

LAND USE PRE-APPLICATION CONFERENCE

Thursday, June 20, 2019

City Hall
22500 Salamo Road

Bolton Conference Room

10:00 am **Proposed seismic retrofit and widening of the Abernathy Bridge along with the widening of northbound and southbound lanes of I-205 for West Linn city limits**

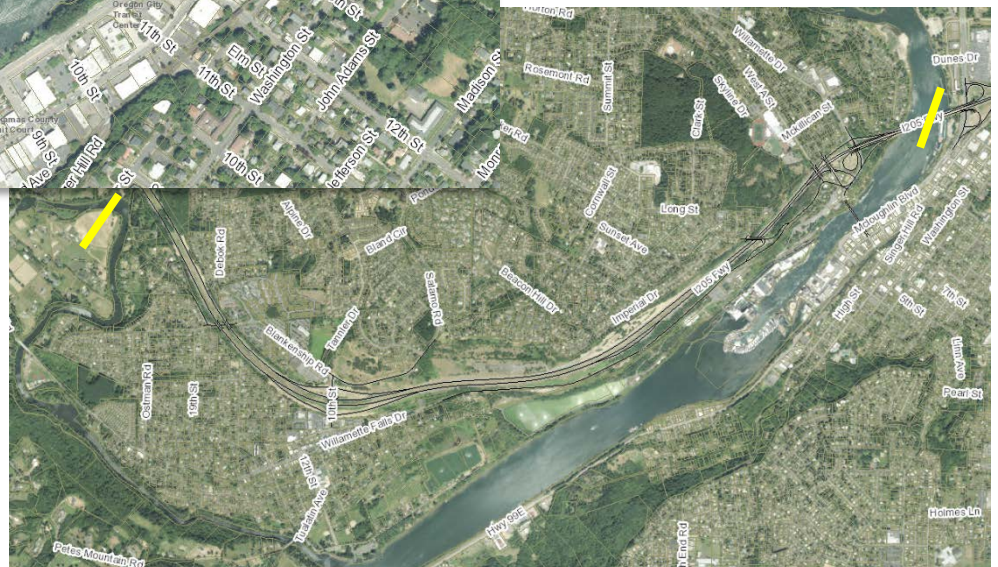
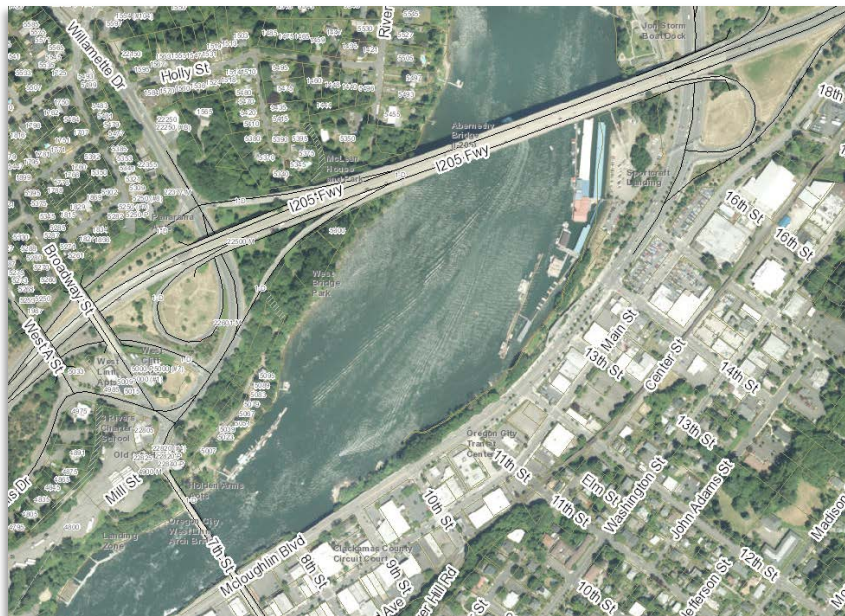
Applicant: **Tom Hamstra – ODOT**
 Brian Bauman HDR

Subject Property Address: **I-205 Abernathy Bridge between OR 43 and OR 99 interchanges and I-205 widening within city limits**

Neighborhood Assn: **Bolton NA**

Planner: **John Boyd**

Project #: PA-19-15



JUN 04 2019

PRE-APPLICATION CONFERENCE

 PLANNING &
CITY OF WEST LINN

THIS SECTION FOR STAFF COMPLETION

CONFERENCE DATE: 6/20/19	TIME: 10 am	PROJECT #: PA-19-15
STAFF CONTACT: John Boyd	FEE: \$1,000	

Pre-application conferences occur on the first and third Thursdays of each month. In order to be scheduled for a conference, this form including property owner's signature, the pre-application fee, and accompanying materials must be submitted at least **15** days in advance of the conference date. Twenty-four hour notice is required to reschedule.

Address of Subject Property (or map/tax lot): **I-205 Widening and Seismic Improvements: Abernethy Bridge to Woodbine Road**

Brief Description of Proposal: This Project would widen I-205 to add a third general purpose travel lane in each direction and conduct a Phase II seismic retrofit of the Abernethy Bridge. To conform to the new I-205 widths, the Project will modify the OR 43 Interchange ramps. The Project will replace the bridges over West A Street, Sunset Avenue, and Woodbine Road, and seismically upgrade bridges over 10th Street and Blankenship Road. The Broadway Street overcrossing would be permanently removed.

Proposed structural upgrades to Abernethy Bridge include replacement of piers, adding columns, increasing foundation sizes, enlarging columns and beams, and other substructure improvements. A drill rig will be used to strengthen subsurface soils with deep soil mixing and jet grouting. A temporary work bridge will be installed to facilitate construction activities. The project includes work in the floodplain. Specific elements of the project include:

Bridge Widening. The Abernethy Bridge will be widened to include an additional through-lane and a wider outside shoulder in both the northbound and southbound directions resulting in an additional 16 feet of roadway width in both directions. The main spans of the Abernethy Bridge will be widened by sliding the existing bridge girders toward the outside of the bridge and constructing the additional lane width between the northbound and southbound lanes. This widening will be supported by larger in water support piers to be located upstream and downstream of the current piers. Widening of the bridge lanes also requires modification to the approach spans and ramps on either end of the bridge (Figures 5-3B and 5-3C).

Approach Span Widening. Widening of the approach spans will be achieved through the addition of multiple steel girder lines to provide the support for a deck extension. Substructure and foundation retrofits are required at Piers 7 through 14 to accommodate the widening (Figures 5-3B and 5-3C). At Piers 7 through 10, internal posttensioning is required to strengthen and extend the existing cross beams. Columns at Piers 7 and 8 require strengthening, while Piers 9 and 10 require column and foundation widening to accommodate the crossbeam widening. At Piers 11 through 14, the crossbeam is extended on both sides of the bridge; the extended length on each side is supported by one new column and foundation.

Ramp Widening. The I-205 southbound exit ramp to OR 43 (Figure 5-3C) will be widened to provide standard shoulders on the ramp structure and to shift the exit ramp over by the width of the additional lane and shoulder being added to the mainline portion of the bridge. The widening will be accomplished on the outside edge of the structure. As the ramp departs the mainline bridge, the widening will be 16 feet wide and will taper back as the ramp geometry allows to reduce the amount of new deck area. The substructure is supported by single column piers supported by driven pile foundations.

Temporary Bridge. For the work within the Willamette River, a temporary work bridge will be constructed from both banks from both upstream and downstream of the existing piers and will remain in place for up to 4 years (Figures 5-7 to 5-9). The temporary work bridge is required to support the drilled shaft installation, pier cap expansion, and removal of the existing piers. Access to the temporary work bridges will be from both barges and overland. Land access to the work bridge on the east bank will occur from areas immediately adjacent to the existing bridge. A contractor access road from OR 43 immediately adjacent to the bridge will be used to access to the work bridge on the west bank.

Applicant's Name: **Thomas Hamstra, Oregon Department of Transportation**

Mailing Address: **123 NW Flanders Street, Portland, OR 97209**

Phone No: **(503) 731.3015**

Email Address: **Thomas.HAMSTRA@odot.state.or.us**

Please attach additional materials relating to your proposal including a site plan on paper up to 11 x 17 inches in size depicting the following items:

- North arrow
- Scale
- Property dimensions
- Streets abutting the property
- Conceptual layout, design and/or building elevations
- Easements (access, utility, all others)
- Access to and from the site, if applicable
- Location of existing trees, highly recommend a tree survey
- Location of creeks and/or wetlands, highly recommend a wetland delineation
- Location of existing utilities (water, sewer, etc.)

Please list any questions or issues that you may have for city staff regarding your proposal:

What sections of City Code are applicable to the proposed actions within ODOT ROW?

What is the timeline for processing an application?

By my signature below, I grant city staff right of entry onto the subject property in order to prepare for the pre-application conference.

Property owner's signature

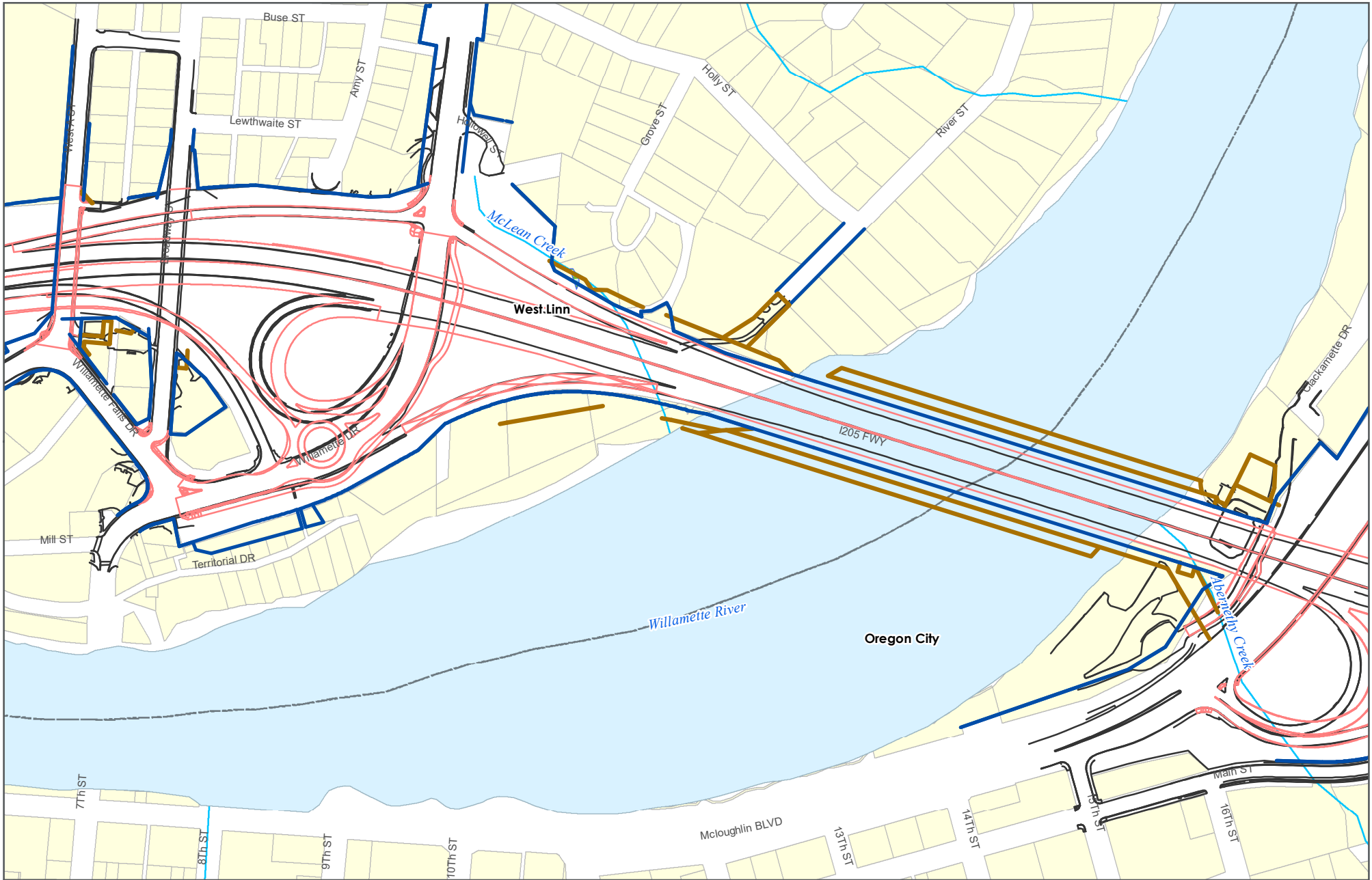
Carol Sneed

Date

6/4/19

for Thomas Hamstra/ODOT

Property owner's printed name and mailing address
(if different from above)



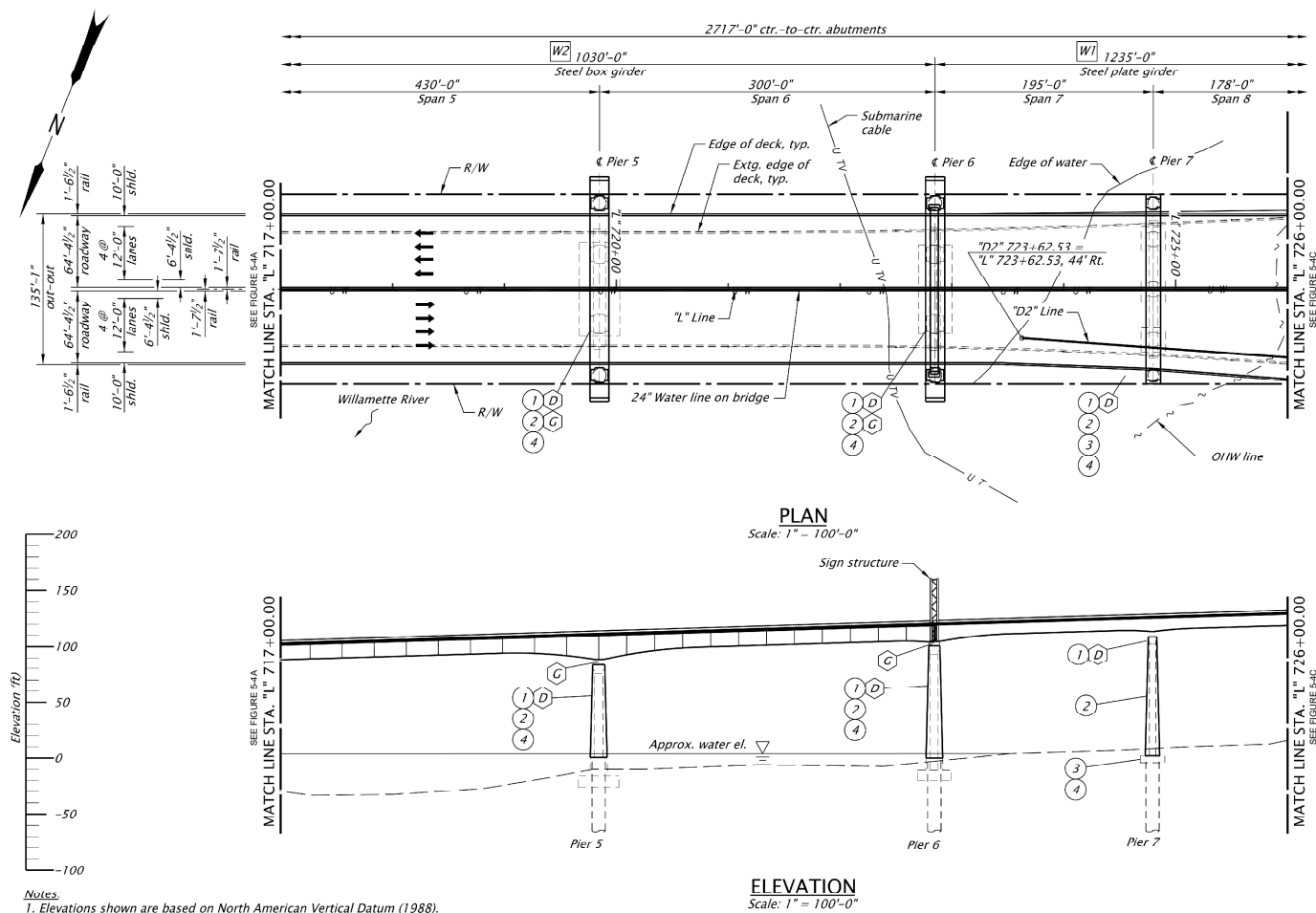
- Existing ROW
- Proposed Easement
- Existing Roadway Design
- Proposed Roadway Design
- Wetland
- Taxlot
- City Boundary



DATA SOURCE: METRO 2019, HDR 2019

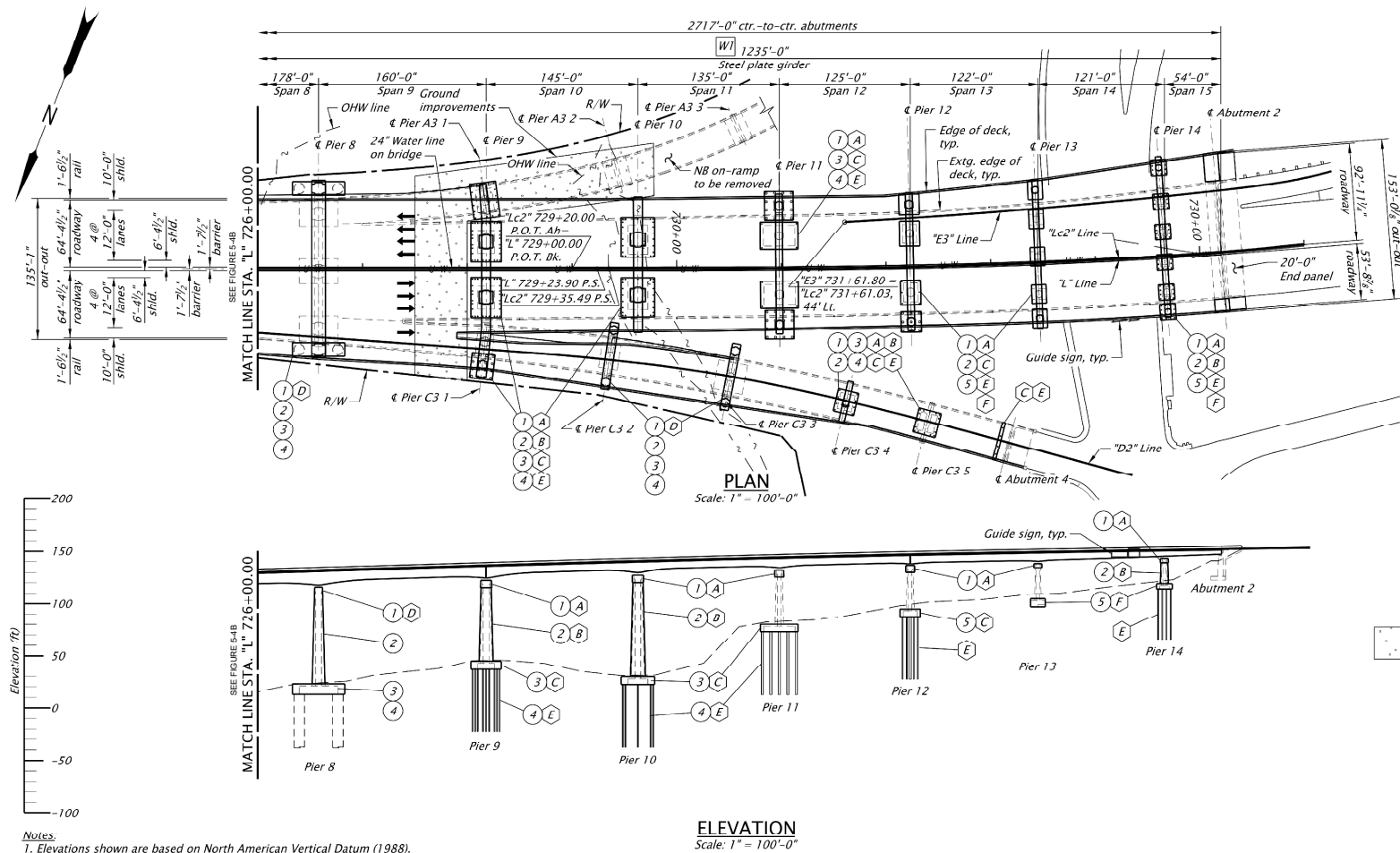


I-205 ABERNETHY LAND USE APPLICATION WEST LINN



**I-5 ABERNETHY
WIDENING AND SEISMIC RETROFIT**

FIGURE 5-3B



SEISMIC DEFICIENCY

- 1 Crossbeam flexural/shear strength (LL)
- 2 Column flexural/shear strength (LL)
- 3 Lack of top mat pile cap reinforcing (LL)
- 4 Insufficient pile anchorage (LL)
- 5 Spread footing overturning/strength (LL)

SEISMIC RETROFIT

- A Crossbeam enlargement
- B Column enlargement
- C Pile cap enlargement
- D Substructure replacement
- E Micropiles
- F Spread footing enlargement
- G Bearing replacement
- H Diaphragm replacement
- J Large diameter drilled shafts

WIDENING

- W1 Steel girder widening
- W2 Cantilever widening

LEGEND:

- Ground improvements

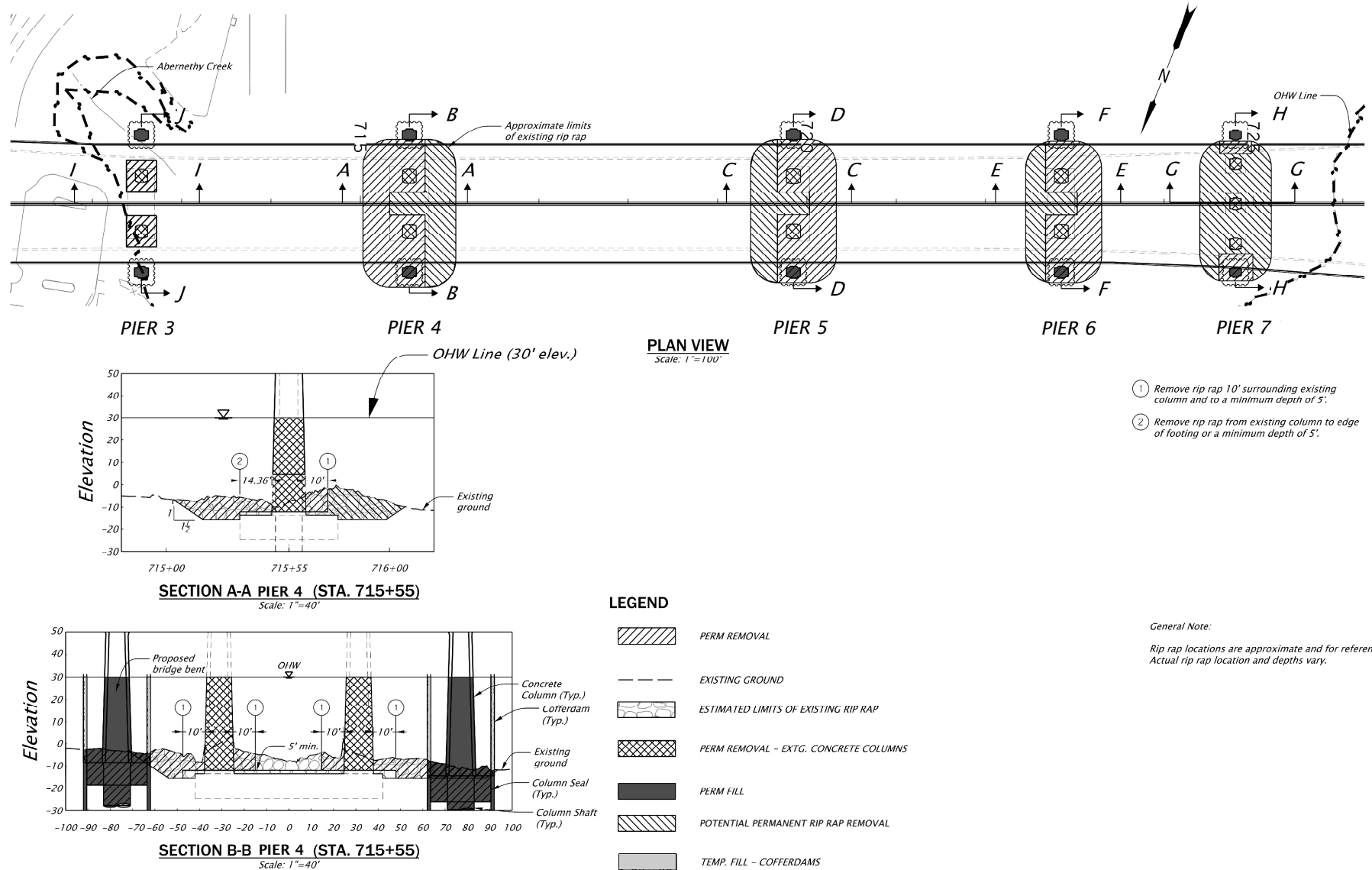


DATA SOURCE: HDR 2019

PATH: C:\PROJECTS\STAGING_WORKFROMHOME\I205\PA\MAP_DOCS\PA\F5 IMPACTS_SHEETS_3C.MXD - USER: JBEARD - DATE: 4/16/2019

I-205 ABERNETHY WIDENING AND SEISMIC RETROFIT

FIGURE 5-3C

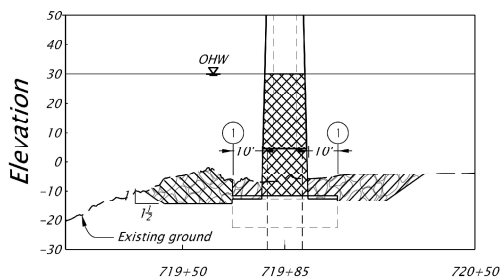


DATA SOURCE: HDR 2019

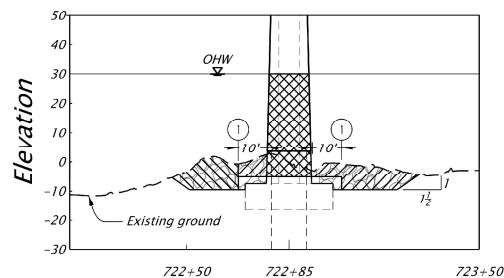
PATH: C:\PROJECTS\STAGING_WORKFROMHOME\I205\PA\MAP_DOCS\PA\F5 IMPACTS_SHEET_5_4.MXD - USER: JBEARD - DATE: 4/16/2019

I-205 ABERNETHY PERMANENT AND TEMPORARY IMPACTS

FIGURE 5-4

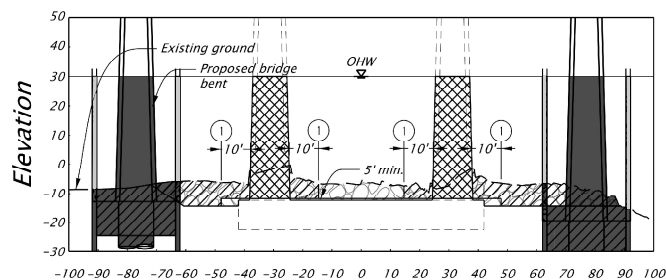


SECTION C-C PIER 5 (STA. 719+85)
Scale: 1"=40'

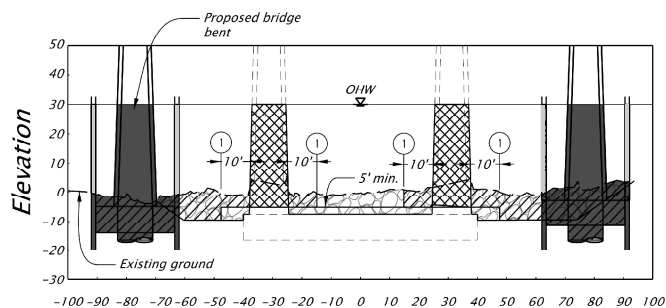


SECTION E-E PIER 6 (STA. 722+85)
Scale: 1"=40'

① Remove rip rap 10' surrounding existing column and to a minimum depth of 5'



SECTION D-D PIER 5 (STA. 719+85)
Scale: 1"=40'



SECTION F-F PIER 6 (STA. 722+85)
Scale: 1"=40'

General Note:

Rip rap locations are approximate and for reference only. Actual rip rap location and depths vary.

LEGEND

	PERM REMOVAL
	EXISTING GROUND
	ESTIMATED LIMITS OF EXISTING RIP RAP
	PERM REMOVAL
	PERM FILL
	TEMP. FILL - COFFERDAMS
	POTENTIAL PERMANENT RIP RAP REMOVAL

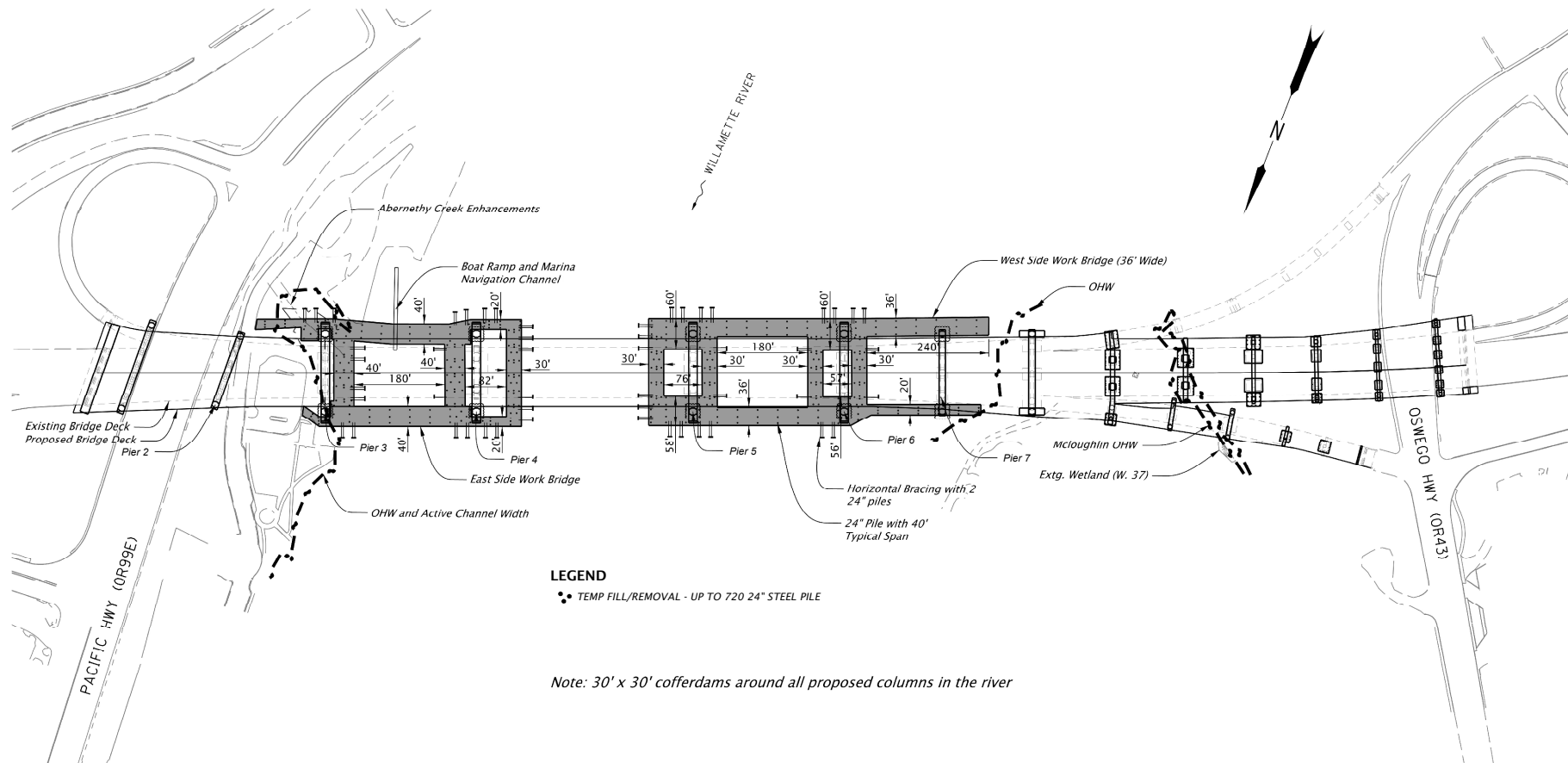


DATA SOURCE: HDR 2019

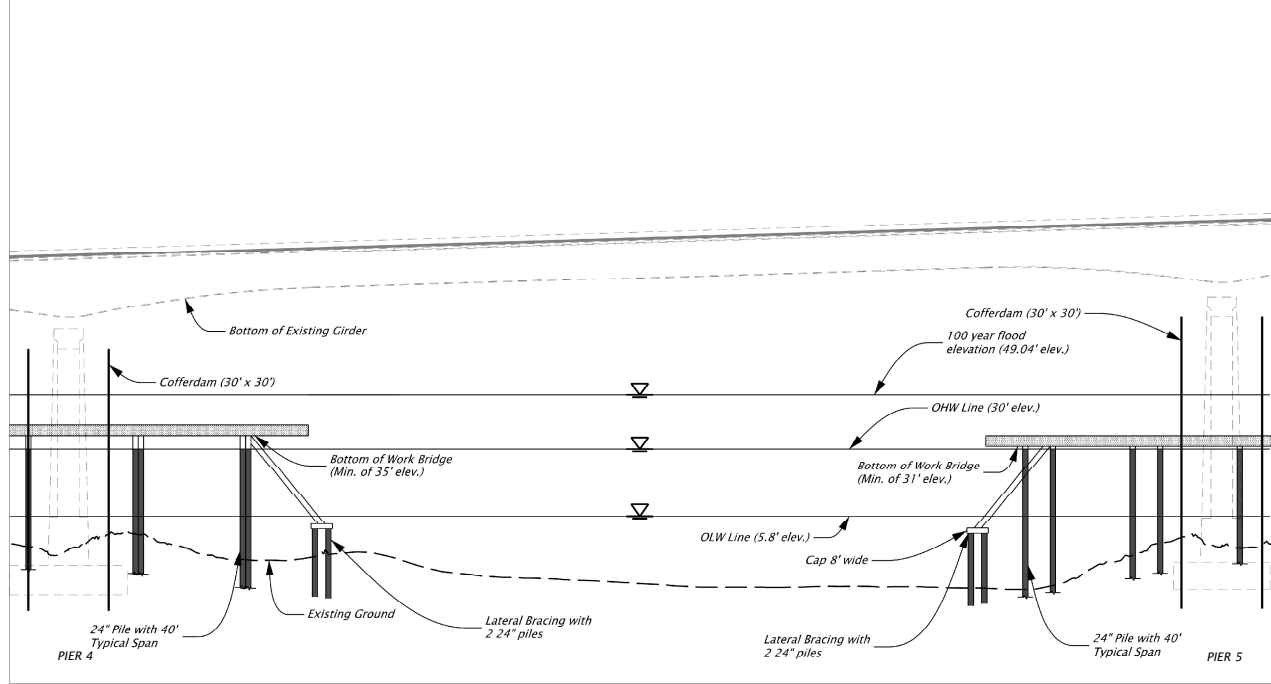
PATH: C:\PROJECTS\STAGING_WORK\FROMHOME\I205\JPA\IMPACTS_SHEET_5.MXD - USER: JBEARD - DATE: 4/16/2019

**I-205 ABERNETHY
PERMANENT AND TEMPORARY IMPACTS**

FIGURE 5-5

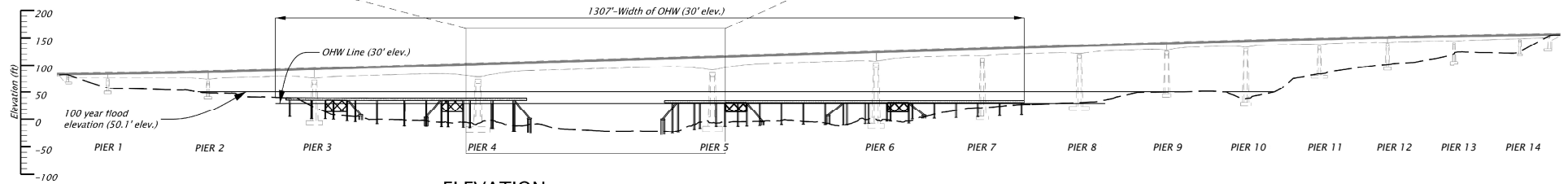


**I-205 ABERNETHY
TEMPORARY WORK BRIDGE**
FIGURE 5-7



INSET ELEVATION AT BENTS 4 AND 5

Scale: 1" = 50'-0"



ELEVATION
Scale: 1" = 200'-0"

LEGEND

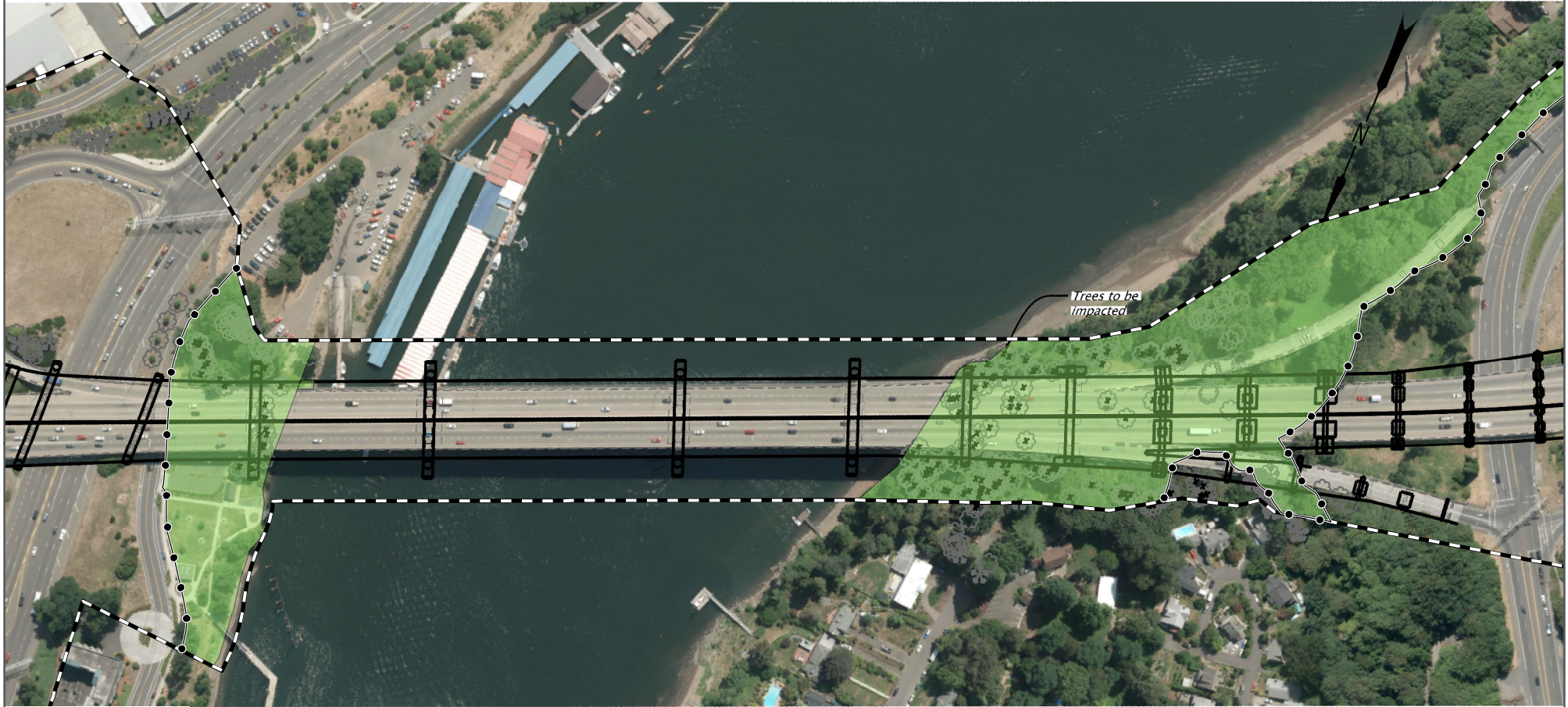
TEMP FILL/REMOVAL

**I-205 ABERNETHY
TEMPORARY WORK BRIDGE**

FIGURE 5-8



DATA SOURCE: HDR 2019



LEGEND

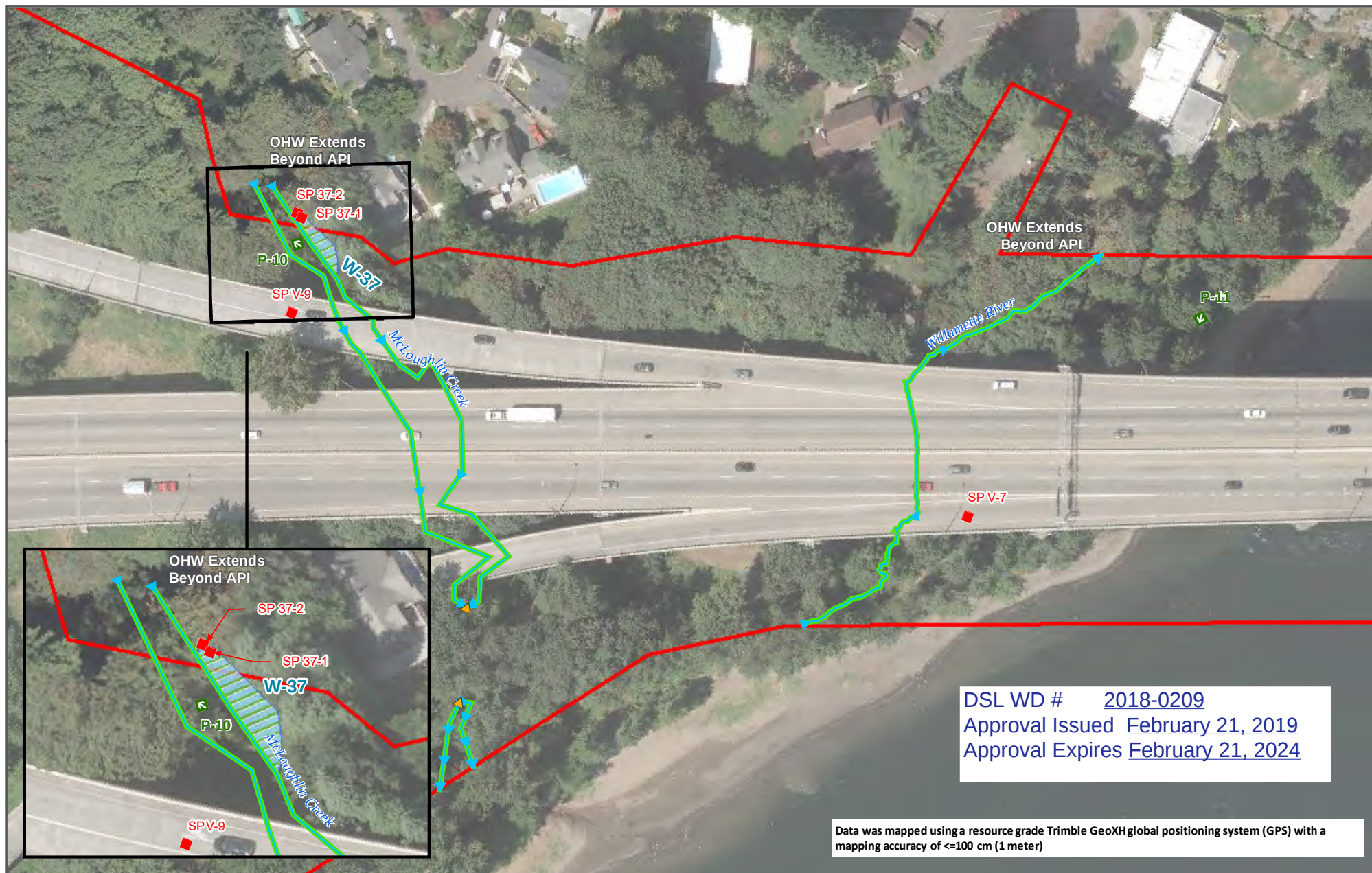
-  Tree Removal
-  Riparian Line
-  Project Area
-  Riparian Area



DATA SOURCE: HDR 2019

PATH: C:\PROJECTS\STAGING_WORK\FROMHOME\I205\JPA\MAP_DOCS\JPA\IF5 IMPACTS_SHEET_5_19.MXD - USER: JBEARD - DATE: 4/17/2019

**I-205 ABERNETHY
TREE IMPACTS**
FIGURE 5-19



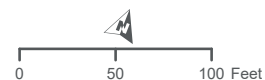
DSL WD # 2018-0209
Approval Issued February 21, 2019
Approval Expires February 21, 2024

Data was mapped using a resource grade Trimble GeoXH global positioning system (GPS) with a mapping accuracy of <=100 cm (1 meter)



- Photo Point
- Sample Plots
- Storm Drain
- Culvert
- Ordinary High Water - Not Regulated*
- Ordinary High Water - Regulated*
- Ditch-Not Regulated*
- Ditch-Regulated*

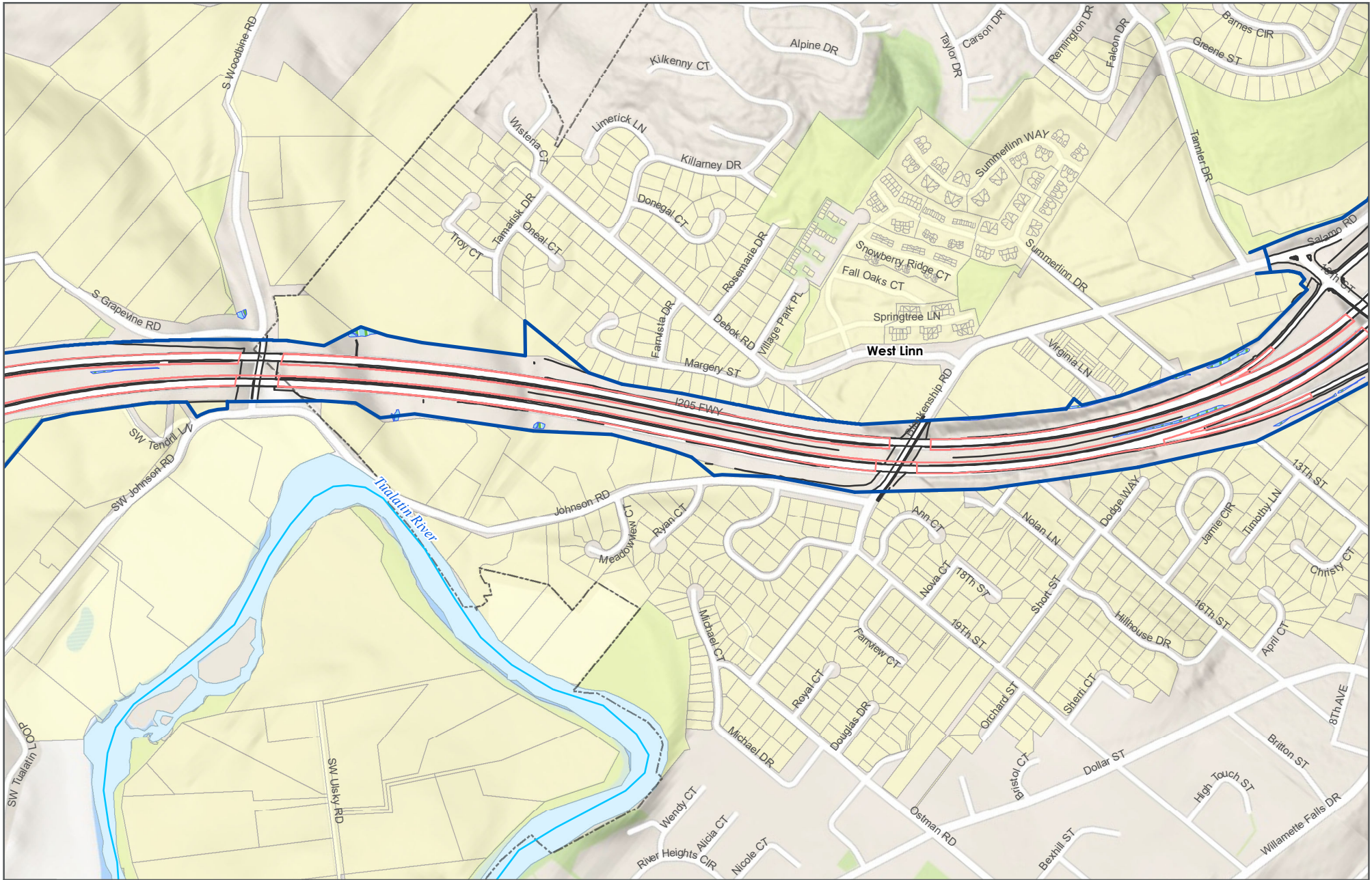
- API
- Stormwater Facility - Not Regulated*
- Wetland - Regulated*
- Wetland, Not Regulated*



I-205 ABERNETHY WETLANDS AND WATERBODIES

FIGURE 5-36

*Regulated and Non-Regulated features are based on the Preliminary Jurisdictional Determination in Tables 5-1 and 5-2 and should be considered preliminary until concurrence is received by the USACE and DSL.

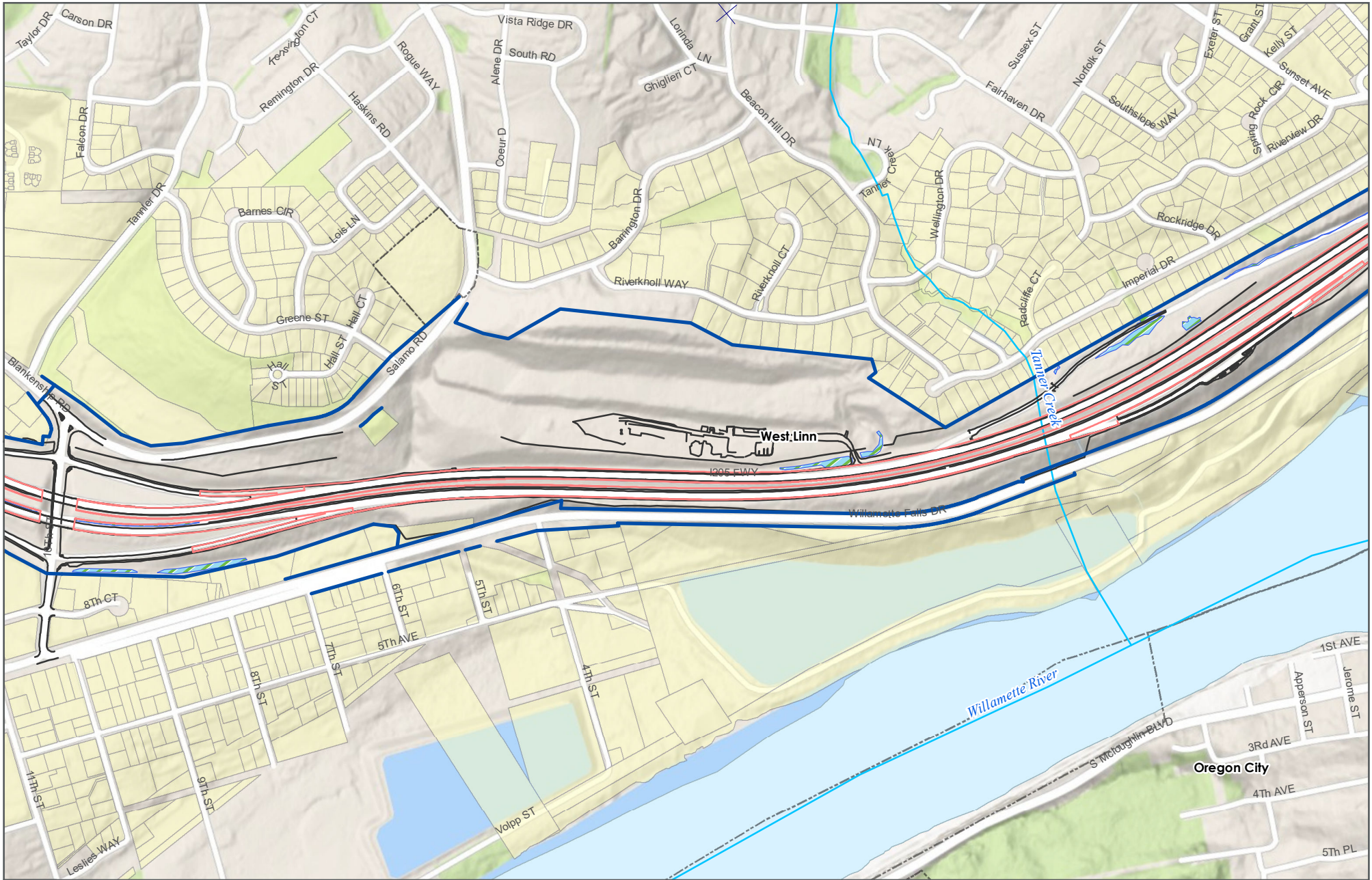


- Existing ROW
- Existing Roadway Design
- Proposed Easement
- Proposed Roadway Design
- Wetland
- Taxlot
- City Boundary

DATA SOURCE: METRO 2018, HDR 2018



**I-205 ABERNETHY
LAND USE APPLICATION
WEST LINN
SHEET 1 OF 3**



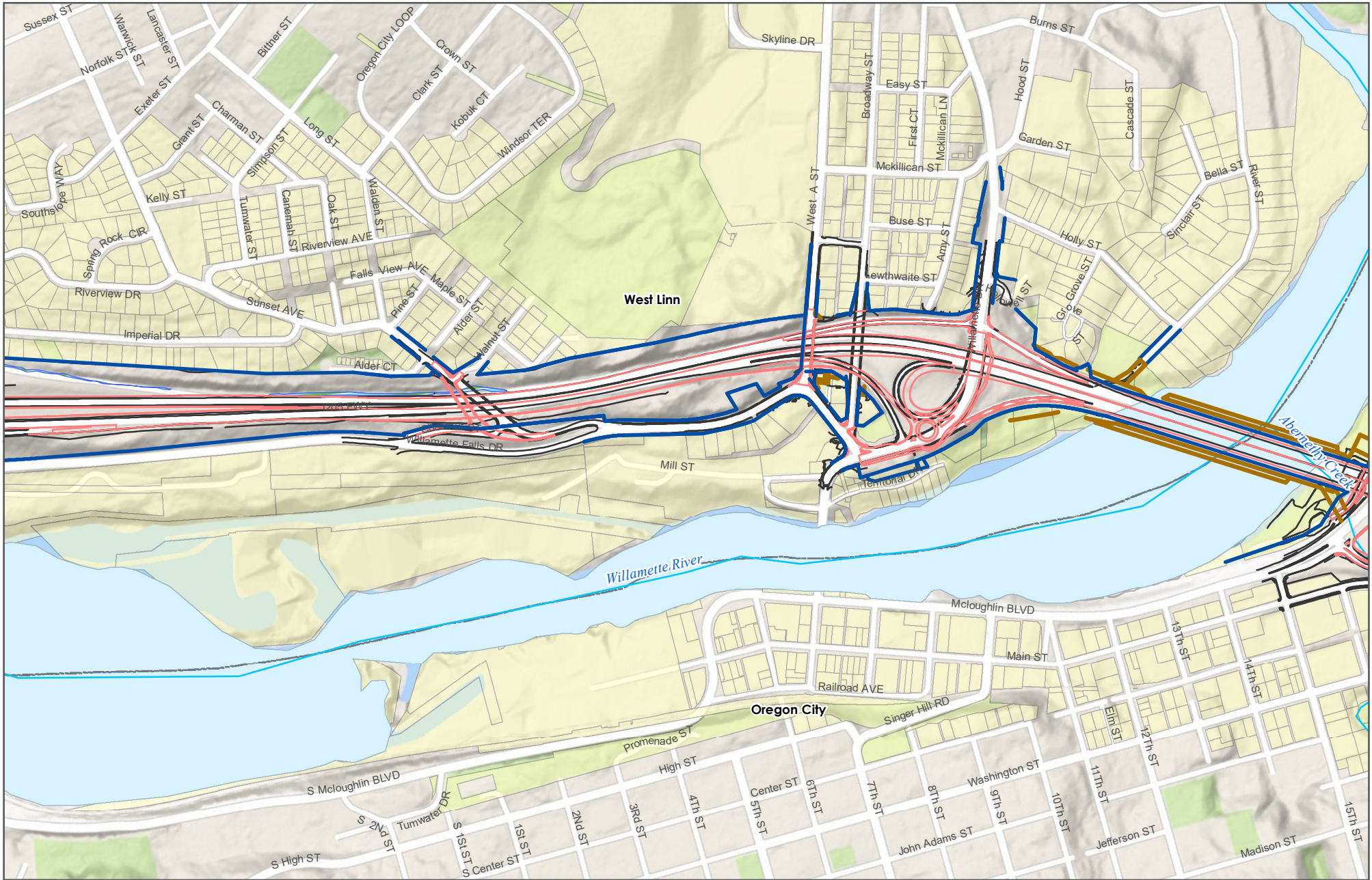
- Existing ROW
- Existing Roadway Design
- Wetland
- Proposed Easement
- Proposed Roadway Design
- Taxlot
- City Boundary



DATA SOURCE: METRO 2018, HDR 2018



I-205 ABERNETHY
LAND USE APPLICATION
WEST LINN
SHEET 2 OF 3



- Existing ROW
 — Existing Roadway Design
 Wetland
- Proposed Easement
 — Proposed Roadway Design
 Taxlot
- City Boundary

DATA SOURCE: METRO 2018, HDR 2018



I-205 ABERNETHY
LAND USE APPLICATION
WEST LINN
SHEET 3 OF 3