Created: 6/9/2008
Revised: 04/10/2014

Georgia Department of Transportation Railroad Coordination Submission Checklist

Project Number:	BRSTL-2932-00(001)	**County(s):**	TROUP
PI Number:	343455	**Railroad Owner(s):**	CSX TRANSPORTATION
Project Manager:	KEVIN VANHOUTEN	**Project Manager Contact Number:**	(706) 646-7557

GDOT Project Designer or Design Consultant Firm: URS CORPORATION

Email: kvanhouten@dot.ga.gov

The following checklist shall be completed and signed by the Project Manager with attached project plans to ensure that adequate review and coordination can be performed by the railroad owner. All of the items listed below are required to be included in the submittal unless otherwise approved by the State Railroad Liaison Engineer. **A hard copy of the submittal must be received in this office before the package will be submitted to the Railroad.** Provide details for any exclusions in the space provided on the last page. **Please note that the Railroad Plan Coordination Submittal will not be accepted unless a completed and signed copy of this checklist is included with the submittal package.**

Typically plans are submitted and reviewed by the Railroad twice in the preliminary plan phase and a minimum of once in the final plan phase. The designer should follow the PDP process and flow charts when submitting plans to this office. A separate submission and checklist for each Railroad involved is required.

Please note, some of the information required below is dependent upon the Railroad Owner involved with the respective project. To help determine which Railroad is involved see "**Georgia Rail Map**" located on GDOT's External Website Maps page located at *http://www.dot.ga.gov/travelingingeorgia/rail/Documents/Freight/GeorgiaRailroadMap-2013-14.pdf*

Often the Railroad requests closing of an at-grade crossing within the limits of the project and sometimes beyond. If so these closings must be included in the Public Hearing/Information process and included in the Environmental Process/Document. Signing below certifies that such railroad closures have been addressed in the Public Hearing/ Information and the Environmental process.

The following Items are required for all Railroad Coordination Plan Submittals:

Included	Excluded	
X		A cover letter shall be submitted including: 1. Brief description of the overall project 2. Description of the Department's contractor and the Railroad's responsibilities during construction 3. Complete description of the type of encroachment and/or impact to the Railroad right-of-way including but not limited to the following: • Future track requirements provided for bridge projects and parallel road projects • Vertical clearance provided from the top of the rails to bottom of bridge or utility line • Horizontal offsets provided from the track centerline to any permanent structures • Existing and proposed utilities crossing over and under the tracks • Existing and proposed drainage structures crossing under the tracks and any drainage changes • Temporary at-grade railroad crossing during construction staging • Detours due to construction staging

Included	Excluded	
☒	☐	One letter size location map showing the project area on a broad map view (Approx. Scale 1"=100 Miles). The map needs to be labeled with the north arrow and generally indicate the location of the railroad involvement and the project within the state of Georgia since most Railroad reviewers cover multiple states.

For Projects Involving CSX or Norfolk Southern (and its subsidiaries) Railroads:

Included	Excluded	
☒	☐	One Electronic "PDF" file that contains all plan sheets (including bridge sheets, if applicable) in the area of railroad involvement. **(No Color "PDF" files).** Plan sheets should be in order and legible.
☒	☐	One set of ½ size plan sheets.

For Projects Involving any other Railroad Owners:

Included	Excluded	
☐	■	One Electronic "PDF" file that contains all plan sheets (including bridge sheets, if applicable) showing railroad involvement. **(No Color "PDF" files)**. Plan sheets should be in order and legible.
☐	■	Up to five sets of ½ size plan sheets that involves any Short Line Railroad Companies. **(Check with Railroad Liaison before printing Five sets of plans.)**

For All Projects with Railroad at-grade crossing within or near project limits or along Detour Routes:

Included	Excluded	
☐	■	One additional set of ½ size plans will be required for the Railroad Crossing Program Manager if any of the following conditions apply: • If the project impacts an at-grade railroad crossings • If the project is in the vicinity (within 200' of Limits of Construction) of an at-grade crossings • If an at-grade railroad crossing is along a Detour route.

The plans must include the following information:

General Plan Requirements

All information detailed in the GDOT Plan Presentation Guide shall be included with these plans. ***Please note that the plan sheets submitted should only cover the areas where railroad involvement is proposed. Note: Construction plan sheets must show existing and proposed Right-of-Way and Easements on RR property (See GDOT Policy 6865-9)***

Included	Excluded	
☒	☐	Required Right of Way & Easements are shown on Construction Plan Sheets in accordance with GDOT Policy 6865-9 & **Temporary Easements to be obtained by the State Utilities Office are labeled as "Easement by Railroad Agreement".**

X	☐	The correct names of the Railroad and railroad mileposts must be on the construction plans. *(Usually this is found visiting the site or in requested survey data) (It is also helpful to include the crossing inventory number located at the site of the existing railroad crossing when this applies. There is a six-digit number with a capital letter at the end (like **258947E**). You can go to FRA web site at* http://safetydata.fra.dot.gov/OfficeofSafety/publicsite/crossing/crossing.aspx *for further information concerning the crossing or request it from the Railroad Crossing Program Manager.*

Included	Excluded	
☐	X	For all at-grade crossings, show any existing railroad warning device equipment locations within 200' of Limits of Construction.

Preliminary & Revised Preliminary Plan Submissions

The preliminary submission should be made **after the PFPR meeting is held and any corrections made that would impact the railroad.** Revised Preliminary Plans Submission should be made as soon as comments from the Railroad have been received and addressed. Multiple submissions may be needed until GDOT receives preliminary plan approval from the Railroad.

Included	Excluded	
X	☐	Cover Sheet
X	☐	General Note Sheets (if any notes impact the Railroad)
X	☐	Typical Sections
☐	X	If required to assist in plan review orientation on complex projects, include a Construction Plan Layout sheet with sheet numbers (w/ north arrow and side streets labeled).
X	☐	Construction plans for all sheets showing RR tracks/property.
X	☐	Roadway profile in area of railroad involvement.
X	☐	**Railroad** profile in area of involvement (500' is required in each direction from the CL of the bridge).
☐	X	Staging plans that involve RR property, including the location of temporary railroad warning devices needed during construction.
X	☐	Detour Sheet: **Note that for at-grade railroad crossings with roadway surface/track work, a full road closer will be required in construction for a minimum of 3 days.**
X	☐	Drainage profiles and cross sections as applicable showing all drainage flowing toward and away from the railroad property. Drainage pipes under the RR tracks should be designed for 100 yr storm.
X	☐	One "PDF" of Drainage Calculations showing drainage patterns to and from the railroad property. The post-developed peak flows should be shown to be equal to or less than the pre-developed condition.
X	☐	Roadway cross sections.
X	☐	**Railroad** cross sections. The railroad cross sections need to show the railroad track, top of rail elevations, track Centerline, proposed track work (if any) with the railroad right of way and any proposed DOT / public easements and / or right of way.
X	☐	Utility sheets showing existing utilities in area of railroad involvement (and proposed if available at this time). Also show any utilities installed on or along the railroad property if available.

X	☐	Signal, Signing/Marking & ATMS Plans within area of railroad crossing. Show boring method and bore pits if applicable.

Included	Excluded	
X	☐	Erosion Control Plans that involve the RR property. Include the Erosion Control Legend sheets.
☐	X	**For Revised Preliminary Submissions**: Provide written responses addressing all railroad comments.

For Projects with bridge(s) / railroad involvement:

Included	Excluded	
X	☐	Show Bridge bent / column locations on construction plan sheets when applicable.
X	☐	Preliminary bridge layout sheets (layout must be approved by the Office of Bridge Design if plans are designed by consultants.)
X	☐	Bridge overhead data sheet.

Final Plan Submission

The final plan submission should be made **on or before the FFPR meeting if no expected changes will be made that would impact the Railroad.** If changes occur to the design in the area around the railroad after the final plans submission the designer will need to submit a revised plans package.

Included	Excluded	
☐	☐	Final Plan Submission should include all of the above items from the Preliminary Plan Submission.
☐	☐	Responses to all comments received from the Railroad from any previous review.
☐	☐	For all at-grade crossings, show any existing and proposed railroad warning device equipment locations. The proposed information should be obtained and included in the construction plan sheets as directed by the Railroad Crossing Program Manager.
☐	☐	Include Georgia standards 9021A, 9022A, 9023A, 9024A, 9025A, (if applicable to project). Roadway profile should be designed to accommodate concrete panels. When 9021A is applicable the designer should show the concrete panel location and the GDOT Contractor paving limits.
☐	☐	Utility sheets showing proposed utility relocation in the area of railroad involvement
☐	☐	If Utility relocation is included as part of the project a profile of any utility crossing under or over the railroad tracks should be included.

☐ Months Provide the estimated time of project construction in the space provided.

For Projects with bridge / railroad involvement:

Note: When water lines are to be suspended from the bridge, the water line is to be incased to meet Railroad Requirements.

Yes	No

☐	☐	Have bridge plans been approved by the State Bridge Design and Structural Engineer?
☐	☐	Final Bridge Plans. (Include all bridge sheets.)

Included	**Excluded**	
☐	☐	One "PDF" file of bridge calculations if railroad bridge goes over roadway.
☐	☐	If the new bridge is proposed to eliminate an at-grade railroad crossing with warning devices, then a cost estimate for the bridge construction will be required for the final plan submission. Contact the Railroad Liaison Engineer for details regarding calculating railroad participation costs.

Please indicate basis for all excluded items below and any additional project information:

All required elements with the exclusions stated above have been included in the Railroad Coordination Submittal.

GDOT Project Manager

Date

If you have further questions on plan submission, please call the State Railroad Liaison Engineer at 404-631-1370 or Railroad Crossing Engineer at 404-631-1372.

Please submit to: State Railroad Liaison Engineer
Georgia Department of Transportation
Office of Utilities
One Georgia Center
600 West Peachtree Street NW, 10th Floor
Atlanta, Georgia 30316

CITY OF LAGRANGE, TROUP COUNTY
CS 1081/GREENVILLE ST @ CSX RR
RAILROAD CROSSING PLAN
SCALE IN FEET
0
400
800
1600
FAIR ST
WALLACE ST
CANAL ST
CS 1081/GREENVILLE ST
CSX TRANSPORTATION
CSX RAILROAD
305048IG
BEGIN PROJECT
GREENVILLE ST
BRIDGE BENTS
BRIDGE
CSX RAILROAD
305048IG
CSX TRANSPORTATION
PAXTON ST
ROBERTSON ST
LOUISE ST
RAGLAND ST
ELEANOR ST
END PROJECT
GREENVILLE ST
SR 109/LAFAYETTE PKWY

URS	SUBJECT: GREENVILLE ST, TROUP COUNTY	BY: RICK KNOEDLER
		DATE: 3/28/13
		REF:
		PAGE: OF

STRUCTURE = B2

$Q = C I A$

PAVEMENT = .65 ACRES

GRASS = .43 ACRES

WTD "C" $\frac{(.65)(.95) + (.43)(.40)}{.43 + .65} = .73$

$Q = C I A$

ATLANTA

25 YR

5 MIN $= (.73)(6.99)(1.08) = 5.51$ CFS

10 MIN $= (.73)(8.39)(1.08) = 6.61$ CFS

24" PIPE CAN HANDLE THIS ADDITIONAL FLOW

16.60 CFS (UPSTREAM) + 6.61 CFS

= 23.21 CFS

23.21 CFS < 33.86 CFS ∴ ✓

URS	SUBJECT GREENVILLE ST TROUP COUNTY	BY RICK KNOEDLER
		DATE 3/28/13
		REF
		PAGE OF

A4

$Q = C I A$

WTD "C"

0.36 ACRES GRASS

0.23 ACRES ROAD

$$\frac{(.36)(.40) + (.23)(.95)}{.36 + .23} = .61$$

$Q = C I A$

$= (.61)(8.39)(.59) = 3.02$ CFS

A3

$Q = C I A$

$= (.95)(8.39)(.11) = .88$ CFS

URS	SUBJECT: GREENVILLE ST TROUP COUNTY	BY: RICK KNOEDLER
		DATE: 3/28/13
		REF
		PAGE OF

GUTTER SPREAD AT STA 115+55 GREENVILLE ST.

$Q = CIA$ (I: 5 MIN 10 YR ATLANTA)

$= (.95)(7.38)(.36)$

$= 2.52$ CFS

PROF GRADE 2.34 %
X-SLOPE 2.20 %

VISUAL URBAN GUTTER SPREAD = 6.99' ✓

FHWA Urban Drainage Design Program, HY-22
Drainage of Highway Pavements

Inlets on Grade
Date: 03/28/2013

Project No. : 15281277
Project Name.: GREENVILE ST. TROUP COUNTY

Computed by : KNOEDLER

Inlets on Grade: Gutter Flow Parameters

Roadway and Discharge Data

	Cross Slope	Composite
S	Longitudinal Slope (ft/ft)	0.0234
Sx	Pavement Cross Slope (ft/ft)	0.0220
Sw	Gutter Cross Slope (ft/ft)	0.0800
n	Manning's Coefficient	0.016
W	Gutter Width (ft)	2.00
a	Gutter Depression (inch)	0.00
Q	Discharge (cfs)	2.520
T	Width of Spread (ft)	6.99

Gutter Flow

Eo	Gutter Flow Ratio	0.733
d	Depth of Flow (ft)	0.27
V	Average Velocity (ft/sec)	3.86

URS	GREENVILLE ST. TROUP COUNTY	SUBJECT	BY RICK KNOEDLER
			DATE 3/28/13
			REF
			PAGE OF

A4 → A3

A4 796.96 − (12)(.02) − (2)(.08) + .5 = 797.06 TOP OF CURB

INVERT 796.96 − (12)(.02) − 2.25 − 2.85 = 791.62

EOP — PIPE HT. 24" — PAV'T DRSING ↑ FILL

A3 796.96 − (12)(.01) − (2)(.08) + .5 = 797.18 TOP OF CURB

791.62 − (29)(.02) = 791.04

A4 INVERT

A2 791.04 − (49)(.02) = 790.06

B3 787.22 − (12)(.02) − (2)(.08) + .5 = 787.32 TOP OF CURB

787.22 − (12)(.02) − 2.25 − 2.85 = 781.88

PIPE HT. 24" — PAV'T DRSING ↑ FILL

B2 INVERT 781.88 − (24)(.01) = 781.64

OUT FALL

$\frac{781.64 - 782.36}{62'}$ = DOESN'T WORK

URS	GREENVILLE ST. TROUP COUNTY	SUBJECT	BY RICK KNOEDLER
			DATE 3/28/13
			REF
			PAGE OF

STRUCTURE = B3

	RUNOFF COEFF.			
0.36 ACRES ROAD	.95			
3.21 ACRES COMBINED	20% →	.95	.64 ACRES	(ROOFS, DRIVES)
	80% →	.40	2.57 ACRES	GRASS

WT'D "C" VALUE

$$(.95)(.36) + (.95)(.64) + (.40)(2.57) = 1.98$$

$$= \frac{1.98}{4.3} \text{ ACRES} \rightarrow \text{WT'D "C"} = .46$$

$Q = C\ I\ A$

25 YR

5 MIN $= (.46)(8.39)(4.3) = 16.60$ CFS (ATLANTA)

10 MIN $= (.46)(6.99)(4.3) = 13.82$ CFS (ATLANTA)

CSX OVERHEAD BRIDGE CROSSING DATA

1. Location: La Grange (City) Troup (County) Georgia (State)

2. Railroad Division: Atlanta Division

3. Railroad Valuation Station at Centerline of Bridge: MP 0069.49

4. Distance from nearest Milepost to Centerline of Bridge: 2587 ft to railroad MP 0070

5. DOT Crossing Number: 050481G

6. State Project Number: BRSTL-2932-00(001)

7. Description of Project:

CS 1081 (Greenville Street) over CSX Transportation Bridge Replacement

8. Minimum Horizontal Clearance from Centerline of Nearest Track:

A. Proposed: 25'-0" B. Existing (if applicable): 8'-0"

9. Minimum Vertical Clearance above top of low rail:

A. Proposed: 23'-0" B. Existing (if applicable): 22'-0"

10. List piers where crashwalls are provided:

Pier:	Distance from centerline of track:
N/A	N/A

11. Describe how drainage from bridge is handled:

Flow will be captured off bridge.

12. List piers where shoring is required to protect track:

N/A

13. Plan Submittal: Preliminary X Final

NOTE: CSX Criteria for Overhead bridges apply to Items 8 through 13.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED
CS 1081/GREENVILLE ST @ CSX TRANSPORTATION
BRIDGE REPLACEMENT

TROUP COUNTY

FEDERAL AID PROJECT
BRSTL-2932-00(001)

FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.I. NO. 343455

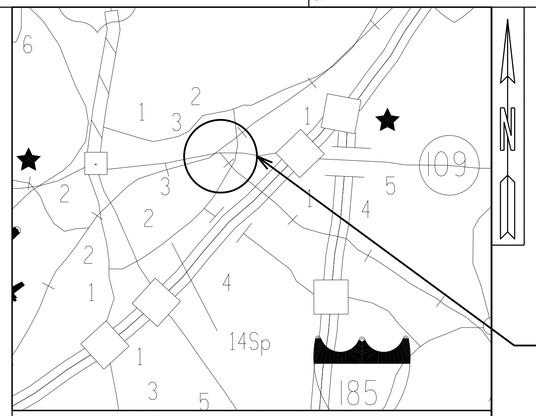
URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, NE
SUITE 900
ATLANTA, GA 30328
PH. (678) 808-8800

PREPARED BY: _____
CONSULTANT

RECOMMENDED FOR SUBMISSION BY: _____

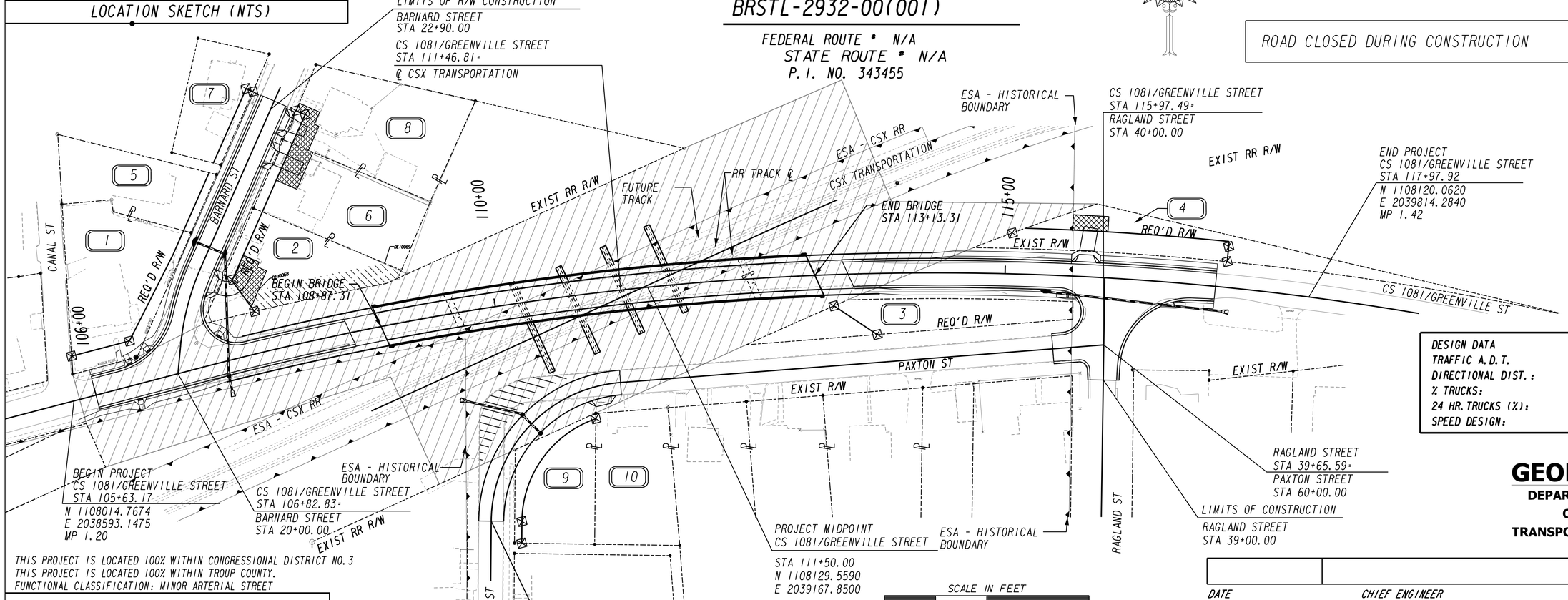
SUBMITTED BY: _____
STATE PROGRAM DELIVERY ENGINEER

ROAD CLOSED DURING CONSTRUCTION



PROJECT LOCATION

LOCATION SKETCH (NTS)



DESIGN DATA	2016/2036
TRAFFIC A.D.T.	3100/4200
DIRECTIONAL DIST.:	60/40
% TRUCKS:	1%
24 HR. TRUCKS (%):	3%
SPEED DESIGN:	40 MPH

GEORGIA
DEPARTMENT OF TRANSPORTATION

THIS PROJECT IS LOCATED 100% WITHIN CONGRESSIONAL DISTRICT NO. 3
THIS PROJECT IS LOCATED 100% WITHIN TROUP COUNTY.
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL STREET

NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", "STATE HIGHWAY DEPARTMENT ", GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

LENGTH OF PROJECT	TROUP CO. COUNTY NO. 285
	MILES
NET LENGTH OF ROADWAY	0.1649
NET LENGTH OF BRIDGES	0.0623
NET LENGTH OF PROJECT	0.2298
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF PROJECT	0.2298

DATE CHIEF ENGINEER

PLANS COMPLETED - -	L&D APPROVAL: 03-04-2003
REVISIONS	

01-001

SIGN AND STRIPING GENERAL NOTES

1. ALL HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION; AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM HARRIS COUNTY ENGINEER.

3. ALL HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.

4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF THE PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.

4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARDRAIL SHALL BE 6 FEET FROM THE GUARDRAIL TO THE NEARER EDGE OF THE SIGN(S).

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH, 2 INCH X ⅛INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE ⅜ INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 INCH OR 48 INCH WIDE X 18 INCH OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X ⅛ INCH X (WIDTHOF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.

7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS, REFER TO SIGN ASSEMBLY TYPICAL FRAMING DETAILS.

8. TYPE III (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

9. TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3a, R1-4a, R5-1 AND R5-1a).

14. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.

15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS' OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.

17. CONTRACTOR WILL, AS REQUESTED BY TROUP COUNTY ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

PROJECT NOTES

1. THERE IS NO SUITABLE PLACE TO BURY EXISTING BRIDGE/CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE TO DISPOSE OF EXISTING BRIDGE/CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.

2. A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGE IS REQUIRED FOR THIS PROJECT.

3. ALL EXISTING PIPES SHALL BE RETAINED UNLESS OTHERWISE NOTED IN THE PLANS.

4. DRIVEWAYS WILL BE PAVED BACK TO THE TIE-IN POINT OR REQUIRED RIGHT OF WAY WHICHEVER IS GREATER. DIRT DRIVEWAYS WILL BE PAVED WITH ASPHALT TO THE R/W LINE AND CONTINUED WITH AGGREGATE SURFACE COURSE TO THE TIE-IN POINT. ALL DRIVEWAYS SHALL BE CONSTRUCTED AT A WIDTH OF 14' UNLESS OTHERWISE NOTED IN THE PLANS.

5. DRIVES SHALL BE CONSTRUCTED USING:
ASPHALT - ASPH CONC 9.5 MM SUPERPAVE (135 LBS/SY)
GRADED AGGREGATE BASE, 6"

6. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.

7. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SIGNING THE DETOUR AT NO ADDITIONAL COST TO THE DEPARTMENT.

PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION

TYPE OF PIPE INSTALLATION				CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
					ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR AASHTO F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING			X							
STORM DRAIN	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING			X					X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	ADT < 250	X					X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	250 < ADT < 1500	X					X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	1500 < ADT < 15,000	X					X	X	X
STORM DRAIN	CROSS DRAIN	GRADE ≤ 10%	ADT > 15,000	X							
STORM DRAIN	CROSS DRAIN	GRADE > 10%	ADT < 250						X	X	X
STORM DRAIN	CROSS DRAIN	GRADE > 10%	ADT > 250						X	X	X
SIDE DRAIN				X					X	X	X
PERMANENT SLOPE DRAIN					X	X	X		X	X	X
PERFORATED UNDERDRAIN					X	X	X	X	X		X

NOTE:

1. ALLOWABLE MATERIALS ARE INDICATED BY AN "X".
2. STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND THE STANDARD SPECIFICATIONS.
3. GRADED AGGREGATE BACKFILL SHALL BE USED IN CROSS DRAIN APPLICATIONS FOR ALL PLASTIC PIPES (AASHTO M-294, HDPE PIPE ; AASHTO M-304, PVC PIPE; ASTM F-949, PVC PIPE).
4. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.

REV. 09-03-08

ENVIRONMENTAL RESOURCES IMPACT TABLE

RESOURCE NAME (FROM SECTION A OF THE ECT)	LOCATION			PERMITTED CONSTRUCTION ACTIVITY	SPECIAL PROVISION?	COMMENTS
	BEGINING STATION	ENDING STATION	SIDE	(FROM SECTION A OF THE ECT)	(FROM SECTION B OF THE ECT)	(FROM SECTION C OF THE ECT, COMMENTS ONLY)
DUNSON MILL HISTORIC DISTRICT	STA 106+00	STA 115+65.97	RIGHT LEFT	GRADING, BRIDGE REPLACEMENT	107.23	NONE

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Know what's **below.**
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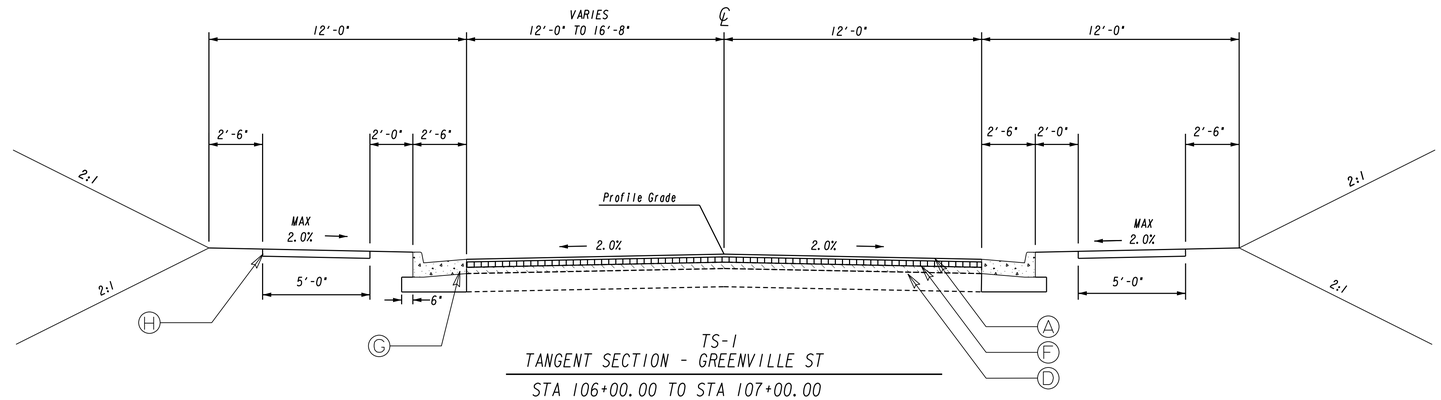
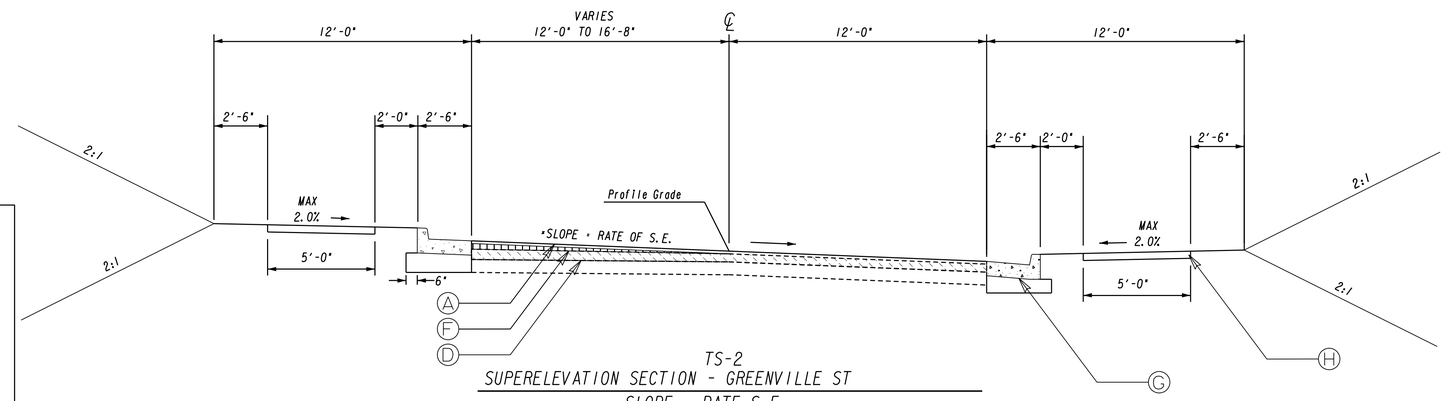
SERVICE	UTILITY OWNER
ELECTRICAL	GEORGIA POWER
GAS	CITY OF LAGRANGE
SEWER	CITY OF LAGRANGE
WATER	CITY OF LAGRANGE
TELEPHONE	BELL SOUTH
OTHER	VERIZON/MCI NETWORK SERVICES
CABLE TV	CHARTER
RAILROAD	CSX TRANSPORTATION

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



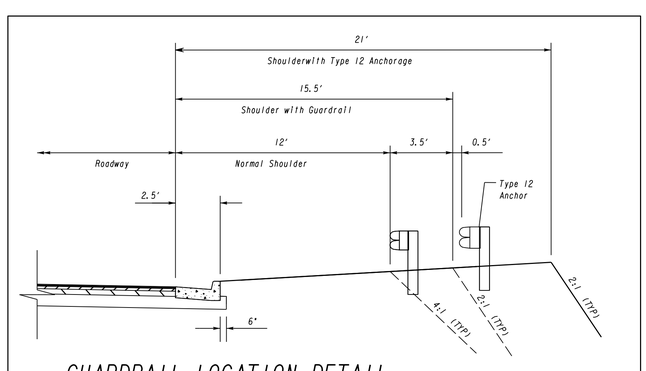
TS-1
TANGENT SECTION - GREENVILLE ST

STA 106+00.00 TO STA 107+00.00
STA 115+00.00 TO STA 117+00.00



TS-2
SUPERELEVATION SECTION - GREENVILLE ST

SLOPE = RATE S.E.
SEE PLANS



GUARDRAIL LOCATION DETAIL
FOR CURB AND GUTTER

SEE PLAN FOR LOCATION
SEE GA STD 4391 FOR GUARDRAIL LOCATION
N.T.S.

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0-10'	0-10'
2:1	OVER 10'	OVER 10'

(A) RECYLCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE, GP 2, 135 LBS/SY
(B) RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE, GP 1 OR 2, 220 LBS/SY
(C) RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE, GP 1 OR 2, 330 LBS/SY
(D) EXISTING PAVEMENT
(E) 10" GRADED AGGREGATE BASE CRS, INC MATL
(F) RECYCLED ASPHALTIC CONCRETE LEVELING, INC BITUM MATL
(G) 8"X30" CONC CURB & GUTTER, GA STD 9032 TYPE 2
(H) 5' CONCRETE SIDEWALK

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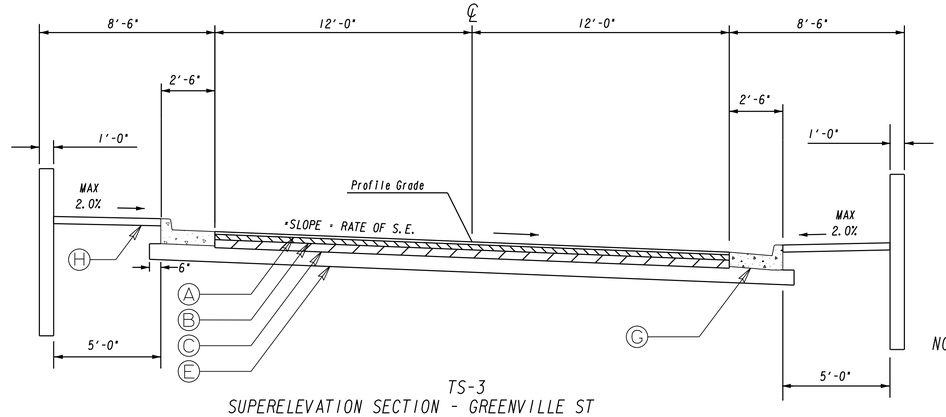
TYPICAL SECTIONS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 05-001

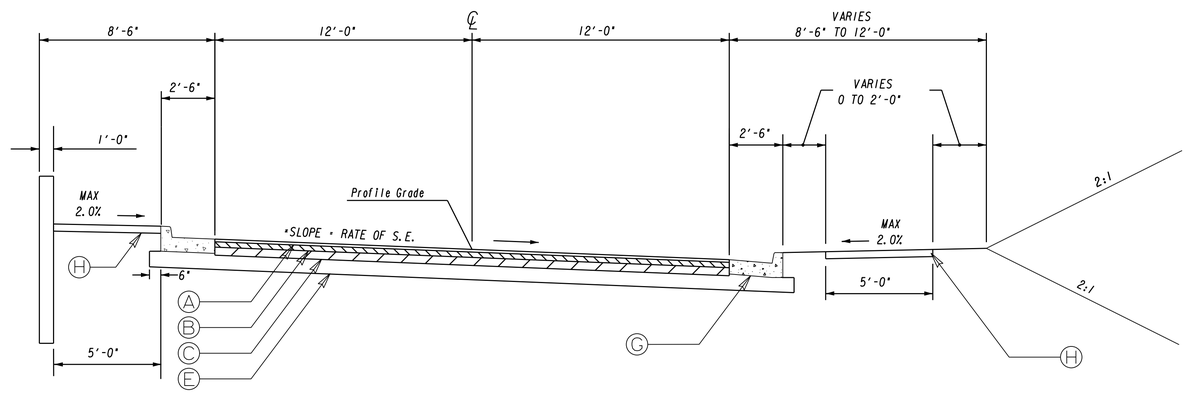
NOTE: WALL BEGINS STA 107+51.29' LT



NOTE: WALL BEGINS STA 107+27.13 RT

TS-3
SUPERELEVATION SECTION - GREENVILLE ST
FULL DEPTH

STA 107+00.00 TO STA 108+57.31
STA 113+43.31 TO STA 114+27.88



TS-4
SUPERELEVATION SECTION - GREENVILLE ST
FULL DEPTH

SLOPE = RATE S.E.
SEE PLANS

ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
1.5% - MINIMUM	1.56% - MINIMUM
2.00% - DESIRABLE	2.00% - DESIRABLE
2.50% - MAXIMUM	3.00% - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

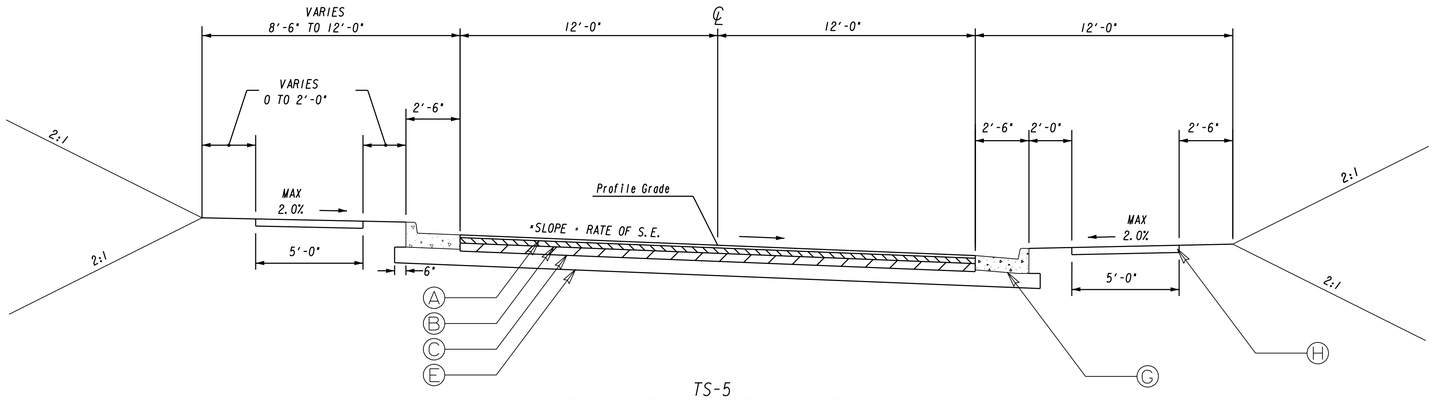
50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH EQUAL TO THE SPEED DESIGN DIVIDED BY 5.

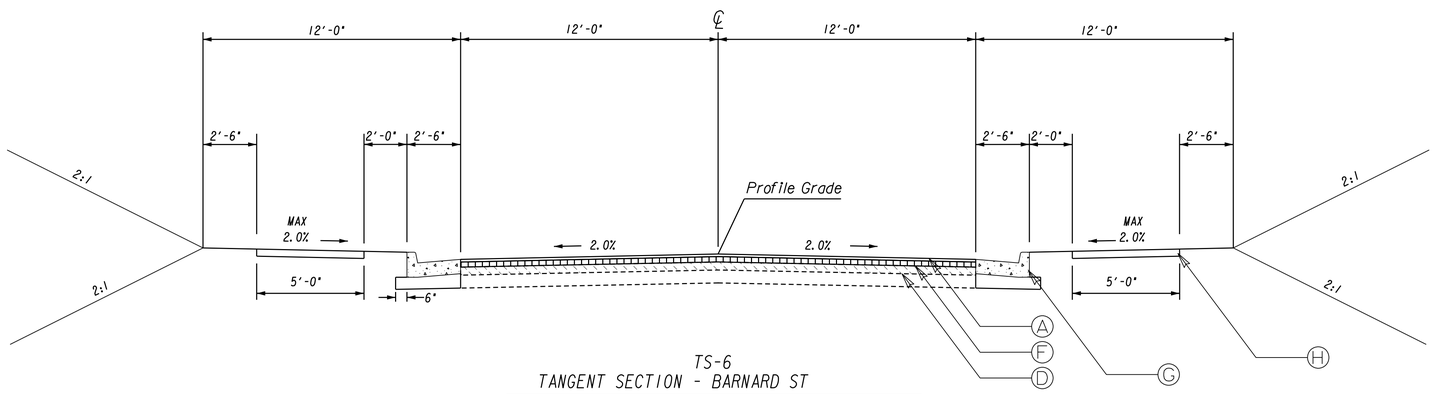
SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0-10'	0-10'
2:1	OVER 10'	OVER 10'

(A) RECYLCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE, GP 2, 135 LBS/SY
(B) RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE, GP 1 OR 2, 220 LBS/SY
(C) RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE, GP 1 OR 2, 330 LBS/SY
(D) EXISTING PAVEMENT
(E) 10" GRADED AGGREGATE BASE CRS, INC MATL
(F) RECYCLED ASPHALTIC CONCRETE LEVELING, INC BITUM MATL
(G) 8"X30" CONC CURB & GUTTER, GA STD 9032 TYPE 2
(H) 5' CONCRETE SIDEWALK



TS-5
SUPERELEVATION SECTION - GREENVILLE ST.
FULL DEPTH

STA 114+27.88 TO STA 115+00.00



TS-6
TANGENT SECTION - BARNARD ST

STA 20+00.00 TO STA 22+75.00

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0-10'	0-10'
2:1	OVER 10'	OVER 10'

(A) RECYLCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE, GP 2, 135 LBS/SY
(B) RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE, GP 1 OR 2, 220 LBS/SY
(C) RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE, GP 1 OR 2, 330 LBS/SY
(D) EXISTING PAVEMENT
(E) 10" GRADED AGGREGATE BASE CRS, INC MATL
(F) RECYCLED ASPHALTIC CONCRETE LEVELING, INC BITUM MATL
(G) 8"X30" CONC CURB & GUTTER, GA STD 9032 TYPE 2
(H) 5' CONCRETE SIDEWALK

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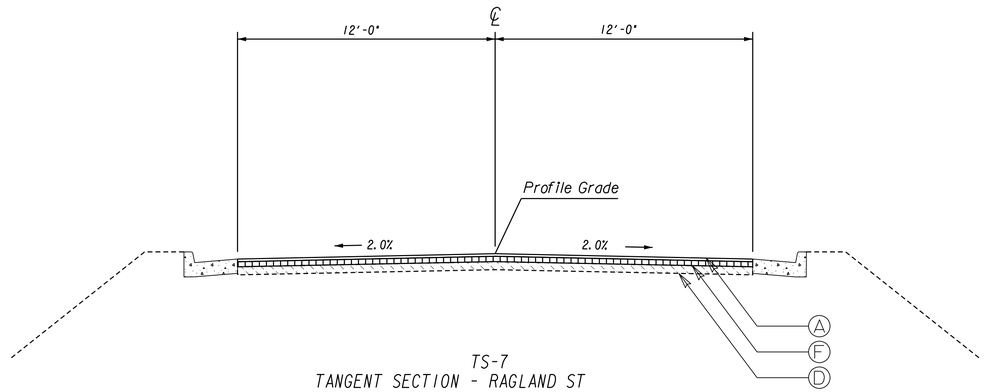
TYPICAL SECTIONS

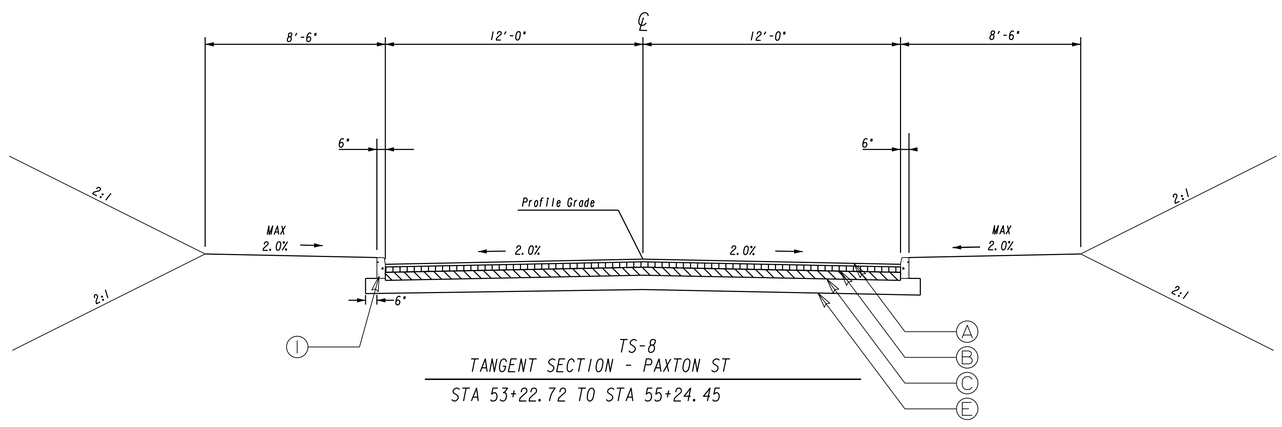
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 05-003



TS-7
TANGENT SECTION - RAGLAND ST

STA 39+00.00 TO STA 40+00.00



TS-8
TANGENT SECTION - PAXTON ST

STA 53+22.72 TO STA 55+24.45

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0-10'	0-10'
2:1	OVER 10'	OVER 10'

(A) RECYLCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE, GP 2, 135 LBS/SY
(B) RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE, GP 1 OR 2, 220 LBS/SY
(C) RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE, GP 1 OR 2, 330 LBS/SY
(D) EXISTING PAVEMENT
(E) 10" GRADED AGGREGATE BASE CRS, INC MATL
(F) RECYCLED ASPHALTIC CONCRETE LEVELING, INC BITUM MATL
(G) 8"X30" CONC CURB & GUTTER, GA STD 9032 TYPE 2
(H) 5' CONCRETE SIDEWALK
(I) CONC HEADER CURB, GA STD 9032 TYPE 2

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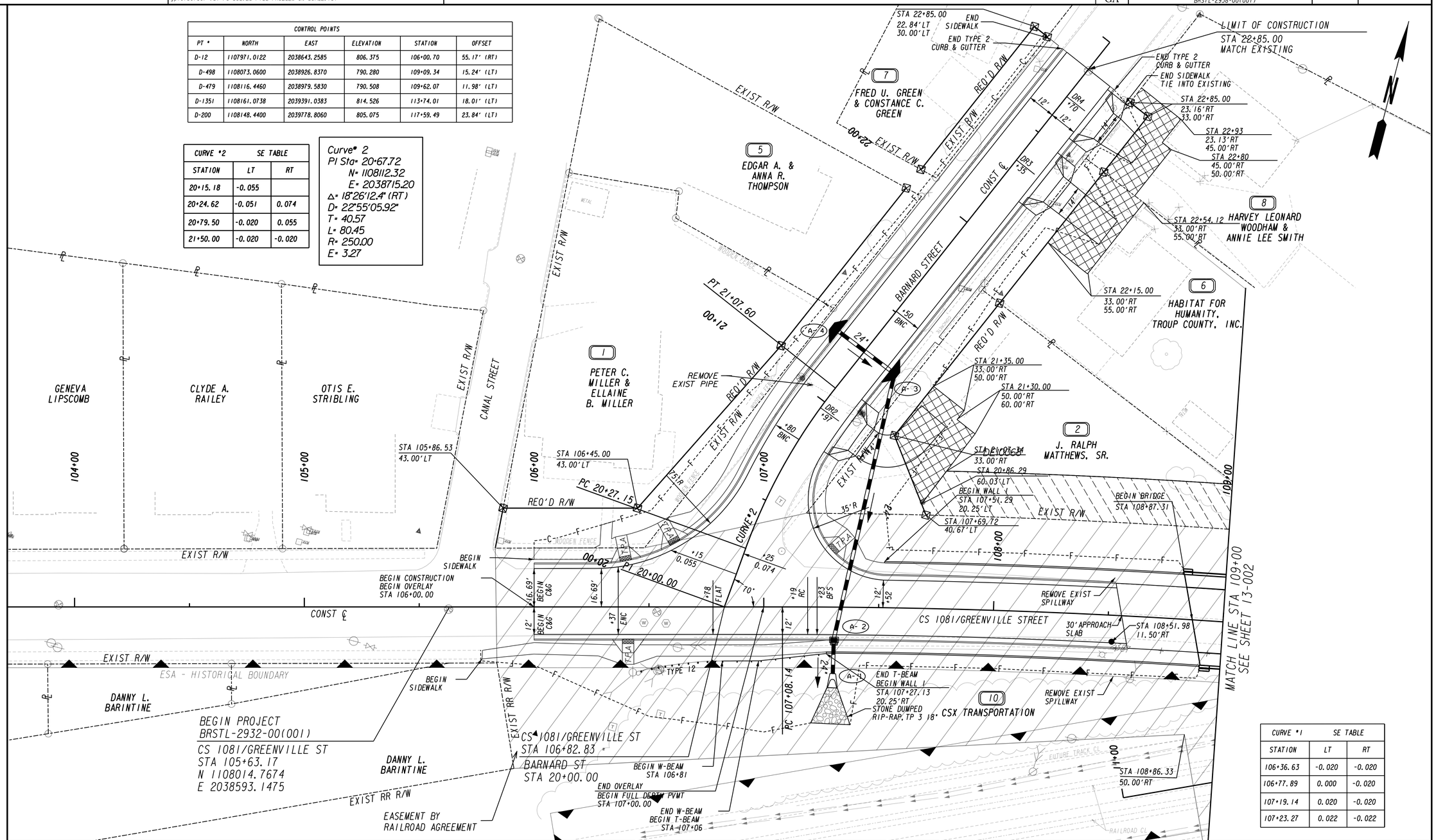
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 05-004

CONTROL POINTS					
PT *	NORTH	EAST	ELEVATION	STATION	OFFSET
D-12	1107971.0122	2038643.2585	806.375	106+00.70	55.17' (RT)
D-498	1108073.0600	2038926.8370	790.280	109+09.34	15.24' (LT)
D-479	1108116.4460	2038979.5830	790.508	109+62.07	11.98' (LT)
D-1351	1108161.0738	2039391.0383	814.526	113+74.01	18.01' (LT)
D-200	1108148.4400	2039778.8060	805.075	117+59.49	23.84' (LT)

CURVE *2 SE TABLE		
STATION	LT	RT
20+15.18	-0.055	
20+24.62	-0.051	0.074
20+79.50	-0.020	0.055
21+50.00	-0.020	-0.020

Curve* 2
PI Sta= 20+67.72
N= 1108112.32
E= 2038715.20
Δ= 18°26'12.4" (RT)
D= 22°55'05.92"
T= 40.57
L= 80.45
R= 250.00
E= 3.27



CURVE *1 SE TABLE		
STATION	LT	RT
106+36.63	-0.020	-0.020
106+77.89	0.000	-0.020
107+19.14	0.020	-0.020
107+23.27	0.022	-0.022

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

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SCALE IN FEET
0 20 40 80

REVISION DATES

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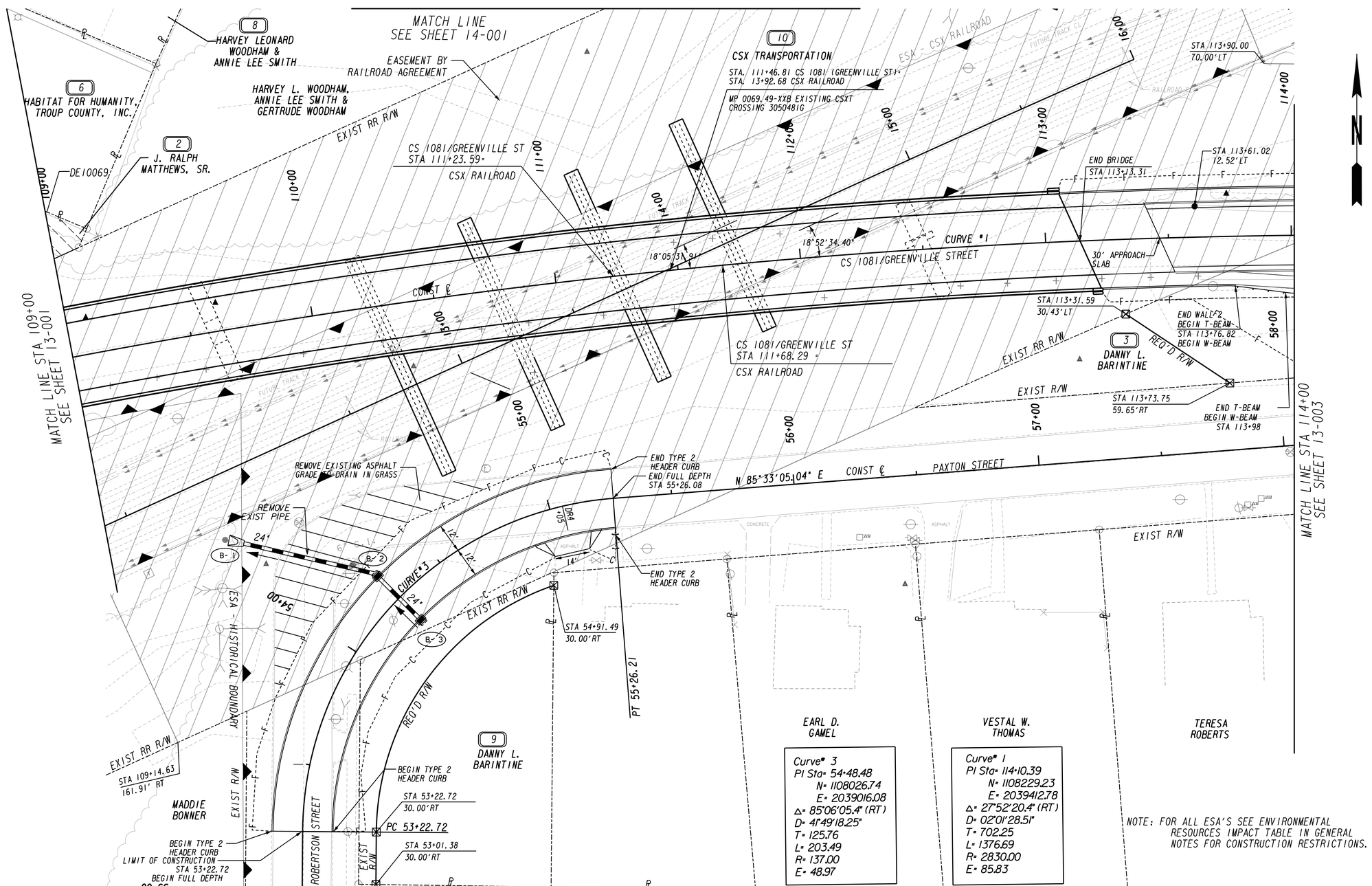
MAINLINE PLAN

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 13-001

6/20/2011 GPLN



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

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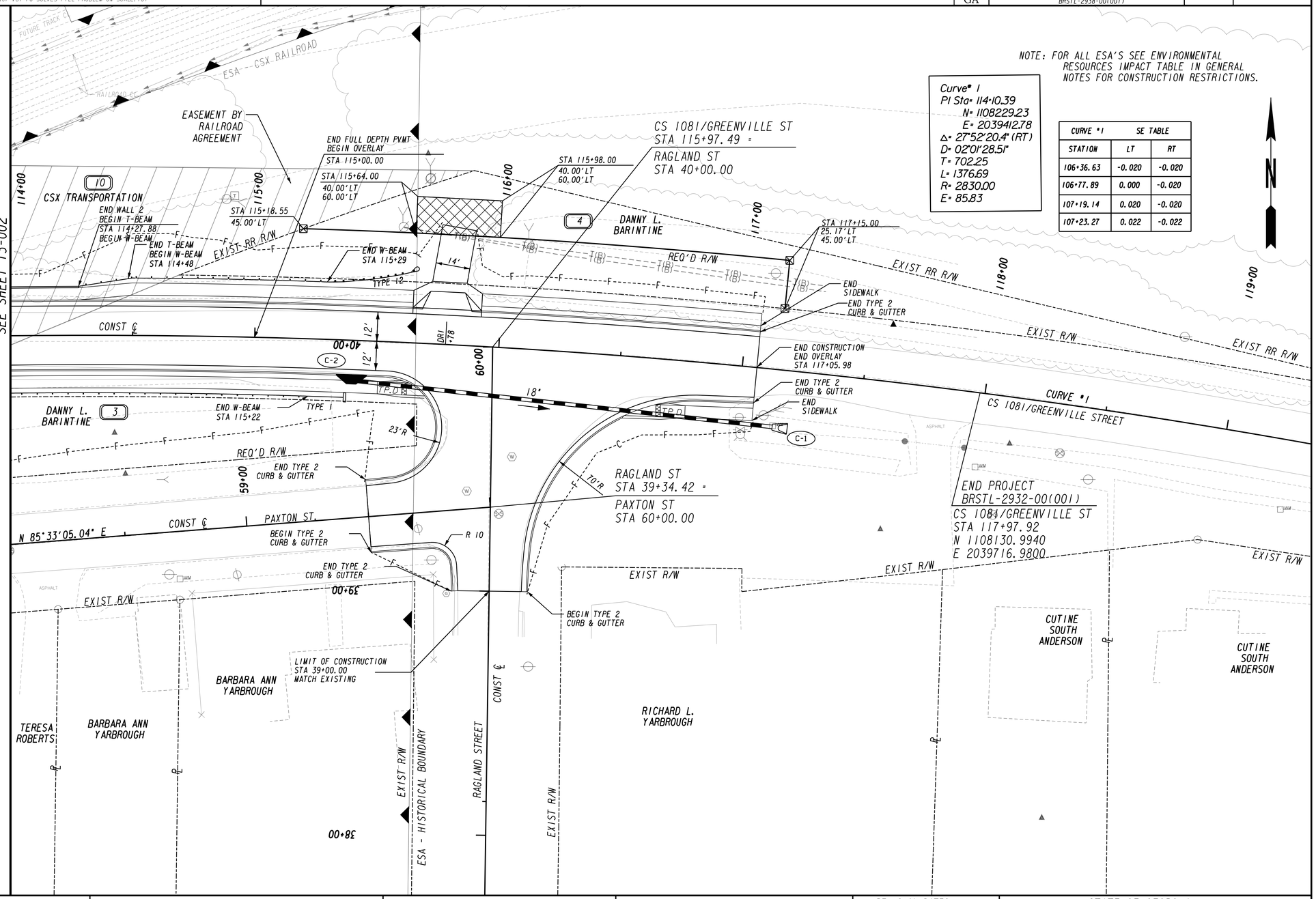
MAINLINE PLAN

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 13-002

6/20/2011 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2938-00(001)		



NOTE: FOR ALL ESA'S SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

Curve# 1
PI Sta= 114+10.39
N= 1108229.23
E= 2039412.78
Δ= 27°52'20.4" (RT)
D= 02°01'28.51"
T= 702.25
L= 1376.69
R= 2830.00
E= 85.83

CURVE #1 SE TABLE		
STATION	LT	RT
106+36.63	-0.020	-0.020
106+77.89	0.000	-0.020
107+19.14	0.020	-0.020
107+23.27	0.022	-0.022

N

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

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SCALE IN FEET
0 20 40 80

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MAINLINE PLAN

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 13-003

6/20/2011 GPLN

5/26/2015 4:38:41 PM	GPLOT-V8	P:\1528\1277\WORKING FILES\DGN\343455_14-001.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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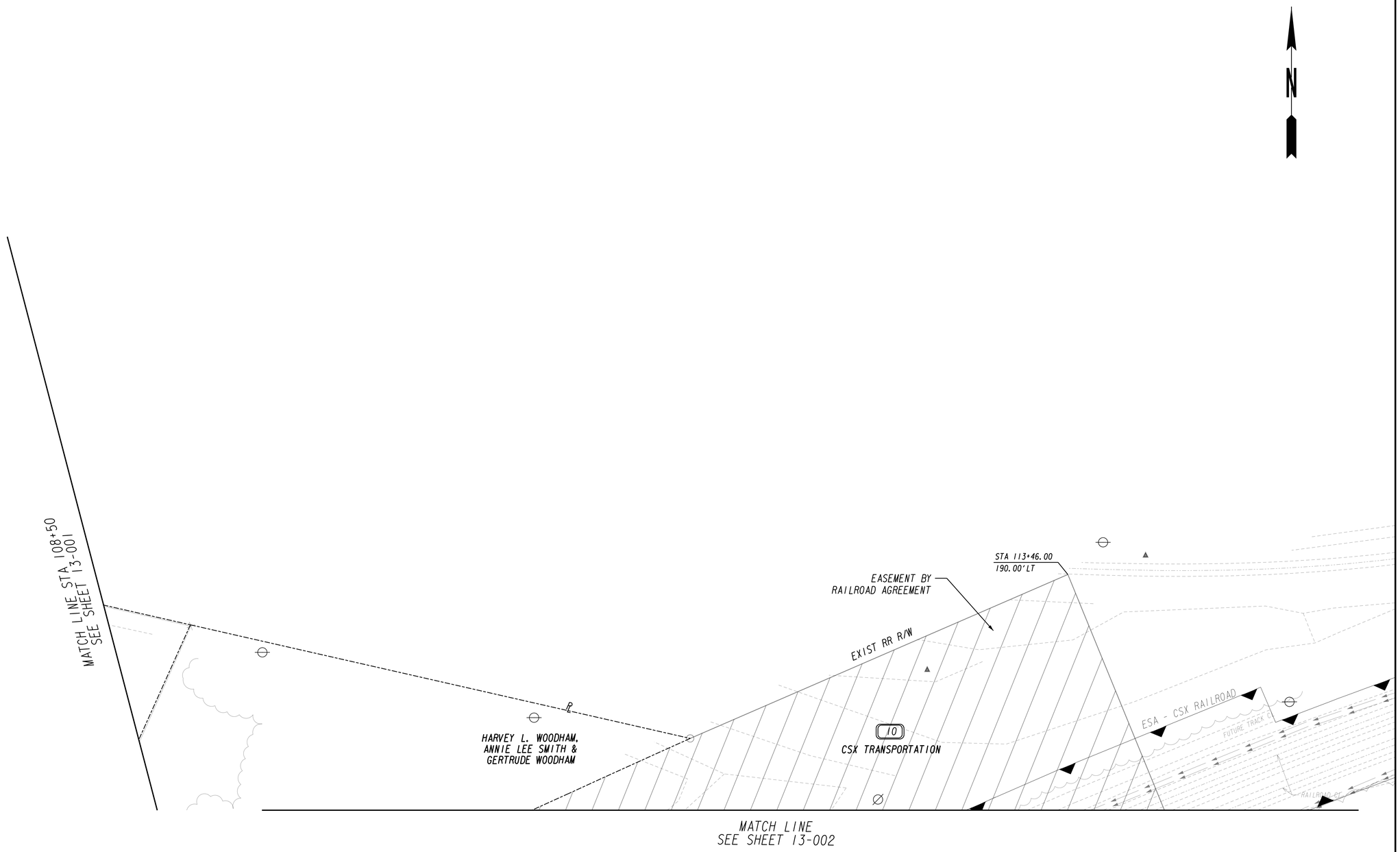

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

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SCALE IN FEET
0 20 40 80

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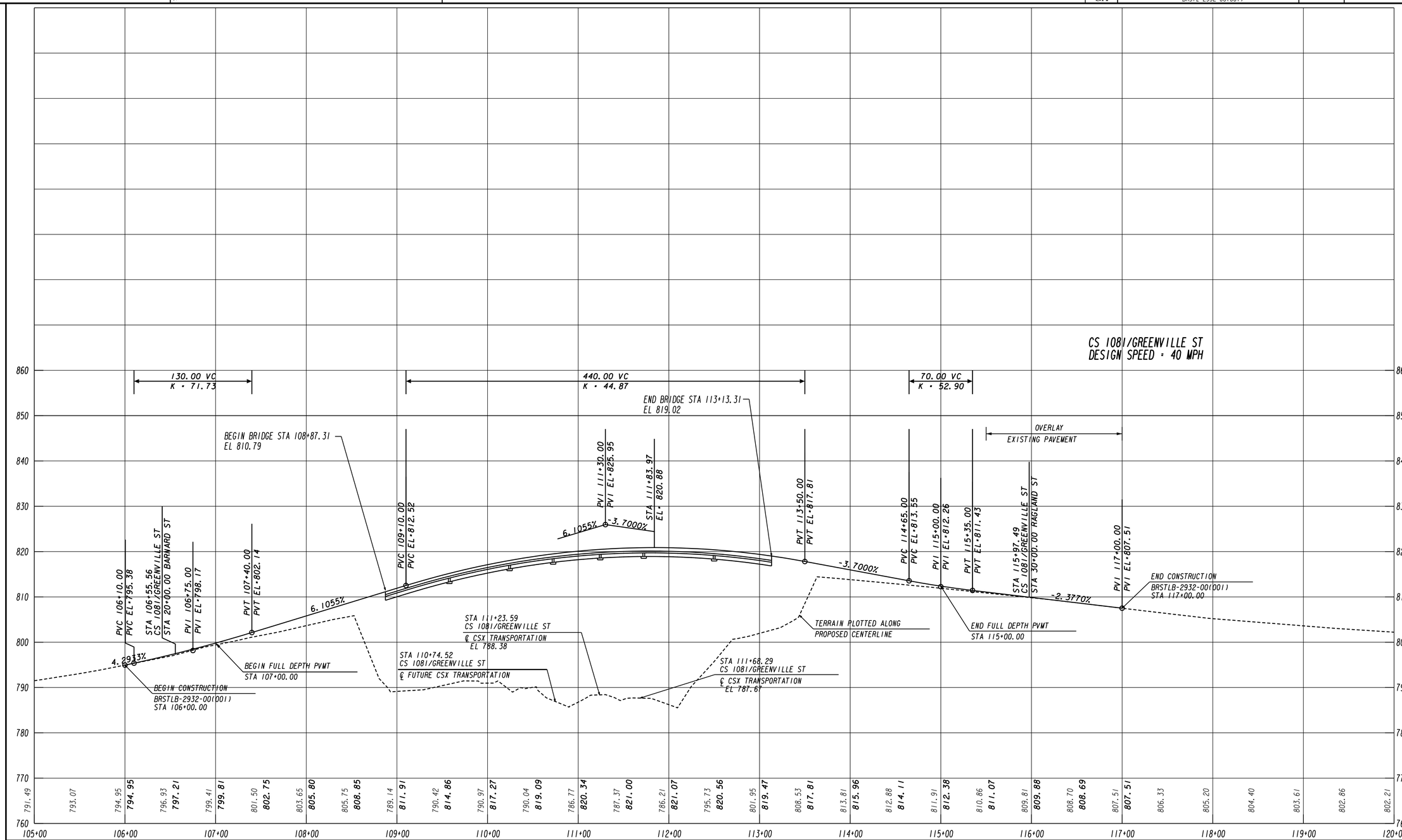
CROSSROAD PLAN

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 14-001

6/20/2011 GPLN



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SCALE: 1"=50' HORIZ.
1"=10' VERT.

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STATE OF GEORGIA
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MAINLINE PROFILE

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 15-001

5/20/2011 G20EDG

5/26/2015 4:41:03 PM	GPLOT-V8	P:\1528\1277\WORKING FILES\DGN\343455_16.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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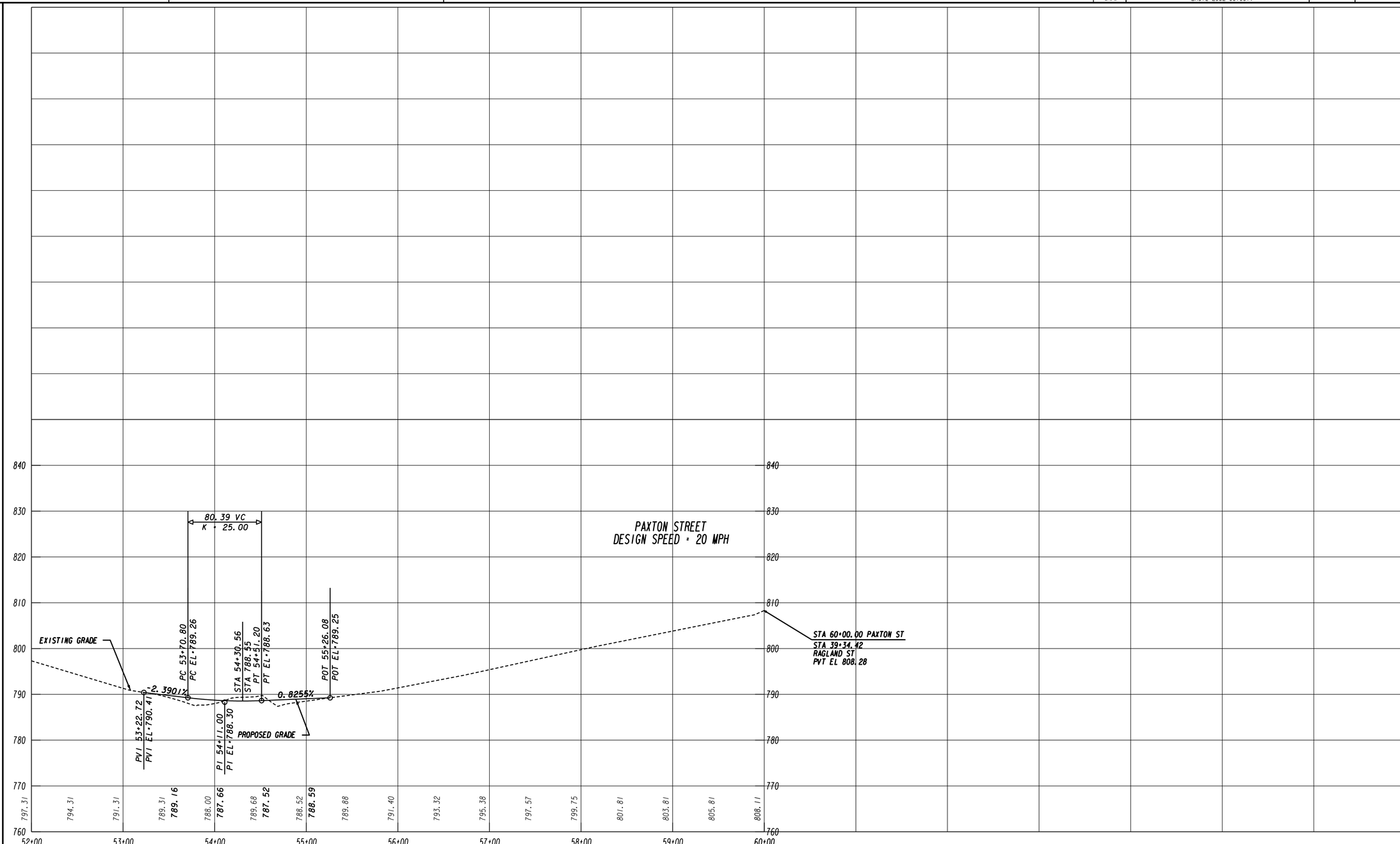

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SCALE: 1"=50' HORIZ.
1"=10' VERT.

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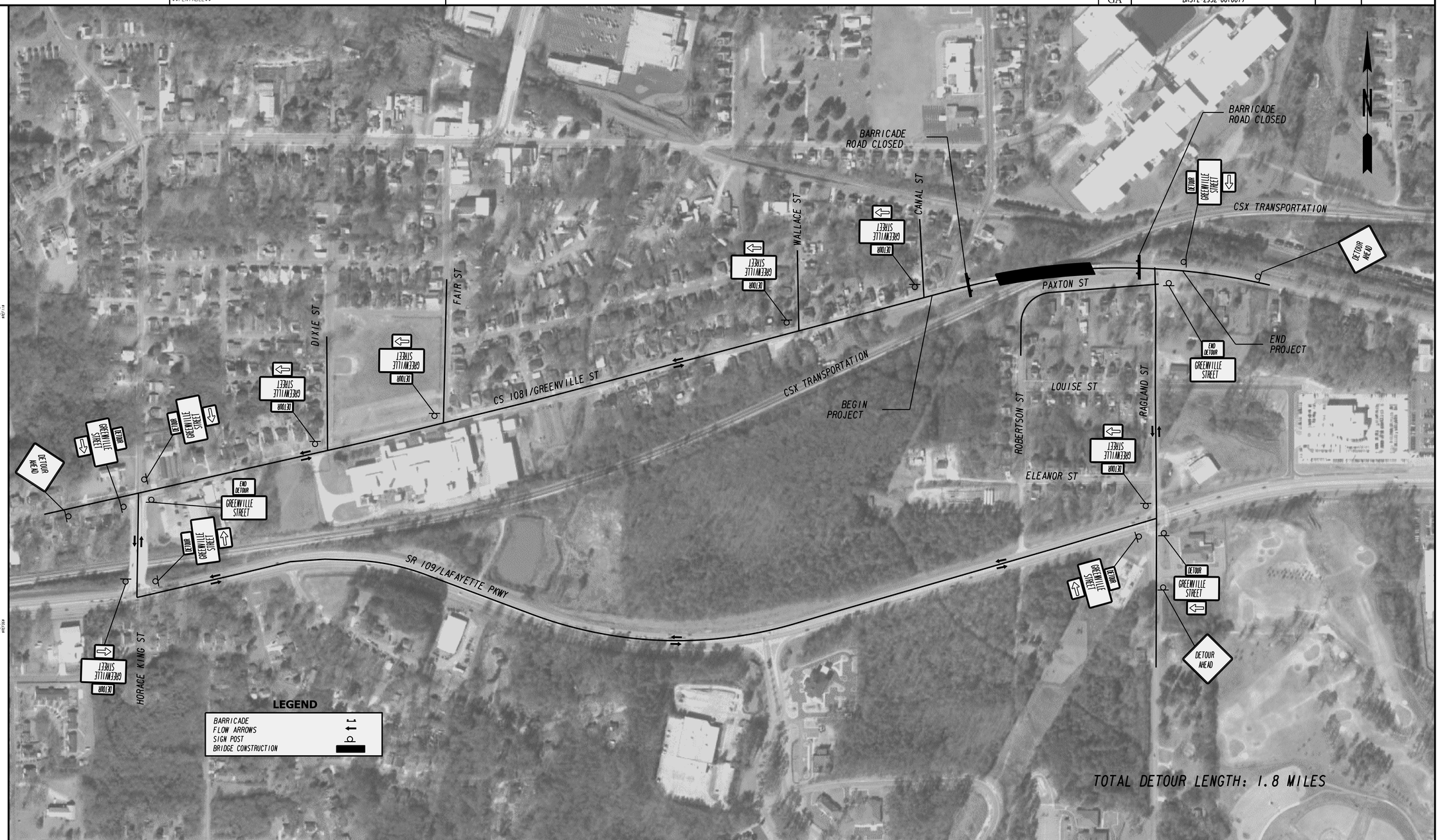
CROSSROAD PROFILE

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 16-001

5/20/2011 G20EDG

DATE$$$	TIME$$$	PRF	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	BRSTL-2932-001(011)		



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

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SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
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OFFICE: PROGRAM DELIVERY

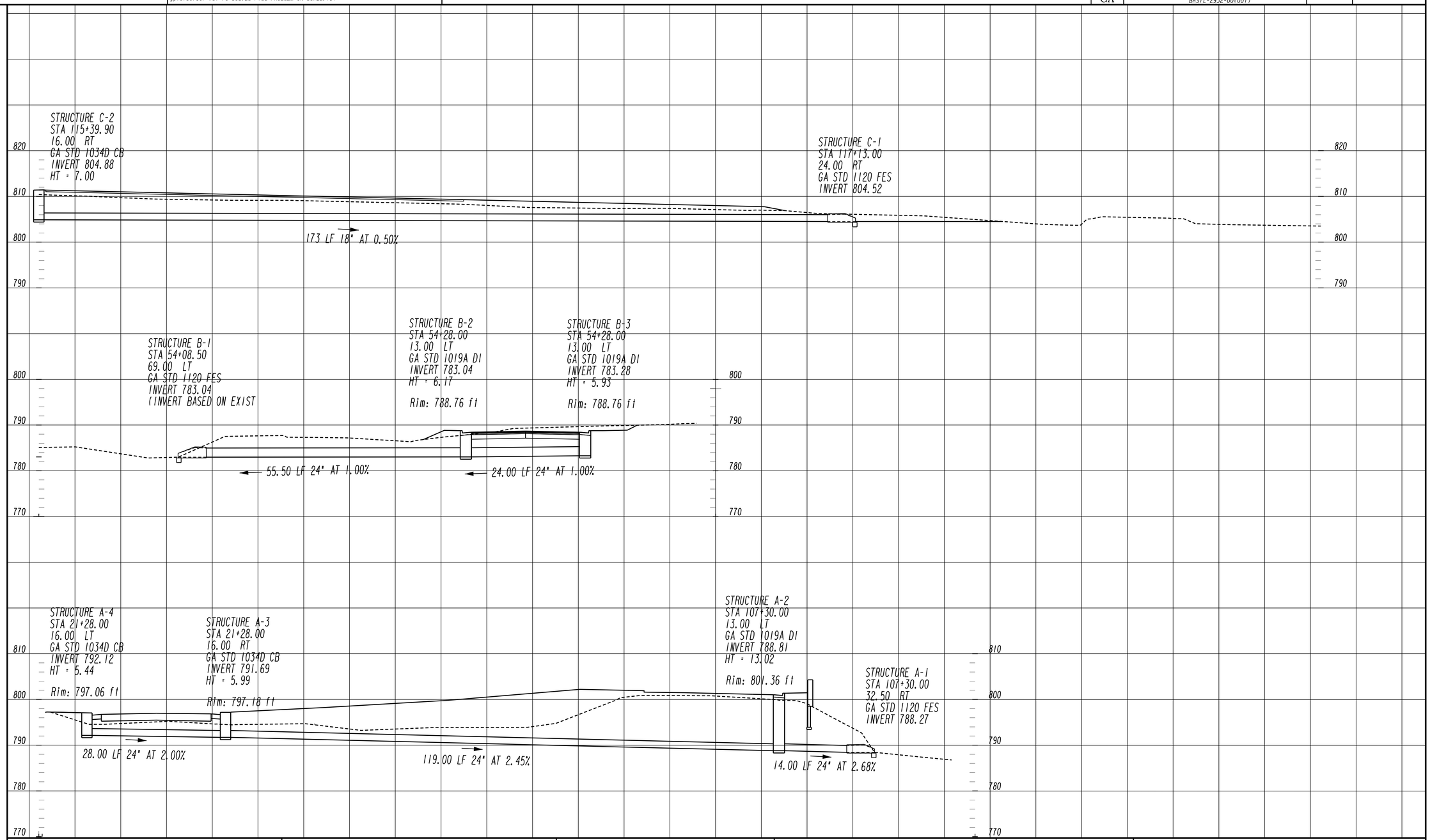
STAGING DETOUR MAP

CS 1081/GREENVILLE ST. @ CSX RR

DRAWING No. 19-001

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

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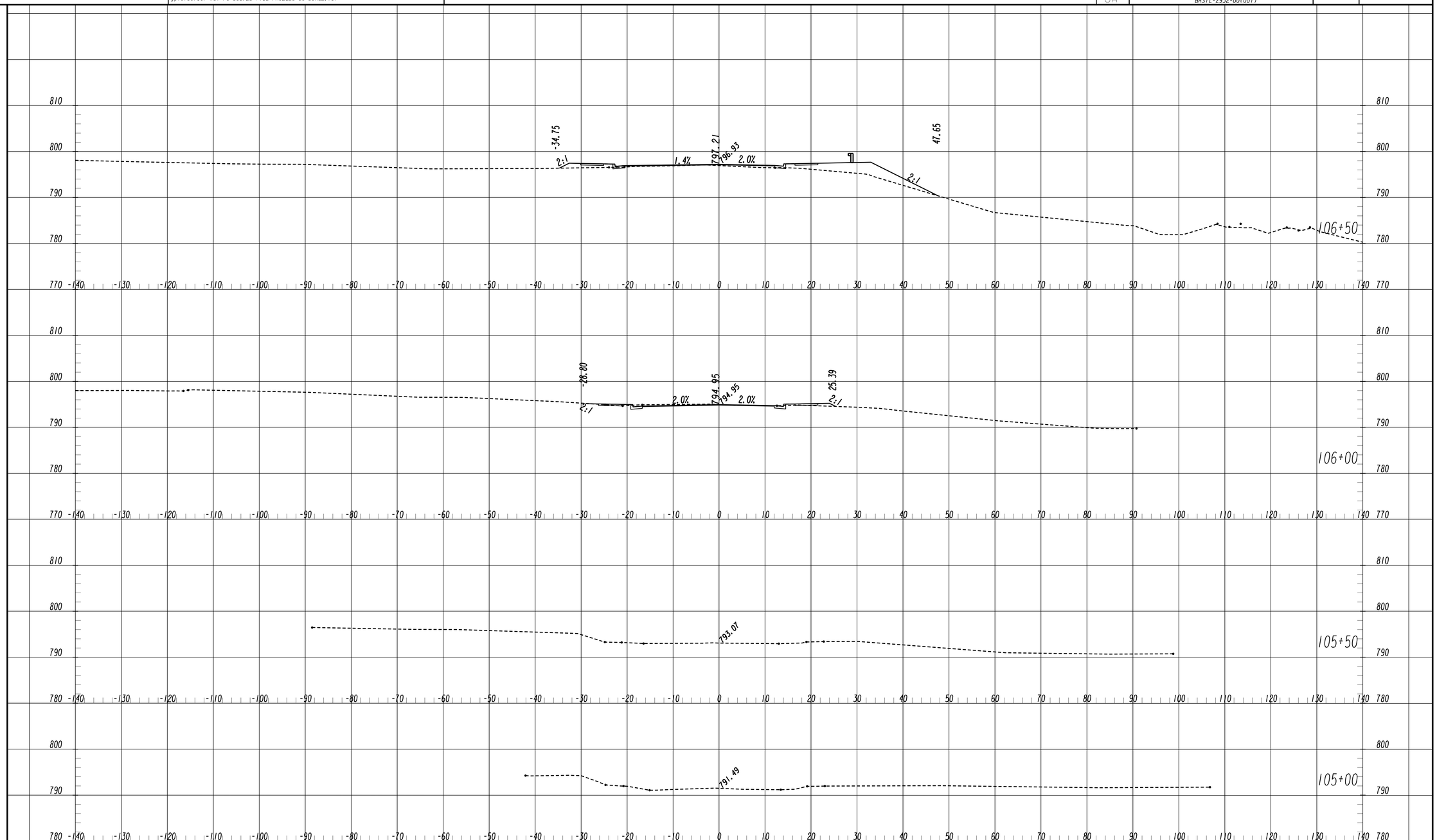
DRAINAGE PROFILES

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 22-001

5/20/2011 SUXSEW

5/26/2015 5:16:10 PM	GPLOT-V8	P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
USER:amanda_Summers	gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl		GA	BRSTL-2932-001(001)		



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

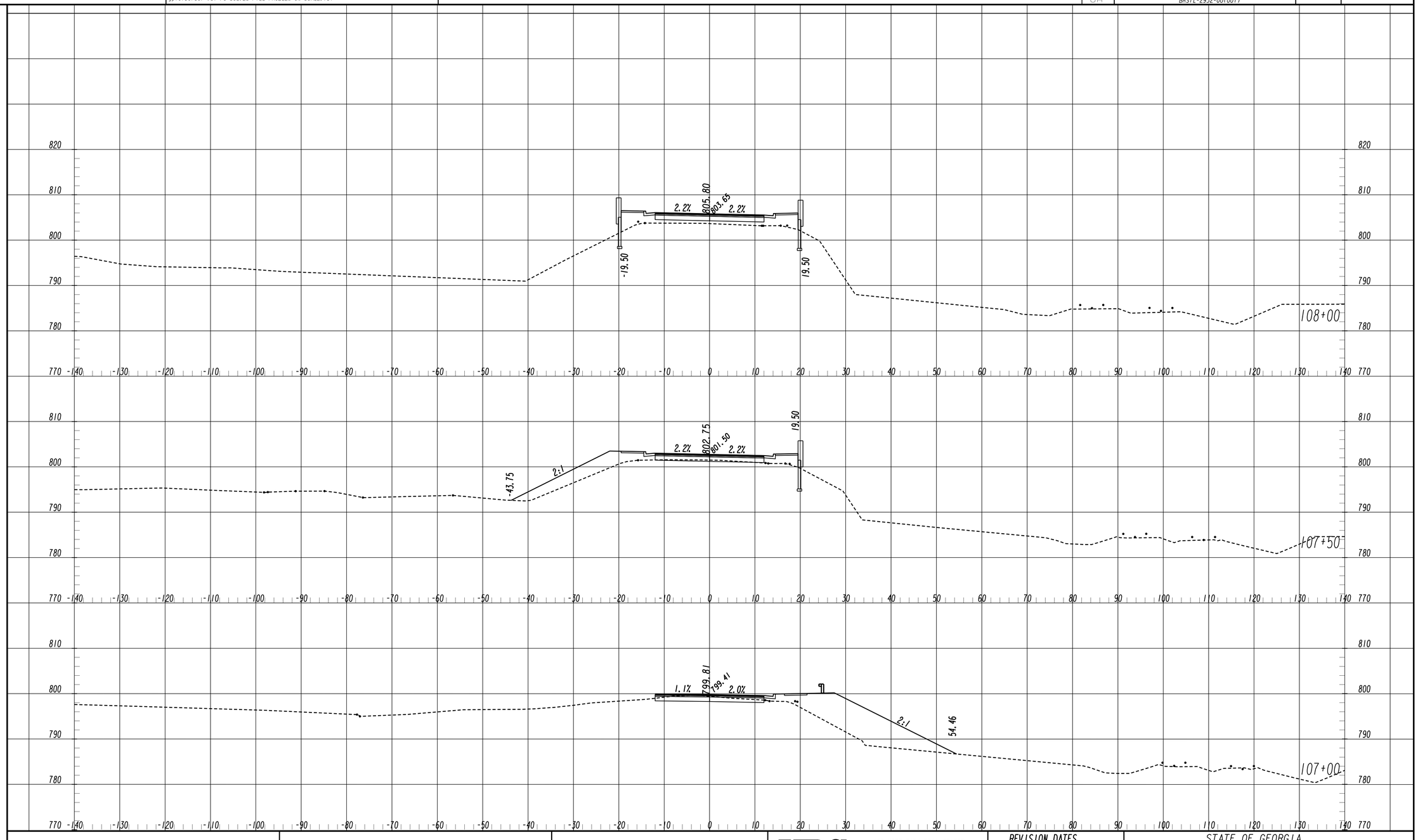
CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-001

5/20/2011 SUXSEW

5/26/2015 5:16:15 PM	GPLOT-V8	P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
USER:amanda_Summers	gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl		GA	BRSTL-2932-001(001)		



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1000 ABERNATHY ROAD, N.E., SUITE 900
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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-002

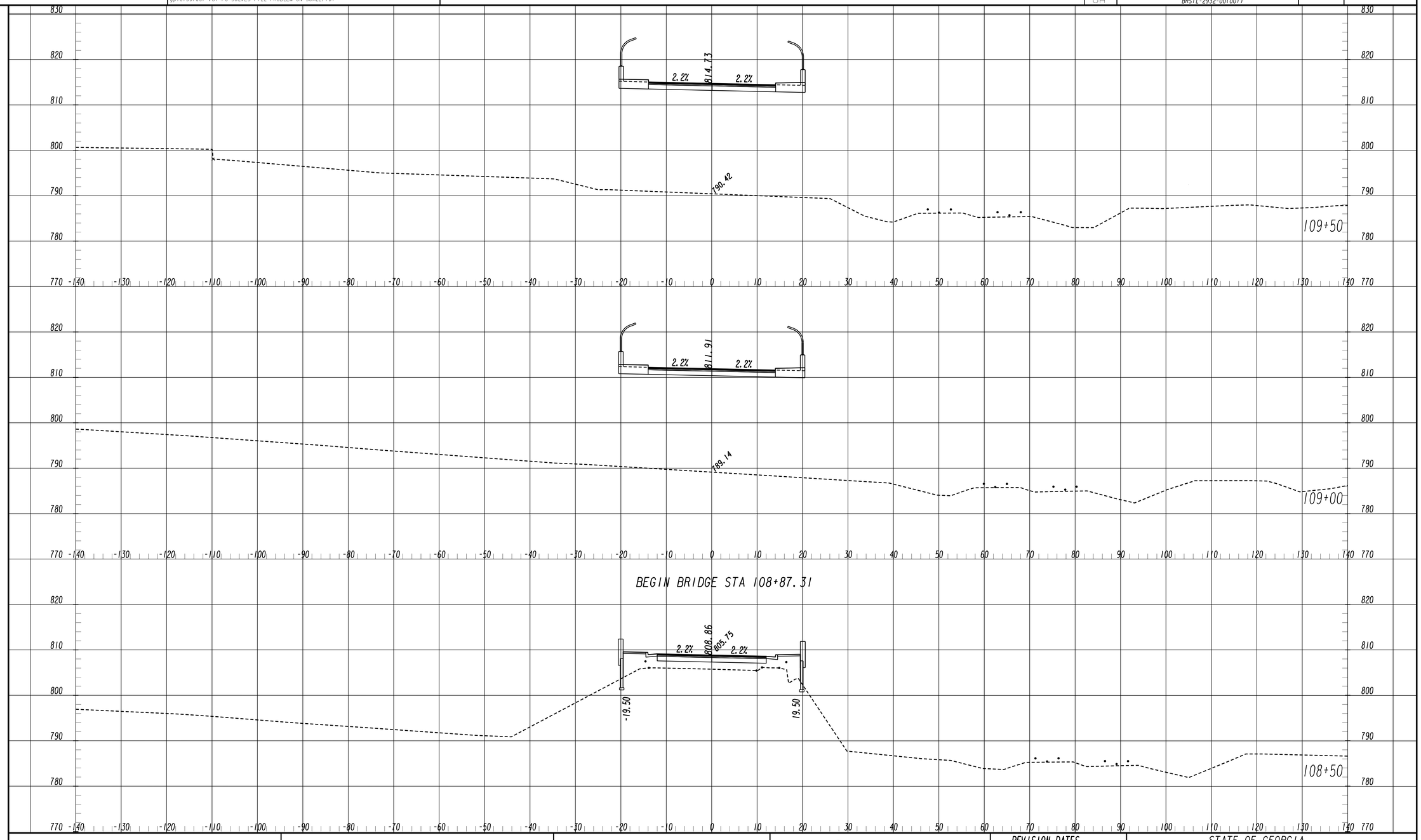
5/20/2011 SUXSEW

5/26/2015 5:16:20 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-003

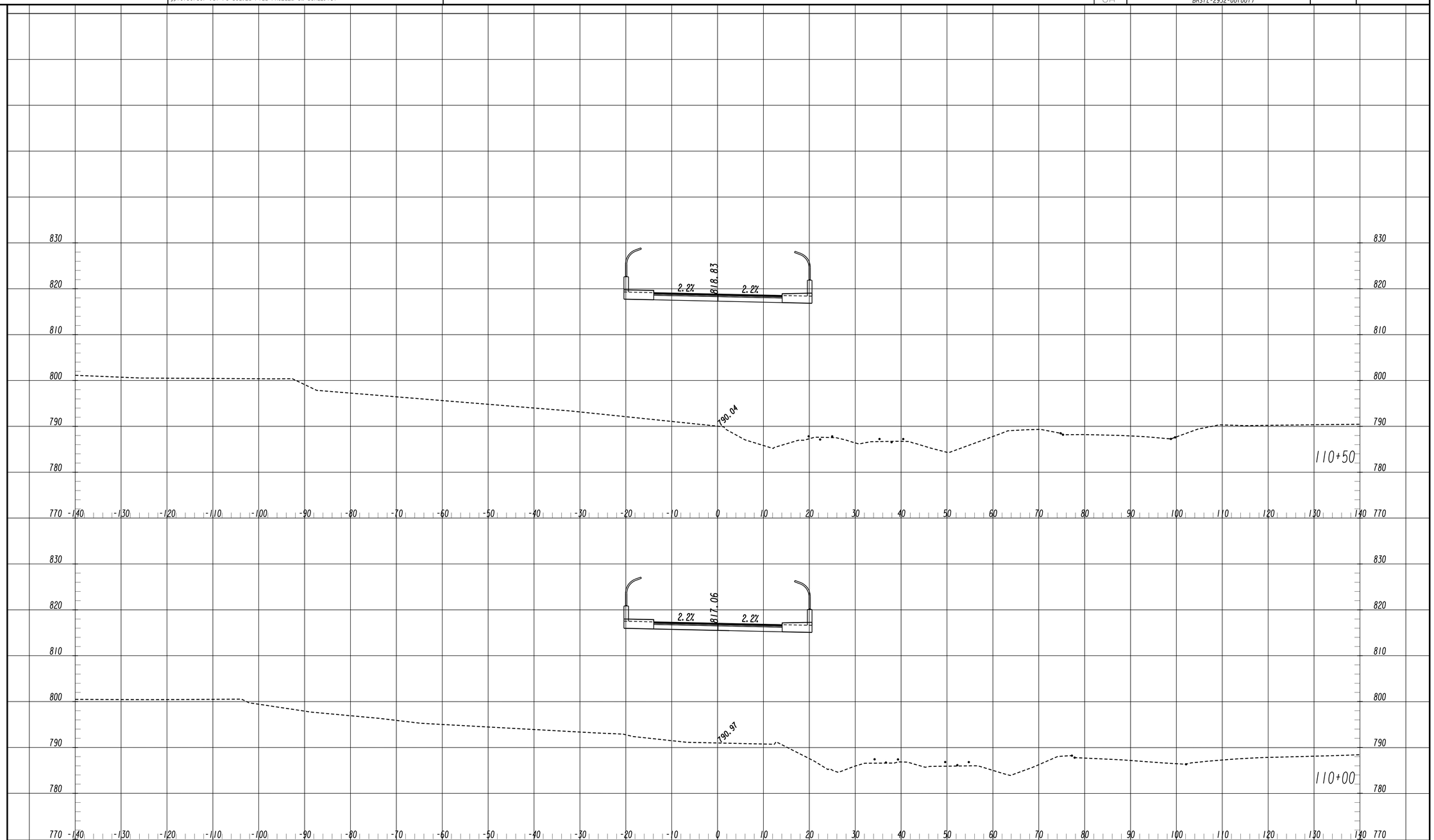
5/20/2011 SUXSEW

5/26/2015 5:16:25 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-004

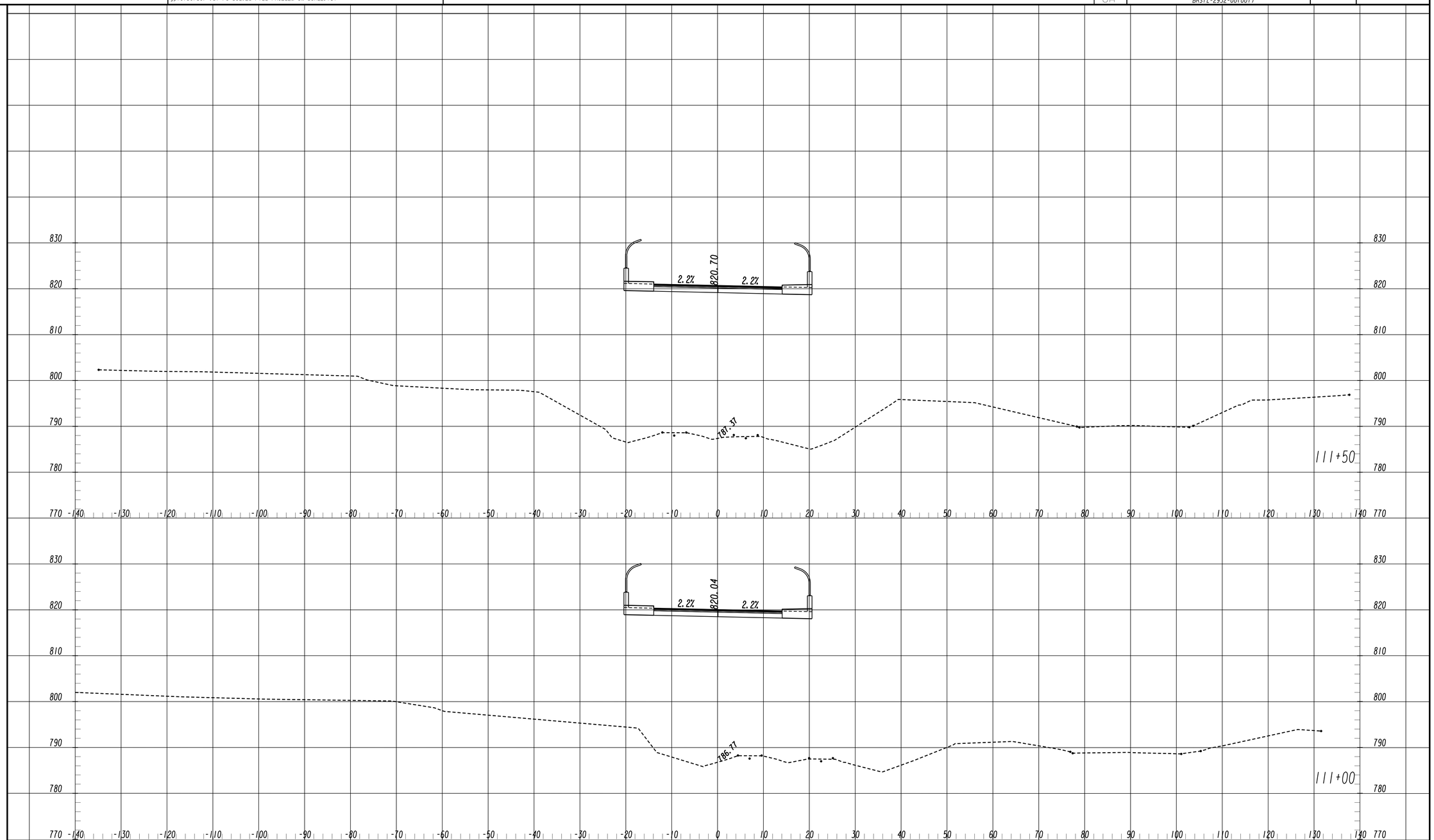
5/20/2011 SUXSEW

5/26/2015 5:16:31 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-005

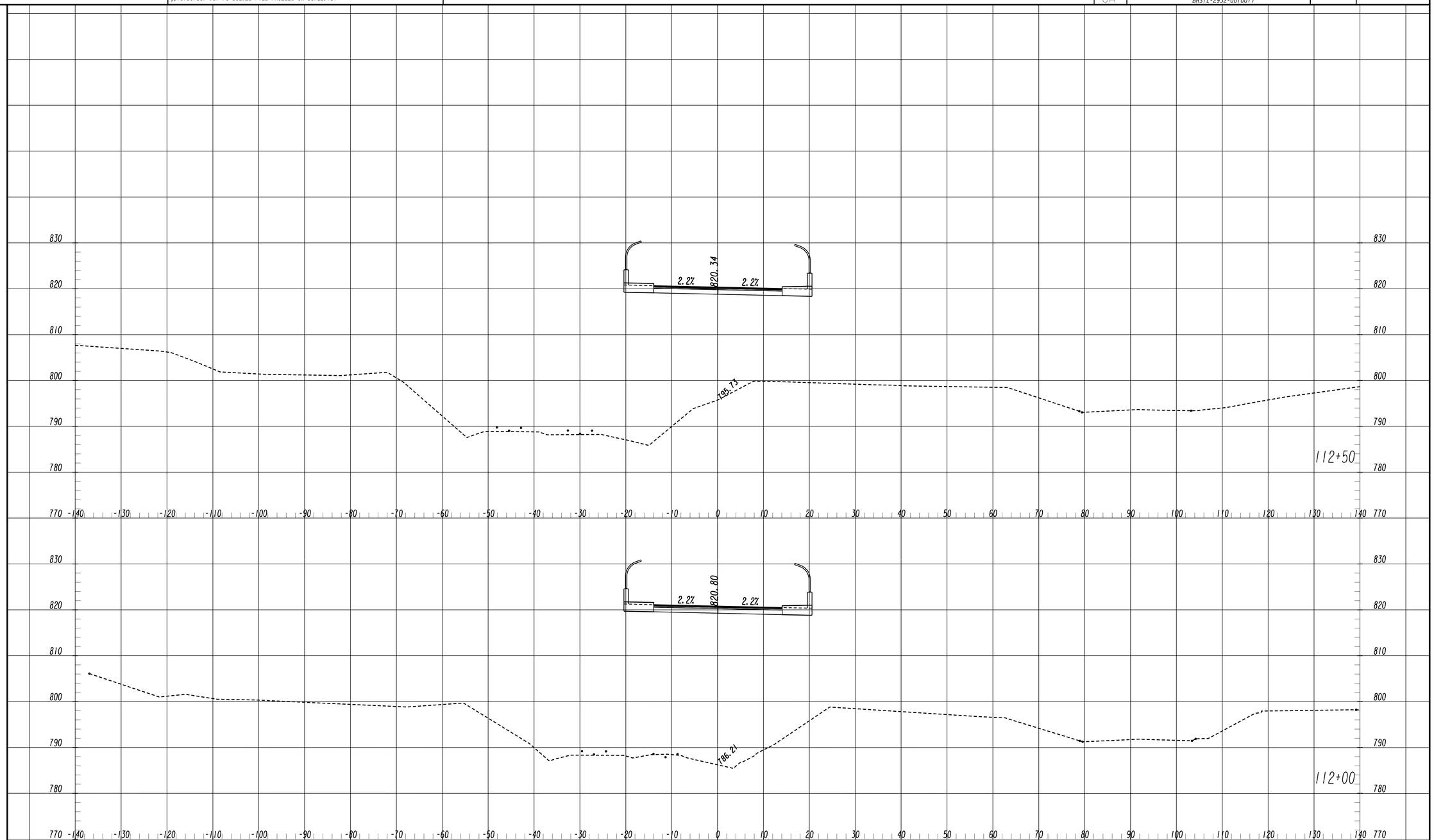
5/20/2011 SUXSEW

5/26/2015 5:16:57 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-006

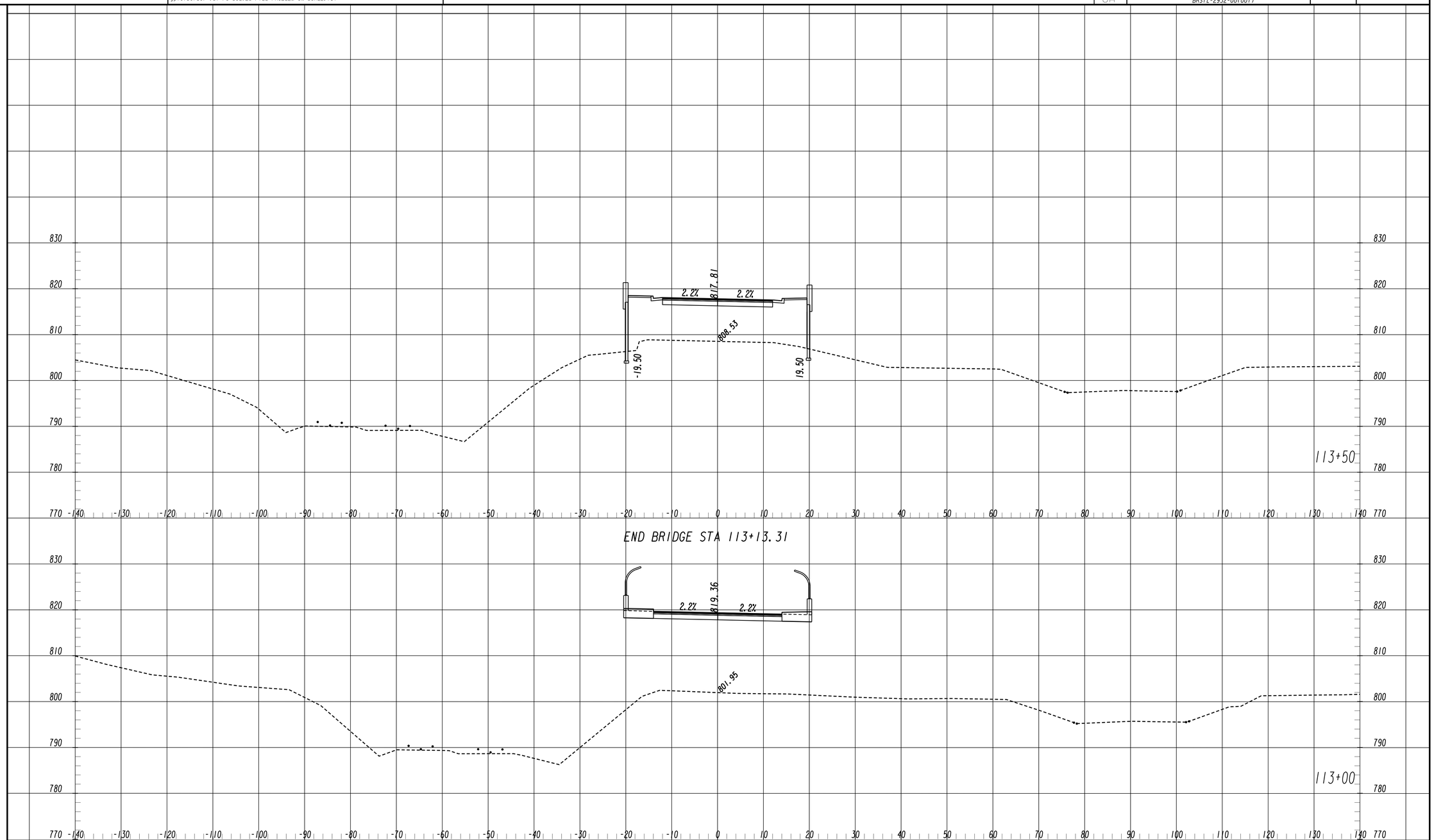
5/20/2011 SUXSEW

5/26/2015 5:16:52 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-007

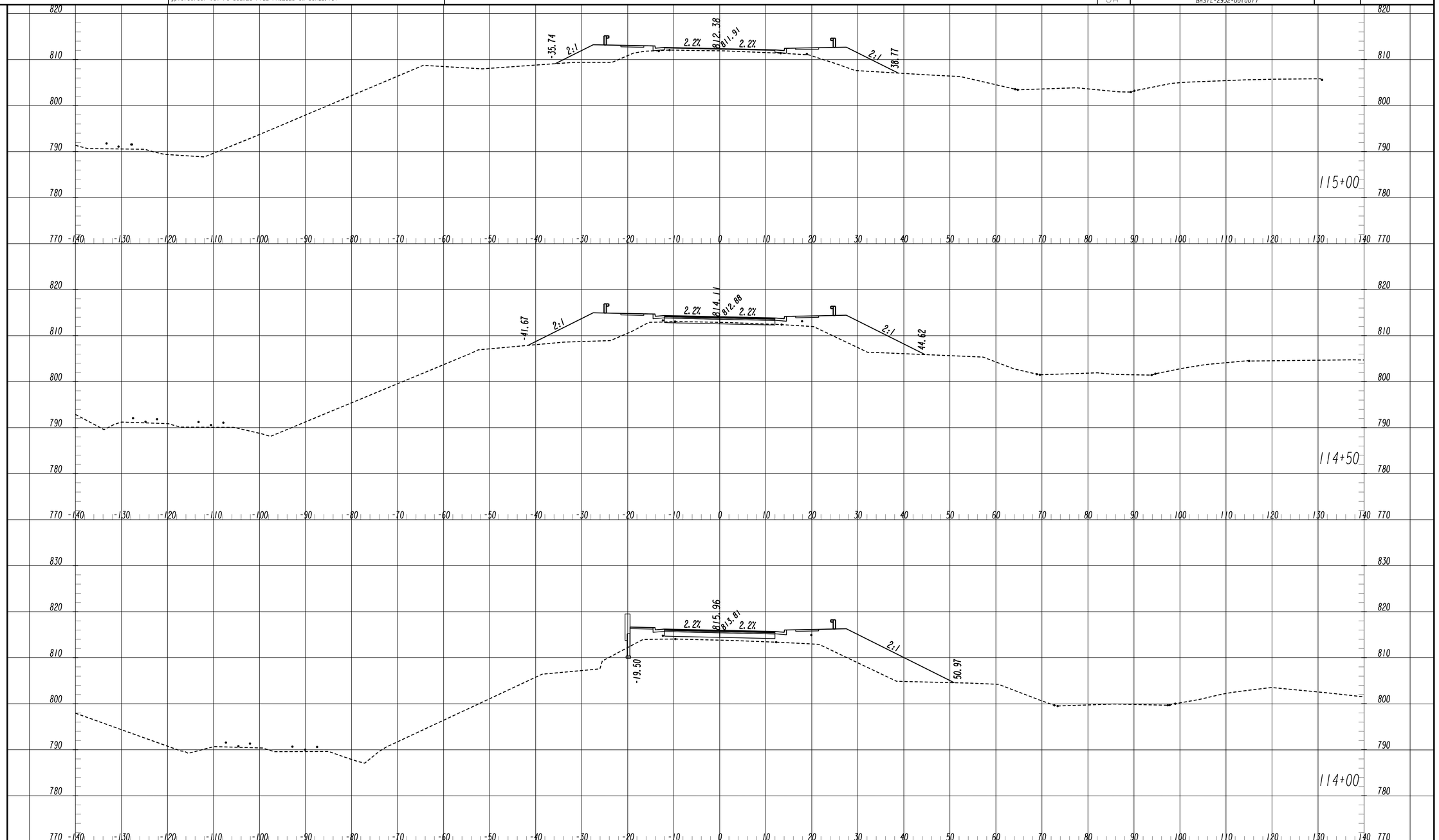
5/20/2011 SUXSEW

5/26/2015 5:16:47 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

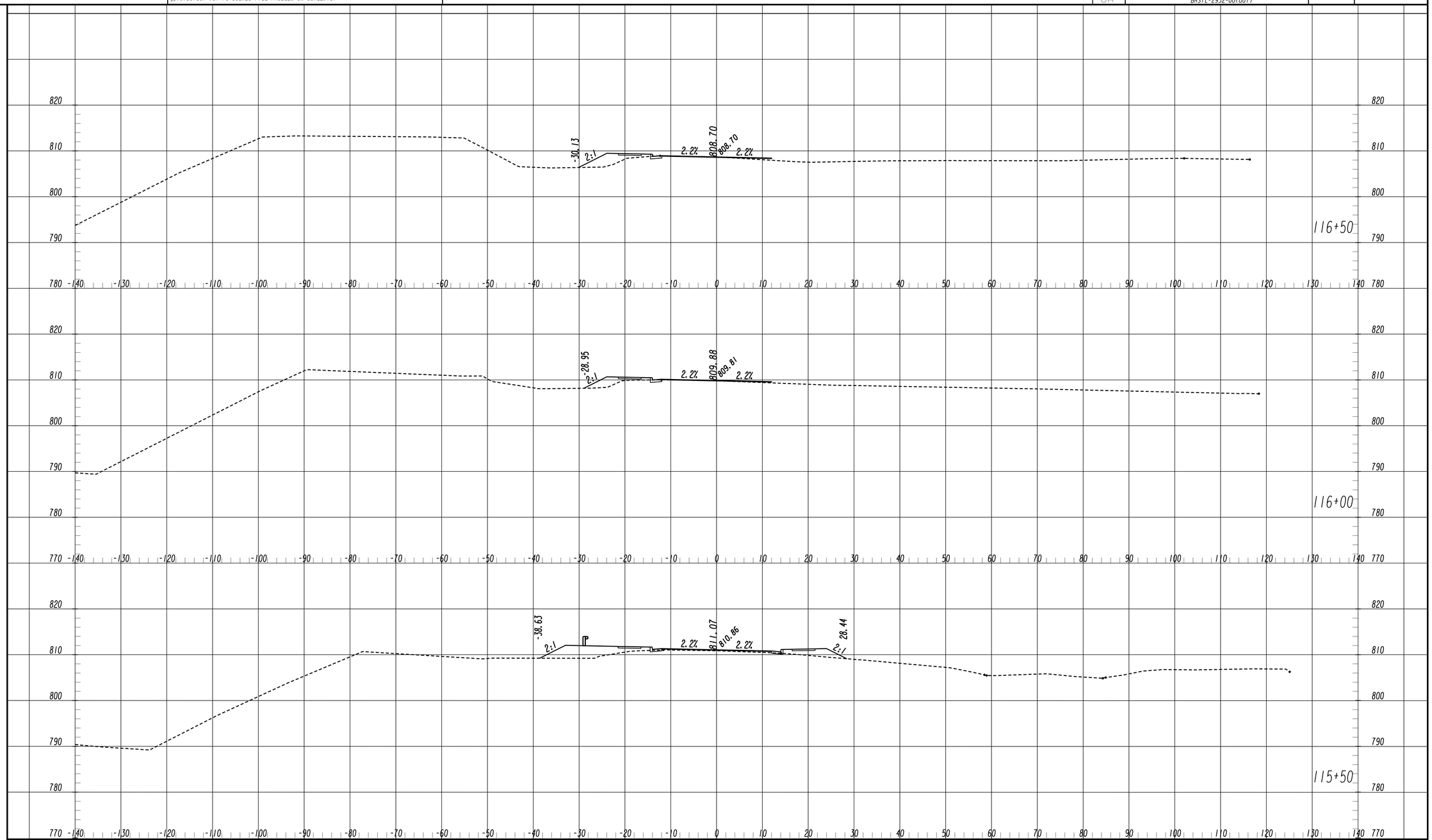
CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-008

5/20/2011 SUXSEW

5/26/2015 5:16:41 PM	GPLOT-V8	P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
USER:amanda_Summers	gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl		GA	BRSTL-2932-001(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
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CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-009

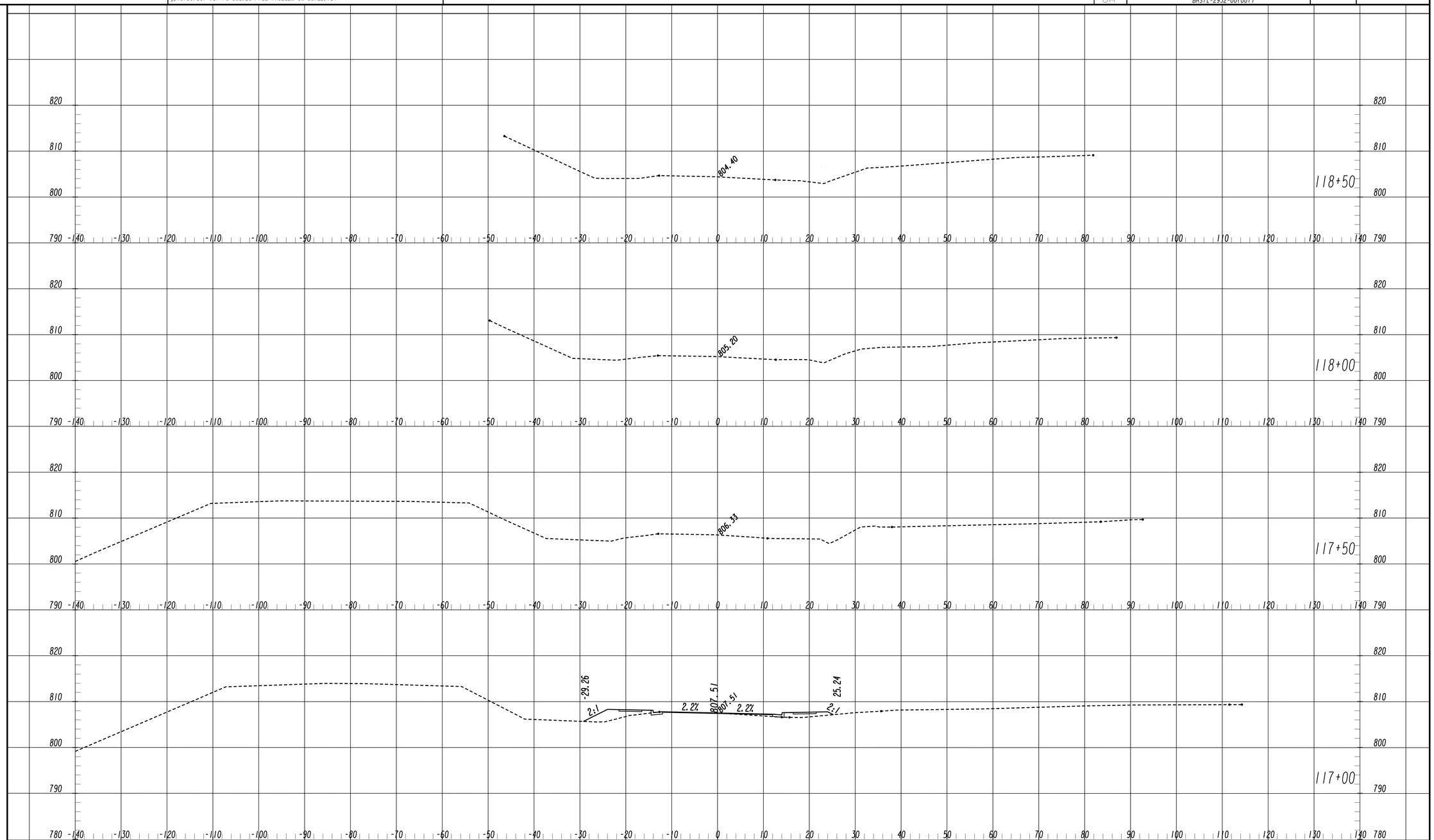
5/20/2011 SUXSEW

5/26/2015 5:16:36 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 GREENVILLE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

CROSS SECTIONS

GREENVILLE ST
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
23-010

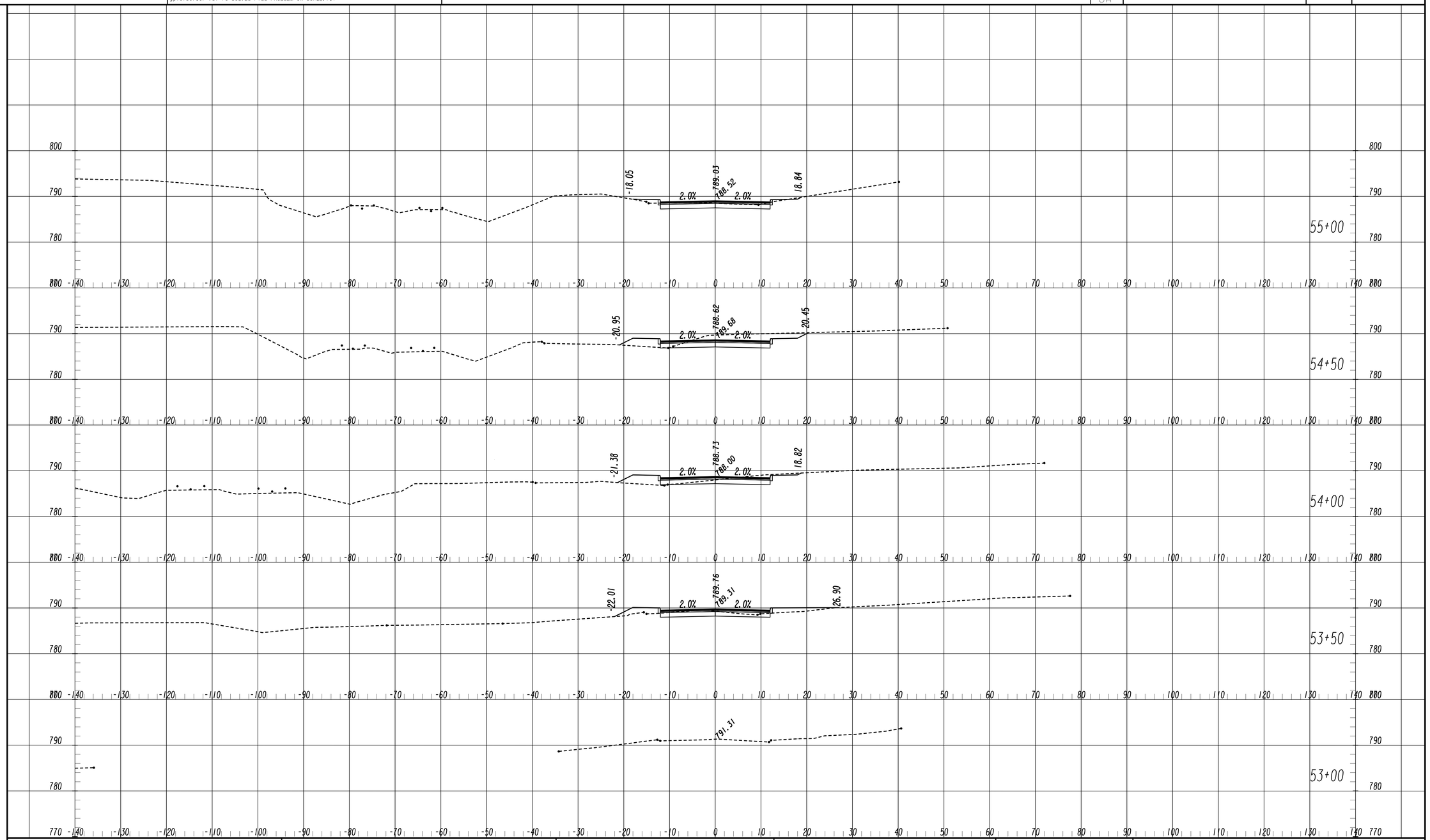
5/20/2011 SUXSEW

5/26/2015 5:17:13 PM
USER:amanda_Summers

GPLOT-V8
gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl

P:\1528\1277\WORKING FILES\DGN\343455_23 SIDE STREETS.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

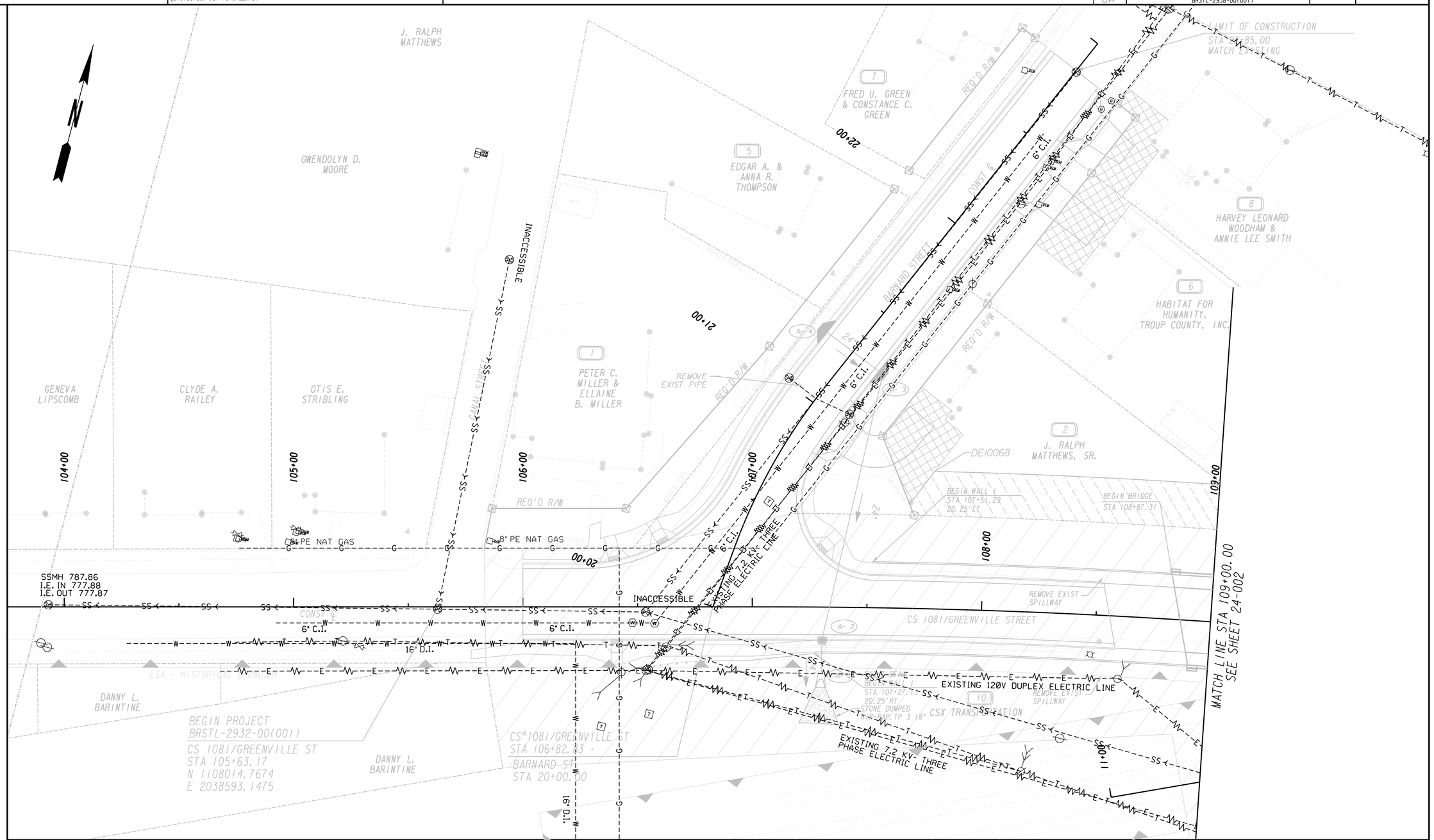
CROSS SECTIONS

PAXTON STREET

DRAWING No.
23-011

5/20/2011 SUXSEW

5/26/2015 5:24:46 PM USER:amanda_Summers	GPLOT-V8 gplotborder-V8I-PO-UTLE.tbl	P:\1528\1277\WORKING FILES\DGN\343455_24-001.dgn	STATE GA	PROJECT NUMBER BRSTL-2938-0010011	SHEET NO.	TOTAL SHEETS



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
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

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

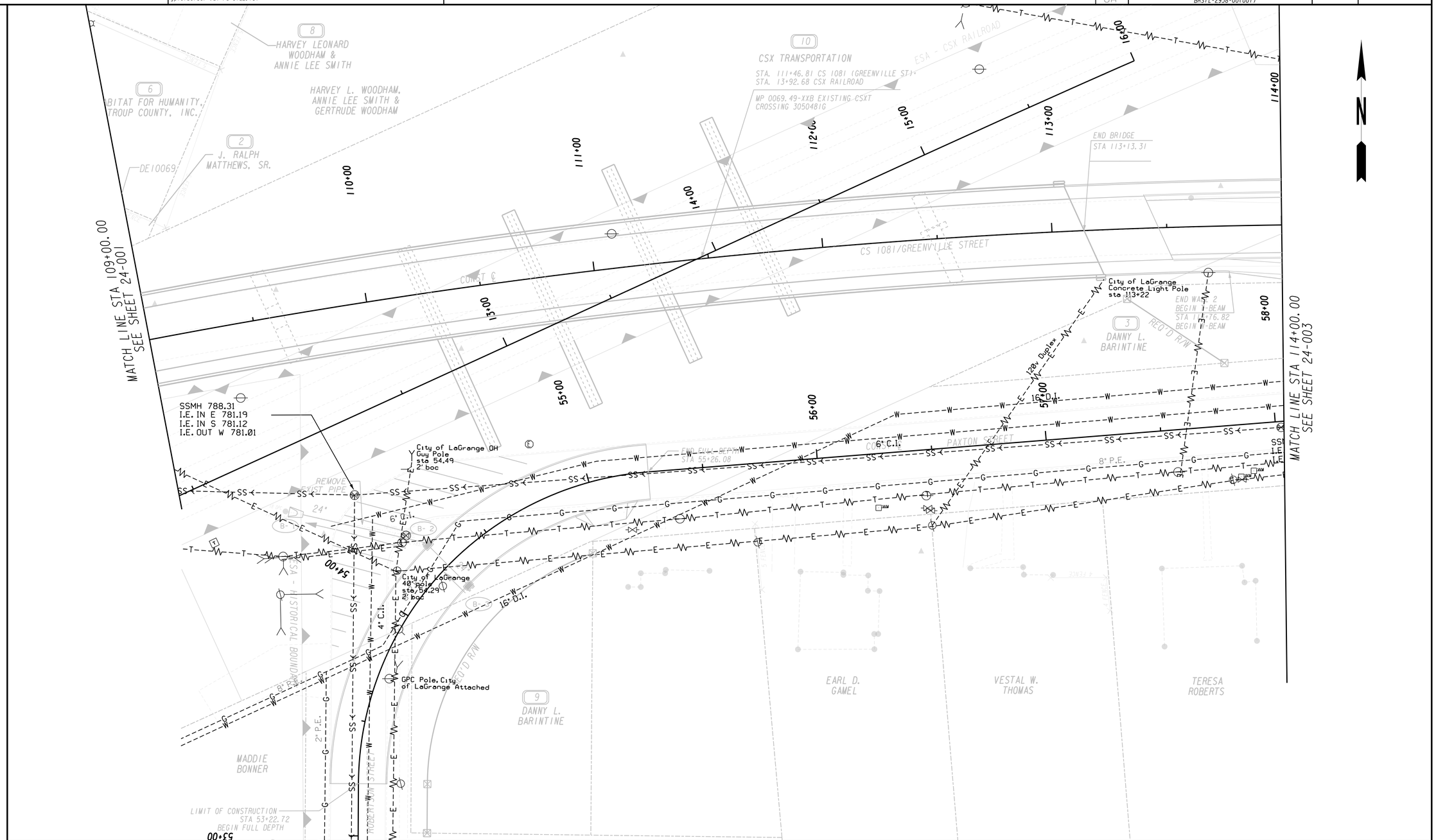
UTILITY PLANS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 24-001

6/20/2011 GPLN

5/26/2015 5:24:59 PM USER:amanda_Summers	GPLOT-V8 gplotborder-V8I-PO-UTLE.tbl	P:\1528\1277\WORKING FILES\DGN\343455_24-002.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	BRSTL-2938-00(001)		



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

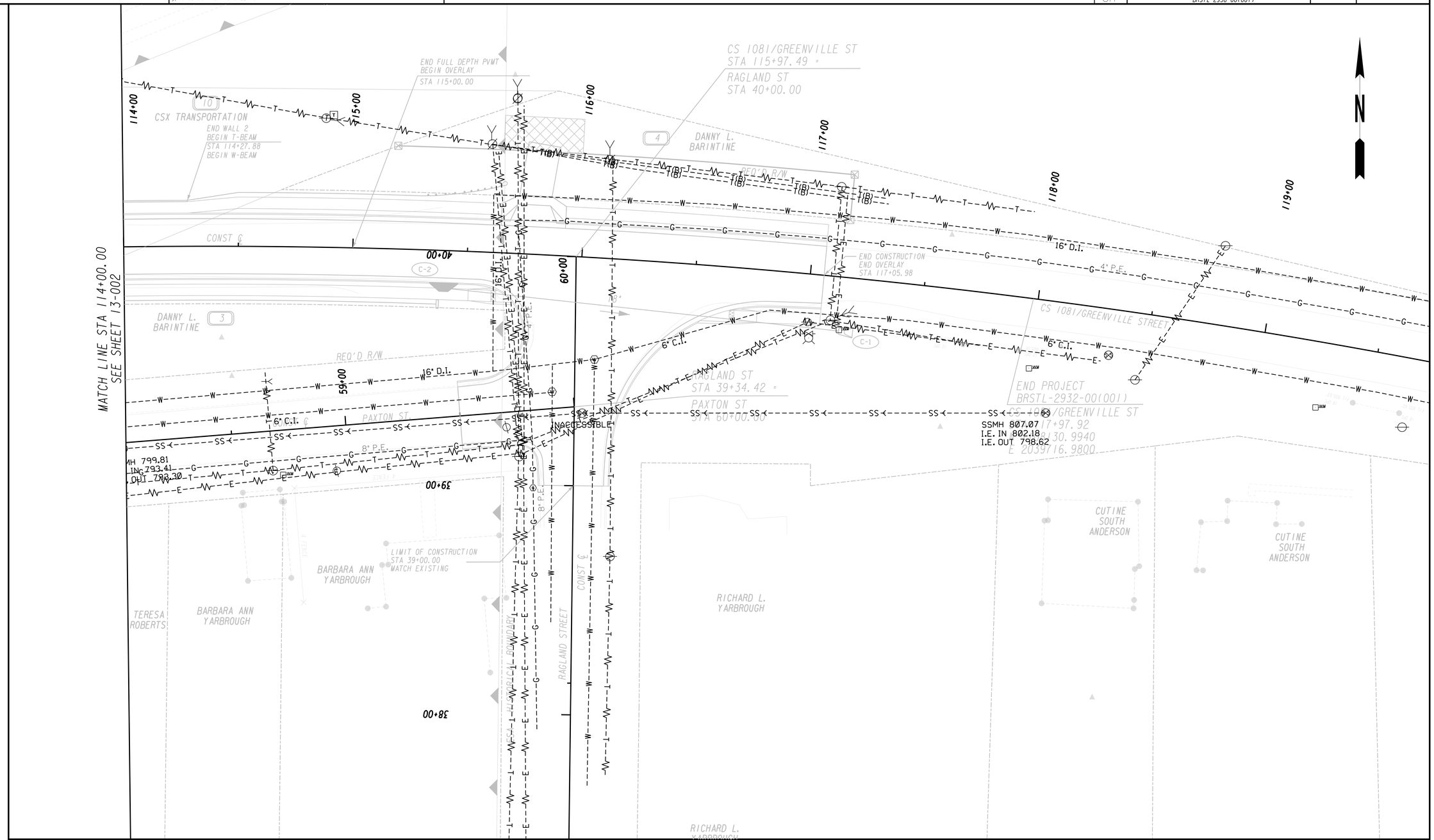
UTILITY PLANS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 24-002

6/20/2011 GPLN

5/26/2015	5:25:12 PM	GPLOT-V8	P:\1528\1277\WORKING FILES\DGN\343455_24-003.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
USER:amanda_Summers		gplotborder-V8I-PO-UTLE.tbl		GA	BRSTL-2938-00(001)		



PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA	GEORGIA DEPARTMENT OF TRANSPORTATION	URS 400 NORTHPARK TOWN CENTER 1000 ABERNATHY ROAD, N.E., SUITE 900 ATLANTA, GEORGIA 30328 TEL: (678) 808-8800 FAX: (678) 808-8400
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA		SCALE IN FEET 0 20 40 80
CONSTRUCTION LIMITS	LIMIT OF ACCESS		
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS		
EASEMENT FOR CONSTR OF SLOPES			
EASEMENT FOR CONSTR OF DRIVES			

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

UTILITY PLANS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 24-003

6/20/2011 GPLN

5/26/2015 5:25:26 PM USER:amanda_Summers	GPLOT-V8 gplotborder-V8I-PO-SM.tbl	P:\1528\1277\WORKING FILES\DGN\343455_26-001.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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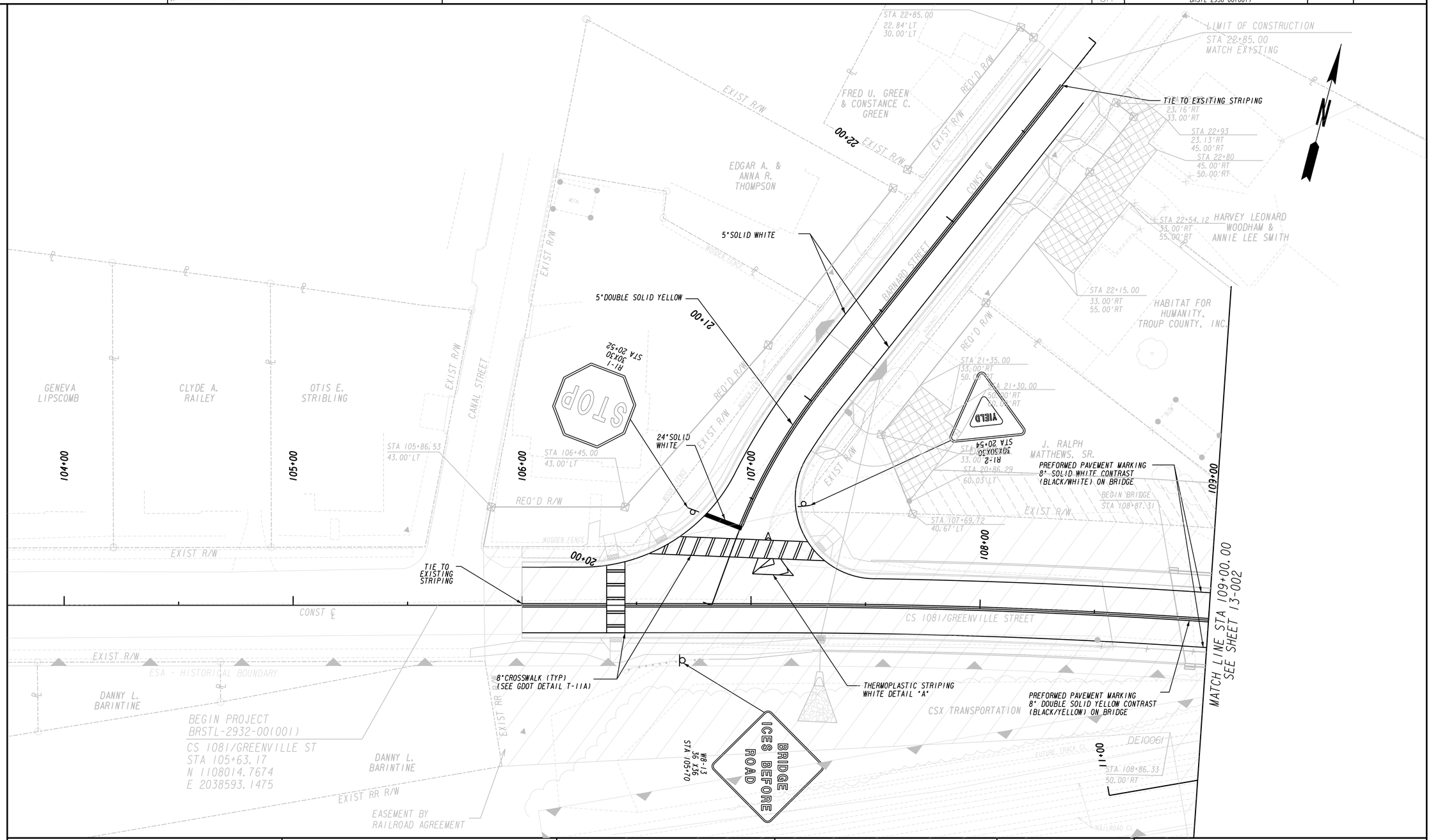

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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

GEORGIA DEPARTMENT OF TRANSPORTATION

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SCALE IN FEET
0 20 40 80

REVISION DATES

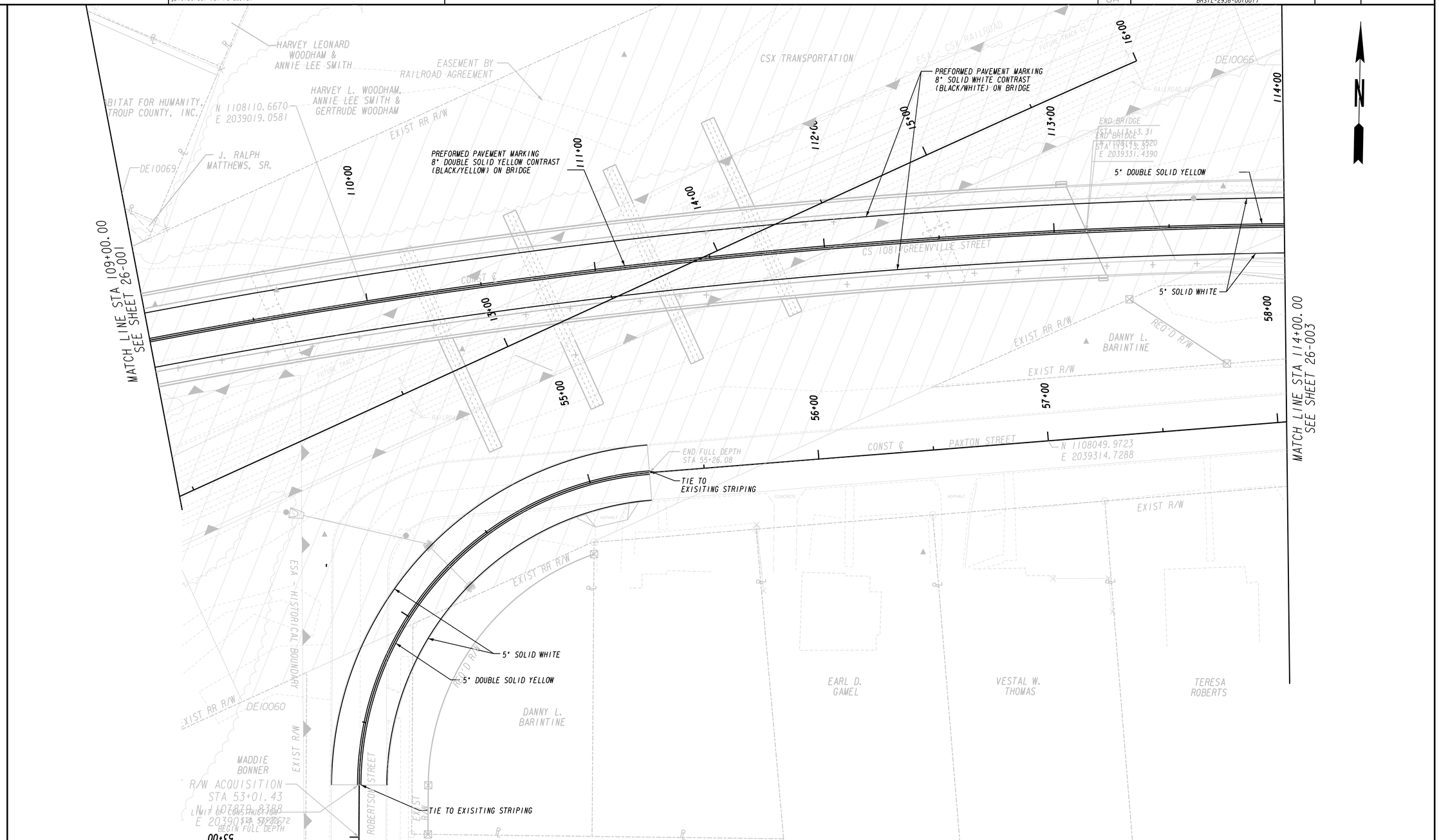
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

SIGNING AND MARKING PLANS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 26-001

6/20/2011 GPLN



PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	C F
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

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SCALE IN FEET
0 20 40 80

REVISION DATES

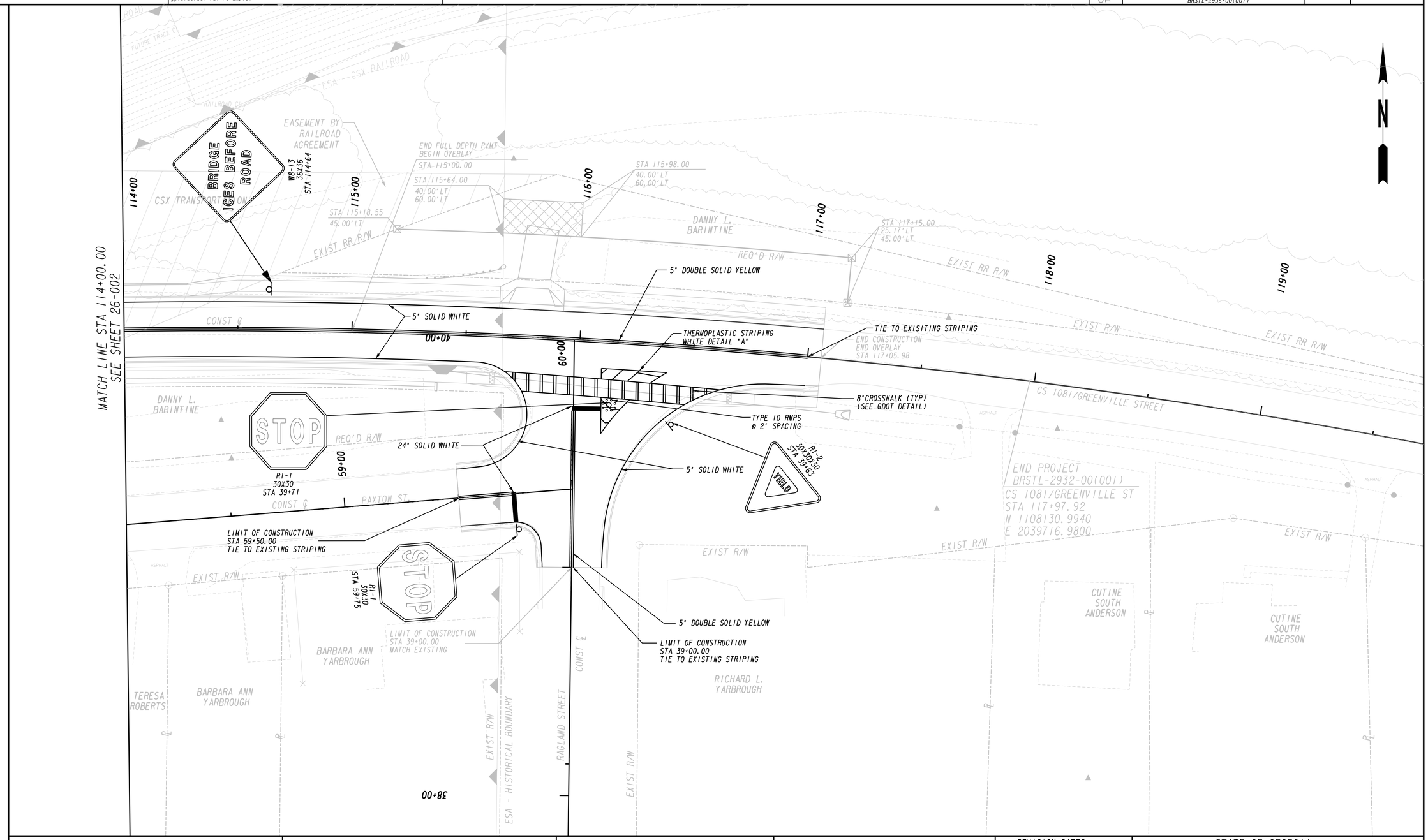
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

SIGNING AND MARKING PLANS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 26-002

5/26/2015 5:25:53 PM USER:amanda_Summers	GPLOT-V8 gplotborder-V8I-PO-SM.tbl	P:\1528\1277\WORKING FILES\DGN\343455_26-003.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	BRSTL-2938-00(001)		



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

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0 20 40 80

REVISION DATES

STATE OF GEORGIA
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OFFICE: PROGRAM DELIVERY

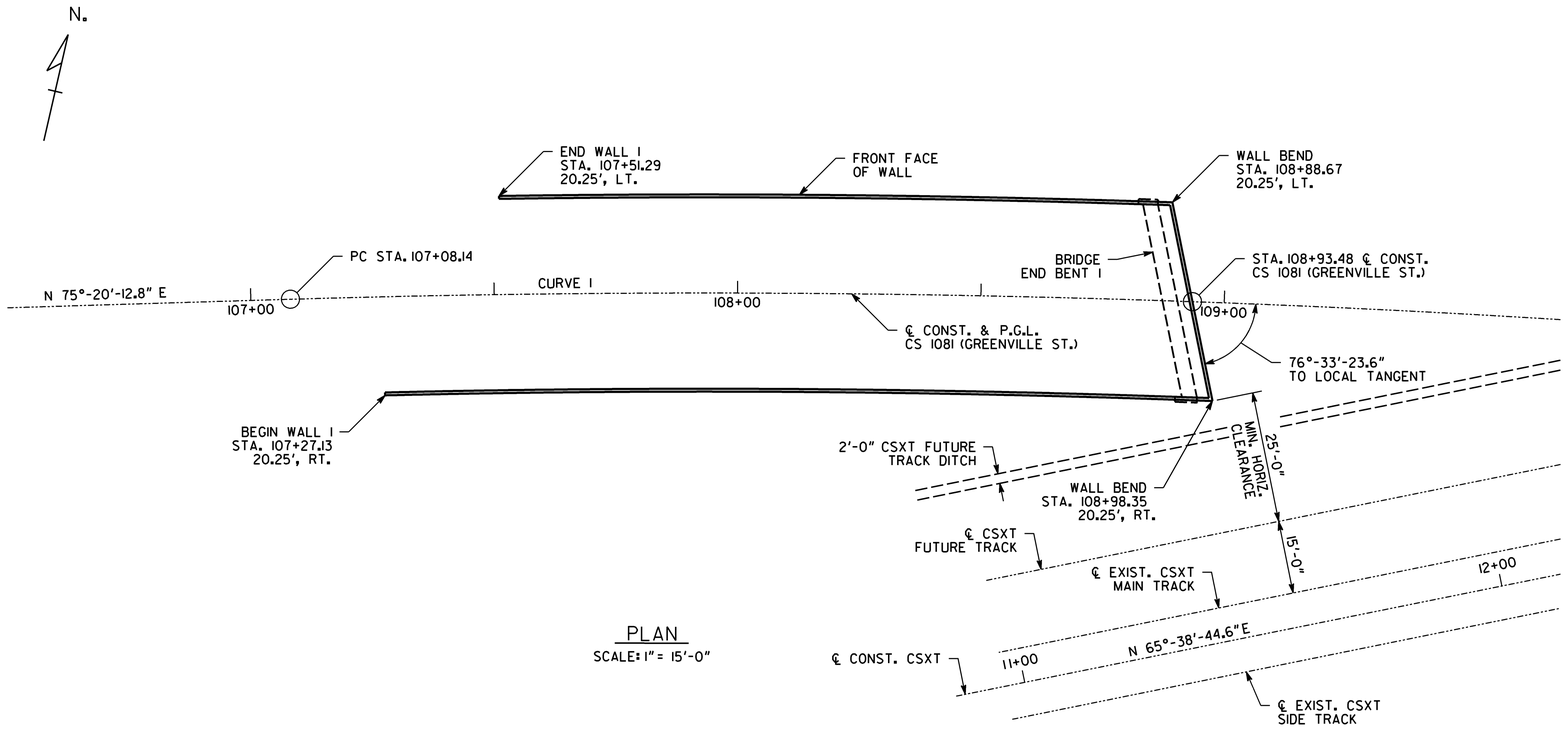
SIGNING AND MARKING PLANS

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 26-003

6/20/2011 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSTL-2932-00(001)		



PLAN
SCALE: 1" = 15'-0"

PVI STA. 111+30.00
EL. 825.95

6.1055% -3.7000%

440.00 FT. V.C.

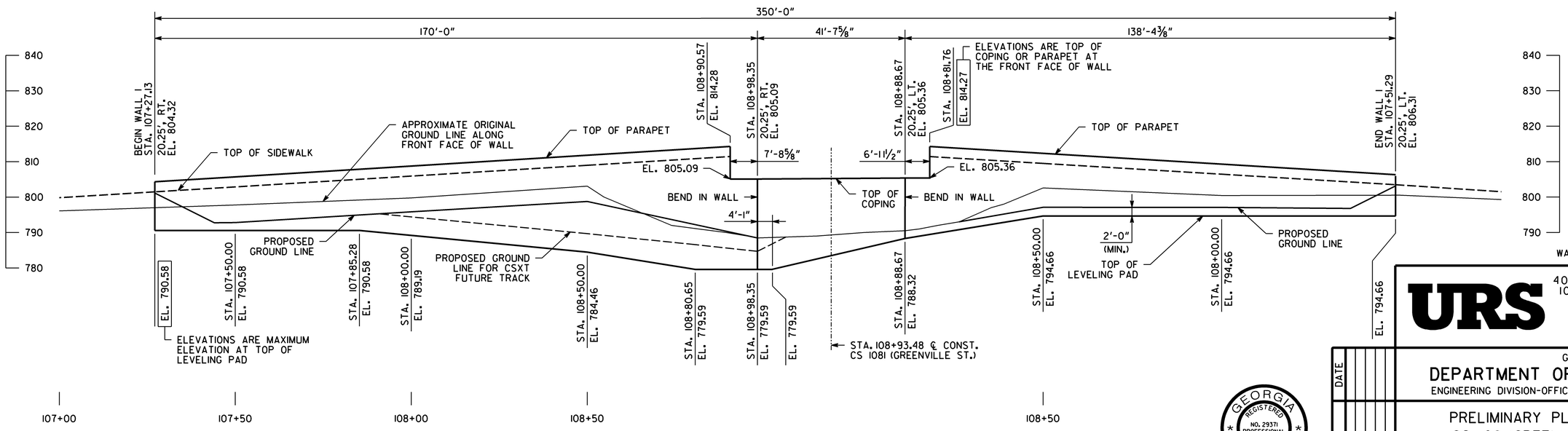
VERTICAL CURVE DATA
CS 1081

P.I. STA. = 114+10.39
Δ = 27°-52'-20.2"
D = 2°-01'-28.5"
T = 702.25 FT.
L = 1376.69 FT.
R = 2830.00 FT.
S.E. = 2.20%

HORIZONTAL CURVE DATA
CURVE 1

NOTE:

STATIONS AND OFFSETS SHOWN ARE RADIAL DIMENSIONS MEASURED FROM ℄ CONST. CS 1081 (GREENVILLE ST.) TO FRONT FACE OF WALL.



ELEVATION
(LOOKING AT FRONT FACE OF WALL)
SCALE: 1" = 15'-0"

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY PLAN AND ELEVATION
CS 1081 (GREENVILLE STREET) OVER
CSX TRANSPORTATION
TROUP COUNTY BRSTL-2932-00(001)

GEORGIA REGISTERED NO. 29371 PROFESSIONAL ENGINEER R. SCOTT CAPLES

BY	REVISIONS	DATE

DRAWING NO. 32-01
WALL SHEET 1 OF 3

SCALE: 1" = 15'-0" DECEMBER 2014

DESIGNED GJM CHECKED RSC REVIEWED WMD/DLC
DRAWN GJM DESIGN GROUP EJC APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

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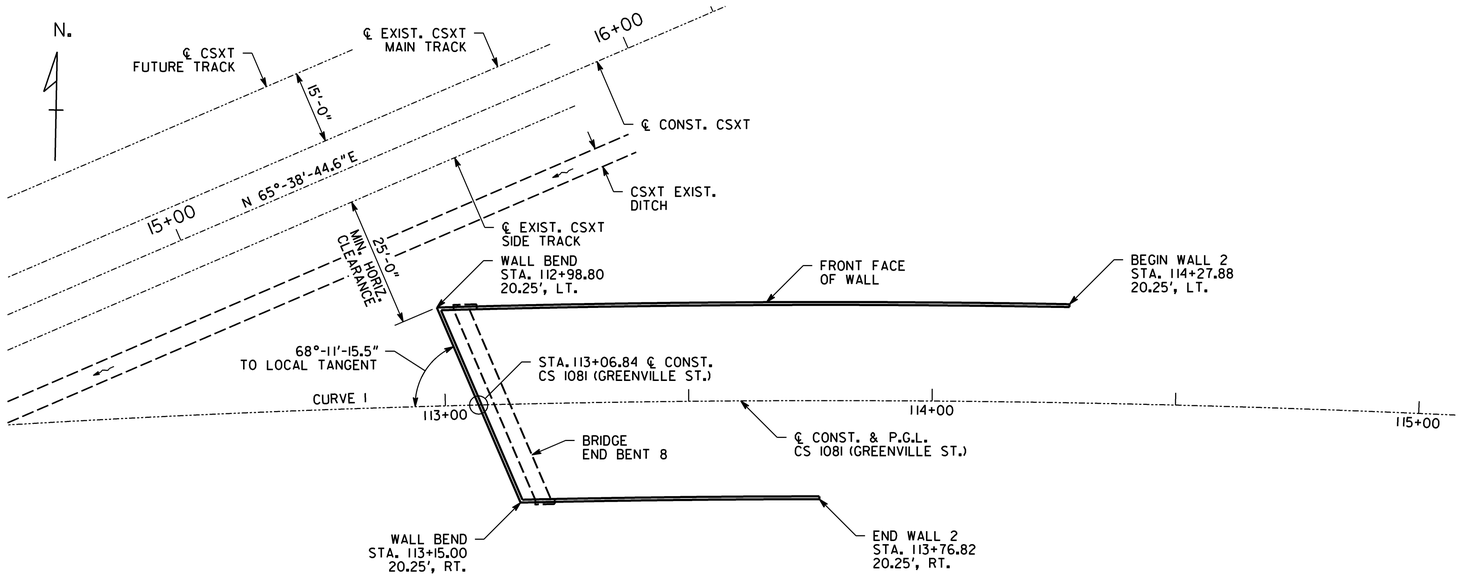
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSTL-2932-00(001)		



PLAN

SCALE: 1" = 15'-0"

PVI STA. 111+30.00
EL. 825.95

6.1055% -3.7000%

440.00 FT. V.C.

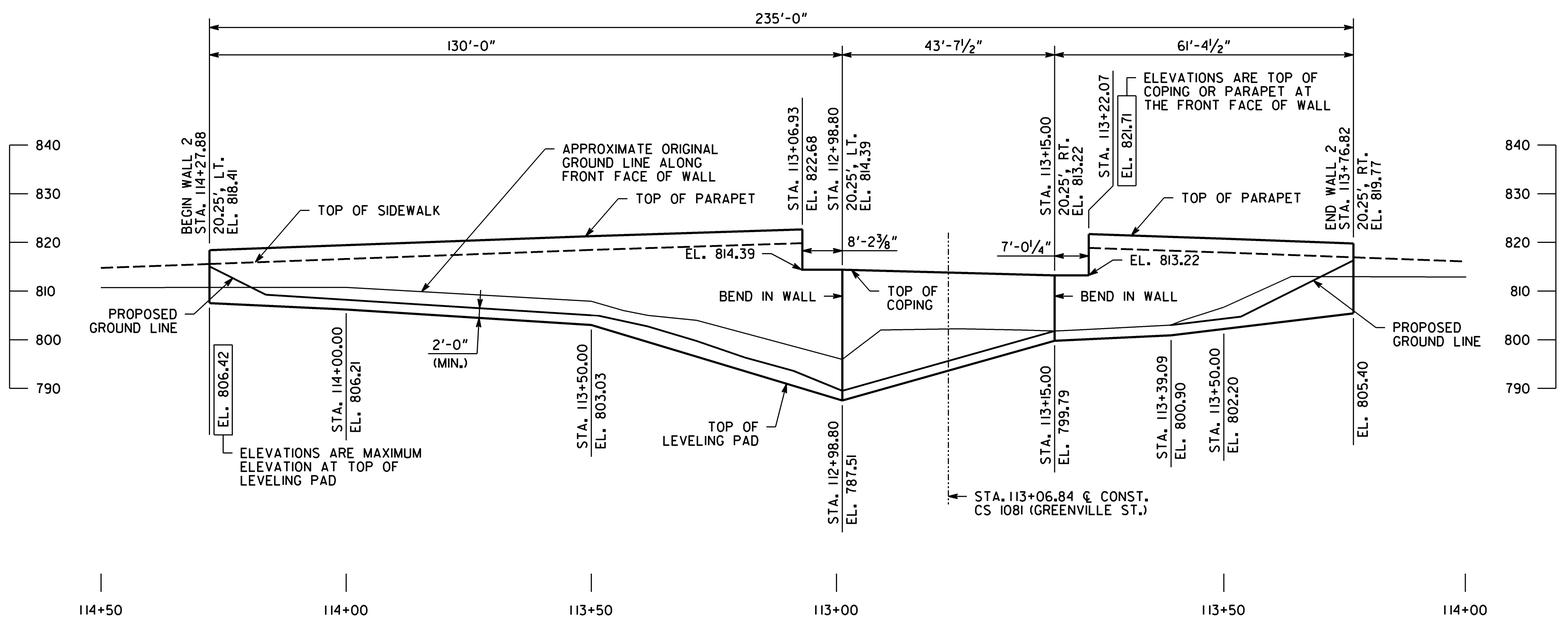
VERTICAL CURVE DATA
CS 1081

P.I. STA. = 114+10.39
Δ = 27°-52'-20.2"
D = 2°-01'-28.5"
T = 702.25 FT.
L = 1376.69 FT.
R = 2830.00 FT.
S.E. = 2.20%

HORIZONTAL CURVE DATA
CURVE 1

NOTE:

STATIONS AND OFFSETS SHOWN ARE RADIAL DIMENSIONS MEASURED FROM ℄ CONST. CS 1081 (GREENVILLE ST.) TO FRONT FACE OF WALL.



ELEVATION

(LOOKING AT FRONT FACE OF WALL)
SCALE: 1" = 15'-0"

WALL NO. 2

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY PLAN AND ELEVATION
CS 1081 (GREENVILLE STREET) OVER
CSX TRANSPORTATION
TROUP COUNTY BRSTL-2932-00(001)

BY	REVISIONS	DATE

DRAWING NO. 32-02
WALL SHEET 2 OF 3

SCALE: 1" = 15'-0" DECEMBER 2014

DESIGNED GJM CHECKED RSC REVIEWED WMD/DLC
DRAWN GJM DESIGN GROUP EJC APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

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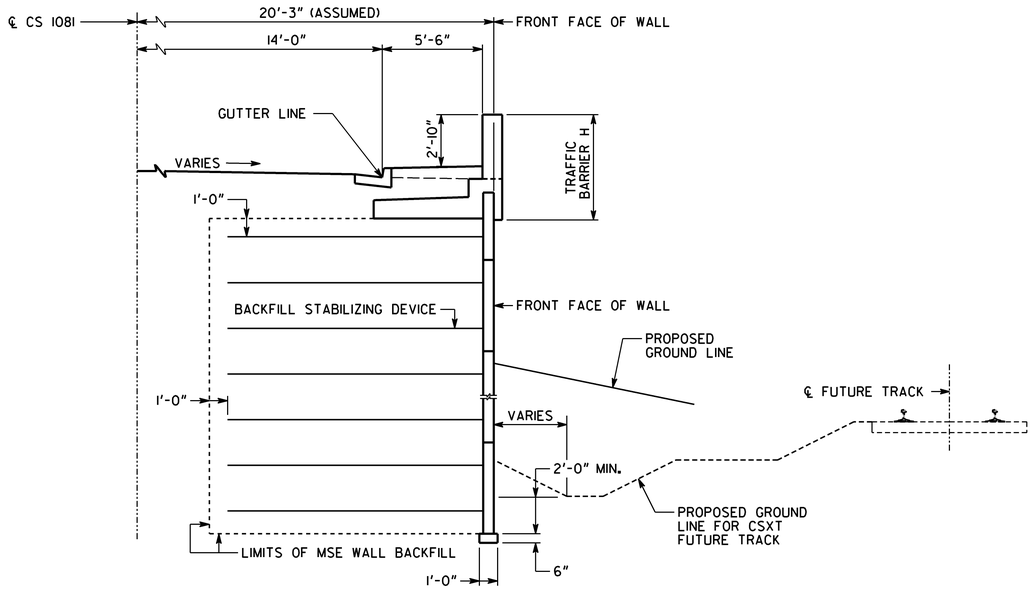
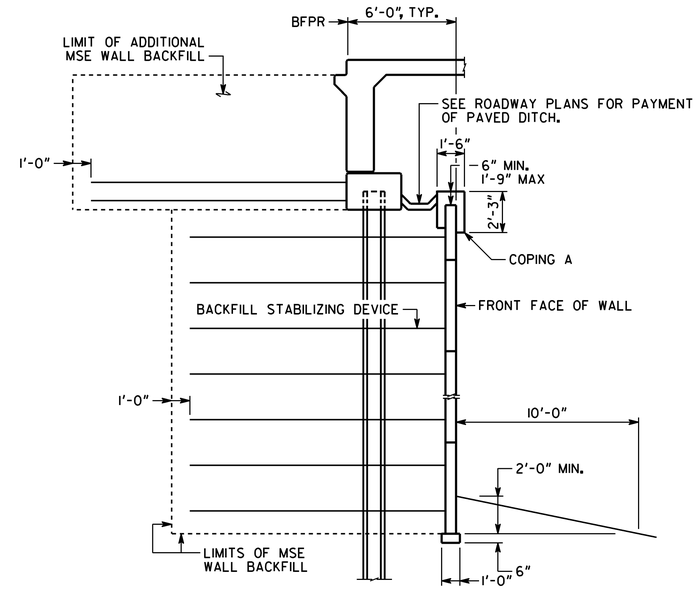
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSTL-2932-00(001)		

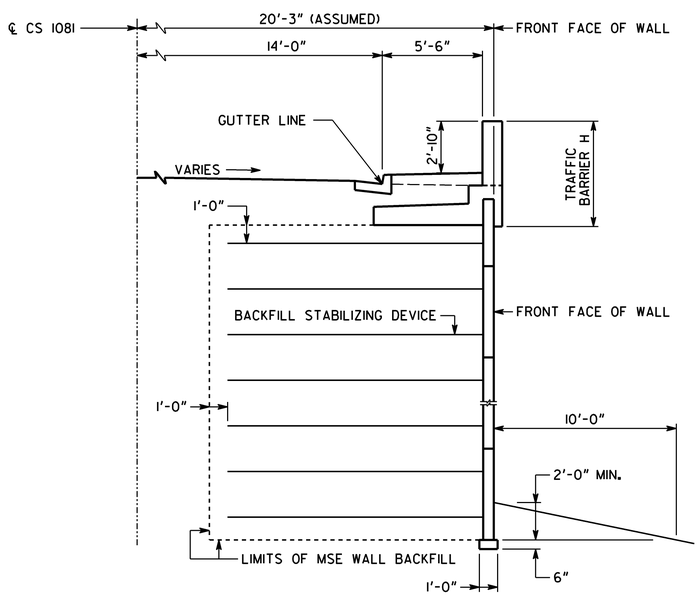


SECTION THRU WALL 1

(ADJACENT TO CSXT FUTURE TRACK)



SECTION UNDER BRIDGE



SECTION THRU WALL 2

WALL NOS. 1 AND 2

URS

400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

GEORGIA

DEPARTMENT OF TRANSPORTATION

ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY WALL DETAILS
CS 1081 (GREENVILLE STREET) OVER
CSX TRANSPORTATION
TROUP COUNTY BRSTL-2932-00(001)

REVISIONS	BY	DATE

DRAWING NO. 32-03

WALL SHEET 3 OF 3

SCALE: NONE

DECEMBER 2014

DESIGNED GJM | CHECKED RSC | REVIEWED WMD/DLC

DRAWN GJM | DESIGN GROUP EJC | APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

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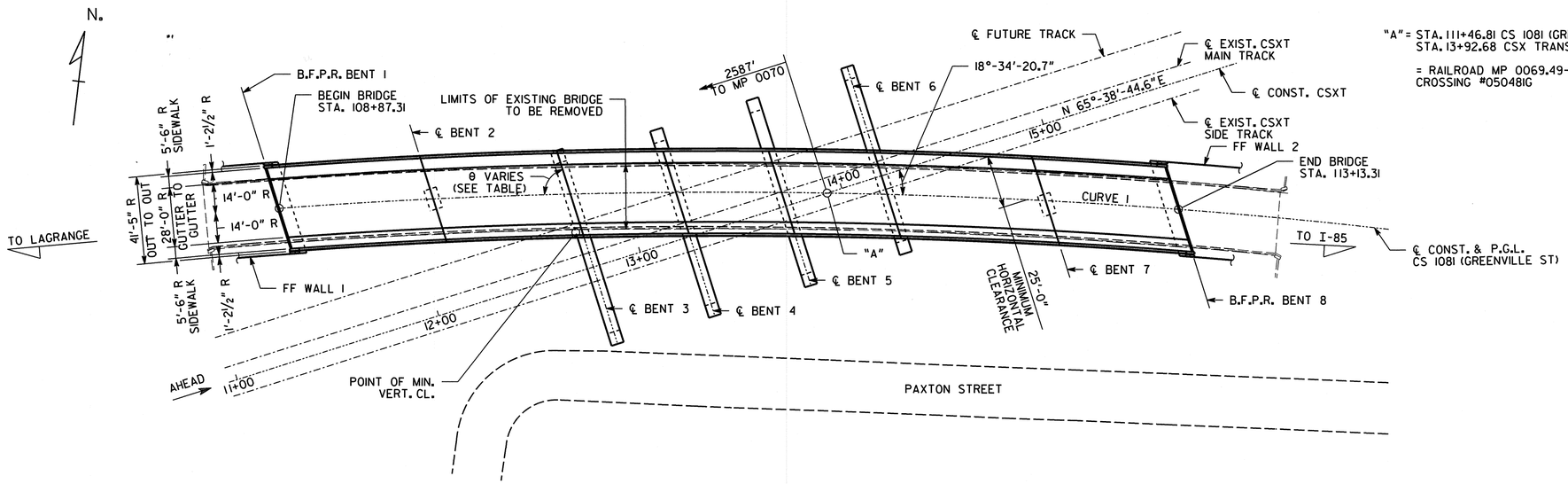
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSTL-2932-00(001)		



PLAN

"A" = STA. 111+46.81 CS 1081 (GREENVILLE ST) = STA. 13+92.68 CSX TRANSPORTATION

= RAILROAD MP 0069.49-XXB CROSSING #050481G

BENCHMARK

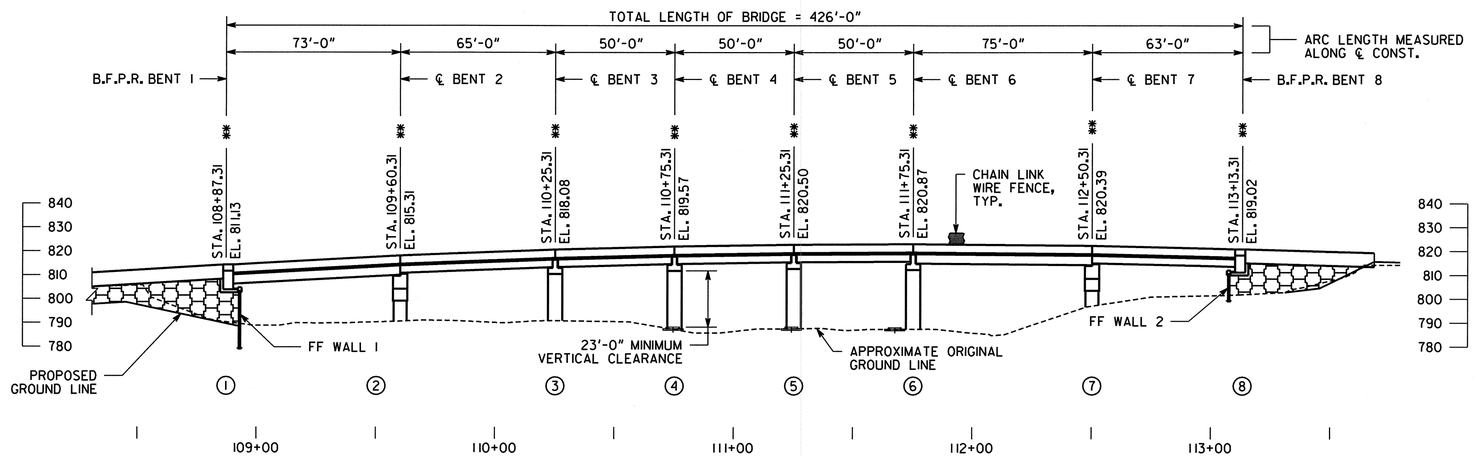
CHISELED SQUARE IN CONCRETE ON SW CORNER OF THE BRIDGE
STA. 108+51.98, 11.50' RT.
EL. 806.375
N = 1108073.0600
E = 2038875.7670

BENT ANGLES *

BENT	θ
1	76°-40'-53.0"
2	75°-12'-12.4"
3	73°-53'-14.8"
4	72°-52'-30.6"
5	71°-51'-46.3"
6	70°-51'-02.1"
7	69°-19'-55.7"
8	68°-03'-23.9"

* MEASURED TO LOCAL TANGENT

** STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.P.R. OR ℄ BENTS.



ELEVATION

EXISTING TOP OF RAIL ELEVATIONS

	MAIN TRACK		SIDE TRACK	
STATION	LT RAIL	RT RAIL	LT RAIL	RT RAIL
12+00	787.06	787.04	786.48	786.48
12+50	787.47	787.45	786.90	786.90
13+00	787.87	787.86	787.32	787.32
13+50	788.27	788.27	787.74	787.74
14+00	788.68	788.68	788.16	788.15
14+50	789.14	789.13	788.60	788.59
15+00	789.68	789.63	789.08	789.06
15+50	790.22	790.13	789.55	789.53
16+00	790.77	790.63	790.03	789.99

EXISTING BRIDGE SERIAL NO. 285-0034-0

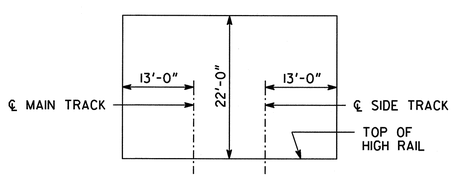
EXISTING BRIDGE I.D. NO. 285-02932M-001.39E

PROJECT P.I. NO. 343455

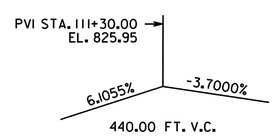
BRIDGE NO. 1

NOTES:

1. ALL BENTS ARE PARALLEL.
2. R INDICATES DIMENSIONS ARE RADIAL TO ℄ CONST. ALL ANGLES ARE MEASURED TO TANGENT ON CURVE.
3. END BENT PILES NOT SHOWN.
4. PROPOSED DECK TO BE BUILT ON A CONSTANT CROSS SLOPE OF 2.20% SLOPING DOWN AND TO THE RIGHT.
5. REMOVE EXISTING BRIDGE AND EXISTING SUBSTRUCTURE AS PER SPECIFICATIONS.
6. ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. TRAFFIC SHALL BE MAINTAINED ON AN OFF SITE DETOUR.



CONSTRUCTION CLEARANCE DIAGRAM



VERTICAL CURVE DATA
CS 1081

P.I. STA. = 114+10.39
Δ = 27°-52'-20.2"
D = 2°-01'-28.5"
T = 702.25 FT.
L = 1376.69 FT.
R = 2830.00 FT.
S.E. = 2.20%

HORIZONTAL CURVE DATA
CURVE 1

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 29371 R. SCOTT CAPLE
12-03-14

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY LAYOUT
CS 1081 (GREENVILLE STREET) OVER
CSX TRANSPORTATION
TROUP COUNTY BRSTL-2932-00(001)

DATE	REVISIONS	BY

DRAWING NO. 35-01
BRIDGE SHEET 01 OF 02

SCALE: 1" = 30'-0" DECEMBER 2014

DESIGNED GJM CHECKED RSC REVIEWED WMD/DLC
DRAWN GJM DESIGN GROUP EJC APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

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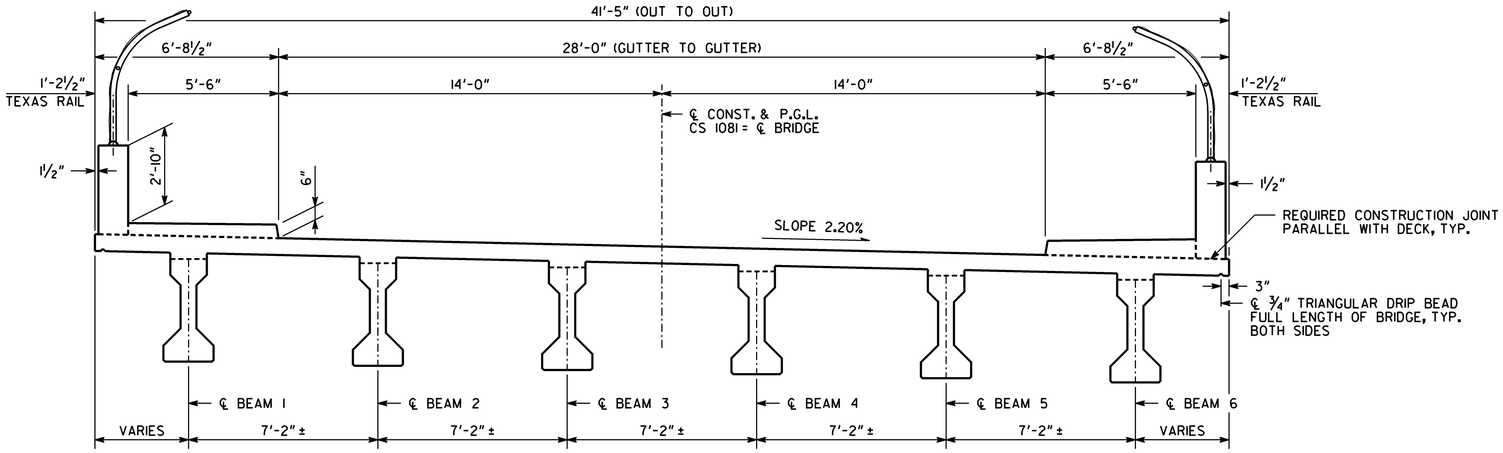
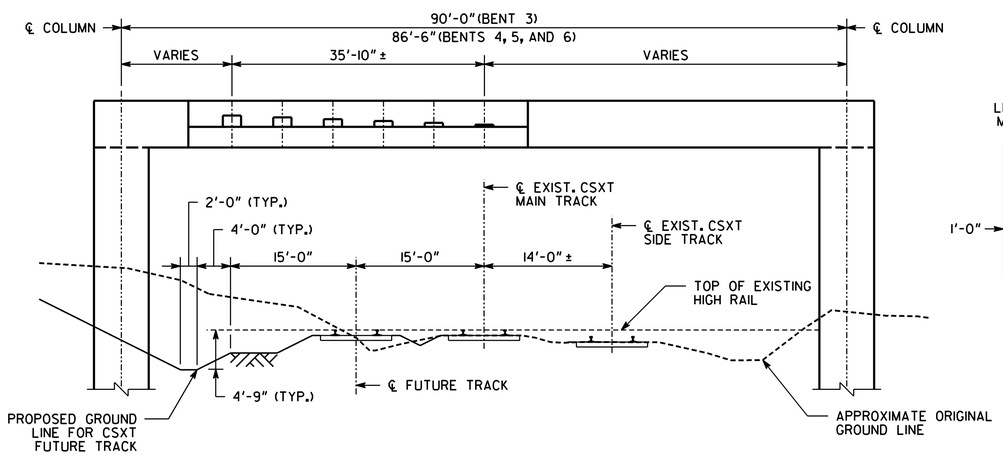
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSTL-2932-00(001)		



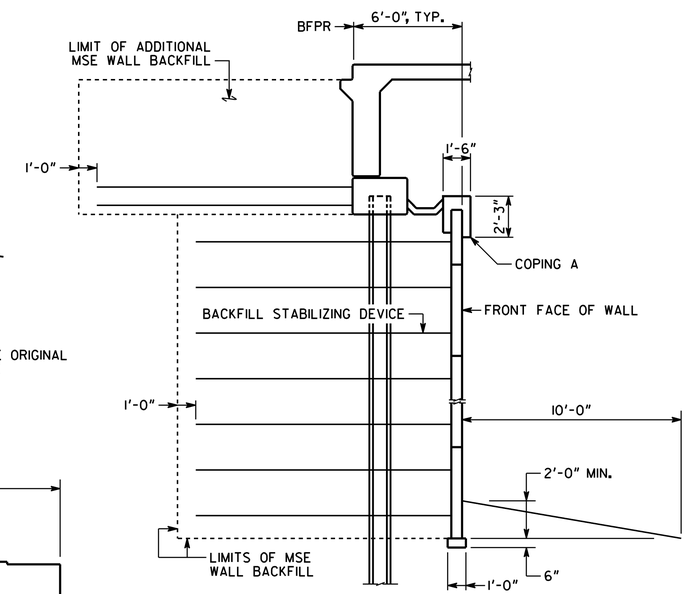
TYPICAL SECTION

ALL DIMENSIONS ARE RADIAL

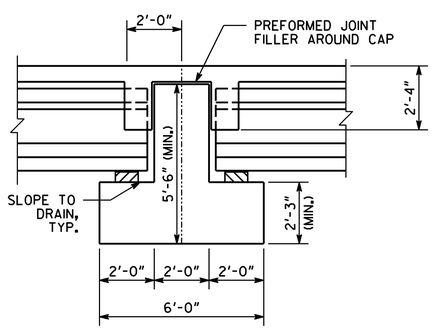


ELEVATION AT BENTS 3, 4, 5, AND 6

NOT TO SCALE

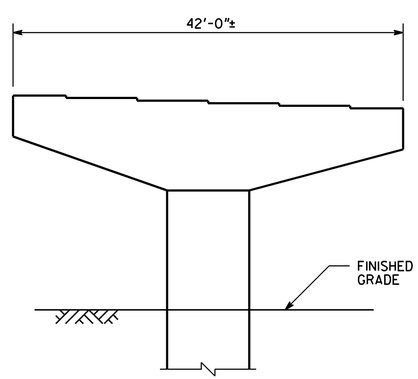


SECTION AT END BENTS



SECTION AT STRADDLE BENTS 3, 4, 5, AND 6

NOT TO SCALE



ELEVATION AT BENTS 2 AND 7

NOT TO SCALE

BRIDGE CONSISTS OF

1 - 73'-0" TYPE III PSC BEAM SPAN ---------- SPECIAL DESIGN

1 - 65'-0" TYPE II PSC BEAM SPAN ---------- SPECIAL DESIGN

3 - 50'-0" TYPE II PSC BEAM SPANS ---------- SPECIAL DESIGN

1 - 75'-0" TYPE III PSC BEAM SPAN ---------- SPECIAL DESIGN

1 - 63'-0" TYPE II PSC BEAM SPAN ---------- SPECIAL DESIGN

2 - PILE END BENTS ---------- SPECIAL DESIGN

2 - CONCRETE INTERMEDIATE HAMMERHEAD BENTS ---------- SPECIAL DESIGN

4 - CONCRETE INTERMEDIATE STRADDLE BENTS (POST-TENSIONED)---- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ------- GA. STD. 3054 (9-30-02)

CHAIN LINK WIRE FENCE ---------- GA. STD. 903IN (8-13-85)

DESIGN DATA

SPECIFICATIONS ---------- AASHTO 17TH EDITION, 2002
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ---------- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ---------- 30 LBS PER SQ FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 3,100 (2016)
ADT = 4,200 (2036)

DESIGN SPEED ---------- 40 MPH

TRUCKS ---------- 1 %

24 HR TRUCKS ---------- 3 %

DIRECTIONAL ---------- 60 %

EXISTING UTILITIES

NONE

PROPOSED UTILITIES

TO BE DETERMINED

BRIDGE NO. 1

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N. E.
SUITE 900
ATLANTA, GA 30328
TEL: (678) 808-8800
FAX: (678) 808-8400

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

PRELIMINARY SECTIONS
CS 1081 (GREENVILLE STREET) OVER
CSX TRANSPORTATION
TROUP COUNTY BRSTL-2932-00(001)

REVISIONS	BY	DATE

DRAWING NO. 35-02
BRIDGE SHEET 02 OF 02

SCALE: NONE DECEMBER 2014

DESIGNED GJM CHECKED RSC REVIEWED WMD/DLC
DRAWN GJM DESIGN GROUP EJC APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

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DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
CS 1081/GREENVILLE ST. @ CSX TRANSPORTATION
BRIDGE REPLACEMENT

TROUP COUNTY

FEDERAL AID PROJECT
BRSTL-2932-00(001)

FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.I. NO. 343455

GEORGIA DEPARTMENT OF TRANSPORTATION

24 HOUR CONTACT:

NAME

ADDRESS

PHONE NUMBER

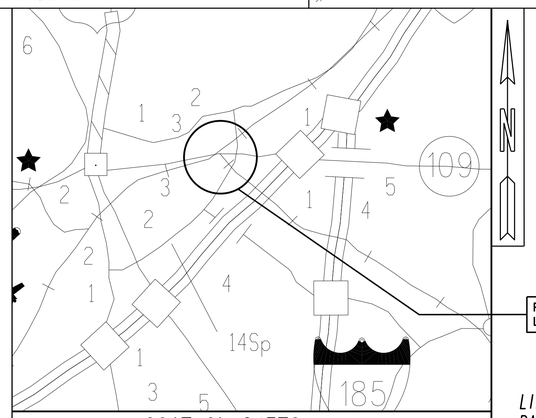
CONTRACTOR SHALL COMPLETE THE INFORMATION IN THIS BOX

PRIMARY PERMITTEE

NAME

ADDRESS

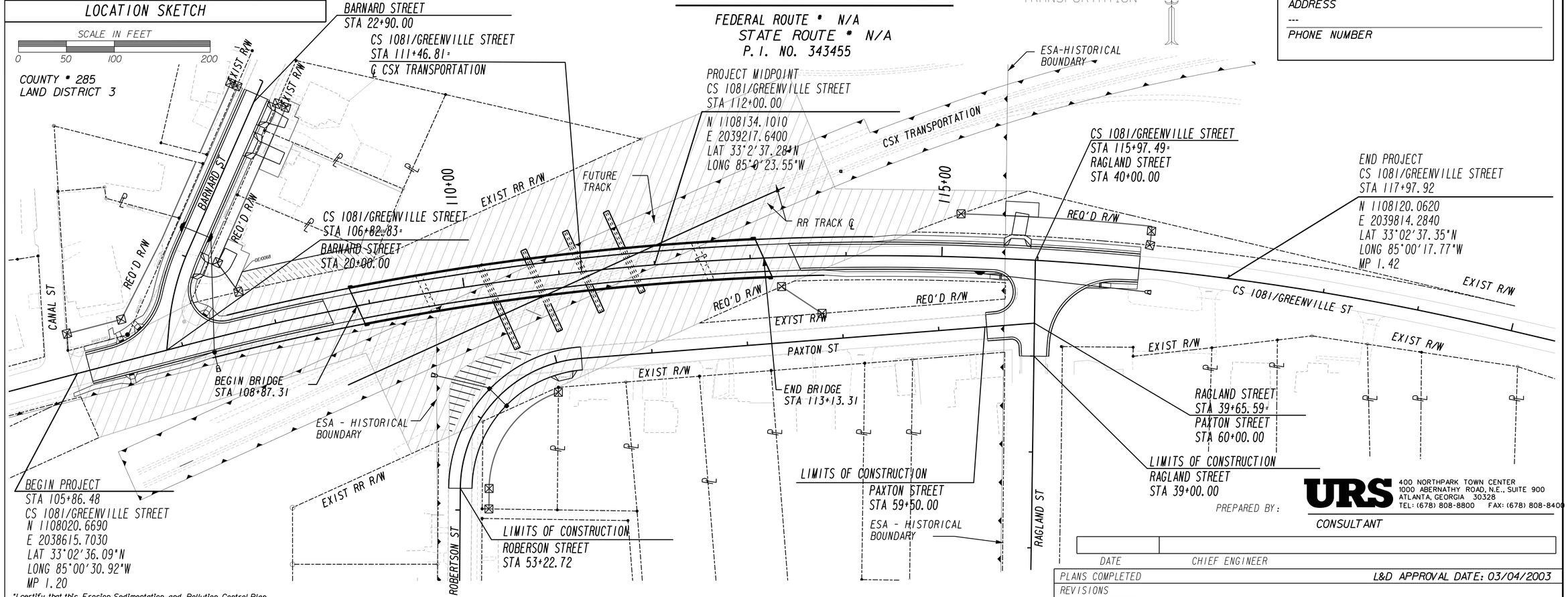
PHONE NUMBER



LOCATION SKETCH

SCALE IN FEET
0 50 100 200

COUNTY * 285
LAND DISTRICT 3



PREPARED BY:

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

CONSULTANT

DATE | CHIEF ENGINEER

PLANS COMPLETED | L&D APPROVAL DATE: 03/04/2003

REVISIONS

REQUESTING AGENCY	DATE	PAGE NUMBER	SIGNATURE	GSWCC LEVEL II *

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my supervision."

NICK CASTRONOVA, GSWCC LEVEL II Certification * 0000011638

50-001

ESPCP GENERAL NOTES:

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land-disturbing activities. Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

PLAN ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161--Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or special provisions) and other applicable contract documents, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

STAGED CONSTRUCTION

Stage 1A

Initial BMP's
Prior to the start of land disturbing activities in this stage, the Contractor shall install perimeter sediment control BMP's shown on the plans prior to the start of clearing and grubbing. Silt control gates shall be installed on existing pipes as shown on the bmp sheets. Stripping of vegetation and other development activities shall be conducted in such a manner so as to minimize seldment loss.

Intermediate BMP's
None in this stage.

Final Stabilization
None in this stage.

Stage 1

Initial BMP's
Maintain initial BMP's that are to remian.

Intermediate BMP's
All initial BMP's will be maintained until such time they need to be removed and inlet sediment traps will be constructed upon installation of temporary drainage structures..

Final Stabilization
Permanent vegetation shall be installed as soon as practical for final stabilization. Slope matting and grassing will be installed upon reaching final grade on slopes. Rip rap aprons are to be installed as pipes are installed.

PETROLEUM STORAGE, SPILLS, AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:

Map Unit Symbol	Map Unit Name	Rating	Component Name (%)	Rating Reasons	Acre in AOI	Percent in AOI
CuC	Cecil-Urban land complex, 2 to 10 percent slopes	Not Rated	Urban Land (40%)		237.9	70.5%

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at http://websoilsurvey.nrcs.usda.gov/.

POST-CONSTRUCTION BMP'S

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of permanent vegetation, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, and vegetated swales/ditches. The post-construction BMP's will provide permanent stabilization of the site and prevent abnormal tranportation of sediment and pollutatnts into receiving waters.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

INSPECTIONS

The primary permittee (GDOT) must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven (7) days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMPs for the initial segment, as defined by Part IV.A.5. of the current GAR100002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project within seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

NON-STORM WATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing stucco, paint, oils, curing compounds, and other construction materials.

DE-WATERING ACTIVITIES AND USE OF PUMPS

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

RETENTION OF RECORDS

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GAR100002.

SEDIMENT STORAGE

The site has a total disturbed area of 0.93 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

						Sediment Basins		Check Dams		Inlet Sediment Traps ((3-6) CY/EA)		Silt Fence (0.26 CY/LF)	
Outfall ID	Concentrated/ Sheet Flow	Area Drained (AC)	Area Disturbed (AC)	Req'd Sediment Storage (CY)	Total Storage Volume Provided (CY)	Pond ID	Total Pond Volume (CY)	# Devices	Total Volume (CY)	# Devices	Total Volume (CY)	Length of Silt Fence (LF)	Total Volume (CY)

In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS

No alternative or additional BMPs will be used on this project.

DISCHARGES INTO, OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

STREAM BUFFER ENCROACHMENT

Stream buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

SAMPLING GENERAL NOTES:

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

											Representative Sampling Scheme				
SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (station and offset)	Name of Receiving Water	Applicable construction stage for monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area (For the receiving water, sq mi)	Total Project Size (acres)	Warm or Cold water Stream	Appendix B NTU value (Outfall Sampling Only)	Allowable NTU Increase (For Receiving Water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (rise/run)	Soil Erosion Index	Alternate Outfall Drainage Basins
A-1	107+30, 32.50' RT	BLUE JOHN CREEK	ALL	OUTFALL	0.002	3.1	WARM	75	N/A	FES	Maintenance/ Safety	0.34	STEEP	LOW	N/A
B-1	54+08, 69.00' LT	BLUE JOHN CREEK	ALL	OUTFALL	0.007	3.1	WARM	75	N/A	FES	Maintenance/ Safety	0.19	STEEP	LOW	N/A

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures.

READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD:	ROOSEVELT		
PROJECT NAME:	GREENEVILLE STREET OVER CSX TRANSPORTATION		
CITY/COUNTY:	TROUP COUNTY	DATE ON PLANS:	

PLAN PAGE #	INCLUDED Y/N	TO BE SHOWN ON ES&PC PLAN
51-003	Y	1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
50-001	Y	2. Level II certification number issued by the Commission, signature and seal of the certified design professional.
50-001	Y	3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-001	Y	4. Provide name, address and phone number of primary permittee.
53-001	Y	5. Note total and disturbed acreage of the project or phase under construction.
50-001	Y	6. Provide the GPS locations of the Beginning and End of the Infastructure project. Give the Latitude and Longitude in decimal degres.
50-001	Y	7. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-001	Y	8. Description of the nature of construction activity.
50-001	Y	9. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phrase, if necessary.
53-001	Y	10. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
50-001	Y	11. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on page 15 of the permit.
50-001	Y	12. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 15 of the permit.*
50-001	Y	13. Design professional certification statement and signature the the permittee's ES&PC plan provides for representative sampling as stated on page 26 of permit as applicable.
50-001	Y	14. Clearly note the statement that " The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMP's and sediment basins in accordance with part IV.A.5. within 7 days after installation.*
51-001	Y	15. Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variances and permits".
51-001	Y	16. Clearly note the statement "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.*
51-001	Y	17. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.*
51-001	Y	18. Cleary note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-001	Y	19. Cleary note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-001	Y	20. Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
	N/A	21. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
	N/A	22. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 21 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
51-002	Y	23. BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*

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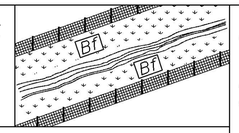
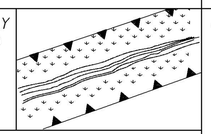
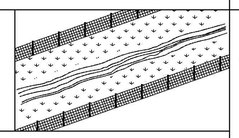
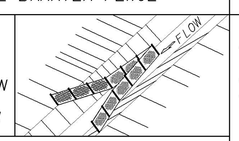
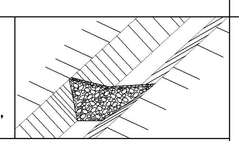
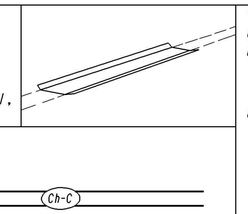
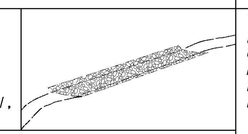
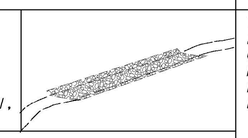
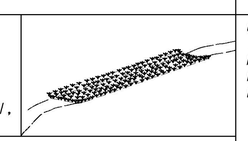
PLAN PAGE #	INCLUDED Y/N	TO BE SHOWN ON ES&PC PLAN
51-001	Y	24. Provide BMPs for the remediation of all petroleum spills and leaks.
51-001	Y	25. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
51-001	Y	26. Description of the practices that will be used to reduce the pollutants in storm water discharges.*
51-001	Y	27. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-001	Y	28. Provide complete requirements of inspections and record keeping by the primary permittee.*
51-002	Y	29. Provide complete requirements of sampling frequency and reporting of sampling results.*
51-001	Y	30. Provide complete details for retention of records as per Part IV.F. of the permit.*
51-002	Y	31. Description of analytical methods to be used to collect and analyze the samples from each location.*
51-002	Y	32. Appendix B rationale for NTU values at all outfall sampling points where applicable.*
55-001	Y	33. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged. Also, provide a summary chart of the justification and analysis for the representative sampling as applicable.*
51-001	Y	34. A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the bmps into a single phase.*
ALL	Y	35. Graphic scale and north arrow.
53-001	Y	36. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours — USGS 1" : 2000' Topographical Sheets Proposed Contours — 1" : 400' Centerline Profile
	N	37. Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
	N/A	38. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
	N/A	39. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
53-001	Y	40. Delineation and acreage of contributing drainage basins on the project site.
55-001	Y	41. Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
53-001	Y	42. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-002	Y	43. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-001	Y	44. Soil series for the project site and their delineation.
54 SERIES	Y	45. The limits of disturbance for each phase of construction.
51 SERIES	Y	46. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.

* If using this checklist for a project that is less than acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Bf	BUFFER ZONE SYMBOL Bf		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. THE BOUNDARIES OF THESE AREAS ARE BE DELINEATED BY ORANGE BARRIER FENCE.
	ESA	ENVIRONMENTALLY SENSITIVE AREA LINE CODE ESA-25'(OR 50')STREAM BUFFER, ETC.		ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESA AREAS INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, ARCHAEOLOGICAL SITES, HISTORIC SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		ORANGE BARRIER FENCE LINE CODE ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ESA AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
	Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL SECTION 171 LINE CODE Cd-F		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, AND BRACING PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24b FOR SPACING REQUIREMENT. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS. IF THIS ITEM IS USED IN AN AREA WITHOUT A SEDIMENT BASIN CONSIDERATION SHOULD BE GIVEN TO USING TWO OR MORE ROCK FILTER DAMS NEAR THE DISCHARGE POINT.
	Cd-S	STONE OR SANDBAG CHECK DAM SECTION 163, 603 LINE CODE Cd-S		STONE CHECK DAMS ARE USED IN ROADWAY DITCHES. GEOTEXITLE UNDERLINER SHALL BE USED WHEN PLACING STONE CHECK DAMS. CONTRACTOR MAY USE SANDBAG CHECK DAMS IN LIEU OF STONE CHECK DAMS. SANDBAG CHECK DAMS MUST BE USED IN CONCRETE LINED CHANNELS.

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Ch-C	CHANNEL CONCRETE SECTION 161, 441 Ch-C		THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-Rp1	CHANNEL RIP RAP TYPE 1 SECTION 161, 603 LINE CODE Ch-Rp1		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP RAP SHALL PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED ALONG THIS CHANNEL SUCH AS Sd1-C, Rdc OR Sg. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-Rp3	CHANNEL RIP RAP TYPE 3 SECTION 161, 603 LINE CODE Ch-Rp3		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP RAP SHALL PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED ALONG THIS CHANNEL SUCH AS Sd1-C, Rdc OR Sg. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-V	CHANNEL GRASS SECTION 161, 700 LINE CODE Ch-V		USED TO IMPROVE OR STABILIZE A NEW OR EXISTING CHANNEL. IT IS CONSTRUCTED IN STORMWATER DRAINAGE DITCHES. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT DITCH PROTECTION PROGRAM ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.

BY	REVISION	DATE
TC	UDATED DRAWING NO.	1-24-13
TC	REVISED Cd-S DESCRIPTION.	10-2-12
	REMOVED Be & Ch-Br. AND RELOCATED Ch-Rp1, Ch-RP3 AND Ch-V CODES FROM ECL&UC SHEET 2 OF 6.	
GLO	REV. Be, ADDED Bf, ESA, OBF AND Ch-F	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 1 OF 6

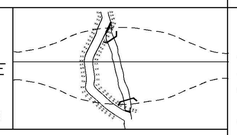
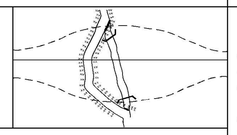
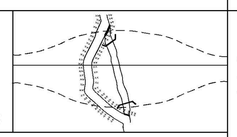
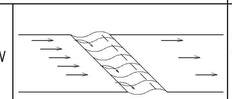
NO SCALE — JANUARY 2007

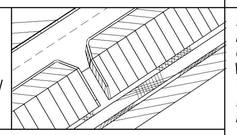
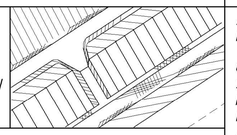
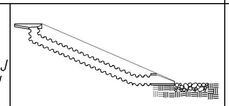
NUMBER EC-L1

DRAWING No. 52-001

1/30/2013 1:53:38 PM \\GDOT-DSN1\GOPLOT\QCF\QGC.qcf tcox M:\TPC\Erosion control legend and uniform codes sheets\revision to ecl and code sheet\ECL52-002.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL LINE CODE Co		A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE EXITING A CONSTRUCTION SITE TO A PUBLIC ROAD. BEST USED AT ACCESS POINTS, i.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MIN. 20' WIDE AND 50' LONG, AND 6" THICK. REQUIRES A GEOTEXTILE UNDERLINER. INCLUDED IN THE PRICE FOR THE CONSTRUCTION EXIT.
	Dc-A	DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163 LINE CODE —D——D——D—Dc-A—D——D——D—		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sdl-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 0-2.5 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	Dc-B	DIVERSION CHANNEL GEOTEXTILE ONLY SECTION163 LINE CODE —D——D——D—Dc-B—D——D——D—		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sdl-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 2.5-9.0 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	Dc-C	DIVERSION CHANNEL RIPRAP AND GEOTEXTILE SECTION 163 LINE CODE —D——D——D—Dc-C—D——D——D—		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIPRAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sdl-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 9.0-13.0 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	Di	DIVERSION BERM CONSTRUCTION DETAIL SECTION 161, 205 LINE CODE Di		THIS IS A TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET. DOWN DRAINS "Dnl"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS. SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Dnl	DOWN DRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL SECTION 163 LINE CODE —T——T——T—Dnl—T——T——T—		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED A INTERVALS OF 500 FEET ON A 0 TO 2 PERCENT GRADE, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE USUAL PIPE SIZE IS 10 INCH CORRUGATED. THE OUTLET AREA SHOULD BE STABILIZED WITH SILT FENCE, SUMP HOLE, HAYBALES, ANGLING OUTLET IN UPHILL DIRECTION OR OTHER APPROPRIATE MEANS FOR VELOCITY DISSIPATION AND EROSION CONTROL. THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.
	Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441 LINE CODE Dn2-A		A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	Dn2-B	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441 LINE CODE Dn2-B		A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFETLY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD. 9017J TPI, D-26 TPI SECTION 576, 577. LINE CODE Dn2-1		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO.	1-24-13
TC	REV. DI LABEL&DESCRIPTION, RELOCATED Dn2-A, Dn2-B, AND Dn2-1 CODES FROM ECL&UC SHEET 3 OF 6.	10-1-12
GLO	REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 2 OF 6

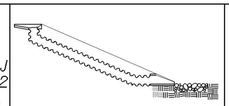
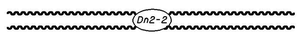
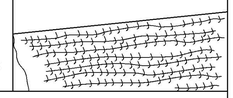
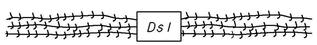
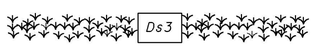
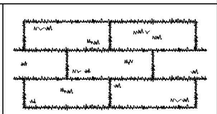
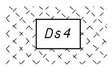
NO SCALE — JANUARY 2007

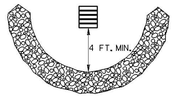
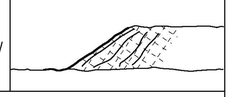
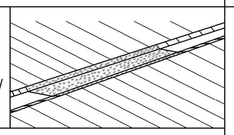
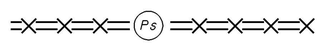
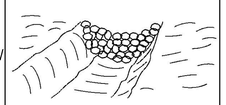
NUMBER EC-L2

DRAWING No. 52-002

1/30/2013 1:53:38 PM \\GDOT-DSN1\GOPLOT\QCF\QGC.qcf tcox M:\TPC\Erosion control legend and uniform codes sheets\revision to ecl and code sheet\ECL52-002.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Dn2-2	PERMANENT DOWN DRAIN STRUCTURE GA. STD. 9017J TP2, D-26 TP2 SECTION 576, 577.		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION. TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
			LINE CODE 	
	Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING.
			LINE CODE 	
	Ds2	TEMPORARY GRASSING SECTION 163		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS.
			LINE CODE	
	Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS. PERMANENT VEGETATIVE REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS; HOWEVER, THEY MAY BE SHOWN ON THE PLANS FOR HIGHLY SENSITIVE AREAS WHERE THESE VEGETATIVE PRACTICES ARE CRITICAL.
			LINE CODE 	
	Ds4	SODDING SECTION 700		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.
			PATTERN 	

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Fr	FILTER RING CONSTRUCTION DETAIL		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS. THIS REDUCES THE VELOCITY OF THE RUNOFF AND FILTERS SEDIMENT FROM THE RUNOFF. SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.
			LINE CODE	
	Mb	EROSION CONTROL MATS CONSTRUCTION DETAIL SECTION 716		ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50' OF ALL CROSS DRAINS AND CULVERTS.
			PATTERN	
	Ps	PERMANENT SOIL REINFORCING MAT CONSTRUCTION DETAIL SECTION 710		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
			LINE CODE 	
	Rd	ROCK FILTER DAM CONSTRUCTION DETAIL SECTION 163, 603.		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP RAP AND ARE USED TO PROTECT SMALL STREAMS OR DRAINAGEWAYS. TO BE USED IN SMALL DRAINAGE CHANNELS OF 50 ACRES OR LESS. THE RIP RAP SHOULD BE PLACED ON A GEOTEXITLE UNDERLINER.
			LINE CODE	

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO., ADDED Ds3 & Ds4 CODES, RELOC. Rp & Rt-P CODES to DRAWING NO. 52-004,	1-24-13
TC	RELOCATED Rd, Rp, & Rt-B CODES FROM ECL&UC SHEET 4 OF 6.	10-2-12
GLO	DELETED Fe, REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 3 OF 6

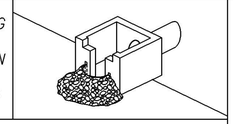
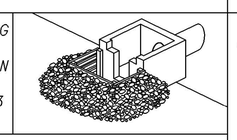
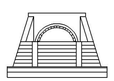
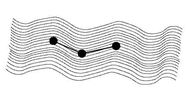
NO SCALE — JANUARY 2007

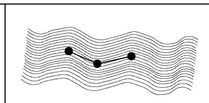
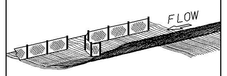
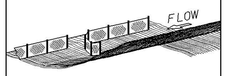
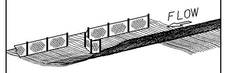
NUMBER EC-L3

DRAWING No. 52-003

1/30/2013 1:53:36 PM \\GDOT-DSN1\GOPLOT\QCF\QGC.qcf tcox M:\TPC\Erosion control legend and uniform codes sheets\revision to ecl and code sheet\ECL52-004.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Rp	RIPRAP SECTION 603	 PATTERN 	RIP RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND END ROLLS. RIP RAP, TYPE 1 SHOULD BE PLACED ON TOP OF A GEOTEXITLE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS.
Rt-P	RETROFITTING CONSTRUCTION DETAIL SECTION 163	 LINE CODE Rt-P	A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
Rt-B	RETROFITTING CONSTRUCTION DETAIL SECTION 163	 LINE CODE Rt-B	A SLOTTED BOARD DAM WITH STONE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 100 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
Rt-BSg1 Rt-BSg2 Rt-BSg3	SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW LINE CODE Rt-BSg1 Rt-BSg2 Rt-BSg3	A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE. SMALL BOX CULVERT. OR DROP INLET TO FORM A BASIN TO CATCH SILT AND PREVENT IT FROM LEAVING THE CONSTRUCTION SITE. IT IS EFFECTIVE ON SMALL DRAINAGE AREAS ONLY. DO NOT USE IN STATE WATERS. Rt-BSg1=TYPE 1: USED ON BOX CULVERTS Rt-BSg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-BSg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Sb-F	SILT RETENTION BARRIER FLOATING SECTION 170	 FLOATING LINE CODE Sb-F	A FLOATING BARRIER IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY FORCING IT TO DROP OUT OF SUSPENSION BEFORE IT MOVES OUT OF THE CONSTRUCTION AREA. IT IS USUALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS ITEM IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED BMP'S.

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Sb-S	SILT RETENTION BARRIER STAKED SECTION 170	 STAKED LINE CODE Sb-S	A STAKED BARRIER IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY FORCING IT TO DROP OUT OF SUSPENSION BEFORE IT MOVES OUT OF THE CONSTRUCTION AREA. IT IS USUALLY USED WHERE CONSTRUCTION IS REQUIRED IN SHALLOW INUNDATED AREAS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. A STAKED BARRIER MAY BE USED TO PROTECT A SMALL STREAM WHILE IT IS BEING REALIGNED OR WIDENED IN "Ch1". IN THIS CASE THE BARRIER SHOULD EXTEND TO THE BOTTOM OF THE STREAM. IT SHOULD BE LIMITED TO 5' IN HEIGHT UNLESS OTHERWISE DIRECTED. STAKED BARRIERS IN SMALL STREAMS SHOULD EXTEND 1' ABOVE NORMAL WATER. THIS ITEM IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED BMP'S.
Sdl-A	SILT FENCE TYPE A CONSTRUCTION DETAIL SECTION 171	 LINE CODE —A—A—A—Sdl-A—A—A—A—	USED ALONG THE TOE OF FILLS LESS THAN 10' HIGH, ALONG THE RIGHT OF WAY LINE OR PARALLEL TO STREAMS. THE FENCE SHOULD NEVER RUN CONTINUOUS. IT SHOULD TURN BACK INTO THE FILL TO CREATE SMALL POCKETS TO TRAP SILT.
Sdl-B	SILT FENCE TYPE B CONSTRUCTION DETAIL SECTION 171	 LINE CODE —B—B—B—Sdl-B—B—B—B—	TYPE B MAY BE USED IN LIEU OF BALED STRAW AND AT THE TOE OF FILLS LESS THAN 10 FEET HIGH.
Sdl-C	SILT FENCE TYPE C CONSTRUCTION DETAIL SECTION 171	 LINE CODE —C—C—C—Sdl-C—C—C—C—	A WOVEN SYNTHETIC FIBER FABRIC PLACED IN FRONT OF A WIRE FENCE. IT CAN BE USED ALONG THE TOE OF THE FILL, ALONG THE RIGHT OF WAY LINE OR PARALLEL TO STREAMS. IT IS USED TO CAPTURE SEDIMENT FROM FILLS OVER 10 FEET HIGH AND UNDER ALL BRIDGES.

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO. & RELOCATED Sdl-Bb&Sdl-Hb CODES TO DRAWING NO. 52-005.	1-24-13
TC	RELABELED AND RELOCATED Sg-1,Sg-2, Sg-3 TO Rt-BSg1, Rt-BSg2, & Rt-BSg3 CODES AND Sdl-Bb,Sdl-Hb CODES FROM ECL&UC SHT.5 OF 6.	10-2-12
GLO	REV. Sdl-A	
GLO	REV. Sb-F, Sb-S, Sdl-A, Sdl-B AND Sdl-C.	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET

SHEET 4 OF 6

NO SCALE — JANUARY 2007

NUMBER EC-L4

DRAWING No. 52-004

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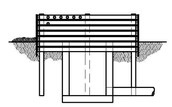
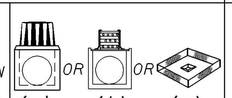
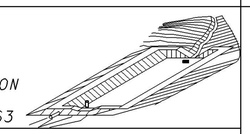
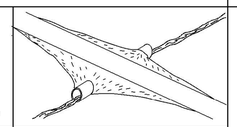
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Sd1-Bb	BRUSH BARRIER CONSTRUCTION DETAIL		THIS ITEM CONSISTS OF INTERMINGLED BRUSH. LOGS. ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT OF WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPERATE PAYMENT SHALL BE MADE.
		LINE CODE	* * * Sd1-Bb * * *	
	Sd1-Hb	SEDIMENT BARRIER CONSTRUCTION DETAIL SECTION 163		A BARRIER OF BALED STRAW IS USED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT IS USED IN DITCHES AS DITCH CHECKS OR ALONG THE TOE OF SLOPE OR RIGHT OF WAY IN FILLS LESS THAN 10 FEET HIGH. THE BALES SHOULD RUN PARALLEL TO THE SILT YIELDING AREA UNTIL THE TOP OF THE BALE IS 6 INCHES LOWER THAN THE GROUND ELEVATION OF THE BEGINNING BALE. THEY SHOULD THEN TURN INTO THE FILL WITH A LOW POINT FOR THE WATER TO DRAIN OVER THE BALE. IN DITCHES, BALED STRAW SHOULD BE PERPENDICULAR TO THE FLOW. USED FOR SLOPES LESS THAN 1%. USE 100' SPACING. BALED STRAW SHALL BE STAKED SECURELY TO THE GROUND.
		LINE CODE	—S—S—S—Sd1-Hb—S—S—S—	
	Sd2-B	BAFFLE BOX INLET SEDIMENT TRAP CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163		USED FOR INLETS RECEIVING RUNOFF WITH A HIGHER VOLUME OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A Q=7cfs.
		LINE CODE	Sd2-B	
	Sd2-Bg	BLOCK & GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163		USED FOR INLET PROTECTION WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A Q=5-7 cfs.
		LINE CODE	Sd2-Bg	
	Sd2-F	INLET SEDIMENT TRAP CONSTRUCTION DETAILS SECTION 163	 (a) OR (b) OR (c)	(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5% THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECIEVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOWS THAT RANGE FROM Q=0-4 cfs.
		LINE CODE	Sd2-F	

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Sd2-G	GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163		USED FOR INLET PROTECTION WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A Q=3-5 cfs.
		LINE CODE	Sd2-G	
	Sd3	SEDIMENT BASIN CONSTRUCTION DETAIL SECTION 163		A BASIN EXCAVATED OR AN AREA THAT IS DAMMED. THE BASIN IS DESIGNED TO HOLD A SEDIMENT LOAD OF 67 CUBIC YARDS OF VOLUME PER ACRE OF DRAINAGE AREA. IT IS USED FOR DRAINAGE AREAS OF 3 TO 5 ACRES OR WHERE A ROADWAY CUTS OR FILLS EXCEEDS 1,000 FEET IN LENGTH. IF A SEDIMENT BASIN IS USED ON AN AREA LARGER THAN 5 ACRES SPECIAL CONSIDERATION FOR CLEAN OUT IS REQUIRED. SUFFICIENT RIGHT OF WAY OR PERMANENT EASEMENT NEEDED FOR THE BASIN AND ACCESS FOR CLEAN OUT VIA A ROUTE WITH 3:1 SLOPES OR LESS. SEDIMENT BASINS SHOULD ALSO BE CONSIDERED WHERE HIGH FILLS OVER 30 FEET DRAIN TO ONE LOCATION.
		LINE CODE	Sd3	
	Sr	STREAM CROSSING SECTION 161		A TEMPORARY BRIDGE OR PIPE STRUCTURE PROTECTING A STREAM OR WATER COURSE FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THIS AREA MUST BE COMPLETELY STABILIZED. THIS ITEM MUST BE DESIGNED ACCORDING TO CHAPTER 6 OF THE MANUAL FOR EROSION CONTROL IN GEORGIA
		LINE CODE	Sr	FOR CONTRACTOR'S USE ONLY

NOTE:
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO. & RELOCATED St & St-Rp CODES TO DRAWING NO. 52-006.	1-24-13
TC	DEL. Sg-1, Sg-2, Sg-3 CODES, RELOCATED St & St-Rp, CODES FROM ECL & UC SHT. 6 OF 6.	10-2-12
GLO	REV. Sg-1, Sg-2 AND Sg-3	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 5 OF 6

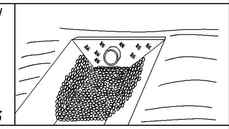
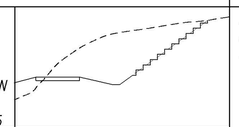
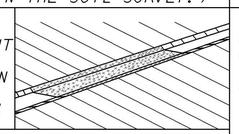
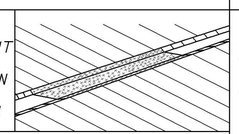
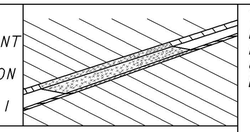
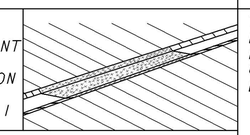
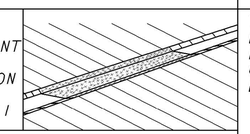
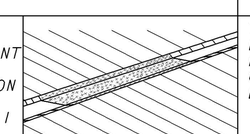
NO SCALE — JANUARY 2007

NUMBER EC-L5

DRAWING No. 52-005

1/30/2013 1:53:33 PM \\GDOT-DSN1\GOPLOT\OCF\OGC.qcf tcox M:\TPC\Erosion control legend and uniform codes sheets\revision to ecl and code sheet\ECL52-006.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 LINE CODE St	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO PREVENT EROSION AND TO SLOW WATER. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY IS 12 fps AND GREATER.
	St-Rp	STORM DRAIN OUTLET PROTECTION SECTION 603	 PATTERN St-Rp	THIS ITEM IS ADDED TO "St" WHEN ADDITIONAL PROTECTION IS NEEDED. TYPE I RIP RAP PLACED ON FILTER FABRIC SHOULD BE USED AT A 24" THICKNESS. MAY BE USED ON INLETS FOR FLOWING STREAMS. REFER TO CHARTS IN "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR QUANTITIY DETERMINATION.
	Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL SECTION 205	 LINE CODE Su (LINE CODE Su IS SHOWN ON THE PLANS FOR SERRATED SLOPES WHERE SPECIFIED IN THE SOIL SURVEY.)	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS ITEM IS NOT REQUIRTED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE USED ON THE PROJECT, THEN THIS ITEM SHALL BE SHOWN WHERE SERRATED SLOPES ARE TO BE USED.
	Trm-1	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE Trm-1	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-2	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE Trm-2	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-3	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE Trm-3	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-4	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE Trm-4	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-5	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE Trm-5	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-6	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE Trm-6	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)

NOTE:
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2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO.	1-24-13
TC	ADDED Trm-1,Trm-2,Trm-3, Trm-4,Trm-5,AND Trm-6. CODES AND DESCRIPTIONS. RELOCATED St & St-Rp CODES TO ECL & UC SHT. 5 of 6.	10-2-12

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 6 OF 6

NO SCALE — NOV., 2007

NUMBER EC-L6 — DRAWING No. 52-006

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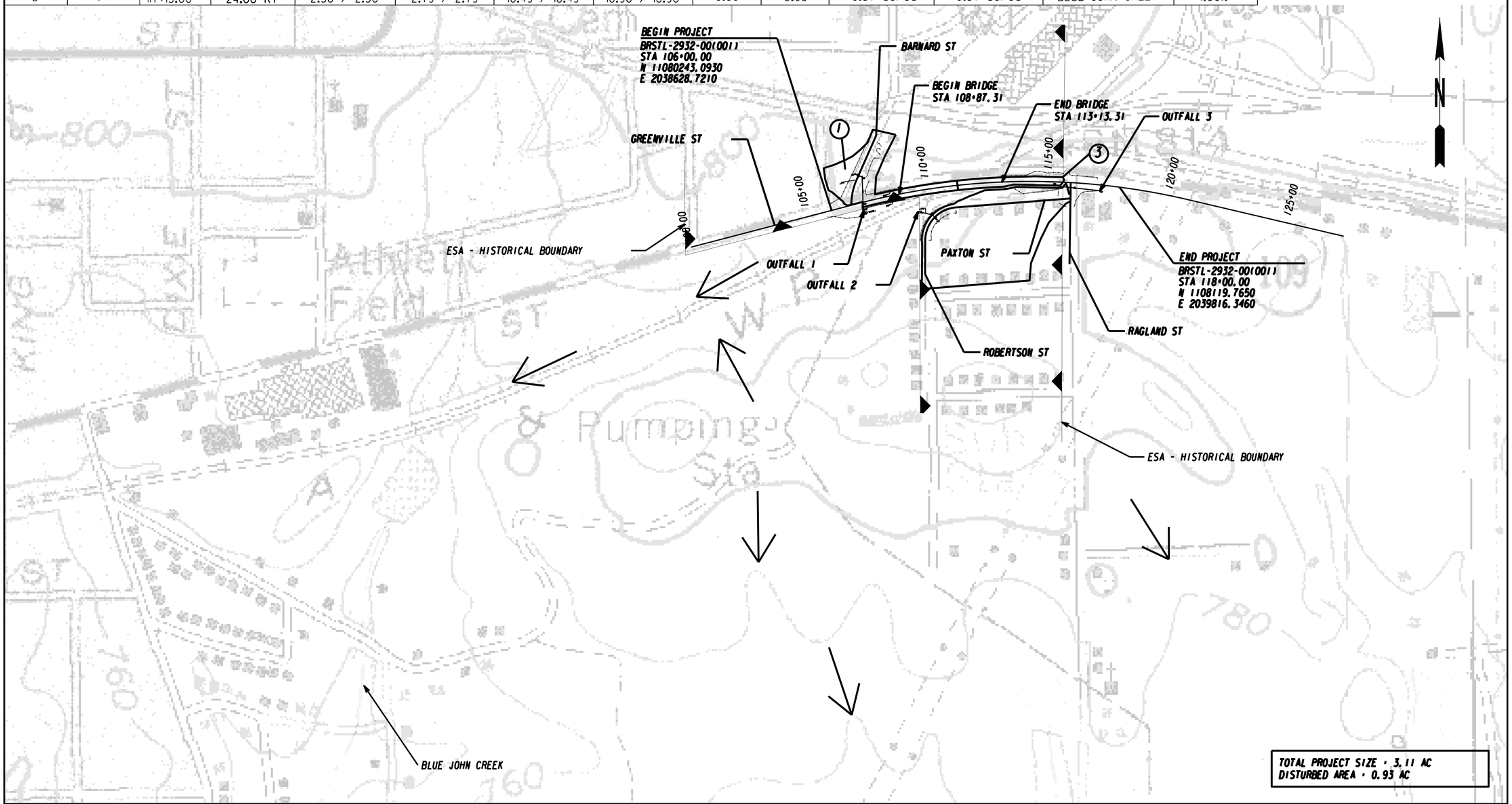
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2938-00(001)		

OUTFALL	STRUCTURE	STA	OFFSET	EXISTING/FUTURE Q50 (CFS)	EXISTING/FUTURE Q100 (CFS)	EXISTING/FUTURE V50 (FPS)	EXISTING/FUTURE V100 (FPS)	EXISTING 'C'	FUTURE 'C'	DRAINAGE AREA	DISTURBED AREA	RECEIVING WATERS	CHANNEL SLOPE
1	A-1	107+30.00	32.50 RT	7.15 / 7.91	7.80 / 8.63	24.19 / 24.92	24.82 / 25.58	0.66	0.72	1.4 acres	0.34 acres	BLUE JOHN CREEK	1.00%
2	B-1	54+08.50	69.00 LT	14.86 / 15.19	16.22 / 16.58	51.92 / 52.26	53.28 / 53.63	0.45	0.46	4.3 acres	0.19 acres	BLUE JOHN CREEK	2.00%
3	C-1	117+13.00	24.00 RT	2.56 / 2.56	2.79 / 2.79	18.49 / 18.49	18.96 / 18.96	0.90	0.90	0.37 acres	0.37 acres	BLUE JOHN CREEK	1.00%



GEORGIA
DEPARTMENT OF TRANSPORTATION

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

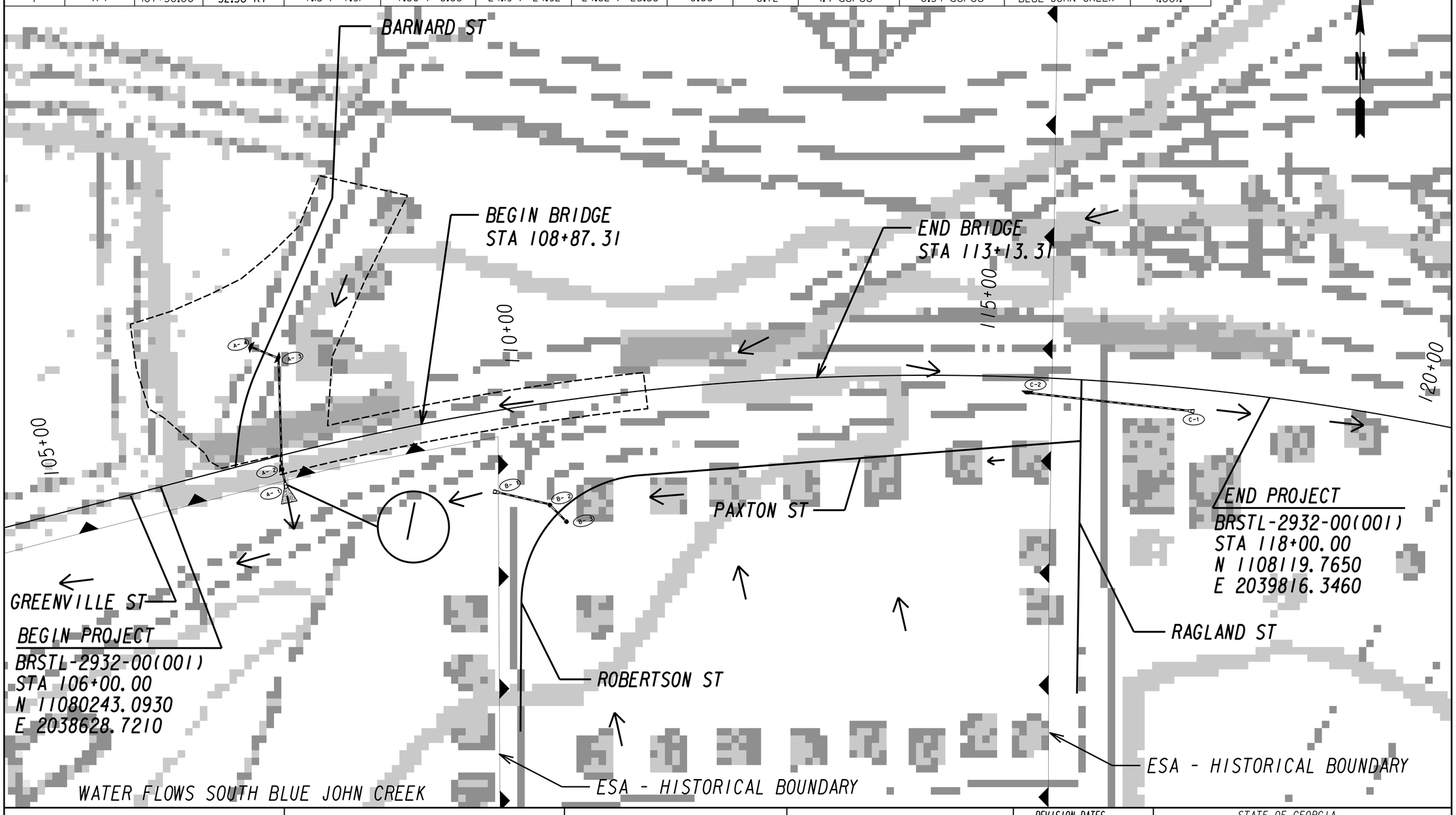
EROSION CONTROL DRAINAGE AREA MAP

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 53-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2938-00(001)		

OUTFALL	STRUCTURE	STA	OFFSET	EXISTING/FUTURE Q50 (CFS)	EXISTING/FUTURE Q100 (CFS)	EXISTING/FUTURE V50 (FPS)	EXISTING/FUTURE V100 (FPS)	EXISTING 'C'	FUTURE 'C'	DRAINAGE AREA	DISTURBED AREA	RECEIVING WATERS	CHANNEL SLOPE
1	A-1	107+30.00	32.50 RT	7.15 / 7.91	7.80 / 8.63	24.19 / 24.92	24.82 / 25.58	0.66	0.72	1.4 acres	0.34 acres	BLUE JOHN CREEK	1.00%



GEORGIA
DEPARTMENT OF TRANSPORTATION

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

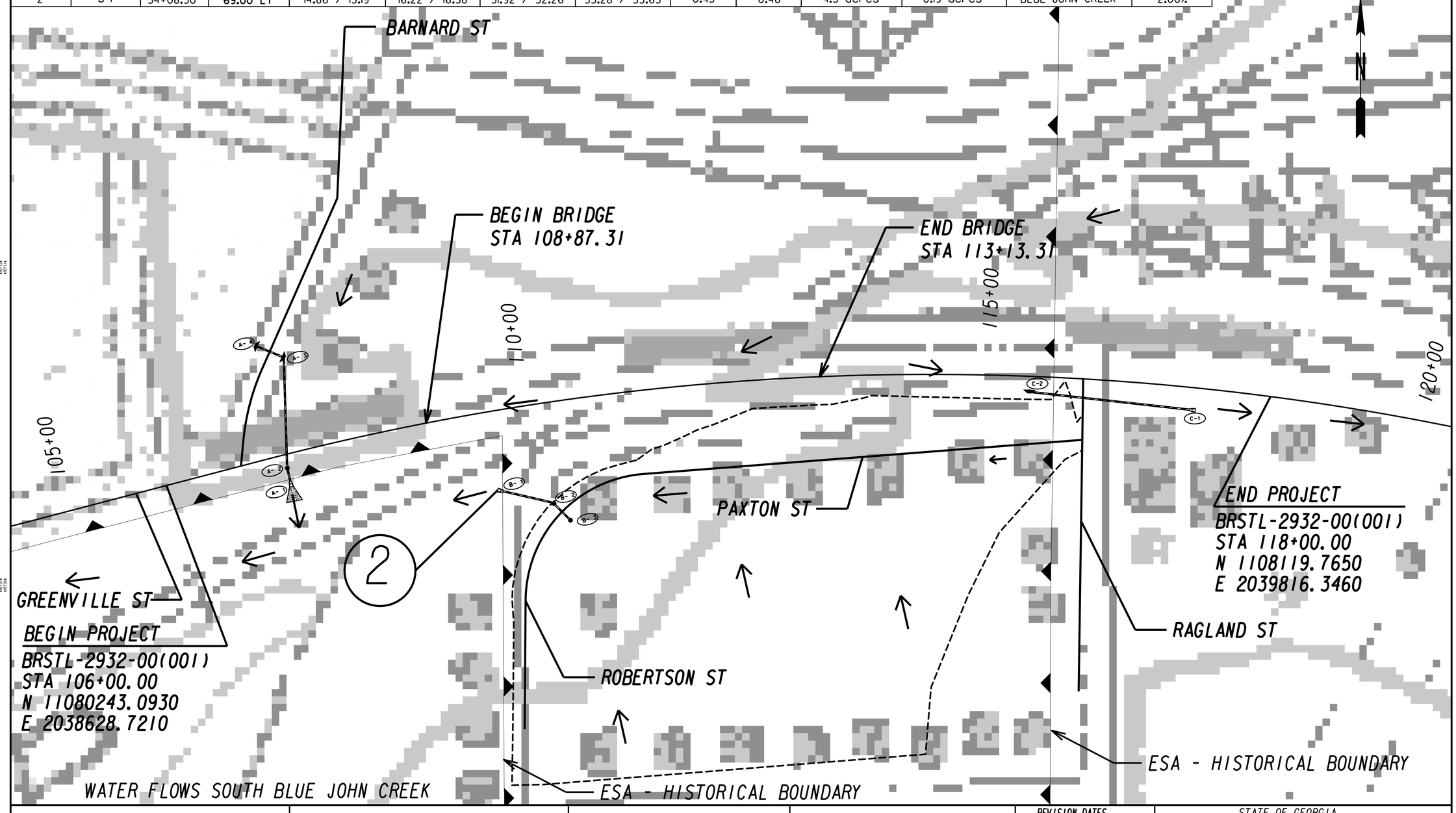
EROSION CONTROL DRAINAGE AREA MAP

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 53-002

DATE$$$ TIME$$$ $PRF8$ DGN STATE GA PROJECT NUMBER BRSTL-2938-00(001) SHEET NO. TOTAL SHEETS
$USER$ $$PENTABLE$$

OUTFALL	STRUCTURE	STA	OFFSET	EXISTING/FUTURE Q50 (CFS)	EXISTING/FUTURE Q100 (CFS)	EXISTING/FUTURE V50 (FPS)	EXISTING/FUTURE V100 (FPS)	EXISTING 'C'	FUTURE 'C'	DRAINAGE AREA	DISTURBED AREA	RECEIVING WATERS	CHANNEL SLOPE
2	B-1	54+08.50	69.00 LT	14.86 / 15.19	16.22 / 16.58	51.92 / 52.26	53.28 / 53.63	0.45	0.46	4.3 acres	0.19 acres	BLUE JOHN CREEK	2.00%



GEORGIA
DEPARTMENT
OF
TRANSPORTATION

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

EROSION CONTROL
DRAINAGE AREA MAP

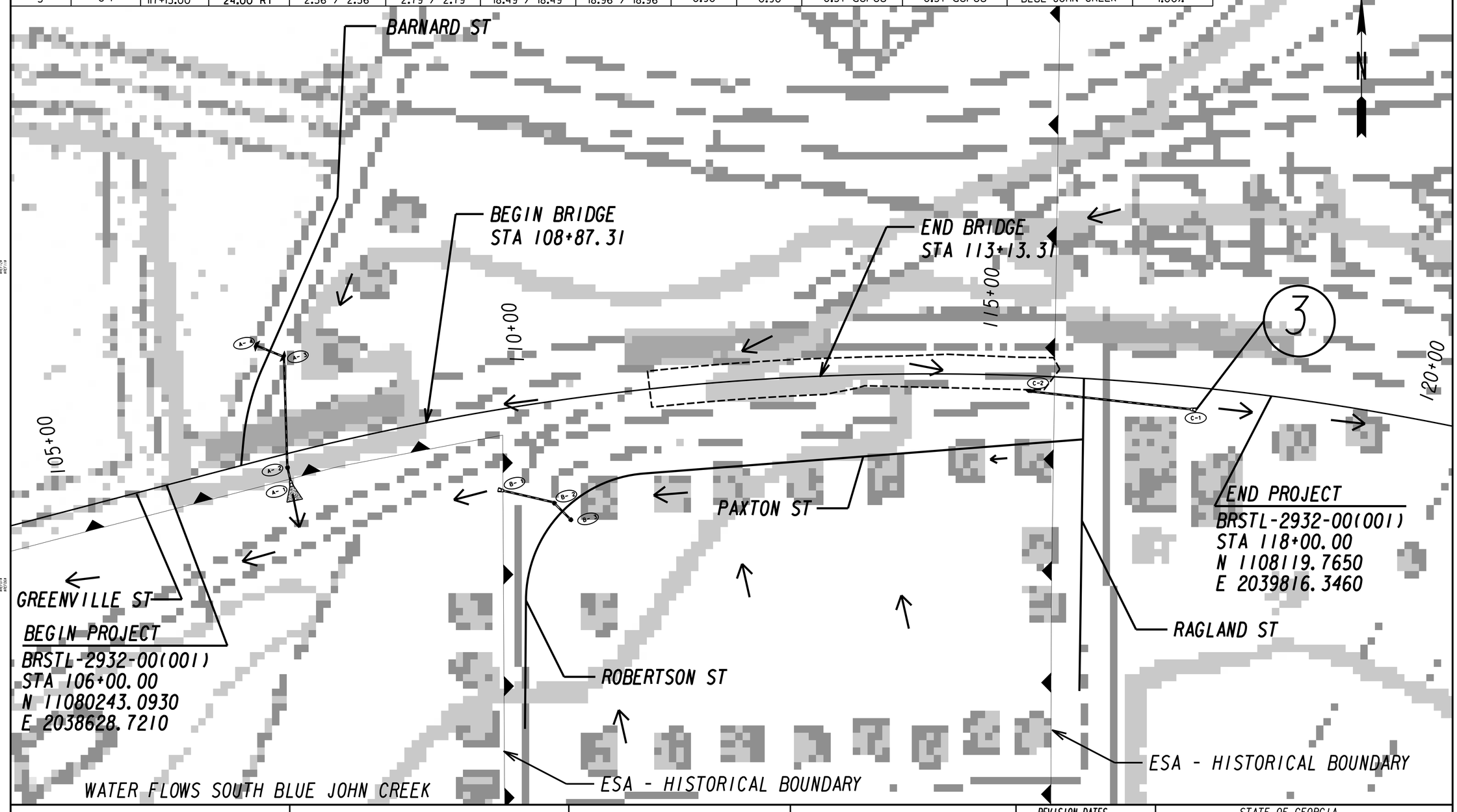
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
53-003

6/20/2011 GPLN

DATE$$$ TIME$$$ $PRF8$ DGN STATE GA PROJECT NUMBER BRSTL-2938-00(001) SHEET NO. TOTAL SHEETS
$USER$ $$PENTABLE$$

OUTFALL	STRUCTURE	STA	OFFSET	EXISTING/FUTURE Q50 (CFS)	EXISTING/FUTURE Q100 (CFS)	EXISTING/FUTURE V50 (FPS)	EXISTING/FUTURE V100 (FPS)	EXISTING 'C'	FUTURE 'C'	DRAINAGE AREA	DISTURBED AREA	RECEIVING WATERS	CHANNEL SLOPE
3	C-1	117+13.00	24.00 RT	2.56 / 2.56	2.79 / 2.79	18.49 / 18.49	18.96 / 18.96	0.90	0.90	0.37 acres	0.37 acres	BLUE JOHN CREEK	1.00%



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SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

EROSION CONTROL
DRAINAGE AREA MAP

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 53-004

6/20/2011 GPUN

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN
CS 1081/GREENVILLE ST. @ CSX TRANSPORTATION
BRIDGE REPLACEMENT

TROUP COUNTY

FEDERAL AID PROJECT
BRSTL-2932-00(001)

FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.I. NO. 343455

GEORGIA DEPARTMENT OF TRANSPORTATION

24 HOUR CONTACT:

NAME

ADDRESS

PHONE NUMBER

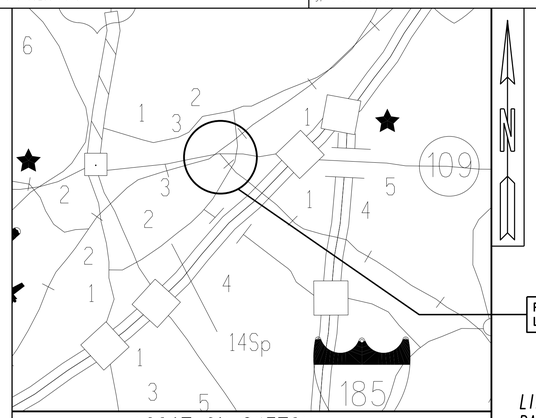
CONTRACTOR SHALL COMPLETE THE INFORMATION IN THIS BOX

PRIMARY PERMITTEE

NAME

ADDRESS

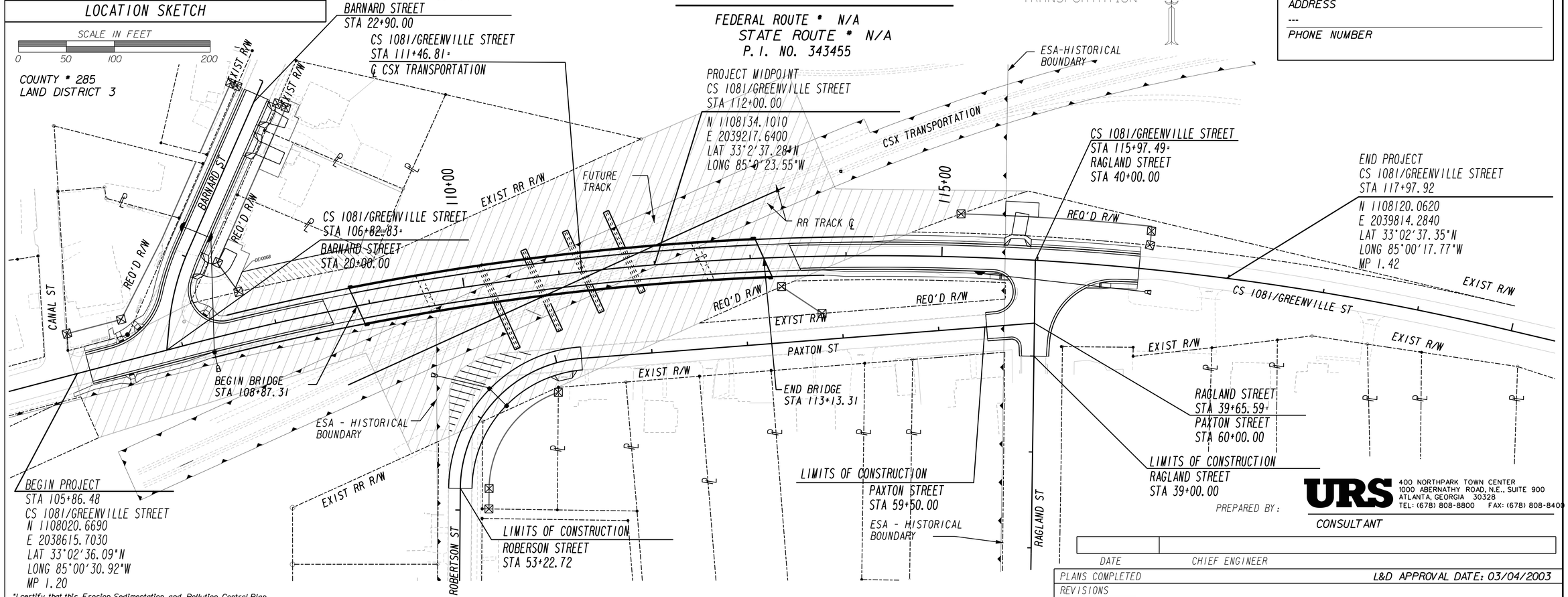
PHONE NUMBER



LOCATION SKETCH

SCALE IN FEET
0 50 100 200

COUNTY * 285
LAND DISTRICT 3



PREPARED BY:

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400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

CONSULTANT

DATE | CHIEF ENGINEER

PLANS COMPLETED | L&D APPROVAL DATE: 03/04/2003

REVISIONS

REQUESTING AGENCY	DATE	PAGE NUMBER	SIGNATURE	GSWCC LEVEL II *

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

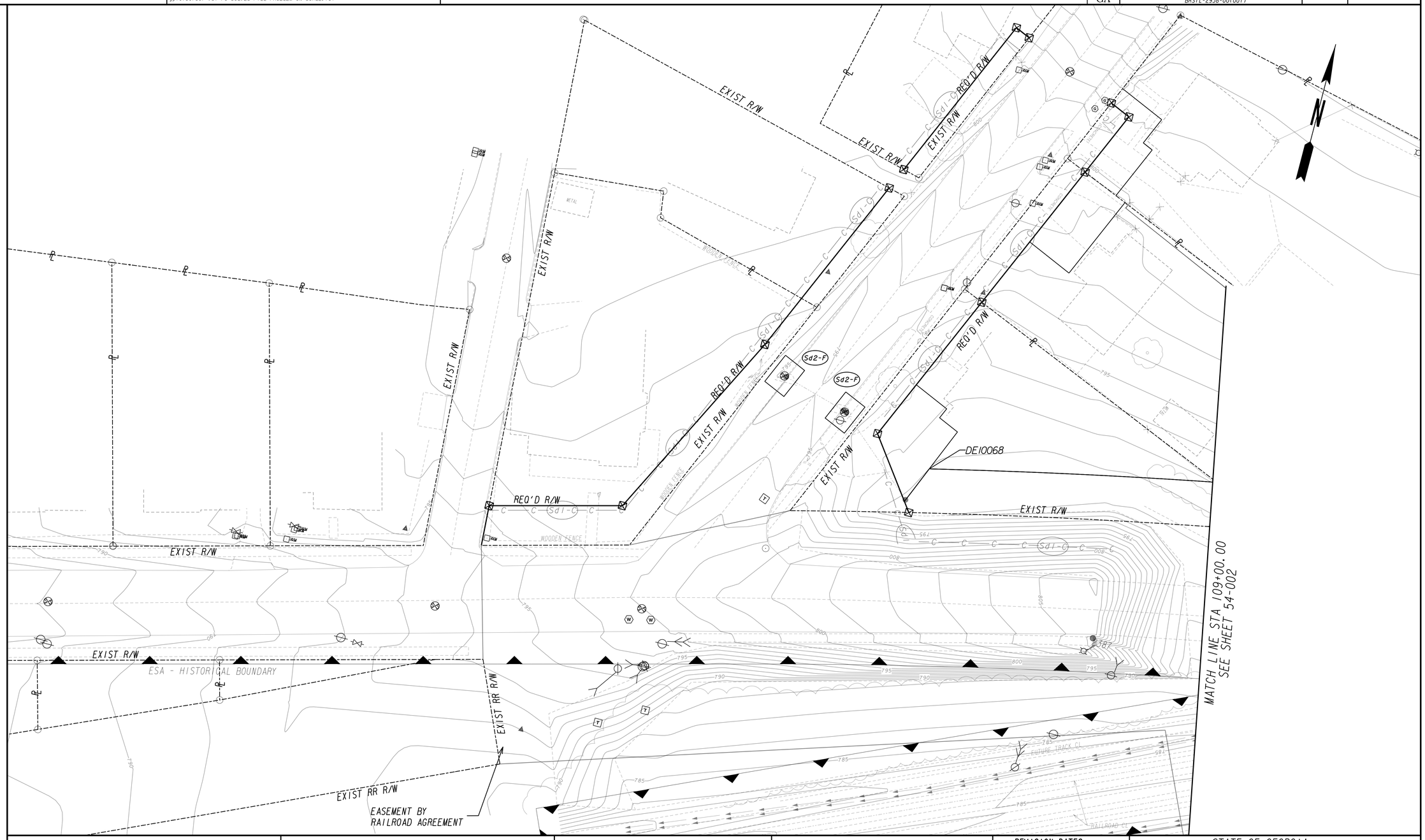
"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my supervision."

NICK CASTRONOVA, GSWCC LEVEL II Certification * 0000011638

50-001

5/26/2015 6:23:19 PM USER:amanda_Summers	GPLOT-V8 gplotborder-V8I-PO-SOLVES FILL PROBLEM ON SCALE.tbl	P:\1528\1277\WORKING FILES\DGN\343455_54-001.dgn	STATE GA	PROJECT NUMBER BRSTL-2938-0010011	SHEET NO.	TOTAL SHEETS



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

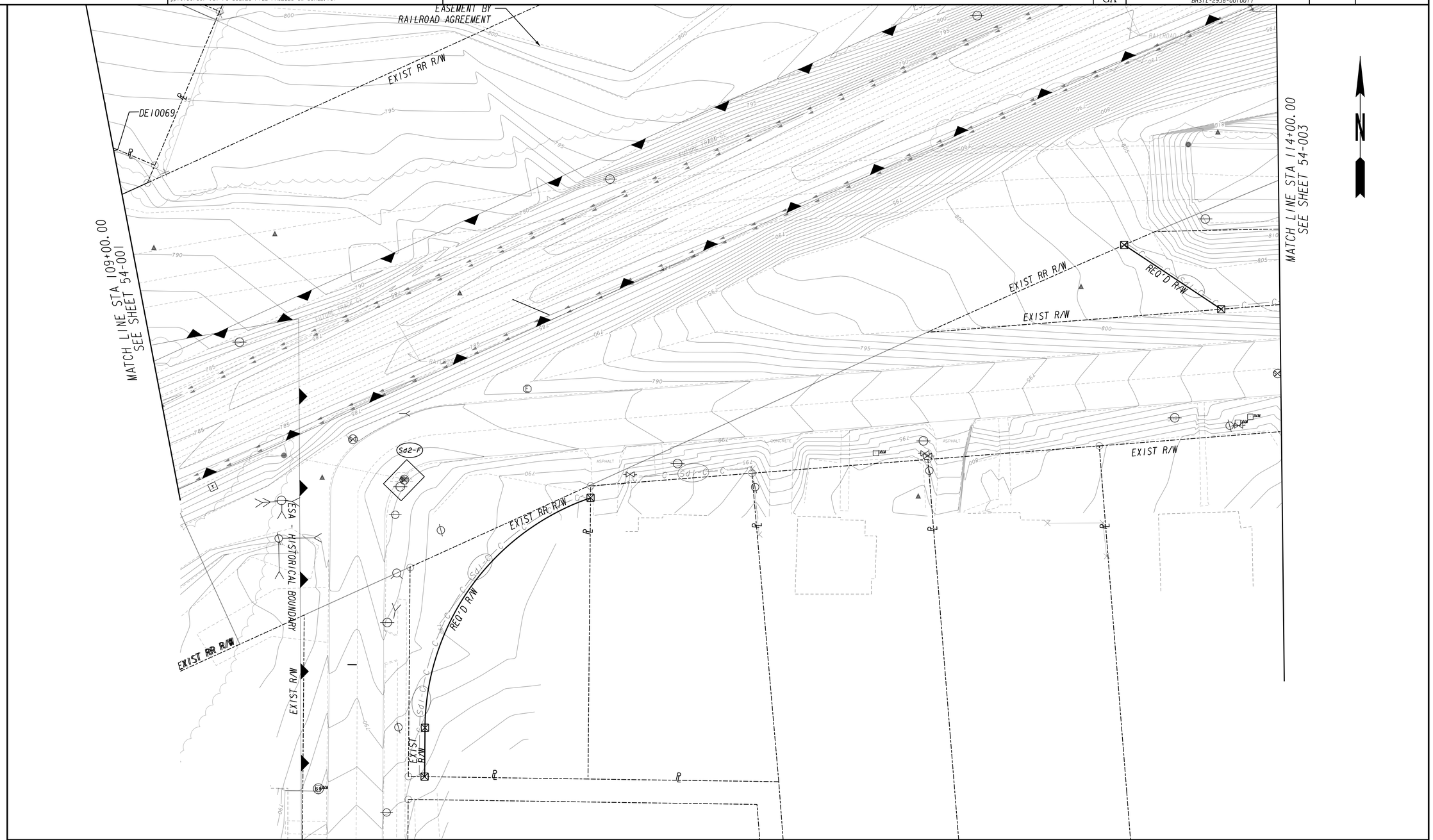
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1A

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-001

6/20/2011 GPLN



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

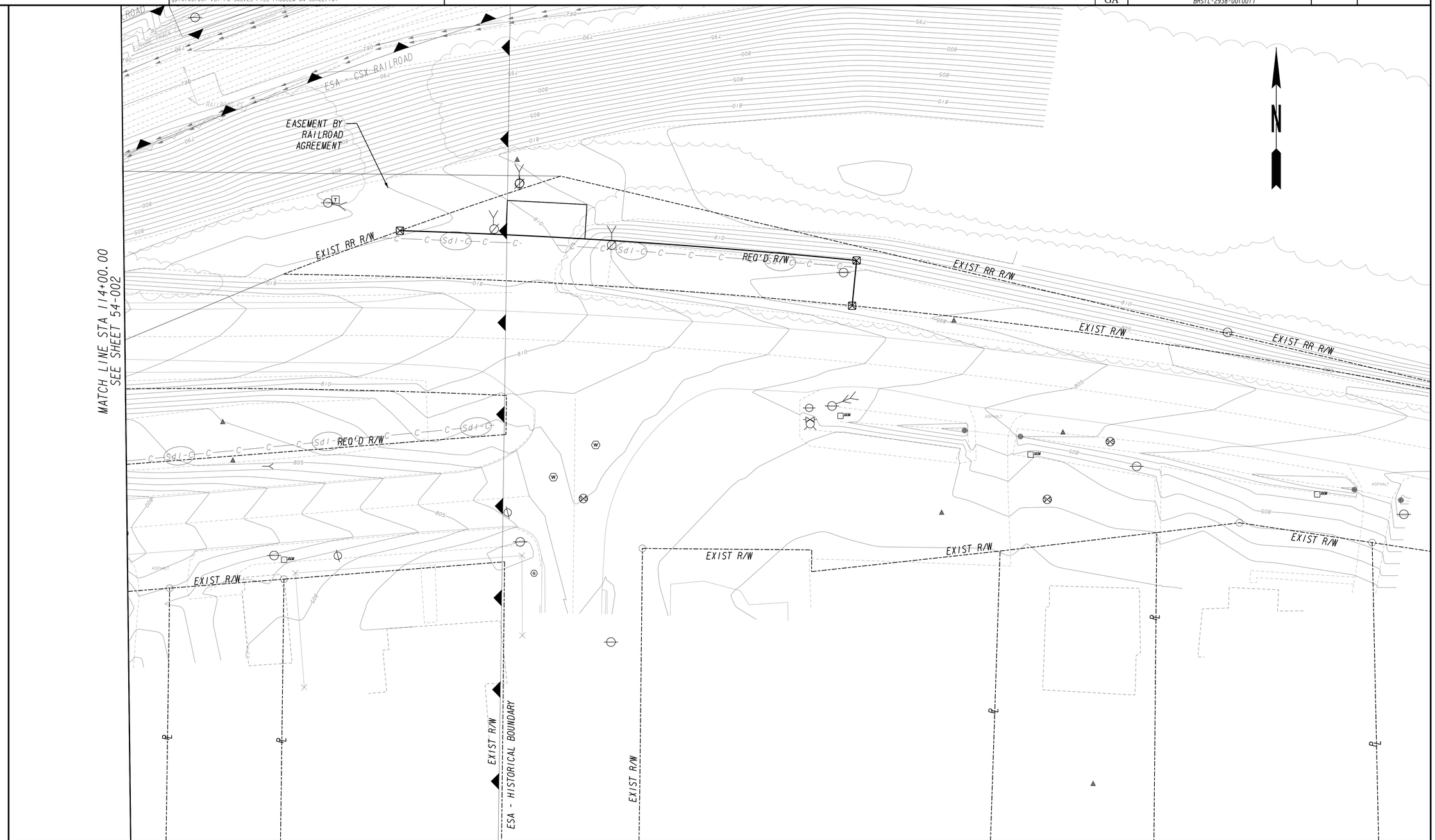
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1A

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-002

6/20/2011 GPLN



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

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1A

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-003

6/20/2011 GPLN

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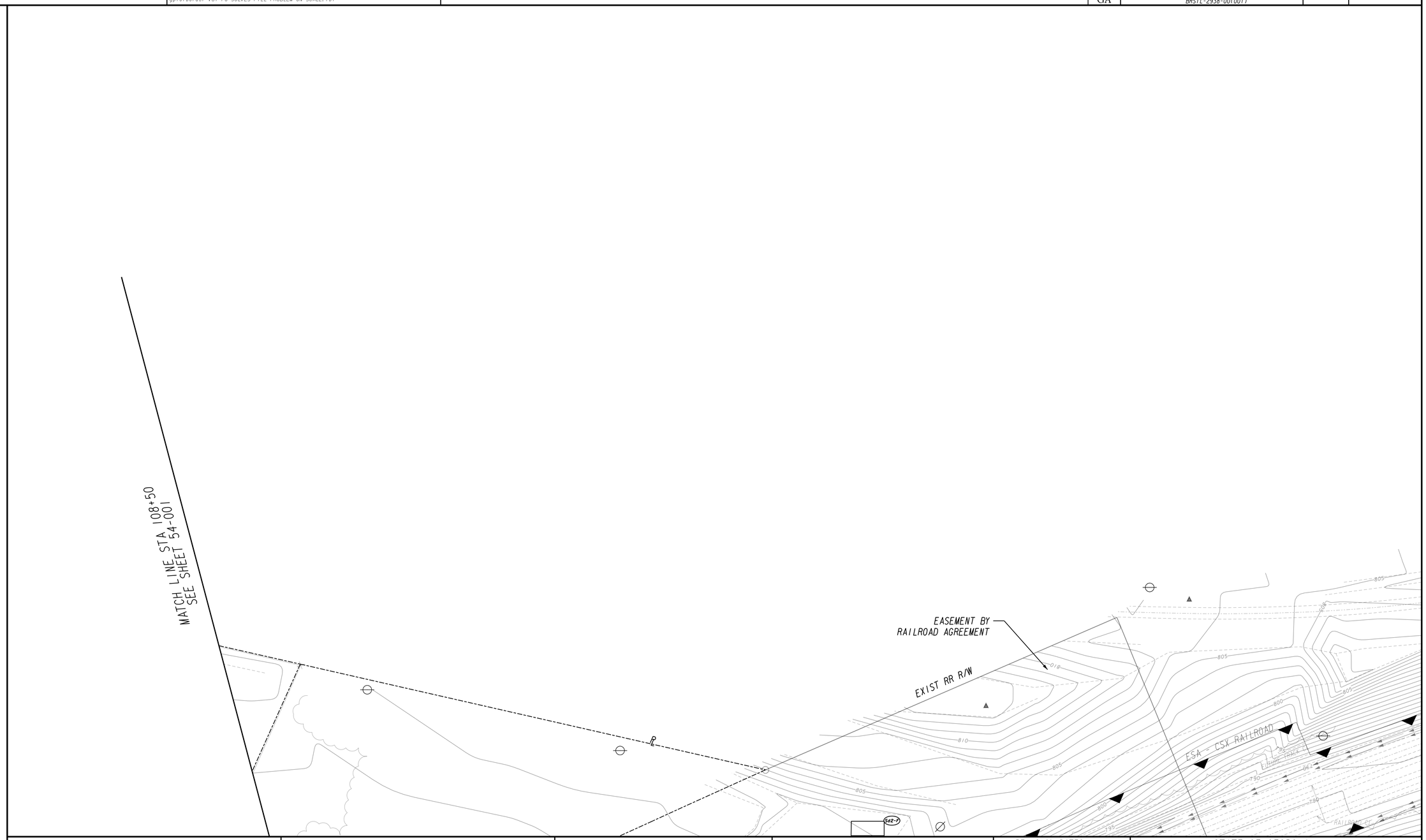

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

GEORGIA
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1A

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-004

6/20/2011 GPLN

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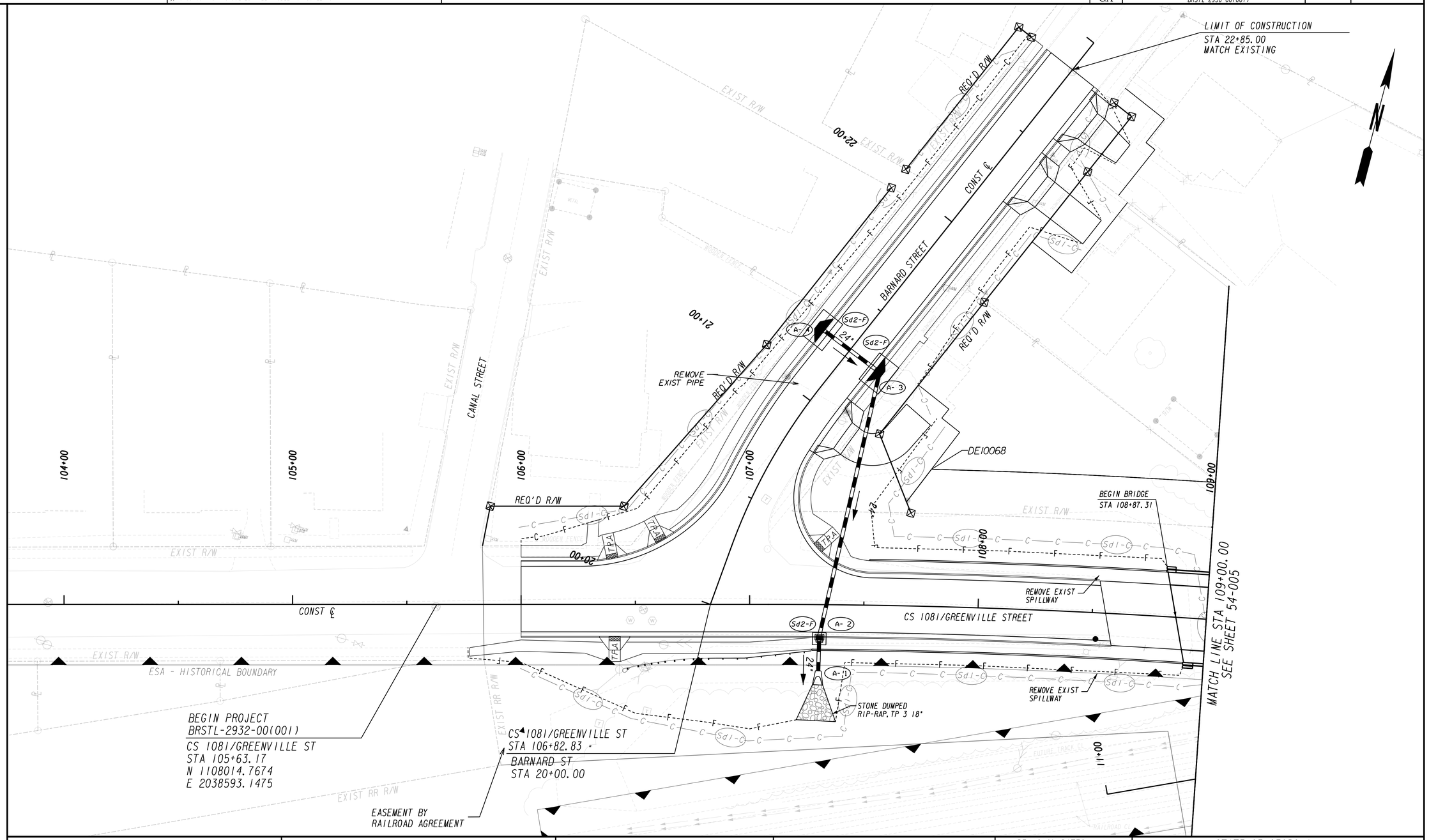

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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

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ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

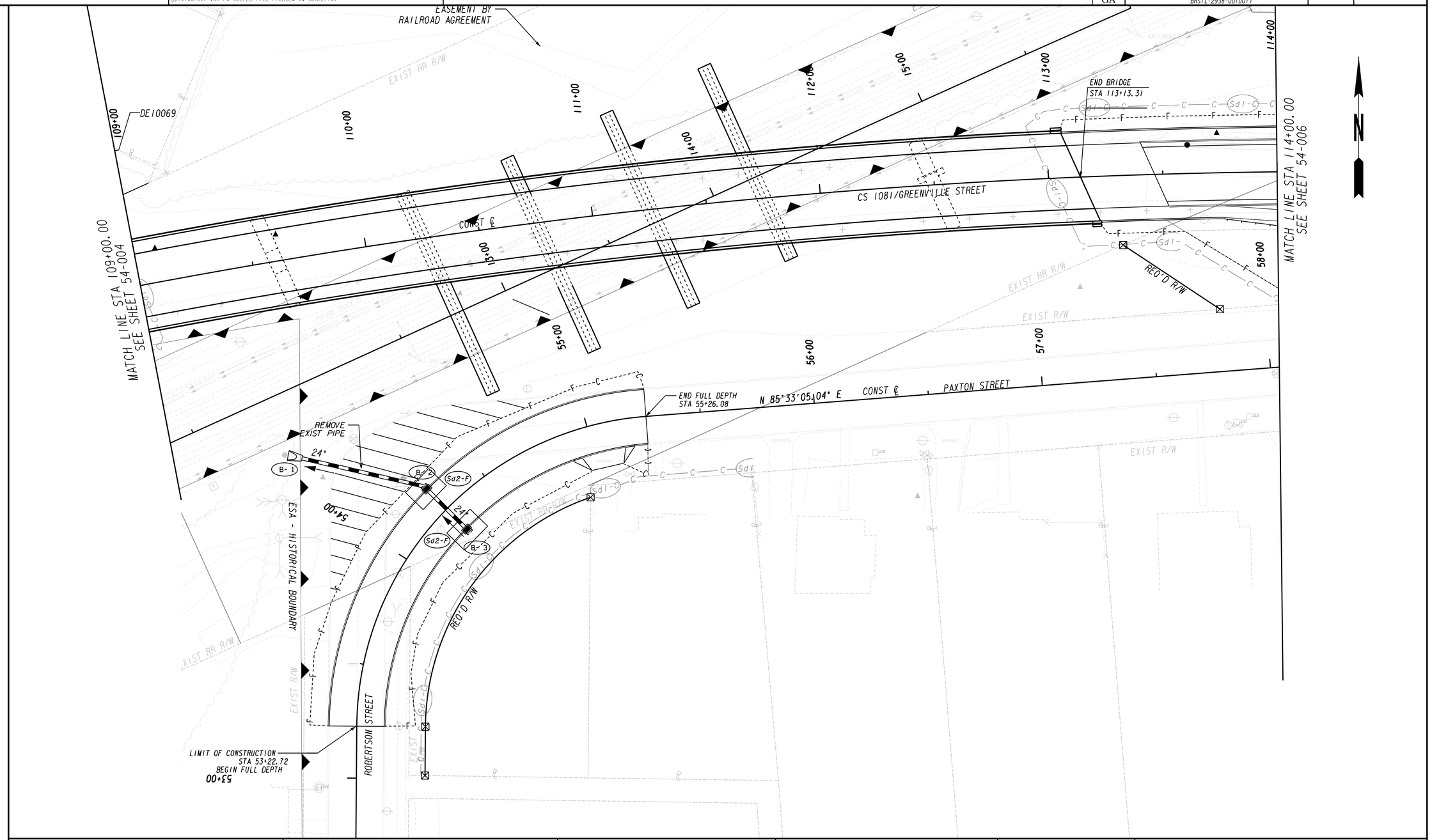
BMP LOCATION DETAILS
STAGE 1

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-005

6/20/2011 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2938-0010011)		



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

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

GEORGIA
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SCALE IN FEET
0 20 40 80

REVISION DATES

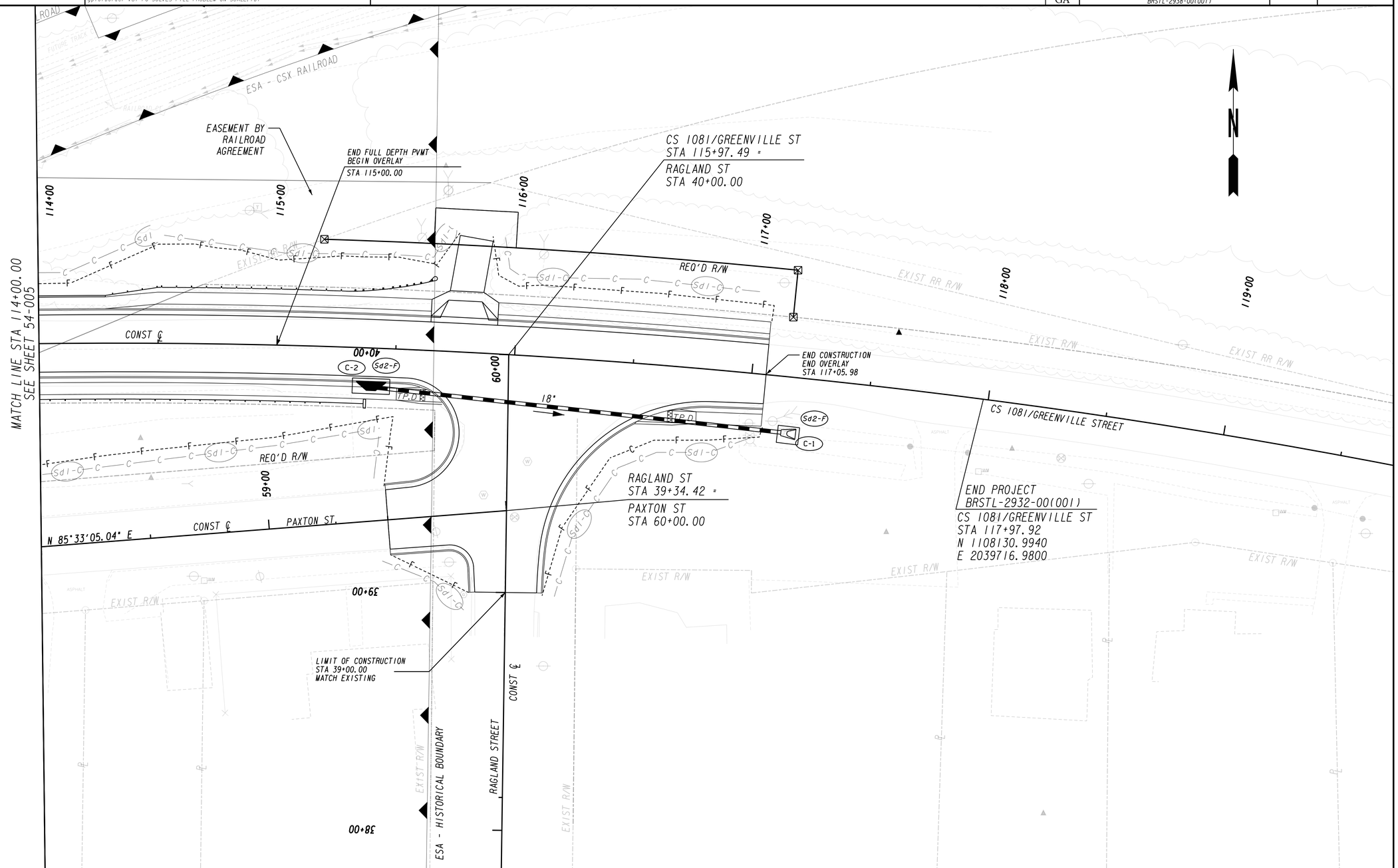
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-006

6/20/2011 GPLN



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

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

GEORGIA
DEPARTMENT OF TRANSPORTATION

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-007

6/20/2011 GPLN

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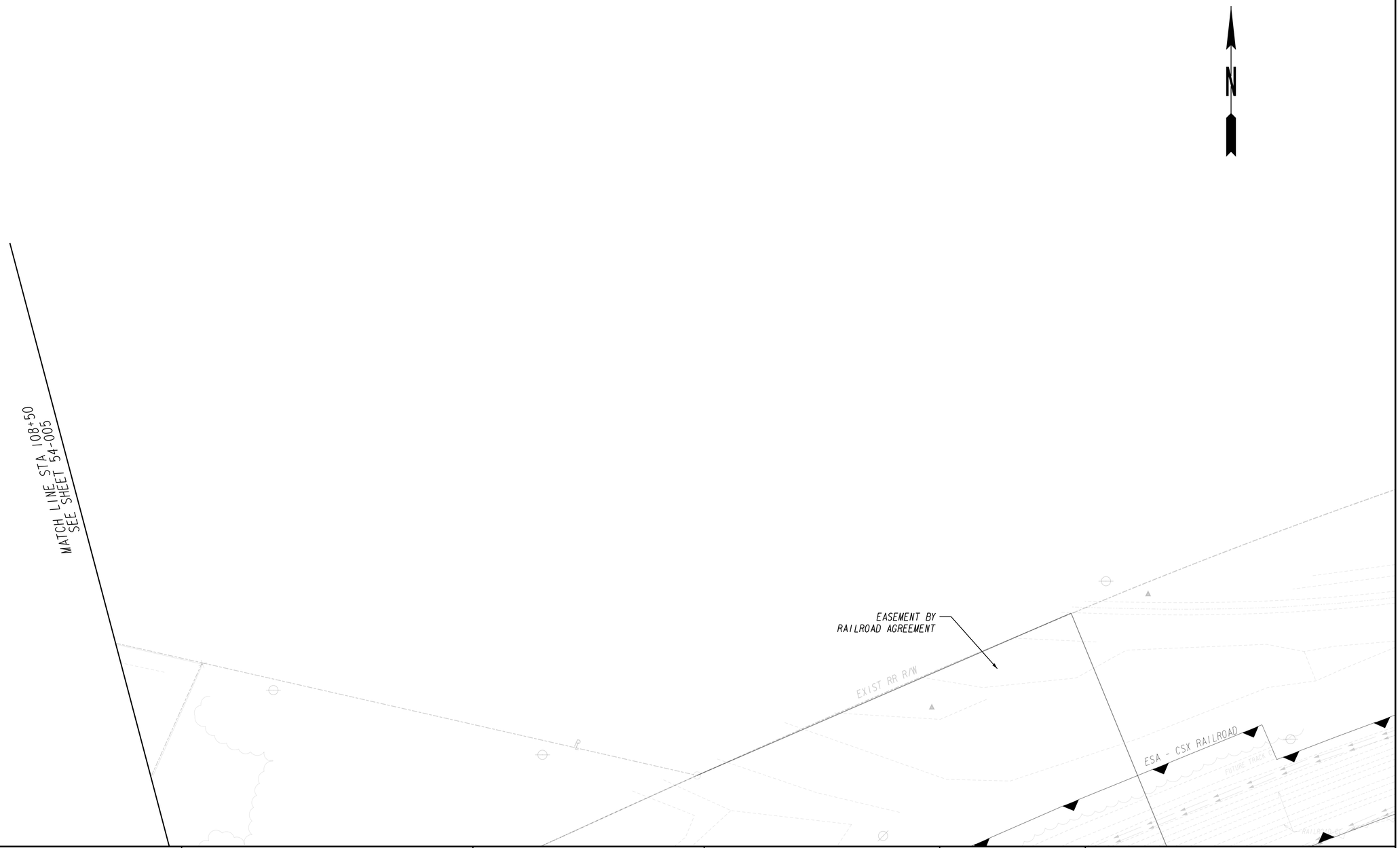

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

GEORGIA
DEPARTMENT OF TRANSPORTATION

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1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

BMP LOCATION DETAILS
STAGE 1

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 54-008

6/20/2011 GPLN

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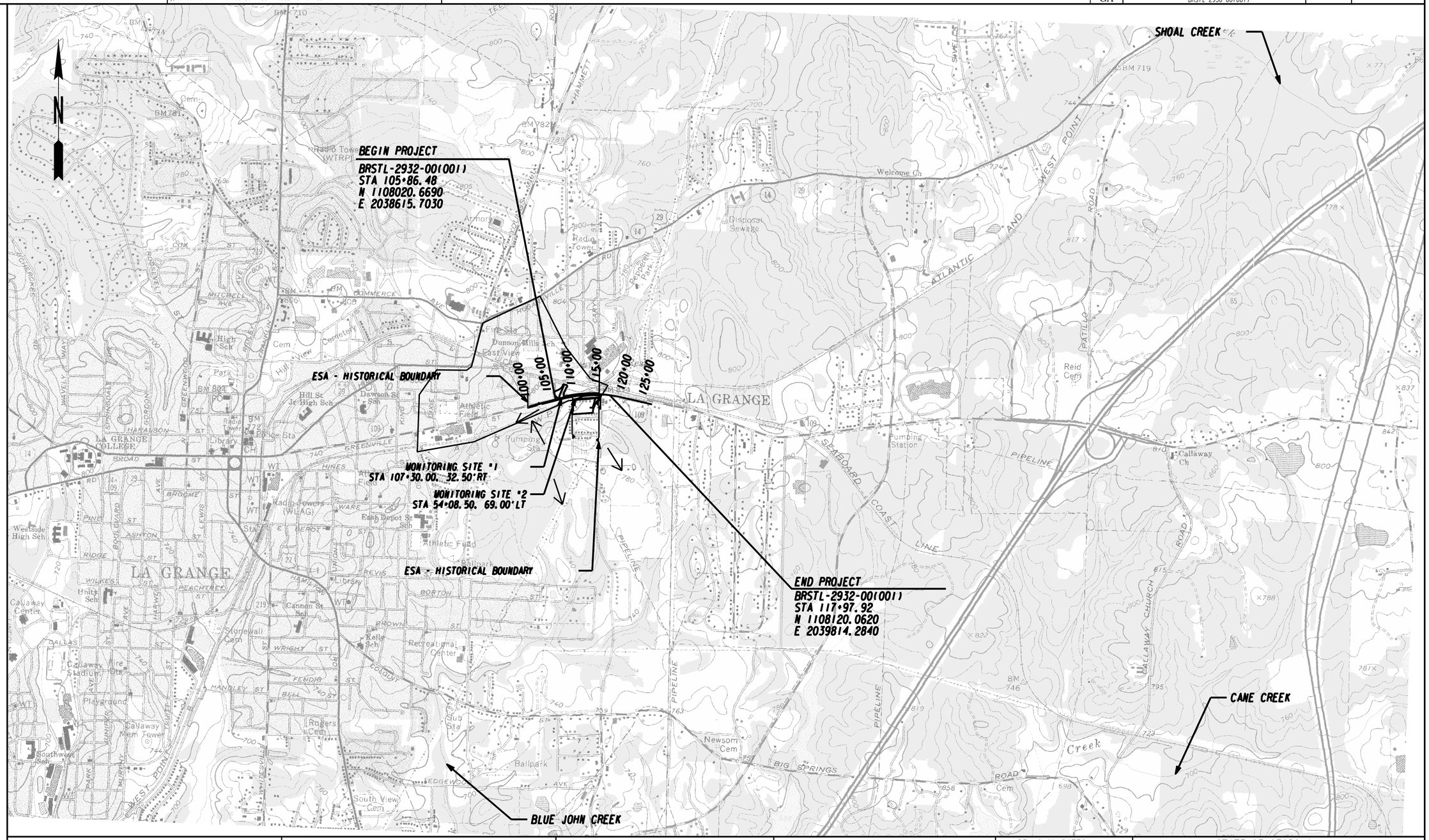

GEORGIA
DEPARTMENT OF TRANSPORTATION

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400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

WATERSHED MAP
SITE MONITORING PLAN

CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. 55-001

6/20/2011 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)	1	6

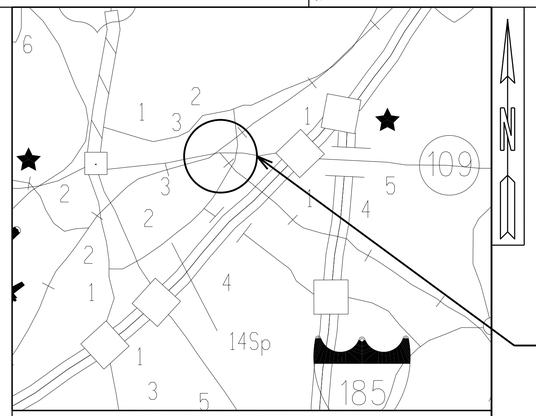
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RIGHT OF WAY OF PROPOSED
CS 1081/GREENVILLE ST @ CSX TRANSPORTATION
BRIDGE REPLACEMENT
TROUP COUNTY

FEDERAL AID PROJECT

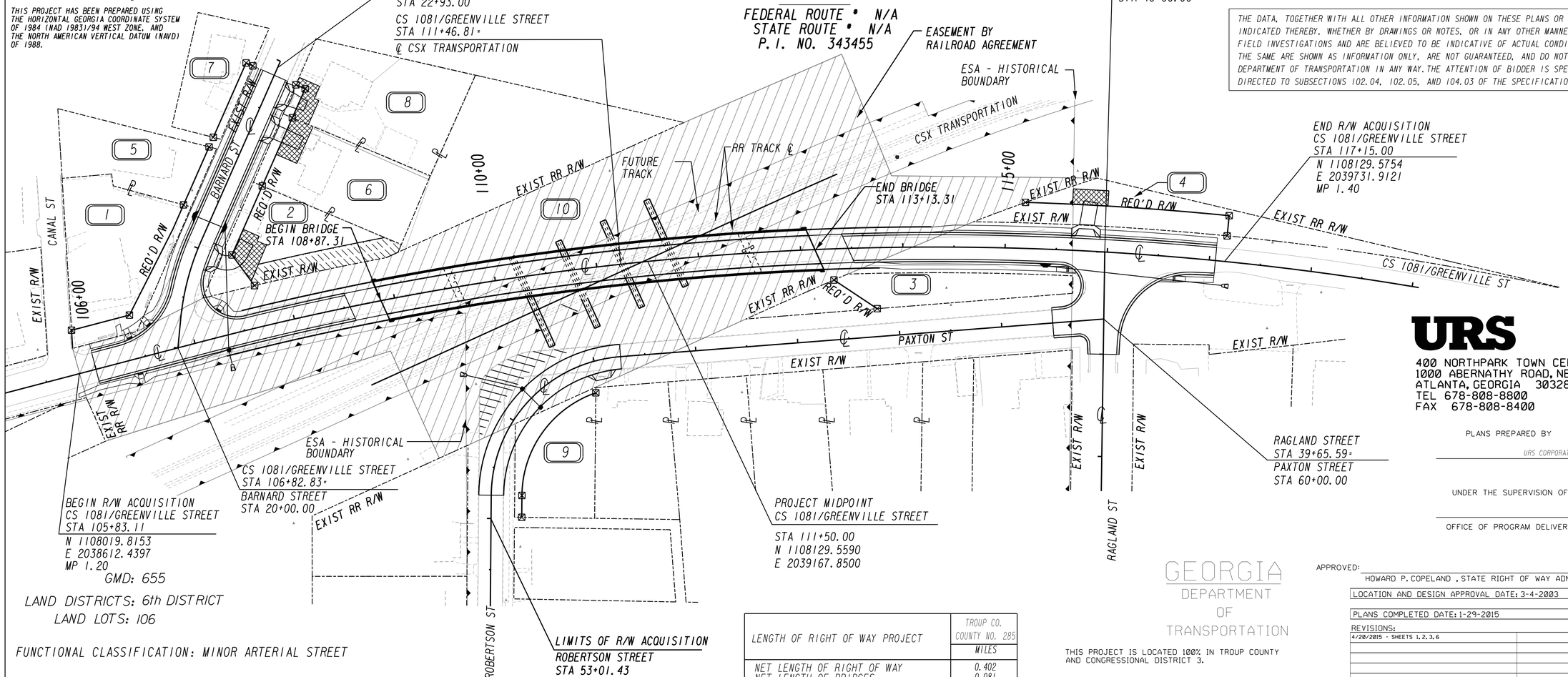
BRSTL-2932-00(001)

FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P. I. NO. 343455



LOCATION SKETCH (NTS)

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



GMD: 655

LAND DISTRICTS: 6th DISTRICT
LAND LOTS: 106

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL STREET

PROJECT NUMBER: 343455

COUNTY: TROUP COUNTY

LENGTH OF RIGHT OF WAY PROJECT	TROUP CO. COUNTY NO. 285 MILES
NET LENGTH OF RIGHT OF WAY	0.402
NET LENGTH OF BRIDGES	0.081
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF RIGHT OF WAY	0.402

GEORGIA DEPARTMENT OF TRANSPORTATION

THIS PROJECT IS LOCATED 100% IN TROUP COUNTY AND CONGRESSIONAL DISTRICT 3.

SCALE IN FEET
0 50 100 200

CONVENTIONAL SIGNS

STATE OR COUNTY LINE
CITY LIMIT LINE
LAND LOT LINE
PROPERTY LINE
SURVEY OR BASE LINE
RIGHT OF WAY LINE: EXISTING; REQUIRED; LIMIT OF ACCESS; REQD R/W & LIMIT OF ACCESS; R/W MARKERS
FENCE
RAILROAD
POWER LINE
TELEPHONE LINE
POWER POLES
TELEPHONE OR TELEGRAPH POLES

NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA", " STATE HIGHWAY DEPARTMENT", GEORGIA STATE HIGHWAY DEPARTMENT", " HIGHWAY DEPARTMENT", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, NE SUITE 900
ATLANTA, GEORGIA 30328
TEL 678-808-8800
FAX 678-808-8400

PLANS PREPARED BY
URS CORPORATION

UNDER THE SUPERVISION OF

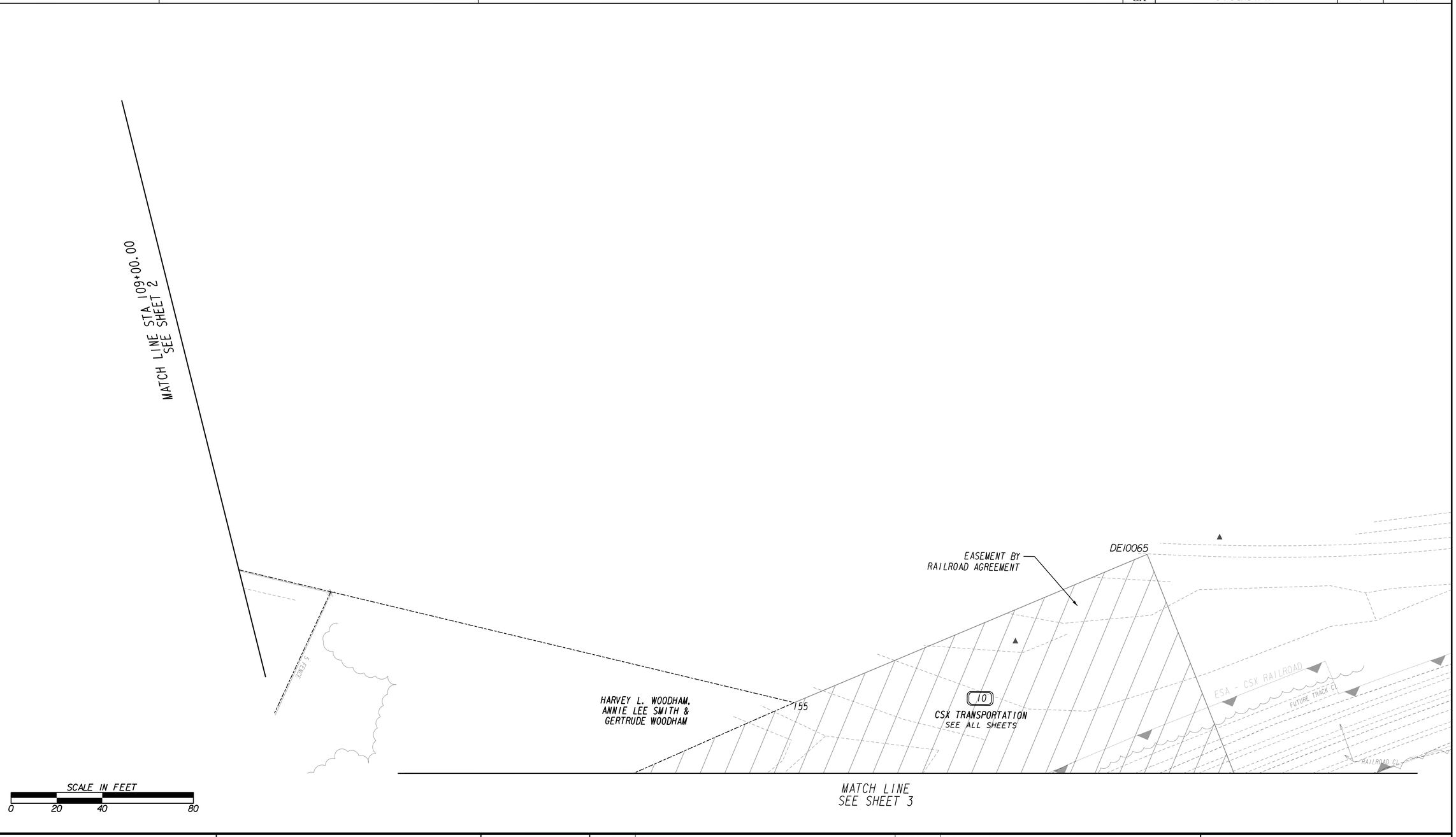
OFFICE OF PROGRAM DELIVERY

APPROVED:
HOWARD P. COPELAND , STATE RIGHT OF WAY ADMINISTRATOR DATE

LOCATION AND DESIGN APPROVAL DATE: 3-4-2003

PLANS COMPLETED DATE: 1-29-2015

REVISIONS:
4/20/2015 - SHEETS 1,2,3,6



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

URS
400 NORTHBARK TOWN CENTER
1888 ALBERNATHY ROAD NE, SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8480

GEORGIA
DEPARTMENT OF TRANSPORTATION

DATE	REVISIONS	DATE	REVISIONS

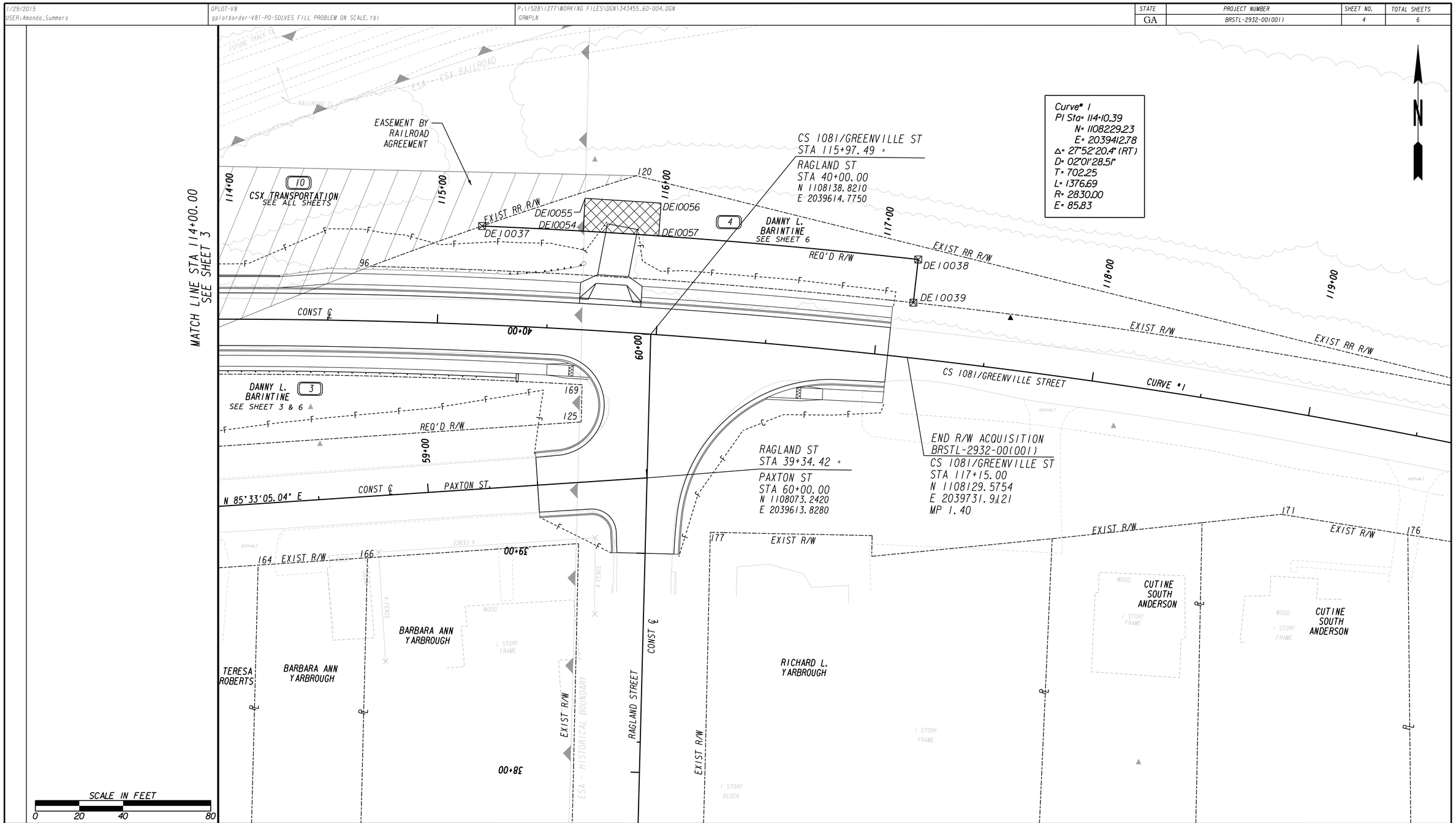
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PROPERTY MAP

PROJECT NO: 343455
COUNTY:TROUP
LAND LOT NO: 106
LAND DISTRICT: 6TH
GMD 655
DATE 1-29-2015 SH 5 OF 6

5/20/2011

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)	4	6



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

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, N.E., SUITE 900
ATLANTA, GEORGIA 30328
TEL: (678) 808-8800 FAX: (678) 808-8400

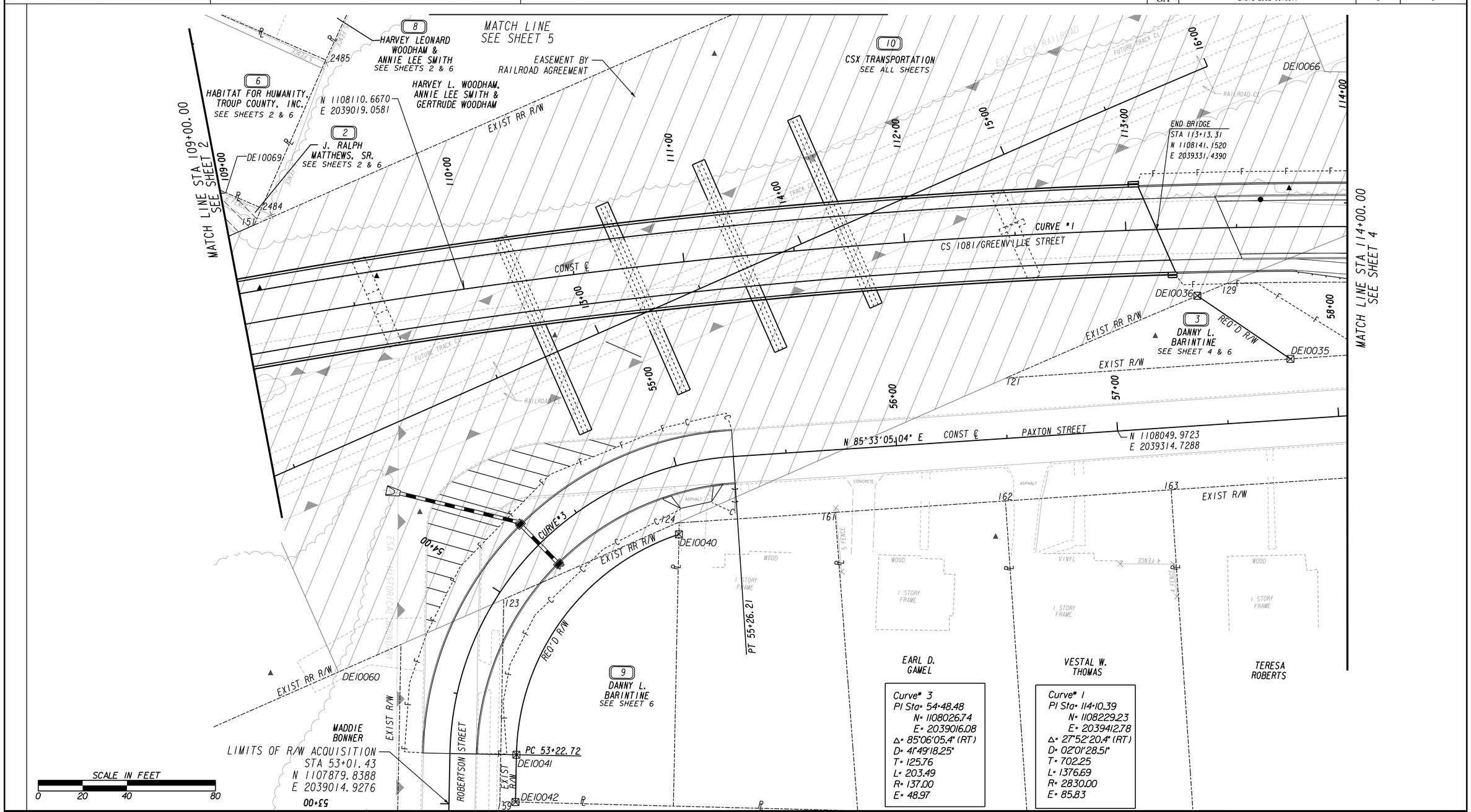
GEORGIA
DEPARTMENT OF TRANSPORTATION

DATE	REVISIONS	DATE	REVISIONS

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PROPERTY MAP

PROJECT NO: 343455
COUNTY: TROUP
LAND LOT NO: 106
LAND DISTRICT: 6TH
GMD 655
DATE 1-29-2015 SH 4 OF 6



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

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1000 ABERNATHY ROAD, N.E., SUITE 900
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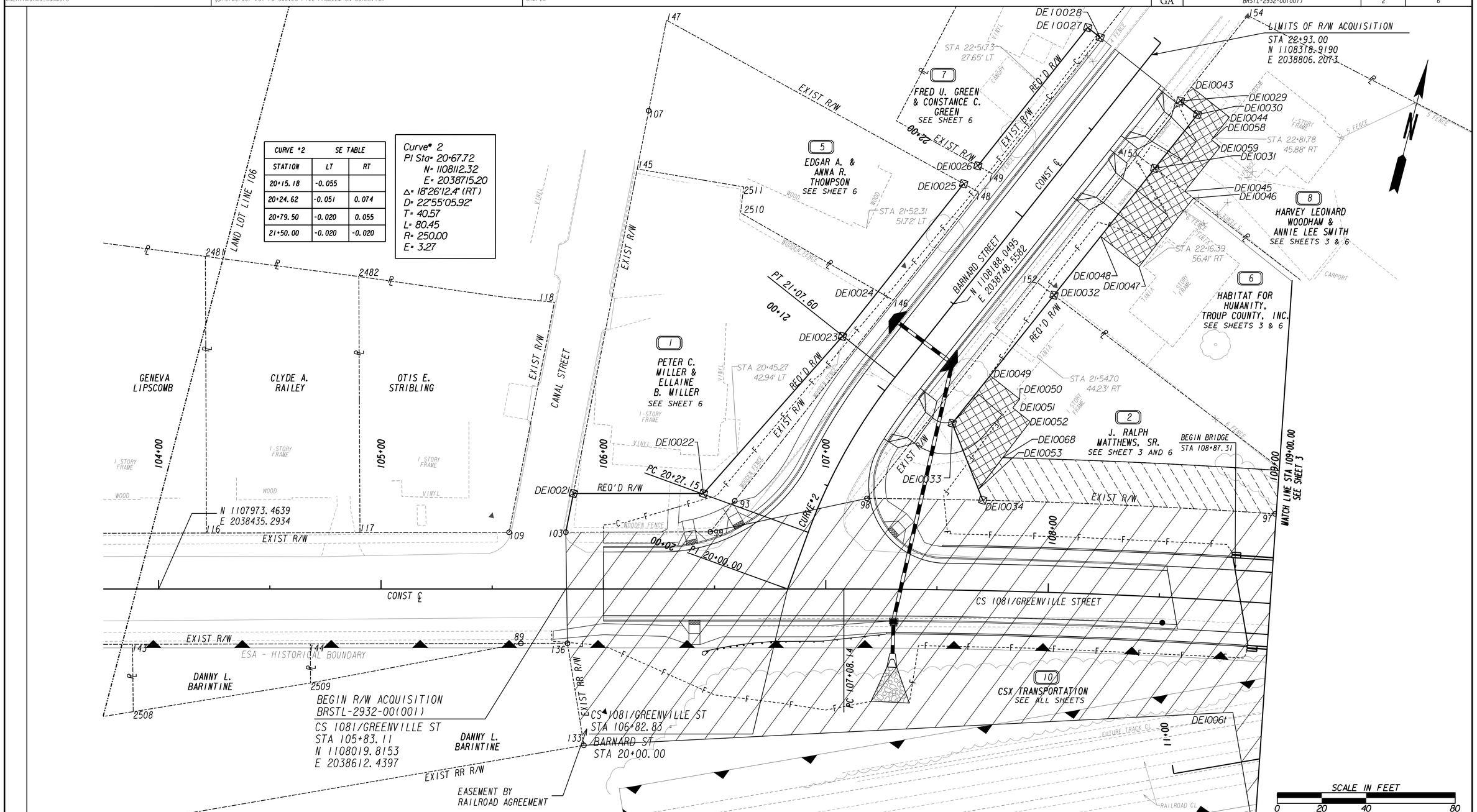
GEORGIA
DEPARTMENT OF TRANSPORTATION

DATE	REVISIONS	DATE	REVISIONS
4/2/2015	ADD TEMPORARY EASEMENT TO PARCEL 2		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PROPERTY MAP

PROJECT NO: 343455
COUNTY: TROUP
LAND LOT NO: 106
LAND DISTRICT: 6TH
GMD 655
DATE 1-29-2015 SH 3 OF 6



CURVE #2	SE TABLE	
STATION	LT	RT
20+15.18	-0.055	
20+24.62	-0.051	0.074
20+79.50	-0.020	0.055
21+50.00	-0.020	-0.020

Curve# 2
PI Sta= 20+67.72
N= 1108112.32
E= 2038715.20
Δ= 18°26'12.4" (RT)
D= 22°55'05.92"
T= 40.57
L= 80.45
R= 250.00
E= 3.27

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

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400 NORTHPARK TOWN CENTER
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GEORGIA DEPARTMENT OF TRANSPORTATION

DATE	REVISIONS	DATE	REVISIONS
4/2/2015	ADD TEMPORARY EASEMENT TO PARCEL 2		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PROPERTY MAP

PROJECT NO: 343455
COUNTY: TROUP
LAND LOT NO: 106
LAND DISTRICT: 6TH
GMD 655
DATE 1-29-2015 SH 2 OF 6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)	1	6

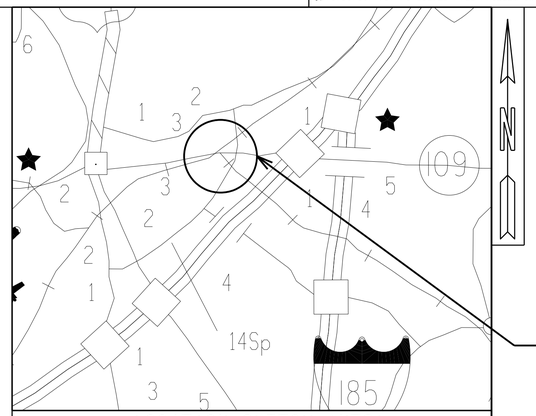
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

RIGHT OF WAY OF PROPOSED
CS 1081/GREENVILLE ST @ CSX TRANSPORTATION
BRIDGE REPLACEMENT
TROUP COUNTY

FEDERAL AID PROJECT

BRSTL-2932-00(001)

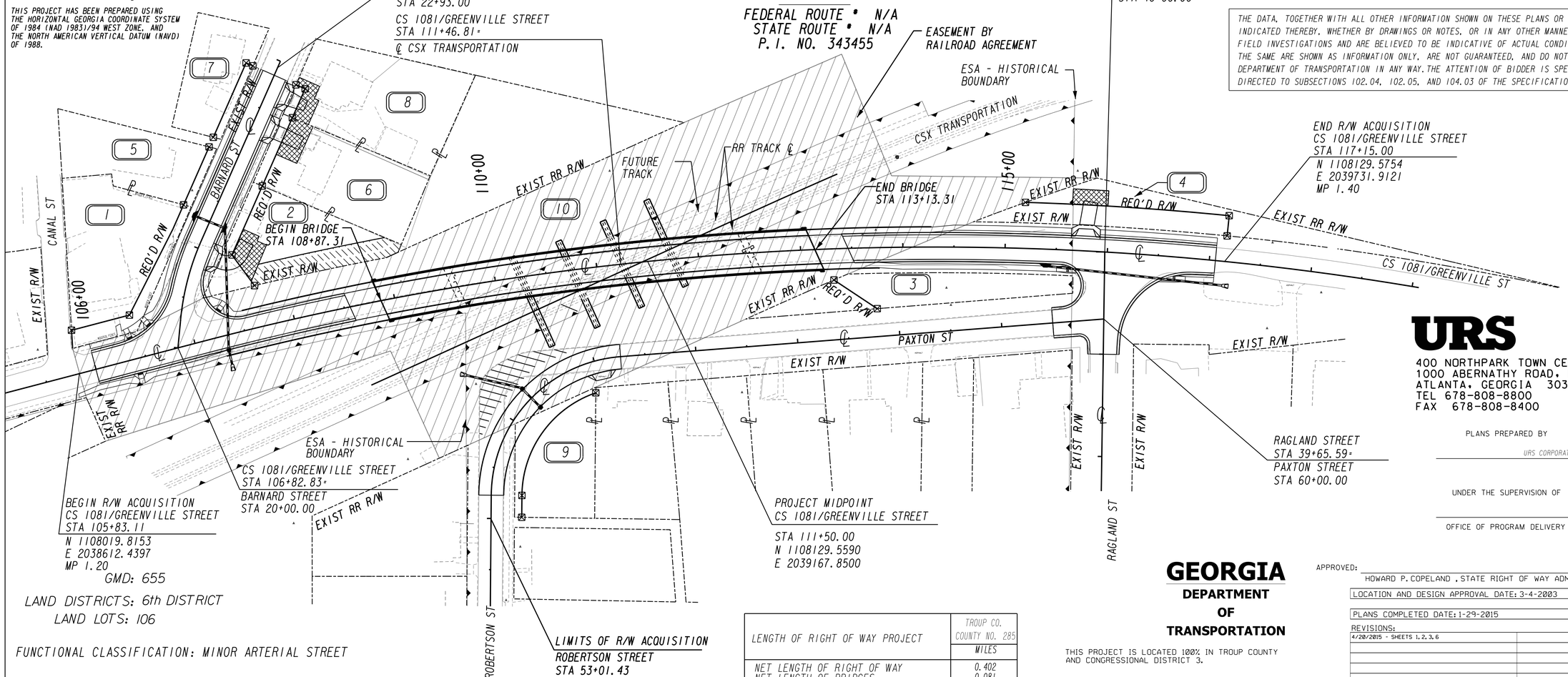
FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P. I. NO. 343455



LOCATION SKETCH (NTS)

PROJECT LOCATION

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



GMD: 655

LAND DISTRICTS: 6th DISTRICT
LAND LOTS: 106

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL STREET

PROJECT NUMBER: 343455

COUNTY: TROUP COUNTY

LENGTH OF RIGHT OF WAY PROJECT	TROUP CO. COUNTY NO. 285 MILES
NET LENGTH OF RIGHT OF WAY	0.402
NET LENGTH OF BRIDGES	0.081
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF RIGHT OF WAY	0.402

THIS PROJECT IS LOCATED 100% IN TROUP COUNTY AND CONGRESSIONAL DISTRICT 3.

SCALE IN FEET
0 50 100 200

CONVENTIONAL SIGNS

STATE OR COUNTY LINE
CITY LIMIT LINE
LAND LOT LINE
PROPERTY LINE
SURVEY OR BASE LINE
RIGHT OF WAY LINE
- EXISTING
- REQUIRED
- LIMIT OF ACCESS
- REQD R/W & LIMIT OF ACCESS
- R/W MARKERS

FENCE
RAILROAD
POWER LINE
TELEPHONE LINE
POWER POLES
TELEPHONE OR TELEGRAPH POLES

NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA", " STATE HIGHWAY DEPARTMENT", GEORGIA STATE HIGHWAY DEPARTMENT", " HIGHWAY DEPARTMENT", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA MEAN, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

URS
400 NORTHPARK TOWN CENTER
1000 ABERNATHY ROAD, NE SUITE 900
ATLANTA, GEORGIA 30328
TEL 678-808-8800
FAX 678-808-8400

PLANS PREPARED BY
URS CORPORATION

UNDER THE SUPERVISION OF

OFFICE OF PROGRAM DELIVERY

GEORGIA
DEPARTMENT OF TRANSPORTATION

APPROVED:
HOWARD P. COPELAND , STATE RIGHT OF WAY ADMINISTRATOR DATE

LOCATION AND DESIGN APPROVAL DATE: 3-4-2003

PLANS COMPLETED DATE: 1-29-2015

REVISIONS:
4/20/2015 - SHEETS 1,2,3,6

1

PETER C. MILLER & ELLAINE B. MILLER
SEE SHEET 2

RW TAKE - PAR 1/SV37 REQ'D R/W DE20

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
103	25.58 L	105+83.11	C/L GREENVILLE ST
	17.75	N 3°32'54.4" W	
DE10021	43.00 L	105+86.53	C/L GREENVILLE ST
	58.47	N 75°20'12.9" E	
DE10022	43.00 L	106+45.00	C/L GREENVILLE ST
	94.40	N 26°48'36.5" E	
DE10023	30.00 L	21+07.60	C/L BARNARD ST
	25.78	N 23°46'26.0" E	
DE10024	30.00 L	21+33.37	C/L BARNARD ST
	7.78	S 74°54'31.3" E	
146	22.31 L	21+34.55	C/L BARNARD ST
	115.06	S 23°34'18.0" W	
93	35.89 L	20+29.07	C/L BARNARD ST
	17.77	S 23°34'18.0" W	
99	41.44 L	20+12.30	C/L BARNARD ST
	64.98	S 75°12'13.0" W	
103	25.58 L	105+83.11	C/L GREENVILLE ST

Required R/W = 2336.14 SF
Required R/W = 0.05 Acres
REMAINDER = +/- 0.274 ACRES

2

J. RALPH MATTHEWS, SR.
SEE SHEET 2 AND 3

RW TAKE - PAR 2/SV40 REQ'D R/W DE23

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
98	40.80 L	107+18.37	C/L GREENVILLE ST
	123.77	N 23°34'18.0" E	
152	23.53 R	21+81.06	C/L BARNARD ST
	9.47	S 67°11'35.3" E	
DE10032	33.00 R	21+81.22	C/L BARNARD ST
	73.63	S 23°46'26.0" W	
DE10033	33.00 R	21+07.34	C/L BARNARD ST
	37.21	S 36°18'51.6" E	
DE10034	40.67 L	107+69.72	C/L GREENVILLE ST
	52.08	S 76°12'49.2" W	
98	40.80 L	107+18.37	C/L GREENVILLE ST

Required R/W = 1813.92 SF
Required R/W = 0.04 Acres
REMAINDER = +/- 0.198 ACRES

TEMP ESMT - PAR 2/SV40 REQ'D TEMP. EASM'T. DE34

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10034	40.67 L	107+69.72	C/L GREENVILLE ST
	52.08	S 76°12'49.2" W	
DE10053	45.48 L	107+67.72	C/L GREENVILLE ST
	17.96	N 22°41'55.1" E	
DE10068	60.00 L	107+78.09	C/L GREENVILLE ST
ARC LENGTH = 126.29			
CHORD BEAR = N 78°00'18.0" E			
LNTH CHORD = 126.28			
RADIUS = 2890.00			
DEGREE = 02°30'13.8"			
DE10069	60.00 L	109+01.76	C/L GREENVILLE ST
	17.55	S 67°11'35.3" E	
2484	50.34 L	109+16.13	C/L GREENVILLE ST
	8.30	S 22°48'37.8" W	
151	43.40 L	109+11.64	C/L GREENVILLE ST
	12.75	S 65°35'04.9" W	
97	40.37 L	108+99.44	C/L GREENVILLE ST
ARC LENGTH = 131.58			
CHORD BEAR = N 78°01'30.2" E			
LNTH CHORD = 131.57			
RADIUS = 2904.79			
DEGREE = 01°58'20.9"			
DE10034	40.67 L	107+69.72	C/L GREENVILLE ST

Required Easement = 2744.28 SF
Required Easement = 0.06 Acres

3

DANNY L. BARINTINE
SEE SHEETS 3 AND 4

RW TAKE - PAR 3/SV56 REQ'D R/W DE25

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10036	30.43 R	113+31.59	C/L GREENVILLE ST
ARC LENGTH = 14.56			
CHORD BEAR = N 66°35'33.3" W			
LNTH CHORD = 14.56			
RADIUS = 6150.00			
DEGREE = 00°55'53.9"			
129	25.09 R	113+45.27	C/L GREENVILLE ST
ARC LENGTH = 220.33			
CHORD BEAR = N 89°32'10.0" W			
LNTH CHORD = 220.28			
RADIUS = 2839.79			
DEGREE = 02°01'03.4"			
169	25.00 R	115+67.57	C/L GREENVILLE ST
	16.99	S 0°37'22.1" W	
125	41.98 R	115+68.21	C/L GREENVILLE ST
	191.74	S 85°29'54.9" W	
DE10035	59.65 R	113+73.75	C/L GREENVILLE ST
	50.75	N 56°28'01.4" W	
DE10036	30.43 R	113+31.59	C/L GREENVILLE ST

Required R/W = 5944.80 SF
Required R/W = 0.14 Acres
REMAINDER = +/- 0.136 ACRES

2

J. RALPH MATTHEWS, SR.
SEE SHEET 2 AND 3

Driveway ESMT - PAR 2/SV40 REQ'D DRWY. EASM'T. DE30

PNT	OFFSET/	STATION/	ALIGNMENT
DE10033	33.00 R	21+07.34	C/L Barnard Street
DE10049	33.00 R	21+35.00	C/L Barnard Street
DE10050	50.00 R	21+35.00	C/L Barnard Street
DE10051	50.00 R	21+30.00	C/L Barnard Street
DE10052	60.00 R	21+30.00	C/L Barnard Street
DE10053	60.03 R	20+86.29	C/L Barnard Street
DE10033	33.00 R	21+07.34	C/L Barnard Street

4

DANNY L. BARINTINE
SEE SHEET 4

RW TAKE - PAR 4/SV57 REQ'D R/W DE24

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
96	24.93 L	114+68.73	C/L GREENVILLE ST
	54.28	N 69°32'26.5" E	
DE10037	45.00 L	115+18.55	C/L GREENVILLE ST
ARC LENGTH = 199.57			
CHORD BEAR = S 86°16'01.1" E			
LNTH CHORD = 199.53			
RADIUS = 2875.00			
DEGREE = 01°59'34.4"			
DE10038	45.00 L	117+15.00	C/L GREENVILLE ST
	19.83	S 5°43'18.0" W	
DE10039	25.17 L	117+15.00	C/L GREENVILLE ST
ARC LENGTH = 248.44			
CHORD BEAR = N 86°49'35.5" W			
LNTH CHORD = 248.37			
RADIUS = 2889.79			
DEGREE = 01°58'57.7"			
96	24.93 L	114+68.73	C/L GREENVILLE ST

Required R/W = 4467.57 SF
Required R/W = 0.10 ACRES
REMAINDER = +/- 0.146 ACRES

5

EDGAR A. & ANNA R. THOMPSON
SEE SHEET 2

RW TAKE - PAR 5/SV38 REQ'D R/W DE21

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
146	22.31 L	21+34.55	C/L BARNARD ST
	7.78	N 74°54'31.3" W	
DE10024	30.00 L	21+33.37	C/L BARNARD ST
	61.86	N 23°46'26.0" E	
DE10025	30.00 L	21+95.24	C/L BARNARD ST
	7.58	S 75°48'09.3" E	
148	22.53 L	21+96.50	C/L BARNARD ST
	61.95	S 23°34'18.0" W	
146	22.31 L	21+34.55	C/L BARNARD ST

Required R/W = 469.46 SF
Required R/W = 0.01 Acres
REMAINDER = +/- 0.187 ACRES

6

HABITAT FOR HUMANITY, TROUP COUNTY, INC.
SEE SHEETS 2 AND 3

RW TAKE - PAR 6/SV41 REQ'D R/W DE26

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
152	23.53 R	21+81.06	C/L BARNARD ST
	72.89	N 23°34'18.0" E	
153	23.27 R	22+53.96	C/L BARNARD ST
	9.73	S 67°11'35.3" E	
DE10031	33.00 R	22+54.12	C/L BARNARD ST
	72.90	S 23°46'26.0" W	
DE10032	33.00 R	21+81.22	C/L BARNARD ST
	9.47	N 67°11'35.3" W	
152	23.53 R	21+81.06	C/L BARNARD ST

Required R/W = 699.97 SF
Required R/W = 0.02 Acres
REMAINDER = +/- 0.246 ACRES

Driveway ESMT - PAR 6/SV41 REQ'D DRWY. EASM'T. DE31

PNT	OFFSET/	STATION/	ALIGNMENT
DE10048	33.00 R	22+15.00	C/L Barnard Street
DE10031	33.00 R	22+54.12	C/L Barnard Street
DE10046	55.00 R	22+54.49	C/L Barnard Street
DE10047	55.00 R	22+15.00	C/L Barnard Street
DE10048	33.00 R	22+15.00	C/L Barnard Street

Driveway ESMT - PAR 4/SV57 REQ'D DRWY. EASM'T. DE33

PNT	OFFSET/	STATION/	ALIGNMENT
DE10054	45.00 L	115+64.00	C/L Greenville Street
DE10055	60.00 L	115+64.00	C/L Greenville Street
DE10056	60.00 L	115+98.00	C/L Greenville Street
DE10057	45.00 L	115+98.00	C/L Greenville Street
ARC LENGTH = 34.54			
CHORD BEAR = N 86°59'28.6" W			
LNTH CHORD = 34.54			
RADIUS = 2875.00			
DEGREE = 01°59'34.6"			
DE10054	45.00 L	115+64.00	C/L Greenville Street

7

FRED U. GREEN & CONSTANCE C. GREEN
SEE SHEET 2

RW TAKE - PAR 7/SV39 REQ'D R/W DE22

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
149	22.56 L	22+06.79	C/L BARNARD ST
	7.54	N 75°44'54.1" W	
DE10026	30.00 L	22+05.54	C/L BARNARD ST
	79.46	N 23°46'26.0" E	
DE10027	30.00 L	22+85.00	C/L BARNARD ST
	7.16	S 66°13'30.60" E	
DE10028	22.84 L	22+85.00	C/L BARNARD ST
	78.22	S 23°34'18.0" W	
149	22.56 L	22+06.79	C/L BARNARD ST

Required R/W = 575.42 SF
Required R/W = 0.01 Acres
REMAINDER = +/- 0.147 ACRES

8

HARVEY LEONARD WOODHAM & ANNIE LEE SMITH
SEE SHEETS 2 & 3

RW TAKE - PAR 8/SV42 REQ'D R/W DE27

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
153	23.27 R	22+53.96	C/L BARNARD ST
	31.04	N 23°34'18.0" E	
DE10029	23.16 R	22+85.00	C/L BARNARD ST
	9.84	S 66°13'34.0" E	
DE10030	33.00 R	22+85.00	C/L BARNARD ST
	30.88	S 23°46'26.0" W	
DE10031	33.00 R	22+54.12	C/L BARNARD ST
	9.73	N 67°11'35.3" W	
153	23.27 R	22+53.96	C/L BARNARD ST

Required R/W = 302.95 SF
Required R/W = 0.01 Acres
REMAINDER = +/- 0.330 ACRES

Driveway ESMT - PAR 8/SV42 REQ'D DRWY. EASM'T. DE32

PNT	OFFSET/	STATION/	ALIGNMENT
DE10031	33.00 R	22+54.12	C/L Barnard Street
DE10030	33.00 R	22+85.00	C/L Barnard Street
DE10029	23.16 R	22+85.00	C/L Barnard Street
DE10043	23.13 R	22+93.00	C/L Barnard Street
DE10044	45.00 R	22+93.00	C/L Barnard Street
DE10058	45.00 R	22+80.00	C/L Barnard Street
DE10059	50.00 R	22+80.00	C/L Barnard Street
DE10045	50.00 R	22+54.41	C/L Barnard Street
DE10031	33.00 R	22+54.12	C/L Barnard Street

9

DANNY L. BARINTINE
SEE SHEET 3

RW TAKE - PAR 9/SV49 REQ'D R/W DE28

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
159	22.92 R	53+01.43	C/L PAXTON ST
	91.38	N 0°27'35.0" E	
123	3.12 R	53+98.21	C/L PAXTON ST
	85.40	N 65°35'04.9" E	
124	24.86 R	54+92.40	C/L PAXTON ST
	5.19	S 10°42'07.0" E	
DE10040	30.00 R	54+91.49	C/L PAXTON ST
ARC LENGTH = 131.81			
CHORD BEAR = S 35°44'26.3" W			
LNTH CHORD = 123.63			
RADIUS = 107.00			
DEGREE = 53°32'50.8"			
DE10041	30.00 R	53+22.72	C/L PAXTON ST
	21.34	S 0°27'04.7" W	
DE10042	30.00 R	53+01.38	C/L PAXTON ST
	7.08	N 89°10'47.5" W	
159	22.92 R	53+01.43	C/L PAXTON ST

Required R/W = 1820.56 SF
Required R/W = 0.04 Acres
REMAINDER = +/- 0.156 ACRES

10

CSX TRANSPORTATION
SEE ALL SHEETS

RR TAKE - PAR 10 REQ'D EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10060	54.40 L	109+14.63	C/L PAXTON ST
	115.17	N 24°26'53.0" W	
DE10061	50.00 R	108+86.33	C/L GREENVILLE ST
	292.21	S 72°25'45.9" W	
133	70.33 R	105+91.24	C/L GREENVILLE ST
	46.50	N 23°49'10.4" W	
136	24.42 R	105+83.84	C/L GREENVILLE ST
	50.14	N 19°03'12.1" W	
DE10064	25.57 L	105+80.00	C/L GREENVILLE ST
	68.10	N 75°12'13.0" E	
99	25.73 L	106+48.10	C/L GREENVILLE ST
	72.02	N 63°16'12.9" E	
98	40.80 L	107+18.37	C/L GREENVILLE ST
ARC LENGTH = 183.67			
CHORD BEAR = N 77°30'41.0"E			
LNTH CHORD = 183.64			
RADIUS = 2904.79			
DEGREE = 01°58'20.9"			
97	40.37 L	108+99.44	C/L GREENVILLE ST
	12.75	N 65°35'04.9"	
151	43.40 L	109+11.64	C/L GREENVILLE ST
	306.97	N 65°35'27.9" E	
155	132.00 L	111+96.87	C/L GREENVILLE ST
	167.93	N 66°32'32.7" E	
DE10065	190.00 L	113+46.00	C/L GREENVILLE ST
	128.52	S 22°17'10.9" E	
DE10066	70.00 L	113+90.00	C/L GREENVILLE ST
	201.01	S 89°21'52.9" E	
120	71.73 L	115+86.14	C/L GREENVILLE ST
ARC LENGTH = 128.26			
CHORD BEAR = S 70°31'35.0"E			
LNTH CHORD = 128.24			
RADIUS = 2150.00			
DEGREE = 02°39'53.7"			
96	24.93 L	114+68.73	C/L GREENVILLE ST
	133.19	S 67°25'58.2" W	
129	25.09 R	113+45.27	C/L GREENVILLE ST
	108.64	S 66°09'15.7" W	
121	64.10 R	112+42.24	C/L GREENVILLE ST
	162.25	S 65°34'16.3" W	
124	116.88 R	110+83.72	C/L GREENVILLE ST
	85.40	S 65°35'04.9" W	
123	141.12 R	109+97.91	C/L GREENVILLE ST
	81.52	S 65°35'04.9" W	
DE10060	161.91 R	109+14.63	C/L GREENVILLE ST

Required Easement = 135828.91 SF
Required Easement = 3.12 Acres

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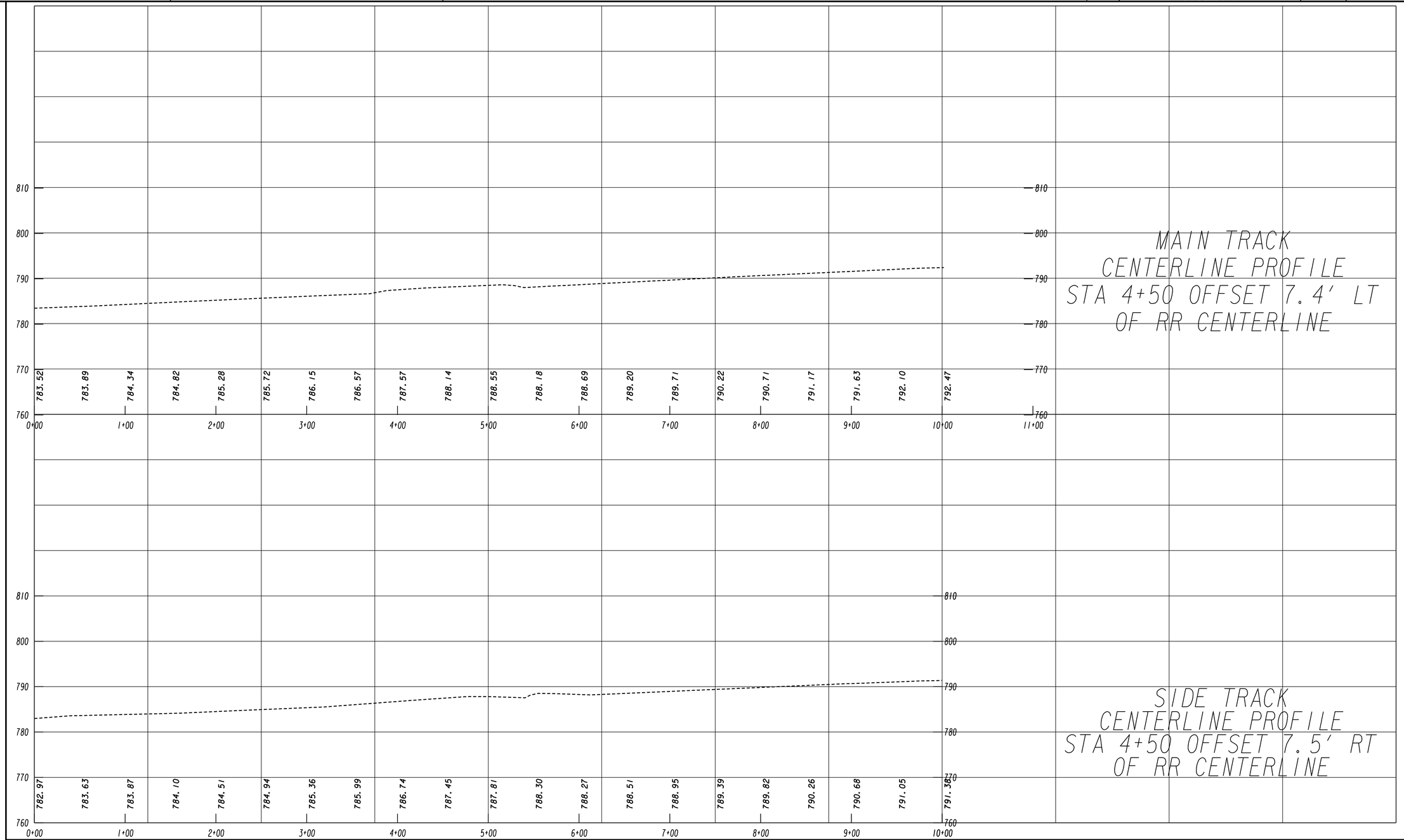
DATE	REVISIONS	DATE	REVISIONS
4/2/2015	ADD TEMPORARY EASEMENT TO PARCEL 2		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PROPERTY MAP

PROJECT NO: 343455
COUNTY: TROUP
LAND LOT NO: 106
LAND DISTRICT: 6TH
GMD 655
DATE 1-29-2014 SH 6 OF 6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-001(001)		



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SCALE: 1"=50' HORIZ.
1"=10' VERT.

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REVISION DATES

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RAILROAD PROFILE

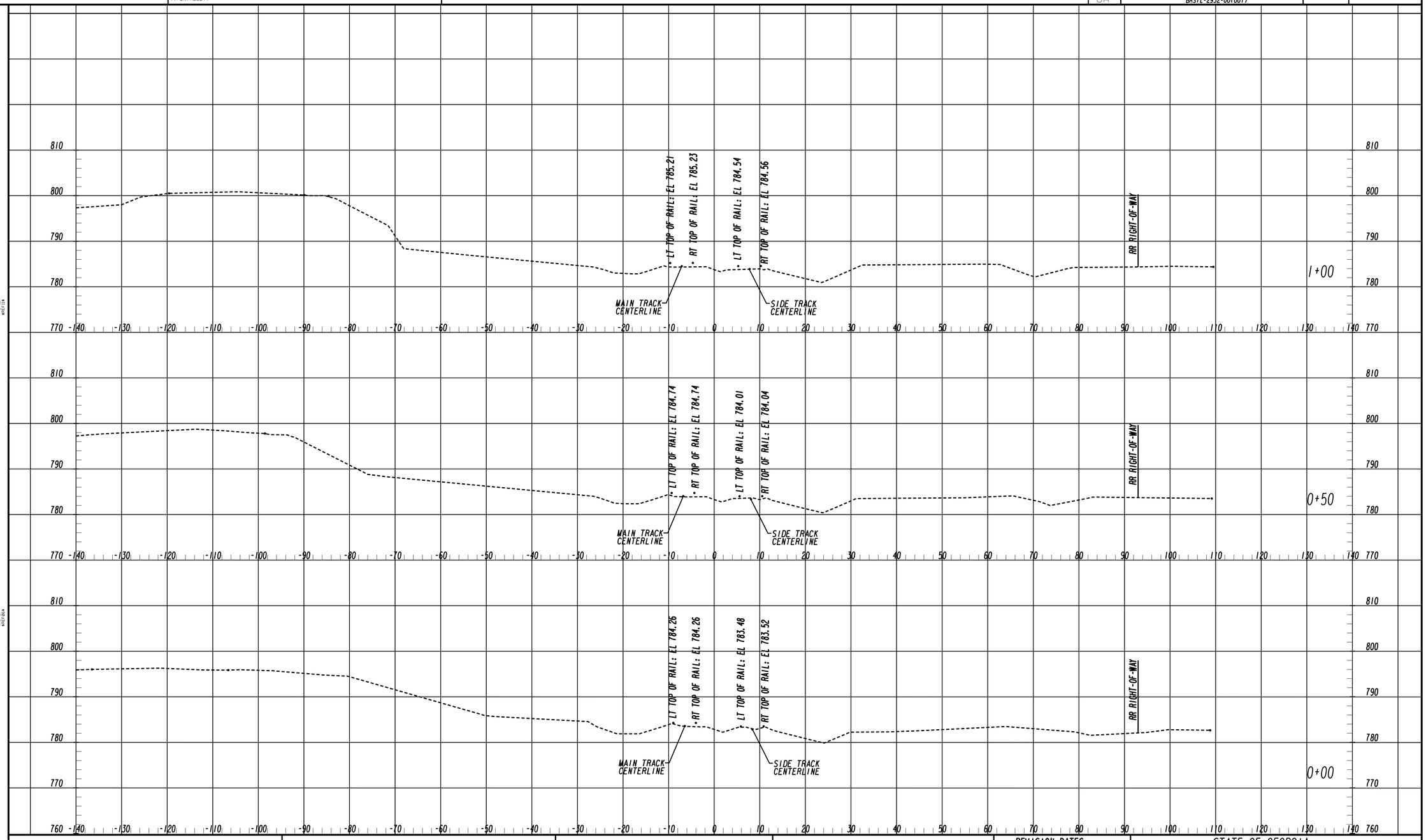
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. RR-001

5/20/2011 G20EDG

DATE$$$ TIME$$$ $PRFB$ DGN
$USER$ $$PENTABLE$$

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSTL-2932-00(001)		



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SCALE IN FEET
0 10 20 40

REVISION DATES

STATE OF GEORGIA
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CROSS SECTIONS

RAILROAD CENTERLINE
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
RR-002

5/20/2011 SUXSEW

DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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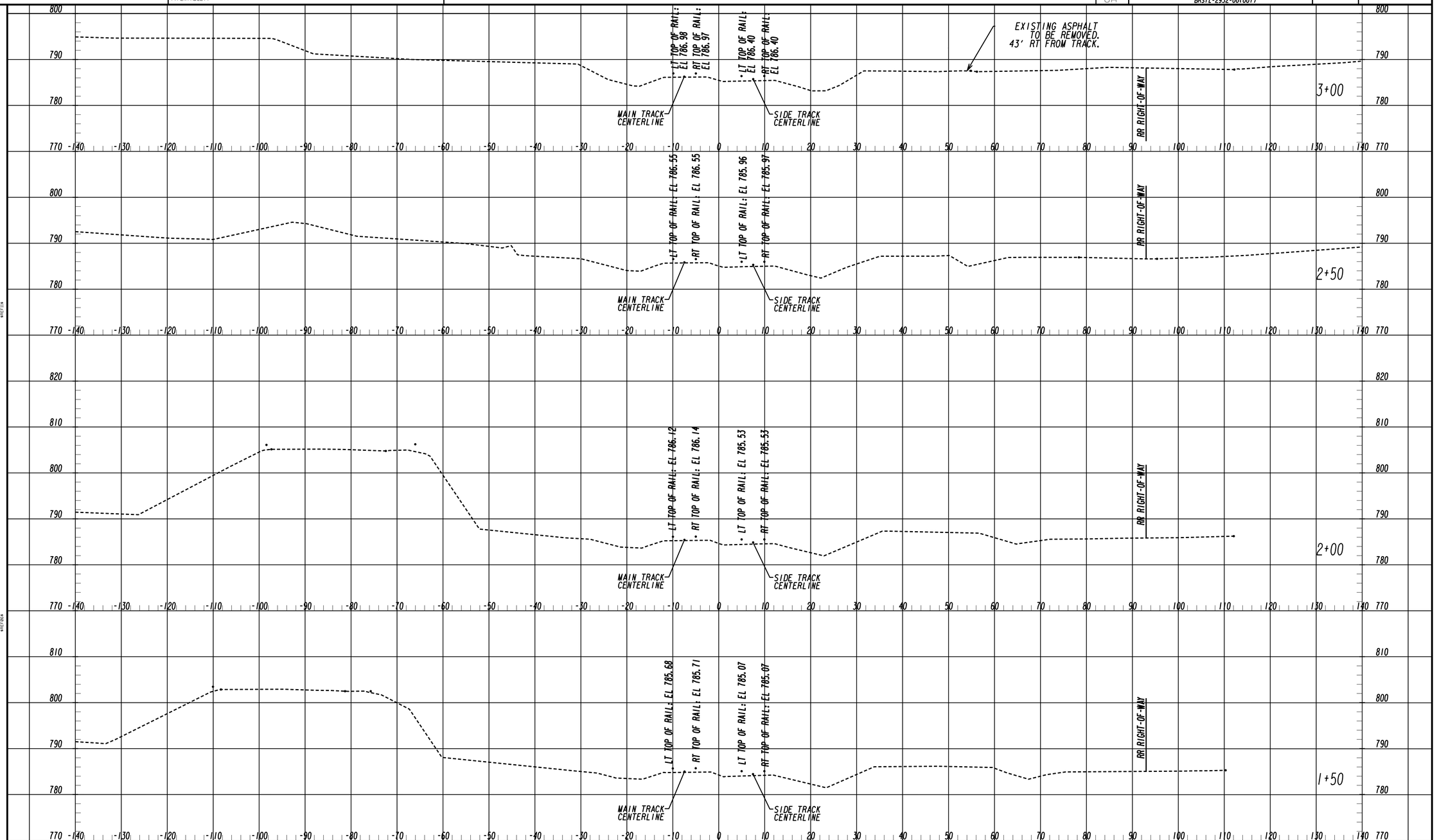

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0 10 20 40

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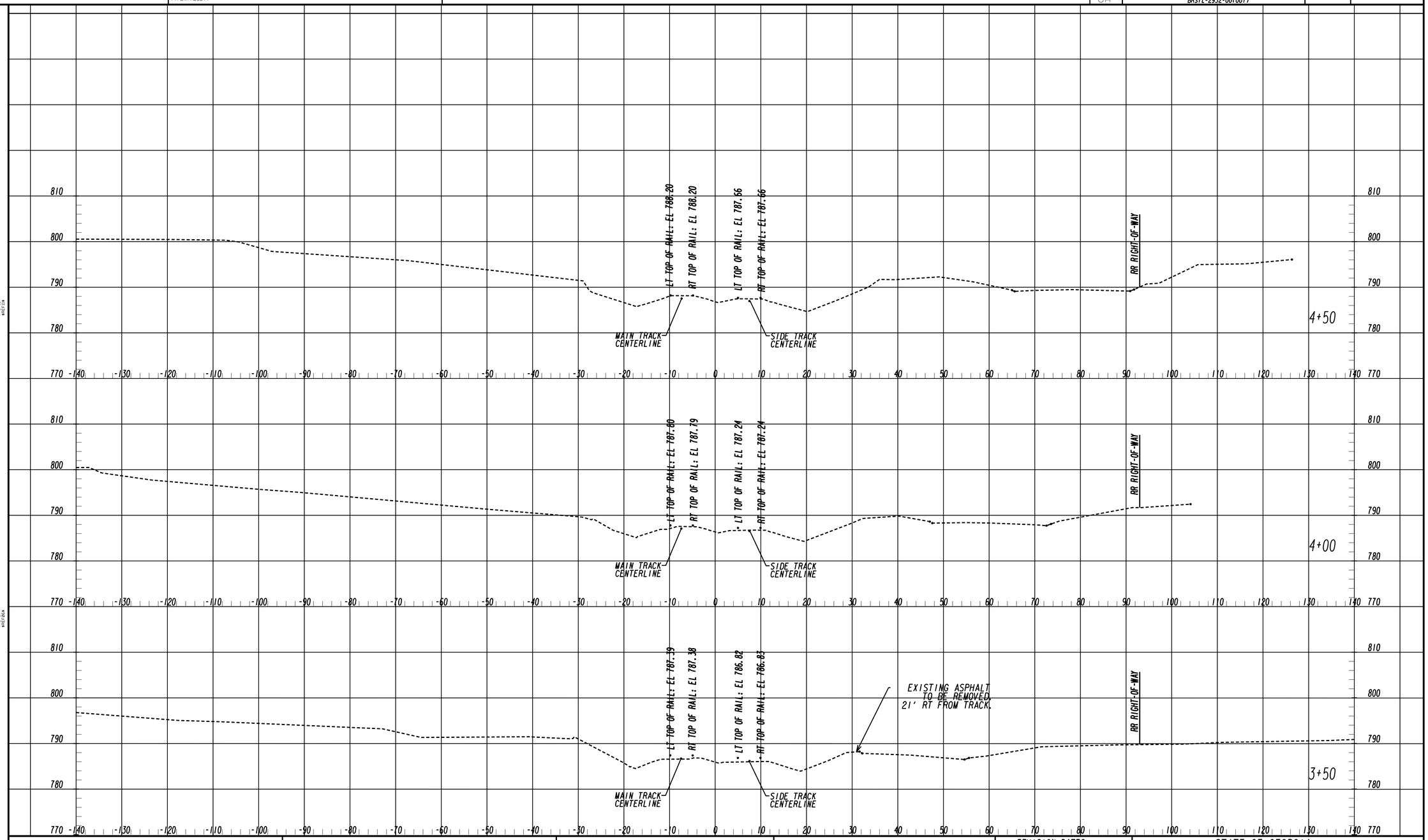
CROSS SECTIONS

RAILROAD CENTERLINE
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No. RR-003

5/20/2011 SUXSEW

DATE$$$	TIME$$$	$PRFB$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	BRSTL-2932-001(001)		



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DRAWING No.
RR-004

5/20/2011 SUXSEW

DATE$$$	TIME$$$	$PRFB$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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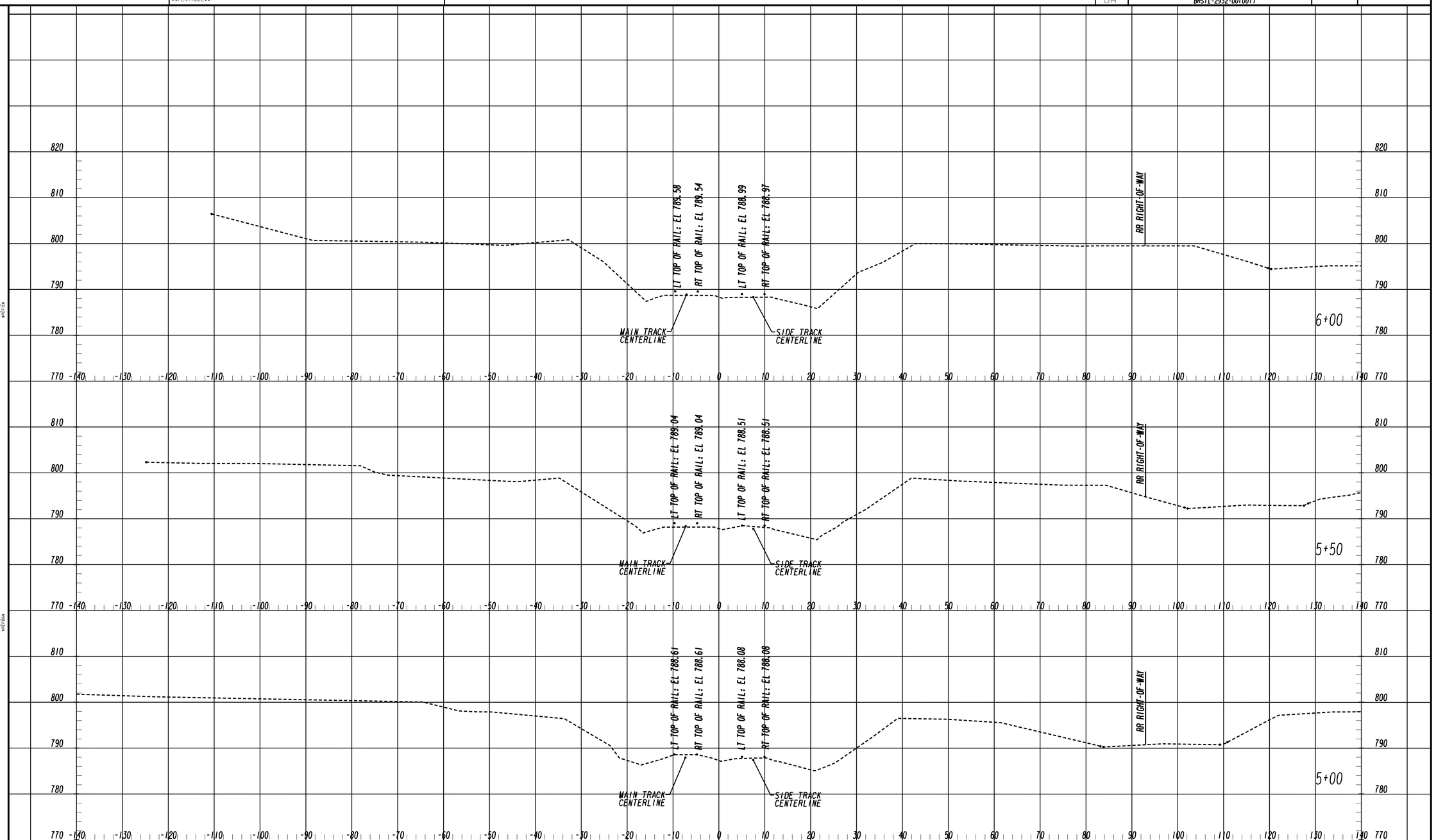

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DRAWING No.
RR-005

5/20/2011 SUXSEW

DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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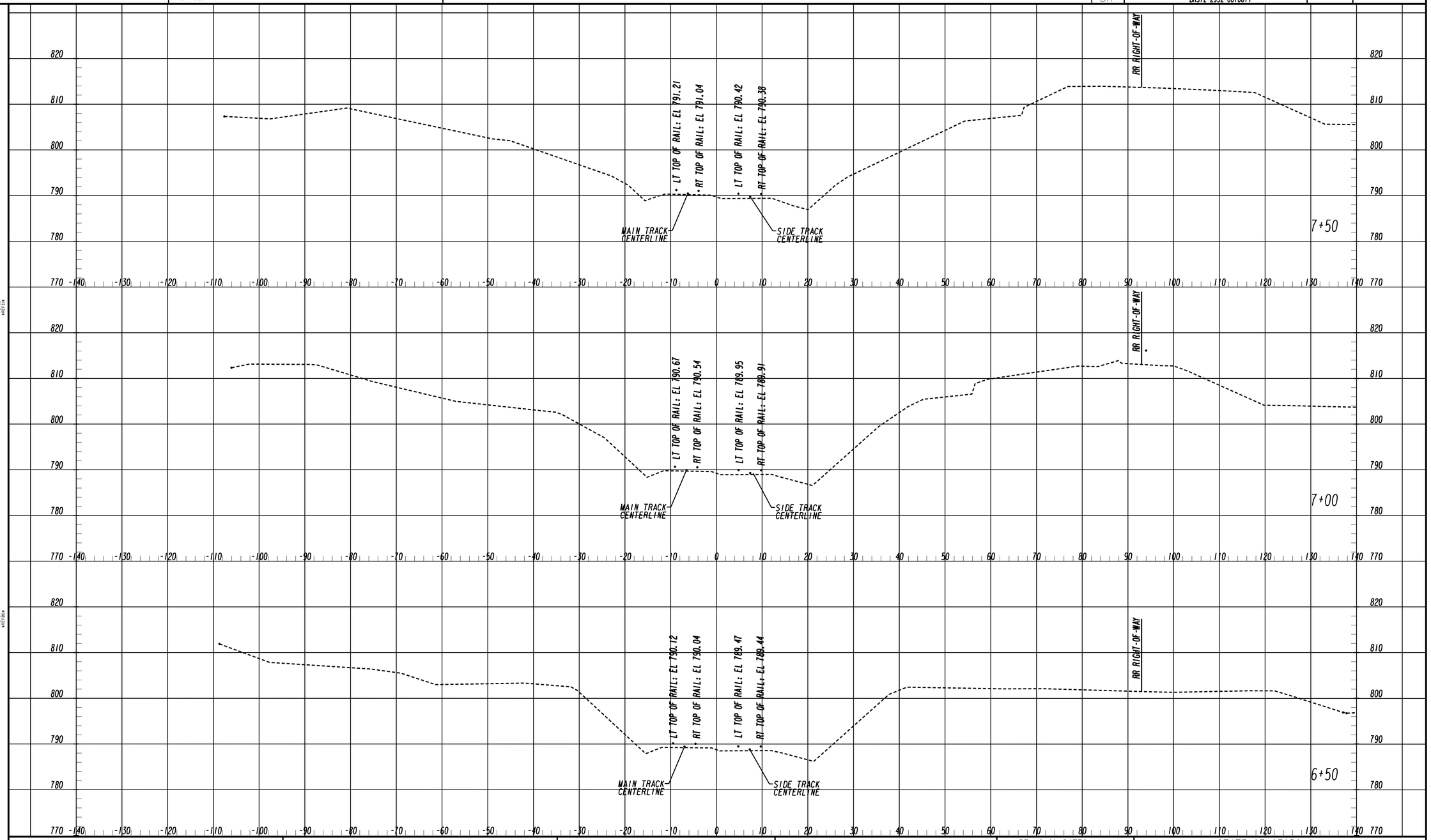

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RAILROAD CENTERLINE
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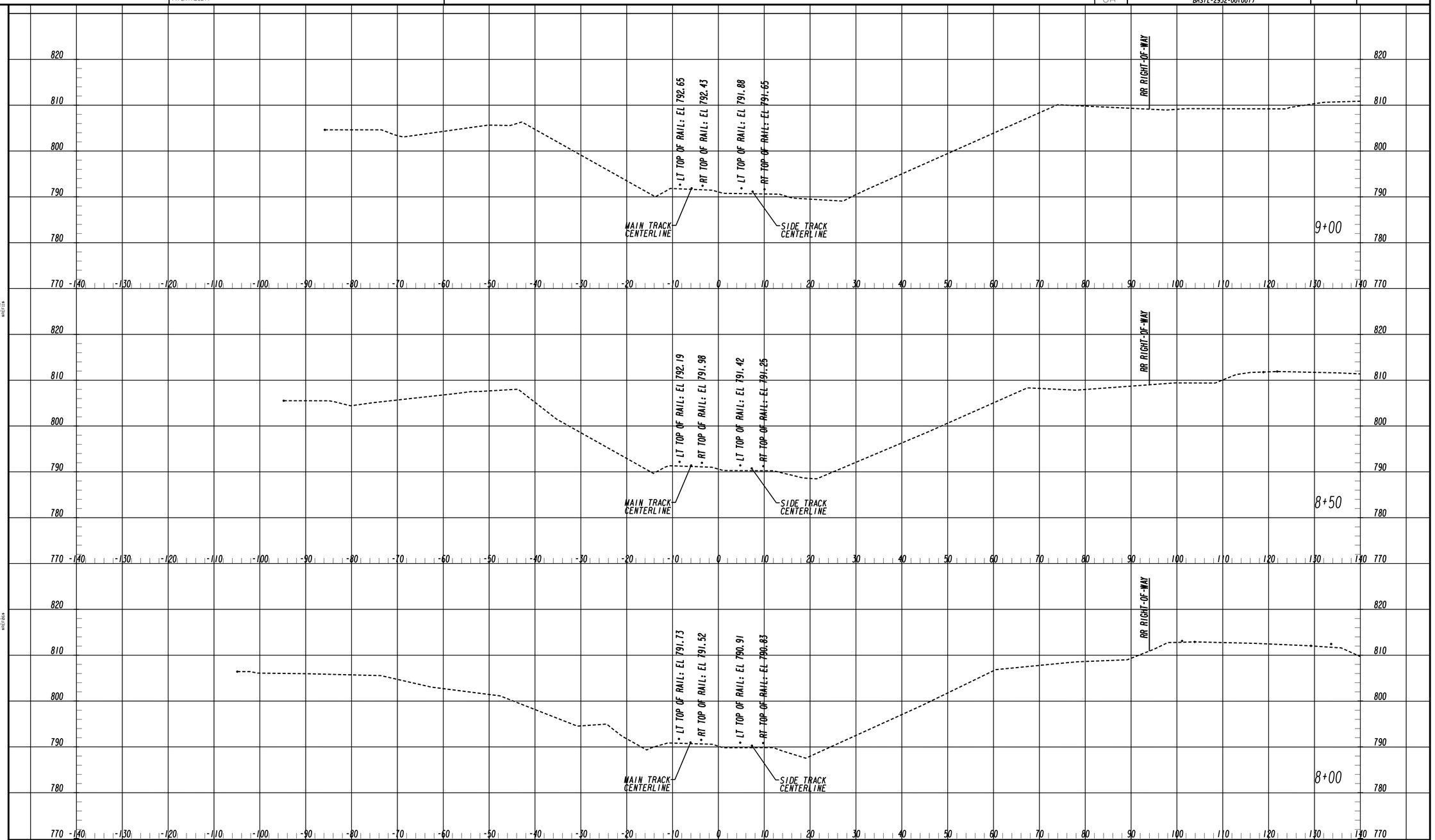
DRAWING No.
RR-006

5/20/2011 SUXSEW

DATE$$$	TIME$$$	$PRFB$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	BRSTL-2932-0010011		



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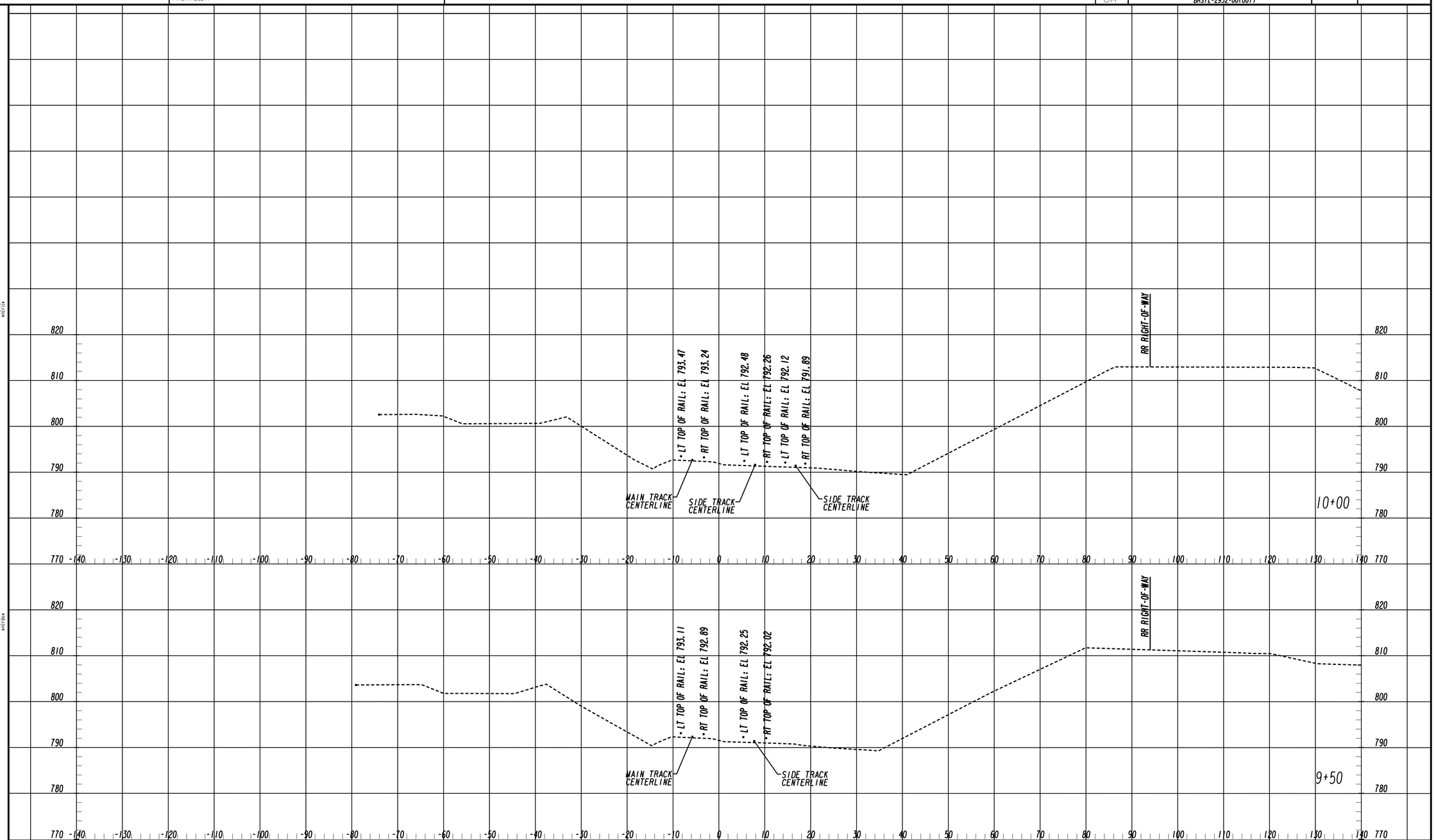
RAILROAD CENTERLINE
CS 1081/GREENVILLE ST @ CSX RR

DRAWING No.
RR-007

5/20/2011 SUXSEW

DATE$$$	TIME$$$	$PRFB$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	BRSTL-2932-001001)		



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REVISION DATES

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DRAWING No.
RR-008

5/20/2011 SUXSEW