APPENDIX G

NORTHERN PARKWAY ALTERNATIVE 3 ESTIMATED PROJECT COST

Project Estimated Cost (2009 Dollars) 6/29/2009

| Segment | ROW | Design | Construction | Total |
|-------------------------|---------------|--------------|---------------|---------------|
| Sarival Avenue | \$2,703,000 | \$1,274,059 | \$15,925,738 | \$19,902,797 |
| | | | | |
| Reems Road | \$3,706,200 | \$1,688,789 | \$21,109,868 | \$26,504,858 |
| Bullard Avenue | \$5,734,800 | \$1,325,911 | \$16,573,890 | \$23,634,601 |
| BNSF Webb Spur Crossing | \$0 | \$238,172 | \$2,977,152 | \$3,215,324 |
| Litchfield Road | \$3,762,600 | \$2,014,500 | \$25,181,254 | \$30,958,355 |
| Dysart Road | \$4,840,031 | \$3,338,967 | \$41,737,085 | \$49,916,083 |
| El Mirage Road | \$6,355,523 | \$4,790,958 | \$59,886,975 | \$71,033,456 |
| 115th Avenue | \$2,013,535 | \$1,706,680 | \$21,333,494 | \$25,053,709 |
| Glen Harbor Blvd. | \$13,690,544 | \$2,582,274 | \$32,278,429 | \$48,551,247 |
| New River Bridge | \$1,373,106 | \$2,052,458 | \$25,655,724 | \$29,081,288 |
| Loop 101 | \$16,986,560 | \$9,926,198 | \$124,077,475 | \$150,990,233 |
| 91st Avenue | \$16,747,397 | \$6,364,611 | \$79,557,633 | \$102,669,640 |
| 83rd Avenue | \$5,075,000 | \$2,949,531 | \$36,869,132 | \$44,893,662 |
| 75th Avenue | \$10,016,000 | \$3,050,171 | \$38,127,132 | \$51,193,303 |
| Grand Avenue | \$7,468,000 | \$4,177,969 | \$52,224,608 | \$63,870,577 |
| Total Costs | \$100,472,296 | \$47,481,247 | \$593,515,588 | \$741,469,131 |

Project Cost Estimate Sarival Road Grade Separated Intersection (Sta 82+00 to Sta 115+00) 6/29/2009

| 6/29/2009 | | | | | |
|---|---------------|----------------------|------------|--------------------|--|
| Description | Unit | Quantity | Unit Cost | Total | |
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 | |
| Subgrade Preparation | SY | 55,742 | 3.00 | \$167,226 | |
| Remove Existing Pavement | SY | 2,191 | 2.00 | \$4,382 | |
| New Bridge Structure | SF | 29,419 | 97.00 | \$2,853,643 | |
| Embankment (Borrow) | CY | 155,000 | 9.00 | \$1,395,000 | |
| Excavation | CY | 7,136 | 5.00 | \$35,680 | |
| Mainline (12" PCCP) | SY | 40,466 | 45.00 | \$1,820,970 | |
| Ramp/Arterial (11" PCCP) | SY | 15,276 | 40.00 | \$611,040 | |
| Mainline/Ramp/Arterial (AB) | CY | 6,194 | 25.00 | \$154,850 | |
| Concrete Curb & Gutter | LF | 5,388 | 15.00 | \$80,820 | |
| Concrete Median Curb | LF | 1,031 | 18.00 | \$18,558 | |
| Sidewalk | SF | 3,258 | 4.50 | \$14,661 | |
| ROW Fence | LF | 6,633 | 10.00 | \$66,330 | |
| Concrete Half Barrier | LF | 2,180 | 45.00 | \$98,100 | |
| Concrete Half Barrier Transition | EA | 2 | 3,000.00 | \$6,000 | |
| Concrete Median Barrier | LF | 2,864 | 65.00 | \$186,160 | |
| Attenuators | EA | 2 | 20,000.00 | \$40,000 | |
| Pavement Marking & Signing | mi | 0.5 | 310,000.00 | \$155,000 | |
| ITS Conduit and Junction Boxes | mi | 0.5 | 100,000.00 | \$50,000 | |
| Roadway Lighting | mi | 0.5 | 250,000.00 | \$125,000 | |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 | |
| Irrigation Relocation | LS | 1 | 713,864.00 | \$713,864 | |
| Utility Relocation | LS | 1 | 202,125.00 | \$202,125 | |
| Drainage | LS | 1 | 406,545.00 | \$406,545 | |
| Landscaping | SF | 215,165 | 1.50 | \$322,748 | |
| Total | | | | \$9,788,702 | |
| | | | | | |
| Traffic Control | | | 4.0% | \$391,548 | |
| Mobilization | | | 8.0% | \$783,096 | |
| Misc. Items (Survey, Contractor QC, dust palliative | , | | 12.1% | \$1,184,433 | |
| furnish water, SWPPP, Communications relocation | , | | | | |
| Potholing) | | | | | |
| Total | | | - | \$12,147,779 | |
| Unidentified Items | | | 15.0% | \$1,822,167 | |
| Total | | | | \$13,969,945 | |
| Construction Administration / Contingencies | | | 14.0% | \$1,955,792 | |
| Total Construction Cost | | | | \$15,925,738 | |
| Engineering and Design | | | 8% | \$1,274,059 | |
| Total Project Cost | | 0.4 | | \$17,199,797 | |
| ROW | Acre 18.02 | \$/acre \$150,000 | | \$2,703,000 | |
| Desident Delegations | Each | \$/ea | | ተ ດ | |
| Resident Relocations | 0 | \$300,000 | | \$0 \$0 | |
| Business Relocations Total BOW Costs | 0 | \$500,000 | | \$0 \$2.702.000 | |
| Total ROW Costs | | | | \$2,703,000 | |
| | | | | | |

\$19,902,797

Project Cost Estimate Reems Road Grade Separated Intersection (Sta 115+00 to 1/2-mile east) 6/29/2009

| | 6/29/2009 | | | | | |
|--|-----------|-----------|--------------|--------------|--|--|
| Description | Unit | Quantity | Unit Cost | Total | | |
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 | | |
| Subgrade Preparation | SY | 79,628 | 3.00 | \$238,884 | | |
| Remove Existing Pavement | SY | 2,179 | 2.00 | \$4,358 | | |
| New Bridge Structure | SF | 24,092 | 103.00 | \$2,481,476 | | |
| Embankment (Borrow) | CY | 247,958 | 9.00 | \$2,231,622 | | |
| Excavation | CY | 23,741 | 5.00 | \$118,705 | | |
| Mainline (12" PCCP) | SY | 56,541 | 45.00 | \$2,544,345 | | |
| Ramp/Arterial (11" PCCP) | SY | 23,086 | 40.00 | \$923,440 | | |
| Mainline, Ramp, and Arterial (AB) | CY | 8,848 | 25.00 | \$221,200 | | |
| Concrete Curb & Gutter | LF | 9,178 | 15.00 | \$137,670 | | |
| Concrete Median Curb | LF | 807 | 18.00 | \$14,526 | | |
| Sidewalk | SF | 5,519 | 4.50 | \$24,836 | | |
| ROW Fence | LF | 11,291 | 10.00 | \$112,910 | | |
| Concrete Half Barrier | LF | 2,563 | 45.00 | \$115,335 | | |
| Concrete Half Barrier Transition | EA | 2 | 3,000.00 | \$6,000 | | |
| Concrete Median Barrier | LF | 4,044 | 65.00 | \$262,860 | | |
| Attenuators | EA | 2 | 20,000.00 | \$40,000 | | |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 | | |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 | | |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 | | |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 | | |
| Irrigation Relocation | LS | 1 | 228,103.00 | \$228,103 | | |
| Utility Relocation | LS | 1 | 143,325.00 | \$143,325 | | |
| Drainage | LS | 1 | 1,247,350.00 | \$1,247,350 | | |
| Landscaping | SF | 638,777 | 1.50 | \$958,166 | | |
| Total | | | | \$12,975,110 | | |
| | | | | | | |
| Traffic Control | | | 4.0% | \$519,004 | | |
| Mobilization | | | 8.0% | \$1,038,009 | | |
| Misc. Items (Survey, Contractor QC, dust palliative, | | | 12.1% | \$1,569,988 | | |
| furnish water, SWPPP, Communications relocation | , | | | | | |
| Potholing) | | | _ | | | |
| Total | | | _ | \$16,102,112 | | |
| | | | | | | |
| Unidentified Items | | | 15.0% | \$2,415,317 | | |
| Total | | | | \$18,517,428 | | |
| | | | | | | |
| Construction Administration / Contingencies | | | 14.0% | \$2,592,440 | | |
| Total Construction Cost | | | | \$21,109,868 | | |
| | | | | | | |
| Engineering and Design | | | 8% | \$1,688,789 | | |
| Total Project Cost | | | | \$22,798,658 | | |
| - | Acre | \$/acre | | • | | |
| ROW | 41.18 | \$90,000 | | \$3,706,200 | | |
| | Each | \$/ea | | | | |
| Resident Relocations | 0 | \$300,000 | | \$0 | | |
| Business Relocations | 0 | \$500,000 | | \$0 | | |
| Total ROW Costs | | | | \$3,706,200 | | |
| | | | | | | |

\$26,504,858

Project Cost Estimate Bullard Road Segment (1/2-mile west and east) 6/29/2009

| Description | Unit | Quantity | Unit Cost | Total |
|---|-------|-----------------|--------------|---------------------------------|
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 |
| Subgrade Preparation | SY | 68,664 | 3.00 | \$205,992 |
| Embankment (Borrow) | CY | 0 | 9.00 | \$0 |
| Excavation | CY | 42,974 | 5.00 | \$214,870 |
| Excavation - Drainage Basin | CY | 431,000 | 5.00 | \$2,155,000 |
| Mainline (12" PCCP) | SY | 68,664 | 45.00 | \$3,089,880 |
| Mainline AB | CY | 7,506 | 25.00 | \$187,650 |
| ROW Fence | LF | 12,897 | 10.00 | \$128,970 |
| Concrete Half Barrier | LF | 2,172 | 45.00 | \$97,740 |
| Concrete Half Barrier Transition | EA | 1 | 3,000.00 | \$3,000 |
| Concrete Median Barrier | LF | 5,231 | 65.00 | \$340,015 |
| Attenuators | EA | 1 | 20,000.00 | \$20,000 |
| Pavement Marking & Signing | mi | 1 | 110,000.00 | \$110,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | 1 | 657,098.00 | \$657,098 |
| Utility Relocation | LS | 1 | 0.00 | \$0 |
| Drainage | LS | 1 | 1,639,144.00 | \$1,639,144 |
| Landscaping | SF | 763,061 | 1.50 | \$1,144,592 |
| Total | | | | \$10,353,951 |
| | | | | |
| Traffic Control | | | 2.0% | \$207,079 |
| Mobilization | | | 8.0% | \$828,316 |
| Misc. Items (Survey, Contractor QC, dust palliative | | | 12.1% | \$1,252,828 |
| furnish water, SWPPP, Communications relocation | ١, | | | |
| Potholing) | | | _ | |
| Total | | | | \$12,642,174 |
| Unidentified Items | | | 45.00/ | #4 000 200 |
| Unidentified Items | | | 15.0% | \$1,896,326 |
| Total | | | | \$14,538,500 |
| Construction Administration / Contingencies | | | 14.0% | \$2,035,390 |
| Total Construction Cost | | | 14.070 | \$16,573,890 |
| Total Collstituction Cost | | | | \$10,373,030 |
| Engineering and Design | | | 8% | \$1,325,911 |
| Total Project Cost | | | 070 | \$17,899,801 |
| | Acre | \$/acre | | Ţ.,,000,001 |
| ROW | 32.36 | \$90,000 | | \$2,912,400 |
| ROW (Drainage Basin in Luke APZ 1) | 47.04 | \$60,000 | | \$2,822,400 |
| (Stanlage Back in Edito / II E 1) | Each | \$/ea | | ΨΞ,322,100 |
| Resident Relocations | 0 | \$300,000 | | \$0 |
| Business Relocations | 0 | \$500,000 | | \$0 |
| Total ROW Costs | Č | 4000,000 | | \$5,734,800 |
| | | | | Ţ = , . U . , U U |

\$23,634,601

Additional Project Cost Estimate BNSF Webb Spur Crossing - Parkway Elevated, 3:1 Embankment Slope 6/29/2009

Unit

Quantity

Unit Cost

Total

\$3,215,324

Description

Additional Project Cost Including ROW

| New Bridge Structure | SF | 8,704 | 180.00 | \$1,566,720 |
|--|------|-----------|--------------|-------------|
| Retaining Wall (MSE) | SF | 5,330 | 55.00 | \$293,150 |
| | | | | \$0 |
| Total | | | | \$1,859,870 |
| Traffic Control | | | 2.0% | \$37,197 |
| Mobilization | | | 8.0% | \$148,790 |
| Misc. Items (Survey, Contractor QC, dust palliative, furnish water, SWPPP, Communications relocation, Potholing) | | | 12.1% | \$225,044 |
| Total | | | - | \$2,270,901 |
| Unidentified Items | | | 15.0% | \$340,635 |
| Total | | | | \$2,611,536 |
| Construction Administration / Contingencies | | | 14.0% | \$365,615 |
| Total Construction Cost | | | | \$2,977,152 |
| Engineering and Design | | | 8% | \$238,172 |
| Total Project Cost | | | | \$3,215,324 |
| | Acre | \$/acre | | |
| ROW | 0.00 | \$90,000 | | \$0 |
| ROW | 0.00 | \$60,000 | | \$0 |
| | Each | \$/ea | | |
| Resident Relocations | 0 | \$300,000 | | \$0 |
| Business Relocations | 0 | \$500,000 | | \$0 |
| Total ROW Costs | | | | \$0 |

Project Cost Estimate Litchfield Road Grade Separated Intersection (1/2-mile west and east) 6/29/2009

Unit

LS

SY

Description

Clearing and Grubbing

Subgrade Preparation

Total Project Cost Including ROW

Quantity

1

131,285

Unit Cost

10,000.00

3.00

Total

\$10,000

\$393,855

\$30,958,355

| Subgrade Preparation | े ा | 131,203 | 3.00 | \$393,633 |
|--|----------------------------|--------------------------------|--------------------------------------|--|
| Remove Existing Pavement | SY | 7,796 | 2.00 | \$15,592 |
| New Bridge Structure | SF | 26,214 | 120.00 | \$3,145,680 |
| Embankment (Borrow) | CY | 0 | 9.00 | \$0 |
| Excavation | CY | 148,496 | 5.00 | \$742,480 |
| Mainline (12" PCCP) | SY | 81,549 | 45.00 | \$3,669,705 |
| Ramp (11" PCCP) | SY | 17,945 | 40.00 | \$717,800 |
| Arterial (AC) | TONS | 10,443 | 63.00 | \$657,909 |
| Mainline, Ramp, and Arterial (AB) | CY | 19,886 | 25.00 | \$497,150 |
| Concrete Curb & Gutter | LF | 15,212 | 15.00 | \$228,180 |
| Concrete Median Curb | LF | 4,968 | 18.00 | \$89,424 |
| Sidewalk | SF | 5,977 | 4.50 | \$26,897 |
| ROW Fence | LF | 12,113 | 10.00 | \$121,130 |
| Concrete Half Barrier | LF | 1,159 | 45.00 | \$52,155 |
| Concrete Half Barrier Transition | EA | 3 | 3,000.00 | \$9,000 |
| Concrete Median Barrier | LF | 5,658 | 65.00 | \$367,770 |
| Attenuators | EA | 3 | 20,000.00 | \$60,000 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1.0 | 250,000.00 | \$250,000 |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | | | |
| | LS | 1 | 913,800.00 | \$913,800 |
| Utility Relocation | | 1 | 112,725.00 | \$112,725 |
| Drainage | LS | 1 | 1,325,640.00 | \$1,325,640 |
| Landscaping | SF | 940,455 | 1.50 | \$1,410,683 |
| | | | | |
| Total | | | | \$15,477,574 |
| | | | | |
| | | | 4 0% | \$619 103 |
| Traffic Control | | | 4.0% 8.0% | \$619,103 \$1,238,206 |
| Traffic Control Mobilization | ۵ | | 8.0% | \$1,238,206 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative | | | | |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation | | | 8.0% | \$1,238,206 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) | | | 8.0% | \$1,238,206 \$1,872,786 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation | | | 8.0% | \$1,238,206 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total | | | 8.0% 12.1% - | \$1,238,206 \$1,872,786 \$19,207,669 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items | | | 8.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total | | | 8.0% 12.1% - | \$1,238,206 \$1,872,786 \$19,207,669 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total | | | 8.0% 12.1% - 15.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies | | | 8.0% 12.1% - | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total | | | 8.0% 12.1% - 15.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost | | | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design | | | 8.0% 12.1% - 15.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost | on, | | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design Total Project Cost | on, Acre | \$/acre | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 \$27,195,755 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design | Acre 52.71 | \$60,000 | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design Total Project Cost ROW | Acre 52.71 Each | \$60,000 \$/ea | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 \$27,195,755 \$3,162,600 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design Total Project Cost ROW Resident Relocations | Acre 52.71 Each 2 | \$60,000 \$/ea \$300,000 | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 \$27,195,755 \$3,162,600 \$600,000 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design Total Project Cost ROW Resident Relocations Business Relocations | Acre 52.71 Each | \$60,000 \$/ea | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 \$27,195,755 \$3,162,600 \$600,000 \$0 |
| Traffic Control Mobilization Misc. Items (Survey, Contractor QC, dust palliative furnish water, SWPPP, Communications relocation Potholing) Total Unidentified Items Total Construction Administration / Contingencies Total Construction Cost Engineering and Design Total Project Cost ROW Resident Relocations | Acre 52.71 Each 2 | \$60,000 \$/ea \$300,000 | 8.0% 12.1% - 15.0% 14.0% | \$1,238,206 \$1,872,786 \$19,207,669 \$2,881,150 \$22,088,820 \$3,092,435 \$25,181,254 \$2,014,500 \$27,195,755 \$3,162,600 \$600,000 |

Project Cost Estimate Dysart Road Grade Separated Intersection (1/2-mile west and east)

Alternative 3 6/29/2009

| [| 6/29/2009 | · | | |
|---|-----------|-----------|--------------|---|
| Description | Unit | Quantity | Unit Cost | Total |
| Clearing and Grubbing | LS | 1 | 20,000.00 | \$20,000 |
| Subgrade Preparation | SY | 129,583 | 3.00 | \$388,749 |
| Remove Existing Pavement | SY | 27,646 | 2.00 | \$55,292 |
| Remove Existing Curb & Gutter | LF | 0 | 6.00 | \$0 |
| New Bridge Structure | SF | 30,708 | 110.00 | \$3,377,880 |
| Embankment (Borrow) | CY | 433,905 | 9.00 | \$3,905,145 |
| Excavation | CY | 30,349 | 5.00 | \$151,745 |
| Mainline & Ramp (PCCP) | SY | 87,910 | 45.00 | \$3,955,950 |
| Arterial (AC) | TONS | 13,690 | 63.00 | \$862,470 |
| Mainline, Ramp, and Arterial (AB) | CY | 23,659 | 25.00 | \$591,475 |
| Concrete Curb & Gutter | LF | 20,792 | 15.00 | \$311,880 |
| Concrete Median Curb | LF | 2,937 | 18.00 | \$52,866 |
| Sidewalk | SF | 40,771 | 4.50 | \$183,470 |
| ROW Fence | LF | 8,500 | 10.00 | \$85,000 |
| Retaining Wall | SF | 94,230 | 55.00 | \$5,182,650 |
| Concrete Half Barrier | LF | 5,888 | 45.00 | \$264,960 |
| Concrete Half Barrier Transition | EA | 2 | 3,000.00 | \$6,000 |
| Concrete Median Barrier | LF | 5,546 | 65.00 | \$360,490 |
| Attenuators | EA | 2 | 20,000.00 | \$40,000 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | 1 | 1,028,243.00 | \$1,028,243 |
| Utility Relocation | LS | 1 | 449,625.00 | \$449,625 |
| Drainage | LS | 1 | 1,826,510.00 | \$1,826,510 |
| Landscaping | SF | 719,048 | 2.00 | \$1,438,096 |
| Total | | | | \$25,448,496 |
| | | | | |
| Traffic Control | | | 5.0% | \$1,272,425 |
| Mobilization | | | 8.0% | \$2,035,880 |
| Misc. Items (Survey, Contractor QC, dust palliative | , | | 12.1% | \$3,079,268 |
| furnish water, SWPPP, Communications relocation | , | | | |
| Potholing) | | | | |
| Total | | | _ | \$31,836,068 |
| | | | | |
| Unidentified Items | | | 15.0% | \$4,775,410 |
| Total | | | | \$36,611,478 |
| | | | | . , , |
| Construction Administration / Contingencies | | | 14.0% | \$5,125,607 |
| Total Construction Cost | | | | \$41,737,085 |
| | | | | , |
| Engineering and Design | | | 8% | \$3,338,967 |
| Total Project Cost | | | 0,0 | \$45,076,052 |
| | Acre | \$/acre | | 4 10,01 0,00= |
| ROW | 43.78 | \$90,000 | | \$3,940,031 |
| | Each | \$/ea | | ψο,ο 10,001 |
| Resident Relocations | 3 | \$300,000 | | \$900,000 |
| Business Relocations | 0 | \$500,000 | | \$0 |
| Total ROW Costs | J | Ψ000,000 | | \$4,840,031 |
| | | | | ψ .,οπο,οο i |

\$49,916,083

Project Cost Estimate El Mirage Road Grade Separated Intersection (1/2-mile west to Station 420+00) Alternative 3 6/29/2009

| Description | Unit | Quantity | Unit Cost | Total |
|---|----------|-------------------|--------------|----------------------------|
| Clearing and Grubbing | LS | quantity 1 | | \$20,000 |
| Subgrade Preparation | SY | 148,257 | 20,000.00 | \$20,000 |
| Remove Existing Pavement | SY | 27,182 | 2.00 | \$54,364 |
| Remove Existing Curb & Gutter | LF | 27,182 | 6.00 | \$34,304 |
| New Bridge Structure (Dysart Drain) | SF | 22,425 | 110.00 | |
| New Bridge Structure (Glendale, El Mirage) | SF | | 110.00 | \$2,466,750 \$4,330,040 |
| | SF SF | 39,364 | | \$12,848,465 |
| New Bridge Structure (Agua Fria River) | CY | 135,247 | 95.00 | |
| Embankment (Borrow) | | 456,711 | 9.00 | \$4,110,399 |
| Excavation | CY SY | 0 | 5.00 | \$0 |
| Mainline & Ramp (PCCP) | | 108,665 | 45.00 | \$4,889,925 |
| Arterial (AC) | TONS | 13,006 | 63.00 | \$819,378 |
| Mainline, Ramp, Arterial (AB) | CY | 25,271 | 25.00 | \$631,775 |
| Concrete Curb & Gutter | LF | 23,004 | 15.00 | \$345,060 |
| Concrete Median Curb | LF | 0 | 18.00 | \$0 |
| Sidewalk | SF | 59,244 | 4.50 | \$266,598 |
| ROW Fence | LF | 11,536 | 10.00 | \$115,360 |
| Retaining Wall | SF | 23,160 | 55.00 | \$1,273,800 |
| Concrete Half Barrier | LF | 4,203 | 45.00 | \$189,135 |
| Concrete Half Barrier Transition | EA | 3 | 3,000.00 | \$9,000 |
| Concrete Median Barrier | LF | 8,933 | 65.00 | \$580,645 |
| Attenuators | EA | 3 | 20,000.00 | \$60,000 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | 1 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 149,625.00 | \$149,625 |
| Drainage | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Landscaping | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Total | | | | \$36,515,090 |
| Traffic Control | | | 5.0% | ¢1 005 755 |
| Mobilization | | | | \$1,825,755 |
| | | | 8.0% | \$2,921,207 |
| Misc. Items (Survey, Contractor QC, dust palliative | | | 12.1% | \$4,418,326 |
| furnish water, SWPPP, Communications relocation | 1, | | | |
| Potholing) | | | - | \$45,000,070 |
| Total | | | | \$45,680,378 |
| Unidentified Items | | | 15.0% | \$6,852,057 |
| Total | | | 10.070 | \$52,532,434 |
| Total | | | | ψ02,002,404 |
| Construction Administration / Contingencies | | | 14.0% | \$7,354,541 |
| Total Construction Cost | | | 14.070 | \$59,886,975 |
| Total Construction Cost | | | | φ39,000,913 |
| Engineering and Design | | | 8% | \$4,790,958 |
| Total Project Cost | | | 0 /0 | \$64,677,933 |
| Total Project Cost | Acre | \$/acre | | φ04,0 <i>11</i> ,933 |
| ROW | 59.51 | \$90,000 | | \$5,355,523 |
| 11011 | Each | \$90,000 \$/ea | | ψυ,υυυ,υΖυ |
| Resident Relocations | 0 | \$300,000 | | \$0 |
| Business Relocations | 2 | \$500,000 | | \$1,000,000 |
| Total ROW Costs | 2 | ψυσυ,σου | | \$6,355,523 |
| | | | | ψυ,υυυ,υ20 |
| | | | | |

\$71,033,456

Project Cost Estimate 115th Ave Segment (Station 420+00 to 455+00) Alternative 3

| 6/29/2009 | | | | | |
|---|-------|-----------|--------------|--------------|--|
| Description | Unit | Quantity | Unit Cost | Total | |
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 | |
| Subgrade Preparation | SY | 71,156 | 3.00 | \$213,468 | |
| Remove Existing Pavement | SY | 13,222 | 2.00 | \$26,444 | |
| Remove Existing Curb & Gutter | LF | 1,400 | 6.00 | \$8,400 | |
| New Bridge Structure | SF | 22,194 | 120.00 | \$2,663,280 | |
| Embankment (Borrow) | CY | 292,431 | 9.00 | \$2,631,879 | |
| Excavation | CY | 0 | 5.00 | \$0 | |
| Mainline & Ramp (PCCP) | SY | 47,832 | 45.00 | \$2,152,440 | |
| Arterial (AC) | TONS | 7,662 | 63.00 | \$482,706 | |
| Mainline & Ramp (AB) | CY | 13,089 | 25.00 | \$327,225 | |
| Concrete Curb & Gutter | LF | 14,106 | 15.00 | \$211,590 | |
| Concrete Median Curb | LF | 0 | 18.00 | \$0 | |
| Sidewalk | SF | 41,916 | 4.50 | \$188,622 | |
| ROW Fence | LF | 0 | 10.00 | \$0 | |
| Retaining Wall | SF | 4,800 | 55.00 | \$264,000 | |
| Concrete Half Barrier | LF | 789 | 45.00 | \$35,505 | |
| Concrete Half Barrier Transition | EA | 0 | 3,000.00 | \$0 | |
| Concrete Median Barrier | LF | 3,500 | 65.00 | \$227,500 | |
| Attenuators | EA | 0 | 20,000.00 | \$0 | |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 | |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 | |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 | |
| Traffic Signals | EA | 1 | 200,000.00 | \$200,000 | |
| Irrigation Relocation | LS | 1 | 0.00 | \$0 | |
| Utility Relocation | LS | 1 | 500,000.00 | \$500,000 | |
| Drainage | LS | 1 | 1,000,000.00 | \$1,000,000 | |
| Landscaping | LS | 1 | 1,000,000.00 | \$1,000,000 | |
| Total | • | | · · · · · · | \$12,803,059 | |
| | | | | | |
| Traffic Control | | | 7.0% | \$896,214 | |
| Mobilization | | | 8.0% | \$1,024,245 | |
| Misc. Items (Survey, Contractor QC, dust palliative | , | | 12.1% | \$1,549,170 | |
| furnish water, SWPPP, Communications relocation | ١, | | | | |
| Potholing) | | | | | |
| Total | | | - | \$16,272,688 | |
| | | | | | |
| Unidentified Items | | | 15.0% | \$2,440,903 | |
| Total | | | | \$18,713,591 | |
| | | | | | |
| Construction Administration / Contingencies | | | 14.0% | \$2,619,903 | |
| Total Construction Cost | | | | \$21,333,494 | |
| | | | | | |
| Engineering and Design | | | 8% | \$1,706,680 | |
| Total Project Cost | | | | \$23,040,173 | |
| • | Acre | \$/acre | | | |
| ROW | 22.37 | \$90,000 | | \$2,013,535 | |
| | Each | \$/ea | | • | |
| Resident Relocations | 0 | \$300,000 | | \$0 | |
| Business Relocations | 0 | \$500,000 | | \$0 | |
| Total ROW Costs | | • | | \$2,013,535 | |
| | | | | | |

\$25,053,709

Project Cost Estimate

Glen Harbor Blvd. (Station 455+00 to New River Bridge West Abutment) Alternative 3 6/29/2009

| | 6/29/2009 | | | |
|---|-----------|-----------|--------------|---|
| Description | Unit | Quantity | Unit Cost | Total |
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 |
| Subgrade Preparation | SY | 122,035 | 3.00 | \$366,105 |
| Remove Existing Pavement | SY | 27,616 | 2.00 | \$55,232 |
| Remove Existing Curb & Gutter | LF | 4,330 | 6.00 | \$25,980 |
| New Bridge Structure (Glen Harbor) | SF | 18,606 | 120.00 | \$2,232,720 |
| New Bridge Structure (Glendale Ave) | SF | 12,831 | 135.00 | \$1,732,185 |
| Embankment (Borrow) | CY | 116,383 | 9.00 | \$1,047,447 |
| Excavation | CY | 601,855 | 5.00 | \$3,009,275 |
| Mainline & Ramp (PCCP) | SY | 76,499 | 45.00 | \$3,442,455 |
| Arterial (AC) | TONS | 14,959 | 63.00 | \$942,417 |
| Mainline, Ramp, and Arterial (AB) | CY | 23,679 | 25.00 | \$591,975 |
| Concrete Curb & Gutter | LF | 23,848 | 15.00 | \$357,720 |
| Concrete Median Curb | LF | 0 | 18.00 | \$0 |
| Sidewalk | SF | 42,492 | 4.50 | \$191,214 |
| ROW Fence | LF | 4,550 | 10.00 | \$45,500 |
| Retaining Wall | SF | 26,840 | 55.00 | \$1,476,200 |
| Concrete Half Barrier | LF | 1,420 | 45.00 | \$63,900 |
| Concrete Half Barrier Transition | EA | 0 | 3,000.00 | \$0 |
| Concrete Median Barrier | LF | 5,711 | 65.00 | \$371,215 |
| Attenuators | EA | 0 | 20,000.00 | \$0 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | 1 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 500,000.00 | \$500,000 |
| Drainage | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Landscaping | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Total | | | | \$19,371,540 |
| | | | | |
| Traffic Control | | | 7.0% | \$1,356,008 |
| Mobilization | | | 8.0% | \$1,549,723 |
| Misc. Items (Survey, Contractor QC, dust palliative, | | | 12.1% | \$2,343,956 |
| furnish water, SWPPP, Communications relocation, | | | | |
| Potholing) | | | _ | |
| Total | | | | \$24,621,227 |
| Unidentified Items | | | 15.0% | \$3,693,184 |
| Total | | | | \$28,314,411 |
| | | | 4.4.00/ | #0.004.040 |
| Construction Administration / Contingencies Total Construction Cost | | | 14.0% | \$3,964,018 |
| Total Construction Cost | | | | \$32,278,429 |
| Engineering and Design | | | 8% | \$2,582,274 |
| Total Project Cost | | | | \$34,860,703 |
| | Acre | \$/acre | | ÷ , , , , , , , , , , , , , , , , , , , |
| ROW | 41.64 | \$300,000 | | \$12,490,544 |
| | Each | \$/ea | | . . |
| Resident Relocations | 4 | \$300,000 | | \$1,200,000 |
| Business Relocations | 0 | \$500,000 | | \$0 |
| Total ROW Costs | | | | \$13,690,544 |
| | | | | |

\$48,551,247

Project Cost Estimate New River Bridge Alternative 3 6/29/2009

| Description | Unit | Quantity | Unit Cost | Total |
|----------------------------|------|----------|-----------|--------------|
| New Bridge Structure | SF | 165,539 | 95.00 | \$15,726,205 |
| Pavement Marking & Signing | LS | 1 | 3,000.00 | \$3,000 |
| Roadway Lighting | LS | 1 | 40,000.00 | \$40,000 |
| | | | | |

| | 1 | | | |
|--|------|-----------|-------|--------------|
| Total | | | | \$15,769,205 |
| Traffic Control | | | 4.0% | \$630,768 |
| Mobilization | | | 8.0% | \$1,261,536 |
| Misc. Items (Survey, Contractor QC, dust palliative | , | | 12.1% | \$1,908,074 |
| furnish water, SWPPP, Communications relocation Potholing) | , | | | |
| Total | | | _ | \$19,569,583 |
| Unidentified Items | | | 15.0% | \$2,935,438 |
| Total | | | | \$22,505,021 |
| Construction Administration / Contingencies | | | 14.0% | \$3,150,703 |
| Total Construction Cost | | | | \$25,655,724 |
| Engineering and Design | | | 8% | \$2,052,458 |
| Total Project Cost | | | | \$27,708,182 |
| | Acre | \$/acre | | |
| ROW | 4.58 | \$300,000 | | \$1,373,106 |
| | Each | \$/ea | | |
| Resident Relocations | 0 | \$300,000 | | \$0 |
| Business Relocations | 0 | \$500,000 | | \$0 |
| Total ROW Costs | | | | \$1,373,106 |
| Total Project Cost Including ROW | | | | \$29,081,288 |

Project Cost Estimate Loop 101 Segment (New River Bridge East Abutment to Sta 555+00) Alternative 3 6/29/2009

| Description | Unit | Quantity | Unit Cost | Total |
|---|-----------|------------------------|--------------|---------------------|
| Clearing and Grubbing | LS | 1 | 20,000.00 | \$20,000 |
| Subgrade Preparation | SY | 100,580 | 3.00 | \$301,740 |
| Remove Existing Pavement | SY | 0 | 2.00 | \$0 |
| Remove Existing Curb & Gutter | LF | 0 | 6.00 | \$0 |
| New Bridge Structures | SF | 336,834 | 120.00 | \$40,420,080 |
| Embankment (Borrow) | CY | 749,294 | 9.00 | \$6,743,646 |
| Excavation | CY | 0 | 5.00 | \$0 |
| PCCP | SY | 100,580 | 45.00 | \$4,526,100 |
| Mainline & Ramp (AC) | TONS | 0 | 63.00 | \$0 |
| Arterial (AC) | TONS | 0 | 63.00 | \$0 |
| Mainline & Ramp & Arterial (AB) | CY | 11,176 | 25.00 | \$279,400 |
| Concrete Curb & Gutter | LF | 0 | 15.00 | \$0 |
| Concrete Median Curb | LF | 0 | 18.00 | \$0 |
| Sidewalk | SF | 0 | 4.50 | \$0 |
| ROW Fence | LF | 10,253 | 10.00 | \$102,530 |
| Retaining Wall | SF | 322,240 | 55.00 | \$17,723,200 |
| Concrete Half Barrier | LF | 20,231 | 45.00 | \$910,395 |
| Concrete Half Barrier Transition | EA | 8 | 3,000.00 | \$24,000 |
| Concrete Median Barrier | LF | 1,425 | 65.00 | \$92,625 |
| Attenuators | EA | 8 | 20,000.00 | \$160,000 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals (103rd, 99th, Loop 101 W & E) | EA | 0 | 187,500.00 | \$0 |
| Irrigation Relocation | LS | 0 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 500,000.00 | \$500,000 |
| Drainage | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Landscaping | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Total | | | | \$74,463,716 |
| | | | | |
| Traffic Control | | | 7.0% | \$5,212,460 |
| Mobilization | | | 8.0% | \$5,957,097 |
| Misc. Items (Survey, Contractor QC, dust palliative | , | | 12.1% | \$9,010,110 |
| furnish water, SWPPP, Communications relocation | , | | | |
| Potholing) | | | _ | |
| Total | | | | \$94,643,383 |
| Unidentified Items | | | 45.00/ | 04.4.400.507 |
| | | | 15.0% | \$14,196,507 |
| Total | | | | \$108,839,890 |
| Construction Administration / Continuousias | | | 44.00/ | 045 007 505 |
| Construction Administration / Contingencies | | | 14.0% | \$15,237,585 |
| Total Construction Cost | | | | \$124,077,475 |
| Engineering and Design | | | 8% | \$9,926,198 |
| Total Project Cost | | | 0 /0 | \$134,003,673 |
| Total Project Cost | Acre | \$/acre | | \$134,003,073 |
| ROW | 36.41 | \$450,000 | | \$16,386,560 |
| 1.Ovv | Each | \$450,000 \$/ea | | φ10,300,300 |
| Resident Relocations | Each 2 | \$/ea \$300,000 | | ¢ ድስስ ስስሳ |
| Business Relocations | 0 | \$500,000 \$500,000 | | \$600,000 \$0 |
| Total ROW Costs | U | φυσυ,σσσ | | \$16,986,560 |
| 10tai 110 VV 003t3 | | | | φ10,300,300 |

\$150,990,233

Project Cost Estimate 91st Avenue (Loop 101 to 87th Ave) (Includes Hayward Ave Connection)

Alternative 3 6/29/2009

| 5 | 6/29/2009 | 1 0: 41: | 112. 6 | - . 1 |
|---|-----------|-----------|--------------|---------------------|
| Description | Unit | Quantity | Unit Cost | Total |
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 |
| Subgrade Preparation | SY | 154,394 | 3.00 | \$463,182 |
| Remove Existing Pavement | SY | 52,096 | 2.00 | \$104,192 |
| Remove Existing Curb & Gutter | LF | 13,790 | 6.00 | \$82,740 |
| New Bridge Structures | SF | 77,686 | 120.00 | \$9,322,320 |
| Embankment (Borrow) | CY | 536,822 | 9.00 | \$4,831,398 |
| Excavation | CY | 0 | 5.00 | \$0 |
| PCCP | SY | 81,021 | 45.00 | \$3,645,945 |
| Arterial AC | TONS | 22,105 | 63.00 | \$1,392,615 |
| Connector Rd AC (Hayward Ave.) | TONS | 999 | 72.00 | \$71,928 |
| Mainline & Ramp & Arterial AB | CY | 31,432 | 25.00 | \$785,800 |
| Connector Rd AB (Hayward Ave) | CY | 1,014 | 30.00 | \$30,420 |
| Concrete Curb & Gutter | LF | 19,684 | 15.00 | \$295,260 |
| Concrete Median Curb | LF | 5,680 | 18.00 | \$102,240 |
| Sidewalk | SF | 87,882 | 4.50 | \$395,469 |
| Retaining Wall | SF | 318,970 | 55.00 | \$17,543,350 |
| Noise Wall (B13-B15) | LS | 1 | 1,090,040.00 | \$1,090,040 |
| Concrete Half Barrier | LF | 13,964 | 45.00 | \$628,380 |
| Concrete Half Barrier Transition | EA | 1 | 3,000.00 | \$3,000 |
| Concrete Median Barrier | LF | 7,278 | 65.00 | \$473,070 |
| Attenuators | EA | 1 | 20,000.00 | \$20,000 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals (93rd, 91st) | EA | 2 | 250,000.00 | \$500,000 |
| Irrigation Relocation | LS | 0 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 3,432,968.88 | \$3,432,969 |
| Drainage | LS | 1 | 861,310.00 | \$861,310 |
| Landscaping | LS | 1 | 1,000,000.00 | \$1,000,000 |
| Total | | <u> </u> | .,000,000.00 | \$47,745,628 |
| Total | | | | ψ+1,1+3,020 |
| Traffic Control | | | 7.0% | \$3,342,194 |
| Mobilization | | | 8.0% | \$3,819,650 |
| Misc. Items (Survey, Contractor QC, dust palliative | | | 12.1% | \$5,777,221 |
| furnish water, SWPPP, Communications relocation | | | 12.170 | Ψ5,777,221 |
| Potholing) | ', | | | |
| Total | | | - | \$60,684,693 |
| lotai | | | | \$00,004,033 |
| Unidentified Items | | | 15.0% | \$9,102,704 |
| | | | 13.0% | |
| Total | | | | \$69,787,397 |
| Construction Administration / Continuous is | | | 4.4.00/ | ¢0 770 000 |
| Construction Administration / Contingencies | | | 14.0% | \$9,770,236 |
| Total Construction Cost | | | | \$79,557,633 |
| Facility and Decima | | | 001 | # 0.004.044 |
| Engineering and Design | | | 8% | \$6,364,611 |
| Total Project Cost | _ | | | \$85,922,243 |
| | Acre | \$/acre | | • |
| ROW | 36.11 | \$450,000 | | \$16,247,397 |
| | Each | \$/ea | | _ |
| Resident Relocations | 0 | \$300,000 | | \$0 |
| Business Relocations | 1 | \$500,000 | | \$500,000 |
| Total ROW Costs | | | | \$16,747,397 |
| | | | | |

Total Project Cost Including ROW

\$102,669,640

Project Cost Estimate 83rd Ave Grade Separated Intersection (87th Ave to 79th Ave) 6/29/2009

Unit

Quantity

Unit Cost

Total

\$44,893,662

Description

| Description | Unit | Quantity | Unit Cost | I otai |
|---|---------------|--------------------|--------------|--|
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 |
| Subgrade Preparation | SY | 94,183 | 3.00 | \$282,549 |
| Remove Existing Pavement | SY | 18,827 | 2.00 | \$37,654 |
| Remove Existing Curb & Gutter | LF | 10,000 | 6.00 | \$60,000 |
| New Bridge Structure | SF | 20,910 | 115.00 | \$2,404,650 |
| Embankment (Borrow) | CY | 56,957 | 9.00 | \$512,613 |
| Excavation | CY | 62,988 | 5.00 | \$314,940 |
| Mainline (11" AC) | TONS | 31,838 | 63.00 | \$2,005,794 |
| Arterial/Ramp (9" AC) | TONS | 14,776 | 63.00 | \$930,888 |
| Connector Rd (3" AC) | TONS | 1,861 | 72.00 | \$133,992 |
| Asphalt Rubber Surface Course (1") | TONS | 2,894 | 115.00 | \$332,810 |
| Mainline (10" AB) | CY | 14,685 | 25.00 | \$367,125 |
| Arterial/Ramp (9" AB) | CY | 7,496 | 25.00 | \$187,400 |
| Connector Rd (6" AB) | CY | 1,889 | 30.00 | \$56,670 |
| Concrete Curb & Gutter | LF | 21,329 | 15.00 | \$319,935 |
| Concrete Median Curb | LF | 7,357 | 18.00 | \$132,426 |
| Sidewalk | SF | 64,586 | 4.50 | \$290,637 |
| Retaining Wall (MSE) | SF | 42,772 | 55.00 | \$2,352,460 |
| Noise Wall (B16) | LS | 1 | 974,400.00 | \$974,400 |
| Concrete Half Barrier | LF | 3,911 | 45.00 | \$175,995 |
| Concrete Half Barrier Transition | EA | 2 | 3,000.00 | \$6,000 |
| Concrete Median Barrier | LF | 1,746 | 65.00 | \$113,490 |
| Attenuators | EA | 2 | 20,000.00 | \$40,000 |
| Pavement Marking & Signing | mi | 1 | 110,000.00 | \$110,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals | LS | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | 1 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 6,601,756.00 | \$6,601,756 |
| Drainage | LS | 1 | 1,921,690.00 | \$1,921,690 |
| Landscaping | LF | 283,575 | 3.00 | \$850,725 |
| Total | | | | \$22,126,599 |
| Traffic Control | | | 7.0% | \$1,548,862 |
| Mobilization | | | 8.0% | \$1,770,128 |
| Misc. Items (Survey, Contractor QC, dust palliative | | | 12.1% | \$2,677,318 |
| furnish water, SWPPP, Communications relocation | • | | 12.1/0 | φ2,077,310 |
| Potholing) | ١, | | | |
| Total | | | _ | \$28,122,907 |
| | | | 4= 00/ | * 4 * 4 * 4 * 4 * * |
| Unidentified Items | | | 15.0% | \$4,218,436 |
| Total | | | | \$32,341,343 |
| Construction Administration / Contingencies | | | 14.0% | \$4,527,788 |
| Total Construction Cost | | | 14.0% | \$4,527,788 \$36,869,132 |
| Total Construction Cost | | | | \$30,009,13 2 |
| Engineering and Design | | | 8% | \$2,949,531 |
| Total Project Cost | | | - / - | \$39,818,662 |
| | Acre | \$/acre | | , , |
| ROW | 16.70 Each | \$250,000 \$/ea | | \$4,175,000 |
| Resident Relocations | 3 | \$300,000 | | \$900,000 |
| Business Relocations | 0 | \$500,000 | | \$900,000 |
| Total ROW Costs | J | ψ500,000 | | \$5, 0 75, 000 |
| | | | | ψο,σι ο,σσο |
| | | | | * |

Project Cost Estimate

75th Ave Grade Separated Intersection (79th Ave to 71st Ave) (Includes SRP Roadway)

| (Includes SRP Roadway) 6/29/2009 | | | | |
|--|------|----------|--------------|--------------|
| Description | Unit | Quantity | Unit Cost | Total |
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 |
| Subgrade Preparation | SY | 100,522 | 3.00 | \$301,566 |
| Remove Existing Pavement | SY | 42,455 | 2.00 | \$84,910 |
| Remove Existing Curb & Gutter | LF | 10,000 | 6.00 | \$60,000 |
| New Bridge Structure | SF | 20,910 | 115.00 | \$2,404,650 |
| Embankment (Borrow) | CY | 88,601 | 9.00 | \$797,409 |
| Excavation | CY | 35,134 | 5.00 | \$175,670 |
| Mainline (11" AC) | TONS | 32,895 | 63.00 | \$2,072,385 |
| Arterial/Ramp (9" AC) | TONS | 14,835 | 63.00 | \$934,605 |
| Arterial (6" AC) | TONS | 4,132 | 63.00 | \$260,316 |
| Connector Rd (3" AC) | TONS | 512 | 72.00 | \$36,864 |
| Mainline & Arterial (10" AB) | CY | 18,666 | 25.00 | \$466,650 |
| Ramp (9" AB) | CY | 7,527 | 25.00 | \$188,175 |
| Connector Rd (AB) | CY | 536 | 30.00 | \$16,080 |
| Concrete Curb & Gutter | LF | 18,983 | 15.00 | \$284,745 |
| Concrete Median Curb | LF | 8,655 | 18.00 | \$155,790 |
| Sidewalk | SF | 74,024 | 4.50 | \$333,108 |
| Retaining Wall (MSE) | SF | 52,059 | 55.00 | \$2,863,245 |
| Noise Wall (B17-B18) | LS | 1 | 1,958,600.00 | \$1,958,600 |
| Concrete Half Barrier | LF | 4,360 | 45.00 | \$196,200 |
| Concrete Half Barrier Transition | EA | 2 | 3,000.00 | \$6,000 |
| Concrete Median Barrier | LF | 2,837 | 65.00 | \$184,405 |
| Attenuators | EA | 2 | 20,000.00 | \$40,000 |
| Pavement Marking & Signing | mi | 1 | 110,000.00 | \$110,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals | EA | 1 | 250,000.00 | \$250,000 |
| Irrigation Relocation | LS | 1 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 5,978,141.13 | \$5,978,141 |
| Drainage | LS | 1 | 1,371,670.00 | \$1,371,670 |
| Landscaping | LF | 330,130 | 3.00 | \$990,390 |
| Total | | | | \$22,881,574 |
| Traffic Control | | | 7.0% | \$1,601,710 |
| Mobilization | | | 8.0% | \$1,830,526 |
| Misc. Items (Survey, Contractor QC, dust palliativ | e, | | 12.1% | \$2,768,670 |
| furnish water, SWPPP, Communications relocation | | | | . , , - |
| Potholing) Total | | | _ | \$29,082,481 |

| Total | | | | \$22,881,574 |
|--|-------|-----------|--------|----------------------|
| Traffic Control | | | 7.0% | \$1,601,710 |
| Mobilization | | | 8.0% | \$1,830,526 |
| Misc. Items (Survey, Contractor QC, dust palliative, | | | 12.1% | \$2,768,670 |
| furnish water, SWPPP, Communications relocation, | | | ,• | 4 =,: 00,0: 0 |
| Potholing) | | | | |
| Total | | | _ | \$29,082,481 |
| | | | | |
| Unidentified Items | | | 15.0% | \$4,362,372 |
| Total | | | | \$33,444,853 |
| Construction Administration / Contingencies | | | 14.0% | \$4,682,279 |
| Total Construction Cost | | | 14.070 | \$38,127,132 |
| Total Construction Cost | | | | ψ30,127,132 |
| Engineering and Design | | | 8% | \$3,050,171 |
| Total Project Cost | | | | \$41,177,303 |
| • | Acre | \$/acre | | |
| ROW | 15.29 | \$400,000 | | \$6,116,000 |
| | Each | \$/ea | | |
| Resident Relocations | 13 | \$300,000 | | \$3,900,000 |
| Business Relocations | 0 | \$500,000 | | \$0 |
| Total ROW Costs | | , | | \$10,016,000 |
| Total Project Cost Including ROW | | | | \$51,193,303 |

Project Cost Estimate Grand Ave Segment (71st Ave to 65th Ave, Grand Ave, Connector Improvements) 6/29/2009

| Description | Unit | Quantity | Unit Cost | Total |
|---|-------|-----------|--------------|--------------|
| Clearing and Grubbing | LS | 1 | 10,000.00 | \$10,000 |
| Subgrade Preparation | SY | 86,189 | 3.00 | \$258,567 |
| Remove Existing Pavement | SY | 35,114 | 2.00 | \$70,228 |
| Remove Existing Curb & Gutter | LF | 18,074 | 6.00 | \$108,444 |
| New Bridge Structure | SF | 118,399 | 141.00 | \$16,694,259 |
| Embankment (Borrow) | CY | 35,601 | 9.00 | \$320,409 |
| Excavation | CY | 34,517 | 5.00 | \$172,585 |
| Flyover PCCP (11.5") | SY | 11,073 | 40.00 | \$442,920 |
| Northern Avenue (9" AC) | TONS | 25,745 | 63.00 | \$1,621,935 |
| Grand (9" AC) | TONS | 11,269 | 63.00 | \$709,947 |
| Flyover (4" AB) | CY | 1,230 | 25.00 | \$30,750 |
| Northern/Grand (AB) | CY | 19,414 | 25.00 | \$485,350 |
| Concrete Curb & Gutter | LF | 17,865 | 15.00 | \$267,975 |
| Concrete Median Curb | LF | 10,484 | 18.00 | \$188,712 |
| Sidewalk | SF | 74,927 | 4.50 | \$337,172 |
| Retaining Wall | SF | 50,948 | 55.00 | \$2,802,140 |
| Concrete Half Barrier | LF | 3,644 | 45.00 | \$163,980 |
| Concrete Half Barrier Transition | EA | 2 | 3,000.00 | \$6,000 |
| Concrete Median Barrier | LF | 2,024 | 65.00 | \$131,560 |
| Attenuators | EA | 2 | 20,000.00 | \$40,000 |
| Pavement Marking & Signing | mi | 1 | 310,000.00 | \$310,000 |
| ITS Conduit and Junction Boxes | mi | 1.0 | 100,000.00 | \$100,000 |
| Roadway Lighting | mi | 1 | 250,000.00 | \$250,000 |
| Traffic Signals (Grand, Connector A2) | LS | 2 | 200,000.00 | \$400,000 |
| Irrigation Relocation | LS | 1 | 0.00 | \$0 |
| Utility Relocation | LS | 1 | 3,019,570.00 | \$3,019,570 |
| Drainage | LS | 1 | 689,645.00 | \$689,645 |
| RR Crossing | LF | 200 | 1,300.00 | \$260,000 |
| Landscaping | LF | 483,290 | 3.00 | \$1,449,870 |
| Total | | | <u> </u> | \$31,342,018 |
| | | | | |
| Traffic Control | | | 7.0% | \$2,193,941 |
| Mobilization | | | 8.0% | \$2,507,361 |
| Misc. Items (Survey, Contractor QC, dust palliative | , | | 12.1% | \$3,792,384 |
| furnish water, SWPPP, Communications relocation | , | | | |
| Potholing) | | | | |
| Total | | | _ | \$39,835,704 |
| | | | | |
| Unidentified Items | | | 15.0% | \$5,975,356 |
| Total | | | | \$45,811,060 |
| | | | | |
| Construction Administration / Contingencies | | | 14.0% | \$6,413,548 |
| Total Construction Cost | | | | \$52,224,608 |
| | | | | |
| Engineering and Design | | | 8% | \$4,177,969 |
| Total Project Cost | | | | \$56,402,577 |
| | Acre | \$/acre | | |
| ROW | 12.42 | \$400,000 | | \$4,968,000 |
| | Each | \$/ea | | |
| Resident Relocations | 0 | \$300,000 | | \$0 |
| Business Relocations | 5 | \$500,000 | | \$2,500,000 |
| Total ROW Costs | | | | \$7,468,000 |
| | | | | |

\$63,870,577