

Bridge Replacement Feasibility Study Update

May 2024 - SJNA

Priority Freight Bridges for Reconstruction

Priority Freight Bridge Replacem...
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PBOT Bridges

- Individual styles
- Burgard Viaduct over UPRR
- Columbia Blvd over N Portla...
- 33rd Ave over Lombard, UPR...

ODOT Bridge

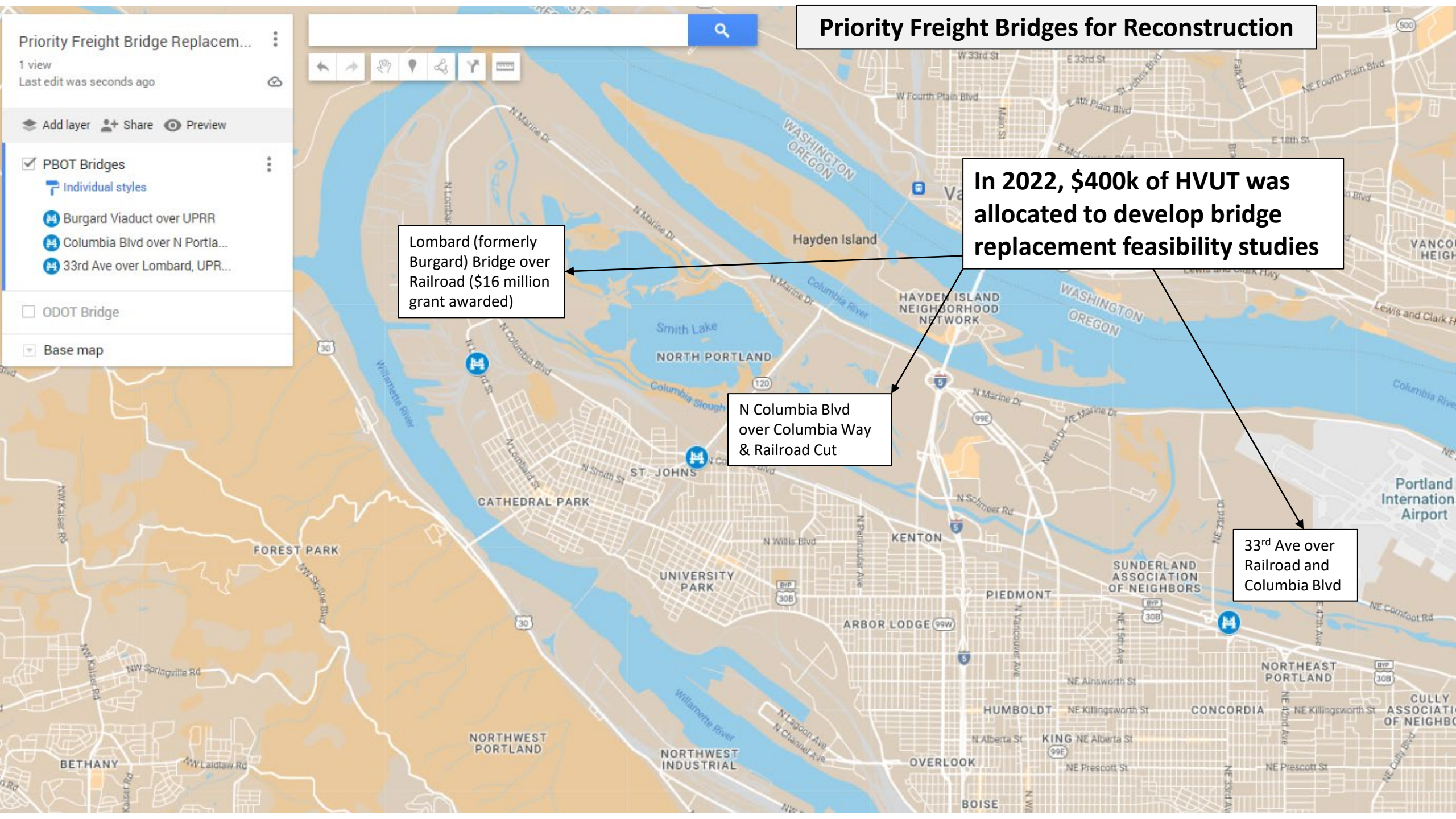
Base map

Lombard (formerly Burgard) Bridge over Railroad (\$16 million grant awarded)

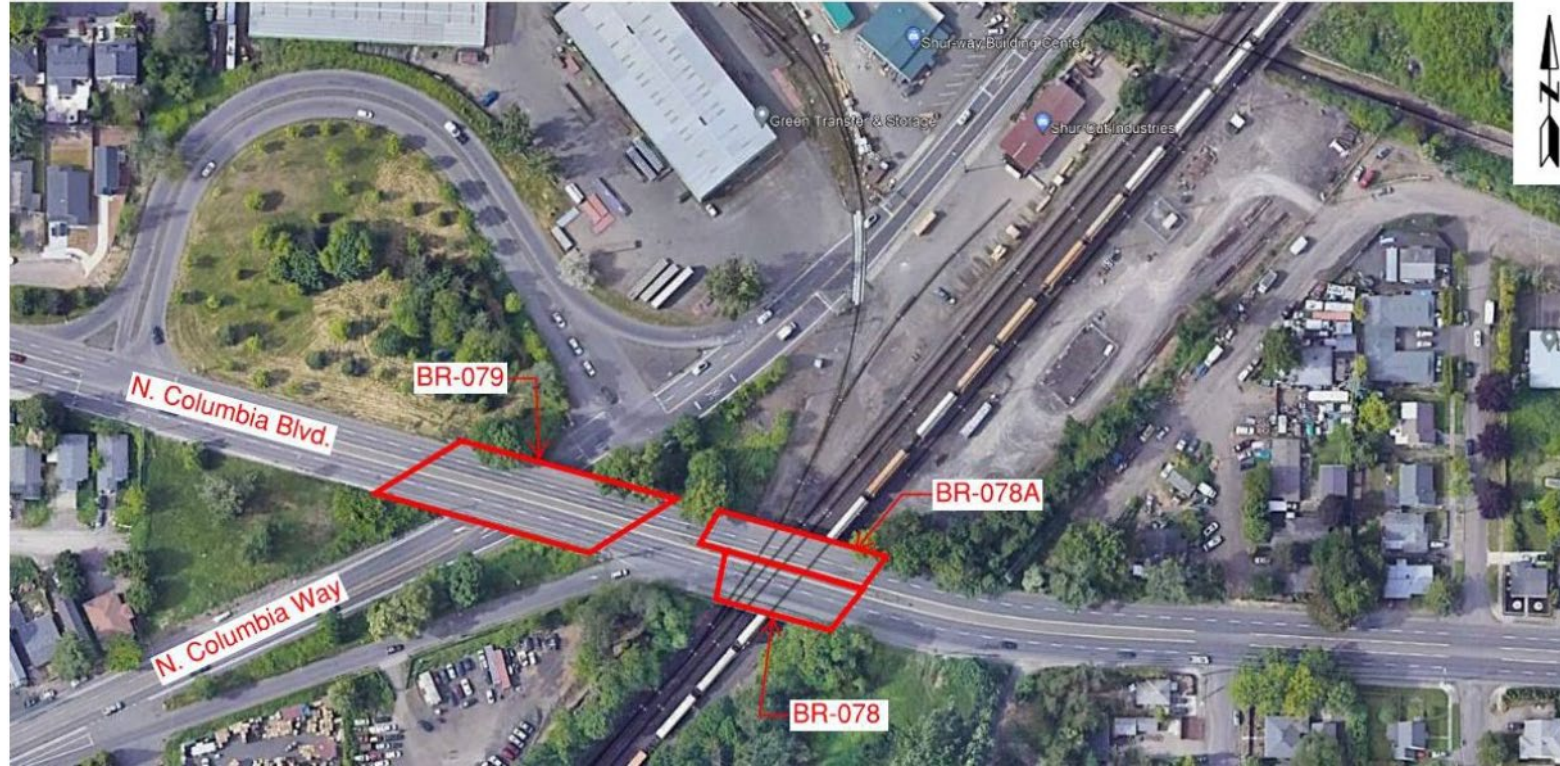
N Columbia Blvd over Columbia Way & Railroad Cut

In 2022, \$400k of HVUT was allocated to develop bridge replacement feasibility studies

33rd Ave over Railroad and Columbia Blvd

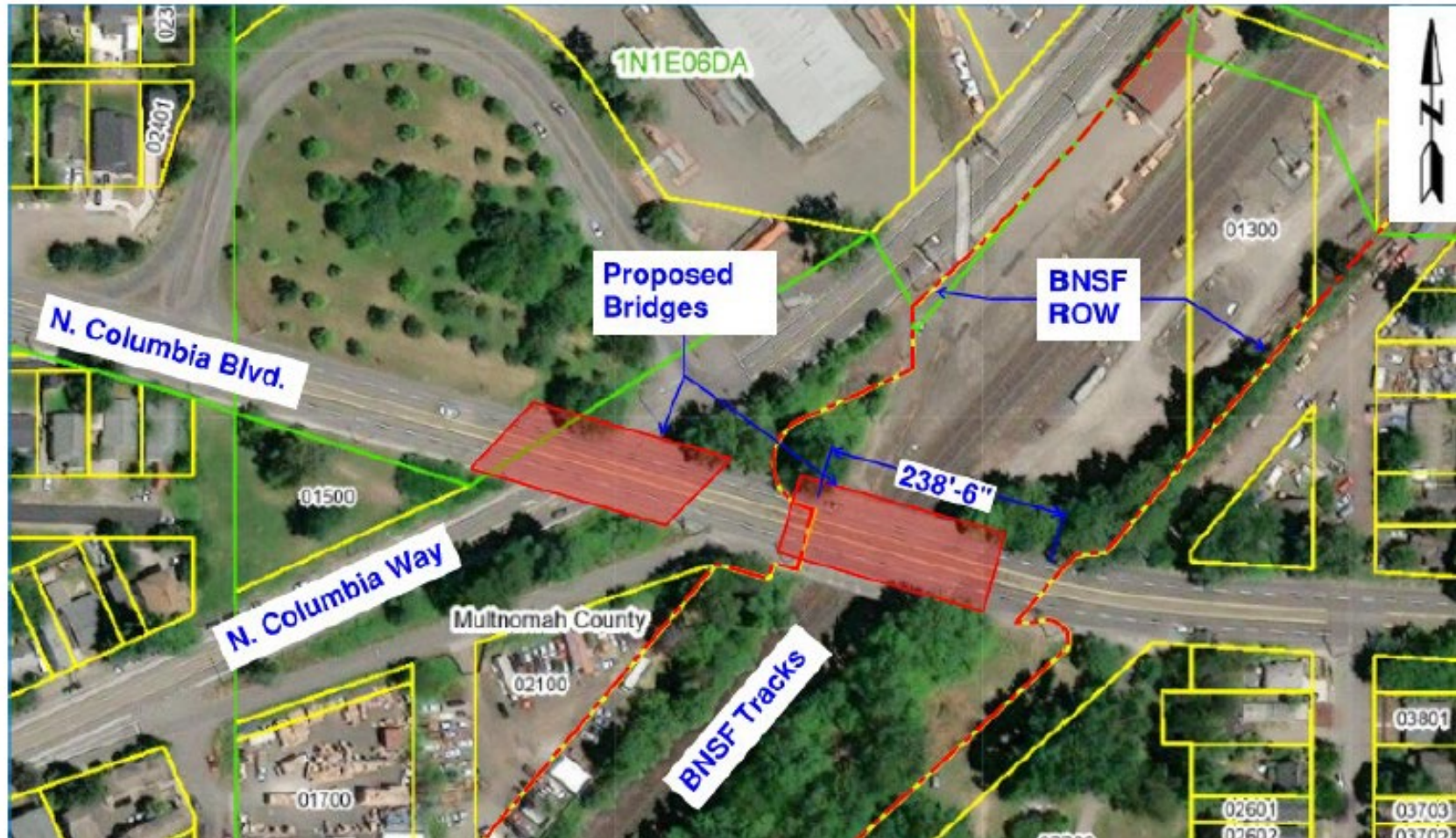


N Columbia Blvd over Columbia Way and BNSF Railroad Cut



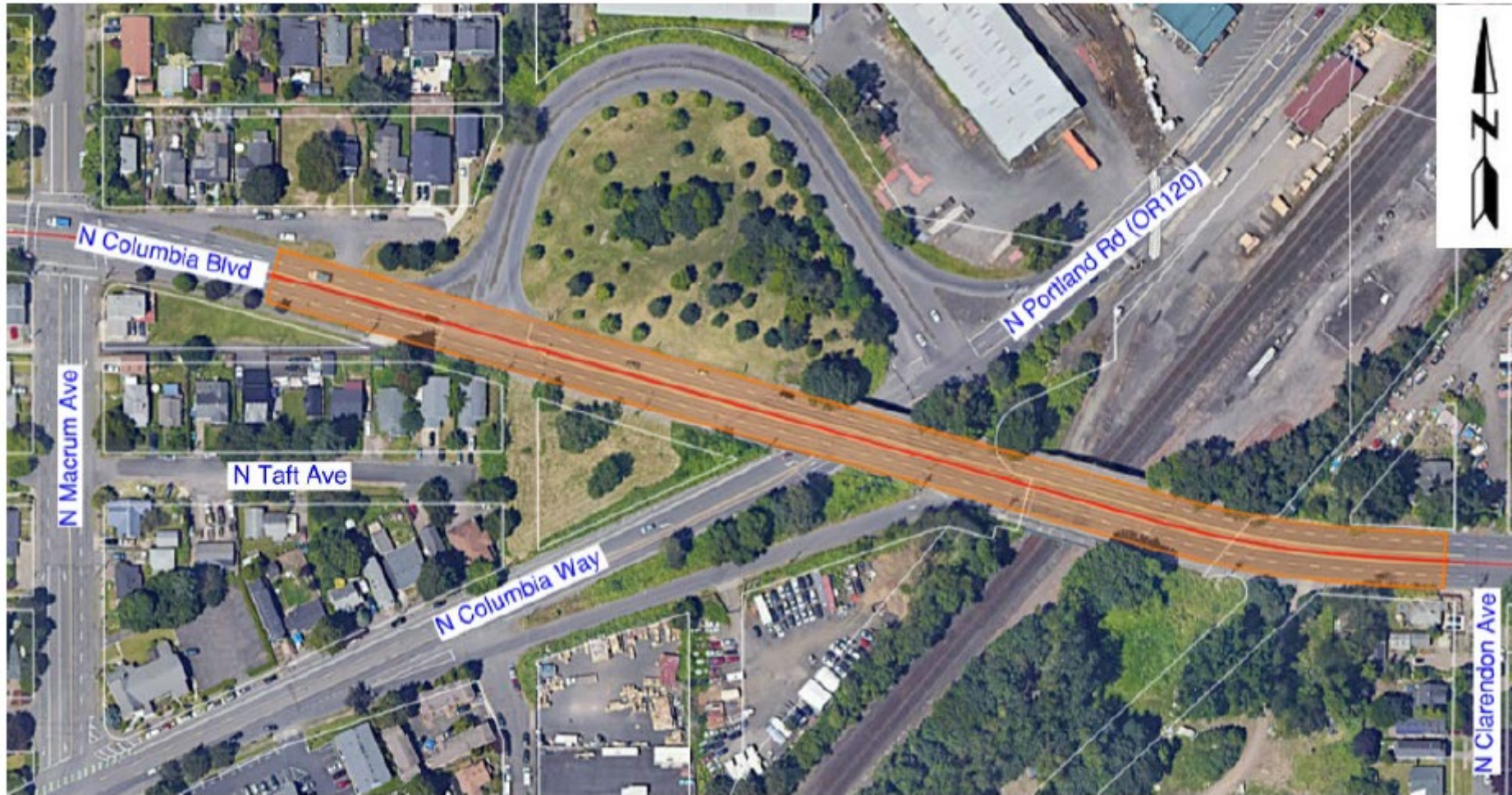
- Three separate structures, one built in 1909 and other two built in 1968
- All are aging, seismically vulnerable, barriers to over-dimensional freight, in danger of weight restriction, and have high risk of failure (fracture-critical)
- Priority Truck Street and is primary connection from Rivergate area to I-5, I-205, and rest of Columbia Corridor
- Only PBOT-owned bridge connection in North Portland crossing BNSF Railroad Cut
- Narrow sidewalk on one side, and no bicycle facilities on bridges or approaches
- Strong support for replacement from North Portland neighborhood groups

N Columbia Blvd over Columbia Way and BNSF Railroad Cut



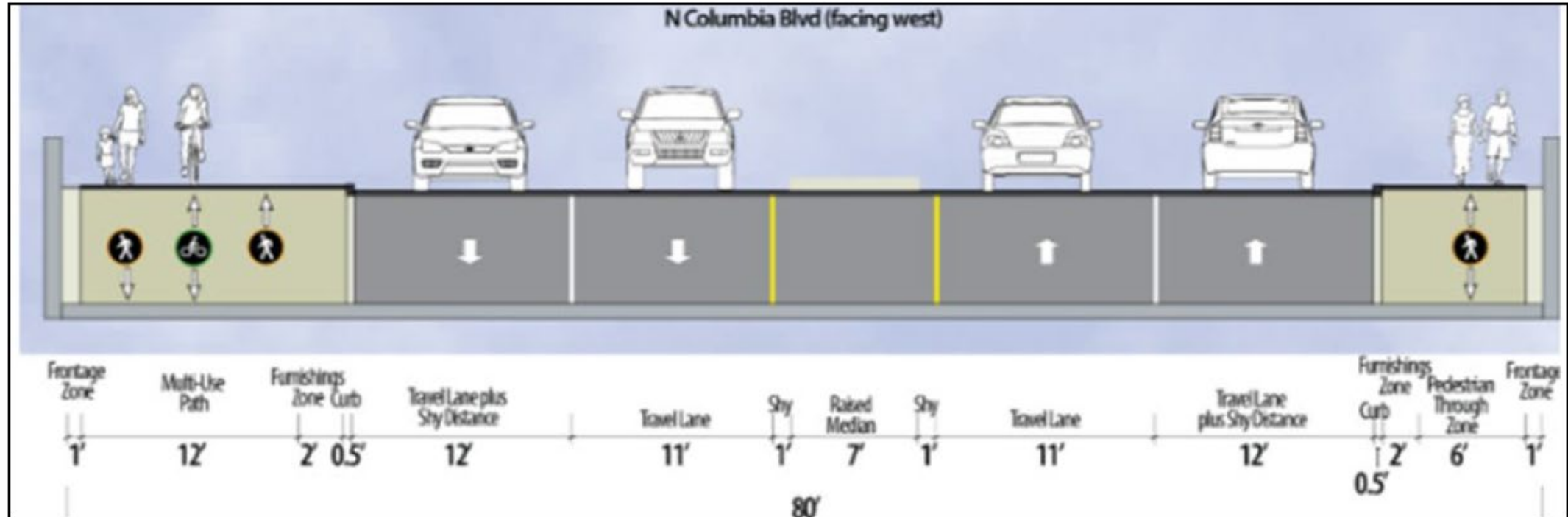
Replacement scope is two single-span bridges, one over Columbia Way and one over BNSF Railroad Cut

N Columbia Blvd over Columbia Way and BNSF Railroad Cut



Higher clearance needed over railroad means regrading Columbia Blvd to east and west to raise the height of the road and tying back in to surrounding streets

N Columbia Blvd over Columbia Way and BNSF Railroad Cut



Similar width as today, but with a multi-use path on south side to accommodate pedestrian and bicycle movement, connecting to other nearby pathways

N Columbia Blvd over Columbia Way and BNSF Railroad Cut



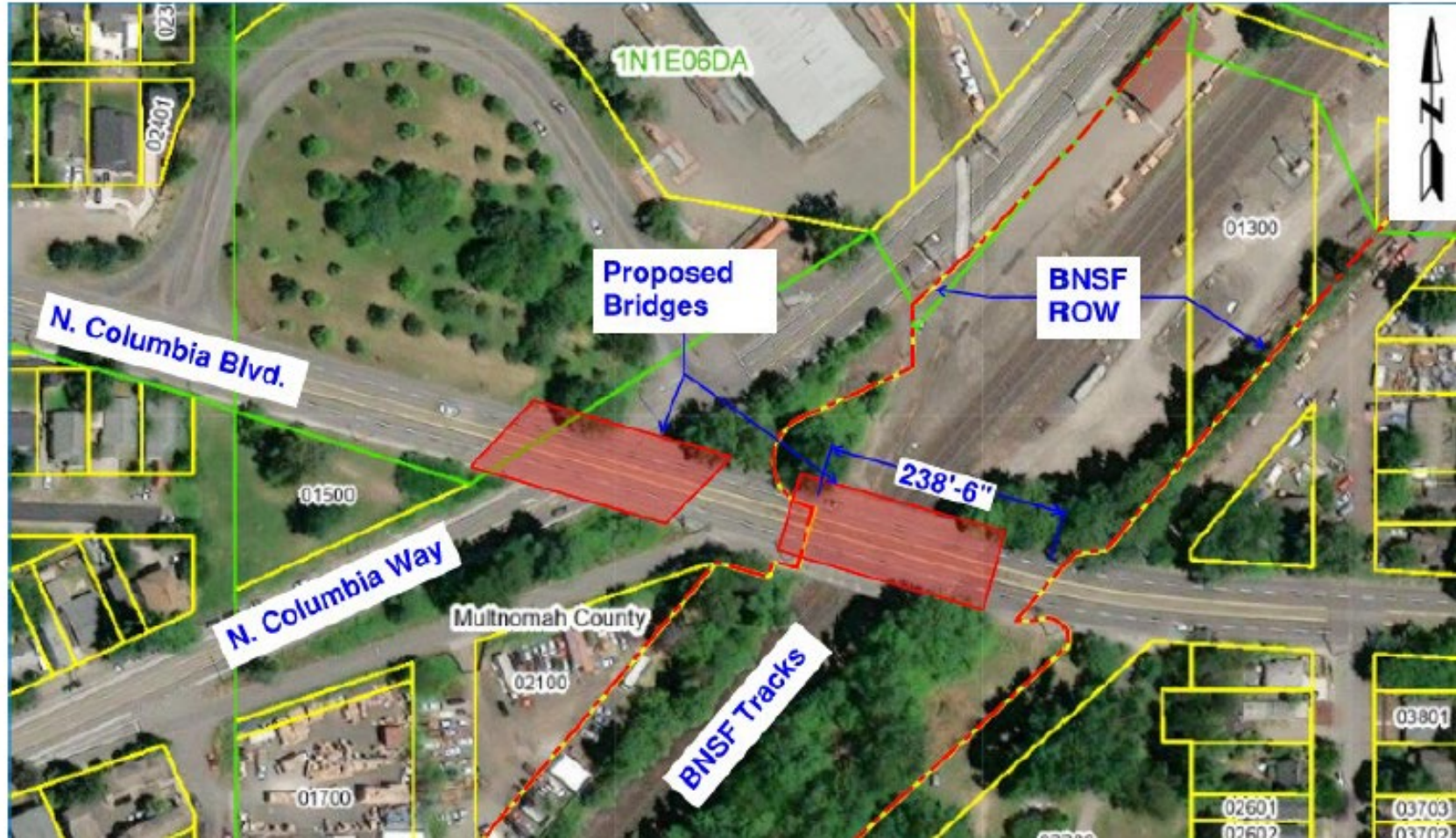
Traffic circulation change needed due to higher grade of bridges and roadway

N Columbia Blvd over Columbia Way and BNSF Railroad Cut



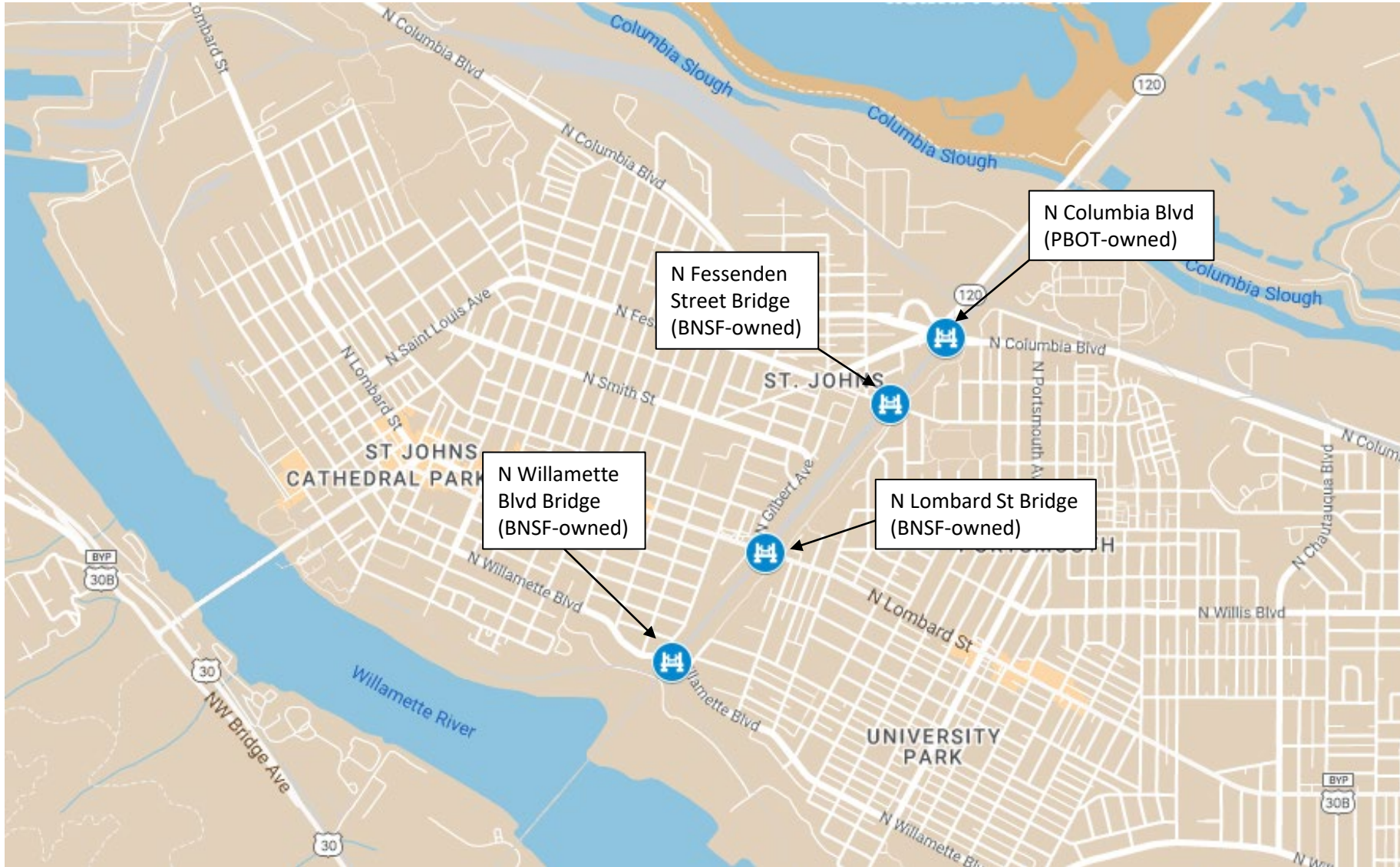
Multi-use Path connection and Columbia Way modifications

N Columbia Blvd over Columbia Way and BNSF Railroad Cut

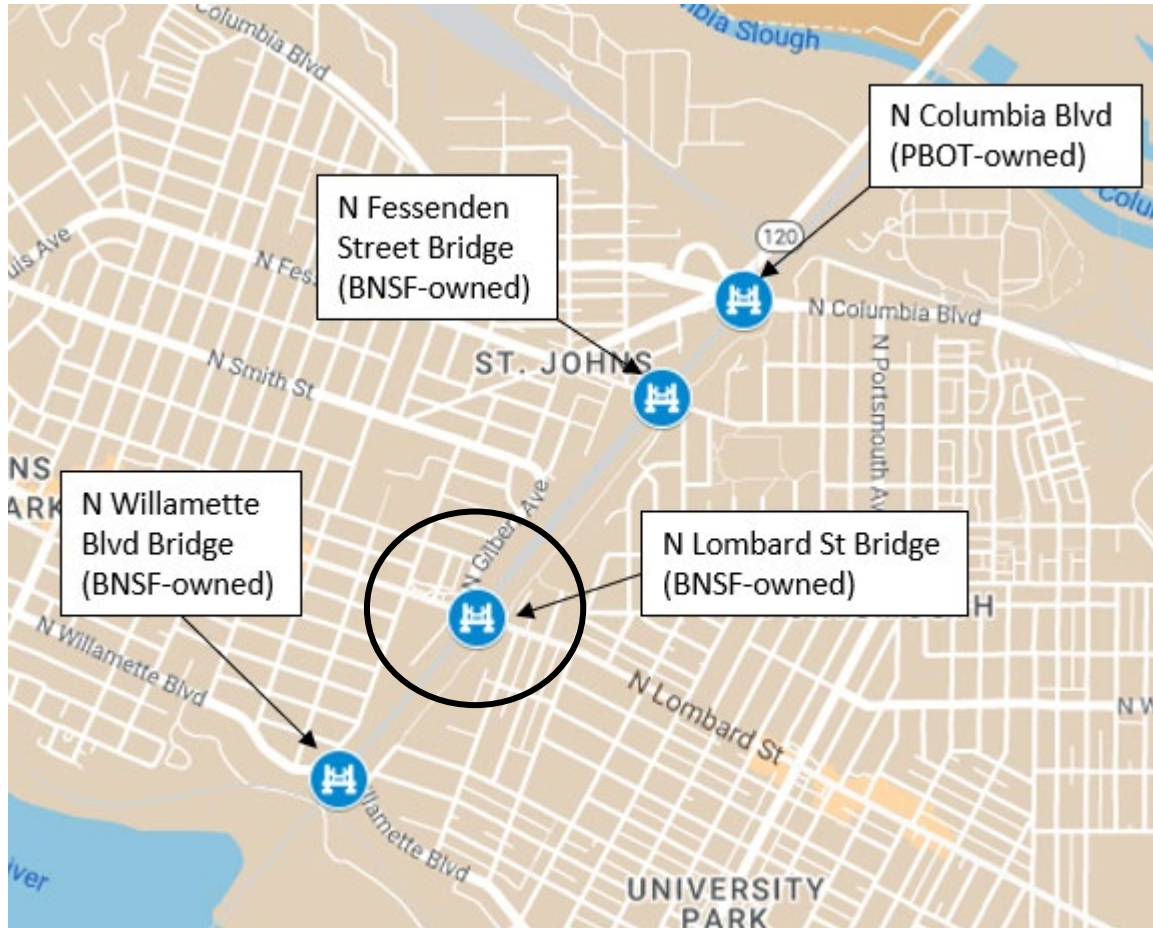


- Replacement Scope
 - Two single-span bridges, one over Columbia Way and one over BNSF Railroad Cut
 - Tie in higher grade roadway to surrounding streets and redesign circulation and access in the area, including major signal work and multi-use path connections
 - **\$57.5 million** fully-loaded cost plus contingency in 2027 dollars

Other Bridges over BNSF Railroad Cut in North Portland



Other Bridges over BNSF Railroad Cut in North Portland



- N Lombard Street over Railroad Cut
 - Lombard Street is an ODOT state highway (US 30 Bypass) on PBOT Right-of-way, and is a state Reduction Review Route for over-dimensional freight movement
 - Bridge was built by BNSF around 1908
 - Owned and maintained by BNSF under 1908 City Council Ordinance agreement
 - Bridge has not been adequately maintained and is now in very poor condition, including significant rust and corrosion issues as well as significant cracks in bents
 - Likely to fail in a moderate to severe earthquake, and subject to landslide failure
 - Extensive retrofit repair or replacement is likely needed in the near future to prevent the bridge from being weight restricted
 - Rough fully-loaded cost estimate for replacement is **\$37 million** in 2027 dollars
 - Similar condition and costs for Fessenden St and Willamette Blvd bridges
 - Difficult to fund projects to replace bridges that are not owned by public agencies