

Pre-Design Study for the SR 20 at Discovery Road/Mill Road and SR 20 at Kearney Street Intersections

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Agenda

Purpose: Informational

Background: Informational

Discovery/Mill Road Intersection: Discussion

Kearney Street Intersection: Discussion

Next Steps: Informational

Study Stakeholders

- City of Port Townsend
- East Jefferson Fire Rescue
- Jamestown S'Klallam Tribe
- Jefferson County
- Jefferson County Chamber of Commerce
- Jefferson Transit
- Lower Elwha Klallam Tribe
- Port Gamble S'Klallam Tribe

- Port of Port Townsend
- Port Townsend Paper Corporation
- Port Townsend School District Transportation
- WSDOT Headquarters & Olympic Region

Why are we here today?

The existing traffic signals are:

- Obsolete, suspended on span wire instead of the preferred mast arms
- Requiring frequent and extensive updates to keep them working

Stakeholder engagement:

- Work with community partners to identify any issues and concerns with the intersection alternative
- Develop an alternative that addresses community issues and concerns



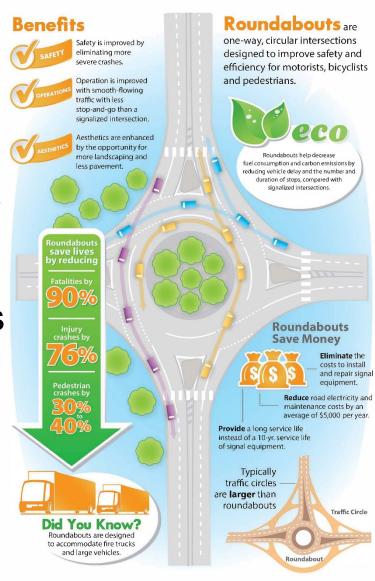
Common considerations in selecting intersection type

- Safety
- Traffic delay
- Maintenance, operations, replacement
- Space needs
- Resiliency
- Cost



Why roundabouts?

- ✓ Improved safety
- ✓ Reduced traffic delay
- ✓ Reduced maintenance costs
- ✓ No replacement needed
- ✓ Works during power outages
- ✓ Cost competitive



Compact roundabout

- Smaller than traditional roundabouts
- Used where space is limited
- Mountable central islands
- Operate the same as larger roundabouts



Shelton, WA



Cashmere, WA

What is different about compact roundabouts?

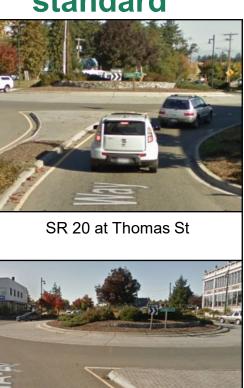
compact



SR 902 east of Spokane

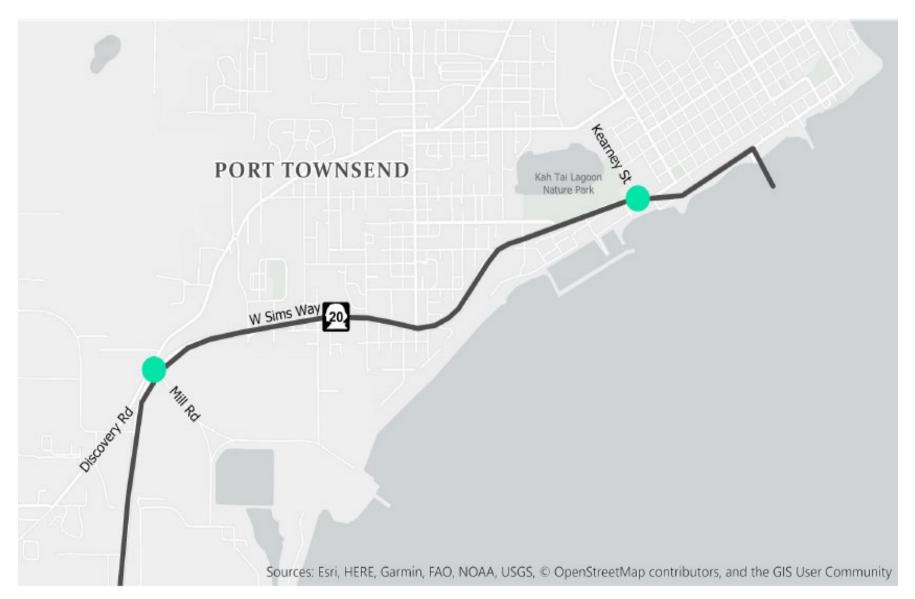
- Mountable curbing
- Traversable central islands
- Shorter and traversable splitter Islands

standard



SR 20 at Thomas St

Where are the intersections?









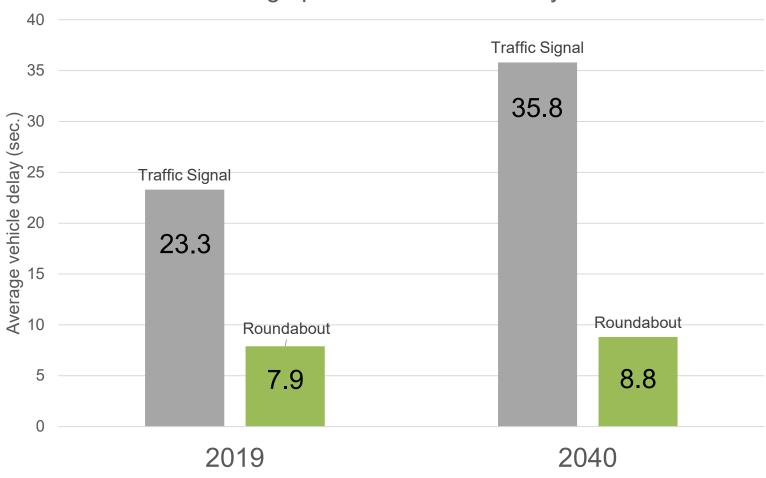
Existing Traffic and Safety Data

- Over 1,800 vehicles during peak hour
- 14 Crashes over 5-year period
 - 7 injury crashes
 - 3 crashes with bicyclists
- Averages over 20 seconds of vehicle delay during peak hour. Increasing to over 35 seconds by 2040

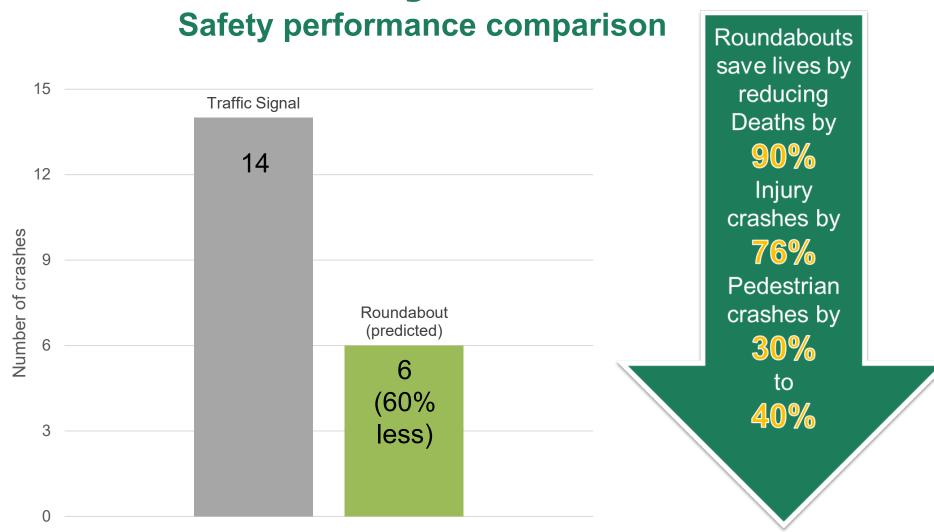
Under 23 U.S. Code § 409 and 23 U.S. Code § 148, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

Intersection Delay Comparison









Under 23 U.S. Code § 409 and 23 U.S. Code § 148, safety data, reports, surveys, schedules, lists compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential crash sites, hazardous roadway conditions, or railway-highway crossings are not subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.

Design Considerations

Port Townsend Paper Mill



Kraft Linerboard maximum roll weight of 8,000 pounds



Hopper style truck hauling wood chips to the Mill

- fruit boxes
- pizza boxes
- paper bags
- cardboard displays
- fiber cement siding
- Mailing envelopes
- dozens of other products

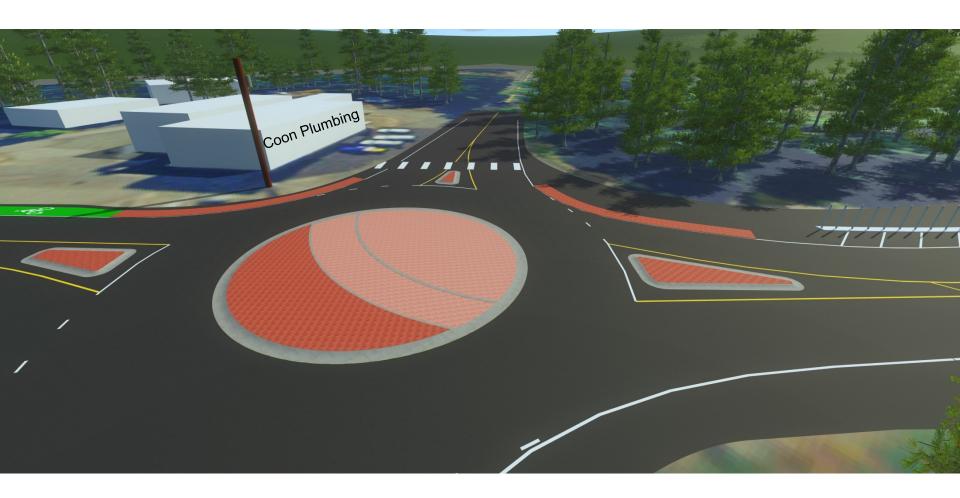




















SR 20 and Kearney

Existing Traffic and Safety Data

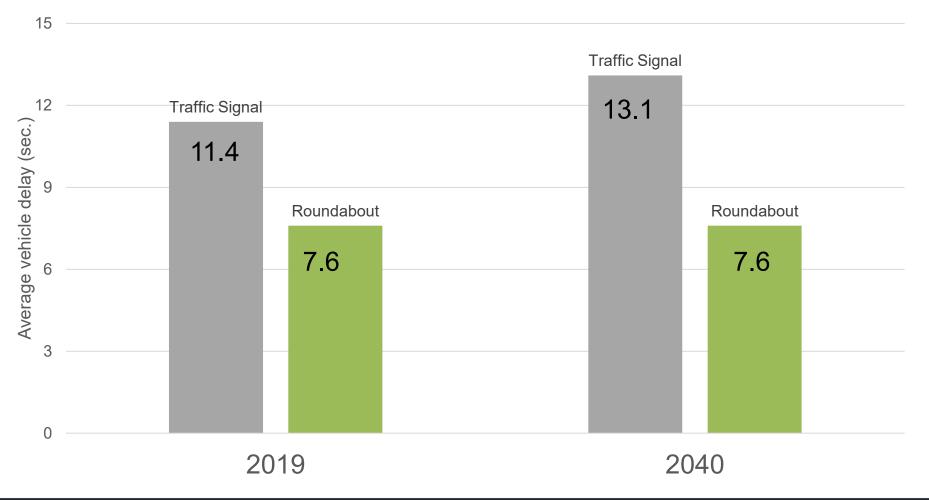
- Over 1,300 vehicles during peak hour
- 17 Crashes over 5-year period
 - 9 injury crashes
 - 2 crashes involved pedestrians
- Averages over 11 seconds of vehicle delay during peak hour

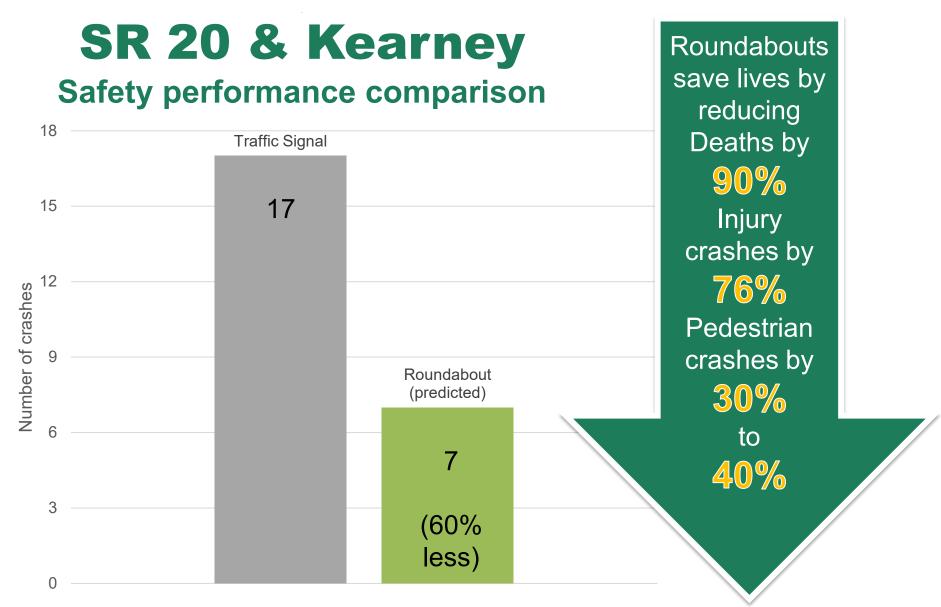
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SR 20 & Kearney

Intersection Delay Comparison

Average peak hour vehicle delay





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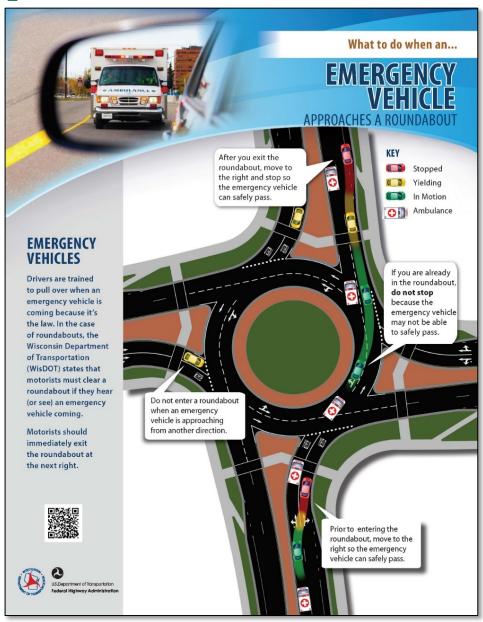


Design Considerations – Emergency Vehicles





Example educational brochure



What is the study schedule?

SR 20 Discovery Rd & Kearney St Intersection Roundabouts
Pre-Design Study Schedule April – December 2020

Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Research and data collection								
						Meeting 1		
						Additional Analysis?		
							Meeting 2?	
								Final Report
						Community Outreach & Study Webpage		



Next Steps

Project | Pre-Design | Design | Utility | Construction

- ☐ Online community outreach: October 2020
- Draft and finalized report: December 2020

- Project design: January 2021
- Utility Easements: November 2021
- Construction: October 2022

Thank You!

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