

APPENDIX F

Construction Cost Estimates

Reversible Lanes South of I-24 Construction Cost Estimate

US 45 from KY 339 (MP 6.135) to I-24 EB Ramps (MP 7.940)
Paducah, KY

Pavement Cost	Qty.	Units	\$ per Unit	Cost
Mill and overlay (Assume RLS implementation as part of an already scheduled resurfacing project. Thus no Mill and Overlay costs)	0	SY	\$12.00	\$0
				\$0
Miscellaneous Items	Qty.	Units	\$ per Unit	Cost
Install curb and gutter	1,050	LF	\$25.00	\$26,250
Signal modification	3	Ea.	\$2,000	\$6,000
Lane-Use Signals	15	Ea.	\$72,000	\$1,080,000
Signal Controllers	6	Ea.	\$10,000	\$60,000
Maintenance of Traffic	1	LS	\$50,000	\$50,000
				\$1,222,250 Subtotal
				\$305,563 Contingency (25%)
				\$61,113 CEI (5%)
				\$45,834.38 Mobilization (3%)
				\$22,917.19 Demobilization (1.5%)
TOTAL CONSTRUCTION COST				\$1,700,000

Reversible Lanes to US 62 Construction Cost Estimate

US 45 from KY 339 (MP 6.135) to US 62 (MP 9.224)

Paducah, KY

Pavement Cost (Pavement needed to widen

US 45 near I-24)

	Qty.	Units	\$ per Unit	Cost
New Asphalt Pavement Areas	1,175	SY	\$80.00	\$94,000
New Concrete Pavement	1,460	SY	\$102.00	\$148,909
New Asphalt Shoulder Areas	195	SY	\$40.00	\$7,800

Mill and overlay (Assume RLS implementation as part of an already scheduled resurfacing project. Thus no Mill and Overlay costs)

0	SY	\$12.00	\$0
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\$250,709

Miscellaneous Items

	Qty.	Units	\$ per Unit	Cost
Install curb and gutter	1,000	LF	\$25.00	\$25,000
Signal modification	5	Ea.	\$2,000	\$10,000
Lane-Use Signals	27	Ea.	\$72,000	\$1,944,000
Signal Controllers	9	Ea.	\$10,000	\$90,000
Maintenance of Traffic	1	LS	\$100,000	\$100,000

\$2,419,709	Subtotal
\$604,927	Contingency (25%)
\$120,985	CEI (5%)
\$90,739.08	Mobilization (3%)
\$45,369.54	Demobilization (1.5%)
\$3,300,000	

TOTAL CONSTRUCTION COST

7 Lane Widening Construction Cost Estimate

US 45 from KY 339 (MP 6.135) to US 62 (MP 9.224)
Paducah, KY

Pavement Cost	Qty.	Units	\$ per Unit	Cost
Widening Areas	37,183	SY	\$80.00	\$2,974,667
Mill and overlay	90,533	SY	\$12.00	\$1,086,400
				\$4,061,067
Miscellaneous Items	Qty.	Units	\$ per Unit	Cost
Earthwork	45,000	CY	\$10.00	\$450,000
Install curb and gutter	17,625	LF	\$25.00	\$440,625
Sidewalk (4")	3,240	SY	\$50.00	\$162,000
Signalization	9	Ea.	\$100,000	\$900,000
Drainage, erosion control, etc.			30% paving	\$1,218,320
Maintenance of Traffic	1	LS	\$400,000.00	\$400,000
				\$7,632,012 Subtotal
				\$1,908,003 Contingency (25%)
				\$763,201 CEI (10%)
				\$286,200.44 Mobilization (3%)
				\$143,100.22 Demobilization (1.5%)
				\$10,700,000
TOTAL CONSTRUCTION COST				