

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**OFFICE OF DESIGN POLICY & SUPPORT  
INTERDEPARTMENTAL CORRESPONDENCE**

**FILE** P.I. #0008406 & 322450-                      **OFFICE** Design Policy & Support  
CSNHS-0008-00(406) &  
STP00-0155-01(021)  
Peach & Houston Counties                      **DATE** April 21, 2010  
SR 96 Widening from I-75 to Moody Road  
- Phases I & II

**FROM**  for Brent Story, State Design Policy Engineer

**TO** SEE DISTRIBUTION

**SUBJECT** **APPROVED LOCATION & DESIGN REPORT**

Attached is the approved Location and Design Report for the above subject projects.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator  
Ron Wishon, State Project Review Engineer  
Glenn Bowman, State Environmental Administrator  
Keith Golden, State Traffic Operations Engineer (interim)  
Angela Alexander, State Transportation Planning Administrator  
Paul Liles, State Bridge Engineer  
Bobby Hilliard, State Program Delivery Engineer  
Angela Robinson, Financial Management Administrator  
David Millen, Thomaston District Engineer  
Tom Queen, Thomaston District Planning & Programming Engineer  
Vinesha Pegram, Project Manager  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** STP00-0155-01(021) & CSNHS-0008-00(406) **OFFICE:** Program Delivery  
Peach/Houston Counties  
P.I. Nos.: 322450 & 0008406  
SR 96 Widening from I-75 to **DATE:** April 20, 2010  
Moody Road, Ph. I -II

**FROM:** Bobby Hilliard, P.E., State Program Delivery Engineer **B.H.**

**TO:** Brent Story, P.E., State Design Policy Engineer

**SUBJECT:** **Request for Location and Design Approval**

**Description and Project Proposal:**

This project is 6.6 miles in length and is located within Peach and Houston Counties. The project would widen SR 96 from two lanes to four lanes between I-75 in Peach County and Moody Road in Houston County. Project STP00-0155-01(021), PI No. 322450, begins approximately 0.4 mile east of Interstate 75 and ends east of Lake Joy Road. Project CSNHS-0008-00(406), PI No. 0008406 begins east of Lake Joy Road and ends at Moody Road. The Peach/Houston County line occurs at US 41/SR 11 within project PI No. 322450.

Phase I - Project STP00-0155-01(021), PI No. 322450, from approximately 2,112 feet (0.4 mile) east of the I-75/SR 96 interchange to Lake Joy Road, SR 96 would be widened from two (2) to four (4) lanes with a 44-foot depressed grass median, 4-foot bike lanes, 2-foot curb and gutter, and 10-foot shoulders. From Lake Joy Road to CR 414/Air Park Drive, SR 96 would be widened from two (2) to four (4) lanes with a 24-foot raised median, 4-foot bike lanes, 2-foot curb and gutter and 10-foot shoulders before matching the existing pavement section.

Phase II- Project CSNHS-0008-00(406), PI No. 0008406, just east of Lake Joy Road, from CR 414/Air Park Drive to CR 398/Heard Drive, the proposed 44-foot depressed grass median typical section would be utilized; from CR 398/Heard Drive to CR 158/Sasser Drive, the 24-foot raised median typical section would be utilized, from CR 158/Sasser Drive to CR 133/Old Perry Road, the 44-foot depressed grass median typical section would be utilized.

Both projects within the SR 96 Widening project are being cleared in one Environmental Assessment; however the project will be constructed in phases as described by each individual PI number.

In addition, there are earmarked funds identified for right-of-way for the Phase 1 project (PI No. 322450), which are represented by a unique project number (CSSTP-0008-00(835), PI No. 0008835).

**Concept Approval Date:** February 22, 1995

**Concept Update:** A Revised Concept Report was approved on 9/11/06. A second Revised Concept Report was approved on 10/29/09. The project descriptions for Phases 1 & 2 have been revised to show Lake Joy Rd rather than Houston Lake Road as the terminus (ending & beginning, respectively) for each Phase.

**Environmental Assessment and Reassessment Approval date:** Draft EA 9/23/2009  
FONSI 4/5/2010

**Public Involvement:**

Note: This section contains comments from project CSNHS-0008-00(407) in addition to projects STP00-0155-01(021) & CSNHS-0008-00(406). Disregard comments related to project CSNHS-0008-00(407).

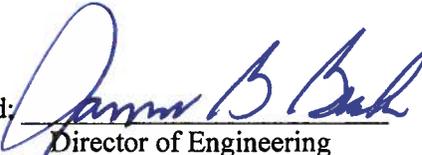
- **Public Hearing Open House Results**
  - A public hearing was held on November 17, 2009 at the Perdue Elementary School located at 115 Sutherlin Drive within the project corridor. Major concerns included utility relocations and new lines, route of proposed SR 96 in the area of existing Old Hawkinsville Road, accessibility due to proposed median, median break locations, traffic signal locations and the need or lack of need for traffic signals, displacements and time frame for ROW acquisition, impacts to Tara Estates, and the realignment of Thompson Mill Road.
  - 11 comments were received opposing the project, 12 in support, 13 uncommitted and 15 conditional.
  - A total of 51 comments were received.
  - A total of 300 people attended the public hearing open house including one public official. The public official was Ned Sanders, Chairman of the Houston County Commission.
  - Changes resulting from comments received at the PHOH include a shift in the new location alignment of SR 96 to more closely follow the existing alignment of Old Hawkinsville Road, a left only median break at Royal Oaks Drive, and shifting of the tie-in of Thompson Mill Road with SR 96 to follow the existing Thompson Mill Road alignment.
  
- **Public Information Open House**
  - A public meeting was held on May 9, 2006 at the Perdue Elementary School located at 115 Sutherlin Drive within the project corridor. Major concerns included median access, ROW impacts, traffic signal locations, impacts from the median, and the closure of the SR 96 crossing of the railroad and SR 247.
  - 8 comments were received opposing the project, 17 in support, and 10 uncommitted, and 31 conditional.
  - A total of 66 comments were received.
  - A total of 210 people attended the public information open house including four public officials. The public officials were Ned Sanders – Chairman, Houston County Commission; Tom McMichael – Houston County Commission; Pamela Greenway – Houston County Board of Education; and Willie Talton – State Representative.
  - Changes resulting from comments received at the PIOH included leaving the existing SR 96 crossing of the railroad and SR 247 open.

**Consistency with Approved Planning:**

The design description as presented herein and submitted for approval is consistent with the Approved Concept Report.

**Recommendations:**

Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

Recommend:   
Director of Engineering

Approve:  5/12/2010  
Chief Engineer Date of Approval

S.H.  
BKH:SH:VCP

**Attachments:**

1. Sketch Map
2. Cost Estimate
3. Notice of Location and Design Approval

# NOTICE OF LOCATION AND DESIGN APPROVAL

*STP00-0155-01(021), CSNHS-0008-00(406)&(407), Peach & Houston Counties*

*P. I. Nos. 322450 & 0008406*

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location approval is April 21, 2010.

The project is the widening of SR 96 from just east of I-75 in Peach County to Moody Road in Houston County. As part of this project, Lake Joy Road will be re-aligned at the intersection with SR 96. Also, SR 96 will be relocated to new location and an interchange construction at SR 247/US 129 approximately 1400' north of the existing at-grade intersection. Old Hawkinsville Road will be relocated approximately 4200' to connect Relocated SR 96 to Old SR 96. The project is located within Peach and Houston Counties and small portions are with the City of Warner Robins. The project is located within Land District 10 (Peach & Houston County) and 11 and Land Lots 59, 60, 69 and 70 in Peach County and Land Lots 13, 91, 92, 101, 102, 123, 124, 132, 133, 134, 156, 157, 164, 165, 188, 189, 196, 197, 220, 221, 228, 229, 252 and 253 in Houston County.

The project would widen SR 96 from two lanes to four lanes between I-75 in Peach County and Old Hawkinsville Road in Houston County. Project STP00-0155-01(021), PI No. 322450, begins approximately 0.4 mile east of Interstate 75 and ends east of Lake Joy Road. Project CSNHS-0008-00(406), PI No. 0008406 begins east of Lake Joy Road and ends at Moody Road. The Peach/Houston County line occurs at US41/SR 11 within project PI No. 322450.

Phase I - Project STP00-0155-01(021), PI No. 322450, from approximately 2,112 feet (0.4 mile) east of the I-75/SR 96 interchange to Lake Joy Road, SR 96 would be widened from two (2) to four (4) lanes with a 44-foot depressed grass median, 4-foot bike lanes, 2-foot curb and gutter, and 10-foot shoulders. From Lake Joy Road to CR 414/Air Park Drive, SR 96 would be widened from two (2) to four (4) lanes with a 24-foot raised median, 4-foot bike lanes, 2-foot curb and gutter and 10-foot shoulders.

Phase II- Project CSNHS-0008-00(406), PI No. 0008406, just east of Lake Joy Road, from CR 414/Air Park Drive to CR 398/Heard Drive, the proposed 44-foot depressed grass median typical section would be utilized; from CR 398/Heard Drive to CR 158/Sasser Drive, the 24-foot raised median typical section would be utilized, from CR 158/Sasser Drive to CR 133/Old Perry Road, the 44-foot depressed grass median typical section would be utilized.

Both projects within the SR 96 Widening project are being cleared in one Environmental Assessment; however the project will be constructed in phases as described by each individual PI number.

In addition, there are earmarked funds identified for right-of-way for the Phase I project (PI No. 322450), which are represented by a unique project number (CSSTP-0008-00(835), PI No. 0008835).

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

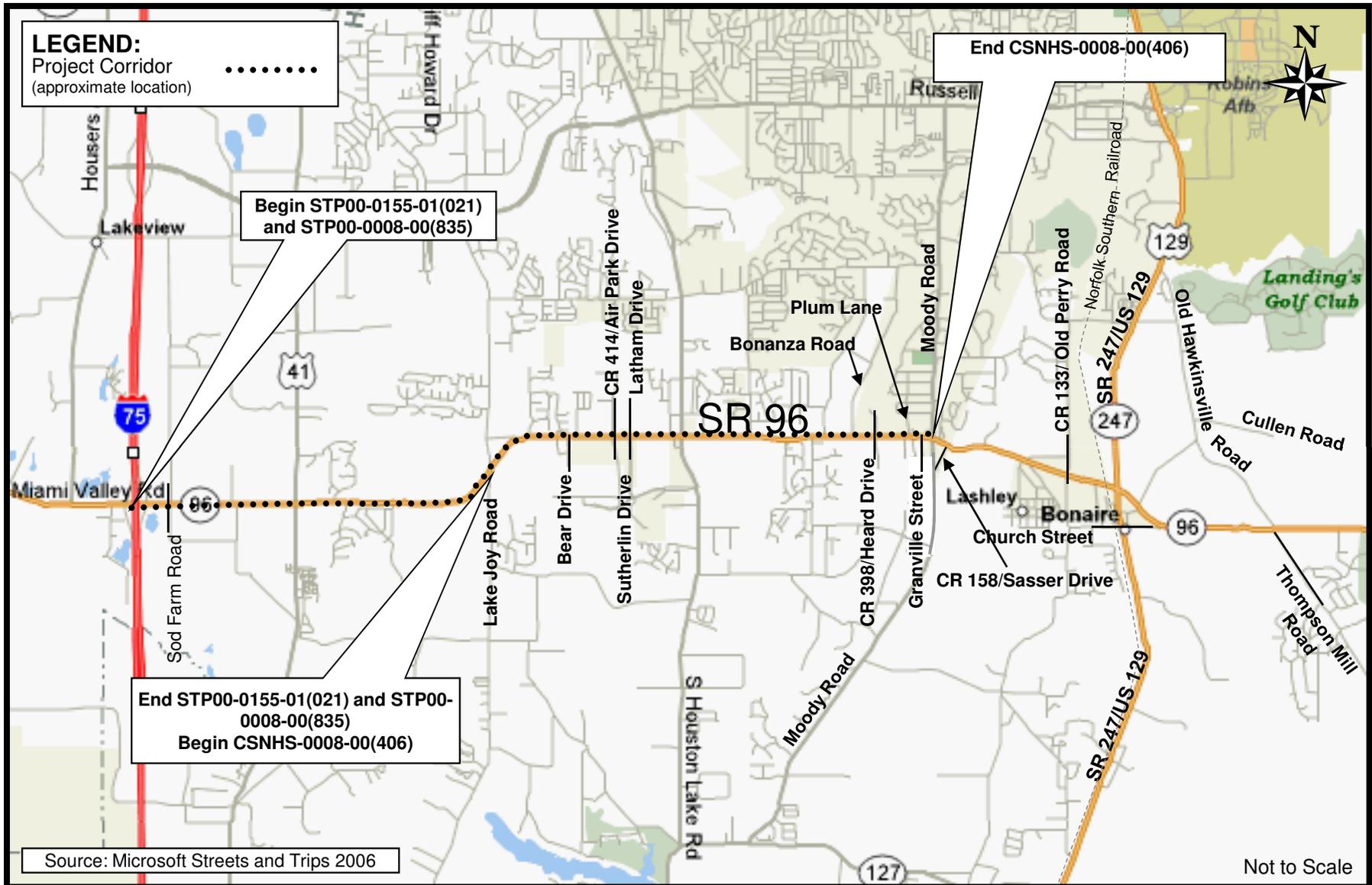
Brink Stokes  
District 3 – Area 3 Engineer  
[BStokes@dot.ga.gov](mailto:BStokes@dot.ga.gov)  
1950 Kings Chapel Road  
Perry, GA 31069  
(912) 988-6700

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Bobby K. Hilliard, P.E.  
Office of Program Delivery  
[BHilliard@dot.ga.gov](mailto:BHilliard@dot.ga.gov)  
One Georgia Center  
600 West Peachtree Street, NW  
Atlanta, GA 30308  
(404) 631-1122

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.

**Figure 1. Project Location Map**  
**SR 96 Widening and Reconstruction**  
**Peach and Houston Counties, Georgia**



# COST ESTIMATE REPORT SUMMARY

**SR 96 Widening  
STP00-0155-01 (021) & CSNHS-0008-00(406)  
Peach/Houston Counties  
P.I. No. 322450 & 0008406**

**Revised Cost Estimates\* (08/31/2009):**

1. Construction Cost

- Phase 1 (322450) – I-75 to Lake Joy Road
  - i. Construction Cost - \$19,155,409.98
  - ii. E&I (5%) - \$957,770.50
  - iii. Const. Contingencies (4%) - \$766,216.40
  - iv. Asphalt/Fuel Index Adjustment costs - \$5,932,022.03**Phase 1 Total – \$26,811,418.91**
  
- Phase 2 (0008406) – Lake Joy Road to Moody Road
  - i. Construction Cost - \$10,310,946.24
  - ii. E&I (5%) - \$515,547.31
  - iii. Const. Contingencies (4%) - \$412,437.85
  - iv. Asphalt/Fuel Index Adjustment costs - \$2,725,527.10**Phase 2 Total – \$13,964,458.50**

***Construction Cost Total - \$40,775,877.41***

2. Right-of-way, including contingencies:

- Phase 1 (322450) – I-75 to Lake Joy Road - \$11,858,357
  - Phase 2 (0008406) – Lake Joy Road to Moody Road - \$5,665,457
- Total - \$17,523,814**

3. Reimbursable Utilities (see attached Utility Report for breakdown by Utility):

- Phase 1 (322450) – I-75 to Lake Joy Road - \$229,195
  - Phase 2 (0008406) – Lake Joy Road to Moody Road - \$1,194,922
- Total - \$1,424,117**

**Total Cost: \$59,723,808.41**

*\*Does not include Inflation Rate*

**Estimate Report for file "SR 96 Widening - PI 322450 - 08-31-09"**

<b>Section Roadway</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
150-1000	1	LS	170000.00	TRAFFIC CONTROL -	170000.00
153-1300	1	EA	73914.48	FIELD ENGINEERS OFFICE TP 3	73914.48
205-0001	72000	CY	2.47	UNCLASS EXCAV	177840.00
206-0002	118900	CY	2.98	BORROW EXCAV, INCL MATL	354322.00
310-5100	234177	SY	16.44	GR AGGR BASE CRS, 10 INCH, INCL MATL	3849869.88
402-3121	115918	TN	59.47	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	6893643.46
402-3130	19320	TN	64.13	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	1238991.60
402-3190	25760	TN	67.77	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	1745755.20
413-1000	32785	GL	2.00	BITUM TACK COAT	65570.00
441-0104	21833	SY	30.72	CONC SIDEWALK, 4 IN	670709.76
441-0740	10384	SY	32.91	CONCRETE MEDIAN, 4 IN	341737.44
441-4030	990	SY	43.89	CONC VALLEY GUTTER, 8 IN	43451.10
441-6022	39300	LF	12.46	CONC CURB & GUTTER, 6 IN X 30 IN, TP 2	489678.00
441-6720	39300	LF	10.93	CONC CURB & GUTTER, 6 IN X 30 IN, TP 7	429549.00
550-1180	7920	LF	36.27	STORM DRAIN PIPE, 18 IN, H 1-10	287258.40
550-1240	3960	LF	41.79	STORM DRAIN PIPE, 24 IN, H 1-10	165488.40
550-1360	3960	LF	62.22	STORM DRAIN PIPE, 36 IN, H 1-10	246391.20
634-1200	150	EA	93.93	RIGHT OF WAY MARKERS	14089.50
641-1200	330	LF	17.89	GUARDRAIL, TP W	5903.70
668-1100	99	EA	2429.74	CATCH BASIN, GP 1	240544.26
668-1200	17	EA	3088.68	CATCH BASIN, GP 2	52507.56
668-2100	41	EA	2360.78	DROP INLET, GP 1	96791.98
<b>Section Sub Total:</b>					<b>\$17,654,006.92</b>

<b>Section Temporary Erosion Control</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
163-0232	5	AC	283.37	TEMPORARY GRASSING	1416.85
163-0240	15	TN	129.90	MULCH	1948.50
163-0300	2	EA	1148.70	CONSTRUCTION EXIT	2297.40
163-0527	115	EA	78.59	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	9037.85
163-0531	5	EA	7381.63	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -	36908.15
163-0550	225	EA	188.29	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	42365.25
165-0010	9850	LF	0.53	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	5220.50
165-0030	11800	LF	0.66	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	7788.00
165-0060	5	EA	1698.39	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	8491.95
165-0101	2	EA	481.34	MAINTENANCE OF CONSTRUCTION EXIT	962.68
165-0105	225	EA	78.69	MAINTENANCE OF INLET SEDIMENT TRAP	17705.25
167-1000	4	EA	460.30	WATER QUALITY MONITORING AND SAMPLING	1841.20
167-1500	24	MO	685.80	WATER QUALITY INSPECTIONS	16459.20
171-0010	19700	LF	1.84	TEMPORARY SILT FENCE, TYPE A	36248.00
171-0030	23600	LF	2.95	TEMPORARY SILT FENCE, TYPE C	69620.00
700-8000	1	TN	409.57	FERTILIZER MIXED GRADE	409.57
<b>Section Sub Total:</b>					<b>\$258,720.35</b>

<b>Section Permanent Erosion Control</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
163-0240	30	TN	129.90	MULCH	3897.00
603-2180	2060	SY	29.95	STN DUMPED RIP RAP, TP 3, 12 IN	61697.00
603-7000	2060	SY	3.80	PLASTIC FILTER FABRIC	7828.00
700-6910	10	AC	674.07	PERMANENT GRASSING	6740.70
700-7000	30	TN	60.51	AGRICULTURAL LIME	1815.30
700-7010	25	GL	20.53	LIQUID LIME	513.25
700-8000	6	TN	409.57	FERTILIZER MIXED GRADE	2457.42

700-8100	500	LB	2.30	FERTILIZER NITROGEN CONTENT	1150.00
716-2000	7071	SY	0.95	EROSION CONTROL MATS, SLOPES	6717.45
<b>Section Sub Total:</b>					<b>\$92,816.12</b>

**Section Signing & Marking**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	800	SF	16.67	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	13336.00
636-1029	200	SF	14.67	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	2934.00
636-1033	600	SF	20.24	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	12144.00
636-1041	200	SF	37.36	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	7472.00
636-2070	2400	LF	8.71	GALV STEEL POSTS, TP 7	20904.00
636-2080	1000	LF	11.48	GALV STEEL POSTS, TP 8	11480.00
636-2090	400	LF	9.36	GALV STEEL POSTS, TP 9	3744.00
636-3010	4	EA	569.19	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	2276.76
639-2002	800	LF	3.68	STEEL WIRE STRAND CABLE, 3/8 IN	2944.00
639-3003	6	EA	8208.00	STEEL STRAIN POLE, TP III	49248.00
653-0120	195	EA	72.49	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	14135.55
653-0170	28	EA	90.68	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	2539.04
653-0210	12	EA	103.08	THERMOPLASTIC PVMT MARKING, WORD, TP 1	1236.96
653-1704	600	LF	3.47	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	2082.00
653-1804	8000	LF	1.68	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	13440.00
653-2501	10	LM	1283.88	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	12838.80
653-2502	9	LM	1265.57	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	11390.13
653-4501	9	GLM	721.11	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	6489.99
653-6004	6500	SY	2.71	THERMOPLASTIC TRAF STRIPING, WHITE	17615.00
653-6006	2480	SY	2.63	THERMOPLASTIC TRAF STRIPING, YELLOW	6522.40
654-1001	224	EA	3.04	RAISED PVMT MARKERS TP 1	680.96
654-1003	920	EA	3.20	RAISED PVMT MARKERS TP 3	2944.00
<b>Section Sub Total:</b>					<b>\$218,397.59</b>

**Section Traffic Signals**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
615-1200	1570	LF	9.98	DIRECTIONAL BORE - 5 IN	15668.60
636-1041	60	SF	37.36	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	2241.60
639-3004	28	EA	12104.30	STEEL STRAIN POLE, TP IV	338920.40
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 1	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 2	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 3	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 4	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 5	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 6	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 7	68000.00
647-2160	16	EA	883.33	PULL BOX, PB-6	14133.28
647-2170	6	EA	1557.35	PULL BOX, PB-7	9344.10
682-6233	1910	LF	3.20	CONDUIT, NONMETL, TP 3, 2 IN	6112.00
935-1115	1400	LF	2.50	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 48 FIBER	3500.00
935-3105	2	EA	385.00	FIBER OPTIC CLOSURE, UNDERGROUND, 48 FIBER	770.00
935-4010	12	EA	52.14	FIBER OPTIC SPLICE, FUSION	625.68
935-6562	2	EA	1715.22	EXTERNAL TRANSCEIVER, DROP AND REPEAT, 1310 SINGLE MODE, (SIGNAL JOBS)	3430.44
935-8000	1	LS	1940.15	TESTING	1940.15
935-8500	1	LS	558.37	TRAINING	558.37

**Section Sub Total: \$873,244.62**

<b>Section Structures</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
500-3201	113	CY	515.26	CLASS B CONCRETE, RETAINING WALL	58224.38
<b>Section Sub Total:</b>					<b>\$58,224.38</b>

**Total Estimated Cost: \$19,155,409.98**

**Subtotal Construction Cost \$19,155,409.98**

E&C Rate 0.0 % \$0.00

Inflation Rate 0.0 % @ 0 Years \$0.00

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**Total Construction Cost \$19,155,409.98**

Right Of Way \$11,858,357.00

ReImb. Utilities \$229,195.00

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**Grand Total Project Cost \$31,242,961.98**

## Estimate Report for file "SR 96 Widening - PI 0008406 - 08-31-09"

Section Roadway					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	80000.00	TRAFFIC CONTROL -	80000.00
153-1300	1	EA	73914.48	FIELD ENGINEERS OFFICE TP 3	73914.48
205-0001	36000	CY	2.47	UNCLASS EXCAV	88920.00
206-0002	59500	CY	2.98	BORROW EXCAV, INCL MATL	177310.00
310-5100	107108	SY	16.44	GR AGGR BASE CRS, 10 INCH, INCL MATL	1760855.52
402-3121	53018	TN	59.47	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	3152980.46
402-3130	8836	TN	64.13	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	566652.68
402-3190	11782	TN	67.77	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	798466.14
413-1000	14995	GL	2.00	BITUM TACK COAT	29990.00
441-0104	12023	SY	30.72	CONC SIDEWALK, 4 IN	369346.56
441-0740	11586	SY	32.91	CONCRETE MEDIAN, 4 IN	381295.26
441-4030	1110	SY	43.89	CONC VALLEY GUTTER, 8 IN	48717.90
441-6022	21650	LF	12.46	CONC CURB & GUTTER, 6 IN X 30 IN, TP 2	269759.00
441-6720	21650	LF	10.93	CONC CURB & GUTTER, 6 IN X 30 IN, TP 7	236634.50
550-1180	8880	LF	36.27	STORM DRAIN PIPE, 18 IN, H 1-10	322077.60
550-1240	4440	LF	41.79	STORM DRAIN PIPE, 24 IN, H 1-10	185547.60
550-1360	4440	LF	62.22	STORM DRAIN PIPE, 36 IN, H 1-10	276256.80
634-1200	160	EA	93.93	RIGHT OF WAY MARKERS	15028.80
641-1200	370	LF	17.89	GUARDRAIL, TP W	6619.30
668-1100	111	EA	2429.74	CATCH BASIN, GP 1	269701.14
668-1200	19	EA	3088.68	CATCH BASIN, GP 2	58684.92
668-2100	46	EA	2360.78	DROP INLET, GP 1	108595.88
<b>Section Sub Total:</b>					<b>\$9,277,354.54</b>

Section Temporary Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	5	AC	283.37	TEMPORARY GRASSING	1416.85
163-0240	11	TN	129.90	MULCH	1428.90
163-0300	2	EA	1148.70	CONSTRUCTION EXIT	2297.40
163-0527	77	EA	78.59	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	6051.43
163-0531	1	EA	7381.63	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -	7381.63
163-0550	130	EA	188.29	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	24477.70
165-0010	3658	LF	0.53	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	1938.74
165-0030	8535	LF	0.66	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	5633.10
165-0060	1	EA	1698.39	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	1698.39
165-0101	2	EA	481.34	MAINTENANCE OF CONSTRUCTION EXIT	962.68
165-0105	130	EA	78.69	MAINTENANCE OF INLET SEDIMENT TRAP	10229.70
167-1000	16	EA	460.30	WATER QUALITY MONITORING AND SAMPLING	7364.80
167-1500	24	MO	685.80	WATER QUALITY INSPECTIONS	16459.20
171-0010	7315	LF	1.84	TEMPORARY SILT FENCE, TYPE A	13459.60
171-0030	17070	LF	2.95	TEMPORARY SILT FENCE, TYPE C	50356.50
700-8000	1	TN	409.57	FERTILIZER MIXED GRADE	409.57
<b>Section Sub Total:</b>					<b>\$151,566.19</b>

Section Permanent Erosion Control					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	21	TN	129.90	MULCH	2727.90
603-2180	2310	SY	29.95	STN DUMPED RIP RAP, TP 3, 12 IN	69184.50
603-7000	2310	SY	3.80	PLASTIC FILTER FABRIC	8778.00
700-6910	7	AC	674.07	PERMANENT GRASSING	4718.49
700-7000	21	TN	60.51	AGRICULTURAL LIME	1270.71

700-7010	18	GL	20.53	LIQUID LIME	369.54
700-8000	5	TN	409.57	FERTILIZER MIXED GRADE	2047.85
700-8100	350	LB	2.30	FERTILIZER NITROGEN CONTENT	805.00
716-2000	30456	SY	0.95	EROSION CONTROL MATS, SLOPES	28933.20
<b>Section Sub Total:</b>					<b>\$118,835.19</b>

**Section Signing & Marking**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	840	SF	16.67	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	14002.80
636-1029	210	SF	14.67	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	3080.70
636-1033	630	SF	20.24	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	12751.20
636-1041	210	SF	37.36	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	7845.60
636-2070	2520	LF	8.71	GALV STEEL POSTS, TP 7	21949.20
636-2080	1050	LF	11.48	GALV STEEL POSTS, TP 8	12054.00
636-2090	420	LF	9.36	GALV STEEL POSTS, TP 9	3931.20
636-3010	2	EA	569.19	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	1138.38
639-2002	760	LF	3.68	STEEL WIRE STRAND CABLE, 3/8 IN	2796.80
639-3003	6	EA	8208.00	STEEL STRAIN POLE, TP III	49248.00
653-0120	97	EA	72.49	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	7031.53
653-0160	3	EA	114.00	THERMOPLASTIC PVMT MARKING, ARROW, TP 6	342.00
653-0170	9	EA	90.68	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	816.12
653-0210	10	EA	103.08	THERMOPLASTIC PVMT MARKING, WORD, TP 1	1030.80
653-1704	630	LF	3.47	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	2186.10
653-1804	8400	LF	1.68	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	14112.00
653-2501	12	LM	1283.88	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	15406.56
653-2502	10	LM	1265.57	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	12655.70
653-4501	10	GLM	721.11	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	7211.10
653-6004	1000	SY	2.71	THERMOPLASTIC TRAF STRIPING, WHITE	2710.00
653-6006	1000	SY	2.63	THERMOPLASTIC TRAF STRIPING, YELLOW	2630.00
654-1001	240	EA	3.04	RAISED PVMT MARKERS TP 1	729.60
654-1003	1000	EA	3.20	RAISED PVMT MARKERS TP 3	3200.00
<b>Section Sub Total:</b>					<b>\$198,859.39</b>

**Section Traffic Signals**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
615-1200	5000	LF	9.98	DIRECTIONAL BORE - 5 IN	49900.00
636-1041	70	SF	37.36	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 9	2615.20
639-3004	12	EA	12104.30	STEEL STRAIN POLE, TP IV	145251.60
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 1	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 2	68000.00
647-1000	1	LS	68000.00	TRAFFIC SIGNAL INSTALLATION NO - 3	68000.00
647-2160	5	EA	883.33	PULL BOX, PB-6	4416.65
647-2170	2	EA	1557.35	PULL BOX, PB-7	3114.70
682-6233	10600	LF	3.20	CONDUIT, NONMETL, TP 3, 2 IN	33920.00
935-1115	15800	LF	2.50	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 48 FIBER	39500.00
935-3105	5	EA	385.00	FIBER OPTIC CLOSURE, UNDERGROUND, 48 FIBER	1925.00
935-4010	28	EA	52.14	FIBER OPTIC SPLICE, FUSION	1459.92
935-6562	6	EA	1715.22	EXTERNAL TRANSCEIVER, DROP AND REPEAT, 1310 SINGLE MODE, (SIGNAL JOBS)	10291.32
935-8000	1	LS	1940.15	TESTING	1940.15
935-8500	1	LS	558.37	TRAINING	558.37

**Section Sub Total: \$498,892.91**

<b>Section Structures</b>					
<b>Item Number</b>	<b>Quantity</b>	<b>Units</b>	<b>Unit Price</b>	<b>Item Description</b>	<b>Cost</b>
500-3201	127	CY	515.26	CLASS B CONCRETE, RETAINING WALL	65438.02
<b>Section Sub Total:</b>					<b>\$65,438.02</b>

**Total Estimated Cost: \$10,310,946.24**

**Subtotal Construction Cost \$10,310,946.24**

E&C Rate 0.0 % \$0.00

Inflation Rate 0.0 % @ 0 Years \$0.00

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**Total Construction Cost \$10,310,946.24**

Right Of Way \$5,665,457.00

ReImb. Utilities \$1,194,922.00

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**Grand Total Project Cost \$17,171,325.24**