

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 231350-, Columbia County **OFFICE** Preconstruction
STP-076-1(28)
SR 47 Passing Lane MP 2.45 to MP 3.88 **DATE** March 20, 2006

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

TO *MBP* 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
Mike Thomas
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

DATE March 10, 2006

FROM ^{DAS} Alan Smith, District Design Engineer
TO Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

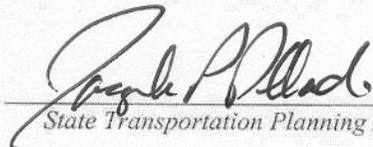
SUBJECT STP-076-1 (28) Columbia County, P.I. # 231350
Passing lane construction on SR 47 from MP 2.45 to MP 3.88
Revised Project Concept Report

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

The above mentioned project consists of the construction of a southbound passing lane on SR 47 from MP 2.45 to MP 3.88. The proposed roadway will consist of 3 12-ft. travel lanes with 10-ft. grassed shoulders (4-ft. each side to be paved). Safety slopes will be constructed. The vertical alignment will be corrected to meet current AASHTO Green Book criteria.

The 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).

DATE 3/13/06


State Transportation Planning Administrator

Distribution:

Brian Summers
Harvey Keepler
Keith Golden
Joe Palladi
Jamie Simpson

2. Right of Way Cost: \$117,000.00
3. Utility Costs: \$14,000.00

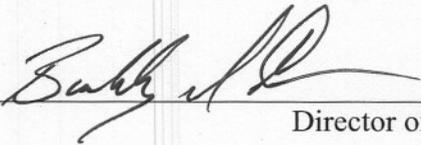
Is the project in a Non-Attainment area? Yes No

Recommendation:

This office recommends that this concept revision be approved as written.

Attachments:

*Location Sketch
Cost Estimate*

Concur:  _____
Director of Preconstruction

Approved:  _____
Chief Engineer

Estimate Report for file "231350PFPR"

| Section ROADWAY | | | | | |
|---------------------------|----------|-------|------------|--|-----------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 150-1000 | 1 | LS | 75000.00 | TRAFFIC CONTROL - STP-076-1 (28) | 75000.00 |
| 201-1500 | 1 | LS | 50000.00 | CLEARING & GRUBBING - STP-076-1 (28) | 50000.00 |
| 205-0001 | 188816 | CY | 3.52 | UNCLASS EXCAV | 664632.32 |
| 207-0203 | 117 | CY | 37.32 | FOUND BKFILL MATL, TP II | 4366.44 |
| 310-1101 | 11853 | TN | 15.45 | GR AGGR BASE CRS, INCL MATL | 183128.85 |
| 318-3000 | 1300 | TN | 16.75 | AGGR SURF CRS | 21775.00 |
| 402-1812 | 898 | TN | 42.98 | RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME | 38596.04 |
| 402-3112 | 3739 | TN | 55.14 | RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 206168.46 |
| 402-3121 | 5118 | TN | 42.71 | RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 218589.78 |
| 402-3131 | 3111 | TN | 41.24 | RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME | 128297.64 |
| 413-1000 | 2368 | GL | 1.07 | BITUM TACK COAT | 2533.76 |
| 441-0016 | 139 | SY | 30.19 | DRIVEWAY CONCRETE, 6 IN TK | 4196.41 |
| 441-0303 | 4 | EA | 1678.86 | CONC SPILLWAY, TP 3 | 6715.44 |
| 441-3999 | 785 | LF | 16.74 | CONCRETE V GUTTER | 13140.90 |
| 444-1000 | 24 | LF | 2.26 | SAWED JOINTS IN EXIST PAVEMENTS - PCC | 54.24 |
| 446-1100 | 4500 | LF | 4.93 | PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH | 22185.00 |
| 456-2015 | 3 | GLM | 804.08 | INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP) | 2412.24 |
| 500-3101 | 382 | CY | 467.31 | CLASS A CONCRETE | 178512.42 |
| 500-3800 | 10 | CY | 664.92 | CLASS A CONCRETE, INCL REINF STEEL | 6649.20 |
| 511-1000 | 25742 | LB | 0.74 | BAR REINF STEEL | 19049.08 |
| 550-1180 | 248 | LF | 32.90 | STORM DRAIN PIPE, 18 IN, H 1-10 | 8159.20 |
| 550-1240 | 260 | LF | 39.82 | STORM DRAIN PIPE, 24 IN, H 1-10 | 10353.20 |
| 550-1300 | 380 | LF | 49.83 | STORM DRAIN PIPE, 30 IN, H 1-10 | 18935.40 |
| 550-1480 | 140 | LF | 99.01 | STORM DRAIN PIPE, 48 IN, H 1-10 | 13861.40 |
| 550-2180 | 952 | LF | 24.68 | SIDE DRAIN PIPE, 18 IN, H 1-10 | 23495.36 |
| 550-3524 | 2 | EA | 980.28 | SAFETY END SECTION 24 IN, STORM DRAIN, 6:1 SLOPE | 1960.56 |
| 550-3618 | 46 | EA | 539.55 | SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE | 24819.30 |
| 550-4218 | 6 | EA | 492.70 | FLARED END SECTION 18 IN, STORM DRAIN | 2956.20 |
| 550-4224 | 6 | EA | 546.05 | FLARED END SECTION 24 IN, STORM DRAIN | 3276.30 |
| 550-4230 | 6 | EA | 685.38 | FLARED END SECTION 30 IN, STORM DRAIN | 4112.28 |
| 573-2006 | 1600 | LF | 13.38 | UNDDR PIPE INCL DRAINAGE AGGR, 6 IN | 21408.00 |
| 610-0306 | 1 | EA | 155.00 | REM METAL GATE - 55+57 LEFT, 12 FT. GATE | 155.00 |
| 610-0306 | 1 | EA | 155.00 | REM METAL GATE - 73+46 RIGHT, 15 FT GATE | 155.00 |
| 610-0306 | 1 | EA | 155.00 | REM METAL GATE - 82+34 LEFT, 15 FT. GATE | 155.00 |
| 610-0306 | 1 | EA | 155.00 | REM METAL GATE - 87+94 LEFT, 15 FT. GATE | 155.00 |
| 610-9099 | 1 | LS | 2721.64 | REM WINGWALLS & PARAPETS, STA - 89+96 | 2721.64 |
| 611-4997 | 1 | EA | 191.67 | RESET METAL GATE - 55+57 LEFT, 12 FT. GATE | 191.67 |
| 611-4997 | 1 | EA | 191.67 | RESET METAL GATE - 73+46 RIGHT, 15 FT. GATE | 191.67 |
| 611-4997 | 1 | EA | 191.67 | RESET METAL GATE - 82+34 LEFT, 15 FT. GATE | 191.67 |
| 611-4997 | 1 | EA | 191.67 | RESET METAL GATE - 87+94 LEFT, 15 FT. GATE | 191.67 |
| 634-1200 | 95 | EA | 90.37 | RIGHT OF WAY MARKERS | 8585.15 |
| 636-5010 | 20 | EA | 37.98 | DELINEATOR, TP 1 | 759.60 |
| 641-1200 | 872 | LF | 14.12 | GUARDRAIL, TP W | 12312.64 |
| 641-5001 | 3 | EA | 491.84 | GUARDRAIL ANCHORAGE, TP 1 | 1475.52 |
| 641-5012 | 3 | EA | 1581.55 | GUARDRAIL ANCHORAGE, TP 12 | 4744.65 |
| 643-0010 | 1434 | LF | 4.93 | FIELD FENCE WOVEN WIRE | 7069.62 |
| 643-0105 | 1377 | LF | 4.51 | FIELD FENCE BARBED WIRE, 5 STRANDS | 6210.27 |
| 643-1132 | 96 | LF | 6.01 | CH LK FENCE, ZC COAT, 4 FT, 9 GA | 576.96 |
| 668-8014 | 144 | SF | 55.04 | SAFETY GRATE, TP 4 | 7925.76 |
| Section Sub Total: | | | | | \$2,033,108.91 |

Section EROSION CONTROL

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---------------------------|----------|-------|------------|---------------------------------|--------------------|
| 603-2181 | 230 | SY | 37.87 | STN DUMPED RIP RAP, TP 3, 18 IN | 8710.10 |
| 603-7000 | 230 | SY | 4.03 | PLASTIC FILTER FABRIC | 926.90 |
| 700-6910 | 14 | AC | 806.16 | PERMANENT GRASSING | 11286.24 |
| 700-7000 | 21 | TN | 58.72 | AGRICULTURAL LIME | 1233.12 |
| 700-7010 | 53 | GL | 18.97 | LIQUID LIME | 1005.41 |
| 700-8000 | 16 | TN | 268.54 | FERTILIZER MIXED GRADE | 4296.64 |
| 700-8100 | 1041 | LB | 1.57 | FERTILIZER NITROGEN CONTENT | 1634.37 |
| 710-9000 | 350 | SY | 4.41 | PERMANENT SOIL REINFORCING MAT | 1543.50 |
| Section Sub Total: | | | | | \$30,636.28 |

| Section TEMPORARY EROSION CONTROL | | | | | |
|--|----------|-------|------------|---|---------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 163-0232 | 7 | AC | 481.40 | TEMPORARY GRASSING | 3369.80 |
| 163-0240 | 210 | TN | 196.00 | MULCH | 41160.00 |
| 163-0300 | 4 | EA | 1259.14 | CONSTRUCTION EXIT | 5036.56 |
| 163-0520 | 1500 | LF | 12.67 | CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN | 19005.00 |
| 165-0010 | 3900 | LF | 1.06 | MAINTENANCE OF TEMPORARY SILT FENCE, TP A | 4134.00 |
| 165-0030 | 4700 | LF | 1.18 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | 5546.00 |
| 165-0101 | 4 | EA | 422.50 | MAINTENANCE OF CONSTRUCTION EXIT | 1690.00 |
| 167-1000 | 2 | EA | 1734.57 | WATER QUALITY MONITORING AND SAMPLING | 3469.14 |
| 167-1500 | 18 | MO | 853.64 | WATER QUALITY INSPECTIONS | 15365.52 |
| 171-0010 | 7800 | LF | 1.87 | TEMPORARY SILT FENCE, TYPE A | 14586.00 |
| 171-0030 | 9400 | LF | 3.22 | TEMPORARY SILT FENCE, TYPE C | 30268.00 |
| 716-2000 | 18100 | SY | 1.07 | EROSION CONTROL MATS, SLOPES | 19367.00 |
| Section Sub Total: | | | | | \$162,997.02 |

| Section TRAFFIC CONTROL | | | | | |
|--------------------------------|----------|-------|------------|---|-------------------|
| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
| 636-1020 | 5 | SF | 13.82 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3 | 69.10 |
| 636-1031 | 54 | SF | 16.95 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6 | 915.30 |
| 636-2070 | 91 | LF | 7.04 | GALV STEEL POSTS, TP 7 | 640.64 |
| 652-0120 | 7 | EA | 47.19 | PAVEMENT MARKING, ARROW, TP 2 | 330.33 |
| 652-5451 | 21720 | LF | 0.14 | SOLID TRAFFIC STRIPE, 5 IN, WHITE | 3040.80 |
| 652-5452 | 16440 | LF | 0.14 | SOLID TRAFFIC STRIPE, 5 IN, YELLOW | 2301.60 |
| 652-5701 | 85 | LF | 2.52 | SOLID TRAF STRIPE, 24 IN, WHITE | 214.20 |
| 652-6501 | 6130 | GLF | 0.13 | SKIP TRAFFIC STRIPE, 5 IN, WHITE | 796.90 |
| 652-6502 | 2540 | GLF | 0.10 | SKIP TRAFFIC STRIPE, 5 IN, YELLOW | 254.00 |
| 652-9001 | 43 | SY | 1.64 | TRAFFIC STRIPE, WHITE | 70.52 |
| 652-9002 | 173 | SY | 1.48 | TRAFFIC STRIPE, YELLOW | 256.04 |
| 654-1001 | 71 | EA | 3.53 | RAISED PVMT MARKERS TP 1 | 250.63 |
| 654-1002 | 169 | EA | 3.02 | RAISED PVMT MARKERS TP 2 | 510.38 |
| 654-1003 | 76 | EA | 3.77 | RAISED PVMT MARKERS TP 3 | 286.52 |
| Section Sub Total: | | | | | \$9,936.96 |

Total Estimated Cost: \$2,236,679.17

| | |
|-----------------------------------|-----------------------|
| Subtotal Construction Cost | \$2,236,679.17 |
| E&C Rate 10 % | \$223,667.92 |
| Inflation Rate 5 % @ 1 Years | \$123,017.35 |
| <hr/> | |
| Total Construction Cost | \$2,583,364.44 |
| Right Of Way | \$117,000.00 |

ReImb. Utilities \$14,000.00

Grand Total Project Cost \$2,714,364.44