# Amisigger Road at Hwy 224 Intersection Improvements





Eagle Creek-Barton CPO

April 13, 2023

#### Timeline





- Design: June 2022 Spring 2024
  - 30%, 60%, 90%
  - Work to minimize impacts to adjacent properties
- Right of way (ROW): August 2023 Spring 2024
  - Process
    - ROW staff contacts property owners
    - Staff will follow the ROW acquisition process
- Construction: Spring 2024 Summer 2025

# What we'll be doing





#### Reducing delays

- The Estacada, Gresham and Sandy areas are growing
- Increased commuter traffic
- Anticipating future traffic needs now

#### Improving safety

- Control conflicts in intersection
- Safer to turn onto Hwy 224
- Easier to turn on Hwy 224



# Traffic Signal vs Roundabout





#### Traffic signal

- + Lower construction costs
- + Allows dedicated time for vehicles turning onto Hwy 224
- + Greater capacity for future growth if growth surpasses roundabout capacity
- Crashes tend to be more severe
- Creates delays at off-peak travel times
- Potential for higher speed crashes if a drivers runs light
- More long-term maintenance costs
- + Smaller project area

#### Roundabout

- Higher construction costs
- + Traffic flows 30% faster at peak times compared to traffic signal intersection; no delays at off-peak travel times
- + Fewer conflict points, slower speeds, easier decision-making (lower crash severity i.e. less injuries)
- + Eliminates severe crash types most head-on, left-turning across oncoming traffic, and right angle crashes
- + Less long-term maintenance costs
- Larger project area

## Multi-lane roundabout concept drawing





## Design checks: Right turn travel





## Design checks: Eastbound/westbound travel





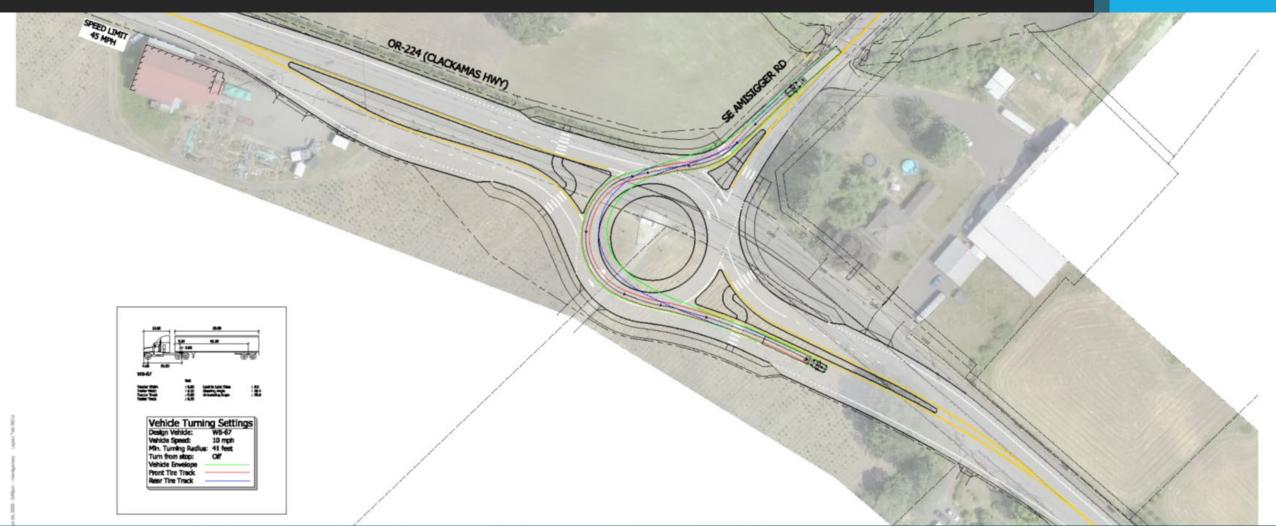
## Design checks: Eastbound left turn travel





#### Design checks: Southbound left-turn travel





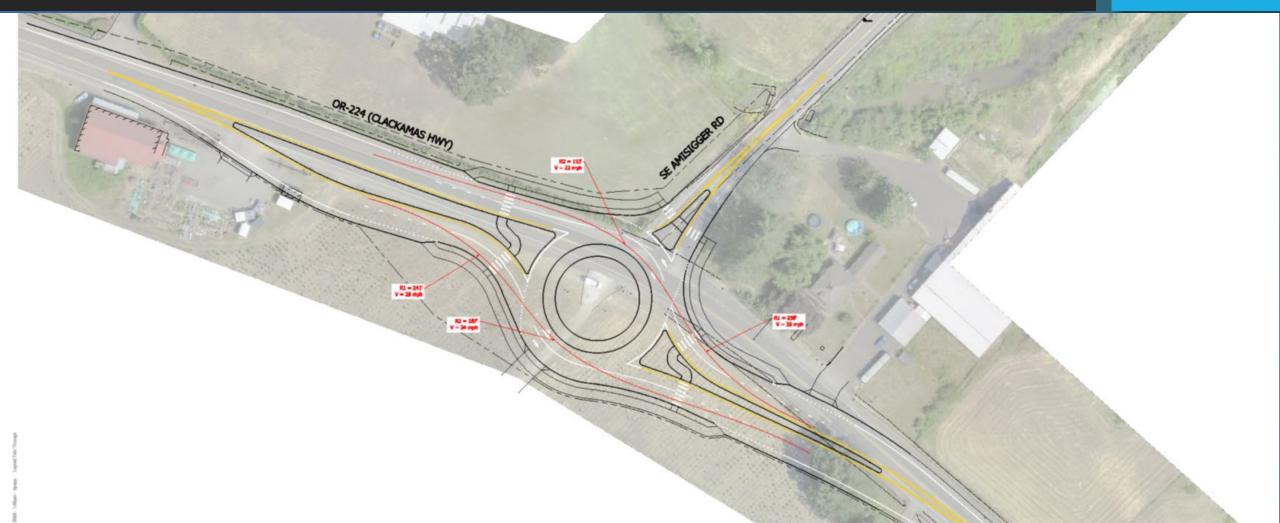
## Design checks: Right turn fastest path





## Design checks: Through fastest path





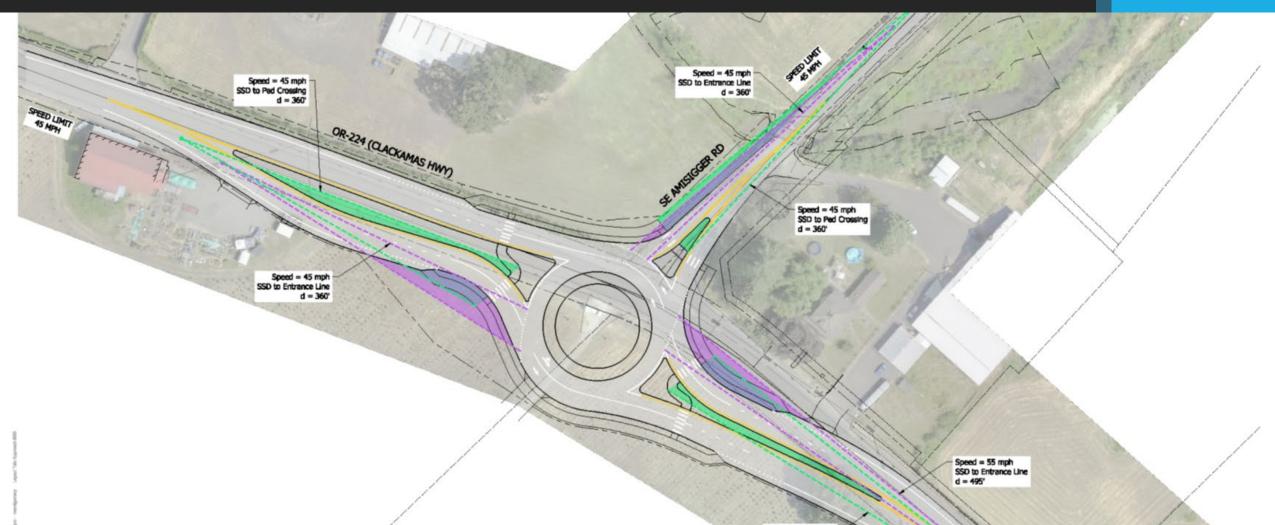
## Design checks: Left turn fastest path





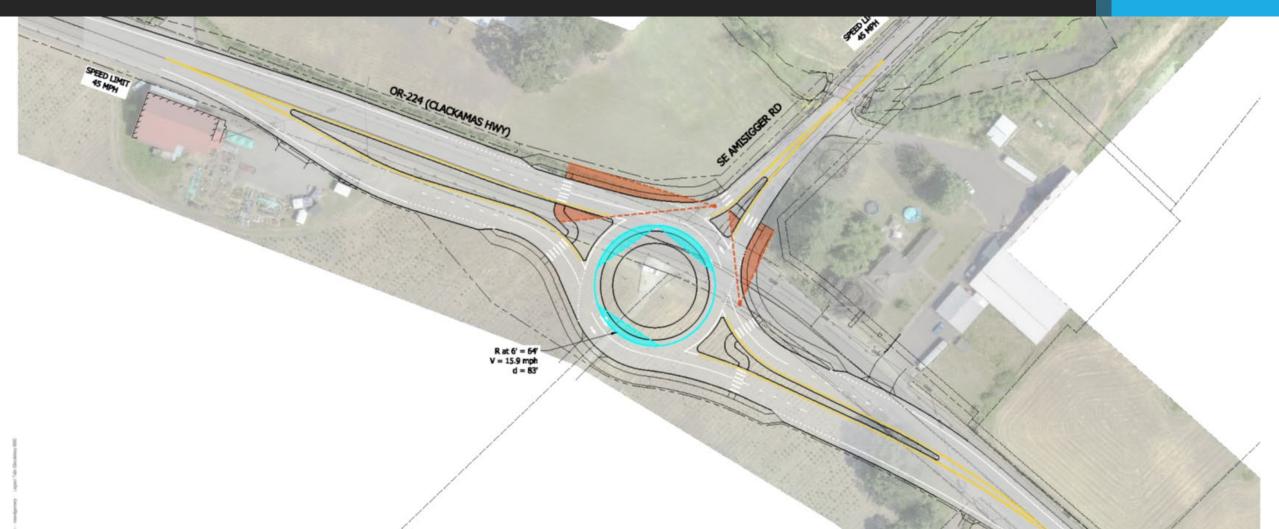
## Design checks: Stopping sight distance





## Design checks: Cross walk sight distance





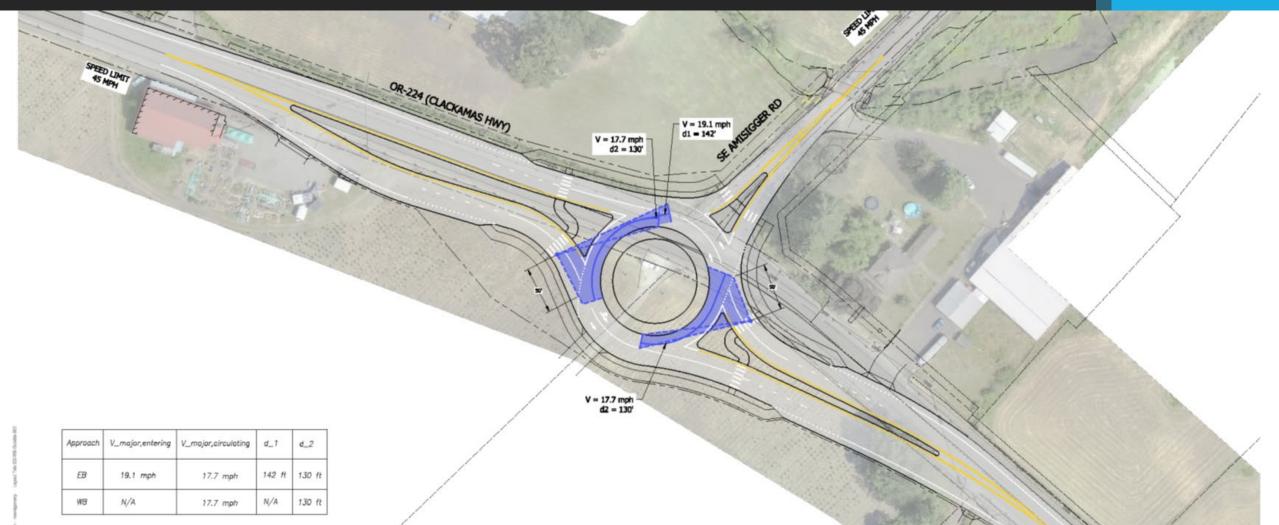
## Design checks: Inside lane sight distance





## Design checks: Outside lane sight distance



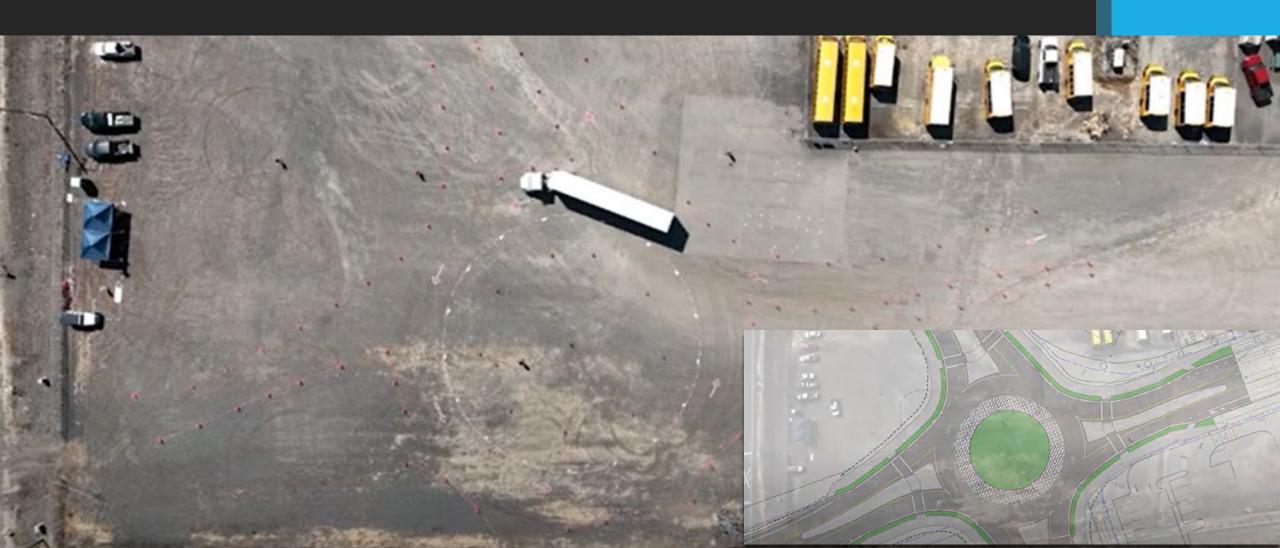


## Design checks: Southbound sight distance





## Design checks: In the field proof of concept



# Funding: \$5.4 million





#### Community Road Fund

Projects to increase safety, relieve congestion and maintain local roads

- \$30/year vehicle registration fee
- Consistent source of local, countywide revenue to complete projects most important to our residents and businesses
- Can only be used for road projects in Clackamas County

#### **Nearby CRF projects**

- Safety:
  - Duus Road / Eagle Creek Road Intersection Improvements
  - 282nd/Haley Road Intersection Safety Improvements
  - Bluff Road / 327th Ave.
    Intersection Enhancements
- Paving:
  - 312th Dr
  - Church Road

www.clackamas.us/transportation/crf



Amisigger Road at Hwy 224 Intersection Improvements www.clackamas.us/engineering/amisigger-hwy-224

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