

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0005130, DeKalb County **OFFICE** Preconstruction
MSL-0005-00(130)
I-285 Noise Barrier Wall **DATE** September 1, 2006

FROM *GRS* Genetha Pace-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
Joe Palladi (file copy)
Paul Liles
Babs Abubakari
Bryant Poole
BOARD MEMBER
FHWA

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P. I. No. 0005130, DeKalb County **OFFICE** Preconstruction
 MSL-0005-00(130)
 I-285 Noise Barrier Wall **DATE** August 15, 2006

FROM *Cyber Kunkel*
 Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

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

SUBJECT PROJECT CONCEPT REPORT

This project consists of the installation of a sound barrier wall on I-285 from Chamblee Tucker Road to Henderson Mill Road. The proposed wall is 2,640± long and will connect to the existing sound barrier wall built under project NH-285-1(391), P.I. No. 714030-. The purpose of this project is to provide a reduction in noise along this portion of I-285. The noise level will continue to deteriorate as traffic grows if the noise barriers are not implemented. Current year (2002) traffic along this portion of I-285 is 200,000 VPD with a projected design year (2022) volume of 330,000 VPD.

Environmental concerns include requiring a Categorical Exclusion be prepared; a public information open house was held on 6-1-06; 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)	\$1,121,000	\$522,000	H020	2007
Right-of-Way & Utilities*	-0-	-0-		

*Notification letter sent to DeKalb County 5-26-06.

This project is a congressional mandate under TEA 21. I recommend this project concept be approved.

MBP:JDQ/cj

Attachment

CONCUR

Buddy Gratton
 Buddy Gratton, P.E., Director of Preconstruction

APPROVE

Robert M. Callan
 Robert M. Callan, Administrator, FHWA

APPROVE

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

Recommended for Approval

Richard Wayne Fedora
 DATE 8/24/2006

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: MSL-0005-00(130) DeKalb
P.I. No. 0005130
I-285 Noise Barrier Wall

OFFICE: Engineering Services

DATE: July 31, 2006

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

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

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted July 31, 2006, and have no comments.

The costs for this project are:

Construction	\$1,019,000
Inflation	\$0.00
E & C	\$101,900
Reimbursable Utilities	\$0.00
Right of Way	\$0.00

REW

c: Ben Buchan, Attn.: Neal O'Brien

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

OFFICE OF URBAN DESIGN

PROJECT CONCEPT REPORT

I-285 Noise Barrier From Chamblee Tucker

To

Henderson Mill

MSL0005-00(130), Dekalb County

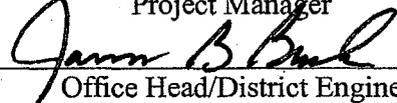
P.I. Number 0005130

Recommendation for approval:

DATE 7-27-06

DATE 7-31-2006



Project Manager


Office Head/District 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

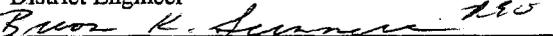
DATE _____

State Traffic Safety & Design Engineer

DATE _____

District Engineer

DATE 7/31/06



Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

SCORING RESULTS AS PER MOG 2440-2

Project Number: MSL-0005-00(130)		County: DeKalb		PI No.: 0005130	
Report Date: July 31, 2006		Concept By: DOT Office: Urban Design			
<input checked="" type="checkbox"/> Concept Stage		Consultant: N/A			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" 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 type="checkbox"/> Widening & Reconstruction <input checked="" type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

RECEIVED
AUG 01 2006

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF URBAN DESIGN
PROJECT CONCEPT REPORT**

I-285 Noise Barrier From Chamblee Tucker

To

Henderson Mill

MSL0005-00(130), Dekalb County

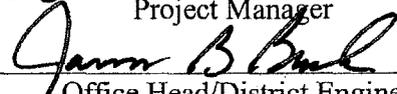
P.I. Number 0005130

Recommendation for approval:

DATE 7-27-06


Project Manager

DATE 7-31-2006


Office Head/District 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 8/1/06


State Transportation Planning Administrator

DATE _____

State Transportation Financial Management Administrator

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety & Design Engineer

DATE _____

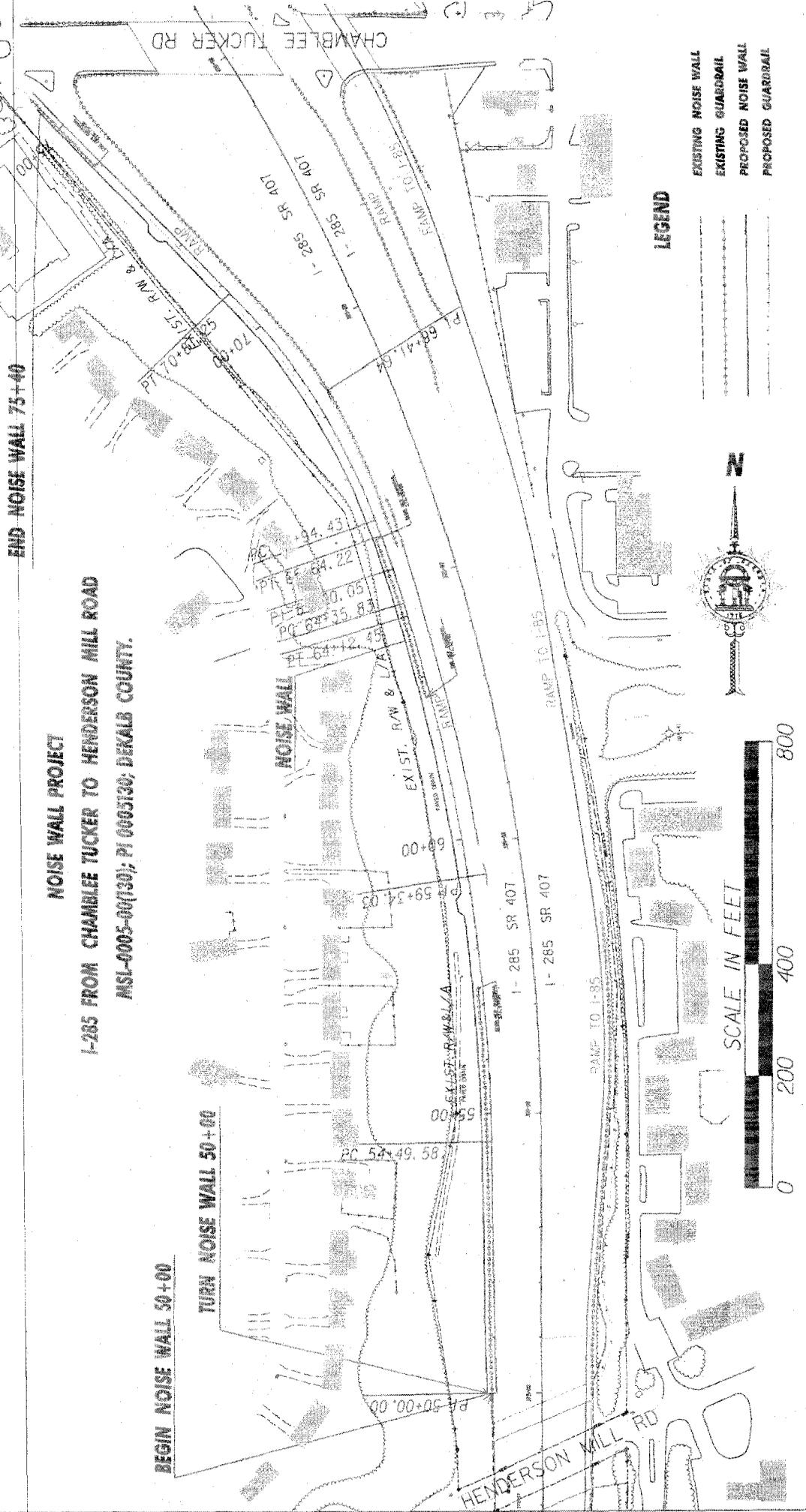
District Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer



END NOISE WALL 75+40

NOISE WALL PROJECT
I-285 FROM CHAMBLEE TUCKER TO HENDERSON MILL ROAD
NSL-005-00(130); PI 0005130; DEKALB COUNTY.

BEGIN NOISE WALL 50+00

TURN NOISE WALL 50+00

NOISE WALL

HENDERSON MILL RD

CHAMBLEE TUCKER RD

LEGEND

- EXISTING NOISE WALL
- EXISTING GUARDRAIL
- PROPOSED NOISE WALL
- PROPOSED GUARDRAIL



NOTICE OF LOCATION AND DESIGN APPROVAL

*MSL-0005-00 (130), Dekalb County
P. I. 0005130*

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 the this project.

The date of location approval is: *SEPTEMBER 1, 2006*

Project MSL-0005-00(130), in Dekalb County is a sound barrier wall project on Chamblee-Tucker ramp to Henderson Mill along Interstate 285. The proposed project is around 2640 feet in length and it will connect the existing sound barrier wall built under NH-285-1 (391) with P.I. 714030

The proposed construction is to complete the remaining sound barrier wall with added guardrail. This portion was not built under project NH-285-1 (139); P.I. 714030. We are retaining the existing one (1) 16' lane on ramp and 4-12' lanes on I-285.

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:

*Area Engineer's Name: Thomas C. Parker
E-mail Address: Thomas.Parker@dot.state.ga.us
Street Address: 805 George Luther Drive Decatur,
GA 30032
Telephone number: 404-299-4386*

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:

*Project Manager's Name: Ben Buchan
Office: Urban Design
E-mail Address: Ben.Buchan@dot.state.ga.us
Mailing Address: 2 Capitol Square Atlanta, GA 30334
Telephone number: 404-656-5442*

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.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF URBAN DESIGN
PROJECT CONCEPT REPORT**

I-285 Noise Barrier From Chamblee Tucker

To

Henderson Mill

MSL0005-00(130), Dekalb County

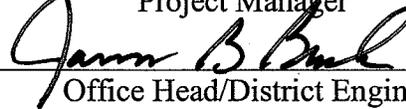
P.I. Number 0005130

Recommendation for approval:

DATE 7-27-06

DATE 7-31-2006



Project Manager


Office Head/District 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

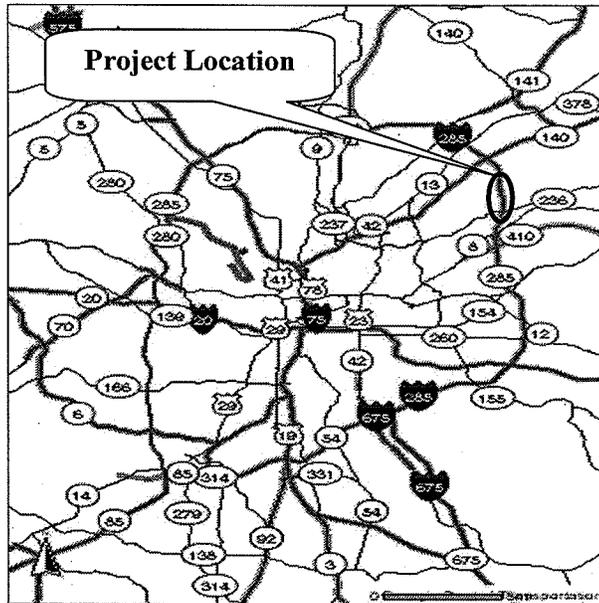
DATE _____

Project Review Engineer

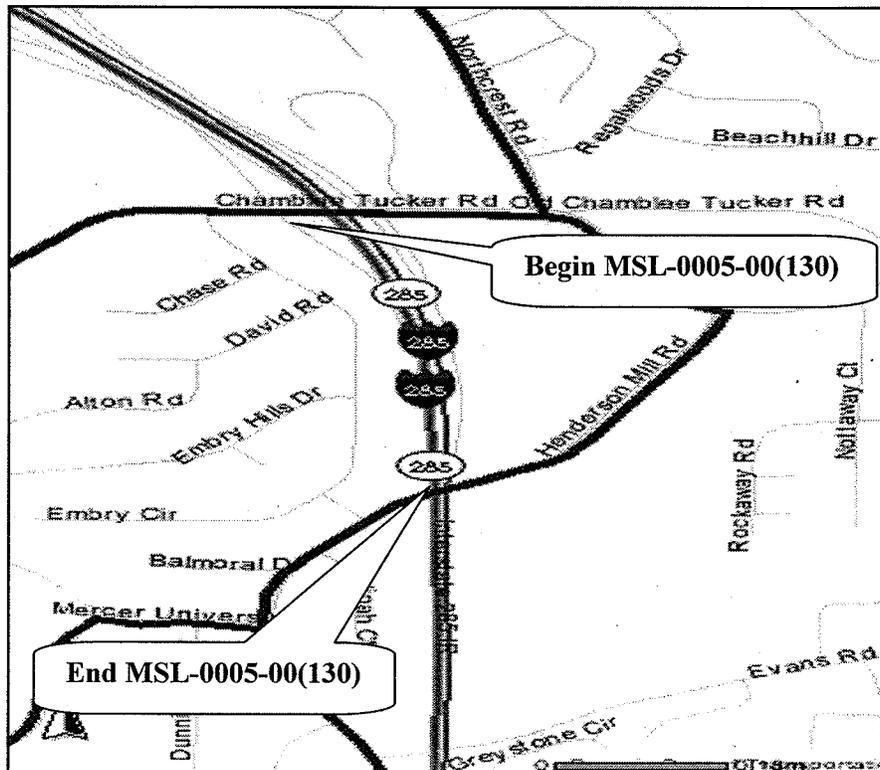
DATE _____

State Bridge & Structural Design Engineer

MSL-0005-00 (130), P.I. 0005130, DEKALB COUNTY I-285 NOISE BARRIER FM CHAMBLEE TUCKER TO HENDERSON MILL-WEST



LOCATION OF PROJECT IN DEKALB COUNTY



Project Concept Report page 2
Project Number: MSL-0005-00(130)
P. I. Number: 0005130
County: Dekalb

Need and Purpose: *The primary purpose of this project is to provide reduction in noise on I-285 from Chamblee Tucker Road to Henderson Mill Road. This condition will continue to deteriorate as traffic grows if noise barriers are not implemented. This project is a Congressional Mandate under TEA 21.*

Description of the proposed project: *Project MSL – 0005-00 (130) in Dekalb County is a sound barrier wall project on Chamblee – Tucker ramp to Henderson Mill along Interstate 285. The proposed project is around 0.5 mile in length and it will connect the existing sound barrier wall built under NH-285-1 (391); P.I. 714030*

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

PDP Classification: Major Minor

Federal Oversight: Full Oversight (X), Exempt(), State Funded(), or Other ()

Functional Classification: Urban Interstate Principal Arterial

U. S. Route Number(s): 285 **State Route Number(s):** 407

Traffic (AADT):

Current Year: (2002) 200,000 Design Year: (2022) 330,000

Existing design features:

- Typical Section: *One (1) 16ft lane on Ramp and 4-12ft lanes on I-285 with variable shoulder width and guardrail.*
- Posted speed 55 mph on I-285 Minimum radius for curve: 1065
- Maximum grade: 6% % (List mainline, cross roads, and driveways)
- Width of right of way: 300 ft.

Existing design features:

- Major structures: N/A
- Major interchanges along the project: Chamblee-Tucker at I-285
- Existing length of roadway segment and the beginning mile logs for each county segment. Project begins at mile-log 6.5 and extends south east approximately 0.5mile to mile-log 7.05. The entire project is in Dekalb County.

Proposed Design Features:

- Proposed typical section(s): *Retain One (1) 16ft lane on Ramp and 4-12ft lanes on I-285 with added guardrail and sound wall.*
- I-285 - Proposed Design Speed 55 mph on I-285
- I-285 - Proposed Maximum grade 6 % Maximum grade allowable 8 %.
- I-285 - Proposed Maximum degree of curve 8 % . Maximum degree allowable 12 % .

- Ramp - Proposed Design Speed 40 mph
- Ramp - Maximum grade 6 % Minimum radius allowable 565
- Ramp - Maximum degree of curve 4 % . Maximum degree allowable 20 % .

- Right of way No R/W required for this project
 - Width N/A
 - Easements: Temporary (), Permanent (), Utility (), Other ().
 - Type of access control: Full (X), Partial (), By Permit (), Other ().
 - Number of parcels: 0 Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

- Structures:
 - Bridges: N/A
 - Retaining walls: N/A
- Major intersections and interchanges. Chamblee-Tucker at I-285
- Traffic control during construction: *Construct under traffic*
- 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)
SUPERELEVATION RATES:	()	()	(x)
HORIZONTAL CLEARANCE:	()	()	(x)
SPEED DESIGN:	()	()	(x)

Estimate Report for file "New Name...I-285SoundWall"**Section Roadway Quantities**

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	Lump	LS	50000.00	Traffic Control - MSL-0005-00(130)	50000.00
165-0030	1250	LF	2.00	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	2500.00
171-0030	2500	LF	5.00	TEMPORARY SILT FENCE, TYPE C	12500.00
201-1500	Lump	LS	40000.00	Clearing & Grubbing - MSL-0005-00(130)	40000.00
573-2006	2580	LF	20.00	UNDDR PIPE INCL DRAINAGE AGGR, 6 IN	51600.00
622-1033	2500	LF	30.00	PRECAST CONCRETE MEDIAN BARRIER, METHOD 3	75000.00
624-0410	38000	SF	20.00	SOUND BARRIER	760000.00
641-1200	1370	LF	20.00	GUARDRAIL, TP W	27400.00
Section Sub Total:					\$1,019,000.00

Total Estimated Cost: \$1,019,000.00**Subtotal Construction Cost \$1,019,000.00**

E&C Rate 10.0 % \$101,900.00

Inflation Rate 0.0 % @ 0.0 Years \$0.00

Total Construction Cost \$1,120,900.00

Right Of Way \$0.00

ReImb. Utilities \$0.00

Grand Total Project Cost \$1,120,900.00

Project Concept Report page 5
Project Number: MSL-0005-00(130)
P. I. Number: 0005130
County: Dekalb

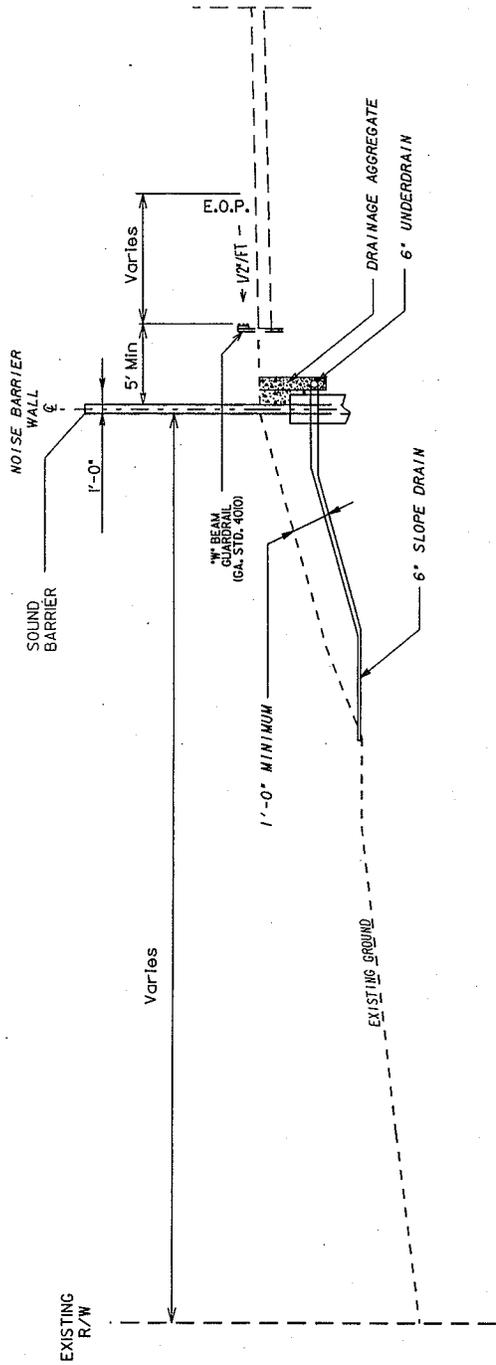
Other alternates considered: Alternate 1: Replace existing guardrail with concrete side barrier in front of sound wall.

Comments:

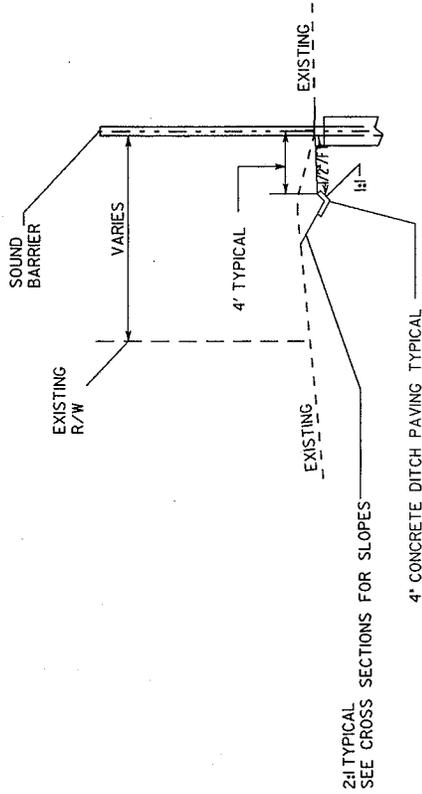
Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
2. Typical sections,
3. Location and Design Notice
4. PIOH Summary
5. Project Layout

STATE	PROJECT NUMBER	SHEET TOTAL
CA.	MSL-0005-00 (130)	NO. SHEETS
	REVISION DATES	



TYPICAL SECTION



NOTE: DITCH DEPTH IS 6' TYPICAL

DITCH DETAIL (STA. 60+00 TO 62+00)

(FOR LOCATIONS SEE PLANS)

