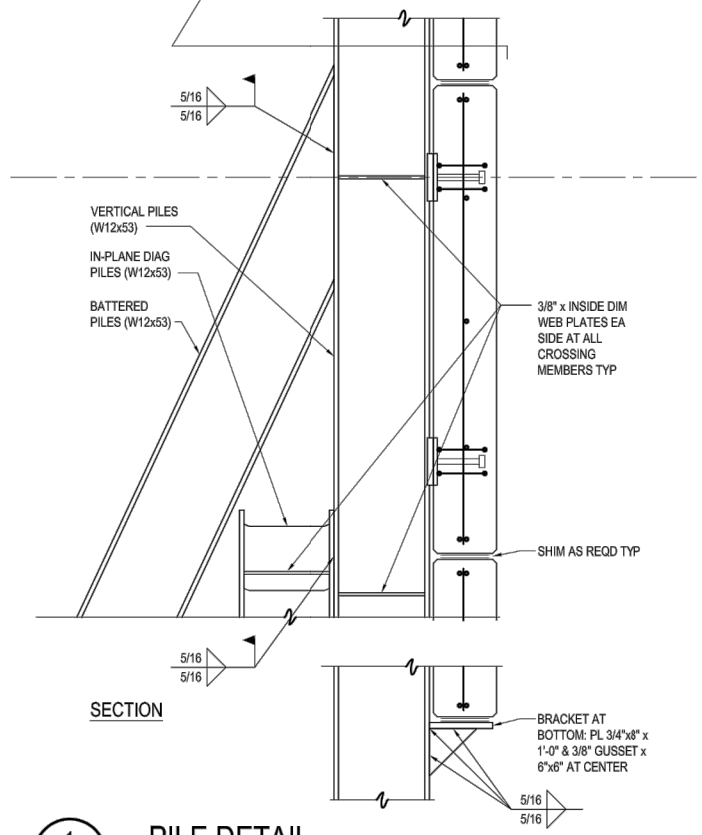


**B**  
S2  
WALL ELEVATION  
1/8" = 1'-0"

- NOTES**
- BATTER & IN-LINE DIAGONAL PILES TO BE VIBRATORY DRIVEN TO REFUSAL AT GRAVEL LAYER. GRAVEL LAYER ASSUMED TO BE APPROXIMATELY 30 FEET BELOW MUD LINE. IF SHALLOWER GRAVEL LAYER PREVENTS PILE FROM BEING VIBRATORY DRIVEN TO REQUIRED DEPTH, CONTACT ENGINEER TO VERIFY IF ACCEPTABLE OR IF HAMMER DRIVING WILL BE REQUIRED.
  - SOLDIER PILES TO BE VIBRATORY DRIVEN TO REFUSAL AT THE ASSUMED GRAVEL LAYER APPROXIMATELY 30 FEET BELOW THE MUD LINE AND THEN HAMMER DRIVEN AN ADDITIONAL 4 FEET MINIMUM. USE DRIVING SHOE AT END OF THE PILES AND AIR BUBBLE CURTAIN FOR PORTION OF DRIVING WITH HAMMER. USE BUBBLE TUBING AS A PREFERRED METHOD TO CREATE A CURTAIN AROUND THE PILE.
  - SEE GEOTECHNICAL REPORT FOR INFORMATION CONCERNING SOILS AT INSTALLATION SITE.



**1**  
S2  
PILE DETAIL  
1" = 1'-0"



**SECTION**

**RIGHT-OF-WAY DISCLAIMER**  
THE RIGHT-OF-WAY AND/OR PROPERTY LINES SHOWN HEREON ARE BASED ON AVAILABLE INFORMATION, NOT ON A SURVEYED LOCATION AND ARE ONLY APPROXIMATE

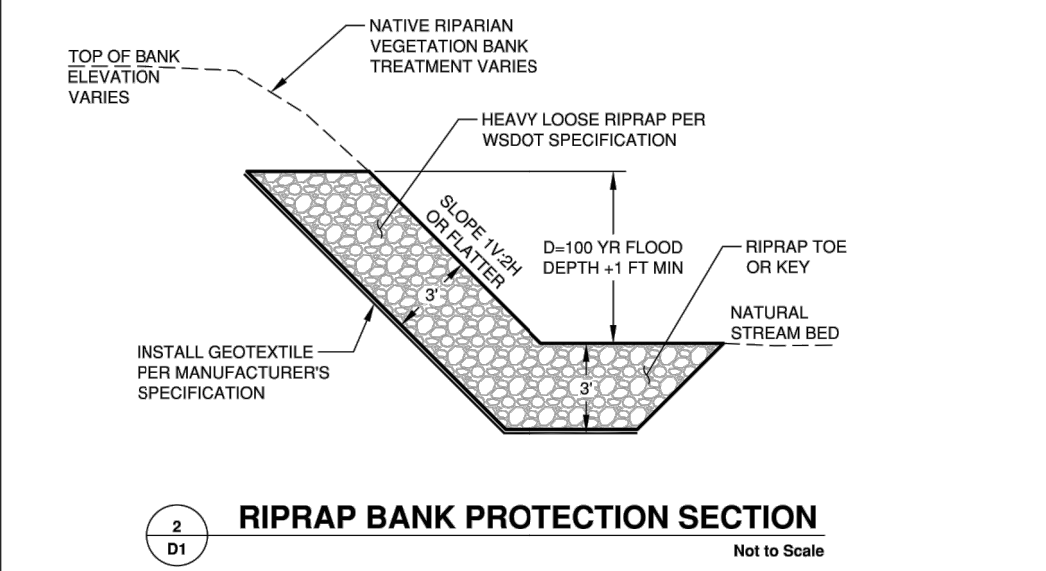
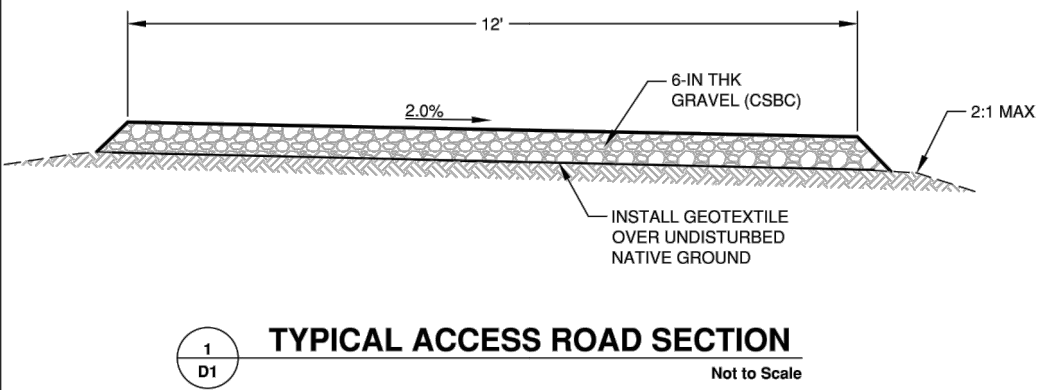
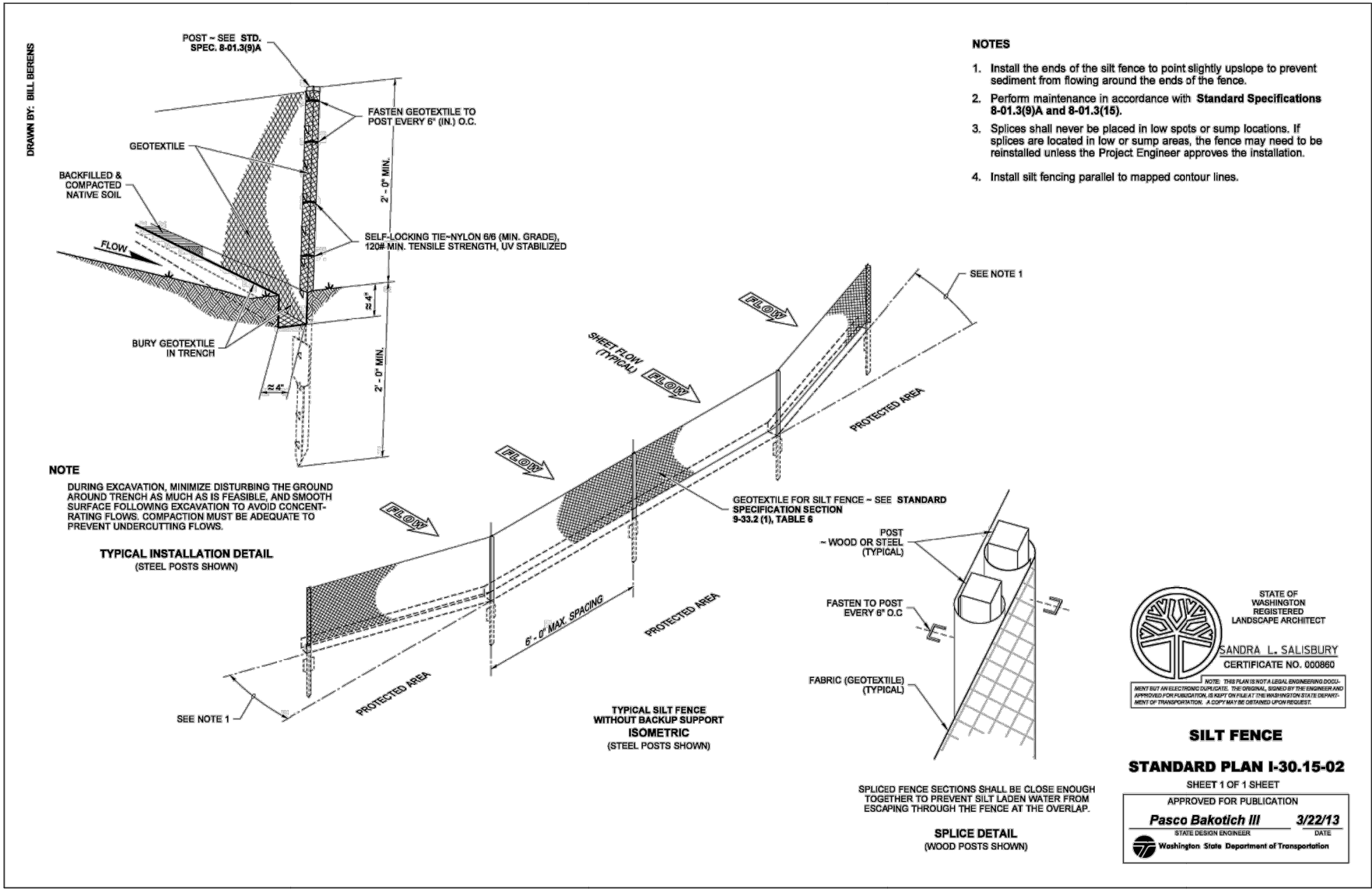
Ecological Land Services  
1157 3rd Ave., Suite 220A  
Longview, WA 98632  
Phone: (360) 578-1371

**PURPOSE:** Safety and access improvements at boat launch  
**DATUM:** NAD83  
**ADJACENT PROPERTY OWNERS:**

**CONCRETE PILE WALLS DETAIL**  
**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:** R.M. 17.6 Access at 5040 Westside Highway  
Castle Rock, WA 98611

**PROPOSED:** Construction of structure to reduce streamflow velocities  
**IN** CowIitz River  
**NEAR:** Castle Rock  
**COUNTY:** CowIitz  
**STATE:** WA  
**SHEET** 5 **OF** 9  
**DATE:** 7/28/20

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**PROPOSED:** Construction of structure to reduce streamflow velocities  
**IN** Cowlitz River  
**NEAR:** Castle Rock  
**COUNTY:** Cowlitz **STATE:** WA  
**SHEET** 6 **OF** 9  
**DATE:** 7/28/20

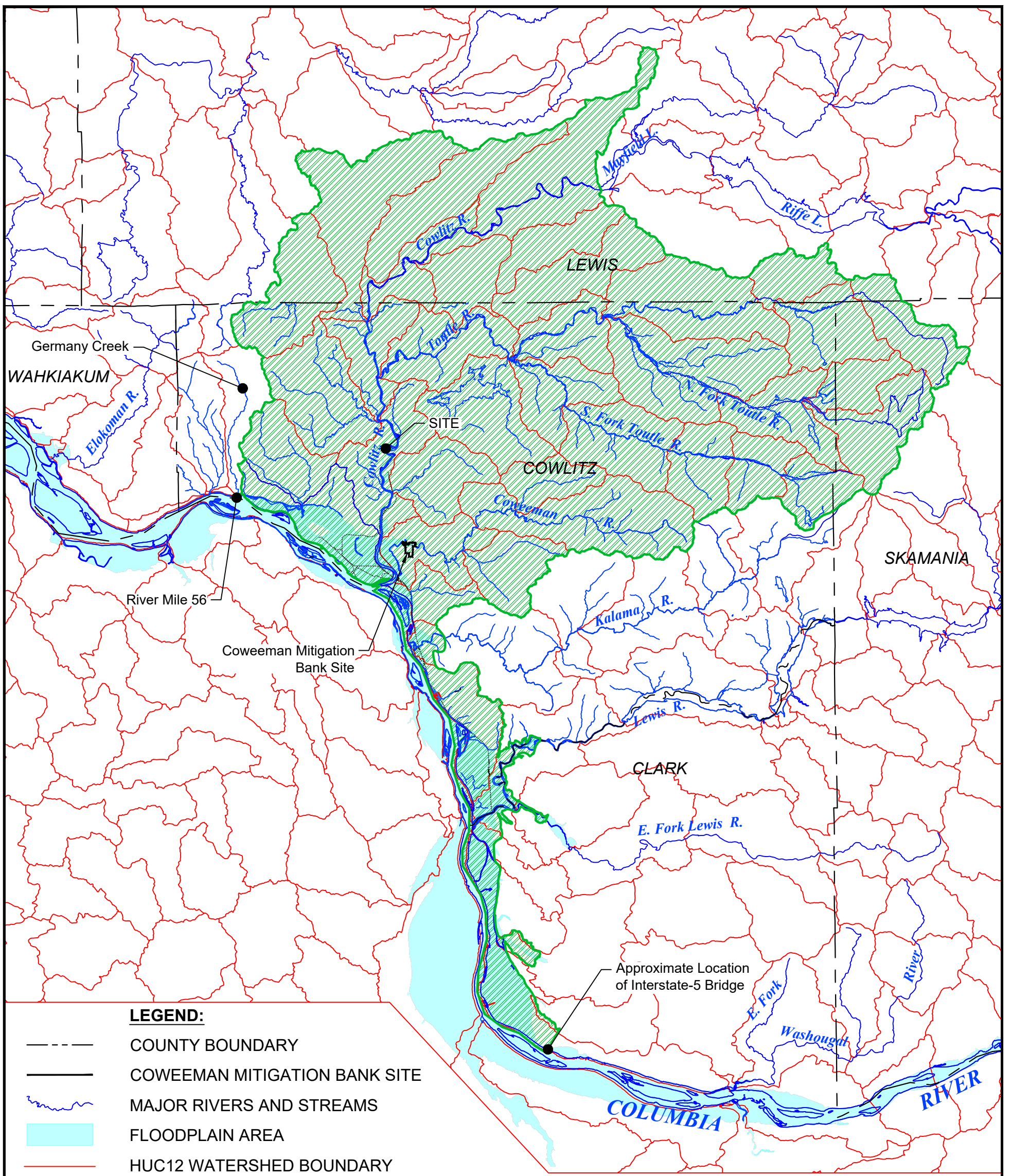
**BOAT LAUNCH CROSS SECTION VIEW**  
**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
 R.M. 17.6 Access at 5040 Westside Highway  
 Castle Rock, WA 98611

**PURPOSE:** Safety and access improvements at boat launch  
**DATUM:** NAD83  
**ADJACENT PROPERTY OWNERS:**

**NOT TO SCALE**  
 1157 3rd Ave., Suite 220A  
 Longview, WA 98632  
 Phone: (360) 578-1371







**LEGEND:**

- COUNTY BOUNDARY
- COWEEMAN MITIGATION BANK SITE
- MAJOR RIVERS AND STREAMS
- FLOODPLAIN AREA
- HUC12 WATERSHED BOUNDARY
- COWEEMAN MITIGATION BANK UNIVERSAL CREDIT SERVICE AREA

**SERVICE AREA LIMITATIONS:**

- COLUMBIA RIVER UPSTREAM LIMIT: INTERSTATE 5 BRIDGE IN VANCOUVER
- COLUMBIA RIVER DOWNSTREAM LIMIT: RIVER MILE 56 NEAR STELLA
- COWLITZ WATERSHED: ALL OF WRIA 26 BELOW MAYFIELD DAM

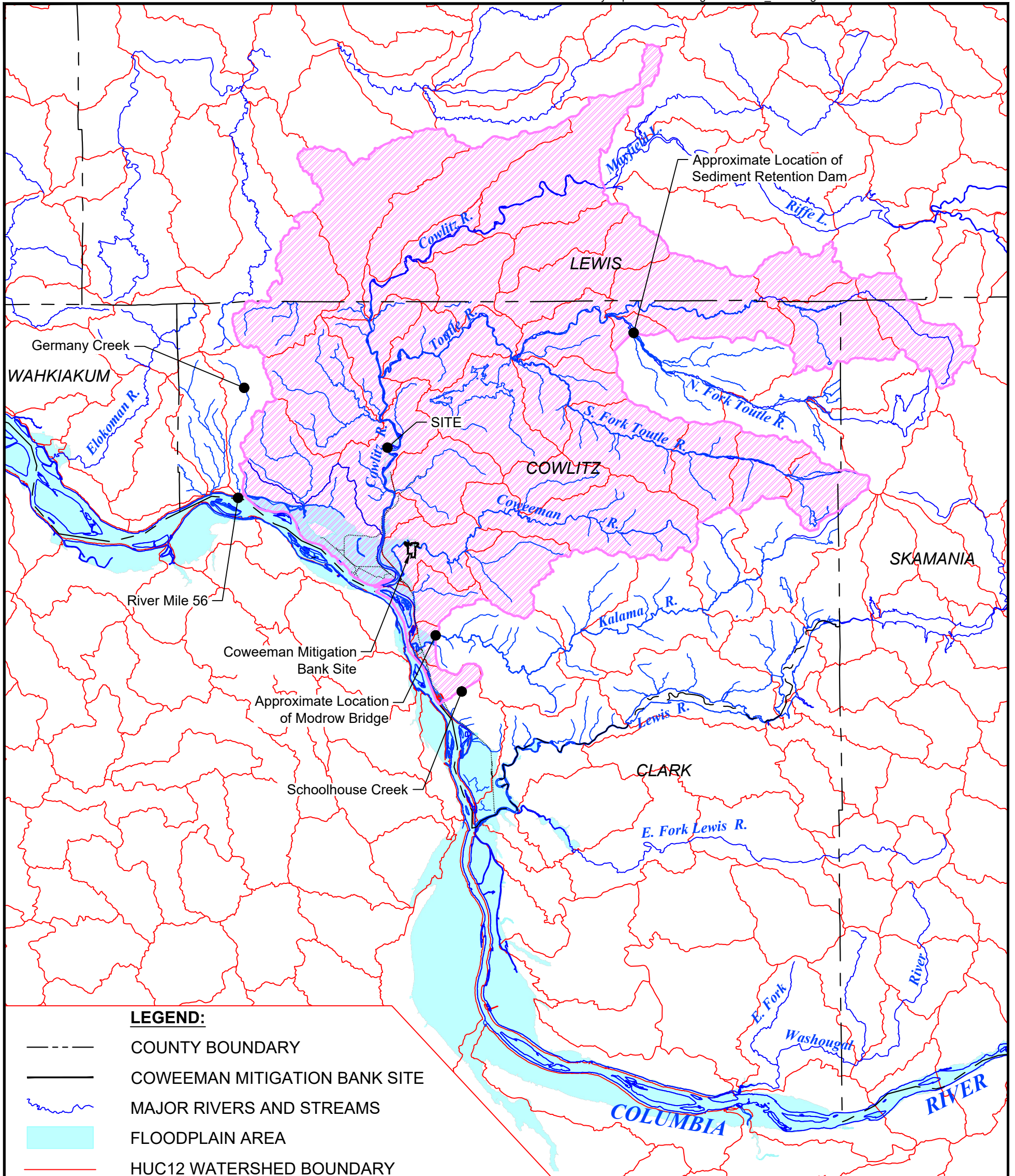
**NOTES:**

1. STATE, COUNTY, RIVERS, AND STREAM BOUNDARIES FROM ECOLOGY WEBSITE:  
<http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm>
2. FLOODPLAIN DATA FROM J. BURKE, UNIVERSITY OF WASHINGTON
3. HUC12 WATERSHED BOUNDARIES FROM USGS WEBSITE:  
<http://www.water.usgs.gov/wsc/cat/17080001.html>
4. BASE MAP PREPARED BY ECOLOGICAL LAND SERVICES, INC., FEBRUARY 2015.



**ECOLOGICAL LAND SERVICES, INC.**  
 1157 3rd Avenue, Suite 220  
 Longview, WA 98632

<p><b>PURPOSE:</b> Safety and access improvements at boat launch</p> <p><b>DATUM:</b> NAD83</p> <p><b>ADJACENT PROPERTY OWNERS:</b></p>	<p>Coweeman Bank Universal Credit Service Area</p> <p><b>APPLICANT:</b> City of Castle Rock</p> <p><b>PROJECT NAME:</b> C.R. Boat Launch Safety Improvements</p> <p><b>REFERENCE #:</b> Not Yet Assigned</p> <p><b>SITE LOCATION ADDRESS:</b>        R.M. 17.6 Access at 5040 Westside Highway        Castle Rock, WA 98611</p>	<p><b>PROPOSED:</b> Construction of structure to reduce streamflow velocities in Cowlitz River</p> <p><b>NEAR:</b> Castle Rock</p> <p><b>COUNTY:</b> Cowlitz <b>STATE:</b> WA</p> <p><b>SHEET 7 OF 9</b></p> <p><b>DATE:</b> 7/28/20</p>
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**LEGEND:**

- COUNTY BOUNDARY
- COWEEMAN MITIGATION BANK SITE
- MAJOR RIVERS AND STREAMS
- FLOODPLAIN AREA
- HUC12 WATERSHED BOUNDARY
- COWEEMAN MITIGATION BANK DSAY SERVICE AREA\*



**SERVICE AREA LIMITATIONS:**

- COLUMBIA RIVER UPSTREAM LIMIT: BETWEEN RIVER MILE 77 & 78 AT SHOOLHOUSE CREEK
- COLUMBIA RIVER DOWNSTREAM LIMIT: RIVER MILE 56 NEAR STELLA
- COWLITZ WATERSHED: ALL OF WRIA 26 BELOW MAYFIELD DAM EXCEPT FOR ABOVE SEDIMENT RETENTION STRUCTURE (SRS) ON THE NORTH FORK OF THE TOUTLE RIVER



**NOTES:**

1. STATE, COUNTY, RIVERS, AND STREAM BOUNDARIES FROM ECOLOGY WEBSITE: <http://www.wsdot.wa.gov/mapsdata/geodatacatalog/default.htm>
2. FLOODPLAIN DATA FROM J. BURKE, UNIVERSITY OF WASHINGTON.
3. HUC12 WATERSHED BOUNDARIES FROM USGS WEBSITE: <http://www.water.usgs.gov/wsc/cat/17080001.html>.
4. BASE MAP PREPARED BY ECOLOGICAL LAND SERVICES, INC., FEBRUARY 2015.

\*For details on DSAY use for specific fish species within the DSAY Service Area Boundary, please refer to the service area limitations and boundaries for certain species contained in section E.3 of Appendix E.



1157 3rd Ave., Suite 220A  
Longview, WA 98632  
Phone: (360) 578-1371

**PURPOSE:** Safety and access improvements at boat launch

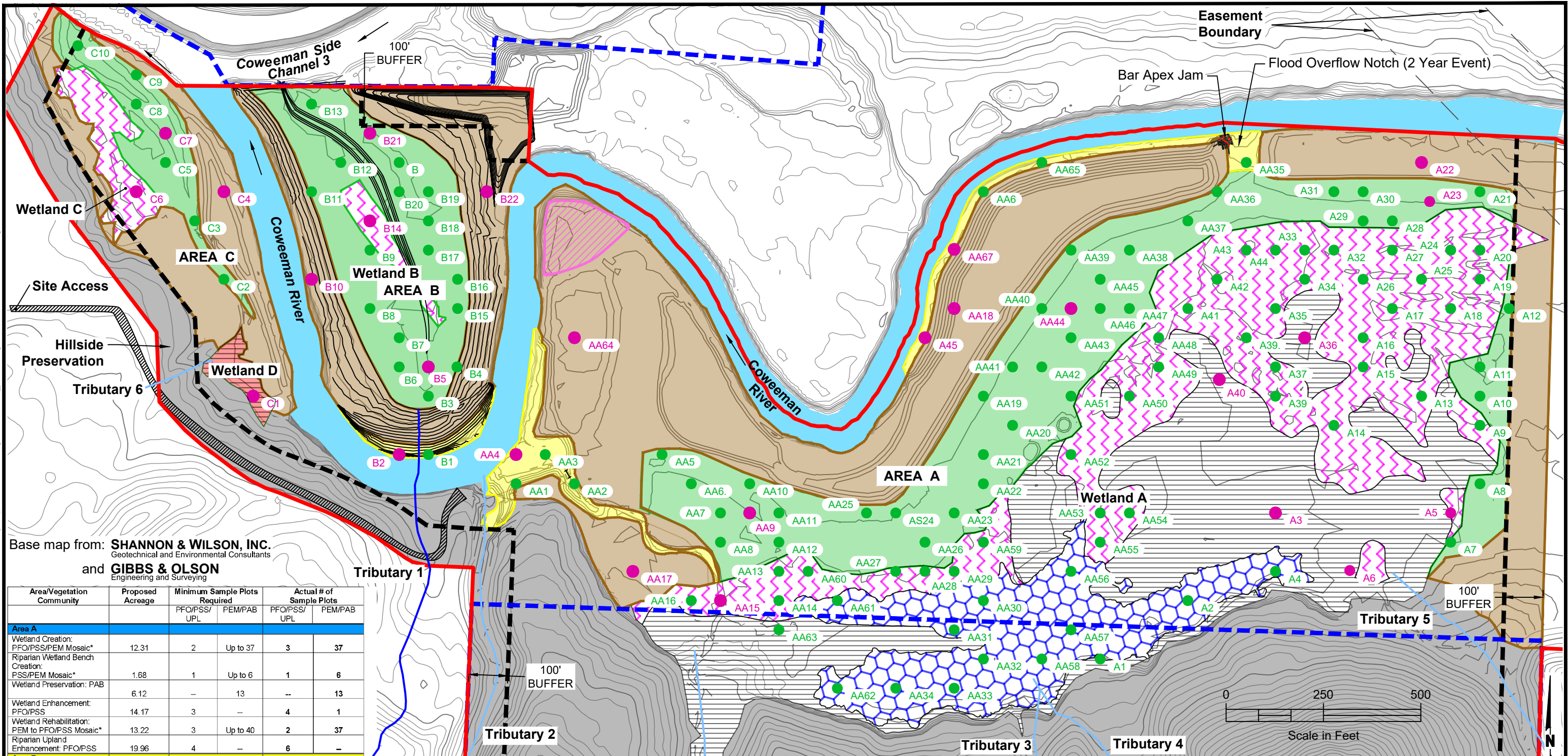
**DATUM:** NAD83  
**ADJACENT PROPERTY OWNERS:**

**COWEEMAN BANK DSAY CREDIT SERVICE AREA**  
**APPLICANT:** City of Castle Rock  
**PROJECT NAME:** C.R. Boat Launch Safety Improvements  
**REFERENCE #:** Not Yet Assigned  
**SITE LOCATION ADDRESS:**  
R.M. 17.6 Access at 5040 Westside Highway  
Castle Rock, WA 98611

**PROPOSED:** Construction of structure to reduce streamflow velocities in Cowlitz River  
**NEAR:** Castle Rock  
**COUNTY:** Cowlitz **STATE:** WA  
**SHEET 8 OF 9**  
**DATE:** 7/28/20



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Base map from: **SHANNON & WILSON, INC.**  
Geotechnical and Environmental Consultants  
and **GIBBS & OLSON**  
Engineering and Surveying

Area/Vegetation Community	Proposed Acreage	Minimum Sample Plots Required		Actual # of Sample Plots	
		PFO/PSS/UPL	PEM/PAB	PFO/PSS/UPL	PEM/PAB
<b>Area A</b>					
Wetland Creation: PFO/PSS/PEM Mosaic*	12.31	2	Up to 37	3	37
Riparian Wetland Bench Creation: PSS/PEM Mosaic*	1.68	1	Up to 6	1	6
Wetland Preservation: PAB	6.12	-	13	-	13
Wetland Enhancement: PFO/PSS	14.17	3	-	4	1
Wetland Rehabilitation: PEM to PFO/PSS Mosaic*	13.22	3	Up to 40	2	37
Riparian Upland Enhancement: PFO/PSS	19.96	4	-	6	-
<b>Area B</b>					
Wetland Creation: PFO/PSS/PEM Mosaic*	5.28	1	Up to 16	2	16
Riparian Wetland Bench Creation: PSS/PEM Mosaic*	0.32	1	Up to 1	1	1
Wetland Rehabilitation: PEM to PFO/PSS Mosaic*	0.44	1	-	1	-
Riparian Upland Enhancement: PFO/PSS	5.34	1	-	2	-
<b>Area C</b>					
Wetland Creation: PFO/PSS/PEM Mosaic*	1.74	1	Up to 6	1	6
Wetland D Enhancement: PSS/PEM to PSS/PFO	0.36	1	-	1	-
Wetland C Rehabilitation: PEM to PSS/PFO	1.02	1	-	1	-
Riparian Upland Enhancement: PFO/PSS	3.59	1	-	1	-
<b>Total Plots</b>		21	Up to 119	26	117

\* In mosaic habitats, both woody and emergent vegetation will be intermingled in irregular patterns. Enough potential plot coordinates will be generated to meet the minimum sampling requirements for both woody (PFO/PSS) and emergent vegetation (PEM). Each individual plot will be assigned to a vegetation stratum (PFO, PSS, PEM) at the time of monitoring based on as-built plantings. If both emergent and woody vegetation are present in the vicinity of the same plot center then a PEM plot may be nested within the larger woody vegetation sampling plot. Some PEM plots will transition to woody vegetation-dominated over time.  
\*One plot will be located in non-creditable buffer area.

**LEGEND**

- Existing Contour 1'
- Existing Contour 5'
- Bank Site Boundary
- GAS
- Underground Gas
- Fiber Optic
- Easement
- Existing Wetland
- Stream
- 100' Bank Buffer
- Area to Remain Undisturbed
- Riparian Upland Enhancement
- Wetland Creation (PFO/PSS/PEM Mosaic)
- Riparian Wetland Creation (PSS/PEM)
- Existing Wetland/Wetland Enhancement Area
- Hillside Preservation
- Existing PAB Preservation
- Existing PFO/PSS/PEM Enhancement
- Existing PEM Rehabilitation
- City of Kelso Jurisdictional Boundary
- PEM/AB Monitoring Plot
- PFO/PSS/UPL Monitoring Plot

<p><b>PURPOSE:</b> Safety and access improvements at boat launch</p> <p><b>DATUM:</b> NAD83</p> <p><b>ADJACENT PROPERTY OWNERS:</b></p>	<p><b>COWEEMAN MITIGATION BANK SITE DESIGN</b></p> <p><b>APPLICANT:</b> City of Castle Rock</p> <p><b>PROJECT NAME:</b> C.R. Boat Launch Safety Improvements</p> <p><b>REFERENCE #:</b> Not Yet Assigned</p> <p><b>SITE LOCATION ADDRESS:</b> R.M. 17.6 Access at 5040 Westside Highway Castle Rock, WA 98611</p>	<p><b>PROPOSED:</b> Construction of structure to reduce streamflow velocities</p> <p><b>IN</b> Cowlitz River</p> <p><b>NEAR:</b> Castle Rock</p> <p><b>COUNTY:</b> Cowlitz <b>STATE:</b> WA</p> <p><b>SHEET 9 OF 9</b></p> <p><b>DATE:</b> 7/28/20</p>
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**WASHINGTON STATE**  
**Joint Aquatic Resources Permit**  
**Application (JARPA)** [\[help\]](#)



AGENCY USE ONLY

Date received: \_\_\_\_\_

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

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

\_\_\_\_\_

\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

Project Name: Al Helenberg Memorial Boat Launch Safety Improvements \_\_\_\_\_



Location Name (if applicable): \_\_\_\_\_

**Attachment A:**  
**For additional property owner(s)** [\[help\]](#)

Use this attachment only if you have more than one property owner. Complete one attachment for each additional property owner impacted by the project.

Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

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

<b>1. Name (Last, First, Middle) and Organization (if applicable)</b>			
Castle Rock School District #401			
<b>2. Mailing Address (Street or PO Box)</b>			
600 Huntington Ave. S.			
<b>3. City, State, Zip</b>			
Castle Rock, WA 98611			
<b>4. Phone (1)</b>	<b>5. Phone (2)</b>	<b>6. Fax</b>	<b>7. E-mail</b>
360-501-2940		360-501-3140	rgreene@crschools.org
Address or tax parcel number of property you own:			
308800100			
Signature of Property Owner			
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.			
 _____ Printed Name		 _____ Signature	

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-16-012 rev. 10/2016



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



US Army Corps  
of Engineers®  
Seattle District

AGENCY USE ONLY

Date received: \_\_\_\_\_

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

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

\_\_\_\_\_

TO BE COMPLETED BY APPLICANT [\[help\]](#)

**Project Name:** Al Helenberg Memorial  
Boat Launch Safety Improvements

**Location Name (if applicable):**

**Attachment C:**  
**Contact information for adjoining**  
**property owners. [\[help\]](#)**

Use this attachment only if you have more than four adjoining property owners.

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

**1. Contact information for all adjoining property owners. [\[help\]](#)**

Name	Mailing Address	Tax Parcel # (if known)
MOORE RICHARD G/JOAN M	180 MADDUX RD, CASTLE ROCK	309110101
EDGEELL JEFFERY D/TRACY L	205 MOSIER RD, CASTLE ROCK	309200100
SHULKE SCOTT L/STEPHANIE A TRUST	217 MOSIER RD, CASTLE ROCK	309210100
CAULFIELD DONALD J	221 MOSIER RD, CASTLE ROCK	309220100

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-16-014 rev. 10/2016



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



US Army Corps  
of Engineers  
Seattle District

AGENCY USE ONLY

Date received: \_\_\_\_\_;  Town  
 Application Fee Received;  Fee N/A  
 New Application;  Renewal Application  
Type/Prefix #: \_\_\_\_\_; NaturE Use Code: \_\_\_\_\_  
LM Initials & BP#: \_\_\_\_\_  
RE Assets Finance BP#: \_\_\_\_\_  
New Application Number: \_\_\_\_\_  
Trust(s): \_\_\_\_\_; County: \_\_\_\_\_  
AQR Plate #(s): \_\_\_\_\_  
Gov Lot #(s): \_\_\_\_\_  
Tax Parcel #(s): \_\_\_\_\_

**Attachment E:**  
**Aquatic Use Authorization on**  
**Department of Natural Resources**  
**(DNR)-managed aquatic lands [\[help\]](#)**

Complete this attachment and submit it with the completed JARPA form only if you are applying for an Aquatic Use Authorization with DNR. Call (360) 902-1100 or visit <http://www.dnr.wa.gov/programs-and-services/aquatics/leasing-and-land-transactions> for more information.

- DNR recommends you discuss your proposal with a DNR land manager before applying for regulatory permits. Contact your regional land manager for more information on potential permit and survey requirements. You can find your regional land manager by calling (360) 902-1100 or going to <http://www.dnr.wa.gov/programs-and-services/aquatics/aquatic-districts-and-land-managers-map>. [\[help\]](#)
- The applicant may not begin work on DNR-managed aquatic lands until DNR grants an Aquatic Use Authorization.
- Include a \$25 non-refundable application processing fee, payable to the "Washington Department of Natural Resources." (Contact your Land Manager to determine if and when you are required to pay this fee.) [\[help\]](#)

DNR may reject the application at any time prior to issuing the applicant an Aquatic Use Authorization. [\[help\]](#)

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

<b>1. Applicant Name</b> (Last, First, Middle)	
Vorse, Dave/City of Castle Rock Public Works	
<b>2. Project Name</b> (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) <a href="#">[help]</a>	
Al Helenberg Memorial Boat Launch Safety Improvements	
<b>3. Phone Number and Email</b>	
(360) 274-7478, crpwd@ci.castle-rock.wa.us	
<b>4. Which of the following applies to Applicant?</b> Check one and, if applicable, attach the written authority – bylaws, power of attorney, etc. <a href="#">[help]</a>	
<input type="checkbox"/> Corporation <input type="checkbox"/> Limited Partnership <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Liability Company  Home State of Registration: _____	<input type="checkbox"/> Individual <input type="checkbox"/> Marital Community (Identify spouse): _____ <input checked="" type="checkbox"/> Government Agency <input type="checkbox"/> Other (Please Explain): _____

<b>5.</b> Washington UBI (Unified Business Identifier) number, if applicable: <a href="#">[help]</a>
<b>6.</b> Are you aware of any existing or previously expired Aquatic Use Authorizations at the project location?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't know If Yes, Authorization number(s): _____
<b>7.</b> Do you intend to sublease the property to someone else?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, contact your Land Manager to discuss subleasing.
<b>8.</b> If fill material was used previously on DNR-managed aquatic lands, describe below the type of fill material and the purpose for using it. <a href="#">[help]</a>
N/A

**To be completed by DNR and a copy returned to the applicant.**

Signature for projects on DNR-managed aquatic lands:

Applicant must obtain the signature of DNR Aquatics District Manager OR Assistant Division Manager if the project is located on DNR-managed aquatic lands.

I, a designated representative of the Dept. of Natural Resources, am aware that the project is being proposed on Dept. of Natural Resources-managed aquatic lands and agree that the applicant or his/her representative may pursue the necessary regulatory permits. My signature does not authorize the use of DNR-managed aquatic lands for this project.

<b>Printed Name</b>	<b>Signature</b>	<b>Date</b>
Dept. of Natural Resources District Manager or Assistant Division Manager	Dept. of Natural Resources District Manager or Assistant Division Manager	

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 ORIA-16-016 rev. 10/2016