

Appendix C: Detailed Cost Estimates

SR 58 Corridor Study

Alternatives 1 & 2

(Approx. Total Length = 9,000 FT.)

Notes:

1. Estimates are based on ODOT Office of Estimating procedures for budget estimating with unit prices adjusted as needed.

| Alt 1 | Alt 2 |
|----------|------------------|
| 10+00. | Begin Sta. |
| 98+21.16 | End Sta. |
| 8,821 | Tot. Est. Length |
| | 8,809 |

2 lanes per direction @ 26 FT per direction = total width = 52

FT

| Category | Work Item | Unit | Unit \$ | Alt 1 | | Alt 2 | |
|------------------------|------------------------|----------------|---------|-------------------------------------|---------------------|-------------------------------------|---------------------|
| | | | | South Alignment Proposed R/W = 151' | | North Alignment Proposed R/W = 151' | |
| | | | | Quantity | Item Cost | Quantity | Item Cost |
| Roadway | | | | | | | |
| | Excavation | cy | 8 | 35000 | \$280,000 | 35000 | \$280,000 |
| | Fill | cy | 6 | 59000 | \$354,000 | 59000 | \$354,000 |
| Erosion Control | | | | | | | |
| | Seeding & Topsoil | sy | 3.2 | 95073 | \$304,232 | 94944 | \$303,822 |
| | Item 832: SWPPP | each | 1 | 24000 | \$24,000 | 24000 | \$24,000 |
| | Erosion Control Plan | Lump | 10,000 | 1 | \$10,000 | 1 | \$10,000 |
| Drainage | | | | | | | |
| | Underdrain | ft | 8 | 35285 | \$282,277 | 35237 | \$281,896 |
| | Closed Storm System | per ft of road | 200 | 8,821 | \$1,764,232 | 8,809 | \$1,761,852 |
| | Post Construction BMP | Lump | 150,000 | - | \$150,000 | - | \$150,000 |
| Culverts | | | | | | | |
| | Small <10' | ft | 1500 | 175 | \$262,500 | 175 | \$262,500 |
| Pavement | | | | | | | |
| | Pavement | sy | 50 | 50967 | \$2,548,335 | 50898 | \$2,544,897 |
| | Subgrade Stabilization | sy | 2.5 | 50967 | \$127,417 | 50898 | \$127,245 |
| | Curb | ft | 4 | 35285 | \$141,139 | 35237 | \$140,948 |
| | Walk (Brick Pavers) | sf | 15 | 88212 | \$1,323,174 | 88093 | \$1,321,389 |
| | Curb Ramp | each | 700 | 12 | \$8,400 | 12 | \$8,400 |
| Intersections | | | | | | | |
| | Pavement | sy | 50 | 3200 | \$160,000 | 3200 | \$160,000 |
| | Subgrade Stabilization | sy | 2.5 | 3200 | \$8,000 | 3200 | \$8,000 |
| | Curb Ramp | each | 700 | 48 | \$33,600 | 48 | \$33,600 |
| Traffic Control | | | | | | | |
| | Signs | mile | 32,500 | 0.00 | \$0 | 0.00 | \$0 |
| | Pavement Marking | mile | 4,000 | 0.00 | \$0 | 0.00 | \$0 |
| | Signal | each | 100,000 | 2 | \$200,000 | 2 | \$200,000 |
| Utilities | | | | | | | |
| | 12" Water Main | ft | 150 | 8821 | \$1,323,174 | 8809 | \$1,321,389 |
| | Hydrants | each | 4,500 | 59 | \$265,500 | 59 | \$265,500 |
| | Sanitary | ft | 100 | 8821 | \$882,116 | 8809 | \$880,926 |
| | Gas | ft | 25 | 8821 | \$220,529 | 8809 | \$220,232 |
| | Electric | lump | 300,000 | 1 | \$300,000 | 1 | \$300,000 |
| | Street Lighting | ft | 40 | 8,821 | \$352,846 | 8,809 | \$352,370 |
| Landscaping | | | | | | | |
| | Shrubs | each | 75 | 120 | \$9,000 | 120 | \$9,000 |
| | Deciduous Tree | each | 600 | 132 | \$79,200 | 132 | \$79,200 |
| | Evergreen Tree | each | 300 | 60 | \$18,000 | 60 | \$18,000 |
| Environmental | | | | | | | |
| | Wetland Bank Purchase | acre | 35,000 | 0.03 | \$1,205 | 0.95 | \$33,345 |
| Sub-Total | | | | | \$10,972,625 | | \$10,960,596 |
| Right of Way | | | | | | | |
| | RW Costs | sq ft | 1.5 | 1331995 | \$1,997,993 | 1330198 | \$1,995,297 |
| Misc. Costs | | | | | | | |
| | Performance Bond | Add 0.50% | | 0.0050 | \$54,863 | 0.0050 | \$54,803 |
| | Field Office, Type B | month | 1,800 | 12 | \$21,600 | 12 | \$21,600 |
| | Mobilization | Lump | 2% | | \$219,452 | | \$219,212 |
| | Lay Out Stakes | Add 0.50% | | 0.0050 | \$54,863 | 0.0050 | \$54,803 |
| | MOT | Add .5% | | 0.005 | \$54,863 | 0.005 | \$54,803 |
| Contingency | | | | | | | |
| | Add 35% | | | 0.35 | \$3,840,419 | 0.35 | \$3,836,209 |
| Total | | | | | \$17,216,678 | | \$17,197,323 |
| Inflation | | | | | | | |
| | Add 22% | | | 0.22 | \$3,787,669 | 0.22 | \$3,783,411 |
| GRAND TOTAL | | | | | \$21,004,347 | | \$20,980,733 |

Preliminary Engineering
Construction Engineering and Inspection

\$1,721,668
\$2,100,435

\$1,719,732
\$2,098,073

Total Including Engineering

\$24,826,449

\$24,798,539

Note: The costs shown in this estimate represent an estimate of probable construction costs prepared in good faith and with reasonable care. HNTB has no control over the costs of construction labor, materials, or equipment, nor over competitive bidding or negotiating methods and does not make any commitment or assume any duty to assure that bids or negotiated prices will not vary from this estimate.

SR 58 Corridor Study Existing Facilities Upgrades

Notes:

1. Estimates do not include possible utility relocation costs.
2. Estimates are based on ODOT Office of Estimating procedures for budget estimating with unit prices adjusted as needed.

| | | |
|---------------------|------------------|---------------------|
| SR 58 @ I-80 | | SR 58 @ M.R. |
| 850 | Tot. Est. Length | 739 |

turn lane width = 13 FT

| Category | Work Item | Unit | Unit \$ | SR 58 @ Turnpike/New Devel. | | SR 58 @ Middle Ridge Road | | Middle Ridge @ Pyle SA Rd | | TOTAL |
|------------------------|------------------------|----------------|---------|-----------------------------|------------------|---------------------------|------------------|---------------------------|------------------|--------------------|
| | | | | Proposed R/W = _' | | Proposed R/W = _' | | | | |
| | | | | Quantity | Item Cost | Quantity | Item Cost | Quantity | Item Cost | |
| Roadway | | | | | | | | | | \$215,045 |
| | Pavement Removal | sy | 8 | 567 | \$4,533 | 493 | \$3,941 | 0 | \$0 | |
| | Walk Removal | sf | 1 | 0 | \$0 | 0 | \$0 | 0 | \$0 | |
| | Excavation | cy | 8 | 5525 | \$44,200 | 4804 | \$38,428 | 0 | \$0 | |
| | Fill | cy | 6 | 11050 | \$66,300 | 9607 | \$57,642 | 0 | \$0 | |
| Erosion Control | | | | | | | | | | \$27,650 |
| | Seeding & Topsoil | sy | 3.2 | 944 | \$3,022 | 821 | \$2,628 | 0 | \$0 | |
| | Item 832: SWPPP | each | 1 | 6000 | \$6,000 | 6000 | \$6,000 | 0 | \$0 | |
| | Erosion Control Plan | Lump | 5,000 | 1 | \$5,000 | 1 | \$5,000 | 0 | \$0 | |
| Drainage | | | | | | | | | | \$382,112 |
| | Underdrain | ft | 8 | 950 | \$7,600 | 839 | \$6,712 | 0 | \$0 | |
| | Closed Storm System | per ft of road | 200 | 850 | \$170,000 | 739 | \$147,800 | 0 | \$0 | |
| | Post Construction BMP | Lump | 25,000 | - | \$25,000 | - | \$25,000 | - | \$0 | |
| Pavement | | | | | | | | | | \$162,846 |
| | Pavement | sy | 50 | 1192 | \$59,583 | 1031 | \$51,567 | 0 | \$0 | |
| | Subgrade Stabilization | sy | 2.5 | 1228 | \$3,069 | 1067 | \$2,669 | 0 | \$0 | |
| | Driveway & Apron | each | 1200 | 1 | \$1,200 | 7 | \$8,400 | 0 | \$0 | |
| | Curb | ft | 4 | 850 | \$3,400 | 739 | \$2,956 | 0 | \$0 | |
| | Walk | sf | 3.6 | 4250 | \$15,300 | 3695 | \$13,302 | 0 | \$0 | |
| | Curb Ramp | each | 700 | 0 | \$0 | 2 | \$1,400 | 0 | \$0 | |
| Traffic Control | | | | | | | | | | \$211,586 |
| | Signs | mile | 32,500 | 0.16 | \$5,232 | 0.14 | \$4,549 | 0.00 | \$0 | |
| | Pavement Marking | mile | 6,000 | 0.16 | \$966 | 0.14 | \$840 | 0.00 | \$0 | |
| | Signal | each | 100,000 | 0 | \$0 | 1 | \$100,000 | 1 | \$100,000 | |
| Sub-Total | | | | | \$420,406 | | \$478,833 | | \$100,000 | \$999,239 |
| Right of Way | | | | | | | | | | |
| | RW Costs | sq ft | 1.5 | 8500 | \$12,750 | 7390 | \$11,085 | 0 | \$0 | \$23,835 |
| Misc. Costs | | | | | | | | | | \$79,939 |
| | Performance Bond | Add 0.50% | | 0.0050 | \$2,102 | 0.0050 | \$2,394 | 0.0050 | \$500 | |
| | Mobilization | Lump | 2% | | \$8,408 | | \$9,577 | | \$2,000 | |
| | Lay Out Stakes | Add 0.50% | | 0.0050 | \$2,102 | 0.0050 | \$2,394 | 0.0050 | \$500 | |
| | MOT | Add 5% | | 0.05 | \$21,020 | 0.05 | \$23,942 | 0.05 | \$5,000 | |
| Contingency | | Add 35% | | 0.35 | \$147,142 | 0.35 | \$167,591 | 0.35 | \$35,000 | \$314,734 |
| Total | | 2006 | | | \$613,931 | | \$695,816 | | \$143,000 | \$1,309,747 |
| Inflation | | Add 22% | | 0.22 | \$135,065 | 0.22 | \$153,079 | 0.22 | \$31,460 | \$288,144 |
| GRAND TOTAL | | 2010 | | | \$748,996 | | \$848,895 | | \$174,460 | \$1,597,891 |

| | | | | | |
|--|--|------------------|--------------------|------------------|--------------------|
| Preliminary Engineering | | \$61,393 | \$69,582 | \$14,300 | \$145,275 |
| Construction Engineering and Inspection | | \$74,900 | \$84,890 | \$17,446 | \$177,235 |
| Total Including Engineering | | \$885,288 | \$1,003,366 | \$206,206 | \$2,094,861 |

Note: The costs shown in this estimate represent an estimate of probable construction costs prepared in good faith and with reasonable care. HNTB has no control over the costs of construction labor, materials, or equipment, nor over competitive bidding or negotiating methods and does not make any commitment or assume any duty to assure that bids or negotiated prices will not vary from this estimate.