

**APPENDIX I**  
**Construction Cost Estimate**

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 1 - US 62 to E 1320 Road					
US 81: Sta. 100+00 - Sta. 255+18.88					
Length = 2.94 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>					
<b>Divided 4-Lane</b>					
2" Type S4 Asph. Conc. (PG 76-28 OK)	14,760	ton	60	\$ 885,600	
3" Type S3 Asph. Conc. (PG 76-28 OK)	22,375	ton	56	\$ 1,253,000	
7" Type S2 Asph. Conc. (PG 64-22 OK)	53,335	ton	53	\$ 2,826,755	
Tack Coat	20,140	Gal	1.75	\$ 35,245	
Prime Coat	22,785	Gal	2.25	\$ 51,266	
8" Lime Stabilized Subgrade					
Lime	2,750	ton	135	\$ 371,250	
Lime Stabilized Subgrade	151,795	SY	2.25	\$ 341,539	
					<b>\$ 5,764,655</b>
<b>EARTHWORK</b>					
Excavation					
Excavation	176,400	CY	5	\$ 882,000	
Borrow <sup>1</sup>					
Borrow <sup>1</sup>	701,650	CY	6	\$ 4,209,900	
					<b>\$ 5,091,900</b>
<b>BRIDGE</b>					
Union Pacific Railroad Overpass					
Union Pacific Railroad Overpass	18,800	SF	115	\$ 2,162,000	
Washita River overflow					
Washita River overflow	14,100	SF	95	\$ 1,339,500	
Washita River overflow					
Washita River overflow	14,100	SF	95	\$ 1,339,500	
Washita River					
Washita River	18,800	SF	95	\$ 1,786,000	
					<b>\$ 6,627,000</b>
<b>DRAINAGE</b>					
Pipe (24" or smaller)					
Pipe (24" or smaller)	200	LF	55	\$ 11,000	
Pipe (30" or larger)					
Pipe (30" or larger)	600	LF	80	\$ 48,000	
RCB (24 SF or smaller)					
RCB (24 SF or smaller)	400	LF	300	\$ 120,000	
RCB (30 SF to 64 SF)					
RCB (30 SF to 64 SF)	0	LF	475	\$ -	
RCB (70 SF or larger)					
RCB (70 SF or larger)	0	LF	600	\$ -	
					<b>\$ 179,000</b>
<b>MISCELLANEOUS</b>					
% of Surfacing, Earthwork, Bridge, and Drainage Costs					
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	17,662,555	\$ 1,766,256	
					<b>\$ 1,766,256</b>
<b>CONTINGENCY</b>					
% of above Item Costs					
% of above Item Costs	15%	%	19,428,811	\$ 2,914,322	
					<b>\$ 2,914,322</b>
					<b>\$ 22,343,132</b>

<sup>1</sup> 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.

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 2 - E 1320 Road to E 1290 Road					
US 81: Sta. 255+18.88 - Sta. 413+54.00					
Length = 3.00 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>			(\$)		
<b>Divided 4-Lane</b>					
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	
					<b>\$ 5,881,793</b>
<b>EARTHWORK</b>			(\$)		
Excavation	180,000	CY	5	\$ 900,000	
Borrow	0	CY	6	\$ -	
					<b>\$ 900,000</b>
<b>BRIDGE</b>			(\$)		
	0	SF	95	\$ -	
					<b>\$ -</b>
<b>DRAINAGE</b>			(\$)		
Pipe (24" or smaller)	0	LF	55	\$ -	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	1,600	LF	300	\$ 480,000	
RCB (30 SF to 64 SF)	600	LF	475	\$ 285,000	
RCB (70 SF or larger)	200	LF	600	\$ 120,000	
					<b>\$ 885,000</b>
<b>MISCELLANEOUS</b>			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	7,666,793	\$ 766,679	
					<b>\$ 766,679</b>
<b>CONTINGENCY</b>			(\$)		
% of above Item Costs	15%	%	8,433,472	\$ 1,265,021	
					<b>\$ 1,265,021</b>
					<b>\$ 9,698,493</b>

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

**Segment 3 - E 1290 Road to E 1260 Road**  
**US 81: Sta. 413+54.00 - Sta. 580+67.40**  
**Length = 3.17 miles**

Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>					
			(\$)		
<b>Divided 4-Lane</b>					
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	
<b>8" Lime Stabilized Subgrade</b>					
Lime	2,965	ton	135	\$ 400,275	
Lime Stabilized Subgrade	163,670	SY	2.25	\$ 368,258	
					<b>\$ 6,215,481</b>
<b>EARTHWORK</b>					
			(\$)		
Excavation	190,200	CY	5	\$ 951,000	
Borrow	0	CY	6	\$ -	
					<b>\$ 951,000</b>
<b>BRIDGE</b>					
			(\$)		
West Fork of Salt Creek	9,400	SF	95	\$ 893,000	
					<b>\$ 893,000</b>
<b>DRAINAGE</b>					
			(\$)		
Pipe (24" or smaller)	0	LF	55	\$ -	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	800	LF	300	\$ 240,000	
RCB (30 SF to 64 SF)	200	LF	475	\$ 95,000	
RCB (70 SF or larger)	200	LF	600	\$ 120,000	
					<b>\$ 455,000</b>
<b>MISCELLANEOUS</b>					
			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	8,514,481	\$ 851,448	
					<b>\$ 851,448</b>
<b>CONTINGENCY</b>					
			(\$)		
% of above Item Costs	15%	%	9,365,929	\$ 1,404,889	
					<b>\$ 1,404,889</b>
					<b>\$ 10,770,819</b>

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

**Segment 4 - Pocasset (E 1260 Road to E 1250 Road)**

**US 81: Sta. 580+67.40 - Sta. 633+31.13**

**Length = 1.00 miles**

Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>			(\$)		
<b>Undivided 4-Lane</b>					
2" Type S4 Asph. Conc. (PG 76-28 OK)	2,370	ton	60	\$ 142,200	
3" Type S3 Asph. Conc. (PG 76-28 OK)	3,555	ton	56	\$ 199,080	
7" Type S2 Asph. Conc. (PG 64-22 OK)	9,205	ton	53	\$ 487,865	
Tack Coat	3,645	Gal	1.75	\$ 6,379	
Prime Coat	3,790	Gal	2.25	\$ 8,528	
<b>8" Lime Stabilized Subgrade</b>					
Lime	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	
					<b>\$ 1,549,549</b>
<b>EARTHWORK</b>			(\$)		
Excavation	9,675	CY	5	\$ 48,375	
Borrow	0	CY	6	\$ -	
					<b>\$ 48,375</b>
<b>BRIDGE</b>			(\$)		
	0	SF	95	\$ -	
					<b>\$ -</b>
<b>DRAINAGE</b>			(\$)		
Pipe (24" or smaller)	4,682	LF	55	\$ 257,510	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	200	LF	300	\$ 60,000	
RCB (30 SF to 64 SF)	0	LF	475	\$ -	
RCB (70 SF or larger)	0	LF	600	\$ -	
Closed System (inlets, manholes, etc.)	1	LSUM	48,000	\$ 48,000	
					<b>\$ 365,510</b>
<b>MISCELLANEOUS</b>			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	1,963,434	\$ 196,343	
					<b>\$ 196,343</b>
<b>CONTINGENCY</b>			(\$)		
% of above Item Costs	15%	%	2,159,777	\$ 323,967	
					<b>\$ 323,967</b>
					<b>\$ 2,483,744</b>

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 new 4-lane undivided curbed section is 0.75 miles.

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 5 - E 1250 Road to E 1230 Road						
US 81: Sta. 633+31.13 - Sta. 738+96.39						
Length = 2.00 miles						
Item	Quantity	Units	Unit Cost	Sub-total	Total	
<b>SURFACING</b>						
<b>Divided 4-Lane</b>			(\$)			
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						
Lime	1,870	ton	135	\$ 252,450		
Lime Stabilized Subgrade	103,260	SY	2.25	\$ 232,335		
					<b>\$ 3,921,195</b>	
<b>EARTHWORK</b>						
			(\$)			
Excavation	120,000	CY	5	\$ 600,000		
Borrow	0	CY	6	\$ -		
					<b>\$ 600,000</b>	
<b>BRIDGE</b>						
			(\$)			
	0	SF	95	\$ -		
					<b>\$ -</b>	
<b>DRAINAGE</b>						
			(\$)			
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)	0	LF	475	\$ -		
RCB (70 SF or larger)	0	LF	600	\$ -		
					<b>\$ 180,000</b>	
<b>MISCELLANEOUS</b>						
			(\$)			
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	4,701,195	\$ 470,120		
					<b>\$ 470,120</b>	
<b>CONTINGENCY</b>						
			(\$)			
% of above Item Costs	15%	%	5,171,315	\$ 775,697		
					<b>\$ 775,697</b>	
					<b>\$ 5,947,012</b>	

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 6 - E 1230 Road to E 1200 Road					
US 81: Sta. 738+96.39 - Sta. 897+35.36					
Length = 3.00 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>			(\$)		
<b>Divided 4-Lane</b>					
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	
					<b>\$ 5,881,793</b>
<b>EARTHWORK</b>			(\$)		
Excavation	180,000	CY	5	\$ 900,000	
Borrow	0	CY	6	\$ -	
					<b>\$ 900,000</b>
<b>BRIDGE</b>			(\$)		
	0	SF	95	\$ -	
					<b>\$ -</b>
<b>DRAINAGE</b>			(\$)		
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)	0	LF	475	\$ -	
RCB (70 SF or larger)	200	LF	600	\$ 120,000	
					<b>\$ 300,000</b>
<b>MISCELLANEOUS</b>			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	7,081,793	\$ 708,179	
					<b>\$ 708,179</b>
<b>CONTINGENCY</b>			(\$)		
% of above Item Costs	15%	%	7,789,972	\$ 1,168,496	
					<b>\$ 1,168,496</b>
					<b>\$ 8,958,468</b>

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 7 - E 1200 Road to South Street in Minco						
US 81: Sta. 897+35.36- Sta. 1029+17.41						
Length = 2.50 miles						
Item	Quantity	Units	Unit Cost	Sub-total	Total	
<b>SURFACING</b>						
(\$)						
<b>Divided 4-Lane</b>						
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		
<b>8" Lime Stabilized Subgrade</b>						
Lime	1,200	ton	135	\$ 162,000		
Lime Stabilized Subgrade	66,090	SY	2.25	\$ 148,703		
					<b>\$ 2,510,550</b>	
<b>Undivided 4-Lane</b>						
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		
7" Type S2 Asph. Conc. (PG 64-22 OK)	14,970	ton	53	\$ 793,410		
Tack Coat	5,350	Gal	1.75	\$ 9,363		
Prime Coat	6,165	Gal	2.25	\$ 13,871		
<b>8" Lime Stabilized Subgrade</b>						
Lime	745	ton	135	\$ 100,575		
Lime Stabilized Subgrade	41,035	SY	2.25	\$ 92,329		
2'-8" Curb & Gutter (8" Barrier)	12,885	LF	22	\$ 283,470		
					<b>\$ 1,847,698</b>	
<b>EARTHWORK</b>						
(\$)						
Excavation	92,540	CY	5	\$ 462,700		
Borrow	0	CY	6	\$ -		
					<b>\$ 462,700</b>	
<b>BRIDGE</b>						
(\$)						
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	5,875	SF	95	\$ 558,125		
					<b>\$ 1,422,125</b>	
<b>DRAINAGE</b>						
(\$)						
Pipe (24" or smaller)	1,092	LF	55	\$ 60,060		
Pipe (30" or larger)	6,454	LF	80	\$ 516,320		
RCB (24 SF or smaller)	500	LF	300	\$ 150,000		
RCB (30 SF to 64 SF)	300	LF	475	\$ 142,500		
RCB (70 SF or larger)	0	LF	600	\$ -		
Closed System (inlets, manholes, etc.)	1	LSUM	73,500	\$ 73,500		
					<b>\$ 942,380</b>	
<b>MISCELLANEOUS</b>						
(\$)						
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	7,185,453	\$ 718,545		
					<b>\$ 718,545</b>	
<b>CONTINGENCY</b>						
(\$)						
% of above Item Costs	15%	%	7,903,998	\$ 1,185,600		
					<b>\$ 1,185,600</b>	
					<b>\$ 9,089,597</b>	

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.



# US 81 CORRIDOR STUDY

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

## 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						
Item	Quantity	Units	Unit Cost	Sub-total	Total	
<b>SURFACING</b>						
				(\$)		
<b>Divided 4-Lane</b>						
2" Type S4 Asph. Conc. (PG 76-28 OK)	7,530	ton	60	\$ 451,800		
3" Type S3 Asph. Conc. (PG 76-28 OK)	11,415	ton	56	\$ 639,240		
7" Type S2 Asph. Conc. (PG 64-22 OK)	27,210	ton	53	\$ 1,442,130		
Tack Coat	10,275	Gal	1.75	\$ 17,981		
Prime Coat	11,625	Gal	2.25	\$ 26,156		
<b>8" Lime Stabilized Subgrade</b>						
Lime	1,405	ton	135	\$ 189,675		
Lime Stabilized Subgrade	77,445	SY	2.25	\$ 174,251		
					<b>\$ 2,941,234</b>	
<b>Undivided 4-Lane</b>						
2" Type S4 Asph. Conc. (PG 76-28 OK)	2,810	ton	60	\$ 168,600		
3" Type S3 Asph. Conc. (PG 76-28 OK)	4,215	ton	56	\$ 236,040		
7" Type S2 Asph. Conc. (PG 64-22 OK)	10,925	ton	53	\$ 579,025		
Tack Coat	3,905	Gal	1.75	\$ 6,834		
Prime Coat	4,495	Gal	2.25	\$ 10,114		
<b>8" Lime Stabilized Subgrade</b>						
Lime	545	ton	135	\$ 73,575		
Lime Stabilized Subgrade	29,940	SY	2.25	\$ 67,365		
2'-8" Curb & Gutter (8" Barrier)	9,400	LF	22	\$ 206,800		
					<b>\$ 1,348,353</b>	
<b>EARTHWORK</b>						
				(\$)		
Excavation	116,850	CY	5	\$ 584,250		
Borrow	0	CY	6	\$ -		
					<b>\$ 584,250</b>	
<b>BRIDGE</b>						
				(\$)		
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	5,875	SF	95	\$ 558,125		
					<b>\$ 1,422,125</b>	
<b>DRAINAGE</b>						
				(\$)		
Pipe (24" or smaller)	1,092	LF	55	\$ 60,060		
Pipe (30" or larger)	6,454	LF	80	\$ 516,320		
RCB (24 SF or smaller)	500	LF	300	\$ 150,000		
RCB (30 SF to 64 SF)	300	LF	475	\$ 142,500		
RCB (70 SF or larger)	0	LF	600	\$ -		
Closed System (inlets, manholes, etc.)	1	LSUM	73,500	\$ 73,500		
					<b>\$ 942,380</b>	
<b>MISCELLANEOUS</b>						
				(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	7,238,341	\$ 723,834		
					<b>\$ 723,834</b>	
<b>CONTINGENCY</b>						
				(\$)		
% of above Item Costs	15%	%	7,962,175	\$ 1,194,326		
					<b>\$ 1,194,326</b>	
					<b>\$ 9,156,502</b>	

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.

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

**Segment 8 - Minco (South Street to 0.45 miles south of SH 37 West)**

**US 81: Sta. 1029+17.41 - Sta. 1092+40.71**

**Length = 1.20 miles**

Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>			(\$)		
<b>Undivided 4-Lane</b>					
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	\$ -	
<b>8" Lime Stabilized Subgrade</b>					
Lime	0	ton	135	\$ -	
Lime Stabilized Subgrade	0	SY	2.25	\$ -	
2' 8" Curb & Gutter (8" Barrier)	0	LF	22	\$ -	
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	
					<b>\$ 1,981,551</b>
<b>EARTHWORK</b>			(\$)		
Excavation	0	CY	5	\$ -	
Borrow	0	CY	6	\$ -	
					<b>\$ -</b>
<b>BRIDGE</b>			(\$)		
Bridge Box near Sta. 1067+80	0	SF	80	\$ -	
					<b>\$ -</b>
<b>DRAINAGE</b>			(\$)		
Pipe (24" or smaller)	0	LF	55	\$ -	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	0	LF	300	\$ -	
RCB (30 SF to 64 SF)	0	LF	475	\$ -	
RCB (70 SF or larger)	0	LF	600	\$ -	
Closed System (inlets, manholes, etc.)	0	LSUM	0	\$ -	
					<b>\$ -</b>
<b>MISCELLANEOUS</b>			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	1,981,551	\$ 198,155	
					<b>\$ 198,155</b>
<b>CONTINGENCY</b>			(\$)		
% of above Item Costs	15%	%	2,179,706	\$ 326,956	
					<b>\$ 326,956</b>
					<b>\$ 2,506,662</b>

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).

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 9 - 0.45 miles south of SH 37 West to Canadian River						
US 81: Sta. 1092+40.71 - Sta. 1214+00						
Length = 2.30 miles						
Item	Quantity	Units	Unit Cost	Sub-total	Total	
<b>SURFACING</b>			(\$)			
<b>Divided 4-Lane</b>						
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						
Lime	1,310	ton	135	\$ 176,850		
Lime Stabilized Subgrade	72,285	SY	2.25	\$ 162,641		
					<b>\$ 2,745,366</b>	
<b>Undivided 4-Lane</b>						
2" Type S4 Asph. Conc. (PG 76-28 OK)	2,840	ton	60	\$ 170,400		
3" Type S3 Asph. Conc. (PG 76-28 OK)	4,265	ton	56	\$ 238,840		
7" Type S2 Asph. Conc. (PG 64-22 OK)	11,045	ton	53	\$ 585,385		
Tack Coat	3,950	Gal	1.75	\$ 6,913		
Prime Coat	4,545	Gal	2.25	\$ 10,226		
8" Lime Stabilized Subgrade						
Lime	550	ton	135	\$ 74,250		
Lime Stabilized Subgrade	30,275	SY	2.25	\$ 68,119		
2'-8" Curb & Gutter (8" Barrier)	9,505	LF	22	\$ 209,110		
					<b>\$ 1,363,243</b>	
<b>EARTHWORK</b>			(\$)			
Excavation	95,610	CY	5	\$ 478,050		
Borrow	0	CY	6	\$ -		
					<b>\$ 478,050</b>	
<b>BRIDGE</b>			(\$)			
Union Pacific Railroad Overpass	21,000	SF	115	\$ 2,415,000		
					<b>\$ 2,415,000</b>	
<b>DRAINAGE</b>			(\$)			
Pipe (24" or smaller)	832	LF	55	\$ 45,760		
Pipe (30" or larger)	4,660	LF	80	\$ 372,800		
RCB (24 SF or smaller)	0	LF	300	\$ -		
RCB (30 SF to 64 SF)	0	LF	475	\$ -		
RCB (70 SF or larger)	0	LF	600	\$ -		
Closed System (inlets, manholes, etc.)	1	LSUM	56,000	\$ 56,000		
					<b>\$ 474,560</b>	
<b>MISCELLANEOUS</b>			(\$)			
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	7,476,219	\$ 747,622		
					<b>\$ 747,622</b>	
<b>CONTINGENCY</b>			(\$)			
% of above Item Costs	15%	%	8,223,841	\$ 1,233,576		
					<b>\$ 1,233,576</b>	
					<b>\$ 9,457,417</b>	

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.

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 10 - Canadian River					
US 81: Sta. 1214+00 - Sta. 1244+00					
Length = 0.57 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>					
<b>Divided 4-Lane</b>			(\$)		
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	\$ -	
					\$ -
<b>EARTHWORK</b>					
			(\$)		
Excavation	0	CY	5	\$ -	
Borrow	0	CY	6	\$ -	
					\$ -
<b>BRIDGE</b>					
			(\$)		
Canadian River	0	SF	95	\$ -	
					\$ -
<b>DRAINAGE</b>					
			(\$)		
Pipe (24" or smaller)	0	LF	55	\$ -	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	0	LF	300	\$ -	
RCB (30 SF to 64 SF)	0	LF	475	\$ -	
RCB (70 SF or larger)	0	LF	600	\$ -	
					\$ -
<b>MISCELLANEOUS</b>					
			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	0	\$ -	
					\$ -
<b>CONTINGENCY</b>					
			(\$)		
% of above Item Costs	15%	%	0	\$ -	
					\$ -
					\$ -

From ODOT Project Report dated 1/23/06 ----> US 81 bridge over the Canadian River, BRFY-011N(054)

**construction cost = \$ 6,446,930**

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment 11 - Canadian River to 0.50 miles north of SH 152 East					
US 81: Sta. 1244+00 - Sta. 1368+72.39					
Length = 2.36 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>					
<b>Divided 4-Lane</b>					
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	
<b>8" Lime Stabilized Subgrade</b>					
Lime	1,555	ton	135	\$ 209,925	
Lime Stabilized Subgrade	85,710	SY	2.25	\$ 192,848	
					<b>\$ 3,255,380</b>
<b>Undivided 4-Lane</b>					
<del>2" Type S4 Asph. Conc. (PG 76-28 OK)</del>	0	ton	60	\$ -	
<del>3" Type S3 Asph. Conc. (PG 76-28 OK)</del>	0	ton	56	\$ -	
<del>7" Type S2 Asph. Conc. (PG 64-22 OK)</del>	0	ton	53	\$ -	
Tack Coat	990	Gal	1.75	\$ 1,733	
Prime Coat	0	Gal	2.25	\$ -	
<b>8" Lime Stabilized Subgrade</b>					
Lime	0	ton	135	\$ -	
Lime Stabilized Subgrade	0	SY	2.25	\$ -	
2' 8" Curb & Gutter (8" Barrier)	0	LF	22	\$ -	
Cold Milling Pavement	19,715	SY	50	\$ 985,750	
2.5" Type S4 Asph. Conc. (PG 76-28 OK)	2,765	ton	61	\$ 168,665	
					<b>\$ 1,156,148</b>
<b>EARTHWORK</b>					
Excavation	99,600	CY	5	\$ 498,000	
Borrow	0	CY	6	\$ -	
					<b>\$ 498,000</b>
<b>BRIDGE</b>					
Bridge Box near Sta. 1261+60	2,880	SF	80	\$ 230,400	
					<b>\$ 230,400</b>
<b>DRAINAGE</b>					
Pipe (24" or smaller)	200	LF	55	\$ 11,000	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	200	LF	300	\$ 60,000	
RCB (30 SF to 64 SF)	0	LF	475	\$ -	
RCB (70 SF or larger)	200	LF	600	\$ 120,000	
Closed System (inlets, manholes, etc.)	0	LSUM	0	\$ -	
					<b>\$ 191,000</b>
<b>MISCELLANEOUS</b>					
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	5,330,928	\$ 533,093	
					<b>\$ 533,093</b>
<b>CONTINGENCY</b>					
% of above Item Costs	15%	%	5,864,020	\$ 879,603	
					<b>\$ 879,603</b>
					<b>\$ 6,743,623</b>

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).

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

<b>Segment 12 - 0.50 miles north of SH 152 East to E 1090 Road</b> <b>US 81: Sta. 1368+72.39 - Sta. 1500+90.10</b> <b>Length = 2.50 miles</b>					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>					
			(\$)		
<b>Divided 4-Lane</b>					
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	\$ -	
				\$	-
<b>EARTHWORK</b>					
			(\$)		
Excavation	0	CY	5	\$ -	
Borrow	0	CY	6	\$ -	
				\$	-
<b>BRIDGE</b>					
			(\$)		
	0	SF	95	\$ -	
				\$	-
<b>DRAINAGE</b>					
			(\$)		
Pipe (24" or smaller)	0	LF	55	\$ -	
Pipe (30" or larger)	0	LF	80	\$ -	
RCB (24 SF or smaller)	0	LF	300	\$ -	
RCB (30 SF to 64 SF)	0	LF	475	\$ -	
RCB (70 SF or larger)	0	LF	600	\$ -	
				\$	-
<b>MISCELLANEOUS</b>					
			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	0	\$ -	
				\$	-
<b>CONTINGENCY</b>					
			(\$)		
% 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

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment C - 1: South of SH 19 to Norge Road					
US 81: Sta. 0+00 - Sta. 145+65.00					
Length = 2.76 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>			(\$)		
<b>Divided 4-Lane</b>					
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					
Lime	2,020	ton	135	\$ 272,700	
Lime Stabilized Subgrade	111,525	SY	2.25	\$ 250,931	
					<b>\$ 4,235,341</b>
<b>EARTHWORK</b>			(\$)		
% of Surfacing Cost	25%	%	4,235,341	\$ 1,058,835	
					<b>\$ 1,058,835</b>
<b>BRIDGE</b>			(\$)		
West Side Creek	2	LSUM	2,000,000	\$ 4,000,000	
Country Club Road	1	LSUM	2,000,000	\$ 2,000,000	
Tributary to the Washita River	1	LSUM	2,000,000	\$ 2,000,000	
					<b>\$ 8,000,000</b>
<b>DRAINAGE</b>			(\$)		
% of Surfacing Cost	15%	%	4,235,341	\$ 635,301	
					<b>\$ 635,301</b>
<b>INTERCHANGE</b>			(\$)		
SH 19	1	LSUM	18,000,000	\$ 18,000,000	
I-44	1	LSUM	18,000,000	\$ 18,000,000	
Norge Road	1	LSUM	12,000,000	\$ 12,000,000	
					<b>\$ 48,000,000</b>
<b>MISCELLANEOUS</b>			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	13,294,177	\$ 1,329,418	
					<b>\$ 1,329,418</b>
<b>CONTINGENCY</b>			(\$)		
% of above Item Costs	20%	%	63,258,895	\$ 12,651,779	
					<b>\$ 12,651,779</b>
					<b>\$ 75,910,674</b>

# US 81 CORRIDOR STUDY

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

## ULTIMATE 4 LANE

Segment C - 2: Norge Road to US 62					
US 81: Sta. 145+65.00 - Sta. 361+66.86					
Length = 4.09 miles					
Item	Quantity	Units	Unit Cost	Sub-total	Total
<b>SURFACING</b>			(\$)		
<b>Divided 4-Lane</b>					
2" Type S4 Asph. Conc. (PG 76-28 OK)	17,520	ton	60	\$ 1,051,200	
3" Type S3 Asph. Conc. (PG 76-28 OK)	26,560	ton	56	\$ 1,487,360	
7" Type S2 Asph. Conc. (PG 64-22 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					
Lime	3,265	ton	135	\$ 440,775	
Lime Stabilized Subgrade	180,190	SY	2.25	\$ 405,428	
					<b>\$ 6,842,898</b>
<b>EARTHWORK</b>			(\$)		
% of Surfacing Cost	25%	%	6,842,898	\$ 1,710,724	
					<b>\$ 1,710,724</b>
<b>BRIDGE</b>			(\$)		
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	
					<b>\$ 8,000,000</b>
<b>DRAINAGE</b>			(\$)		
% of Surfacing Cost	15%	%	6,842,898	\$ 1,026,435	
Rock Hollow Creek Channel Improvements - Earthwork	450,000	CY	6	\$ 2,700,000	
Rock Hollow Creek Channel Improvements - Paved Ditch	4,500	SY	90	\$ 405,000	
					<b>\$ 4,131,435</b>
<b>INTERCHANGE</b>			(\$)		
Grand Avenue	1	LSUM	12,000,000	\$ 12,000,000	
Idaho Avenue	1	LSUM	12,000,000	\$ 12,000,000	
US 62	1	LSUM	18,000,000	\$ 18,000,000	
					<b>\$ 42,000,000</b>
<b>MISCELLANEOUS</b>			(\$)		
% of Surfacing, Earthwork, Bridge, and Drainage Costs	10%	%	16,553,622	\$ 1,655,362	
					<b>\$ 1,655,362</b>
<b>CONTINGENCY</b>			(\$)		
% of above Item Costs	20%	%	64,340,419	\$ 12,868,084	
					<b>\$ 12,868,084</b>
					<b>\$ 77,208,502</b>