**ORIGINAL TO GENERAL FILES**

D.O.T. 66

# DEPARTMENT OF TRANSPORTATION
# STATE OF GEORGIA

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 322350-, Fayette County STP-209-1(1) SR 74 Widening **OFFICE** Preconstruction

**DATE** May 4, 2006

**FROM** Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

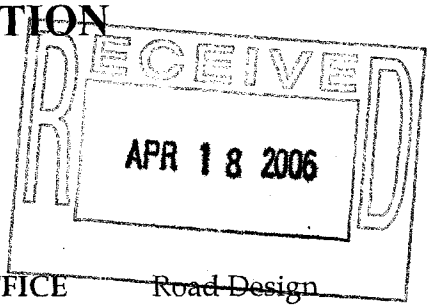
MBP/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Babs Abubakari
Brent Story
Thomas Howell
BOARD MEMBER

# DEPARTMENT OF TRANSPORTATION
# STATE OF GEORGIA




**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-209-1(1) Fayette County
PI # 322350

**OFFICE** ~~Road Design~~

**DATE** April 17, 2006

**FROM** Brent A. Story, P.E., State Road and Airport Design Engineer

**TO** Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT** **Revised Project Concept Report:** ***Widening and reconstruction of SR 74 from South of Crosstown Road to North of SR 54 in Fayette County.***

Attached is the original copy of the Revised Project Concept Report for your further handling and approval in accordance with the Plan Development Process (PDP).

The revised concept, approved October 21, 1997, would have constructed four 3.6m wide lanes with a 6.1m wide raised median from the beginning of the project to Crosstown Road with a design speed of 90km/h (55mph). Six 3.6m lanes with a 6.1m raised median were proposed from Crosstown Road to the end of the project with a design speed of 70km/h (45mph). During the design life of the project, the median policy has been revised requiring a 7.3m raised median. As designed, the project does not meet current median policy for 90km/h (55mph). This revision would lower the speed design to 70km/h (45 mph) for the entire project length.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

BAS:JSS:CB:ss

Attachment: Revised Project Concept Report

cc: Brian Summers, Project Review Engineer
Harvey Keepler, State Environmental/Location Engineer
Keith Golden, State Traffic Safety and Design Engineer
Joe Palladi, State Transportation Planning Administrator
Jamie Simpson, Financial Management Administrator
Thomas Howell, District 3 Engineer

State Transportation Planning Administrator — Date 4/28/06

# REVISED PROJECT CONCEPT REPORT

**Need and Purpose:** See attached Need and Purpose

**Project location:** SR 74 from south of Crosstown Road to north of SR 54 in Peachtree City, Fayette County.

**Description of the approved concept:** The project proposes to widened and reconstruct SR 74 from two lanes to four lane rural section with two lanes in each direction divided by a 6.1 m raised median from mile post 13.699 north to Crosstown Road. From Crosstown Road north to mile post 8.942 the proposed roadway is six-lane urban section with three lanes in each direction separated by a 6.1 m raised median. The length of the project is 4.757 miles (7.705 km)

**PDP Classification:** Major Project

**Federal Oversight:** Full Oversight ( ), Exempt (X), State Funded ( ), or Other ( )

**Functional Classification:** Urban Principal Arterial

**U.S. Route Number(s):** N/A **State Route Number(s):** 74

**Traffic (AADT) as shown in the approved concept:**
Current Year: 15,250 (1995) Design Year: 25,900 (2015)

**Proposed features to be revised:** Reduce speed design to 70 km/hr (45mph) in order to comply with Department policy regarding medians.

**Describe the revised features to be approved:** The proposed revision to the approved concept report is reduce the speed design to 70 km/h for the entire length of project.

**Update traffic data (AADT):**
Current Year: 37,500 (2008) Design Year: 60,500 (2028)

**Programmed/Schedule:**
P.E.: Underway R/W: Underway Construction: June 2006

**Revised cost estimates:**
Construction cost including inflation and E&C: $ 19,940,000.00
1. Right of way: $15,035,000.00
2. Utilities: Local Government

**Is the project located in a Non-attainment area?** Yes (X) No ( )

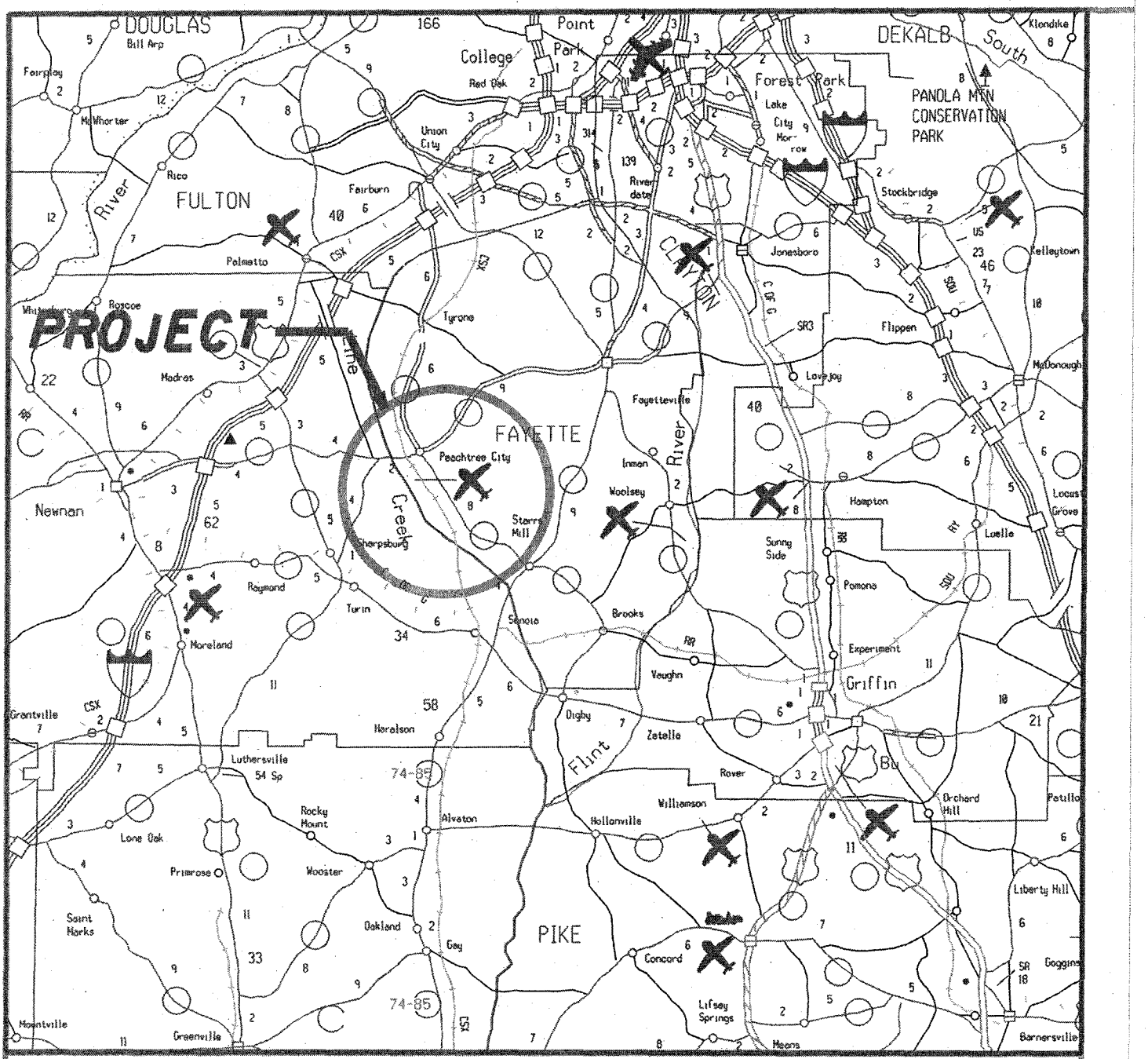
Project STP-209-1(1) is ARC Project No. FA-074A1

**Recommendation:** It is recommended that the proposed revision to the concept be approved for implementation.

Concur: _____
Director of Preconstruction

Approve: _____
Chief Engineer

Attachments:
Location Sketch Map
Updated Traffic Data Diagrams
Cost Estimate
Need and Purpose




# LOCATION SKETCH

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**REVISED PRELIMINARY COST ESTIMATE**

PROJECT NUMBER: STP-209-1(1) COUNTY: FAYETTE

DATE: SEPTEMBER 24, 1997 ESTIMATED LETTING DATE: SEPTEMBER, 2000

PREPARED BY: CLAY BASTIAN

PROJECT LENGTH: 8.13 km

( )PROGRAMMING PROCESS ( )CONCEPT DEVELOPMENT (X)DURING PROJECT DEV.

| PROJECT COST | |
|---|---|
| | |
| A. RIGHT-TO-WAY: | |
| 1. PROPERTY (LAND & EASEMENT) | $ 2,772,000 |
| 2. CONSEQUENTIAL DAMAGES: | $ 30,000 |
| 3. OTHER COST (ADM./COST, INFLATION) | $ 2,277,000 |
| SUBTOTAL:A | $ 5,079,000 |
| B. REIMBURSABLE UTILITIES: | |
| 1. RAILROAD | $ 0 |
| 2. TRANSMISSION LINES | $ 0 |
| 3. SERVICES | $ 0 |
| a. 24" EXISTING WATER LINE ON PRIVATE EASEMENT | LGPA* |
| b. 20" PROPOSED WATER LINE | LGPA* |
| SUBTOTAL:B | $ 0 |
| | |
| | |
| * No LGPA has been signed by Fayette County. | |
| | |
| | |

| PROJECT COST | |
|---|---|
| | |
| 4. LUMP ITEMS: | |
| a. TRAFFIC CONTROL | $ 200,000 |
| b. CLEARING AND GRUBBING | $ 500,000 |
| c. LANDSCAPING (GRASSING) | $ 70,000 |
| d. EROSION CONTROL | $ 50,000 |
| e. DETOURS | $ 75,000 |
| SUBTOTAL:C-4 | $ 895,000 |
| 5. MISCELLANEOUS: | |
| a. LIGHTING | $ 0 |
| b. SIGNING & MARKING | $ 150,000 |
| c. GUARDRAIL | $ 100,000 |
| d. OTHER: | |
| 1) Temporary barrier-method 2 | $ 50,000 |
| 2) Field engineer's office, tp 2 | $ 25,000 |
| 3) Traffic signals (Crosstown Drive, Kelly Drive, Paschall Road, S.R. 54) | $ 200,000 |
| SUBTOTAL:C-5 | $ 525,000 |
| 6. SPECIAL FEATURES SUBTOTAL:C-6 | $ 50,000 |
| | |

**Need & Purpose Statement**

Projects STP-209-1(1)& STP-209-1(2) Fayette Co.

State Route 74

Peachtree City, a planned development community in Fayette County, is emerging as one of the fastest growing areas in the county, which, in turn, is one of the fastest growing counties in the country. State Route 74 is a major north-south corridor through the western portion of Peachtree City. SR 74 provides access to I-85 from west Fayette Co. SR 74 is 24 feet wide with 4' to 8' grass shoulders with added turn lanes at some intersections and business entrances. While the peak travel period occurs during the PM work-to-home transition, traffic flow on SR 74 remains constant throughout the day and passing is difficult.

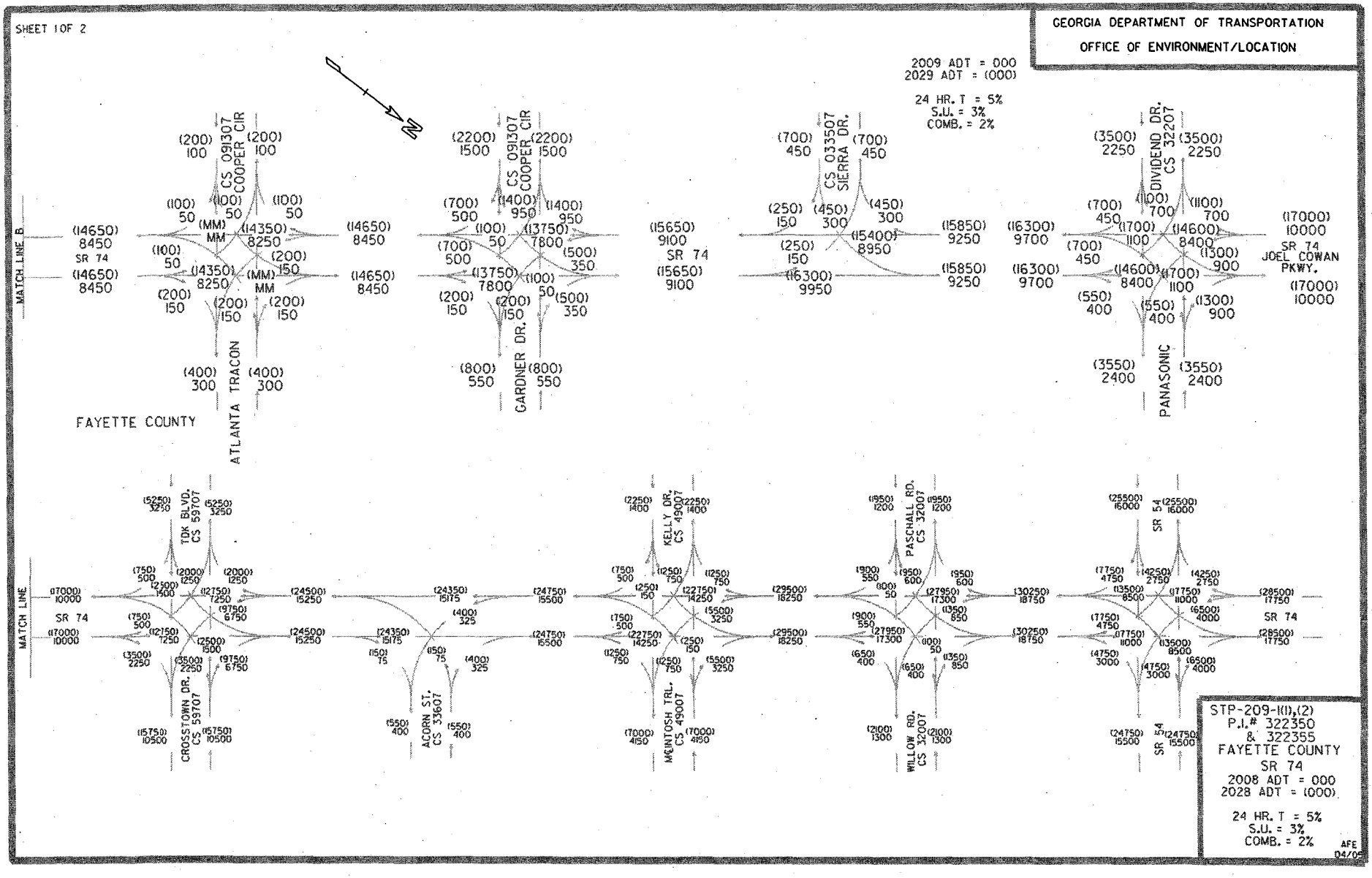
STP-209-1(2) begins at SR 85 and extends northwesterly along SR 74 to a point approximately 1.70 miles south of Crosstown Drive. Development along this portion is primarily undeveloped although there is some rural-residential. This area represents the largest remaining undeveloped area in Peachtree City and is expected to be built-out within 10 years. Existing traffic volumes (1995) range from 7,500 to 8,700 VPD. Projected (2018) volumes are 17-22,500 VPD.

STP-209-1(1) begins at a point approximately 1.70 miles south of Crosstown Drive and extends northwesterly along SR 74 to approximately 0.5 miles north of SR 54. Existing traffic volumes (1995) range from 8,700 to 21,100 VPD. Projected (2018) volumes are 22,500 to 56,200 VPD. Development along the corridor is primarily commercial-industrial with several large developments already in place. Several prime industrial sites remain within the portion of the corridor designated for industrial use.

Improvements are needed to improve the capacity and safety of this facility. The proposed projects will enhance the safety and the mobility for the users of SR 74 and are part of local plans and objectives.

SHEET 1 OF 2

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION




STP-209-(1),(2)
P.I.# 322350
& 322355
FAYETTE COUNTY
SR 74
2008 ADT = 000
2028 ADT = (000)

24 HR. T = 5%
S.U. = 3%
COMB. = 2%

AFE 04/05

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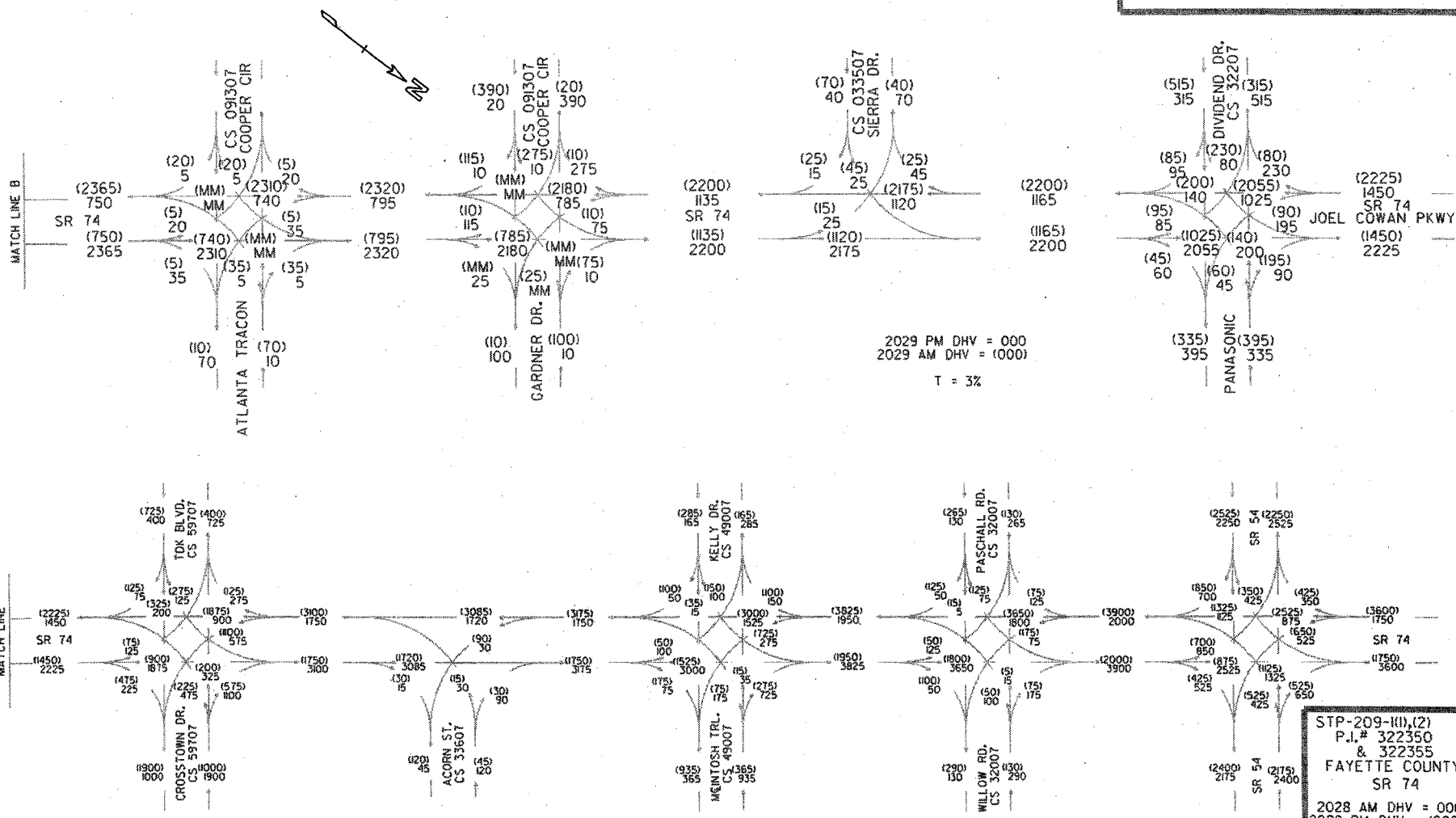
SHEET 2 OF 2

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION




STP-209-1(1),(2)
P.I.# 322350
& 322355
FAYETTE COUNTY
SR 74

2028 AM DHV = 000
2028 PM DHV = (000)

T = 3%

AFE

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# Estimate Report for file "STP-209-1(1)"

**Section Roadway**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 150-1000 | 1 | LS | 307196.73 | TRAFFIC CONTROL - STP-209-1(1) | 307196.73 |
| 150-5000 | 20 | EA | 400.32 | TRAFFIC CONTROL, TEMPORARY SAND LOADED ATTENUATOR MODULE | 8006.40 |
| 153-1300 | 1 | EA | 60238.91 | FIELD ENGINEERS OFFICE TP 3 | 60238.91 |
| 201-1500 | 1 | LS | 1948751.52 | CLEARING & GRUBBING - STP-209-1(1) | 1948751.52 |
| 205-0001 | 88062 | M3 | 4.77 | UNCLASS EXCAV | 420055.74 |
| 206-0002 | 143789 | M3 | 4.27 | BORROW EXCAV, INCL MATL | 613979.03 |
| 310-1101 | 152000 | MG | 14.98 | GR AGGR BASE CRS, INCL MATL | 2276960.00 |
| 318-3000 | 1500 | MG | 15.62 | AGGREGATE SURFACE COURSE | 23430.00 |
| 402-1812 | 12000 | MG | 47.34 | RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME | 568080.00 |
| 402-3190 | 24000 | MG | 42.29 | RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME | 1014960.00 |
| 402-3250 | 81000 | MG | 40.73 | RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 3299130.00 |
| 402-4510 | 19000 | MG | 54.36 | RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME | 1032840.00 |
| 413-1000 | 87000 | L | 0.35 | BITUM TACK COAT | 30450.00 |
| 432-5010 | 1000 | M2 | 3.44 | MILL ASPH CONC PVMT, VARIABLE DEPTH | 3440.00 |
| 441-0014 | 200 | M2 | 28.52 | DRIVEWAY CONCRETE, 100 MM THK | 5704.00 |
| 441-0016 | 800 | M2 | 36.34 | DRIVEWAY CONCRETE, 150 MM THK | 29072.00 |
| 441-0104 | 13500 | M2 | 24.91 | CONC SIDEWALK, 100 MM | 336285.00 |
| 441-0756 | 18000 | M2 | 41.17 | CONCRETE MEDIAN, 200 MM | 741060.00 |
| 441-4020 | 150 | M2 | 36.43 | CONC VALLEY GUTTER, 150 MM | 5464.50 |
| 441-4050 | 100 | M2 | 44.88 | CONC VALLEY GUTTER WITH CURB, 200 MM | 4488.00 |
| 441-6222 | 10000 | LM1 | 33.95 | CONC CURB & GUTTER, 200 MM X 750 MM, TP 2 | 339500.00 |
| 441-6740 | 12000 | LM1 | 30.75 | CONC CURB & GUTTER, 200 MM X 750 MM, TP 7 | 369000.00 |
| 444-1000 | 100 | LM1 | 10.87 | SAWED JOINTS IN EXIST PAVEMENTS - PCC | 1087.00 |
| 456-2012 | 7 | GLKM | 748.22 | INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE(CONTINUOUS) | 5237.54 |
| 500-3900 | 10 | M3 | 1366.99 | CLASS B CONCRETE, INCL REINF STEEL | 13669.90 |
| 500-9999 | 50 | M3 | 196.06 | CLASS B CONC, BASE OR PVMT WIDENING | 9803.00 |
| 620-0100 | 500 | LM1 | 157.00 | TEMPORARY BARRIER, METHOD NO. 1 | 78500.00 |
| 621-4020 | 101 | LM1 | 740.48 | CONCRETE SIDE BARRIER, TYPE 2 | 74788.48 |
| 621-4021 | 37 | LM1 | 803.40 | CONCRETE SIDE BARRIER, TYPE 2A | 29725.80 |
| 621-4022 | 30 | LM1 | 1090.85 | CONCRETE SIDE BARRIER, TYPE 2B | 32725.50 |
| 621-4023 | 34 | LM1 | 2203.48 | CONCRETE SIDE BARRIER, TYPE 2C | 74918.32 |
| 624-0201 | 6665 | M2 | 149.11 | SOUND BARRIER, TYPE B, 3 M - 6 M HT | 993818.15 |
| 632-0003 | 10 | EA | 15827.87 | CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3 | 158278.70 |
| 634-1200 | 145 | EA | 80.48 | RIGHT OF WAY MARKERS | 11669.60 |
| 641-1100 | 6 | LM1 | 126.55 | GUARDRAIL, TP T | 759.30 |
| 641-1200 | 2290 | LM1 | 38.96 | GUARDRAIL, TP W | 89218.40 |
| 641-5001 | 22 | EA | 430.47 | GUARDRAIL ANCHORAGE, TP 1 | 9470.34 |
| 641-5012 | 22 | EA | 1400.47 | GUARDRAIL ANCHORAGE, TP 12 | 30810.34 |
| | | | | **Section Sub Total:** | **$15,052,572.20** |

**Section Drainage**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 500-3800 | 11 | M3 | 778.27 | CLASS A CONCRETE, INCL REINF STEEL | 8560.97 |
| 500-3800 | 11 | M3 | 778.27 | CLASS A CONCRETE, INCL REINF STEEL | 8560.97 |
| 550-1180 | 4508 | LM1 | 94.52 | STORM DRAIN PIPE, 450 MM, H 0.3 - 3 M | 426096.16 |
| 550-1240 | 870 | LM1 | 125.67 | STORM DRAIN PIPE, 600 MM, H 0.3 - 3 M | 109332.90 |
| 550-1300 | 315 | LM1 | 153.22 | STORM DRAIN PIPE, 750 MM, H 0.3 - 3 M | 48264.30 |
| 550-1360 | 150 | LM1 | 193.00 | STORM DRAIN PIPE, 900 MM, H 0.3 - 3 M | 28950.00 |
| 550-1420 | 20 | LM1 | 222.13 | STORM DRAIN PIPE, 1050 MM, H 0.3 - 3 M | 4442.60 |
| 550-1480 | 93 | LM1 | 239.62 | STORM DRAIN PIPE, 1200 MM, H 0.3 - 3 M | 22284.66 |
| 550-2180 | 206 | LM1 | 77.03 | SIDE DRAIN PIPE, 450 MM, H 0.3 - 3 M | 15868.18 |
| 550-2240 | 114 | LM1 | 93.40 | SIDE DRAIN PIPE, 600 MM, H 0.3 - 3 M | 10647.60 |
| 550-2300 | 30 | LM1 | 114.22 | SIDE DRAIN PIPE, 750 MM, H 0.3 - 3 M | 3426.60 |

| | | | | | |
|---|---|---|---|---|---|
| 550-4118 | 10 | EA | 385.98 | FLARED END SECTION 450 MM, SIDE DRAIN | 3859.80 |
| 550-4124 | 6 | EA | 461.41 | FLARED END SECTION 600 MM, SIDE DRAIN | 2768.46 |
| 550-4130 | 2 | EA | 505.61 | FLARED END SECTION 750 MM, SIDE DRAIN | 1011.22 |
| 550-4218 | 4 | EA | 461.53 | FLARED END SECTION 450 MM, STORM DRAIN | 1846.12 |
| 550-4224 | 7 | EA | 619.91 | FLARED END SECTION 600 MM, STORM DRAIN | 4339.37 |
| 550-4230 | 5 | EA | 762.09 | FLARED END SECTION 750 MM, STORM DRAIN | 3810.45 |
| 550-4236 | 8 | EA | 865.18 | FLARED END SECTION 900 MM, STORM DRAIN | 6921.44 |
| 550-4242 | 2 | EA | 1045.02 | FLARED END SECTION 1050 MM, STORM DRAIN | 2090.04 |
| 668-1100 | 145 | EA | 1868.02 | CATCH BASIN, GP 1 | 270862.90 |
| 668-1110 | 68 | LM1 | 665.68 | CATCH BASIN, GP 1, ADDL DEPTH | 45266.24 |
| 668-1200 | 2 | EA | 2096.55 | CATCH BASIN, GP 2 | 4193.10 |
| 668-1210 | 9 | LM1 | 915.29 | CATCH BASIN, GP 2, ADDL DEPTH | 8237.61 |
| 668-2100 | 5 | EA | 1372.86 | DROP INLET, GP 1 | 6864.30 |
| 668-2110 | 4 | LM1 | 617.23 | DROP INLET, GP 1, ADDL DEPTH | 2468.92 |
| 668-4300 | 9 | EA | 1524.93 | STORM SEWER MANHOLE, TP 1 | 13724.37 |
| 668-4311 | 2 | LM1 | 537.05 | STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1 | 1074.10 |
| 668-4312 | 6 | LM1 | 806.11 | STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 2 | 4836.66 |
| 668-4400 | 1 | EA | 1908.47 | STORM SEWER MANHOLE, TP 2 | 1908.47 |
| 668-4411 | 4 | LM1 | 958.07 | STORM SEWER MANHOLE, TP 2, ADDL DEPTH, CL 1 | 3832.28 |
| | | | | **Section Sub Total:** | **$1,076,350.79** |

**Section Permanent Erosion Control**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 441-0204 | 300 | M2 | 31.49 | PLAIN CONC DITCH PAVING, 100 MM | 9447.00 |
| 603-2181 | 500 | M2 | 38.52 | STN DUMPED RIP RAP, TP 3, 450 MM | 19260.00 |
| 603-7000 | 500 | M2 | 4.00 | PLASTIC FILTER FABRIC | 2000.00 |
| 700-6910 | 31 | HA | 2074.83 | PERMANENT GRASSING | 64319.73 |
| 700-7000 | 205 | MG | 63.44 | AGRICULTURAL LIME | 13005.20 |
| 700-7010 | 725 | L | 4.34 | LIQUID LIME | 3146.50 |
| 700-8000 | 69 | MG | 207.15 | FERTILIZER MIXED GRADE | 14293.35 |
| 700-8100 | 1708 | KG | 3.13 | FERTILIZER NITROGEN CONTENT | 5346.04 |
| 715-2200 | 1000 | M2 | 2.44 | BITUMINOUS TREATED ROVING, WATERWAYS | 2440.00 |
| 716-2000 | 4000 | M2 | 1.18 | EROSION CONTROL MATS, SLOPES | 4720.00 |
| | | | | **Section Sub Total:** | **$137,977.82** |

**Section Temporary Erosion Control**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 163-0232 | 16 | HA | 1154.11 | TEMPORARY GRASSING | 18465.76 |
| 163-0240 | 1453 | MG | 208.56 | MULCH | 303037.68 |
| 163-0300 | 8 | EA | 1226.68 | CONSTRUCTION EXIT | 9813.44 |
| 163-0503 | 27 | EA | 428.35 | CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3 | 11565.45 |
| 163-0520 | 300 | LM1 | 34.67 | CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN | 10401.00 |
| 163-0521 | 20 | EA | 178.63 | CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS | 3572.60 |
| 163-0530 | 200 | LM1 | 6.21 | CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK | 1242.00 |
| 163-0550 | 160 | EA | 218.84 | CONSTRUCT AND REMOVE INLET SEDIMENT TRAP | 35014.40 |
| 165-0010 | 4000 | LM1 | 2.47 | MAINTENANCE OF TEMPORARY SILT FENCE, TP A | 9880.00 |
| 165-0030 | 2500 | LM1 | 3.58 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | 8950.00 |
| 165-0040 | 20 | EA | 101.76 | MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS | 2035.20 |
| 165-0070 | 100 | LM1 | 3.21 | MAINTENANCE OF BALED STRAW EROSION CHECK | 321.00 |
| 165-0087 | 27 | EA | 141.04 | MAINTENANCE OF SILT CONTROL GATE, TYPE 3 | 3808.08 |
| 165-0101 | 16 | EA | 465.05 | MAINTENANCE OF CONSTRUCTION EXIT | 7440.80 |
| 165-0105 | 160 | EA | 91.09 | MAINTENANCE OF INLET SEDIMENT TRAP | 14574.40 |
| 167-1000 | 2 | EA | 309.66 | WATER QUALITY MONITORING AND SAMPLING | 619.32 |

| | | | | | |
|---|---|---|---|---|---|
| 167-1500 | 36 | MO | 828.82 | WATER QUALITY INSPECTIONS | 29837.52 |
| 171-0010 | 8000 | LM1 | 6.79 | TEMPORARY SILT FENCE, TYPE A | 54320.00 |
| 171-0030 | 5000 | LM1 | 9.21 | TEMPORARY SILT FENCE, TYPE C | 46050.00 |
| | | | | **Section Sub Total:** | **$570,948.65** |

**Section Signing & Marking**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 636-1029 | 166 | M2 | 140.15 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3 | 23264.90 |
| 636-1039 | 27 | M2 | 174.08 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 6 | 4700.16 |
| 636-1040 | 140 | M2 | 249.94 | HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 6 | 34991.60 |
| 636-2070 | 1026 | LM1 | 24.11 | GALV STEEL POSTS, TP 7 | 24736.86 |
| 636-2080 | 426 | LM1 | 33.90 | GALV STEEL POSTS, TP 8 | 14441.40 |
| 636-2090 | 7 | LM1 | 23.96 | GALV STEEL POSTS, TP 9 | 167.72 |
| 636-3010 | 76 | EA | 353.17 | GROUND-MOUNTED BREAKAWAY SIGN SUPPORT | 26840.92 |
| 653-0120 | 215 | EA | 58.21 | THERMOPLASTIC PVMT MARKING, ARROW, TP 2 | 12515.15 |
| 653-0130 | 6 | EA | 82.75 | THERMOPLASTIC PVMT MARKING, ARROW, TP 3 | 496.50 |
| 653-0160 | 4 | EA | 87.15 | THERMOPLASTIC PVMT MARKING, ARROW, TP 6 | 348.60 |
| 653-0170 | 29 | EA | 79.58 | THERMOPLASTIC PVMT MARKING, ARROW, TP 7 | 2307.82 |
| 653-0210 | 20 | EA | 88.50 | THERMOPLASTIC PVMT MARKING, WORD, TP 1 | 1770.00 |
| 653-1501 | 25930 | LM1 | 0.67 | THERMOPLASTIC SOLID TRAFFIC STRIPE, 125 MM, WHITE | 17373.10 |
| 653-1502 | 19600 | LM1 | 0.67 | THERMOPLASTIC SOLID TRAFFIC STRIPE, 125 MM, YELLOW | 13132.00 |
| 653-1604 | 500 | LM1 | 7.00 | THERMOPLASTIC SOLID TRAFFIC STRIPE, 450 MM, WHITE | 3500.00 |
| 653-1804 | 4500 | LM1 | 5.20 | THERMOPLASTIC SOLID TRAFFIC STRIPE, 200 MM, WHITE | 23400.00 |
| 653-3501 | 24060 | GLM1 | 0.46 | THERMOPLASTIC SKIP TRAFFIC STRIPE, 125 MM, WHITE | 11067.60 |
| 653-3503 | 3500 | GLM1 | 0.59 | THERMOPLASTIC SKIP TRAFFIC STRIPE, 150 MM, WHITE | 2065.00 |
| 653-6004 | 4710 | M2 | 2.81 | THERMOPLASTIC TRAF STRIPING, WHITE | 13235.10 |
| 653-6006 | 120 | M2 | 3.16 | THERMOPLASTIC TRAF STRIPING, YELLOW | 379.20 |
| 654-1001 | 180 | EA | 3.44 | RAISED PVMT MARKERS TP 1 | 619.20 |
| 654-1002 | 1000 | EA | 1.16 | RAISED PVMT MARKERS TP 2 | 1160.00 |
| 654-1003 | 1000 | EA | 3.44 | RAISED PVMT MARKERS TP 3 | 3440.00 |
| 654-1010 | 35 | EA | 24.67 | RAISED PVMT MARKERS TP 10 | 863.45 |
| | | | | **Section Sub Total:** | **$236,816.28** |

**Section Signal Installation**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 639-2002 | 400 | LM1 | 8.62 | STEEL WIRE STRAND CABLE, 9.53 MM | 3448.00 |
| 639-3003 | 8 | EA | 5600.00 | STEEL STRAIN POLE, TP III | 44800.00 |
| 639-3004 | 1 | EA | 15991.72 | STEEL STRAIN POLE, TP IV W/ONE 19.8 M & ONE 18.8 M MASTARM | 15991.72 |
| 639-3004 | 2 | EA | 13491.72 | STEEL STRAIN POLE, TP IV W/19.8 M MASTARM | 26983.44 |
| 639-3004 | 7 | EA | 11991.72 | STEEL STRAIN POLE, TP IV W/16.3 M MASTARM | 83942.04 |
| 639-3004 | 4 | EA | 8491.72 | STEEL STRAIN POLE, TP IV | 33966.88 |
| 639-3004 | 1 | EA | 12991.72 | STEEL STRAIN POLE, TP IV W/19.0 M MASTARM | 12991.72 |
| 639-3004 | 2 | EA | 11991.72 | STEEL STRAIN POLE, TP IV W/17.8 M MASTARM | 23983.44 |
| 639-3004 | 1 | EA | 16491.72 | STEEL STRAIN POLE, TP IV W/TWO 19.4 M MASTARMS | 16491.72 |
| 639-3004 | 2 | EA | 16491.72 | STEEL STRAIN POLE, TP IV W/TWO 19.8 M MASTARMS | 32983.44 |
| 647-1000 | 1 | LS | 57420.00 | TRAFFIC SIGNAL INSTALLATION NO - 1 | 57420.00 |

| | | | | | |
|---|---|---|---|---|---|
| 647-1000 | 1 | LS | 56495.00 | TRAFFIC SIGNAL INSTALLATION NO - 2 | 56495.00 |
| 647-1000 | 1 | LS | 58995.00 | TRAFFIC SIGNAL INSTALLATION NO - 3 | 58995.00 |
| 647-1000 | 1 | LS | 59246.00 | TRAFFIC SIGNAL INSTALLATION NO - 4 | 59246.00 |
| 647-1000 | 1 | LS | 63417.00 | TRAFFIC SIGNAL INSTALLATION NO - 5 | 63417.00 |
| 647-1000 | 1 | LS | 49587.00 | TRAFFIC SIGNAL INSTALLATION NO - 6 | 49587.00 |
| 938-1100 | 4 | EA | 6330.64 | INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A | 25322.56 |
| 938-1200 | 4 | EA | 304.73 | PROGRAMMING MONITOR, TYPE A | 1218.92 |
| 938-1210 | 4 | EA | 298.03 | OUTPUT EXPANSION MODULE, TYPE A | 1192.12 |
| 938-8000 | 1 | LS | 2855.25 | TESTING | 2855.25 |
| | | | | **Section Sub Total:** | **$671,331.25** |

**Section Cart Path Tunnels**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---|---|---|---|---|---|
| 207-0203 | 180 | M3 | 47.17 | FOUND BKFILL MATL, TP II | 8490.60 |
| 500-3101 | 585 | M3 | 515.84 | CLASS A CONCRETE | 301766.40 |
| 511-1000 | 28500 | KG | 1.41 | BAR REINF STEEL | 40185.00 |
| 550-1242 | 92 | LM1 | 106.46 | STORM DRAIN PIPE, 600 MM, H 4.5 - 6 M | 9794.32 |
| 668-7000 | 1 | EA | 17100.00 | DRIVEWAY GRATE INLET, SPECIAL DESIGN, PIPE SIZE - | 17100.00 |
| 682-9030 | 1 | LS | 2500.00 | LIGHTING SYSTEM | 2500.00 |
| | | | | **Section Sub Total:** | **$379,836.32** |

**Total Estimated Cost: $18,125,833.31**

| | |
|---|---|
| **Subtotal Construction Cost** | **$18,125,833.31** |
| E&C Rate 10 % | $1,812,583.33 |
| Inflation Rate 0.0 % @ 0.0 Years | $0.00 |
| **Total Construction Cost** | **$19,938,416.64** |
| Right Of Way | $0.00 |
| ReImb. Utilities | $0.00 |
| **Grand Total Project Cost** | **$19,938,416.64** |