

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. M003235, DeKalb-Rockdale Counties **OFFICE** Preconstruction  
CSNHS-M003-00(235)  
I-20 Milling and Resurfacing **DATE** June 21, 2007

**FROM** *Genetha Rice*  
Genetha Rice-Singleton, Assistant Director of Preconstruction

**TO** SEE DISTRIBUTION

**SUBJECT APPROVED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

GRS/cj

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Angela Alexander (file copy)  
Babs Abubakari  
Byant Poole  
BOARD MEMBER  
FHWA

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** P.I. No. M003235, Dekalb-Rockdale Counties  
CSNHS-M003-00(235)  
I-20 Milling and Resurfacing

**OFFICE:** Preconstruction

**DATE:** May 10, 2007

**FROM:**  Genetha Rice-Singleton, Assistant Director of Preconstruction

**TO:** David E. Studstill, P.E., Chief Engineer

**SUBJECT:** *PROJECT CONCEPT REPORT*

This project is the milling and resurfacing and shoulder replacement on I-20 from SR 124/ Turner Hill Road (Exit 75) to SR 138/ SR 120 (Exit 82) for a total of 6.20 miles. The existing I-20 within the project limits consist of three, 12' lanes in each direction divided by a 2.5' median barrier with variable 5'-6.75' inside and 10' outside paved shoulders. The existing right-of-way varies from 100' to 200' from the centerline on each side of the roadway. The project has a total of four (4) existing major structures with sufficiency ratings ranging from 89 to 94. State Route 402/I-20, an interstate principal arterial, is a primary east-west corridor in north Georgia. The primary purpose of this project is the rehabilitation of the existing roadway to preserve the integrity, serviceability, and safety of the interstate system. The majority of the pavement within the project is in poor to fair condition. Average daily traffic (ADT) in 2007 for this section of roadway is 124,800 VPD and the traffic levels are expected to be 200,600 VPD by 2027.

The proposed project will mill and resurface three lanes in each direction along the existing roadway with asphalt concrete. The existing inside shoulders will be reconstructed to full depth with no change to existing width. The existing outside shoulders will be reconstructed to full depth 12' wide to facilitate staging and future HOV implementation. The bridge on West Avenue/Klondike Road will be jacked due to clearance requirements. Vegetation will be cleared according to current guidelines, and guardrail will be upgraded or replaced as needed along the 6.2 mile corridor. A design exception is required for substandard inside and outside shoulder width at the following locations: median shoulder width- Dekalb County mile log 16.38 to 17.59 and Rockdale County mile log 0.00 to 4.99; for outside substandard shoulder width- Rockdale County mile log 3.34 to 3.57. Traffic will be maintained during construction. Additional rights-of-way will not be required for the proposed project.

P.I. No. M003235, Dekalb-Rockdale Counties  
May 10, 2007

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures are appropriate.

The estimated costs for this project are:

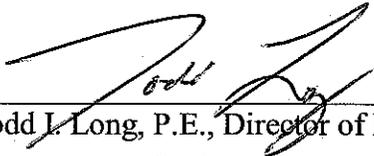
	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C And inflation)	\$ 50,378,000	\$ 51,597,000	L010	2009
Right-of-way & utilities	-0-	-0-		

I recommend this project concept be approved.

GRS: JDQ

Attachment

CONCUR

  
\_\_\_\_\_  
Todd L. Long, P.E., Director of Preconstruction

APPROVED

  
\_\_\_\_\_  
FA: Rodney A. Barry, P.E., Division Administrator FHWA

APPROVED

  
\_\_\_\_\_  
David E. Studstill, Jr. P.E., Chief Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** CSNHS-M003-00(235) DeKalb/Rockdale **OFFICE:** Engineering Services  
P.I. No. M003235  
I-20 Widening/Reconstruction

**DATE:** April 30, 2007

**FROM:** Brian K. Summers, P.E., Project Review Engineer *REW*

**TO:** Genetha Rice-Singleton, Assistant Director of Preconstruction

**SUBJECT: CONCEPT REPORT**

We have reviewed the Concept Report submitted March 27, 2007, and have no comments.

The costs for this project are:

Construction	\$45,797,903
E & C	\$4,579,790
Reimbursable Utilities	\$0.00
Right of Way	\$0.00

REW

c: Ben Buchan, Attn.: Theresa Holder

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Urban Design*

**PROJECT CONCEPT REPORT**

Project Number: CSNHS-M003-00(235)

**Dekalb and Rockdale Counties**

P. I. Number: M003235

Federal Route Number: I-20-2

State Route Number: 402

PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

*Teressa R. Hobler*  
Project Manager

DATE 3/29/07

*Jamie B. Bush*  
State Urban Design Engineer

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

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Planning Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Financial Management Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Environmental/Location Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Traffic Safety & Design Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
District Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Bridge Design Engineer

4/30/07  
DATE

*Brian K. Sumner*  
Project Review Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Maintenance Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Urban Design*

**PROJECT CONCEPT REPORT**

Project Number: CSNHS-M003-00(235)

**Dekalb and Rockdale Counties**

P. I. Number: M003235

Federal Route Number: I-20-2

State Route Number: 402

PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

*Andrea R. Holder*  
Project Manager

DATE 3/29/07

*James B. Bush*  
State Urban Design Engineer

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

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Planning Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Transportation Financial Management Administrator

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Environmental/Location Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Traffic Safety & Design Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
District Engineer

5/8/07  
DATE

*Paul V. Tiller Jr*  
State Bridge Design Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
Project Review Engineer

\_\_\_\_\_  
DATE

\_\_\_\_\_  
State Maintenance Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: CSNHS-M003-00(235)

Dekalb and Rockdale Counties

P. I. Number: M003235

Federal Route Number: I-20-2

State Route Number: 402

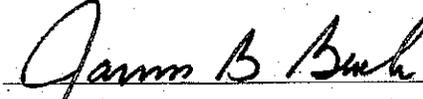
PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

  
Project Manager

DATE 3/29/07

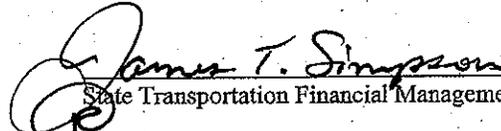
  
State Urban Design Engineer

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DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE 5-1-07

  
State Transportation Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Maintenance Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Urban Design*

**PROJECT CONCEPT REPORT**

Project Number: CSNHS-M003-00(235)

**Dekalb and Rockdale Counties**

P. I. Number: M003235

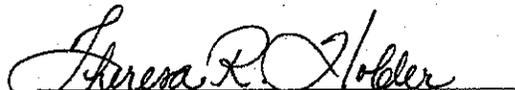
Federal Route Number: I-20-2

State Route Number: 402

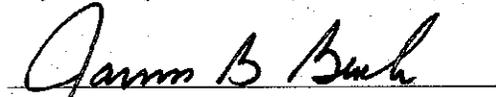
PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

  
Project Manager

DATE 3/29/07

  
State Urban Design Engineer

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4-2-07  
DATE

  
State Transportation Planning Administrator

DATE

State Transportation Financial Management Administrator

DATE

State Environmental/Location Engineer

DATE

State Traffic Safety & Design Engineer

DATE

District Engineer

DATE

State Bridge Design Engineer

DATE

Project Review Engineer

DATE

State Maintenance Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

Office of Urban Design

PROJECT CONCEPT REPORT

Project Number: CSNHS-M003-00(235)

Dekalb and Rockdale Counties

P. I. Number: M003235

Federal Route Number: I-20-2

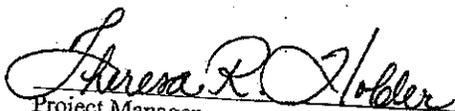
State Route Number: 402

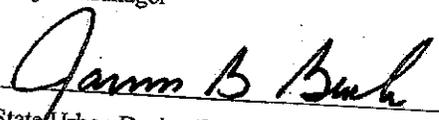
PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

DATE 3/29/07

  
Project Manager

  
State Urban Design Engineer

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DATE \_\_\_\_\_

State Transportation Planning Administrator

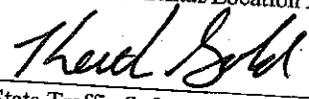
DATE \_\_\_\_\_

State Transportation Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE 4-11-07

  
State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Maintenance Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE: P.I. No. M003235**

**OFFICE: Environment/Location**

**DATE: March 18, 2005**



**FROM: Harvey D. Keepler, State Environmental/Location Engineer**

**TO: Genetha Rice-Singleton, Assistant Director of Preconstruction**

**SUBJECT: PROJECT CONCEPT REPORT  
CSNHS-M003-00(235) / DeKalb & Rockdale Counties  
I-20 from SR 124/Turner Hill to SR 138/SR 20**

The above subject concept report has been reviewed. This Office has no comments at this time.

If you have any questions, please contact me at (404) 699-4401.

HDK/lc

Attachment

cc: Brian Summers  
Ben Buchan  
Keith Golden  
Angela Alexander  
Jamie Simpson  
Bryant Poole  
Paul Liles  
David Crim

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Urban Design*

**PROJECT CONCEPT REPORT**

Project Number: CSNHS-M003-00(235)

**Dekalb and Rockdale Counties**

P. I. Number: M003235

Federal Route Number: I-20-2

State Route Number: 402

PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

  
Project Manager

DATE 3/29/07

  
State Urban Design Engineer

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

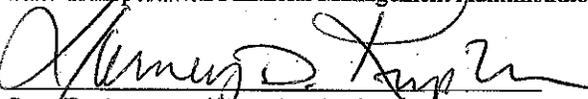
DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Financial Management Administrator

5.9.07  
DATE \_\_\_\_\_

  
State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Maintenance Engineer

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> CSNHS-M003-00(235)		<b>County:</b> DeKalb/Rockdale		<b>PI No.:</b> M003235	
<b>Report Date:</b> March 29, 2007		<b>Concept By:</b> DOT Office: Urban Design			
<input checked="" type="checkbox"/> <b>Concept Stage</b>		Consultant: N/A			
<b>Project Type:</b> Choose One From Each Column		<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input checked="" type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>			
<b>Presentation</b>	100				
<b>Judgement</b>	100				
<b>Environmental</b>	100				
<b>Right of Way</b>	100				
<b>Utility</b>	100				
<b>Constructability</b>	100				
<b>Schedule</b>	100				

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** CSNHS- M003-00(235), Dekalb/Rockdale County  
I-20 from SR 124/Turner Hill to SR 138/SR 20  
P.I. No. M003235

**OFFICE:** Urban Design

**DATE:** March 27, 2007

**FROM:**   
James B. Buchan, P.E., State Urban Design Engineer

**TO:** Genetha Rice-Singleton, Assistant Director of Preconstruction

**SUBJECT:** **Project Concept Report**

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

If you have any questions or comments, please feel free to call Jeff Simmons or Theresa Holder at (404) 656-5444.

JBB:JS

**Distribution:**

Brian Summers, Project Review Engineer  
Harvey Keepler, State Environment/Location Engineer  
Keith Golden, State Traffic Safety and Design Engineer  
Angela Alexander, State Transportation Planning Administrator  
Jamie Simpson, State Financial Management Administrator  
Bryant Poole, District Engineer, D-7  
Paul Liles, State Bridge Design Engineer  
David Crim, State Maintenance Engineer

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

*Office of Urban Design*

**PROJECT CONCEPT REPORT**

Project Number: CSNHS-M003-00(235)

**Dekalb and Rockdale Counties**

P. I. Number: M003235

Federal Route Number: I-20-2

State Route Number: 402

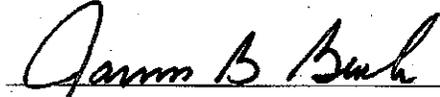
PROJECT LOCATION MAP: See Page 2

Recommendation for approval:

DATE 3/28/07

  
Project Manager

DATE 3/29/07

  
State Urban Design Engineer

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DATE \_\_\_\_\_

State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Financial Management Administrator

DATE \_\_\_\_\_

State Environmental/Location Engineer

DATE \_\_\_\_\_

State Traffic Safety & Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

State Bridge Design Engineer

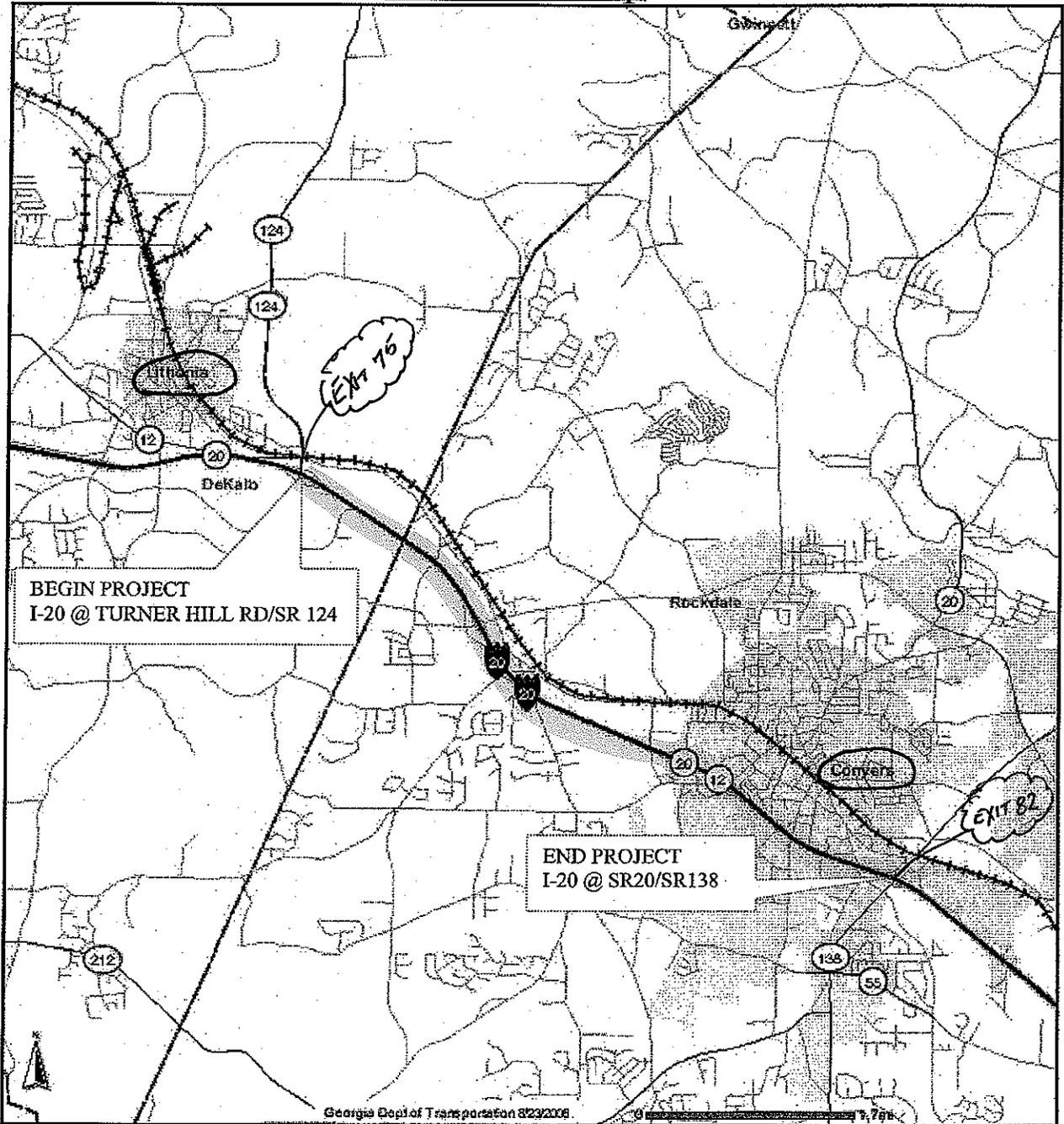
DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Maintenance Engineer

## Location Map



I-20 from Turner Hill Rd/SR 124 to SR20/SR138

Project Concept Report page   - 3 -    
 Project Number: CSNHS-M003-00(235)  
 P. I. Number: M003235  
 Counties: DeKalb/Rockdale

**Need and Purpose:** The primary purpose of this project is the rehabilitation of the existing roadway to preserve the integrity, serviceability, and safety of the interstate system. The majority of the pavement within the project is in poor to fair condition. This condition will continue to deteriorate as traffic grows. This project is the milling and resurfacing of I-20/SR 402 from Turner Hill Road/SR124 in DeKalb County to SR20/SR138 in Rockdale County.

**Description of the proposed project:** The proposed project would deep mill and inlay existing asphaltic concrete pavement and remove hazardous vegetation within the clear zone along I-20 in DeKalb and Rockdale Counties. The project begins just east of the Turner Hill Road/SR 124 Interchange (DeKalb County mile log 16.38) and ends just west of the SR 20/138 Interchange (Rockdale County mile log 4.99), an approximate length of 6.2 miles. The proposed typical section consists of three, 12-foot travel lanes in each direction, inside shoulders varying in width from five to 16 feet and 12-foot outside shoulders. The proposed design speed is 70 mph.

**Is the project located in a Non-attainment area?**   X   Yes      No  
 This project is a resurfacing project that will not add capacity to the corridor. It is exempt from Air Quality Analysis.

**PDP Classification:** Major   X   Minor       
**Federal Oversight:** Full Oversight (X), Exempt ( ), State Funded ( ), or Other ( )

**Functional Classification:**   Interstate Principal Arterial  

**U. S. Route Number(s):**   I-20   **State Route Number(s):**   SR 402  

**Traffic (AADT):**  
 Current Year: (2007)   124,800   Design Year: (2027)   200,600  

**Existing design features:**

- Typical Section: I-20 consists of 6 lanes, 3-12 foot lanes in each direction. Outside shoulders are 12 feet wide (10 feet paved). The inside shoulders vary from 5 feet to 6.75 feet paved. The median varies from 12.5 feet to 16 feet wide with a 2.5 feet median barrier.
- Posted speed:   65   mph
- Minimum radius for curve:   4775 ft.
- Maximum super-elevation rate for curve:   8%
- Maximum grade:   4.1%
- Width of right of way:   200-400 feet
- Major structures:

Bridge ID	Feature INT.	Type	Rating	Clearance	Concern
089-0305-A	SR124-Turner Hill Rd	Overpass	94.86	18'2"	no
247-0023-A	CR66-Sigman Rd	Overpass	98.07	16'10"	no
247-0019-A	CR437-West Avenue	Overpass	89.74	15'11"	YES
247-5024-A	Parker Rd/Oakland Ave.	Overpass	92.12	18'3"	no

- Major interchanges or intersections along the project:
  - SR 124 – Turner Hill Road
  - CR 66 – Sigman Road
  - CR 437 – Klondike Rd / West Avenue
- Existing length of roadway segment for Dekalb County: 1.21 miles  
 Beginning to End mile logs for Dekalb County: 16.38 to 17.59  
 (State Mile Point MP 75.76 to MP 76.97)
- Existing length of roadway segment for Rockdale County: 4.99 miles  
 Beginning to End mile logs for Rockdale County: 0.00 to 4.99  
 (State Mile Point MP 76.97 to MP 81.96)

**Proposed Design Features:**

- Proposed typical section(s): The number of lanes and lane width will remain the same. Cross slopes will be improved from 3/16 in./ft. to 1/4 in./ft. and outside shoulders will be 12 ft. paved to serve as a future lane. Inside shoulders will be reconstructed to full depth with no change to existing width. The existing outside shoulders will be reconstructed to full depth 12 ft. wide to facilitate staging and future HOV implementation. The pavement on the mainline and shoulders of the interchanges will be resurfaced up to the gore points.
- Proposed Design Speed Mainline: 70 mph
- Proposed Maximum grade Mainline: 4% Maximum grade allowable: 4 %.
- Proposed Maximum grade Side Street N/A Maximum grade allowable 6 %.
- Proposed Maximum grade driveway N/A
- Proposed Minimum radius for curve 4775 ft.
- Minimum radius allowable 1810 ft.
- Proposed Maximum super-elevation rate for curve: 8.0%
- Right of way: All work to be done within existing rights-of-way.
- Structures:
  - Bridges - The bridge on West Avenue/Klondike Rd, Bridge ID # 247-0019-A, will be jacked due to clearance requirements.
  - Major intersections and interchanges. No changes are proposed to the interchanges in the project area.
- Traffic control during construction: Traffic will be maintained through staged construction. Temporary lane closures will be required. Restricted work hours will be determined based on hourly counts.

• Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	()	()	(x)
ROADWAY WIDTH:	()	()	(x)
SHOULDER WIDTH:	()	(x)	()
VERTICAL GRADES:	()	()	(x)
CROSS SLOPES:	()	()	(x)
STOPPING SIGHT DISTANCE:	()	()	(x)

- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
SUPERELEVATION RATES:	( )	( )	(x)
HORIZONTAL CLEARANCE:	( )	( )	(x)
SPEED DESIGN:	( )	( )	(x)
VERTICAL CLEARANCE:	( )	( )	(x)
BRIDGE WIDTH:	( )	( )	(x)
BRIDGE STRUCTURAL CAPACITY:	( )	( )	(x)

AASHTO guidelines state a usable outside shoulder width of 10 feet should be provided; where truck DDHV exceeds 250 vehicles, a usable outside shoulder width of 12 feet should be provided. On freeways of six or more lanes, the median shoulder width should be 10 feet; where truck DDHV exceeds 250 vehicles, a usable shoulder width of 12 feet should be provided. The limits of the design exception request for substandard median shoulder width are: DeKalb County mile log 16.38 to 17.59 (county line), and Rockdale County mile log 0.00 to 4.99. The limits for the design exception request for substandard outside shoulder width are: Rockdale County mile log 3.34 to 3.57. The requests include both eastbound and westbound directions of travel.

A corridor improvement project along I-20 [MSL-0003-00(166), P.I. No. 0003166-], which would add HOV lanes in each direction, is currently programmed for RW in FY-12 and CST in FY-16. Construction of the project would require additional rights of way, reconstruction of existing interstate ramps, and replacement of the West Avenue Overpass Bridge. Widening of the inside and outside usable shoulders would be more appropriate under this project.

- Design Variances: None Anticipated
- Environmental concerns: A Categorical Exclusion was approved on Nov. 21, 2006.
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (x), No ( )
  - Categorical Exclusion (x)
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( )
  - Environmental Impact Statement (EIS) ( )
- Utility involvements: unknown at this time.

**Project responsibilities:**

- Design, GDOT
- Right of Way Acquisition, N/A
- Relocation of Utilities, N/A
- Letting to contract, GDOT
- Supervision of construction, GDOT
- Providing material pits, contractor
- Providing detours. N/A

**Coordination**

- Initial Concept Meeting was not held.
- Concept meeting date and brief summary. A concept meeting was not held.
- P. A. R. meetings, dates and results. N/A

- Other projects in the area.

Project ID	Project	Description	Let Date
M003234	CSNHS-M003-00(234)	Resurface and Maintain I-20 fr CR5154 to SR124/Turner Hill Rd	LR
714085	NH-20-2(179)	I-20 ATMS Comm/Surveillance fm I-285 to SR138/SR20	LR
0003166	MSL-0003-00(166)	I-20 fm Evans Mill Rd to Salem Rd HOV lanes	ON HOLD
0006888	CSSTP-0006-00(888)	CR 627/Sigman Rd fr Turner Hill to Rockdale Co.	1/2009
0005955	CSSTP-0005-00(955)	SR 12/Covington Hwy fr SR 124 to CR 67/Lake Capri Rd	8/2011
752210	STP-9335(3)	Sigman Rd fr Old Covington north to SR 20/138 (east leg)	LR
752215	STP-9335(5)	CR 435/Sigman Rd grade separation @CSX Railroad east of I-20	ON HOLD
731048	NH-035-1(33)	I-20 @ SR 138/SR 20 Interchange reconstruction & widening	LR
0004647	MSL-0004-00(647)	CR 444/Iris Dr @ McDaniel Mill Rd - GRTA	5/2007

- Other coordination to date. There has been coordination with the Office of Traffic Safety & Design for the inclusion of conduit in this project as part of their project, PI No. 714085; however, it was determined that it was not feasible to add the conduit into this project because the preferred placement of ITS devices using an HOV barrier separated section is to place the conduit in the shoulder/barrier of the HOV and not the median barrier. The ITS project will be coordinated with the future HOV project.

- Railroads: None
- **VE STUDY REQUIRED:**

**Scheduling – Responsible Parties' Estimate**

- Time to complete the environmental process: 4 months
- Time to complete preliminary construction plans: 4 months
- Time to complete right of way plans: N/A
- Time to complete the Section 404 Permit: 4 months
- Time to complete final construction plans: 1 month
- Time to complete to purchase right of way: N/A
- List other major items that will affect the project schedule: N/A
- Estimated time to complete construction: 24 months

**Other alternates considered:** This project will maintain the safe condition of the roadway. A No-build alternative will not satisfy the project scope. No other alternatives are considered.

**Comments:** A Value Engineering Study was conducted on January 8-11, 2007. The Office of Urban Design has addressed the Value Engineering recommendations.

**Attachments:**

1. Cost Estimates
2. Typical Sections
3. Crash Summary
4. Request for Design Exception

**Estimate Report for file "CSNHS-M003-00(235)"**

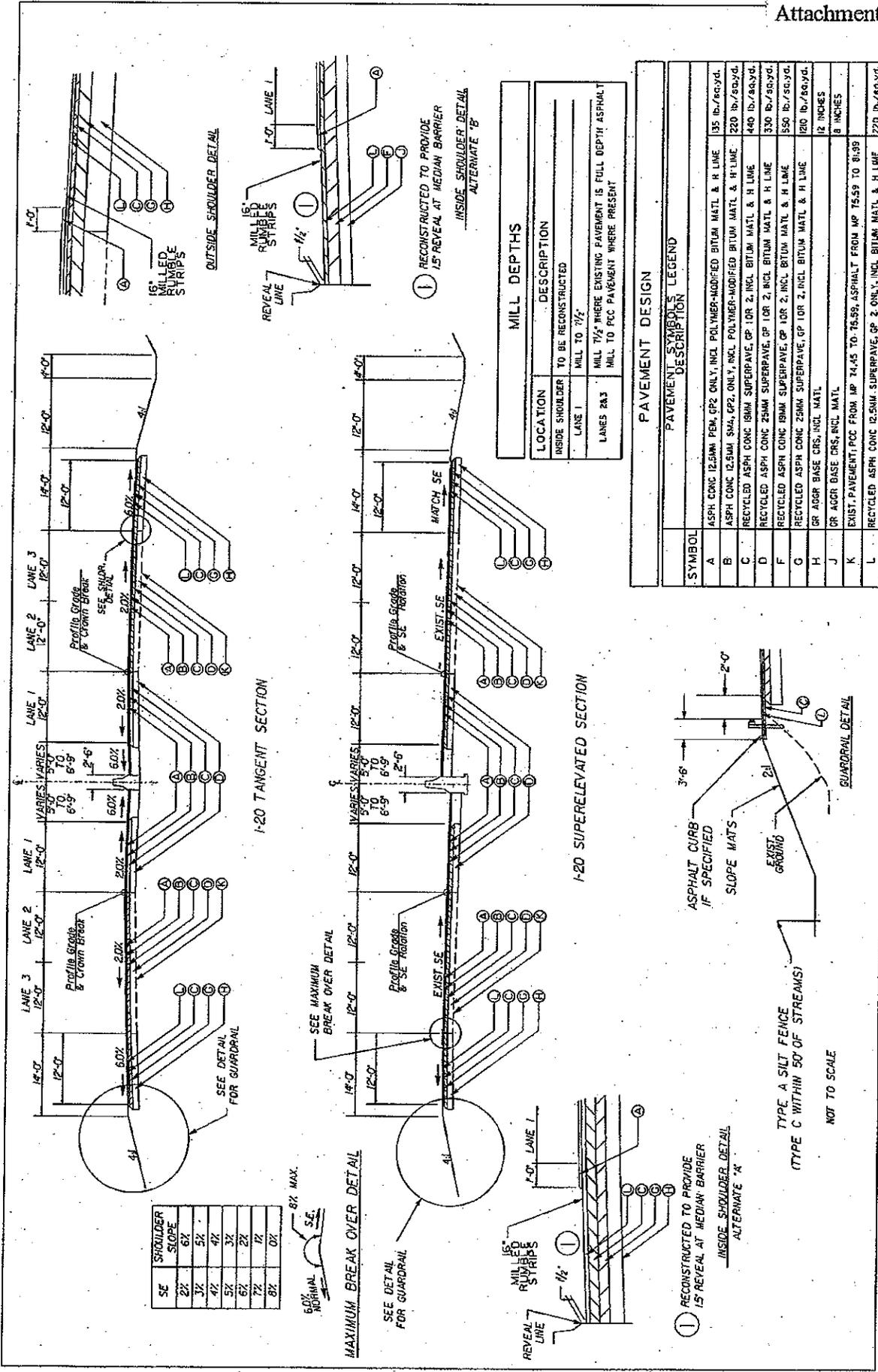
<b>Section ROADWAY</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	400000.00	TRAFFIC CONTROL - M003235	400000.00
153-1300	1	EA	75833.87	FIELD ENGINEERS OFFICE TP 3	75833.87
202-2100	1	LS	74000.00	CLEARING	74000.00
210-0100	1	LS	200000.00	GRADING COMPLETE - M003235	200000.00
310-1101	95500	TN	24.32	SR AGGR BASE CRS, INCL MATL	2322560.00
400-3604	53600	TN	78.08	ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	4185088.00
400-3624	22500	TN	75.00	ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	1687500.00
402-3121	137600	TN	75.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	10320000.00
402-3190	98500	TN	75.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	7387500.00
413-1000	124300	GL	2.00	BITUM TACK COAT	248600.00
429-1000	6550	EA	695.34	RUMBLE STRIPS	4554477.00
432-5010	318500	SY	5.09	MILL ASPH CONC PVMT, VARIABLE DEPTH	1621165.00
518-1000	1	LS	182454.00	RAISE EXISTING BRIDGE, STA -	182454.00
610-0716	30340	LF	37.97	REM CONC MEDIAN BARRIER	1152009.80
611-8040	86	EA	1304.72	ADJUST DROP INLET TO GRADE	112205.92
621-3007	630	LF	216.79	CONCRETE BARRIER, TYPE 7M	136577.70
621-3020	19423	LF	125.00	CONCRETE BARRIER, TYPE 20	2427875.00
621-3021	4486	LF	153.50	CONCRETE BARRIER, TYPE 21	688601.00
621-3022	5800	LF	285.21	CONCRETE BARRIER, TYPE 22	1654218.00
632-0003	2	EA	12224.86	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	24449.72
<b>Section Sub Total:</b>					<b>\$44,913,384.01</b>

<b>Section EROSION CONTROL</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	37	AC	571.95	TEMPORARY GRASSING	21162.15
163-0240	333	TN	291.39	MULCH	97032.87
163-0300	2	EA	2388.13	CONSTRUCTION EXIT	4776.26
165-0030	39600	LF	2.05	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	81180.00
167-1000	2	EA	1512.16	WATER QUALITY MONITORING AND SAMPLING	3024.32
167-1500	24	MO	977.26	WATER QUALITY INSPECTIONS	23454.24
171-0030	79200	LF	4.09	TEMPORARY SILT FENCE, TYPE C	323928.00
700-6910	74	AC	1021.10	PERMANENT GRASSING	75591.40
700-7000	222	TN	68.87	AGRICULTURAL LIME	15289.14
700-7010	185	GL	22.38	LIQUID LIME	4140.30
700-8000	67	TN	320.49	FERTILIZER MIXED GRADE	21472.83
700-8100	3700	LB	3.08	FERTILIZER NITROGEN CONTENT	11396.00
<b>Section Sub Total:</b>					<b>\$682,477.55</b>

<b>Section SIGNING &amp; MARKING</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
610-6510	7	EA	718.37	REM HWY SIGN, OVHD	5028.59
610-6515	20	EA	71.58	REM HIGHWAY SIGN, STD	1431.60
610-9310	0	LS	4584.22	REM STR SUPPORT, TP -	0.00
653-1501	65480	LF	0.86	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	56312.80
653-1502	65480	LF	0.84	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	55003.20
653-1810	5590	LF	0.95	THERMOPLASTIC SOLID TRAF STRIPE, 10 IN, WHITE	5310.50
653-3501	131000	GLF	0.53	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	69430.00
654-1003	2150	EA	4.43	RAISED PVMT MARKERS TP 3	9524.50
<b>Section Sub Total:</b>					<b>\$202,041.19</b>

**Total Estimated Cost: \$45,797,902.75**

<b>Subtotal Construction Cost</b>	<b>\$45,797,902.75</b>
E&C Rate 10.0 %	\$4,579,790.28
Inflation Rate 0.0 % @ 0.0 Years	\$0.00
<hr/>	
<b>Total Construction Cost</b>	<b>\$50,377,693.02</b>
Right-Of-Way	\$0.00
Reimb. Utilities	\$0.00
<hr/>	
<b>Grand Total Project Cost</b>	<b>\$50,377,693.02</b>



**CRASH SUMMARY**

The following is a summary of Crash data available for:

I-20 from SR 124/Turner Hill Road to SR 138/SR 20.

<i>Year</i>	<i>Accidents</i>	<i>Accident Rate</i>	<i>Statewide Accident Rate</i>	<i>Injuries</i>	<i>Injury Rate</i>	<i>Statewide Injury Rate</i>	<i>Fatalities</i>	<i>Fatality Rate</i>	<i>Statewide Fatality Rate</i>
2002	310	146	204	112	53	59	0	0.00	0.73
2003	370	170	200	121	56	57	1	0.46	0.79
2004	430	160	190	175	65	58	1	0.37	0.86

NOTE: Rates are per 100 Million Vehicle Miles traveled.

The rates in the project area are below the Statewide averages. Data for the 2005 & 2006 years are not available at this time.

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

**FILE** CSNHS-M003-00(235), Dekalb/Rockdale Counties  
I-20 Maintenance & Resurfacing fm SR 124/Turner Hill  
Road to SR 138/SR 20  
P.I. No. M003235

**OFFICE** Urban Design

**DATE** March 27, 2007

**FROM** James B. Buchan, P.E., State Urban Design Engineer

**TO** Brian Summers, P.E., Project Review Engineer

**SUBJECT** **Request for Design Exception**

Approval of a Design Exception is requested for this project.

### PROJECT DESCRIPTION

The proposed project would deep mill and inlay existing asphaltic concrete pavement and remove hazardous vegetation within the clear zone along I-20 in DeKalb and Rockdale Counties. The project begins at just east of the Turner Hill Road/SR 124 (DeKalb County mile log 16.38) and ends just west of the SR 20/138 Interchange (Rockdale County mile log 4.99), and approximate length of 6.2 miles. The proposed typical section consists of three, 12-foot travel lanes in each direction, inside shoulders varying in width from five to 16 feet and 12-foot outside shoulders. The proposed design speed is 70 mph.

### FEATURES REQUIRING A DESIGN EXCEPTION

The design exception is for shoulder width. AASHTO guidelines state a usable outside shoulder width of 10 feet should be provided; where truck DDHV exceeds 250 vehicles, a usable outside shoulder width of 12 feet should be provided. On freeways of six or more lanes, the median shoulder width should be 10 feet; where truck DDHV exceeds 250 vehicles, a usable shoulder width of 12 feet should be provided. The limits of the design exception request for substandard median shoulder width are: DeKalb County mile log 16.38 to 17.59 (county line), and Rockdale County mile log 0.00 to 4.99. The limits for the design exception request for substandard outside shoulder width are: Rockdale County mile log 3.34 to 3.57. The requests include both eastbound and westbound directions of travel.

**TRAFFIC VOLUME DATA**

See attached Traffic Diagram Sheets. In summary, the current ADT for I-20 is 124,800 vpd; DHV is 11,115 vehicles. This volume is projected to increase to 200,600 by 2027; DHV will increase to 17,870. The 24-hour truck percentage is 13, and the directional distribution is 50%.

**VEHICLE CRASH DATA**

See attached Crash Data Sheet. In summary, the accident, injury, and fatality rates for this section of I-20 are below the statewide accident, injury, and fatality rates.

**JUSTIFICATION FOR DESIGN EXCEPTION**

Widening of the median and outside usable shoulders within the limits of the proposed maintenance project would require additional rights of way, reconstruction of the ramps at the Sigman Road Interchange, and reconstruction of the interchange ramps (including overpass bridge replacement) at the West Avenue Interchange and the SR 138 Interchange.

A corridor improvement project along I-20 [MSL-0003-00(166), P.I. No. 0003166-], which would add HOV lanes in each direction, is currently programmed for RW in FY-12 and CST in FY-16. Construction of the project would require additional rights of way, reconstruction of existing interstate ramps, and replacement of the West Avenue Overpass Bridge. Widening of the inside and outside usable shoulders would be more appropriate under this project.

**COST ESTIMATES**

See attached Cost Estimates Sheets. In summary, a construction cost estimate for the proposed maintenance project is \$50,377,693.02; there are no associated right of way costs. A construction cost estimate for a project not requiring a design exception is \$75,458,101.96; associated right of way costs are estimated to be \$22,000,000.00.

**PROPOSED MITIGATION**

There is no proposed mitigation to lessen the impact of not meeting current design criteria.

**RECOMMENDATION**

The Office of Urban Design recommends this design exception request be approved.

Recommend: \_\_\_\_\_  
Chief Engineer

\_\_\_\_\_  
Date

Approved: \_\_\_\_\_  
FHWA Division Administrator

\_\_\_\_\_  
Date

JBB: JLS

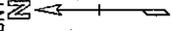
Attachments

1. Traffic Volumes
2. Traffic Accident Summary
3. Cost Estimates



GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF ENVIRONMENT/LOCATION

DEKALB/ROCKDALE  
COUNTIES



ROCKDALE COUNTY  
DEKALB COUNTY

DEKALB COUNTY  
ROCKDALE COUNTY

EVANS MILL ROAD  
CR 6305

TURNER HILL ROAD  
SR 124

CR 6305

SR 124

SIGMAN ROAD  
CR 435

WEST AVE  
CR 437

SR 20  
MCDONOUGH HWY.

SR 20  
STOCKBRIDGE HWY.

I-20/SR 402  
(4800)  
7200

(4560)  
5840

I-20/SR 402  
(6840)  
4560

(4445)  
6670

I-20/SR 402  
(6670)  
4445

(4445)  
6670

(4070)  
6110

I-20/SR 402  
(6110)  
4070

(4020)  
6030

I-20/SR 402  
(4625)  
3085

(3085)  
4625

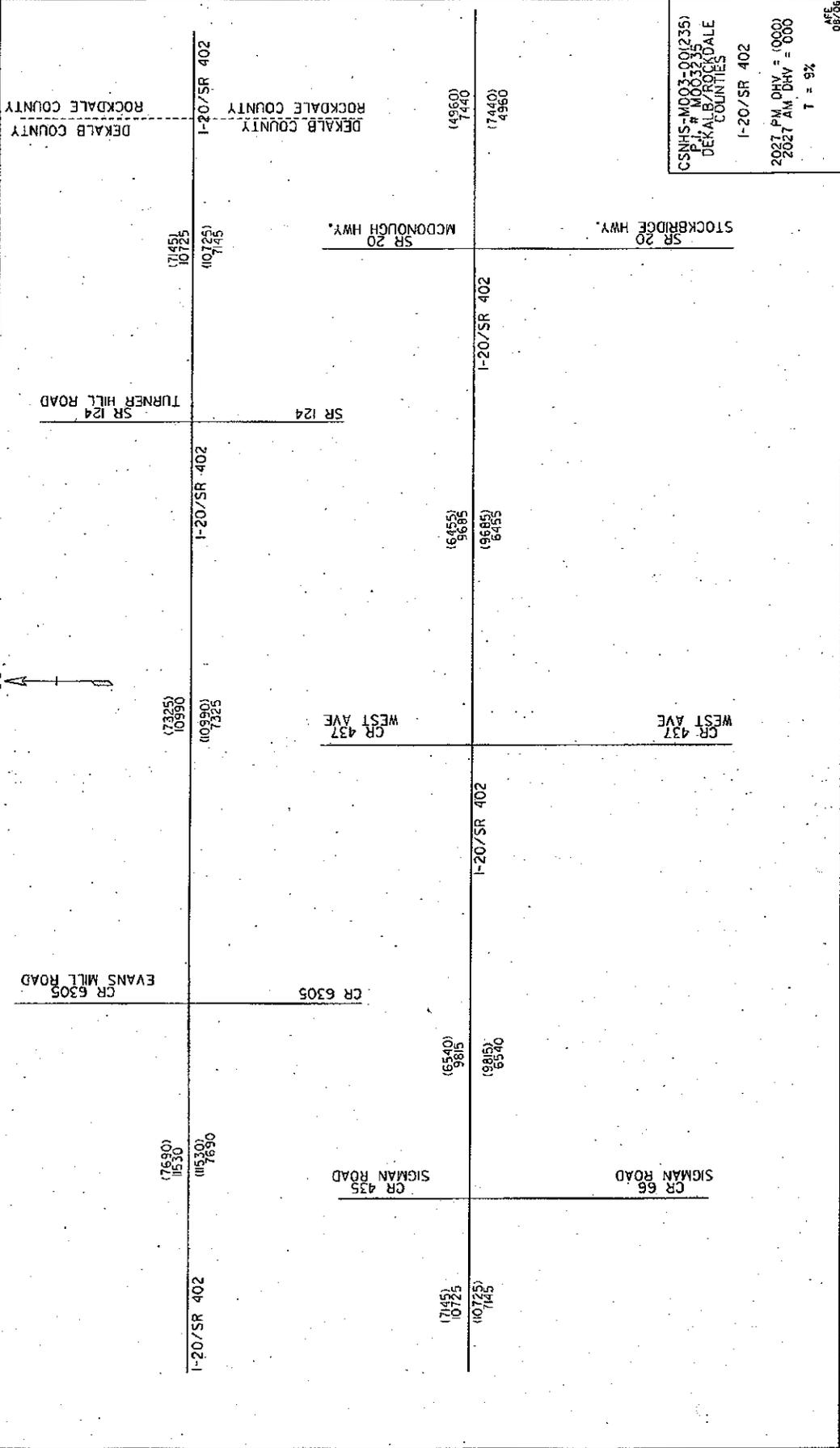
SIGMAN ROAD  
CR 66

WEST AVE  
CR 437

CSNHS-M003-QQ(235)  
PLOT # M003-15  
DEKALB/ROCKDALE  
COUNTIES  
I-20/SR 402  
2007 PM.DHV = 1000  
2007 AM.DHV = 000  
T = 9%  
17E  
08/26/03

DEKALB/ROCKDALE  
COUNTIES

GEORGIA DEPARTMENT OF TRANSPORTATION  
OFFICE OF ENVIRONMENT/LOCATION



CSNHS-NO03-00(235)  
 PLAN # NO03-00(235)  
 DEKALB/ROCKDALE  
 COUNTIES  
 I-20/SR 402  
 2027 PM, DRV = 000  
 2027 AM, DRV = 000  
 T = 9%  
 04/15/06

**CRASH SUMMARY**

The following is a summary of Crash data available for:

I-20 from SR 124/Turner Hill Road to SR 138/SR 20.

<i>Year</i>	<i>Accidents</i>	<i>Accident Rate</i>	<i>Statewide Accident Rate</i>	<i>Injuries</i>	<i>Injury Rate</i>	<i>Statewide Injury Rate</i>	<i>Fatalities</i>	<i>Fatality Rate</i>	<i>Statewide Fatality Rate</i>
2002	310	146	204	112	53	59	0	0.00	0.73
2003	370	170	200	121	56	57	1	0.46	0.79
2004	430	160	190	175	65	58	1	0.37	0.86

NOTE: Rates are per 100 Million Vehicle Miles traveled.

The rates in the project area are below the Statewide averages. Data for the 2005 & 2006 years are not available at this time.

**Estimate Report for file "CSNHS-M003-00(235)" Attachment #3**

<b>Section ROADWAY</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	4000000.00	TRAFFIC CONTROL - M003235	4000000.00
153-1300	1	EA	75833.87	FIELD ENGINEERS OFFICE TP 3	75833.87
202-2100	1	LS	74000.00	CLEARING	74000.00
210-0100	1	LS	2000000.00	GRADING COMPLETE - M003235	2000000.00
310-1101	95500	TN	24.32	GR AGGR BASE CRS, INCL MATL	2322560.00
400-3604	53600	TN	78.08	ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	4185088.00
400-3624	22500	TN	75.00	ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	1687500.00
402-3121	137600	TN	75.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	10320000.00
402-3190	98500	TN	75.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	7387500.00
413-1000	124300	GL	2.00	BITUM TACK COAT	248600.00
429-1000	6550	EA	695.34	RUMBLE STRIPS	4554477.00
432-5010	318500	SY	5.09	MILL ASPH CONC PVMT, VARIABLE DEPTH	1621165.00
518-1000	1	LS	182454.00	RAISE EXISTING BRIDGE, STA	182454.00
610-0715	30340	LF	37.97	REM CONC MEDIAN BARRIER	1152009.80
611-8040	86	EA	1304.72	ADJUST DROP INLET TO GRADE	112205.92
621-3007	630	LF	216.79	CONCRETE BARRIER, TYPE 7M	136577.70
621-3020	19423	LF	128.00	CONCRETE BARRIER, TYPE 20	2486144.00
621-3021	4486	LF	153.50	CONCRETE BARRIER, TYPE 21	688601.00
621-3022	5800	LF	285.21	CONCRETE BARRIER, TYPE 22	1654218.00
632-0003	2	EA	12224.66	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	24449.72
<b>Section Sub Total:</b>					<b>\$44,913,384.01</b>

<b>Section EROSION CONTROL</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	37	AC	571.95	TEMPORARY GRASSING	21162.15
163-0240	333	TN	291.39	MULCH	97032.87
163-0300	2	EA	2388.13	CONSTRUCTION EXIT	4776.26
165-0030	39600	LF	2.05	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	81180.00
167-1000	2	EA	1542.18	WATER QUALITY MONITORING AND SAMPLING	3084.36
167-1500	24	MO	977.26	WATER QUALITY INSPECTIONS	23454.24
171-0030	79200	LF	4.09	TEMPORARY SILT FENCE, TYPE C	323928.00
700-6910	74	AC	1021.10	PERMANENT GRASSING	75561.40
700-7000	222	TN	68.87	AGRICULTURAL LIME	15289.14
700-7010	185	GL	22.38	LIQUID LIME	4140.30
700-8000	67	TN	320.39	FERTILIZER MIXED GRADE	21472.83
700-8100	3700	LB	3.08	FERTILIZER NITROGEN CONTENT	11396.00
<b>Section Sub Total:</b>					<b>\$682,477.55</b>

<b>Section SIGNING &amp; MARKING</b>					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
610-6510	7	EA	718.37	REM HWY SIGN, OVHD	5028.59
610-6515	20	EA	71.58	REM HIGHWAY SIGN, STD	1431.60
610-9310	0	LS	4584.22	REM STR SUPPORT, TP -	0.00
653-1501	65480	LF	0.86	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	56312.80
653-1502	65480	LF	0.84	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	55003.20
653-1810	5590	LF	0.95	THERMOPLASTIC SOLID TRAF STRIPE, 10 IN, WHITE	5310.50
653-3501	131000	GLF	0.53	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	69430.00
654-1003	2150	EA	4.43	RAISED PVMT MARKERS TP 3	9524.50
<b>Section Sub Total:</b>					<b>\$202,041.19</b>

**Total Estimated Cost: \$45,797,902.75**

<b>Subtotal Construction Cost</b>	<b>\$45,797,902.75</b>
E&C Rate 10.0 %	\$4,579,790.28
Inflation Rate 0.0 % @ 0.0 Years	\$0.00
<hr/>	
<b>Total Construction Cost</b>	<b>\$50,377,693.02</b>
Right Of Way	\$0.00
Reimb. Utilities	\$0.00
<hr/>	
<b>Grand Total Project Cost</b>	<b>\$50,377,693.02</b>

### Estimate Report for file "CSNHS-M003-00(235)-A"

Section ROADWAY					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	4000000.00	TRAFFIC CONTROL - M003235	4000000.00
153-1300	1	EA	75833.87	FIELD ENGINEERS OFFICE TP 3	75833.87
202-2100	1	LS	74000.00	CLEARING	74000.00
210-0100	1	LS	3620000.00	GRADING COMPLETE - M003235	3620000.00
310-1101	233035	TN	24.32	GR AGGR BASE CRS, INCL MATL	5667411.20
400-3604	73281	TN	78.08	ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	5721780.48
400-3624	25306	TN	75.00	ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	1897950.00
402-3121	250906	TN	75.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	18817950.00
402-3190	143000	TN	75.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	10725000.00
413-1000	189441	GL	2.00	BITUM TACK COAT	378882.00
429-1000	6550	EA	695.34	RUMBLE STRIPS	4554477.00
432-5010	318500	SY	5.09	MILL ASPH CONC PVMT, VARIABLE DEPTH	1621165.00
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611-8040	86	EA	1304.72	ADJUST DROP INLET TO GRADE	112205.92
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621-3021	4486	LF	153.50	CONCRETE BARRIER, TYPE 21	688601.00
621-3022	5800	LF	285.21	CONCRETE BARRIER, TYPE 22	1654218.00
632-0003	2	EA	12224.86	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	24449.72
<b>Section Sub Total:</b>					<b>\$63,408,655.69</b>

Section EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	57	AC	571.95	TEMPORARY GRASSING	21162.15
163-0240	333	TN	291.39	MULCH	97032.87
163-0300	2	EA	2388.13	CONSTRUCTION EXIT	4776.26
165-0030	39600	LF	2.05	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	81180.00
167-1000	2	EA	1542.18	WATER QUALITY MONITORING AND SAMPLING	3084.36
167-1500	24	MO	977.26	WATER QUALITY INSPECTIONS	23454.24
171-0030	79200	LF	4.09	TEMPORARY SILT FENCE, TYPE C	323928.00
700-6910	74	AC	1021.10	PERMANENT GRASSING	75561.40
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700-7010	185	GL	22.38	LIQUID LIME	4140.30
700-8000	67	TN	320.49	FERTILIZER MIXED GRADE	21472.83
700-8100	3700	LB	3.08	FERTILIZER NITROGEN CONTENT	11396.00
<b>Section Sub Total:</b>					<b>\$682,477.55</b>

Section SIGNING & MARKING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
610-6510	7	EA	718.37	REM HWY SIGN, OVHD	5028.59
610-6515	20	EA	71.58	REM HIGHWAY SIGN, STD	1431.60
653-1501	71230	LF	0.86	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	61257.80
653-1502	71230	LF	0.84	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	59833.20
653-1810	7440	LF	0.95	THERMOPLASTIC SOLID TRAF STRIPE, 10 IN, WHITE	7068.00
653-3501	131000	GLF	0.53	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	69430.00
654-1003	2150	EA	4.43	RAISED PVMT MARKERS TP 3	9524.50
<b>Section Sub Total:</b>					<b>\$213,573.69</b>

Section BRIDGES					
Item Number	Quantity	Units	Unit Price	Item Description	Cost

433-1000	522	SY	136.37	REINF CONC APPROACH SLAB	71135.14
439-0026	31138	SY	66.37	PLAIN PC CONC PYMT, CL 3 CONC, 12 INCH	2066629.06
543-1000	21021	SF	100.00	JHK-WEST AVE RAMPS	2102100.00
544-1000	1	LS	53653.38	BRIDGE COMPLETE	53653.38
<b>Section Sub Total:</b>					<b>\$4,293,567.58</b>

**Total Estimated Cost: \$68,598,274.51**

**Subtotal Construction Cost \$68,598,274.51**

E&C Rate 10.0 % \$6,859,827.45

Inflation Rate 0.0 % @ 0.0 Years \$0.00

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**Total Construction Cost \$75,458,101.96**

Right Of Way \$0.00

Reimb. Utilities \$0.00

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**Grand Total Project Cost \$75,458,101.96**