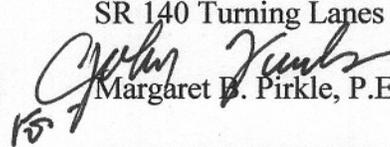


D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 632840, Cherokee County **OFFICE** Preconstruction
STP-187-1(25)
SR 140 Turning Lanes **DATE** September 9, 2005

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

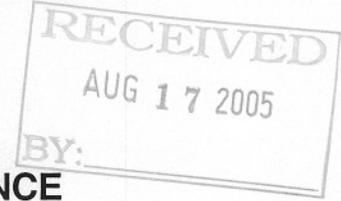
Attachment

DISTRIBUTION:

Brian Summers
Harvey Keeper
Ken Thompson
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Kent Sager
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE: STP 187-1 (25), Cherokee County
PI No. 632840
Turning Lanes along SR 140

OFFICE: Cartersville

DATE: August 17, 2005

FROM: Curtis D. Comer, P.E., Assistant District Engineer

TO: Meg Pirkle, Assistant Director Pre-construction

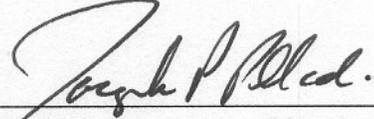
SUBJECT: Revised Project Concept Report

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

The proposed project consists of constructing a center turn lane on SR 140 from Mountain Rd. to Arnold Mill Rd.

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

Date 8/22/05



State Transportation Planning Administrator

Distribution:

Brian Summers
Harvey Keepler
Carla W. Holmes
Joseph Palladi
Jamie Simpson
File

REVISED PROJECT CONCEPT REPORT

STP 187-1 (25), Cherokee County
PI No. 632840

Need and Purpose: This section of SR 140 is located in a rapidly developing section of Cherokee County. This project is needed due to the 68 accidents over the 3-year period as shown on the attached history. The addition of a center turn lane will provide storage for vehicles making left turns, therefore allowing the mainline traffic to flow unimpeded. This project will increase safety and operating efficiency of this section of SR 140. **(This Need and Purpose was on the original concept from District Design.)**

Project location: The project will begin approximately 500 ft. north of Mountain Rd (M.P. 25.03) and end approximately 500 ft. south of Arnold Mill Rd. (M.P. 26.81) for a project length of 1.78 miles. The project ends approximately 900 feet from the Cherokee/Fulton county line.

Description of the approved concept: This project is the addition of center turn lanes on SR 140 from Mountain Rd. to Arnold Mill Rd. in Cherokee County.

PDP Classification: Major _____ Minor X
Full Oversight (), Exempt (X), SF (), Other ()

Functional Classification: Rural Minor Arterial

U. S. Route Number(s) none **State Route Number(s):** SR 140

Traffic (ADT) as shown in the approved concept:

Current Year: (2005) 18500 Design Year: (2025) 34000

Proposed features to be revised: The speed design needs to be revised from 55 m.p.h. to 45 m.p.h. due to a change in speed limit along SR 140. According to a letter from Harry A. Maddox, District Traffic Engineer, dated September 25, 2002, the speed limit on SR 140 is to be lowered to 45 m.p.h. from M.P. 22.02 to M.P. 27.00 due to the growth of residential and commercial development in the area.

Describe the revised feature(s) to be approved: Revising the Speed design from 55 m.p.h. to 45 m.p.h. will affect the following controlling criteria:

Maximum Grade: 6% (was 5%)
Minimum Radii: 587' (was 960')

Updated traffic data (AADT):

Same as approved concept (see above).

Programmed/Schedule:

P. E.: 11-9-1999

R/W: 6-30-2005

Construction: 7-15-2006

Revised cost estimates:

- | | |
|--|-----------------|
| 1. Construction cost including inflation and E&C,- | \$ 2,191,000.00 |
| 2. Right-of-way, and - | \$ 3,003,000.00 |
| 3. Utilities – (reimbursable) | \$ 0.00 |

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

This project is for center turn lanes on SR 140 from mountain Rd. to Arnold Mill Rd. The number of through lanes will be two (2). The proposed open to traffic year will be 2007.

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map,
2. Cost Estimate,
3. Other supporting documents.

Concur:



Director of Preconstruction

Approve:



Chief Engineer

Rec. 11/22/02
DWR

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

OFFICE Traffic Operations
Cartersville, Ga.

DATE September 25, 2002

FROM:  Harry A. Maddox, District Traffic Engineer

TO: Phillip M. Allen, State Traffic Safety and Design Engineer
Attn: Del Clippard

SUBJECT: ETI for SR 140 in Cherokee County, Georgia -

Submitted for your review and further handling is an ETI Report for State Route 140 in the Cherokee County.

The request is to lower the speed limit on State Route 140 from 55 miles per hour to 45 miles per hour, from mile point 22.02 to mile point 27.00. The intent of this request is to lower the speed limit due to the growth of residential and commercial development in the area.

Should you have any questions pertaining to this matter, or we can be of further assistance, please advise.

HAM/MWL/ml

(ATTACHMENTS)
ETI Report w/map

GEORGIA
DEPARTMENT OF TRANSPORTATION
Office of Traffic Operations

ENGINEERING and TRAFFIC INVESTIGATION REPORT
9-2002-057-A

Date: 9-25-2002

District: SIX

ORIGIN, LOCATION, REASON: This Office received a request from Harry Maddox, District Traffic Engineer, to review the speed limit on State Route 140 in Cherokee County, beginning at mile point 22.22, (106 feet east of County Road 1496 White Columns Boulevard) and extending to mile point 27.00, (Fulton County Line) a distance of 4.98 miles. The reason for this request is due to the growth in population and commercial establishments along this section of State Route 140.

AREA DESCRIPTION: The area in which the study was performed is a two lane roadway which consists of two twelve foot travel lanes, three foot paved shoulders, and earth shoulders up to ten feet. The adjacent land use area along this section of State Route 140 consists of residential housing, commercial establishments, and wooded property.

SPEED DATA: The existing speed limit on State Route 140 is 55 miles per hour, beginning at mile point 18.20, (County Road 287 Russell King Lane) and extending through mile point 27.00, (the Fulton County Line). This segment of roadway is enforceable by radar surveillance by the Department of Public Safety and the Cherokee County Sheriff's Office. A spot speed study conducted May 1, 2001 in five different locations, revealed the following averages 85th percentile speed to be 54 miles per hour and a ten mile an hour pace range of 44.4 to 53.4 miles per hour with 70.4% of the total sample within the range. The average speed is calculated to be 49.2 miles per hour.

VOLUME: The annual average daily traffic for State Route 140 throughout the area of study has an average of 10,418 vehicles per day.

ACCIDENT HISTORY:

2000- 26 Total Accidents -8 Injuries-0 Fatalities

1 sideswipe
14 rear end
2 right angle
2 left turn
7 other

2001- 51 Total Accidents -19 Injuries-0 Fatalities

3 sideswipe
31 rear end
9 right angle
4 left turn
7 other

STATE ROUTE 140, CHEROKEE COUNTY
MILE POINT 22.02 TO 27.00

ACCIDENT HISTORY: continued

2002 (from 1/01/02 to 8/15/02)- 34 Total Accidents -13 Injuries-0 Fatalities

- 5 sideswipe
- 17 rear end
- 7 right angle
- 2 left turn
- 3 other

OTHER FINDINGS: This section of roadway in which the request is being made consist of grades approaching four percent. The roadway is striped with white skip lines, solid white lines, and solid yellow with yellow skip lines.

CONCLUSION: Based upon the findings of the study area. The speed limit on State Route 140 should be reduced from 55 miles per hour to 45 miles per hour, beginning at mile point 22.02, (106 feet east of County Road 1496 White Columns Boulevard) and extending to mile point 27.00, (Fulton County Line) a distance of 4.98 miles. The findings of the study indicate traffic volumes, combined with crash history, delays and the anticipated increase in development are sufficient to warrant the lowering of the speed limit from 55 miles per hour to 45 miles per hour. With the reduction in speed the safety and efficiency of this section of roadway will be enhanced.

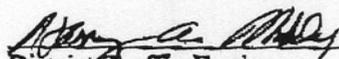
RECOMMENDATION: It is recommended that the speed limit on the above referenced roadway be lowered to 45 miles per hour, beginning at mile point 22.02, (106 feet east of County Road 1496 White Columns Boulevard) and extending to mile point 27.00, (Fulton County Line) a distance of 4.98 miles.

DESCRIPTION OF SEGMENT:

State Route 140, Cherokee County

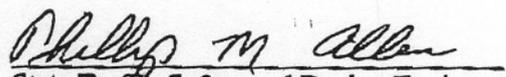
Beginning at mile point 22.02, (106 feet east of County Road 1496 White Columns Boulevard) and extending to mile point 27.00, (Fulton County Line) a distance of 4.98 miles, the speed limit shall be 45 miles per hour.

RECOMMENDED BY:

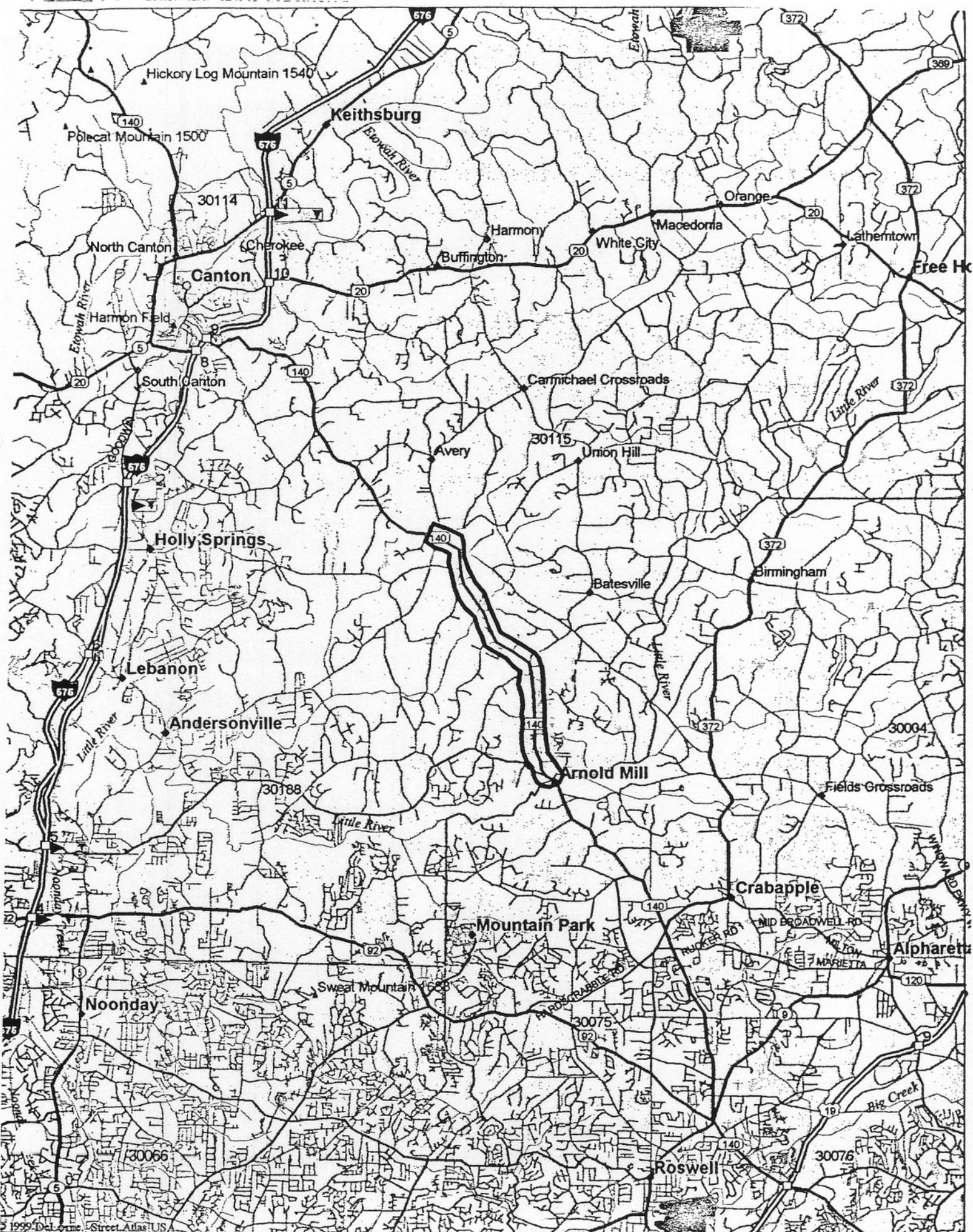

District Traffic Engineer

9-26-02
Date

APPROVED BY:


State Traffic Safety and Design Engineer

10-21-02
Date



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: R/W Cost Estimate

OFFICE: Cartersville

DATE: August 15, 2005

FROM: Pam Digsby, District Right of Way Team Manager



**TO: Don Brown, State Right of Way Administrator
ATTN: Tom LeMaster**

SUBJECT: RIGHT OF WAY COST ESTIMATE

PROJECT: STP-187-1(25) Cherokee

P.I. NUMBER: 632840

Attached is the project Right of Way Cost Estimate on the above referenced project. It is estimated that the cost of right of way plus all related expenses will be **\$ 3,003,000.00**.

If we can offer further assistance, please contact me or Charles Swanson of this office at (770) 387-3658.

DETAIL COST ESTIMATE SUMMARY SHEET

DATE: 8-15-2005 P.I#: 632840
PROJECT: STP-187-1(25) Cherokee PARCELS: 70
PROJECT DESCRIPTION: S.R. 140 from C.R. 777/Arnold Mill Road to C.R. 311/ Mountain Road

1. LAND: (Total area and cost by category)
Right of Way: Commercial - 3.104 acres x \$186,389 (average per acre) \$ 578,552.00
Residential - 6.72 acres x \$36,000 (average per acre) \$ 241,920.00
Permanent and Temporary Easement: (includes work easements) \$ 25,730.00
Total \$ 846,202.00

2. IMPROVEMENTS:
Main Structures: \$ 100,000.00
Site Improvements: \$ 249,100.00
Total \$ 349,100.00

3. Damages:
Damages to Land and Structures \$151,000.00
Specialty Costs (Cost to Cures, Trade Fixtures, etc.) \$ 26,000.00
Total \$ 177,000.00

4. RELOCATION: (Including Consequential Displacements)
Businesses (# Displaced x \$15,000): \$ N/A
Residential Tenant: (3 Displaced x \$20,000): \$ 60,000.00
Residential Owner (1 Displaced x \$34,000): \$ 34,000.00
Total \$ 94,000.00

5. Property Management (Asbestos Removal and Demolition)
Number of Structures 4 X \$12,000/structure \$ 48,000.00
Estimated Cost of Right of Way \$1,514,302.00

C/O, Condemnation Increase & Legal Cost (50% of R/W) \$ 757,151
Service Fees and Appraisal Cost(70 Par x \$4000) \$ 280,000
Condemnation Cost (70 Par x 10% x \$5,500) \$ 38,500
Incidentals (70 Par x \$2,000) \$ 140,000

Sub-Total \$1,215,651

Net Cost \$ 2,729,953.00

Inflation (5% rural, 10% urban) \$ 272,995.00

TOTAL COST \$ 3,002,948.00

TOTAL COST (ROUNDED) \$ 3,003,000.00

Credits: # Hours
Charles Swanson 45

Cc: DeWayne Comer
Attachment(s): Project Location Map; Comparable Sales Data

REVISED: 3-28-05

Estimate Report for file "632840"

Section ROADWAY					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	100000.00	TRAFFIC CONTROL - STP 187 - 1 (25)	100000.00
207-0203	6	CY	34.30	FOUND BKFILL MATL, TP II	205.80
210-0100	1	LS	350000.00	GRADING COMPLETE - STP 187 - 1 (25)	350000.00
310-1101	14900	TN	13.82	GR AGGR BASE CRS, INCL MATL	205918.00
400-3101	4990	TN	50.00	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	249500.00
402-1811	620	TN	40.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL	25401.40
402-3112	2400	TN	45.62	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	109488.00
402-3121	3600	TN	36.42	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	131112.00
413-1000	2930	GL	0.96	BITUM TACK COAT	2812.80
441-0301	1	EA	1636.52	CONC SPILLWAY, TP 1	1636.52
441-0754	540	SY	37.90	CONCRETE MEDIAN, 7 1/2 IN	20466.00
441-6222	2900	LF	10.93	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	31697.00
446-1001	13600	LF	1.74	PVMT REINF FABRIC STRIPS, TP 1, INCL BITUM BINDER	23664.00
500-3101	91	CY	451.80	CLASS A CONCRETE	41113.80
500-3900	11	CY	701.48	CLASS B CONCRETE, INCL REINF STEEL	7716.28
511-1000	7848	LB	0.69	BAR REINF STEEL	5415.12
550-1180	356	LF	28.02	STORM DRAIN PIPE, 18 IN, H 1-10	9975.12
550-1241	320	LF	34.20	STORM DRAIN PIPE, 24 IN, H 10-15	10944.00
550-1242	48	LF	30.94	STORM DRAIN PIPE, 24 IN, H 15-20	1485.12
550-1301	52	LF	43.75	STORM DRAIN PIPE, 30 IN, H 10-15	2275.00
550-1362	180	LF	80.52	STORM DRAIN PIPE, 36 IN, H 15-20	14493.60
550-2180	1376	LF	22.87	SIDE DRAIN PIPE, 18 IN, H 1-10	31469.12
550-3318	7	EA	636.96	SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE	4458.72
550-3324	2	EA	881.86	SAFETY END SECTION 24 IN, STORM DRAIN, 4:1 SLOPE	1763.72
550-3418	42	EA	498.88	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	20952.96
550-4224	4	EA	474.26	FLARED END SECTION 24 IN, STORM DRAIN	1897.04
550-4230	2	EA	646.73	FLARED END SECTION 30 IN, STORM DRAIN	1293.46
550-4236	2	EA	848.69	FLARED END SECTION 36 IN, STORM DRAIN	1697.38
603-2024	72	SY	40.91	STN DUMPED RIP RAP, TP 1, 24 IN	2945.52
603-2182	59	SY	42.84	STN DUMPED RIP RAP, TP 3, 24 IN	2527.56
603-7000	59	SY	3.96	PLASTIC FILTER FABRIC	233.64
610-9099	1	LS	5000.00	REM WINGWALLS & PARAPETS, STA - 50+11.10	5000.00
611-9000	1	EA	551.51	CAPPING MINOR STRUCTURE	551.51
634-1200	159	EA	84.45	RIGHT OF WAY MARKERS	13427.55
636-5010	16	EA	36.96	DELINEATOR, TP 1	591.36
641-1100	20	LF	29.19	GUARDRAIL, TP T	583.80
641-1200	2600	LF	11.90	GUARDRAIL, TP W	30940.00
641-5001	5	EA	440.34	GUARDRAIL ANCHORAGE, TP 1	2201.70
641-5012	5	EA	1424.68	GUARDRAIL ANCHORAGE, TP 12	7123.40
668-1100	2	EA	1718.35	CATCH BASIN, GP 1	3436.70
668-1100	5	EA	1718.35	CATCH BASIN, GP 1	8591.75
668-2100	6	EA	1996.99	DROP INLET, GP 1	11981.94
668-2100	3	EA	1996.99	DROP INLET, GP 1	5990.97
668-5000	1	EA	1413.98	JUNCTION BOX	1413.98
668-7018	2	EA	1366.67	DRAIN INLET, 18 IN	2733.34
Section Sub Total:					\$1,509,126.68

Section EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	12	AC	766.52	PERMANENT GRASSING	9198.24
700-7000	35	TN	56.82	AGRICULTURAL LIME	1988.70
700-7010	29	GL	19.38	LIQUID LIME	562.02
700-8000	12	TN	224.44	FERTILIZER MIXED GRADE	2693.28
700-8100	1160	LB	1.43	FERTILIZER NITROGEN CONTENT	1658.80

715-2200	7830	SY	1.96	BITUMINOUS TREATED ROVING, WATERWAYS	15346.80
716-2000	49600	SY	1.12	EROSION CONTROL MATS, SLOPES	55552.00
Section Sub Total:					\$86,999.84

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	6	AC	462.63	TEMPORARY GRASSING	2775.78
163-0240	280	TN	190.18	MULCH	53250.40
163-0503	7	EA	451.25	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	3158.75
163-0520	70	LF	12.12	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	848.40
163-0530	1000	LF	2.36	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	2360.00
165-0010	4300	LF	0.91	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	3913.00
165-0030	2400	LF	1.19	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	2856.00
165-0070	500	LF	1.23	MAINTENANCE OF BALED STRAW EROSION CHECK	615.00
165-0087	7	EA	160.99	MAINTENANCE OF SILT CONTROL GATE, TP 3	1126.93
167-0100	24	MO	955.65	WATER QUALITY MONITORING	22935.60
167-0200	48	EA	58.24	WATER QUALITY SAMPLING	2795.52
171-0010	8600	LF	1.76	TEMPORARY SILT FENCE, TYPE A	15136.00
171-0030	4700	LF	3.06	TEMPORARY SILT FENCE, TYPE C	14382.00
Section Sub Total:					\$126,153.38

Section TRAFFIC SIGNS					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
647-1000	1	LS	60000.00	TRAFFIC SIGNAL INSTALLATION NO - 1	60000.00
652-0094	15	EA	38.49	PAVEMENT MARKING, SYMBOL, TP 4	577.35
652-0110	15	EA	37.16	PAVEMENT MARKING, ARROW, TP 1	557.40
652-5451	4800	LF	0.12	SOLID TRAFFIC STRIPE, 5 IN, WHITE	576.00
652-6501	4700	GLF	0.07	SKIP TRAFFIC STRIPE, 5 IN, WHITE	329.00
653-0120	65	EA	56.13	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	3648.45
653-1501	21100	LF	0.25	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	5275.00
653-1502	19700	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	4531.00
653-1704	400	LF	3.18	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	1272.00
653-1804	1300	LF	1.47	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	1911.00
653-3501	350	GLF	0.13	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	45.50
653-3502	15400	GLF	0.13	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	2002.00
653-6004	330	SY	2.41	THERMOPLASTIC TRAF STRIPING, WHITE	795.30
653-6006	240	SY	2.53	THERMOPLASTIC TRAF STRIPING, YELLOW	607.20
654-1001	425	EA	3.20	RAISED PVMT MARKERS TP 1	1360.00
654-1003	250	EA	3.20	RAISED PVMT MARKERS TP 3	800.00
Section Sub Total:					\$84,287.20

Total Estimated Cost: \$1,806,567.10

Subtotal Construction Cost \$1,806,567.10

E&C Rate 10.0 % \$180,656.71

Inflation Rate 5.0 % @ 2.0 Years \$203,690.44

Total Construction Cost \$2,190,914.25

Right Of Way	\$3,003,000.00
ReImb. Utilities	\$0.00

Grand Total Project Cost	\$5,193,914.25
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