

Cost Estimates

New-Location Roadway

NEW-LOCATION ROADWAY

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Description	Miles	\$ / Mile	Cost	
7-lane curb & gutter (88' F-F)		\$ 5,600,000.00	\$ -	
5-lane curb & gutter (64' F-F)		\$ 4,600,000.00	\$ -	
6-lane curb & gutter w/raised median		\$ 5,700,000.00	\$ -	
4-lane curb & gutter w/raised median		\$ 4,700,000.00	\$ -	
4-lane curb & gutter w/blvd grass median		\$ 4,400,000.00	\$ -	
4-lane curb & gutter (52' F-F)		\$ 4,000,000.00	\$ -	
3-lane curb & gutter (40' F-F)		\$ 3,600,000.00	\$ -	
2-lane curb & gutter - parking each side		\$ 4,000,000.00	\$ -	
2-lane curb & gutter - parking one side	0.36	\$ 3,600,000.00	\$ 1,296,000.00	Parallel Road
2-lane shoulder w/2 ft. paved shoulders		\$ 2,700,000.00	\$ -	
6-lane divided shoulder section w/grass median		\$ 7,500,000.00	\$ -	
8-lane curb & gutter w/raised median		\$ 9,100,000.00	\$ -	
5-lane curb & gutter with bike lanes*		\$ 4,700,000.00	\$ -	
2-lane shoulder section w/bike lanes*		\$ 2,900,000.00	\$ -	
4-lane curb & gutter w/raised median plus bike lanes*		\$ 4,700,000.00	\$ -	
4-lane shoulder section w/median (non-freeway)		\$ 4,700,000.00	\$ -	
4-lane divided shoulder section w/median (freeway)		\$ 5,500,000.00	\$ -	
5-lane shoulder section (undivided)		\$ 4,400,000.00	\$ -	
6-lane shoulder section w/median - freeway		\$ 7,600,000.00	\$ -	
Sub-Total:			\$ 1,296,000.00	

* Includes cost for accommodating bicycles

WIDENINGS

	Miles	\$/Mile	Cost	
Existing 2-lane shoulder section to:				
3-lane curb & gutter	0.22	\$ 2,200,000.00	\$ 484,000.00	Shallowford Road
4-lane curb & gutter		\$ 3,200,000.00	\$ -	
4-lane curb & gutter w/raised median	0.21	\$ 4,000,000.00	\$ 840,000.00	Williams Road
5-lane curb & gutter		\$ 3,600,000.00	\$ -	
5-lane shoulder section		\$ 3,500,000.00	\$ -	
4-lane shoulder section w/median (non-freeway)		\$ 3,700,000.00	\$ -	
4-lane shoulder section w/median (freeway)		\$ 4,400,000.00	\$ -	
Existing 4-lane w/ median to:				
6-lane (existing 30' to 22' median) interstate		\$ 12,000,000.00	\$ -	
6-lane (existing 70' to 46' median) interstate		\$ 5,800,000.00	\$ -	
8-lane (existing 68' to 22' median) interstate		\$ 11,900,000.00	\$ -	
Existing 18-foot pavement to:				
24-foot shoulder section	0.08	\$ 1,200,000.00	\$ 96,000.00	
			Sub-Total: \$ 1,420,000.00	

STRUCTURES

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	Surface Area (ft^2)	Cost per Unit		Cost
		\$/ sq.ft.		
Bridges:				
new bridge over stream		\$ 105.00	\$	-
widen existing bridge over stream		\$ 140.00	\$	-
Interchanges/Grade Separations:	Number	\$/each		
grade separation (Hwy over Hwy)		\$ 1,800,000.00	\$	-
grade separation (Hwy over RR)		\$ 1,900,000.00	\$	-
grade separation (RR over Hwy)		\$ 2,500,000.00	\$	-
simple diamond		\$ 7,100,000.00	\$	-
simple diamond + 1 loop	1.00	\$ 7,700,000.00	\$ 7,700,000.00	New Bridge
half clover		\$ 9,600,000.00	\$	-
half clover + 2 ramps		\$ 14,400,000.00	\$	-
full clover		\$ 17,500,000.00	\$	-
w/ 1 collect-dist		\$ 20,600,000.00	\$	-
w/ 2 collect-dist		\$ 23,900,000.00	\$	-
w/ 3 collect-dist		\$ 27,100,000.00	\$	-
w/ 4 collect-dist		\$ 30,200,000.00	\$	-
simple flyover		\$ 7,100,000.00	\$	-
major flyover (\$15 to \$21,000,000)		\$ 21,000,000.00	\$	-
3-level flyover (\$17 to \$32,000,000)		\$ 32,000,000.00	\$	-
urban diamond interchange		\$20,600,000.00	\$	-
single point diamond interchange(\$21 to \$26,000,000)		\$26,000,000.00	\$	-
freeway to freeway directional interchange (\$56 to \$112,000,000)		\$ 112,000,000.00	\$	-

Sub-Total: \$ 7,700,000.00

SPECIAL ITEMS

Sidewalks	Miles	\$/Mile	Cost
5 ft., 1-side		\$ 125,000.00	\$ -
5 ft., 2-sides	1.03	\$ 250,000.00	\$ 257,500.00
Widen for bicycle lanes			
Existing shoulder section	Miles	\$/Mile	Cost
add 2 ft. paved shoulders		\$ 150,000.00	\$ -
add 4 ft. paved shoulders		\$ 300,000.00	\$ -
Existing curb & gutter section			
add 2 ft. paved shoulders		\$ 170,000.00	\$ -
Wetland Mitigation			
	Acres	\$/Acre	Cost
		\$ 60,000.00	\$ -
Utility Construction			
	Lin. Ft.	\$/Lin. Ft.	Cost
Water Line (length of widening)	5440.00	\$ 70.00	\$ 380,800.00
Sewer Line (length of widening)	5440.00	\$ 60.00	\$ 326,400.00
Add turn lane to			
	Lin. Ft.	\$/Lin. Ft.	Cost
Existing 4-Lane Road (\$310 to \$340)		\$ 340.00	\$ -
Super Street Intersection			
	Number	\$/each	Cost
Super Street Intersection (No Lt. Turn Lanes Existing)		\$ 625,000.00	\$ -
Super Street Intersection (With Existing Lt. Turn Lanes Existing)		\$ 450,000.00	\$ -
Other			
	Number	\$/each	Cost
Single-lane Roundabout	1.00	\$ 270,000.00	\$ 270,000.00
Dual-lane Roundabout	1.00	\$ 320,000.00	\$ 320,000.00
			\$ -
			\$ -

Sub-Total: \$ 1,297,200.00

Lin.Ft. = Full + 1/2 Taper Lnth

RIGHT-OF-WAY

Vacant Land	Acres	\$/Acre	Cost
farmland / wooded	2.79	\$ 65,000.00	\$ 181,350.00
commercial / office	0.12	\$ 655,000.00	\$ 78,600.00
residential	0.98	\$ 155,000.00	\$ 151,900.00
industrial		\$ 265,000.00	\$ -

The Oaks Shopping Center

Structures (total takes) (cost of lots + structures)	Property Cost	Cost
residential		\$ -
commercial		\$ -
industrial		\$ -
office		\$ -

Proximity Damages	Property Cost	% Damage	Cost
Dist. from structure(s) to new right-of-way line			
40 ft (12 m) to 50 ft (15 m)		7%	\$ -
30 ft (9 m) to 40 ft (12 m)		15%	\$ -
20 ft (6 m) to 30 ft (9 m)		30%	\$ -
10 ft (3 m) to 20 ft (6 m)	724,000	40%	\$ 289,600.00
less than 10 ft (3 m)		60%	\$ -

Exxon

Right-of-way Sub-Total: \$ 701,450.00

Utility Relocation Costs	Miles	\$/mile	Cost
For widening projects, enter length of widening:	0.43	\$120,000	\$ 51,600.00

	# intersections	\$/int.	Cost
For new-location projects, enter # of major roads intersected:	0.00	\$20,000	\$ -

Widening + New Location Costs = \$ 51,600.00

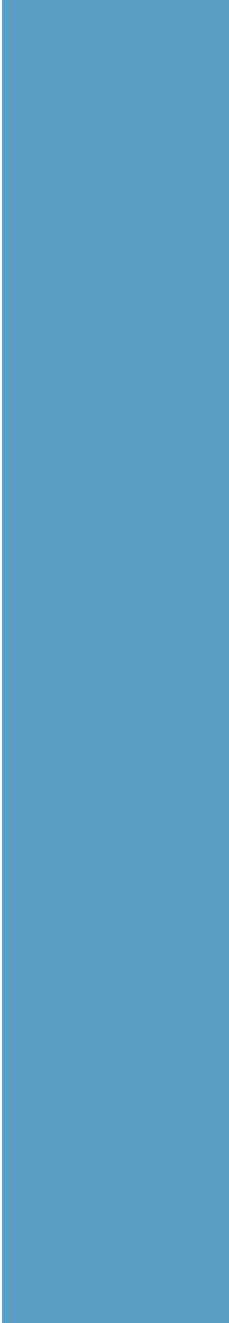
Additional 10% for miscellaneous costs= \$ 5,160.00

Utility Reloc. Sub-Total: \$ 56,760.00

RESULTS
TOTAL PROJECT COST ESTIMATE

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Roadway		\$
Roadway Sub-Total (page 1):	\$	1,296,000.00
Widening Sub-Total (page 2):	\$	1,420,000.00
Special Sub-Total (page 4):	\$	-
Roadway + Widening + Special:	\$	2,716,000.00
Roadway Inflation Factor:		1.00
Total Roadway Cost:	\$	2,716,000.00
Structures		\$
Structure Sub-Total (page 3):	\$	7,700,000.00
Structure Inflation Factor:		1.00
Total Structure Cost:	\$	7,700,000.00
Construction (Roadway & Structures)		\$
Total Roadway Cost:	\$	2,716,000.00
Total Structure Cost:	\$	7,700,000.00
Roadway + Structure Cost:	\$	10,416,000.00
Contingency (15%):	\$	2,083,200.00
Cost + Contingency:	\$	12,499,200.00
Preliminary Engineering (10%):	\$	1,249,920.00
Overhead (15%):	\$	1,874,880.00
Total Construction Cost:	\$	15,624,000.00
Right-of-Way		\$
Right-of-Way Sub-Total (page 5):	\$	701,450.00
Administration / Acquisition (30%):	\$	210,435.00
Relocation (10%):	\$	70,145.00
Adjusted Right-of-Way:	\$	982,030.00
Utility Relocation (page 5):	\$	56,760.00
Total Right-of-Way Cost:	\$	1,038,790.00
TOTAL PROJECT COST (Const. & R/W):		\$ 16,662,790.00



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