APPENDIX M
Internal Meeting Minutes



Oklahoma Department of Transportation

Planning and Research Division

Office 521-2704 Fax 521-6917

DATE: TO:

September 1, 2004

FROM:

Files and Attendees

Planning and Research Division

Meeting minutes for US 81 Kickoff Meeting SUBJECT:

On Monday, August 30, 2004, a meeting was held in the Planning and Research Division Conference room to kickoff the US 81 corridor study project. In attendance were:

Johnny Shan	ODOT Planning & Research Division	405 521-2672
Steve Roper	ODOT Planning & Research Division	405 521-2672
Larry Reser	ODOT Survey	405 521-2621
Larry Wicks	Benham	918 492-1600
Diane Abernathy	Benham	405 701-3167
Craig Moody	ODOT Planning & Research Division	405 522-1465
Terry McFall	Benham	405 794-3531
Dawn Sullivan	ODOT Planning& Research Division	405 521-2927
Brenda Perry	ODOT Public Affairs	405 521-6006
Ronda Lindsay	ODOT Project Management	405 522-7603
Ron Weltzheimer	Benham	405 478-5353
Bob Rose	ODOT Division 7	580 255-7586
Red Miller	ODOT Traffic Division	405 521-2864
David Streb	ODOD Preconstruction	405 521-6916

A contact list of ODOT, Benham, and contract staff who are anticipated to be involved in the project was distributed for review and revision. The project work plan sequence was reviewed, as well as detailed traffic study and environmental work plans (see attachments). After some discussion of the "east-west corridor" bypass desired by Chickasha, which would connect US 81 north of the airport with I-44, it was agreed that such a bypass is actually outside the scope of the US 81 corridor study and, if requested by Chickasha, would have to be a separate study. The possibility of mailing surveys to Chickasha residents to determine traffic patterns was discussed, but was dismissed. Any existing traffic count data will be requested from Chickasha during the informal stakeholder meeting.

During discussion of the proposed traffic study, B. Rose indicated that Chickasha wants to consider the possibility of connecting a west US 81 bypass to SH 19 and, therefore, the traffic study should collect adequate data to evaluate the best location to connect the bypass with US 81 south of Chickasha. ODOT also requested that Benham prepare a graphic that depicts the proposed locations of the traffic and turning movement counts and license plate survey.

Two (2) informal stakeholder meetings will be scheduled with (1) Chickasha and (2) Union City, Minco, and Pocasset within approximately 30 days. It was agreed that, at a minimum, the Chickasha Chamber of Commerce Economic Development Committee, city officials from each of the cities, and representatives from Grady and Canadian Counties would be invited to attend approximately 2 - 3 weeks prior to the scheduled meetings. Benham will schedule the meetings in coordination with ODOT.

It was agreed that ODOT will conduct the archaeological and historic structures file review. Also, ODOT will provide a list of agencies to be used for the comment solicitation letters.

The concept of dividing the project into a Chickasha bypass portion and a northern portion was discussed. The advantage to this approach would be that, if the Chickasha bypass portion became delayed by controversy, the cost estimating work for the northern portion could proceed, thus providing B. Rose with the budgeting information he needs in a timely fashion. Also, it was determined in the meeting that an ODOT scoping team site visit to the corridor would not be necessary.

Cc: Chief Engineer

Division VIII Engineer

Attendees



US-81 CORRIDOR STUDY – GRADY COUNTY KICKOFF MEETING

SIGN IN SHEET

Benham Project#

4050462000

Project Name

US-81 Corridor Study

Project Location

Grady County, OK (Division VII)

Client

Oklahoma Department of Transportation (ODOT)

EC-899

NHY-001N(068)EC J/P 21603(04)

NAME	ORGANIZATION	PHONE NUMBER
JOHNNY SHAN	PER DIVISION	521-2672
STEVE ROPER	OPOT PLANNING ÉRESEARCH	521-2672
LAPRY RESER	ODOT SURVEY	521-2621
LARRY WICKS	Benham	918 492-1600
Diane Abernathy	Benham	701-3167
CRAIGE MOODY	ODDT PLANNING	522-1465
levry McFall	Benhom	794-3531
DAUN Sulhvan	Planning & Research	621-2927
Breuda Perry	Public Affairs	521-6000
Randa Lindsay	Proi. mat	522-7603
ROUSIS WEATENER	BEUNDA	418-5353
Bob Rose	ODOT	(580) 255-7586
Red Miller	ODOT- Troffic Div.	(405) 521-2864
DAVID STREB	ODOT - Preconstruction	521-6916



Oklahoma Department of Transportation

Planning and Research Division Office 521-2704 Fax 521-6917

DATE:

January 26, 2005

TO:

Files and Attendees

FROM:

Planning and Research Division

SUBJECT:

Meeting Minutes for US 81 Roadway Design Criteria Meeting

On Tuesday, January 25, 2005, a meeting was held in the Design Conference Room (ODOT Second Floor) to discuss the design criteria to be used for evaluating the US 81 corridor. In attendance were:

Johnny Shan	ODOT Planning & Research Division	405 521-2672
Craig Moody	ODOT Planning & Research Division	405 522-1465
Brian Schmitt	ODOT Roadway Design Division	405 521-2672
Eduardo Elder	ODOT Roadway Design Division	405 521-2621
Bob Rusch	ODOT Bridge Division	405 521-2927
Terry McFall	Benham	405 794-3531
Larry Wicks	Benham	918 492-1600
Ronald Weltzheimer	Benham	405 478-5353

An overview of the process of the project was presented. Last fall the Project Kick-off Meeting was held at ODOT and Stakeholder Meetings were held at Chickasha and Minco. Benham has completed the field work for the traffic counts. Data has been collected for the turning movements at Union City and Minco including traffic counts along US-81 north of Chickasha through Union City. Benham has completed the field work for the license plate survey in Chickasha including traffic counts. Evaluation of the data has not been completed. The analysis of the traffic data will be presented to ODOT for review when complete.

Benham presented the proposed design criteria to be used for the evaluation of the roadway engineering aspects of the US-81 Corridor Study. The Criteria was divided into three parts (Rural, Suburban and Bypass). The main discussion was regarding the criteria for curves, clear zones, etc, that will be used to evaluate the existing roadway and recommendations for improvements or new alignment. The revised criterion based on the comments received and discussed is attached to these minutes. Discussion included:

- 1. US-81 is an NHS Route, proposed to be developed into a four lane divided facility. New lanes will be ultimately constructed with the rehabilitation of the existing lanes at a later date. Benham has received as-built drawings on much of the corridor; additional information was requested to help in the final evaluation.
- 2. A desirable median width for the corridor should be a 64 feet, with a 46 feet minimum. The evaluation of the median should include review median widths north of Union City on the improved section currently under construction and the median width south of Chickasha. The proposed median width could be the minimum required in areas where existing right-of-way would allow the construction of a divided facility without purchasing additional right-of-way. The

- proposed median width should be consistent along the entire length of the corridor. Median openings should be at the quarter section lines, no more than two openings per mile.
- 3. Driver expectations should be one of the considerations when evaluating horizontal curves. Three degree maximum curve would be desirable for the rural high speed areas; however if a curve that falls within the desirable curvature range but does not "fit" with driver expectations along the corridor, this curve should be considered for correction. It was noted during the discussions that most of the horizontal curves along the corridor do not appear to exceed current design standards.
- 4. The rural and bypass typical sections typically will be a divided four lane open section, the suburban typical sections through town are expected to be an undivided curb and gutter section. The transition between open sections and curb & gutter should be well defined and described. The location of the transitions and the length of the curb & gutter sections should follow proper design logic and be a reasonable length. The transition section, if open, should be designed to allow for modification to a curb & gutter section in the future.
- 5. Benham will contact the City of Chickasha regarding any planning for the airport and industrial areas north of town.
- 6. Possible alignments for the proposed Chickasha Bypass should consider several factors. The north tie to the existing alignment of US-81 should consider an interchange near the existing intersection of US-81 and US-62. The interchange / intersection should consider the possible phasing of the projects (at grade / grade separation), the possibility of a grade separation structure over the railroad to the north and the adjacent businesses / right-of-way. Other locations for the interchange might include a possibility of a new alignment north near a location where one grade separation structure would cross both the railroad and US-62. The south end of the possible bypass is less congested with existing development; however several residential developments have occurred near the proposed 1978 bypass alignment west of Chickasha that will have to be considered. Full access control (Access Management) would be desired for the bypasses, limiting driveway to outlet streets as far away from the intersections as possible and intersections limited to major cross streets.
- 7. The floodplain at Rock Creek is very wide; the creek channel is not well defined. The study will need to consider the possibility of developing a defined creek channel and the associated efforts required to coordinate with FEMA (LOMR).

Once Benham completes the initial review of the roadway aspects of the corridor to determine deficiencies, they plan to visit the site to review the findings in the field.

Cc: Chief Engineer
Division VII Engineer
Attendees

U.S. 81 Corridor Study Chickasha north to Union City J/P 21603(04) Canadian and Grady Counties

Design Criteria - Rural

Functional Classification: Principal Arterial (Rural, Divided Multi-lane) Design speed = 70 mphAccess control = none; median openings no closer than 0.5 mile Lane width = 12' Paved shoulder width = 10' right; 4' left Cross slope = 2% lane; 4% shoulder Median width = 64' preferred, 46' minimum Clear Zone (V = 70 mph, ADT = over 6000, fore slope = 6:1, back slope = 4:1) Fill CZ = 34Cut CZ = Not applicable Side slopes Cut ⇒ 6:1 fore slope, 8' ditch width, 4:1 back slope Fill \Rightarrow 0-4' height = 6:1 4'-10' height = 6:1 to CZ, 4:1 to toe >10' height = 6:1 to CZ, 3:1 to toe Stopping sight distance = 850' (ODOT), 730' (AASHTO 2001) Intersection sight distance = Dependent on Stop Control and direction of travel Passing sight distance = 2500' (ODOT), 2480' (AASHTO 2001) Maximum degree of curvature = 3° (R = 1909.86') Maximum superelevation = 0.08 roadway, 0.06 bridges Maximum grade = 3% (level) Minimum grade = 0.5%Vertical curvature for desirable SSD K = 540 (ODOT Desirable), 290 (ODOT Minimum), 247 (AASHTO 2001) Crest K = 220 (ODOT Desirable), 150 (ODOT Minimum), 181 (AASHTO 2001) Sag Bridges Structural capacity HL-93 Width full approach roadway width 16'-9" Vertical clearance

Design Criteria - Suburban

Functional Classification: Principal Arterial (Suburban, Multi-lane)

Design speed = 45 mph or less for curbed section, 45 - 60 mph for open section

Access control = none

Lane width = 12'

Curb Offset = 2' right; 2' left

Cross slope = 2% lane; 3% for lane next to curb

TWLT lane width = 14'

Parking lane width = 12'

Clear Zone = 10' behind curb

Side slopes

Cut \Rightarrow 3:1 back slope

Fill \Rightarrow 0-4' height = 3:1

4'-10' height = 3:1

>10' height = 3:1

Stopping sight distance = 400' for 45 mph; 650' for 60 mph

Intersection sight distance = Dependent on Stop Control and direction of travel

Maximum degree of curvature = 9° 15' (R = 619.41') for 45 mph; 4° 15' (R = 1348.14') for 60 mph

Maximum superelevation = 0.06

Maximum grade (level) = 6.5% for 45 mph; 5% for 60 mph

Minimum grade = 0.5%

Vertical curvature for desirable SSD

Crest K = 120 for 45 mph; 310 for 60 mph Sag K = 90 for 45 mph; 160 for 60 mph

Bridges

Structural capacity

HL-93

Width

full approach roadway width

Vertical clearance

16'-9"

Design Criteria - Bypass

Functional Classification: Principal Arterial (Urban, Divided Multi-lane)

Design speed = 70 mph

Access control = full for ultimate design, partial for interim design

Lane width = 12'

Paved shoulder width = 10' right; 4' left

Cross slope = 2% lane; 4% shoulder

Median width = 64' preferred, 46' minimum

Clear Zone (V = 70 mph, ADT = over 6000, fore slope = 6:1, back slope = 4:1)

Fill CZ = 34

Cut CZ = Not applicable

Side slopes

Cut \Rightarrow 6:1 fore slope, 8' ditch width, 4:1 back slope

Fill \Rightarrow 0-4' height = 6:1

4'-10' height = 6:1 to CZ, 4:1 to toe

>10' height = 6:1 to CZ, 3:1 to toe

Stopping sight distance = 850' (ODOT), 730' (AASHTO 2001)

Intersection sight distance = Not applicable

Passing sight distance = 2500' (ODOT), 2480' (AASHTO 2001)

Maximum degree of curvature = 2° (R = 2864.79')

Maximum superelevation = 0.08 roadway, 0.06 bridges

Maximum grade = 3% (level)

Minimum grade = 0.5%

Vertical curvature for desirable SSD

Crest K = 540 (ODOT Desirable), 290 (ODOT Minimum), 247 (AASHTO 2001)

Sag K = 220 (ODOT Desirable), 150 (ODOT Minimum), 181 (AASHTO 2001)

Bridges

Structural capacity

HL-93

Width

full approach roadway width

Vertical clearance

16'-9"





Oklahoma Department of Transportation

Planning and Research Division

Office 521-2704 Fax 521-6917

Date:

May 19, 2005

To:

Files and Attendees

From:

Planning and Research Division

Subject:

US 81 – Potential Bypass Locations

On May 12, 2005, a meeting was held to review and discuss potential bypass location locations on US 81. In attendance were:

Reza Amini Laila Fosse Ronda Lindsay Craig Moody Larry Reser Bob Rose Brian Schmitt Dawn Sullivan Ryan Abbotts Diane Abernathy Terry McFall Ronald Weltzheimer Larry Wicks Mike Brice	ODOT Roadway Design Division ODOT Planning & Research Division ODOT Project Management ODOT Planning & Research Division ODOT Survey ODOT Division VII ODOT Roadway ODOT Planning & Research Division Benham Benham Benham Benham Benham City of Chickasha	405-521-6779 405-522-6719 405-522-7603 405-522-1465 405-521-2621 580-255-7586 405-521-2695 405-521-2927 918-599-4238 405-701-3167 405-794-3531 405-478-5353 918-492-1600 405-222-6028
Mike Brice Jim Parker	City of Chickasha City of Chickasha	405-222-6028 405-224-5444
Larry Shelton	City of Chickasha	405-222-6045

1. Chickasha Western Bypass

The first topic of conversation was review and discussion of eight (8) potential western bypasses of Chickasha. The participants from City of Chickasha quickly recommended elimination of all bypass locations except for the two (2) westernmost locations (i.e., bypass locations #3 and 4) due to recent development trends.

Potential constraints identified in the vicinity of bypass locations 3 and 4 included:

- · A newly-construction Chickasha water tower
- · Current construction of a new church
- · A 100-acre parcel currently being platted by Dry Creek Developers for residential development

The Chickasha participants indicated a preference for:

- · Future economic development along the western bypass.
- Per the Chickasha Master Plan, Pikes Peak Road to be widened and re-aligned into the western bypass.

Interchanges with the western bypass be provided at several points: SH 92, I-44, Grand Avenue, and Idaho Street.

ODOT expressed the following concerns:

- The western bypass should cross existing streets at 90° to facilitate potential future interchanges.
- The type of access control and the number of access points must be carefully considered in light of the desired bypass function and the proposed 70 mph speed limit.
- The number of access points should be minimized and kept at least 1 mile apart.

At the end of the discussion it was decided that two potential Chickasha bypass locations would be carried forward for further consideration. These locations will be some combination of #3 and 4, with a common alignment on the south end and two variations on the north end.

Benham will check with Oklahoma Turnpike Authority regarding plans to modify and/or relocate the toll plaza on I-44 south of Chickasha..

2. Chickasha Northern Bypass

The potential for a Chickasha northern bypass was briefly discussed. The preliminary results of the license plate survey conducted by Benham indicate current traffic is insufficient to support such a bypass. Chickasha officials indicated that the idea of a northern bypass is supported by a group of local individuals, and is proposed to consist of utilizing existing I-44 to conduct northbound US 81 traffic from south of Chickasha to a point approximately 3 miles north of Chickasha (and north of the existing I-44 Washita River crossing). From this point, traffic would exit I-44 and travel west to US 81 (approximately 2.5 miles north of the US 81/US 62 intersection. This concept would require construction of approximately 5.5 miles of roadway along existing county roads, 2 railroad crossings, an interchange at I-44 and the new road north of Chickasha, and removing the toll fee for traffic using I-44 for the northern bypass. Benham will evaluate the demand for such a bypass (as indicated from license plate survey data) and the feasibility of removing the I-44 toll for northern bypass traffic.

3. Pocasset Bypass

East and West potential bypasses of Pocasset were reviewed. The East bypass was dropped from further consideration due to the need for two (2) railroad crossings. The West bypass and Existing alignment will be carried forward for further consideration and comment from the public. Current on-street parking should be considered in the analysis of the improvement of the existing facility.

4. Minco Bypass

East and West potential bypasses of Minco were reviewed. Connecting either bypass to SH 37 north of Minco will be problematic. The East bypass can be connected more easily; therefore, the West bypass was eliminated from further consideration. The East bypass and Existing alignment will be carried forward for further consideration and comment from the public.

5. Union City Bypass

East and West potential bypasses of Union City were reviewed. The East bypass offers convenient access to SH 152 and requires no railroad crossing. Therefore, the West bypass was eliminated from further consideration. The East bypass and Existing alignment will be carried forward for further consideration and comment from the public.

6. Letter to Chickasha Chamber of Commerce

At Bob Rose's suggestion, ODOT will prepare a letter to the Chickasha Chamber of Commerce requesting that they provide any pertinent general feedback regarding a Chickasha western bypass at this time. Subsequent stakeholder and public meetings will be held, with ample opportunity for additional public input.

Cc: Chief Engineer/Deputy Director Division VII Engineer

Attendees



Oklahoma Department of Transportation

Planning and Research Division

Office 521-2704 Fax 521-6917

Date:

July 29, 2005

To:

Files and Attendees

From:

Planning and Research Division

Subject:

US 81 – Preliminary Bypass Alignments

On July 27, 2005, a meeting was held to review the preliminary bypass alignments on US 81. In attendance were:

Eduardo Elder	ODOT Roadway	
Bob Rose	ODOT Division VII	580-255-7586
Brian Schmitt	ODOT Roadway	405-521-2695
Diane Abernathy	Benham	405-701-3167
Terry McFall	Benham	405-794-3531
Ronald Weltzheimer	Benham	405-478-5353
Larry Wicks	Benham	918-492-1600

US 81 North Segment

The proposed bypass alignments for Union City (east side), Minco (east side), and Pocasset (west side) were reviewed. The following comments were made:

- 1. Union City Bypass: The proposed Union City bypass will be a diamond interchange at SH 152, east of Union City. ODOT suggested that Benham present the proposed bypass and existing alignment improvements to Division 4 for review and comment.
- 2. Minco Bypass: The Minco bypass will require two (2) interchanges: a diamond interchange with US 81 over SH 37 southeast of Minco (south interchange), and a loop ramp to SH 37 north of Minco (north interchange). It is presumed that the portion of US 81 bypassed will come off the system. The north interchange proposal at Minco included two possible configurations. The first configuration extends the county road east with a new railroad grade separation structure offset to the east and a diamond interchange at the proposed bypass. The second configuration would feature an interchange of US 81 and SH 37 along the existing US-81 alignment north of the existing railroad grade separation. Because the second proposal was not fully developed at the time of this meeting, Benham will complete enough geometrics to determine if an interchange is actually possible at this location and the extents to make all of the grades work. ODOT staff commented that the railroad grade separation structure north of Minco was fracture critical, which may require replacement or other significant work.

The extents of the five-lane sections will be reviewed to determine the best location to transition to a four-lane divided section. A transition typical section should be considered (5-lane open

with shoulders) between the curb and gutter urban areas and the divided rural areas. Shoulder widths for the transition section should match the shoulders widths for the proposed divided section. The railroad grade separation north of Minco should be included in this review, considering construction phasing. The alternate for improving US-81 on the existing alignment should consider extending the transition section north of the existing railroad grade separation.

ODOT suggested that the Minco information be presented to the public as two primary alternates, each having two different variations. Alternate 1 would be improvements along the existing alignment, or the existing alignment with a new alignment on the south end of Minco correcting the horizontal curves. Alternate 2 would be the proposed bypass with the south interchange, with either the first or second configuration for the north interchange.

3. General: ODOT prefers to have access control on all of the proposed bypasses. Access control will require a review of the right-of-way parcels. A recommendation of the limits of Access Control will be included in BenhamÆs final report.

Chickasha Western Bypass

Two (2) different western bypass alignments have been studied, referenced as Alignment 3 (eastern) and 4 (western). Each alignment includes six (6) interchanges (i.e., US 62, Idaho Street, Grand Avenue, SH 92, I-44, and US 81 south). The graphics showing the proposed interchanges were reviewed.

- 1. General: The Chickasha bypass will be a controlled access facility with no frontage roads.
- 2. US 62 Interchange: This interchange is proposed as a diamond interchange with US 81 over US 62. Construction of the interchange will likely impact the floodplain; therefore, some easement purchases will be necessary.
- 3. Idaho Interchange: The eastern alignment would avoid the new Chickasha water tower, while the western alignment would be located with the water tower in the median. Additional research is required to determine if a plat has been filed west of the proposed interchange location at Idaho. All impacts should be mapped included any proposed ôgreen areasöfor a filed plat.
- 4. Grand Interchange: A diamond interchange is proposed.
- 5. SH 92 Interchange: Alignment 3 would impact Hermetic Switch, while Alignment 4 avoids the facility. The SH 92 interchange will likely need to be folded to avoid the railroad.
- 6. I-44 Interchange: Two interchange configurations were discussed at I-44, one of which might allow connecting Pikes Peak Road to the bypass. ODOT requested that a third interchange be developed featuring a conventional ôclover leafödesign. The interchange layouts will be discussed with Reza Amini of the Roadway Deign Geometrics Branch. Benham will discuss the interchange geometrics and the requirements for Toll Gates with OTA. After reviewing the graphics, ODOT indicated that a connection of Pikes Peak Road to the bypass might not be

practical because the connection would be difficult, complex and costly, and the associated traffic volumes are likely very low.

7. Existing US 81 Interchange: Two (2) alignments were presented for the interchange back to existing US 81: a directional interchange, and an interchange featuring buttonhook ramps. Traffic volumes and patterns will be reviewed to justify a directional interchange. If the traffic study supports a directional interchange, a buttonhook ramp interchange will not be considered further or presented to the public. ODOT expressed concerns regarding stopping US 81 traffic entering/leaving existing US 81, and accommodating traffic on 29th Avenue and East 1400 Road. Benham will review the previous ODOT studies at this location. ODOT requested that Benham coordinate with OTA to determine how the toll may be captured, and to consider the geometrics for tying the bypass back to existing US 81.

Cc: Chief Engineer/Deputy Director Division VII Engineer Attendees We believe the following record to be an accurate summary of decisions and related discussions. We will appreciate notification of exceptions to this record within 10 (ten) days of its receipt. Failing such notification, we will consider this a statement of fact in which you concur.

PROJECT WRITTEN BY

US 81 Corridor Study – Union City to Chickasha Terry McFall/Ron Weltzheimer

PROJECT NUMBER FILE NUMBER DATE WRITTEN

9/1/05

Subject:

US 81 Corridor Study - Meeting with Tim Stewart, Deputy Director of the

Oklahoma Transportation Authority

Date:

08/30/05

Time:

3:00 p.m.

Attendees:

Tim Stewart, OTA
Terry McFall – Benham
Ron Weltzheimer – Benham

On Wednesday August 30, 2005 at 3:00 p.m. a meeting to discuss the US 81 Corridor Study was held at the Oklahoma Turnpike Authority (OTA). Attending were Tim Stewart OTA, Ronald Weltzheimer Benham, Terry McFall Benham.

Purpose of the meeting was to exchange information regarding the study. Ron briefly described the scope of the study and the progress to date. The primary item to be discussed was the impact of the Chickasha West Bypass on the H.E. Bailey turnpike particularly on the existing toll plaza.

An aerial showing the proposed new interchange of the Bypass and the turnpike and its relationship with the existing toll plaza was displayed. Tim said OTA preferred not to place the gate within an interchange. OTA prefers toll gates similar to the gate at Newcastle using ramps outside the toll booths for the PikePass lanes.

After much discussion it was concluded if the toll plaza was to be relocated it would be better to locate it southwest of the existing location. Moving it northeast could result in noise problems and providing adequate acceleration and deceleration lanes would be difficult. Moving it to the southwest would require tollgates on the eastbound on and westbound off ramps at the proposed interchange. Tim suggested we look at the SH 4/ Bailey Turnpike interchange construction plans for ideas and methods for toll plaza locations on ramps. Tim liked the idea of using collector/distributor roads to channel traffic to the toll gates.

Tim stated replacement of the toll plaza is not in his current five-year plan. However he is interested in the results of the study because it could affect the location of any future planned replacement. Tim stated that a suitable site for a new toll plaza would require about a one-mile flat stretch of road, or relatively flat with the toll plaza at the crest. We will add Tim to the mailing list for the project and provide him with a copy of the final study report.

Also discussed was the "east bypass" proposed by Pat Brooks of Chickasha, which would include a portion of the turnpike. Tim indicated there are a lot of problems associated with this proposal, the largest being how the lost tolls would be recaptured. Under the trust agreement some entity would have to be responsible for payment of all tolls before OTA could remove the tolls for that section of turnpike. He also questioned how much demand there would be for such a bypass.





Oklahoma Department of Transportation

Planning and Research Division

Office 521-2704 Fax 521-6917

DATE:

October 19, 2005

TO:

Files and Attendees

FROM:

Planning and Research Division

SUBJECT:

US 81 ODOT Meeting Minutes

On Tuesday, October 18, 2005, a meeting was held to prepare for the bypass stakeholder and public meetings to be held for the US 81 Corridor Study project. In attendance were:

Eduardo Elder	ODOT Roadway	405-521-4848
Laila Fosse	ODOT	405-522-6719
Teresa Harris	ODOT RW Relocation	405-521-2648
Ronda Lindsay	ODOT Project Management	405-522-7603
Craig Moody	ODOT Planning	405-522-1465
Bob Rose	ODOT Division VII	580-255-7586
David Streb	ODOT Asst Dir of Preconst/Asst Chief Engr	405-521-6916
Tim Tegeler	ODOT Roadway	405-521-2601
Diane Abernathy	Benham	405-701-3167
Linda Koenig	Benham	405-478-5353
Aruna Mathuranayagam	Benham	405-478-5353
Terry McFall	Benham	405-794-3531
Ron Weltzheimer	Benham	405-478-5353
Larry Wicks	Benham	918-492-1600

The group decided that the optimum date for both bypass stakeholder meetings would be Tuesday, November 1, 2005, and that the dates for the public meetings would be Monday, November 7 and Thursday, November 10, 2005.

The draft letters, mailing lists, public notice, and meeting handouts were reviewed and suggestions for several changes or additions were made.

The group decided that the graphics presenting the bypass locations would show only the bypass or bypasses that had been selected as more feasible. For example, only the east bypass would be graphically presented for Union City and Minco, only the west bypass for Pocasset, and only western bypass alternates 3 and 4 for Chickasha. It would be briefly explained at the meetings that other bypass locations had been considered, but the bypass locations indicated on the graphics had been selected as most feasible.

The graphics related to the Chickasha north and west bypass were reviewed, and it was agreed that the graphics should only reflect the percentage of US 81 traffic which would utilize each bypass. The group also discussed that these percentages and the origin-destination study did not take into consideration the effects of (1) turnpike tolls or (2) the traffic presently using 29th Street as a bypass on drivers' willingness to utilize the bypasses.

It was agreed that the stakeholders' participation should be acknowledged clearly at the public meetings. The stakeholder meetings would use a Powerpoint® format, and the public meeting format would be "open forum", consisting of an introductory session, followed by an open forum with topical stations and associated graphics.

Cc: Attendees

Casey Shell – Division 4 Engineer

DATE:

March 23, 2006

TO:

Files and Attendees

FROM:

Planning and Research Division

SUBJECT: US 81 Recommendations Meeting Minutes

On 1/23/06, a meeting was held in the Planning and Research Division Conference room to review Benham's recommended improvements for US 81. In attendance were:

Steve Roper	ODOT Planning & Research Division	405 521-2672
Larry Reser	ODOT Survey	405-521-2621
Dawn Sullivan	ODOT Planning & Research Division	405 521-2927
Casey Shell	ODOT Division IV Engineer	405-521-3805
Bob Rose	ODOT Division VII Engineer	580-255-7586
Greg Allen	ODOT Bridge Division	405-521-2606
Ron Weltzheimer	Benham	405-478-5353
Oscar Molla	ODOT Bridge Division	405-521-6490
Diane Abernathy	Benham	405 701-3167
Terry McFall	Benham	405 794-3531
Larry Wicks	Benham	918 492-1600
Ronda Lindsay	ODOT Project Management	405-521-7603
Tim Tegeler	ODOT Roadway	405 521-2695
Eduardo Elder	ODOT Roadway	405-521-4848
Bob Rusch	ODOT Bridge	405 521-2606

General:

Ron Weltzheimer provided an update of the US 81 corridor study status, and explained how Benham had developed the recommendations for US 81 from north of Union City to south of Chickasha. The recommended improvements and ODOT comments were as follow:

North Segment Recommendations:

- US 81/SH 62 to Pocasset: 4 lane divided, add new lanes east of existing.
 ODOT agreed.
- Pocasset: No bypass, 4 lane undivided along existing alignment.
 ODOT agreed.
- Pocasset to Minco: 4 lane divided, add new lanes east of existing.
 ODOT agreed. ODOT asked Benham to review locations of Rural Water District lines, and consider if adding lanes to the East or the West has less impacts to RWD.
- Minco: No bypass, 4 lane divided changing to 4 lane undivided south of town along an
 Alternate alignment correcting the curve south of town.
 ODOT questioned the comparative right-of-way estimates for the Existing and Alternate options, and requested a more detailed study of the Existing vs. the Alternate in terms of relocations and row costs.
 Benham will authorize Cinnabar to do, and will e-mail results to ODOT.
- ODOT requested that the info in Tab 2 of the handout be clarified that while the recommendations were 4 lane, the costs were based on 5 lanes through towns.

- For programming, control of access should be considered a ROW cost.
- ODOT requested consideration of realignment of the railroad crossing north of Minco to a less severe angle.
- Minco to Union City: 4 lane divided, add new lanes east of existing.
 ODOT agreed.
- Union City: No bypass; 4 lane undivided along existing alignment. ODOT agreed.
- Union City to Project End: 4 lane divided, add new lanes east of existing.
 ODOT agreed.
- It was agreed that an additional stakeholder meeting was not necessary for the North Segment.

Chickasha Segment Recommendation:

- Recommended a 4 lane divided along the west bypass alternate 3-4 hybrid.
 ODOT agreed.
- ODOT requested that the USAO property and impacts from West bypass alternates 3 and 4 be reviewed/confirmed.
- The North Bypass is not feasible and can be dropped from further consideration.
- Bob Rose will advise regarding need for an additional stakeholder meeting for the Chickasha segment. In subsequent e-mail to Benham dated 2/21/06, ODOT confirmed no stakeholder meeting is necessary, but a letter to the stakeholders should be issued, informing them of our intentions and offering the opportunity for comment.

Program Segments/Programming:

- The final report will identify programming segments and categorize them as "high/medium/low", but Benham will provide a numbered priority list of segments to Bob Rose.
- Program segments should be divided such that the costs are \$5 \$10 million per segment.
- Program segments should break at the Canadian/Grady county line.
- The section of US 81 north of US 81/SH 152 intersection in Union City to Project End is likely already programmed as part of the District IV improvements. This will be verified and if so, the program segments will end at the US 81/SH 152 intersection.
- Known "high" priority segments include: US81/SH 62 to Chickasha Airport, the curve correction south of Minco, and US 81/SH 152 to the Canadian River.
- The final report should divide the North Segment into 2 sections: north and south of US 81/SH 37 East intersection in Minco.
- Per Bob Rusch, two separate bridges should be built over Buggy Creek south of Minco.

Cc: Attendees



US-81 CORRIDOR STUDY

Preliminary Cost Study Recommendation of Alternates

US-81
Grady and Canadian Counties

EC No. 899 J/C 21603(04)



January 2006

PRELIMINARY COST STUDY RECOMMENDATION OF ALTERNATES

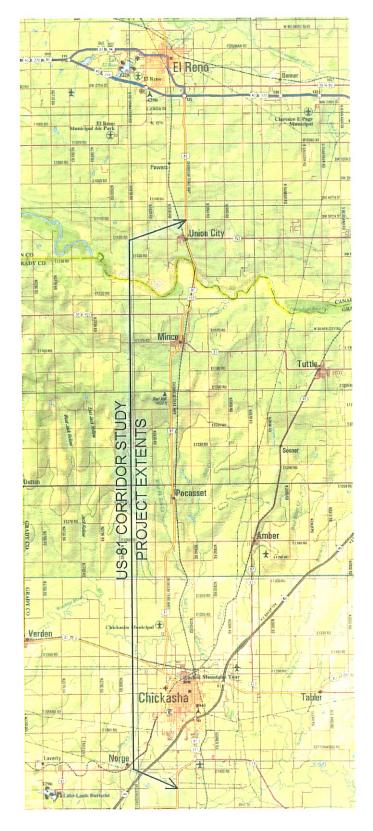
US-81 CORRIDOR STUDY

OKLAHOMA DEPARTMENT OF TRANSPORTATION THE BENHAM COMPANIES, LLC

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TAB 4	US-81 CORRIDOR IMPROVEMENT RECOMMENDATION SUMMARY
TAB 5	SUFFICIENCY RATING REPORT
TAB 6	2003 NEEDS STUDY CONSTRUCTION COST ESTIMATES







PRELIMINARY COST STUDY RECOMMENDATION OF ALTERNATES

U.S. 81 CORRIDOR STUDY

OKLAHOMA DEPARTMENT OF TRANSPORTATION THE BENHAM COMPANIES, LLC

The focus of the US-81 Corridor Study is to evaluate existing U.S. 81 for improvement from Union City South to Chickasha including a possible Chickasha bypass. The study includes an inventory of existing conditions including traffic capacities, sufficiency rating and environmental conditions. A projection of future conditions concluding with a recommended alternate which is economical and has minimal environmental impacts is the purpose of this study.

PRELIMINARY COST STUDY

A cost estimate is presented in this report for each of the alternatives discussed at the public meetings which is comprised of construction, right-of-way and utility relocation cost. These cost estimates are based upon "per mile", "per acre", "per square foot", etc. unit planning costs provided by ODOT. With minor adjustment, the unit costs utilized for this study are from the "2003 Needs Study Construction Cost Estimates" from the Strategic Planning Branch of the Planning & Research Division, Oklahoma Department of Transportation. These are planning level costs estimates to be used for alternate comparison only. The costs presented are not intended for the programming of projects.

The purpose of this preliminary report is to present information that will be used to determine the final recommended alternate for each section of the project. After the final alternates have been determined, a detailed study will be completed to identify all significant Right-of-Way and Utility needs to establish cost estimates for programming. Parcel counts will be determined using the tax roles from the County Assessor's office and Right-of-Way cost (including relocations) will be determined using real estate comparable costs and a windshield survey. Utility relocation needs will be identified and cost estimates will be developed using information provided by ODOT and direct contact with utility companies. Final numbers will be submitted to ODOT Right-of-Way Division for review.

After the final alternates have been determined, a detailed study will be completed to determine final engineering and construction costs. The As-Built drawings of the existing US-81 facility will be used to identify all sub-standard sections, significant cut, fill, drainage structures and bridges. Estimated construction cost will be determined using a database of construction unit costs furnished by ODOT for recommended improvements.



PRELIMINARY COST STUDY RECOMMENDATION OF ALTERNATES

U.S. 81 CORRIDOR STUDY

The Final Alternate Cost Summary will be included in the Final Report. Costs for construction, right-of-way and utility relocation will be developed for each project on the project priority list of the corridor identified during the completion of the Final Alternate Study.

PROJECT STATUS:

DATA COLLECTION / ANALYSIS OF EXISTING DATA 95%

Task Remaining: Finalize selection of Alternates

Update construction unit costs

TRAFFIC ANALYSIS 95%

Tasks Remaining: Complete Traffic Count Estimates for Chickasha

Bypass

ENVIRONMENTAL CONSIDERATIONS 100%

MEETINGS / PUBLIC INVOLVEMENT 80%

Task Remaining: Final Public Meetings

(Additional Stakeholder Meeting??)

ALTERNATE STUDIES / FINAL REPORT 40%

Tasks Remaining: Determine Preferred Alternates

Develop Project Priority List

Cost Estimates

Detailed Right-of-Way & Utility Cost Estimate

Final Report



Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

North Segment Summary

Estimated Cost ² \$23,454,114 \$5,794,802 \$10,940,596 \$16,743,276 \$9,035,236 \$6,135,357 \$4,002,200
Location east of existing lanes existing alignment east of existing lanes alternate alignment east of existing lanes existing alignment east of existing lanes
Ultimate Section 4 Iane divided 5 Iane undivided 7 Iane divided
Length (miles) 8.13 2.38 5.24 4.24 1.84 2.59 2.00
Segment US 62 to south of Pocasset Pocasset north of Pocasset to south of Minco Minco north of Minco to south of Union City Union City north of Union City to End of Project

\$76,105,581

¹ Estimated costs have been calculated utilizing 5 lanes for the undivided section.

² Amounts are planning level cost estimates to be used for alternate comparison only. These amounts are not intended for the programming of projects.

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

US 62 to south of Pocasset

Existing alignment: length = 8.13 miles

ultimate section = 4 lane divided add parallel lanes east of existing lanes

full access control between US 62 and E 1340 Road

bridges = Washita River, 3 others

Route	Estimated Total Gost	Estimated Roadway Cost	Estimated Bridge Cost	Estimated R/W Cost	Estimated Utility Cost
Existing	\$23,454,114	\$15,539,099	\$5,264,000	\$800,627	\$1,850,388

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

Pocasset

West Bypass: length = 2.50 miles

ultimate section = 4 lane divided

full access control at-grade intersections

Route	Estimated Total Cost	Estimated Roadway Cost			Estimated Utility Cost
West	\$8,206,000	\$6,688,750	\$0	\$754,750	\$762,500

Existing alignment: length = 2.38 miles

ultimate section = 4 lane divided and 5 lane undivided 5 lane undivided between E 1260 Road and E 1250 Road

Route		Thin at not a trade it is	Estimated Bridge Cost		Estimated
Existing	\$5,794,802	\$4,917,462	\$0	\$410,752	\$466,588

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

north of Pocasset to south of Minco

Existing alignment: length = 5.24 miles

ultimate section = 4 lane divided add parallel lanes east of existing lanes

Route	Estimated Total Cost	Estimated Roadway Cost		Estimated R/W Cost	
Existing	\$10,940,596	\$9,248,076	\$0	\$499,896	\$1,192,624

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

<u>Minco</u>

Existing alignment: length = 4.35 miles

ultimate section = 4 lane divided and 5 lane undivided

5 lane undivided between Buggy Creek and north railroad overpass bridge

bridges = Buggy Creek, north railroad overpass, 3 others

Route				Estimated R/W Cost	
Existing	\$16,787,905	\$10,734,380	\$3,207,750	\$2,111,806	\$733,969

East Bypass: length = 4.61 miles

ultimate section = 4 lane divided

bridges = south railroad overpass, Buggy Creek interchanges = SH 37 East, SH 37 West

Route	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON OF THE PERSO	Estimated Roadway Cost	Estimated Bridge Cost	Estimated R/W Cost	Estimated Utility Cost
East	\$42,766,581	\$34,453,272	\$5,515,500	\$1,391,759	\$1,406,050

Alternate alignment: length = 4.24 miles

ultimate section = 4 lane divided and 5 lane undivided

5 lane undivided between Buggy Creek and north railroad overpass bridge

bridges = Buggy Creek, north railroad overpass, 3 others

Route	Estimated Total Cost	Estimated Roadway Cost	Estimated Bridge Cost	Estimated R/W Cost	Estimated Utility Cost
Alternate	\$16,743,276	\$10,577,086	\$3,595,500	\$1,907,530	\$663,160

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

north of Minco to south of Union City

Existing alignment: length = 1.84 miles

ultimate section = 4 lane divided add parallel lanes east of existing lanes

bridge = Canadian River

Route	Estimated Total Cost	Estimated Roadway Cost	Estimated Bridge Cost	Estimated R/W Cost	Estimated Utility Cost
Existing	\$9,035,236	\$3,247,416	\$5,193,500	\$175,536	\$418,784

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

Union City

Existing alignment: length = 2.59 miles

ultimate section = 4 lane divided and 5 lane undivided

5 lane undivided between 0.25 miles south of SH 152 East and 0.5 miles north of SH 152 East

Route		Estimated Roadway Cost	Estimated Bridge Cost	Estimated R/W Cost	Estimated Utility Cost
Existing	\$6,135,357	\$5,252,431	\$0	\$625,262	\$257,664

East Bypass: length = 2.60 miles

ultimate section = 4 lane divided interchange = SH 152 East

Route	Estimated Total Cost	Estimated Roadway Cost	Estimated Bridge Cost	Estimated R/W Cost	Estimated Utility Cost
East	\$17,424,480	\$16,151,520	\$0	\$784,940	\$488,020

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

north of Union City to End of Project

Existing alignment: length = 2.00 miles

ultimate section = 4 lane divided add parallel lanes east of existing lanes

Route		Estimated Roadway Cost			Estimated Utility Cost
Existing	\$4,002,200	\$3,529,800	\$0	\$190,800	\$281,600

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

Chickasha Summary

Segment	Length (miles)	Ultimate Section	Estimated Cost ¹
Alternate 3	6.59	4 lane divided	\$127,833,968
Alternate 4	6.92	4 lane divided	\$131,228,584
Alternate 3 - 4 Hybrid	6.85	4 lane divided	\$130,931,660
North	6.99 ²	4 lane divided	\$136,335,084

¹ Amounts are planning level cost estimates to be used for alternate comparison only. These amounts are not intended for the programming of projects.

² Length of new roadway.

Chickasha to Union City Canadian & Grady Counties Job Piece No. 21603(04)

Chickasha West

Alternate 3: length = 6.59 miles

ultimate section = 4 lane divided

bridges = West Side Creek, Country Club Road, Line Creek, 29th Street, Rock Hollow Creek interchanges = SH 19, I-44, Norge Road, Grand Avenue, Idaho Avenue, US 62

Route		Estimated Roadway Cost			
Alternate 3	\$127,833,968	\$110,660,968	\$10,000,000	\$5,163,000	\$2,010,000

Alternate 4: length = 6.92 miles

ultimate section = 4 lane divided

bridges = West Side Creek, Country Club Road, Line Creek, N 2815 Road, 29th Street,

Rock Hollow Creek

interchanges = SH 19, I-44, Norge Road, Grand Avenue, Idaho Avenue, US 62

Route		Estimated Roadway Cost			
Alternate 4	\$131,228,584	\$111,695,584	\$12,000,000	\$5,422,000	\$2,111,000

Alternate 3 - 4 Hybrid: length = 6.85 miles

ultimate section = 4 lane divided

bridges = West Side Creek, Country Club Road, Line Creek, N 2815 Road, 29th Street,

Rock Hollow Creek

interchanges = SH 19, I-44, Norge Road, Grand Avenue, Idaho Avenue, US 62

Route	Estimated	Estimated	Estimated	Estimated	Estimated
	Total Cost	Roadway Cost	Bridge Cost	R/W Cost	Utility Cost
Alternate 3 - 4 Hybrid	\$130,931,660	\$111,476,120	\$12,000,000	\$5,366,290	\$2,089,250

Chickasha North

North: length = 6.99 miles of new roadway ultimate section = 4 lane divided

bridges = N 2860 Road, BNSF railroad / Otter Creek, N 2850 Road,

Union Pacific railroad / Salt Creek

interchanges = SH 19, I-44 southwest, I-44 northeast, SH 92, N 2840 Road, US 81

Route	Estimated Total Cost	Estimated Roadway Cost			Estimated Utility Cost
North	\$136,335,084	\$119,235,783	\$12,000,000	\$2,967,351	\$2,131,950

US-81 Corridor Study 4-Lane vs. 5 Lane Comparison/Recommendation

			CRITERIA CONSIDERED	RED		
A Li	TRAFFIC	SAFETY	INTERSECTION DENSITY	DRIVEWAY DENSITY	COMMERCIAL DENSITY	RECOMMENDATION
100000	ON	CN	Yes	No.	No	4 lane undivided
rocasser	140				O'A	A lane undivided L
Minco	Z	<u>0</u> 2	Yes	Yes	ONI	ל ומוס מומואומסמ
2011112	2			A I A		A long traditional
Union City	2	2	Yes	NO	ONI	ן מוס מומואומסמ
(3.0)						

9.4 TWO-WAY LEFT-TURN LANES (TWLTL)

Designs using the two-way left-turn lane (TWLTL) are often a cost-effective method to accommodate a continuous left-turn demand and to reduce delay and accidents. These lanes will often improve operations on roadways which were originally intended to serve the through movement but now must accommodate the demand for accessibility created by changes in adjacent land use.

9.4.1 Warrants

9.4.1.1 General

The physical conditions under which a TWLTL should be considered typically include:

- areas with a high number of driveways per mile (e.g., 45 driveways total per mile on both sides);
- 2. areas of high-density commercial development; and
- 3. areas with substantial mid-block left turns.

The applicability of the TWLTL is a function of the traffic conditions resulting from the adjacent land use. The designer should evaluate the area to determine the relative attractiveness of a TWLTL as compared to alternative access techniques. For example, a TWLTL may perpetuate more strip development. If this is not desirable, a raised median is an alternative treatment.

9.4.1.2 Functional Class

An undivided, 4-lane urban or suburban arterial is the most common candidate for the implementation of a TWLTL. This is

commonly referred to as a 5-lane facility. The use of a TWLTL on a 2-lane arterial (i.e., a 3-lane facility) may also be appropriate.

9.4.1.3 Traffic Volumes

Traffic volumes are a significant factor in the consideration of a TWLTL. When evaluating its use based on traffic volumes, the designer should use volumes projected for the project design year (see Chapters Twelve and Thirteen). As general guidance, the following should be used:

- 1. On 4-lane highways, a TWLTL will often be advantageous for traffic volumes between 10,000 and 25,000 ADT with a significant number of left-turning vehicles. On 2-lane highways, a TWLTL will often be advantageous for traffic volumes between 5000 and 12,000 ADT.
- For traffic volumes greater than 30,000 ADT and/or greater than 1000 DDHV, a raised median should be considered; however, a 6-lane highway with a TWLTL (i.e., a 7-lane facility) may be the more advantageous design selection, especially where roadside development is extremely dense.
- 3. The decision on whether to provide a TWLTL for traffic volumes between 25,000 and 30,000 ADT will be determined on a case-by-case basis. See Reference (7) for additional information.

9.4.1.4 Pedestrians

Pedestrian crossing volumes are also a consideration because of the large paved area which must be traversed when a TWLTL is present (i.e., no pedestrian refuge exists).

the intersection (i.e., provide no exclusive left-turn lane).

- 3. Minimum Length of TWLTL. The TWLTL should have sufficient length to operate properly, and the type of intersection treatment will determine the length of the TWLTL. The appropriate minimum length will be influenced by through traffic volumes and operating speeds on the highway. The following guidance may be used:
 - a. On facilities where V ≤ 30 mph and/or lower traffic volumes exist, the minimum uninterrupted length of a TWLTL should be 300-400 ft.
 - b. On facilities where V > 30 mph and/or higher traffic volumes exist, the minimum uninterrupted length of a TWLTL should be 500-600 ft.

The final decision on the length of the TWLTL will be based on site conditions in coordination with the Traffic Engineering Division and the Urban Design Division, Geometric Design Branch.

9.4.2.3 Railroad Crossings

A TWLTL should not extend across a railroad/highway grade crossing. The TWLTL is striped out in advance of the crossing on both sides by a distance of 100-ft desirable and 50-ft minimum. The designer should coordinate with the Traffic Engineering Division.

9.4.3 Rural Transition Section

9.4.3.1 Warrants

In some cases, a rural transition section may be appropriate, which is a variation of the TWLTL. The rural transition section provides a design which may be advantageous in areas which have both urban and rural features. The use of this section should be considered in transitional areas where design speeds are 50 mph or higher and on the following facilities:

- major collectors on the State highway system with design year ADT between 8000 and 18,000;
- 2. principal arterials (other than freeways and arterials with partial control of access) with design year ADT between 5000 and 18,000; and
- 3. other arterials with design year ADT between 7200 and 18,000.

The rural transition section may also be considered in urban areas on facilities which meet these criteria. For this purpose, an urban area is defined as an area currently developed or having probable future development (within the forecast period) as strip commercial or lot development of 0.5 acres or less and where at-grade access is allowed.

9.4.3.2 Design

The rural transition section is designed according to the typical criteria in Table 9.4A.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

DATE:

June 17, 1997

TO:

Roadway Design Manual Holders

FROM:

Assistant Director - Preconstruction

SUBJECT:

Addition to Roadway Design Manual - Section 9.4

Attached are the 4 lane/5 lane design guidelines. Effective immediately, this should be used as guidance for the design of the 4 lane/5 lane sections. Please insert these pages into section 9.4 of your Roadway Design Manual.

Veldo Goins

VG:RBL:km

Cours you plense give copies to Ali: Engr. Mingre.
PROF. Engrs
Squad Super.



9.4.4 4 Lane/5 Lane Design Guidelines

The following tables are intended for use by the designer for determining the best typical section on both rural and urban routes. It gives guidance of which there is still much room for overlap. All features of a particular route should be considered to come up with the best alternative. The designer should not focus on one particular feature when selecting a typical section, but rather look for a preponderance of the features which make that the most suitable alternative. It is advisable to conduct a thorough site review of each project to check for site specific traffic generators which may dictate a change in the typical section.

Table 9.4B
4 LANE/5 LANE DESIGN GUIDELINES

	4- Lane U	Individed	4-Lane	5-Lane	w/TWLTL(a)
Feature	Curbed	10' Shoulders	Divided	Curbed	10' Shoulders
Functional Class	Collectors Arte		Principal Arterials	All	Routes (c)
Traffic Volumes	. DHV < 1 ADT < 10		DHV > 1000 vph ADT > 7200 vpd	DHV <1000 vph ADT <30,000 vpd	DHV < 1000 vph ADT < 20,000 vpd
Projected Development	Low to N	/lodcrate	Low - Isolated Traffic Generators	Mod	lerate to High
Intersection Density (d)	≤ 4 interse	ctions./mi.	≤ 4 int/mi.	> 4 in	tersections/mi.
Driveway Density	≤ 45 drives/mi. 40% or more Commercial	<45 drives/mi. Predominately Residential	< 45 drives/mi.	> 45 drives/mi. Predominately Commercial	> 45 drives/mi. Predominately Residential
Pedestrian Traffic	Curb or sidewalk warranted (b)	Minimal Pedestrian Traffic	Minimal Pedestrian Traffic	Curb or sidewalk warranted (b)	Minimal Pedestrian Traffic
Design Speed (e)	45 mph	65 mph	65 mph+	45 mph	55/65 mph (g)
Access Control	None	None	Full or Partial (f)	· None	None

Footnotes:

- (a) Complete TWLTL warrants are covered in section 9.4 of the Design Manual.
- (b) See Section 8.1.5 of the Design Manual for curb warrants and Section 8.1.6 of the Design Manual for sidewalk warrants.
- (c) 5-Lane section should be avoided on NHS routes except where there is existing high density commercial development.
- (d) Intersections include any public streets or roads as well as drives which generate a large volume of left turns, such as those into malls or large retail outlets.
- (e) Design speed noted in the table may of course be increased. Posted speed may be based on appropriate speed studies.
- (f) Full control required on interstate or other facilities designed to Interstate standards. Partial control (access at section line and quarter section line) is preferred, but not required, on all others.
- (g) In order to increase to a 65 mph design speed, the median must be 16 paved with rumble strips adjacent to the inside travel lanes.

Table 9.4C

ADVANTAGES (+) AND DISADVANTAGES (-) OF THE DESIGN ALTERNATIVES

Advantage/Disadvantage	4 Un	divided	4 Divided	5 w/	TWLTL
	Curbed	Shoulders		Curbed	Shoulders
Cost Initial Maintenance	- +	+		+	++
R/W Nccds	+	+		+	+
Design Speed	-	+	+	-	-
Capacity	-	-	+	+	+
Delay Time	-		+	+	+
Control of Future Improvements	-	-	+	-	<u>-</u> 1
Access to Adjoining Properties	+	+	•	+	+
Left Turn Storage	-	-	+	+	+
Accident Reduction Angle Rear End Head On Sideswipe			+ + +	+ + -	- + +
Pedestrian Safety Length Crossing Refuge @ Median Refuge Along Facility	+ - +	+ - -	- + -	- - +	-
Side Street Traffic Crossing Highway Turning Left Onto Highway	-	-	+ +	- +	- +
Mail Delivery (2)	-	+	+	-	+
School Bus (b)		+	+	•	+

⁽a) Assuming mail boxes are located on opposite sides of the highway (mail delivery vehicle must go up one side and down the other).

US 81 Corridor Improvement recommendation Summary Page 1 of 3

		rage 1 of 5		The state of the s
Options	Cost	Environmental Constraints	Public Input	Recommendation
· 1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年		North Sagment		
7 118 04/118 62 Inforcection to Docasset				
Add lanes to east of existing	\$23.5	1 NRHP structure	None	X, 4 lane divided
Add lanes to west of existing	Not estimated; assumed to be equal to or greater than adding lanes to the east	• 1 Church • 2 Cemeteries	None	
9 Porasset				
Existing alignment	\$5.8	None	None	X, 4 lane undivided
West Bypass	\$8.2	None	Against bypass Concerns re: city or	
			esponsibil ned road	
3 Pocasset to Winco				
Add lanes east	\$10.9	None	None	X, 4 lane divided
Add lanes west	Not estimated; assumed to be	RWD Distribution Line NRHP	Rancher has expressed concerns	2
	than adding lanes to the east	structure		
4. Minco				
Existing alignment	\$16.8	None	More relocations than Alternate	
Alternate alignment (corrects	\$16.7		1 affected landowner objects	
sub-standard curves)		None	 Concerns re: city or county responsibility for abandoned road 	X, 4-lane undivided
East bypass	\$42.8	100-yr floodplain2 RR crossings	 Against bypass Concerns re: city or county responsibility for abandoned road 	

US 81 Corridor Improvement ๙ecommendation Summary Page 2 of 3

Options	Cost	Environmental Constraints	Public Input	Recommendation
5. Minco to Union City				>
Add lanes east	\$0.0	 Aligns with new Canadian River Bridge 	None	A, 4 lane divided
Add lanes west	Not estimated; assumed to be equal to or greater than adding lanes to the east	• Railroad	None	
6 Union City				
Existing Alignment	\$6.1	None	None	X, 4 lane undivided
East Bypass	\$17.4	None	 Against bypass Concerns re: city or county responsibility for abandoned road 	
7 Illion City to Project End				
Add lanes east	\$4.0	Aligns with construction north of project	None	X, 4 lane divided
Add lanes west	Not estimated; assumed to be equal to or greater than adding lanes to the east	None	None	

US 81 Corridor Improvement Recommendation Summary Page 3 of 3

Options	Cost	Environmental	Public Input Recommendation	ation
		Constraints		
	Ch	Chickasha Segment		をはない。
Existing Alignment	Not estimated	 Numerous relocations, 	Concerns expressed re: downtown congestion	
		UST/LUST, NRHP	(6	
West Bypass Alternate 3	\$127.8	 Hermetic Switch 	USAO property (more	
		impacts	impacted than Alternate	
		 Electrical substation 	-4 support existing of North Bypass	
		impacts		
		 Vine Street 		
		residential		
		neighborhood		
		Fower		
-		rewel		
		Existing		
West Bypass Alternate 4	\$131.2	 Chickasha water 	USAO property shightly	
		tower impacts	ا ا ک	
		Fewer	existing or North	
		relocations than	Bypass	
		Existing	 Developers expressed 	
			concern re: Impacts to platted parcel	
West Bypass Alternate 3-4	\$130.9			
Hybrid		None	operty slightly	707
			impacted – support 4 laile divided	3 5 5
			;	
			 Verbal expression of 	
			support	
	\$136.3	None	■ Initially suggested by	
North Bypass	÷		local interests	
		,		

		-	nan or	T	-		7	7	T	T	-		SAPETON .	Total	The same of	The last	1					-	7	-			10000		-					T		T		7					-	Name and Address of the Owner, where	-			-	
	ENDING DESCRIPTION	ENT OKC CL YUKON LFT	ENTER OKC U/L	ENT OKC U/	d-m	-	-	uripus	-	DESCRIPTION	200 STORET	res me	-	-	-	-	eptentes	SHLDR CHANGE	10000	LVE YUKON-ENT OKC C/L	JCT KILPATRICK T.P.	-	Denne o	-	1000000	0.16 S SH 152 JCT SH 152 - TOWN CEN	LINION CITY RAISE	TO THE REAL PROPERTY.	amond	SURF CHANGE	-	NAME OF TAXABLE PARTY.	0 25 MIS S 1-40B	-	o comme	JCT I-40B & SH 66	-	0.63 MIS N. I-40B	0.91 MIS N. 1-40B		-	-	1000	-	BIFT	100	3 22 MIS N	Department of the last	Dago 22 06213
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Wednesday, February 02, 2005

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	ENDING	BEG 4 LANE DIVIDED	ENTER CHICKASHA U/L	4 37 W 11S 84	1.37 W US 81	T.37 W US 81 ENT CHICKSHA C/L	ENT CHICKSHA C/L	29TH STREET	29TH STREET	0.17 MIS. W. US 81N	D.17 MIS. W. OS SIN	JCT US 81 NORTH	1.02 MIS E. US 81N	7.02 MIS E. US 81N WIDTH CHANGE 12TH ST	WIDTH CHANGE 12TH ST	BEG PC OVERLY 11TH ST	WIDTH CHANGE 6TH ST	JCT US 81 SOUTH -TC-	BEG DIV 3KD SIREEI	BEG PC CONC 2ND ST	WIDTH CHANGE	LEAVE CHICKASHA C/L	-		LEV CHICKASHA U/L	-	JCT SH 92 NORTH	-	-	0.52 MI E SH 92		Deposite of	-	-	and the same	NAME OF TAXABLE	-	1.98 MIS N. CO/LINE	No.	
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L C SURFACE BASE	THYPE WIDTH THICKNESS TYPE WIDTH FABRIC REINF. THICKNESS ORIGINAL PRIMARY EXPOSED WIDTH LANES ENGTH	100 100 100 100 100 100 100 100 100 100	5.24 4 24 1 0 2 38 E 9 1 10 1	5.24 4 24 1 1 0 2 38 E 9 1 10 1	0.11 4 24 1 1 0 2 38 E 9 1 10 1	0.11 4 24 1 1 0 2 38 E 9 1 10 1	0.30 4 24 1 H H 6 38 F 4 1 10 1	0.30 4 24 1 1 0 2 38 E 9 1 10 1	0.71 4 24 H H O 4 38 F 4 1 10 1	0.71 4 24 1 0 2 38 E 9 1 10 1 0.19 4 24 1 H 6 1 38 F 4 1 10 1	0.19 4 24 1 1 0 2 1 38 E 9 1 10 1	0.17 4 24 1 1 H 3 1 38 F 4 1 10 1	0.17 4 24 H 3 1 38 F 4 1 10 1	1.02 4 24 1 1 H 3 1 38 F 4 1 10 1	0.08 4 24 L L 0 0 38 H 4 1 10 1	0.08 4 24 L L 0 0 38 H 4 1 10 1 1 0.08 4 26 L L 0 0 26 H 4 4 0 4	0.08 4 26 L L 0 0 26 H 4 4 0 4	4 50 1 1 L 4 1 50 A 0 4	2 72 L 3 1 72 A 0 4 0	0.06 4 36 1 1 L 3 1 36 A 0 4	0.39 4 28 L L 0 1 28 F 4 4 0 0 0 0	0.39 4 28 L L 0 1 28 F 4 4 0 4 0	0.25 4 58 L L 0 1 58 F 4 4 0	N 042 4 52 L L 0 1 52 A 0 4 0	S 0.12 4 24 L L 0 1 34 A 0 1 10 4	N 0.56 4 24 H H O 5 34 F 8 1 10 4	S 0.56 4 24 H H U S 34 T O 1 10 T	S 1.09 4 24 H H 0 2 37 B 8 1 10 1	N 0.21 4 24 H H 0 2 37 B 8 1 10 1	031 4 54 H H 0 2 52 Q 8 4 0	2.95 2 24 H H 0 2 40 Q 8 1	0.60 2 24 H H 0 2 40 B 8 1	2 24 1 1 L 2 40 Q 6 1	7.52 2 24 1 1 0 2 40 E 6 1 8	0.14 2 20 L L 0 1 20 A 0 3 5	0.22 4 52 1 1 0 2 52 E 8 4 U	W 4 4 2 4 1 1 L 9 1 38 A 0 1 10 1	W 1.43 4 24 4 36 E 0	W 0.33 4 24 1 1 1 6 38 E 8 1 10 1	E 1.99 4 24 L 9 1 38 A 0 1 10 1
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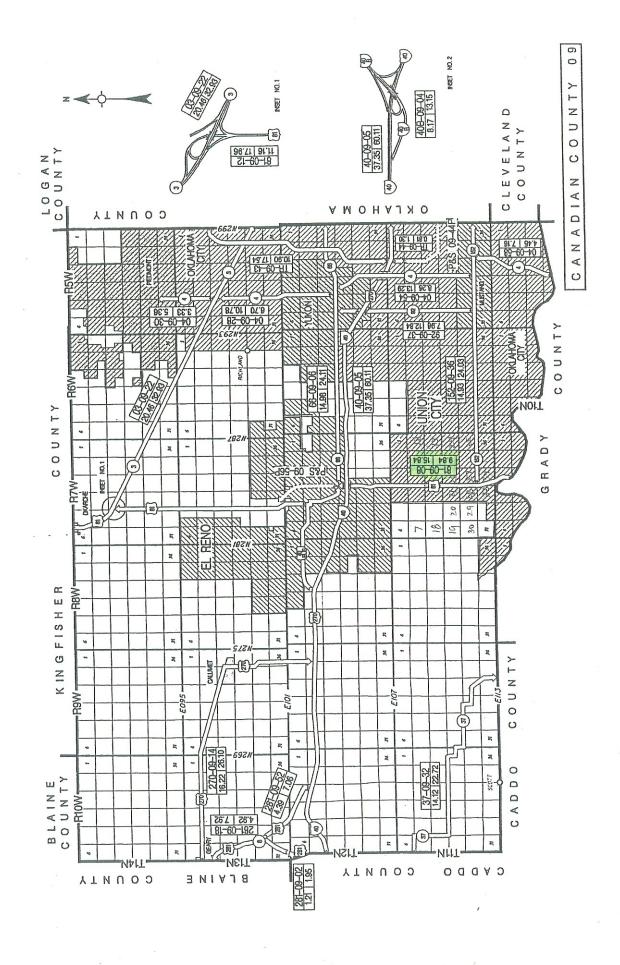
Wednesday, February 02, 2005

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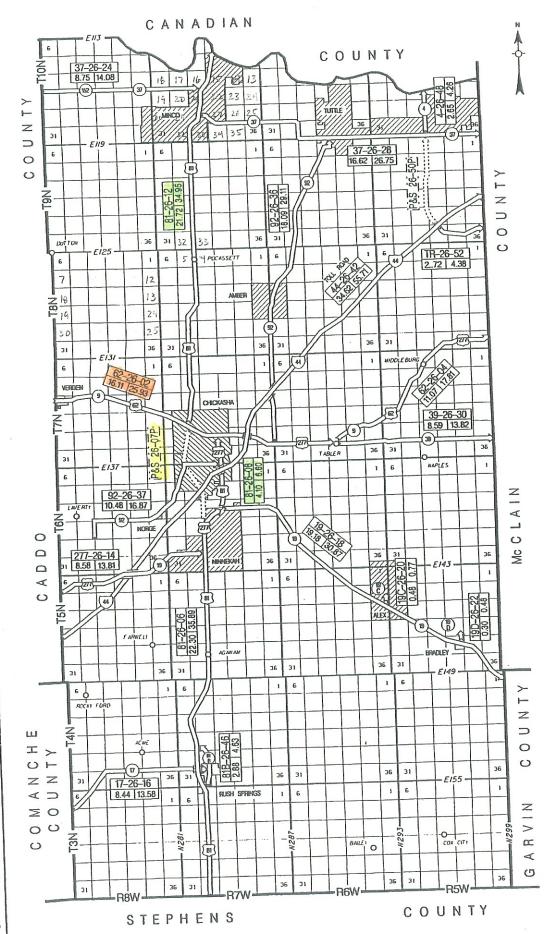
CANADIAN COUNTY OXLAHOMA DEPARTMENT OF TRANSPORTATION — CONTROL SEC 1LOG ----

	0.1																			CONSTRUCTED 2001		NEW ALIGNMENT 2002 FROM 0.00 FOR 1.21				CONSTRUCTED 2002
	ENDING DESCRIPTION	US 281 SPUR	JCT. US 81 IN EL RENO	OKLAHOMA COUNTY LINE	OKLAHOMA COUNTY LINE	CILL	JCI. SH 66 IN EL HENO	JCT. SH 3 (N. SIDE STR.)	JCT. I-40 (S. SIDE STR.)	BLAINE COUNTY LINE	OKLAHOMA COUNTY LINE	JCT, SH 3 N, OF YUKON	CO CINCONACTI FINCE	IN PIEDMON! (EDMOND RD.)	CADDO COUNTY LINE	OKLAHOMA COUNTY LINE	NOXIN STATE FIEVENTH STUN YUKON	טרוי את ספוואיאווא או מי ברבי ארויידון פין איין פין פין	JCT I-40(S. SIDE STR.)		OKLAHOMA COUNTY LINE	JCT. I-40 (S. SIDE STR.)	NOXIIV NIVER COOMICINAD & FO MINAMAZO LIG FOL	JCI. SH BE(MAIN SI & HANCHWOOD DI) IN 10101	JCT US 81	JCT SH 152 CON
Non- Non- Non- Non- Non- Non- Non- Non-	DIRECTION	EASTERLY	EASTERLY	SOUTHEASTERLY	FASTERIY	באסובויבי	NORTHERLY	NORTHERLY	EAST AND SOUTHERLY	NORTHERLY	SOUTHEASTERLY	NOBTHEB! Y		NORTHERLY	SOUTHEASTERLY	EASTERLY	7 101111000	NORTHERLY	SOUTHERLY	SOUTH & EAST	SOUTH & EAST	FASTERIY		NORTHERLY	NORTHWESTERLY	NORTHERLY
OKLAHOMA DEPARTMENT OF TRANSPORTATION — CONTINCT OF	LENGTH STARTING DESRIPTION	(W. END BR.)	P GORE PT)			14.98 JCI. US 81 IN EL MENO	9.84 GRADY COUNTY LINE (N. END BR.)	11.16 JCT. I-40B(RUSSELL ST & CHOCTAW AV)IN EL RENO		DE GEARY		NONLY MYDD 119/4	6.70 JCI. SH BB(MAIN SI & CORINWELL DIVIN 1010)	3.33 JCT, SH 3 N. OF YUKON		VE & 1ST ST) IN UNION CITY	T	7.98 JCT. SH 152 & CLEAR SPRINGS RD IN MUSTANG	10.90 OKLAHOMA COUNTY LINE					8.26 JCT. SH 152 & MUSTANG RD IN MUSTANG		4 45 GRADY COUNTY LINE (N. END BR.)
	ROUTE	119,281	2020	10 400	15.40	99 HS	US 81	115 81	110 270	0.000	M I	- 1	SH 4	SH 4	CH 37	5 6	SH 152	SH 92	L L	To	000	0 5	US 281	SH 4	2,2,0	A H.
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200.03 TOTAL COUNTY MILEAGE



11,070 18,109 COST IN THOUSANUS SECTION TOTAL 2,462 3,286 ESTIMATED IMPROVEMENT BRIDGE CANADIAN ROADWAY 50 33 33 かか MPROVEMENT 00 99 34 YT DHIOARD - N ** サキ ACC ESS CONT 44 02 NO. LANES 03 JUMMISSIONER DISTRICT DEZIGN CIVER AD 666 59 E S 23 000 22 65 65 TIMIL GAOJ 200 CURROR WIETH TYPE 6110 IHHA 6110 IHHA 7130 IHHA 7130 IHHA 17030 IHLH 13900 LLOH 13900 LLOH 13900 LLOH 13900 LLOH 15210 LLOH 15210 LLOH 15210 LLOH 17040 LLOH 1704 WETH LLOA BRDG BRDG I I OE HHOF SURFACEOR HHLA 110E H-HR 1 1 OE LLOH LLOH UP-H LLOH LLOH UP-H 2002 TYPE 10100 12040 12040 12040 12040 14870 14870 14870 14870 14870 1700 5520 5720 57170 57170 10100 AVERAGE DAILY TRAFFIC JULY 1, ANNUAL O.16 S SH 152 JCT SH 152 - TOWN CE UNION CITY RAISE ARE ENTER EL RENO UC/L SH 66 SH 66 N EL RENO LVE YUKON-ENT OKC C/ LVE YUKON-ENT OKC C/ JCT KILPATRICK T.P. JCT KILPATRICK T.P. OKLA CO LINE OKLA CO LINE OKLA CO LINE MIS N. 1-40B MIS N. 1-40B MIS N. 1-40B RENO U/L 0.25 MIS S. 1-40B 0.25 MIS S. 1-40B 0.25 MIS S. 1-40B RENO C/L 6TH 6TH N 1-40B EPARTMENT OF TRANSPORTATION 1.32 N 1-40B 2.6 MI N 1-40I SH 4 NORTH SH 4 SOUTH SH 4 SOUTH Z 770 TOWN CENTER AT % 801-1 % 801-1 CHANGE CHANGE SUFFICIENCY RATING REPORT CHANGE CHANGE ENDPOINT LEAVE EL ENTER YUKON 1-40B ROGERS ST 017-1 3RD STREET JCT 1-40 JCT SH 92 JCT SH 92 LEAVE 0.63 SHLDR SHLDR SHLDR SHLDR SURF JOL JCT 707 272 SUBSECTION MUNI-CIPAL LENGTH (RDY-WILES) (BRG - FEET) 1.34 604 1.76 RENO 0 UNION OKLA. YUKON HURAL 딥 09.59 00.00 00.19 00.63 00.91 00.91 01.32 03.22 ROADWAY BRIDGE(X) BEGINNING MILES N 09.01 S 09.51 S 09.91 10.37 11.11.11.72.11.72.03.03.04.00.56.00.54.00.55.00.54.00.55.00.54.00.55.00.55.00.55.00.55.00.55.00.55.00.55.00.55.00.55.00.55.00.55.00. X10.93 X11.04 9 LANNING DIVISION ПЗИЗИЗ 09-12 09-12 09-12 09-08 09-08 09-12 09-12 09-12 09-12 09-12 09-12 80-60 80-60 80-60 80-60 80-60 80-60 09-08 80-60 80-60 09-08 90-60 90-60 CONTROL SECTION NUMBER 90-60 90-60 90-60 90-60 90-60 90-60 90-60 90-60 **SKLAHOMA** 90-60 90-60 90-60 1000 1008 1008 1008 1800 1000 0081 0081 0081 0081 0081 1000 U081 U081 1000 1800 1000 1000 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 \$2066 1001 1000 1081 HIGHWAY NUMBER



RADY COUNTY 26

OKLAHOMA DEPARTMENT OF TRANSPORTATION — CONTROL S. IN LOG --- GRADY COUNTY

	1			- Citation of the citation of	A THOM
CONTROL	ROUTE	ROUTE LENGTH STARTING DESRIPTION	DIRECTION	ENDING DESCRIPTION	
2602	US 62	16.11 CADDO COUNTY LINE IN VERDEN	EASTERLY	JCT. SH 39 AT TABLER	
	US 62	11.07 JCT. SH 39 AT TABLER	NORTHEASTERLY	MCCLAIN COUNTY LINE S.W. OF BLANCHARD	
T	US 81	22.30 STEPHENS COUNTY LINE	NORTHERLY	JCT. SH 19, S. OF CHICKASHA	
0	S es	0.00 JCT, US 81 S. OF CHICKASHA	NORTHERLY	JCT. US 62 WEST OF CHICKASHA	
	US 81	4.10 JCT, SH 19(S. OF CHICKASHA)	NORTHERLY	JCT. US 62(CHOCTAW AV & 4TH ST)IN CHICKASHA	
	US 81	21.72 JCT, US 62 W. IN CHICKASHA	NORTHERLY	CANADIAN COUNTY LINE (N. END BRIDGE)	
	US 277	8.58 CADDO COUNTY LINE	EASTERLY	JCT. US 81 S. OF CHICKASHA	
T	SH 17	8.44 COMANCHE COUNTY LINE	NORTH & EASTERLY	JCT. US 81B(RUSH & BLAKELEY)IN RUSH SPRINGS	
	SH 19	19.18 JCT. US 81, S. OF CHICKASHA	SOUTHEASTERLY	GARVIN COUNTY LINE	
T	SH 19C	0.48 JCT. SH 19 S. OF ALEX	NORTHERLY	"E" AVE & MAIN ST IN ALEX	
	SH 19D	0.30 JCT. SH 19 IN BRADLEY	NORTHERLY	STATE MAINTENANCE ENDS SIGN	
	SH 37	8.75 CADDO COUNTY LINE	EASTERLY	JCT. US 81 IN MINCO	
	SH 37	16.62 JCT. US 81(W. SECOND ST & MAIN ST)IN MINCO	EASTERLY	MCCLAIN COUNTY LINE	
	SH 30	8.59 LCT. US 62 AT TABLER	EASTERLY	MCCLAIN COUNTY LINE	
	SH 92	18.09 JCT, US 62, E. OF CHICKASHA	NORTHEASTERLY	JCT. SH 37(MAIN ST & FOURTH)IN TUTTLE	
T	SH 92	10.48 LEWIS BURTSCHI LAKE S. OF LAVERTY	NORTHEASTERLY	JCT. US 81(4TH ST & GRAND BLVD)IN CHICKASHA	
T	15 44	34.62 CADDO COUNTY LINE	NORTHEASTERLY	MCCLAIN COUNTY LINE	
	11S 81B	2.88 JCT. US 81 S. OF RUSH SPRINGS	NORTHERLY	JCT. US 81 N. OF RUSH SPRINGS	
T	SH 4	2.65 JCT SH 37 IN TUTTLE	NORTHERLY	CANADIAN COUNTY LINE (N. END BRIDGE)	NEW CONSTRUCTION 2002
	S	0.00 JCT I-44 (H.E. BAILEY TURNPIKE)	NORTHERLY	JCT SH 37	
T	TOLL RD	2,72 JCT I-44 (H.E. BAILEY TURNPIKE)	EASTERLY	MCCLAIN COUNTY LINE	NEW CONSTRUCTION 2002





GRADY COUNTY 26

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-1105	20	17	0	THE R. C.	0					- 6	0 10	00			0.0	-0	000	50	00	00	00	00	00	00	00	00	0	00	00	2	00	2
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THE WEIGHT		ENDPOINT		BEG PC CONC CANADAIN CO LINE	3.28 MIS E CADDO CO/		ENTER NINNEKAH G/L	14	-			1.02 W US 81	RUSH SPRINGS	PC CONC 4TH S	Z MIS.	II CKASHA	NTER	.78 MIS. E. US EAVE NINNEKAH	3,93 MIS, E, US 81			3.86 W SH 19C		ENTER ALEX C/L		ALE	JCT SH 19C		ENTER BRADLEY C/L	SHLDR CH	JCT SI	LEAVE BRADLEY C/L
2	CTION	-	á				Pr-0		60		000			17.6				100	3							-				C	000	-
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SUFFICIEN	SUE	LENGTH (RDY-MILES) (BRG - FEET)	UHAL C		80 6	100	3,25	125	103 NINNEKAH	.22		6	0.0	USH		90.0		2	64	_				4 r	•	ALE	c	202	2.0	DDADI	DNADLE	
ו מט				20 2 3	0	5 61 5	0.60	60.0	N M	VD 65	7 - 6	20	3 V	-	00	0 0	P-1-	- co c	0 00	60 h	N	7 80	27	67	200	96	(n) (270	900	100	000	
NOIS		HOADWAY	BRIDGE(X) BEGINNING MILES	X19.53 20.20 20.94	X21.59	X00 . 82	X01.46 03.28	X03.78	X05.9%	06.80	X07.6	X08.4	06.8	07.0	20.00	00.7	X00.4	00.00	0.10	X04.2	XO4.	X04.5	X07.	XOX	X09.	X10.	6- 4	X13.	X13.	X14.	5 15 1	9
NG DIVI		SECTION	NOMBER OF THE PERSON	26-12	26-12	26-14	26-74	26-14	26-14	26-14	26-14	26-14	26-16	26-16	26-16	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18	26-18
LANNI		-	NOMBEH	U081 U081	081	277	277	277	277	1277	3277	5017	5017	2017	5017	\$010	5019	8019	S019	8019	8019	\$019 \$019	\$019	\$019 \$019	\$019 \$019	5019	\$019	\$019	8019	8019	\$019 \$019	\$019 \$019

TAT 19.
BRIDGE TATE CODES

BRIDGE CODES OP-H OP-R OP-P H-HR BRDG H-HW H-RW OTHR UP-R UP-R UP-R UP-R UP-R UP-R UP-R UP-	Highway over a highway, with or without pedestrian crossing. Highway over a railroad. Highway over a pedestrian crossing only. Highway over a highway and railroad. Highway over a highway and railroad. Highway over a highway and waterway. Highway over a highway, railroad and waterway. Highway over a highway, railroad and waterway. Highway over a highway, railroad and waterway. Highway under a highway. Highway under a highway and railroad. Highway under a highway and railroad. Highway under a highway and pedestrian crossing. Highway under a highway and pedestrian crossing. Highway under a highway and pedestrian crossing. Highway under a third level (interchange or second level of multilevel. Highway under a third level (interchange). Highway under a building of plaza.
UP-O BXBR	Highway under others. Box bridge not underfill.
BXUF	Box bridge underfill.

2003

NEEDS STUDY

CONSTRUCTION COST

ESTIMATES

Strategic Planning Branch Planning & Research Division

2003

4000

INTRODUCTION

This report contains construction Costs Per Mile for all standard improvement types and design standards. It contains sufficient cost information to determine an estimated construction cost for any type rural or urban highway improvement. The Costs Per Mile were developed by the Strategic Planning Branch of the Planning Division and are used in determining the construction dollar needs for the state highway system as shown in the continuing highway needs study report.

All cost figures shown include 15% for Administration, Engineering and Contingencies. These costs are for planning purposes only, an actual individual project improvement or cost may differ when a detailed project study is performed. Costs are shown in thousands of dollars.

RURAL IMPROVEMENT TYPES

The Rural Improvement Types possible, are as follows:

- Widen and Resurface to standard with little or no grade or alignment change.
- If less than 50% of the roadway has geometry's requiring reconstruction, widen & resurface and correct geometry's Complete reconstruction of roadway on existing alignment. 02
- Construct on offset alignment using existing facility as a detour.
- Od Construct on new alignment.
- Construct 2 parallel lanes, no improvement to existing lanes.
- 06 Construct 2 parallel lanes, widen and resurface existing lanes.

Rural Grading Types are as follows:

- Light May apply in flat, rolling or mountainous terrain where grading to standard width would require little if any movement of material other than borrow from the side ditches.
- Medium May apply in any terrain type. Grading would require some small amount of cut and fill, mostly around stream crossing, but otherwise would fit the natural slope of the terrain. 1 N
- Medium Heavy May apply in any terrain type. Choppy terrain requiring considerable amounts of cut and fill with most of the overhaul within the non-pay category. 1 က
- Heavy May apply in any terrain type. Rough terrain requiring almost continuous cut and fill to maintain proper grade line. Large fill to raise grade line above flood or surface water.
- Extra Heavy Applies in extremely hilly and mountainous terrain. Requires heavy cuts and fills to maintain proper grade line.

Where full control of access is proposed, the cost for grade separations and interchange structures are shown as a cost per mile figure under the structure column. Stream crossing structure costs are incorporated from the Bridge Division Database File.

Find the appropriate improvement type, design class and grading type and determine the cost per mile.

2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 01
Widen and Resurface to Standard Section with little or no Vertical or Horizontal Corrections

Includes 15% A., E. & C.	A., E. & C						-		Tago	2000							
				- Company					1803	סבטווסבווטבו		_	PICHT	PICHT OF WAY			Total
Number	Future	Access	Grading	GRADE 8		BASE &	BASE & SURFACE	SOD	SOD & SIGN	STRUCTURE		-	TION.			100	330
jo	Design	Control	Type		5.760		5.880		5.100			ť	5.100	opo	Book	5.100	R/W
Lanes	Class			Base	Factor	Base	Factor	Base	Factor	Base Factor	Code	pase	Lacion	L	23.6	1204	6024
			1) Light	24.0	138,2	72.0	423.4	8.0	40.8			13.0	75.7	0 1	28.8	146.9	637.0
Buy 4-Ln. R/W		None	2) Medium	30.0	172.8	72.0	423.4	8.0	40.8			5. 5. 5. 11.	1.0.7		30.7	100.0	665.8
en	7	0,1	3) Med. Heavy	35.0	201.6	72.0	423.4	8.0	40.8			0.0	7.40			2	729.1
			4) Heavy	46.0	265,0	72.0	423.4	8.0	40.8			1.77	131 4				792.5
			5) Ex. Heavy	57.0	328.3	72.0	423.4	8.0	40.8		1	0.03	2. 0.10		11 6	58.7	602.4
			1) Light	24.0	138.2	72.0	423.4	8.0	40.8			6.9	0.00	ori	0.00	100.0	637.0
		None	2) Medium	30.0	172.8	72.0	423.4	8.0	40.8			7.7	39.3		13.9	6.0	0.750
6	1.2.4	0	3) Med. Heavy	35.0	201.6	72.0	423.4	8.0	40.8			9.4	47.8		16./	7.09	000.0
1	3.7		4) Heavy	46.0	265.0	72.0	423.4	8.0	40.8			11.1	56.4				1000
			5) Ex. Heavy	57.0	328,3	72.0	423.4	8.0	40.8		9	12.7	65.0				192.0
			1) Light	22.0	126.7	68.0	399.8	7.5	38.3			5.9	30.0	9.	9.7	49.5	504.8
		None	2) Medium	28.0	161.3	68.0	399.8	7.5	38.3			9.9	33.6		11.7	29.7	4.666
6	rc.	0	3) Med, Heavy	33.0	190.1	68.0	399.8	7.5	38.3		90	8.0	40.7		15.7	60.1	2.620
1	,		4) Heavy	44.0	253.4	68.0	399.8	7.5	38.3			9.4	47.8				0.190
-			5) Ex. Heavy	55.0	316.8	68.0	399.8	7.5	38.3			10.8	25.0			, 0,	8.4c/
			1) Light	15.0	86.4	35.0	205.8	6.0	30.6			2.7	29.3	200	6.1	40.4	322.0
		None	2) Medium	20.0	115.2	35.0	205.8	0.9	30.6			6.3	32.1		10.9	55.6	351.6
0	o	0	3) Med. Heavy	25.0	144.0	35.0	205.8	6.0	30.6		0	7.8	40.0	0	14.5	74.0	380.4
			4) Heavy	30.0	172.8	35.0	205.8	0.0	30.6			8.8	45.0				408.4
			5) Ex. Heavy	35.0	201.6	35.0	205.8	0.0	30.6		200	10.1	51.4		0	100	450.0
			1) Light	15.0	86.4	68.0	399.8	7.0	35.7			4.8	24.3	D I	7. 6	30.7	550.7
		None	2) Medium	20.0	115.2	68.0	399.8	7.0	35.7			5.2	26.4		, c	44.4	2000
2	9	0	3) Med. Heavy	25.0	144.0	68.0	399.8	7.0	35.7		0	6.2	31.4		:	2.60	5083
			4) Heavy	30.0	172.8	68.0	399.8	7.0	35.7			.3	36.1				227.4
			5) Ex, Heavy	35.0	201.6	68.0	399.8	2.0	35.7		M-0.1%	8.3	42.1		1	1.00	001.1
			1) Light	10.0	57.6	25.0	147.0	5.0	25.5			4.8	24.3		7.7	1.00.	248 0
		None	2) Medium	15.0	86.4	25.0	147.0	2.0	25.5			27	26.4		000	1 1 1	2877
^	10, 13	0	3) Med. Heavy	20.0	115.2	25.0	147.0	5.0	25.5			6.2	4.1.4	0	11.7		246.6
			4) Heavy	25.0	144.0	25.0	147.0	2.0	25.5			5. 6	56.7				345.3
			5) Ex. Heavy	30.0	172.8	25.0	147.0	5.0	25.5		0	8.3	47.1	STORES STORES			
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												All pase	K/W = IC	מממכ			

2002 RURAL DESIGN COST PER MILE
IMPROVEMENT TYPE 04
Widen and Resurface to Standard Section with little or no Vertical or Horizontal Corrections

1		Total	Less	MAN	322.8	351.6	380.4	409.2	438.0									
			5.100	Factor	27.5	32.6	42.8											m 2002.
		7		Base	5.4	6.4	8.4								Ì			All base R/W increased 1,40 from 2002.
		RIGHT-OF-WAY		Code	9		001				が記され					機能能		ıcreased
		RIGH	5.100	Factor	19.3	20.7	24.3	27.8	31.4					 				e R/W ir
				-[3.8	4.	4.8	5.5	6.2		1 24	W 200 - Alice	I R	Delta-		100	V.	All bas
			****	Code					200		がある。		2000					
	MILE	STRUCTURE	5.970	Factor										 _				
	PER M	STRU		Base						·								
	COST	SOD & SIGN	5.100	Factor	30.6	30.6	30.6	30.6	30.6				T					
		SOD 8		Base	6.0	6.0	6.0	6.0	6.0				1	 -		ľ		
		URFACE	5.880	Factor	205.8	205.8	205.8	205.8	205.8								anna a menana kemala da da da yang masaba	
		BASE & SURFACE		Base	35.0	35.0	35.0	35.0	35.0		-		-	 -		-		
		GRADE & DRAIN	5,760	Factor	86.4	115.2	144.0	172.8	201.6									
		GRADE		Base	15.0	20.0	25.0	30.0	35.0				-	 -		-		
		Grading	Type		1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy									
		Access	Control				0								and the second second second			
A., E. & C		Future	Design	Class			11,12					2.2						
Includes 15% A., E. & C.		Number	Jo	Lanes			2						-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

2002 RURAL DESIGN COST PER MILE
IMPROVEMENT TYPE 02
Widen Resurface and Correction of Vertical and Horizontal Deficiencies or Reconstruct on Existing Alignment

Includes 15% A., E. & C.

includes 10707; i. o.	i					-	and the second named in column 2 is not the second	-	TSOS	DER MILE								_
Nrmher	Fufure	Access	Grading	GRADE	& DRAIN	BASE &	BASE & SURFACE	SOD	SOD & SIGN		JE .		R	RIGHT-OF-WAY	F-WAY			Total
of	Design	Control	Type				5.880		5.100	5.6	170		'n	5.100			5.100	Less
Lanes	Class		;	Base	Factor	Base	Factor	Base	Factor	Base Fa	Factor C	Code E	Base Fa	Factor (Code	Base	Factor	R/W
			1) Light	36.3	209.1	95.7	562.7	15.4	78.5		220		35.8	182.6	. 6.6	105.0	535.5	850.3
Buy 4-Ln. R/W		None	2) Medium	48.4	278.8	95.7	562.7	15.4	78.5			7	42.0 2	214.2		130.2	664.0	920.0
e	ო	0	3) Med. Heavy	62.7	361.2	95.7	562.7	15.4	78.5		and the second	37		279.5		180.8	922.1	1,002.4
			4) Heavy	79.7	459.1	95.7	562.7	15.4	78.5		NATE OF THE PARTY)		342.7				1,100.3
	terior		5) Ex. Heavy	101.2	582.9	95.7	562:7	15.4	78.5	-	25.64	3 29	-	412.1				1,224.2
			1) Light	34.1	196.4	91.3	536.8	13.2	67.3		WATE OF			122.4	2,004	83.2	424.3	800.6
-		None	2) Medium	46.2	266.1	91.3	536.8	13.2	67.3				29.2	148.9		96.4	491.6	870.3
2	es	0	3) Med. Heavy	60.5	348.5	91.3	536.8	13.2	67.3		ionie.			193,8		136.8	697.7	952.6
			4) Heavy	77.0	443.5	91.3	536.8	13.2	67.3		(es)			47.9	T.			1,047.7
			5) Ex. Heavy	0.66	570.2	91.3	536.8	13.2	67.3		SEA		57.2 : 2	291.7				1,174.4
			1) Light	34.1	196.4	91.3	536.8	13.2	67.3		in the			58.1	9	38.8	197.9	800.6
		None	2) Medium	46.2	266.1	91.3	536.8	13.2	67.3		STATE OF		. – .	71.4		48.8	248.9	870.3
2	1,2,3	0	3) Med. Heavy	60.5	348.5	91.3	536.8	13.2	67.3		a second	0		95.9	0	68.8	350.9	952,6
	4.7		4) Heavy	77.0	443.5	91.3	536.8	13.2	67.3		STAR.			122.4			-	1,047.7
			5) Ex. Heavy	0.66	570.2	91.3	536.8	13.2	67.3		asse:			146.9				1,174.4
			1) Light	29.7	171.1	0'88	517.4	6.6	50.5					58.1	6	38.8	197.9	739.0
		None	2) Medium	42.9	247.1	88.0	517.4	6.6	50.5		Sug			71.4		48.8	248.9	815.0
2	5,8	0	3) Med. Heavy	56.6	326.0	88.0	-517.4	6.6	50.5		जोतिह _{ें}		. –	95.9	10	68.8	350.9	893.9
			4) Heavy	72.6	418.2	88.0	517.4	6.6	50.5		ten A		24.0 1 1	22.4				986.1
			5) Ex. Heavy	95.7	551.2	88.0	517.4	6.6	50.5	-	1467	100	-	146.9				1,119.2
			1) Light	19.8	114.0	51.7	304.0	7.7	39.3		onia			55.1	(February	35.6	181.6	457.3
		None	2) Medium	29.7	171.1	51.7	304.0	7.7	39.3		THE PARTY NAMED IN			66.3		44.8	228.5	514.3
2	o	0	3) Med. Heavy	42.9	247.1	51.7	304.0	7.7	39.3					89.8	8	62.6	319.3	590.4
			4) Heavy	56.1	323.1	51.7	304.0	7.7	39.3		reside.			112.2				666.4
			5) Ex. Heavy	66.0	380.2	51.7	304.0	7.7	39.3		MAGNI	1900	24.6 1	125.5				723.4
			1) Light	20.9	120.4	80.3	472.2	7.7	39.3		are the		6.0	30.6		15.4	78.5	631.8
Destrologi		None	2) Medium	33.0	190.1	80.3	472.2	7.7	39.3		nam'i			34.7		18.8	95.9	701.5
7	9	0	3) Med. Heavy	46.2	1.992	80.3	472.2	7.7	39.3		4127			45.9		25.6	130.6	5777
			4) Heavy	58.3	335.8	80.3	472.2	7.7	39.3		a Koʻzini			53.0				948.6
			5) Ex. Heavy	75.9	437.2	80.3	472.2	7.7	39.3		100	10 m	12.0	7.10	10000000000000000000000000000000000000			2040
	-												•			+		

All base R/W increased 2.00 from 2000.

2002 RURAL DESIGN COST PER MILE
IMPROVEMENT TYPE 02
Widen Resurface and Correction of Vertical and Horizontal Deficiencies or Reconstruct on Existing Alignment

Includes 15% A., E. & C.

	Total	Less	RW	329.7	322.8	462.8	532.5	640.2	455.6	512.6	569.6	626.7	683.7			
		5.100	Factor	78.5	95.9	130.6			118.8	146.9	207.1					
	,		Base	15.4	18.8	25.6			23.3	28.8	40.6					4
	RIGHT-OF-WAY		r Code	9												
	RIGH	5,100	Factor	30.6	34.7	45.9	53.0	61.2	36.7	43.9	54.1	73.4	88.7		 	
			Base	6.0	6.8	0.0	10.4	12.0	7.2	8.6	10.6	14.4	17.4	2000 200 V		4
		0	or Code		6											
MILE	STRUCTURE	5.970	Factor												 	
T PER MILE	STR	L	Base						L							
COST	SOD & SIGN	5.100	Factor	33.7	33.7	33.7	33.7	33.7	50.5	50.5	50.5	50.5	50.5			
	SOD		Base	9.9	9.9	9.9	6.6	6.6	9.6	9.6	9.9	6.6	6.6			
	RFACE	5.880	Factor	226.4	226.4	226.4	226.4	226.4	291.1	291.1	291.1	291.1	291.1			
	BASE & SURFACE		Base									49.5			 	
	-	09	Factor	_	-	_		-	\vdash				_			
	GRADE & DRAIN	5.7											342.1	.=.=.	 	
	GRA		Base	12.1	10.9	35.2	-		19.8	29.7	39.6	49.5	59.4			
	Grading	Type		1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy			
	Access	Control			None						0					
	Future	Design	Class			10,13					11,12					
	Number	of	Lanes			2					2					

2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 03 Reconstruct on Offset Alignment

Includes 15% A., E. & C.	A. E. & C								0									
									COST	PER M	MILE						1	1
Nimber	Firhira	Access	Grading	GRADE	E & DRAIN	BASE&	BASE & SURFACE	SOD	SOD & SIGN	STRU	STRUCTURE			RIGHT-OF-WAY	F-WAY			lotal
of	Design	Control	Туре		5.760		5.880		5.100		5.970			-			5.100	Less
Lanes	Class			Base	Factor	Base	Factor	Base	Factor	Base	Factor	Code	Base	-	Code	Base	Factor	KW
		Full	1) Light	49.5	285.1	126.5	743.8	13.2	67.3	5.5	32.8		38.5	196.4		90.0	459.0	1,129.1
Biv 4-1 n. R/W		Ultimate	2) Medium	69.5	400.3	126.5	743.8	13.2	67.3	5.5	32.8	2	43.0	219.3		108.8	554.6	1,244.3
	6	,	3) Med. Heavy	0.66	570.2	126.5	743.8	13.2	67.3	5.5	32.8	100	52.5	267.8	0	143.5	731.9	1,414.2
1			4) Heavy	121.0	697.0	126.5	743.8	13.2	67.3	5.5	32.8		61.8	314.9				1,540.9
			5) Ex. Heavy	360.0	2,073.6	126.5	743.8	13.2	67.3	5.5	32.8	200	72.5	369.8		-		2,917.6
			1) Light	44.0	253.4	115.5	679.1	11.0	56.1				30.0	153.0	6	104.0	530.4	988.7
Buy 4-Ln. R/W		None	2) Medium	66.0	380.2	115.5	679.1	11.0	56.1				36.5	186.2		120.5	614.6	1,115,4
67	3.7	0	3) Med. Heavy	93.5	538.6	115.5	679.1	11.0	56.1				47.5	242.3	8	171.0	872.1	1,273.6
•	;		4) Heavy	115.5	665.3	115.5	679.1	11.0	56.1				60.8	309.8		• •		1,400.5
			5) Ex. Heavy	360.0	2,073.6	115.5	679.1	11.0	56.1				71.5	364.7				2,808.8
			1) Light	44.0	253.4	115.5	679.1	11.0	56.1			機器	16.8	85.4	0	37.5	191.3	988.7
		None	2) Medium	66.0	380.2	115.5	679.1	11.0	56.1				18.5	94.4		43.8	223.1	1,115.4
•	67	-	3) Med. Heavy	93.5	538.6	115.5	679.1	11.0	56.1				22.5	114.8		55.0	280.5	1,273.8
ı	,	,	4) Heavy	115.5	665.3	115.5	679.1	11.0	56.1				26.0	132.6				1,400.5
			5) Ex. Heavy	360.0	2,073.6	115.5	679.1	11.0	56.1			1	30.0	153.0				2,808.8
			1) Light	38.5	221.8	110.0	646.8	9.6	50.5				16.8	85.4	i.	45.0	229.5	919,1
-		None	2) Medium	60.5	348.5	110.0	646.8	9.9	50.5			(0)	18.5	94.4		56.2	286.6	1,045.8
	1 2 4	0	3) Med. Heavy	84.7	487.9	110.0	646.8	6.6	50.5				22.5	114.8		75.0	382.5	1,185.2
	5.8		4) Heavy	108.9	627.3	110.0	646.8	6.6	50.5				28.7	146.4				1,324.6
· · · · · · · · · · · · · · · · · · ·	:		5) Ex. Heavy	350.0	2,016.0	110.0	646.8	9.9	50.5			200	35.0	178.5				2,713.3
			1) Light	33.0	190.1	71.5	420.4	10.5	53.6				15.0	76.5	9	39.8	202.7	1.600
		None	2) Medium	49.5	285.1	71.5	420.4	10.5	53.6				17.3	88.0		48.8	246.0	0 200
2	6	0	3) Med. Heavy	71.5	411.8	71.5	420.4	10.5	53.6	udum			21.8	110.9		9.00	4.040	0.000
			4) Heavy	93.5	538.6	71.5	420.4	10.5	53.6				26.3	133.9				0.710,1
			5) Ex. Heavy	320.0	1,843.2	71.5	420.4	10.5	53.6				30.8	156.8			0.00	2,317.2
			1) Light	27.5	158.4	88.0	517.4	8.8	44.9				7.5	38.3	0 1	19.3	2,00	1.021
		None	2) Medium	49.5	285.1	88.0	517.4	8.8	44.9				8.5	43.4		23.0	8.60	4.040
2	9	0	3) Med. Heavy	73.7	424.5	88.0	517.4	8.8	44.9				11.3	57.4		32.0	7.501	0.000
			4) Heavy	6.76	563.9	88.0	517.4	8.8	44.9				13.0	66.3				2,021,1
			5) Ex. Heavy	390.0	2,246.4	88.0	517.4	8.8	44.9			9	15.0	(6.5		-		4,000.
			2000 mon DAM of A A A B increased from 2000	7887	8 increases	od from 20	000						T All base	一 All base R/W increased 2.50 from 2000.	eased 2	, 2.50 fror	n 2000.	
			Dase RVVV coo	0 4,0,0,	0 11101000	1 1 1 7 1 7												

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2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 03
Reconstruct on Offset Alignment

	T	lotal	Less	KW	482.5	600,4	730.1	859.8	2,425.5	583,4	671.9	760.3	848.8	2,014.6																	
			5.100	Factor	98.2	119.9	163.2			128.8	151.7	184.9																			n 2000.
				Base	19.3	23.5	32.0		-	25.3	29.8	36.3																			All base R/W increased 2.00 from 2000.
		RIGHT-OF-WAY	-	Code		2				i je									養養養					es.		ははない。					creased
		RIGHT	5,100	Factor	38.3	43.4	57.4	66.3	76.5	62.0	71.4	82.9	94.4	105.8					ļ			 _									e R/W Ir
				Base	7.5	8.5	11,3	13.0	15.0	12.8	14.0	16.3	18.5	20.8	*****	50 SV 90	NP CO	-1270 Fatt	010	00)	wavele	= सर्व	midsica)	752AH	AND 18	93/196	Politica	10000	W.C.	46224	♣ All bas
				Code																		SERVICE SERVIC									
	MILE	STRUCTURE	5.970	Factor																		 _									
Section of the least of the lea	PER M	STRU		Base																				Daniel							
5	COST	SOD & SIGN	5.100	Factor	33.7	33.7	33.7	33.7	33.7	44.9	44.9	44.9	44.9	44.9																	
		S dos		Base	6.6	6.6	6.6	6.6	6.6	8.8	8.8	8.8	8.8	8.8					-												
		RFACE	5.480	Factor	301.4	301.4	301.4	301.4	301,4	361.7	361.7	361.7	361.7	361.7																	
		BASE & SURFACE		Base		55.0	55.0	55.0	55.0	66.0	66.0	66.0	66.0	66.0					+			 - -		. –		-					
		\vdash	\vdash	_	\vdash		-	524.7		176.9	-		442.2	Person								 \dagger									
		GRADE & DRAIN	rt.	Base F				97.9		33.0 1 1						. – -			-			 - -		•							
		Grading		-	1) Light	E	avv		aw	\dagger	E	avy	-	- AME								 1									
		Access	Control		ľ	None		-	u;		None 2	-		4)																	
A., E. & C.		Fufure	Design	Class			10.13	!				11.12																			
Includes 15% A., E. & C.		Nimber	jo	lanes			^	1				2																			

2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 04
Construct on New Alignment

		T	Less	+		-	and the Party		+		-			+	2,818.4	-	-	3,642.1	+	-	-	_		+		4,011,1	-		+				1,351.1	3,001.0
Section 1				-				0.0	-1		783.4		0.0		620.2				··ŀ		•-		0.0	- -										
		IAY			超 121.6	153.6	图 217.6	0.0	0.0	121.6	153.6	217.6		TES.	121.6	153,6	第 217.6	0.0	0.0	721.6	153.6	217.6		24	96.0	108.8	153.	0.0	0.0	46.4	29.5	84.8		100
11		RIGHT-OF-WAY	-	tor Code	4.	.2	6.	4.	0.	4.	.2	6. 8.	4.	0.	4.	.2	6:	4.0	0.	4.	212.2	6.	5.4	O. 2000	2.4	155.0	0.4	9.3	318.2 影響	57.1	4.	106.1	138.7	71.4 淡翠
		RIG	5.100	e Factor			. –		-		212.2				171.4									-										
					33.6	41.6	29.7	73.6	89.6	33.6	41.6	59.7	73.6	89.6	33.6	41.6	59.2	73.0	89.0	33.0	41.	29.	73.6	88.	24.	30.4	35000000000000000000000000000000000000	52.	题 62.	11.2	14.4	20.8	27.2	33.
A Control of the Cont		Œ	-	Factor Code		M.				98.5	3.5	98.5	98.5	3.5	9.7	9.7	9.7	9.7	8.2	2.8	2.8 製	2.8	32.8	5.8 翻										が
	MILE A	STRUCTURE	5.5	Base Fa								- , -				-							5.5	-										- -
	COST PER			-			_	_	\dashv		5 16.5				t 77.0				_	\vdash				-			_	_	_	10				
	S	SOD & SIGN	5.100	Factor	101.0	101.0	101.0	101.0	101.0	1 151.5	151.5	151.5	151.	151.5	, 224.4	224.	224.4	224.	224.	67.3	67.3	67.3	67.3	i 67.3	! 56.1	56.1	56.1	56.1	56.	: 50.5	50.5	50.5	50.5	50.5
Z		SO		Base	19.8	19.8	19.8	19.8	19.8	29.7	29.7	29.7	29.7	29.7	44.0	44.0	44.0	44.0	44.0	13.2	13.2	13.2	13.2	13.2	11.0	11.0	11.0	11.0	11.0	9.9	9.9	9.9	9.9	6.6
Albumbing wew monancino		URFACE	5.880	Factor	1,358.3	1,358.3	1,358.3	1,358.3	1,358.3	1,423.0	1,423.0	1,423.0	1,423.0	1,423.0	1,564.1	1,564.1	1,564.1	1,564.1	1,564.1	740.9	740.9	740.9	740.9	740.9	679.1	679.1	679.1	679.1	679.1	646.8	646.8	646.8	646.8	6468
3		BASE & SURFACE		Base	231.0	231.0	231.0	231.0	231.0 i	242.0 !	242.0	242.0	242.0	242.0	266.0	266.0 ;	266.0 i	266.0	266.0	126.0	126.0	126.0	126.0	126.0 i	115.5	115.5	115.5	115.5	115.5	110.0	110.0	110.0	110.0	11001
		E & DRAIN	5.760	Factor	\vdash	0.769	-	-	-	H				-	H		-		647.4	285.1	411.8	570.2	0.769	,384.6	253.4	380.2	538.6	665.3	.384.6	250.6	371.5	515.5	653.8	10000
		GRADE & I		Base												154.0	٠-		286.0 ! 1	+.				414.0 1 2			93.5			··				-
	-	_	<u></u>		7	**	-			H	-	_			\vdash		aw	*************	-	\dagger		aw			H		aw.			\dagger		3/5		-
		Grading	Type		1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Linht	2) Madium	3) Med Heavy	4) Heavy	1
		Access	Control			None				Full	Ф	-				lu r	_			Full	e.					None	c	,			Non	9	,	
т «	-	Fufure	-				1 2 4					1.2.4					1.2.4					m	Urban-22				ď	,				cc u)	
Includes 15% A F & C.	- Constant	Number		tr	+		7	,				4					4				Buy 4-1 n. R.W.	2.3				Buv 4-Ln. R/W		2					1	

All base R/W increased 1.60 from 2000.

2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 04 Construct on New Alignment

		Total	Less	RW	704.4	4.00	1,026	2.200,1	7,000,7	789.8	916.6	1,054.0	6.767,1	2,800.3	623.0	718.1	613.1	2.808	1,873.0									
			5.100	Factor	213.0	27.7.3	388.7		1	83.2	9.66	132.2		1	150.1	186.9	2007											п 2000.
-				Base	41.8	53.4	76.3			16.3	19.5	6.62			29.4	36,6	57.3			 	-		 		 	 •	+	All base R/W increased 1.60 from 2000.
-		RIGHT-OF-WAY	-	Code			i ja																	がある。				creased
		RIGHT	5.100	Factor	51.4	57.9	95.5	124.8	154.2	38.4	42.4	20.6	58.8	6.99	41.6	51.4	71.0	9.06	110.2	 	 _		 		 	 		RW in
				Base	10.1	11.4	18.7	24.5	30.2	7.5	8.3	6.6	11.5	13.1	8.2	10.1	13.9	17.8	21.6								+	All base
				Code					9		cų.													A STATE OF THE STA				
	PER MILE	STRUCTURE	5.970	Base Factor					_							•				 	 _		 		 	 		
	COST	SOD & SIGN	5.100	Factor	53.6	53.6	53.6	53.6	53.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9									
		SOD		Base	10.5	10.5	10.5	10.5	10.5	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				 		 	 		
		BASE & SURFACE	5.880	Factor	420.4	420.4	420.4	420.4	420.4	517.4	517.4	517.4	517.4	517.4	388.1	388.1	388.1	388.1	388.1			0				 		
		BASE &		Base	71.5	71.5	71.5	71.5	71.5	88.0	88.0	88.0	88.0	88.0	0.99	0.99	0.99	0.99	66.0									
		F & DRAIN	5.760	Factor	230.4	325.4	452.2	578.9	2,191.7	227.5	354.2	492.5	9.069	2,304.0	190.1	285.1	380.2	475.2	1,440.0									
\		GRADE	1000	Base	40.0	56.5	78.5	100.5	380.5	39.5	61.5	85.5	119.9	400.0	33.0	49.5	66.0	82.5	250.0									
		Grading	Type		1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy									
		99000	Control			None						0					0											
A. E. & C.		E critica	Disting	Class			9,10					6.13					11 . 12											
Includes 15% A., E. & C.		Mirmhor	Paringel	Lanes			2					2					2					physical						

2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 05 Add 2 New Lanes, No Improvement to Old Lanes

Includes 15% A., E. & C.

	Total	Less	R/W	992.9	1,151.3	1,309.7	1,436.4	3,098.8	2,163.8	2,417.3	2,575.7	2,765.7	4,375.7			
		5.100	Factor	318.2	348.5	469.9			382.3	469.0	555.7			-		
			Base	62.4	68.3	92.1		-	75.0	92.0	109.0					
	RIGHT-OF-WAY		Code	100					19		80.7			1000		
	RIGHT	5.100	Factor	118.8	136.1	162.1	196.8	222.8	143.9	165.6	208.9	252.3	295.6	 -	 	
			Base	23.3	26.7	31.8	38.6	43.7	28.2	32.5	41.0	49.5	58.0			
			Code		ò	10								心を表		
LE	STRUCTURE	5.970	Factor						459.7	459.7	459.7	459.7	459.7		 	 -
10	STRU		Base						0.77	0.77	0.77	77.0	77.0		30	-
COST	SOD & SIGN	5.100	Factor	67.3	67.3	67.3	67.3	67.3	224,4	224.4	224.4	224.4	224.4			-
	SOD		Base	13.2	13.2	13.2	13.2	13.2	44.0	44.0	44.0	44.0	44.0	 -	 	
	RFACE	5.880	Factor	646.8	646.8	646.8	646.8	646.8	9.660,	1,099.6	9.660,	9.660,	1,099.6			-
	BASE & SURFACE		Base	ļ		110.0						187.0		 -	 	
	-			\vdash		-	-		-				-			
	GRADE & DRAIN	5,760	Factor	278.8	437.2	595.6	722.3	1 2,384.6	380.2	. 633.6	792.0	982.1	2,592.0	 	 	 -
	GRAD		Base	48.4	75.9	103.4	125.4	414.0	0.99	110.0	137.5	170.5	450.0			
	Grading	Туре		1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy	1) Light	2) Medium	3) Med. Heavy	4) Heavy	Ex. Heavy			
	Access	Control			halvedoran	0			Г	Initial						
	Future		_			1,2,4	7				1,2,4	7	-			
	Number	of	Lanes			4					4					

6

All base R/W increased 1,70 from 2000.

2002 RURAL DESIGN COST PER MILE IMPROVEMENT TYPE 06 Add 2 New Lanes, Widen & Resurface Old Lanes

Includes 15% A., E. & C.

	Total	Less	M.	1,574.8	1,764.8	1,954.9	2,151.3	3,844.8	2,781.6	3,073.0	3,263.1	3,522.9	5,071.7	******		1									
		5.100	Factor	187.2	205.0	276.4			224.9	275.9	326.9				 			 	-	 			 		
			Base	36.7	40.2	54.2			44.1	54.1	64.1														
	F-WAY		Code	100																					
	RIGHT-OF-WAY		$\overline{\cdot}$	6.69	80.1	95.4	115.8	131.1	84.7	97.4	122.9	148.4	173.9												
			Base	13.7	15.7	18.7	22.7	25.7	16.6	19.1	24.1	29.1	34.1		 			 	-	 	 		 		
			Code		c i																	NAME OF THE PARTY			
	URE	5.970	_						459.7	459.7 -	459.7	459.7	459.7												
PER MILE	STRUCTURE		Base	77.0	77.0	77.0	77.0	77.0	77.0	0.77	0.77	77.0	77.0		 			 		 	 	1	 		-
COST	NOIS	5.100	actor	89.8	89.8	89.8	83.8	8.68	224.4	224.4	224.4	224.4	224.4					-g			 	\dagger		wdvoint-re	
	SOD & SIGN	-													 			 		 	 	-	 		
	ш		\dashv	-	-	-	entret			~~~			-		 		-	 	-		 	+	 		-
	BASE & SURFACE	5.880	Facto	1,047.8	1,047.8	1,047.8	1,047.8	1,047.8	1,565.	1,565.3	1,565.	1,565.	1,565.												
	BASE&		Base	178.2	178.2	178.2	178.2	178.2	266.2	266.2	266.2	266.2	266.2		 			 							
	& DRAIN	5.760	Factor	437.2	627.3	817.3	,013.8	2,707.2	532.2	823.7	1,013.8	1,273.5	2,822.4												
	GRADE &							470.0 1 2	۱			221.1			 			 		 	 		 		
-	_	_	_			avy	-		-	-	avy	-			 -							1	 		
	Grading	Type		1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Hea	1) Light	2) Medium	3) Med. Heavy	4) Heavy	5) Ex. Heavy												
	Access	Control				0	- Carrier		1		-					-co4Wea									
-	Future		-01-00		unawa	1,2,4				-	1.2.4	7				-		 			 	-			
	Number		U)	T		4					4												D) y y y y y y y y		

2002 RURAL UTILITY COSTS FOR DESIGN CLASS 1 - 13

					· ·			, 2000.
	Code	2, 3, 5, 6 4, 7	1, 2, 3, 5, 6, 4, 7	1, 2, 3, 5, 6, 4, 7	2, 3, 5, 6 4, 7	2, 3, 5, 6 4, 7	2, 3, 5, 6 4, 7	₽ Base cost increased by 4.60 from 2000.
	5.1 Factor	117.3 176.0 234.6	140.8 211.1 281.5	152.5 227.6 305.0	176.0 262.8 351.9	222.9 333.1 445.7	246.3 368.3 492.7	t increased
Cost	Base	23.0 34.5 46.0	27.6 41.4 55.2	29.9 44.6 59.8	34.5 51.5 69.0	43.7 65.3 87.4	48.3 72.2 96.6	Base cos
	Imp. Type	R/W each side R/W one side New R/W	R/W each side R/W one side New R/W	RW each side RW one side New RW	R/W each side R/W one side New R/W	RW each side RW one side New RW	RW each side RW one side New RW	
	County Number	33, 38, 44, 60, 68	25, 27, 30, 52, 56, 67	26, 37, 62	51, 63, 69	10, 14, 32	55, 72	
		L						2000.
	Code	2,3,5,6	2, 3, 5, 6 4, 7	1 2,3,5,6 4,7	2,3,5,6 4,7	2, 3, 5, 6 4, 7	2, 3, 5, 6 4, 7	Base cost increased by 4.60 from 2000.
St	5.1 Factor	58.7 86.8 117.3	93.8 140.8 187.7	82.1 122.0 164.2	70.4 105.6 140.8	105.6 157.2 211.1	39.9 61.0 82.1	increased
Cost	Base	11.5 17.0 23.0	18.4 27.6 36.8	16.1 23.9 32.2	13.8 20.7 27.6	20.7 30.8 41.4	7.8 12.0 16.1	Base cost
	Imp. Type	RW each side RW one side New RW	RW each side RW one side New RW	R/W each side R/W one side New R/W	RW each side RW one side New RW	RW each side RW one side New RW	RW each side RW one side New RW	
	County Number	1, 3, 11, 39, 58, 77	2, 5, 7, 9, 16, 17, 23, 28 31, 45, 46, 48, 61, 64, 77	4, 8, 15, 20, 34 50, 57, 65, 71	6, 12, 18, 21, 22 29, 35, 40, 49, 53, 73	19, 24, 36, 42, 43 47, 54, 59, 66, 74, 75	13, 70	

Note: to determine utility cost- Multiply length in miles times cost per mile, add to RW Cost.

MUNICIPAL TYPE IMPROVEMENTS

08, 09)

Urban freeway estimated costs per mile are shown on the urban expressways sheet, page 16. The costs per mile shown are for the through lanes only. The cost of interchanges, frontage roads and cross streets must be calculated separately from the roadway additions sheet, page 17, and added to the mainline cost. Grade separation and interchange structures must also be calculated individually from the structures sheet, page 18.

To determine the cost per mile for a curbed section find the appropriate type of work code number for grading, drainage, base, surface and other on the municipal improvement code sheet, pages 13-14. Enter the work code cost form the Municipal Improvement Cost sheet, page 15, to obtain the cost per mile for each work type. Multiply cost per mile times length (item 7), times correction factor (item 48) for grading and drainage.

Multiply cost per mile times length (item 7), times correction factor (item 48), times improvement width (item 50) for base and surface.

. .

MUNICIPAL IMPROVEMENT CODES IMPROVEMENT TYPE 08, 09 Design Class 23 - 30

-		-	HONNOG
	GRADING		
Code	Requirement	Code	Requirement
c	No oradino	0	No drainage.
>		,	O the self-
-	Remove existing curbs and widen under 12'.	-	Curbs only.
	Demove existing ourbe and widen 19", 99"	2	Curbs and new minor storm drains.
7	Nellove chisting out 3 and wicel 12 fee.	1	
"	Remove existing curbs and widen over 22'.	က	Curbs and new major storm drains.
,		_	Outh and the to evieting eform drains system.
4	Widen existing open type to 48' standard curbed.	4	כתוחם מווח וש נס פעומווון פנסוון פושונים סל פנסווי
ĸ	Wilden existing onen type to 52' standard curbed.	ഹ	Expressway shoulders.
>	אווספון פצופווון או באווים באו	4	
9	Widen existing open type to 48' standard expressway.	þ	Number 1 With raised median.
1	William Control to the total of the control of the	47	Number 2 with raised median.
_	Widen existing open type to 72 statingth expressing.	- !	
α	New 48' or 52' standard curbed.	<u>ω</u>	Number 3 with raised median.

* If median is to be non-barrier type, add width to surface width (includes continuous left turn lanes).

AC ATTIC	SUKFACE	Code Requirement	No surfacing Widen from existing width to new width - high type. Widen from existing width to new width - intermediate type. Surface completely - high type. Surface completely - intermediate type.
	BASE	uirement	0 No base. 1 Widen from existing width. 2 Remove existing base and surface and replace base. 3 Nothing in place, all new base.

MUNICIPAL IMPROVEMENT CODES IMPROVEMENT TYPE 08, 09 Design Class 23 - 30

D) Requirement Major None 0	nd driveway nal lights. Major 0	Minor 0
A, B, A, B, C, A, B, C, D, C, C, D,	- 28 B C 8	- 2 4 9 <i>F</i> 6

MUNICIPAL Requirement Low No right-of-way required or no cost involved. Rural type area.		-
ant Jired		
No right-of-way required or no cost involved. 0 Rural type area. 1	Average	High
or no cost involved. 0 Rural type area. 1		
Rural type area.	0	0
	2	ო
Residential area.	ro	9
Business area. 7	œ	6

RIGHT-OF-WAY	RURAL	Cost per acre, average	No cost involved.	\$0 to \$400	400 to 800	800 to 1,200	1,200 to 1,600	1,600 to 2,000	2,000 to 3,000	3,000 to 4,000	Over 4,000
		Code	0	-	7	က	4	ц	9	7	8

REDO RURAL TABLE

MUNICIPAL IMPROVEMENT COST Improvement Type 08, 09 Design Class 23 - 30

WINGHTE OF WAY WELL						201.02			0.000	00000	000000			 		10 th of possession of	KW Dase Increased to 11.94.	7.0	141											
28	5 100 醫	27.0	AND IN	0.0	(1.8	179.5	359.0	628.3	628.3	1100.9	0.000	209.5	0300	ç		7 100 0	KW Da													
OTHER		0000	Dase	0.0	14.1	35.2	70.4	123.2	123.2	279.8	2000	52.8	0.001	- :	Other base increased to 3.20.	ã														
-Na	100		anno	0	-	N	ന	4 1	vo (0 1	- (0 0	57		se incres															
SURFACE	然。DIO 15 13 13 13 13 13 13 13 13 13 13 13 13 13		Koole Fisser Fisolog	0.0		72									Other ba															
	E 980	0.000	Factor	0.0	8.2	9.4	10.0								f width.															
BASE		1	Base	0	1.4	1.6	1.7								per foot of															
			Code	100000	-	2	n	Sec-184	AFRICA	None Ser	and a	nine.	100.00		per mile-															
L S C DRAINAGE S	216		Code Paser Neactors	0.00	20 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	270	2019			7777	0.0100 1777 1700		3	* Cost is in cost per mile-per foot of width.															
	2000	5.760	Factor	53.6	67.4	95.0	108.3	135.4	190.1	161.9	202.8	283.4	161.9	202.8	285.1	164.7	206.2	288.0	177.4	221.8	266.1	209.1	253,4	297.8	240.8	300.7	426.8	0.0	0.0	0.0
SING			Base	9.3	11.7	16.5	18.8	23.5	33.0	28.1	35.2	49.2	28.1	35.2	49.5	28.6	35.8	20.0	30.8	38.5	46.2	36.3	44.0	51.7	41.8	52.2	74.1	0.0	0.0	0.0
GRADING	1	Area	Type	6) Low	7) Average	8) High	6) Low	7) Average	8) High	6) Low	7) Average	8) High	6) Low	7) Average	8) High	6) Low	7) Average	8) High	e) Low	7) Average	8) High	6) Low	7) Average	8) High	6) Low	7) Average	8) High	6) Low	7) Average	8) High
	ı	Code			~			7			3			4			5			9			7			80			0	

URBAN EXPRESSWAYS*
Mainline Construction Only (FDC 20-22)
Includes 15% Administration, Engineering & Contingencies

_	-		-	-	-	-	-	-	-	-	-		-		-	_	
Total	Less	R/W	2,938.0	3,179.9	3,519.7	3,871.1		4,046.0	4,426.1	4,904.2	5,393.8		5,083.0	5,555.3	6,240.8	6,914.7	
	5.100	Factor	4,105.5	6,693.8	10,710.0	13,387.5	18,742.5	4,105.5	6,693.8	10,710.0	13,387.5	18,742.5	4,105.5	6,693.8	10,710.0	13,387.5	18,742.5
Utilities		Base	1,150.0	1,875.0	3,000.0	3,750.0 ;	5,250.0 i	1,150.0!	1,875.0	3,000.0	3,750.0	5,250.0	翼 1,150.0;	1,875.0 ;	3,000.0	3,750.0	5,250.0
ay &		Code	e i	e					c					9		8	
Right - Of - Way & Utilities	5,100	Factor	0.0	41.1	133.9	1,338.8	2,677.5	0.0	41.1	133.9	1,338.8	2,677.5	0.0	41.1	133.9	1,338.8	2,677.5
		Base	0.0	11.5	37.5	375.0	750.0	0.0	11.5	37.5	375.0	750.0	0.0	11.5	37.5	375.0	750.0
		Code	10.00										1800				
Sod & Sign	5,100	Factor	489.6	489.6	489.6	489.6		596.7	596.7	596.7	596.7		627.3	627.3	627.3	627.3	
Sod 8		Base	96.0	96.0	96.0	96,0		117.0 !	117.0	117.0	117.0		123.0	123.0	123.0	123.0	
Base & Surface	5.880	Factor	1,711.1	1,711.1	1,711.1	1,711.1		2,493.1	2,493.1	2,493.1	2,493.1		3,263,4	3,263,4	3,263,4	3.263.4	
Base		Base	291.0	291.0	291.0	291.0		424.0	424.0	424.0	424.0		555.0	555.0	555.0	555.0	
Grade & Drain	5.760	Factor	737.3	979.2	1.319.0	1.670.4		956.2	1.336.3	1.814.4	2,304.0		1.192.3	1.664.6	2.350.1	3.024.0	
Grad		Base	128.0	170.0	229.0	290.0		166.0	232.0	315.0	400.0		207.0	289.0	408.0	525.0	
Grade Type	;		6) Low	7) Median	8) High	9) Extra High		6) Low	7) Median	8) High	9) Extra Hinh		6) Low	7) Median	8) High	9) Extra Hinh	
Access	Control			Full					H.			,		II.			ı
Number Improvement Access	Tyne				08.09					08.09					80		
Number	Sane	}			4					œ	,				α	,	

^{*} Costs of interchanges, frontage roads, cross streets, grade separations and interchange structures must be calculated and added. See mainline addition sheet and structure cost sheet.

Note: Cost works off Future Design Class, not improvement type.

ROADWAY ADDITION TO MAINLINE URBAN EXPRESSWAYS Construction costs only, does not include r/w or utility relocation.

Additions	Improvement Type	Estimated Cost (in thousands)
Frontage Roads	13	2,500 per mile
Ramps	14	300 per mile
Cross Streets	15	Use Municipal Imp. Sheets
1/2 Diamond	17	000'9
Diamond (Minor)	16	8,000
Ramps (Hwy to Hwy)	20	5,000 per mile
Diamond (Major)	21	15,000
Urban Interchange	18	50,000
without collector roads		
Urban Interchange	19	000'09
with collector roads		
Includes A, E. & C.		

	ture
STRUCTURE COST	ost to construct a new struct

	Length (ft.) 2002 Cost per Foot	20 to 110	11 to 150	to 190	91 to 310	over 310
--	------------------------------------	-----------	-----------	--------	-----------	----------

This is an estimated cost, actual cost depends on design and materials.

DATE:

June 6, 2006

TO:

Files and Attendees

FROM:

Planning and Research Division

SUBJECT: US 81 Corridor Study, ODOT Internal Status Meeting Minutes

On Friday, May 26, 2006, a meeting was held to discuss the US 81 corridor study status. The meeting agenda is attached. In attendance were:

Bob Rose	ODOT Division VII	580-255-7586
Joe Khatib	ODOT Planning	405-521-3651
Eduardo Elder	ODOT Roadway	405-521-4848
Ronda Lindsay	ODOT Project Management	405-522-7603
Bob Rusch	ODOT Bridge	405-521-2606
Diane Abernathy	Benham	405-701-3167
Terry McFall	Benham	405-794-3531
Ron Weltzheimer	Benham	405-478-5353
Larry Wicks	Benham	918-492-1600

The following items were discussed and determined:

- 1. Discussion of ROW costs for 2 alignments south of Minco: Existing and Alternate (i.e., curve correction) Alignments
 - The total cost estimate for the Existing is approximately \$1 million less than the Alternate.
 - If the Existing alternate is selected, Buggy Creek bridge could be widened for less money than a new Buggy Creek bridge could be built on the Alternate Alignment.
 - In summary, Bob Rose requested that Benham present the Existing Alignment as the recommended alternate at the next public meetings, and explain that the Alternate was not selected due to its additional costs and the fact that it would take the bank.
- 2. Identified the following 12 construction segments and priorities (\$5-10 million per segment):
 - US 62 to 1320 CR (~3 miles); High Priority
 - 1320 CR to 1290 CR (~3 miles); Low Priority
 - 1290 CR to 1260 CR (~3 miles); Low Priority
 - 1260 CR to 1250 CR (~1 mile); Low Priority
 - 1250 CR to 1230 CR (~2 miles); Low Priority
 - 1230 CR to 1200 CR (3 miles); Low Priority
 - 1200 CR to South Street in Minco (beginning of existing 4-lane segment) (~2.5 miles); Medium Priority

- South Street to end of existing 4-lane segment north of Minco (~2 miles); Medium Priority
- 4-lane segment north of Minco to Canadian River Bridge; Medium Priority
- Canadian River Bridge, Medium Priority
- Canadian River Bridge to the Programmed Division IV project north of Union City;
 High Priority
- Programmed Division IV project, High Priority

3. Chickasha Bypass Issues:

- Final report will recommend that all ROW for the Chickasha Bypass be acquired as soon as
 possible to protect the alignment.
- ROW/utility costs will be presented in 2 segments, i.e., north and south of Norge Road.
- Construction costs will be presented for the entire Chickasha Bypass.
- Relocating utilities and construction of the bypass will be considered as Low Priority. The
 acquisition of ROW will be considered High Priority, with ROW acquisition starting on the north
 end.

4. Public Meeting Issues:

The next (and last) set of public meetings will briefly review the history of the corridor study, then present the Recommended Alternates. The construction segments in the Northern Segment and their priorities will be presented. Graphics of the Recommended Alternates and the segments will be presented. A table will be prepared for the meeting that provides information on each project length, improvement type, cost, and priority. The anticipated project schedule will be explained as follows:

- NEPA & Preliminary Engineering (2 3 years)
- ROW acquisition (4 years)
- Construction commences 8 10 years from now, at the earliest

5. Final Report

- The "matrix" will be a simple decision table, with no use of scoring.
- The concept of re-routing SH 37 will be briefly addressed in the report, with a note that the concept merits additional study in the future.
- Bob Rose requested that Benham conduct a full-blown utility cost evaluation for use in costing the construction segments.
- The construction costing approach will include the following:
 - The recently constructed Division IV project between I-40 and E1090 Country Road north of Union City will serve as example for pavement thicknesses.
 - 4-lane divided improvements will be estimated for construction of 2 new parallel lanes and reconstruction of the existing 2 lanes.
 - 4-lane undivided improvement in Minco will be estimated for mill, overlay, intersection improvement, and signals.
 - 4-lane undivided improvements (other than the Minco segment mentioned above) will be estimated for construction of 4 new lanes.

6. Wrap-Up

Bob Rose requested the costs for all "high priority" segments ASAP for programming purposes.



DATE:

August 22, 2006

TO:

Files and Attendees

FROM:

Planning and Research Division Engineer

SUBJECT: US 81 Corridor Study – ODOT Meeting Minutes

On Thursday, August 17, 2006, a meeting was held to prepare for the final set of public meetings for the US 81 Corridor Study project. In attendance were:

Diana Barlow	ODOT Relocation	521-2648
Kirk Goins	ODOT Roadway	521-2695
Jay Herbert	ODOT Relocation	521-2648
Joe Khatib	ODOT Planning	522-1410
Craig Moody	ODOT Planning	522-1465
Brenda Perry	ODOT Public Affairs	521-6006
Larry Reser	ODOT Survey	521-2621
Bob Rose	ODOT Division VII	580-255-7586
Bob Rusch	ODOT Bridge	521-2606
Dawn Sullivan	ODOT Planning	521-2927
Tim Tegeler	ODOT Roadway	521-2695
Diane Abernathy	Benham	701-3167
Terry McFall	Benham	794-3531
Ron Weltzheimer	Benham	478-5353
Larry Wicks	Benham	918-492-1600

The dates for the public meetings are:

- Thursday, 9/7/06, 6 − 8 pm, Grady County Fairgrounds Community Building, Chickasha, OK
- Tuesday, 9/19/06, 6 − 8 pm, Minco Public School Auditorium, Minco, OK

The group reviewed the draft public letters, addresses, notice, and meeting handouts for the public meetings. It was agreed that the public letters and meeting handouts should indicate that the public notice and meeting graphics will be posted on both the ODOT and Benham US 81 project websites. The meeting handouts should be modified to include a "What's Next?" section that discusses scheduling of the US 81 segments. It was agreed that a figure of the corridor will be included with the letters, and that comment sheets will be made available at the public meetings. The group was asked to forward any additional comments on the meeting documents by 8/22/06, so as to allow the letters to be mailed on 8/24/06.

The meeting graphics were reviewed. Footnotes indicating that construction costs were expressed in 2006\$ will be added to both the North Segment and the Chickasha Segment

figures. The priorities for the Chickasha Bypass will indicate that ROW acquisition is "High" priority, and utility relocation and construction are "Low" priority. Benham will modify the 2030 traffic volume graphic for the Chickasha Segment to note the remaining traffic volume on "old" US 81.

The estimated construction costs for Segment 1 of the North Segment were discussed, particularly the various options for phasing and construction of the US 81/US 62 interchange ramps and the grade separation at the Union Pacific Railroad crossing on US 81.

The utility cost terminology was discussed. It was agreed that the current term "Private" should be clarified to represent those utilities ODOT is responsible for relocating, while "Public" represents those utilities that other entities must relocate.

The final report will be submitted to ODOT on a CD (as well as hard copy), so ODOT can post the report on their website. Benham's US 81 project website will link to ODOT, until it terminates sometime in Spring 2007.



Final Public Meeting Recommended Alignments

US-81Grady and Canadian Counties

EC No. 899 J/C 21603(04)



August 2006

MEETING AGENDA US 81 CORRIDOR STUDY - ODOT PRE-MEETING AUGUST 17, 2006

- 1. Project Status Update
- 2. Proposed Public Meetings
 - Date, Time, Location:
 - Chickasha, Thursday, 09/07/06, 6:00 p.m. to 8:00 p.m.
 - Minco, Tuesday, 09/19/06, 6:00 p.m. to 8:00 p.m.
 - Letter and Mailing List (do we include basic figure of corridor?)
 - Public Notice
 - Meeting Handout
 - Comment Sheet or Not? ✓—
 - Graphics and Exhibits
- 3. Review of Minco Alignment
 - Existing vs. Alternate
 - Construction, ROW, and Utilities Cost Comparison
- 4. Review of Cost Estimates for Construction Segments, North Segment and Chickasha Bypass
- 5. Notice of Final Report Availability on Project Website
 - a. Proposed project schedule (final report by 1/1/07; website operated until 4/1/07?)

PRELIMINARY COST STUDY RECOMMENDATION OF ALTERNATES

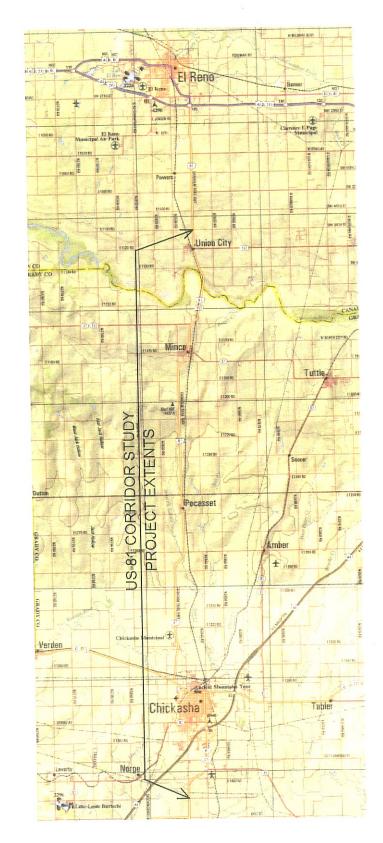
US-81 CORRIDOR STUDY

OKLAHOMA DEPARTMENT OF TRANSPORTATION THE BENHAM COMPANIES, LLC

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Type of Improvement

Existing 4 Lane Undivided

Project Length (miles)

Type of Improvement

Project Cost (\$ Million)

2.94

3.00 AA 14.03

Low

Low

CC BB

Add Median & 2 New Lanes, Reconstruct Existing Lanes Widen from Existing 2-Lane to 4-Lane Undivided Mill and Overlay Existing 4-Lane Undivided

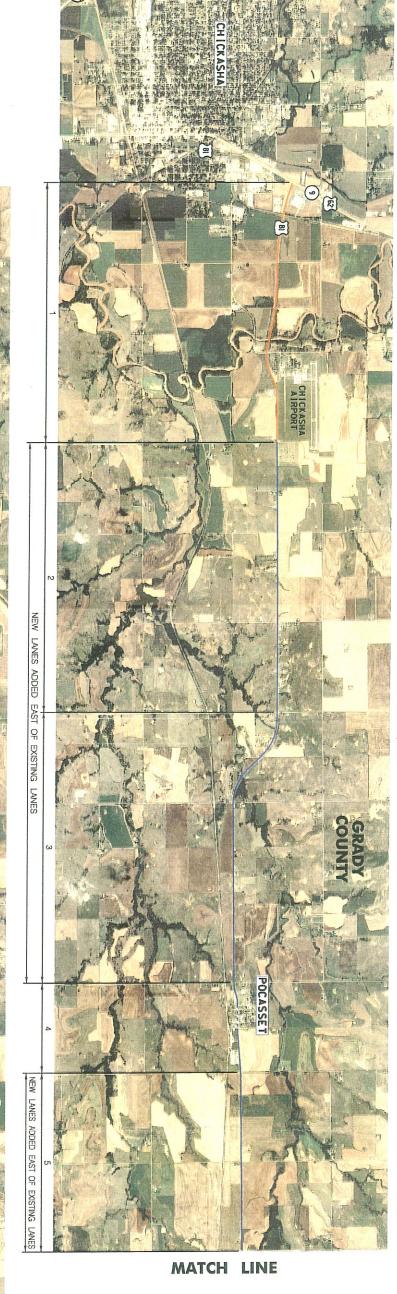
LEGEND MATCH LINE NEW LANES ADDED EAST OF EXISTING LANES Segment Identification MINCO MEDIUM PRIOR

NEW LANES ADDED EAST OF EXISTING

⊕N

Type of Improvement

CHICKASHA, OK - UNION CITY, OK



BB Widen from Existing 2-Lane to 4-Lane Undivided CC Mill and Overlay Existing 4-Lane Undivided Existing 4 Lane Undivided	END Add Median & 2 New Lanes Reconstruct Existing	NEW LANES ADDED EAST OF EXISTING LANES	MATCH LINE
Segment Identification 1 Project Length (miles) 2.94 Type of Improvement AA Project Cost (\$ Million) 26.38 Priority Group High	,	F EXISTING LANES	
2 3 4 5 6 3.00 3.17 1.00 2.00 3.00 AA AA BB /CC AA AA 14.03 12.97 3.19 7.75 10.76 Low Low Low Low	MEDIUM PRIORITY LOW PRIORITY	8 9 NEW LANES ADD	MINCO
7 8 9 10 11 2.50 1.20 2.30 0.57 2.36 AA /BB CC AA /BB AA AA /CC 11.43 2.83 11.61 6.89 9.50 Medium Medium Medium Medium High	RITY	9 10 11 11 NEW LANES ADDED EAST OF EXISTING LANES	COUNTY UNION CITY UNION CITY
12 3 2.50 C AA D 11.95 PROJECT PRIORITY MAP		NEW LANES ADDED EAST OF EXISTING LANES	

FINAL PUBLIC MEETING RECOMMENDED ALIGNMENTS

U.S. 81 CORRIDOR STUDY

OKLAHOMA DEPARTMENT OF TRANSPORTATION THE BENHAM COMPANIES, LLC

PROJECT STATUS:

DATA COLLECTION / ANALYSIS OF EXISTING DATA	100%
TRAFFIC ANALYSIS	100%
ENVIRONMENTAL CONSIDERATIONS	100%
MEETINGS / PUBLIC INVOLVEMENT Task Remaining: Final Public Meetings	80%
ALTERNATE STUDIES / FINAL REPORT Task Remaining: Final Report	75%



FINAL PUBLIC MEETING RECOMMENDED ALIGNMENTS

U.S. 81 CORRIDOR STUDY

OKLAHOMA DEPARTMENT OF TRANSPORTATION THE BENHAM COMPANIES, LLC

The focus of the US-81 Corridor Study is to evaluate existing U.S. 81 for improvement from Union City South to Chickasha including a possible Chickasha bypass. The study includes an inventory of existing conditions including traffic capacities, sufficiency rating and environmental conditions. A projection of future conditions concluding with a recommended alternate which is economical and has minimal environmental impacts is the purpose of this study.

FINAL PUBLIC MEETING

The project team will conduct two (2) public meetings at each of two stages during the project (4 meetings total). Appropriate locations will be selected throughout the project area. Public notice will consist of press releases and letters to elected and appointed local officials and key stakeholders. The first set of meetings will focus upon general characteristics of the U.S. 81 corridor, and preliminary alternatives under consideration. The second set of meetings will present tentative final recommended alternatives throughout the corridor. Exhibits will include alignments on aerial photographs, and appropriate handouts. After receipt of comments, summaries of the meetings will be prepared and included in the feasibility report.

FINAL REPORT

The study will be documented in report format. The final report will contain a refinement of data presented in previous submittals and also include final alternate recommendations with cost estimates. Alternates will be drawn on aerial photography utilizing the 1 inch=200 foot mosaics for by-pass areas only and 1 inch=1000 foot mosaics for the remainder of the corridor. Sketches will be provided of all new design and existing connections. Appropriate text and exhibits will document existing conditions, traffic data and analysis, estimated costs, and comparison of alternatives.

Final submittal will include bound copies:

- Summary Report 100 copies
- Final Report 25 copies
- Environmental Report 5 copies





Oklahoma Department of Transportation

September 7, 2006 Grady County Fairgrounds Community Building

Welcome to the US 81 Public Meeting!

This public meeting is to present the results of the Corridor Study to evaluate US 81 for improvement to four lanes from the south end of the existing reconstruction of US 81 just north of Union City to south of SH 19 in Chickasha. The Study also considered the need for bypasses in the communities of Union City, Minco, Pocasset, and Chickasha. The improvement alternates selected as a result of the Study will be presented tonight.

US 81 Corridor Study Purpose

The purpose of this Study was to:

- (1) evaluate existing conditions, including traffic capacities, roadway conditions, and environmental conditions;
- (2) develop recommendations for improvements along the corridor which will be economical and have minimal environmental impacts:
- (3) develop preliminary improvement construction costs and project requirements to aid in the programming of individual project segments; and
- (4) provide information which may be used in the detailed environmental and design studies that will be necessary prior to actual construction.

Public Meeting Purpose

- Present the environmental, traffic and roadway information considered in developing the study recommendations
- Present the improvement alternates selected as a result of the Study

what's Next?

Meeting Agenda

- 1. Welcome and Introductions
- 2. Project Background
- 3. Environmental Data and Review Process
- 4. Design Process
- 5. Final Corridor Study Report
- ROW, Utilities, and Construction Scheduling What's Next
- 7. Questions and Answers
- 8. Open Forum Session

Attachments

A graphic displaying the extent of the US 81 Corridor is attached as part of this handout. In addition, a comment sheet is attached for your convenience.



Add 2 websites



Oklahoma Department of Transportation

September 19, 2006 Minco Public School Auditorium

Welcome to the US 81 Public Meeting!

This public meeting is to present the results of the Corridor Study to evaluate US 81 for improvement to four lanes from the south end of the existing reconstruction of US 81 just north of Union City to south of SH 19 in Chickasha. The Study also considered the need for bypasses in the communities of Union City, Minco, Pocasset, and Chickasha. The improvement alternates selected as a result of the Study will be presented tonight.

US 81 Corridor Study Purpose

The purpose of this Study was to:

- (1) evaluate existing conditions, including traffic capacities, roadway conditions, and environmental conditions;
- (2) develop recommendations for improvements along the corridor which will be economical and have minimal environmental impacts;
- (3) develop preliminary improvement construction costs and project requirements to aid in the programming of individual project segments; and
- (4) provide information which may be used in the detailed environmental and design studies that will be necessary prior to actual construction.

Public Meeting Purpose

- Present the environmental, traffic and roadway information considered in developing the study recommendations
- Present the improvement alternates selected as a result of the Study

Meeting Agenda

- 1. Welcome and Introductions
- 2. Project Background
- 3. Environmental Data and Review Process
- 4. Design Process
- 5. Final Corridor Study Report
- 6. ROW, Utilities, and Construction Scheduling
- 7. Questions and Answers
- 8. Open Forum Session

Attachments

A graphic displaying the extent of the US 81 Corridor is attached as part of this handout. In addition, a comment sheet is attached for your convenience.



NOTICE OF PUBLIC MEETING

The Oklahoma Department of Transportation (ODOT) invites you to attend a public meeting at which the results of a **Corridor Study to evaluate US 81 for improvement to four lanes** from the south end of the existing reconstruction of US 81 just north of Union City to south of SH 19 in Chickasha will be presented. The Study also considered the need for bypasses in the communities of Union City, Minco, Pocasset, and Chickasha. The improvement alternates which have been selected as a result of the Study will be presented.

ODOT has scheduled public meetings in Minco and Chickasha. The Chickasha meeting is scheduled from **6:00 p.m. to 8:00 p.m, Thursday, September 7, 2006**, at the Grady County Fairgrounds Community Building, in Chickasha, OK. The Minco meeting is scheduled from **6:00 p.m. to 8:00 p.m, Tuesday, September 19, 2006**, at the Minco Public Schools Auditorium, Minco, OK. Representatives from ODOT and The Benham Companies, the engineering firm retained by ODOT to prepare the Corridor Study and documentation, will be on hand to present information regarding the selected improvement alternates.

Questions prior to the meeting may be directed to Mr. Joe Khatib, ODOT, at (405)522-1410, <u>jkhatib@odot.org</u>, Mrs. Diane Abernathy, Benham, at (405) 701-3167, diane.abernathy@benham.com, or by writing the Planning & Research Division, 200 Northeast 21st Street, Oklahoma City, Oklahoma 73105.

The Oklahoma Department of Transportation strives to accommodate the needs of all citizens, including those who may be disabled. If you would like to attend this meeting but find it difficult due to disability, architectural barrier, or other special needs, or if you require a sign-language interpreter, please contact Mr. Craig Moody at (405) 522-1465 or in writing at the Oklahoma Department of Transportation, 200 Northeast 21st Street, Room 2A2, Oklahoma City, Oklahoma 73105, no later than September 1, 2006.

OKLAHOMA DEPARTMENT OF TRANSPORTATION PLEASE TELL YOUR FRIENDS AND NEIGHBORS

August , 2006

James Allard Field Office Manager Bureau of Reclamation, Oklahoma City Office 4149 Highline Blvd, Ste. 200

Oklahoma City, OK 73108-2097

Dear Mr. Allard:

The Oklahoma Department of Transportation (ODOT) has conducted a Study of the US 81 corridor to evaluate its improvement to four lanes from just north of Union City to south of SH 19 in Chickasha. The Study also considered the need for bypasses in the communities of Union City, Minco, Pocasset, and Chickasha. Two (2) public meetings have been scheduled to present the improvement alternates which have been selected as a result of the Study. The content of the meetings will be the same; the meetings will be held at different locations for the public's convenience. The first meeting will be held from 6:00 p.m. to 8:00 p.m., Thursday, September 7, 2006 at the Grady County Fairgrounds Community Building, Chickasha, Oklahoma. The second meeting will be held from 6:00 p.m. to 8:00 p.m. on Tuesday, September 19, 2006 at the Minco Public Schools Auditorium. Your participation is encouraged.

The meeting is further described in the enclosed public meeting notice. The local and surrounding media will be notified with a press release. In addition, the public meeting notice will be posted on the US 81 project website, as follows: Add ODUT

the andOROT website

http://us81.benham.com

Username: BENHAM/US81

Password:

Address:

ODOT81

Should you have any questions, please contact Mr. Joe Khatib, ODOT, at (405) 522-1410, Abernathy (405)701-3167, Benham, ikhatib@odot.org Diane at or diane.abernathy@benham.com.

Sincerely,

Dawn R. Sullivan, P.E. Planning & Research Division Engineer

DRS/jda

Attachments:

Public Meeting Notice

Field Office Manager James Allard Bureau of Reclamation, C'homa City Office Highline Blvd, Ste. 200 Okiahoma City, OK 73108-2097

Planning, Environmental & Regulatory (PER) Division Chief Larry Hogue Tulsa District Corps of Engineers 1645 S. 101 E. Avenue Tulsa, OK 74128-4629

State Conservationist M. Darrel Dominick The Natural Resources Conservation Service 100 USDA, Suite 203 Stillwater, OK 74074-2655

Executive Director Bob Blackburn
Oklahoma Historical Society
2101 North Lincoln Blvd, Historical Bldg.
Oklahoma City, OK 73105-4915

Executive Director Mike Thralls
Oklahoma Conservation Commission
2800 North Lincoln Blvd, Ste 160
Ct-lahoma City, OK 73105

Chairman Robert Tabor Cheyenne-Arapaho Tribe P.O. Box 38 Concho, OK 73022

President Lindel Pettigrew Chickasha Bank & Trust 122 Maple Lane Chickasha, OK 73018

Mike Lennier Grady County Commissioner District 2 1328 County Road 1350 Chickasha, OK 73018

Helen Garrison, CPA 2802 County Club Drive Chickasha, OK 73023

Hays
Hays & Gordon
228 Chickasha Avenue
3rd Floor
Chickasha, OK 73018

Chief Rob D. Lawrence USEPA (6EN-XP) Compliance Assurance & Enforcement 1445 Ross Avenue Dallas, TX 75202-2733

Director Dan Deerlnwater Bureau of Indian Affairs Southern Plains Regional Office P.O. Box 368, WCD Office Complex Anadarko, OK 73005

Larry Fiddler, Director or Michael Schmidt, Deputy Director OCC Oil & Gas Conservation Division Jim Thorpe Building 2101 North Lincoln Blvd Oklahoma City, OK 73105

Director Greg Duffy Department of Wildlife Conservation 1807 North Lincoln Blvd P.O. Box 53465 Oklahoma City, OK 73152-8804

Director Charles J. Mankin Oklahoma Geological Survey 100 East Boyd, Room N-131 Norman, OK 73019-0628

Governor Bill Anoatubby Chickasaw Nation P.O. Box 1548 Ada, OK 74821

Joseph Young Chickasha Chamber of Commerce 111 North 5th Street Chickasha, OK 73018

Paul Powell Chickasha Vice-Mayor 117 N. 4th Street Chickasha, OK 73018

Mike Coponiti USAO 2712 County Street 2780 Chickasha, OK 73018

John Mosley Century 21/Mosley Real Estate P.O. Box 2100 Chickasha, OK 73023 Regulatory Branch Chief David Manning Tulsa District Corps of Engineers Environmental Analysis Section 1645 S. 101 E. Avenue Tulsa, OK 74128-4628

Field Supervisor (ES) Jerry Brabander Attn: Ken Frazier U.S. Fish & Wildlife Service P.O. Box 1306 Albuquerque, NM 87103

Environmental Review Coordinator Margaret M. Graham D.E.Q. - Customer Assistance Program P.O. Box 1677 Oklahoma City, OK 73101-1677

Ken Morris Oklahoma Water Resources Board 3800 North Classen Oklahoma City, OK 73118

Robert L. Brooks Oklahoma Archaeological Survey University of Oklahoma 111 East Chesapeake, Bldg 134 Norman, OK 73019-0575

President Gary McAdams Wichita & Affiliated Tribes P.O. Box 729 Anadarko, OK 73005

Greg Elliott Standley Systems P.O. Box 460 Chickasha, OK 73023

George Plummer KWCO Radio 500 Country Club Chickasha, OK 73023

George Tiner Canadian Valley Technical Center 1401 Michigan Avenue Chickasha, OK 73018

Mike Day Michael Day Insurance 124 N. 5th Street Chickasha, OK 73018 Steve LaForge
LaForge Properties
S. 4th Street
L. Jasha, OK 73018

Chris Johnson First National Bank & Trust P.O. Box 271 Winco, OK 73045

Mike Nunamaker Grady Memorial Hospital 2220 W. Iowa Chickasha, OK 73018

Hubert Davis 406 Hatcher Drive Minco, OK 73059

Robert Reaka P.O. Box 485 Minco, OK 73059-0485

Bob Bratcher Dairy Boy Drive In 1014 Carolyn Way Minco, OK 73059-9470

Alva Kirkegard 801 SW Burt Minco, OK 73059

Lee Carroll 309 SW 8th Minco, OK 73059

Roy Koerner 900 State Highway 152 Minco, OK 73059

Grant A. Swofford Sooner Easy Shop P.O. Box 311 Minco, OK 73059 Mike Brice City of Chickasha 117 N. 4th Street Chickasha, OK 73018

Keith Lindsey Minco Planning Commission 306 McComas Drive Minco, OK 73059

Johhny Verser 1500 NE Mission Road Minco, OK 73059

Steve Boswell 1013 SW Maple Drive Minco, OK 73059

Mary Lou Mitchell Mary Lou's Eagles Nest Café P.O. Box 359 Minco, OK 73059-0359

Laramie Tallent 108 N. 5th Minco, OK 73059

LaVerne Hines P.O. Box 523 Minco, OK 73059-0523

Larry Fitzgerald 213 County Street 2790 Minco, OK 73059

Robert Gray 928 SW Burt Minco, OK 73059

Elmer R. Johnson P.O. Box 174 Minco, OK 73059 Henry Ross Ross Home Care 301 S. 2nd Chickasha, OK 73018

Jim Ross Minco School Board 1309 SW 3rd Minco, OK 73059

Barry and Susan Hollandsworth 211 SW Witchita Street Minco, OK 73059

Randy Gregory P.O. Box 159 Minco, OK 73059

Harold Ratterman P.O. Box A Minco, OK 73059-0020

Roy and Marilyn Moss 6611 NW 11th Street Oklahoma City, OK 73127

Debi Keeble P.O. Box 221 Minco, OK 73059-0221

Gail Bomgardner 502 NW 3rd Street Minco, OK 73059

John H. Swofford Sooner Easy Shop P.O. Drawer H Minco, OK 73059

Shelby Shipman Original Dimensions Drafting 883 County Road 1280 Amber, OK 73004 Shirley Oaks 30x 514 3, OK 73059 Nila Michalicka 19715 Highway 152 Union City, OK 73090 Tad Kite TK Cattle Co. 1290 Highway 81 Pocasset, OK 73079

Roger Norvell 518 N. Main Jnion City, OK 73090 Terry and Rena Challis 413 NW Pontotoc Minco, OK 73059 Eldon R. Ventris 1354 SW 3rd Street Minco, OK 73059

Bill Sheets 423 S. Main Street Pocasset, OK 73079 John Hacker Minco Auto Supply 201 Northwest Main Street Minco, OK 73059 Verna Overton Land Lady Realty Box 528 Minco, OK 73059

Rufus and Peggy McMahan Box 1002 Chickasha, OK 73018 Harold Mason Box 527 Minco, OK 73059 Joe McComas Box 489 Minco, Ok 73059

Audie Ruthardt Box 38 Minco, OK 73059 Juanita Handke 201 SW Wichita Street Minco, OK 73059 Jay Garrett 405 NE Cemetery Road Minco, OK 73059

JD and Myrna Crow 212 SW South Street Vinco, OK 73059 Nick and Inga Sprowls 2002 NE Cemetery Road Minco, OK 73059 David Sprowls 2002 NE Cemetery Road Minco, OK 73059

Virginia Hayes Box 624 Minco, OK 73059 Dave McGraw 1619 N. Cemetery Road Minco, OK 73059 Jeremy Brown 1054 County Road 1240 Pocasset, OK 73079

Gene and Sue Turner Grady County Rural Water District #1 400 East Cardinal Street Pocasset, OK 73079

Bennie and Jean Douglas Box 67 Minco, OK 73059 Dara Ross Minco Hospital Authority 400 NW 5th Street Minco, OK 73059

Richard Dowdle 240 Adams Circle Pocasset, OK 73079 Joe and Janet Balke 110 Northwest 2 Minco, OK 73059 Ed Schutten 615 NW North Street Minco, Ok 73059

Larry Maples 3ox 13 Union City, OK 73090 Larry Keith Horn Minco City Council 302 Hatcher Drive Minco, OK 73059

Steve Eubank 840 County Road 1290 Chickasha, OK 73018 Leo Radtke Rt 1 Box 119 City, OK 73090

Shon Riley 326 South Main Pocasset, OK 73079

The Honorable Susan Winchester P.O. Box 2162 Chickasha, OK 73023

Don Young 5204 South Mustang Road Mustang, OK 73064

The Honorable Doug Denard Mayor of Minco P.O. Box 512 Minco, OK 73059

City Manager Larry Shelton City of Chickasha 117 North 4th Street Chickasha, OK 73018

The Honorable Phil Richardson Rural Route 1, Box 91A Minco, OK 73059

Eric and Sheri Jensen 935 SW 3rd Minco, OK 73054

The Honorable T.J. McCullough Mayor of Union City P.O. Box 36 Union City, OK 73090

City of Union City Board Member P.O. Box 36 Union City, OK 73090 Rural Specialist Larry Harrington Cameron University Room 636 South Shepler Tower Lawton, OK 73505

Deputy Director Tim Stewart Oklahoma Turnpike Authority 3500 Martin Luther King Avenue Oklahoma City, OK 73136-0357

The Honorable Ron Justice The Senate of Oklahoma 2300 North Lincoln Boulevard Room 533 Oklahoma City, OK 73105

Roy Testerman Rural Route 2, Box 29 Minco, OK 73059

The Honorable Christie Rainey Mayor of Pocasset P.O. Box 164 Pocasset, OK 73079

Executive Director Marilyn Feaver Chickasha Chamber of Commerce 221 West Chickasha Avenue Chickasha, OK 73018

Bob Langmacher P.O. Box 453 Minco, OK 73059

President Patrick Brooks
The First National Bank & Trust Co.
P.O. Drawer 1130
302 Chickasha Ave
Chickasha, OK 73023

Tracy Pappe Vice-Mayor of Union City P.O. Box 36 Union City, OK 73090

Cecelia Kennedy City of Union City Board Member P.O. Box 36 Union City, OK 73090 Executive Director Blaine H. Smith, Jr. Association of South Central OK Governments P.O. Box 1647 802 Main Street Duncan, OK 73534

The Honorable Susan Winchester House of Representatives 2300 North Lincoln Boulevard Room 539 Oklahoma City, OK 73105

The Honorable Ron Justice 2209 County Street 2880 Chickasha, OK 73018

City Clerk Gina Dickerson City of Union City P.O. Box 36 Union City, OK 73090

The Honorable Jim Parker Mayor of Chickasha 117 North 4th Street Chickasha, OK 73018

The Honorable Phil Richardson House of Representatives 2300 North Lincoln Boulevard Room 537-B Oklahoma City, OK 73105

Tim Anderson 204 SW Burt Minco, OK 73059

Bill Ocker 707 SW 10th Minco, OK 73059

Joe Bosler City of Union City Water Support P.O. Box 36 Union City, OK 73090

Janice Monroe City of Union City Board Member P.O. Box 36 Union City, OK 73090 Chairman
Board of Grady County Commissioners
Grady County Courthouse
Vest Choctaw
C....ckasha, OK 73018

Julie Pendergraph, CRS, GRI 1st Choice Realty in Oklahoma, LLC 25 East Carl Albert Parkway #A McAlester, OK 74501

Board Member Janice Monroe City of Union City P.O. Box 36 Union City, OK 73090

The Honorable Don Barrington The Senate of Oklahoma 2300 North Lincoln Boulevard, Room 412A Oklahoma City, OK 73105

The Honorable Gilmer Capps 820 East 11th Street Snyder, OK 73566

Mike and Melinda Morrison Morrison Propane P.O. Box 181 Minco, OK 73059

Larry and Nancy Malcom 602 W Main Minco, OK 73059

James Smith P.O. Box 5 Union City, OK 73090

Peggy Hendrix BBQ Barn 109 SW Wichita Street Minco, OK 73059

Kevin McComas 530 County Road 1220 Vinco, OK 73059 Chairman
Board of Canadian County
Commissioners
Canadian County Courthouse
201 North Choctaw
El Reno, OK 73036

The Honorable Daisy Lawler The Senate of Oklahoma 2300 North Lincoln Boulevard, Room 425 Oklahoma City, OK 73105

James Inhofe United States Senate Washington, DC 20510-3603

The Honorable Don Barrington 4605 NE Highlander Circle Lawton, OK 73507

The Honorable Joe Dorman The Senate of Oklahoma 2300 North Lincoln Boulevard, Room 500 Oklahoma City, OK 73105

Galen and Malinda Morrison Morrison Propane 813 S. Hwy 81 Minco, OK 73059

Randy and Donna Jackson Jackson Services 1057 SW Hwy 81 Minco, OK 73059

William Faulkner Minco Millennium P.O. Box 470 Minco, OK 73059

Dallas Davis 410 NW Main Street Minco, OK 73059

Truman Hamlett 1617 County Street 2830 Amber, OK 73004 Division Administrator Gary Corino Federal Highway Administration 300 North Meridian Suite 105-S Oklahoma City, OK 73107

The Honorable Daisy Lawler Route 1, Box 91 Comanche, OK 73529

Tom Cole United States House of Representatives Washington, DC 20515

The Honorable Gilmer Capps The Senate of Oklahoma 2300 North Lincoln Boulevard, Room 424A Oklahoma City, OK 73105

The Honorable Joe Dorman P.O. Box 559 Rush Springs, OK 73082

Jerry and Deana Walje 3406 SW Clayton Road Minco, OK 73059

Jim Rice 871 County Road 1170 Minco, OK 73059

J.W. Barber 417 County Road 1140 Minco, OK 73059

Johnny Verser Verser Welding Service P.O. Box 195 Minco, OK 73059

Geoff Atwood Rt. 2 Box 63A Minco, OK 73059 Kenneth A. Morris P.O. Box 510 Minco, OK 73059 Jerry Hines 617 NW 3rd Street Minco, OK 73059

Richard Brownen Box 428 Minco, OK 73059 Bobbie Sue Tallent Box 112 Minco, OK 73059 Nabeel Abusadah FHWA 300 N. Meridian, #105 S Oklahoma City, OK 73107

Ronnie Kessler 892 County Road 1280 Amber, OK 73004-4906 Melvin Verser 1007 SW Carolyn Way Minco, OK 73059 Keith McMullen 217 SW 10th Minco, OK 73059

Bruce Baade Oklahoma Folding Carton 124 West Main Minco, OK 73059

Frank Bond 607 NW North Street Minco, OK 73059 Glenn Carrell 804 SW South Street Minco, OK 73059

Jessica Dempsey 20270 SW 59th EIReno, OK 73030

Garry Hinrichs Rt. 4 Box 479 Tuttle, OK 73089 Ricky Anthony Anthony Backhoe 1288 SW 3rd Minco, OK 73059

Clarence Barr 804 Hwy 81 Minco, OK 73059 Gerald Coleman 1748 Hwy 81 Amber, OK 73004 Donald and Jan McDaniel P.O. Box 365 Minco, OK 73059

Roland and Patsy Harrison P.O. Box 233 Minco, OK 73059 Susan Robinson Red Bud Cottage P.O. Box 385 Minco, OK 73059

Cleo Smith 1512 NE Mission Road Minco, OK 73059

David Dacus P.O. Box 309 Minco, OK 73059 Allen Miller 910 NE Cemetary Road Minco, OK 73059 Ernest McMullen 3455 SW Clayton Road Minco, OK 73059

B. Hodges Box 225 Minco, OK 73059 Imagene Clark 1987 Hwy 81 Chickasha, OK 73018 Shirley Howard 1613 County Street 2830 Amber, OK 73004

Delvin Albers Rt. 2 Box 226 Minco, OK 73059 Keith and Terri Streeter P.O. Box 371 Mustang, OK 73064 Lori Hendrix 109 SW Wichita Street Minco, OK 73059 Larry Hendrix 100 SW Wichita Street I, OK 73059 Reed Maples, Jr. 20485 SW 15th Union City, OK 73090 Jimmy Mitchell P.O. Box 359 Minco, OK 73059

Brent Barr 816 Highway 81 Minco, OK 73059 Russell Streater P.O. Box 371 Mustang, OK 73064 William Cruzier Oklahoma Motor Works P.O. Box 222 Union City, OK 73090

Lindy Beck Chickasha Towing 2607 Lakewood Drive Chickasha, OK 73018 Greg Shoemaker Chickasha Towing 2607 Lakewood Drive Chickasha, OK 73018

Raymond Goater 1983 Highway 81 Chickasha, OK 73018

Bo Ellis Chickasaw Nation P.O. Box 788 Ada, OK 74821

Ola Edwards 1347 Highway 81 Pocasset, OK 73079 Cynthia Thorsen 304 E. Europe Drive Midwest City, OK 73130

Wade Steelman 410 Chickasha Avenue Chickasha, OK 73018 Doug Phelps 2619 Fox Drive Tuttle, OK 73089 Marvin Koerner 659 County Road 1220 Pocasset, OK 73079

Darrel and Jeannie Johnston 3478 State Highway 92 Chickasha, OK 73018 Dean and Linda Griffith 1612 Highway 81 Amber, OK 73004 David Perryman 689 County Road 1365 Chickasha, OK 73018

Allen Ryan USACE 1645 S. 101st East Avenue Tulsa, OK 74128

Dick McCalla 1782 County Road 1330 Chickasha, OK 73018 Albert Lagaly 1001 County Road 1260 Pocasset, OK 73079

Leon Jensen 2510 Lakewood Chickasha, OK 73018 Clarence G. Thorsen 872 County Road 140 Chickasha, OK 73018 Connie Allbritton 1638 Highway 81 Amber, OK 73004

Jimmy Johnson Johnson's Wreckers 307 Christopher Chickasha, OK 73018

Charlie Burrus 201 Saint James Place Chickasha, OK 73018 Llyod N. Thorsen, Jr. 901 Christine Midwest City, OK 73130

Ken Singleton 1710 Louisiana Chickasha, OK 73018 Keith and Tracy Caraway 734 County Road 1330 Chickasha, OK 73018 Matthew Mollman 500 W. Country Club Road Chickasha, OK 73018 Mark Martin 2¹⁸ Chickasha Avenue :asha, OK 73018 Barry and Donna Thomas 2900 W. Idaho Chickasha, OK 73018 Tom and Joan Harwell 8 Cottonwood Drive Chickasha, OK 73018-2114

James Harmon 3404 S. 24th Chickasha, OK 73018 William A. Graves 416 East Quail Road Chickasha, OK 73018 Victor Wesson 3810 Hickory Stick Chickasha, OK 73018

J.E. Fredrickson 39 Village Drive Chickasha, OK 73018 John Carroll B&M Oil 118 Ruskin Chickasha, OK 73018 Darrell Mollett Shoot the Moon Gifts 426 W Chockew Chickasha, OK 73018

Howard Carpenter 111 Minnesota Avenue Chickasha, OK 73018 Kirk Spurlin 853 County Road 1320 Chickasha, OK 73018 Jason Clarke 3016 W. Montana Chickasha, OK 73018

Amanda Thorsen 1410 County Street 2850 Pocasset, OK 73079 Llyod N. Thornsen, III 1410 County Street 2859 Pocasset, OK 73079 Patricia Gutierrez 1712 Cliffside Court Norman, OK 73072

Marshall Settle P.O. Box 1245 Chickasha, OK 73018

Ronald & Debra Weiss 854 County Road 1315 Chickasha, OK 73018 Gary Daniel 1361 County Street 2850 Pocasset, OK 73079

Wayne Leu 853 County Road 1315 Chickasha, OK 73018 Michael Ersland 1727 Grand Avenue Chickasha, OK 73018 Windell Shockey 1256 Highway 62 Chickasha, OK 73018

Nickie Riley 1688 Highway 81 Amber, OK 73004

Norman Fritz 4225 S. 4th Street Chickasha, OK 73018

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

SEGMENT 7 COMPARISON - ULTIMATE 4 LANE

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

S 81: Sta. 897+35.36- Sta. 1029+17.41							
ength = 2.50 miles							
Item	Quantity	Units	Unit Cost	5	ub-total		Total
URFACING			(\$)				
Divided 4-Lane							
2" Type S4 Asph. Conc. (PG 76-28 OK)	6,430	ton	60	\$	385,800		
3" Type S3 Asph. Conc. (PG 76-28 OK)	9,745	ton	56	\$	545,720		
7" Type S2 Asph. Conc. (PG 64-22 OK)	23,220	ton	53	\$	1,230,660		
Tack Coat	8,770	Gal	1.75	\$	15,348		
Prime Coat	9,920	Gal	2.25	\$	22,320		
8" Lime Stabilized Subgrade							
Lime	1,200	ton	135	\$	162,000		
Lime Stabilized Subgrade	66,090	SY	2.25	\$	148,703		
				,		\$	2,510,55
Undivided 4-Lane							
2" Type S4 Asph. Conc. (PG 76-28 OK)	3,850	ton	60	\$	231,000		
3" Type S3 Asph. Conc. (PG 76-28 OK)	5,780	ton	56	\$	323,680		12
7" Type S2 Asph. Conc. (PG 64-22 OK)	14,970	ton	53	\$	793,410		
Tack Coat		Gal	1.75	\$	9,363		
Prime Coat	6,165	Gal	2.25	\$	13,871		
8" Lime Stabilized Subgrade							
Lime	745	ton	135	\$	100,575		
Lime Stabilized Subgrade	41,035	SY	2.25	\$	92,329		
2'-8" Curb & Gutter (8" Barrier)		LF	22	\$	283,470		
EARTHWORK Excavation Borrow		CY	(\$) 5 6	\$	462,700		
					L	\$	462,70
The first of the f	4	1	(6)	7			
BRIDGE	1	ļ	(\$)	-	336,000		
Bridge Box near Sta. 955+30		SF_	80	\$	528,000		
Bridge Box near Sta. 958+60		SF	80	\$	558,125		
Buggy Creek	5,875	SF	95	13	556,125	\$	1,422,1
)	Ф	1,422,1
DRAINAGE	T	T	(\$)				
DRAINAGE: Pipe (24" or smaller		LF	55	\$	60,060		
Pipe (30" or larger		LF	80	\$	516,320		
RCB (24 SF or smaller		LF	300	\$	150,000	1	
RCB (24 SF to Strialle)		LF	475	\$	142,500	1	
RCB (30 SF to 64 SF RCB (70 SF or larger		LF	600	\$		1	
Closed System (inlets, manholes, etc.	/	LSUM	73,500	\$	73,500		
Closed System (Inlets, mannoles, etc.	11 1	LOUN	70,000	1 4	70,000	\$	942,3
MISCELLANEOUS			(\$)			_	
% of Surfacing, Earthwork, Bridge, and Drainage Cost	ts 10%	%	7,185,45	3 \$	718,545		
70 Of Surfacing, Earthwork, Druge, and Drainage Sost						\$	718,
				_			
CONTINGENCY			(\$)	-	115555	1	
% of above Item Cost	ts 15%	%	7,903,99	8 \$	1,185,600	1.	1.15-
	and the second					\$	1,185,
		,				-	9,089,
						\$	0.000 5

Divided 4-lane roadway is proposed between E 1200 Road and Buggy Creek (Sta. 897+35.36 - Sta. 965+00), a length of 1.28 miles. Undivided 4-lane roadway is proposed between Buggy Creek and South Street in Minco (Sta. 965+00 - Sta. 1029+17.41), a length of 1.22 miles.

ULTIMATE 4 LANE

Segment 7 Alternate Alignment - E 1200 Road to South Street in Minco US 81: Sta. 897+35.36 - Sta. 931+69.85; Sta. 9+02.71 - Sta. 100+58.94; Sta. 1028+82.19 - Sta. 1029+17.41 Length = 2.39 miles Total Quantity Units Unit Cost Sub-total Item (\$) SURFACING Divided 4-Lane 451,800 60 \$ 2" Type S4 Asph. Conc. (PG 76-28 OK) 7,530 ton 639,240 56 \$ 3" Type S3 Asph. Conc. (PG 76-28 OK) ton 11,415 53 \$ 1,442,130 7" Type S2 Asph. Conc. (PG 64-22 OK) 27,210 ton 1.75 \$ 17,981 10,275 Gal Tack Coat 2.25 26,156 \$ Gal 11,625 Prime Coat 8" Lime Stabilized Subgrade 189,675 1,405 135 \$ ton Lime 174,251 2.25 \$ Lime Stabilized Subgrade 77,445 SY 2,941,234 Undivided 4-Lane 168,600 2.810 ton 60 \$ 2" Type S4 Asph. Conc. (PG 76-28 OK) 56 \$ 236,040 3" Type S3 Asph. Conc. (PG 76-28 OK) 4,215 ton 579,025 53 \$ 7" Type S2 Asph. Conc. (PG 64-22 OK) 10,925 ton Gal 1.75 \$ 6,834 Tack Coat 3,905 10,114 \$ Gal 2.25 4,495 Prime Coat 8" Lime Stabilized Subgrade 73,575 \$ 135 545 ton Lime 67,365 2.25 \$ SY 29,940 Lime Stabilized Subgrade 206,800 IF 22 \$ 9,400 2'-8" Curb & Gutter (8" Barrier) 1,348,353 (\$) EARTHWORK 584,250 \$ Excavation 116,850 CY 5 CY 6 \$ Borrow 584,250 (\$) BRIDGE \$ 336,000 SF 80 Bridge Box near Sta. 955+30 4,200 528,000 SF 80 \$ 6.600 Bridge Box near Sta. 958+60 558,125 95 \$ SF 5,875 Buggy Creek 1,422,125 (\$) DRAINAGE 60,060 LF 55 \$ 1,092 Pipe (24" or smaller) \$ 516,320 Pipe (30" or larger) 80 6,454 LF 150,000 300 \$ LF RCB (24 SF or smaller) 500 142,500 475 \$ 300 LF RCB (30 SF to 64 SF) LF 600 \$ 0 RCB (70 SF or larger) 73,500 LSUM 73,500 \$ 1 Closed System (inlets, manholes, etc.) 942,380 5 (\$) MISCELLANEOUS 7,238,341 \$ 723,834 % of Surfacing, Earthwork, Bridge, and Drainage Costs 10% % 723,834 (\$) CONTINGENCY 7,962,175 \$ 1,194,326 15% % of above Item Costs 1,194,326 \$ \$ 9,156,502

Equation: Sta. 931+69.85 Back = Sta. 9+02.71 Ahead

Equation: Sta. 100+58.94 Back = Sta. 1028+82.19 Ahead

Divided 4-lane roadway is proposed between E 1200 Road and north of Buggy Creek (Sta. 897+35.36 - Sta. 54+00), a length of 1.50 miles. Undivided 4-lane roadway is proposed between north of Buggy Creek and South Street in Minco (Sta. 54+00 - Sta. 1029+17.41), a length of 0.89 miles.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

	RIGHT-OF-WAY														
Segment	Approximate Extents	Quantity	Units	Unit Cost		Sub-total		Total							
beginent				(\$)											
1	US 62 to E 1320 Road	1	LSUM	690,720	\$	690,720									
2	E 1320 Road to E 1290 Road		LSUM	1,708,320	\$	1,708,320									
3	E 1290 Road to E 1260 Road		LSUM	423,840	\$	423,840									
4	Pocasset	1	LSUM	103,920	\$	103,920									
5	E 1250 Road to E 1230 Road	1	LSUM	455,400	\$	455,400									
6	E 1230 Road to E 1200 Road	1	LSUM	289,800	\$	289,800									
7	E 1200 Road to South Street in Minco		LSUM	604,560	\$	604,560									
8	Minco		LSUM	0	\$	-									
9	0.45 miles south of SH 37 West to Canadian River	1	LSUM	296,520	\$	296,520									
10	Canadian River ²	1	LSUM	123,600	\$	123,600									
11	Canadian River to 0.50 miles north of SH 152 Eas	t 1	LSUM	949,020	\$	949,020									
	0.50 miles north of SH 152 East to E 1090 Road ²	1	LSUM	1,825,295	\$	1,825,295									
12	U.DU ITIIIES HOTH OF OTT TOZ EAST to E 1000 FROM						\$	7,470,9							

² From ODOT Project Report dated 1/23/06.

		UTILITIE	5				
Segment	Approximate Extents	Quantity	Units	Unit Cost	,	Sub-total	 Total
Jeginent				(\$)			
1	US 62 to E 1320 Road ³	1	LSUM	216,812	\$	216,812	
2	E 1320 Road to E 1290 Road ³		LSUM	1,320,719	\$	1,320,719	
3	E 1290 Road to E 1260 Road ³		LSUM	520,063	\$	520,063	
4	Pocasset ³		LSUM	345,938	\$	345,938	
5	E 1250 Road to E 1230 Road ³		LSUM	646,250	\$	646,250	
6	E 1230 Road to E 1200 Road ³		LSUM	450,063	\$	450,063	
7	E 1200 Road to South Street in Minco 3		LSUM	554,000	\$	554,000	
8	Minco ³	1	LSUM	0	\$	-	
9	0.45 miles south of SH 37 West to Canadian River 3	1	LSUM	627,156	\$	627,156	
10	Canadian River ²		LSUM	318,270	\$	318,270	
11	Canadian River to 0.50 miles north of SH 152 East s		LSUM	925,594	\$	925,594	
12	0.50 miles north of SH 152 East to E 1090 Road ²	1	LSUM	1,523,436	\$	1,523,436	
12	U.SU TIMES HOLLI OF OTT TOZ EGOL TO E 1988 TREES						\$ 7,448

From ODOT Project Report dated 1/23/06.
 Unit Cost includes both public and private utility costs.

Canadian and Grady Counties Job Piece No. 21603(04) Chickasha to Union City

ULTIMATE 4 LANE

		TOTAL																				\$ 129,285,798	
	Seament	Sub-total		\$ 75,378,881	\$ 14,026,416	\$ 12.974.978		9,100,402	\$ 7,752,713	\$ 10 761 085		\$ 11,429,805	\$ 2.832.528	ľ	\$ 11,610,525	\$ 6.888.800	0 105 352	1	\$ 11,946,251				
	Construction	Fnoinearing	1	1,787,451	\$ 775,879	861 666	+	198,699	475,761	╀	200	\$ 727,168	\$ 200 533	000,002	\$ 756,593	1	007 002	-			7.039.917		
		Hilliton	Oundes	\$ 216,812	1 320 719			\$ 345,938	\$ 646 250		+	\$ 554,000			\$ 627.156	(の)の方式を対する		\$ 925,594	E 4 523 436		7 448 301		
nmarv	-	1777	Rignt-or-way	\$ 914,330	4 746 400 \$	0000		\$ 35,894	386 340	2000000	\$ 187,954	\$ 604.560		-	296 488	Stranger of the		\$ 949,464	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7 25/ 215 \$		
North Segment Summary		:	Construction	\$ 22.343.132	0 608 403		\$ 10,770,819	\$ 2,483,744	E 047 042	3,947,012	\$ 8,958,468	0 080 597		\$ 2,506,662	D A 57 A 17	2	G 446 930 B	\$ 6,743,623	DED ED S	0.00 0.00		4 103,043,410	
Nor	1011	Preliminary	Engineering	1117157		484,920	538,541	124 187			\$ 447,923	VEN ABO		\$ 125,333	170 071	4/2,0/1	-	\$ 337.181		-		\$ 4,388,848 \$	
		Length	(miles)	2 0.4	T	3.00	3.17	1 00	T	2.00	3.00	t	7.50	1.20	T		0.57	2.36	t	2.50		26.54	
			Approximate Extents		US 62 to E 1320 Road	E 1320 Road to E 1290 Road	E 1200 Road to E 1260 Road	2001 0001 0001 0001 0001 0001 0001 0001	Pocasset	E 1250 Road to E 1230 Road	E 4020 Dood to E 4000 Road	E IZOU RUBU IU E IZUU INDBU	E 1200 Road to South Street in Minco	Mino	IMILICO	0.45 miles south of SH 37 West to Canadian River	Canadian River	O	Canadian Kiver to 0.30 illies iloitii oi oi 1 132 East	0.50 miles north of SH 152 East to E 1090 Road		Category Sub-total	
			Somment	Deginent.	1	2	2	,	4	2	T	٥	7	C	0	6	40	2	11	12	1		

NOTES

Construction cost for Segment 1 includes earthwork for the north side of the future US 81 / US 62 interchange and for the grade separation at the Union Pacific Railroad Civerpass bridge.

- from ODOT Project Report dated 1/23/06

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

Segment 1 - US 62 to E 1320 Road							
JS 81: Sta. 100+00 - Sta. 255+18.88							
ength = 2.94 miles			T 0 1				Tatal
ltem	Quantity	Units	Unit Cost		Sub-total		Total
URFACING			(\$)				
Divided 4-Lane			00	Φ.	005 000		
2" Type S4 Asph. Conc. (PG 76-28 OK)	14,760	ton	60 56	\$	885,600 1,253,000		
3" Type S3 Asph. Conc. (PG 76-28 OK)	22,375	ton	53	\$	2,826,755		
7" Type S2 Asph. Conc. (PG 64-22 OK)	53,335	ton Gal	1.75	\$	35,245		
Tack Coat	20,140	Gal	2.25	\$	51,266		
Prime Coat	22,785	Gai	2.25	Ψ	31,200		
8" Lime Stabilized Subgrade	2,750	ton	135	\$	371,250		
Lime Stabilized Subgrado	151,795	SY	2.25	\$	341,539		
Lime Stabilized Subgrade	151,795	31	2.20	Ψ	041,000	\$	5,764,655
						4	-,, -,,
- A DTHMODIZATION CONTRACTOR OF THE CONTRACTOR O		Г	(\$)	1			
EARTHWORK Excavation	176,400	CY	5	\$	882,000	l	
Borrow ¹	701,650	CY	6	\$	4,209,900	1	
Bollow	701,000			Ι Ψ	1,200,000	\$	5,091,900
PRINCE	I	1	(\$)	7			
BRIDGE Union Pacific Railroad Overpass	18.800	SF	115	\$	2,162,000	1	
Washita River overflow		SF	95	\$	1,339,500	1	
Washita River overflow		SF	95	\$	1,339,500	1	
Washita River		SF	95	\$	1,786,000		
Tracina Tare.	1 101000					\$	6,627,00
DRAINAGE			(\$)]		_	
Pipe (24" or smaller)	200	LF	55	\$	11,000]	
Pipe (30" or larger)		LF	80	\$	48,000		
RCB (24 SF or smaller)		LF	300	\$	120,000		
RCB (30 SF to 64 SF	0	LF	475	\$	-		
RCB (70 SF or larger		LF	600	\$	-		
	, 1					\$	179,00
				_			
MISCELLANEOUS			(\$)			_	
% of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	17,662,555	5 \$	1,766,256		
						\$	1,766,25
CONTINGENCY			(\$)			_	
% of above Item Cost	s 15%	%	19,428,81	1 \$	2,914,322		
						\$	2,914,3
						\$	22,343,13

Borrow quantity comprised of the elevated portion of US 81 on the north side of the future US 81 / US 62 interchange and the grade separation at the Union Pacific Railroad crossing. If the US 81 profile is kept at-grade, i.e. no US 81 / US 62 interchange nor Union Pacific Railroad Overpass bridge, the construction cost would be reduced to \$14,282,679.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ength = 3.00 miles	Quantity	Units	Unit Cost		Sub-total		Total
ltem	Quantity	Units	(\$)		oub total		10101
URFACING			(Φ)				
Divided 4-Lane	15,060	ton	60	\$	903,600		
2" Type S4 Asph. Conc. (PG 76-28 OK) 3" Type S3 Asph. Conc. (PG 76-28 OK)	22,830	ton	56	\$	1,278,480		
7" Type S2 Asph. Conc. (PG 64-22 OK)	54,420	ton	53	\$	2,884,260		
7" Type S2 Aspn. Conc. (PG 64-22 OK) Tack Coat	20,550	Gal	1.75	\$	35,963		
Prime Coat	23,250	Gal	2.25	\$	52,313		
8" Lime Stabilized Subgrade	20,200	Our	2.20	4			
6 Lime Stabilized Subgrade	2,805	ton	135	1 \$	378,675		
Lime Stabilized Subgrade	154,890	SY	2.25	\$	348,503		
Lime Stabilized Subgrade	10-1,000				·	\$	5,881,79
					58 I		
ARTHWORK			(\$)	1			
Excavation	180,000	CY	5	\$	900,000		
Borrow	0	CY	6	\$	-		
						\$	900,00
5							
BRIDGE			(\$)			_	
AMPAC - The first residual of the American endowners and a sound district and a sound district and a sound of the first and the	0	SF	95	\$	-		
						\$	
				_			
DRAINAGE			(\$)			-	
Pipe (24" or smaller)	0	LF	55	\$	-	1	
Pipe (30" or larger)	0	LF	80	\$	_	1	
RCB (24 SF or smaller)	1,600	LF	300	\$	480,000	1	
RCB (30 SF to 64 SF)	600	LF	475	\$	285,000	1	
RCB (70 SF or larger)	200	LF	600	\$	120,000		
						\$	885,0
				_			
MISCELLANEOUS			(\$)			7	
% of Surfacing, Earthwork, Bridge, and Drainage Costs	s 10%	%	7,666,793	\$	766,679		
						\$	766,6
				_			
CONTINGENCY			(\$)		1.005.001	_	
% of above Item Costs	s 15%	%	8,433,472	\$	1,265,021		

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

egment 3 - E 1290 Road to E 1260 Road							
IS 81: Sta. 413+54.00 - Sta. 580+67.40							
ength = 3.17 miles		11.4-	Unit Cost		Sub-total		Total
ltem	Quantity	Units			Sub-total		Total
URFACING			(\$)				
Divided 4-Lane				Φ.	054.000		
2" Type S4 Asph. Conc. (PG 76-28 OK)	15,915	ton	60	\$	954,900		
3" Type S3 Asph. Conc. (PG 76-28 OK)	24,125	ton	56	\$	1,351,000		
7" Type S2 Asph. Conc. (PG 64-22 OK)	57,505	ton	53	\$	3,047,765		
Tack Coat	21,715	Gal	1.75	\$	38,001		
Prime Coat	24,570	Gal	2.25	\$	55,283		
8" Lime Stabilized Subgrade			1 405	Φ.	400 075		
Lime	2,965	ton	135	\$	400,275		
Lime Stabilized Subgrade	163,670	SY	2.25	\$	368,258	<u></u>	C 24E 404
						\$	6,215,481
		Ι	(\$)	1			
EARTHWORK Excavation	190,200	CY	5	\$	951,000	1	
Borrow	0	CY	6	\$	-	i	
BOITOW	0			ļΨ		\$	951,000
						<u> </u>	
BRIDGE	9	T	(\$)	1			
West Fork of Salt Creek	9,400	SF	95	\$	893,000	1	
West Folk of Balt Greek	0,100			1		\$	893,00
DRAINAGE		T	(\$)	7			
Pipe (24" or smaller)	0	LF	55	\$	-	1	
Pipe (30" or larger)		LF	80	\$	-	1	
RCB (24 SF or smaller		LF	300	\$	240,000	1	
RCB (30 SF to 64 SF		LF	475	\$	95,000	1	
RCB (70 SF or larger		LF	600	\$	120,000	7	
1100 (1001 01 1110						\$	455,00
				_			
MISCELLANEOUS	M		(\$)	1-		7	
% of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	8,514,481	\$	851,448		054.4
						\$	851,44
			(\$)	7			
CONTINGENCY	s 15%	%	9,365,929	\$	1,404,889	7	
% of above Item Cost	5 15%	70	3,303,323	ļψ	1,404,003	\$	1,404,88
						Ψ	1,-10-1,00
						0	10,770,81
*						Ψ	10,110,01

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ength = 1.00 miles	0 10 1	11-24-	Unit Coat I		ub-total		Total
Item	Quantity	Units	Unit Cost	5	ub-totai		TOLAI
URFACING			(\$)				
Undivided 4-Lane	0.070	ton	60	\$	142,200		
2" Type S4 Asph. Conc. (PG 76-28 OK)	2,370 3,555	ton	56	\$	199.080		
3" Type S3 Asph. Conc. (PG 76-28 OK)	9,205	ton	53	\$	487.865		
7" Type S2 Asph. Conc. (PG 64-22 OK) Tack Coat	3,645	Gal	1.75	\$	6,379		
Prime Coat	3,790	Gal	2.25	\$	8,528		
8" Lime Stabilized Subgrade	3,790	Oai	2.20	Ψ	0,020		
Eime Stabilized Subgrade	460	ton	135	\$	62,100		
Lime Stabilized Subgrade	25,230	SY	2.25	\$	56,768		
2'-8" Curb & Gutter (8" Barrier)	7,920	LF	22	\$	174,240		
Cold Milling Pavement	7,040	SY	50	\$	352,000		
2.5" Type S4 Asph. Conc. (PG 76-28 OK)	990	ton	61	\$	60,390		
2.0 Type of Friedmin Center (1 2 1 2 1 7						\$	1,549,549
		T	(\$)	1			
EARTHWORK Excavation	9,675	CY	5	\$	48,375		
Borrow	0	CY	6	\$	- 10,070		
BRIDGE		1	(\$)	1		\$	48,375
BRIDGE	0	SF	95	\$	-		
			•			\$	
DRAINAGE			(\$)				
Pipe (24" or smaller)	4,682	LF	55	\$	257,510		
Pipe (30" or larger)		LF	80	\$	_		
RCB (24 SF or smaller)		LF	300	\$	60,000		
RCB (30 SF to 64 SF)		LF	475	\$		4	
RCB (70 SF or larger)		LF	600	\$	-	-	
Closed System (inlets, manholes, etc.) 1	LSUM	48,000	\$	48,000	<u></u>	205.54
						\$	365,51
MISCELLANEOUS			(\$)			-	
% of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	1,963,434	\$	196,343	_	
	Λ					\$	196,34
CONTINGENCY			(\$)			_	
% of above Item Costs	15%	%	2,159,777	\$	323,967		

⁴⁻lane undivided curbed section currently exists in Pocasset between 5th Street and 1st Street (Sta. 594+07.82 - Sta. 607+21.56). The estimated length of <u>new</u> 4-lane undivided curbed section is 0.75 miles.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ength = 2.00 miles	Quantity	Units	Unit Cost	S	sub-total		Total
ltem	Quantity	OTILO	(\$)				
URFACING Divided 4-Lane			(Ψ)				
2" Type S4 Asph. Conc. (PG 76-28 OK)	10.040	ton	60	\$	602,400		
3" Type S3 Asph. Conc. (PG 76-28 OK)	15,220	ton	56	\$	852,320		
7" Type S2 Asph. Conc. (PG 64-22 OK)	36,280	ton	53	\$	1,922,840		
Tack Coat	13,700	Gal	1.75	\$	23,975		
Prime Coat	15,500	Gal	2.25	\$	34,875		
8" Lime Stabilized Subgrade						ŀ	
Lime	1,870	ton	135	\$	252,450	i	
Lime Stabilized Subgrade	103,260	SY	2.25	\$	232,335		
						\$	3,921,195
			(\$)	1			
EARTHWORK Excavation	120,000	CY	5	\$	600,000	1	
Borrow	0	CY	6	\$	-	1	
Bullow	U	01		ΙΨ		\$	600,00
				_			
BRIDGE			(\$)	1		1	
	0	SF	95	\$		\$	
						Ψ	
DRAINAGE			(\$)				
Pipe (24" or smaller)	0	LF	55	\$	-	_	
Pipe (30" or larger)	0	LF	80	\$	-	_	
RCB (24 SF or smaller)	600	LF	300	\$	180,000	_	
RCB (30 SF to 64 SF		LF	475	\$	_	4	
RCB (70 SF or larger	0	LF	600	\$	_	 	400.00
						\$	180,00
MISCELLANEOUS		T	(\$)	7			
% of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	4,701,195	\$	470,120	7	
% of Suffacing, Earthwork, Bridge, and Brainage Good	9 .070	1				\$	470,12
			(#)	7			
CONTINGENCY	450/	%	(\$) 5,171,315	\$	775,697	П	
% of above Item Cost	s 15%	9/0	5,171,315	Φ	110,091	\$	775,69

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ength = 3.00 miles	Quantity	Units	Unit Cost	5	Sub-total		Total
	Quartity	OTITO	(\$)				
URFACING Divided 4-Lane			(4)				
2" Type S4 Asph. Conc. (PG 76-28 OK)	15,060	ton	60	\$	903,600		
3" Type S3 Asph. Conc. (PG 76-28 OK)	22,830	ton	56	\$	1,278,480		
7" Type S2 Asph. Conc. (PG 64-22 OK)	54,420	ton	53	\$	2,884,260		
Tack Coat	20,550	Gal	1.75	\$	35,963		
Prime Coat	23,250	Gal	2.25	\$	52,313		
8" Lime Stabilized Subgrade							
Lime	2,805	ton	135	\$	378,675		
Lime Stabilized Subgrade	154,890	SY	2.25	\$	348,503		
						\$	5,881,7
			(\$)	1			
ARTHWORK Excavation	180,000	CY	5	\$	900,000	1	
Borrow		CY	6	\$	-		
Bollow						\$	900,0
				_			
BRIDGE			(\$)			-	
	0	SF	95	\$		 	
						\$	
	1	1	(\$)	7			
ORAINAGE Pipe (24" or smaller)	0	LF	55	\$	-	7	
Pipe (30" or larger)		LF	80	\$	-	1	
RCB (24 SF or smaller	600	LF	300	\$	180,000	1	
RCB (30 SF to 64 SF		LF	475	\$	-]	
RCB (70 SF or larger		LF	600	\$	120,000		
						\$	300,
			(0)	_			
MISCELLANEOUS	100/	0/	(\$) 7,081,793	\$	708,179	7	
% of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	7,081,793	Ф	700,179	\$	708,
						4	,
CONTINGENCY	Ä.	1	(\$)			_	
% of above Item Cost	s 15%	%	7,789,972	\$	1,168,496		

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

ength = 2.50 miles	Quantity	Units	Unit Cost	S	ub-total		Total
ltem	Quantity	Office	(\$)				
JRFACING Divided 4-Lane			(4)				
2" Type S4 Asph. Conc. (PG 76-28 OK)	6,430	ton	60	\$	385,800		
3" Type S3 Asph. Conc. (PG 76-28 OK)	9,745	ton	56	\$	545,720		
7" Type S2 Asph. Conc. (PG 64-22 OK)	23,220	ton	53	\$	1,230,660		
Tack Coat	8,770	Gal	1.75	\$	15,348		
Prime Coat	9,920	Gal	2.25	\$	22,320		
8" Lime Stabilized Subgrade					100.000		
Lime	1,200	ton	135	\$	162,000	l	
Lime Stabilized Subgrade	66,090	SY	2.25	\$	148,703		2 540 550
			1	٦		\$	2,510,550
Undivided 4-Lane			00	-	224 000	I	
2" Type S4 Asph. Conc. (PG 76-28 OK)	3,850	ton	60	\$	231,000 323,680	1	
3" Type S3 Asph. Conc. (PG 76-28 OK)	5,780	ton	56	\$	793,410	1	
7" Type S2 Asph. Conc. (PG 64-22 OK)	14,970	ton	1.75	\$	9,363	1	
Tack Coat	5,350	Gal Gal	2.25	\$	13,871	1	
Prime Coat	6,165	Gai	2.23	Ψ	10,071	1	
8" Lime Stabilized Subgrade	745	ton	135	\$	100,575	1	
Lime Lime Stabilized Subgrade		SY	2.25	\$	92,329	1	
2'-8" Curb & Gutter (8" Barrier)	12,885	LF	22	\$	283,470	1	
2-8" Curb & Guiler (8 Barrier)	12,000	L				\$	1,847,69
-ASTIMORK			(\$)				
EARTHWORK Excavation	92,540	CY	5	\$	462,700	1	
Borrow		CY	6	\$	-	1	
Donor						\$	462,70
BRIDGE			(\$)			_	
Bridge Box near Sta. 955+30	4,200	SF	80	\$	336,000		
Bridge Box near Sta. 958+60	6,600	SF	80	\$	528,000		
Buggy Creek		SF	95	\$	558,125	_	
¥.4.4.						\$	1,422,12
				_			
DRAINAGE	to the second		(\$)	-	20.000	7	
Pipe (24" or smaller		LF	55	\$	60,060		
Pipe (30" or larger		LF	80	\$	516,320		
RCB (24 SF or smaller		LF	300	\$	150,000		
RCB (30 SF to 64 SF		LF	475	\$	142,500	-	
RCB (70 SF or larger		LF	600	\$	73,500	\exists	
Closed System (inlets, manholes, etc.	.) 1	LSUM	73,500	1 4	73,500	\$	942,3
						ф	342,3
			(0)	_			
	A 1	- N	(\$) 7,185,45	3 \$	718,54	5	
MISCELLANEOUS	100/			. 1 . 1	1 10,34		
MISCELLANEOUS % of Surfacing, Earthwork, Bridge, and Drainage Cost	ts 10%	%	7,100,40	- 1 4			718 5
MISCELLANEOUS % of Surfacing, Earthwork, Bridge, and Drainage Cost	is 10%	1 %	7,100,40	<u> </u>		\$	718,5
% of Surfacing, Earthwork, Bridge, and Drainage Cost	ts 10%	%		7		\$	718,5
% of Surfacing, Earthwork, Bridge, and Drainage Cost			(\$)		1 185 60		718,5
% of Surfacing, Earthwork, Bridge, and Drainage Cost		%			1,185,60	0	
% of Surfacing, Earthwork, Bridge, and Drainage Cost			(\$)		1,185,60		718,5 1,185,6

Divided 4-lane roadway is proposed between E 1200 Road and Buggy Creek (Sta. 897+35.36 - Sta. 965+00), a length of 1.28 miles. Undivided 4-lane roadway is proposed between Buggy Creek and South Street in Minco (Sta. 965+00 - Sta. 1029+17.41), a length of 1.22 miles.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

ength = 1.20 miles	Quantity	Units	Unit Cost	S	ub-total		Total
Item	Quantity	OTILO	(\$)				
URFACING Undivided 4-Lane			(Ψ)				
2" Type S4 Asph. Conc. (PG 76-28 OK)	0	ton	60	\$	-		
3" Type S3 Asph. Conc. (PG 76-28 OK)	0	ton	56	\$	-		
7" Type S2 Asph. Conc. (PG 64-22 OK)	0	ton	53	\$	-		
Tack Coat	1,695	Gal	1.75	\$	2,966		
Prime Coat	0	Gal	2.25	\$	-		
8" Lime Stabilized Subgrade							
Lime	0	ton	135	\$	-		
Lime Stabilized Subgrade	0	SY	2.25	\$			
2' 8" Curb & Gutter (8" Barrier)	0	LF	22	\$	4.000.750		
Cold Milling Pavement	33,795	SY	50	\$	1,689,750		
2.5" Type S4 Asph. Conc. (PG 76-28 OK)	4,735	ton	61	\$	288,835	\$	1,981,55
					1	Ψ	1,501,50
n and the strong states at the			(\$)	1			
EARTHWORK Excavation	0	CY	5	\$	- 1		
Borrow	0	CY	6	\$	-		
Bollow						\$	
BRIDGE			(\$)				
Bridge Box near Sta. 1067+80	0	SF	80	\$	-		
						\$	
				_			
DRAINAGE			(\$)	_		1	
Pipe (24" or smaller)		LF	55	\$		-	
Pipe (30" or larger)		LF	80	\$		-	
RCB (24 SF or smaller)		LF	300	\$		1	
RCB (30 SF to 64 SF)	0	LF	475	\$		1	
RCB (70 SF or larger)	0	LF	600	\$		1	
Closed System (inlets, manholes, etc.) 0	LSUM	U	Ф		\$	
						Ψ	
			(\$)	7			
MISCELLANEOUS	s 10%	%	1,981,551	\$	198,155	7	
% of Surfacing, Earthwork, Bridge, and Drainage Cost	S 1076	70	1,501,001	ΙΨ	100,100	\$	198,
		1	(\$)	7			
CONTINGENCY % of above Item Costs	15%	%	2,179,706	\$	326,956	1	
70 01 apove item costs	1070	, , ,				\$	326,

4-lane undivided curbed section currently exists in Minco between South Street and about 0.45 miles south of SH 37 West (Sta. 1029+17.41 - Sta. 1092+40.71).

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

ength = 2.30 miles	Quantity	Units	Unit Cost		Sub-total		Total
Item	Quantity	UTILS	(\$)		oub-total		rotar
JRFACING Physided 4 Lens			(Φ)				
Divided 4-Lane 2" Type S4 Asph. Conc. (PG 76-28 OK)	7,030	ton	60	\$	421,800		
3" Type S3 Asph. Conc. (PG 76-28 OK)	10,655	ton	56	\$	596,680		
7" Type S2 Asph. Conc. (PG 64-22 OK)	25,400	ton	53	\$	1,346,200		
Tack Coat	9,590	Gal	1.75	\$	16,783		
Prime Coat	10,850	Gal	2.25	\$	24,413		
8" Lime Stabilized Subgrade					1		
Lime	1,310	ton	135	\$	176,850		
Lime Stabilized Subgrade	72,285	SY	2.25	\$	162,641	_	0 747 00
				1	ı	\$	2,745,36
Undivided 4-Lane			00	0	170 400		
2" Type S4 Asph. Conc. (PG 76-28 OK)	2,840	ton	60	\$	170,400 238,840		
3" Type S3 Asph. Conc. (PG 76-28 OK)	4,265	ton	56 53	\$	585,385		
7" Type S2 Asph. Conc. (PG 64-22 OK)	11,045	ton Gal	1.75	\$	6,913		
Tack Coat Prime Coat	3,950 4,545	Gal	2.25	\$	10,226		
8" Lime Stabilized Subgrade		<u> </u>	2.20	1 4	,===		
Lime	550	ton	135	\$	74,250	1	
Lime Stabilized Subgrade		SY	2.25	\$	68,119		
2'-8" Curb & Gutter (8" Barrier)		LF	22	\$	209,110		
ARTHWORK Excavation Borrow		CY	(\$) 5 6	\$ \$	478,050	}	
Bollow						\$	478,0
en e			(\$)	7			
BRIDGE Union Pacific Railroad Overpass	21,000	SF	115	\$	2,415,000	1	
Official Facility Railload Overpass	21,000					\$	2,415,0
DRAINAGE			(\$)			_	
Pipe (24" or smaller	832	LF	55	\$	45,760		
Pipe (30" or larger		LF	80	\$	372,800	4	
RCB (24 SF or smaller) 0	LF	300	\$	-	4	
RCB (30 SF to 64 SF		LF	475	\$		4	
RCB (70 SF or larger	0	LF	600	\$		\exists	
Closed System (inlets, manholes, etc.	.) 1	LSUM	56,000	\$	56,000	\$	474,5
						Φ	414,0
our words in the high way works the property of the control of the	85 1	T	(\$)	7			
MISCELLANEOUS	ts 10%	%	7,476,219	S .	747,622		
% of Surfacing, Earthwork, Bridge, and Drainage Cost	1070		17,770,210	· · · ·	7 17,322	\$	747,
			(\$)	7			
CONTINGENCY % of above Item Cost	ts 15%	%	8,223,84	\$	1,233,576	3	
% of above item cos	1070		1 0,220,01	1 7	, , , , , , , , , , , , , , , , , , , ,	\$	1,233,
						7	
							9,457,4

Divided 4-lane roadway is proposed between 0.45 miles north of SH 37 West and 0.34 miles south of the Canadian River (Sta. 1140+00 - Sta. 1214+00), a length of 1.40 miles.

Undivided 4-lane roadway is proposed between 0.45 miles south of SH 37 West and 0.45 miles north of SH 37 West (Sta. 1092+40.71 - Sta. 1140+00), a length of 0.90 miles.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

Segment 10 - Canadian River					
JS 81: Sta. 1214+00 - Sta. 1244+00					
ength = 0.57 miles		,			
Item	Quantity	Units	Unit Cost	Sub-total	Total
URFACING			(\$)		
Divided 4-Lane					_
2" Type S4 Asph. Conc. (PG 76-28 OK)	0	ton	60	\$	-
3" Type S3 Asph. Conc. (PG 76-28 OK)	0	ton	56	\$	-
7" Type S2 Asph. Conc. (PG 64-22 OK)	0	ton	53	\$	-
Tack Coat	0	Gal	1.75	\$	-
Prime Coat	0	Gal	2.25	\$	-
8" Lime Stabilized Subgrade					
Lime	0	ton	135	\$	-
Lime Stabilized Subgrade	0	SY	2.25	\$	-
					\$
EARTHWORK	<u> </u>		(\$)	1	
Excavation	0	CY	5	\$	-
Borrow	0	CY	6	\$	-
					\$
			(0)	1	
BRIDGE		0.5	(\$)		_
Canadian River	0	SF	95	\$	- 6
					\$
DRAINAGE			(\$)	7	
Pipe (24" or smaller)	0	LF	55	\$	-
Pipe (30" or larger)		LF	80	\$	-
RCB (24 SF or smaller)		LF	300	\$	-
RCB (30 SF to 64 SF)		LF	475	\$	-
RCB (70 SF or larger)	0	LF	600	\$	-
		-			\$
MISCELLANEOUS		T	(\$)	٦	
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	0	\$	-
70 Of Odriacing, Earthwork, Driago, and Drainago Cook	5 1070	,,,,		1.7	\$
22 Johnson married to the Proposition of the October 1			(e)	7	
CONTINGENCY	450/	0/	(\$)	c	
% of above Item Costs	15%	%	0	\$	- \$
					Ф
2					
					\$

From ODOT Project Report dated 1/23/06 ---> US 81 bridge over the Canadian River, BRFY-01-1N(054) construction cost = \$ 6,446,930

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

ength = 2.36 miles	Ouantity I	Unito	Unit Cost	-	ub-total		Total
Item	Quantity	Units			ub-total 1		TOTAL
IRFACING			(\$)				
Divided 4-Lane 2" Type S4 Asph. Conc. (PG 76-28 OK)	8,335	ton	60	\$	500,100		
3" Type S3 Asph. Conc. (PG 76-28 OK)	12,635	ton	56	\$	707,560		
7" Type S2 Asph. Conc. (PG 64-22 OK)	30,115	ton	53	\$	1,596,095		
Tack Coat	11,375	Gal	1.75	\$	19,906		
Prime Coat	12,865	Gal	2.25	\$	28,946		
8" Lime Stabilized Subgrade							
Lime	1,555	ton	135	\$	209,925		
Lime Stabilized Subgrade	85,710	SY	2.25	\$	192,848		
				,		\$	3,255,38
Undivided 4-Lane						1	
2" Type S4 Asph. Conc. (PG 76-28 OK)	0	ton	60	\$		1	
-3" Type S3 Asph. Conc. (PG 76-28 OK)-	0	ton	56	\$		-	
7" Type S2 Asph. Conc. (PG 64 22 OK)	0	ton	53	\$	1,733	1	
Tack Coat	990	Gal Gal	1.75	\$	1,733	1	
Prime Coat	0	Gai	2.25	ΙΦ		1	
8" Lime Stabilized Subgrade- Lime	0	ton	135	T \$	-	1	
Lime Stabilized Subgrade	0	SY	2.25	\$	-	1	
2' 8" Curb & Gutter (8" Barrier)	0	LF	22	\$		1	
Cold Milling Pavement	19,715	SY	50	\$	985,750	1	
2.5" Type S4 Asph. Conc. (PG 76-28 OK)	2,765	ton	61	\$	168,665	1	
ARTHWORK Excavation	99,600	CY	(\$)	\$	498,000	7	
Воггом		CY	6	\$	-	1	
						\$	498,00
				_			
RIDGE			(\$)			7	
Bridge Box near Sta. 1261+60	2,880	SF	80	\$	230,400	-	220.4
						\$	230,4
RAINAGE	1	1	(\$)	٦			
Pipe (24" or smaller)	200	LF	55	\$	11,000	7	
Pipe (30" or larger)		LF	80	\$		7	
RCB (24 SF or smaller)		LF	300	\$	60,000		
RCB (30 SF to 64 SF)		LF	475	\$			
RCB (70 SF or larger)		LF	600	\$	120,000		
Closed System (inlets, manholes, etc.)	0	LSUM	0	\$		-	
						\$	191,0
		1	(4)	_			
VIISCELLANEOUS	1	 	(\$)	-	F00 000		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	5,330,928	\$	533,093	\$	533,0
						Φ	555,0
CONTINGENCY	-1	T	(\$)	7			
% of above Item Costs	15%	%	5,864,020	\$	879,603	3	
	1070	, ,,,	1 -1-0 .1020	1 7	2,-1500		879,6

Divided 4-lane roadway is proposed between 0.23 miles north of the Canadian River and 0.22 miles south of SH 152 East (Sta. 1244+00 - Sta. 1331+53.12), a length of 1.66 miles.

4-lane undivided curbed section currently exists in Union City between 0.20 miles south of SH 152 East and 0.50 miles north of SH 152 East (Sta. 1331+53.12 - Sta. 1368+72.39).

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

segment 12 - 0.50 miles north of SH 152 East to E	1090 Road				
JS 81: Sta. 1368+72.39 - Sta. 1500+90.10					
ength = 2.50 miles			1		
Item	Quantity	Units	Unit Cost	Sub-total	Total
URFACING			(\$)		
Divided 4-Lane					
2" Type S4 Asph. Conc. (PG 76-28 OK)	0	ton	60	\$	
3" Type S3 Asph. Conc. (PG 76-28 OK)	0	ton	56	\$	
7" Type S2 Asph. Conc. (PG 64-22 OK)	0	ton	53	\$	-
Tack Coat	0	Gal	1.75	\$	-
Prime Coat	0	Gal	2.25	\$	-
8" Lime Stabilized Subgrade				T	
Lime	0	ton	135	\$	-
Lime Stabilized Subgrade	0	SY	2.25	\$	-
					\$
			(\$)	1	
EARTHWORK Excavation	0	CY	5	\$	
Borrow	0	CY	6	\$	_
BOITOW	U	01		ΙΨ	\$
					4
BRIDGE			(\$)	7	
	0	SF	95	\$	-
					\$
				7	
DRAINAGE			(\$)		
Pipe (24" or smaller)		LF	55	\$	-
Pipe (30" or larger)		LF	80	\$	-
RCB (24 SF or smaller)		LF	300	\$	-
RCB (30 SF to 64 SF)		LF	475	\$	-
RCB (70 SF or larger)	0	LF	600	\$	-
					\$
	1	Т	(\$)	7	
MISCELLANEOUS	10%	%	0	\$	
% of Surfacing, Earthwork, Bridge, and Drainage Costs	1070	/0		IΨ	\$
CONTINGENCY			(\$)		- F
% of above Item Costs	15%	%	0	\$	-
					\$
					\$

From ODOT Project Report dated 1/23/06 ---> US 81 from north edge of Union City north 3.34 miles, NHY-011N(008) construction cost = \$...8;597,520.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

	RIG	HT-OF-V	VAY			
Segment	Approximate Extents	Quantity	Units	Unit Cost	Sub-total	Total
				(\$)		
1	US 62 to E 1320 Road	1	LSUM	690,720	\$ 690,720	
2	E 1320 Road to E 1290 Road	1	LSUM	1,708,320	\$ 1,708,320	
3	E 1290 Road to E 1260 Road	1	LSUM	423,840	\$ 423,840	
4	Pocasset	1	LSUM	103,920	\$ 103,920	
5	E 1250 Road to E 1230 Road	1	LSUM	455,400	\$ 455,400	
6	E 1230 Road to E 1200 Road	1	LSUM	289,800	\$ 289,800	
7	E 1200 Road to South Street in Minco	1	LSUM	604,560	\$ 604,560	
8 ·	Minco	1	LSUM	0	\$ -	
9	0.45 miles south of SH 37 West to Canadian River	1	LSUM	296,520	\$ 296,520	
10	Canadian River ²	1	LSUM	123,600	\$ 123,600	
11	Canadian River to 0.50 miles north of SH 152 East	1	LSUM	949,020	\$ 949,020	
12	0.50 miles north of SH 152 East to E 1090 Road ²		LSUM	1,825,295	\$ 1,825,295	
						\$ 7,470,99

² From ODOT Project Report dated 1/23/06.

		UTILITIE	S			
Segment	Approximate Extents	Quantity	Units	Unit Cost	Sub-total	Total
				(\$)		
1	US 62 to E 1320 Road ³	1	LSUM	216,812	\$ 216,812	
2	E 1320 Road to E 1290 Road ³	1	LSUM	1,320,719	\$ 1,320,719	
3	E 1290 Road to E 1260 Road ³	1	LSUM	520,063	\$ 520,063	
4	Pocasset ³	1	LSUM	345,938	\$ 345,938	
5	E 1250 Road to E 1230 Road ³	1	LSUM	646,250	\$ 646,250	
6	E 1230 Road to E 1200 Road ³	1	LSUM	450,063	\$ 450,063	1
7	E 1200 Road to South Street in Minco 3	1	LSUM	554,000	\$ 554,000	
8	Minco ³	1	LSUM	0	\$ -	
9	0.45 miles south of SH 37 West to Canadian River ³	1	LSUM	627,156	\$ 627,156	
10	Canadian River ²	1	LSUM	318,270	\$ 318,270	
11	Canadian River to 0.50 miles north of SH 152 East 3	1	LSUM	925,594	\$ 925,594	
12	0.50 miles north of SH 152 East to E 1090 Road ²		LSUM	1,523,436	\$ 1,523,436	
,,,,,,						\$ 7,448,301

From ODOT Project Report dated 1/23/06.
 Unit Cost includes both public and private utility costs.

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

T	_	_	T		_	-	-	-	-	-	T	~	Ť	ı	
		IATOT	IOIAL									A77 000 E7A	4 17,300,01		
	Seament		Sub-total	4 07 02G 2AE	4	١,	80,070,229								
	Construction	COLISII UCUOLI	Engineering		6.072.854		6 176 680				12.249.534				
			Utilites		536 813 8		4 4 4 B 5 2 E				1 685 338 \$				
mmary	,		Right-of-Way	right of the	4 520 170 8			# oso'o/o'l			9 10g 5gg A				
Weight Bynge Silmman	asila Dypass or		Construction	COLISII DCIIOI	1100000	8 4/0'018'C/		\$ 77.208.502 \$	١		1110000	8 123.119.17			
Sicial	CINCK	Preliminary	T T T T T	Fugureering		3 795 534		3 860 425 S				7 655 959	١		
		I oneth	Leigin	(miles)	,	2.76	2.10	1 00	1			ממט	1		
				Approximate Extents	Apploximate Externs		of SH 19 to Norde Koad		Norde Road to US 62	0		1000	Category Sun-total		
				-	Segment		0.	-	N 0-0						

NOTES

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ength = 2.76 miles	Quantity	Units	Unit Cost	S	ub-total		Total
URFACING			(\$)		-2		
Divided 4-Lane							
2" Type S4 Asph. Conc. (PG 76-28 OK)	10,845	ton	60	\$	650,700		
3" Type S3 Asph. Conc. (PG 76-28 OK)	16,440	ton	56	\$	920,640		
7" Type S2 Asph. Conc. (PG 64-22 OK)	39,185	ton	53	\$	2,076,805		
Tack Coat	14,800	Gal	1.75	\$	25,900		
Prime Coat	16,740	Gal	2.25	\$	37,665		
8" Lime Stabilized Subgrade				_	070 700		
Lime	2,020	ton	135	\$	272,700		
Lime Stabilized Subgrade	111,525	SY	2.25	\$	250,931	<u></u>	4.025.24
					L	\$	4,235,34
The second of th			(\$)				
EARTHWORK % of Surfacing Cost	25%	%	4,235,341	\$	1,058,835		
% of Surfacing Cost	2370	70	4,200,011	4	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	1,058,83
BRIDGE			(\$)				
West Side Creek	2	LSUM	2,000,000	\$	4,000,000	ľ.	
Country Club Road		LSUM	2,000,000	\$	2,000,000		
Tributary to the Washita River	1	LSUM	2,000,000	\$	2,000,000		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						\$	8,000,00
				,			
DRAINAGE			(\$)			1	
% of Surfacing Cost	15%	%	4,235,341	\$	635,301	-	COF 20
						\$	635,30
			(\$)	7			
INTERCHANGE		LCUM	18,000,000	\$	18.000.000	1	
SH 19		LSUM	18,000,000		18,000,000	1	
1-44		LSUM	12,000,000		12,000,000	1	
Norge Road	1	LSUIVI	1 12,000,000	Ψ	12,000,000	\$	48,000,00
						*	,,
FIGURE AND	1	T	(\$)	7			
MISCELLANEOUS % of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	13,294,177	\$	1,329,418	1	
% of Surfacing, Earthwork, Bridge, and Brainage Cost	5 1075					\$	1,329,4
CONTINGENCY		1	(\$)			_	
% of above Item Cost	s 20%	%	63,258,895	\$	12,651,779	1	

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

egment C - 2: Norge Road to US 62 S 81: Sta. 145+65.00 - Sta. 361+66.86							
ength = 4.09 miles	Quantity	Units	Unit Cost	S	ub-total		Total
ltem	Quantity	Onits	(\$)		1010.		
URFACING Divided 4-Lane			(Ψ)				
	17,520	ton	60	\$	1,051,200		
2" Type S4 Asph. Conc. (PG 76-28 OK) 3" Type S3 Asph. Conc. (PG 76-28 OK)	26,560	ton	56	\$	1,487,360		
7" Type S3 Aspn. Conc. (PG 76-26 OK)	63,310	ton	53	\$	3,355,430		
Tack Coat	23,910	Gal	1.75	\$	41,843		
Prime Coat	27,050	Gal	2.25	\$	60,863		
8" Lime Stabilized Subgrade	27,000	Cui					
Lime	3,265	ton	135	\$	440,775		
Lime Stabilized Subgrade	180.190	SY	2.25	\$	405,428		
Little Stabilized Subgrade	100,100					\$	6,842,898
ARTHWORK			(\$)				
% of Surfacing Cost	25%	%	6,842,898	\$	1,710,724		
						\$	1,710,72
BRIDGE			(\$)				
Line Creek	1	LSUM	2,000,000	\$	2,000,000		
N 2815 Road	1	LSUM	2,000,000	\$	2,000,000		
29th Street	1	LSUM	2,000,000	\$	2,000,000		
Rock Hollow Creek	1	LSUM	2,000,000	\$	2,000,000	•	0.000.00
						\$	8,000,00
			T (#)	7			
DRAINAGE	450/	0/	(\$) 6,842,898	\$	1,026,435	1	
% of Surfacing Cost	15%	%	6	\$	2.700,000		
Rock Hollow Creek Channel Improvements - Earthwork	450,000	CY SY	90	\$	405,000	1	
Rock Hollow Creek Channel Improvements - Paved Ditch	4,500	31] 90	ļΨ	400,000	\$	4,131,43
						Ψ	1,101,10
		T	(\$)	7			
INTERCHANGE Grand Avenue	1	LSUM	12,000,000	\$	12,000,000	1	
Idaho Avenue		LSUM	12,000,000		12,000,000	1	
US 62		LSUM	18,000,000		18,000,000	1	
00 02		1 200				\$	42,000,00
MISCELLANEOUS	1	T	(\$)	7			
% of Surfacing, Earthwork, Bridge, and Drainage Cost	s 10%	%	16,553,622	\$	1,655,362		
76 of Surfacing, Earthwork, Bridge, and Brainage						\$	1,655,3
CONTINGENCY			(\$)			_	
% of above Item Cost	s 20%	%	64,340,419	\$	12,868,084	_	
						\$	12,868,0
■						0	77,208,50

Chickasha to Union City Canadian and Grady Counties Job Piece No. 21603(04)

ULTIMATE 4 LANE

	RIG	HT-OF-	NAY			
Segment	Approximate Extents	Quantity	Units	Unit Cost	Sub-total	Total
				(\$)		
C-1	South of SH 19 to Norge Road	1	LSUM	1,520,470	\$ 1,520,470	
C-2	Norge Road to US 62		LSUM	1,676,096	\$ 1,676,096	
						\$ 3,196,566

		UTILITIE	S			
Segment	Approximate Extents	Quantity	Units	Unit Cost	Sub-total	Total
				(\$)		
C-1	South of SH 19 to Norge Road	1	LSUM	536,813	\$ 536,813	
C-2	Norge Road to US 62		LSUM	1,148,525	\$ 1,148,525	
						\$ 1,685,338

Unit Cost includes both public and private utility costs.

TRANSMITTAL

To:

Ron Weltzheimer, Diane Abernathy,

Larry Wicks, Benham

From:

Annette Owens, Cinnabar Service Company

Date:

August 1, 2006

Subject: US-81 Corridor Study, Segments 1-12

NOTE: The following land values were used in the estimates

Segment 1

\$6,000/acre

Segment 2

\$4,000/acre

Segment 3

\$3.000/acre

Segment 4

\$7,000/acre

Segment 5

\$3,000/acre

Segment 6

\$3,000/acre

Segment 7A Existing Station 900-970 \$4,000/acre Station 970-1030 land value included

Segment 7B Alternate Station 900-950 \$4,000/acre Station 950-1030 land value included

Segment 8 \$8,000/acre

Seament 9

\$7,000/acre

Segment 10 \$4,000/acre

Segment 11 \$6,500/acre

Segment 12 \$6,500/acre

NOTE: Nominal takes (values less than \$2,000) for each segment were estimated at \$2,000.

SEGMENT #1 Station 100-255 125 East

COMMENTS	Present R/W			SFD; 2161 Hwy 81 damaged	SFD; 2200 Hwy 81 damaged; Dusters & Sprayers Supply, Inc.			SFU				20% OF TOTAL	
DAMAGES				\$20,000	\$50,000					\$70,000			
RELOCATION								\$50,000		\$50,000	\$761,942	\$152,388	\$914,330
VALUE		\$132,741	\$36,157		\$155,000	\$8,609	\$34,435	\$275,000		\$641,942			·
TYPE		Agricutural Land	Agricutural Land	Residential	Mixed Use	Agricutural Land	Agricutural Land	Residential		SUBTOTALS	TOTAL	Contingency	GRAND TOTAL
STATION	100-120	120-120	201-221	200	221-230	230-235	235-255	255					

Pane 1 of 1

SEGMENT #2

Station 255-415 125'East

Agricultural Land \$28,696 Residential \$100,000 Residential \$70,000 Residential \$70,000 Agricultural Land \$120,000 Residential \$120,000 Residential \$32,140 Residential \$32,140 Residential \$32,000 Commercial \$35,000 Commercial \$50,000 Acreage Homesite \$22,957 Acreage Homesite \$25,253 Acreage Homesite \$25,000 Acreage Homesite \$50,000 Acreage Homesite \$50,000 Acreage Homesite \$55,000	STATION	TYPE	VALUE	RELOCATION	DAMAGES	COMMENTS
Residential \$100,000 \$50,000 Residential \$200,000 \$40,000 Residential \$70,000 \$40,000 Residential \$70,000 \$20,000 Residential \$120,000 \$25,000 Residential \$175,000 \$35,000 Residential \$35,000 \$18,000 Residential \$35,000 \$18,000 Residential \$33,287 \$18,000 Agricultural Land \$33,287 \$18,000 Acreage Homesite \$25,000 \$18,000 Acreage Homesite \$25,000 \$18,000 Acreage Homesite \$25,000 \$25,000 Acr	280	Agricultural Land	\$28,696			
Residential \$200,000 \$50,000 Residential \$70,000 \$40,000 Residential \$120,000 \$25,000 Agricultural Land \$32,140 \$40,000 Residential \$175,000 \$40,000 Residential \$175,000 \$180,000 Residential \$32,140 \$180,000 Residential \$33,287 \$18,000 Agricultural Land \$5,000 \$180,000 Acreage Homesite \$25,000 \$180,000 Acreage Homesite \$25,000 \$25,000 Acreage Homesite \$25,000 \$180,000 Acreage Homesite \$25,000 \$25,000	280-290	Residential	\$100,000	\$50,000		
Residential \$70,000 \$40,000 Residential \$70,000 \$40,000 Commercial \$120,000 \$25,000 Agricultural Land \$175,000 \$40,000 Residential \$175,000 \$50,000 Residential \$35,000 \$18,000 Commercial \$33,287 \$18,000 Residential \$5,000 \$18,000 Agricultural Land \$5,000 \$18,000 Acreage Homesite \$22,957 \$25,000 Acreage Homesite \$25,000 \$53,000 Acreage Homesite \$50,000 \$14,455,333 TOTAL \$22,000 \$22,000 Acreage Homesite \$52,000 \$23,000 Acre	=	Residential	\$200,000	\$50,000		
Residential	E	Residential	\$70,000	\$40,000		
Commercial \$120,000 \$25,000 Agricultural Land \$32,140 \$40,000 Residential \$175,000 \$40,000 Residential \$35,000 \$180,000 Residential \$80,000 \$180,000 Residential \$80,000 \$180,000 Acreage Homesite \$22,957 \$22,957 Acreage Homesite \$25,253 \$35,000 Acreage Homesite \$25,253 \$1,082,333 Acreage Homesite \$50,000 \$53,000 Acreage Homesite \$25,000 \$53,000 Acreage Homesite \$25,333 \$25,000 Acreage Homesite \$25,333 \$1,082,333 TOTAL \$1,7455,333 Contingency \$1,746,400	291	Residential	\$70,000	\$40,000		0 = 1. 1. 1. 1. 1. 1. 1. 1.
Agricultural Land \$32,140 \$40,000 \$35,000 Residential \$175,000 \$50,000 \$35,000 Residential \$35,000 \$18,000 \$18,000 Commercial \$33,287 \$18,000 \$18,000 Acreage Homesite \$22,957 \$22,957 \$25,000 Acreage Homesite \$25,253 \$25,200 \$53,000 Acreage Homesite \$25,253 \$1,082,333 \$320,000 \$53,000 Acreage Homesite \$50,000 \$53,000 \$53,000 \$25	92	Commercial	\$120,000	\$25,000		Morse Welding a Unice
Residential	292-320	Agricultural Land	\$32,140			
Residential	1-325	Residential	\$175,000	\$40,000		- I - Garage
Residential	-335	Residential			\$35,000	SFD; not taken
Commercial \$18,000 Residential \$33,287 Agricultural Land \$33,287 Acreage Homesite \$2,000 Acreage Homesite \$35,000 Acreage Homesite \$25,253 Acreage Homesite \$50,000 \$1,082,333 \$320,000 \$1,455,333 \$1,455,333 Contingency \$1,746,400	336	Residential	\$35,000	\$50,000		SFD; mobile;
Residential \$80,000 \$25,000 Agricultural Land \$33,287 \$6,000 Acreage Homesite \$22,957 \$25,000 Acreage Homesite \$25,253 \$25,253 Acreage Homesite \$50,000 \$50,000 Acreage Homesite \$50,000 \$53,000 Acreage Homesite \$50,000 \$53,000 Acreage Homesite \$50,000 \$53,000 Acreage Homesite \$50,000 \$53,000 Acreage Homesite \$1,455,333 \$291,067 Contingency \$1,746,400	=	Commercial			\$18,000	1967 Hwy 81; 81 Auction; damages
Agricultural Land \$33,287 Commercial \$5,000 Acreage Homesite \$22,957 Acreage Homesite \$25,000 Acreage Homesite \$25,253 Acreage Homesite \$50,000 SUBTOTALS \$1,082,333 TOTAL \$291,067 Contingency \$1,746,400	=	Residential	\$80,000	\$25,000		SFD; mobile
Commercial \$5,000 Acreage Homesite \$22,957 Acreage Homesite \$25,000 Acreage Homesite \$50,000 Acreage Homesite \$1,082,333 TOTAL \$1,455,333 Contingency \$291,067 CDANID TOTAL \$1,746,400	3-365	Agricultural Land	\$33,287			11 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Acreage Homesite \$22,957 Acreage Homesite \$35,000 Acreage Homesite \$25,253 Acreage Homesite \$50,000 SUBTOTALS \$1,082,333 \$320,000 TOTAL \$1,455,333 Contingency \$291,067 CDAND TOTAL \$1,746,400	365	Commercial	\$5,000			Hoffman Gate Speciality Fence
Acreage Homesite \$35,000 Acreage Homesite \$25,253 Acreage Homesite \$50,000 SUBTOTALS \$1,082,333 \$320,000 \$53,000 TOTAL \$1,455,333 \$291,067 Contingency \$291,067 \$1,746,400	3-386	Acreage Homesite	\$22,957			0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Acreage Homesite \$25,253 Acreage Homesite \$50,000 SUBTOTALS \$1,082,333 \$320,000 \$53,000 TOTAL \$1,455,333 \$291,067 Contingency \$1,746,400	7-390	Acreage Homesite	\$35,000			Metal Diug. a lailu
Acreage Homesite \$50,000 \$5320,000 \$53,000 SUBTOTALS \$1,082,333 \$1,455,333 TOTAL \$291,067 Contingency \$1,746,400	0-412	Acreage Homesite	\$25,253			المصامة وسات
\$1,082,333 \$320,000 \$53,000 \$1,455,333 \$291,067 \$1,746,400	112	Acreage Homesite	\$50,000			Pipe leffcling & lafta
\$1,455,333 \$291,067 \$1,746,400		O INTOTOLIO	\$4 082 333	\$320,000	\$53,000	
\$291,067		TOTALS	000,400,14	\$1,455,333		
		Contingency		\$291,067		20% OF TOTAL
		GRAND TOTAL		\$1,746,400		

Dana 1 of 1

SEGMENT #3 Station 415-580 125'East

STATION	TYPE	VALUE	RELOCATION	DAMAGES	COMMENTS
115 A2A	A domestife	\$2.000			Nominal take
424-425	Residential	\$32,000		\$40,000	In-ground house; damaged
426-460	Acreage Homesite	\$29,270			
460-470	Acreade Homesite	\$8,608			SFD; 1605 Hwy 81
470-550	Acreage Homesite	\$68,871		\$30,000	Pipe fencing, landscaping; damaged
550-580	Acreage Homesite	\$25,826			
	SUBTOTALS	\$166,575	\$0	\$70,000	
	TOTAL		\$236,575		
	Contingency		\$47,315		20% OF TOTAL
	GRAND TOTAL		\$283,890		

1 30 4 00 1

SEGMENT #4

Station 580-635 15' East & West

STNAMMOO	COMMEN																		
		Nominal take			Nominal take			Nominal take		0/0+1	Norminal take					20% OF TOTAI	20101 10 0/07		1
	DAMAGES													\$0					
	RELOCATION													\$0	\$29 912	1.0,010	\$5,982	\$35,894	
	VALUE	\$2,000	44,000	\$2,410	\$2,000	00017	\$7,931	\$2,000	42,000	\$3,134	\$2,000	10, 10	\$8,437	\$29.912					
	TYPE		Resideritial	Commercial		Resideritian	Commercial	A STATE OF THE STA	Acieage Horrigalic	Acreage Homesite	Donidontial	Deside Itlai	Acreage Homesite	SINTOTALIS	20101000	TOTAL	Contingency	CDAND TOTAL	GRAND OF STATE
	STATION		580-585 East	RRE FOR Eact	1000-000	595-602 East	tach aca cha	002-020 Last	628-635 East	580-593 West	4-1/90 000	293-buo West	600-635 West						

SEGMENT #5 Station 635-740 125' East

COMMENTS				SFD; 1347 Hwy 81				SFD: 1240 Rd. & Hwy 81							20% OF TOT∆I	70.00.00		
DAMAGES												\$0						
RELOCATION				\$40,000				\$25 000	\$20,000			\$65.000	010	\$321,950	000 700	\$64,390	070000	\$380,340
VALUE		\$7,748		\$50,000		\$32 714	+ (1)	000 000	\$120,000	\$46,488	-	\$256 950°	4400,000					
TYPE		Agricultural Land	a la	Residential		Agricultural Land	Ayl Icultul al Laila	:	Residential	Agricultural Land	אלווסמונמו מו במוומ	SINTOTOLIS	SUBICIALS	TOTAI	10101	Contingency	,	GRAND TOTAL
NOITATA	NOUNT	635_611	110-000	645	2	700	100-050		685	0740	000-140							

Dana 1 of 1

Station 740-900 125' East

STATION	TYPE	VALUE	RELOCATION	DAMAGES	COMMENTS
740 844	Acricultural Day	\$89.532			
845	Agricultural Land	\$10,609			Pipe fencing & land
845-885	Agricultural Land	\$34,435			
885	Commercial			\$10,000	Proximity damage
886-900	Agricultural Land	\$12,052			
	SHRTOTALS	\$146.628	\$0	\$10,000	
	TOTAL		\$156,628		
	Contingency		\$31,326		20% OF TOTAL
	GRAND TOTAL	20	\$187,954		

SEGMENT #7A EXISTING

Station 900-1030 900-930 125'East / 930-1030 25' East & West

\$ \$18,365.00 \$ \$18,365.00 \$ \$1,000.00 \$ \$5,000.00 \$ \$5,000.00 \$ \$1,000.00 \$ \$	Precidential \$18,355.00 Agricultural Land \$18,355.00 Agricultural Land \$18,355.00 Sesidential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$1,000.00 \$1,000.00 Residential \$1,000.00 \$1,000.0	ION DAMAGES COMMENIS
Agricultural Land \$14,435.00 Agricultural Land \$18,385.00 Residential \$2,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$1,000.00 Residential \$1,000.00 Residential \$1,000.00 Residential \$10,000.00 Residential \$10,000.00 <td>Agricultural Land \$18,365.00 \$2,000.00 Residential \$2,000.00 \$15,000.00 Residential \$5,000.00 \$15,000.00 Residential \$5,000.00 \$1,000.00 Residential \$5,000.00 \$1,000.00 Residential \$5,000.00 \$1,000.00 Residential \$10,000.00 Residential \$10,0</td> <td></td>	Agricultural Land \$18,365.00 \$2,000.00 Residential \$2,000.00 \$15,000.00 Residential \$5,000.00 \$15,000.00 Residential \$5,000.00 \$1,000.00 Residential \$5,000.00 \$1,000.00 Residential \$5,000.00 \$1,000.00 Residential \$10,000.00 Residential \$10,0	
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Residential \$5,000.00	Residential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$5,000.00 Residential \$10,000.00	Acrage homesite land
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Residential	Residential	טלא ני
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Residential	Residential	SFD
Vacant Land	Vacant Land \$15,000.00 \$12,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$5,000.00 Residential \$10,000.00 Residential \$20,000.00 Commercial \$20,000.00 Contract \$20,000.00 Contract \$20,000.00 Substant \$	טרט מ
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Residential	Residential \$12,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$15,000.00 Residential \$5,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$2,000.00 Residential \$20,000.00 Residential \$20,000.00 Residential \$20,000.00 Commercial \$20,000.00 Commercial \$20,000.00 Commercial \$50,000.00 Commercial \$50,000.00 Commercial \$50,000.00 Contract \$604,560	טדט ו
Residential	Residential \$10,000.00 Residential \$10,000.00 Residential \$15,000.00 Residential \$5,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$2,000.00 Residential \$20,000.00 Residential \$20,000.00 Residential \$20,000.00 Residential \$20,000.00 Commercial \$20,000.00 Contract \$50,000.00 Contract \$50,000.00 Contingency \$100,760 GRAND TOTAL \$604,560	SFD damages
Residential	Residential \$10,000.00 Residential \$15,000.00 Residential \$15,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Vacant Land \$2,000.00 Vacant Land \$2,000.00 Commercial \$20,000.00 Commercial \$500.00 Commercial \$500.00 Commercial \$500.00 Commercial \$600.00 SUBTOTAL \$503.800 Contingency \$100,760	
Residential	Residential \$15,000.00 Residential \$10,000.00 Residential \$5,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Vacant Land \$2,000.00 Vacant Land \$2,000.00 Commercial \$2,000.00 Commercial \$50,000.00 Commercial \$60,000.00 Contingency \$10,000.00 Contingency \$20,000.00 Contingency \$100,000 \$20,000.00 \$20,000.00	
Residential	Residential \$10,000.00 Residential \$5,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Vacant Land \$2,000.00 Vacant Land \$2,000.00 Commercial \$2,000.00 Commercial \$500.00 Commercial \$500.00 Contingency \$100,00 Contingency \$100,00 \$20,00 \$400,00	
Residential	Residential \$5,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Vacant Land \$2,000.00 Vacant Land \$2,000.00 Commercial \$2,000.00 Commercial \$500.00 Commercial \$500.00 Commercial \$500.00 Contingency \$100,00 Contingency \$100,760 Contingency \$100,760	
Residential	Residential Stocours Stocou	
Residential	Residential	1
Commercial	Commercial \$10,000.00 Residential \$10,000.00 Residential \$10,000.00 Vacant Land \$2,000.00 Vacant Land \$2,000.00 Commercial \$5,000.00 Commercial \$6,000.00 TOTAL \$50,000.00 Contingency \$100,760 GRAND TOTAL \$604,560	
Residential	Residential \$10,000.00 Residential \$10,000.00 Vacant Land \$2,000.00 Vacant Land \$2,000.00 Commercial \$2,000.00 SUBTOTALS \$97,800 TOTAL \$503,800 Contingency \$100,760 GRAND TOTAL \$604,560	
Residential \$10,000.00 Vacant Land \$5,000.00 Residential \$2,000.00 Commercial \$2,000.00 Commercial \$50,000.00 SUBTOTALS \$97,800 \$60,000 TOTAL \$503,800 Substance \$500,800	Residential \$10,000.00 Vacant Land \$5,000.00 Residential \$2,000.00 Vacant Land \$2,000.00 Commercial \$6,000.00 SUBTOTALS \$97,800 TOTAL \$503,800 Contingency \$100,760 GRAND TOTAL \$604,560	
Vacant Land \$5,000.00 \$20,000.00 Residential \$2,000.00 \$50,000.00 Commercial \$50,000.00 SUBTOTALS \$97,800 \$0 \$406,000 TOTAL \$503,800 \$100.00	Vacant Land \$5,000.00 \$20,000.00 Residential \$2,000.00 \$50,000.00 Vacant Land \$2,000.00 \$50,000.00 Commercial \$0 \$406,000 TOTAL \$503,800 Contingency \$100,760 GRAND TOTAL \$604,560	
Residential \$20,000.00 Vacant Land \$2,000.00 Commercial \$50,000.00 SUBTOTALS \$97,800 \$60,000 TOTAL \$503,800 SUBTOTALS \$503,800 Continuous \$503,800 Continu	Residential	
Vacant Land \$2,000.00 Commercial \$50,000.00 SUBTOTALS \$97,800 \$0 \$406,000 TOTAL \$503,800 \$100.760	Vacant Land \$2,000.00 \$50,000.00 Commercial \$60,000.00 SUBTOTALS \$97,800 \$0 \$406,000 TOTAL \$503,800 Contingency \$100,760 GRAND TOTAL \$604,560	
Commercial \$50,000.00 SUBTOTALS \$97,800 \$0 \$406,000 TOTAL \$503,800 \$100,760	Commercial \$50,000.00 SUBTOTALS \$97,800 \$0 \$406,000 TOTAL \$503,800 \$406,000 Contingency \$100,760 \$604,560	
\$97,800 \$0 \$406,000 \$503,800 \$400,760	\$97,800 \$0 \$406,000 \$503,800 \$100,760 \$604,560	
\$503,800	\$503,800 \$100,760 \$604,560	\$406,000
\$100.760	\$100,760	
00.100.100		0 20% OF TOTAL

SEGMENT #7(B) ALTERNATE

Station 930-1030

900-930 125'East / 930-1030 75' East & West

STATION	TYPE	VALUE	RELOCATION	DAMAGES	COMMENTS
900-930	Agriculture Land	\$3,450			
930-950	Agriculture Land	\$2,750			
950-1020 East	Agriculture Land	\$19,300		\$50,000	Land severance damage
1020 East	Commercial	\$750,000	\$75,000		Bank damages to parking and landscaping
1020 West	Metal Barn			\$5,000	Metal Barn
1025 East	Commercial			\$20,000	Williams Discount Foods Damages to parking
1025 West	Commercial	\$150,000	\$40,000	\$30,000	Mary Lou's Café Damages to parking
1030 West	Commercial	\$300,000	\$50,000	\$50,000	Conoco Gas Damages to parking and canopy
	SUBTOTALS	\$1,225,500	\$165,000	\$155,000	
	TOTAL		\$1,545,500		
	Contingency		\$245,100		20% OF TOTAL
	GRAND TOTAL		\$1,790,600		

. .

SEG'----#8 Station 1030-10? East West

1935 TATION TYPE VALUE RELOCATION DAMAGES Present RAN Commercial Sections Sections New Actions Commercial Sections Sections New Actions Conference Lup Cafe Biogas, 15 strongs units, parking damage Viv. Contractional Commercial Sections SECTION Sections SECTION Sections SECTION Sections SECTION Sections SECTION Sections SECTION SE						STNEEMMOO
National Commercial/Resid. \$2,000 S5,000	STATION	TYPE	VALUE	KELUCATION	DAINIAGES	
Commercial/Resid, \$2,000 \$15,000	030-1035					Present RW
Residential	035-1040	Commercial/Resid.	\$2,000			Mixed use
NTERSECTION: \$80,000 \$15,000	West	Residential			\$5,000	Metal triplex; parking damage
NYTERSECTION:	West	Commercial			\$5,000	Minco Storage Bldgs.; 15 storage units, parking damage
Commercial \$80,000 \$10,000	040-1042	INTERSECTION:				
Commercial \$250,000 \$10,000	W Corner	Commercial	\$80,000	\$15,000		Coffee Cup Café
Commercial \$140,000 \$10,000	/F Corner	Commercial	\$250,000	\$40,000		Senior Citizens Bldg.
Commercial S45,000	W Corner	Commercial	\$140,000	\$10,000		Blue Bldg; remodel in progress
Commercial	/E Corner	Commercial	\$45,000			Vacant gas station, value included to remove co.
Commercial	042-1050	Commercial/Resid.	\$2,000			Mixed use
Commercial	1050	Commercial			\$10,000	Willico File Department, partment activities
Residential	050-1080				05 000	Ron's Welding
Residential	East	Commercial			\$3,000	Hwy 81 & Cloud
Residential	East	Residential			\$10,000	Carport damaged
Residential	East	Residential	000	425,000	0000	SED: 208 Ponotoc
Commercial Commercial Commercial Commercial Commercial Str0000 Fesidential Residential Str0000 Fesidential Residential Str0000 Fesidential Str0000 Fesidential Str0000 Fesidential Str0000 Str00	East	Residential	000,084	000,000	\$20,000	Grea's Tube & Lube parking lot damaged
Residential	West	Commercial			\$7,000	Redbud Cottage parlking lot damaged
Residential	East	Colfillerual			\$10,000	SFD; 706 Hwy 81; proximity damages
Residential	East	Pesidential			\$10,000	SFD; 410 Hwy 81; proximity damages
Residential	East	Dooidonfial			\$10,000	SFD; 402 Hwy 81; proximity damages
Residential	East	Decidential			\$10,000	SFD; proximity damages
Residential	Fast	Residential			\$10,000	SFD; 508 Hwy 81; proximity damages
Residential	Fasi	Residential			\$6,000	SFD; 208 Hwy 81; proximity damages
Commercial \$30,000 \$15,000 Residential \$100,000 \$12,000 Residential \$100,000 \$25,000 \$12,000 Residential \$100,000 \$12,000 Residential \$12,000 \$125,000 Residential \$12,00	Fact	Residential			\$6,000	SFD; 206 Hwy 81; proximity damages
Residential \$12,000	Fast	Commercial	\$30,000	\$15,000		Don's Bar-b-Que
Residential	West	Residential			\$12,000	SFD
Commercial	West	Residential			\$12,000	SFU
Residential \$100,000 \$25,000 \$12,000 Residential \$6,000 Residential \$6,000 Residential \$50,000 Res	West	Commercial			\$35,000	Church entrance
Residential	West	Residential	\$100,000	\$25,000	000	OFD.
Residential	West	Residential			\$12,000	SED, proximity damages
Residential	West	Residential			\$12,000	SED: provimity damages
Residential	West	Residential	-		\$12,000	SED: proximity damages
Residential	West	Residential			\$12,000	SED: proximity damages
Residential	West	Residential			\$12,000	SFD: proximity damages
Residential	West	Residential			\$12,000	SFD: proximity damages
Residential	West	Residential			\$12,000	SFD: proximity damages
Residential	West	Residential			\$12,000	SFD: proximity damages
Residential	West	Residential			\$12,000	SFD; proximity damages
Residential	West	Kesidential			\$6,000	SFD; proximity damages
Commercial	West	Kesidential			\$6,000	SFD; 607 Hwy 81
Commercial \$20,000	West	Kesidenilai			\$60,000	Shamrock Gas Station
t Residential \$25,000 Residential \$12,000 Residential \$10,000 Residential \$6,000	East	Commercial			\$20,000	R&R Insurance; 2 signs, parking, pipe fence
Residential	East	Commercial			\$25,000	SFD; 609 Hwy 81
Residential \$10,000 Residential \$6,000 Desidential \$6,000	West	Residential			\$12,000	SFD; 611 Hwy 81
Nestreamen	West	Posidential			\$10,000	SFD; 613 Hwy 81
Se,000	West	Desidential			\$6,000	SFD; 615 Hwy 81
	West	Docidential			\$6,000	SFD; 617 Hwy 81

SEG'----#8 Station 1030-10! East West

													T									
COMMENTS	SFD & landscaping; underground house	SFD: 706 Hwv 81; proximity damages		Kall Tencing & Sign	SFD; proximity damages	SFD; 731 Hwy 81	SFD; 723 Hwy 81; proximity damages	SFD; damages	Bill Johnson Park		SFD: 781 Hwy 81; damages	0 TO 101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SFU; /85 Hwy 81, damages	SFD; 797 Hwy 81; rail fencing	SFD; 825 & 817 Hwy 81; \$5,000 ea; landcaping	I PED: 831 Hww 81. proximity damages	OLD, COLLINY OI, PICKINING SERVINGS	Present K/W			20% OF TOTAL	
DAMAGES	\$10,000	\$5,000	000,00	\$4,000	\$6,000		\$17,000	\$4,000	\$4,000		\$12,000	000,10	\$15,000	\$15,000	\$10,000	000 070	\$12,000		\$578,000			
RELOCATION						\$25,000													\$165,000	\$1,562,000	\$312,400	
VALUE						\$80,000													\$819,000			
TYPE		עבאותמווומו	Kesidential	Residential	Residential	Residential	Residential	Docidential	Commercial		:	Kesidential	Residential	Decidential	loitable of	Residential	Residential		SUBTOTALS	TOTAL	Confindancy	Collegano
NOITATA		West	West	East	Fact	Most	West	1001	4000 East	1000 Edst	0601-0001	West	West	Woof	Wast	West	West	1090-1092				

SL-SMENT #9

Station 1092-1215 1092-1120 125' West / 1120-1215 125' East

STATION	TYPE	VALUE	RELOCATION DAMAGES	DAMAGES	COMMENTS
1092-1120 West	1092-1120 West Adricultural land	\$56,244			Acreage homesite
1420-1245 Fact	Commercial	\$190.829			Speciality fence at Hwy 37 not taken
12010171-0711					
	SIBTOTALS	\$247.073	\$0	\$0	
	TOTAL		\$247,073		
	Contingency		\$49,415		20% OF TOTAL
(3	GRAND TOTAL		\$296,488		

SEGMENT # 10

Station 1215-1245 125' East

			1									
COMMENTS								20% OF TOTA	20,001			
DAMAGES	- 1			0.6	20							
PEI OCATION	NELOCATION				0.5	10: :00	\$34,435	10000	26,887		\$41 322	1106
2111077	VALUE	\$34,435			\$34 435							
1	TYPE	Agricultural land	The locality of the		SIATOTALIS	SOBIOINE	TOTAL	12101	Contingency	Collegalley	TO HOH GIVE	GRANDIO
	STATION	404E 404E	C+71-C171									

Dane 1 of 1

SECIMENT #11

OTIVIDADA (C)	COMMENTS						SFU; land only	Dairy Mart	Gas station	SFD;proximiy damage	SFD;proximiy damage	SFD;proximiy damage	SFD:proximiv damage	OED:specyimiy damade	OFD, PLOVILLING VALUE & CO.	SFD;proximly damage	SFD;proximiy damage	SFD:proximiv damade		SFD, proximily damage	SFD;proximiy damage			JOB OF TOTAL	10.07 TO 0.02		
	DAMAGES									\$15,000	\$10,000	\$15,000	\$10,000	000,000	\$10,000	\$10,000	\$10,000	\$10,000	000,0	\$15,000	\$10,000	\$115,000					
	RELOCATION		000	\$10,000,00				\$5,000	\$10,000													\$30,000	\$701 220	4101,440	\$158,244	\$949,464	
	VALUE	\$83 Q36 OO		\$250,000.00	\$65,284.00		\$12,000	\$35,000	\$200,000													\$646 220	2000				
	TYPE		Agricultural caria	Residential	Agricultural Land	INTERSECTION:	Residential	Commercial	Commercial	Residential	Docidential	Decidential	Residential	Residential	Residential	Docidential	Desidential	Residerillar	Residential	Residential	Residential	SINTOTOLIS	30010175	TOTAL	Contingency	GRAND TOTAL	
	STATION		1245-1290	1290-1295	1295-1330 East	1330-1346	1330	1335	1340	13/5	1040	1540-151	:	-		=	=	:	2	0.0	=						

SE_.MENT #12 Station 1370-1500 125' East

STATION	TYPE	VALUE	RELOCATION DAMAGES	DAMAGES	COMMENTS
1370-1420	Agricultural land	\$93,262			
1420	Residential			\$15,000	SFD; proximity damages
1420-1500	Agricultural land	\$149,219			
	SUBTOTALS	\$242,481	\$0	\$15,000	
	TOTAL		\$257,481		
	Contingency		\$51,496		20% OF TOTAL
	GRAND TOTAL		\$308,977		



TRANSMITTAL

To:

Ron Weltzheimer and Diane Abernathy

From:

Annette Owens, Cinnabar Service Company

Date:

August 3, 2006

Subject: US-81 Corridor Study, C-1 and C-2

NOTE: The following land values were used in the estimates

\$7,000/acre 0 - 35Station \$5,000/acre 35-90 Station \$4,500/acre Station 90-150 \$4,000/acre Station 150-230 \$3,000/acre Station 230-265 \$6,000/acre Station 265-360

Station 0-145 125' East & West

					STINDAMOO
STATION	TYPE	VALUE	RELOCATION	DAMAGES	COMMENTS
0 25 Eact					Present R/W
0.40 West	Anricultural Land	\$20.870			
Of Weef	Commercial	\$1.000			Harry's Repair Sign
10-25 West	Mixed Use	\$30,131		\$25,000	Masonry Electronic Gate damage
25-45 E & W	Agricultural Land	\$68,880			
45 East	Residential	\$250,000	\$50,000		SFD & shop bldg
45-50 E & W	Agricultural Land	\$14,348			
50-90 E & W	Agricultural Land	\$114,784			
90-145 E & W	Agricultural Land	\$142,045			·
120 East	Residential	\$500,000	\$50,000		SFU
	SUBTOTALS	\$1,142,058	\$100,000	\$25,000	
	TOTAL		\$1,267,058		I de la companya de l
	Contingency		\$253,412		20% OF LOTAL
	GRAND TOTAL		\$1,520,470		

Station 145-360 125' East & West

A CIT A FO	TVDE	VALUE	RELOCATION	DAMAGES	COMMENTS
SIAIION	711				
145-150	Agricultural Land	\$12,913			
001-04-	יסוב וכדיי ון יייייר א	\$183 655			
150-230	Agricultul al Lailo	000,000			
221	Residential			\$50,000	SFD;damage
. 230-265	Apricultural Land	\$60,262			
001	- ciorommo C	\$475,000	\$50,000		
230	COLLIE	0,0			
230	Residential			\$40,000	SFD; damage
265 205	Anricultural Land	\$103,305			
202-202				\$50,000	SFD; damages
295	Kesiderinal				
295-334	Agricultural Land	\$123,967		B	
				\$50,000	Land severance damge
331-355	Mixed Use	\$82,040		0115 DDD	Commercial land severance damage
355-360	Commercial			000,0114	
				000	
	SUBTOTALS	\$1,041,747	\$50,000	\$305,000	
	TOTAL		\$1,396,747		20% OF TOTA!
	Contingency		\$279,349		
	GRAND TOTAL		\$1,676,096		

GRAND TOTAL

CNB, Inc. 4608 West Canyon Road Guthrie, Oklahoma 73044-8786 Phone (405) 260-1290

July 7, 2006

Mr. Ronald G. Weltzheimer, Professional Engineer The Benham Companies, LLC 9400 North Broadway Oklahoma City, Oklahoma 73114

Dear Mr. Weltzheimer:

RE: U. S. Highway 81 SUBCONTRACT CONSULTING AGREEMENT Work Authorization No. 1, Signed June 19, 2006

The estimated costs to rearrange utility lines along U.S. Highway 81 from the south side of Chickasha and extending northerly to the north edge of Union City are attached. The estimates are made from available information and are broken into the segments you presented on the strip mosaic maps.

The costs were determined by making a site inspection and using experience costs established by the Oklahoma Department of Transportation. I find the route to be 30 miles in length; this includes the extra segment for the Minco realignment.

If additional information is needed, please feel free to call me at 405-260-1290.

Sincerely,

Charles N Blatt
Utilities Specialist

Attachments

Sent-1/19/00

CNB, Inc. 4608 West Canyon Road Guthrie, Oklahoma 73044-8786 Phone (405) 260-1290

July 13, 2006

Mr. Ronald G. Weltzheimer, Professional Engineer The Benham Companies, LLC 9400 North Broadway Oklahoma City, Oklahoma 73114

Dear Mr. Weltzheimer:

RE: U. S. Highway 81 SUBCONTRACT CONSULTING AGREEMENT Work Authorization No. 1, Signed June 19, 2006

Attached are the revisions recently requested by Ms. Diane Abernathy for the Chickasha By-Pass. The By-Pass is broken into two segments: One beginning at U.S. Highway 81 south of Chickasha and extending northwesterly to Norge Road; the second segment begins at Norge Road and extends north and northeasterly to U.S. Highway 62. The reference to the Minco Alternate Route has been corrected.

If additional information is needed, please feel free to call me at 405-260-1290.

Sincerely,

Charles N Blatt Utilities Specialist

han Blatt

Attachments

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

<u>Segment No. 1</u> U. S. 62 to E/W 1320

	Total Cost	Private Costs	Pu	blic Costs
Electric Utilities	\$ 125,250.00	\$ 95,250.00	\$	30,000.00
Pipeline Utilities	23,281.00	23,281.00	As we're representation of the sense of the State Control of the State C	
Telephone Utilities	48,750.00			48,750.00
Water Utilities	19,531.00	19,531.00		
TOTAL COST-Segment #1	\$ 216,812.00	\$ 138,062.00	\$	78,750.00

Segment No. 2 E/W 1320 to 1290

Total Cost	Private Costs	Public Costs
\$ 117,750.00	\$ 117,750.00	\$
656,719.00	656,719.00	
296,250.00		296,250.00
250,000.00	250,000.00	
\$ 1,320,719.00	\$ 1,024,469.00	\$ 296,250.00
	\$ 117,750.00 656,719.00 296,250.00 250,000.00	\$ 117,750.00 \$ 117,750.00 656,719.00 656,719.00 296,250.00 250,000.00 250,000.00

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

Segment No. 3 E/W 1290 to 1260

		Total Cost	and stage, the productions are shall delicate to the construction of the administration of	Private Costs	Pu	blic Costs
Electric Utilities	\$	78,500.00	\$	39,250.00	\$	39,250.00
Pipeline Utilities		156,250.00		156,250.00		
Telephone Utilities	SECOND SECONDARY OUR SECONDS	216,250.00				216,250.00
Water Utilities		69,063.00		69,063.00		
TOTAL COST-Segment #3	\$	520,063.00	\$	264,563.00	\$	255,500.00

<u>Segment No. 4</u> E/W 1260 to 1250

		Total Cost		Private Costs	Pu	blic Costs
Electric Utilities	\$	55,000.00	\$	9,500.00	\$	45,500.00
Pipeline Utilities	to f of frame and order or delivery from	143,125.00		56,875.00		86,250.00
Telephone Utilities	***************************************	93,750.00	THE PERSON NAMED IN COLUMN TWO IS NOT THE			93,750.00
Water Utilities		54,063.00		54,063.00	THE RESERVE OF THE PERSON OF T	M A world & Responding games in State A statement Pip 9 (files from the state of London States)
TOTAL COST-Segment #4	\$	345,938.00	\$	120,438.00	\$	225,500.00

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

<u>Segment No. 5</u> E/W 1250 to 1230

	Total Cost			Private Costs	Public Costs	
Electric Utilities	\$	57,000.00	\$	28,500.00	\$	28,500.00
Pipeline Utilities	فاستفاضه ميدهانيا	258,750.00	and the state of t	258,750.00	Anna ann a ghùs a Aireadh ain an Air ann an Aireann ann an Aireann ann an	
Telephone Utilities		187,500.00	en Augustion – All English and American American American (American American America	31,250.00		156,250.00
Water Utilities		143,000.00		143,000.00		
TOTAL COST-Segment #5	\$	646,250.00	\$	461,500.00	\$	184,750.00

Segment No. 6 E/W 1230 to 1200

	Total Cost		and the second s	Private Costs		Public Costs	
Electric Utilities	\$	32,250.00	\$	15,500.00	\$	16,750.00	
Pipeline Utilities	AND THE PERSON NAMED OF TH	226,875.00	و من المناسب في المناسب	226,875.00	angenga og amerijdede mengt ämberem symmetriker	d benegatif a terminal waying and injury constructions are an expensional to the an expensional terminal and the second and th	
Telephone Utilities		187,500.00	And the second section of the second sections of the second			187,500.00	
Water Utilities		3,438.00		3,438.00			
TOTAL COST-Segment #6	\$	450,063.00	\$	245,813.00	\$	204,250.00	

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

Segment No. 7 E/W 1200 to 1170.75

	Total Cost Private Costs		Public Costs			
Electric Utilities	\$	66,500.00	\$	47,500.00	\$	19,000.00
Pipeline Utilities		120,000.00	weekler the second property and second and the seco	22,500.00		97,500.00
Telephone Utilities		200,000.00		12,500.00		187,500.00
Water Utilities		167,500.00		167,500.00		
TOTAL COST-Segment #7	\$	554,000.00	\$	250,000.00	\$	304,000.00

<u>Segment No. 8</u> E/W 1170.75 to 1160.5

	Total Cost			Private Costs	Public Costs		
Electric Utilities	\$	19,000.00	\$		\$	19,000.00	
Pipeline Utilities		112,500.00		84,375.00		28,125.00	
Telephone Utilities		18,750.00	d pergenangan aman dal propins (d' fortragge respectivo).			18,750.00	
Water Utilities		28,125.00		28,125.00			
TOTAL COST-Segment #8	\$	178,375.00	\$	112,500.00	\$	65,875.00	

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

<u>Segment No. 9</u> E/W 1160.5 to 1140

	Total Cost		The second of the second of the second secon	Private Costs		Public Costs		
Electric Utilities	\$	349,500.00	\$	264,750.00	\$	84,750.00		
Pipeline Utilities		32,656.00	per annual i manifestanti (Prilimati Print Pri 1912)	32,656.00	THE REAL PROPERTY OF THE PERSON OF THE PERSO	and the second s		
Telephone Utilities		218,750.00	APPENDING THE SECOND AND THE SECOND S	93,750.00	gy Pyranius na chinas a garmadra PPA, anna a china	125,000.00		
Water Utilities		26,250.00		26,250.00				
TOTAL COST-Segment #9	\$	627,156.00	\$	417,406.00	\$	209,750.00		

Segment No. 11 E/W 1130.5 to 1110.5

	and here and a series of the s	Total Cost	age argument format of the companyons of the object of the companyons of the company	Private Costs	P	ublic Costs
Electric Utilities	\$	40,750.00	\$	10,750.00	\$	30,000.00
Pipeline Utilities		23,281.00		23,281.00	аленняцы фасыля пусковностанович	navna visiani Pa I malii iniidii iniga Palee aya ii I Maa wa kalee ahaa wa w
Telephone Utilities		250,000.00	vined, as the I passifying from the first part and the first have been received			250,000.00
Water Utilities		611,563.00	*************************************	611,563.00	*************************************	
TOTAL COST-Segment #11	\$	925,594.00	\$	645,594.00	\$	280,000.00

Mr. Ken Brown (Telephone #234-2264), ACOG, has GPS mapping for Union City.

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

<u>Chickasha By-Pass</u> (U.S. Highway 81 Northwesterly to Norge Road)

	Total Cost		Private Costs	Public Costs		
Electric Utilities	\$ 259,000.00	\$	230,500.00	\$	28,500.00	
Pipeline Utilities	185,000.00		175,750.00	adring de tropin german, die progress op "toe deutschiederste meiste blad	9,250.00	
Telephone Utilities	31,875.00			and the first an	31,875.00	
Water Utilities	60,938.00		60,938.00			
TOTAL COST-This Segment	\$ 536,813.00	Ş	467,188.00	\$	69,625.00	

<u>Chickasha By-Pass</u> (Norge Road Northeasterly to U.S. Highway 62)

	Total Cost		Private Costs	Public Costs		
Electric Utilities	\$ 294,400.00	\$	211,800.00	\$	82,600.00	
Pipeline Utilities	402,750.00	ACCOUNT OF THE PERSON OF THE P	402,750.00			
Telephone Utilities	12,188.00	gamentalisma kom kritina kom manarira filid ke f			12,188.00	
Water Utilities	438,437.00		438,437.00			
CATV	750.00				750.00	
TOTAL COST-This Segment	\$1,148,525.00	\$	1,052,987.00	\$	95,538 .00	

Estimated Utility Rearrangement Costs U.S. Highway 81 from South of Chickasha North To Union City

Minco Alternate

	Total Cost			Private Costs	Public Costs	
Electric Utilities	\$	47,500.00	\$	47,500.00	\$	
Telephone Utilities	senergeriori il armoniu, empir il pagi-errogramo e	27,500.00	Nessente e constant avec com t	12,500.00		15,000.00
Water Utilities		25,125.00		25,125.00		
TOTAL COST-Minco	\$	100,125.00	\$	85,125.00	\$	15,000.00



DATE:

October 4, 2006

TO:

Files and Attendees

FROM:

Planning and Research Division Engineer

SUBJECT: US 81 Corridor Study – ODOT Meeting Minutes

On Monday, October 2, 2006, a meeting was held to discuss the recent written public comments received on the US 81 Corridor Study project. In attendance were:

Bob Rose

ODOT Division VII

Joe Khatib

ODOT Planning

Ronda Lindsay

ODOT Project Management

Siv Sundarem

ODOT Planning

Eduardo Elder

ODOT Roadway

Diane Abernathy

Benham

Terry McFall

Benham

Ron Weltzheimer

Benham

- 1. Diane A. explained the recent written comments received from the public, and that the meeting was to determine what tasks were necessary as a result of the comments.
- 2. Bob R. mentioned that Mr. Thomas (citizen) requested that letters be sent to all property owners during such a study. Joe K. indicated that ODOT's current practice of notifying all property owners by mail of all NEPA clearances and corridor studies was implemented in 2005 and, because the US 81 Corridor Study began prior to that, notification to all property owners was not made.
- 3. Joe K. suggested that the written comments received from the Minco and the Chickasha public meetings be combined together in the report.
- 4. It was determined that written responses for Dawn Sullivan's signature will be prepared to the following citizens:
 - GW III and Bertha Thomas
 - Cary DeHart
 - Marilyn Wagstaff Moss and Lawrence Betche

The responses will provide a brief history of the Corridor Study, including the North Bypass evaluation and why that bypass was eliminated. The responses will address each of the commenter's points, and will explain that all citizens on the mailing list and all property owners will be notified during the NEPA clearance phase. All public inputs will be considered along with other environmental considerations during the NEPA clearance phase to select the final alignment.

- 5. It was agreed that no additional scope should be added to the Corridor Study as a result of recent public comment, and that preparation of the Corridor Study summary report should commence.
- 6. Bob R. requested that Benham prepare a summary of all the written public comments, clarifying those in support of and opposing the Chickasha Bypass. Bob will review this information and reconsider whether purchase of the Chickasha Bypass ROW is a "High" priority.
- 7. It was discussed that the NEPA process will likely evaluate additional areas adjacent and to the west of the area studied for the Western Bypass during the Corridor Study.



US-81 CORRIDOR STUDY

Public Comments Summary

US-81Grady and Canadian Counties

EC No. 899 J/C 21603(04)



October 2006

MEETING AGENDA US 81 CORRIDOR STUDY - PUBLIC COMMENT SUMMARY **OCTOBER 2, 2006**

- 1. Recent Public Comments
 - Thomas Letter, 9/19/06
 - Thomas Letter, 9/24/06DeHart Letter, 9/27/06
- 2. ODOT Response
- 3. Additional Corridor Study Tasks Required?
- 4. Final Corridor Study Report Format

G. W. Thomas III and Bertha Thomas P. O. Box 1673 Chickasha, OK 73023-1673 405-224-5784 (home) 405-313-7040 (cell)

September 19, 2006

The Benham Companies, LLC 9400 North Broadway, Suite 300 Oklahoma City, OK 73114-7401

Re:

US 81 Corridor Study

Gentlemen:

Regarding the proposed western bypass for the referenced project, we wish to express the following:

The Bypass Alt 4 Route cuts across land south of Country Club Rd. on either side of the BNSF Railroad which has been used in my family's cattle ranching operations for three generations. There is a possible interchange proposed on these lands as well.

As cattle producers, we have to efficiently maximize our land use. The Bypass Alt 4 Route and possible interchange shown on Highway 92 would have a definite adverse impact on our ability to efficiently continue our cattle operations in this area. Consequently, our livelihood is affected.

While the Bypass Alt 3 Route still cuts across our land, it is not quite as intrusive for us as Alt 4 especially if the interchange could be relocated. Therefore, the negative effect on our cattle operations is less severe.

We recognize our evolving transportation industry is crucial in the efficient movement of people and goods in our society and are hopeful an Alternative Route can be recommended which will be compatible with the needs of all concerned.

Thank you.

Sincerely,

G. W. Thomas III

Cc: Refer to attached

Page two

The Benham Companies, LLC September 19, 2006

Distribution:

The Benham Companies, LLC

Diane Abernathy Aruna Mathuranayagam Ronald Weltzheimer Larry Wicks

Oklahoma Dept. of Transportation

Terry Angier Sandra Arnold EduardoElder Laila Fosse Tim Gatz **Kurt Harms** John Hartley Joe Khatib Ronda Lindsay Craig Moody Brenda Perry Larry Reser **Bob Rose Bob Rusch** Casey Shell Harold Smart **David Streb** Dawn Sullivan

G. W. Thomas III and Bertha Thomas 4000 S. Highway 92 Chickasha, OK 73018 405-224-5784

September 24, 2006

Refer to Distribution List Attached

Re: U.S.-81 Corridor Study

To All Parties Addressed:

After careful consideration, we must advise we are not in favor of the proposed bypass which has been included as part of the U.S. Highway 81 Corridor Study. As previously expressed, this bypass and proposed interchange would have a significant adverse effect on our cattle ranching operation. We would have approximately 600 acres of grazing land affected – many of which would be lost to the bypass. In addition to the loss of grazing land, we would suffer an associated loss of income over the remainder of our lives and incur substantial expense in restructuring the cattle operation.

Also, as citizens concerned about the overall proposed project, we wish to make the following comments:

• It is evident improvements are needed within the U.S. 81 Corridor being studied. However, it is difficult to see why so much emphasis is being placed on the proposed bypass when other viable options exist. For example, an interest has been expressed by several community leaders that a bypass on the north side on Chickasha is preferred. Their suggestion, which we understand was presented at an ODOT public meeting, was apparently not considered.

If the push for the west bypass is because ODOT purchased a small right-of-way many years ago, it may be better to recognize the plans made at that time are not in today's best interest. ODOT's ownership interest could be sold and other options considered.

- Traffic from Highways 19, 39 and 62, in all likelihood, would not be utilizing the bypass.
- Most Chickasha businesses are located on Highway 81 or adjacent thereto. Customers and suppliers would still be required to use the existing route for access.

 A population growth within the Chickasha area is not apparent unless additional industries, businesses, etc. are established. According to the U. S. Census Bureau, a population of 14,812 was reported for Chickasha in 1995. For 2000, 15,850 was reported. And, today's population is shown at 16,370.

The following information is taken from ODOT's 2005 – 2030 Statewide Intermodal Transportation Plan which was approved by the Transportation Commission on December 5, 2005:

- For 2003, truck percentage of average daily traffic in Grady County was reported to be minimal compared to other areas of the state.
- According to the 2003 Highway Needs Study Data, ODOT's Division 7, which includes Caddo, Grady, Comanche, Cotton, Stephens, Murray, Jefferson, Carter, and Love Counties reported there were 450.18 miles (31.8%) in poor condition; i.e., requiring attention now. There were 607.92 miles (43.0%) in fair condition; i.e., requiring attention in 1-5 years and there were 355.63 miles (25.2%) in good condition; i.e., requiring attention in 6 or more years. Majority of Grady County highways were shown to be in fair or good condition.
- For all ODOT Divisions combined, 35.3% of highways were classified as being in poor surface condition 36.7% in fair surface condition and 28.0% in good surface condition. In 2003, ODOT identified that over two-thirds of the roads in the State Highway System will need surface replacement by 2008. Many of the major roadways leading into the state's two largest metropolitan areas, Oklahoma City and Tulsa, have poor surface conditions.
- Roads in poor surface condition accelerate the depreciation of vehicles and the
 need for repairs because the stress on the vehicle increases in proportion to the
 level of roughness of the pavement surface. Tire wear and fuel consumption also
 increase because there is less efficient transfer of power to the drive train and
 additional friction between the road and the tires. Roads in poor surface condition
 may also result in slower driving speeds and increased traffic congestion, which
 increases travel time and associated labor costs.
- Surveys conducted include responses such as: (a) Existing highway system should be properly maintained before considering new projects. (b) Majority of Oklahomans believe the statewide transportation system has become somewhat worse. (c) Utilize the routing of funded government projects by managing the overall plan, not unnecessary bypasses.
- According to an analysis of the 2002 Federal Highway Administration National Bridge Inventory, Oklahoma leads the nation in the percentage of its bridges rated structurally deficient.

- 60.7% of Oklahoma's on-system bridges are either structurally deficient or functionally obsolete. Of the off-system bridges, 41.2% are either structurally deficient or functionally obsolete.
- As of October 2004, 1,082 structurally deficient and 547 functionally obsolete onsystem bridges exist throughout the State.
- Also, of the 1,629 structurally deficient and functionally obsolete on-system bridges in the State, over 100 are within the Oklahoma City Metro Area and over 70 are within the City of Tulsa Metro Area. Oklahoma City and Tulsa are regional freight distribution centers within Oklahoma.
- Heavy trucks are often forced to use alternate routes or detours to bypass these structurally deficient bridges. This may slow the delivery of freight and increase fuel and labor costs.
- Functionally obsolete bridges no longer meet current highway design standards and reduce traffic safety. Narrow roadways make it difficult for drivers to safely maneuver in emergency and non-emergency situations because there is not enough room.
- Only 24 of the 77 counties within Oklahoma do not contain load posted bridges. As a result of load posted bridges, trucking companies must determine the axle configuration and maximum truck weight before a route can be planned for a specific destination. Multiple destinations compound the process. This may slow delivery of freight as vehicles make detours around load posted bridges or take alternate and less direct routes. This results in inefficiency and higher fuel, vehicle maintenance, and labor costs. As more and more bridges become structurally deficient, more and more of them will become load posted. The cost of freight movement on the roadways within the state will increase accordingly.
- Inadequate maintenance of existing infrastructure inadequate bridges and Oklahoma's aged bridges relate to long-deferred maintenance and the fact that the bridge's original design standards do not accommodate current heavy truck needs.
- Highway condition problems affect every part of our State. Surface replacement, repairs, etc. That work costs money – its time to give serious consideration to significant, consistent rehabilitation efforts before the problem gets totally out of hand. Local roads are fair – not getting any better.

As ODOT has stated in their 2005-2030 Statewide Intermodal Transportation Plan, the current condition of the Oklahoma Highway System is in great need of attention. Without adequate funding, the roadways and bridges in Oklahoma will continue to deteriorate faster than they can be repaired.

We strongly believe the priority for ODOT should be in taking care of the inadequacies identified. Perhaps by taking care of our existing highway system and bridges, the efficiency of the overall highway system would improve - alternate routes would not be a consideration which might alleviate congestion, stops, etc. in towns - and, there would be less risk to the safety of our Oklahoma citizens and others using our highway system.

Thank you.

Sincerely,

G. W. Thomas III and Bertha Thomas

Distribution List:

Senator Ron Justice
Oklahoma State Capitol
2300 N. Lincoln – Room 533
Oklahoma City, OK 73105

Representative Susan Winchester Oklahoma State Capitol 2300 N. Lincoln – Room 411 Oklahoma City, OK 73105

Representative Phil Richardson Oklahoma State Capitol 2300 N. Lincoln – Room 537B Oklahoma City, OK 73105

Mr. Gary Ridley
Director
Oklahoma Department of Transportation
200 N. E. 21st St.
Oklahoma City, OK 73105

Mr. Bob Rose Division Engineer Oklahoma Department of Transportation P. O. Box 460 Duncan, OK 73533

Mr. Dan B. Overland Chairman OK Transportation Commission 1 West Main Earlsboro, OK 74840

Mr. James H. Dunegan Vice-Chairman OK Transportation Commission P. O. Box 425 Calera, OK 74730

Mr. Larry Shelton City Manager 117 N. 4th St. Chickasha, OK 73018 Mr. Carlisle Mabrey III, Member OK Transportation Commission P. O. Box 1117 Okmulgee, OK 74447-1117

Mr. Jackie R. Cooper, Member OK Transportation Commission 6806 Grand Boulevard Oklahoma City, OK 73116

Mr. Loyd Benson, Member OK Transportation Commission P. O. Box 486 Frederick, OK 73542

Mr. Bruce Benbrook, Member OK Transportation Commission P. O. Box 1008 Woodward, OK 73802

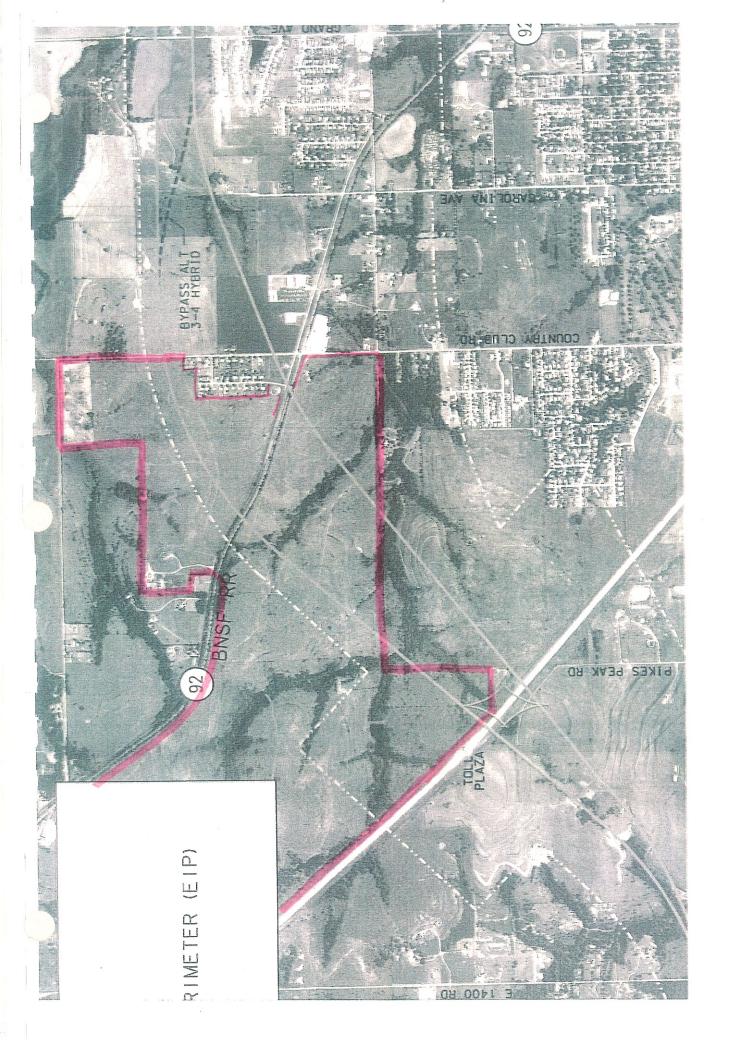
Mr. Bradley W. Burgess, Member OK Transportation Commission 21 NW 4th St., Suite 201 Lawton, OK 73505

Mr. Guy Berry, Member OK Transportation Commission P. O. Box 1408 Sapulpa, OK 74067

Mr. Ronald G. Weltzheimer, P.E. Senior Project Manager
The Benham Companies, LLC
9400 N. Broadway, Suite 300
Oklahoma City, OK 73114

Ms. Ronda Lindsay Project Mgr., Division 7 Oklahoma Dept. of Transportation 200 N. E. 21st St. Oklahoma City, OK 73105

Mr. Greg Elliott, Mayor City Mayor 117 N. 4th St. Chickasha, OK 73018



September 27, 2006

Mr. Weltzheimer, P.E. Senior Project Manager The Benham Companies, LLC 9400 N. Broadway, Suite 300 Oklahoma City, OK 73114 Cary and BJ DeHart 3210 West Idaho Chickasha, OK 73018 405-224-1554 Work 405-224-1092 Home 405-370-6082 Cell cdehart@cmswillowbrook.com email

Re: U.S. 81 at Chickasha

Mr. Weltzheimer,

I attended the September 7th public meeting about Highway 81 at Grady County Fairgrounds. At that meeting we were shown the proposed location for the West Bypass around Chickasha. I asked how we could speak against the proposed plan and was told to send a comment form provided.

In talking to friends and neighbors I discovered that very few of them new about the public meetings and many of them did not know about the proposed West Bypass. Many of them that heard about a West Bypass assumed it would be much further west and not right on the edge of town.

In order to show the people making the decisions concerning the purchase of right-ofway that there is a great amount of opposition against the proposed West Bypass plan, I have attached approximately 125 signatures with addresses voicing our comments and concerns.

We respectfully request your help and consideration concerning our comments. We would like to have another opportunity to meet with you and the others who may be involved in these decisions concerning the West Bypass.

Sincerely,

Cary DeHart

Cc:

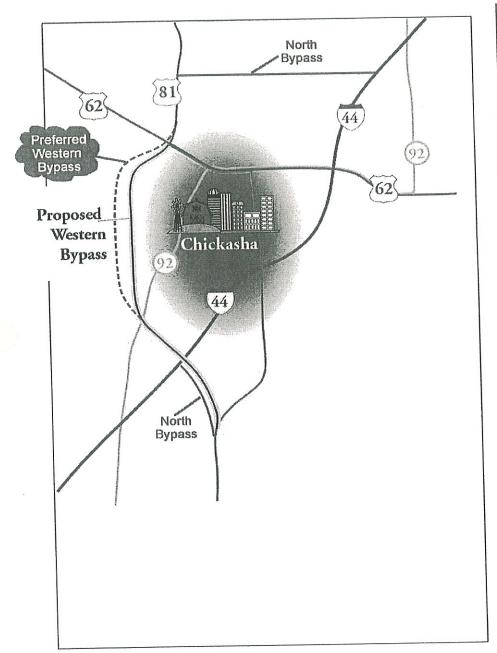
Larry Shelton, City Manager/City of Chickasha Greg Elliott, Mayor/City of Chickasha

US 81 Corridor Study Community Building Grady County Fairgrounds September 7, 2006 Public Comments Form

Dear Participants:

We would like to thank you for taking the time to attend this meeting. This form is provided for your convenience should you have any final written comments regarding the US 81 Corridor Study.

I have the following comments or questions al Union City to South of SH 19 in Chickasha: (See Attached)	bout the US 81 Corridor Study from north of
A:	
14 / 12 / 12 / 12 / 12 / 12 / 12 / 12 /	The second of th
	Y dis
Name:	Planning & Research Division Engineer Oklahoma Department of Transportation
Address:	Oklahoma Department of Transportation 200 Northeast 21 st Street
City, State, Zip	Oklahoma City, Oklahoma 73105
	FAX:(405) 521-6917
(Above information is optional)	





Looking East from 29th



Looking West from 29th & Idaho

If the Bypass is to be located on the west side of Chickasha, it should be located further to the west of Chickasha. Alternate 4 or further west, would be preferred over the Alternate 3 or the 3-4 hybrid. By purchasing right-of-way further west, future homeowners will know the highway's future location before they build in this area.

Also, the plan indicated an intersection/exit from the new 4-lane bypass at Idaho Ave. This would greatly increase the future traffic on Idaho, which is residential and very narrow road. Idaho is a dead end to the east from 29th Street. The following signs are located on Idaho between 29th Street and the proposed new intersection.

Thank you for your consideration,

) Name	Address:	City:	State: Zip:	
- 10	Tim Dunkin	2100 S. 29th	Chickasi	a OK 73018	>
Pam Ervin	Jam Zorin		Checkash	a OK 73018	
Day Day D	Jan Dunkin	2100 S. 29th	Chickash	a, OK 73018	
	Wale Dunt	kin 1601 S	19+4 CL	uzkasha Ok 73	ي/ك
Tammy Remy		, 2100 S. 29+h	Phickash	a OK 73018	
Rid 1	LIGH DUNKIN :	2100 S 20th CI	nickasha	DK73018	
) IN I M	- K / C/C/ 12 / 21 / / /		·		
		`			

We feel the proposed Chickasha West Bypass that was presented at the Grady County Fairgrounds on September 7, 2006 is the grady is too close to existing homes and this plan is not considering the best interest of the future growth of Chickasha. The "North Bypass" would be by far more acceptable

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Thank you for your consideration,

Name	Address:	City:	State: Zip:	
Name	PO BOX 1673	MICKA	State: Zip: ンチャル ン3の	1
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If the Bypass is to be located on the west side of Chickasha, it should be located further to the west of Chickasha. Alternate 4 or further west, would be preferred over the Alternate 3 or the 3-4 hybrid. By purchasing right-of-way further west, future homeowners will know the highway's future location before they build in this area.

Also, the plan indicated an intersection/exit from the new 4-lane bypass at Idaho Ave. This would greatly increase the future traffic on Idaho, which is residential and very narrow road. Idaho is a dead end to the east from 29th Street. The following signs are located on Idaho between 29th Street and the proposed new intersection.

Thank you for your consideration,

Name	Address:	City:	State: Zip:
marion drie	wald, 33/0 W Id	who Ave C	buckashook 73018
Eula Suswoid	3310 W Id	aho Aus	Chickasha OK >2013
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Thank you for your consideration,

Name,	Address:	City:	State: Zip:
Kla. Hunter	3333Salb	Chickosho	QY 130.18
Patti Boutel	879 CK 1400	3 Chipha	sha, OK 73018
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Thank you for your consideration,

Name	Address:	City:	State: Zip:
angie Barnett	1143CR 1400	Checka	8ha, OK 73018
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	,		1446-440
PARTIES AND		<u></u>	

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Thank you for your consideration,

Name	Address:	City:	State: Zip:
CHES PRIDERS	3325 ARTONA	CHIX	OF 73018
Day Bard	106 St Jomes Place		DE 73018
	3739 State Huy 92		13018
Danua Kin	23/5 5 33°M	Citicheine.	a This
	t. 2029 519	Chefer	du 4- 73018
Trans Milt.	2900 South 29th Street	Chicka	sha OK 73018
Stun Hish	1175 attack	Chile	15 La DE 73018

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Thank you for your consideration,

Name	. Address:	City:	State: Zip:	
Patit a Brooks	1.O.Box 1/30	Chickasha.	OK 73018	
Carl Lemi	104 Conda	ailal	= 01 720 / W	74 /.
Quitis a Broo	By 12822 11	ichles Rd.	, Chispasha X	,ΔQ
philles z	13 Chirator	les Dr. Ch.	ckarlas 30/8	
Dundthinker	1506 S' 11th	(nulsady	2 1× 13015	
Usa Baker 48.	Hillorest Dr.	Ohickasha	04 13018	
David Shell 110		Unikasha	K 73018	
al Ah 1013	Grand Terrace	Chriteagha	O4 7308	•

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Thank you for your consideration,

Name	Address:	City:	State: Zip:	
Shaldon Smith	115 N 297h	Chickasho	1, OK 73018	9
Sara, Smith	1157 294R	Chickasha	r, OK 73018	
Lon Smit	£ 737 CORE	1360 ch	Mashy OK 730	18
La Vera Smith) 737 Co R.d	1360 (hu	<u> Bashe, UD/3</u> 01	18
LADDINA SMI	th 737 C. F	2. 1360 C	hickashajok.	73016
Lovern Tlight	ingale 727.	CO.RD.1	360 (hickorhal)K
Elaine Dligh	itingale,		· ()	
Chery Dightingo	le 727 Co. 8	2d. 1360, (hickasha OK 73018	

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Thank you for your consideration,

Name	Address:	City:	State: Zip:
PAUL HORRAN	3213 CACIFGUE	CHILLIE	OK 73018
Duchang) Ja	ago 0 673 County Rd	1365 Chick	ok 73018
Britanunto	J	Chickasha	
Tevesa Smith	141 Cold 1441) Cement	OL 72017
SEIN ROSISO	J 3600 W. Gr	rais CHick	asila, OK 73023
Annien kanndy	312512th	Chickosl	un, OK 73018
Willeste Intimo	By 33/0 W Higher	mb 2 Chiche	ANK 3018
flux halm	33/0 W Highw		Rashs 1/2 13018
- Lawrence of the Contract of	J	,	

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Thank you for your consideration,

Name	Address:	City:	State: Zip:
Tricia Duranes	PD Box 1595		
Darody & Leighm	1209 So 7th	Checkusha	OK 13018
Gensol Just	224 CA 1340	Venden	ok 12092
Joya Smith	224 CR 1340	Vardan	OR 7309 C
Herz: Sincitic	4103 So 16	+11 Chuebrie	Afracy C. K. Ke.
Sinda Roper	3206 Park	Chickas	ha, OK 73018
5 45	-3019 Heller and 6	r. Chicharle	04 73018
June Hellmor	3091 C52800	Dinneka	L OR 73067
1	Name of the state		

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Name	Address:	City:	State: Zip:	
January 12 a	My 1820 D	ahate	Checkarla 73	018
Chana le likan	2996 1. old Highen	ey do	4.37 Chickashoutse	S7 E
12 111	408 CR 1360	Chick	asha 13018	
RIW STATE		Chief.	ache Od	
Mich Carret	HIZ ZERD AVE A	VE Abre	MAN OK 73071	
Alex McDar	med 1416 Frisco Apt	- 3 Chix	OKIG 73018	
Heather Ha.	mon 110 Parks	he Chici	Casha OK 73018	
Johniem	M33CR1470 Alex Ol	2 73007	The second secon	

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Thank you for your consideration,

N	Address:	City:	State: Zip:
Name		a Mush	0.1. NV 73NV
WMi Sinko-	2781 CoSt 27	74 CHASO	Willi, CIC 15018
01/1/1	17 512 Chin	Esta Oll	73018
Doily Grown	3385 6 St. 2	2850 Ni	une Krh, dk 73067
\mathcal{I}_{Λ}	01000 1/th	Chickash	12 DK 73018
	1 Cara T. 18040 /	400 CHICK	ASHA UK 73018
1 10 Pouro	2182 N 5 5 5	Chickesh	a, OK 73018
Jeseph 9: cemps	611 us Hwy 277	Ninnekah	OK 73067
Cm Marks	W: 1 -cc		and property and a season of the season of t

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	A ddroce:	City:	State: Zip:	and the same of th
Name	Address:	Λ		
	2901 Idaho (Phularkan	73018	
Dayse Cobrette	CI CI	· Pech	73018	>
Anoth, Scaffella	2710 UM	Walk		
2 / What is	2213 Universit	Chickeshe		
Challeman !	And the state of t	2 101	ckasha Ok	1-3018
1/2/ 1/1 130 til	1,2213 Univ.	Blvd. Chi	CRUSIA UN	
Marie Marie	222 - 1	Ť.	• •	· •
Bot Dollar	2225	1 1	1 / 1.)	1 75218
0 1 200	2105 WINIY	lersity B	NA Chicky	shu 730/8
Bailey DEES			hickash	, 73018
Den tiloler	3015 1 d	aho (4721CAST	
0 1 +	7 3333	11 VI	(hickail	a 13018
Carolyn Gunte	4 2000 00	In the Comment of the	D	
<i>f</i>				

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Thank you for your consideration,

Pam Dorman 2221 S. 14th Chickasha OK 93018 Charles Farker 203 Flounders Dr. Chickasha, OK 73018 Olimbrac 3211 Meigonia Chickasha, Ok 73018 Olomice Monroe 3211 Origonia Chickasha OK 73018 Olom Warden 32001 Ar. Zink Chickasha OK 73018 Sunthan Birchman 3680 15. Tomb ave Chickasha OK 73018
Ob Monco 3211 ARigonis Chickasha, ch 73018 Nomice Monroe 3211 Origona Chickasha Ok 73018 You Worden 3204 Ar. Zind Chickasha Ok 73018 Surphin Biochman 3680 W. Town ave Chickasha Ok 73018
Nonice Montree 3211 aregona Chickesha 8 73018 You Worden 3204 Ar. Zink Chickesha OK 73018 Suffer Biochney 3680 W. Town ave Chickesha OK 730K
Jon Worker Brockman 3680 13. Town aux Chickasha OK 730K
Jon Worker Brockman 3680 13. Town aux Chickasha OK 730K
Surphen Brockman 3680 W. Town ave Chickensha OK 730 F.
District Chickasha ok 73018
1)11100105557 (2117)
Markerson 828 Sth Chickesha OK

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<u>Name</u>	Address:	City: State	e: Zip:
Cary Dettant	3210 W. Idaho	Chickasha, ok	73018
Kins Duffith	3028 W. Idahi	chickesher, ok	73018
Robert LPsamed	1743 C.R. 1400	Chickache, OK	73018
B) Kathert	3210 W. Idaho	ChickashaOK	73018
marge Inthit	3028 w Idaho		
Bill Growell	3306 W. IDAHO	O CHICKASHA,	14,73018
Manage Ville	113306 W.J	clare Crick	Rede Ola
andela Solf	_ 3306 W. Ida	ho Chile	wher ob

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Thank you for your consideration,

Name	Address:	City:	State: Zip:
Janay Boone	3327 W Ideho	-1 0	
Bell Schwal	3500 W. Tow		SAM 73018
Lat Schwerk	3500 W. TOU		
John Hon	3126 W.I	CUZ CH	viekosha 73018
Half Crawford	3100 W. Fow		ela-lo 130/8
Serry affin	740011	Dmr. C	hils. 77018
10 roux abrell	1 2901 W DO	doho (heck
To Trems	3000 WA	eho Ch	ick
			The state of the s

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Name Alliellellellellellellellellellellellelle	Address: 7 12165 CG (12165 CG (City: Olevlasla Covity R Count Rd	State: Zip: 2 (hickshy 7308) Chillishy 7308
John Janes A		county RD Brook Ch	Chickasha73018 Chickasha73018 Lickasha, OIC 13018
Marle Hamos	2 1828 Can	rolinal	Gekasha OK 7398

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Name	Address:	City:	State: Zip:
Hahda Carrier	1927 8 141	& Checkinh	ol 73018
Henry (Mosh & 11	1828 S.1		
Retherine Hert	ten 2001s	S. MES	F (hix, CK 73018
1 addie De	MN 1923 S	5-14th CH	CKA THA ON 73018
Madeiela Bo	one 1785.		tasta, OK 7308
In John III III	***************************************	ACCUPATION A STREET AND ADDRESS OF THE PARTY	riclasia OK 73018
Sulangan N	10 man. 231	06 530 Ch	Chickenha OLT3df
Rack S	100033	27 4/25/	TOMO RUE CHAShar
Louth Der	# 3301 W.	Ideko Ci	11111 OF 13010

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Thank you for your consideration,

Name	Address:	City:	State: Zir	D:
EV Hicken	Rt 1B	6 x 2 4 Cl	uganta	13010
-	•			
	nakkita kitikana kii karsi, dan iraa si kati sakkita ili, maa makii makana kitimi karta.	ing alama and a galary at the great facility of the great facility of the great facility of the great facility		decode according to the second
				MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND
	and device in the second se	na pala na na salaha didika dika dika dika dika dika dika d	maka dereka dereka dalah seriala serial dengah serial dan dengah serial serial serial serial serial serial seri	roudskuskylenda
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head of the state				50.0 A 310.00 A 510.00

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Thank you for your consideration,

Name	Address:	CRY:	State: Zip:
Stronge a Hom	3126 W. Ioun	Chickasha	DK 73018
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		44	
Annual Annual State State Control of the Advantage of the Advantage of the Annual State Control of the Annual Stat	And the second state of the second se	COMMANDE AND AND ASSESSMENT OF PARTIES AND	Manufactures (S. A. Lassen, asses program in practice in the contract of the c

SUMMARY OF ALL US 81 WRITTEN PUBLIC COMMENTS 10/10/06 - PAGE 1

		10/10/06 - PAGE 1					
						Small Iown	Lown
		, i	Chicke	Chickasha Western Bypass	pass	Bypasses	SSeS
Date	Name	Comment	PRO	"PRO" w/Changes	NO SO SO SO SO SO SO SO SO SO SO SO SO SO	PRO	CON
1/22/99	Larry Shelton, City of Chickasha	Resolution from the City Council requesting ODOT include a west	×				
6/15/04	Marilyn Feaver, Grady Co Econ	Resolution from Development Council requesting that ODOT improve US 81			×		
5/10/05	Dwight Yokum, Chix Public	Supports bypass if it makes Chix more attractive for potential business;					
5/17/05	Schools Patrick Brooks	Supports a Northern Bypass			×		>
5/19/05	Gina Dickerson; TJ McCullough, Jr.	Support widening Us 81; against UC bypass					<
5/19/05	Rep. Phil	Supports improving US 81 from El					
11/5/05	Gred Fillott	For Chix w. bypass; prefers hybrid	×				
11/7/05	Lindel Pettigrew	For Chix w. bypass; prefers hybrid	×				
11/17/05		Suggesting a variation of west bypass		×			
11/0/05	Steve Boswell	Against Minco Bypass					× >
11/9/05	Dara Ross	Against Minco Bypass					< ×
11/9/05	Reedy Maples Jr.	Minco Bypass					< ×
11/9/05	Larry Maples	Against small town bypasses; For Chix bypass	×				< >
11/0/05	Virginia Haves	Against small town bypasses					< >
11/11/05	-	Against Minco Bypass					< >
11/11/05	+	Against UC bypass					<
11/13/05	-						
	Hamlett	0					

SUMMARY OF ALL US 81 WR., TEN PUBLIC COMMENTS 10/10/06 - PAGE 2

			Chick	Chickasha Western Bypass	ypass	Small Town Bypasses	Town sses
Name	Comment	ment	PRO	"PRO" w/Changes	PRO	PRO	PRO
B. Thomas	Against Chix bypass	pass and Idaho			×		
	Interchange						>
Doug Phelps	Against small town bypasses;	bypasses;	×				×
,	For Chix bypass						>
John Hacker	Against Minco BP						× ×
Nancy Malcom	Against Minco Bypass	ass					< >
Bob Bratcher		ass					× ×
Karen Bratcher	Against	ass					< >
Doug Denard	Against	small town bypasses			-		<
Darrell Mollett	Against Chix bypass	SS			×		
Charlie Burress	For Chix		×				
Leon & N	Mary For Chix bypass		X (2)				
Jensen						3	
Moss/Betche	Against Minco Al	Alternate, Prefers				× (Z)	
		9					×
J. Mason	Against Minco Bypass	ass					<
۸,	Linda Prefers no impact	no impacts to west side of					
Shipman	US 81						
TK Cattle & Co		pacts to west side					
							×
Nick Sprowls	Against Minco Bypass	ass				20	< >
Inga Sprowls	Against Minco Bypass	ass					< >
Nick Sprowls Jr.	Against	ass					< >
David Sprowls		oass					< >
Inlia Sprowls	Against Minco Bypass	oass					<

SUMMARY OF ALL US 81 WK., TEN PUBLIC COMMENTS 10/10/06 - PAGE 3

Town	NOS							>	× ;	<										(0) >	V (Z)					
Small Town Bypasses	PRO									>	×														(5)	(Z) X
Western	CON	×	;	×;	×	×										2	×		;	×						
sha	"PRO" w/Changes																									
Chickas Bynass	PRO							×											×			×		;	×	
		Against Chix Bybass		Against Chix Bypass	Against Chix bypass	Against Chix bypass	Wants US 81 to be 4-lane	For Chix bypass	Against Union City Bypass	Against Union City Bypass	For Union City Bypass	How much Pocasset ROW needed	Supports new lanes on the east side of US	81	Doesn't plan to attend meeting	Contact local floodplain administrator	Against Chix Bypass	For Minco existing alignment; questions re: ROW and US 37/US 81 alignment along	For Chix Bypass	Against Chix W bypass	Against East Bypass and Alternate	For Chix Bypass		work on abandoned school site	For Chix Bypass	
	Name	l aDrinia	Richardson	David Holding	Dana Holding	Bonnie Moddrell	Jeannie Singleton	Ken Singleton	I lovd Menz	Tracev Pappe	James Pappe	Bill Sheets	Larry & Linda	Shipman	Tim Stewart - OTA	OWRB	William McDuff	Moss/Betche	Mike Nunamaker	M. C. Rempe	Moss/Betche	Lucille Looney	Tracy Caraway	(JCCA)	Mary Jensen	Wickie & Peggy Riley
	Date	44 192 INE	11/23/03	11/23/05	11/23/05	11/23/05	11/23/05	11/23/05	11/28/05	11/28/05	11/28/05	9/19/06	90/2/6		8/30/06	9/4/06	9/11/06	9/13/06	9/13/06	9/13/06	9/13/06	9/18/06	9/18/06		9/18/06	9/20/06

SUMMARY OF ALL US 81 WK., TEN PUBLIC COMMENTS 10/10/06 - PAGE 4

Name	Comment	Chickasha Bypass	sha	Western	Small lowi Bypasses	Small Town Bypasses
		PRO	"PRO" w/Changes	PRO	PRO	PRO
Anonymous	Against current alignment of Chix W bypass; prefer North bypass or moving further west		×			
GW III and Bertha Thomas	Against Bypass Alt 4; prefer Bypass Alt 3 (less intrusive)		X (2)			
			-1	X (2)		
ספונומ ווסוומא	growth merits bypass; fix bridges instead		41			
Cary DeHart	Current alignment of W Bypass is too far east;		X (120)	X (2)		
on)	prefer either N Bypass or using West					
	Alternate 4 or even further west; against					
	Idaho interchange					
GW III and	States that US 81 corridor study public			(2)		
Bertha Thomas	involvement effort was not adequate;					
	requests another meeting to discuss bypass					
	alternatives.					
James	Suggests west bypass should be moved west		×			
Winslow, MD	1/2 mile, or consider a north bypass					
Kenneth &	Supports 4-laning US 81; supports a logical	X (2)				
Jeanie	bypass					
Singleton						

SUMMARY OF US 81, JBLIC COMMENTS CHICKASHA WESTERN BYPASS 10/10/06 - PAGE 1

Comment
Resolution from the City Council requesting ODOT include a west bypass in their list of projects
Resolution from Development Council requesting that ODOT improve US 81 to 4-lane and build a north bypass
Supports a Northern Bypass
For Chix w. bypass; prefers hybrid
by
Suggesting a variation of west route
Against small town bypasses; bypass
Against Chix Interchange
Against small town bypasses;
Against Chix bypass
For Chix bypass
For Chix bypass
Against Chix Bypass
Against Chix Bypass
Against Chix bypass
Against Chix bypass
For Chix bypass
Against Chix Bypass
For Chix Bypass
Against Chix W hynass

SUMMARY OF US 81 PUBLIC COMMENTS CHICKASHA WESTERN BYPASS 10/10/06 - PAGE 2

SUMMARY OF US 81 PUBLIC COMMENTS SMALL TOWN BYPASSES 10/10/06 - PAGE 1

Ses	CON	×		×	×	×	×	×	×	×	×]	×	×	×	×	×			×	×	×	×	×	×	×	×		X (2)		24
Small Town Bypasses	PRO																	X (2)										×		X (2)	2
	Comment	Support widening Us 81; against UC bypass		Against Minco Bypass	Against Minco Bypass	Against Minco Bypass	Against small town bypasses; For Chix bypass	Against small town bypasses	Against Minco Bypass	Against UC bypass	Against small town bypasses;	For Chix bypass	Against Minco BP	Against Minco Bypass	Against Minco Bypass	Against Minco Bypass	Against small town bypasses	Against Minco Alternate, Prefers Minco East	Bypass	Against Minco Bypass	Against Union City Bypass	Against Union City Bypass	For Union City Bypass	Against East Bypass and Alternate	For small town bypasses; questions about ROW and notification	TOTALS					
	Name	Gina Dickerson; TJ	McCullough, Jr. – City of UC	Steve Boswell	Dara Ross	Reedy Maples Jr.	Larry Maples	Virginia Hayes	John Swafford	Elizabeth Gilpen	Dong Phelps		John Hacker	Nancy Malcom	Bob Bratcher	Karen Bratcher	Doug Denard	Moss/Betche		J. Mason	Nick Sprowls	Inga Sprowls	Nick Sprowls Jr.	David Sprowls	Julia Sprowls	Lloyd Menz	Tracey Pappe	James Pappe	Moss/Betche	Wickie & Peggy Riley	
	Date	5/19/05		11/9/05	11/9/05	11/9/05	11/9/05	11/9/05	11/11/05	11/11/05	11/17/05		11/17/05	11/17/05	11/17/05	11/17/05	11/17/05	11/18/05		11/18/05	11/21/05	11/21/05	11/21/05	11/23/05	11/23/05	11/28/05	11/28/05	11/28/05	9/13/06	9/20/08	