

Appendix G

Cost Estimates

Operational and Safety Cost Estimate - Full Corridor

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 28,000
Pavt, Rem	\$ 8,000
Embankment, CIP	\$ 5,000
Excavation, Earth	\$ 17,000
Subbase, CIP	\$ 17,000
Aggregate Base, 6 inch	\$ 31,000
Underdrain, Subbase, 6 inch	\$ 19,000
Cold Milling HMA Surface	\$ 24,000
HMA, 3E3	\$ 35,000
HMA, 4E3	\$ 380,000
Conc Base Cse, Nonreinf, 6 inch	\$ 13,000
Curb and Gutter, Conc, Det B2	\$ 112,000
Sidewalk, Conc, 4 inch	\$ 39,000
Slope Restoration, Type A	\$ 15,000
Signal: Convert to Box	\$ 200,000
Roadway Total	\$ 943,000
Signing/Pavement Markings (3%)	\$ 31,000
Maintenance of Traffic (12%)	\$ 115,000
Erosion Control/Turf Establishment (3%)	\$ 31,000
Drainage (10%)	\$ 94,900
Street Lighting (10%)	\$ 94,900
Other Percentage Cost Total	\$ 390,000
Contingencies (20% of Construction Total)	\$ 268,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 60,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 180,000
Utilities	\$ -
Right of Way	\$ -
Miscellaneous Total	\$ 508,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 296,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 230,000
Engineering Total	\$ 526,000
Grand Total	\$ 2,367,000

Operational and Safety Cost Estimate - 14th Street

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 8,000
Pavt, Rem	\$ 1,000
Embankment, CIP	\$ 1,000
Excavation, Earth	\$ 5,000
Subbase, CIP	\$ 5,000
Aggregate Base, 6 inch	\$ 9,000
Underdrain, Subbase, 6 inch	\$ 5,000
Cold Milling HMA Surface	\$ 10,000
HMA, 3E3	\$ 10,000
HMA, 4E3	\$ 165,000
Conc Base Cse, Nonreinf, 6 inch	\$ 1,000
Curb and Gutter, Conc, Det B2	\$ 30,000
Sidewalk, Conc, 4 inch	\$ 16,000
Slope Restoration, Type A	\$ 2,000
Signal: Convert to Box	\$ 100,000
Roadway Total	\$ 368,000
Signing/Pavement Markings (3%)	\$ 12,000
Maintenance of Traffic (12%)	\$ 45,000
Erosion Control/Turf Establishment (3%)	\$ 12,000
Drainage (10%)	\$ 37,000
Street Lighting (10%)	\$ 37,000
Other Percentage Cost Total	\$ 150,000
Contingencies (20% of Construction Total)	\$ 104,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 20,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 70,000
Utilities	\$ -
Right of Way	\$ -
Miscellaneous Total	\$ 194,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 114,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 90,000
Engineering Total	\$ 204,000
Grand Total	\$ 916,000

Operational and Safety Cost Estimate - 11th Street

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 9,000
Pavt, Rem	\$ 2,000
Embankment, CIP	\$ 2,000
Excavation, Earth	\$ 5,000
Subbase, CIP	\$ 5,000
Aggregate Base, 6 inch	\$ 10,000
Underdrain, Subbase, 6 inch	\$ 7,000
Cold Milling HMA Surface	\$ 6,000
HMA, 3E3	\$ 11,000
HMA, 4E3	\$ 68,000
Conc Base Cse, Nonreinf, 6 inch	\$ 8,000
Curb and Gutter, Conc, Det B2	\$ 45,000
Sidewalk, Conc, 4 inch	\$ 17,000
Slope Restoration, Type A	\$ 11,000
Signal: Convert to Box	\$ -
Roadway Total	\$ 206,000
Signing/Pavement Markings (3%)	\$ 7,000
Maintenance of Traffic (12%)	\$ 25,000
Erosion Control/Turf Establishment (3%)	\$ 7,000
Drainage (10%)	\$ 21,000
Street Lighting (10%)	\$ 21,000
Other Percentage Cost Total	\$ 90,000
Contingencies (20% of Construction Total)	\$ 60,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 20,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 40,000
Utilities	\$ -
Right of Way	\$ -
Miscellaneous Total	\$ 120,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 67,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 50,000
Engineering Total	\$ 117,000
Grand Total	\$ 533,000

Operational and Safety Cost Estimate - Grandview Parkway

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 11,000
Pavt, Rem	\$ 5,000
Embankment, CIP	\$ 2,000
Excavation, Earth	\$ 7,000
Subbase, CIP	\$ 7,000
Aggregate Base, 6 inch	\$ 12,000
Underdrain, Subbase, 6 inch	\$ 7,000
Cold Milling HMA Surface	\$ 8,000
HMA, 3E3	\$ 14,000
HMA, 4E3	\$ 147,000
Conc Base Cse, Nonreinf, 6 inch	\$ 4,000
Curb and Gutter, Conc, Det B2	\$ 37,000
Sidewalk, Conc, 4 inch	\$ 6,000
Slope Restoration, Type A	\$ 2,000
Signal: Convert to Box	\$ 100,000
Roadway Total	\$ 369,000
Signing/Pavement Markings (3%)	\$ 12,000
Maintenance of Traffic (12%)	\$ 45,000
Erosion Control/Turf Establishment (3%)	\$ 12,000
Drainage (10%)	\$ 36,900
Street Lighting (10%)	\$ 36,900
Other Percentage Cost Total	\$ 150,000
Contingencies (20% of Construction Total)	\$ 104,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 20,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 70,000
Utilities	\$ -
Right of Way	\$ -
Miscellaneous Total	\$ 194,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 115,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 90,000
Engineering Total	\$ 205,000
Grand Total	\$ 918,000

Preferred Alternative Cost Estimate - Full Corridor

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 79,000
Pavt, Rem	\$ 136,000
Embankment, CIP	\$ 33,000
Excavation, Earth	\$ 153,000
Subbase, CIP	\$ 147,000
Aggregate Base, 6 inch	\$ 279,000
Underdrain, Subbase, 6 inch	\$ 74,000
Cold Milling HMA Surface	\$ 31,000
HMA, 3E3	\$ 313,000
HMA, 4E3	\$ 785,000
Conc Base Cse, Nonreinf, 6 inch	\$ 48,000
Curb and Gutter, Conc, Det B2	\$ 437,000
Sidewalk, Conc, 4 inch	\$ 190,000
Slope Restoration, Type A	\$ 64,000
Signal Upgrades	\$ 600,000
Roadway Total	\$ 2,800,000
Signing/Pavement Markings (3%)	\$ 110,000
Maintenance of Traffic (12%)	\$ 350,000
Erosion Control/Turf Establishment (3%)	\$ 110,000
Drainage (10%)	\$ 300,000
Street Lighting (10%)	\$ 300,000
Other Percentage Cost Total	\$ 1,170,000
Contingencies (20% of Construction Total)	\$ 810,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 150,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 510,000
Utilities	\$ 310,000
Right of Way	\$ 5,425,000
Miscellaneous Total	\$ 7,205,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 900,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 660,000
Miscellaneous Total	\$ 1,560,000
Grand Total	\$ 12,735,000

Preferred Alternative Cost Estimate - Fourteenth Street

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 26,000
Pavt, Rem	\$ 70,000
Embankment, CIP	\$ 15,000
Excavation, Earth	\$ 72,000
Subbase, CIP	\$ 69,000
Aggregate Base, 6 inch	\$ 132,000
Underdrain, Subbase, 6 inch	\$ 25,000
Cold Milling HMA Surface	\$ 5,000
HMA, 3E3	\$ 148,000
HMA, 4E3	\$ 181,000
Conc Base Cse, Nonreinf, 6 inch	\$ 35,000
Curb and Gutter, Conc, Det B2	\$ 148,000
Sidewalk, Conc, 4 inch	\$ 57,000
Slope Restoration, Type A	\$ 15,000
Signal Upgrades	\$ -
Roadway Total	\$ 1,000,000
Signing/Pavement Markings (3%)	\$ 30,000
Maintenance of Traffic (12%)	\$ 120,000
Erosion Control/Turf Establishment (3%)	\$ 30,000
Drainage (10%)	\$ 100,000
Street Lighting (10%)	\$ 100,000
Other Percentage Cost Total	\$ 380,000
Contingencies (20% of Construction Total)	\$ 280,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 50,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 180,000
Utilities	\$ 40,000
Right of Way	\$ 700,000
Miscellaneous Total	\$ 1,250,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 310,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 230,000
Miscellaneous Total	\$ 540,000
Grand Total	\$ 3,170,000

Preferred Alternative Cost Estimate - Eleventh Street

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 17,000
Pavt, Rem	\$ 7,000
Embankment, CIP	\$ 4,000
Excavation, Earth	\$ 17,000
Subbase, CIP	\$ 16,000
Aggregate Base, 6 inch	\$ 31,000
Underdrain, Subbase, 6 inch	\$ 19,000
Cold Milling HMA Surface	\$ 11,000
HMA, 3E3	\$ 34,000
HMA, 4E3	\$ 214,000
Conc Base Cse, Nonreinf, 6 inch	\$ 8,000
Curb and Gutter, Conc, Det B2	\$ 114,000
Sidewalk, Conc, 4 inch	\$ 36,000
Slope Restoration, Type A	\$ 14,000
Signal Upgrades	\$ 200,000
Roadway Total	\$ 550,000
Signing/Pavement Markings (3%)	\$ 20,000
Maintenance of Traffic (12%)	\$ 70,000
Erosion Control/Turf Establishment (3%)	\$ 20,000
Drainage (10%)	\$ 60,000
Street Lighting (10%)	\$ 60,000
Other Percentage Cost Total	\$ 230,000
Contingencies (20% of Construction Total)	\$ 160,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 30,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 100,000
Utilities	\$ -
Right of Way	\$ -
Miscellaneous Total	\$ 290,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 180,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 130,000
Miscellaneous Total	\$ 310,000
Grand Total	\$ 1,380,000

Preferred Alternative Cost Estimate - Seventh Street

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 5,000
Pavt, Rem	\$ 2,000
Embankment, CIP	\$ 1,000
Excavation, Earth	\$ 4,000
Subbase, CIP	\$ 4,000
Aggregate Base, 6 inch	\$ 6,000
Underdrain, Subbase, 6 inch	\$ 3,000
Cold Milling HMA Surface	\$ 4,000
HMA, 3E3	\$ 7,000
HMA, 4E3	\$ 68,000
Conc Base Cse, Nonreinf, 6 inch	\$ -
Curb and Gutter, Conc, Det B2	\$ 16,000
Sidewalk, Conc, 4 inch	\$ 20,000
Slope Restoration, Type A	\$ 3,000
Signal Upgrades	\$ 200,000
Roadway Total	\$ 150,000
Signing/Pavement Markings (3%)	\$ 10,000
Maintenance of Traffic (12%)	\$ 20,000
Erosion Control/Turf Establishment (3%)	\$ 10,000
Drainage (10%)	\$ 20,000
Street Lighting (10%)	\$ 20,000
Other Percentage Cost Total	\$ 80,000
Contingencies (20% of Construction Total)	\$ 50,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 10,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 30,000
Utilities	\$ 90,000
Right of Way	\$ 1,575,000
Miscellaneous Total	\$ 1,755,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 60,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 40,000
Miscellaneous Total	\$ 100,000
Grand Total	\$ 2,085,000

Preferred Alternative Cost Estimate - Front Street

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 12,000
Pavt, Rem	\$ 1,000
Embankment, CIP	\$ 3,000
Excavation, Earth	\$ 13,000
Subbase, CIP	\$ 13,000
Aggregate Base, 6 inch	\$ 24,000
Underdrain, Subbase, 6 inch	\$ 7,000
Cold Milling HMA Surface	\$ 10,000
HMA, 3E3	\$ 27,000
HMA, 4E3	\$ 188,000
Conc Base Cse, Nonreinf, 6 inch	\$ 1,000
Curb and Gutter, Conc, Det B2	\$ 42,000
Sidewalk, Conc, 4 inch	\$ 32,000
Slope Restoration, Type A	\$ 2,000
Signal Upgrades	\$ 200,000
Roadway Total	\$ 380,000
Signing/Pavement Markings (3%)	\$ 20,000
Maintenance of Traffic (12%)	\$ 50,000
Erosion Control/Turf Establishment (3%)	\$ 20,000
Drainage (10%)	\$ 40,000
Street Lighting (10%)	\$ 40,000
Other Percentage Cost Total	\$ 170,000
Contingencies (20% of Construction Total)	\$ 110,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 20,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 70,000
Utilities	\$ 170,000
Right of Way	\$ 2,975,000
Miscellaneous Total	\$ 3,345,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 120,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 90,000
Miscellaneous Total	\$ 210,000
Grand Total	\$ 4,105,000

Preferred Alternative Cost Estimate - Grandview Parkway

Item Description	Cost Estimate
Curb and Gutter, Rem	\$ 19,000
Pavt, Rem	\$ 56,000
Embankment, CIP	\$ 10,000
Excavation, Earth	\$ 47,000
Subbase, CIP	\$ 45,000
Aggregate Base, 6 inch	\$ 86,000
Underdrain, Subbase, 6 inch	\$ 20,000
Cold Milling HMA Surface	\$ 1,000
HMA, 3E3	\$ 97,000
HMA, 4E3	\$ 134,000
Conc Base Cse, Nonreinf, 6 inch	\$ 4,000
Curb and Gutter, Conc, Det B2	\$ 117,000
Sidewalk, Conc, 4 inch	\$ 45,000
Slope Restoration, Type A	\$ 30,000
Signal Upgrades	\$ -
Roadway Total	\$ 720,000
Signing/Pavement Markings (3%)	\$ 30,000
Maintenance of Traffic (12%)	\$ 90,000
Erosion Control/Turf Establishment (3%)	\$ 30,000
Drainage (10%)	\$ 80,000
Street Lighting (10%)	\$ 80,000
Other Percentage Cost Total	\$ 310,000
Contingencies (20% of Construction Total)	\$ 210,000
Contractor Staking and Errors (3% of Construction Total and Contingencies)	\$ 40,000
Mobilization (10% of Construction Total, Contingencies and Staking)	\$ 130,000
Utilities	\$ 10,000
Right of Way	\$ 175,000
Miscellaneous Total	\$ 565,000
Professional Engineering (16% of all but ROW and Utility Relocation)	\$ 230,000
Construction Engineering (12% of all but ROW and Utility Relocation)	\$ 170,000
Miscellaneous Total	\$ 400,000
Grand Total	\$ 1,995,000