

WELCOME STATE HIGHWAY 53 Public Involvement Meeting February 23, 2016

Presented by: The Oklahoma Department of Transportation NewTran Solutions and White Engineering Associates, Inc.

Team Introductions



NewTran Solutions

Transportation Engineering Services

W HITE Engineering Associates, inc.

Purpose of This Meeting

...is to inform the public and receive input regarding the Department's proposed improvements to SH-53 from Friendship Rd. (NS-278) to S. 5th St. in the City of Comanche.



Project Development Process



Purpose of The Project

- Improve Roadway Safety and Multimodal Mobility
 - Upgrade Roadway Geometry and Intersection Sight-Distance to current design standards.
 - Replace deteriorated sidewalk in Comanche.
- Replace Deficient Bridges
- Add Shoulders
- Add Curb & Gutter in town
- Mitigate high-frequency collision locations
 - Bowles Road (NS-280)
 - Sears Road (NS-281)
 - S. 8th Street
- Improve safe ingress/egress at school

Identify Problems & Gather Information

Original roadway constructed in the 1926



OKLA S.H.C. 1928

18 ft. (Original Roadway)

Widened in 1965

80 ft. Right-of-Way (Typical)

24 ft. (Widened Roadway)

- Existing traffic (2012): 3,200 vehicles/day
- Projected traffic
 (2032): 4,500
 vehicles/day
- Percent truck traffic: 17%
- Posted speed limit(s): 35MPH – 65MPH



Obsolete roadway geometry provides inadequate sight-distance at NS-280 (Bowles Rd.)



Dry Creek Bridge (60 ft. long by 30' wide steel beam bridge)



Dry Creek Bridge (60 ft. long by 30' wide steel beam bridge)



Bridge near S. 7th Street in Comanche



Original bridge constructed in 1926 Reconstructed in 2008 using existing abutments 22 ft. long by 41 ft. wide steel beam bridge

Bridge near S. 5th Street Bridge in Comanche



Original bridge constructed in 1926 24 ft. long by 30 ft. wide steel beam bridge

Roadway Culverts



Most existing culverts are suitable for extension

10-Year Collision History

Crash Types Reported



10-Year Collision History

Higher frequency collision locations (3 or more in 10 years)



Environmental Studies

Issues Considered

- Relocation Impacts
- Wetland & Stream Impacts
- Floodplain Impacts
- Farmland Impacts
- Threatened & Endangered Species
- Cultural & Archaeological Sites
- Hazardous Waste Sites
- Oil & Gas Sites
- Noise Impacts



Conceptual Improvements





2-12 ft. travel lanes with 8' shoulders



35

2-12 ft. travel lanes with 8 ft. shoulders & curb and gutter

2-13 ft. travel lanes with 14 ft. two-way left-turn lane & curb and gutter



Conceptual sidewalk improvement Segment 1: Comanche Dr. to school crosswalk

35

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2-12 ft. travel lanes with 8 ft. shoulders, curb and gutter & 5 ft. sidewalk

2-13 ft. travel lanes with 14 ft. two-way left-turn lane, curb and gutter & 5 ft. sidewalk

Conceptual sidewalk improvement Segment 2: School crosswalk to S. 8th Street

35

2-12 ft. travel Lanes with 8 ft. shoulders, curb and gutter & 5' sidewalk

2-13 ft. travel lanes with 14' ft. two-way left-turn lane, curb and gutter & 5' sidewalk

Conceptual sidewalk improvement Segment 3: S. 8th Street to S. 5th Street



Right-of-Way

Section 1 (open roadway section):

- Existing right-of-way Approximately 80 ft.
- Additional right-of-way required Approximately 35 ft. either side)
 - Varies based on design constraints
- Symmetrical widening (widened on both sides)
- No relocations anticipated

Section 2 (curb & gutter roadway section):

- Existing right-of-way Approximately 80 ft.
- Additional right-of-way required Approximately 10 ft. either side
 - Varies based on design constraints
- Symmetrical widening but widened to west near school
- No relocations anticipated

Conceptual Improvements At Intersections and Bridges

Dry Creek Bridge Replacement

Replace existing 60 ft. long by 30 ft. wide Steel Beam Bridge with 120 ft. long 40 ft. wide Concrete Beam Bridge

SH-53

Construct Temporary Detour

Replace existing double 10 ft. X 10 ft. overflow bridge culvert with double 6 ft. X 6 ft. roadway culvert.

Dry Creek Bridge Replacement



Dry Creek Bridge Replacement



Alignment Modification at NS-280

Construct new alignment to North to correct vertical geometry and maintain traffic during construction



Alignment Modification at NS-280



Transition to Curb & Gutter at NS-281



Texas Ave. Intersection



W. Oak Ave. & N. 10th St. Intersections



S. 8th St. to S. 5th St.



Replace Bridge Near 5th Street



Transition to Angle Parking (EOP)



Next Steps



Thank You!

Please Submit Your Comments by: March 8, 2016

- Comments may be provided as follows:
 - Leave your comment form here tonight
 - Mail comment form to:

Oklahoma Department of Transportation

Office of Public Involvement

200 NE 21st Street

Oklahoma City, OK 73105

- Fax comment form to (405) 521-6917
- Email comments to: PUBLICMEETINGS@ODOT.ORG

Information is available at <u>www.odot.org/publicmeetings</u>