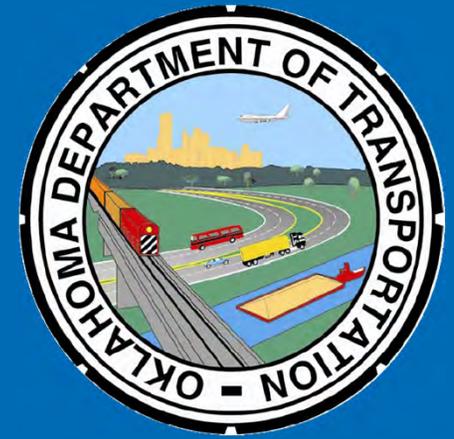


US 81 Bypass of Chickasha Environmental Assessment Public Meeting



March 14, 2013

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US 81 Bypass Environmental Assessment

Introductions



- ODOT
- FHWA
- SAIC



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Meeting Purpose



- Present need for bypass
- Provide responses to 10/04/11 public meeting comments
- Present socioeconomic study results
- Introduce 3 alignments developed in response to public comments
- Obtain input and feedback

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Purpose and Need



- Provide Improved Route for North/South US 81 Travel through Chickasha
 - Reduce Travel Time and Delays for Traffic Traveling through Chickasha
 - Reduce Congestion along US 81 through Chickasha Central Business District
 - Improve Safety for Motorists and Pedestrians along Existing US 81 through Chickasha

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Traffic Data & Analysis Highlights



- Video of Existing Truck Traffic & Critical Turning Maneuvers
- Traffic Data & Level of Service
- Crash Data & Safety Analysis

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Purpose and Need



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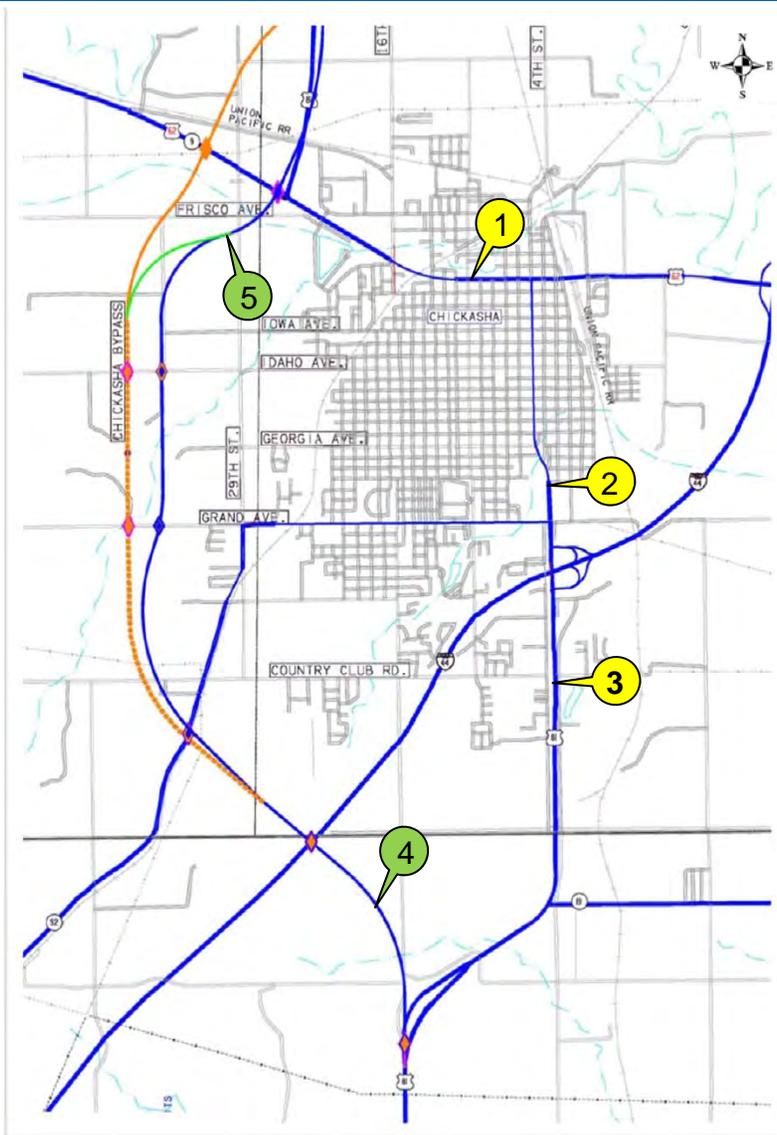
Traffic Data & Analysis Highlights



- Video of Existing Truck Traffic & Critical Turning Maneuvers
- Traffic Data & Level of Service
- Crash Data & Safety Analysis

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Daily Traffic Along US 81 - Without/With Bypass (2012,2040)

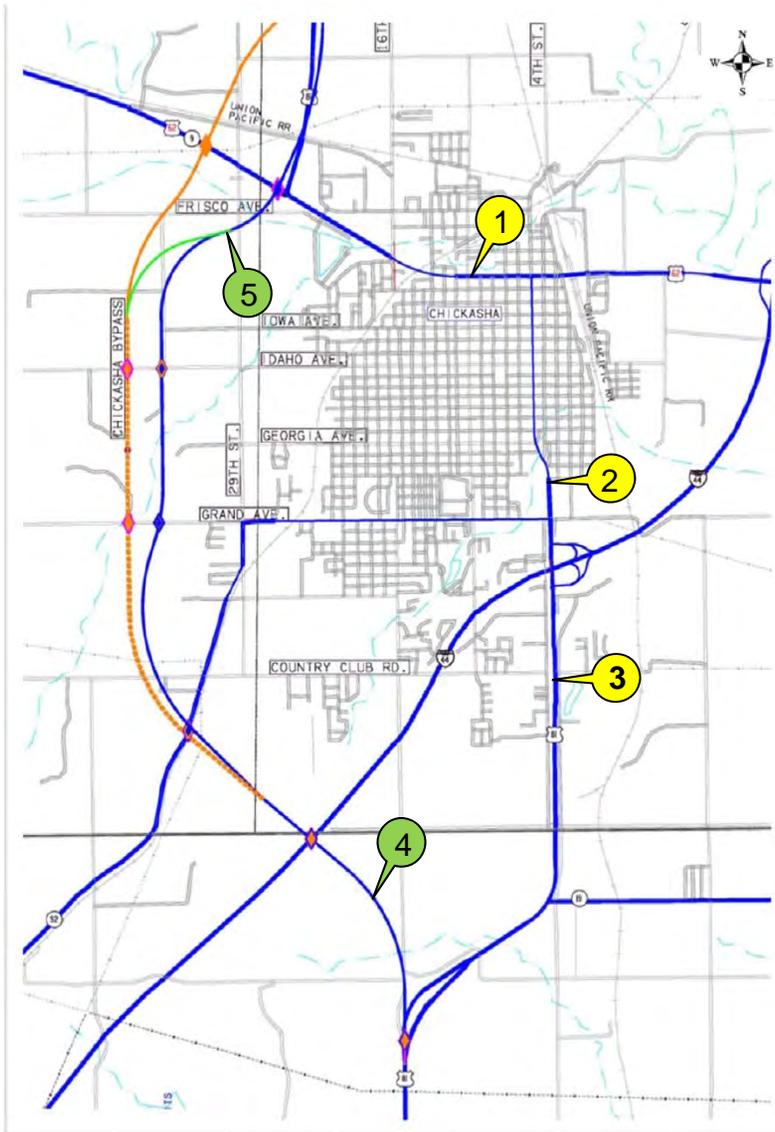


Annual Average Daily Traffic

Location	2012 w/o Bypass	2012 w/ Bypass	2040 w/o Bypass	2040 w/ Bypass
1	11,280	8,770	17,600	13,700
2	14,900	11,410	23,300	17,800
3	17,680	14,080	27,580	21,950
4	n/a	5,360	n/a	8,400
5	n/a	4,430	n/a	6,920

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Trucks Along US 81 - Without/With Bypass (2012, 2040)



Daily Truck Traffic				
Location	2012 w/o Bypass	2012 w/ Bypass	2040 w/o Bypass	2040 w/ Bypass
1	1,900	1,200	3,000	1,900
2	2,000	1,100	3,120	1,720
3	2,600	1,670	4,060	2,600
4	n/a	1,230	n/a	1,920
5	n/a	1,020	n/a	1,600

Excessive truck traffic through Downtown Chickasha

- Affects Traffic Operations & Safety
- Restricts Sight Distance



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Future Level of Service (LOS) Along US 81 – Without Bypass (2040)



2040 Without Bypass



LOS Legend:

- B 
- C 
- D 
- E 
- F 

Heavy Left Turns at US 81/Grand Avenue Intersection

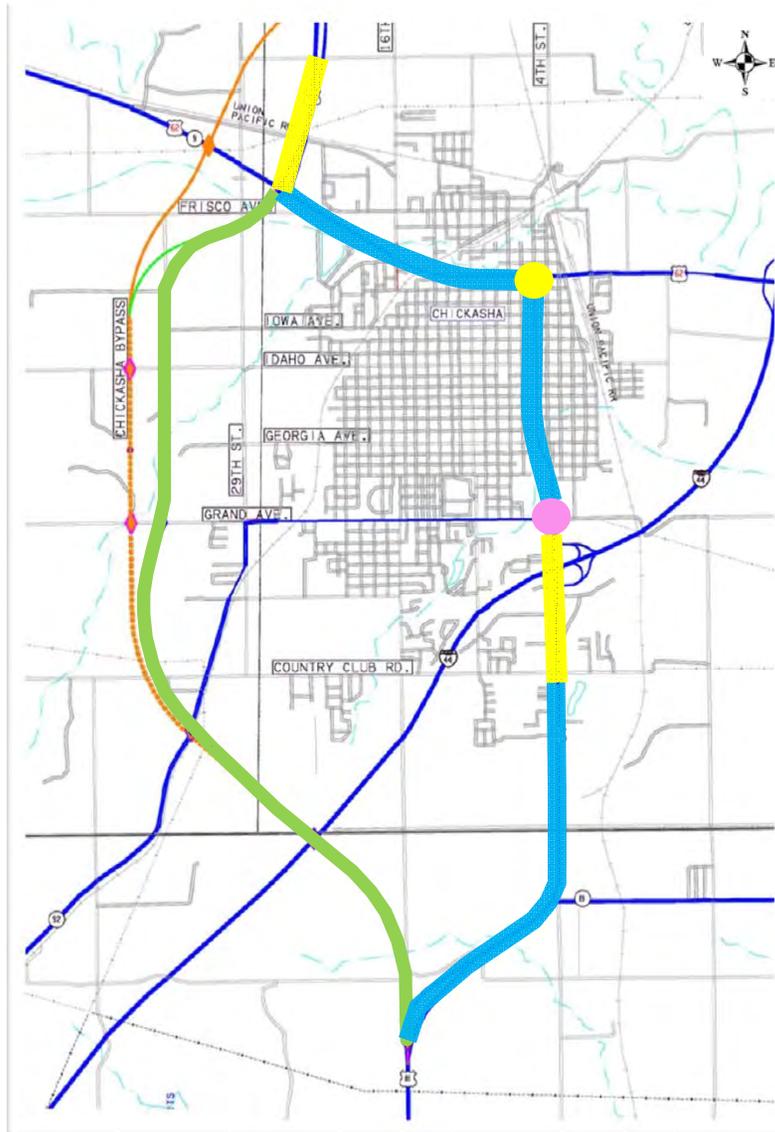
Long Queues & Excessive Delay Will Occur Along US 81 Extending South From US 81/US 62 Intersection

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Future Level of Service (LOS) Along US 81 – With Bypass (2040)



2040 With Bypass



LOS Legend:

- B 
- C 
- D 
- E 
- F 

Improved Traffic Flow & Operations

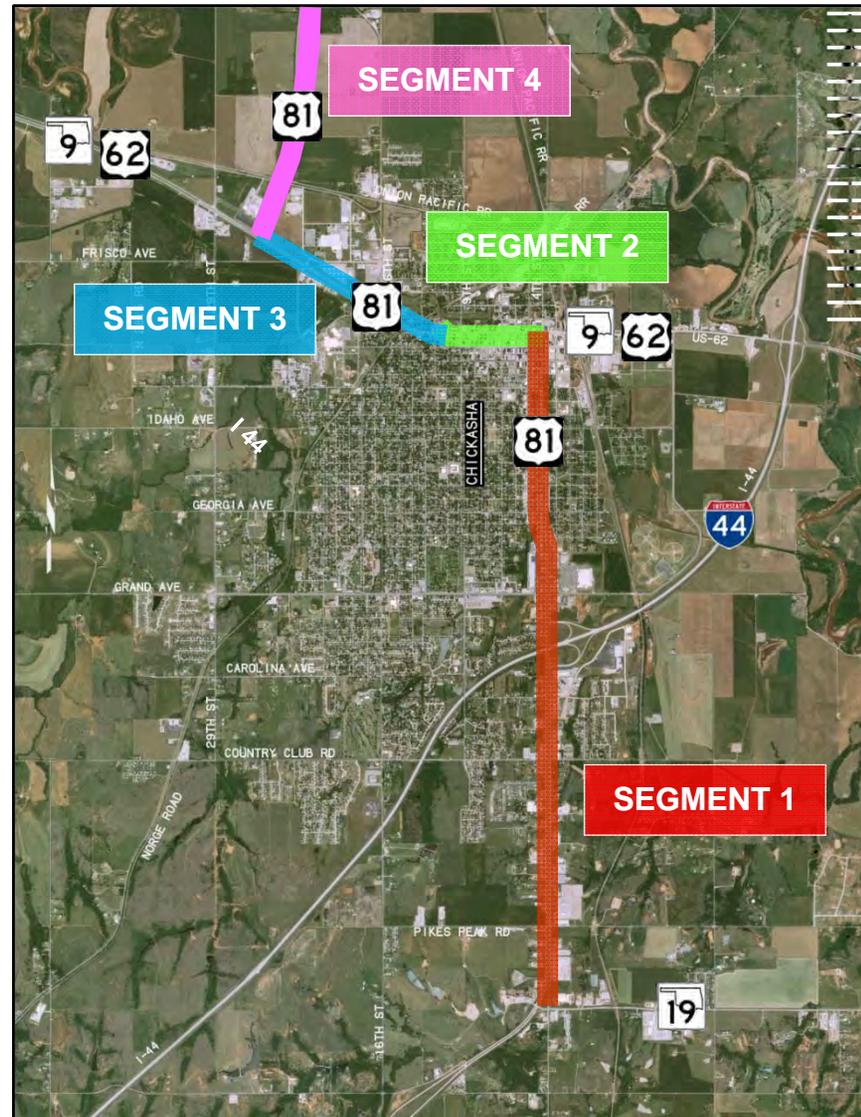


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Five-Year Crash Data Along Existing US 81 (Years 2007 – 2011)

Total Crashes = 738
Injury Crashes = 218
Fatalities = 4



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Five-Year Crash Data Along Existing US 81 (Years 2007 – 2011)



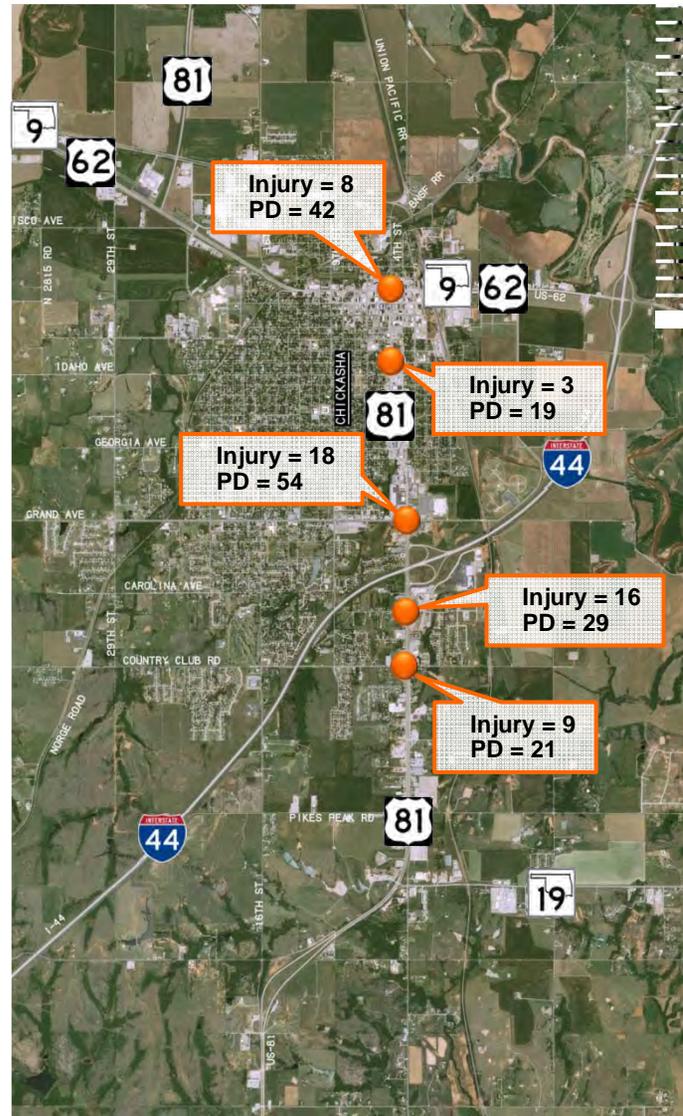
Five-Year Crash Data (2007 – 2011)			
Crash Type	Number of Crashes	Crash Rate Along US 81 (per 100 million vehicle miles)	Statewide Average Crash Rate for Similar Facility (per 100 million vehicle miles)
Segment 1 - US 81 from SH 19, north to US 62			
Fatality	2	2.2	1.18
Injury	175	190.7	53.34
Total	603	657.2	153.9
Segment 2 – US 62 from US 81, west to 11th Street			
Fatality	1	11.1	1.03
Injury	25	277.0	124.21
Total	91	1008.1	377.75
Segment 3 – US 62 from 11th Street, west to US 81 North			
Fatality	1	7.3	1.18
Injury	11	80.1	53.34
Total	34	247.6	153.9
Segment 4 – US 81 north 1.5 miles from US 62			
Fatality	0	0.0	1.57
Injury	7	63.4	56.01
Total	10	90.6	178.52

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Five-Year Crash Data Along Existing US 81 (Years 2007 – 2011)



High Crash Intersections with Injury and Property Damage



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Travel Time



From	To	Travel Time Data	
Northern Terminus: North of the US 81/ US 62 intersection	Southern Terminus: South of the US 81/ SH 19 East intersection	<i>Free Flow Speed Conditions along Existing US 81</i>	10 minutes
		2012 “No-Build” Peak Conditions	15 – 25 minutes ¹
		2040 “No-Build” Peak Conditions	30 – 45 minutes ¹
		2040 “Build” Peak Conditions along the Bypass	8 – 10 minutes
		2040 “Build” Peak Conditions along Existing US 81	15 – 20 minutes

1. Travel time subject to increase when over length and/or over width trucks are present

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Improvement of Existing US 81



Improvement of Existing US 81 to LOS C

- Widen to 6-Lane and Continuous Left-Turn Lane:
US 81/US 62 (Choctaw) to Minnesota; 5 Blocks
- Widen to 8-Lane and Continuous Left-Turn Lane:
Minnesota to Grand; 16 Blocks
- Significant Right-of-Way Acquisition Required
- Impacts:
 - Loss of Buildings, Businesses, and Parking throughout Corridor
 - Loss of All Structures Adjacent to US 81, Choctaw to Kansas
 - Downtown Historic District and Structures

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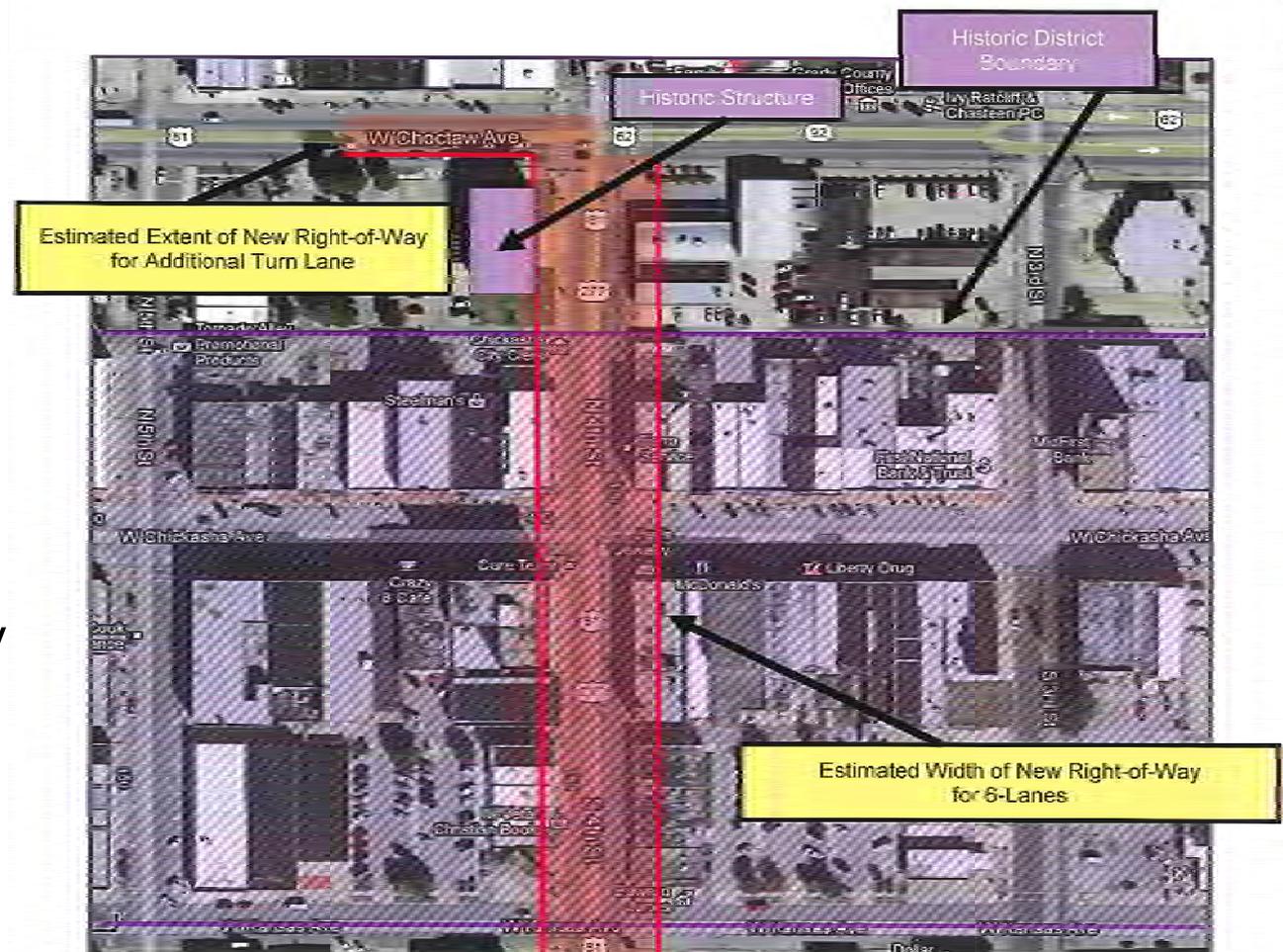
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Improvement of Existing US 81



Improvement of Existing US 81 – Likely Not Feasible

- Funding likely unavailable due to impacts to historic resources
- Extensive right-of-way impacts



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Proposed Project

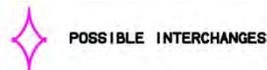
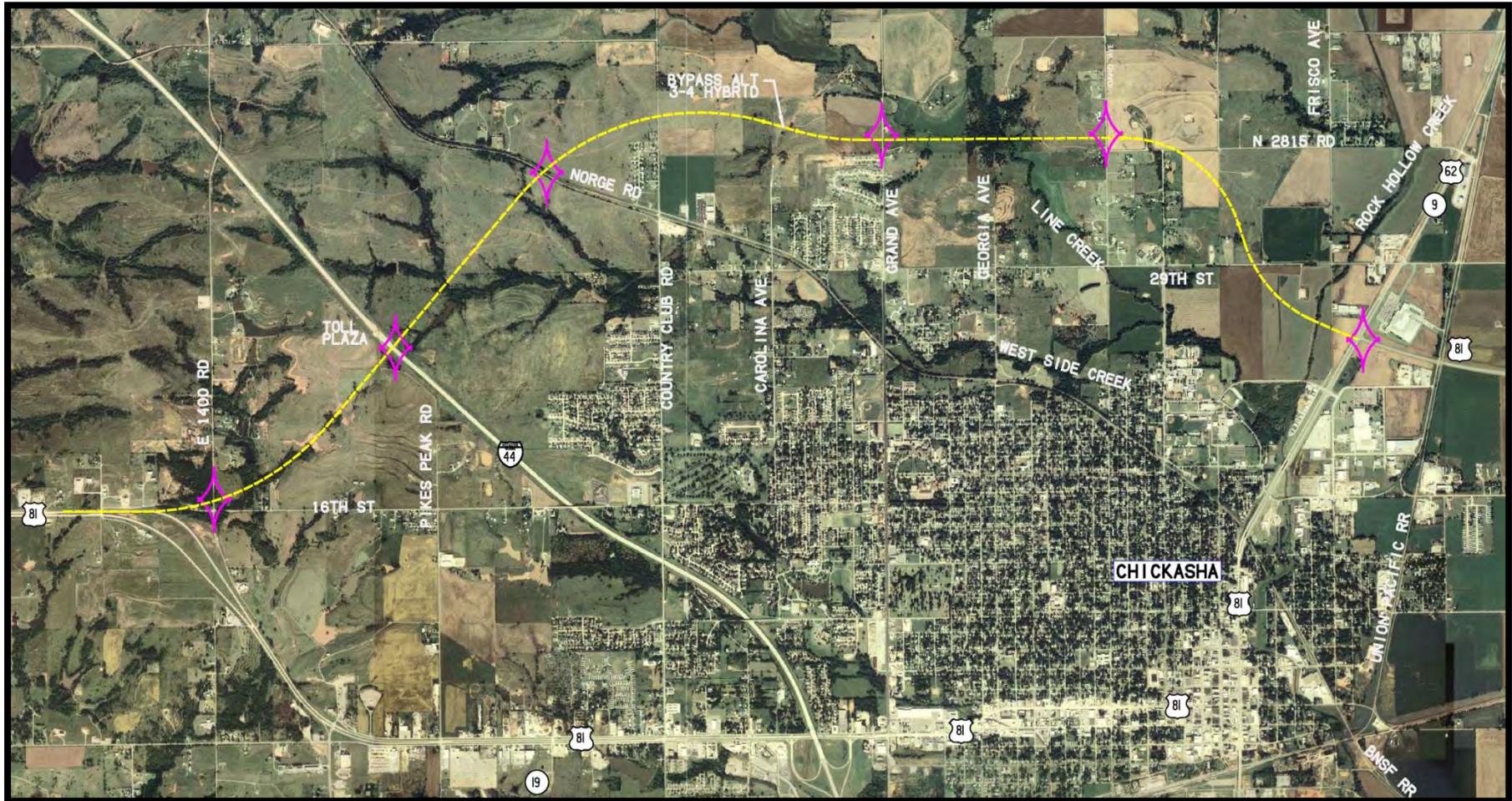


- Controlled-Access 4-Lane Divided Western Bypass of Chickasha
- From Curve North of the US 81/SH 19 West Junction North to US 81/US 62

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Alignment Presented at October 2011 Meeting
(from 2007 Corridor Study)



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Public Comments from First Meeting



Public Comments from First Meeting:

- Suggested I-44 as US 81 truck bypass route
- Concerns regarding proximity to:
 - Large church
 - Residential neighborhood
- Concerns over socioeconomic impacts

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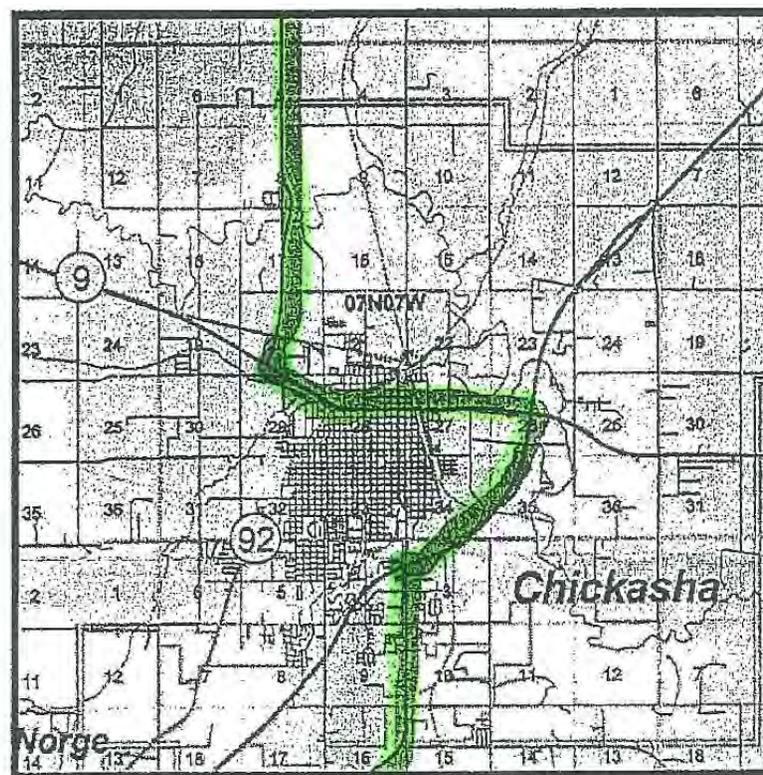


Public Comments: I-44 as US 81 Truck Bypass Route

Public Comments: I-44 as US 81 Truck Bypass Route

Good Idea, but Some Significant Complications:

- Would require payment of H. E. Bailey Turnpike toll
- Turnpike toll gate restrictions
 - 15' 3" – maximum height
 - 9' 6" – maximum cash width
 - 11' 6" – maximum pikepass width
 - 80,000 lbs – maximum weight



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Public Comments: I-44 as US 81 Truck Bypass Route

Public Comments: I-44 as US 81 Truck Bypass Route

- Cannot require all truck traffic to use I-44, as some truck traffic has local destination in Chickasha
- Longer route than going through town
- National Highway System routes need to provide access to truck traffic
- Based upon ODOT's understanding of state statutes, no authority to restrict truck traffic

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Public Comments: I-44 as US 81 Truck Bypass Route



Public Comments: I-44 as US 81 Truck Bypass Route

- Remove state highway designation from downtown route
- Dual designation for I-44/US 81
- Approximate cost of improvements = \$184M
- Limited options for capacity expansions beyond year 2040
- Will not relieve congestion along US 62 west of US 81 (Choctaw)
- Increase congestion on US 62 east of US 81
- Conclusion: Not the most feasible alignment

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Public Comments from First Meeting

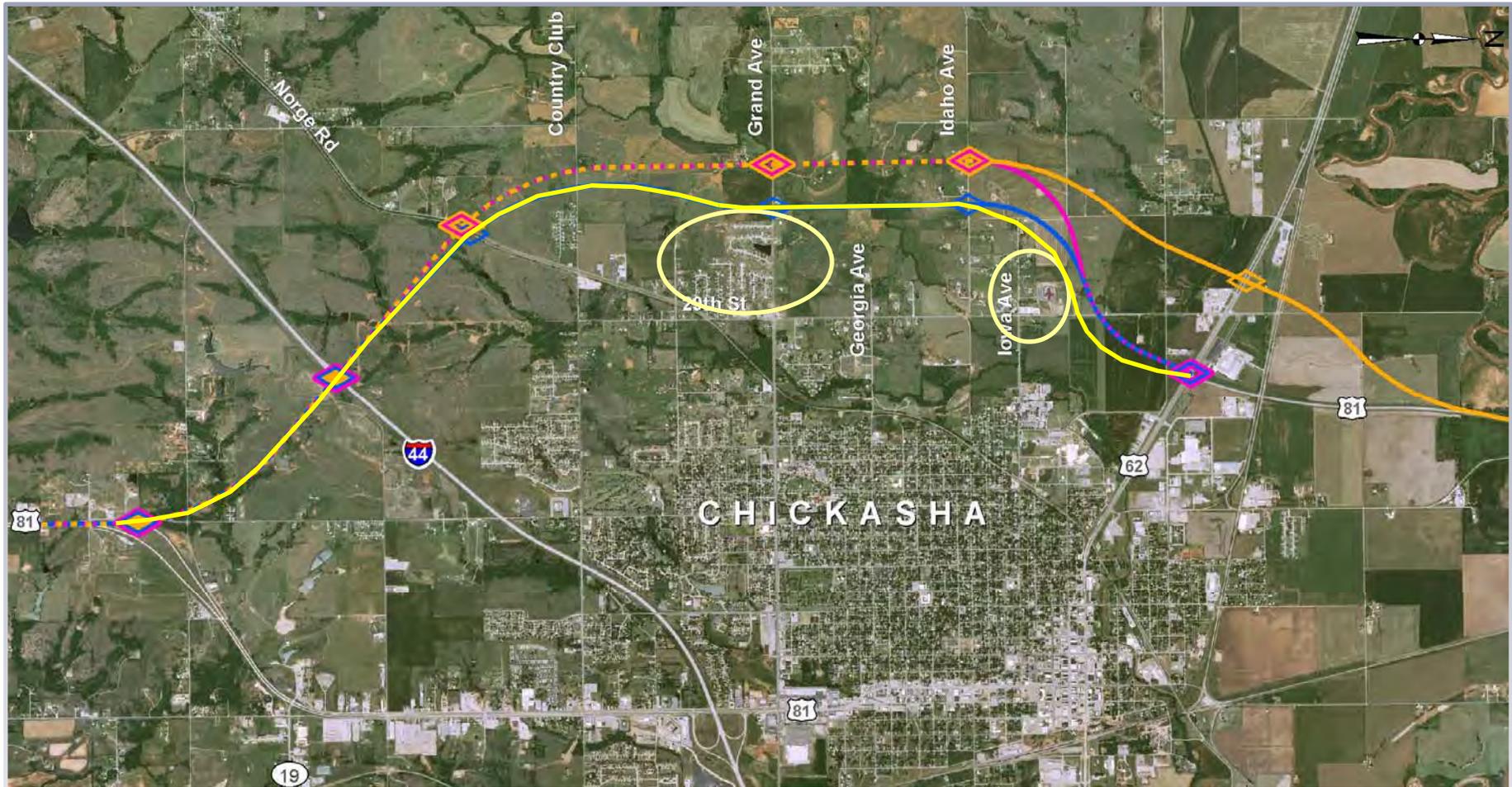


Public Comments from First Meeting:

- Suggested I-44 as US 81 truck bypass route
- Concerns regarding proximity to:
 - Large church
 - Residential neighborhood
- Concerns over socioeconomic impacts

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Public Comments: Proximity to Church and Neighborhood



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Public Comments from First Meeting



Public Comments from First Meeting:

- Suggested I-44 as US 81 truck bypass route
- Concerns regarding proximity to:
 - Large church
 - Residential neighborhood
- Concerns over socioeconomic impacts

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Public Comment: Concerns over Socioeconomic Impacts



- Concerns over Socioeconomic Impacts
 - Andy Atlas, AICP
 - Vice-President, CP&Y Inc.

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Purpose of the Socioeconomic Assessment



Purpose of the Study

- To describe the social and economic conditions of the existing US 81 corridor and evaluate the socioeconomic impacts of a proposed bypass on the existing corridor

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Aerial of the Study Area



Industrial Facilities

Historic District, Downtown

**Existing Business District
(along S. 4th St / US 81)**

I-44 Interchange



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Socioeconomic Assessment



Study Methodology

- Literature Review
- Data Analysis
 - U.S. Census
 - American Community Survey
 - Floodplain Map
 - Traffic Data
- Interviews with local residents
- Field Investigations
- Review of previous public involvement documentation

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Existing Conditions / Environmental Consequences



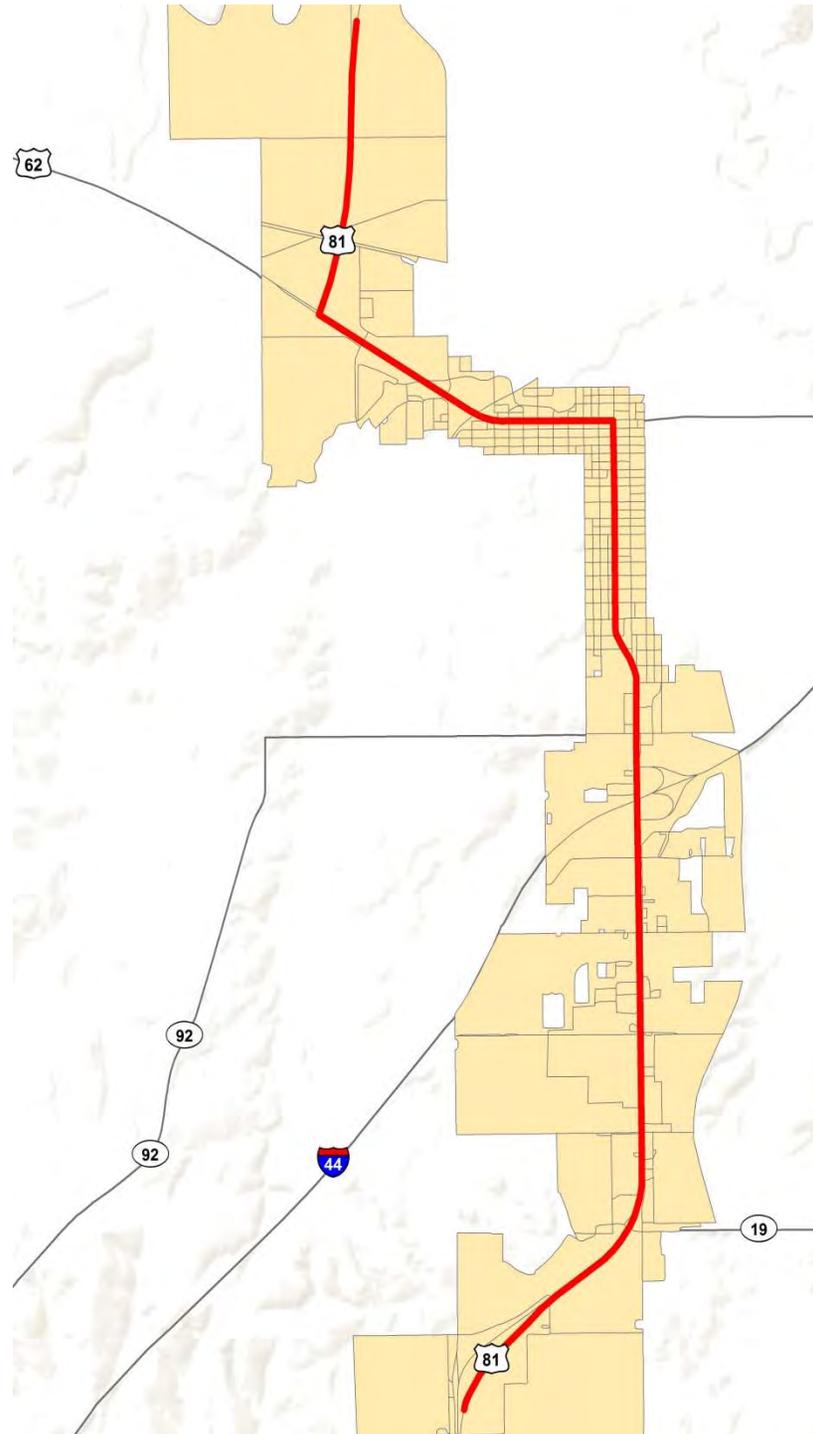
Land Use

- 290 businesses on existing corridor
- 16 percent vacancy rate
- 23 percent of businesses provide travel-related services
 - Automotive
 - Dining
 - Accommodation
 - Convenience stores



Demographic Study Area

Census blocks within 500 feet of the existing US 81 corridor



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Existing Conditions / Environmental Consequences



Population and Demographic Characteristics

- Study Area population declined between by 4.9 percent between 2000 and 2010
- Chickasha's population is expected to grow to approximately 19,260 residents by 2030
- The ethnicity in the study area and the City is predominantly White (non-Hispanic)

Population Change 2000-2010

Year	State of Oklahoma	Grady County	City of Chickasha	Study Area*
Percent Change 2000-2010	8.7%	15.2%	1.2%	-4.9%
2010	3,751,351	52,431	16,036	2,737

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Existing Conditions / Environmental Consequences



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Existing Conditions / Environmental Consequences



Transportation Systems and Mobility Patterns

- Truck traffic on existing US 81 would be reduced from under the Build scenario compared to the No-Build scenario
- Four traffic fatalities in corridor from 2007 – 2011, including one pedestrian
- Traffic projections show that 2040 traffic on existing US 81 between US 62 and I-44 would exceed 2012 traffic by between 19 and 24 percent
- Overall traffic on US 81 (bypass and existing combined) would be more than 1,000 vehicles per day higher than No Build

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Existing Conditions / Environmental Consequences



Economic Conditions

- Annual average unemployment of 5.8 percent in Grady County was lower than the statewide rate of 6.2 percent in 2011
- Primary employment industries in Chickasha are: social services, manufacturing, and retail trade
- Almost half of Grady County labor force (48.5 percent) commutes outside of Grady County
- Chickasha poverty rate of 21.6 percent is higher than County and State
- Sales tax revenues grew by two percent from 2009 to 2012 to \$862,000

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Conclusions



Competing Goals:

- General economic revitalization of the community
- Maintaining vitality of individual businesses



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Conclusions



Potential **costs** to the community of a bypass

- Potential closure of some travel-related businesses
- Cost will tend to be short-term as travel increases on existing US 81

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Conclusions

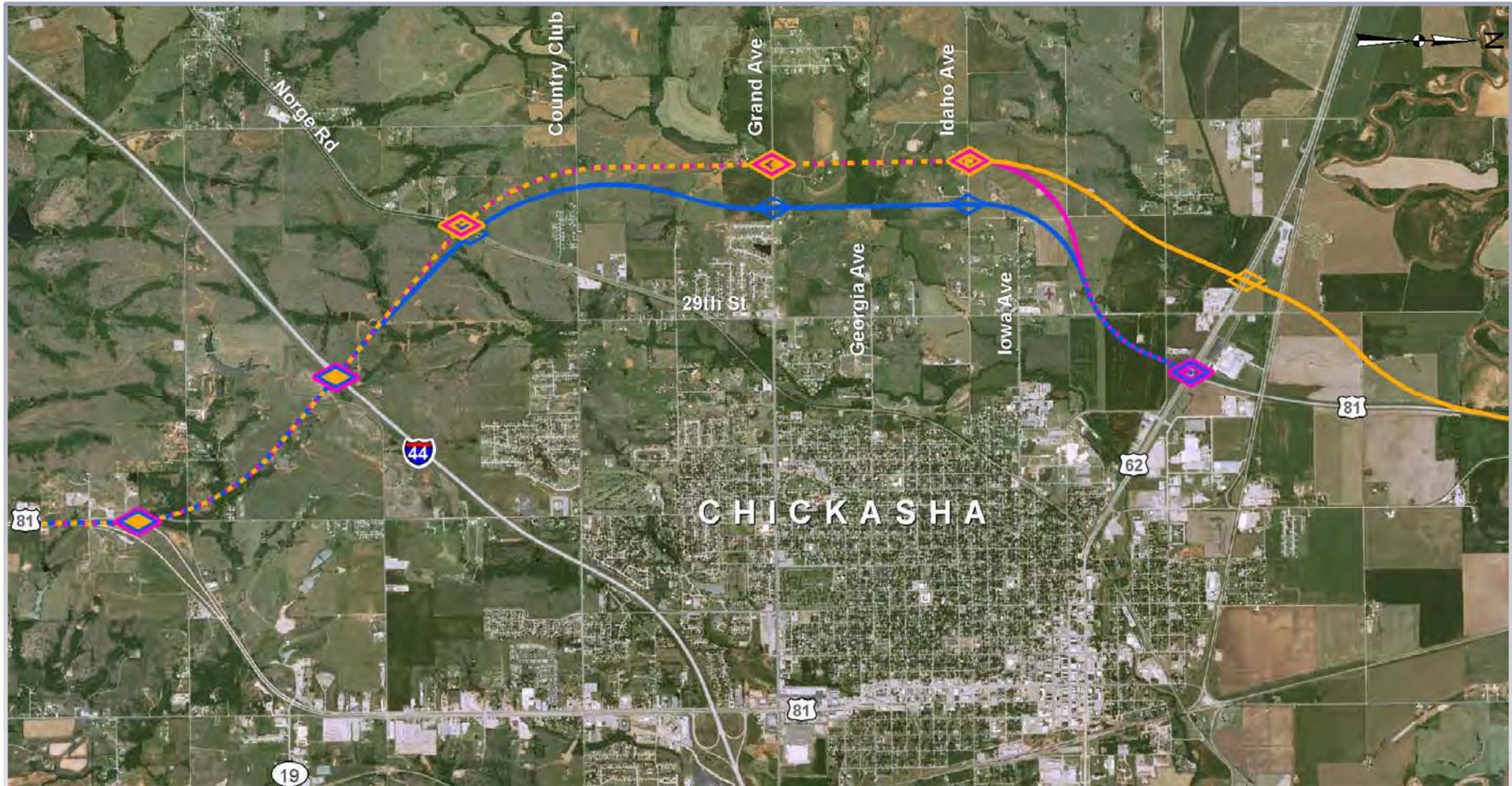


Potential **opportunities** to the community of a bypass

- Increased traffic and business through Chickasha
- Revitalization of existing US 81 corridor
- Improved Safety
- Trucks will be able to move through town more quickly
- Economic development opportunities along bypass route at interchanges

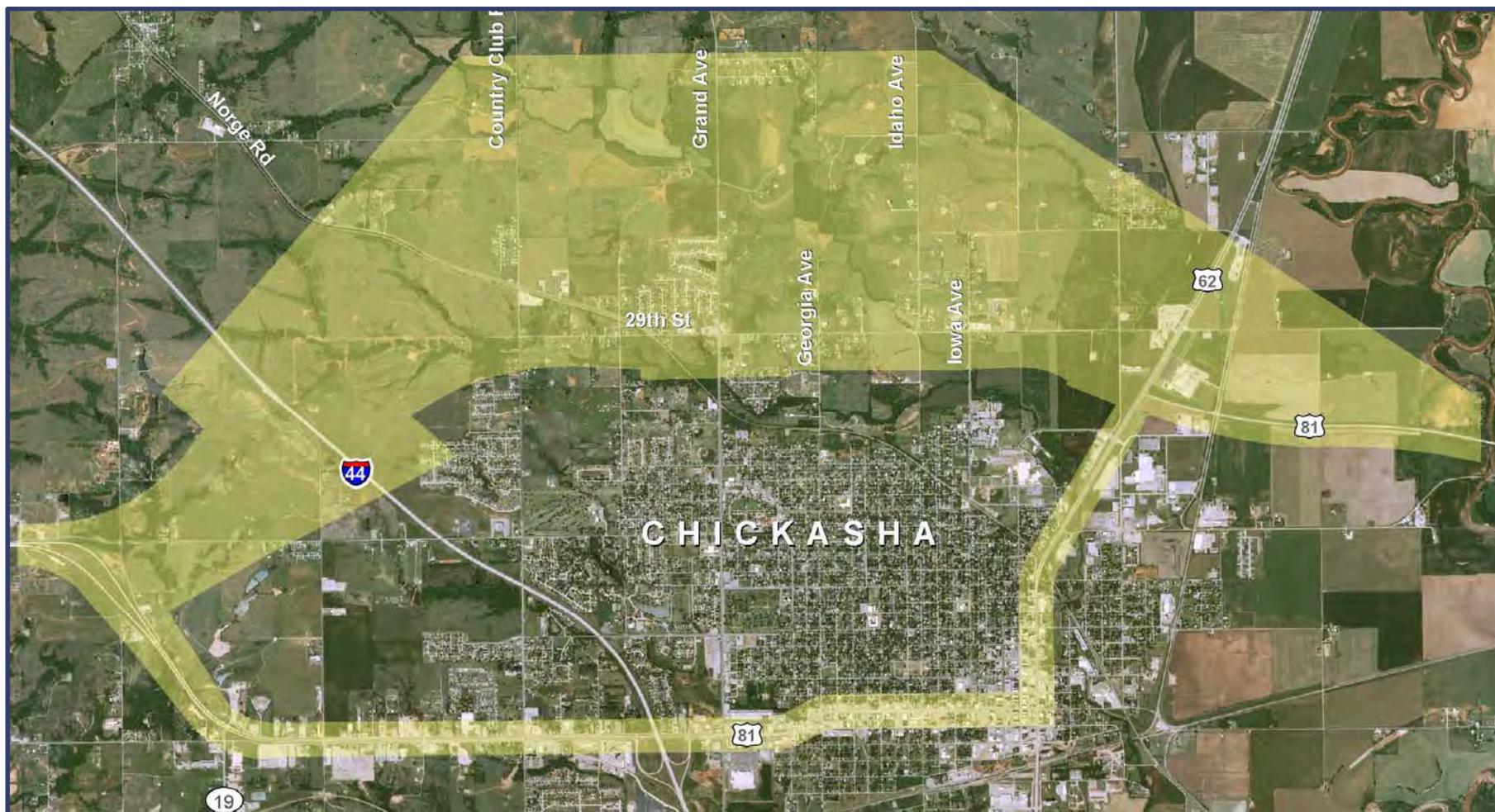
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Bypass Alignments under Consideration



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Updated Environmental Assessment Study Area



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Comparison of Bypass Alignments



Alternative	100-Year Floodplains (linear feet)	NWI Wetlands (linear feet)	Prime Farmlands (acres)	Potential Noise Impacts	Potential for Hazardous Waste Impacts	Local Access	Estimated # of Relocations	Level of Service	Estimated Construction Cost (\$M)
No-Build	0	0	0	NA	None	No Change	0	D*	0
Alignment 1	6,000	250	51	8	None	Best nearest to town (US-62, Idaho Avenue, Grand Avenue, Norge Road, I-44)	2 Commercial 7 Residential	B	154.3
Alignment 2	4,300	80	87	12	Slight Potential from O&G sites	Good further west than #1 (US-62, Idaho Avenue, Grand Avenue, Norge Road, I-44)	1 Commercial 5 Residential	B	168.9
Alignment 3	5,300	80	130	12	Slight Potential from O&G and industrial sites	Fair further west than #1 and #2 (US-62, Idaho Avenue, Grand Avenue, Norge Road, I-44)	2 Commercial 6 Residential	B	205.8

*: Level of Service along existing US 81 improves to "C" upon construction of bypass.

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What Happens Next?



- Consider Comments from this Public Meeting
- Select a Preferred Alignment
- Conduct Field Studies
- Prepare Draft EA Document
- Public Hearing (Mid-2014); Comment Period
- Finalize EA
- Request FONSI from FHWA (Late 2014)

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What Happens Next?



- Begin ROW Acquisition and Utility Relocation Process (2014)
- Begin Bypass Construction, as Funding Allows

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Information Sources



- Web Address: <http://www.odot.org/meetings/other.php>
- Greg Worrell – ODOT
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- Diane Abernathy – SAIC
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Thank you!

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Question and Answer Session

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