

D.O.T. 66

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

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INTERDEPARTMENT CORRESPONDENCE

**FILE** P. I. No. 122260-. Stephens County **OFFICE** Preconstruction  
EDS-545(37)  
SR 17 from Scott Road to Brookhaven Circle **DATE** March 14, 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.

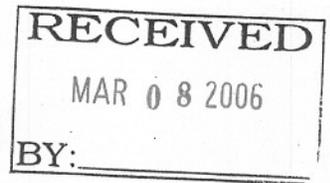
MBP/cj

Attachment

DISTRIBUTION:

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Harvey Keepler  
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BOARD MEMBER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE EDS-545(37) Stephens County OFFICE Atlanta, Georgia  
State Route 17 from  
NW of CR 24/Scott Road to CR 538/Brookhaven Circle  
P.I. No. 122260 DATE January 6, 2006

FROM *M. B. Abubakari* (MBA) Mohammed (Babs) Abubakari, P. E., State Consultant Design Engineer

TO Meg Pirkle, P. E., Assistant Director of Preconstruction

SUBJECT **Revised Project Concept Report**

Attached is the original copy of the revised Concept Report for your further handling and approval in accordance with the Plan Development Process

The concept is being revised to change the project termini. The ending point is being moved back from the intersection of SR 17 with Brookhaven Circle to the intersection with Memorial Drive. This change will cause a decrease in the project length of 0.90 miles. The revised project length will be 3.04 miles.

The improvements to SR 17 between Memorial Drive and Brookhaven Circle will be made under project STP-050-2(25) Stephens County, PI 132730.

If you have any questions, please contact Joe Wheeler at (404)657-9759.

*JDW*  
MBA:JDW  
Attachment

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).

DATE: 3/7/06

*Reginald P. McLeod*  
\_\_\_\_\_  
State Transportation Planning Administrator

cc: Brian Summers  
Harvey Keepler  
Keith Golden  
Joe Palladi  
Jamie Simpson  
Russell McMurry  
Paul Liles

# REVISED PROJECT CONCEPT REPORT

EDS-545 (37), Stephens County

P. I. No.122260

## **Need and Purpose:**

This project is identified as a part of the Governor's Road Improvement Program (GRIP). As part of this program, the existing two-lane SR 17 will be improved to multilane from Scott Road to Brookhaven Circle. GRIP was initiated in the 1980's to address the importance of stimulating growth via an improved transportation network. The GRIP has identified a system of economic development highways that consist of approximately 2,627 miles of existing primary routes, and an additional 113 miles of truck connector routes. The system would place 98% of the State's population within 20 miles of a multilane highway. It would provide access for oversized trucks to cities having populations of 5,000 or more, and to most cities having populations between 2,000 and 5,000.

Among the many benefits of such a system is that areas lagging in growth would be enhanced. In addition, tourism industries would benefit as would accessibility to recreation and historic sites. Georgia is to remain a growth state in the near future. The demands created by population and economic growth will spill over onto the non-Interstate systems that form a critical link for both large and small communities in the state. This essentially makes highway access a prime requisite for community growth in the future.

Currently limitations on trucks prevent access for many Georgia communities and affect economic potential. The Governor's Road Improvement Program would provide access to communities denied service by larger trucks. This is beneficial, because based on the experiences of the Georgia Department of Industry and Trade, if two cities are competing for an industry, the city closest to a four-lane roadway will usually attract the industry.

The proposed multilane of SR 17 will serve as a catalyst for the development of the region, connecting the Atlanta area with the more sparsely developed areas along the corridor. Traffic carrying capacity will be increased and safety and operational characteristics along these segments will be improved.

## **Project location:**

Project EDS-545(37) is the widening and reconstruction of SR 17 from CR 24/Scott Road to CR 538/Brookhaven Circle in Stephens County. As part of the project, the existing two- and three-lane roadway will be widened to a four-lane roadway with a 44-foot depressed median and will be transitioned to a four-lane roadway with a 20-foot raised median as the project approaches Toccoa.

## **Description of the approved concept:**

The revised concept for project EDS-545(37), approved April 19, 2005, begins on new location at CR 24/Scott Road at which point it converges with the existing SR 17. At this location, the roadway will be widened on the east side, holding the existing right-of-way on the west side, to create a four-lane divided roadway with a 44-foot depressed median. The road widening to the east will continue until just north of CR 195/Eastanollee Bypass. The alignment will then shift to the west side of SR 17 to avoid impacting two historical properties and continue to just south of CR 192/Meadowbrook Drive.

This alignment will flatten the curve at CR 194/Moore Circle. The alignment will then transition to a rural-divided four-lane roadway with a 20-foot raised median, widening symmetrically about existing SR 17. The typical section then will change to an urban-divided four-lane (20-foot raised median) roadway 1,000 feet south of CR 191/Fieldcrest Road to avoid impacting a historical property on the east side and a church property on the west side. This alignment will flatten the curve at CR 191/Fieldcrest Road and continue to CR 538/Brookhaven Circle.

**PDP Classification:** Major/Existing  
Full Oversight ( ), Exempt (X), SF ( ), Other ( )

**Functional Classification:** Rural Arterial

**U. S. Route Number:**N/A **State Route Number:** 17

**Traffic (AADT) as shown in the approved concept:**  
Current Year: 1997 12,850 vpd Design Year: 2017 21,150 vpd

**Proposed features to be revised:**

**Project termini-** The approved concept for this project is being revised to change the “end” limits for this project.

- The ending point is being shortened by 0.90 miles from the intersection of SR 17 with CR 538/Brookhaven Circle to the intersection with CR 190/Memorial Drive. The revised concept of April 19, 2005 extended the project limits from CR 190/Memorial Drive to CR 538/Brookhaven Circle because the present and future traffic volumes require a “retrofit” urban-divided four-lane roadway with a 14-foot flush median and 3 ft outside paved shoulders. It was subsequently discovered that project STP-050-2(25) Stephens County, PI 132730, had been programmed to provide the improvements between CR 190/Memorial Drive and CR 538/Brookhaven Circle.

**Describe the revised feature to be approved:**

Approval is requested for a change in project termini on the western end of the project. The reasons to revise the project limits are as stated above.

The present approved project concept length is 3.94 miles. These changes in project termini will change the project length to 3.04 miles.

**Updated traffic data (AADT):** Current Year: 2007 23,500 vpd Design Year: 2027 38,500 vpd

**Programmed/Schedule:**

P.E: 1994/2002 R/W: 2006 Construction: 2010

**Revised cost estimates:**

1. Construction cost (including inflation and E&C): \$18,826,275
2. Right-of-way: \$13,164,000
3. Utilities (reimbursable): \$60,000

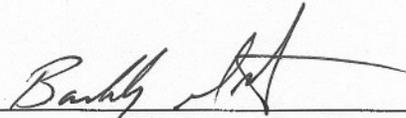
Is the project located in a Non-attainment area?        Yes   X   No

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

Attachments:

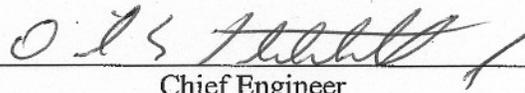
1. Sketch Map
2. Cost Estimate

Concur: \_\_\_\_\_



Director of Preconstruction

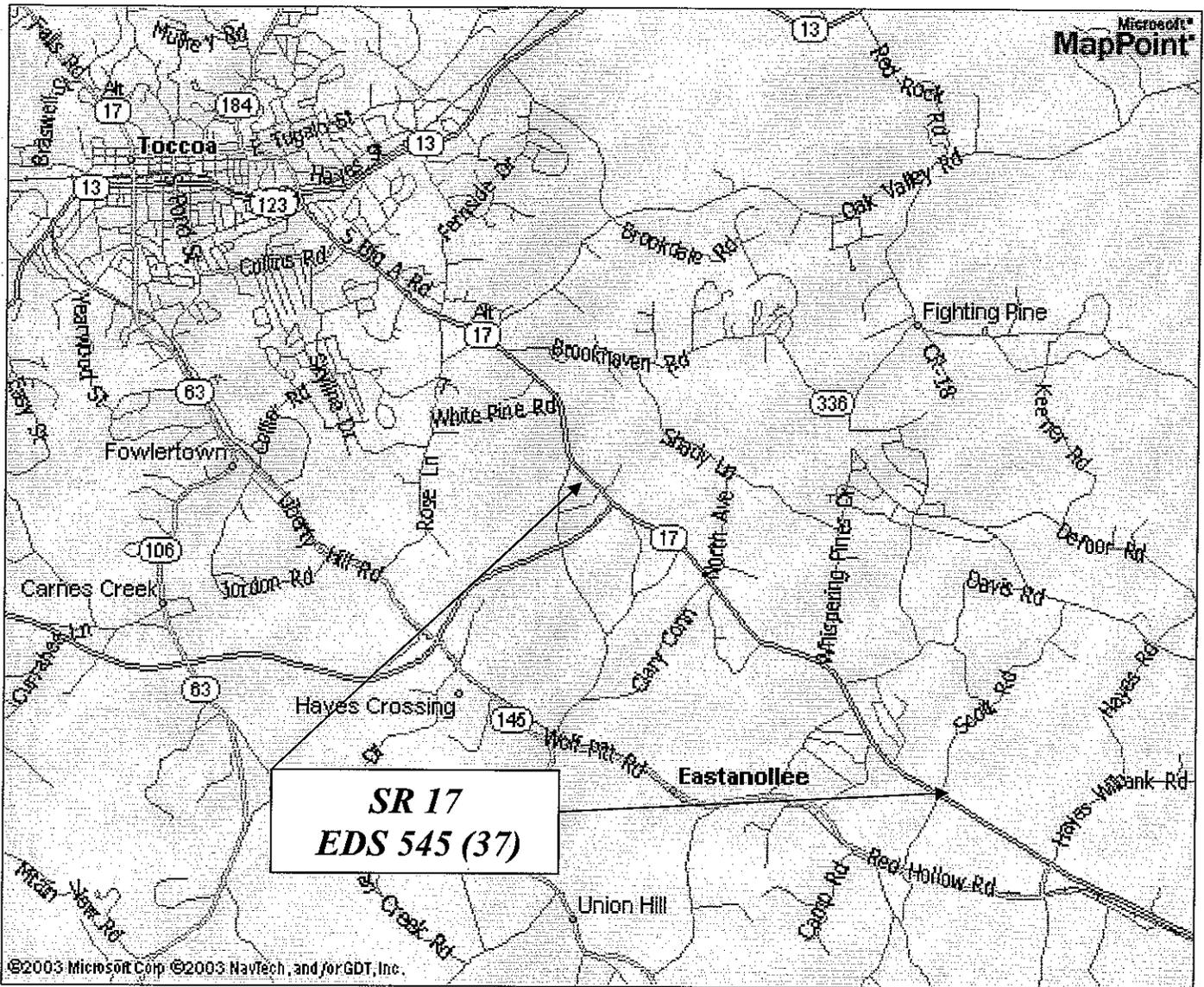
Approve: \_\_\_\_\_



Chief Engineer

**SR 17 - EDS 545 (37)**  
**Stephens County, P.I.No. 122260**

(Project Location Map)



# CONSTRUCTION COST ESTIMATE

Project: SR 17 ROADWAY IMPROVEMENTS  
 Project No.: EDS-545(37)  
 County: STEPHENS

Prepared by:   
 Last Modified:

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	COST
1	RIGHT OF WAY:	LS	LUMP	\$ 555,000.00	\$12,609,000.00
2	DISPLACEMENTS:	LS	LUMP	\$ 12,609,000.00	\$555,000.00
<b>TOTAL RIGHT OF WAY COST</b>					<b>\$13,164,000.00</b>
<b>REIMBURSABLE UTILITIES:</b>		LS	LUMP	\$ 60,000.00	\$60,000.00
<b>CONSTRUCTION COSTS</b>					
<b>ROADWAY ITEMS</b>					
150-1000	TRAFFIC CONTROL (PROJECT NO. EDS 545(37))	LS	LUMP	\$150,000.00	\$150,000.00
201-1500	CLEARING & GRUBBING	LS	LUMP	\$570,000.00	\$570,000.00
205-0001	UNCLASSIFIED EXCAVATION	CY	383906	\$3.00	\$1,151,718.00
207-0203	FOUND BK FILL MATL, TP II	CY	100	\$45.00	\$4,500.00
310-1101	GR AGGR BASE NCL MATL	TN	146200	\$18.00	\$2,485,400.00
318-3000	AGGR SURFACE CRS	TN	1000	\$19.00	\$18,000.00
402-1812	REC ASPH CONC LEVELING, INCLUDE BIT MATL & H LIME	TN	300	\$70.00	\$21,000.00
402-3110	REC ASPH CONC 9.5mm SUPERPAVE, GP 1 OR 2, INCLUDE BIT MATL & H LIME	TN	3600	\$55.00	\$198,000.00
402-3113	REC ASPH CONC 12.5mm SUPERPAVE, GP 1 & GP2, INCL BIT MATL & H LIME	TN	2000	\$55.00	\$110,000.00
402-3121	REC ASPH CONC 25mm SUPERPAVE, GP 1 OR 2, INCLUDE BIT MATL & H LIME	TN	47200	\$55.00	\$2,596,000.00
402-3190	REC ASPH CONC 19mm SUPERPAVE, GP 1 OR 2, INCLUDE BIT MATL & H LIME	TN	26700	\$55.00	\$1,468,500.00
402-4510	REC ASPH CONC 12.5mm SUPERPAVE, GP2 ONLY, INCL POLYMER-MODIFIED BIT MATL	TN	12600	\$65.00	\$819,000.00
413-1000	BITUM TACK COAT	GL	29400	\$2.00	\$58,800.00
433-1000	REINF CONC APPROACH SLAB	SY	930	\$140.00	\$130,200.00
441-0014	DRIVEWAY CONCRETE, 4 IN TK	SY	100	\$30.00	\$3,000.00
441-0050	CONC SLOPE DRAIN	SY		\$25.00	
441-0104	CONC SIDEWALK, 4 IN	SY	4800	\$28.00	\$134,400.00
441-0303	CONC SPILLWAY, TP 3	SY	1	\$1,630.00	\$1,630.00
441-0740	CONCRETE MEDIAN, 4 IN	SY	2000	\$35.00	\$70,000.00
441-4030	CONC VALLEY GUTTER, 8 IN	SY	1100	\$40.00	\$44,000.00
441-6222	CONC CURB & GUTTER, 8" X 30", TYPE 2	LF	9600	\$18.00	\$172,800.00
441-6740	CONC CURB & GUTTER, 8" X 30", TYPE 7	LF	9500	\$15.00	\$142,500.00
446-1002	PVMT REINF FABRIC STRIPS, TP 2, INCL BITUM BINDER	LF	500	\$4.00	\$2,000.00
449000	BRIDGE OVER EASTANOLLEE CREEK	SF	18260	\$68.00	\$1,241,680.00
500-3120	CLASS A CONCRETE, TYPE P3, RETAINING WALL	LF	201	\$625.00	\$125,625.00
500-3101	CLASS A CONCRETE	CY	425	\$520.00	\$221,069.16
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	35	\$700.00	\$24,500.00
511-1000	BAR REINF STEEL	LB	40603	\$1.00	\$40,602.50
641-1100	GUARDRAIL, TP T	LF	153	\$35.00	\$5,355.00
641-1200	GUARDRAIL, TP W	LF	5861	\$20.00	\$117,229.80
641-2100	DBL FACED GUARDRAIL, TP W	LF	494	\$40.00	\$12,350.00
641-6001	GUARDRAIL ANCHORAGE, TP 1	EA	21	\$550.00	\$11,550.00
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	10	\$1,760.00	\$17,600.00
641-6000	GUARDRAIL ANCHORAGE TP 10D, SPCL DES	EA	2	\$3,250.00	\$6,500.00
643-4000	WOVEN WIRE FENCE	LF	1250	\$580.00	\$725,000.00
643-8040	GATE, WOVEN WIRE	EA	2	\$400.00	\$800.00
643-8200	BARRIER FENCE (ORANGE) 4 FT	LF	1000	\$1.50	\$1,500.00
<b>DRAINAGE ITEMS</b>					
550-1180	STORM DRAIN PIPE, 18 IN., H 1-10	LF	11900	\$30.00	\$357,000.00
550-1240	STORM DRAIN PIPE, 24 IN., H 1-10	LF	2500	\$35.00	\$87,500.00
550-1300	STORM DRAIN PIPE, 30 IN., H 1-10	LF	1400	\$46.00	\$64,400.00
550-1360	STORM DRAIN PIPE, 36 IN., H 1-10	LF	290	\$50.00	\$14,500.00
550-1420	STORM DRAIN PIPE, 42 IN., H 1-10	LF	450	\$81.00	\$36,450.00
550-1480	STORM DRAIN PIPE, 48 IN., H 1-10	LF	51	\$82.00	\$4,182.00
550-1540	STORM DRAIN PIPE, 54 IN., H 1-10	LF	110	\$83.00	\$9,130.00
550-3418	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	EA	9	\$550.00	\$4,950.00
550-3424	SAFETY END SECTION 24 IN, SIDE DRAIN, 4:1 SLOPE	EA	10	\$790.00	\$7,900.00
550-3430	SAFETY END SECTION 30 IN, SIDE DRAIN, 4:1 SLOPE	EA	12	\$1,700.00	\$20,400.00
550-3436	SAFETY END SECTION 36 IN, SIDE DRAIN, 4:1 SLOPE	EA	2	\$2,060.00	\$4,120.00

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	COST
550-3442	SAFETY END SECTION 42 IN, SIDE DRAIN, 4:1 SLOPE	EA	3	\$2,800.00	\$8,400.00
550-3518	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	EA	9	\$630.00	\$5,670.00
550-3524	SAFETY END SECTION 24 IN, SIDE DRAIN, 6:1 SLOPE	EA	10	\$950.00	\$9,500.00
550-3530	SAFETY END SECTION 30 IN, SIDE DRAIN, 6:1 SLOPE	EA	12	\$2,000.00	\$24,000.00
550-3536	SAFETY END SECTION 36 IN, SIDE DRAIN, 6:1 SLOPE	EA	2	\$1,940.00	\$3,880.00
550-3542	SAFETY END SECTION 42 IN, SIDE DRAIN, 6:1 SLOPE	EA	3	\$2,880.00	\$8,640.00
550-4218	FLARED END SECTION 18 IN, STORM DRAIN	EA	9	\$450.00	\$4,050.00
550-4224	FLARED END SECTION 24 IN, STORM DRAIN	EA	8	\$550.00	\$4,400.00
550-4230	FLARED END SECTION 30 IN, STORM DRAIN	EA	6	\$520.00	\$3,276.00
550-4236	FLARED END SECTION 36 IN, STORM DRAIN	EA	3	\$960.00	\$2,850.00
573-2006	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	LF	650	\$15.00	\$9,750.00
603-2180	STN DUMPED RIP RAP, TP3, 12 IN	SY	200	\$35.00	\$7,000.00
603-2181	STN DUMPED RIP RAP, TP3, 18 IN	SY	120	\$40.00	\$4,800.00
603-2182	STN DUMPED RIP RAP, TP3, 24 IN	SY	83	\$45.00	\$3,735.00
603-2184	STN DUMPED RIP RAP, TP3, 30 IN	SY	200	\$50.00	\$10,000.00
603-2186	STN DUMPED RIP RAP, TP3, 36 IN	SY	210	\$53.00	\$11,130.00
603-7000	PLASTIC FILTER FABRIC	SY	1427	\$5.00	\$7,133.33
622-1033	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	LF	6250	\$40.00	\$250,000.00
634-1200	RIGHT OF WAY MARKER	EA	300	\$105.00	\$31,500.00
668-1100	CATCH BASIN, GP 1	EA	40	\$1,700.00	\$68,000.00
668-1110	CATCH BASIN, GP 1, ADDL DEPTH	LF	36	\$190.00	\$6,840.00
668-2100	DROP INLET, GP 1	EA	31	\$2,300.00	\$71,300.00
668-2110	DROP INLET, GP 1, ADDL DEPTH	LF	46	\$200.00	\$9,200.00
668-2200	DROP INLET, GP 2	EA		\$2,100.00	\$420.00
668-2210	DROP INLET, GP 2, ADDL DEPTH	LF	3	\$200.00	\$600.00
668-4300	STORM SEWER MANHOLE, TP 1	EA	2	\$1,900.00	\$3,800.00
668-4311	STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1	LF	9	\$210.00	\$1,890.00
668-5000	JUNCTION BOX	EA		\$1,700.00	\$1,700.00
668-7000	DRIVEWAY GRATE INLET, SPECIAL DESIGN, 30 IN.	EA	2	\$7,000.00	\$14,000.00
668-8011	SAFETY GRATE, TP 1	SF	78	\$65.00	\$5,070.00
	EROSION CONTROL				
163-0232	TEMPORARY GRASSING	AC	25	\$700.00	\$17,500.00
163-0240	MULCH	TN	1168	\$330.00	\$385,440.00
163-0300	CONSTRUCTION EXIT	EA	7	\$1,500.00	\$10,500.00
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP3	EA	50	\$600.00	\$30,000.00
163-0521	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	EA	670	\$200.00	\$134,000.00
163-0531	CONSTRUCT AND REMOVE TEMPORARY SEDIMENT BASIN TP 1	EA	2	\$10,000.00	\$20,000.00
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	170	\$250.00	\$42,500.00
165-0010	MAINTENANCE OF TEMPORARY SILT FENCE - TYPE A	LF	12900	\$2.00	\$25,800.00
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE - TYPE C	LF	5000	\$2.00	\$10,000.00
165-0040	MAINTENANCE OF EROSION CONTROL CHECKDAMS / DITCH CHECKS	LF	670	\$100.00	\$67,000.00
165-0060	MAINTENANCE OF TEMPORARY SEDIMENT BASIN	EA	2	\$1,000.00	\$2,000.00
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	50	\$200.00	\$10,000.00
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	7	\$575.00	\$4,025.00
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	170	\$125.00	\$21,250.00
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	2	\$1,600.00	\$3,200.00
167-1500	WATER QUALITY INSPECTIONS	MO	24	\$900.00	\$21,600.00
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	25700	\$3.00	\$77,100.00
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	9900	\$3.00	\$29,700.00
700-6910	PERMANENT GRASSING	AC	50	\$1,300.00	\$65,000.00
700-7000	AGRICULTURAL LIME	TN	99	\$150.00	\$14,850.00
700-7010	LIQUID LIME	GL	124	\$25.00	\$3,100.00
700-8000	FERTILIZER MIXED GRADE	TN	50	\$325.00	\$16,250.00
700-8100	FERTILIZER NITROGEN CONTENT	LB	2471	\$1.85	\$4,571.35
715-220	BITUMINOUS TREATED ROVING, WATERWAYS	SY	23100	\$3.00	\$69,300.00
716-2000	EROSION CONTROL MATS, SLOPES	SY	112400	\$1.50	\$168,600.00
	SIGNING AND MARKING				
636-1020	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	SF	882	\$18.00	\$15,876.00
636-1031	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 6	SF	1419	\$28.00	\$39,732.00
636-1032	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 6	SF	38	\$30.00	\$1,140.00
636-2070	GALV STEEL POSTS, TP 7	LF	3456	\$8.50	\$29,376.00

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	COST
639-2002	STEEL WIRE STRAND CABLE, 3/8 IN	EA	350	\$2.50	\$875.00
639-3004	STEEL STRAIN POLE, TP IV	EA	2	\$8,625.00	\$17,250.00
653-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	120	\$70.00	\$8,400.00
653-0170	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	EA	44	\$85.00	\$3,740.00
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	50250	\$1.60	\$80,400.00
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	33500	\$0.40	\$13,400.00
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	420	\$4.00	\$1,680.00
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	2800	\$1.70	\$4,760.00
653-4501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	LF	41875	\$0.30	\$12,562.50
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	15813	\$2.80	\$44,276.40
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	429	\$3.30	\$1,415.70
654-1001	RAISED PVMT MARKERS TP 1	EA	1798	\$4.20	\$7,551.60
	RAISED PVMT MARKERS TP 3	EA	1000	\$4.00	\$4,000.00
	RAISED PVMT MARKERS TP 10	EA	56	\$30.50	\$1,708.00
	PREFORMED PLASTIC SOILD PVMT MKG, 5 IN, WHITE, TP PB	LF	1350	\$4.15	\$5,602.50
	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	GLF	450	\$2.60	\$1,170.00
657-6054	PREFORMED PLASTIC SOILD PVMT MKG, 5 IN, YELLOW, TP PB	LF	450	\$4.15	\$1,867.50

**Subtotal Construction Cost** \$ 15,655,945.34  
 Inflation Rate 5%/Year for 2 Years \$ 1,604,734.40  
 E&C Rate 10% \$ 1,565,594.53  
**Total Construction Cost** \$ 18,826,274.28  
  
**EDS-545(37) Total Project Cost** \$ 32,050,274.28

## CONSTRUCTION COST ESTIMATE

Project: SR 17 ROADWAY IMPROVEMENTS  
 Project No.: BHN-050-2(20)  
 County: STEPHENS

Prepared by:   
 Last Modified:

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT PRICE	COST
207-0203	FOUND BK FILL MATL, TP II	CY	713	\$45.00	\$32,085.00
500-3101	CLASS A CONCRETE	CY	1090	\$520.00	\$566,856.16
511-1000	BAR REINF STEEL	LB	124398	\$1.00	\$124,398.00
603-2030	STN DUMPED RIP RAP, TP1, 30 IN	SY	295	\$50.00	\$14,750.00
603-7000	PLASTIC FILTER FABRIC	SY	1507	\$5.00	\$7,533.33

**Subtotal Construction Cost** \$745,622.49  
 Inflation Rate 5%/Year for 2 Years \$ 76,426.31  
 E&C Rate 10% \$ 74,562.25  
**BHN-050-2(20) Total Construction Cost** \$ 896,611.05  
  
**Total Project Cost** \$ 896,611.05

**Grand Total Project Cost EDS-545(37) & BHN-050-2(20)** \$ 32,946,885.32