

(from the SH-10 junction extending 6.18 miles east to the SH-100 junction, Muskogee and Sequoyah Counties, Oklahoma)

Open House

January 31, 2017



State Highway 10A Improvements Open House Purpose



- Explain purpose and need for SH-10A improvements
- Introduce 7 alternatives considered
- Present preferred alternative
- Receive public feedback/input on the project



State Highway 10A Improvements Existing Facility



- Two-lane facility
- Narrow lanes
- No shoulders
- Annual Average Daily Traffic
 - Current (2016) = 1,200 vehicles per day
 - Projected (2036) = 1,700 vehicles per day



State Highway 10A Improvements Purpose and Need

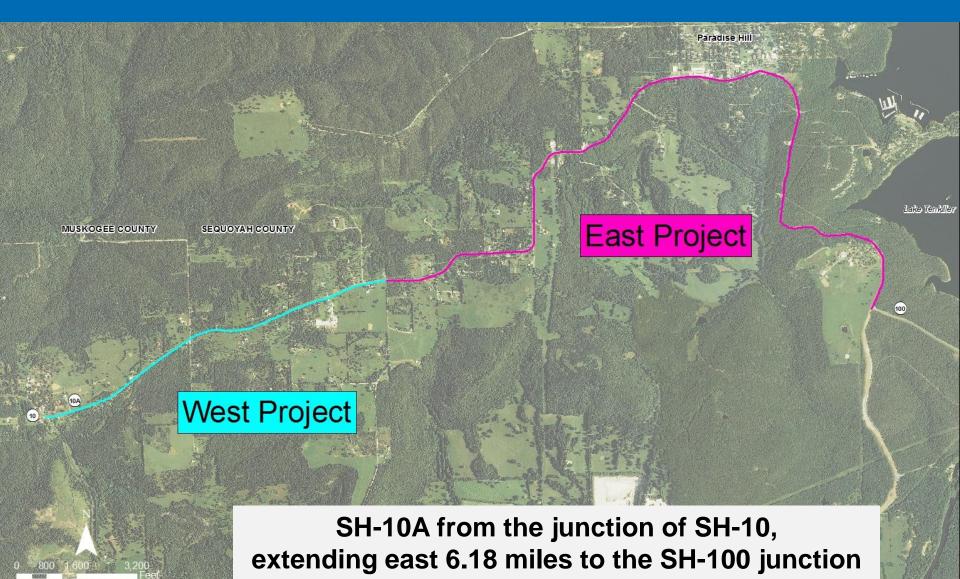


- Improve safety
 - 68 collisions recorded from 2005 through 2016
 - Approximately 3 times the statewide average number of collisions
 - Lacks adequate shoulders and clear recovery area
 - Limited sight distance due to substandard horizontal & vertical curves
- Improve facility to meet current design standards
 - Correct roadway deficiencies, enhance safety, and efficiently accommodate traffic
- Accommodate traffic bound for Lake Tenkiller



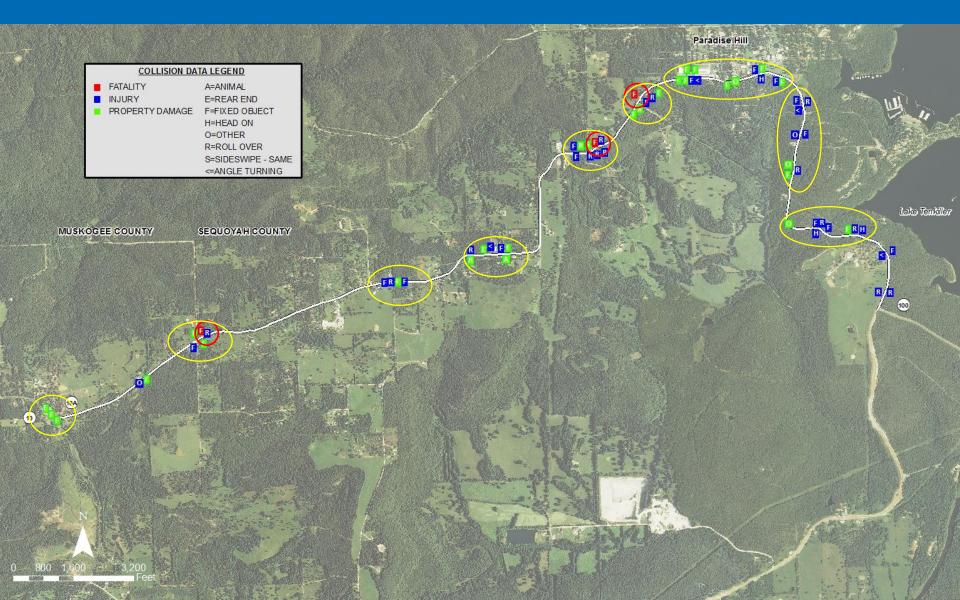
State Highway 10A Improvements Project Extents





State Highway 10A Improvements Collisions, 2005 - 2016





State Highway 10A Improvements Constraints Mapping



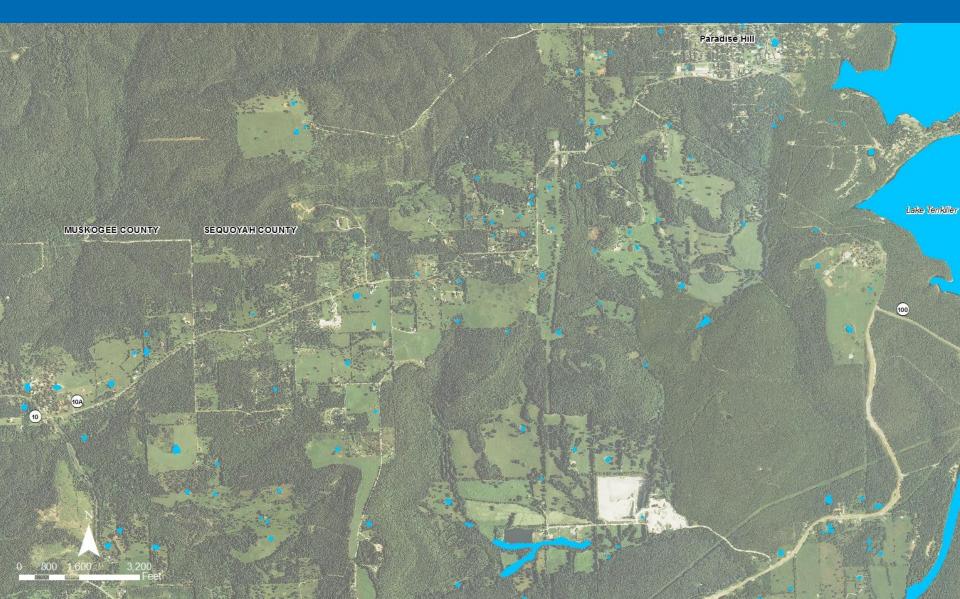
Reconnaissance Performed to Identify Constraints

- Wetlands and Waters
- Threatened & Endangered Species Critical Habitat
- Archeological Sites and Historic Properties
- Aboveground or Underground Storage Tanks
- Oil/Gas Wells
- Residences
- Commercial Facilities
- Utilities



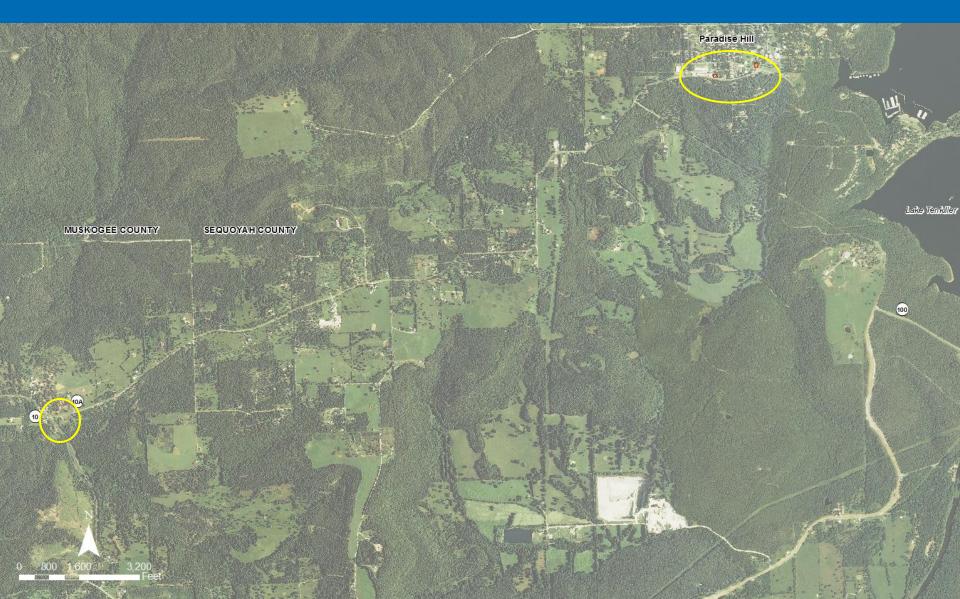






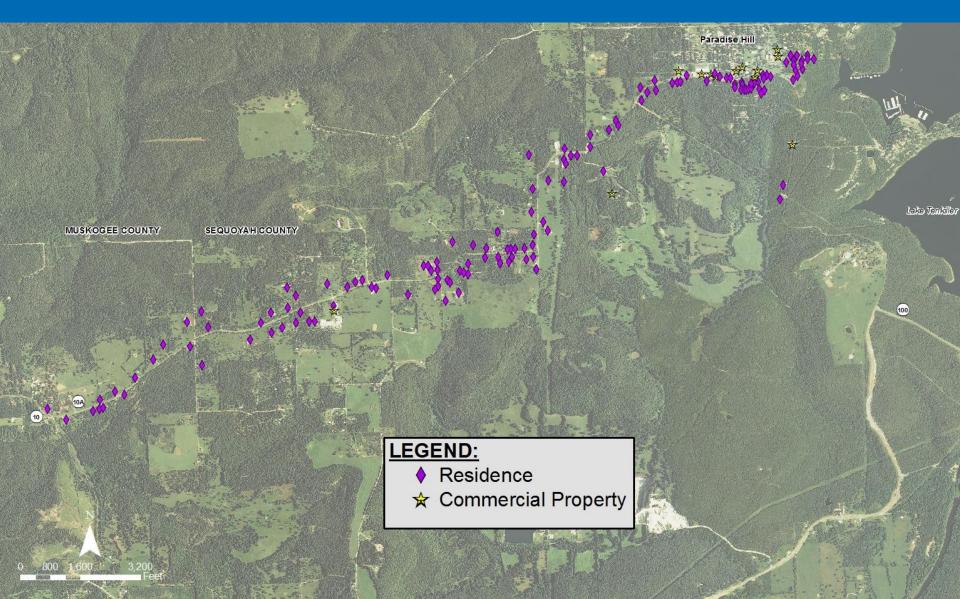
Underground and Aboveground Storage Tanks





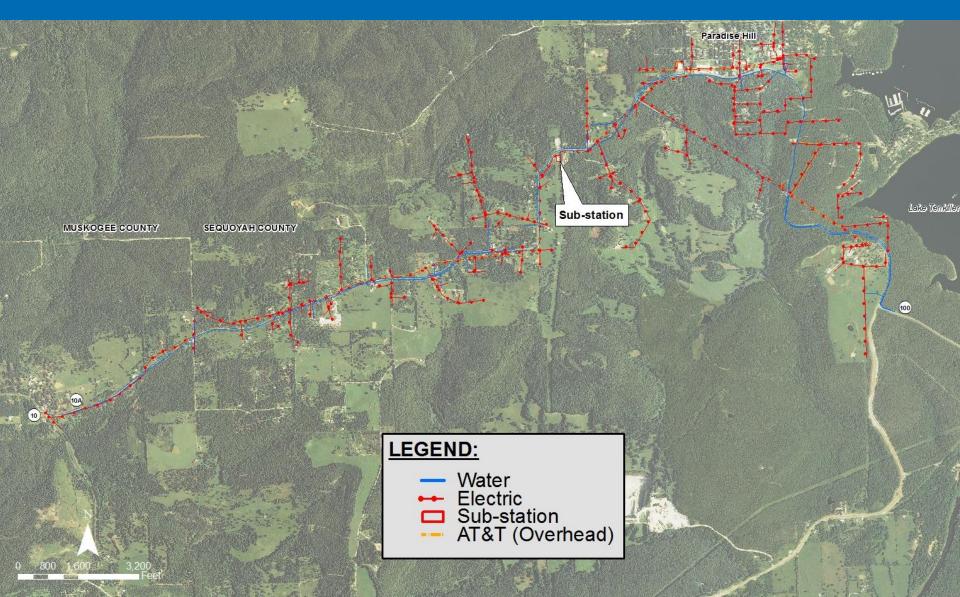
Residences and Commercial Facilities





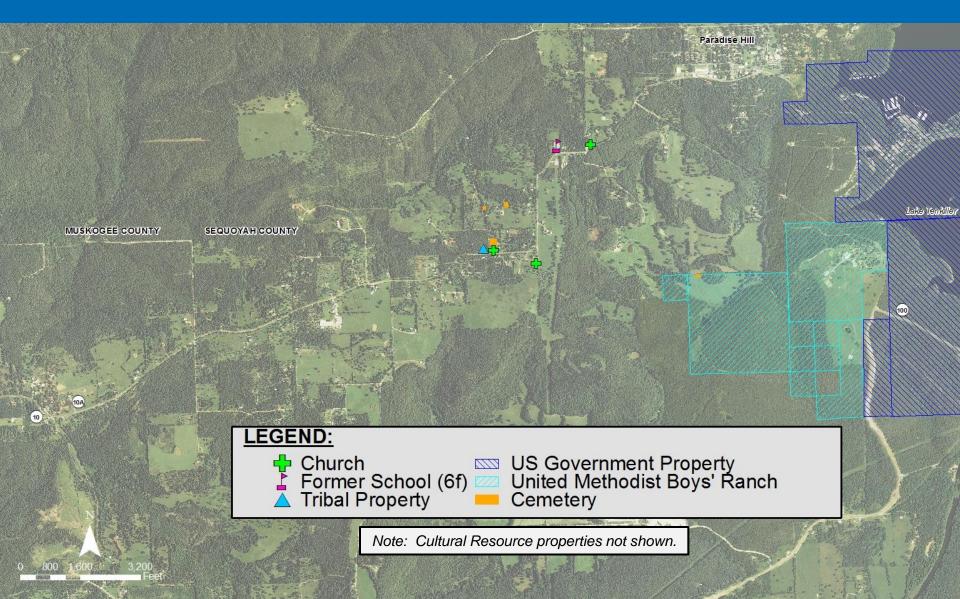
State Highway 10A Improvements Utilities





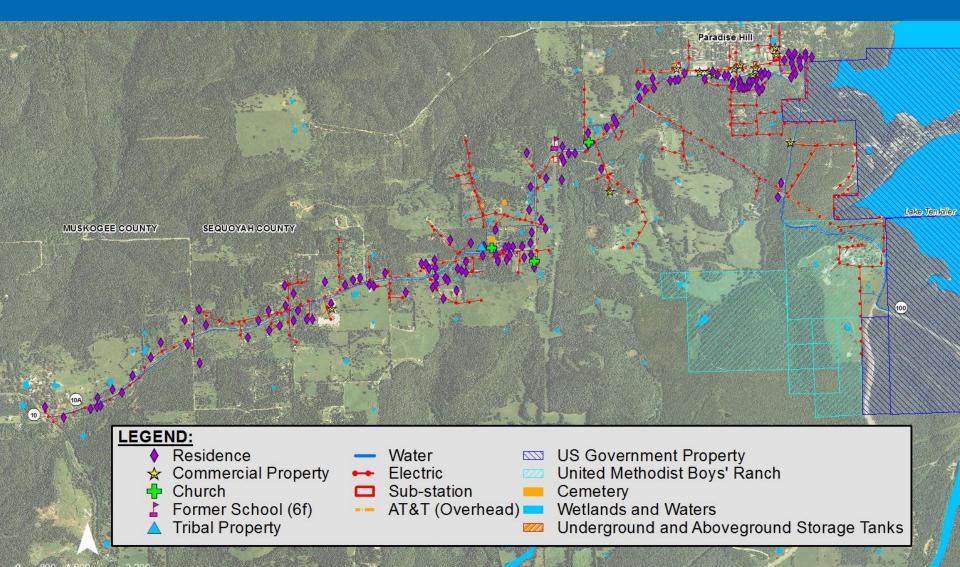
State Highway 10A Improvements Unique Properties





State Highway 10A Improvements Composite Constraints Map





State Highway 10A Improvements Proposed Project – Typical Section





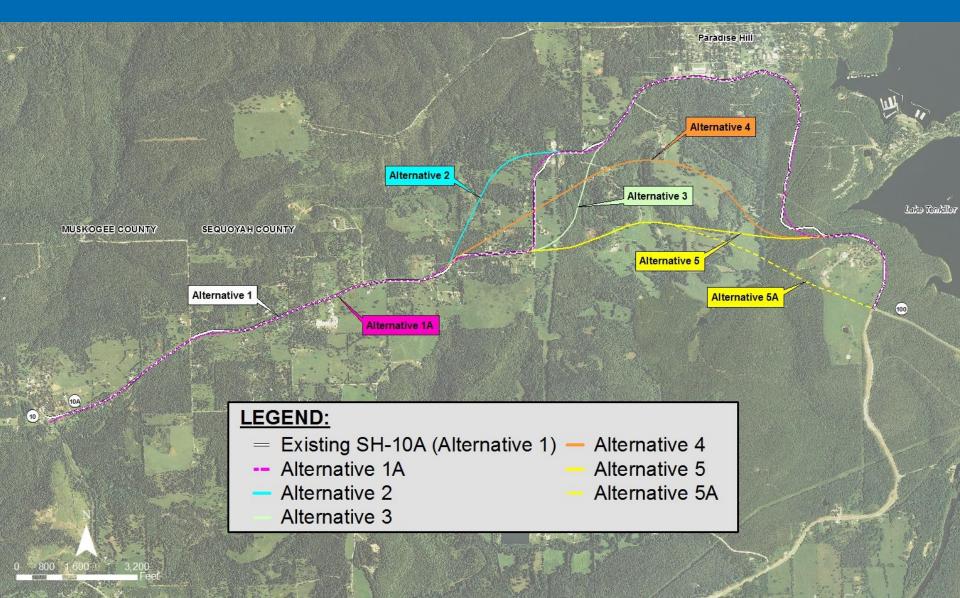
Proposed Improvements

- Two 12-foot lanes
- 8-foot paved shoulders
- 1:4 foreslopes
- 8-foot wide ditches
- 1:3 backslopes (maximum)
- Establish adequate clear recovery area



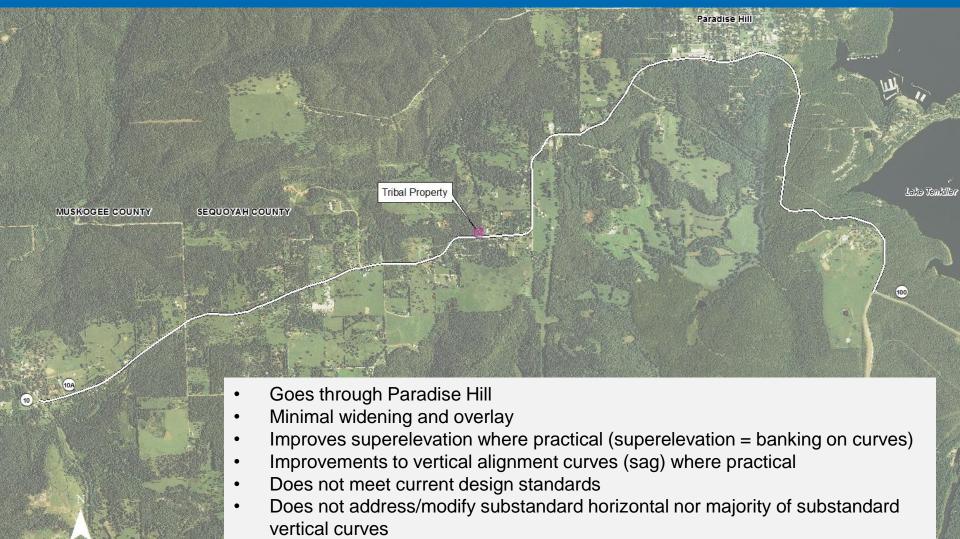
State Highway 10A Improvements Alternatives





State Highway 10A Improvements Alternative 1: On Existing Alignment

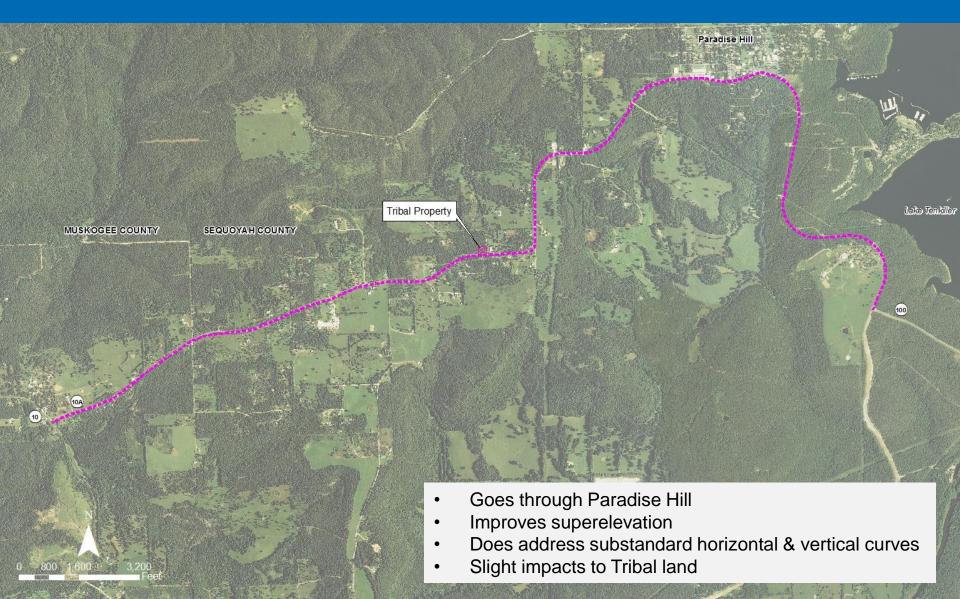




Slight impacts to Tribal land

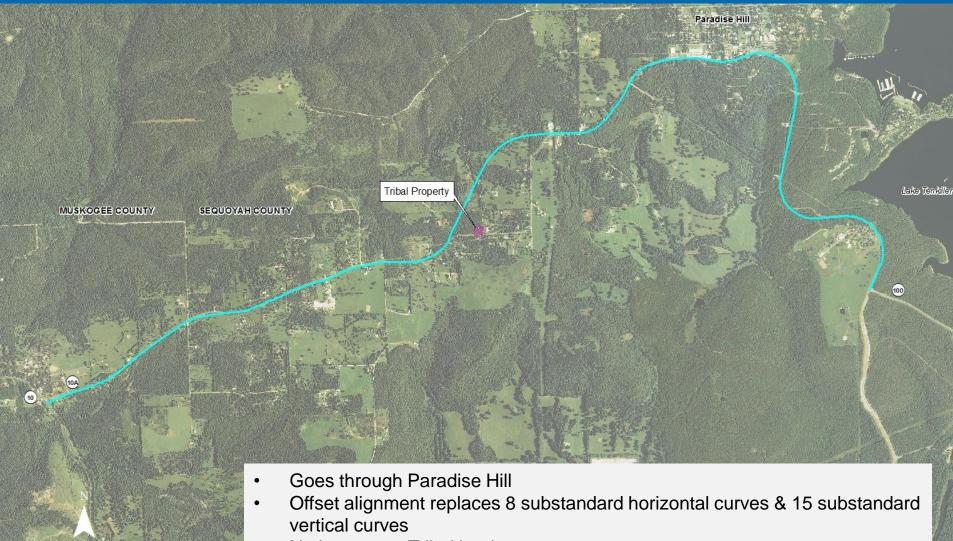
State Highway 10A Improvements *Alternative 1A: On or Near Existing Alignment*





State Highway 10A Improvements Alternative 2: West Offset

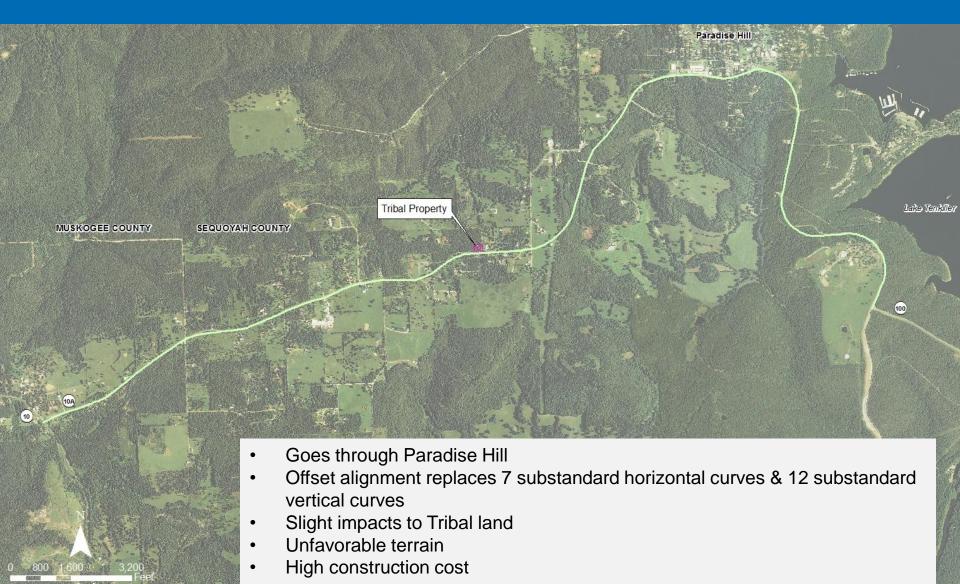




No impacts to Tribal land

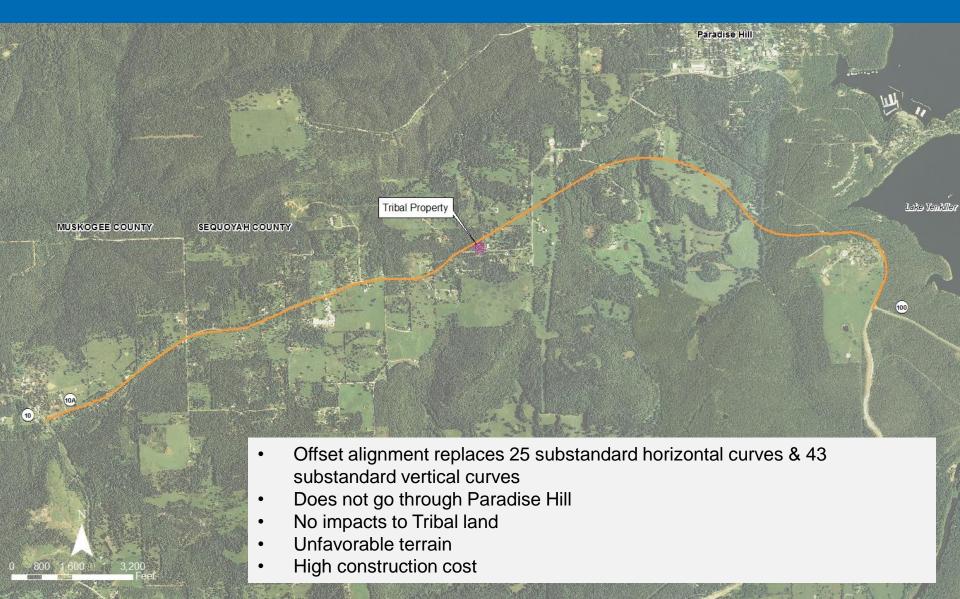
State Highway 10A Improvements Alternative 3: East Offset





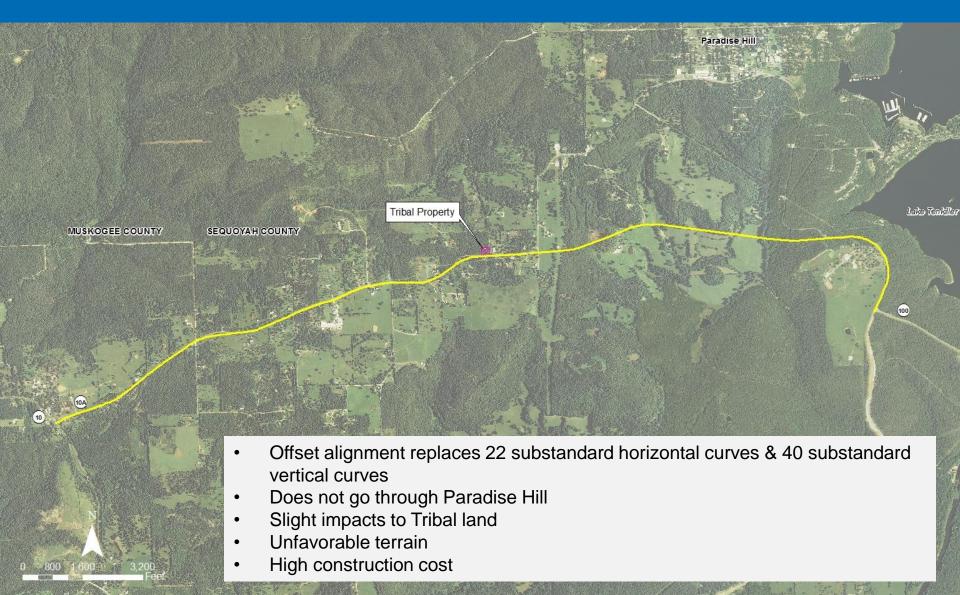
State Highway 10A Improvements *Alternative 4: South Offset*





State Highway 10A Improvements *Alternative 5: Southernmost Offset*





State Highway 10A Improvements *Alternative 5A: Southernmost Offset, Through Connection*





- Meets new construction criteria
- Offset alignment replaces 25 substandard horizontal curves & 45 substandard vertical curves
- Bisects United Methodist Boys' Ranch
- Slight impacts to Tribal land
- Unfavorable terrain
- High construction cost



Alternatives Comparison Purpose & Need: Correct Deficiencies, Improve Safety, Accommodate Traffic

Project Component*	On or Near Existing Alignment				Offset Alignment		
	Alternative 1: On Existing	Alternative 1A: On or Near Existing	Alternative 2: West Offset	Alternative 3: East Offset	Alternative 4: South Offset	Alternative 5: Southernmost Offset	Alternative 5A: Southernmost Offset Through Connection to SH-100
Geometric Design	•	\bigcirc	•	•	\bigcirc	0	\bigcirc
Shoulder Width	2' Paved	8' Paved	8' Paved	8' Paved	8' Paved	8' Paved	8' Paved
Design Exceptions Required	Numerous	8	7	7	3	3	1
Environmental Impacts	\bigcirc		\bigcirc	•	•	\bigcirc	\bigcirc
Cultural Resources	None Known	None Known	None Known	<1 Acre Potential Arch. Site	<2 Acre Potential Arch. Site	None Known	None Known
Potential AST/UST Impacts	2 Locations	2 Locations	2 Locations	2 Locations	1 Location	1 Location	1 Location
Wetlands	None	None	Approx. 0.1 Acre	Approx. 0.1 Acre	Approx. 0.7 Acre	Approx. 0.2 Acre	Approx. 0.2 Acre
Streams	Approx. 400 feet	Approx. 500 feet	Approx. 1,100 feet	Approx. 1,400 feet	Approx. 2,000 feet	Approx. 1,800 feet	Approx. 2,000 feet
Right-of-Way Impacts	\bigcirc	0	\bigcirc	\bigcirc	•	\bigcirc	•
Utility Costs (million)	Approx. \$1.8	Approx. \$1.7	Approx. \$1.5	Approx. \$1.6	Approx. \$1	Approx. \$1	Approx. \$0.8
Residential Relocations	<3	<3	<3	<3	<u>≥</u> 3	<3	<3
Commercial Impacts	Minimal; No Structures	Minimal; No Structures	Minimal; No Structures	Minimal; No Structures	Minimal; No Structures	Minimal; No Structures	Minimal; No Structures
US Government	Approx. 2 Acre	Approx. 3 Acres	Approx. 3 Acres	Approx. 3 Acres	Approx. 1 Acre	Approx. 1 Acre	None
Tribal Property	0.13 Acre	0.10 Acre	None Known	0.10 Acre	None Known	0.10 Acre	0.10 Acre
United Methodist Boys' Ranch	Approx. 7 Acres	Approx. 9 Acres	Approx. 9 Acres	Approx. 9 Acres	Approx. 11 Acres	Approx. 11 Acres	Approx. 11 Acres
Cost		\bigcirc	\bigcirc	•	•	•	•
Total Cost (million)	Approx. \$12	Approx. \$18	Approx. \$18	Approx. \$25	Approx. \$24	Approx. \$26	Approx. \$28
Highway Access to Paradise Hill	•	•		•	•	•	•
Through Traffic Mobility		\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Constructability	\bigcirc	•	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Meets Purpose & Need?	•	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

*All impact estimates are preliminary only and subject to change upon completion of survey and further design.

Alternative Analysis



- Eliminate Alternative 1: only minimal improvements
- Eliminate Alternatives 4, 5, and 5A:
 - Alignments offset south of Paradise Hill
 - Do not provide highway access to Paradise Hill destinations
- Alternatives 1A, 2, and 3:
 - Eliminate Alternative 3: most cultural resource impacts and most expensive
- Alternatives 1A and 2:
 - Essentially same alignment, but Alternative 2 includes a short offset segment
 - Alternative 2 has no known tribal land impacts, is more constructible, and better meets current design criteria than Alternative 1A

Preferred Alternative



Alternative 2: West Offset

- Disadvantage:
 - Some residential impacts
- Advantages:
 - Highway access to Paradise Hill
 - Good constructability and complies with design criteria
 - No known impacts to cultural resources
 - Comparable wetlands/waters impacts to Alternatives 3, 4, 5, & 5A
 - No Tribal land needed
 - Lower total project cost than Alternatives 3, 4, 5, & 5A
 - Fewer utility conflicts than Alternatives 1, 1A, & 3

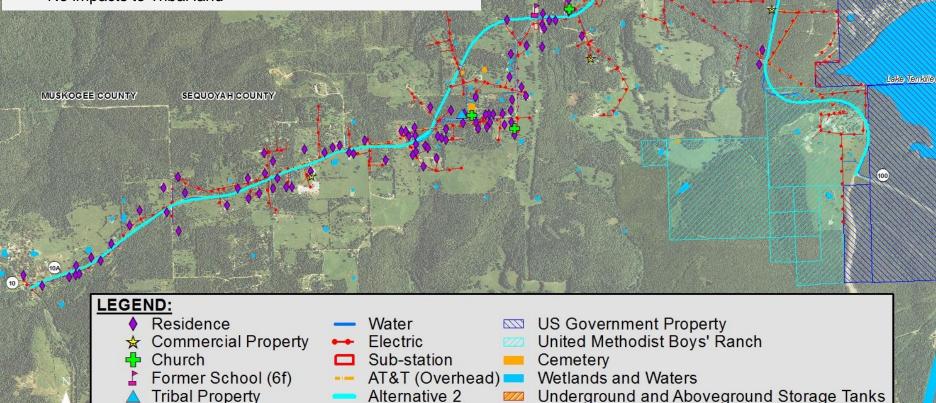


State Highway 10A Improvements Preferred Alternative 2: West Offset



Paradise Hill

- Goes through Paradise Hill
- Offset alignment meets new construction criteria
- Offset segment replaces 8 substandard horizontal curves & 15 substandard vertical curves
- No impacts to Tribal land



Public Participation Program



- Stakeholder Meeting held October 18, 2016
 - Stakeholders included Agencies, Elected Officials, and Businesses
 - Received 5 written comments and/or concerns
 - General support of the Preferred Alternative
- Tonight's Open House
 - Comments due by February 14, 2017
 - Review all comments
- Complete design report



State Highway 10A Improvements What Happens Next?



- Complete design report
- Complete Environmental Studies, Survey, and Design Plans
- Public Outreach after Environmental Studies Complete
- Begin Right-of-Way Acquisition (Year 2019)
- Begin Utilities Relocation (Year 2019)
- Begin Construction (Year 2021)



Submit Your Comments



- Leave your written comments with us tonight.
- By mail:

Oklahoma Department of Transportation Environmental Programs Division 200 N. E. 21st Street Oklahoma City, OK 73105

- By fax: (405) 522-5193
- By website: www.odot.org/publicmeetings
- By Email:

odot-environment@odot.org

• Please submit your comments by February 14, 2017.





