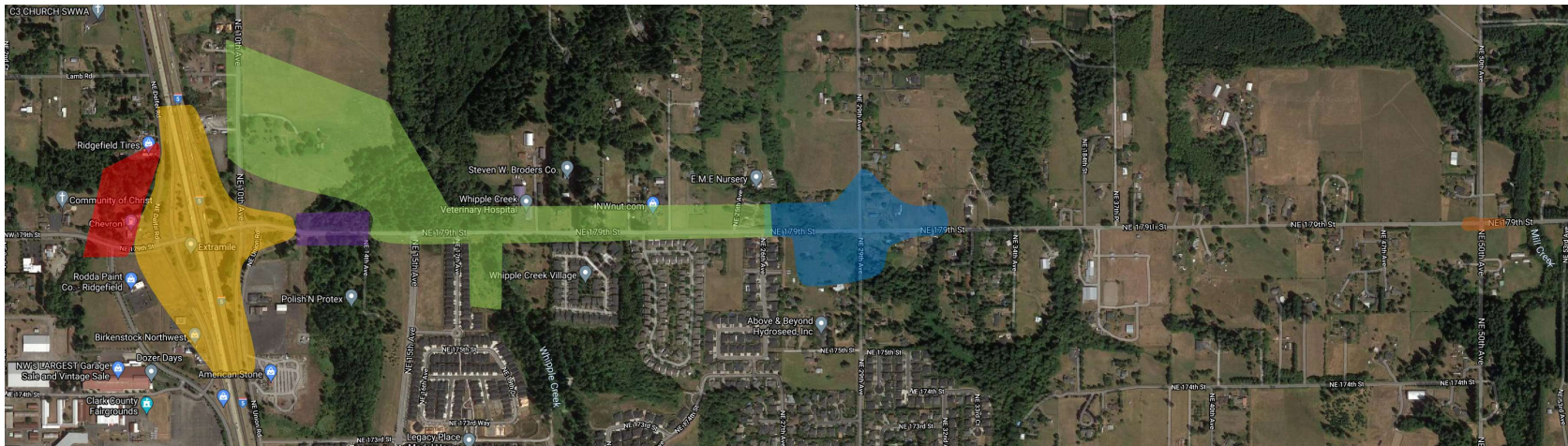


# Project Background

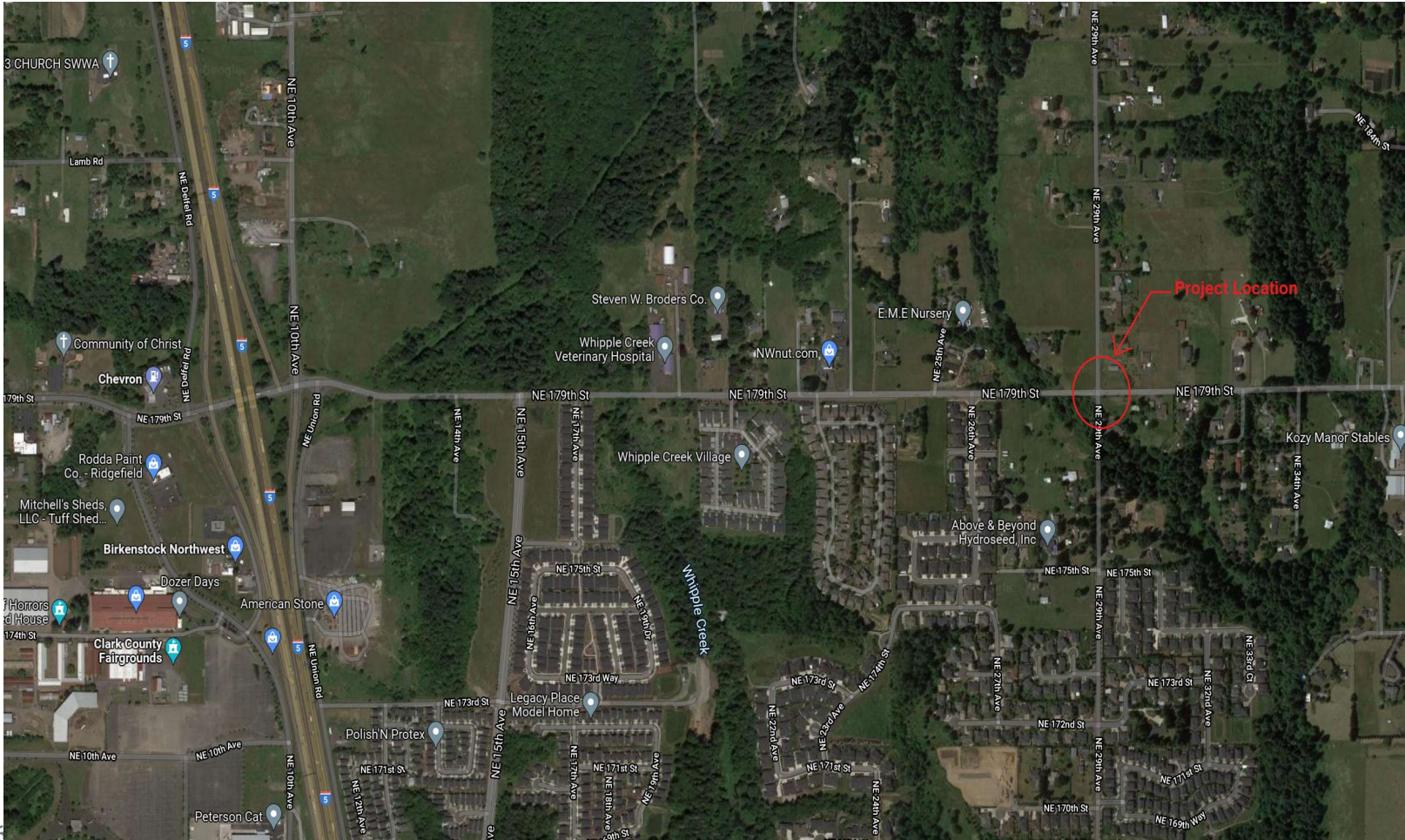
---

- Recent Corridor Overview Process
  - Construction Sequencing
  - Detour Sequencing
  - Annual Funding Strategy



# Vicinity Map

- NE 179th St. & NE 29th Ave.



## Project Background

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- This project will entail the reconstruction of the existing single lane all-way stop controlled intersection to a multi-lane (single-lane striped) roundabout.
- These upgrades are necessary to prevent concurrency failure and accommodate additional traffic volumes associated with future residential and commercial growth in the area.
- Clark Regional Wastewater District and Clark Public Utilities will be expanding and improving their sanitary and water systems as part of this project.
- Improvements to the County's stormwater system is occurring with this project.



## Presentation Outline

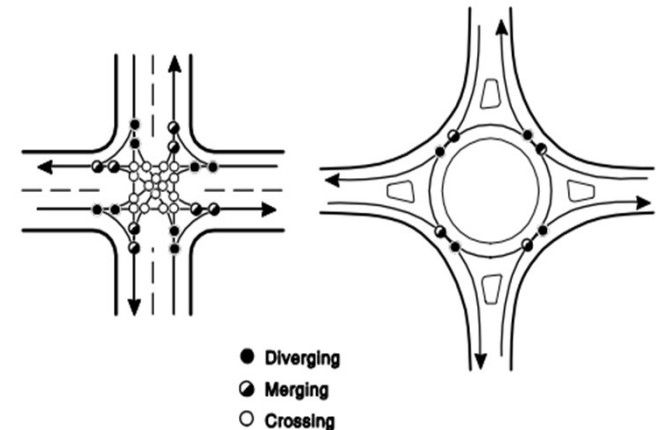
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- Roundabout vs Signalized Intersection
- Lane configuration, interim and ultimate
- Traffic Visualization
- Property Impacts
- Bridge vs Culvert at Stream Crossings
- Environmental Impact and Mitigation
- Intersection and Corridor Aesthetics



# Roundabout vs Signalized Intersection

- Safety – Roundabout projected to have **3x less** fatal and injury crashes than signal
- Less queuing, congestion with roundabout option (LOS A vs LOS C)
- Life Cycle costs include safety, vehicle delay, construction costs, and maintenance
  - Roundabout option would be a ~\$5 million lifetime savings over signal
- Documentation summarized in an Intersection Control Evaluation Report



# Roundabout Lane Configuration

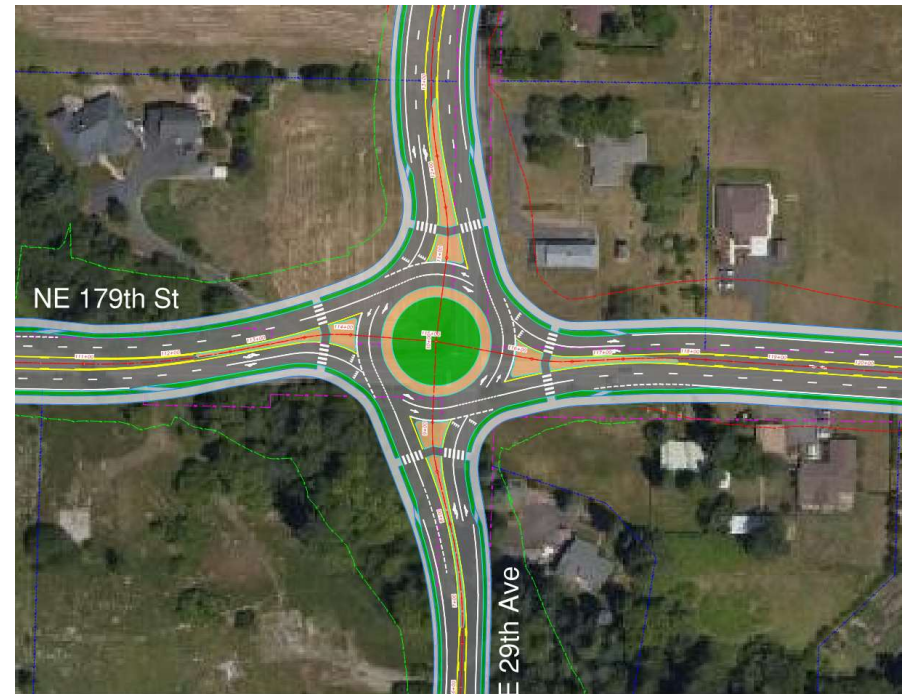
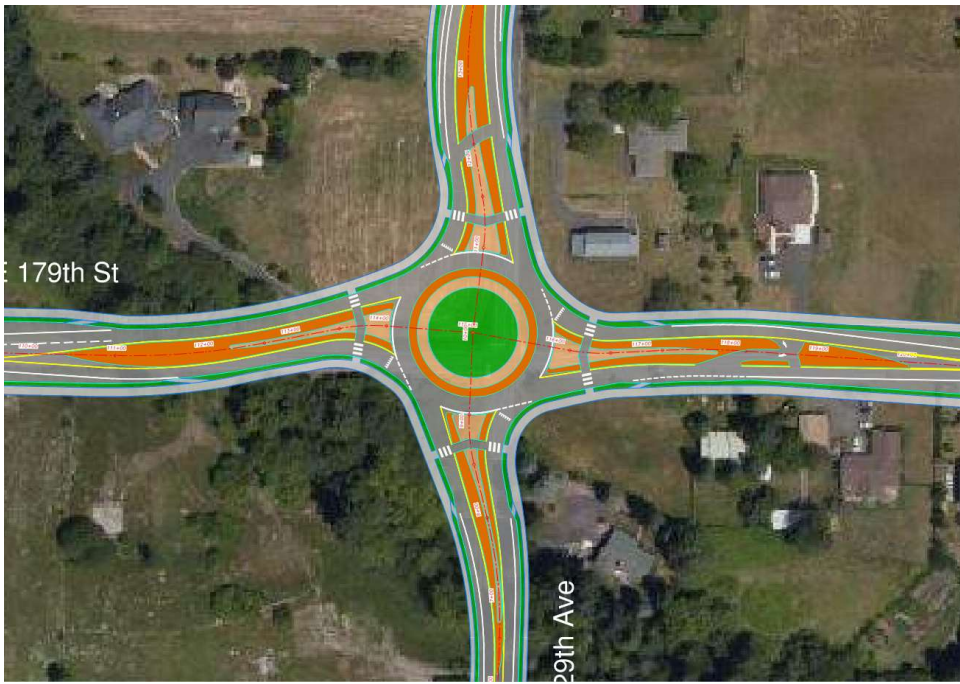
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- Initially Constructed as a single lane roundabout
- Constructed footprint large enough to widen to two lane roundabout
- Traffic demand dictates when widening will occur
- Current forecast 2047, interim design projected to last 20+ years



# Interim – Single Lane, Future – Double Lane

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# Traffic Simulation

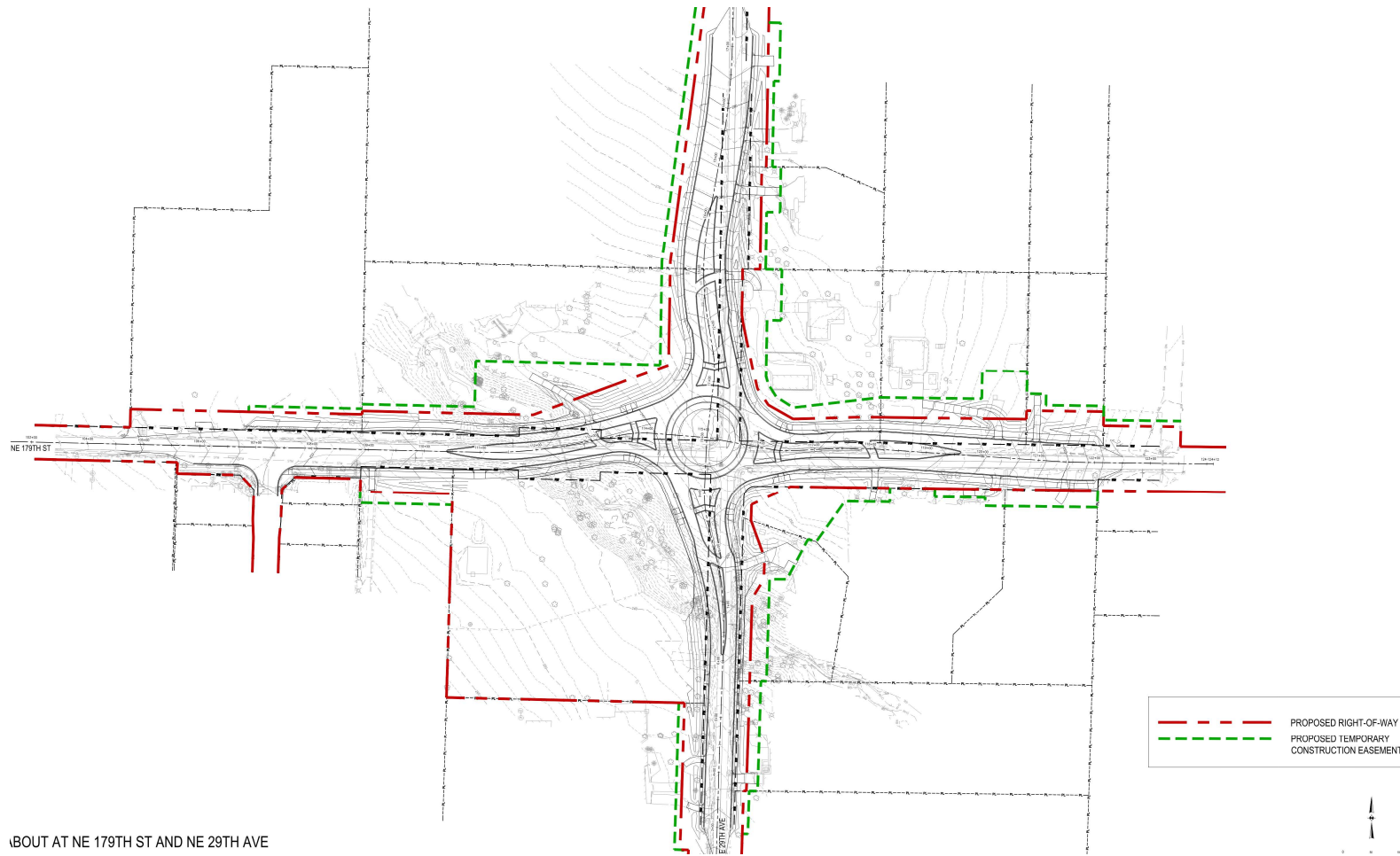
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- Opening year interim roundabout design
- [Interim Video](#)
- 2047 ultimate design
- [Ultimate Video](#)





# Property Impacts



ABOUT AT NE 179TH ST AND NE 29TH AVE

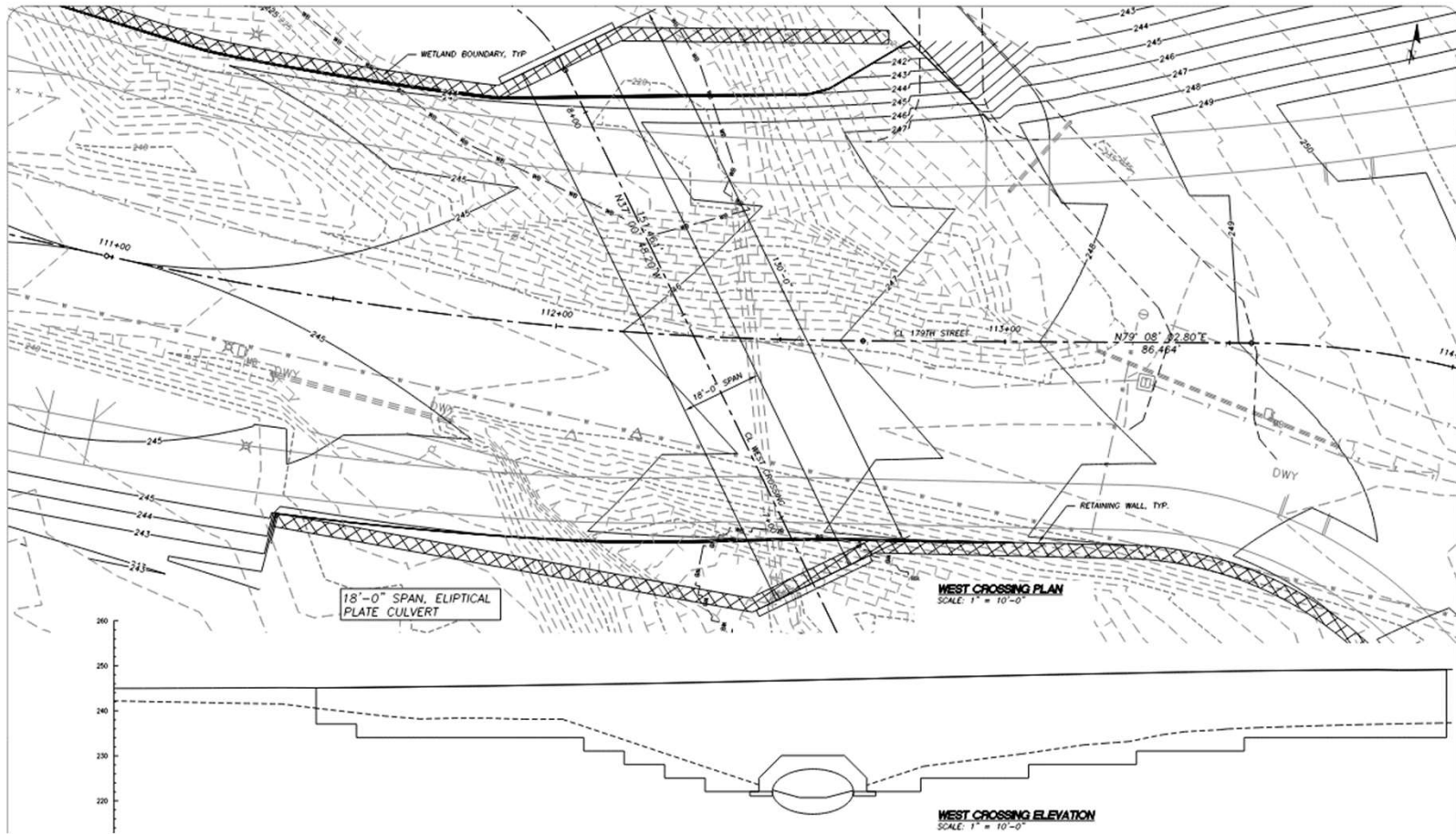


# Bridge vs Culvert at Stream Crossings

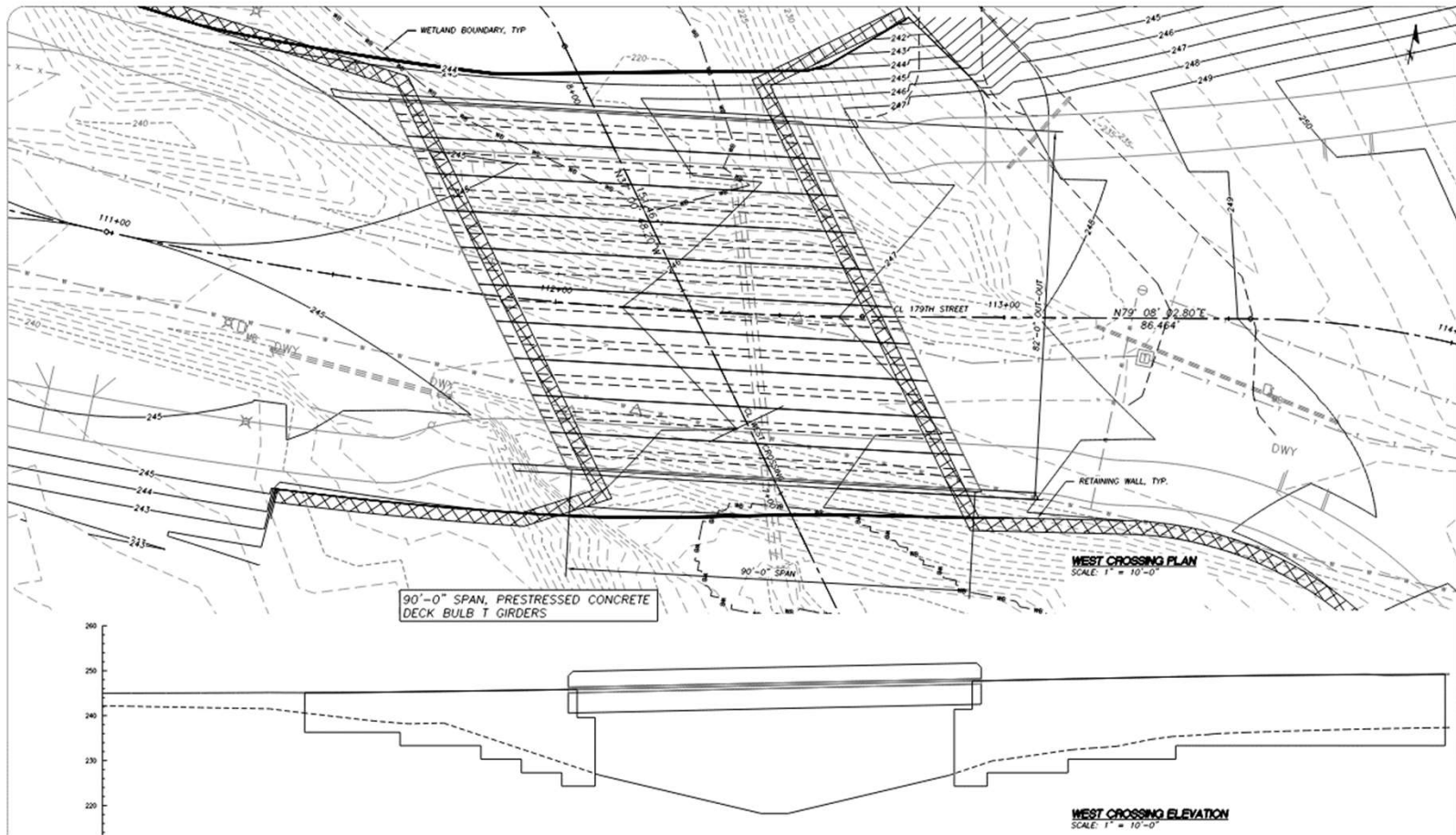
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# Culvert Option



# Bridge Option



## Environmental Impacts and Mitigation

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- Coho salmon and steelhead trout have been documented per WDFW
- Culvert under 29<sup>th</sup> is broken and is a fish barrier
- Habitat north of NE 179<sup>th</sup> is of low quality, east of 29<sup>th</sup> is better, in a biodiverse corridor that is protected with decent fish habitat
- Wetlands are present, both near the stream and some upland



# Environmental Impacts and Mitigation

**Table 3—Approximate Wetland and Stream Mitigation Areas**

Alt.	Approx. Wetland Category	Permanent Wetland Impact (acres) (Category II Wetland)	Wetland Mitigation Ratio (Wetland Creation)	Wetland Mitigation Acreage Needed (acres)	Temporary Wetland Impact (acres)	Perm./Temp. Wetland Buffer Impact Combined (acres)	Perm./Temp. Stream Buffer Impact Combined (acres)	Perm. Stream Impact (acres)
<b>West Crossing</b>								
1	II	0.04	3:1	0.12	0.08	0.32	within wetland buffer	0.05
2	II	0.04	3:1	0.12	0.08	0.32	within wetland buffer	0.05
3	II	0.06	3:1	0.18	0.08	0.34	within wetland buffer	0.05
4	II	0.01	3:1	0.03	0.05	0.28	within wetland buffer	0
5	II	0	3:1	0	0.04	0.25	within wetland buffer	0
<b>South Crossing</b>								
1	II	0.04	3:1	0.12	0.07	0.41	within wetland buffer	0.05
2	II	0.04	3:1	0.12	0.07	0.41	within wetland buffer	0.05
3	II	0.05	3:1	0.15	0.08	0.44	within wetland buffer	0.05
4	II	0.03	3:1	0.09	0.04	0.44	within wetland buffer	0
5	II	0	3:1	0	0.03	0.44	within wetland buffer	0



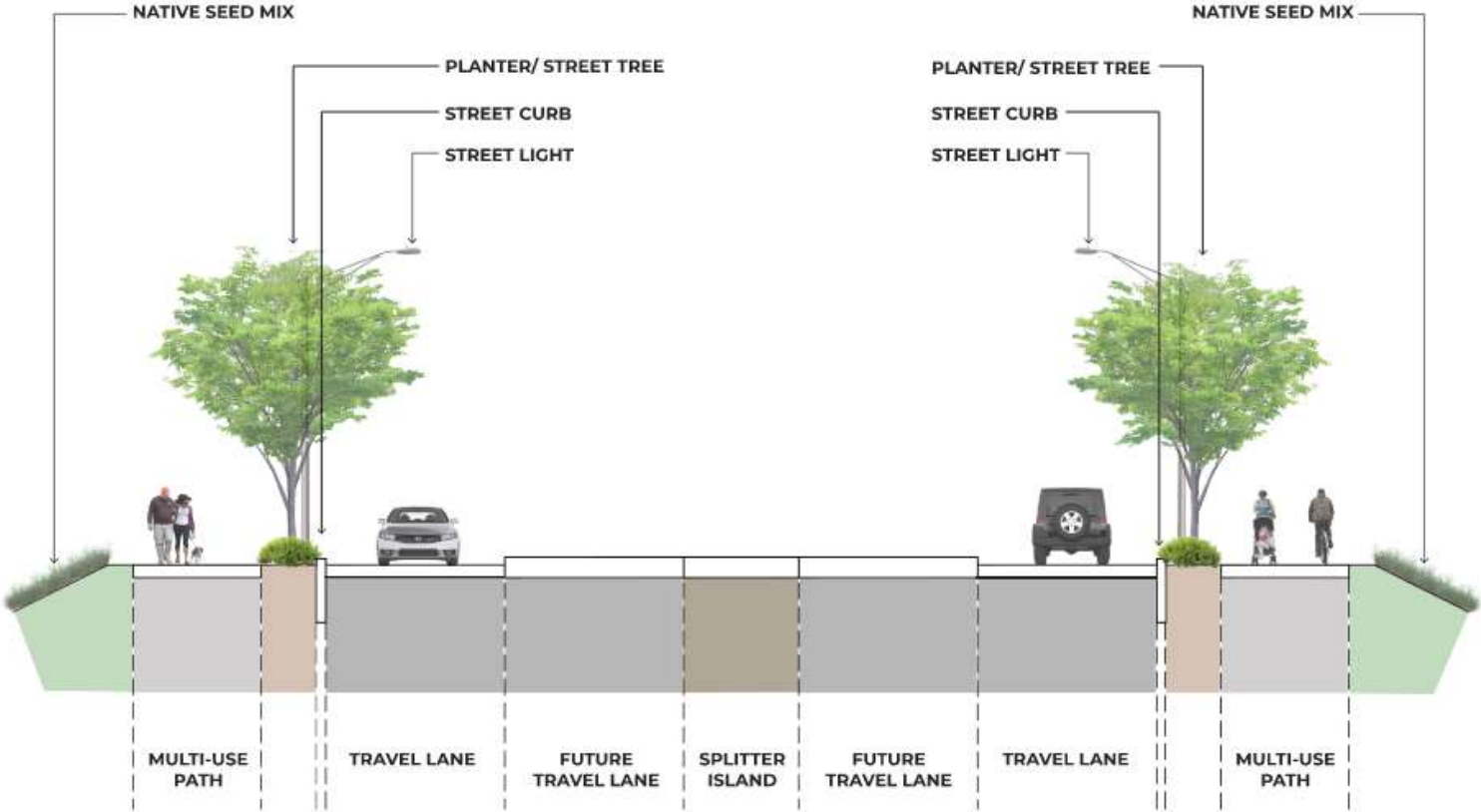
## Intersection and Corridor Aesthetics

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- 1. Retaining Walls, visible and not visible from the street
- 2. Fencing
- 3. Stormwater Facilities
- 4. Illumination poles
- 5. Pedestrian accommodations
- 6. Crosswalks (hardscape)
- 7. Planter strip (between curb and shared path)
- 8. Truck aprons and Splitter Islands
- 9. Center of the roundabouts



# Cross Section of NE 179th

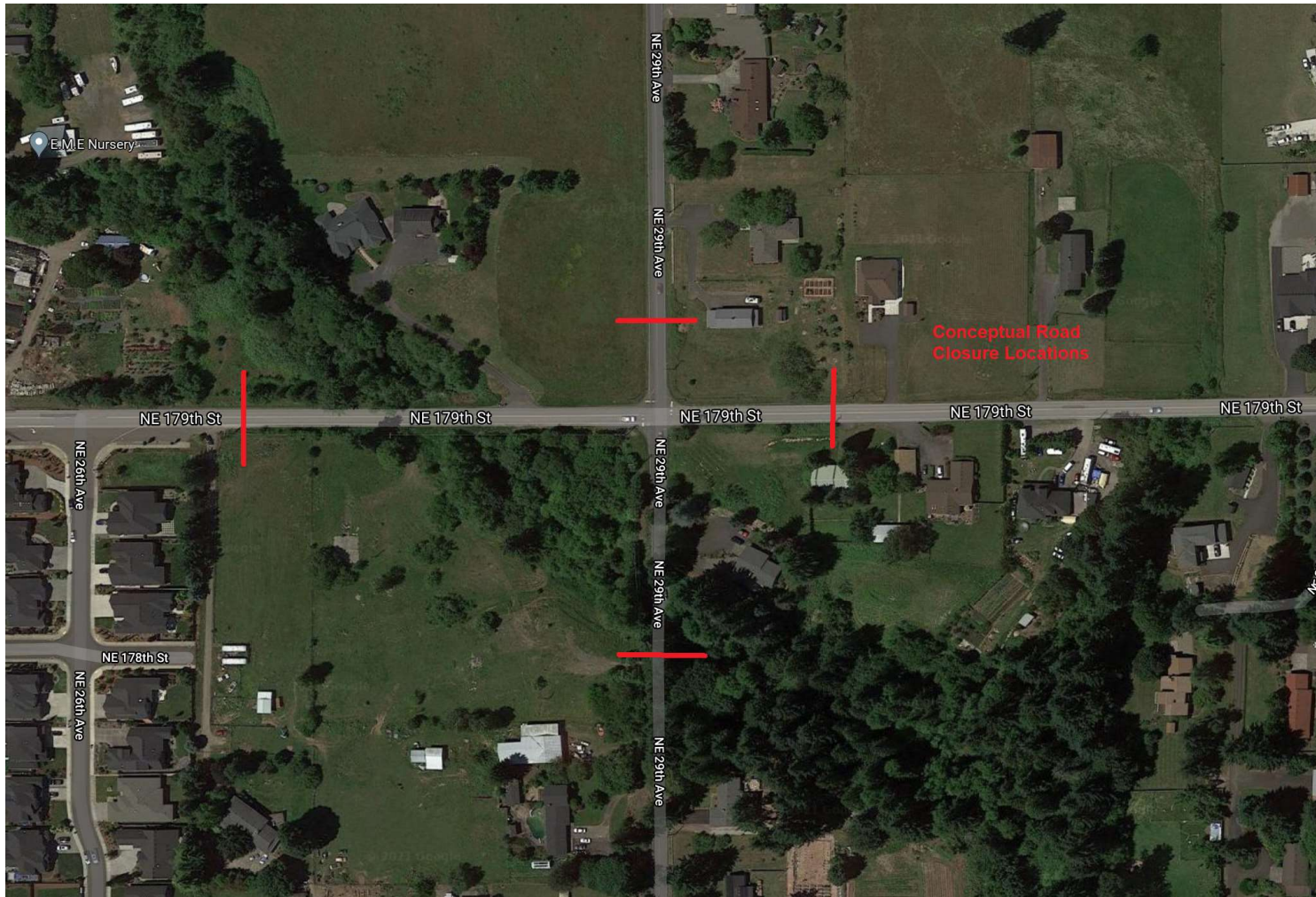




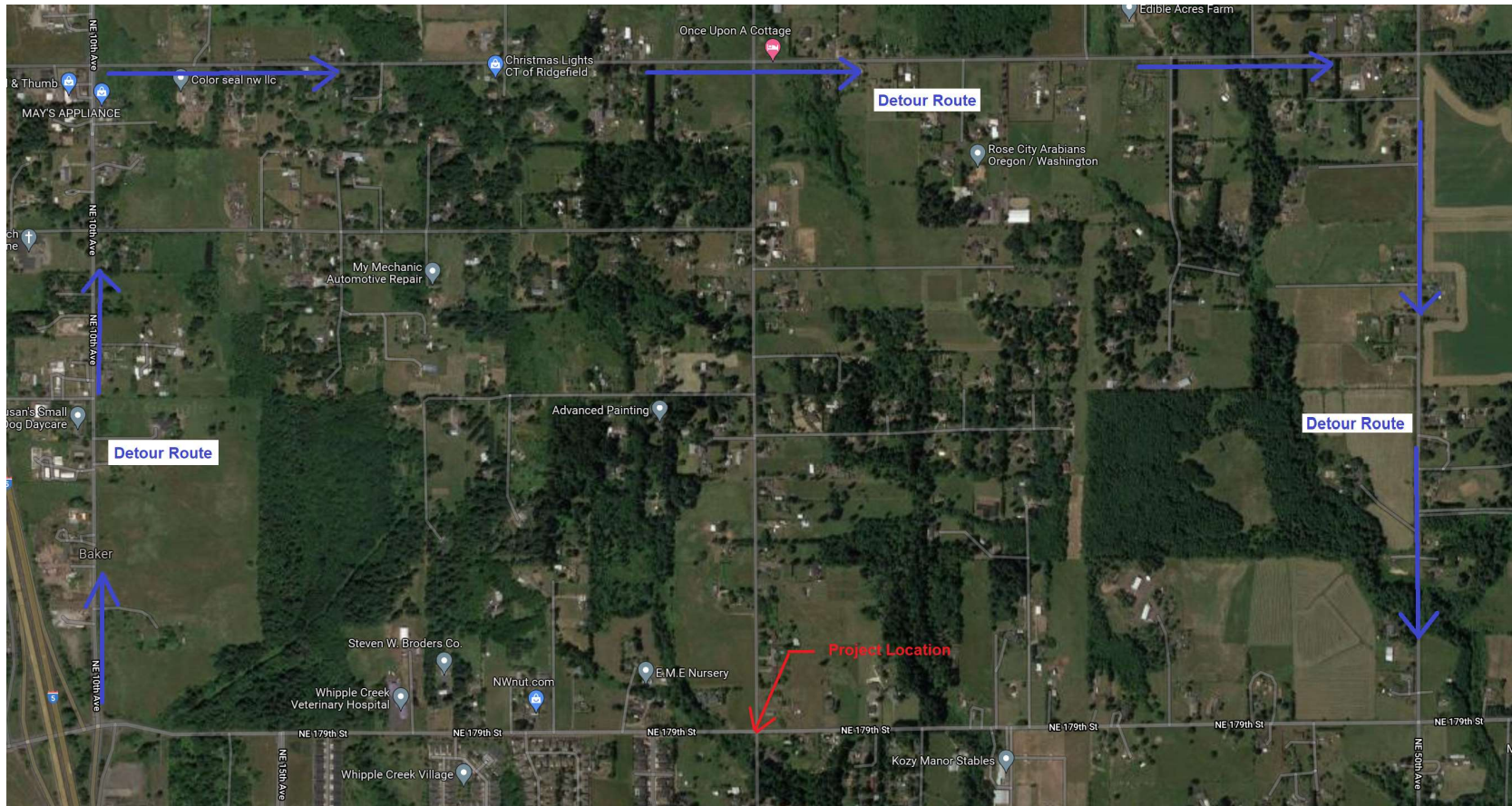
# Center of Roundabout Opportunities



# Road Closure



# Detour Route



# Project Funding

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- Federal Grant
- Traffic Impact Fees
- County Road Funds
- Clark Public Utilities - Water
- Clark Regional Wastewater District



## Current Project Schedule

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- Property Acquisition Process – (April,2022 – March,2023)
- Environmental Permitting – (April,2021 – March,2023)
- Bid Opening / Award - Spring, 2024
- Anticipated Start of Construction – Summer,2024
- Substantial Completion – Summer, 2026



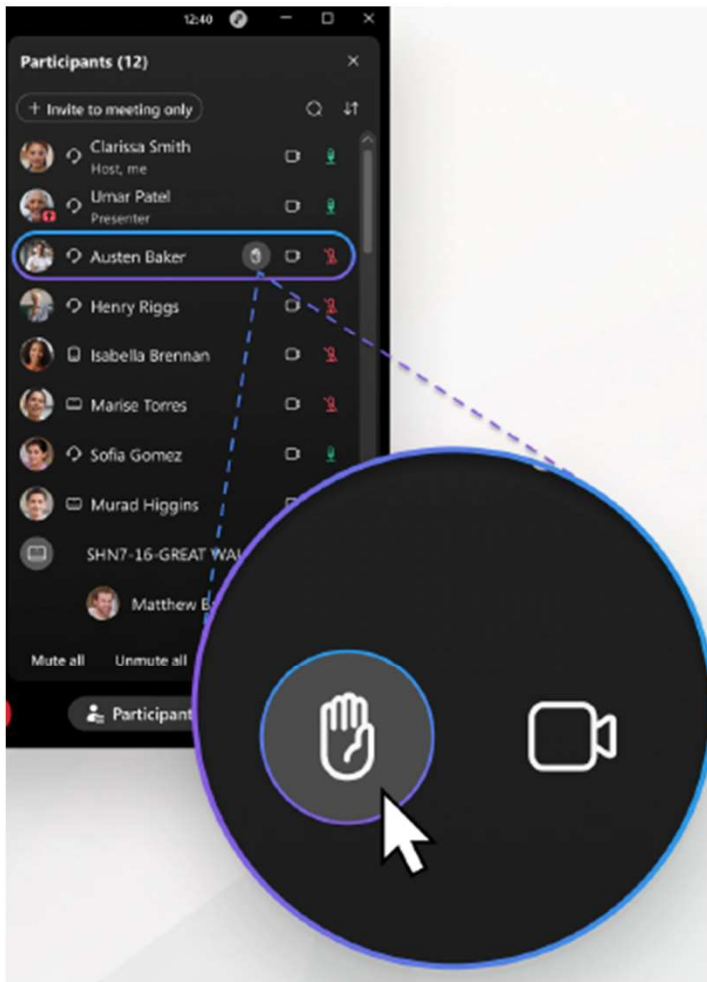
## Contact Information

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- Project Manager
  - Scott Sawyer
  - 564-397-4364
  - [scott.sawyer@clark.wa.gov](mailto:scott.sawyer@clark.wa.gov)
- Project Email Address: [179thstreetproject@clark.wa.gov](mailto:179thstreetproject@clark.wa.gov)
- NE 179<sup>th</sup> St. Project Website: <https://clark.wa.gov/public-works/ne-179th-st-ne-29th-ave>
- Public Works Customer Service: [pubwks.cservice@clark.wa.gov](mailto:pubwks.cservice@clark.wa.gov)



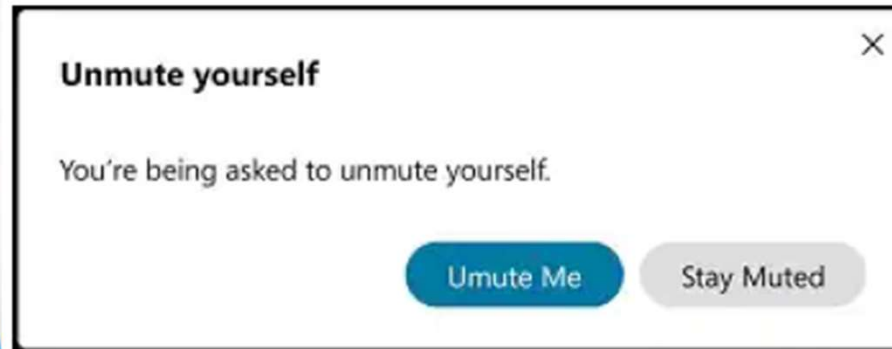
# Questions



During a meeting, click  **Raise Hand**.

A raised hand  appears next to your name in the participants list.

If the host allows you to speak, you're prompted to unmute yourself.


































To lower your hand, click **Lower Hand**.

If your meeting has [reactions](#), you can also raise and lower your hand from the **Reactions** menu, or use gesture recognition.



Corridor Project Planning Display – Roundabout at Delfel Rd. & Interim NE 50<sup>th</sup> Ave. Option

 Design/ROW/Environmental  
 Construction

Project	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
NE 10th Ave. (TACC)													
Delfel Rd. Realignment (Roundabout - Multi-Project Stormwater)													
I-5/179th St. Interchange Reconstruction													
179th St. (Interchange Improvements to NE 15th Ave. Improvements)													
NE 15th Ave. (NE 179th St. to NE 10th Ave.) & (15th Ave. to NE 26th Ave.)													
NE 179th St. & NE 29th Ave. Intersection													
NE 179th St. & NE 50th Ave. Intersection - Interim Project													

PE	ROW	Construction	Total
\$1,580,000	\$1,402,000	\$9,618,000	\$12,600,000
\$1,400,000	\$2,400,000	\$11,700,000	\$15,500,000
N/A	N/A	N/A	N/A
\$204,000	\$212,800	\$2,483,200	\$2,900,000
\$3,077,000	\$1,720,000	\$23,203,000	\$28,000,000
\$1,994,000	\$2,285,000	\$19,321,000	\$23,600,000
\$179,200	\$200,000	\$720,800	\$1,100,000

**Total \$83,700,000**

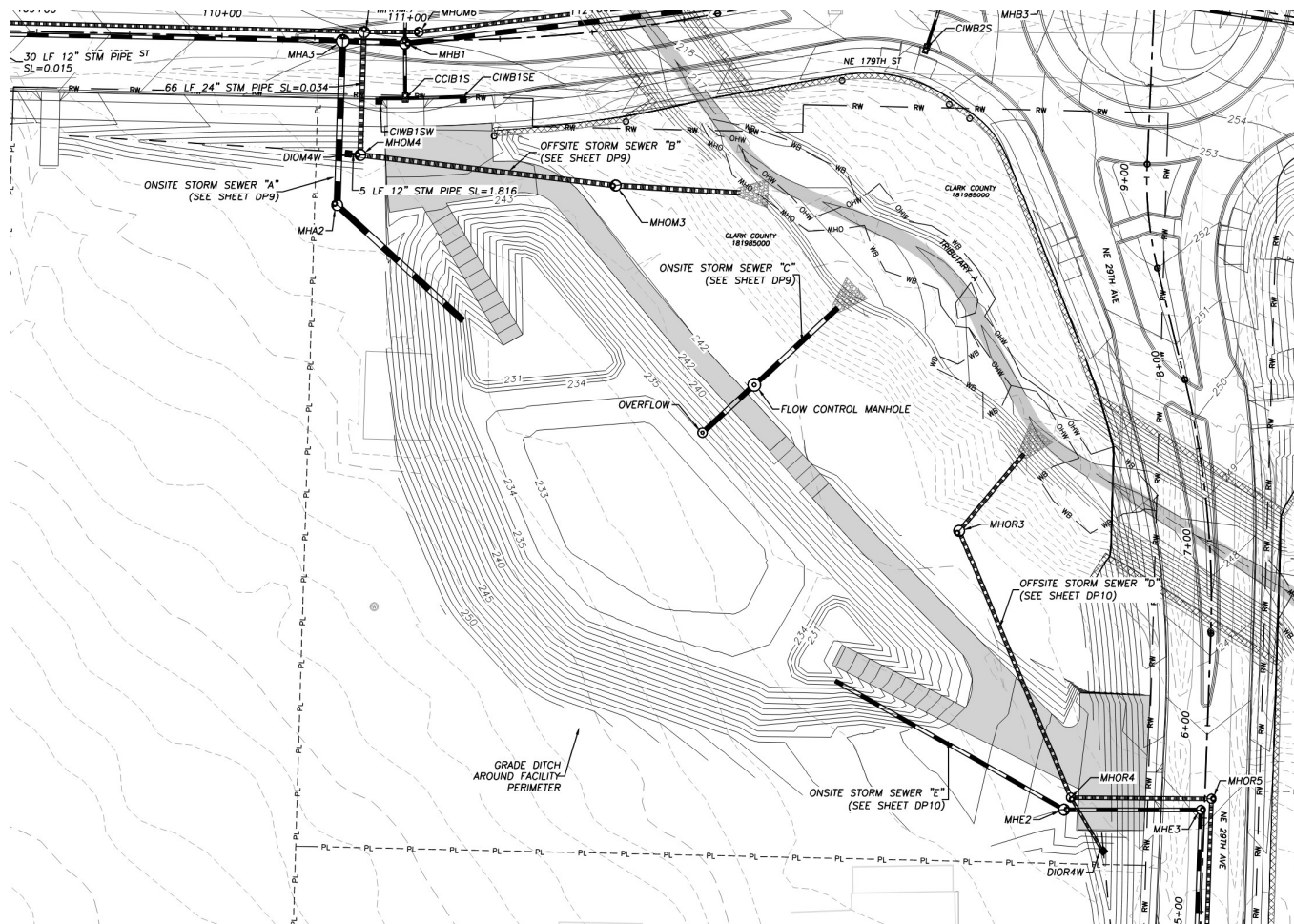






ABOUT AT NE 179TH ST AND NE 29TH AVE





**OFFSITE DRAINAGE STRUCTURES**

DIOM4W  
 STA 110+71, MATCH 62' RT  
 GRATE  
 RIM = 245.82  
 IE 12" OUT (E) = 244.15

DIOR4W  
 STA 5+31, MATCH 55' LT  
 GRATE  
 RIM = 239.67  
 IE 12" OUT (NW) = 238.00

**LEGEND**

- DITCH
- RETAINING W.
- ONSITE STOK
- OFFSITE STO
- SWF ACCESS

