ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0008625, Fulton County
CSMSL-0008-00(625)
SR 400 Noise Barriers from Northland Drive to Glenridge Connector

OFFICE Preconstruction

DATE November 13, 2008

FROM for Genetha Rice-Singleton, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Brian Summers
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Angela Alexander
Paul Liles
Ben Buchan
Bryant Poole
Mike Lobdell
BOARD MEMBER

RECEIVED
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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE CSMSL-0008-00(625)/Fulton County
P. I. No. 0008625
S.R. 400 Noise Barriers from Northland Drive
To Glenridge Connector

OFFICE Urban Design

DATE October 21, 2008

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

TO: Genetha Rice Singleton, Assistant Director of Preconstruction

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 revised concept report proposes to revise the typical section in order to reduce the impacts of the noise wall design on existing streams and avoid utility conflicts. The cost estimate has been revised accordingly.

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

Date 10-31-2008

State Transportation Planning Administrator

JBB/LG
Attachments
cc: Brian Summers P.E., Project Review Engineer
Glenn Bowman P.E., State Environmental/Location engineer
Keith Golden P.E., State Traffic Safety and Design Engineer
Angela Alexander, State Transportation Planning Administrator
Angela Whitworth, State Financial Management Administrator
Bryant Poole, District 7 Engineer
Paul Liles P.E., State Bridge Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose: The need of the proposed improvement is due to the noise impact caused by the traffic to the surrounding residential environment. The primary purpose of this project is to provide a reduction in noise on the west side of S.R. 400 from Northland Drive to Glenridge Perimeter Connector. The impact will continue to grow if the noise barrier is not implemented.

S.R. 400 in Fulton County is functionally classified as an Urban Freeway and Expressway. The posted speed limit is 55 MPH. The current year 2007 traffic count is 113,090 AADT.

Project location: The proposed project is 0.23 mile long, and is 100% in Congressional District 5 in Fulton County.

Description of the approved concept: This project proposes to construct 0.23 miles of noise barrier walls on the west side of S.R. 400 to fill the gap between two existing noise barrier walls to the north and south of this proposed project. This project is located 100% in Congressional District 5 in Fulton County, Georgia. The limits of the project are from State Route BMP (beginning mile post) 5.86 to State Route EMP (ending mile post) 6.09.

PDP Classification: Major_____ Minor X

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

Functional Classification: Urban Freeway and Expressway

U. S. Route Number(s): N/A **State Route Number(s):** 400

Traffic (AADT) as shown in the approved concept:
Current Year (2007): 113,090

Proposed features to be revised:

The approved typical section maintains the existing 16-foot lane ramp with paved shoulder that varies from 5 to 10 feet and adds v-gutter and guardrail with the noise barrier 5 feet from the face of the guardrail.

Describe the revised feature(s) to be approved:

The proposed typical section will maintain the existing 16 feet lane ramp with paved shoulder that varies from 5 to 10 feet.

1.) Existing guardrail location will be maintained and noise barrier will be set at a minimum of 5 feet from face of guardrail.
2.) Where no guardrail exists, the noise barrier will be located outside of the clear zone.

Updated traffic data (AADT):

Current Year (2007): 116,430 Design/Year (2010): 121,300

Programmed/Schedule:

P.E.: 2008 R/W: 0 Construction: 2009

VE Study Required Yes ( ) No(X)

Revised cost estimates:

1. Construction cost including E&I and Contingencies $625,536.00
2. Right-of-Way $ 0
3. Utilities cost includes contingency $ 0

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

The proposed project concept matches the conforming plan's model description.

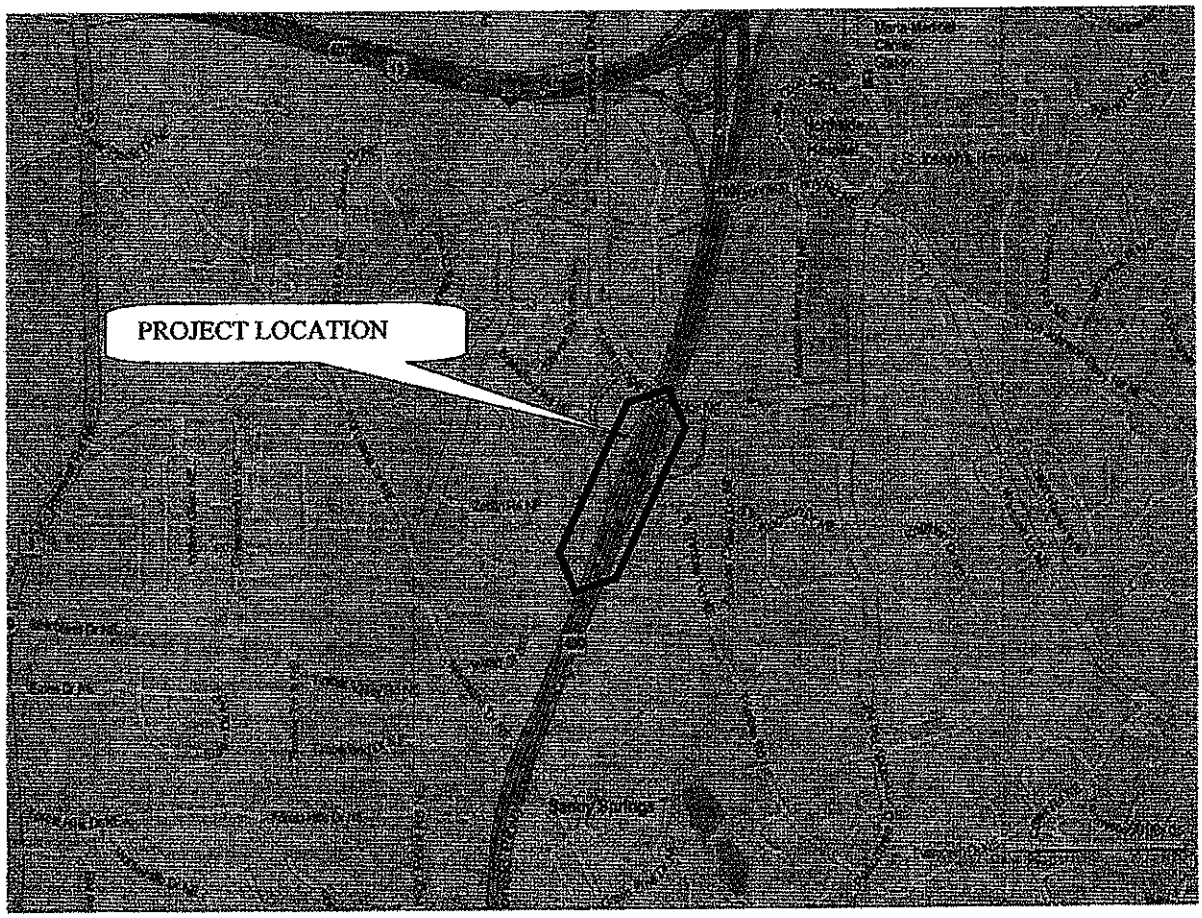
Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Location Map
2. Cost Estimate
3. Typical Sections
4. Construction Layout Plan Sheet.

Concur: _____ for Director
Director of Preconstruction

Approve: _____
Chief Engineer



LOCATION MAP
PROJECT No.: CSMSL-0008-00(625)
P.I. 0008625
FULTON COUNTY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE Project No. CSMSL-0008-00(625), FULTON
SR 400 Noise Barrier from Northland Dr. to
Glenridge Perimeter
P.I. No. 0008625

OFFICE Urban Design

DATE 10/17/2008

FROM James B. Buchan, State Urban Design Engineer

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

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Neal O'Brien

MNGT LET DATE

MNGT R/W DATE

PROGRAMMED COST (TPro W/OUT INFLATION)		**LAST ESTIMATE UPDATE**
CONSTRUCTION	$782,000.00	DATE 5/16/08
RIGHT OF WAY	$0	DATE
UTILITIES	$0	DATE

REVISED COST ESTIMATES

CONSTRUCTION*	$625,536.00
RIGHT OF WAY	$0
UTILITIES**	$0

* Costs contain 5% Engineering and Inspection and 3% Construction Contingencies.

** Costs contain 30% contingency.

REASON FOR COST INCREASE Project cost was reduced with redesign of typical section.

CONTINGENCY SUMMARY

Construction Cost Estimate:	$579,200.00	(Base Estimate)
Engineering and Inspection:	$28,960.00	(Base Estimate x 5 %)
Construction Contingency:	$17,376.00	(Base Estimate x 3 %)
Construction Total:	$625,536.00	(The Construction Contingency is based on the Project Improvement Type in TPro.)
Utility Cost Estimate:	$0	
Utility Contingency:	$0	30 %
Utility Total:	$0	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Costs

Attachments

c: Genetha Rice - Singleton, Assistant Director of Preconstruction

Angela Whitworth, Financial Management Administrator

Estimate Report for file "REVISION"

Section ROADWAY QUANTITIES

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	30000.00	TRAFFIC CONTROL - CSMSL-0008-00(625)	30000.00
150-5010	1	EA	11540.28	TRAFFIC CONTROL, PORTABLE IMPACT ATTENUATOR	11540.28
210-0100	1	LS	100000.00	GRADING COMPLETE - CSMSL-0008-00(625)	100000.00
610-1055	843	LF	2.14	REM GUARDRAIL	1804.02
610-1075	1	EA	176.11	REM GUARDRAIL ANCH, ALL TYPES	176.11
611-5300	843	LF	11.17	RESET GUARDRAIL	9416.31
611-5320	1	EA	875.00	RESET GUARDRAIL ANCHORAGE, ALL TYPES	875.00
620-0100	1100	LF	38.72	TEMPORARY BARRIER, METHOD NO. 1	42592.00
				Section Sub Total:	**$196,403.72**

Section SOUND BARRIER

Item Number	Quantity	Units	Unit Price	Item Description	Cost
624-0410	16660	SF	20.00	SOUND BARRIER TYPE B-STEEL	333200.00
				Section Sub Total:	**$333,200.00**

Section DRAINAGE

Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-0204	82	SY	36.62	PLAIN CONC DITCH PAVING, 4 IN	3002.84
550-4218	2	EA	653.91	FLARED END SECTION 18 IN, STORM DRAIN	1307.82
573-2006	422	LF	12.00	UNDER DRAIN PIPE INCL DRAINAGE AGGR, 6 IN	5064.00
576-1006	152	LF	27.17	SLOPE DRAIN PIPE, 6 IN	4129.84
576-1018	133	LF	43.31	SLOPE DRAIN PIPE, 18 IN	5760.23
668-2100	3	EA	2402.61	DROP INLET, GP 1	7207.83
668-2110	3	LF	334.44	DROP INLET, GP 1, ADDL DEPTH	1003.32
				Section Sub Total:	**$27,475.88**

Section PERMANENT EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	1	AC	1022.21	PERMANENT GRASSING	1022.21
700-7000	1	TN	59.39	AGRICULTURAL LIME	59.39
700-7010	1	GL	21.47	LIQUID LIME	21.47
700-8000	1	TN	291.02	FERTILIZER MIXED GRADE	291.02
700-8100	3	LB	2.40	FERTILIZER NITROGEN CONTENT	7.20
716-2000	922	SY	0.90	EROSION CONTROL MATS, SLOPES	829.80
				Section Sub Total:	**$2,231.09**

Section TEMPORARY EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1	AC	728.93	TEMPORARY GRASSING	728.93
163-0240	1	TN	181.22	MULCH	181.22
163-0300	2	EA	1807.17	CONSTRUCTION EXIT	3614.34
163-0520	26	LF	15.81	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	411.06
163-0530	397	LF	3.64	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	1445.08
163-0550	3	EA	230.68	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	692.04
1630529	44	LF	3.64	CONST REMOVE TEMP. BALED STRAW CHECK DAM	160.16
165-0030	1079	LF	1.03	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1111.37
165-0070	199	LF	1.80	MAINTENANCE OF BALED STRAW EROSION CHECK	358.20
165-0071	22	LF	1.80	MAINTENANCE OF SEDIMENT BARRIER-BALED STRAW	39.60
165-0101	2	EA	531.92	MAINTENANCE OF CONSTRUCTION EXIT	1063.84
165-0105	3	EA	81.41	MAINTENANCE OF INLET SEDIMENT TRAP	244.23

171-0030	2157	LF	3.94	TEMPORARY SILT FENCE, TYPE C	8498.58
643-8200	397	LF	3.32	BARRIER FENCE (ORANGE), 4 FT	1318.04
				Section Sub Total:	**$19,866.69**

Total Estimated Cost: $579,177.38

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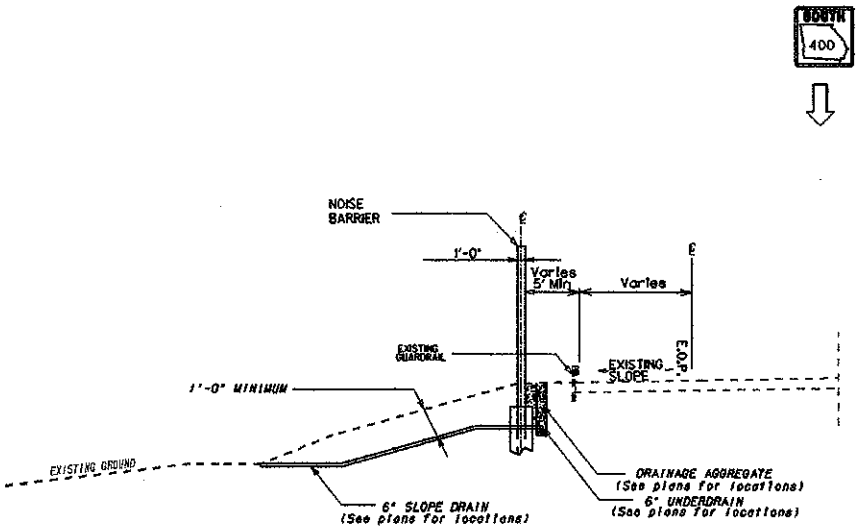
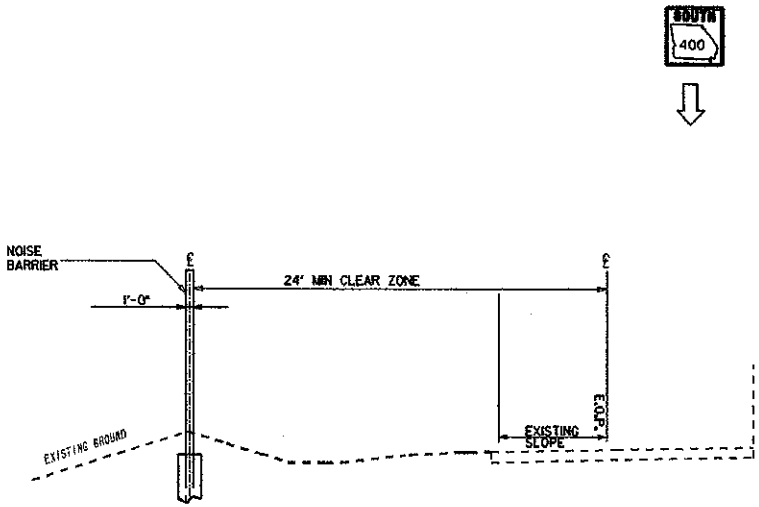


TYPICAL SECTION #1

WESTSIDE NOISE BARRIERS
FROM STA. # 10+46.60 TO 19+94.18



TYPICAL SECTION #2

WESTSIDE NOISE BARRIERS
FROM STA. # 19+94.18 TO 22+34.28

GEORGIA
DEPARTMENT OF TRANSPORTATION

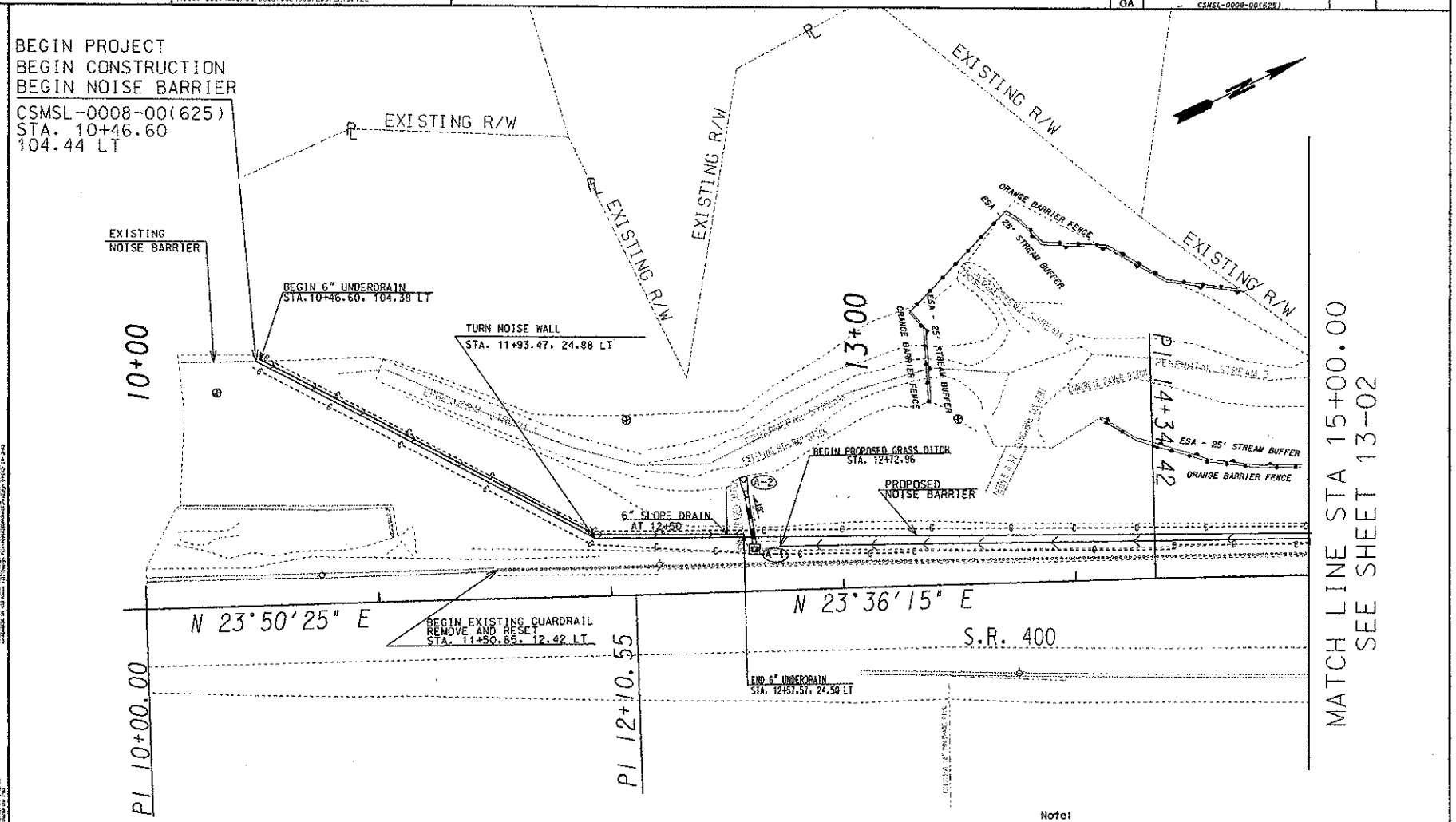
NOT TO SCALE

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: URBAN DESIGN
TYPICAL SECTIONS
S.R. 400 NOISE BARRIER

DRAWING NO. 5-01

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSMSL-0008-00(625)		



Note:
Ephemeral Streams 1 & 4 are non-buffered State Waters.

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: URBAN DESIGN

MAINLINE PLAN

S.R. 400 NOISE BARRIER

DRAWING No. 13-01

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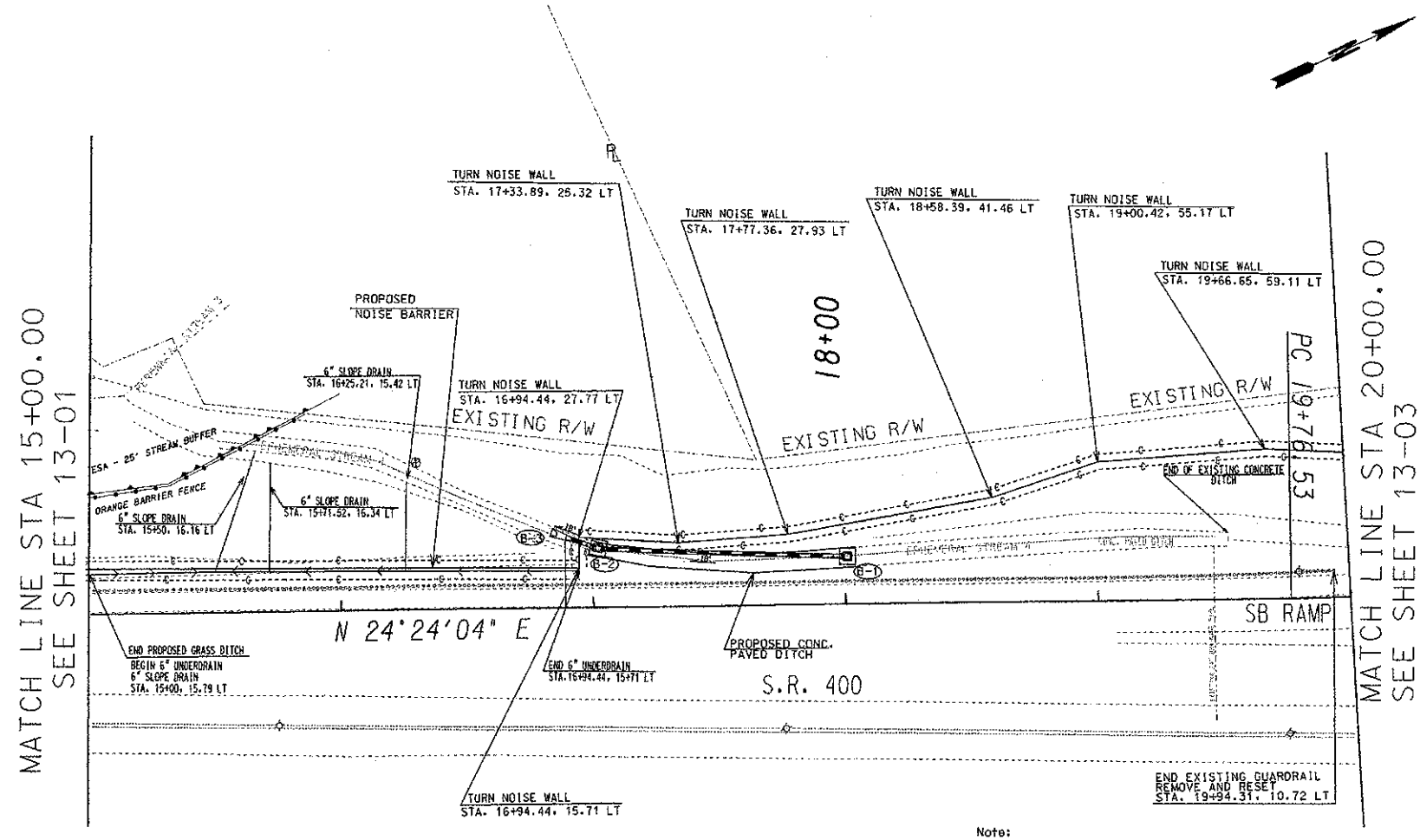
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNSL-0008-00(625)		



Note:
Ephemeral Streams 1 & 4 are non-buffered State Waters.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: URBAN DESIGN

MAINLINE PLAN

S.R. 400 NOISE BARRIER

DRAWING NO. 13-02

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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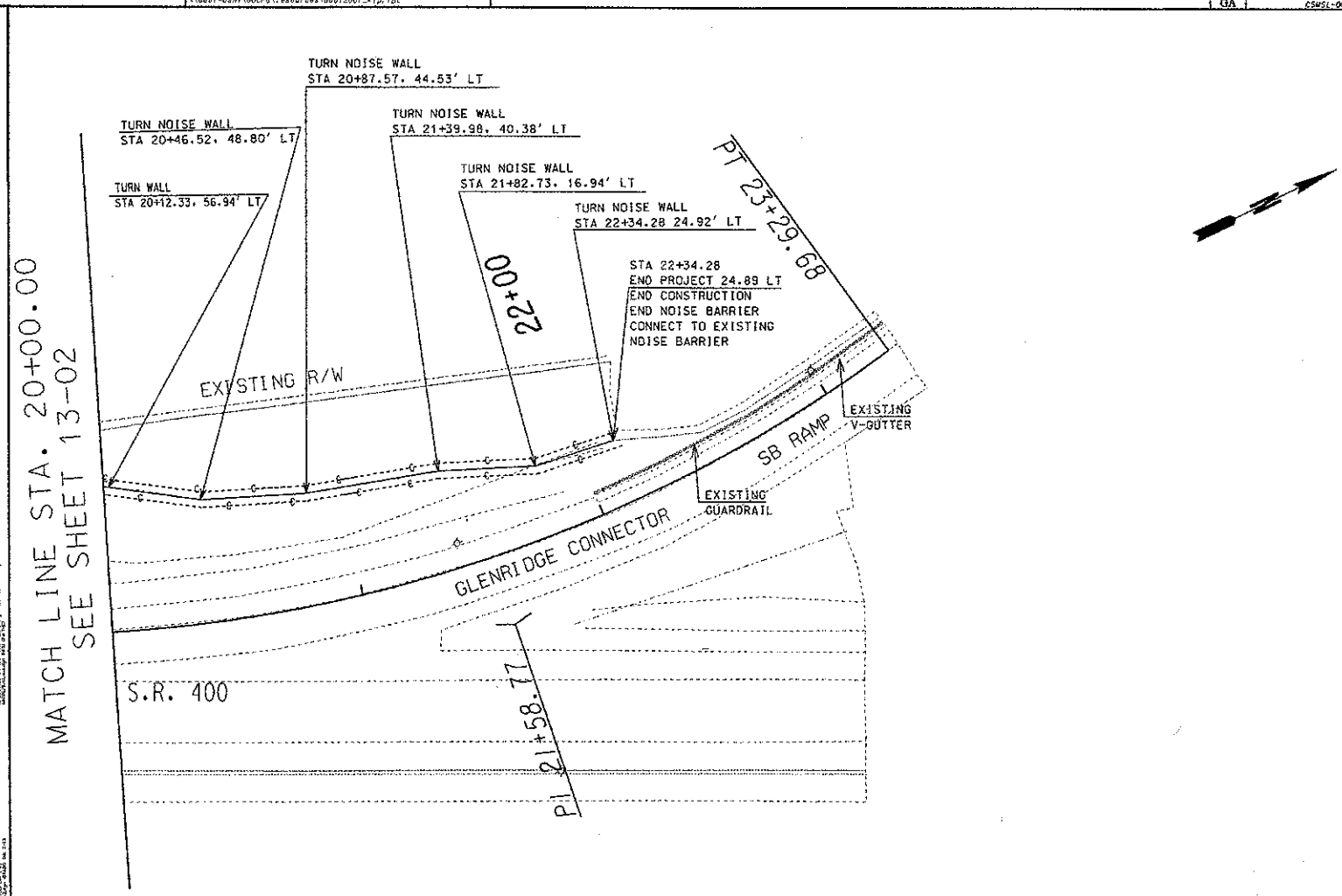

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: URBAN DESIGN

MAINLINE PLAN

S.R. 400 NOISE BARRIER

DRAWING NO. 13-03

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