



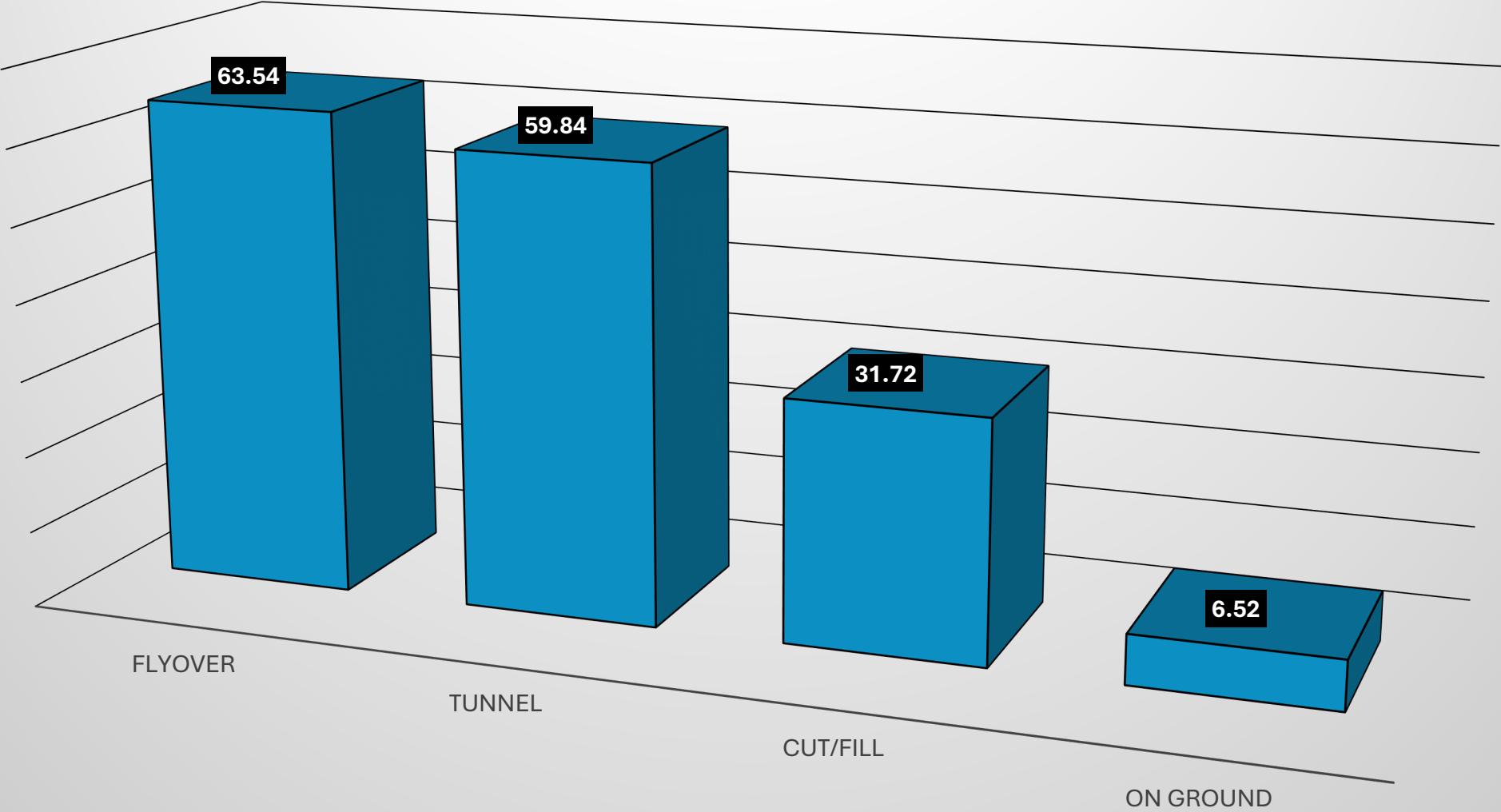
The CHSR Miles from Portland, OR, to Seattle Central Station

- CHSR miles between Portland, Oregon, Rose Quarter, and Longview, WA, on the ground is 9.66 miles, on flyovers is 20.69 miles, and in tunnels is 12.81 miles, a total of 43.16 miles.
- CHS miles between Longview and Centralia, on the ground, is 11.82 miles, on flyovers are 17.62 miles, and in tunnels, it is 12.62 miles, a total of 42.06 miles.
- CHSR miles between Centralia and Tacoma, on the ground, is 17.36 miles, on flyovers are 7.73 miles, and in tunnels, it is 21.77 miles. A total of 46.86 miles.
- CHSR between Tacoma and Seattle Central station/hub, on the ground, is 4.06 miles; on flyovers, 17.81 miles, and in tunnels, 13.03 miles. A total of 34.90 miles. SEA/TAC link: on the flyover, 3.74 miles; in the tunnel, 4.00 miles. A total of 7.74 miles. The total from Portland to Seattle direct is 161.29 miles; via SEA/TAC, it is 140.63 miles.
- Portland, Amtrak Station to Seattle King Amtrak Station is 187.00 miles long, the CHSR direct is ± 25.71 (22.34) miles shorter, and via SEA/TAC, it is 3.37.

The CHSR Miles from Portland Rose Quarter Station/Hub, OR, to Seattle Central Station

- CHSR miles between Portland, Oregon, Rose Quarter, and Seattle Central station/hub on flyovers are 63.54 miles; in tunnels are 59.84 miles; in cut/fill are 31.72 miles; and on the ground are 6.52 miles, for a total of 161.62 miles.
- CHSR via SEA/TAC: on the flyover, it is 3.74 miles, and in the tunnel, it is 4.00 miles, for a total of 169.03 miles.
- Portland Rose Quarter to Portland Airport (PDX) : on the ground, it is 0.61 miles; on flyovers, it is 7.46 miles; and in the tunnel, it is 1.43 miles.
- Amtrak to King Station is 187 miles long; the CHSR direct is ± 25.38 miles shorter, and via SEA/TAC, it is 17.97 miles shorter.
- The percentages in the Columned charts are rounded.

CHSR
Between Portland, OR
and Seattle Central, WA



Series 1	Flyover		Tunnel		Cut/Fill		On Ground	
	63.54	39.31%	59.84	37.02%	31.72	19.62%	6.52	4.05%

Legend



CHSR Station in Tunnel



CHSR Station on Flyovers



CHSR Station on Ground

 On ground

 Cuts

 Fills

 Flyovers

 Tunnels

 Existing Freight Railroads, other than BNSF and UP RR

 Existing Freight Railroads

C-ICE: Cascadia Inter-City Express

CCE: Cascadia Commuter Express



CHSR Corridor
between
Portland and
Seattle

The BNSF
freight corridor
is 150 years old
and has too
many tight
curves, grade
crossings, and
small towns to
develop HSR
technology.



Rose Quarter
Bullet Train
Station

Moda Center

N Interstate Ave

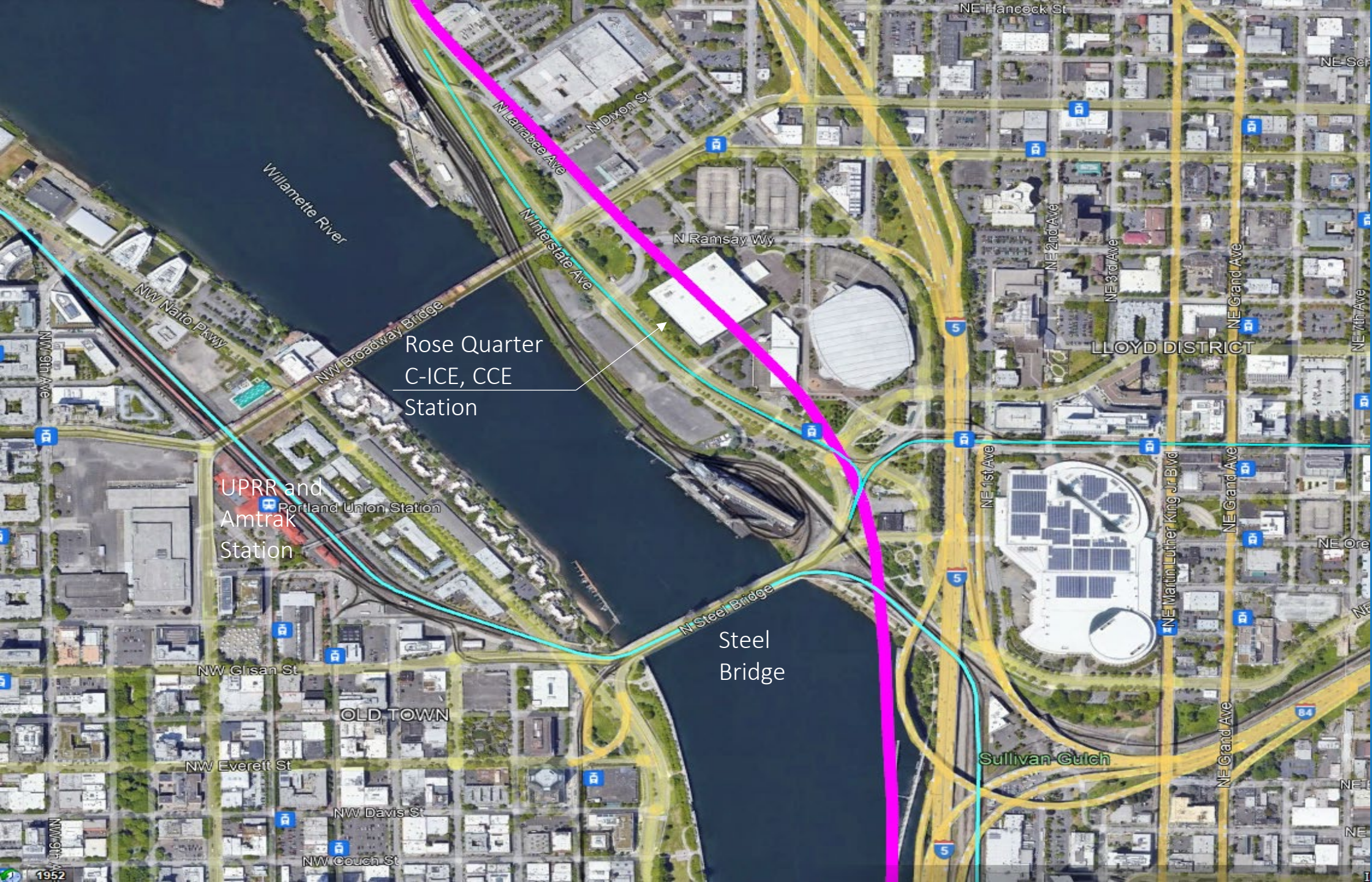
NE
Multnomah
St

Rendering by: Ankrom Moisan Architects and Planners

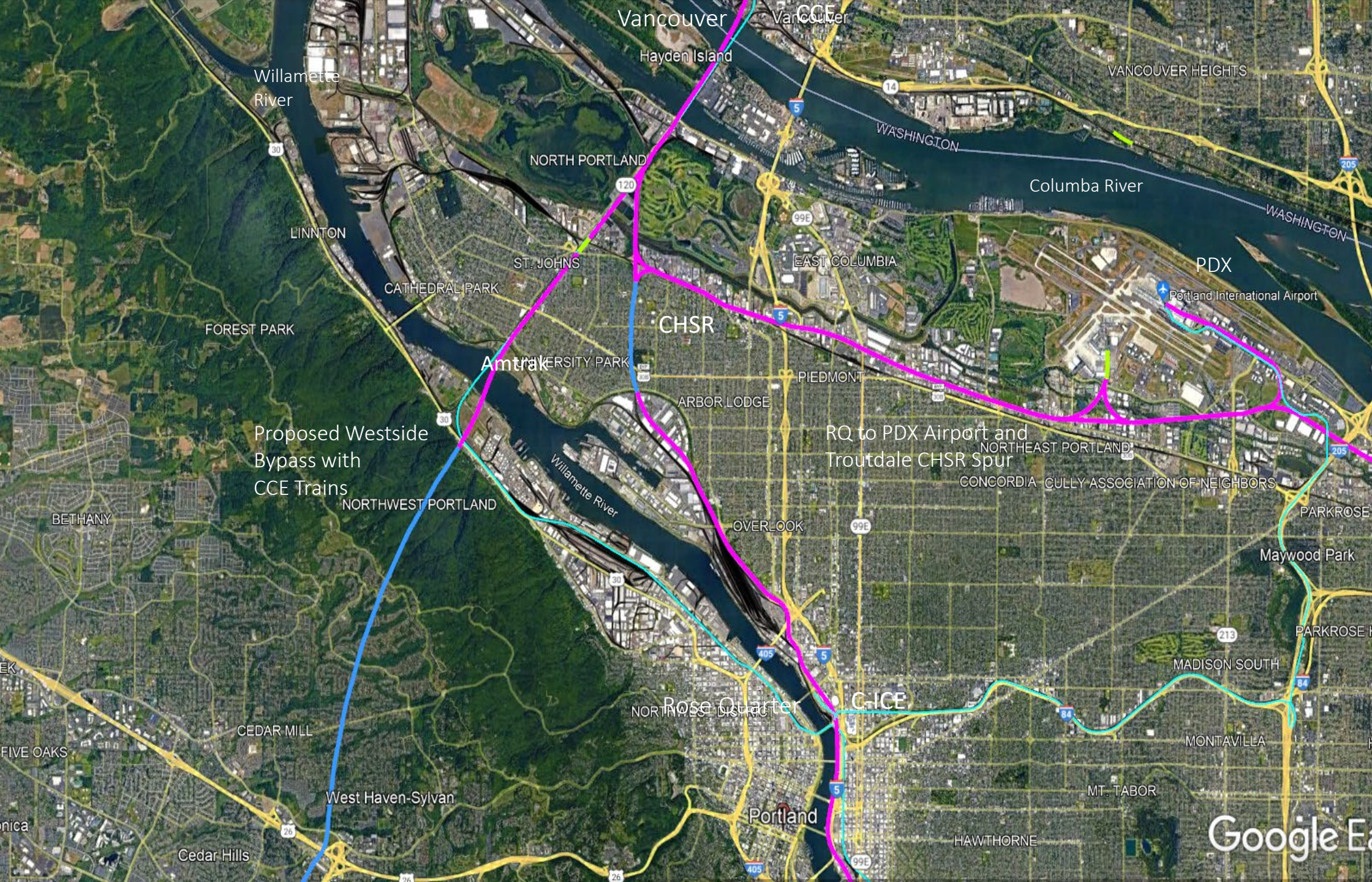
Rose Quarter
Bullet Train
Station, Former
Veterans
Memorial
Coliseum

This station will
serve Cascadia
Inter City Express
Trains (C-ICE) and
Cascadia
Commuter
Express Trains
(C-CE)

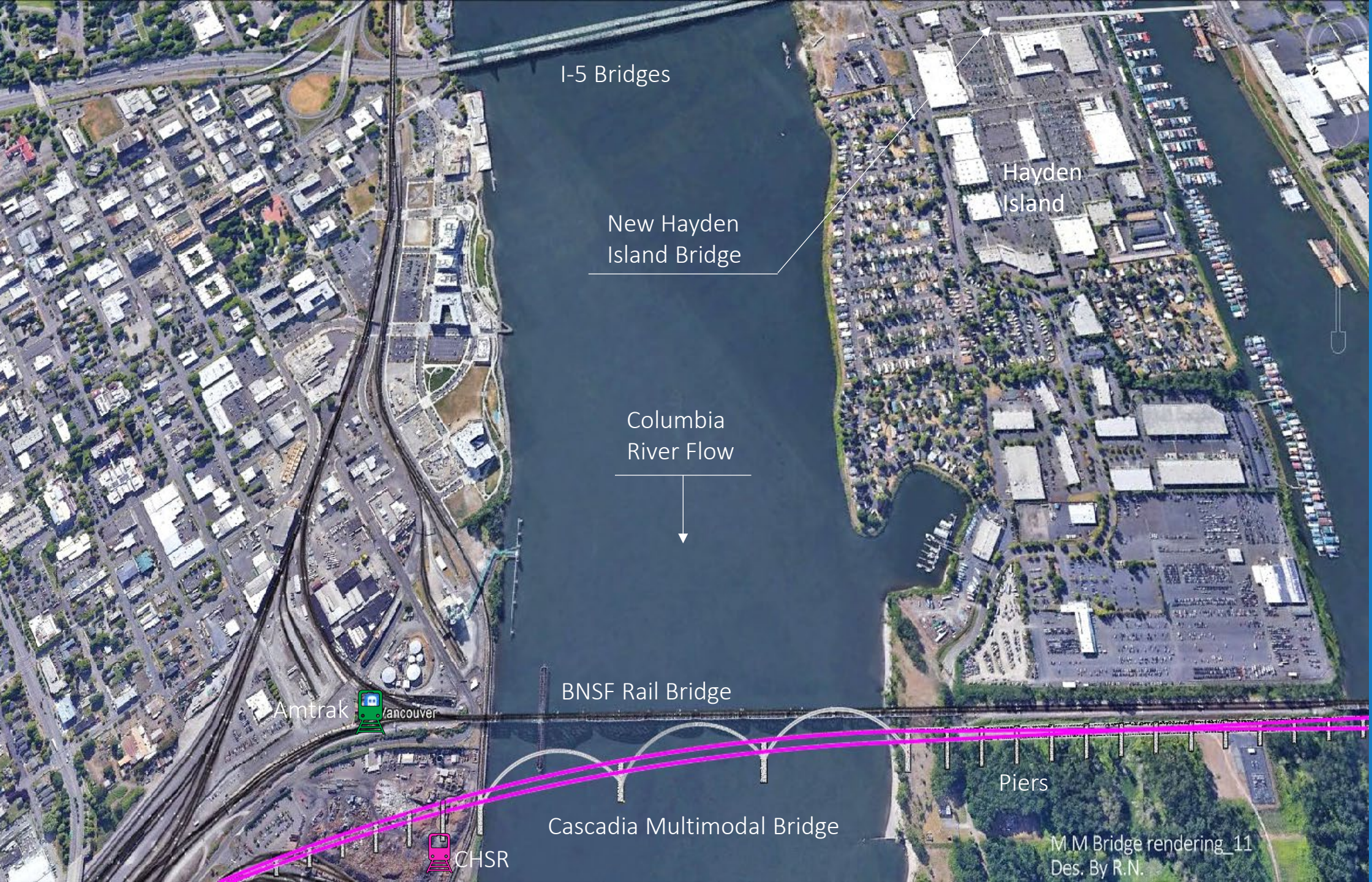
This station is
above ground to
eliminate all
roadway grade
crossings.



CHSR Corridor
at the Portland
Rose Quarter
Transportation
Hub



CHSR
Corridor
between Rose
Quarter and
Vancouver,
WA, and
other Possible
Corridors



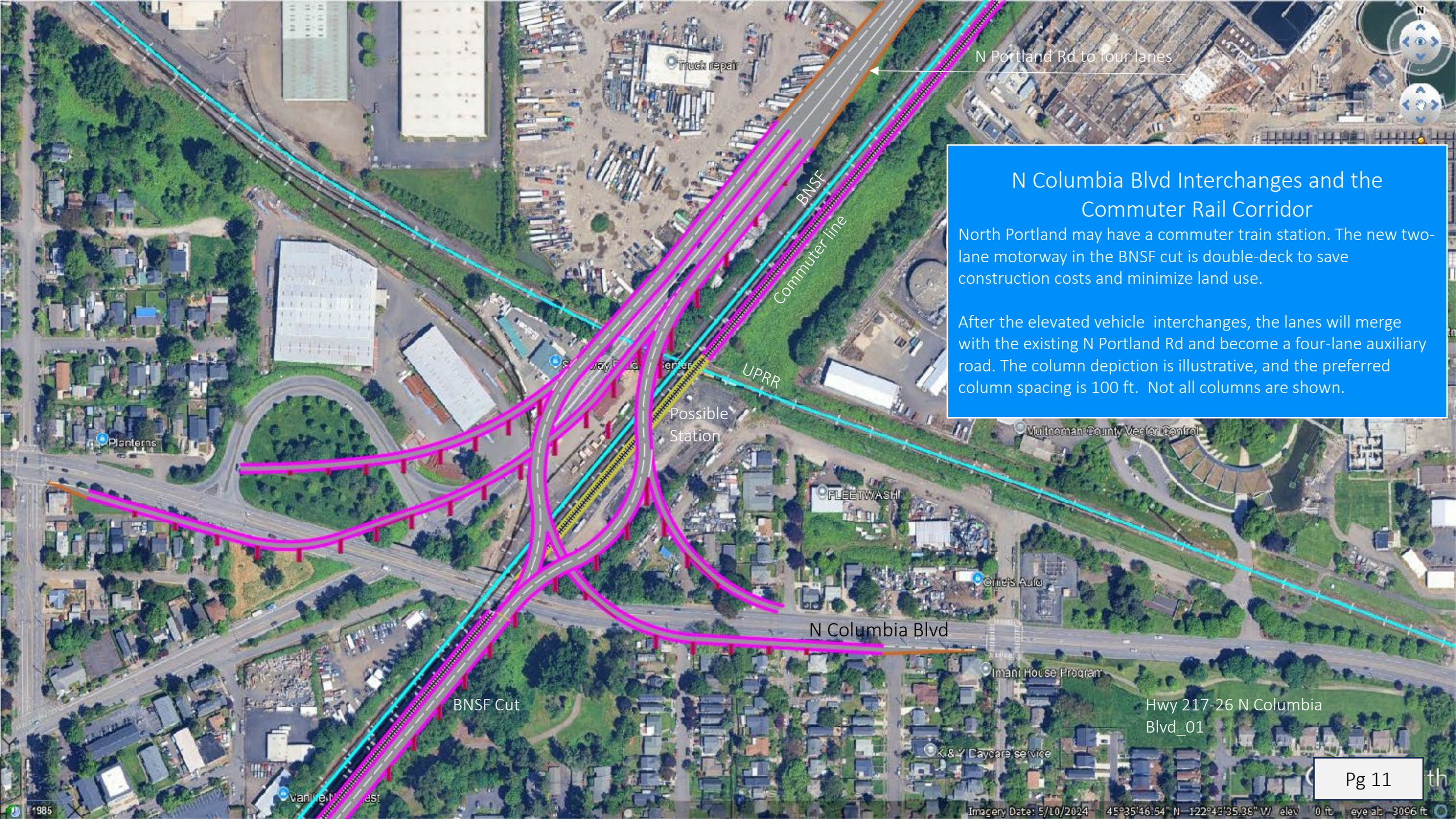
Proposed
Cascadia
Multimodal
Bridge,
Hayden Island
Bridge, I-5
Bridge, and
BNSF Railroad
Bridge

The possible CCE
Waterfront
Station is on the
west side of the
existing BNSF
tracks. The
Amtrak Station is
on the east side.
A pedestrian
bridge over the
BNSF tracks will
provide a
connection to
the Vancouver
Waterfront.



Proposed Hayden Island Auxiliary Bridge

The MAX corridor will be between the north and south traffic lanes on the new bridge over the Columbia River Slough at the same elevation as I-5.



N Columbia Blvd Interchanges and the Commuter Rail Corridor

North Portland may have a commuter train station. The new two-lane motorway in the BNSF cut is double-deck to save construction costs and minimize land use.

After the elevated vehicle interchanges, the lanes will merge with the existing N Portland Rd and become a four-lane auxiliary road. The column depiction is illustrative, and the preferred column spacing is 100 ft. Not all columns are shown.



BNSF

BNSF

N Portland Rd to four lanes

On-ramp to Vancouver, grade 0.55%

N Shuttle Rd

Off-ramp from Vancouver

Off-ramp from Vancouver

N Marine Dr

To Vancouver

To Rose Quarter

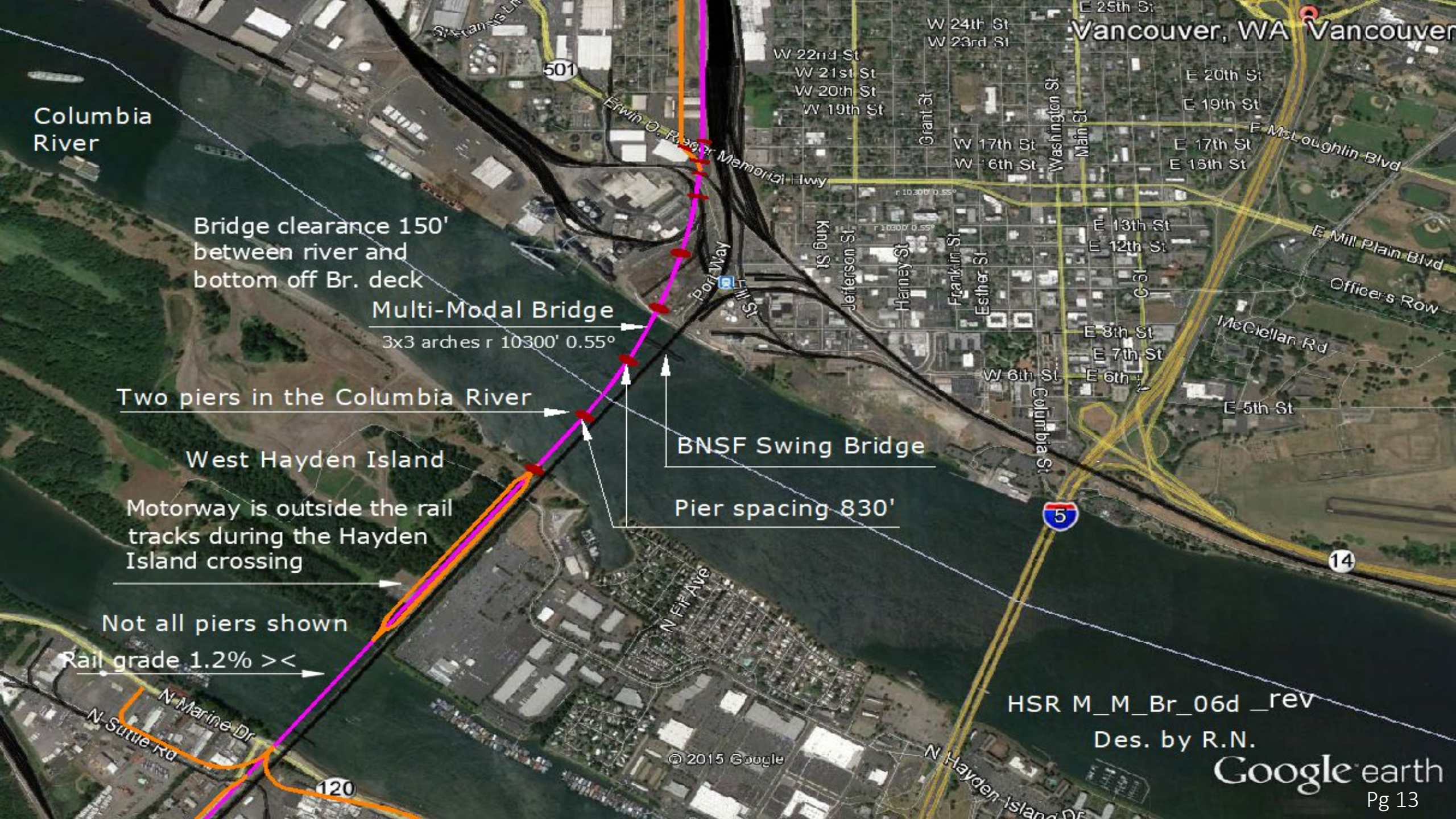
CHSR

Existing BNSF/UPRR

BNSF

On-ramp to Vancouver

CHSR Multi-Modal Bridge, Revised version
The CHSR is above the BNSF/UPRR tracks.
The roadways go below the CHSR tracks to Hayden Island, where they will go above.
The N Portland Rd has single-lane on- and off-ramps.
N Marine Dr from the I-5 interchange has a single on-ramp to Vancouver.
The Vancouver-to-N Marine Dr has a single off-ramp.
This layout will reduce traffic on the I-5 bridge by 30%.



Columbia River

Vancouver, WA Vancouver

Bridge clearance 150'
between river and
bottom off Br. deck

Multi-Modal Bridge

3x3 arches $r\ 10300'\ 0.55^\circ$

Two piers in the Columbia River

West Hayden Island

Motorway is outside the rail
tracks during the Hayden
Island crossing

BNSF Swing Bridge

Pier spacing 830'

Not all piers shown

Rail grade 1.2% $><$

HSR M_M_Br_06d_rev

Des. by R.N.

Google earth

Pg 13



From Fruit
Valley Rd
To
Hwy 30

To Mill
Plain Blvd

CHSR
BNSF/UPRR

New CCE
Station and
Parking

Four Lane
Vehicle
Expressway

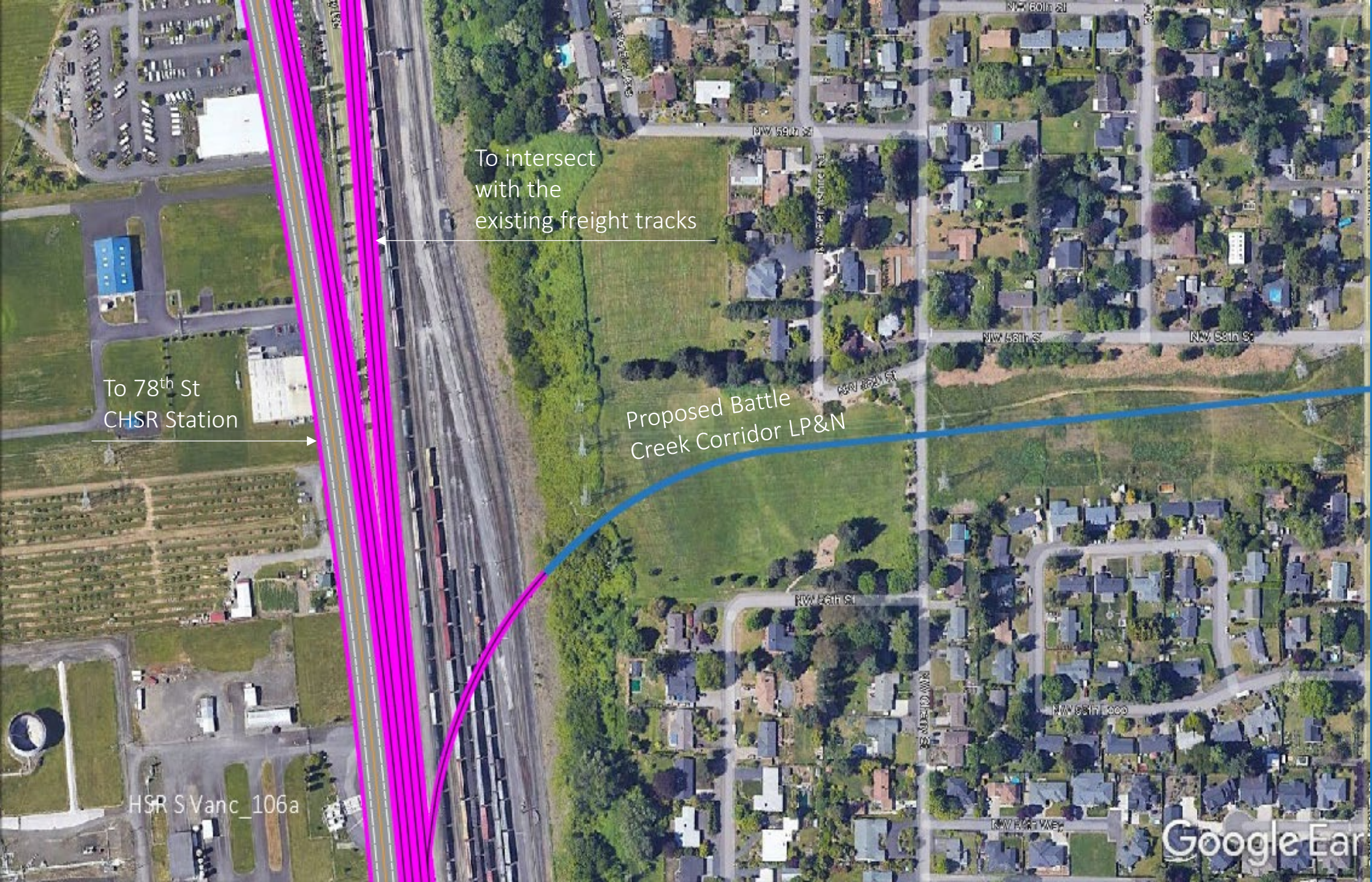
New Vancouver
Waterfront Area

Columbia River

Rendering by: Ankrom Moisan Architects and Planners

The Cascadia Multimodal Bridge Corridor Connections to Mill Plain Blvd in Vancouver, Washington

All three corridors are elevated above the existing freight rail yard and will not interfere with on-ground freight movements.



CHSR Corridor
1.6 Miles
North of 4th
Plain Blvd

At this point, the
CHSR corridor
will split. The
freight line will
reconnect with
the existing
freight tracks,
and the CHSR
will continue
north.

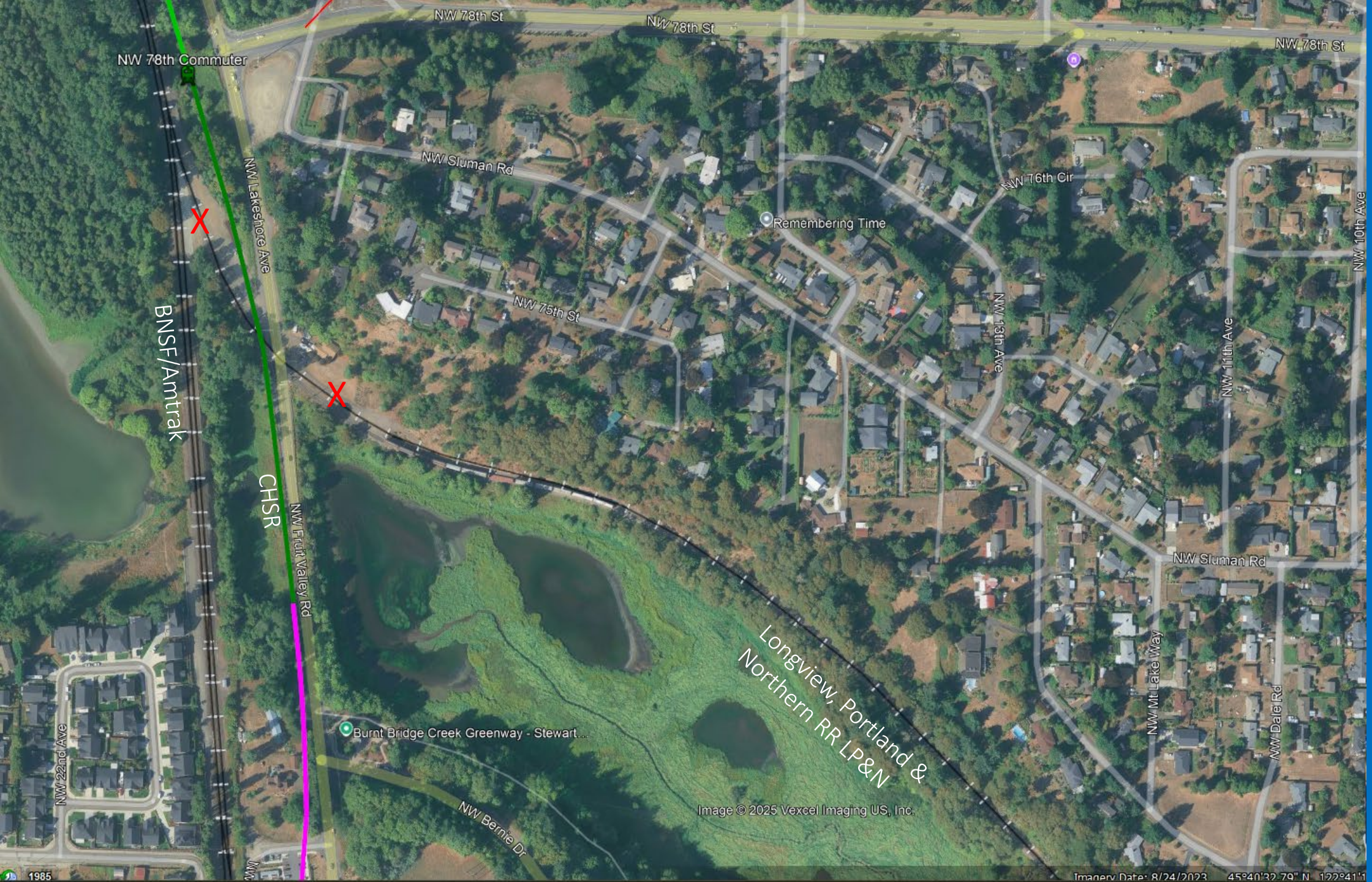
The Battle Creek
Corridor is a
proposed line to
serve
commuters in
northwest
Vancouver.



CHSR Corridor at the Proposed NW Lakeshore Ave Overpass

The new NW
Lakeshore Ave
overpass will
become a four-
lane corridor.

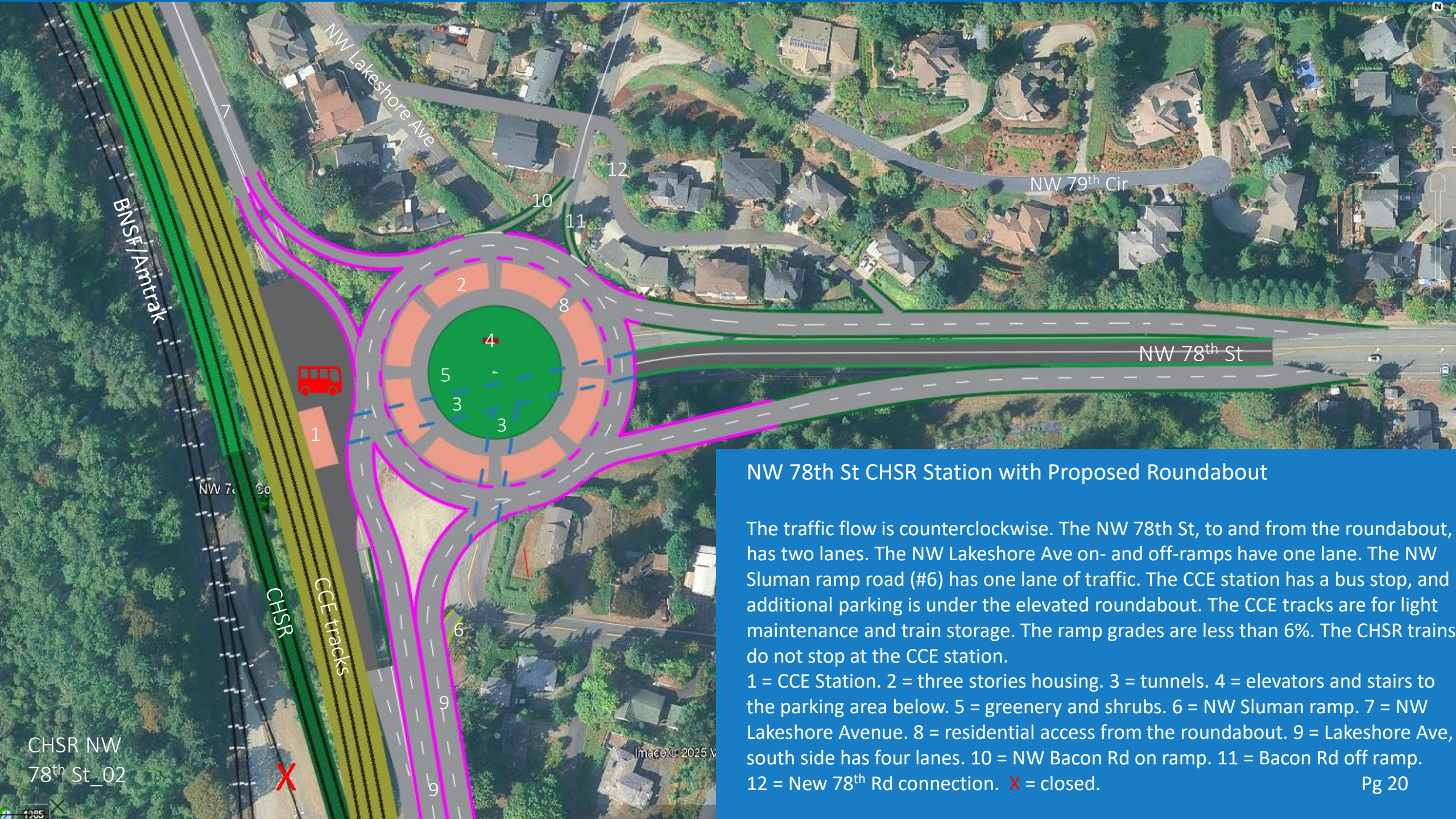
The CHSR is in a
short tunnel
below the new
NW Lakeshore
Ave bridge.



CHSR South of NW 78th St CCE Station

The existing LP&N freight RR corridor will be closed X and rerouted 1.26 miles to the south, just north of NW 56th St, and in a tunnel below the HV power lines.

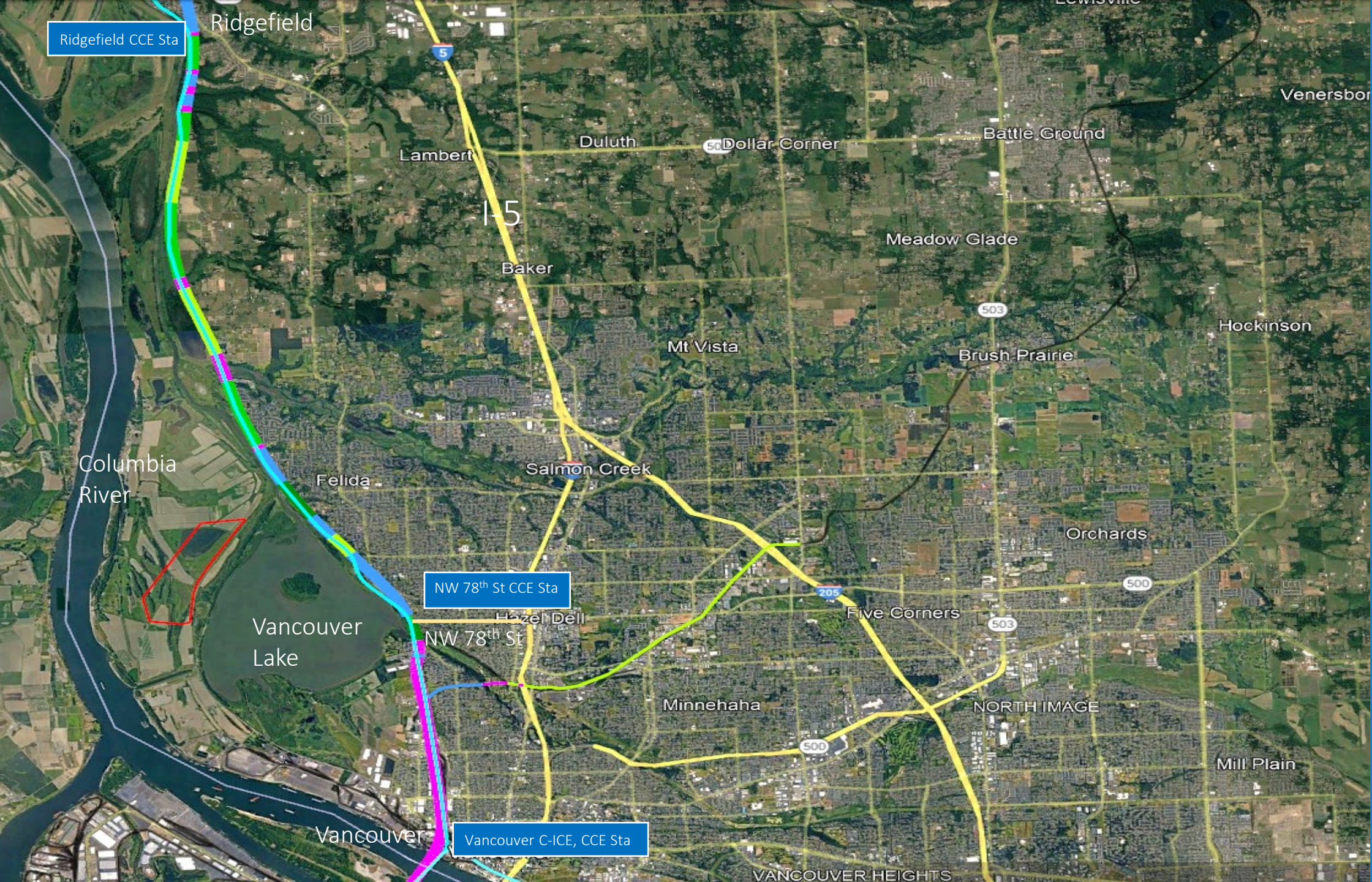
The existing LP&N RR corridor can then be developed for housing.



NW 78th St CHSR Station with Proposed Roundabout

The traffic flow is counterclockwise. The NW 78th St, to and from the roundabout, has two lanes. The NW Lakeshore Ave on- and off-ramps have one lane. The NW Sluman ramp road (#6) has one lane of traffic. The CCE station has a bus stop, and additional parking is under the elevated roundabout. The CCE tracks are for light maintenance and train storage. The ramp grades are less than 6%. The CHSR trains do not stop at the CCE station.

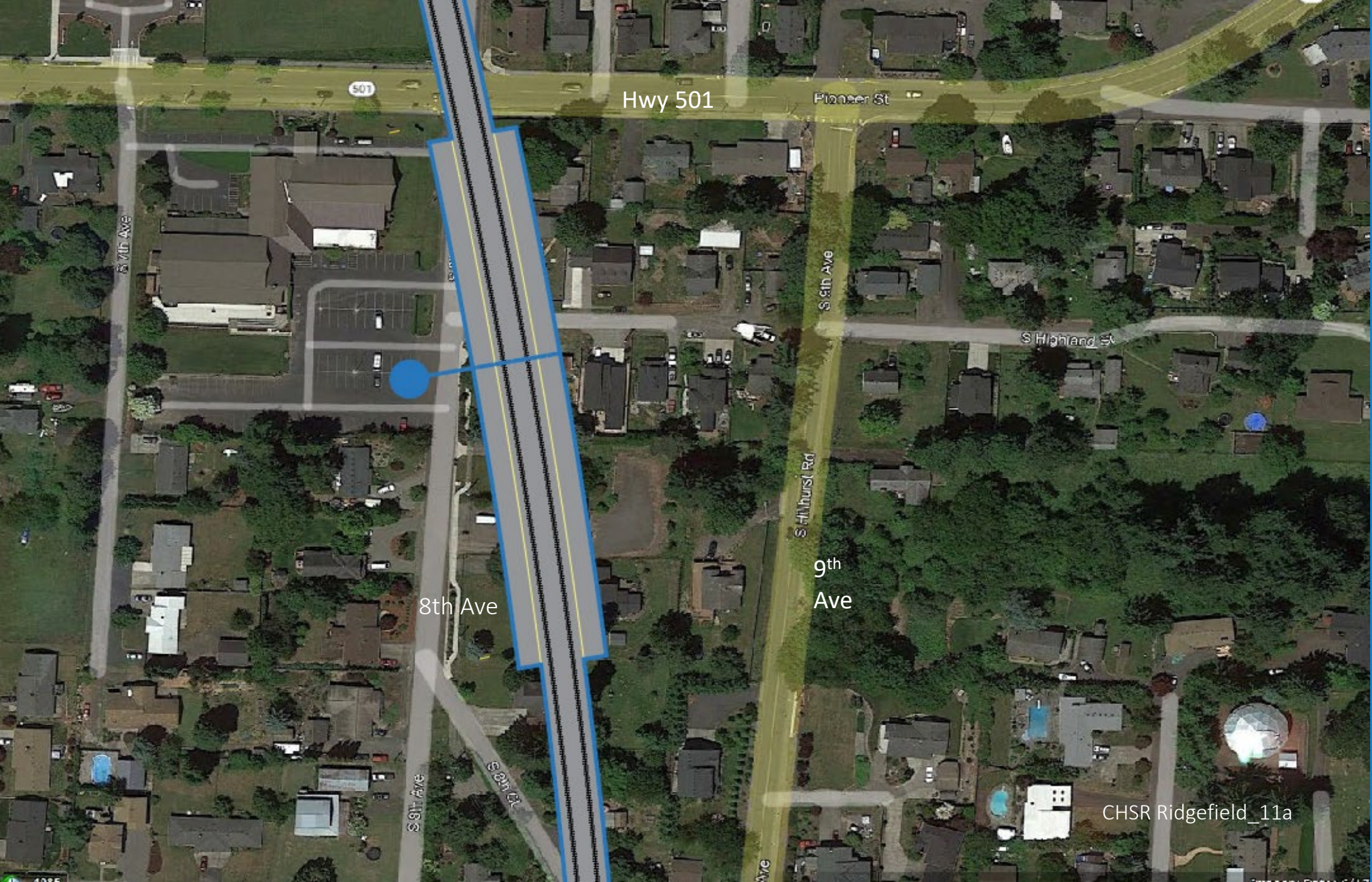
1 = CCE Station. 2 = three stories housing. 3 = tunnels. 4 = elevators and stairs to the parking area below. 5 = greenery and shrubs. 6 = NW Sluman ramp. 7 = NW Lakeshore Avenue. 8 = residential access from the roundabout. 9 = Lakeshore Ave, south side has four lanes. 10 = NW Bacon Rd on ramp. 11 = Bacon Rd off ramp. 12 = New 78th Rd connection. X = closed.



CHSR between
NW 78th St in
Vancouver and
Ridgefield

Several miles are
along a hillside
with a 9% slope.

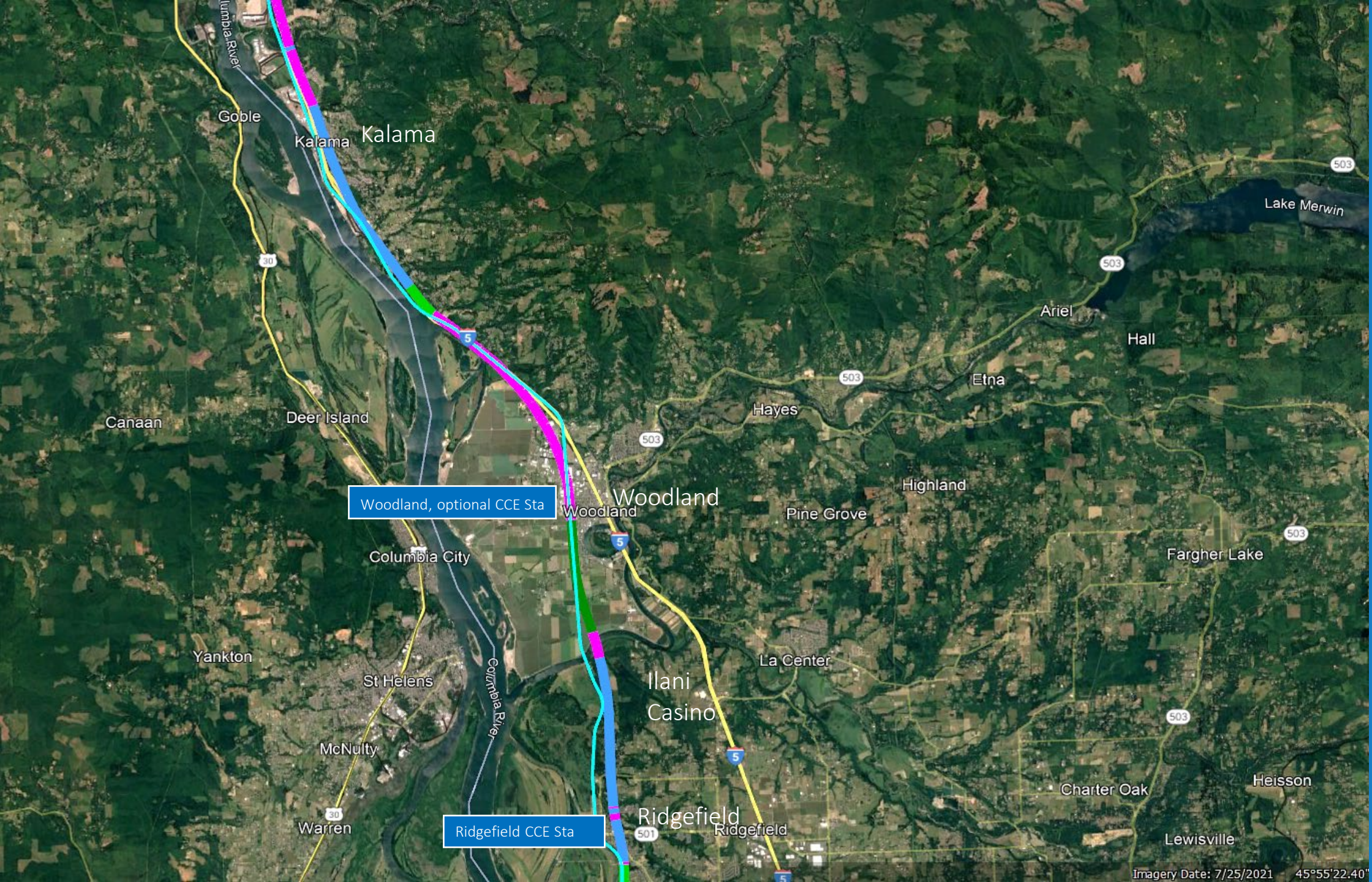
See Stabilization
Plan Addendum.



CHSR Ridgefield CCE Underground Station

The overall station width is 76 ft, and the length is 750 feet.

Commuter trains are shorter than C-ICE trains.



CHSR Corridor
between
Ridgefield and
North Kalama



CHSR Longview Yard

This is a new 9-acre CHSR light-duty yard.

This yard will provide the most-needed train maintenance and can store CHSR trains.

Express freight transit exchange can be done at this yard. This yard has no interchange with freight railroads.

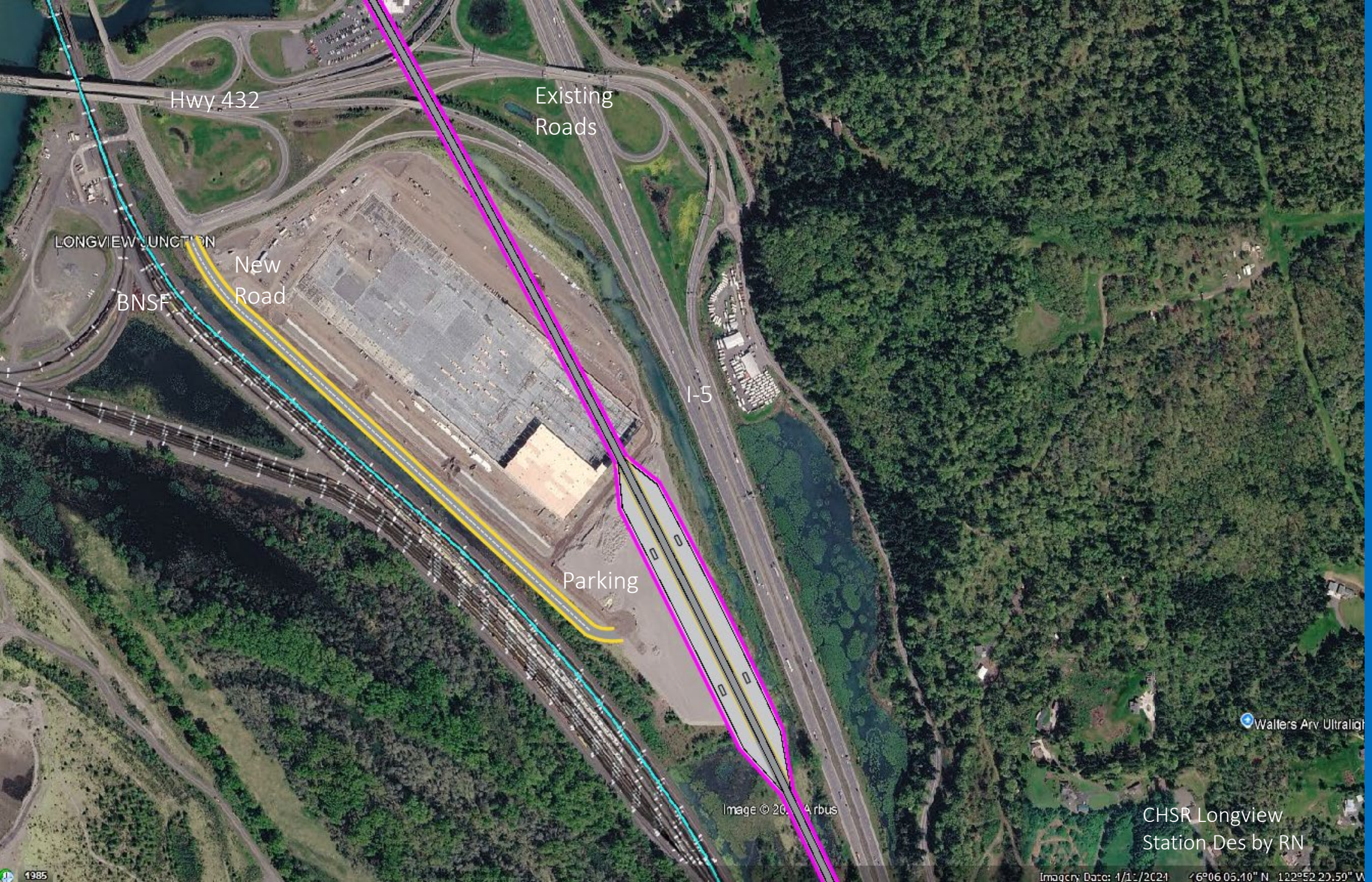
A new access road will be required.



CHSR Corridor Original CHSR Station Location

The original station plan can no longer be used due to insufficient consideration of the previously proposed corridor planning.

This is why long-term HSR planning is crucial for achieving the preferred results.



Longview CHSR Station

This is the new station location for the CHSR.

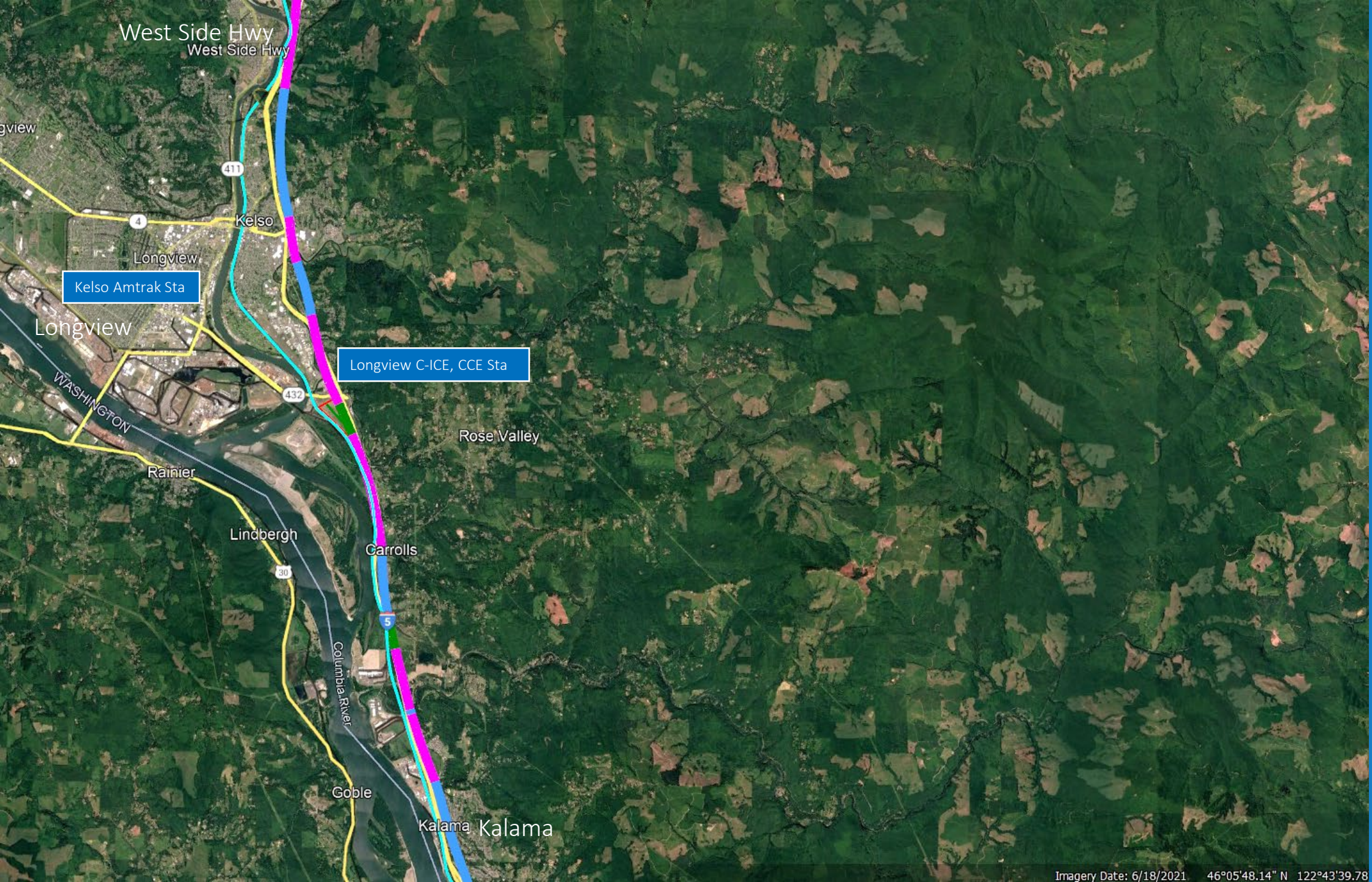
Parking area = 15 acres.

The platform is 40 feet above ground. The station tracks are 1300 feet long.

This station has four tracks at the platform. There are two 20-foot-wide platforms between the tracks.

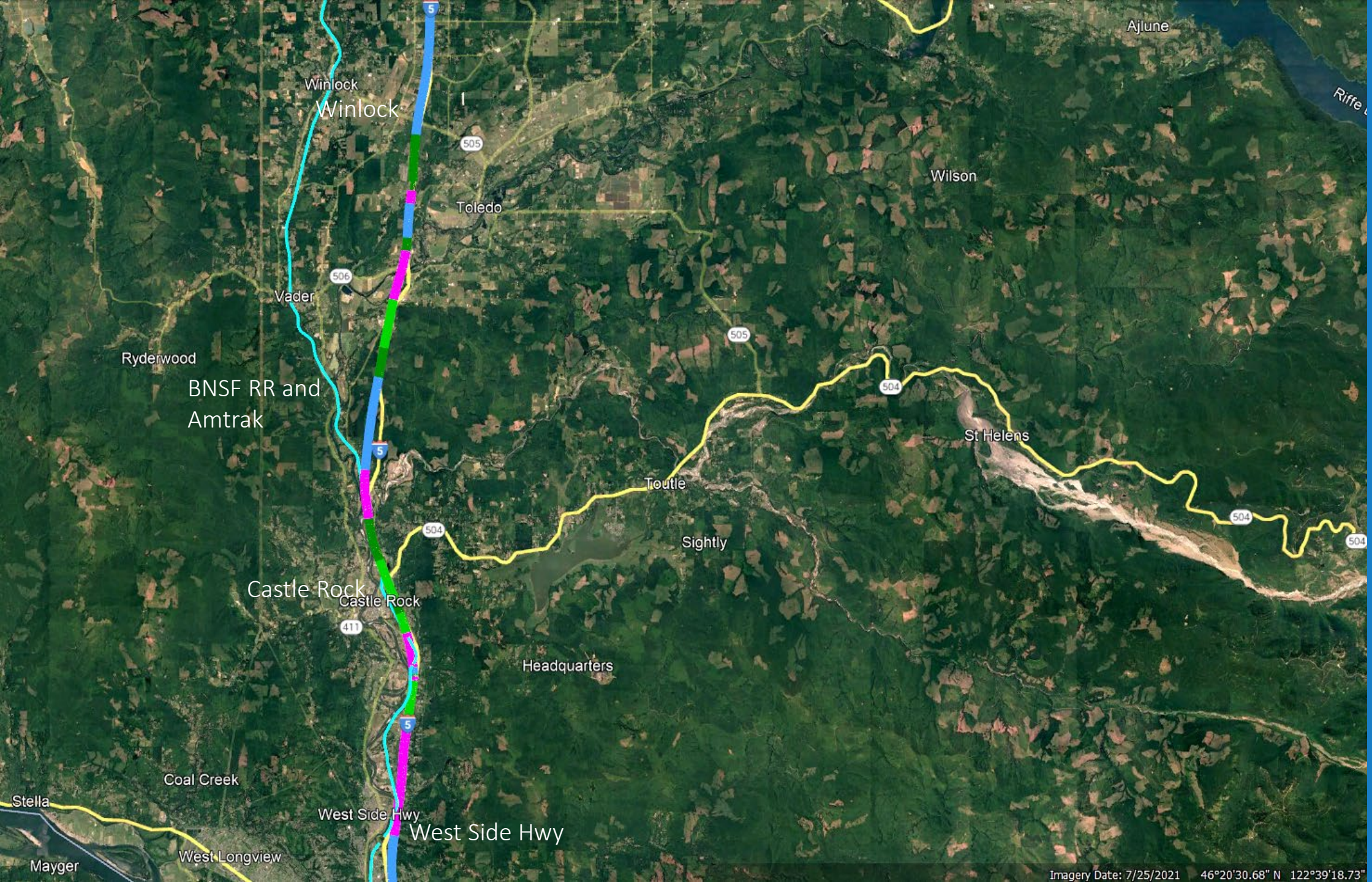
Access is available via elevators, escalators, and stairs.

CHSR Longview
Station Des by RN

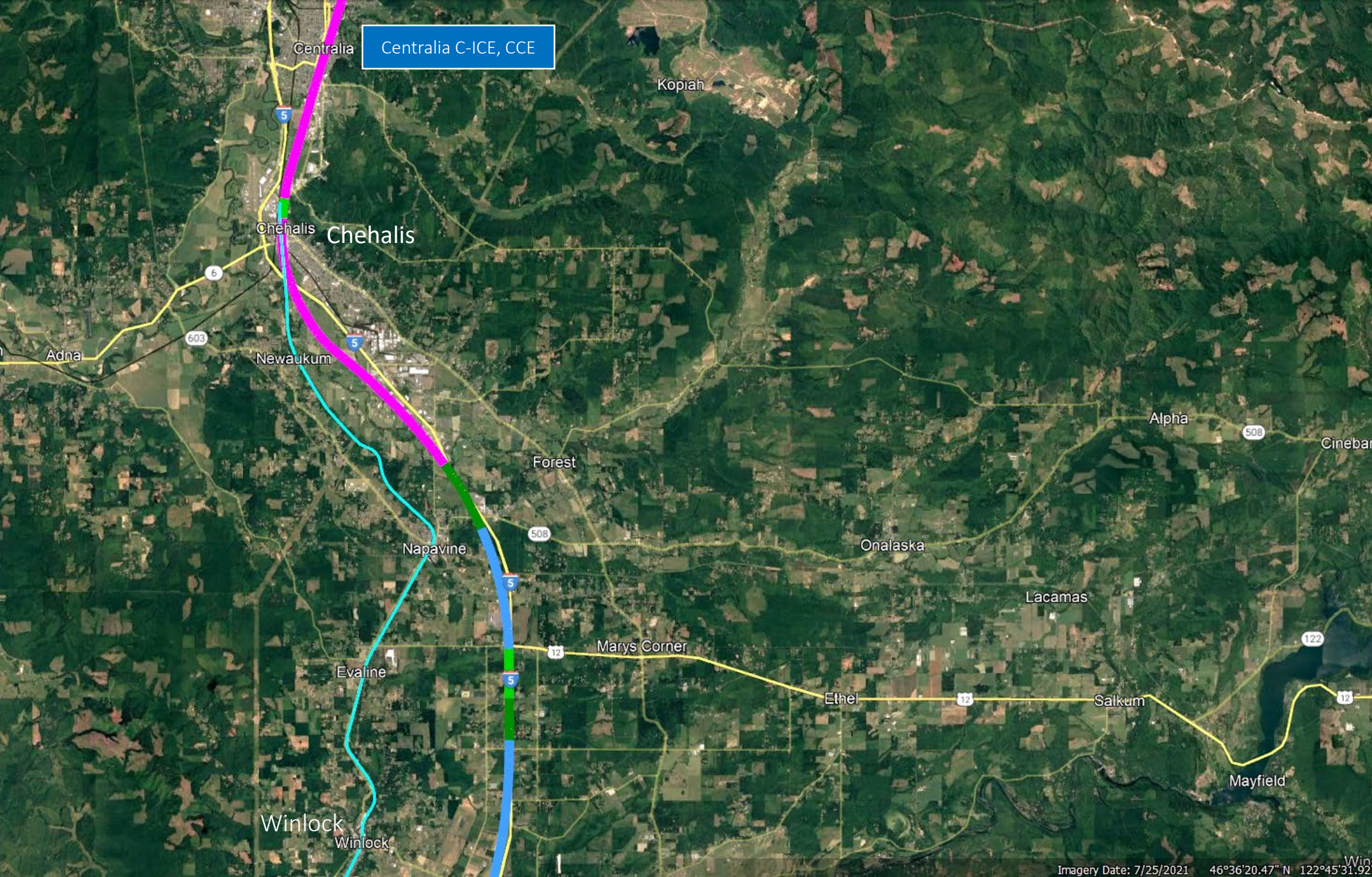


CHSR Corridor
between Kalama
and Longview
CHSR Station

This corridor
section has
flyovers, fills,
tunnels, and a
full-service
CHSR yard.

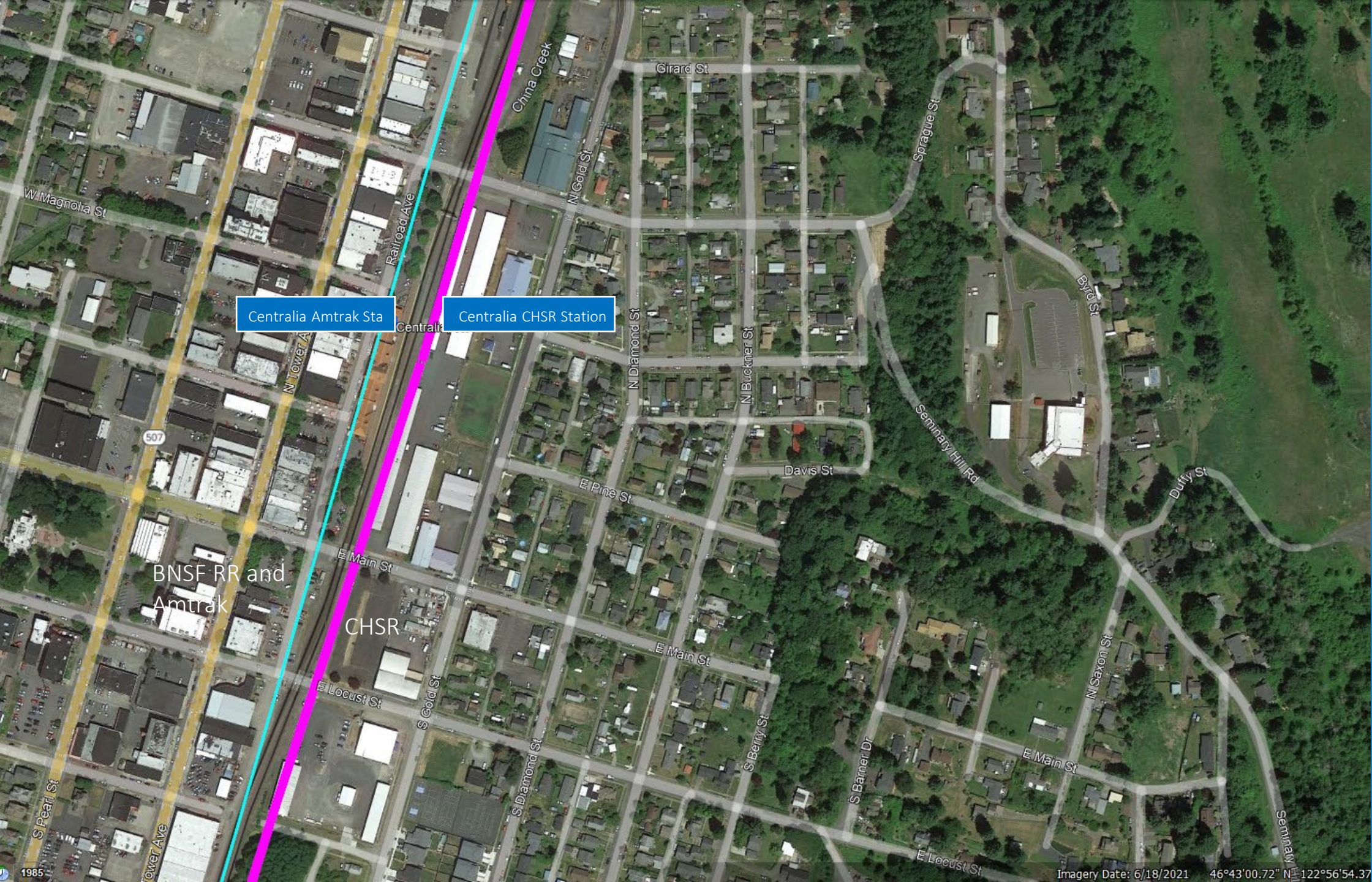


CHSR Corridor
between West
Side Hwy and
East of Winlock

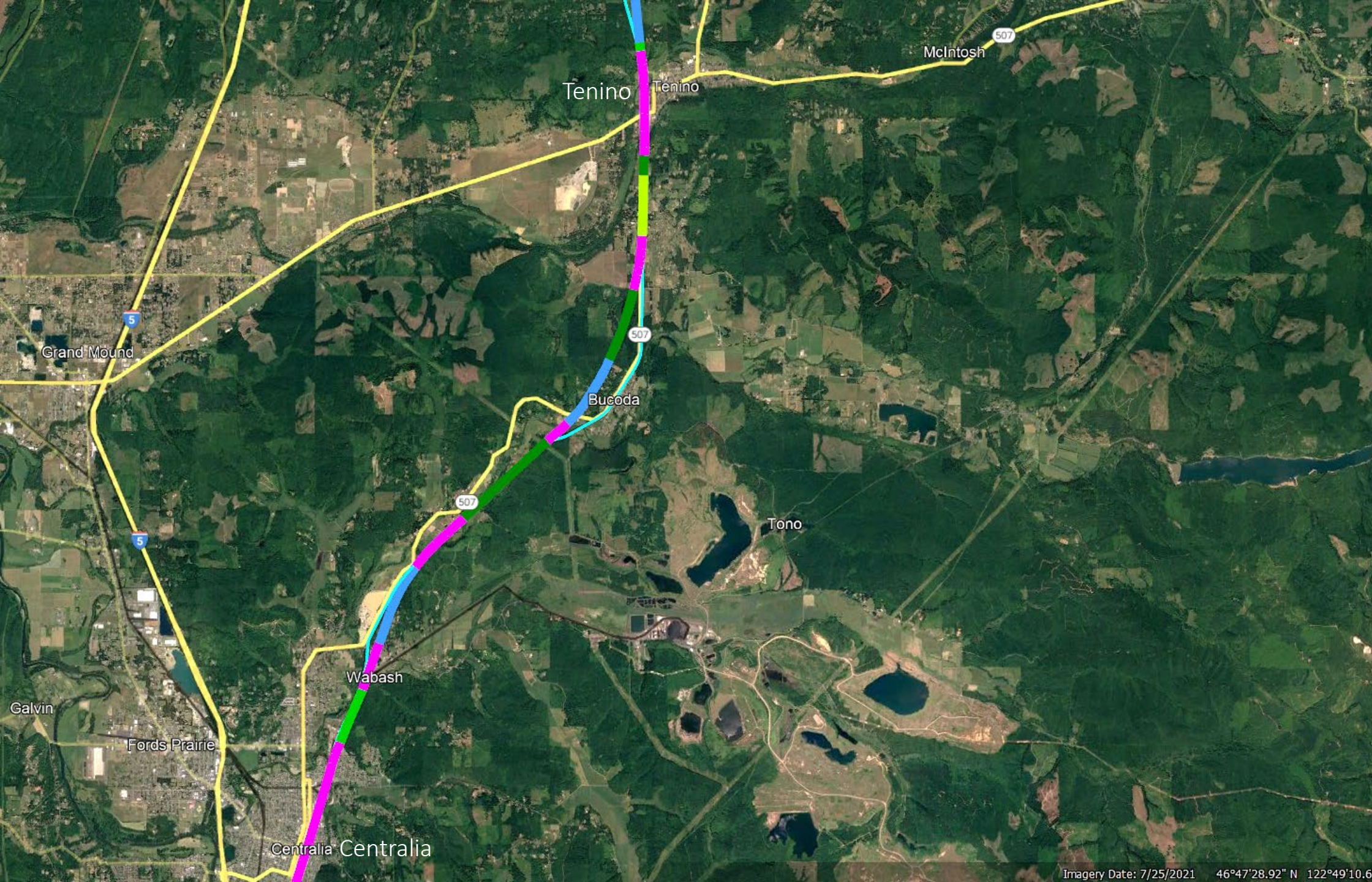


Centralia C-ICE, CCE

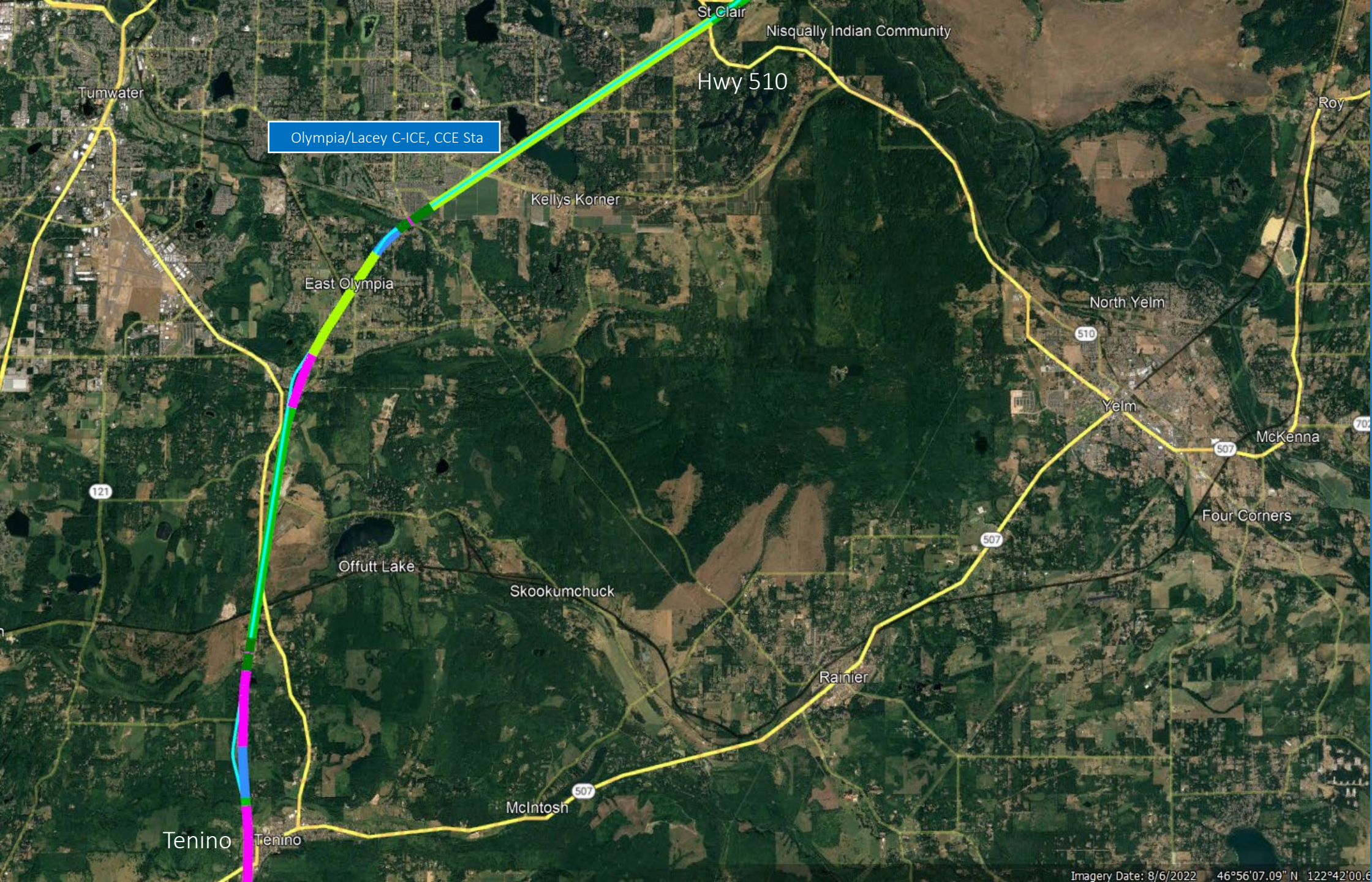
CHSR Corridor
between East
of Winlock and
Centralia



Cascadia High Speed Rail and Amtrak Station in Centralia



CHSR Corridor
between
Centralia and
Tenino



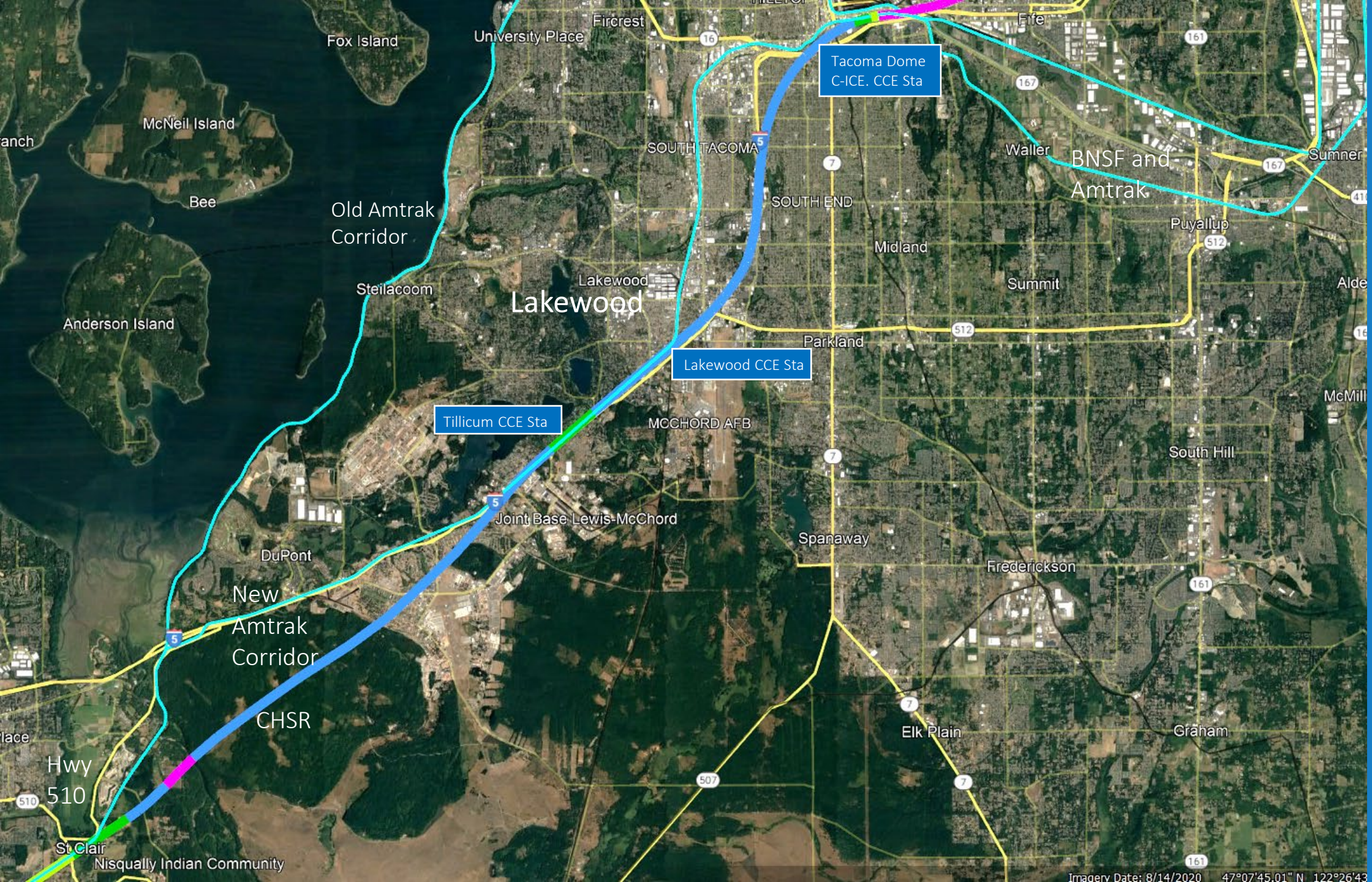
CHSR Corridor
between Tenino
and Hwy 510



Lacey/Olympia
Proposed
CHSR and
Existing
Amtrak
Stations

The CHSR
corridor is in a
widened cut
under Yelm
Hwy SE and at
the same level
as BNSF/Amtrak
tracks.

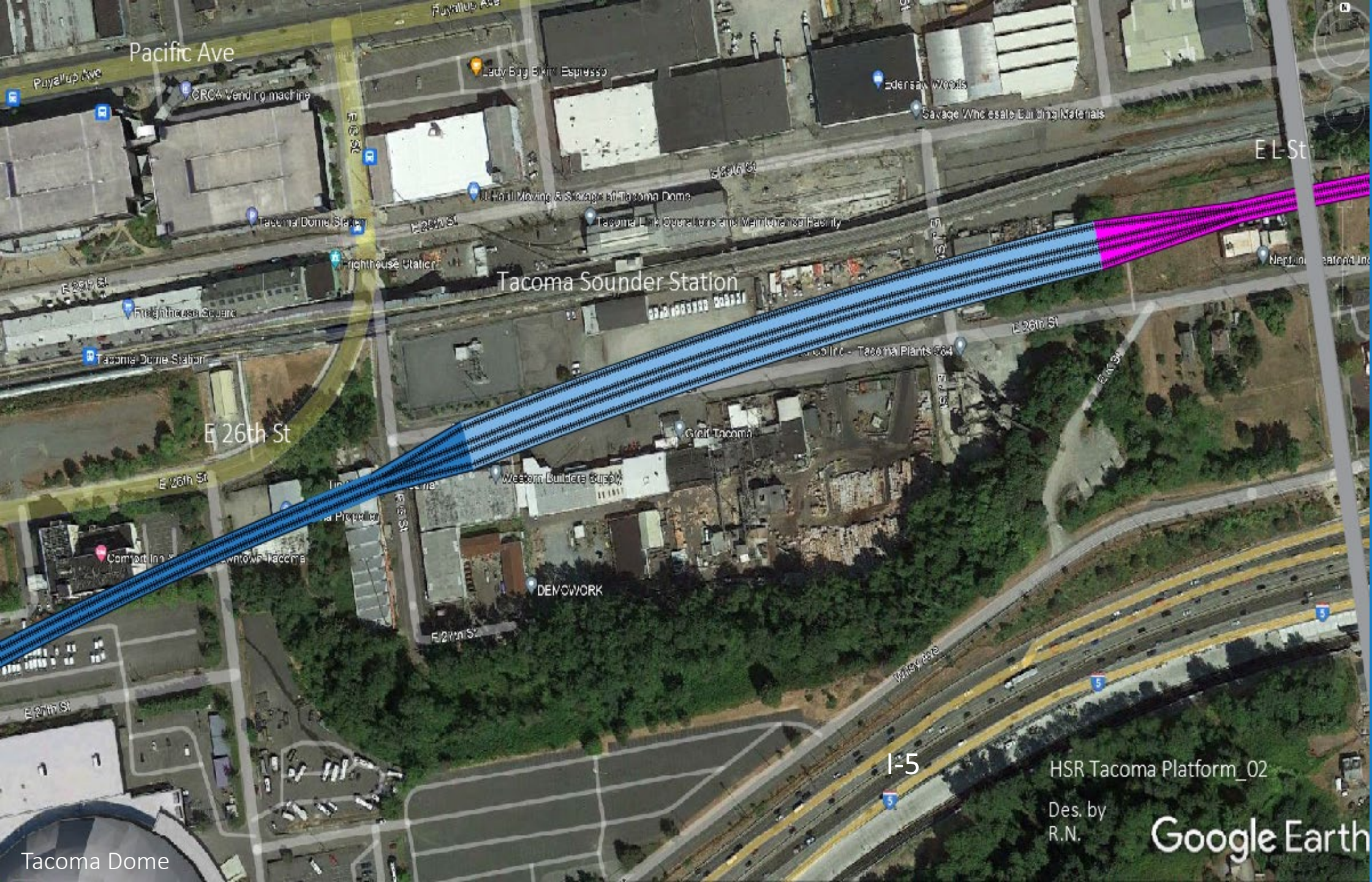
Farmland to the
east is a good
location to
rezone for a new
town center.



CHSR Corridor
between Hwy
510 and Tacoma

The existing BNSF
freight rail corridor
has many tight
curves that are
unsuitable for
CHSR trains.

The Tillicum
station is in the
cut-and-cover.
The Lakewood and
Tacoma stations
are in the
underground
tunnels.

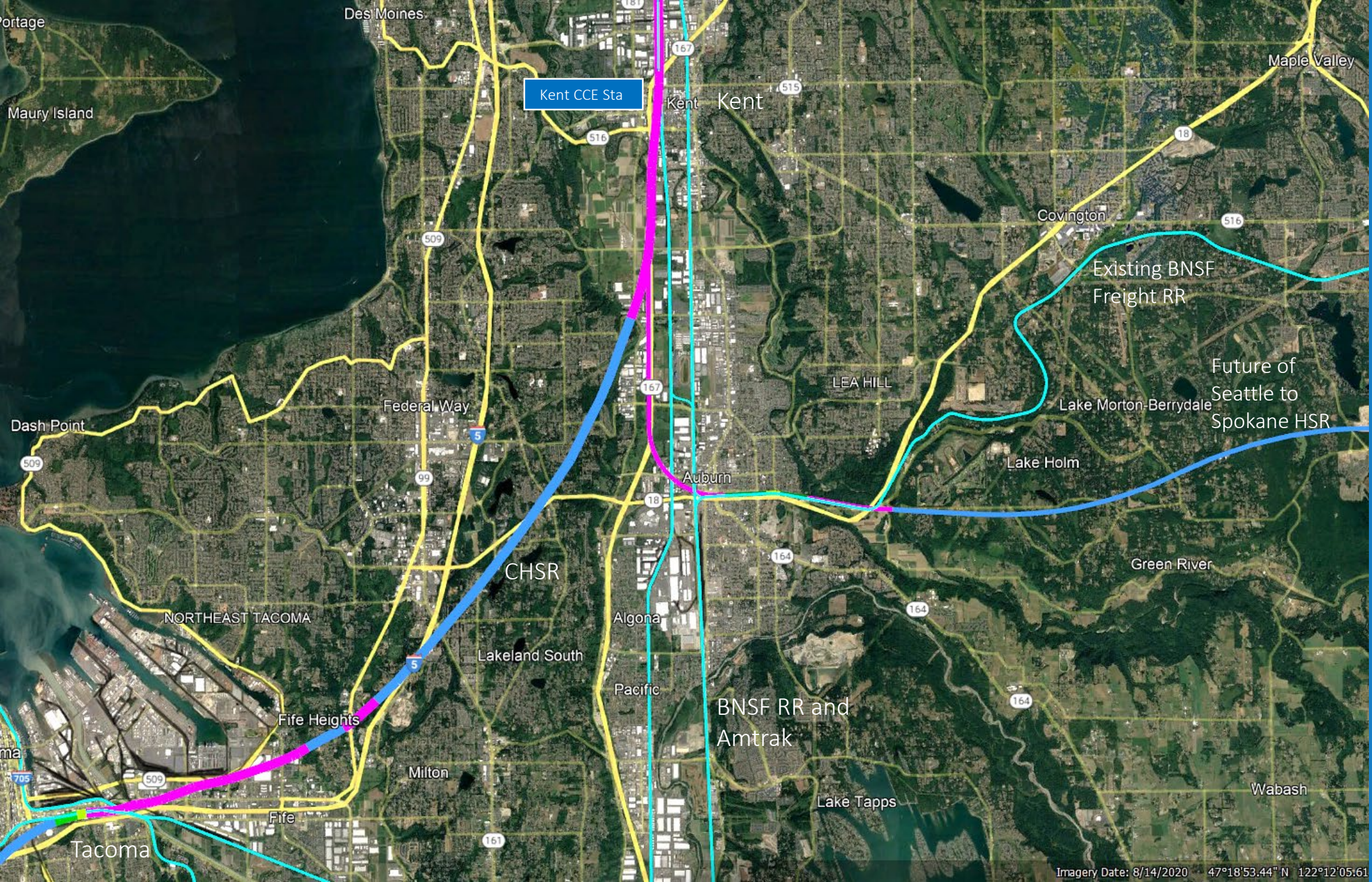


CHSR at the Tacoma Dome Station

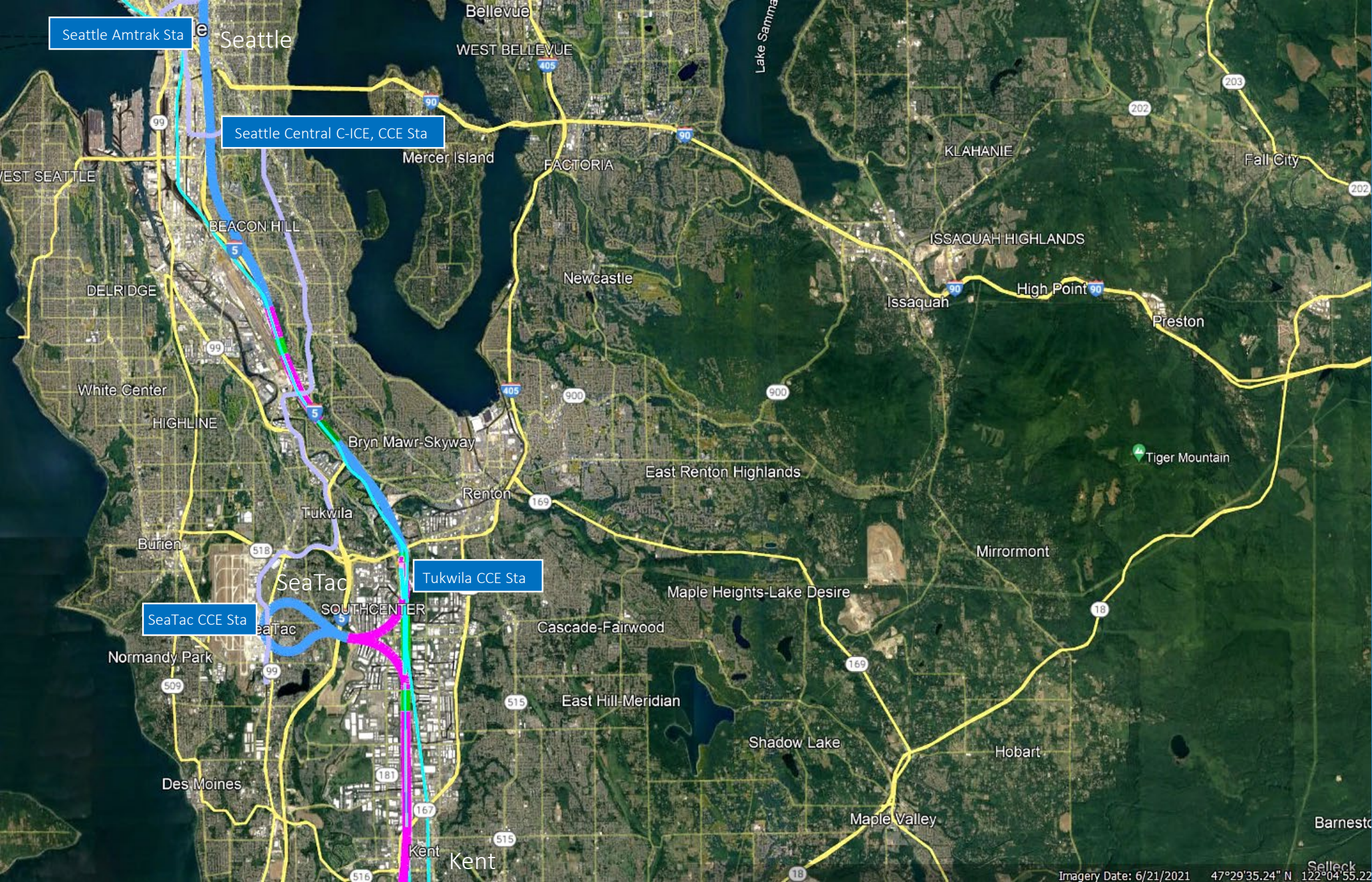
The CHSR C-ICE CCE corridor is part tunnel and part cut-and-cover.

The station is below the city streets to the west and a flyover to the east. The CHSR will underpass E L Street.

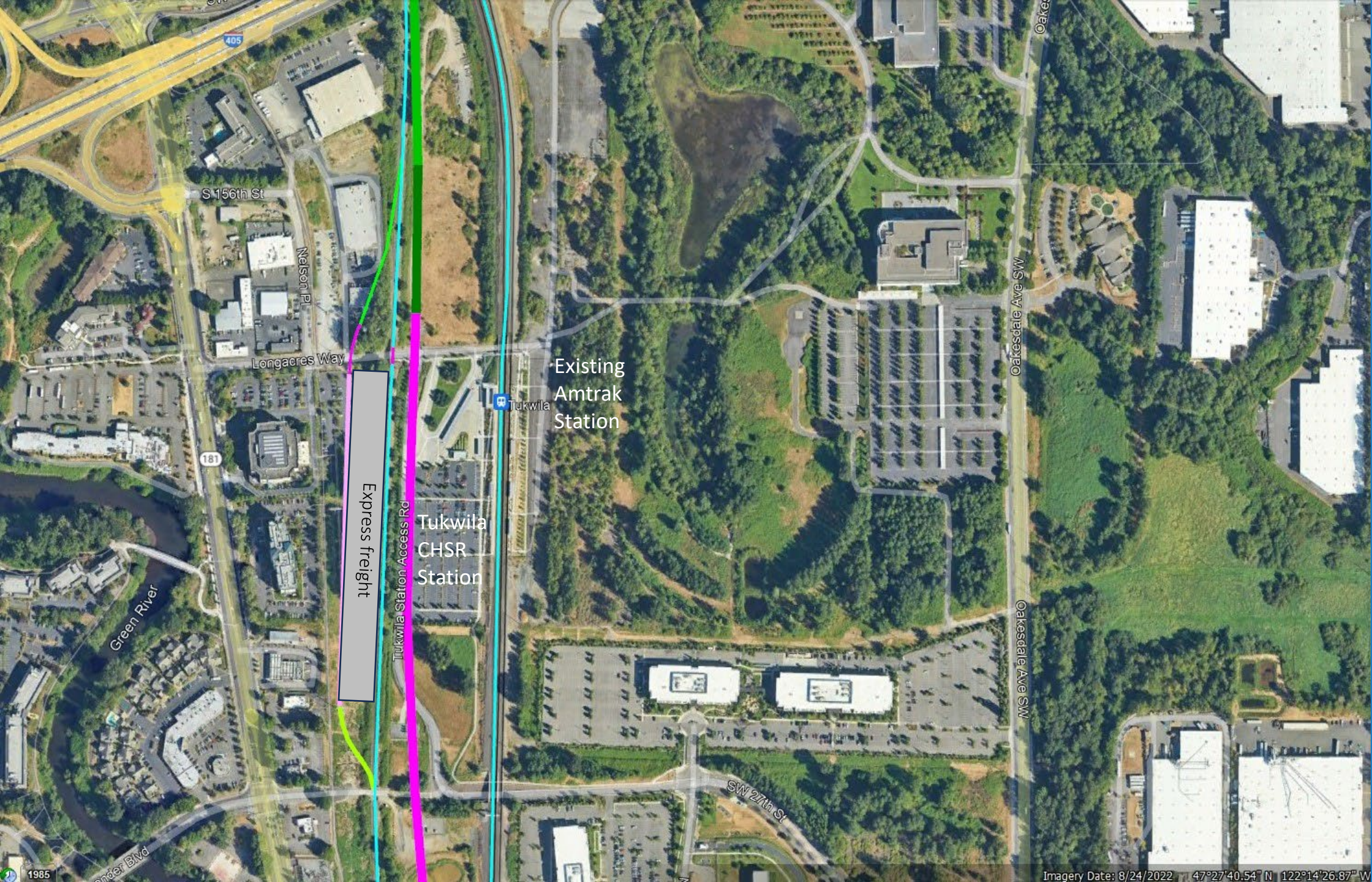
The land surrounding the new C-ICE CCE Station is well-suited for a town center. (see next page)



CHSR Corridor
between
Tacoma and
Kent



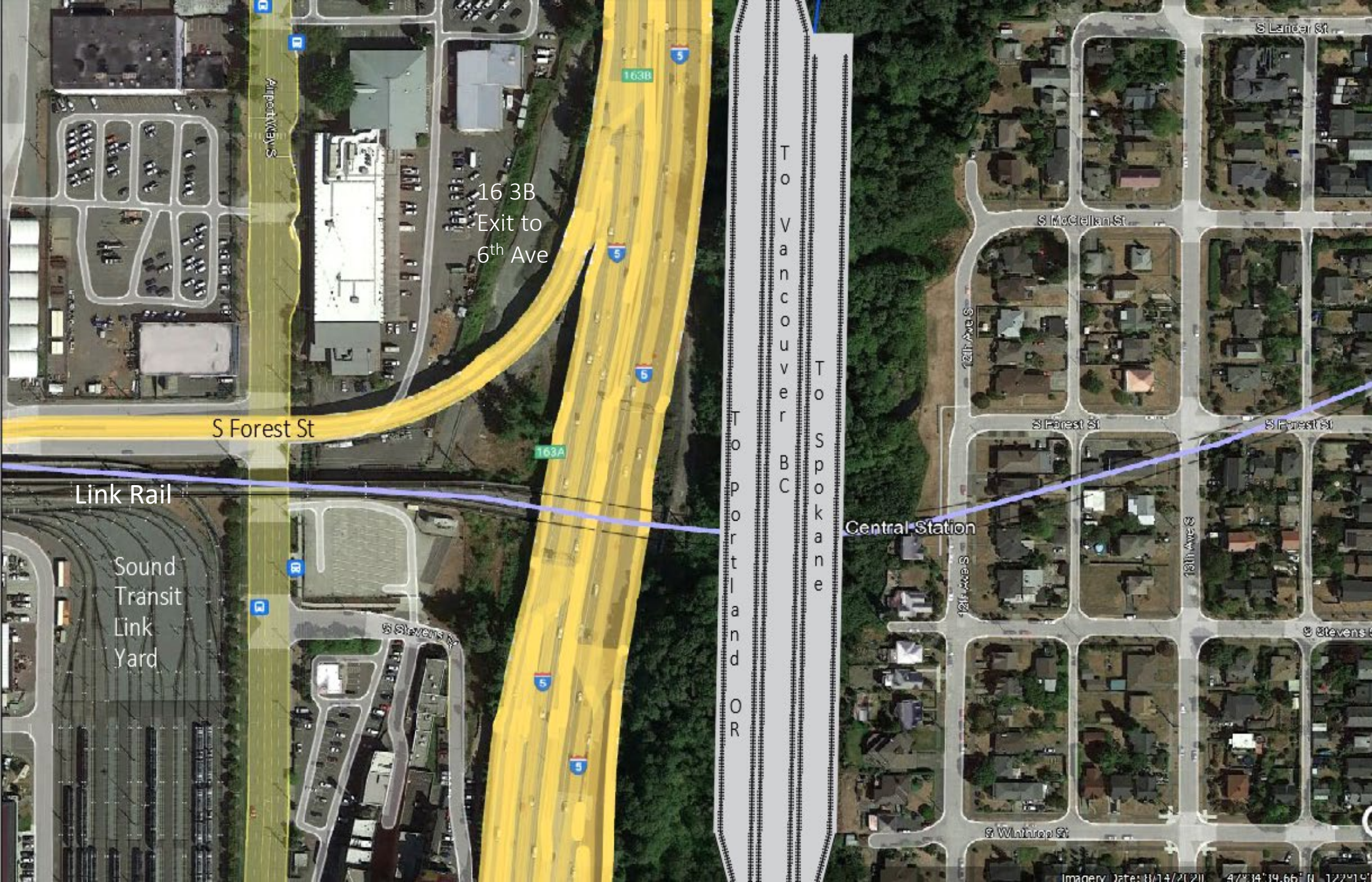
CHSR between
Kent and Seattle



HSR at Tukwila

Here we have express freight. Station to load/unload containers.

Not all trains will stop at Tukwila.



CHSR at the new Seattle Central Station

This station is below ground and above the Link-Rail Line.

The station has six tracks: two to Vancouver, BC, two to Portland, and two for a future Spokane connection.

Mixed-use development and parking are above the new underground Link Rail Station and CHSR Station.



RAIL TRANS
CHSR TO LIGH
RAIL TRANSFER

CHSR STATION

STATION
ENTRANCE

STATION
SQUARE

SOUTH FOREST STREET

LIGHT RAIL
TRANSIT YARD

LIGHT RAIL
4TH AVENUE
SOUTH LANDER STREET

VARIETY OF
HOUSING
OPTIONS

DEVELOPMENT BOUNDARY

15,300,000 SF

(2:1 FAR) = 10,200,000 SF

1:1 = 5.1 mil. SF

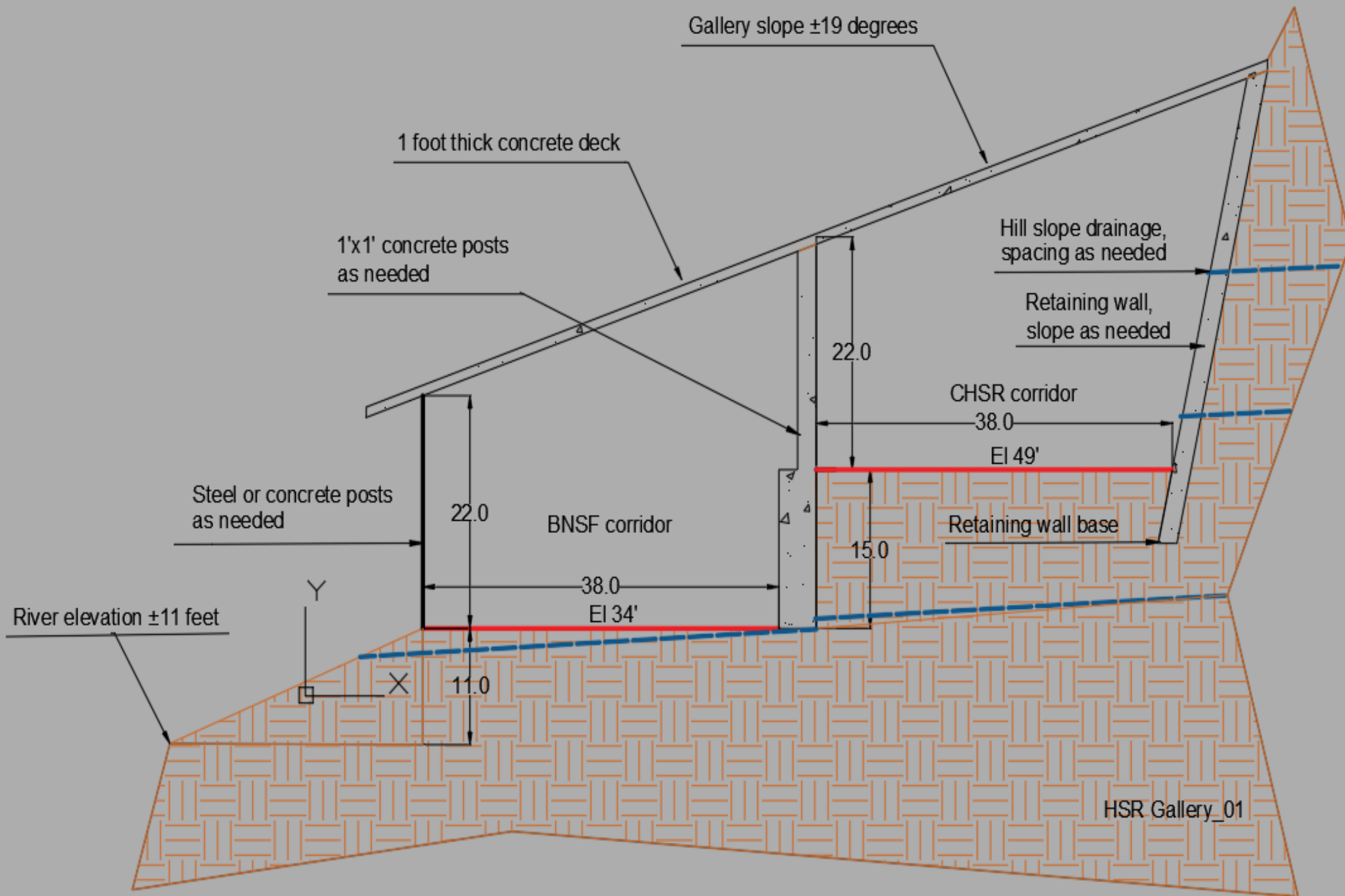
Portland CHSR Station to Olympia/Lacey CHSR Station Mileage and Times

Number One = Priority, Number two = Secondary Stops

Station to Station	CHR Corridor Milage	Estimated Travel Times
Portland-Vancouver, OR # 1	7.38 miles	7 minutes
Vancouver-NW 78 th St # 2	3.98 miles	5 minutes
78 th – Ridgefield # 2	10.28 miles	8 minutes
Ridgefield-Woodland # 2	5.84 miles	6 minutes
Woodland-Long View # 2	15.66 miles	10 minutes
Portland-Long view Direct # 1	43.14 miles	19 minutes
Long View-Centralia # 1	44.61 miles	18 minutes
Centralia-Olympia/Lacey # 1	24.26 miles	12 minutes
Via C-ICE with three stops	Portland-Olympia/Lacey	49 minutes
Via C-ICE with one-stop	Portland-Tacoma-Seattle Central	58 minutes

Olympia/Lacey CHSR Station to Seattle Central CHSR Station Mileage and Times

Station to Station	CHSR Corridor Milage	Estimated Travel Times
Olympia/Lacey-Tillicum	15.22 Miles	10 minutes
Tillicum-Lakewood	2.66 Miles	4 minutes
Lakewood-Tacoma Dome Sta	7.60 Miles	7 minutes
Tacoma Dome Sta-Kent	13.85 Miles	9 minutes
Kent-Tukwila	5.81 Miles	7 minutes
Tukwila-Seattle Central	8.81 Miles	7 minutes
Transportation Mode Comparison	Stop to Stop	Estimated Travel Time
Portland-Seattle King Station	187 miles (Amtrak)	3hr 45 minutes
Portland-Seattle	173.7 miles (Automobile)	2hr 56 minutes
Portland-Seattle Central Station	167 miles (CHSR)	58 minutes



Stabilization Plan, Ridgefield Section Plan, and Sounder Corridor between Seattle and Everett

The slope-drainage pipes prevent landslides.

Falling trees and debris will slide over the gallery roof without damaging the rail tracks.



CHSR Wildlife Under Crossing as Needed

This is an example of providing wildlife under passing. The underpass has open access with trees, shrubs, and greenery to copy the approach sides.

Freight Rail

CHSR

HSR wildlife underpass



CHSR Wildlife Crossing as Needed

This is an example to provide wildlife overpassing. The overpass is fenced with trees, shrubs, and greenery to copy the approach sides.

CHSR Miles between Portland and Centralia, WA

On Ground	Cut/Fill	Flyover or Bridges	Tunnels or Underpass
0.23 Mi Po_013 BNSF *	0.27 Mi Po_010 new	0.70 Mi Po_001 new	1.10 Mi Po_003 new
1.16 Mi Po_020 BNSF	0.12 Mi Po_011 new	3.00 Mi Po_002 new	0.10 Mi Po_008 new
		3.82 Mi Po_004 UPRR/BNSF	
	0.10 Mi Po_015 BNSF	1.32 Mi Po_006 BNSF	1.11 Mi Po_012 new
	0.57 Mi Po_016 BNSF	0.79 Mi Po_007 BNSF *	0.51 Mi Po_014 new
	1.00 Mi Po_018 BNSF	0.20 Mi Po_009 new	0.56 Mi Po_017 new
	2.10 Mi Po_021 BNSF *	0.39 Mi Po_019 BNSF	0.79 Mi Po_025 new
	0.44 Mi Po_022 new	0.17 Mi Po_020a BNSF	0.10 Mi Po_027 new
	0.16 Mi Po_022b new	0.10 Mi Po_022a new	2.82 Mi Po_029 new
	0.19 Mi Po_022d new	0.12 Mi Po_022c new	4.43 Mi Po_034 new
	0.45 Mi Po_023 BNSF	0.10 Mi Po_022e new	0.10 Mi Po_036 I-5
	2.18 Mi Po_031 BNSF *	0.13 Mi Po_024 new	1.00 Mi Po_039 new
	0.39 Mi Po_033 new	0.12 Mi Po_026 new	0.84 Mi Po_043 new
	1.14 Mi Po_035a new	0.10 Mi Po_028 new	2.00 Mi Po_045 new
	0.56 Mi Po_038 I-5	0.51 Mi Po_030 new	0.20 Mi Po_050 new
	0.53 Mi Po_041 new	4.51 Mi Po_032 new	2.70 Mi Po_058 new
	1.17 Mi Po_047 I-5	0.99 Mi Po_037 I-5	0.98 Mi Po_063 I-5
	0.10 Mi Po_049 new	1.92 Mi Po_040 I-5 *	3.47 Mi Po_068 new
	0.60 Mi Po_052 new	1.48 Mi Po_042 new *	2.42 Mi Po_071 new
	0.39 Mi Po_053 I-5	0.76 Mi Po_044 new *	
	1.25 Mi Po_054 I-5	3.35 Mi Po_046 I-5 *	
	0.71 Mi Po_055 I-5	0.13 Mi Po_048 new	
	0.55 Mi Po_056 I-5	1.00 Mi Po_051 new	
	0.87 Mi Po_059 I-5	1.41 Mi Po_057 new *	
	1.42 Mi Po_060 I-5 *	1.47 Mi Po_061 new	
	0.38 Mi Po_062 I-5	0.39 Mi Po_064 I-5	
	0.26 Mi Po_065 I-5	6.00 Mi Po_073 new	
	0.80 Mi Po_066 new	3.13 Mi Po_075 BNSF	
	0.64 Mi Po_067 new		
	0.83 Mi Po_069 I-5		
	0.97 Mi Po_070 I-5		
	1.45 Mi Po_072 I-5		
	0.39 Mi Po_074 new		
1.39 Miles 1.58 %	22.98 Miles 26.20 %	38.11 Miles 43.45 %	25.23 Miles 28.76 %
			87.71 Miles Total HSR
			93 Miles Total Amtrak

New and existing Right of Way (RoW)

49.47 miles in a new corridor	38.24 miles in an existing right of way, BNSF, or Hwy
56.40 % of this CHSR RoW must be acquired	43.60% may be shared
Tunnel miles may be excluded from the RoW purchase.	

* = Some deviations, as some miles are aside from the named corridor segment.

CHSR Miles between Centralia, WA, and Seattle Central Station

On Ground	Cut/Fill	Flyover or Bridges	Tunnels or Underpass
0.77 Mi Po_086 Hwy 507	0.74 Mi Po_077 new	1.34 Mi Po_076 BNSF	1.14 Mi Po_079 new
1.56 Mi Po_097 BNSF	1.45 Mi Po_081 BNSF	0.62 Mi Po_078 new	0.96 Mi Po_083 new
2.42 Mi Po_102 BNSF	0.94 Mi Po_084 new	0.82 Mi Po_080 BNSF *	0.68 Mi Po_090 new
0.22 Mi Po_102b BNSF	0.26 Mi Po_087 Hwy 507	0.35 Mi Po_082 new	0.55 Mi Po_098 new
0.43 Mi Po_102d BNSF	0.11 Mi Po_089 new	0.72 Mi Po_085 new	0.91 Mi Po_104 new
	0.24 Mi Po_092 BNSF	1.33 Mi Po_088 BNSF *	8.59 Mi Po_106 new
	0.20 Mi Po_094 BNSF	1.00 Mi Po_091 new	1.66 Mi Po_108 Pac Hwy
	3.22 Mi Po_095 BNSF	0.05 Mi Po_093 BNSF	3.67 Mi Po_109 PC/I-5
	0.21 Mi Po_099 new	0.79 Mi Po_096 new	3.58 Mi Po_110 new *
	0.34 Mi Po_101 BNSF	0.05 Mi Po_100 BNSF	0.57 Mi Po_114 new
	1.74 Mi Po_103 BNSF *	0.10 Mi Po_102a BNSF	6.53 Mi Po_116 new
	1.00 Mi Po_107 I-5	1.13 Mi Po_102c BNSF	2.42 Mi Po_122 new
	0.32 Mi Po_111 new	0.71 Mi Po_105 new	3. 51 Mi Po_127 new *
	1.48 Mi Po_118 SP&S	0.77 Mi Po_112 new	
	1.10 Mi Po_119 SP%S	2.64 Mi Po_113 new	
	0.10 Mi Po_120 new	0.59 Mi Po_115 new	
		6.10 Mi Po_117 new, Hwy 167 and former SP&S	
	0.12 Mi Po_121 new	1.42 MI Po_124 I-5, BNSF	
	0.53 Mi Po_123 I-5, BNSF	0.59 Mi Po_126 I-5, BNSF	
	0.33 Mi Po_125 I-5, BNSF		
5.40 Miles 7.13 %	14.43 Miles 19.06 %	21.12 Miles 27.89 %	34.77 Miles 45.93 %
			75.72 Miles Total CHSR
			(79.72 via SeaTac) CHSR
		SeaTac Corridor	
		1.64 Mi Po_127a3 new	
			4.00 Mi Po_127a2 new
		2.11 Mi Po_127a1 new	
		3.75 Miles SeaTac CHSR	4 Miles
			7.75 Miles Total
			94 Miles Amtrak

New and existing Right of Way (RoW) declaration.

39.84 miles in a new corridor	39.88 miles in an existing right of way, BNSF, or Hwy
49.98 % of this CHSR RoW must be acquired.	50.03 % may be shared
Tunnel miles may be excluded from RoW purchase.	

* = Some deviation, as some miles are aside from the named corridor segment.

CHSR corridor radius data between Portland, OR, and Seattle Central, WA

Portland Seattle_04
☒ Cir Po_01 R 1175' *
☐ Cir Po_01 R 1175'
☒ Cir Po_02 R 1300' *
☐ Cir Po_02 R 1300'
☒ Cir Po_03 R 800' *
☐ Cir Po_03 R 800'
☒ Cir Po_04 R 940' *
☐ Cir Po_04 R 940'
☒ Cir Po_05 R 2400' *
☐ Cir Po_05 R 2400'
☒ Cir Po_06 R 3800' *
☐ Cir Po_06 R 3800'
☒ Cir Po_07 R 3400' *
☐ Cir Po_07 R 3400'
☒ Cir Po_08 R 5500' *
☐ Cir Po_08 R 5500'
☒ Cir Po_09 R 3300' *
☐ Cir Po_09 R 3300'
☒ Cir Po_10 R 6500' *
☐ Cir Po_10 R 6500'
☒ Cir Po_11 R 2850' *
☐ Cir Po_11 R 2850'
☒ Cir Po_12 R 2770' *
☐ Cir Po_12 R 2770'
☒ Cir Po_13 R 3150' *
☐ Cir Po_13 R 3150'
☒ Cir Po_14 R 10900' *
☐ Cir Po_14 R 10900'
☒ Cir Po_15 R 27900' *
☐ Cir Po_15 R 27900'

☐ Cir Po_16 R 19800'
☒ Cir Po_17 R 21200' *
☐ Cir Po_17 R 21700'
☒ Cir Po_18 R 17400' *
☐ Cir Po_18 R 17400'
☒ Cir Po_19 R 20200' *
☐ Cir Po_19 R 20200'
☒ Cir Po_20 R 28300' *
☐ Cir Po_20 R 28300'
☒ Cir Po_21 R 28100' *
☐ Cir Po_21 R 28100'
☒ Cir Po_22 R 25300' *
☐ Cir Po_22 R 25300'
☒ Cir Po_23 R 37300' *
☐ Cir Po_23 R 37300'
☒ Cir Po_24 R 27600' *
☐ Cir Po_24 R 27600'
☒ Cir Po_25 R 27300' *
☐ Cir Po_25 R 27300'
☒ Cir Po_25a R 24900' *
☐ Cir Po_25a R 24900'
☒ Cir Po_26 R 18500' *
☐ Cir Po_26 R 18500'
☒ Cir Po_27 R 19300' *
☐ Cir Po_27 R 19300'
☒ Cir Po_28 R 22100' *
☐ Cir Po_28 R 22100'
☒ Cir Po_29 R 19500' *
☐ Cir Po_29 R 19500'
☒ Cir Po_30 R 30000' *
☐ Cir Po_30 R 30000'
☒ Cir Po_31 R 29700' *
☐ Cir Po_31 R 29700'

☒ Cir Po_32 R 32300' *
☐ Cir Po_32 R 32300'
☒ Cir Po_33 R 32100' *
☐ Cir Po_33 R 32100'
☒ Cir Po_34 R 32200' *
☐ Cir Po_34 R 32200'
☒ Cir Po_35 R 18900' *
☐ Cir Po_35 R 18900'
☒ Cir Po_36 R 13300' *
☐ Cir Po_36 R 13300'
☒ Cir Po_37 R 17500' *
☐ Cir Po_37 R 17500'
☒ Cir Po_38 R 20000' *
☐ Cir Po_38 R 20000'
☒ Cir Po_39 R 20000' *
☐ Cir Po_39 R 20000'
☒ Cir Po_40 R 25600' *
☐ Cir Po_40 R 25600'
☒ Cir Po_41 R 15900' *
☐ Cir Po_41 R 15900'
☒ Cir Po_42 R 25000' *
☐ Cir Po_42 R 25000'
☒ Cir Po_43 R 28400' *
☐ Cir Po_43 R 28400'
☒ Cir Po_44 R 38600' *
☐ Cir Po_44 R 38600'
☒ Cir Po_45 R 15000' *
☐ Cir Po_45 R 15000'
☒ Cir Po_46 R 13300' *
☐ Cir Po_46 R 13300'
☒ Cir Po_47 R 4230' *
☐ Cir Po_47 R 4230'

☒ Cir Po_48 R 4300' *
☐ Cir Po_48 R 4300'
☒ Cir Po_49 R 25200' *
☐ Cir Po_49 R 25200'
☒ Cir Po_50 R 35000' *
☐ Cir Po_50 R 35000'
☒ Cir Po_51 R 4500' *
☐ Cir Po_51 R 4500'
☒ Cir Po_52 R 2600' *
☐ Cir Po_52 R 2600'
☒ Cir Po_53 R 2400' *
☐ Cir Po_53 R 2400'
☒ Cir Po_54 R 3670' *
☐ Cir Po_54 R 3670'
☒ Cir Po_55 R 9700' *
☐ Cir Po_55 R 9700'
☒ Cir Po_56 R 19600' *
☐ Cir Po_56 R 19600'
☒ Cir Po_57 R 9800' *
☐ Cir Po_57 R 9800'
☒ Cir Po_58 R 14600' *
☐ Cir Po_58 R 14600'

The short radii near the CHSR stations are tolerable because all trains stop there.

3.8 miles south of the Centralia CHSR station is the Chehalis CHSR curve, with a radius of 13,300 ft and a speed limit of 160 mph. This through-train speed reduction can be managed by the train operator, who has onboard signal information. Increasing the curve radius is challenging.

Cir Po_ numbers with * are near stations.

Please see below the educational videos of tunnel-boring machines for different geology. (Skip advertising)

(25) TBM Variable (25) TBM Variable Density® EN - YouTube® EN - YouTube

Tunnel Boring Machine (TBM)
animation. - YouTube