STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)	1	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

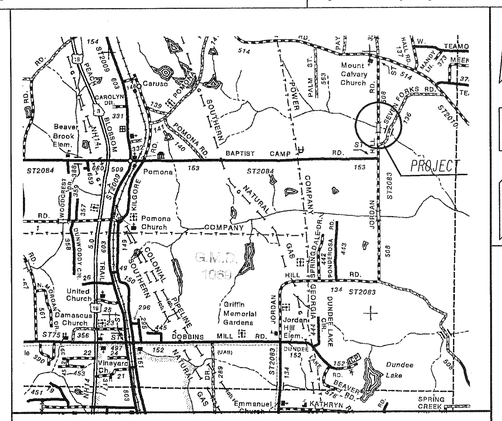
PLAN AND PROFILE OF PROPOSED

BRIDGE REPLACEMENT ON CR 508/JORDAN HILL ROAD OVER TROUBLESOME CREEK TRIBUTARY

SPALDING COUNTY

FEDERAL AID PROJECT

BRSLB-2083-00(002)



LOCATION SKETCH

DESIGN DATA: C.R.508/JORDAN HILL RD.
TRAFFIC A.D.T.: 1,500 (2011)
TRAFFIC A.D.T.: 20,000 (2031)
TRAFFIC D.H.V.: 1,800
DIRECTIONAL DIST: 60% / 40%
% TRUCKS: 8%
24 HR.TRUCKS %: 10%
SPEED DESIGN: 45 MPH

LOCATION & DESIGN
APPROVAL DATE: MARCH 6,2006

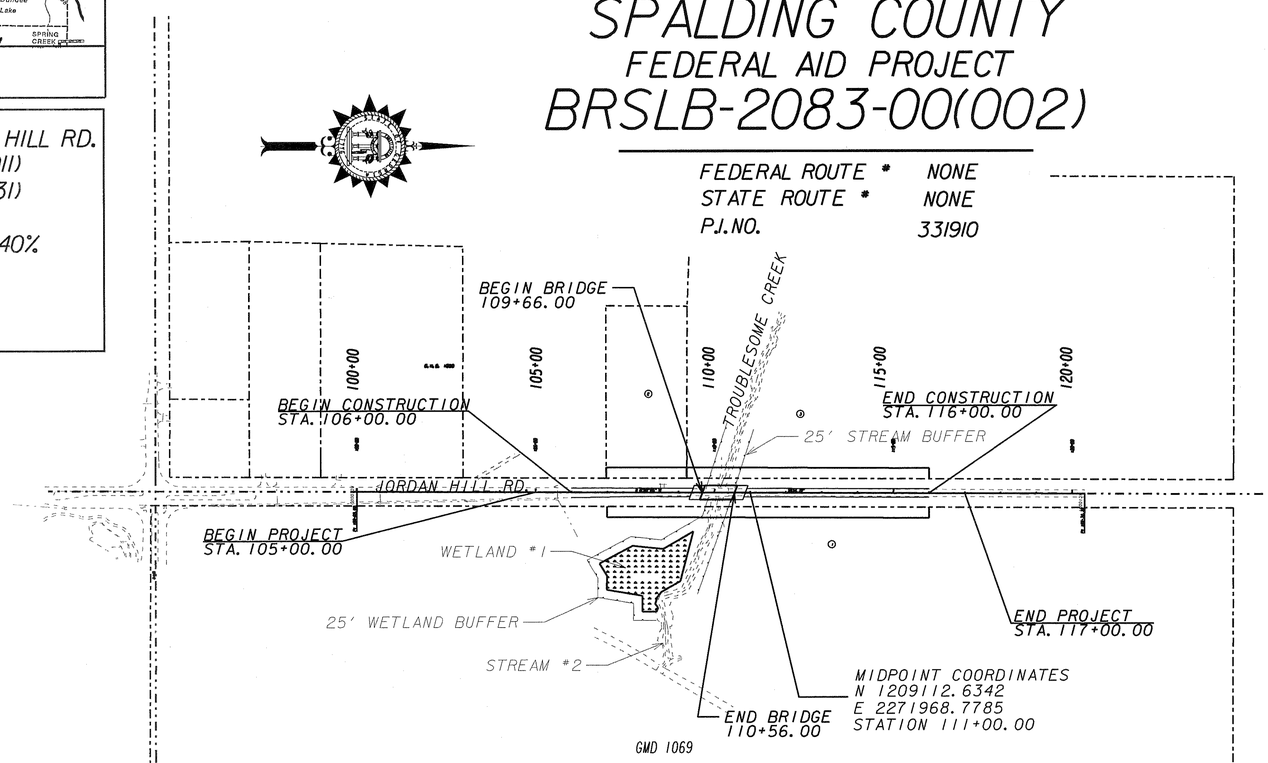
FUNCTIONAL CLASS:
RURAL MAJOR COLLECTOR

THIS PROJECT IS 100% IN SPALDING COUNTY AND IS 100% IN CONG.DIST.NO.3.

PROJECT DESIGNATION: EXEMPT

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.

FEDERAL ROUTE * NONE
STATE ROUTE * NONE
P.I.NO. 331910



JORDAN HILL ROAD TO BE CLOSED DURING CONSTRUCTION

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.

SCALE IN FEET
0 200 400 800

PREPARED BY: _____
DISTRICT THREE DESIGN

RECOMMENDED FOR SUBMISSION BY: _____
DISTRICT DESIGN ENGINEER

SUBMITTED BY: _____
DISTRICT ENGINEER

DATE CHIEF ENGINEER

LENGTH OF PROJECT	COUNTY No. 255 Project No. BRSLB-2083(2)
COUNTY: SPALDING	MILES
NET LENGTH OF ROADWAY	0.211
NET LENGTH OF BRIDGES	0.017
NET LENGTH OF PROJECT	0.228
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.228

PLANS COMPLETED - -	
REVISIONS	

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.

GRWCOV
3/17/2007

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		

SHEET NO.	DWG NO.	DESCRIPTION
1	1-01	COVER SHEET
2	2-01	INDEX
3	3-01	REVISION SUMMARY SHEET
4-5	4-01 - 4-02	GENERAL NOTES
6-7	5-01 - 5-02	TYPICAL SECTIONS
8	6-01	SUMMARY QUANTITIES
9	7-01	QUANTITIES BY AMENDMENT
10	8-01	QUANTITIES BY CONSTRUCTION
11	11-01	CONSTRUCTION LAYOUT SHEET
12	13-01	CONSTRUCTION PLAN SHEET
13	15-01	MAINLINE PROFILE SHEET
14	17-01	DRIVEWAY PROFILES
15	20-01	STAGING DETOUR PLAN
16	21-01	DRAINAGE MAP
17-21	23-01 - 23-05	EARTHWORK CROSS-SECTIONS
22	24-01	UTILITY PLAN SHEET
23	26-01	SIGNING AND MARKING PLAN SHEETS
24		BRIDGE PLAN SHEETS
25-35		CONSTRUCTION DETAILS
36-55		GEORGIA STANDARDS
56		EROSION CONTROL COVER SHEET
57-59	51-01 - 51-03	EROSION CONTROL GENERAL NOTES
60-65	52-01 - 52-06	EROSION CONTROL LEGEND SHEETS
66	53-01	EROSION CONTROL DRAINAGE MAP
67-68	54-01 - 54-02	BMP LOCATION DETAILS
69	55-01	EROSION CONTROL WATERSHED MAP AND SITE MONITORING PLAN
70-75		EROSION CONTROL CONSTRUCTION DETAILS
		CONSTRUCTION DETAILS
25	D-7	BERM DITCHES, SIDE DITCHES, SURFACE DETAILS (07/1980)
26	T-1	DETAILS OF SIGN PLATES (01/2000)
27	T-2	DETAILS FOR TYPICAL FRAMING (03/2000)
28	T-3	STANDARD SIGNS GENERAL NOTES (07/2002)
29	T-3A	TYPE 7, 8, AND 9 SQUARE TUBE POST
		INSTALLATION DETAIL (07/2002)
30	T-3B	DETAILS OF SQUARE TUBE POST
		(BREAKAWAY SIGN SUPPORT) (07/2002)
31	T-5A	DETAILS OF REGULATORY SIGNS
		(SHEET ONE OF TWO) (01/2003)
32	T-5B	DETAILS OF REGULATORY SIGNS
		(SHEET TWO OF TWO) (01/2000)
33	T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT
		ON NON-LIMITED ACCESS ROADWAY (01/2000)
34	T-15A	DETAILS OF RAISED PAVEMENT MARKER LOCATION
		NON-LIMITED ACCESS ROADWAY (01/2004)
35	T-15C	DETAILS OF RAISED PAVEMENT MARKERS (01/2000)
		GEORGIA STANDARDS
36	1030-D	CONCRETE AND METAL PIPE CULVERTS
		(SHEET 1 OF 3) (09/2001)
37	1030-D	CONCRETE AND METAL PIPE CULVERTS
		(SHEET 2 OF 3) (09/2001)
38	1030-D	CONCRETE AND METAL PIPE CULVERTS
		(SHEET 3 OF 3) (09/2001)
39	1122	SAFETY END SECTION (METAL)
		ALTERNATE 1 (SHEET 1 OF 3) (01/2005)

SHEET NO.	DWG NO.	DESCRIPTION
40	1122	SAFETY END SECTION (METAL)
		ALTERNATE 2 (SHEET 2 OF 3) (01/2005)
41	1122	SAFETY END SECTION (CONC.)
		ALTERNATE 3 (SHEET 3 OF 3) (01/2005)
42	3054	END POST AND END POST GUARDRAIL ATTACHMENT DETAIL
		(09/2002)
43	4000-W	GUARDRAIL WARRANT GUIDES (09/2007)
44	4010	"W" BEAM GUARDRAIL (05/1999)
45	4011-A	POST AND OFFSET BLOCKS FOR "W" AND "T" BEAM GUARDRAIL
		(12/2001)
46	4012-C	GUARDRAIL CONNECTION AT BRIDGE END OR AT CONCRETE
		BARRIER END (03/2005)
47	4012-D	GUARDRAIL ANCHORAGE TYPE 1 (07/2002)
48	4040	GUARDRAIL ANCHORAGE TYPE 12 (04/2006)
49	4052	GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND
		ROADS (10/1997)
50	4270	"T" BEAM GUARDRAIL (11/1999)
51	4360	REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE
		STRIPING (04/2006)
52	9013	CONCRETE SPILLWAYS (02/1981)
53	9030-C	DELINEATORS & OBJECT MARKERS AND
		ALTERNATE POSTS (04/2006)
54	9031-H	DETAIL FOR PLUGGING DRILLED WELL, STATIONING OF
		CONCRETE PAVEMENT, CONCRETE SLAB WELL COVER,
		AND DETAIL OF TURNOUTS - RURAL (10/1987)
55	9031-T	ISOMETRIC VIEWS OF SIDE ROAD OR DRIVE AND
		FLARE DETAILS AT BRIDGE ENDS (08/1995)
60	52-01	EC-L1 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
		(SHEET 1 OF 6) (11/2007)
61	52-02	EC-L2 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
		(SHEET 2 OF 6) (11/2007)
62	52-03	EC-L3 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
		(SHEET 3 OF 6) (11/2007)
63	52-04	EC-L4 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
		(SHEET 4 OF 6) (11/2007)
64	52-05	EC-L5 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
		(SHEET 5 OF 6) (11/2007)
65	52-06	EC-L6 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
		(SHEET 6 OF 6) (11/2007)
		EROSION CONTROL CONSTRUCTION DETAILS
70	57-1	D-19 TEMPORARY PIPE SLOPE DRAIN WITH DRAIN INLET (02/2000)
71	57-2	D-20 CONSTRUCTION DETAILS SILT CONTROL GATES FOR STRUCTURES
		TYPE -1, 2, 3: INLET SEDIMENT TRAP (03/2005)
72	57-3	D-24A TEMPORARY SILT FENCE, BALED STRAW EROSION CHECK,
		BRUSH BARRIER DETAILS (09/2001)
73	57-4	D-24B TYPICAL LOCATION DETAILS FOR
		SILT FENCES/BALED STRAW (10/2002)
74	57-5	D-35 PERMANENT SOIL REINFORCING MAT (08/1988)
75	57-6	D-41 CONSTRUCTION EXIT (02/2001)

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

INDEX

JORDAN HILL ROAD BRIDGE

DRAWING No. 2-01

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

REVISION SUMMARY

JORDAN HILL ROAD BRIDGE

DRAWING No. 3-01

1/5/2009 GPLN

GEORGIA 811 Utilities Protection Center, Inc.

Know what's **below.**
Call before you dig.

A NOTICE OF INTENT (N.O.I.) IS NOT REQUIRED FOR THIS PROJECT.

ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED. DRIVES SHALL BE CONSTRUCTED USING:

ASPHALT - ASPH CONC 12.5 mm SUPERPAVE (165 LB/SY)
ASPH CONC 19 mm SUPERPAVE (220 LB/SY)
GRADED AGGREGATE BASE, 6"
CONCRETE - RESIDENTIAL - DRIVEWAY CONCRETE, 6" THICK

ALL DRIVES SHALL BE PAVED TO THE RIGHT OF WAY OR TIE-IN POINT, WHICHEVER IS FURTHER.

UTILITY OWNER	SERVICE
BELLSOUTH DBA AT&T	TELECOMMUNICATIONS
CENTRAL GEORGIA EMC	ELECTRIC
COMCAST	TELEVISION
SPALDING COUNTY WATER	WATER

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING AND FURNISHING HIS OWN BORROW/WASTE PITS FOR THIS PROJECTS AT NO ADDITIONAL COST TO THE DEPARTMENT. FURTHERMORE, THE CONTRACTOR WILL NOTIFY THE DISTRICT MATERIALS ENGINEER A MINIMUM OF 6 WEEKS PRIOR TO ANY LAND DISTURBING ACTIVITIES ON THE BORROW/WASTE PIT SITE TO ALLOW AMPLE TIME FOR A MATERIALS INVESTIGATION AND AN ENVIRONMENTAL EVALUATION.

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	GRADE ≤ 10%	ADT < 250	X					X	X	X
STORM DRAIN	CROSS	GRADE ≤ 10%	250 < ADT < 1500	X					X	X	X
STORM DRAIN	CROSS	GRADE ≤ 10%	1500 < ADT < 15,000	X					X	X	X
STORM DRAIN	CROSS	GRADE ≤ 10%	ADT > 15,000	X							
STORM DRAIN	CROSS	GRADE > 10%	ADT < 250						X	X	X
STORM DRAIN	CROSS	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

THERE IS NO SUITABLE PLACE WITHIN THE PROJECT LIMITS TO BURY EXISTING BRIDGE MATERIALS, THEREFORE THE CONTRACTOR WILL BE RESPONSIBLE FOR FINDING A SUITABLE PLACE FOR EXISTING BRIDGE DISPOSAL AT NO ADDITIONAL COST TO THE DEPARTMENT.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

GENERAL NOTES

JORDAN HILL ROAD BRIDGE

DRAWING No. 4-01

1. ALL STANDARD 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 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 THE OFFICE OF TRAFFIC SAFETY AND DESIGN.

3. ALL STANDARD 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 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 GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL 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 $^1/_2$ INCH 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 $^3/_8$ INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x $^1/_2$ INCH x (WIDTH OF 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 (ENCAPSULATED LENS) 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, R5-1A).

10. TYPE IX (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

11. TYPE IX (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

12. A $^1/_2$ INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL $^3/_8$ INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

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. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN 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%
0.0150 ft/ft - MINIMUM	0.0156 ft/ft - MINIMUM
0.0208 ft/ft - DESIRABLE	0.0208 ft/ft - DESIRABLE
0.0250 ft/ft - MAXIMUM	0.0300 ft/ft - 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%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

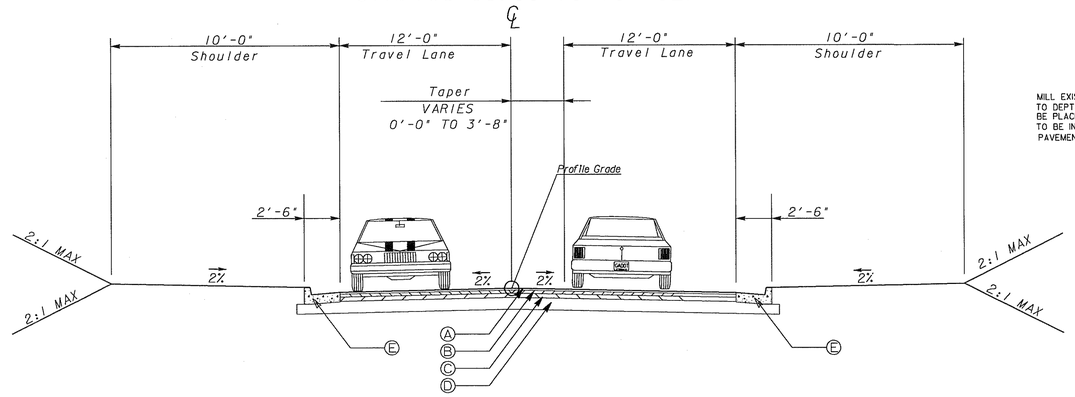
D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

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

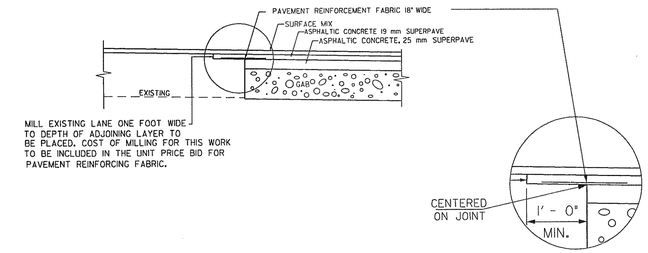
NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

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

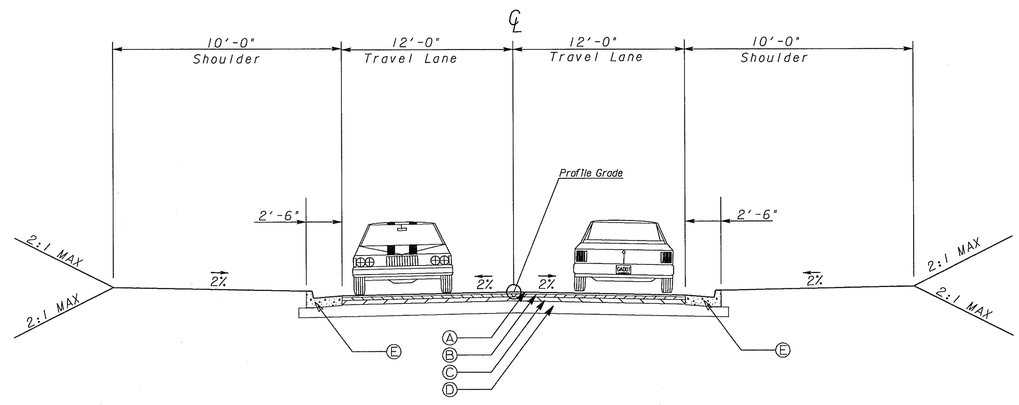
TYPICAL SECTION # 1
APPLIES FROM
STA. 106+00.00 TO 107+62.11



TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE

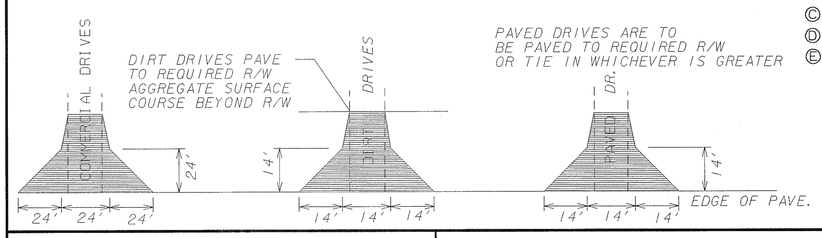


TYPICAL SECTION # 2
APPLIES FROM
STA. 107+62.11 TO 108+00.00



Ⓐ RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS. \ SQ. YD.)
Ⓑ RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL B ITUM MATL & H LIME (220 LBS.\ SQ. YD.)
Ⓒ RECYCLED ASPH CONC. 25 mm SUPERPAVE. GP 1 OR 2, INCL BITUM MATL & H LIME (660 LBS.\ SQ. YD.)
Ⓓ GR AGGR BASE CRS. INCL MATL (12")
Ⓔ CONCRETE CURB AND GUTTER, 8" x 30", TYPE 2

DIRT AND ASPHALT DRIVES:
12.5mm SUPERPAVE - 165 lb/sy
19mm SUPERPAVE - 220 lb/sy
GRADED AGGREGATE BASE - 6"
CONCRETE DRIVES:
DRIVEWAY CONC. - 4"
COMMERCIAL DRIVEWAY CONC. - 8"



NOTE: SLOPES MAY BE ADJUSTED BY THE ENGINEER TO STAY WITHIN THE REQUIRED RIGHT-OF-WAY OR EASEMENTS.
* ALL SLOPES < 4:1 AND > 6' REQUIRE GUARDRAIL TO BE CONSISTENT WITH GA STD 4000W

GEORGIA
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
TYPICAL SECTIONS
JORDAN HILL ROAD BRIDGE
DRAWING No. 5-01

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%
0.0150 ft/ft - MINIMUM	0.0156 ft/ft - MINIMUM
0.0208 ft/ft - DESIRABLE	0.0208 ft/ft - DESIRABLE
0.0250 ft/ft - MAXIMUM	0.0300 ft/ft - 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%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

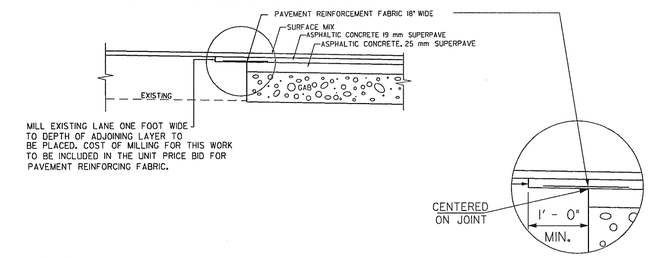
D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

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

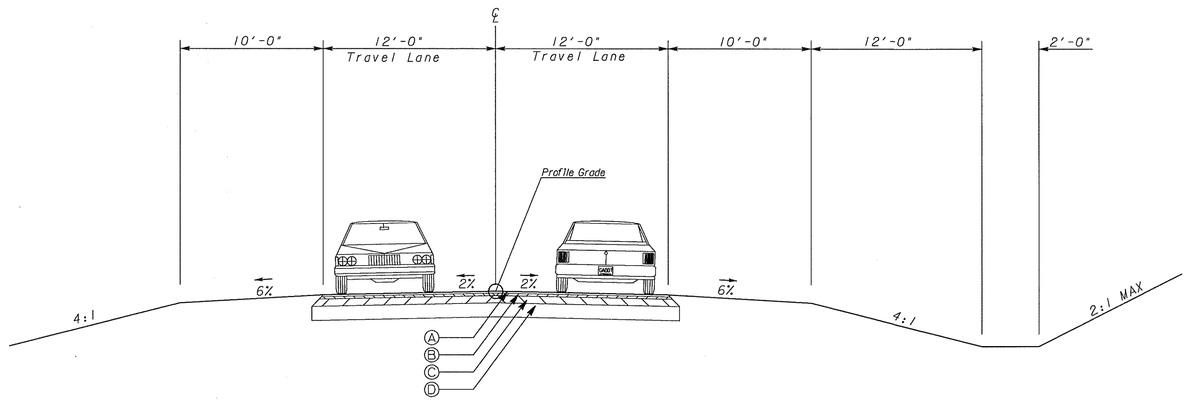
NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

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

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN TWO INCHES OF ASPHALTIC CONCRETE

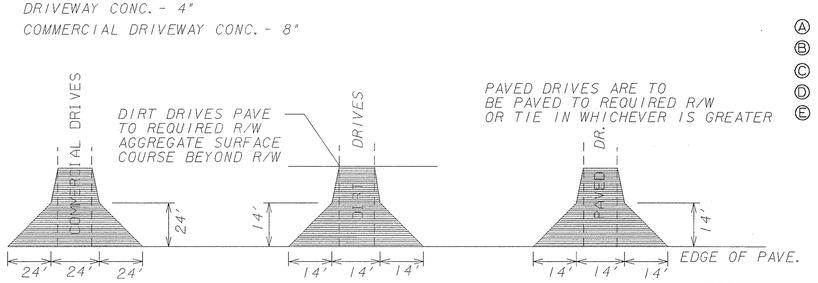


TYPICAL SECTION # 3
APPLIES FROM
STA. 108+00 TO 116+00



Ⓐ RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS. \ SQ. YD.)
Ⓑ RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LBS.\ SQ. YD.)
Ⓒ RECYCLED ASPH CONC. 25 mm SUPERPAVE. GP 1 OR 2, INCL BITUM MATL & H LIME (660 LBS.\ SQ. YD.)
Ⓓ GR AGGR BASE CRS. INCL MATL (12")
Ⓔ CONCRETE CURB AND GUTTER, 8" x 30", TYPE 2

DIRT AND ASPHALT DRIVES:
12.5mm SUPERPAVE - 165 lb/sy
19mm SUPERPAVE - 220 lb/sy
GRADED AGGREGATE BASE - 6"
CONCRETE DRIVES:
DRIVEWAY CONC. - 4"
COMMERCIAL DRIVEWAY CONC. - 8"



NOTE: SLOPES MAY BE ADJUSTED BY THE ENGINEER TO STAY WITHIN THE REQUIRED RIGHT-OF-WAY OR EASEMENTS.
* ALL SLOPES < 4:1 AND > 6' REQUIRE GUARDRAIL TO BE CONSISTENT WITH GA STD 4000W

GEORGIA DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
TYPICAL SECTIONS
JORDAN HILL ROAD BRIDGE
DRAWING No. 5-02

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		

GRADING COMPLETE BRSLB-2083-00(002)

LUMP	LUMP

TRAFFIC CONTROL BRSLB-2083-00(002)

LUMP	LUMP

*DETOUR SIGNING AND MAINTENANCE WILL BE COVERED IN TRAFFIC CONTROL

CONCRETE CURB & GUTTER 8"X 30"TYPE 2, STD. 9032-B

STATION TO STATION	SIDE	LIN.FT.
106+00 TO 107+40	RT	140
106+00 TO 107+40	LT	140
TOTAL		280

PCS BEAMS, AASHTO, BULB TEE, 54 IN

528	LF

BARRIER FENCE (ORANGE) 4 FT

TOTAL	200 LF

AGGREGATE SURFACE COURSE

AS REQUIRED	500 TN

ASPHALTIC CONCRETE CURB

TOTAL	540 LF

RIGHT OF WAY MARKERS

TOTAL	8 EA

SURFACING QUANTITIES

ITEMS	UNIT	ROADWAY	DRIVES	TOTALS
REC. ASPH CONC 12.5 MM SUPERPAVE GP 2 ONLY, BITUM MATL. & H LIME	TN	190	10	200
REC. ASPH CONC 19 MM SUPERPAVE GP 1 OR 2 INCL BITUM MATL. & H LIME	TN	257	13	260
REC. ASPH CONC 25 MM SUPERPAVE GP 1 OR 2 INCL BITUM MATL. & H LIME	TN	760		760
GRAD AGGR BASE CRS INCL MATL	TN	1560	40	1600
BITUM TACK COAT	GL	248	12	260

GROOVED CONCRETE

380	SY

CLASS A CONCRETE

47	CY

CONCRETE BARRIER

168	LF

BAR REINF STEEL

5234	LB

REMOVAL OF EXISTING BRIDGE STRUCTURE ID NO. 255-0041-0

LUMP	LS

SUPERSTR CONCRETE, CL AA, BR NO - 1 (128)

LUMP	LS

TEMPORARY EROSION CONTROL

ITEM	UNIT	TOTAL
CONSTR AND REM BALED STRAW EROSION CHECK	LF	290
CONSTR AND REM SILT CONTROL GATE TYPE 3	EA	2
CONSTR AND REM RIP RAP CHECK DAMS,	EA	65
STONE PLAIN RIP RAP/SAND BAGS		
TEMPORARY SILT FENCE, TYPE C	LF	2900
CONSTRUCTION EXIT	EA	2
MAINTENENCE OF BALED STRAW EROSION CHECK	LF	150
MAINTENENCE OF SILT CONTROL GATE TYPE 3	EA	2
MAINTENENCE OF CHECK DAMS - ALL TYPES	LF	910
MAINTENENCE OF SILT FENCE TYPE C	LF	1500
MAINTENENCE OF CONSTRUCTION EXIT	EA	2
CONSTR AND REM TEMPORARY PIPE SLOPE DRAIN	LF	110
TEMPORARY GRASSING	AC	2
MULCH	TN	30

REINFORCED CONCRETE APPROACH SLAB GA. STD. 9017R

LOCATION STA. TO STA.	APPR. SLAB	SPILLWAY TP 3 GA. STD. 9013
	SY	EA
113+36.00 TO 113+66.00	140	
115+56.00 TO 115+86.00	140	
107+50		2
TOTALS	280	2

GUARDRAIL QUANTITIES

GA. STDS. 3054, 4010, 4011A, 4012C, 4012D, 4040, 4052, 4270, 4360

STATION-STATION	SIDE	"W" BEAM LF	"T" BEAM LF	ANCHORAGES TP 1	ANCHORAGES TP 12
107+63.41 TO 109+28.72	RT	174.66	20.65		1
108+39.79 TO 109+73.28	LT	112.84	20.65	1	
110+48.72 TO 111+82.21	RT	112.84	20.65	1	
110+63.28 TO 112+58.59	LT	174.66	20.65		1
TOTALS		575.00	82.60	2	2

NOTE: LENGTH AND LOCATIONS ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER TO FIT FIELD CONDITIONS

SUPERSTR REINF STEEL, BR NO - 1(30:66)

LUMP	LS

LOAD TEST, STEEL H, HP 14 X 73 (IF REQ'D)

1	EA

PILING IN PLACE, STEEL H, HP 14 X 73

355	LF

PERMANENT EROSION CONTROL

ITEM	UNIT	TOTAL
PERMANENT GRASSING	AC	2
AGRICULTURAL LIME	TN	12
LIQUID LIME	GL	10
FERTILIZER MIXED GRADE	TN	3
FERTILIZER NITROGEN CONTENT	LB	400
BITUMINOUS TREATED ROVING, WATERWAYS (DP=1 FT)	SY	740
STN DUMPED RIP RAP, TP 1, 24 IN	SY	400
STN DUMPED RIP RAP, TP 3, 24 IN	SY	100
EROSION CONTROL MATS, SLOPES	SY	1500
PLASTIC FILTER FABRIC	SY	500
PERMANENT SOIL REINFORCING MATS	SY	1500

WATER QUAL. MONITORING AND SAMPLING

TOTAL	2 EA

DELINEATORS, TP 1

TOTAL	12 EA

WATER QUALITY INSPECTIONS

TOTAL	9 MO

RAISED PVMT MARKERS TP 1

TOTAL	20

DRAINAGE QUANTITIES

SIDE DRAIN PIPE

STATION	SIDE	LIN. FT. 18"	SAFETY END SECTION-EACH STD. 1122 18"	4:1	6:1	HEIGHT OF FILL
108+29.88	LT	50		1	1	1-10
TOTAL		50		1	1	

TRAFFIC STRIPING

DESCRIPTION	UNIT	QUANTITY
5 IN SOLID WHITE	LF	1800
8 IN SOLID, BLACK-WHITE CONTRAST	LF	300
5 IN SOLID YELLOW	LF	1800
8 IN SOLID, BLACK-YELLOW CONTRAST	LF	300
TRAFFIC STRIPE, YELLOW	SY	18

TRAFFIC SIGNING

STATION	SIGN CODE	TP 1 MATL, REFL SHEETING TP 9 SIZE	QTY	SF	TP 7 GALVANIZED STEEL POST LF	QTY	TOTAL LF
107+85.82 RT	W8-13	36"x36"	1	9.00	13.00	1	13.00
112+35.81 LT	W8-13	36"x36"	1	9.00	13.00	1	13.00
TOTAL			2	18.00		2	26.00

GEORGIA DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

SUMMARY QUANTITIES

JORDAN HILL ROAD BRIDGE

DRAWING NO. 6-01

QUANTITIES REQUIRED BY AMENDMENT

DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

QUANTITIES (AMENDMENT)

JORDAN HILL ROAD BRIDGE

DRAWING No. 7-01

1/5/2009 GQUANT

QUANTITIES REQUIRED ON CONSTRUCTION

DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

QUANTITIES (CONSTRUCTION)

JORDAN HILL ROAD BRIDGE

DRAWING No. 8-01

1/5/2009 GQUANT

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	Jordan Hill Road over Troublesome Creek Tributary		
	ROADWAY		
150-1000	TRAFFIC CONTROL - BRSLB-2083-00(002)	LS	1
210-0100	GRADING COMPLETE - BRSLB-2083-00(002)	LS	1
310-1101	GR AGGR BASE CRS, INCL MATL	TN	1600
318-3000	AGGR SURF CRS	TN	500
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	760
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	200
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	260
413-1000	BITUM TACK COAT	GL	260
433-1200	REINF CONC APPROACH SLAB, INCL SLOPED EDGE	SY	280
436-1000	ASPHALTIC CONCRETE CURB - 5 IN	LF	540
441-0303	CONC SPILLWAY, TP 3	EA	2
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	280
500-0100	GROOVED CONCRETE	SY	200
500-3200	CLASS B CONCRETE	CY	12
500-3800	CLASS A CONCRETE, INCL REINF STEEL	CY	21
511-1000	BAR REINF STEEL	LB	140
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	50
550-3418	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	EA	1
550-3618	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	EA	1
634-1200	RIGHT OF WAY MARKERS	EA	8
641-1100	GUARDRAIL, TP T	LF	83
641-1200	GUARDRAIL, TP W	LF	600
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	2
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	2
643-8200	BARRIER FENCE (ORANGE), 4 FT	LF	200
	BRIDGE		
501-9991	BRIDGE CONSTRUCTION	SF	3600
540-1102	REMOVAL OF EXISTING BR, BR NO. 255-0041-0	LS	1
	TEMPORARY EROSION CONTROL		
163-0232	TEMPORARY GRASSING	AC	2
163-0240	MULCH	TN	30
163-0300	CONSTRUCTION EXIT	EA	2
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	2
163-0520	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	LF	110
163-0524	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS - STONE PLAIN RIP RAP/SAND BAGS	EA	65
163-0529	CONSTRUCT AND REMOVE TEMPORARY SEDIMENT BARRIER OR BALED STRAW CHECK DAM	LF	290
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	1500
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	910
165-0071	MAINTENANCE OF SEDIMENT BARRIER - BALED STRAW	LF	150
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	2
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	2
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	2
167-1500	WATER QUALITY INSPECTIONS	MO	9
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	2900

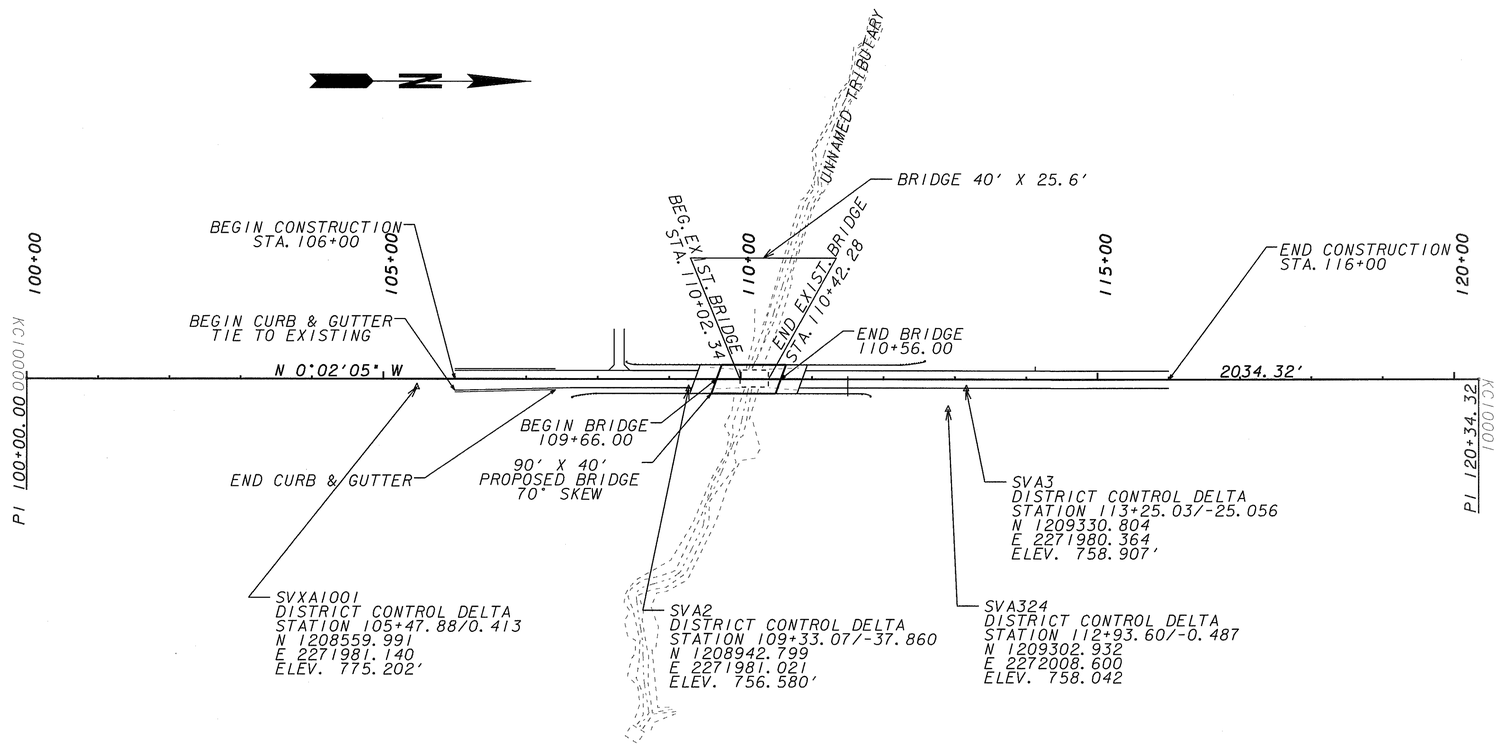
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
	PERMANENT EROSION CONTROL		
603-2182	STN DUMPED RIP RAP, TP 3, 24 IN	SY	500
603-6006	SAND-CEMENT BAG RIP RAP, 6 IN	SY	3
603-7000	PLASTIC FILTER FABRIC	SY	710
700-6910	PERMANENT GRASSING	AC	2
700-7000	AGRICULTURAL LIME	TN	12
700-7010	LIQUID LIME	GL	10
700-8000	FERTILIZER MIXED GRADE	TN	3
700-8100	FERTILIZER NITROGEN CONTENT	LB	400
710-9000	PERMANENT SOIL REINFORCING MAT	SY	1500
715-2200	BITUMINOUS TREATED ROVING, WATERWAYS	SY	740
716-2000	EROSION CONTROL MATS, SLOPES	SY	1500
	TRAFFIC SIGNING AND MARKING		
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	18
636-2070	GALV STEEL POSTS, TP 7	LF	26
636-5010	DELINEATOR, TP 1	EA	12
652-5451	SOLID TRAFFIC STRIPE, 5 IN, WHITE	LF	1800
652-5452	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	LF	1800
652-9002	TRAFFIC STRIPE, YELLOW	SY	18
654-1001	RAISED PVMT MARKERS TP 1	EA	20
657-1085	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	LF	300
657-6085	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW), TP PB	LF	300

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
DETAILED ESTIMATE
JORDAN HILL ROAD BRIDGE
DRAWING No. 9-01

1/5/2009 GPLN



1/5/2009 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 100 200 400

REVISION DATES		

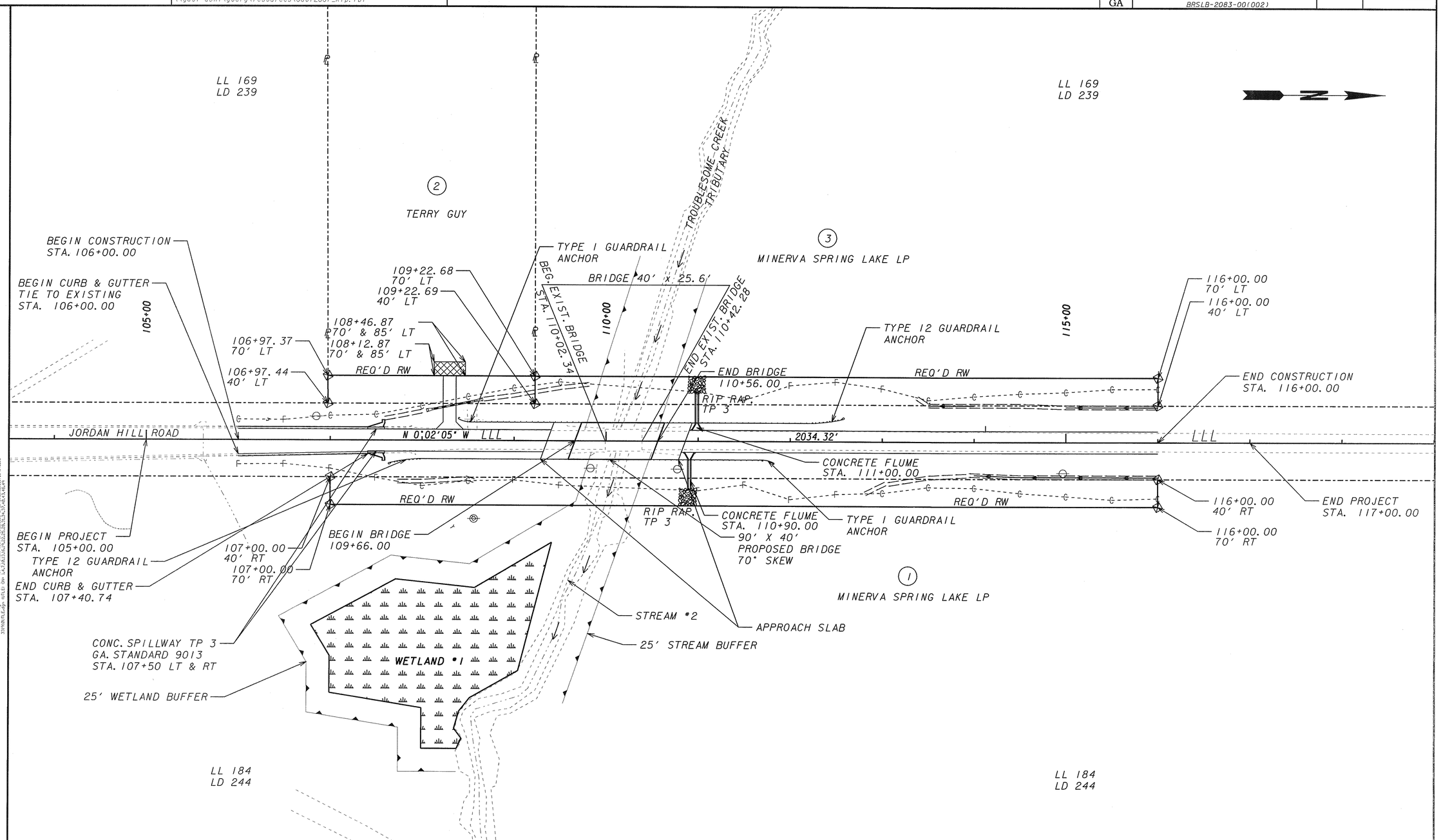
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

CONSTRUCTION LAYOUT

JORDAN HILL ROAD BRIDGE

DRAWING No. 11-01

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



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

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

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

MAINLINE PLAN

JORDAN HILL ROAD BRIDGE

DRAWING No. 13-01

1/5/2009 GPLN

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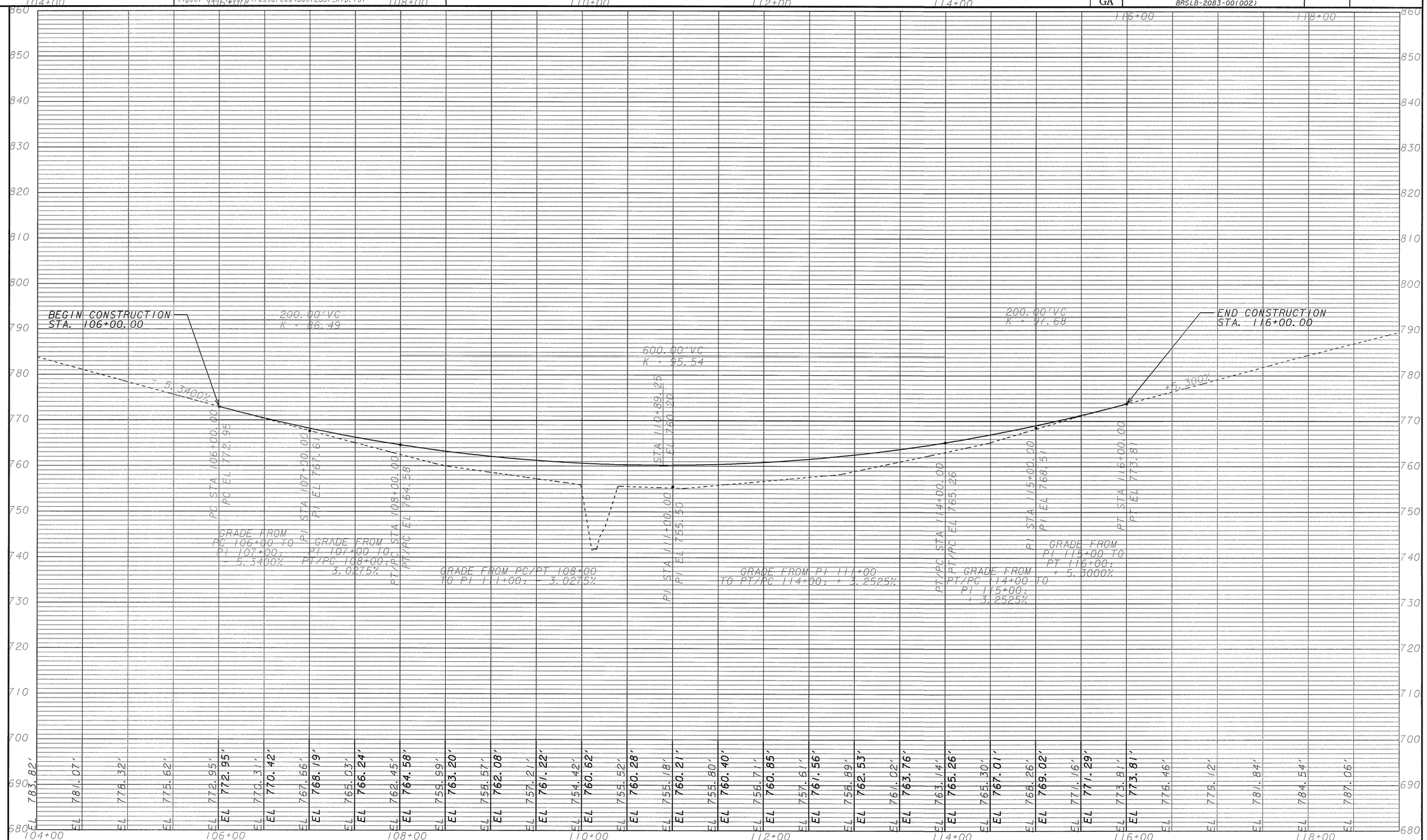
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



3/1/2007 GRIEDG

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

MAINLINE PROFILE

JORDAN HILL ROAD BRIDGE

DRAWING No. 15-01

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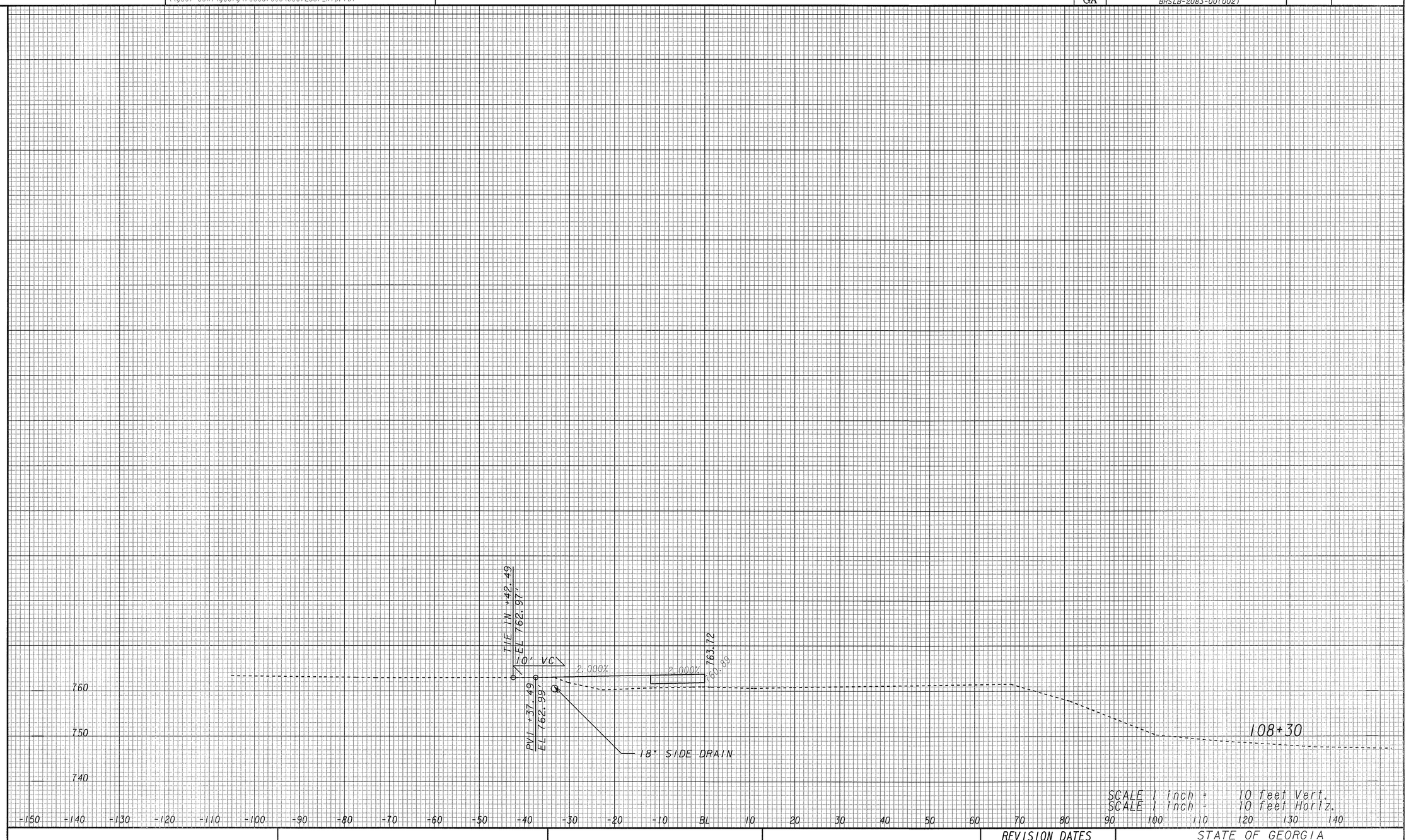
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-001(002)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

DRIVEWAY PROFILES

JORDAN HILL ROAD BRIDGE

DRAWING No. 17-01

3/11/2007 SUKSEW

10/12/2011 Wed Oct 12 14:14:03 2011
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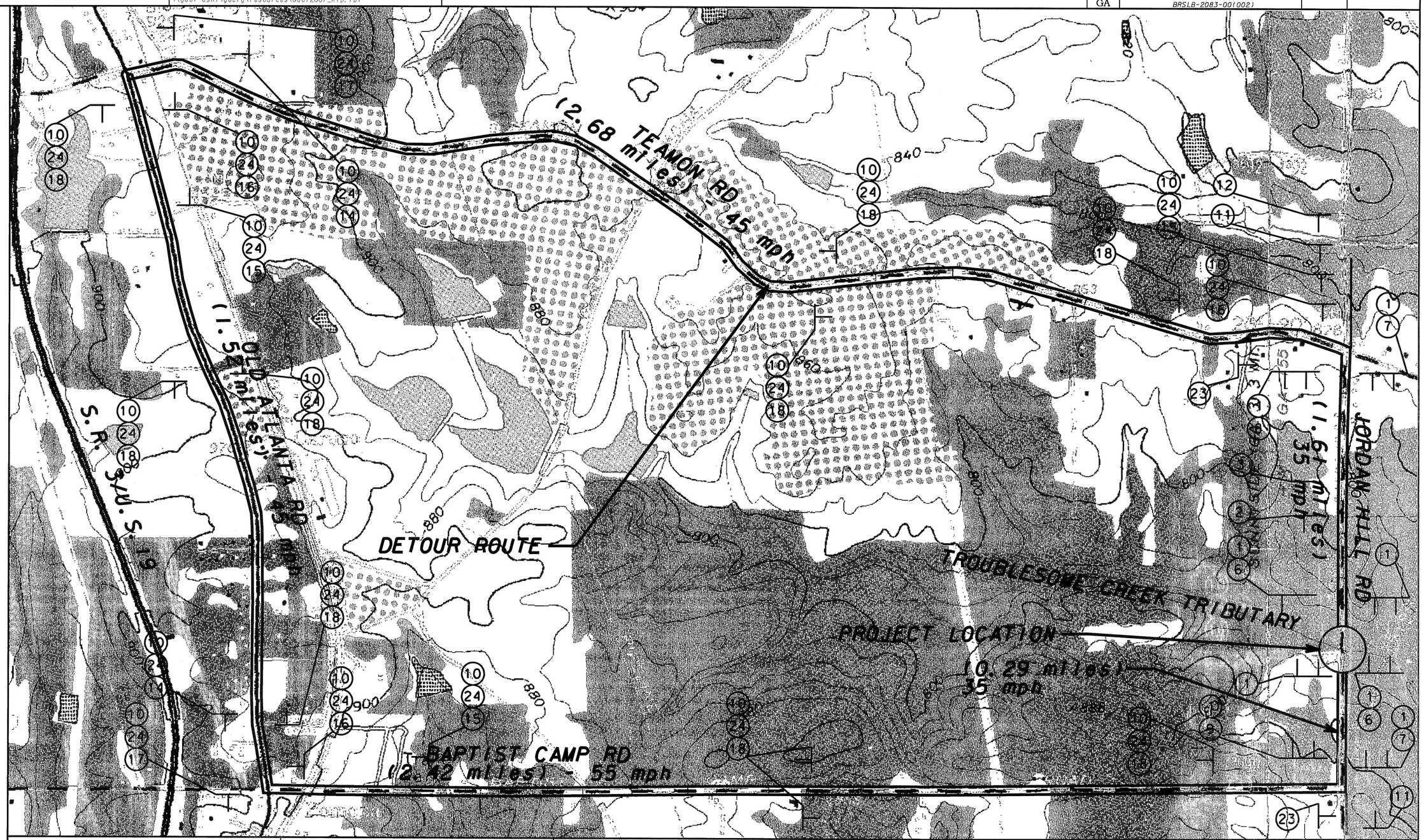
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 500 1000 2000

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

DETOUR PLAN

JORDAN HILL ROAD BRIDGE

DRAWING No. 20-01

1/5/2009 GPLN

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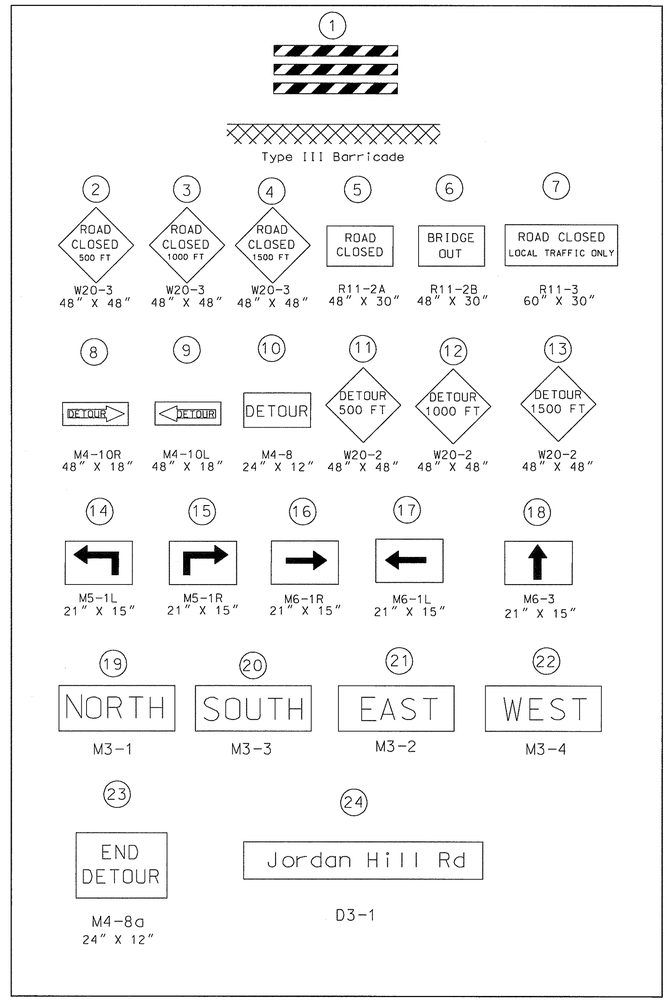
DETOUR MAP LEGEND



GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 500 1000 2000

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

DETOUR PLAN

JORDAN HILL ROAD BRIDGE

DRAWING No. 20-02

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		

TOTAL PROJECT SIZE	3.08 ACRES
TOTAL DISTURBED AREA	2.20 ACRES
RECEIVING WATERS	TROUBLESOME CREEK TRIBUTARY

JORDAN HILL ROAD

END PROJECT
STA. 117+00.00

END CONSTRUCTION
STA. 116+00.00

END BRIDGE
STA. 110+56.00

BEGIN BRIDGE
STA. 109+66.00

BEGIN CONSTRUCTION
STA. 106+00.00

BEGIN PROJECT
STA. 105+00.00

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 600 1200 2400

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

DRAINAGE AREA MAP

JORDAN HILL ROAD BRIDGE

DRAWING No. 21-01

1/5/2009 GPLN

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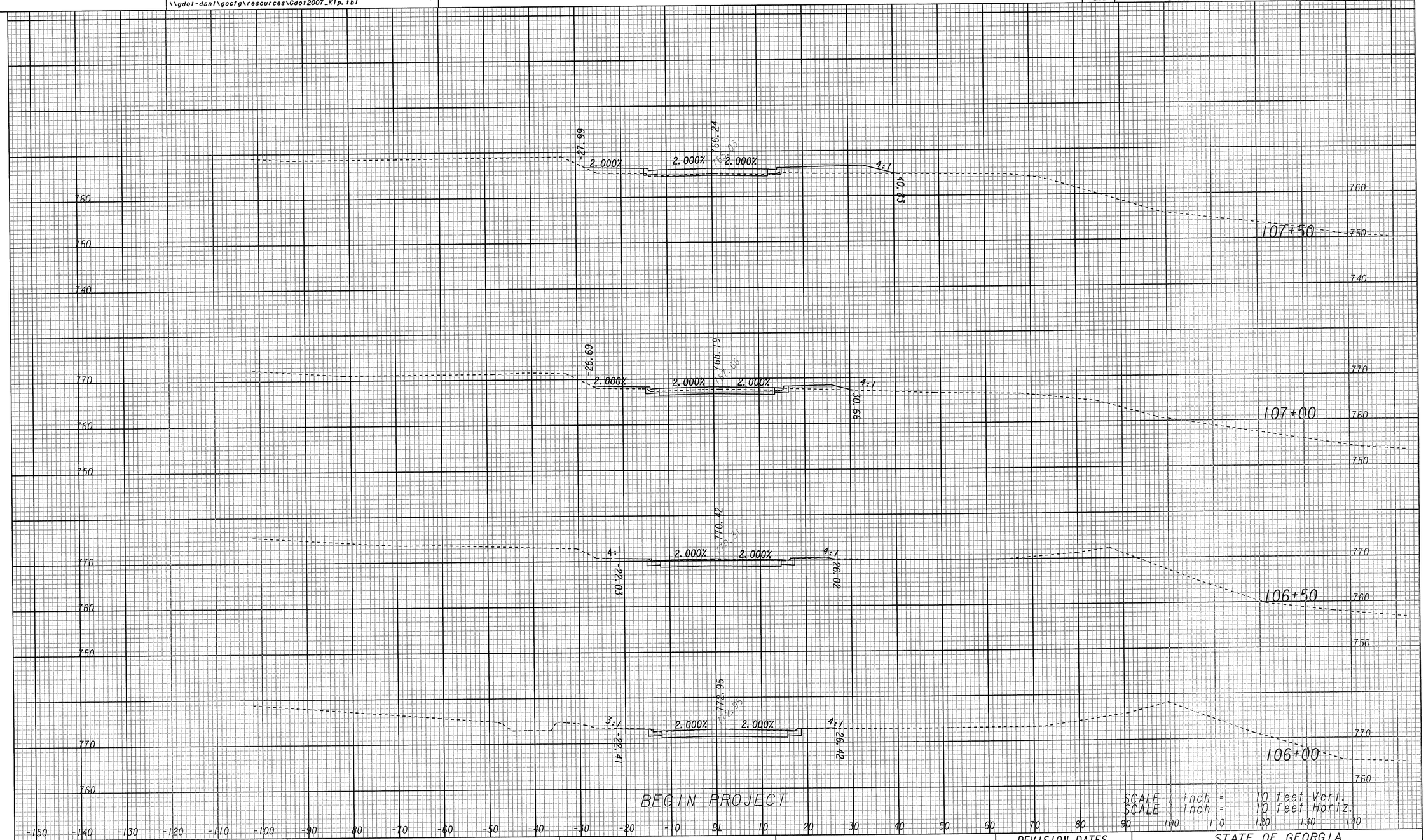
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-001(002)		



331910

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
CROSS SECTIONS
JORDAN HILL ROAD BRIDGE
DRAWING No. 23-01

3/1/2007 SUYSEW

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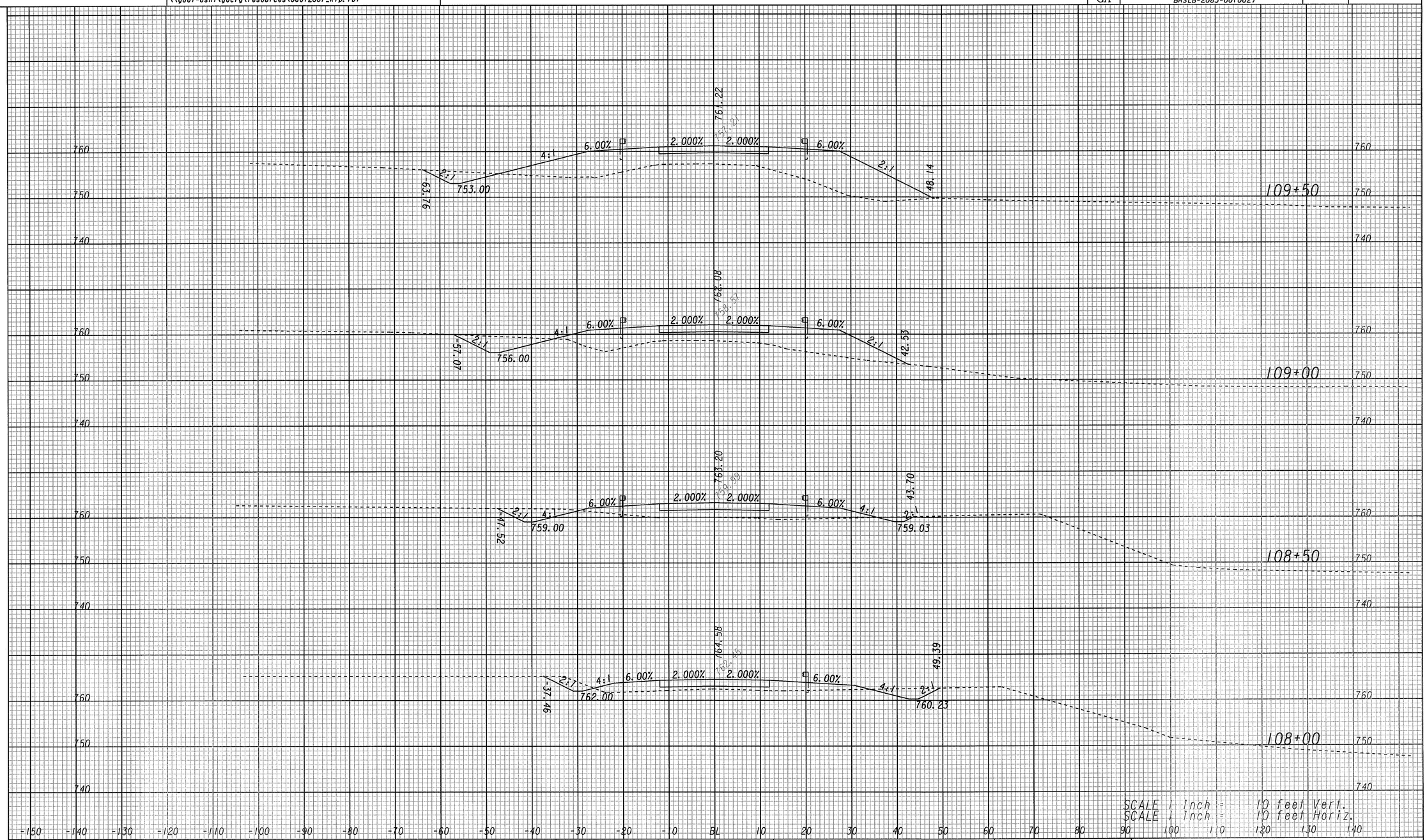
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



331910

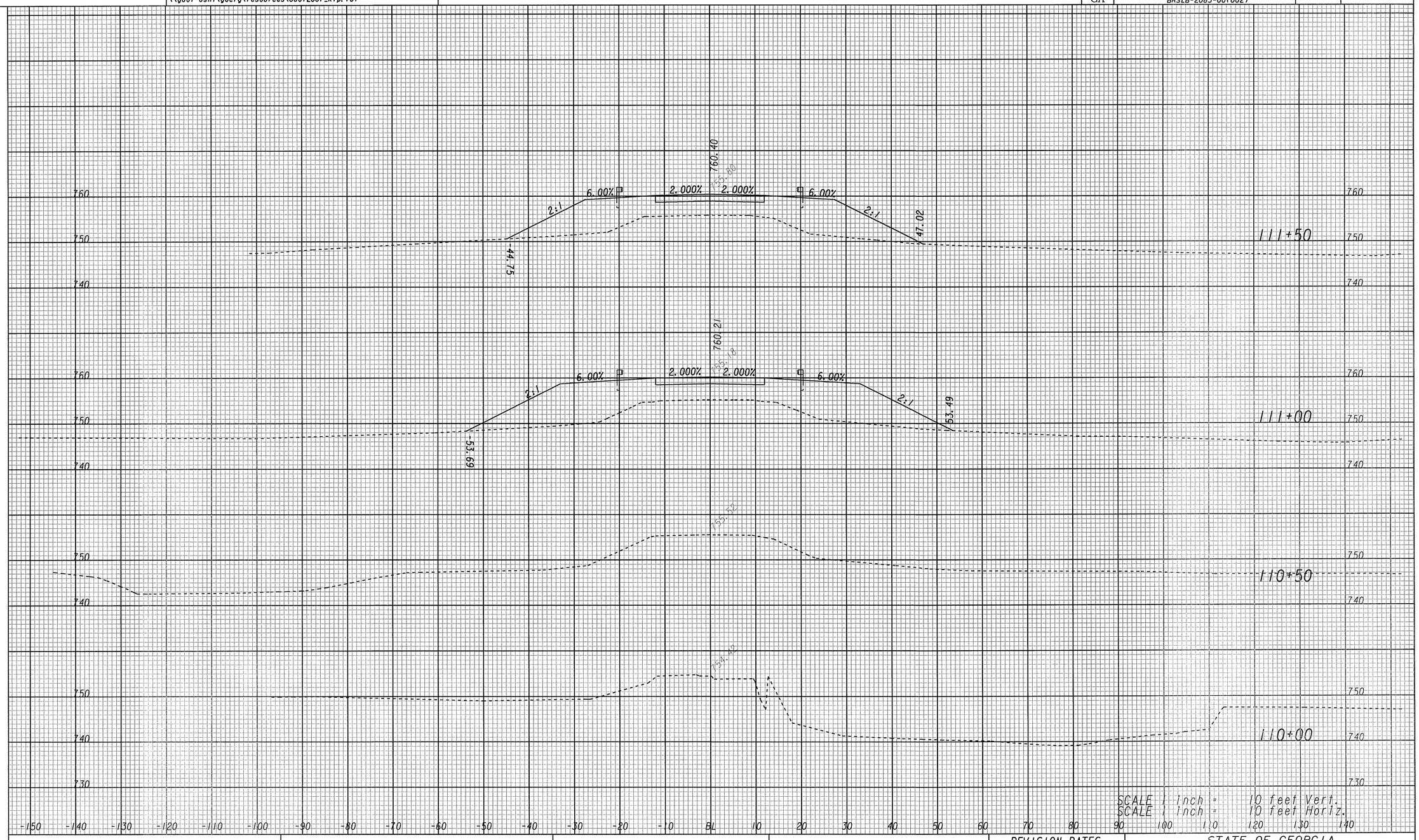
GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
CROSS SECTIONS
JORDAN HILL ROAD BRIDGE

DRAWING No. 23-02

3/1/2007 SUXSEW



331910

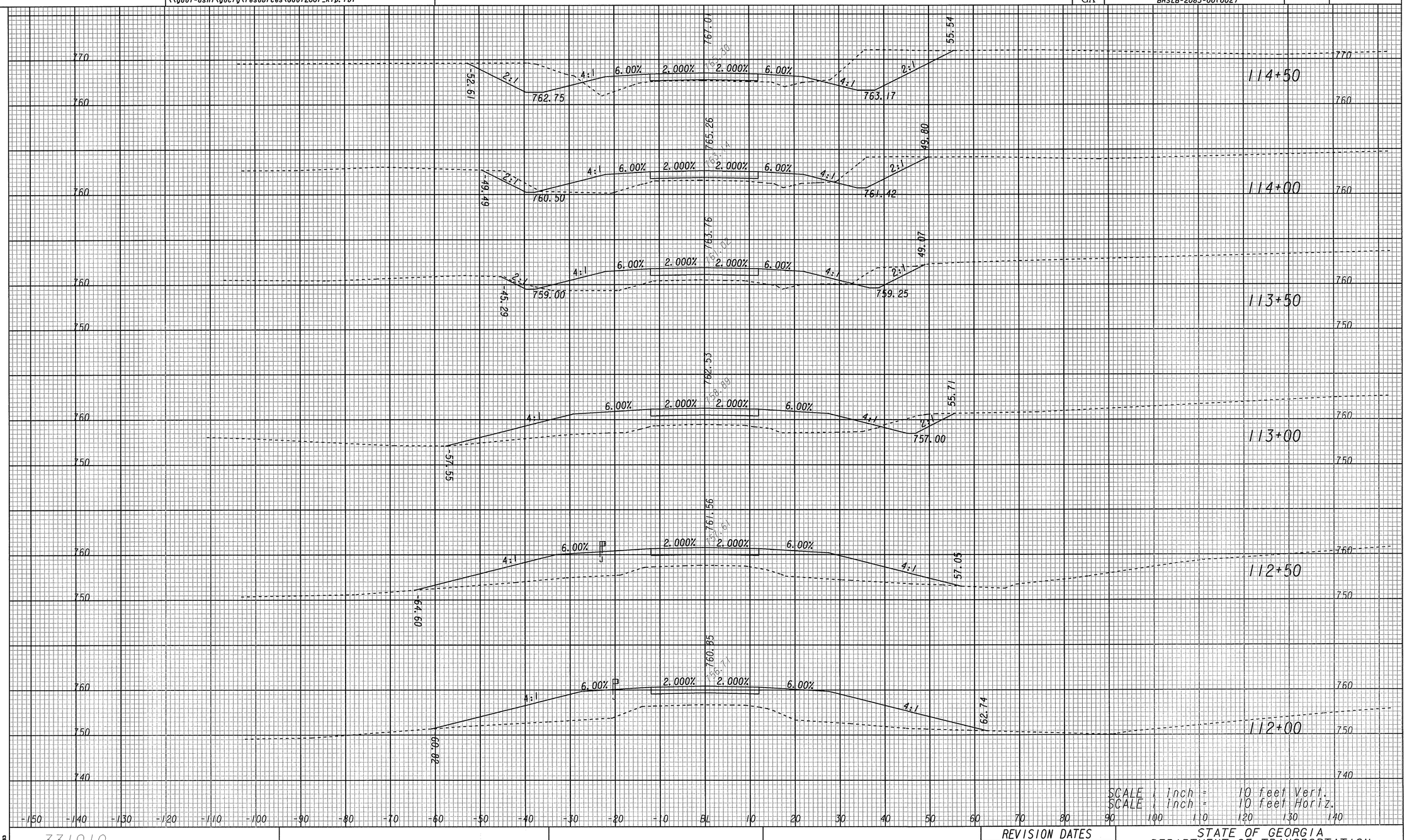
GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
CROSS SECTIONS
JORDAN HILL ROAD BRIDGE
DRAWING No. 23-03

3/1/2007 SUYSEW

10/12/2011 Wed Oct 12 13:49:12 2011 agee	\\gdot-dsnl\gocfg\resources\Gdot2007_Klp.tbl	H:\WorkTDP\SPALDING 331910\DGN\WJBDGN\331910XSEC.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	BRSLB-2083-001(002)		



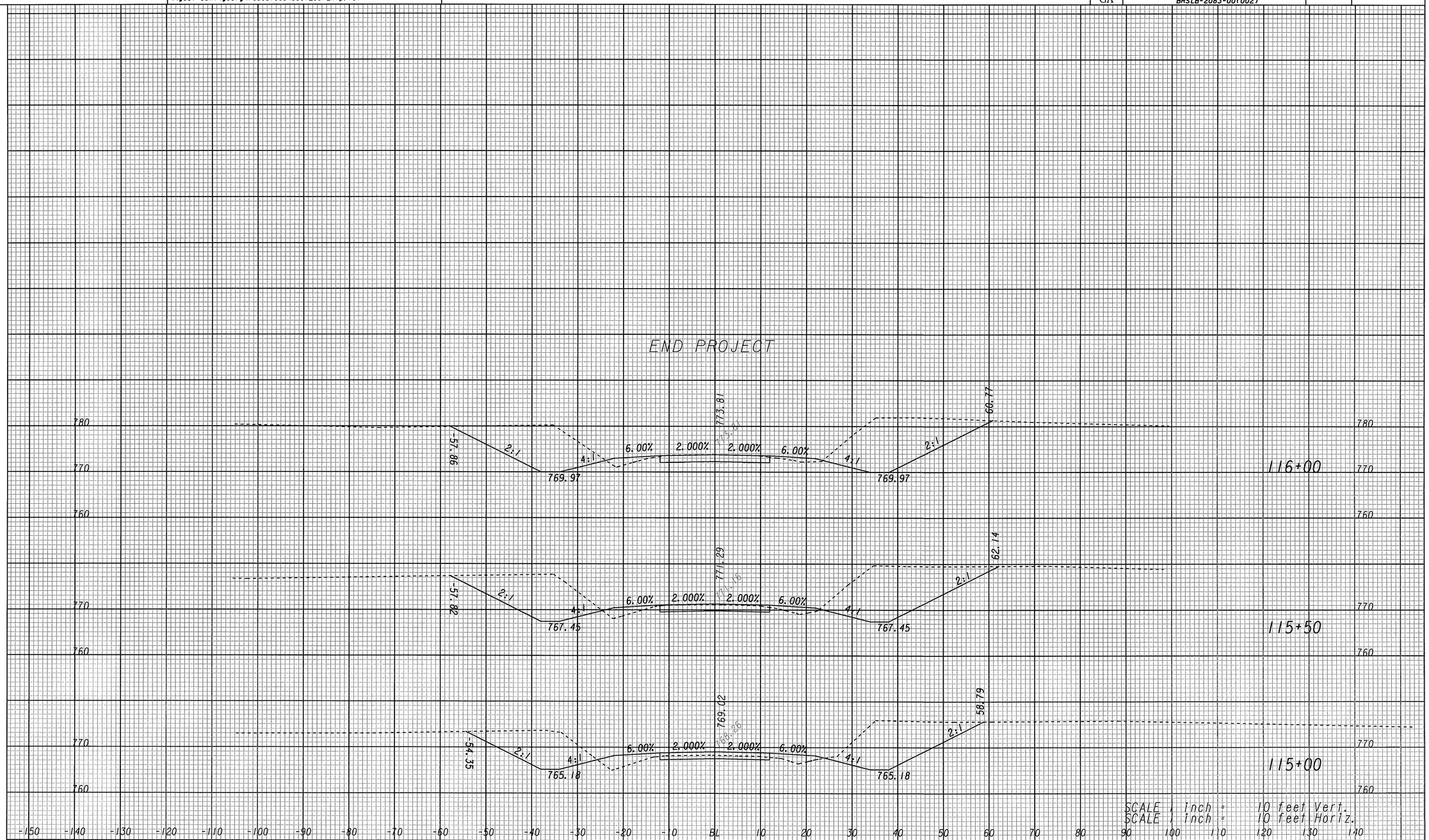
331910

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
CROSS SECTIONS
JORDAN HILL ROAD BRIDGE
DRAWING No. 23-04

3/11/2007 SUXSEW



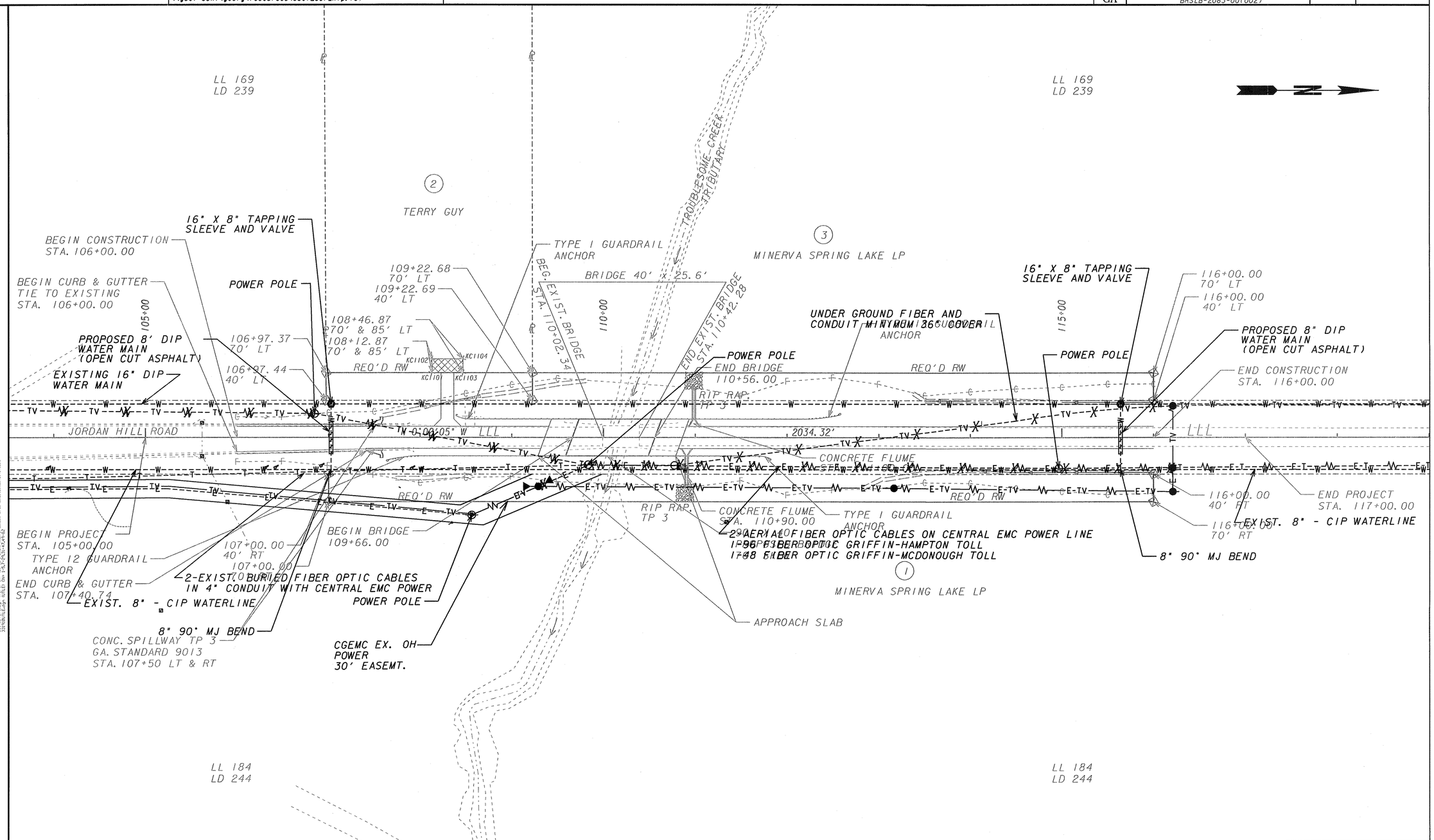
331910

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
CROSS SECTIONS
JORDAN HILL ROAD BRIDGE
DRAWING No. 23-05

3/11/2007 SUXSEW



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

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

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

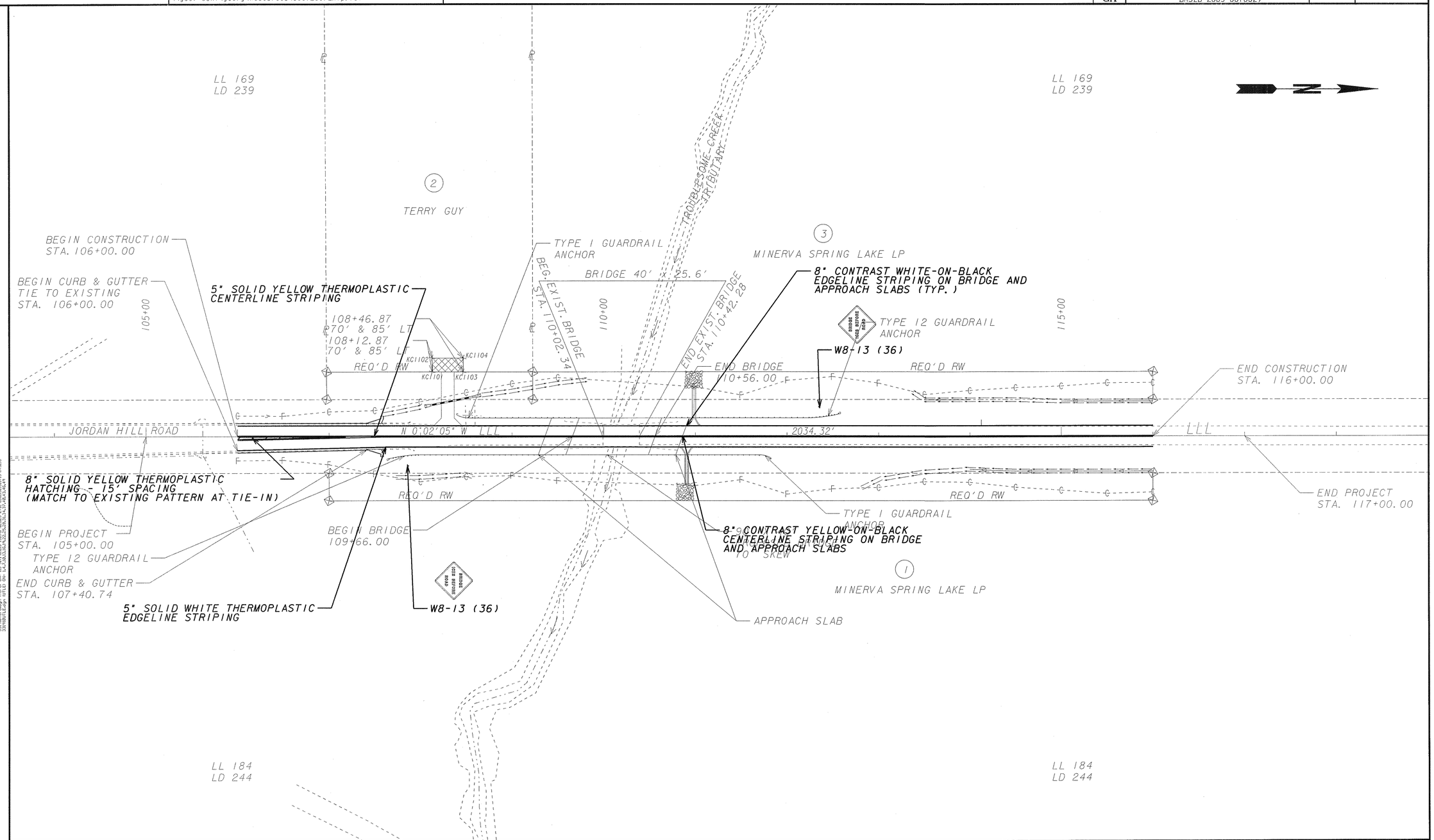
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

UTILITY PLANS

JORDAN HILL ROAD BRIDGE

DRAWING No. 24-01

1/5/2009 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

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

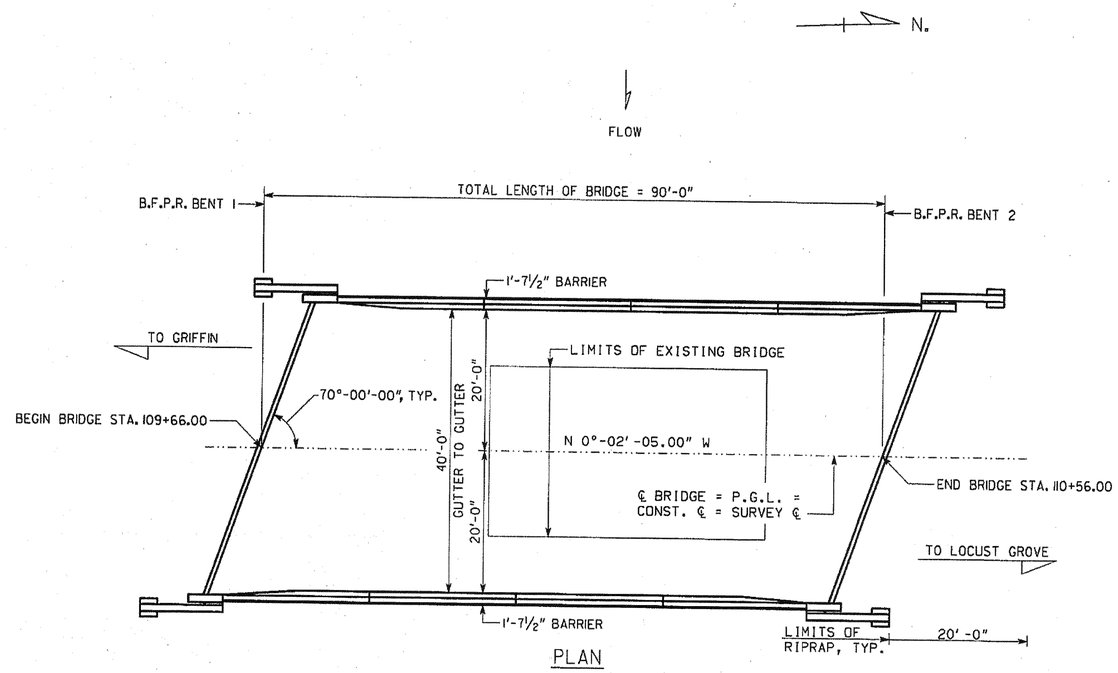
SIGNING AND MARKING PLANS

JORDAN HILL ROAD BRIDGE

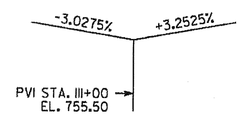
DRAWING No. 26-01

1/5/2009 GPLM

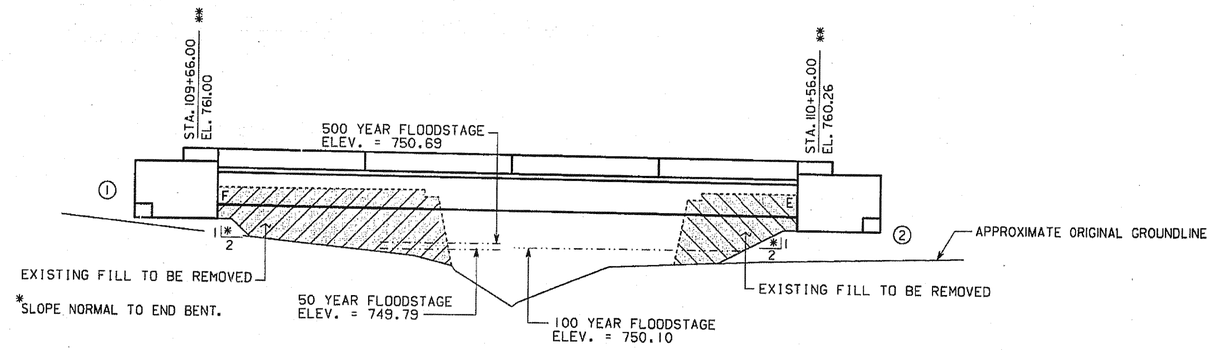
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN

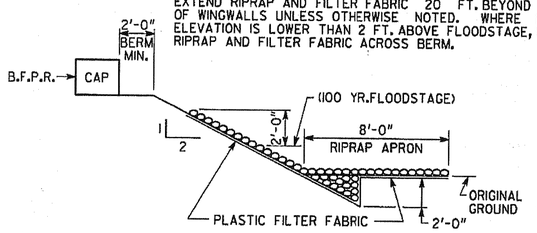


VERTICAL CURVE DATA



ELEVATION

PLACE RIPRAP AND FILTER FABRIC FROM 2 FT. BELOW ORIGINAL GROUND TO 2 FT. ABOVE FLOODSTAGE ELEVATION. EXTEND RIPRAP AND FILTER FABRIC 20 FT. BEYOND END OF WINGWALLS UNLESS OTHERWISE NOTED. WHERE BERM ELEVATION IS LOWER THAN 2 FT. ABOVE FLOODSTAGE, EXTEND RIPRAP AND FILTER FABRIC ACROSS BERM.



RIPRAP DETAIL @ BENT 2

NO SCALE

NOTES:

1. END BENT PILES NOT SHOWN.
2. ALL BENTS ARE PARALLEL.

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

BRIDGE NO. 1

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

PLAN AND ELEVATION
C.R. 508 (JORDAN HILL ROAD)
OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

NO SCALE JULY 2010

DRAWING NO. 35-01
BRIDGE SHEET 1 OF 10

REVISIONS | DATE | BY

DESIGNED SLW | CHECKED ACB | REVIEWED WEI/WMD
DRAWN RCA | DESIGN GROUP ACB | APPROVED BFR

X.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BRIDGE CONSISTS OF

1 - 90'-0" BULB TEE, 54 IN, PSC BEAM SPAN ---------- SPECIAL DESIGN

2 - STEEL H PILE END BENTS ---------- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ------- GA. STD. 3054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 2'-8")
(L = 4'-6"; W = 1'-1"; H = 2'-8")

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-69)

TYPICAL FILL DETAIL AT END OF BRIDGE ---------- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA ---------- 1.74 SQ MILES

FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	1222 CFS	6.75 FPS	181 SQ FT.	0.21 FT
100 YEAR	1404 CFS	7.09 FPS	198 SQ FT	0.30 FT
500 YEAR	1806 CFS	7.79 FPS	232 SQ FT	0.54 FT

TRAFFIC DATA

TRAFFIC ---------- ADT = 1,500 (2011)
ADT = 20,000 (2031)

DESIGN SPEED ---------- 45 MPH

TRUCKS ---------- 8 %

24 HR TRUCKS ---------- 10 %

DIRECTIONAL ---------- 60/40 %

UTILITIES ON BRIDGE

NONE

EXISTING UTILITIES

OVERHEAD POWER LINE ON UPSTREAM SIDE OF EXISTING BRIDGE

BURIED FIBER OPTIC CABLE ON UPSTREAM SIDE OF EXISTING BRIDGE

TELEPHONE CONDUIT ATTACHED TO UPSTREAM OVERHANG OF EXISTING BRIDGE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.

DRIVING DATA PILE - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 1.

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

CONCRETE: SUPERSTRUCTURE ---------- CLASS AA, f'_c = 3,500 PSI
PSC BEAMS ---------- CLASS AAA, f'_c = SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION ---------- SEE BEAM SHEETS
SUBSTRUCTURE ---------- CLASS A, f'_c = 3,000 PSI

REINFORCEMENT STEEL: ---------- GRADE 60, f_y = 60,000 PSI

PRETENSIONING STRANDS: ---------- f'_s = 270,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-0100	380	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (128)
500-2100	168	LF	CONCRETE BARRIER
500-3101	47	CY	CLASS A CONCRETE
507-9030	528	LF	PSC BEAMS, AASHTO, BULB TEE, 54 IN
511-1000	5234	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO-1(30166)
520-1147	355	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73(IF REQD)
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO.110+11
603-2024	400	SY	STN DUMPED RIP RAP, TP 1, 24 IN
603-7000	400	SY	PLASTIC FILTER FABRIC

BRIDGE NO. 1

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

GENERAL NOTES
C.R. 508 (JORDAN HILL ROAD)
OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

DATE | REVISIONS | BY

DRAWING NO. 35-02
BRIDGE SHEET 2 OF 10

NO SCALE — DECEMBER 2010

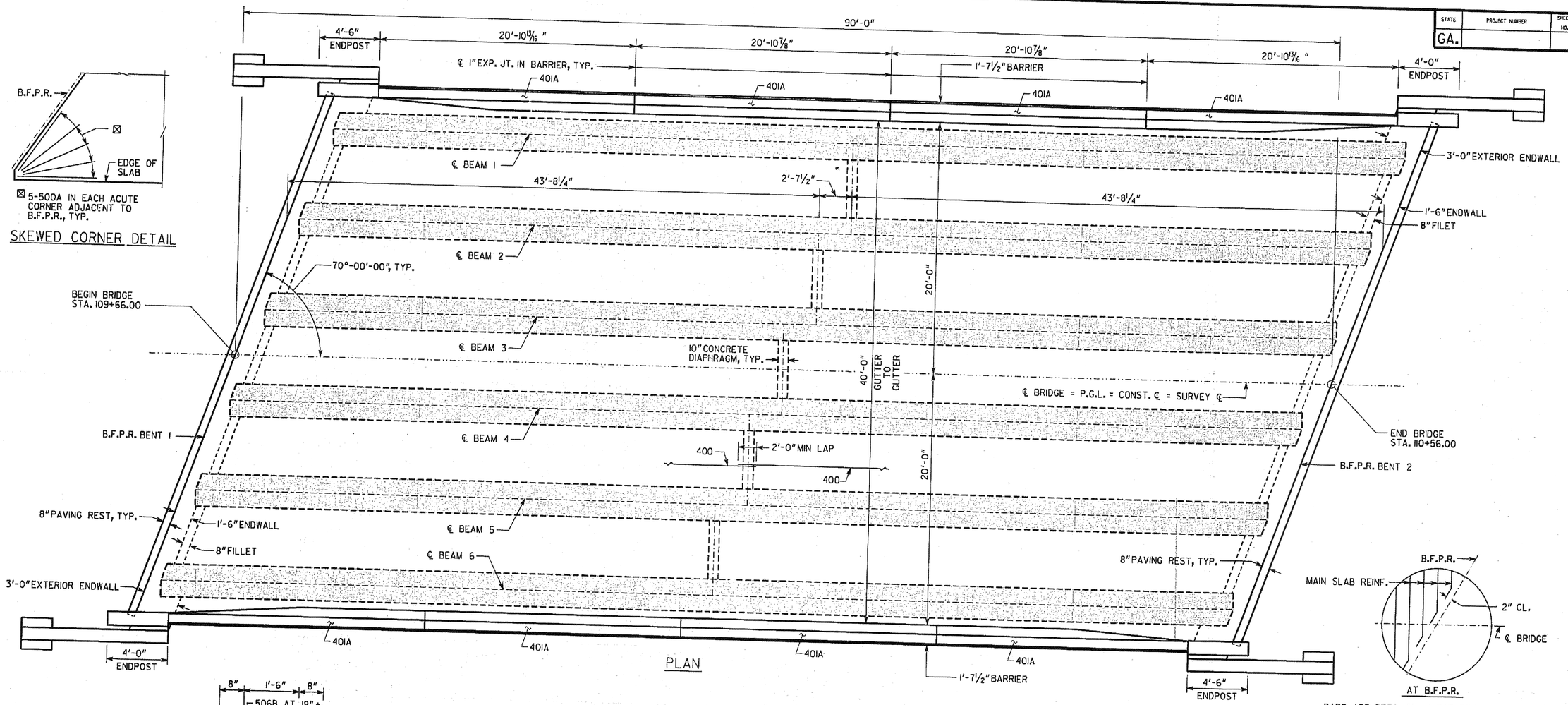
DESIGNED SLW | CHECKED BT | REVIEWED WEI/WMD
DRAWN RCA/SLW | DESIGN GROUP ACB | APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

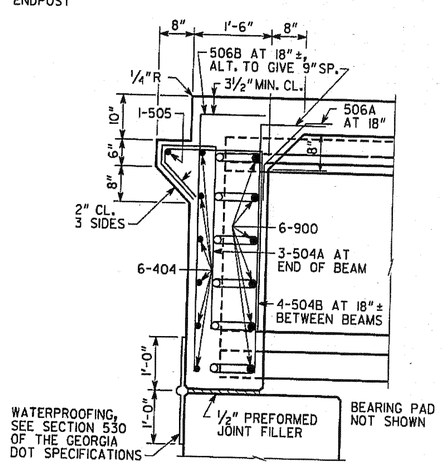
X.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

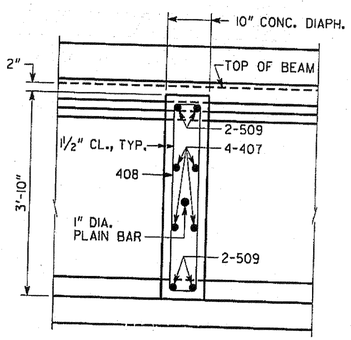
SKEWED CORNER DETAIL



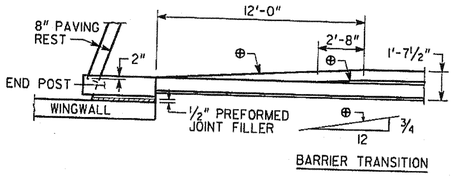
PLAN



SECTION AT ENDWALL



SECTION THRU DIAPHRAGM



BARRIER TRANSITION DETAIL

AT B.F.P.R.

BARS ARE DETAILED IN BAR DETAILS AS EQUIVALENT FULL LENGTH BARS.

BAR BENDING DETAILS AT SKEWED JOINTS

SUPERSTRUCTURE QUANTITIES	
ITEM	SPAN 1
LUMP - SUPERSTR. CONCRETE, CU. YDS., CLASS "AA"	128.0
LUMP - SUPERSTR. REINF. STEEL, LBS.	30166

END POST CONCRETE AND BAR REINFORCEMENT STEEL INCLUDED IN END SPAN QUANTITIES

BRIDGE NO. 1

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

DATE | REVISIONS | BY

DECK PLAN DETAILS
C.R. 508 (JORDAN HILL ROAD) OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

DRAWING NO. 35-03
BRIDGE SHEET 3 OF 10

NO SCALE
JULY 2010

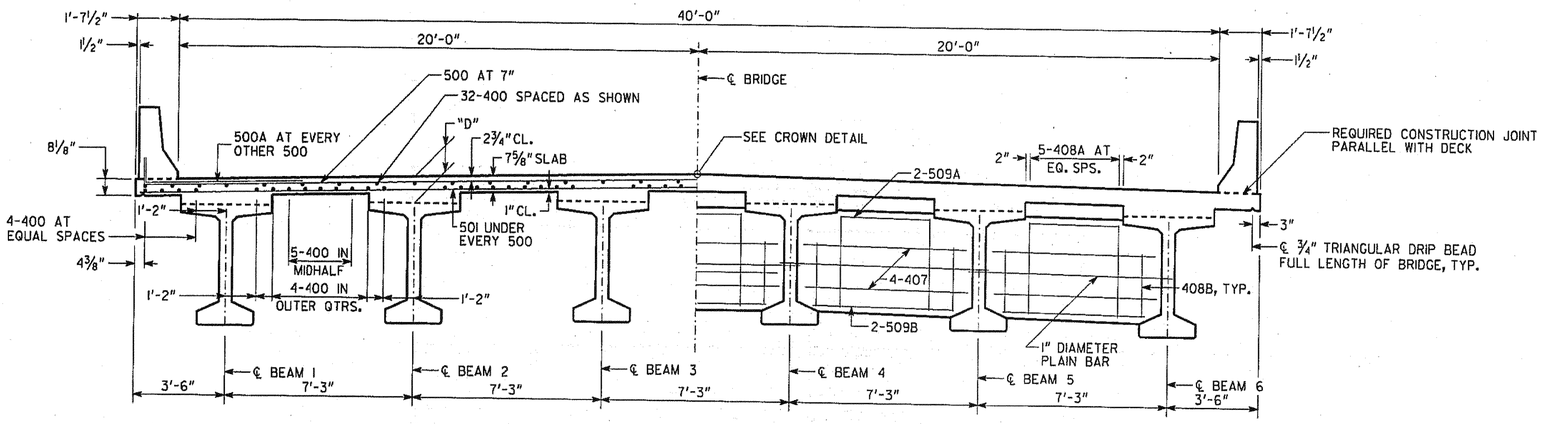
DESIGNED SLW | CHECKED ACB | REVIEWED WEI/WMD
DRAWN RCA | DESIGN GROUP ACB | APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

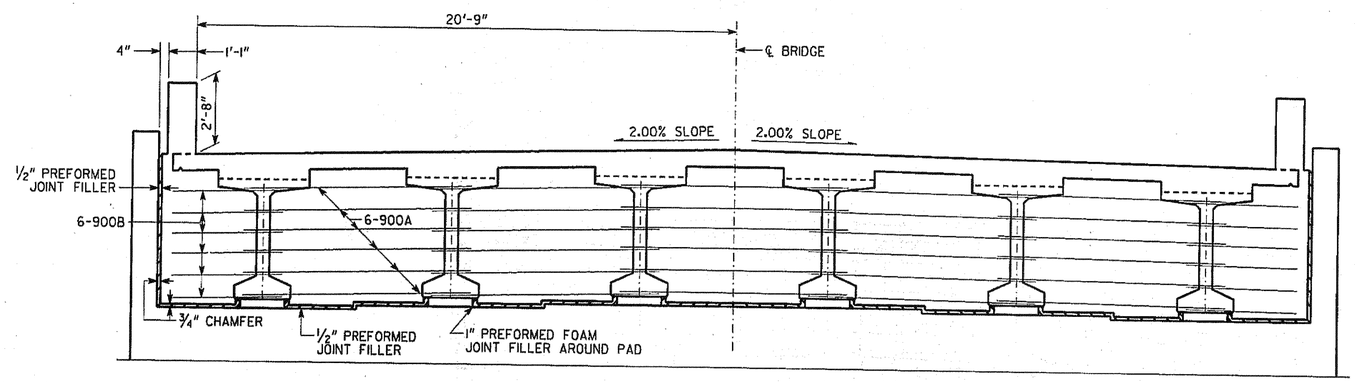
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DIMENSION "D" IS MEASURED FROM TOP OF SLAB TO TOP OF BEAMS AT CENTERLINE BEARING. VARY "D" BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTION AND VERTICAL CURVE. MAINTAIN A SLAB THICKNESS OF 7⅝", 8⅛" IN OVERHANGS.
"D" = 11⅛" AT INTERIOR BEAMS
"D" = 11⅝" AT EXTERIOR BEAMS

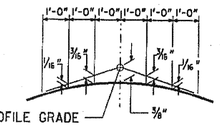


SECTION THRU SLAB

SECTION THRU DIAPHRAGM



SECTION THRU ENDWALL

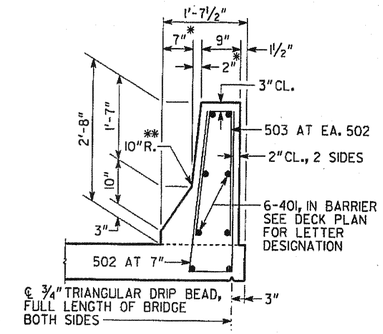


CROWN DETAIL

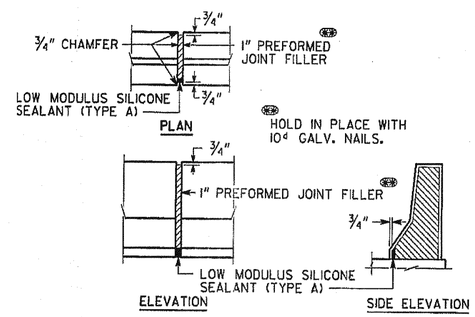
2.00% CROSS SLOPE

* TAPERS TO 0" AT END POST

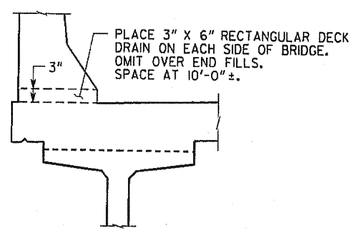
** AT CONTRACTOR'S OPTION, 10" RADIUS MAY BE REPLACED BY STRAIGHT INTERSECTING SLOPES.



BARRIER DETAIL



DETAILS OF 1" EXPANSION JOINT IN BARRIER



DECK DRAIN DETAIL

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

DECK SECTION DETAILS
C.R. 508 (JORDAN HILL RD.) OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

REVISIONS	DATE	BY

DRAWING NO. 35-04
BRIDGE SHEET 4 OF 10

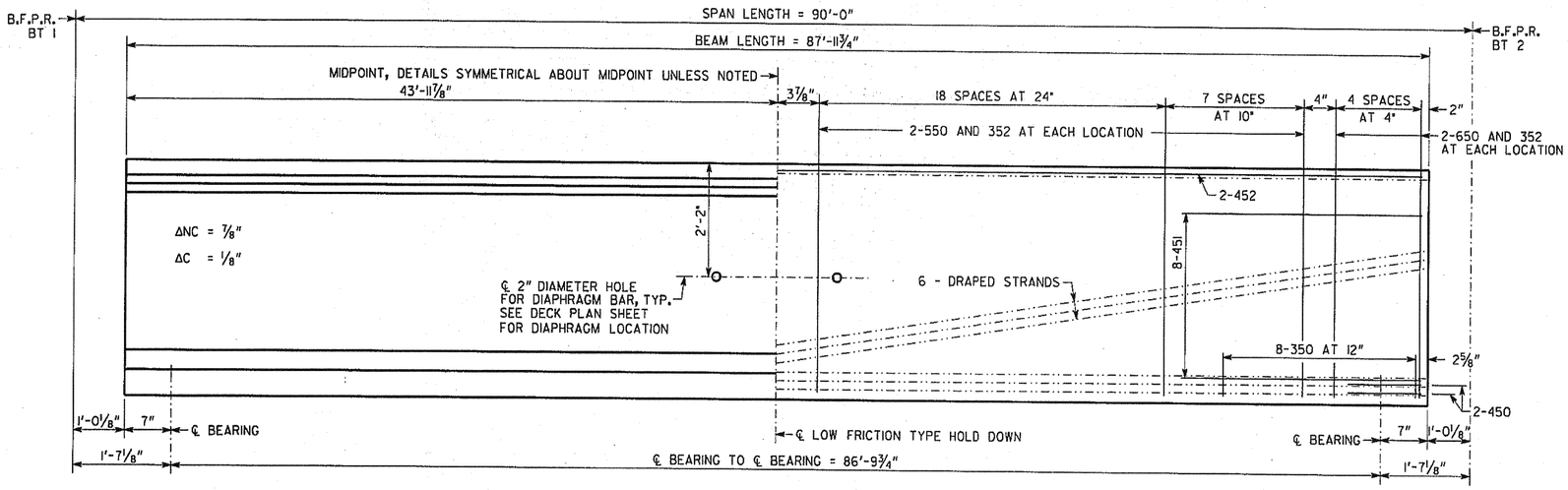
NO SCALE — JUNE 2010

DESIGNED SLW — CHECKED ACB — REVIEWED WEI/WMD
DRAWN RCA — DESIGN GROUP ACB — APPROVED BFR

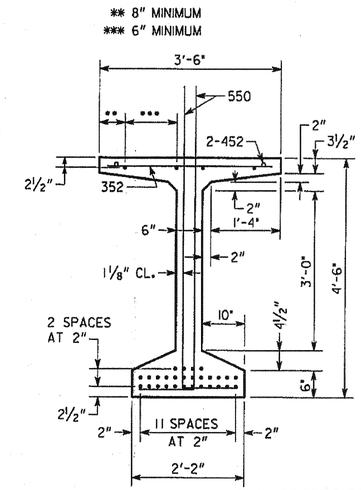
X.DGN

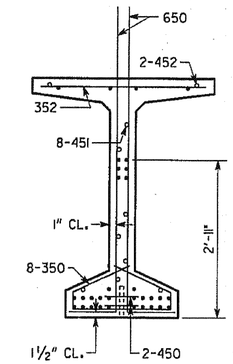
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

⊛ ONE HOLE REQUIRED IN EXTERIOR BEAMS.



ELEVATION



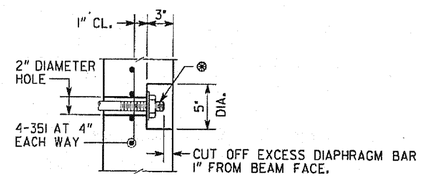


MAINTAIN 1" MINIMUM CLEARANCE UNLESS SHOWN.
• INDICATES ½" DIAMETER PRESTRESSED STRANDS.

SECTION AT MIDPOINT SECTION AT END

NOTES

1. BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 6'-9" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.
2. CHAMFER EDGES OF BEAMS ½", ¾" OR 1".
3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE ⅛" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.
4. AT ℄ BEARING, FORM A 1½" DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 6" X 1½" X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A 1¼" DIAMETER SMOOTH DOWEL. SEE PLAN AND ELEVATION SHEET FOR LOCATION OF FIXED AND EXPANSION ENDS.
5. TOPS OF BEAMS SHALL BE ROUGH FLOATED AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE FOR BONDING TO THE SLAB. ROUGHENED SURFACE SHALL HAVE AN AMPLITUDE OF APPROXIMATELY ¼". CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.
6. NON-COMPOSITE DEAD LOAD DEFLECTION (ΔNC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE SLAB AND COPING.
7. COMPOSITE DEAD LOAD DEFLECTION (ΔC) AT THE MIDPOINT IS DUE TO THE WEIGHT OF BARRIER.
8. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.
9. PRESTRESSING DATA IS AS FOLLOWS:
   A. USE 32 - ½" DIAMETER LOW-RELAXATION (A = 0.167 SQ IN) STRANDS. PRETENSION TOP FOUR (4) STRANDS TO 10,000 LBS EACH. PRETENSION BOTTOM STRANDS TO 33,818 LBS EACH.
   B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_{ci}) OF 4,500 PSI.
   C. INCLUDING THE TOP STRANDS, THE TOTAL JACKING FORCE OF PRETENSIONING IS 986,904 LBS.
   D. INCLUDING THE TOP STRANDS, THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS 753,127 LBS.
10. CONCRETE STRENGTH (f'_c) = 5,000 PSI.
11. ALLOWABLE PSC BEAM TENSION = 424 PSI.



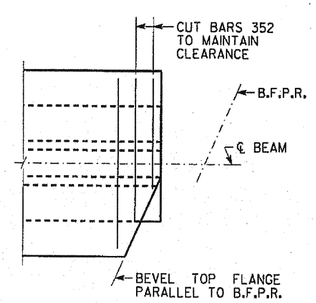
⊛ DIAPHRAGM BAR SHALL BE A 1" DIAMETER PLAIN BAR, THREADED 5" ON EACH END, WITH ¼" X 3½" DIAMETER WASHERS AND HEX NUTS (ASTM A 709 GRADE 36).

DIAPHRAGM BAR SHALL BE TIGHTENED AS PER SUB-SECTION 507.3.05C OF THE GEORGIA DOT SPECIFICATIONS.

AFTER EXCESS DIAPHRAGM BAR HAS BEEN CUT OFF, END OF DIAPHRAGM BAR, WASHER, AND NUT EXPOSED IN RECESS SHALL BE PAINTED WITH SPECIAL PROTECTIVE COATING NO. 2 P AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. AFTER PAINTING, THE RECESS SHALL BE FILLED WITH AN APPROVED EPOXY GROUT.

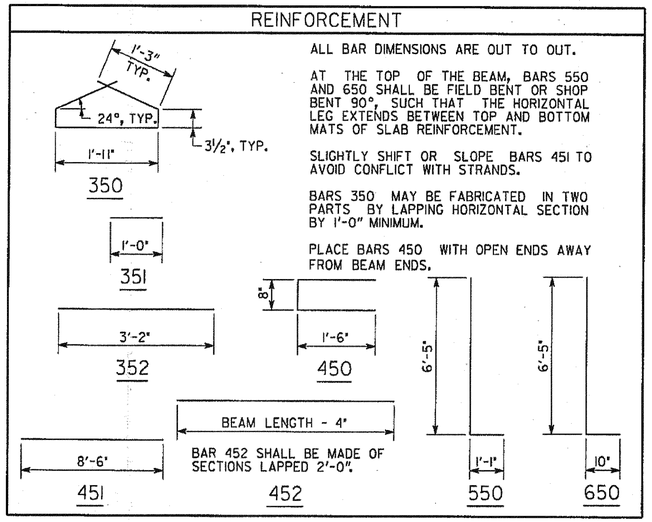
GALVANIZING OF DIAPHRAGM BAR AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS NOT REQUIRED.

RECESS DETAIL FOR DIAPHRAGM BAR ENDS



BEVEL DETAILS

REINFORCEMENT



ALL BAR DIMENSIONS ARE OUT TO OUT.

AT THE TOP OF THE BEAM, BARS 550 AND 650 SHALL BE FIELD BENT OR SHOP BENT 90°, SUCH THAT THE HORIZONTAL LEG EXTENDS BETWEEN TOP AND BOTTOM MATS OF SLAB REINFORCEMENT.

SLIGHTLY SHIFT OR SLOPE BARS 451 TO AVOID CONFLICT WITH STRANDS.

BARS 350 MAY BE FABRICATED IN TWO PARTS BY LAPPING HORIZONTAL SECTION BY 1'-0" MINIMUM.

PLACE BARS 450 WITH OPEN ENDS AWAY FROM BEAM ENDS.

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

BULB TEE, 54 IN PSC BEAM
C.R. 508 (JORDAN HILL ROAD)
OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

DATE	REVISIONS	BY

DRAWING NO. 35-05
BRIDGE SHEET 5 OF 10

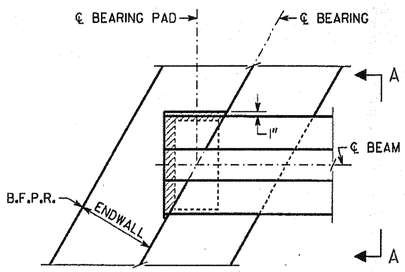
NO SCALE DECEMBER 2010

DESIGNED SLW CHECKED BT REVIEWED WEI/WMD
DRAWN RCA/SLW DESIGN GROUP ACB APPROVED BFR

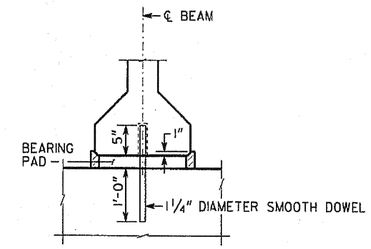
REVISED DECEMBER 15, 2000

BULB542.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



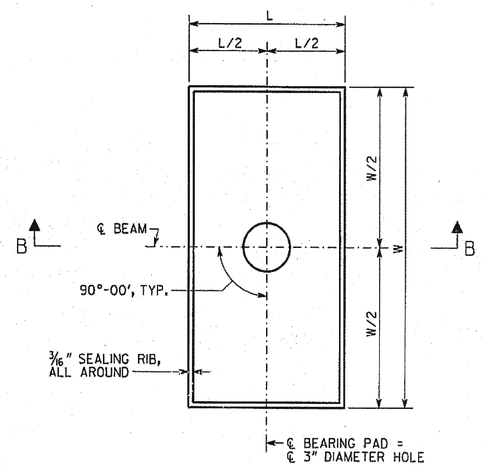
PLAN
BENT 1 SHOWN
BENT 2 SIMILAR



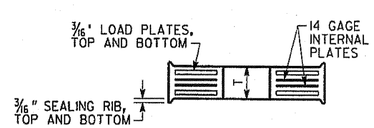
PREFORMED FOAM JOINT FILLER SHALL BE FURNISHED IN ACCORDANCE WITH SUB-SECTION 833.2.10 OF THE GEORGIA DOT SPECIFICATIONS.

ENDWALL NOT SHOWN

SECTION A-A



PLAN



SECTION B-B

BEARING PAD

NOTES

1) BEARING PADS HAVE BEEN DESIGNED ACCORDING TO AASHTO SPECIFICATIONS DIVISION I, SECTION 14.6.6 AND SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO SPECIFICATIONS DIVISION II, SECTION 18, BEARINGS.

2) 1 1/4" DIAMETER SMOOTH DOWELS SHALL BE ASTM A 709 GRADE 36.

3) BEARING PADS SHALL BE MADE OF 60 DUROMETER HARDNESS NEOPRENE, GRADE 2 OR HIGHER.

4) 3" DIAMETER HOLE IN BEARING PADS MAY BE FORMED OR DRILLED.

5) BEARING PADS SHALL HAVE 1/4" COVER ON THE TOP, BOTTOM, AND SIDES AND AROUND THE HOLE.

6) 3/16" LOAD PLATES AND 14 GAGE INTERNAL PLATE(S) (IF REQUIRED) SHALL BE ASTM A 709 GRADE 36 OR ASTM A 1011 GRADE 36.

7) NUMBER OF INTERNAL PLATES SHOWN FOR ILLUSTRATION PURPOSES ONLY. THE NUMBER OF INTERNAL PLATE(S) SPECIFIED SHALL BE EQUALLY SPACED BETWEEN LOAD PLATES.

8) USE OF 1 1/2° MOLD DRAFT IS OPTIONAL.

BENT	BEARING PADS							
						DESIGN LOADS (KIPS)		
	W	L	T	NUMBER OF INTERNAL PLATE(S)	DESIGN SHEAR DEFLECTION	DEAD LOAD	LIVE LOAD (NO IMPACT)	DEAD LOAD + LIVE LOAD
1	18"	9"	1 3/8"	1	0	86	47.3	133.3
2	18"	9"	1 3/8"	1	1/2"	86	47.3	133.3

BRIDGE NO. 1

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

BEARING DETAILS
C.R. 508 (JORDAN HILL ROAD)
OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

DATE | REVISIONS | BY

DRAWING NO. 35-06
BRIDGE SHEET 6 OF 10

NO SCALE DECEMBER 2010

DESIGNED SLW | CHECKED BT | REVIEWED WEI/WMD
DRAWN RCA/SLW | DESIGN GROUP ACB | APPROVED BFR

REVISED DECEMBER 15, 2000

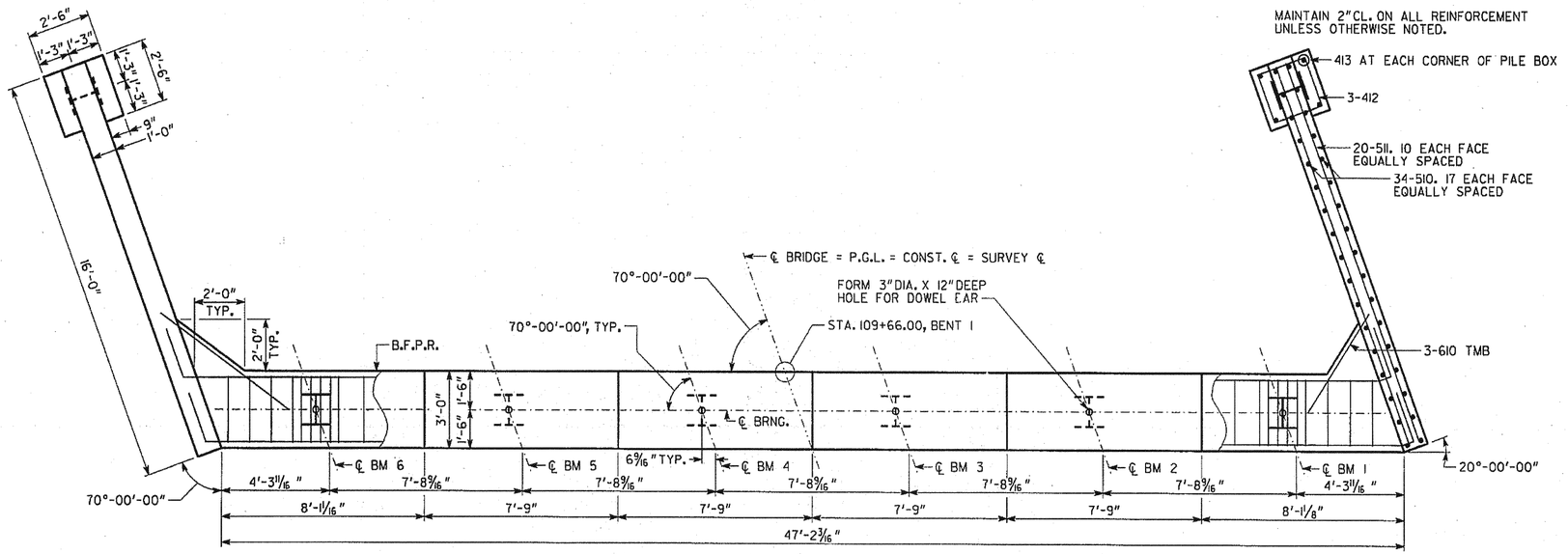
BEARING.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

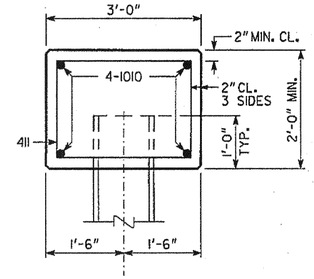
SEE GA STD 9037 FOR DRAINAGE DETAILS AT END BENTS.

POUR WINGWALLS MONOLITHICALLY WITH CAP.

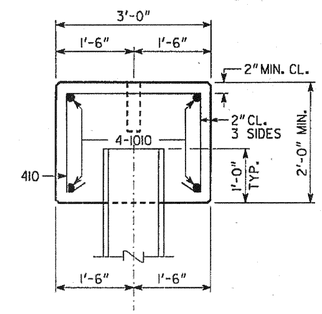
MAINTAIN 2"CL. ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.



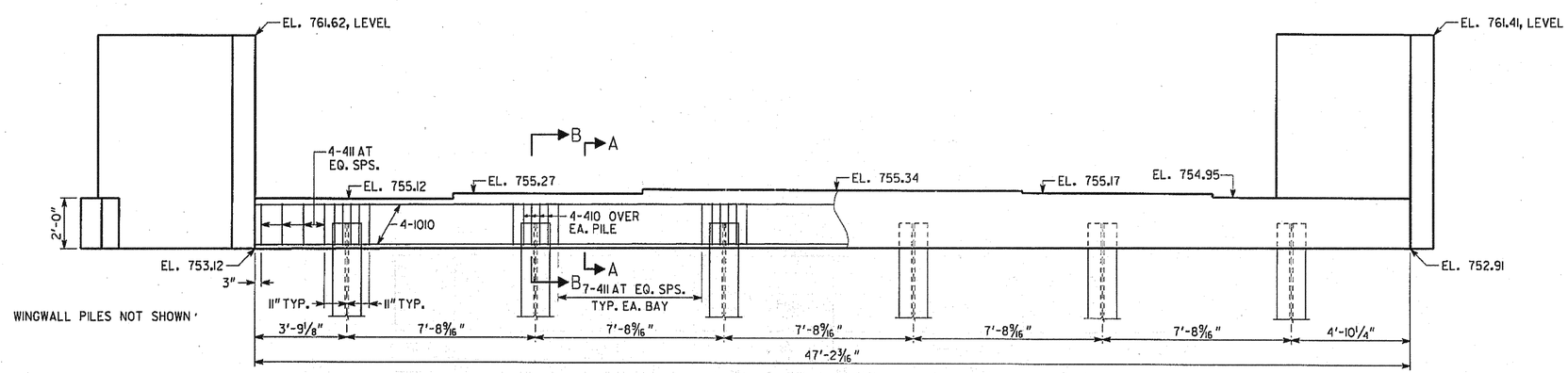
PLAN



SECTION A-A



SECTION B-B



ELEVATION
BENT 1
(LOOKING BACK)

ALL PILES SHALL BE STEEL H, HP 14X73

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 80 TONS AFTER A MINIMUM TIP ELEVATION OF 735 IS ACHIEVED.

SUBSTRUCTURE QUANTITIES

ITEM	BENT 1
CU YD CLASS "A" CONCRETE	23.4
LB BAR REINFORCEMENT STEEL	2617

BRIDGE NO. 1

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

END BENT 1 DETAILS
C.R. 508 (JORDAN HILL ROAD) OVER TROUBLESOME CREEK TRIBUTARY
SPAULDING COUNTY BRSLB-2083-00(002)

DATE	REVISIONS	BY

DRAWING NO. 35-07
BRIDGE SHEET 7 OF 10

NO SCALE — OCTOBER 2010

DESIGNED SLW — CHECKED ACB — REVIEWED WEI/WMD
DRAWN RCA — DESIGN GROUP ACB — APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

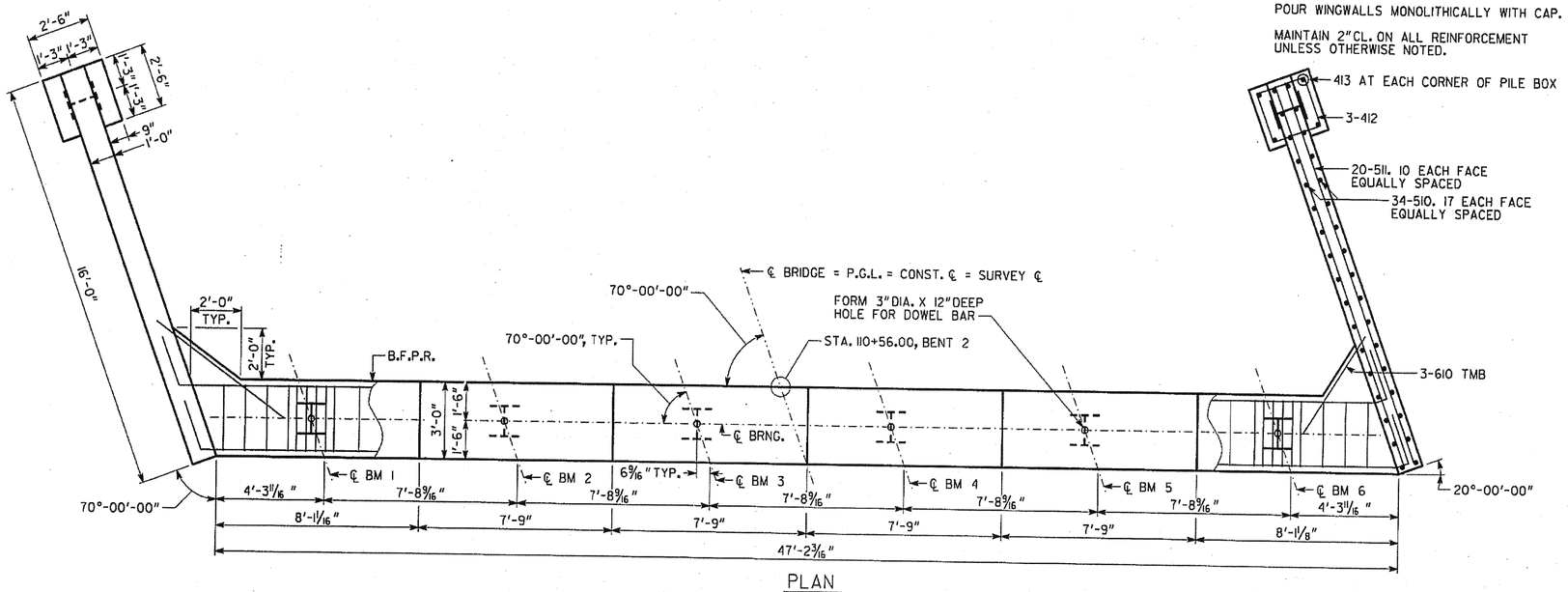
X.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

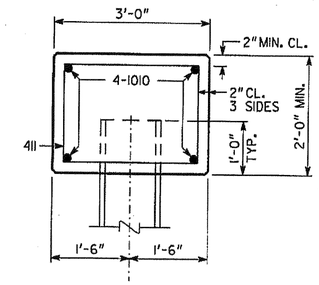
SEE GA STD 9037 FOR DRAINAGE DETAILS AT END BENTS.

POUR WINGWALLS MONOLITHICALLY WITH CAP.

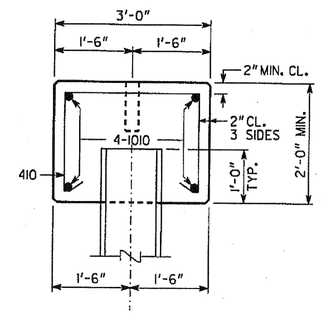
MAINTAIN 2"CL. ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.



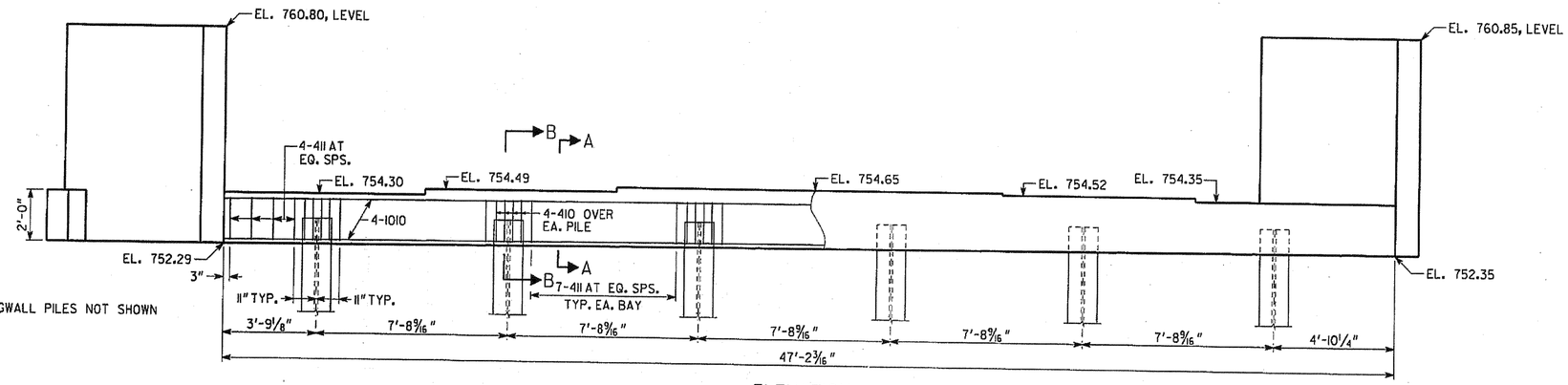
PLAN



SECTION A-A



SECTION B-B



ELEVATION
BENT 2
(LOOKING AHEAD)

ALL PILES SHALL BE STEEL H, HP 14X73

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 80 TONS AFTER A MINIMUM TIP ELEVATION OF 735 IS ACHIEVED.

SUBSTRUCTURE QUANTITIES

ITEM	BENT 2
CU YD CLASS "A" CONCRETE	23.4
LB BAR REINFORCEMENT STEEL	2617

BRIDGE NO. 1

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

END BENT 2 DETAILS
C.R. 508 (JORDAN HILL ROAD) OVER TROUBLESOME CREEK TRIBUTARY
SPAULDING COUNTY BRSLB-2083-00(002)

REVISIONS	BY	DATE

DRAWING NO. 35-08
BRIDGE SHEET 8 OF 10

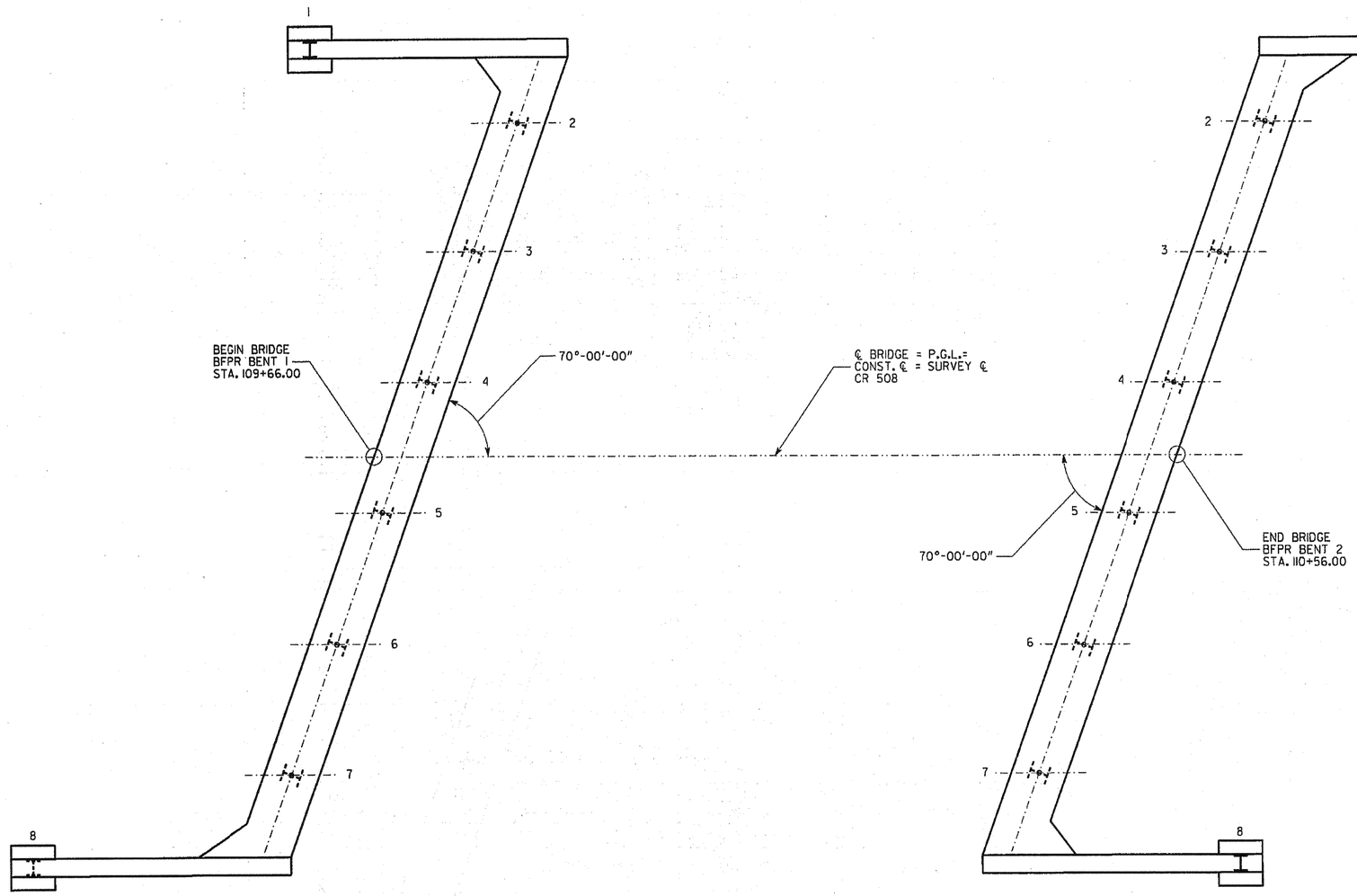
NO SCALE — OCTOBER 2010

DESIGNED SLW — CHECKED ACB — REVIEWED WEI/WMD
DRAWN RCA — DESIGN GROUP ACB — APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



AS-BUILT FOUNDATION INFORMATION END BENT 2		
PILE LOCATIONS	PILE NO.	PILE TIP ELEVATION
LT WINGWALL	1	
BEAM 1	2	
BEAM 2	3	
BEAM 3	4	
BEAM 4	5	
BEAM 5	6	
BEAM 6	7	
RT. WINGWALL	8	

AS-BUILT FOUNDATION INFORMATION END BENT 1		
PILE LOCATIONS	PILE NO.	PILE TIP ELEVATION
LT WINGWALL	1	
BEAM 1	2	
BEAM 2	3	
BEAM 3	4	
BEAM 4	5	
BEAM 5	6	
BEAM 6	7	
RT. WINGWALL	8	

THIS SHEET IS TO BE FILLED IN BY THE PROJECT ENGINEER AND FORWARDED TO THE OFFICE OF BRIDGE AND STRUCTURAL DESIGN IN ATLANTA AFTER INSTALLATION OF ALL PILES, FOR POSTING TO THE PLANS AS A PERMANENT RECORD OF THE BRIDGE CONSTRUCTION.

PROJECT ENGINEER (PRINT)

TELEPHONE NUMBER INCLUDING AREA CODE

DATE THE SHEET WAS FILLED IN

BRIDGE NO. 1

DATE	REVISIONS	BY

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

AS BUILT FOUNDATION
C.R. 508 (JORDAN HILL ROAD) OVER
TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

DRAWING NO. 35-09
BRIDGE SHEET 9 OF 10

NO SCALE SEPTEMBER 2010

DESIGNED SLW | CHECKED ACB | REVIEWED WEJ/WMD
DRAWN RCA/SLW | DESIGN GROUP ACB | APPROVED BFR

X.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

LOCATION	NO. OF LOC.	MARK	LENGTH FT. IN.	NO. BARS REQ'D.	TYPE	A	G	B FT. IN.	C FT. IN.	D FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	J FT. IN.	K FT. IN.	N	θ
SPAN 1	1																
		400	46- 0	170	1												
		401A	20- 6	48	1												
		404	44- 9	12	1												
		407	6- 5	20	1												
		408A	9- 8	25	25	3	3	0- 7	3- 7								
		408B	7- 3	10	25	3	3	0- 7	2- 4 2/3								
		500	44- 8	155	2			42- 8	1- 0	1- 0							
		500A	7- 0	77	3			6- 0	1- 0								
		501	42-11	155	1												
		502	6- 7	282	23			0- 9	2-11	2-11							96
		503	5- 1	282	23			0- 5	2- 4	2- 4							84
		504A	6- 4	36	46			3- 9	1- 4	0- 4	0- 8	0- 8					
		504B	6-10	40	46			3- 9	1-10	0- 4	0- 8	0- 8					
		505	44- 2	2	1												
		506A	2- 2	62	24			1- 2	0- 6	0- 6	0- 4	0- 4					
		506B	6- 4	122	3			5- 1	1- 3								
		509A	3- 5	10	1												
		509B	4- 9	10	1												
		900A	14- 2	60	16	6	6	4- 0	0-10	1- 2	3- 8	3- 8					
		900B	5- 7	24	34	6		1-10	2- 1	0-10	2- 1						

LOCATION	NO. OF LOC.	MARK	LENGTH FT. IN.	NO. BARS REQ'D.	TYPE	A	G	B FT. IN.	C FT. IN.	D FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	J FT. IN.	K FT. IN.	N	θ
END BENT	1																
		410	7- 0	24	32	1	1	2- 8	1- 8	1- 8							
		411	9- 5	43	25	4	4	2- 8	1- 8								
		412	9- 5	6	25	4	4	2- 2	2- 2								
		413	1- 8	8	1												
		510	8- 2	68	1												
		511	15- 8	40	1												
		610	6- 0	6	1												
		1010	52- 4	4	6			47-10	0- 6	2- 0	2- 0					70	20
END BENT	2																
		410	7- 0	24	32	1	1	2- 8	1- 8	1- 8							
		411	9- 5	43	25	4	4	2- 8	1- 8								
		412	9- 5	6	25	4	4	2- 2	2- 2								
		413	1- 8	8	1												
		510	8- 2	68	1												
		511	15- 8	40	1												
		610	6- 0	6	1												
		1010	52- 4	4	6			47-10	0- 6	2- 0	2- 0					70	20

BRIDGE NO. 1

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

BAR SCHEDULE DETAILS
C.R. 508 (JORDAN HILL ROAD)
OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY BRSLB-2083-00(002)

DATE	REVISIONS	BY

DRAWING NO. 35-10
BRIDGE SHEET 10 OF 10

NO SCALE — AUGUST 2010

DESIGNED SLW — CHECKED ACB — REVIEWED WEI/WMD
DRAWN RCA/SLW — DESIGN GROUP ACB — APPROVED BFR

1 INCH WHEN PRINTED FULL SIZE

X.DGN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		

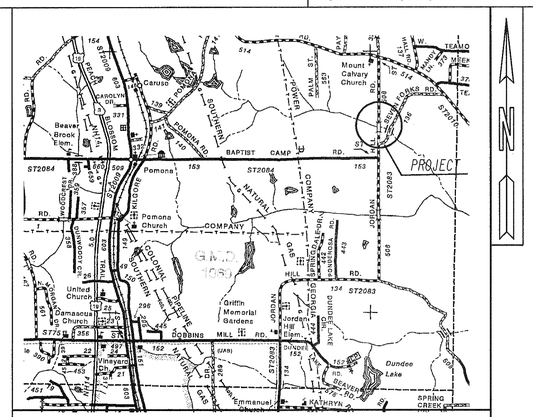
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION, SEDIMENT, & POLLUTION CONTROL PLAN

BRIDGE REPLACEMENT ON CR 508/JORDAN HILL ROAD OVER TROUBLESOME CREEK TRIBUTARY
SPALDING COUNTY

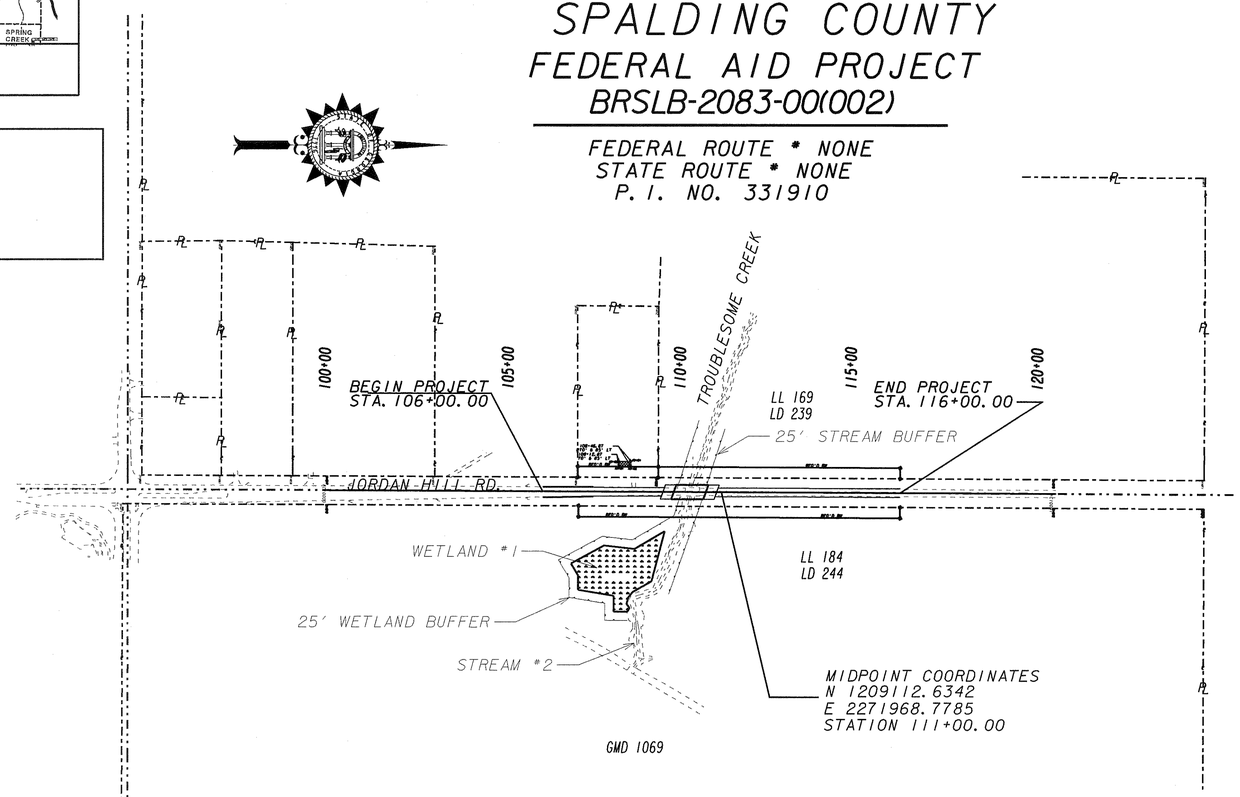
FEDERAL AID PROJECT
BRSLB-2083-00(002)

FEDERAL ROUTE * NONE
STATE ROUTE * NONE
P. I. NO. 331910



LOCATION SKETCH

MID-POINT COORDINATES
STA 111+00.00
Latitude 33°19'26.49"
Longitude 084°14'50.16"



JORDAN HILL ROAD TO BE CLOSED DURING CONSTRUCTION

24 HOUR EMERGENCY CONTACT

NAME:
PHONE NO.:
ADDRESS:

"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. GAR 100002."

"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 document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the certified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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 direct supervision.

Signature

Gerald M. Ross, P.E., GSWCC LEVEL II Certification #0000044443

PLANS COMPLETED - -

REVISIONS

REQUESTED BY	PAGE NUMBER	SIGNATURE	GSWCC LEVEL II #

1/5/2009

REVISED AUGUST 26, 2008

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, or concurrent with, land disturbing activities.

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.

PLAN ALTERATIONS

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage 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 requires
"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specification may require mulching more often than 7 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicaable contract documents, special provisions, 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 with the NOI. A copy of the construction schedule shall be maintained at the project site.

Stage I-A: The contractor shall install construction exists. Concurrent with clearing, silt fence and/or baled straw shall be installed at the limits of clearing, and temporary check dams shall be installed in the existing ditches. Silt control gates shall be placed in front of all existing side drains and cross drains. See plans for locations.

Stage I: Maintain and modify erosion control measures from stage I-A as necessary. Temporary silt fence and/or hay bales will be placed at the toe of the slopes concurrent with construction. RipRap outlet protection will be placed at the outlets of all proposed pipes that are constructed. Slope control mats will be placed on all fill slopes. Ditch lining protection will be placed as shown on plans.

Final Stage: Maintain and modify erosion control measures from stage I as necessary. Ensure all permanent erosion control measures such as rip rap, ditch lining, and slope mats are in place. Ensure that adequate grassing has been established. Leave all temporary items in place until directed otherwise by the engineer.

PETROLEUM STORAGE, SPILLS AND LEAKS

The plans provided herein do not anticipate the storage of petroleum products onsite. The contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. 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 this 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 prepeare 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 Proffessional 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 (percent)	Rating reasons (rating values)	Acres in AOI	Percent of AOI
Alp	Alluvial land, moderately wet	Slight	Alluvial land, moderately wet (95%) Roanoke (3%) Wehadkee (2%)		1.1	32.4%
CZC3	Cecil sandy clay loam, 6 to 10 percent slopes, severely eroded	Moderate	Cecil (100%)	Slope/erodibility (0.50)	0.2	5.9%
CZD3	Cecil sandy clay loam, 10 to 15 percent slopes, severely eroded	Severe	Cecil (100%)	Slope/erodibility (0.95)	1.3	38.2%
LIC2	Louisburg soils, 6 to 10 percent slopes, eroded	Moderate	Louisburg (100%)	Slope/erodibility (0.50)	0.8	23.5%
Totals for Area of Interest (AOI)					3.4	100.0%

Due to the size and scope of this project and the nature of soil series maps it is not reasonbly possible to identify the precise locations of the above referenced soils on the plans. The NRCS soil survey and soil series maps for the project area are also available online at http://websoilsurvey.ncrs.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 may consist of permanent vegetation, permanent slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channels/ditch stabilization with Turf Reinforcing Mats, rip-rap, and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants 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, or configuration, is commonly referred to as 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 the Typicial Location Details for silt fences/baled straw. Spacing for J-Hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and strorm drains shall have a minimum of three (3) J-Hooks on both sides of the structure at spacing not to exceed 30 feet. J-Hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

MAINTENANCE AND STABILIZATION MEASURES

See Special Provision 161 and 700 and other contract documents for maintenance and stabilization 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

All inspections shall be documented on the appropriate Department inspection forms. See 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 deducations as specified in the contract documents.

By agreement with Georgia EPD, the Department's Construction Project Engineer will be responsible for the seven day inspections required for new BMP installations.

NON-STORM WATER DISCHARGES

Non-storm water 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 contract documents.

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 their 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 applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

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

SEDIMENT STORAGE

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 BMPs specified in this table.

Outfall I.D.	Station	Total Drainage Area (acres)	Disturbed Area (acres)	Req'd Sediment Storage (cy.)	Total Storage Provided (cy.)	Sediment Basins		Check Dams		Silt Control Gates	
						Pond #	Total Vol.	# Devices	Total Vol.	# Devices	Total Vol.
#1	109+90.56 LT	20.33	0.35	23.45	86.00			9	77.40	1	8.60
#2	110+67.64 LT	17.76	0.61	40.87	111.80			13	111.80		
#3	109+73.75 RT	4.13	0.32	21.44	45.60			4	45.60		
#4	110+38.21 RT	9.63	0.63	42.21	122.20			13	122.20		

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary shall be a minimum of 18" high and constructed in such 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.

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

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 are not impacted by this project.

The contractor is not authorized to enter into stream buffers, except as described in the table below:

Name (name or number of feature)	Location of Buffered Streams and State Waters **			Stream Type (Warm/Cold Water) *	Buffer Impacted (Yes/No)	Buffer Variance Required?
	Alignment	Begin Sta (Lt or RT)	Ending Sta (Lt or Rt)			
Unnamed tributary	Jordan Hill	109+73.06	110+53.87	WARM	NO	NO

* Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.
** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

MONITORING GENERAL NOTES:

Representative sampling may be utilized on this project. The characteristics of the individual watersheds along the project corridor have been carefully evaluated and compared on the basis of drainage characteristics, watershed size, land disturbance and earth work. After evaluation of these items as presented in the projects drainage area maps, hydrology and hydraulic studies, construction plans and erosion sedimentation and pollution control plans, it has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site. Approved primary and alternate representative monitoring sites are identified in the table:

Monitoring site	Primary or Alternate Site	Location (Sta. and Side)	Name of Receiving water	Applicable construction stage for monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area	Disturbed Area	Warm or Cold water Stream	Appendix B NTU value (outfall Monitoring Only)	Allowable NTU Increase (For Receiving Water)	Location Description
1.	Primary	110+36.61 LT	Unnamed tributary of Troublesome Creek	All	Receiving Water	113.60 AC	2.13 AC	Warm	N/A	N/A	Centerline of tributary - upstream from bridge
2.	Primary	110+00.00 RT	Unnamed tributary of Troublesome Creek	All	Receiving Water	113.60 AC	2.13 AC	Warm	N/A	25	Centerline of tributary - downstream from bridge

(According to the EPD, additional monitoring sites may be required depending on significant changes in typical sections)

The primary site specified should be used as the initial sampling location. The alternate sampling sites may be used if additional sampling is required and/or if the primary sampling site is no longer located within the active phase of construction.

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and 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 portland cement concrete delivery 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 travel way, including shoulders, for a wash/pit area. The pit shall be large enough to store all wash-down water without overtopping the pit. 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 shall be graded to match the elevation of the surrounding areas smoothed out. 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 water pit location that includes the following: (1) the pit is located away from a storm drain, stream or river, (2) the pit is accessible to the vehicle being used for wash-down, (3) the pit has enough volume for wash-down water, and (4) make sure you have permission to use the area for wash-down. On some sites, you may not have permission or access to a location which allows for a wash-down pit. In those cases, the Contractor may have to wash-down into a wheelbarrow or other container and carry the container for transport 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".

ALTERNATIVE BMP'S

Alternative BMPs are not used on this project. Silt Gates are used on this project as additonal BMPs at pipe inlets and are not being used in place of or as a substitute for other conventional BMPs. Temporary check dams are used in ditches to provide interim stabilization and flow velocity reduction. The stability of the site is maintained with other conventional BMPs as shown on the plans. This ESPCP would be fully compliant with permit requirements if the silt gates were removed and as a result are not considered alternative BMPs when used on this project. The silt gates help to prevent pipe clogging during construction that can result from the ingestion of sediments and other large debris like rip rap, sand bags, roadway debris and other construction materials that when combined with sediments easily clog roadway drainage pipes.

RETENTION OF RECORDS

The Department will retain records in accordance with part IV.F of the General Permit GAR 100002.

GEORGIA
DEPARTMENT OF TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

ESPC GENERAL NOTES

JORDAN HILL ROAD BRIDGE

DRAWING No. 51-2

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Towaliga

Project Name: BRSLB-2083-00(002) **Address: Jordan Hill Rd over Troublesome Creek tributary**

City/County: Spalding **Date on Plans:**_____

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included Y/N		
49	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. **(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)**
46	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional. **(Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)**
47	Y	3.	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
46	Y	4.	Provide name, address and phone number of primary permittee.
56	Y	5.	Note total and disturbed acreage of the project or phase under construction.
46	Y	6.	Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
46	Y	7.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
46	Y	8.	Graphic scale and north arrow.
56	Y	9.	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
56	Y	10.	Delineation and acreage of contributing drainage basins on the project site.
57-58	Y	11.	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
57-58	Y	12.	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.
57-58	Y	13.	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
	N/A	14.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
47	Y	15.	Soil series for the project site and their delineation.
48	Y	16.	Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
	N/A	17.	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	18.	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 18 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.
56	Y	19.	Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
46	Y	20.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
47	Y	21.	The limits of disturbance for each phase of construction.
48	Y	22.	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 rationale 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. 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.
	N/A	23.	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.
57-58	Y	24.	Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
48	Y	25.	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.
47	Y	26.	Provide BMPs for the remediation of all petroleum spills and leaks.
57-58	Y	27.	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
47	Y	28.	Description of the nature of construction activity.
47,57-58	Y	29.	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.
47	Y	30.	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).
48	Y	31.	Description of the practices that will be used to reduce the pollutants in storm water discharges.
47	Y	32.	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.
46	Y	33.	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.
46	Y	34.	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 14 of the permit.
46	Y	35.	Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d. of the state general permit.
		36.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
48	Y	37.	Indication 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.
48	Y	38.	Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.
46	Y	39.	Indication that 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.
47	Y	40.	Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
47	Y	41.	Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed.
47-48	Y	42.	Provide complete requirements of inspections and record keeping by the primary permittee.
48	Y	43.	Provide complete requirements of sampling frequency and reporting of sampling results.
48	Y	44.	Provide complete details for retention of records as per Part IV.F. of the permit.
48	Y	45.	Description of analytical methods to be used to collect and analyze the samples from each location.
	N/A	46.	Appendix B rationale for outfall sampling points where applicable.
47	Y	47.	Cleary note statement in bold letters- **"The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities."**
47	Y	48.	Cleary note maintenance statement in bold letters - **"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."**
47	Y	49.	Clearly note the statement in bold letters - **"Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."**
50-55	Y	50.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
47	Y	51.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Effective January 1, 2009

*Located in the approved hydraulic study provided by the Office of Bridge Design.

GEORGIA
DEPARTMENT OF TRANSPORTATION

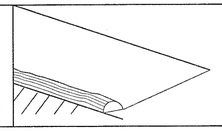
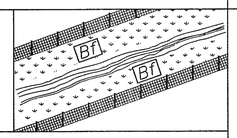
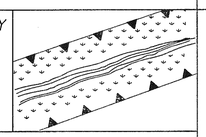
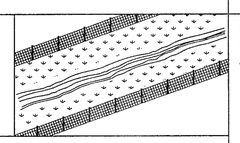
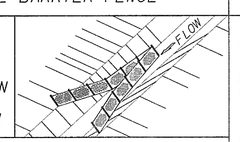
REVISION DATES

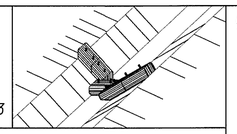
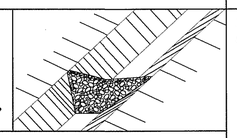
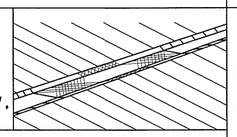
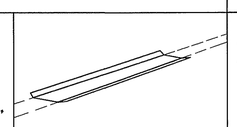
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN
ESPC GENERAL NOTES
JORDAN HILL ROAD BRIDGE

DRAWING No. 51-3

3/1/2007 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-2083-001(002)		

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Be	EARTH BERM SECTION 161	 LINE CODE 	THIS IS A TEMPORARY EARTH BERM CONSTRUCTED AT THE EDGE OF THE EMBANKMENT DURING THE GRADING OPERATION. THIS BERM WILL PREVENT SLOPE EROSION AND DIRECT RUNOFF TO A DOWN DRAIN "Dnl" OR CATCHMENT AREA. THIS WILL BE USED ON ALL GRADING PROJECTS. THIS ITEM IS TO BE USED ALONG THE TOP OF HIGH FILL SECTIONS TO DIRECT RUNOFF INTO THE TEMPORARY SLOPE DRAINS.
	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.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Cd-Hb	HAYBALE CHECK DAM SECTION 163	 LINE CODE Cd-Hb	HAYBALE CHECK DAMS ARE RECOMMENDED FOR DRAINAGE AREA LESS THAN ONE ACRE.
	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.
	Ch-Br	BITUMINOUS TREATED ROVING SECTION 161, 715	 LINE CODE Ch-Br	THIS ITEM CONSISTS OF PLACING ONE OR MORE LAYERS OF BITUMINOUS TREATED ROVING ON A PLANTED AREA, IN CHANNELS TO STABILIZE VEGETATION AND PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE PLACED TO PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-C	CHANNEL CONCRETE SECTION 161, 441	 LINE CODE 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

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
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

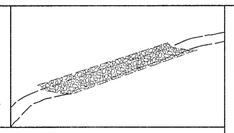
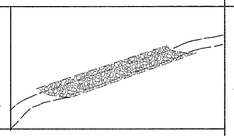
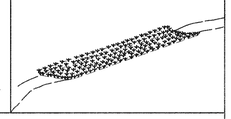
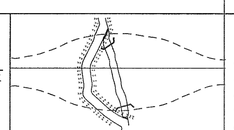
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 1 OF 6

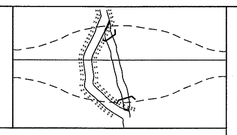
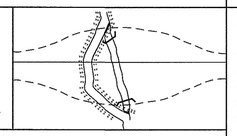
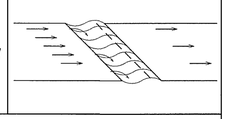
NO SCALE — JANUARY 2007

NUMBER EC-L1 — DRAWING No. 52-1

10/12/2011 5:52:24 PM \\GDOT-DSN\GOPLOT\GCF\D3_Klp8000-Lcf gaee H:\WORKAMG\SPALDING 331910\Dgn\DGN\331910ECL01.prf D3-Thomaston

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-2083-00(002)		

	CODE	PRACTICE STD :SPC'S :SECTION	DETAIL	DESCRIPTION
	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 Sdl-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 Sdl-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.
	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.

	CODE	PRACTICE STD :SPC'S :SECTION	DETAIL	DESCRIPTION
	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		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 CONSTRUCTION DETAIL SECTION 205 LINE CODE Di		AN EARTH CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE, CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE AND TO INTERCEPT RUNOFF AND DIRECT THE RUNOFF TO A STABLE OUTLET. SEE CHAPTHER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.
	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'.

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
GLO	REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

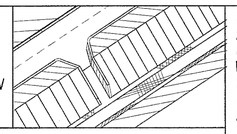
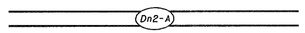
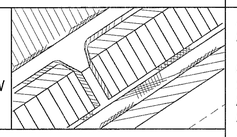
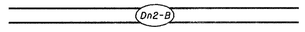
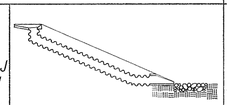
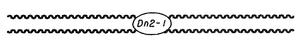
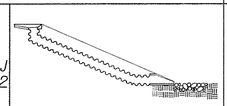
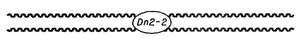
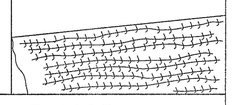
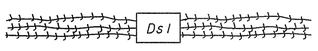
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

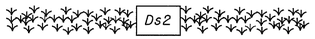
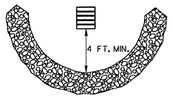
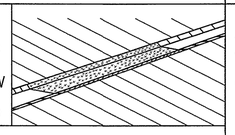
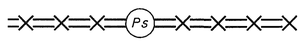
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 2 OF 6

NO SCALE — JANUARY 2007

NUMBER EC-L2 — DRAWING No. 52-2

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-2083-00(002)		

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441	 LINE CODE 	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 	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 TP1, D-26 TP1 SECTION 576, 577.	 LINE CODE 	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).
	Dn2-2	PERMANENT DOWN DRAIN STRUCTURE GA. STD. 9017J TP2, D-26 TP2 SECTION 576, 577.	 LINE CODE 	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).
	Ds1	MULCH SECTION 163	 LINE CODE 	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.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Ds2	TEMPORARY GRASSING SECTION 163	LINE CODE 	THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS.
	Fr	FILTER RING CONSTRUCTION DETAIL	 LINE CODE	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.
	Mb	EROSION CONTROL MATS CONSTRUCTION DETAIL SECTION 716	PATTERN	ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50' OF ALL CROSS DRAINS AND CULVERTS.
	Ps	PERMANENT SOIL REINFORCING MAT CONSTRUCTION DETAIL SECTION 710	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG TERM PROTECTION. (THIS IS CALLED "Wt" IN MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)

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
GLO	DELETED Fa, REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

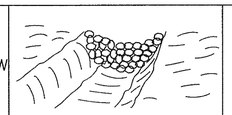
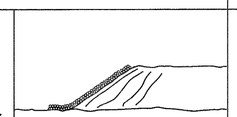
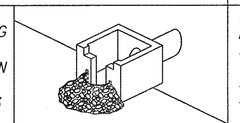
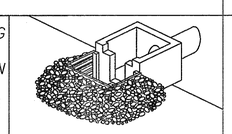
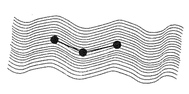
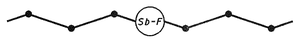
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

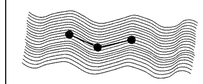
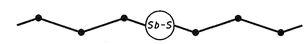
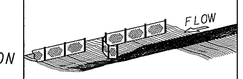
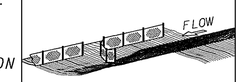
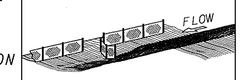
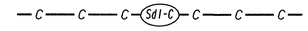
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 3 OF 6

NO SCALE — JANUARY 2007

NUMBER EC-L3 — DRAWING No. 52-3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-2083-00(002)		

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Rd	ROCK FILTER DAM CONSTRUCTION DETAIL SECTION 163, 603.	 LINE CODE 	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.
	Rp	RIPRAP SECTION 603	 PATTERN 	RIP RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND END ROLLS. RIP RAP, TYPE I 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 	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 DISTRUBED 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 	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 DISTRUBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
	Sb-F	SILT RETENTION BARRIER FLOATING SECTION 170	 FLOATING LINE CODE 	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 	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 	USED ALONG THE TOE OF FILLS OVER 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 	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 	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 SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
GLO	REV. Sb-F, Sb-S, Sdl-A, Sbl-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

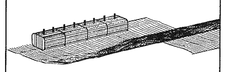
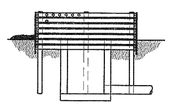
SHEET 4 OF 6

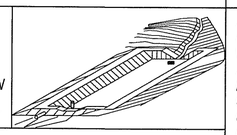
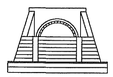
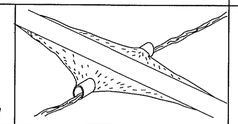
NO SCALE — JANUARY 2007

NUMBER EC-L4

DRAWING No. 52-4

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-2083-00(002)		

	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) 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		
	Sg-1 Sg-2 Sg-3	SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW	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. Sg-1=TYPE 1: USED ON BOX CULVERTS Sg-2=TYPE 2: USED ON STRAIGHT HEADWALLS Sg-3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
		LINE CODE Sg-1 Sg-2 Sg-3		
	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 FOR CONTRACTOR'S USE ONLY
		LINE CODE Sr		

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
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

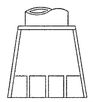
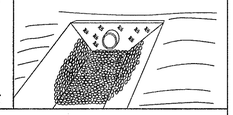
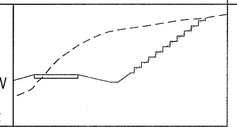
JANUARY 2007

NUMBER EC-L5

DRAWING No. 52-5

10/12/2011 4:51:50 PM \\GDOT-DSN\GOPLOT\QCF\D3-Kip8000-1.qcf gaee H:\WORKAMG\SPALDING_331910\Dgn\DGN\331910ECL05.prf D3-Thomaston

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRSLB-2083-00(002)		

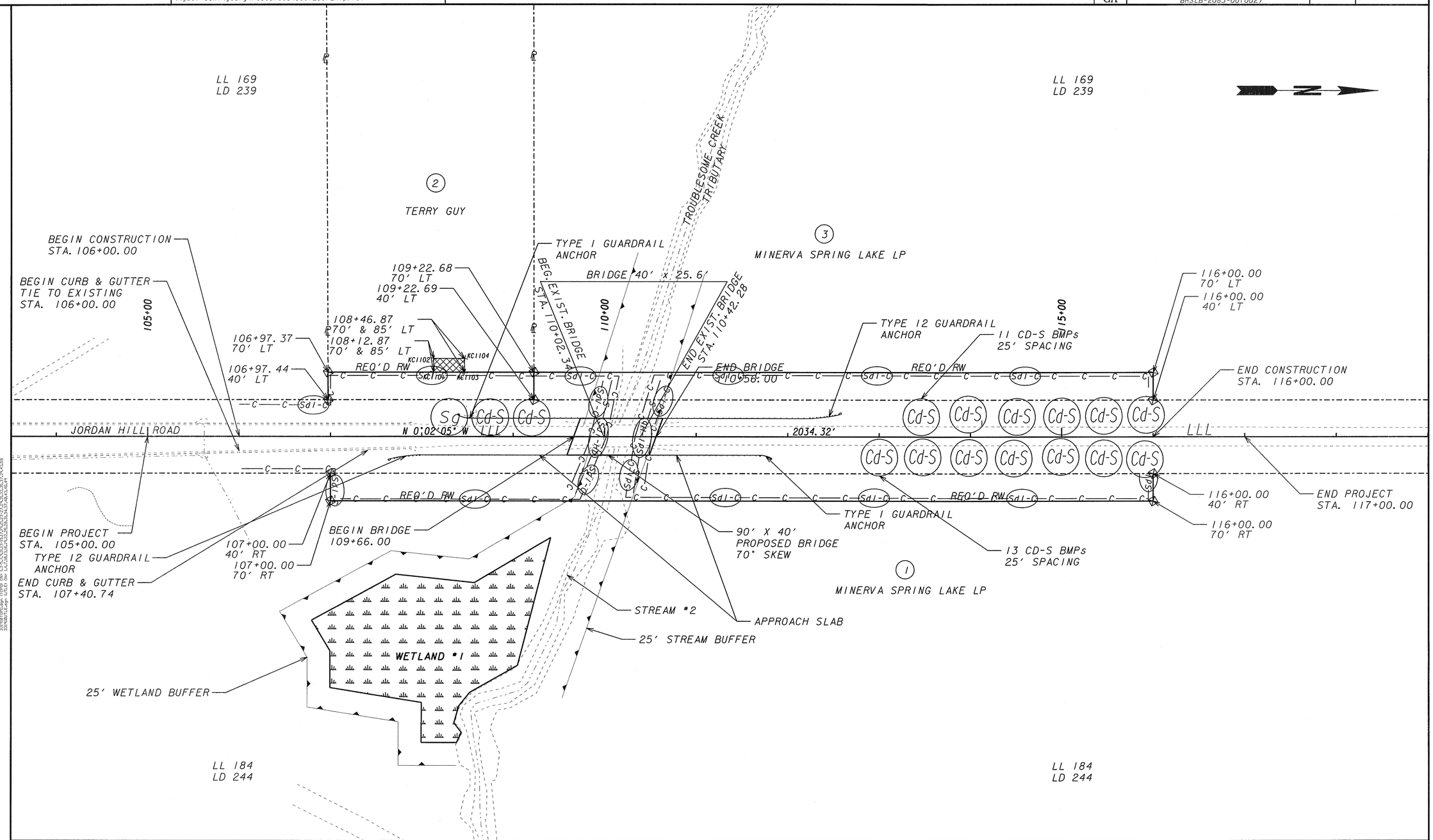
	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 LINE CODE St	A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO PREVENT EROSION AND TO SLOW WATER. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND 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 1 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.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION

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".

		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
		REVISION	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 6 OF 6 NO SCALE — NOV., 2007
		BY	NUMBER EC-L6 — DRAWING No. 52-6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



PROPERTY AND EXISTING R/W LINE	B
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	G 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

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

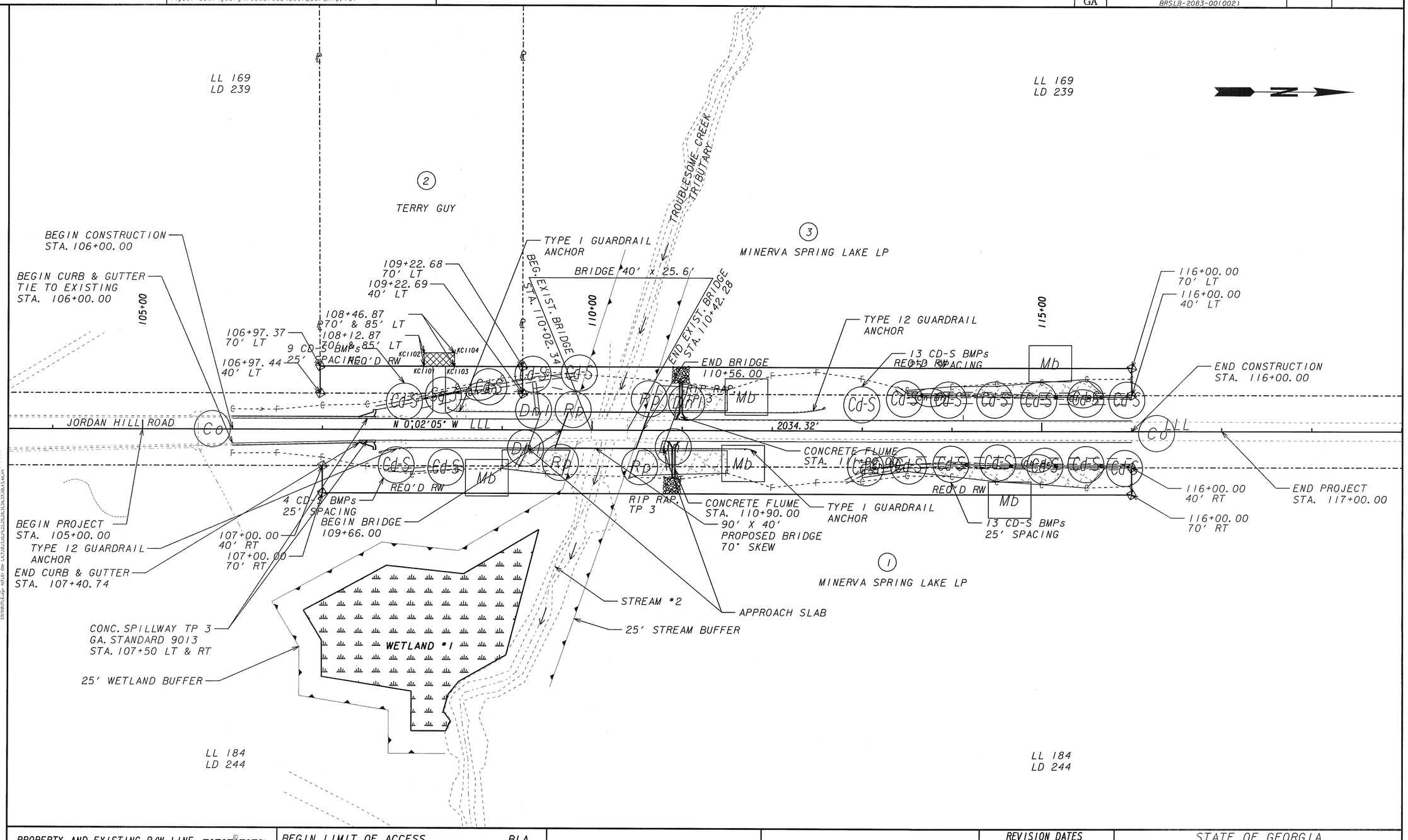
BMP LOCATION DETAILS

JORDAN HILL ROAD BRIDGE

DRAWING No. 54-01

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
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	

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

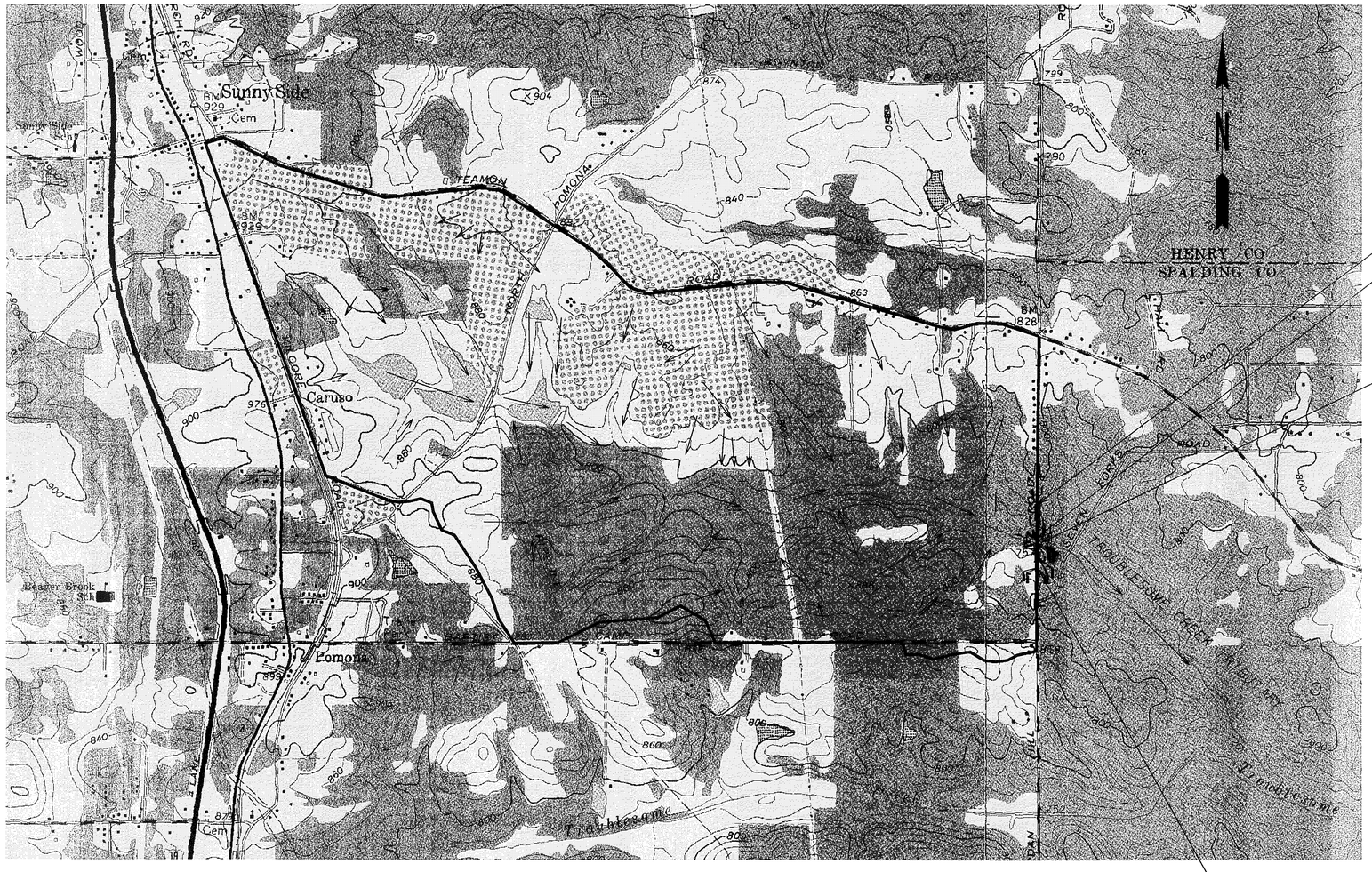
BMP LOCATION DETAILS

JORDAN HILL ROAD BRIDGE

DRAWING No. 54-02

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRSLB-2083-00(002)		



END CONSTRUCTION
STA. 116+00

SAMPLE MONITORING LOCATION 1
STA. 110+36.61 LT/65' OFFSET

SAMPLE MONITORING LOCATION 2
STA. 110+00.00 RT/65' OFFSET

BEGIN CONSTRUCTION
STA. 106+00

GEORGIA
DEPARTMENT OF TRANSPORTATION

SCALE IN FEET
0 1000 2000 4000

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT THREE DESIGN

WATERSHED MAP
SITE MONITORING PLAN
JORDAN HILL ROAD BRIDGE

DRAWING No. 55-01

1/5/2009 GPLN