

Clay-Cicero Route 31 Transportation Study

APPENDIX I

Cost estimates

ROUTE 31 IMPLEMENTATION PLAN COST ESTIMATES

Note: none of these total project costs include right-of-way costs

VERPLANK/MUD MILL UPGRADE, MORGAN RD TO RT 11

Assume "highway reconstruction - complete replacement", rural (ditches and shoulders)

Segment length: 4.8 miles
Lanes: 2 lanes
Total lane-miles: 9.6 lane-miles

Construction unit cost: \$1.20 mil/lm
Construction cost: \$11.52 mil

Other costs:
Contingency 25% of construction cost = \$2,880,000
MPT 5% of construction cost = \$576,000
Engineering (inc. scoping, pre & final design) 15% of construction cost = \$1,728,000
Inspection 12% of construction cost = \$1,382,400

TOTAL: \$18,086,400

VERPLANK/MUD MILL UPGRADE, RT 57 TO MORGAN RD

Assume "highway reconstruction - complete replacement", rural (ditches and shoulders)

Segment length: 3.1 miles
Lanes: 2 lanes
Total lane-miles: 6.2 lane-miles

Construction unit cost: \$1.20 mil/lm
Construction cost: \$7.44 mil

Other costs:
Contingency 25% of construction cost = \$1,860,000
MPT 5% of construction cost = \$372,000
Engineering (inc. scoping, pre & final design) 15% of construction cost = \$1,116,000
Inspection 12% of construction cost = \$892,800

TOTAL: \$11,680,800

CLAY COMMERCIAL AREA LOCAL ROADS

Assume "new highway", two lane suburban

Segment length: 3.3 miles
Lanes: 2 lanes
Total lane-miles: 6.6 lane-miles

Construction unit cost: \$3.75 mil/lm
Construction cost: \$24.75 mil

Other costs:
Contingency 25% of construction cost = \$6,187,500
MPT 5% of construction cost = \$1,237,500
Engineering (inc. scoping, pre & final design) 15% of construction cost = \$3,712,500
Inspection 12% of construction cost = \$2,970,000

TOTAL: \$38,857,500

CLAY BUSINESS PARK AREA LOCAL ROADS

Assume "new highway", two lane rural

Segment length: 4.5 miles
Lanes: 2 lanes
Total lane-miles: 9 lane-miles

Construction unit cost: \$3.00 mil/lm
Construction cost: \$27.00 mil

Other costs:
Contingency 25% of construction cost = \$6,750,000
MPT 5% of construction cost = \$1,350,000
Engineering (inc. scoping, pre & final design) 15% of construction cost = \$4,050,000
Inspection 12% of construction cost = \$3,240,000

TOTAL: \$42,390,000

SOULE ROAD REALIGNMENT

Assume "new highway", two lane rural

Segment length: 0.64 miles
Lanes: 2 lanes
Total lane-miles: 1.28 lane-miles

Construction unit cost: \$3.00 mil/lm
Construction cost: \$3.84 mil

Other costs:
Contingency 25% of construction cost = \$960,000
MPT 5% of construction cost = \$192,000
Engineering (inc. scoping, pre & final design) 15% of construction cost = \$576,000
Inspection 12% of construction cost = \$460,800

TOTAL: \$6,028,800