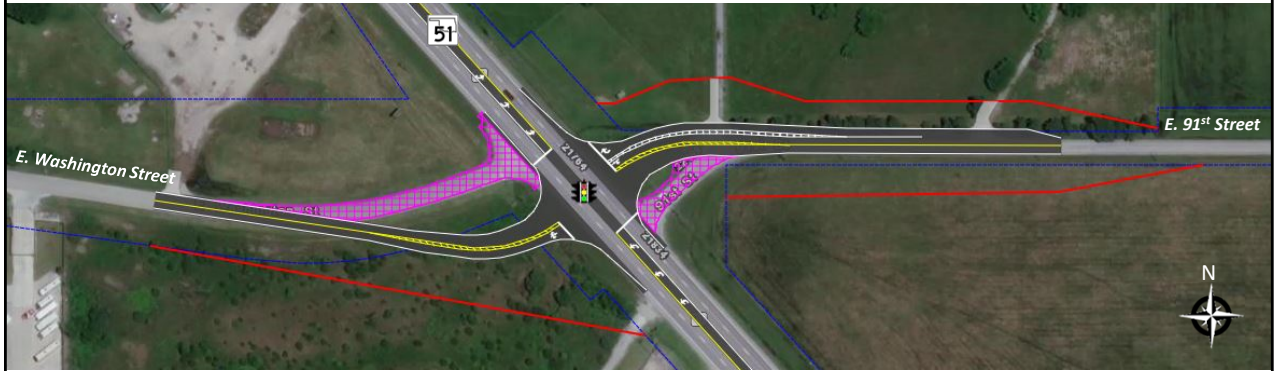


WELCOME



OKLAHOMA
Transportation

Virtual Public Open House

SH-51 at E. 91st Street/E. Washington Street
Intersection Modification

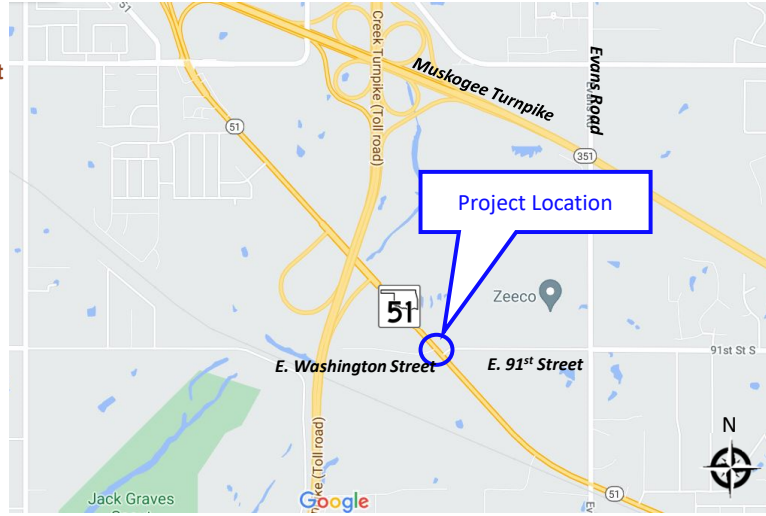
Wagoner County

August 17-31, 2021

Welcome to the Virtual Public Open House for the SH-51 and E. 91st Street intersection project in the City of Broken Arrow, Wagoner County.

Purpose of the Open House

1. Present the Plans for the Project on SH-51 at E. 91st Street/E. Washington Street
2. Obtain Public Input
3. Outline the Next Steps and Schedule for the Project



The purpose of this open house is to present the plan for the intersection project on SH-51 at E. 91st Street and E. Washington Street and obtain public input. ODOT proposes to realign the two offset legs of E. 91st Street and E. Washington Street into a single intersection with a traffic signal. We will present the plans for the new intersection and explain how to ask questions or make comments on the project. This map shows the project location near the interchange of SH-51, Creek Turnpike, and Muskogee Turnpike.



Purpose of the Open House

1. Present the Plans for the Project on SH-51 at E. 91st Street/E. Washington Street
2. Obtain Public Input
3. Outline the Next Steps and Schedule for the Project



This map includes a more zoomed-in view of the project location, showing the intersection of SH-51 with E. 91st Street and E. Washington Street.

Purpose of the Project

Improve Traffic Flow

E. 91st Street and E. Washington Street intersect SH-51 approximately 100 feet apart, creating two offset “T” intersections.

SH-51 has high traffic volumes and is expected to increase in the future.

- **Posted speed limit of 55 mph**
- **Current Traffic (2020):**
 - 28,800 Vehicles/Day on SH-51
- **Projected Traffic (2045):**
 - 43,200 Vehicles/Day on SH-51

The large volume of high-speed traffic on SH-51 creates a lack of gaps in traffic for turning vehicles.



SH-51 left turn traffic to E. 91st Street in the AM Peak (looking northwest)



The purpose of the project is to improve traffic operations and safety at the SH-51 and 91st Street/Washington Street intersection, where the east and west legs are offset by approximately 100 feet.

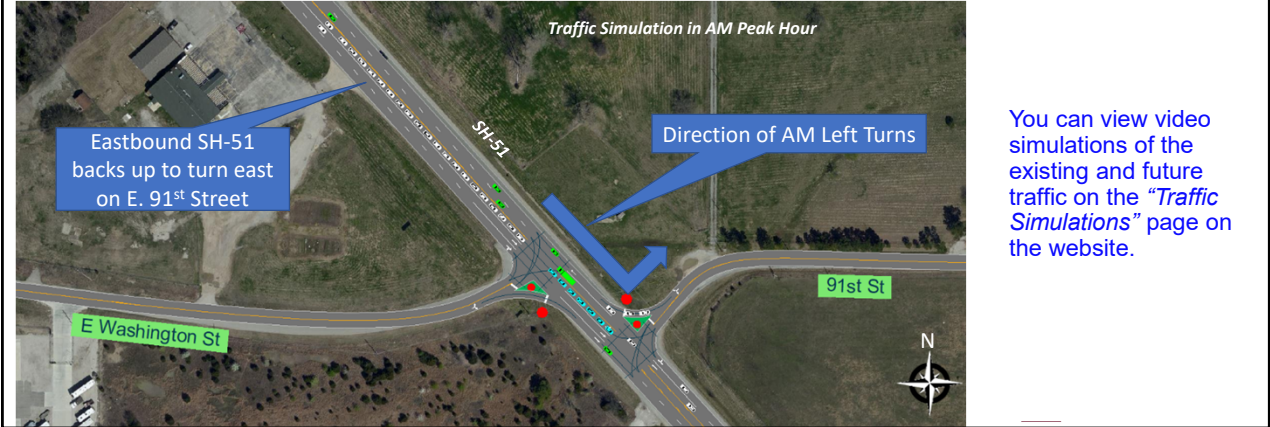
SH-51 is a 5-lane highway with two lanes in each direction, a center left turn lane, and a posted speed limit of 55 miles per hour. Existing traffic volumes on SH-51 are 28,800 vehicles per day, with a projected traffic volume of 43,200 vehicles per day by 2045. The large volume of high-speed traffic on SH-51 makes it difficult for traffic on the side streets to turn on to the highway.

Purpose of the Project

Improve Traffic Flow

Heavy turning movements occur from SH-51 to eastbound E. 91st Street in the AM peak and from westbound E. 91st Street to SH-51 in the PM peak.

Over 200 vehicles per hour make these turns in the peak periods.



You can view video simulations of the existing and future traffic on the "Traffic Simulations" page on the website.

Heavy turning movements occur from SH-51 to eastbound 91st Street in the mornings, and from westbound 91st Street to SH-51 in the evenings. Over 200 vehicles per hour make these turns in the peak periods. This graphic shows a simulation of today's traffic in the AM peak hour. You can see the traffic on eastbound SH-51 backed up to turn left on 91st Street. Eastbound traffic wanting to turn left on 91st Street backs up and blocks traffic on Washington Street wanting to turn left on to SH-51. You can watch video simulations of the existing and future traffic on the Traffic Simulations page of the website.

Purpose of the Project

Improve Safety

The offset intersections at E. 91st Street and E. Washington Street create overlapping turning movements and increase the potential for collisions.

- There were 16 collisions between 2014 and 2018 (last 5 years available)
- Rear-end collisions accounted for 56% of all collisions
- Almost half involved injury



Head-to-head traffic in the two-way left turn lane

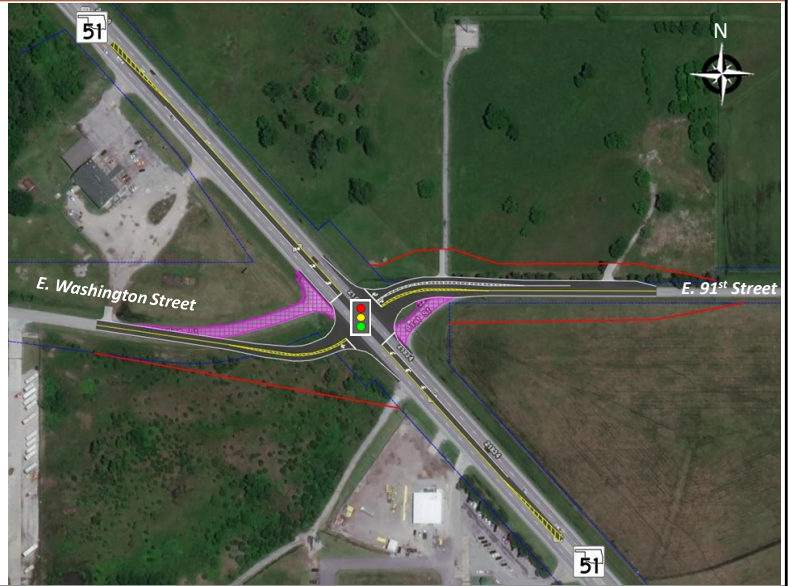


The SH-51 intersections at 91st Street and Washington Street experienced 16 collisions between 2014 and 2018. Rear-end collisions accounted for 56% of that total, which is an indicator of congested conditions. Close to half of these collisions resulted in injury. The offset intersections create overlapping turning movements, which increases the potential for and severity of collisions.

Intersection Improvements

Realign the Intersection with a Signal

- Create one intersection with a traffic signal
- Include dedicated left turn lanes in both directions on SH-51
- Include a dedicated right turn lane for westbound E. 91st Street traffic
- Intersection is designed to accommodate turning trucks

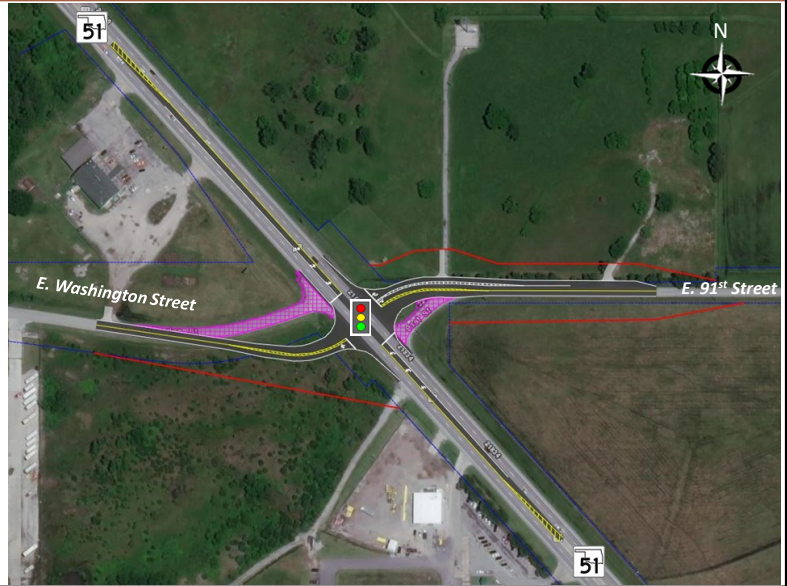


ODOT proposes to realign the existing offset intersections into a single intersection with a traffic signal. Dedicated left turn lanes will be provided in both directions on SH-51. A dedicated right turn lane will also be provided for westbound 91st Street traffic. The intersection has been designed to accommodate turning trucks.

Roadway Improvements

New Pavement will be Constructed

- The existing two way left turn lane will be overlaid with new asphalt for approximately 1,500 feet
- The existing center rumble strips will be removed within the new intersection area
- Minor right-of-way acquisition is anticipated, but no homes or businesses will be affected

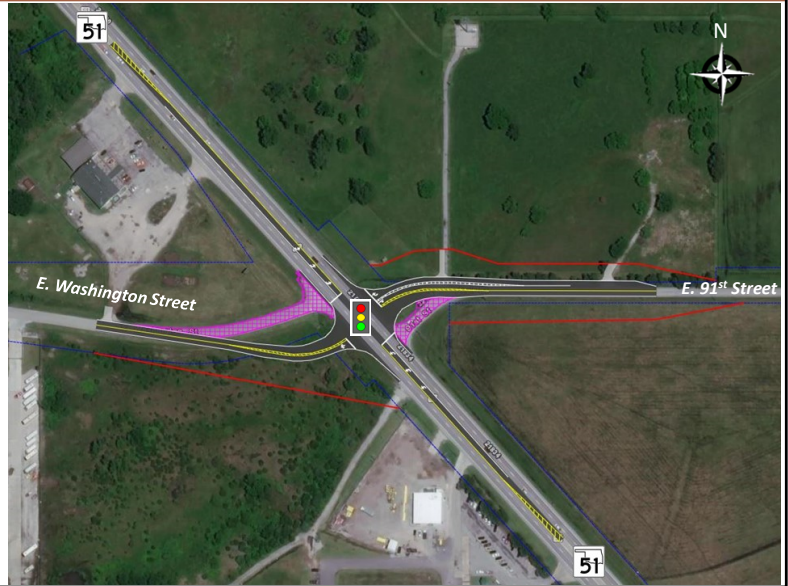


The project will remove the existing two-way left turn lane and the center rumble strips in the area of the new intersection and will include a new asphalt overlay in the center lane. Existing streets and driveways within the construction area will be reconstructed to the edge of the right-of-way. Minor right-of-way acquisition may be necessary, as shown with the red lines on the map. However, no homes or business will be affected.

Construction

Traffic Will be Maintained During Construction

- All roadways will remain open during construction
- Temporary pavement will be used to maintain traffic
- Access to all side streets and businesses will be maintained



All roadways will remain open during construction. Temporary pavement will be used to keep 91st Street and Washington Street open. Access to all side streets and driveways will be maintained. Construction is anticipated to last approximately nine months. The existing pavement of 91st Street and Washington Street will be removed when the project is complete, as shown with the pink shading.

Environmental Studies

Environmental Studies

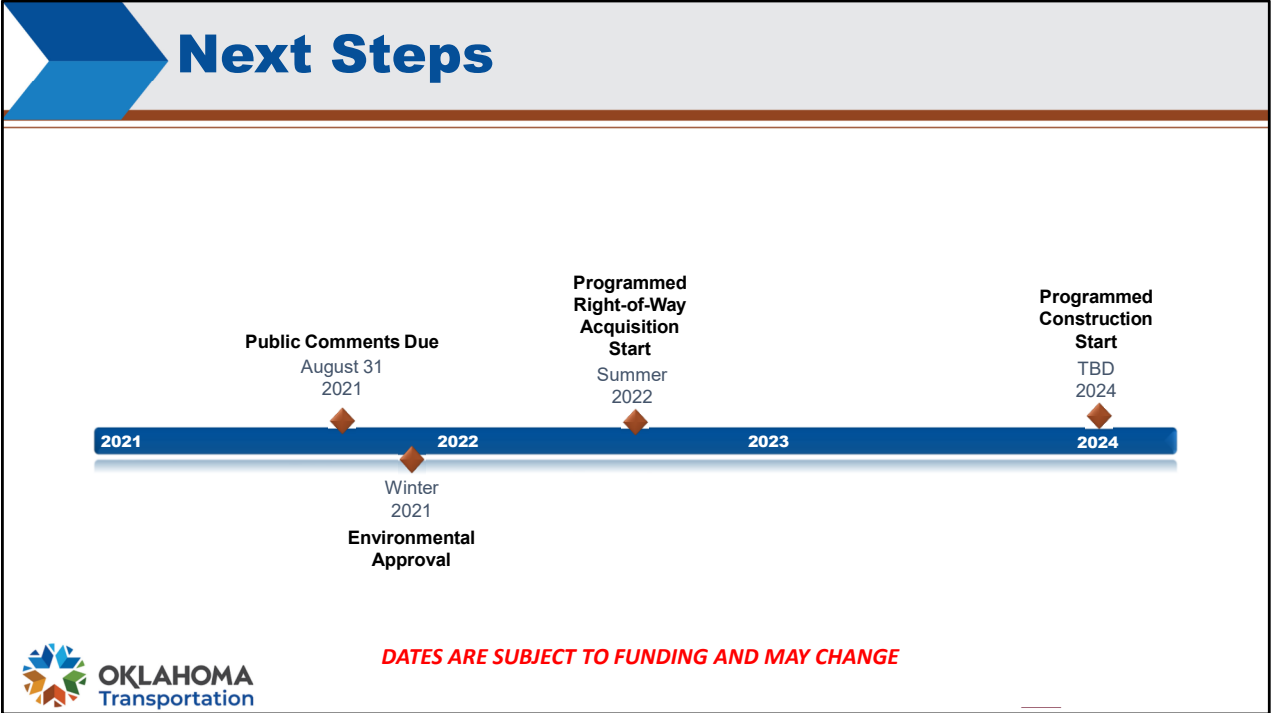
- **ODOT has completed studies of:**
 - Waters and Wetlands
 - Threatened and Endangered Species
 - Cultural Resources (Historic and Archeological)
 - Hazardous Materials
- **No significant impacts are anticipated**
- **Studies will be compiled in a Categorical Exclusion document for ODOT approval**



SH-51 looking northwest



ODOT has completed detailed environmental studies of the proposed project. Studies of waters and wetlands, threatened and endangered species, cultural resources, and hazardous materials were completed. No significant impacts to any of these resources are expected. Additional commitments to avoid and/or minimize impacts to the environment will be added to the project if needed. Due to historic mining activity in the area, ODOT will continue to evaluate the need for extra precautions during construction. ODOT must approve the environmental document before the project can proceed.



This slide shows the next steps for the project. We ask that you submit your comments by August 31 so that we may incorporate your feedback and finalize the design plans. Right-of-way acquisition is currently anticipated to start in Summer of 2022. Construction is anticipated to start sometime in 2024 and last approximately nine months. All dates are subject to funding and may change.



Thank You!

Thank you for participating in our Virtual Public Open House!

Please visit the other areas of the website for more information

- **Sign-in and Handout** - please sign in to let us know you were here!
- **Interactive Map** – view the design on an aerial photograph, zoom in and out, find your property, etc.
- **Traffic Simulation** – videos of how traffic flows today and how it will change with the new intersection
- **Environmental Studies** - ODOT's findings of the environmental studies
- **Submit a Comment** – submit your comment or questions on this page or send by email or mail



Thank you for participating! Please visit the other areas of this website for more information. This concludes the meeting presentation.