06-DEC-2010 10:14 JParks	006043CV01 8825Full.pen	Y:\Roadways\07400004\006043\DGN\006043CV01.dgn GRWCOV	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	1	668

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY

FEDERAL AID PROJECT
CSNHS-0006-00(043)

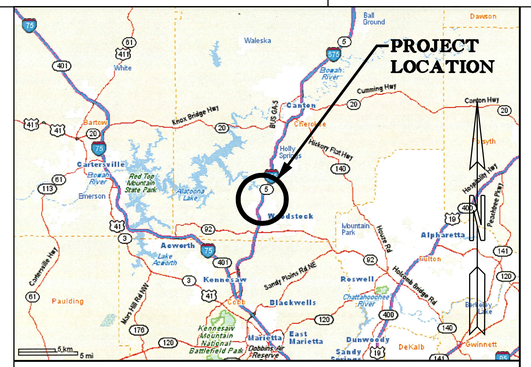
FEDERAL ROUTE * I-575

STATE ROUTE * 5

P.I.NO. 0006043

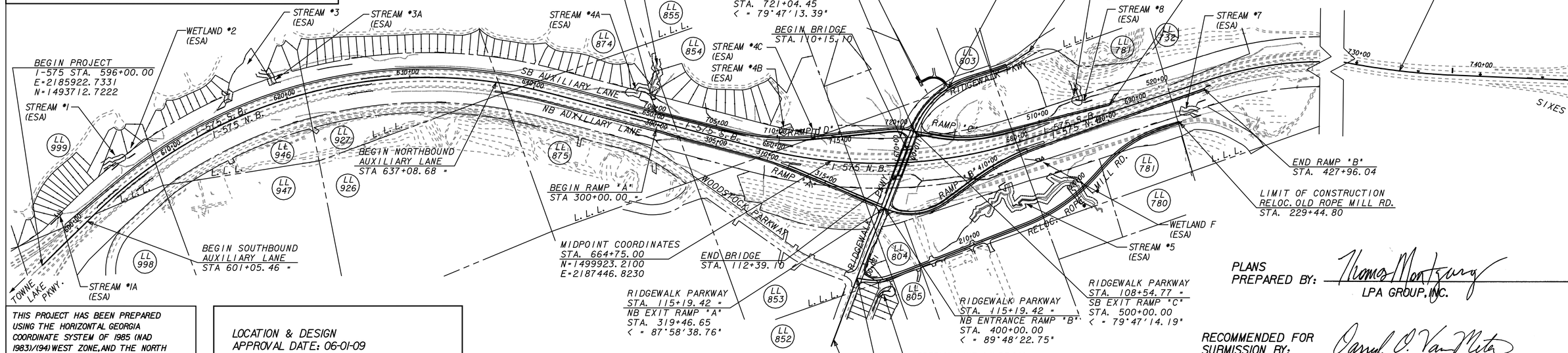
RELEASED FOR CONSTRUCTION
12/02/10

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.



LOCATION SKETCH

TRAFFIC DESIGN DATA:	I-575	RIDGEWALK PKWY.
TRAFFIC A.D.T.(V.P.D.)	88120 (2012)	8320 (2012)
TRAFFIC A.D.T.(V.P.D.)	160500 (2032)	15950 (2032)
TRAFFIC D.H.V.(V.P.H.)	13620 (2032)	1590 (2032)
DIRECTIONAL DIST.	51%	53%
% TRUCKS	6	3
24 HR.TRUCKS %	7	5
SPEED DESIGN (MPH)	75	45



THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1985 (NAD 1983)/(94) WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

MID-POINT COORDINATES

STATION= 664+75.00

N 1499923.2100

E 2187446.8230

LOCATION & DESIGN APPROVAL DATE: 06-01-09

FUNCTIONAL CLASS: PRINCIPAL ARTERIAL FREEWAY

THIS PROJECT IS 100% IN CHEROKEE COUNTY AND IS 100% IN CONG.DIST.NO. 6.

PROJECT DESIGNATION: FULL OVERSIGHT

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

COUNTY No. 057 PROJECT No. CSNHS-0006-00(043)	CHEROKEE COUNTY
LENGTH OF PROJECT	MILES
NET LENGTH OF ROADWAY	3.123
NET LENGTH OF BRIDGES	0.042
NET LENGTH OF PROJECT	3.165
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	3.165

SCALE IN FEET
0 400 800 1600

PLANS PREPARED BY: Thomas Montgomery
LPA GROUP, INC.

RECOMMENDED FOR SUBMISSION BY: Daryl O. Van Meter
INNOVATIVE PROGRAM DELIVERY

GEORGIA REGISTERED No. 25361 PROFESSIONAL 11/30/10 ENGINEER THOMAS D. MONTGOMERY

11/30/2010	
DATE	CHIEF ENGINEER

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.

RELEASED FOR CONSTRUCTION 12/02/10

SHEET NO.	DWG NO.	DESCRIPTION
		CONSTRUCTION PLANS
1	01-01	COVER SHEET
2-3	02-01 TO 02-02	INDEX OF DRAWINGS
4	03-01	REVISION SUMMARY
5-9	04-01 TO 04-05	GENERAL NOTES
10-23	05-01 TO 05-14	TYPICAL SECTIONS
24-25	10-01 TO 10-02	TRAFFIC DIAGRAMS
26-32	11-01 TO 11-07	CONSTRUCTION LAYOUT
33-60	13-01 TO 13-28	MAINLINE ROADWAY PLAN
61-72	14-01 TO 14-12	CROSSROAD PLAN
73-98	16-01 TO 16-26	CROSSROAD PROFILE
99-101	17-01 TO 17-03	DRIVEWAYS PROFILES
102-182	19-01 TO 19-81	CONSTRUCTION STAGING PLANS AND CROSS SECTIONS
183-184	21-01 TO 21-02	DRAINAGE AREA MAP
185-191	22-01 TO 22-07	DRAINAGE PROFILES
192-311	23-01 TO 23-120	EARTHWORK CROSS SECTIONS
312-354	24-0A TO 24-43	UTLITY PLANS
355-402	26-01 TO 26-47	SIGNING AND MARKING PLANS & DETAILS
403-406	27-01 TO 27-04	SIGNAL PLANS AND DETAILS
407-408	28-01 TO 28-02	ATMS PLANS AND DETAILS
409-419	31-01 TO 31-11	RETAINING WALL ENVELOPES AND DETAILS (NOT INCLUDED)
420-429	33-01 TO 33-10	SOUND BARRIER ENVELOPES AND DETAILS (NOT INCLUDED)
430-442	35-01 TO 35-13	BRIDGE PLANS (NOT INCLUDED)
		SPECIAL DESIGN CONSTRUCTION DETAILS
		REV. DATE
443	M-2	SUBBASES FOR APPROACH SLABS 3-06
444	MODIFIED 4948	TYPE 7-RS, 7-TS, 7-WS MODIFIED SIDE BARRIER 1-99
		GEORGIA CONSTRUCTION DETAILS
		REV. DATE
445	A-1	DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS 4-02
446	A-2	CONCRETE VALLEY GUTTER AT STREET INTERSECTION 6 2-03
447	A-3	SPECIAL DETAILS - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS 6-09
448	A-4	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS 6-09
449	D-7	BERM DITCHES, SIDE DITCHES, SURFACE DETAILS 7-80
450	D-9	CONCRETE FLUMES TYPES "A" AND "B" 10-83
451	D-10	4" CONCRETE DITCH PAVING DETAILS & QUANTITES 1-88
452	D-15	TYPICAL SKEWED CULVERT ENDS 12-83
453	D-34	PIPE/BOX CULVERT COLLAR CONNECTION DETAIL 3-88
454	F-1	WOVEN WIRE FENCE 3-88
455	F-2	GATE DETAILS FOR CHAIN LINK & WOVEN WIRE FENCE 1-88

SHEET NO.	DWG NO.	DESCRIPTION
		GEORGIA CONSTRUCTION DETAILS (CONT.)
		REV. DATE
456	S-4B	CONSTRUCTION DETAILS SHOULDER PAVING AND SURFACING UNDER GUARDRAIL (INTERSTATES AND FREEWAYS) 9-02
457	S-7	SERRATED SLOPE DETAIL/BENCHING DETAIL 6-09
458	S-8	MILLED RUMBLE STRIPS AND BICYCLE ACCOMODATION DETAILS 3-01
459	S-9	CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE 5-99
460	T-1	SIGN PLATES 1-00
461	T-2	DETAILS FOR TYPICAL FRAMING 3-00
462	T-3A	TYPE 7, 8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL 7-02
463	T-3B	DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT) 7-02
464	T-4	DETAILS OF CARDINAL DIRECTION SIGNS 1-00
465	T-5A	DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2) 1-03
466	T-5B	DETAILS OF REGULATORY SIGNS (SHEET 2 OF 2) 1-00
467	T-5C	DETAILS OF WARNING SIGNS 1-00
468	T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS ROADWAY 1-00
469	T-11B	DETAILS OF PAVEMENT MARKING PLACEMENT ON LIMITED ACCESS ROADWAY 1-00
470	T-12A	DETAILS OF PAVEMENT MARKING ARROW LOCATION 1-00
471	T-12B	DETAILS OF PAVEMENT MARKING ARROWS 4-00
472	T-13A	DETAILS OF PAVEMENT MARKING WORDS (SHEET 1 OF 2) 1-00
473	T-13B	DETAILS OF PAVEMENT MARKING WORDS (SHEET 2 OF 2) 1-00
474	T-13C	DETAILS OF PAVEMENT MARKING WORDS PLACEMENT 1-00
475	T-14	DETAILS OF PAVEMENT MARKING HATCHING 11-08
476	T-15A	DETAILS OF RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS ROADWAY 11-04
477	T-15B	DETAILS OF RAISED PAVEMENT MARKER LOCATION LIMITED ACCESS ROADWAY 1-00
478	T-15C	DETAILS OF RAISED PAVEMENT MARKERS 1-00
479	T-22B	DETAILS FOR BRIDGE DELINEATION ON DIVIDED HIGHWAY TWO WAY OPERATION 9-06
480	T-23	DETAILS OF EDGE LINE RUMBLE STRIPS 1-05
481	TS-01	INDUCTIVE-LOOP DETECTOR INSTALLATION 7-04
482	TS-02	PULLBOX ASSEMBLY AND INSTALLATION 4-10
483	TS-03	CABINET BASE DETAIL 4-10
484	TS-03A	PEDESTRIAN FACILITIES INSTALLATION DETAILS 4-10
485	TS-04	DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES 4-10
486	TS-05	DETAILS OF CONCRETE POLES 4-10
487	TS-06	DETAILS OF STRAIN POLE AND MAST ARM FOUNDATIONS 4-10
488	TS-07	GROUNDING DETAILS FOR TRAFFIC SIGNAL SUPPORT STRUCTURES I 4-10
489	TS-08	UTILITY CLEARANCE DETAIL 4-10
490	TS-09	STANDARD GUYING DETAILS 4-10
		SOUND BARRIER CONSTRUCTION DETAILS
		REV. DATE
491	N-1A	FOUNDATION AND POST DETAILS 1-08
492	N-1B	FOUNDATION AND POST DETAILS 8-08
493	N-2	DETAILS AT CONCRETE SIDE BARRIER 5-04
494	N-4	SOUND BARRIER, TYPE B, INTERLOCKING STEEL PANELS 6-04

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

INDEX

RIDGEWALK PARKWAY @ I-575

DRAWING No. 02 -001

RELEASED FOR CONSTRUCTION 12/02/10

SHEET NO.	DWG NO.	DESCRIPTION	
		GEORGIA CONSTRUCTION STANDARDS	
			REV. DATE
495	1019A	DROP INLETS	8-99
496	1030D	CONCRETE AND METAL PIPE CULVERTS, SHEET 1 OF 3	9-01
497	1030D	CONCRETE AND METAL PIPE CULVERTS, SHEET 2 OF 3	9-01
498	1030D	CONCRETE AND METAL PIPE CULVERTS, SHEET 3 OF 3	9-01
499	1031	SAND CEMENT BAG DITCH CHECKS	7-97
500	1033D	CATCH BASINS (FOR USE WITH 6" OR 8" HT. CURB AND GUTTER)	8-82
501	1034D	CATCH BASINS (FOR USE WITH 6" OR 8" CURB AND GUTTER IN SAGS OR LOW POINTS)	8-82
502	1120	FLARED END SECTIONS FOR PIPES	6-06
503	1125	INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)	10-99
504	1401	PAVEMENT PATCHING DETAILS (STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT)	8-99
505	3054	END POST & END POST GUARDRAIL ATTACHMENT DETAIL	9-02
506	3626	ONE PIPE ALUMINUM HANDRAILING FOR BRIDGES	10-85
507	3901	BAR BENDING DETAILS	8-69
508	4000W	GUARDRAIL WARRANT GUIDES	9-07
509	4010	"W" BEAM GUARDRAIL	5-99
510	4011A	POSTS & OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL (REPLACES STANDARDS 4011 & 4271)- ADDED COMPOSITE BLOCK	12-01
511	4012-C	GUARDRAIL CONNECTION AT BRIDGE END OR AT CONCRETE BARRIER END	3-05
512	4012D	GUARDRAIL ANCHORAGE TYPE 1	7-02
513	4022A	LOCATION OF GUARDRAIL IN MEDIANS - LOCATION OF GUARDRAIL AT TURNOUTS	3-03
514	4040	GUARDRAIL ANCHORAGE TP 12	4-06
515	4040A	GUARDRAIL ANCHORAGE WITHOUT FLARE (ALTERNATE A)	5-97
516	4040B	GUARDRAIL ANCHORAGE WITHOUT FLARE (ALTERNATE B)	5-97
517	4051	GUARDRAIL LOCATIONS DETAILS FOR MULTI-LANE DIVIDED HIGHWAYS	10-97
518	4052	GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS	10-97
519	4055	GUARDRAIL LOCATION AT FIXED OBJECTS IN THE MEDIAN	7-98
520	4270	"T" BEAM GUARDRAIL	11-99
521	4280	GUARDRAIL LOCATION ON ROADS WITH CURB AND GUTTER OR CURBS	10-99
522	4360	REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE STRIPING	4-06
523	4948A	CONCRETE SIDE BARRIER TYPES 7-C, 7-R,7-T AND 7-W (REPLACES STANDARD 4948)	12-99
524	4948B	CONCRETE SIDE BARRIER TYPES 2, 2-A, 2-B, AND 2-C (REPLACES STANDARD 4948)	1-07
525	4960	CONCRETE BARRIER - TEMPORARY(END TREATMENT OPTIONS)	5-07
526	4961	DETAILS OF PRECAST TEMPORARY BARRIER	9-06
527	5001M	DROP INLET TYPES M-1 AND M-2 ADJACENT TO CONCRETE BARRIER (SHEET 1 OF 2)	6-10
528	5001MP	DROP INLET TYPES M-1 AND M-2 ADJACENT TO CONCRETE BARRIER (SHEET 2 OF 2)	6-10
529	5046H	JOINT DETAILS FOR PLAIN PORTLAND CEMENT CONCRETE PAVING	1-07
530	9003	FEDERAL AID AND STATE PROJECT MARKERS; RIGHT OF WAY MARKERS; COUNTY LINE MARKER	4-06
531	9013	CONCRETE SPILLWAYS (TYPICAL USE: ALONG ROADWAY AT END OF CURB)	2-81
532	9017R	REINFORCED CONCRETE APPROACH SLAB WITH ASPHALT INLAY	9-02
533	9029B	PERFORATED UNDERDRAIN	8-83
534	9030C	DELINEATORS & OBJECT MARKERS & ALTERNATE POST	4-06
535	9031L	RETAINNING WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG (SHEET 1)	6-98
536	9031L	DETAILS OF: CATCH BASINS MODIFIED FOR DOUBLE GRATES - CONCRETE CATCH BASINS OF DROP INLET, CONNECTION TO CONCRETE BOX CULVERT - CONCRETE, COVER FOR DROP INLET - CONCRETE STEPS - CONCRETE, SPRING BOX - RETAINING WALL TYPICAL SECTIONS, RAISING HEADWALL - TYPICAL PIPE PLUG (SHEET 2)	6-98
537	9031S	MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON	4-96

SHEET NO.	DWG NO.	DESCRIPTION	
		GEORGIA CONSTRUCTION STANDARDS (CONT.)	
			REV. DATE
538	9031U	JUNCTION BOXES (PRECAST OR BUILT-IN-PLACE) PIPE COLLARS, PIPE ELBOW & PIPE CURVED ALIGNMENT	7-85
539	9033	MILEPOSTS	3-06
540	9037	TYPICAL FILL DETAIL AT END OF BRIDGE	9-99
541	9041	ASSEMBLY DETAILS ON ALUMINUM BOLTED EXTRUDED PANELS FOR SPECIAL ROADSIDE SIGNS	8-93
542	9042	ALUMINUM BOLTED EXTRUDED PANELS ASSEMBLY COMPONENTS DETAILS FOR SPECIAL ROADSIDE SIGNS	9-66
543	9054A	ERECTION AND FOUNDATION DETAILS FOR SPECIAL ROADSIDE SIGNS-BREAKAWAY POST	10-81
544	9054B	ERECTION AND FOUNDATION DETAILS FOR SPECIAL ROADSIDE SIGN-BREAKAWAY POST	3-87
545	9054C	ERECTION AND FOUNDATION DETAILS FOR SPECIAL ROADSIDE SIGNS-BREAKAWAY POST	10-81
546	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS	3-06
547	9102	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY	3-06
548	9106	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY	9-07
		EROSION CONTROL PLANS	
549	50-01	EROSION CONTROL COVER SHEET	
550-555	51-01 TO 51-06	EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES	
556	52-01	EC-L1 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 1 OF 6)	
557	52-02	EC-L2 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 6)	
558	52-03	EC-L3 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 6)	
559	52-04	EC-L4 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 6)	
560	52-05	EC-L5 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 6)	
561	52-06	EC-L6 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 6)	
562-563	53-01 TO 53-02	DRAINAGE AREA MAP	
564-653	54-01 TO 54-90	EROSION CONTROL PLANS	
654	55-01	EROSION CONTROL WATERSHED MAP & SITE MONITORING LOCATION	
655	56-01	EROSION CONTROL CONSTRUCTION DETAILS	
		GEORGIA EROSION CONTROL CONSTRUCTION DETAILS	
656	D-19	TEMPORARY PIPE SLOPE DRAIN WITH DRAIN INLET	2-00
657	D-20	SILT CONTROL GATES FOR STRUCTURES TYPE - 1,2,3: INLET SEDIMENT TRAP	3-05
658	D-21	INLET BAFFLE, PRIMARY SPILLWAY TYPE 1	1-06
659	D-22	SEDIMENT BASIN TYPE-1 FOR USE OUTSIDE NATURAL CHANNELS	10-01
660	D-24A	TEMPORARY SILT FENCE, BALED STRAW EROSION CHECK, BRUSH BARRIER DETAILS	9-01
661	D-24B	TYPICAL LOCATION DETAILS FOR SILT FENCES/BALED STRAW	10-02
662	D-25	EROSION CONTROL CHECK DAMS	5-93
663	D-35	PERMANENT SOIL REINFORCING MAT	8-88
664	D-38	EXAMPLES OF DIVERSION CHANNELS	6-93
665	D-41	CONSTRUCTION EXIT	2-01
666	D-42	INLET SEDIMENT TRAPS	5-08
667	D-44	RETROFITTING STRUCTURE FOR TEMPORARY SEDIMENT FILTER-PERFORATED HALF-ROUND PIPE WITH STONE FILTER	5-08
668	D-47	TYPICAL DIVERSION ACCESS ROAD	5-08
668		TOTAL SHEETS	

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

INDEX

RIDGEWALK PARKWAY @ I-575

DRAWING No. 02 -002

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	4	668

RELEASED FOR CONSTRUCTION 12/02/10

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

REVISION SUMMARY

DRAWING No.
03-001

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

PROJECT SPECIFIC NOTES

1. PRIOR TO CLEARING AND CONSTRUCTION ACTIVITIES COMMENCING, THE CONTRACTOR SHALL PLACE THE ORANGE CONSTRUCTION/SAFETY BARRIER FENCE IN AREAS NOTED IN THE PLANS AS ENVIRONMENTALLY SENSITIVE AREAS (ESA) TO ENSURE THAT THE ESA IS NOT ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION.

2. THIS PROJECT REQUIRES A NOTICE OF INTENT (NOI).

3. THE CONTRACTOR SHALL FIND, AT NO ADDITIONAL COST TO THE DEPARTMENT, ENVIRONMENTALLY APPROVED BORROW AND DISPOSAL SITES TO DISPOSE OF THE EXISTING BRIDGE AND CONSTRUCTION DEBRIS.

4. ALL WHEELCHAIR RAMPS/CURB RADII SHALL BE CONCRETE 8 INCHES IN DEPTH.

ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PAVED BACK TO THE R/W, BEYOND THE R/W, ALL RECONSTRUCTED DRIVES SHALL BE REPLACED IN KIND, I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND ASPHALT FOR GRAVEL OR EARTH, EXCEPT AS NOTED ON THE PLANS. THE DEPTH OF MATERIALS SHALL BE AS FOLLOWS:

ASPHALT DRIVEWAYS:	RESIDENTIAL:	12.5 MM SUPERPAVE, 165 LBS/SY G.A.B., 6 IN. DEPTH
	COMMERCIAL:	12.5 MM SUPERPAVE, 165 LBS/SY 19 MM SUPERPAVE, 220 LBS/SY G.A.B., 6 IN. DEPTH
CONCRETE DRIVEWAYS:	RESIDENTIAL: COMMERCIAL:	6" CONCRETE VALLEY GUTTER 8" CONCRETE VALLEY GUTTER
GRAVEL OR EARTH DRIVEWAYS:	ALL TYPES:	12.5 MM SUPERPAVE, 165 LBS/SY G.A.B., 6 IN. DEPTH

1. CITY OF WOODSTOCK (COW)- WATER
   CONTACT:
   TELEPHONE:
   NOTE: ALL WATER IS CITY OF WOODSTOCK UNLESS OTHERWISE NOTED.

2. CHEROKEE COUNTY - WATER
   CONTACT:
   TELEPHONE:
   NOTE: ALL CHEROKEE COUNTY WATER IS LABELED THROUGHOUT. UTILITY OWNER HAS NO RECORDS, ALL FACILITIES WERE VERBALLY DESCRIBED.

3. CITY OF WOODSTOCK (COW)- SEWER
   CONTACT:
   TELEPHONE:
   NOTE: UTILITY OWNER WAS CONTACTED AND VERIFIED THAT THERE ARE NO FACILITIES WITHIN THE VICINITY OF THE PROJECT.

4. CHEROKEE COUNTY - SEWER
   CONTACT:
   TELEPHONE:
   NOTE: ALL SEWER FACILITIES ARE CHEROKEE COUNTY UNLESS OTHERWISE NOTED.

5. AT&T- TELEPHONE
   CONTACT:
   TELEPHONE:
   NOTE: ALL TELEPHONE IS AT&T UNLESS OTHERWISE NOTED.

6. COMCAST COMMUNICATIONS - CABLE TELEVISION (CATV)
   CONTACT:
   TELEPHONE:
   NOTE: ALL CATV IS COMCAST COMMUNICATIONS UNLESS OTHERWISE NOTED.

7. COBB EMC - ELECTRIC
   CONTACT:
   TELEPHONE:
   NOTE: UTILITY OWNER WAS CONTACTED AND VERIFIED THAT THERE ARE NO FACILITIES WITHIN THE VICINITY OF THE PROJECT.

8. GEORGIA POWER COMPANY (GAPC) - ELECTRIC DISTRIBUTION
   CONTACT:
   TELEPHONE:
   NOTE: ALL ELECTRIC DISTRIBUTION IS GEORGIA POWER COMPANY UNLESS OTHERWISE NOTED.

9. CITY OF WOODSTOCK (COW)- TRAFFIC CONTROL
   CONTACT:
   TELEPHONE:
   NOTE: ALL TRAFFIC CONTROL FACILITIES ARE CITY OF WOODSTOCK (COW) UNLESS OTHERWISE NOTED.

10. ATLANTA GAS LIGHT COMPANY (AGL) - GAS
    CONTACT:
    TELEPHONE:
    NOTE: ALL GAS FACILITIES ARE AGL UNLESS OTHERWISE NOTED.

11. CHARTER COMMUNICATIONS - CABLE TELEVISION (CATV)
    CONTACT:
    TELEPHONE:

GEORGIA 811 Utilities Protection Center, Inc.
Know what's **below.** **Call** before you dig.

PROJECT NO.: CSNHS-0006-00(043) | COUNTY: CHEROKEE | P.I. NO.: 0006043

Pipe Culvert Material Alternates
For Piedmont/Blue Ridge Region

TYPE OF PIPE INSTALLATION				CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRU-GATED 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 ASTM F-949
LONGITUDINAL INTERSTATE AND TRAVEL BEARING				X							
LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING				X	X		X		X	X	X
STORM DRAIN CROSS DRAIN	GRADE ≤10%	ADT < 250		X	X		X		X	X	X
		250 < ADT < 1500		X	X*		X		X	X	X
		1500 < ADT < 15,000		X					X	X	X
		ADT > 15,000		X							
	GRADE >10%	ADT < 250			X		X		X	X	X
		ADT >250					X		X	X	X
SIDE DRAIN				X	X		X		X	X	X
PERMANENT SLOPE DRAIN					X	X	X		X	X	X
PERFORATED UNDERDRAIN					X	X	X	X	X		X

* This type pipe can be used if the addition of Type "B" Coating (AASHTO M-190, Half Bituminous Coated with Paved Invert) is utilized.

NOTES:
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, ASTM F-949, PVC pipe).
4. Contractor shall provide additional storm water capacity calculations if a pipe material other than concrete is selected for use on this project.

3/1/2007 GPLN

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

GENERAL NOTES

DRAWING No. 04-001

RELEASED FOR CONSTRUCTION 12/02/10

ENVIRONMENTAL RESOURCE IMPACT TABLE

Resource Name/Type	Location		Side	Construction Activity	Permitted Activity	Controlling Criteria	Special Provision?	Comments including any permit expiration dates
	Beginning STA	Ending STA						
STREAM 1A	599+55	600+15	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 1	604+85	606+75	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 3	615+40	616+35	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 3A	619+10	619+70	LT	Culvert Extention w/ Rip rap placement associated with Roadway Widening	39 lf of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream impacts have been mitigated through the purchase of mitigation credits, Buffer variance not required Roadway drainage exemption - work beyond 50 ft of the proposed culvert and within the buffer will require a buffer variance or written permission from EPD prior to commencement of the activity., PERMIT EXPIRES 03/18/2012
STREAM 4A	647+30	649+80	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 4B	710+15	711+35	LT	Dual 18" pipe extension w/ rip rap placement, reconstruction of concrete ditch associated with Ramp D construction	64 LF of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream impacts have been mitigated through the purchase of mitigation credits, Buffer variance not required Roadway drainage exemption - work beyond 50 ft of the proposed culvert and within the buffer will require a buffer variance or written permission from EPD prior to commencement of the activity., PERMIT EXPIRES 03/18/2012
STREAM 4C	712+75	713+50	LT	Construction of 24" pipe due to construction of Ramp D	86 LF of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream impacts have been mitigated through the purchase of mitigation credits, Buffer variance not required Roadway drainage exemption - work beyond 50 ft of the proposed culvert and within the buffer will require a buffer variance or written permission from EPD prior to commencement of the activity., PERMIT EXPIRES 03/18/2012
STREAM 4D	649+00	650+70	RT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream is a non-buffered state water not requiring a buffer, therefore a buffer variance is not required, impacts to the stream are not allowed, any impacts will require a permit modification or a new permit prior to commencement of activity
STREAM 5A	218+00	219+10	LT	Roadway Construction	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	107.23	No activities are to occur within the stream or its associated buffer
STREAM 5	210+40, LT	220+00, RT	Both	Construction of new 60" culvert due to relocation of Rope Mill Rd.	255 LF of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	107.23	Cherokee Darter Habitat; Temporary Orange Barrier Fence shall be utilized at this location to preserve the 25' stream buffer for as long as possible and to prevent accidental clearing of the buffer until construction of the culvert is scheduled to begin; Roadway drainage exemption - work beyond 50 ft of the proposed culvert will require a buffer variance or written permission from EPD prior to commencement of the activity; Culvert to be embedded; PERMIT EXPIRES 03/18/2012
STREAM 7	513+20, LT	427+25, RT	Both	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
WETLAND F	413+30	414+00	RT	Placement of fill due to Ramp B Construction	0.02 AC of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Wetland impacts have been mitigated through the purchase of mitigation credits, PERMIT EXPIRES 03/18/2012
STREAM 5 - ESA Signs	219+10, LT & RT	220+10, LT & RT	Both	Placement of ESA signs	None	Environmental Commitments Table	107.23	Install signs as shown on the signing and marking plans

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DRAWING No. 4-002

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	7	668

RELEASED FOR CONSTRUCTION 12/02/10

GENERAL NOTES FOR STANDARD HIGHWAY SIGNS, SPECIAL ROADSIDE SIGNS AND OVERHEAD HIGHWAY SIGNS

1. ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AS WELL AS ALL GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

2. SIGN ERECTION MILE POINTS 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. APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS IS REQUIRED FOR ANY OVERHEAD STRUCTURE OR SUPPLEMENTAL GUIDE SIGN THAT NEEDS TO BE RELOCATED FROM THE LOCATION FOR WHICH IT WAS DESIGNED.

3. MILE MARKERS SHALL BE ERECTED AT A HEIGHT OF 4 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY. 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.

4. HORIZONTAL CLEARANCE FOR HIGHWAY SIGNS MOUNTED BEHIND GUARDRAIL 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 (HIGH INTENSITY PRESMATIC) RETRO-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 (PRISMATIC LENS) FLUORESCENT YELLOW RETRO-REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

10. A $^{1}/_{2}$ INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

11. 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.

12. 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.

13. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF SPECIAL ROADSIDE SIGNS AND DETAILS AND CLEARANCE DIAGRAMS.

14. THE CONTRACTOR WILL BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

15. HORIZONTAL CLEARANCE FOR SPECIAL ROADSIDE SIGNS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEAR EDGE OF THE SIGN UNLESS SPECIFIED OTHERWISE IN THE PLANS.

16. SPECIAL ROADSIDE SIGNS ERECTED ON CUT SLOPES SHALL HAVE A MINIMUM CLEARANCE OF 1 FOOT ABOVE THE GROUNDLINE AND MAXIMUM HEIGHT OF 10 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN.

17. POST LENGTHS, POST SIZES, AND FOOTING SIZES FOR SPECIAL ROADSIDE SIGNS ARE ESTIMATED, ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL LENGTHS AND SIZES REQUIRED ACCORDING TO GEORGIA STANDARDS PRIOR TO ORDERING MATERIALS. FOR ERECTION AND FOUNDATION DETAILS FOR SPECIAL ROADSIDE SIGNS WITH BREAK-AWAY POSTS, REFER TO GEORGIA STANDARDS 9054A, 9054B, AND 9054C.

18. GALVANIZED STEEL I-BEAMS SHALL HAVE ALL IDENTIFICATION NUMBERS RE-ESTABLISHED AFTER COMPLETION OF GALVANIZING.

19. FOR BREAK-AWAY POSTS THE CONTRACT BID PRICE FOR CLASS "A" CONCRETE SHALL INCLUDE THE COST OF FURNISHING AND PLACING REINFORCEMENT STEEL AND STUB POSTS AS SHOWN IN THE FOOTING DETAILS ON GEORGIA STANDARD 9054A.

20. THE CONTRACTOR SHALL ENSURE THAT ALL SPECIAL ROADSIDE SIGNS AND OVERHEAD SIGNS INSTALLED BY THIS PROJECT HAVE A MINIMUM SIGHT DISTANCE OF 1000 FEET. CLEARING OF OBSTACLES TO OBTAIN THE MINIMUM SIGHT DISTANCE SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE GEORGIA STANDARD SPECIFICATIONS.

21. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AVOID ANY INTERFERENCE WITH UNDERGROUND UTILITIES OR GDOT COMMUNICATIONS. ANY DAMAGE TO UTILITIES OR GDOT COMMUNICATIONS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL CALL GEORGIA 811 AND CONTACT THE GDOT ITS MANAGER AT 404-694-6613 PRIOR TO ANY DIGGING. CALLS SHALL BE PLACED AT LEAST 48 HOURS IN ADVANCE FOR LOCATES.

22. MAINTENANCE WALKWAYS ARE NOT REQUIRED ON STRUCTURAL SUPPORTS OF ANY TYPE.

23. FOR PLACEMENT OF GUARDRAIL, SEE GEORGIA STANDARDS 4022A AND 4051 AND/OR CONSTRUCTION DETAILS.

24. ANY TREES, SHRUBS, OR FLOWERS THAT ARE DAMAGED DURING INSTALLATION OF NEW SIGN STRUCTURES SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE DEPARTMENT IN ACCORDANCE WITH SECTION 702 OF THE GEORGIA STANDARD SPECIFICATIONS.

25. EXISTING FOOTINGS NO LONGER IN USE SHALL BE PARTIALLY REMOVED ONE (1) FOOT BELOW EXISTING GROUND LINE. THE RESULTING HOLE SHALL BE FILLED IN AND STABALIZED.

26. ALL SPECIAL ROADSIDE AND OVERHEAD HIGHWAY SIGNS SHALL BE FABRICATED WITH ALUMINUM BOLTED EXTRUDED PANELS.

27. BACKGROUNDS FOR ALL SPECIAL ROADSIDE AND OVERHEAD HIGHWAY SIGNS SHALL BE STANDARD INTERSTATE GREEN, TYPE III (HIGH INTENSITY PRESMATIC) RETRO-REFLECTIVE SHEETING, UNLESS SPECIFIED OTHERWISE IN THE PLANS.

28. LEGENDS FOR ALL SPECIAL ROADSIDE AND OVERHEAD HIGHWAY SIGNS SHALL BE WHITE, TYPE IX (PRISMATIC LENS) RETRO-REFLECTIVE SHEETING LETTERS, NUMERALS, SYMBOLS AND BORDERS ON 0.032 INCH ALUMINUM CUTOUTS.

29. ALL SHIELDS SHALL BE 0.08 INCH ALUMINUM OF THE SIZE AND SHAPE SPECIFIED IN THE PLANS. U.S. AND GEORGIA SHIELD LEGENDS SHALL BE BLACK NUMERALS AND LETTERS SILK SCREENED ON WHITE, TYPE IX (PRISMATIC LENS) REFLECTIVE SHEETING BACKGROUNDS WITH NO BORDERS. INTERSTAE SHIELDS SHALL BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

30. FOR DETAILS OF U.S. AND INTERSTATE SHIELDS AND ARROWS, REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.

31. SPACING BETWEEN LETTERS OR OTHER CHARACTERS THAT IS NOT SHOWN IN THE PLANS MAY BE RECOMMENDED BY THE MANUFACTURER, BUT SHALL CONFORM TO INTERSTATE SIGNING REQUIREMENTS.

32. FOR ASSEMBLY DETAILS AND ASSEMBLY COMPONENTS DETAILS ON ALUMINUM BOLTED EXTRUDED PANELS, REFER TO GEORGIA STANDARDS 9041 AND 9042.

33. YELLOW OVERLAYS SHALL BE 0.08 INCH ALUMINUM OF THE SIZE SPECIFIED IN THE PLANS. LEGENDS SHALL BE BLACK LETTERS, NUMERALS AND SYMBOLS SILK SCREENED ON STANDARD INTERSTATE YELLOW, TYPE III (ENCAPSULATED LENS) REFLECTIVE SHEETING BACKGROUNDS. SEE GENERAL NOTE NO. 13 FOR BORDER. SIGN PANELS BEHIND YELLOW OVERLAYS SHALL BE THE SAME COLOR AS THE REST OF THE SIGN.

34. STRUCTURE NUMBERS SHALL BE PLACED ON OUTSIDE SHOULDER VERTICAL SUPPORT OF STRUCTURE USING DIE CUT, 6 INCH SERIES "D" WHITE, TYPE I (ENCLOSED LENS) REFLECTIVE SHEETING CHARACTERS ON STANDARD INTERSTATE GREEN, TYPE I (ENCLOSED LENS) REFLECTIVE SHEETING. THE STRUCTURE NUMBER, WHICH SHALL READ FROM TOP TO BOTTOM, SHALL BE PLACED AT EYE LEVEL AND POSITIONED SO THAT IT IS VISIBLE TO ONCOMING TRAFFIC. THE AREA WHERE STRUCTURE NUMBER IS TO BE PLACED SHALL BE COATED WITH PRIMER AND ALLOWED TO DRY BEFORE PLACING STRUCTURE NUMBER.

35. ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF AASHTO M 314 GRADE 55.

36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THAT THE SPAN LENGTHS SHOWN ON THE PLANS ARE CORRECT AND FOR DETERMINING THE ELEVATION OF THE HIGHEST POINT OF THE PAVEMENT OR SHOULDER AND OF THE GROUNDLINE AT THE CENTERLINE OF EACH VERTICAL SUPPORT FOR ALL OVERHEAD STRUCTURES PRIOR TO THEIR DESIGN AND FABRICATION.

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

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GENERAL NOTES

SIGNING NOTES

DRAWING No. 04-003

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

TRAFFIC SIGNAL GENERAL NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION.

2. SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.

3. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET, DETECTORS SHALL HAVE SEPERATE LEAD-INS TO THE CONTROL CABINET.

4. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. AT THE DISCRETION OF THE ENGINEER, MINOR SHIFTS, (UP TO A MAXIMUM OF 5 FEET), IN LOCATION OF NEW SIGNAL POLES, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.

5. THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATIONS(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING UTILITY TIMBER POLES WHEN ATTACHING SPAN WIRE OR INTERCONNECT CABLE TO THE POLES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE DISTRICT TRAFFIC ENGINEER PRIOR TO FINAL ACCEPTANCE.

8. FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.

9. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE DOT SPECIFICATION.

10. PROPOSED SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES ARE PROVIDED AS GENERAL GUIDELINES TO INSTALLER, ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.

11. SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMPS SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM.

NOTES:
UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTORS/INSTALLERS NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS/INSTALLERS EXPENSE.

CONTRACTOR/INSTALLER SHALL CONTACT UTILITY LOCATOR SERVICE BY CALLING GEORGIA 811 AND COUNTY OF CHEROKEE AT 678-493-6077 PRIOR TO ANY CONSTRUCTION.

EXISTING POLE ATTACHMENT DATA IS APPROXIMATE AND IS PROVIDED AS A GENERAL GUIDELINE TO THE CONTRACTOR/INSTALLER TO AID IN IDENTIFYING POTENTIAL INSTALLATION CONFLICTS, THE CONTRACTOR/INSTALLER SHALL PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES.

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STATE OF GEORGIA
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GENERAL NOTES

DRAWING No. 04-004

11/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ITS GENERAL NOTES

1. THE CONTRACTOR SHALL LOCATE ALL UTILITIES BEFORE DIGGING TO ELIMINATE ANY CONFLICTS. TO OBTAIN HIGHWAY LIGHTING PLANS, THE CONTRACTOR SHALL CONTACT THE DEPARTMENT AT (404) 631-1534. FOR GDOT ATMS / ITS FACILITIES THAT MAY BE IMPACTED, THE CONTRACTOR SHALL CONTACT THE GDOT ITS MANAGER AT (404) 694-6613.

2. THE CONTRACTOR SHALL CONTACT THE ITS MANAGER AT (404) 694-6613 TO LOCATE GDOT ITS INFRASTRUCTURE AT LEAST 48 HOURS IN ADVANCE.

3. WITHIN 24 HOURS, THE CONTRACTOR SHALL REPAIR ANY EXISTING CONDUIT, CABLE, OR PIPE THAT IS DAMAGED BY ANY WORK PERFORMED AS PART OF THIS PROJECT AT NO ADDITIONAL COST TO THE DEPARTMENT.

4. THE CONTRACTOR SHALL REPLACE IN LIKE KIND AND SIZE, AT NO ADDITIONAL COST TO THE DEPARTMENT, ANY PAVEMENT MARKINGS, BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAIL, LANDSCAPING (IN ACCORDANCE WITH GEORGIA SPECIFICATIONS SECTION 702), GRASSING (IN ACCORDANCE WITH GEORGIA SPECIFICATIONS SECTION 700), UTILITY SERVICE LINES, STORM DRAIN PIPES, RUMBLE STRIPS, ROADWAY, AND ANY RETAINING WALLS THAT ARE DAMAGED OR DESTROYED BY ANY WORK PERFORMED AS PART OF THIS PROJECT. THE CONTRACTOR WILL NOT BE REQUIRED TO MAINTAIN LANDSCAPING AS SPECIFIED IN SECTION 702.3.07 OF THE GEORGIA SPECIFICATIONS.

5. FIBERGLASS OR RIGID STEEL CONDUIT SHALL BE USED AT ALL EXPOSED CONDUIT LOCATIONS.

6. THE CONTRACTOR SHALL REMOVE PAVEMENT BY SAW CUT TO PROVIDE A NEAT LINE. WHERE CONDUIT IS INSTALLED, THE CONTRACTOR SHALL INLAY TO MATCH EXISTING SURFACE TYPE AFTER CONDUIT IS INSTALLED. PAVEMENT REMOVAL AND PAVEMENT INLAY SHALL BE INCLUDED IN THE BID PRICE FOR CONDUIT DUCT BANK OR CONDUIT.

7. ANY REQUIRED EROSION CONTROL DEVICES WILL NOT BE MEASURED SEPARATELY.

8. THE ELECTRIC POWER SERVICE ASSEMBLY POINTS SHOWN ON THE PLANS ARE FOR THE CONTRACTOR'S USE IN DETERMINING POWER ROUTING TO EACH DEVICE. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRICAL UTILITY COMPANIES TO PROVIDE POWER TO THE SERVICE RISER POINTS. POWER SERVICE SHALL BE LOCATED AS SHOWN ON PLANS OR AT THE BACK OF THE RIGHT-OF-WAY LINE, IF A NEW LOCATION IS PROPOSED.

9. UNLESS OTHERWISE NOTED ON THE PLANS, ALL PROPOSED STRAIN POLES SHALL BE INSTALLED A MINIMUM OF 38 FEET FROM THE EDGE OF TEH NEAREST TRAVEL LANE OR 6 FEET BEHIND EXISTING OR PROPOSED GUARDRAIL WHERE SHOWN ON THE PLANS.

10. CONDUIT UNDER RAMPS SHALL BE INSTALLED BY DIRECTIONAL BORING, UNLESS NOTED OTHERWISE ON THE PLANS.

11. THE CONTRACTOR SHALL DIRECT BURY SERVICE WIRE TO THE DEVICES. THE COST OF THE SERVICE WIRE, AND ANY OTHER MATERIALS REQUIRED TO PROVIDE POWER SERVICE TO THE DEVICES SHALL BE INCLUDED IN THE BID PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY, AERIAL SERVICE POINT.

12. ALL EXISTING NAV NUMBERS SHALL BE RELOCATED TO NEW POLES. CONTRACTOR TO UPGRADE NAV NUMBERS AS NECESSARY BASED ON NEW POLE LOCATIONS.

13. THE CONTRACTOR SHALL CONFIRM EACH POWER SERVICE POINT WITH THE POWER COMPANY PRIOR TO INSTALLATION.

14. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR WILL PROVDE AS-BUILT PLANS THAT INCLUDE THE LOCATION OF INSTALLED FIBER, ELECTRICAL COMMUNICATION BOXES (ECBS), PULL BOXES, CONDUIT LOCATION AND DEPTH, AND POWER SERVICE FEEDS.

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DRAWING No. 04-005

1/5/2009 GPLN

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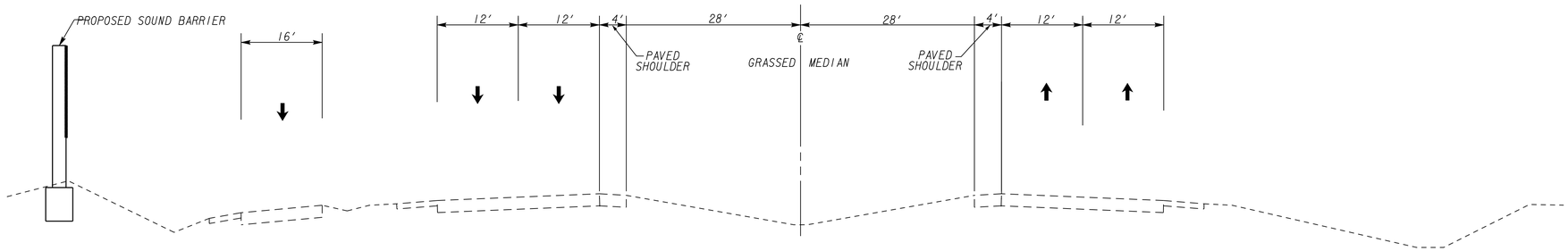
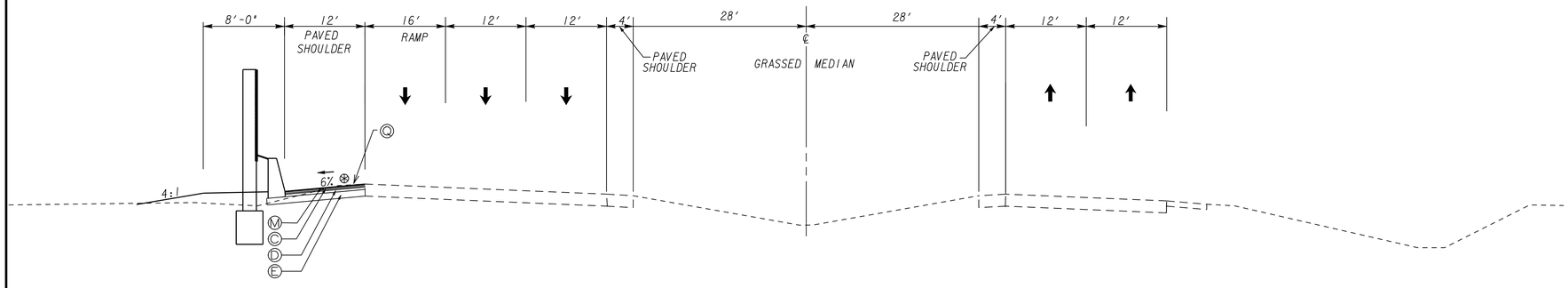


I-575 SOUTHBOUND
STA. 596+11.73 TO STA. 599+44.21

TANGENT SECTION

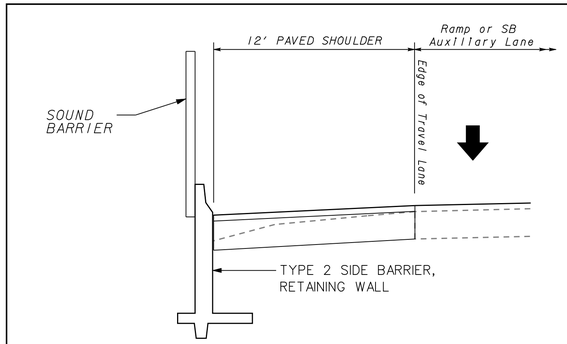
TYPICAL SECTION #1



I-575 SOUTHBOUND
STA. 599+44.21 TO STA. 603+00.00

SUPERELEVATED SECTION

TYPICAL SECTION #2



REQUIRED RETAINING WALL

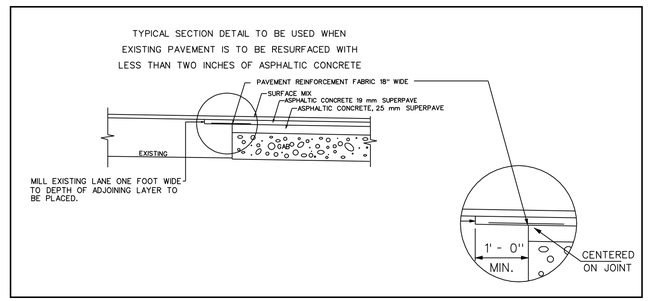
APPLIES:
I-575 SB AUX. LANE STA. 646+75.00
TO STA. 650+40.00

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

VARIABLE SLOPE CONTROLS		
SLOPE	FILL	CUT
4:1	0-6.0'	0-6.0'
2:1	6.0'+ *	6.0'+

* REQ'D GUARDRAIL



ALL SLOPES 2:1 OR GREATER REQUIRE GUARDRAIL.

⊛ ALGEBRAIC DIFFERENCE IN PAVING AND SHOULDER SLOPES NOT TO EXCEED 8%.

⊛⊛ SHOULDER TO SLOPE AT NORMAL RATE OR SUPERELEVATION RATE, WHICHEVER IS GREATER.

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TYPICAL SECTIONS

DRAWING No. 5-001

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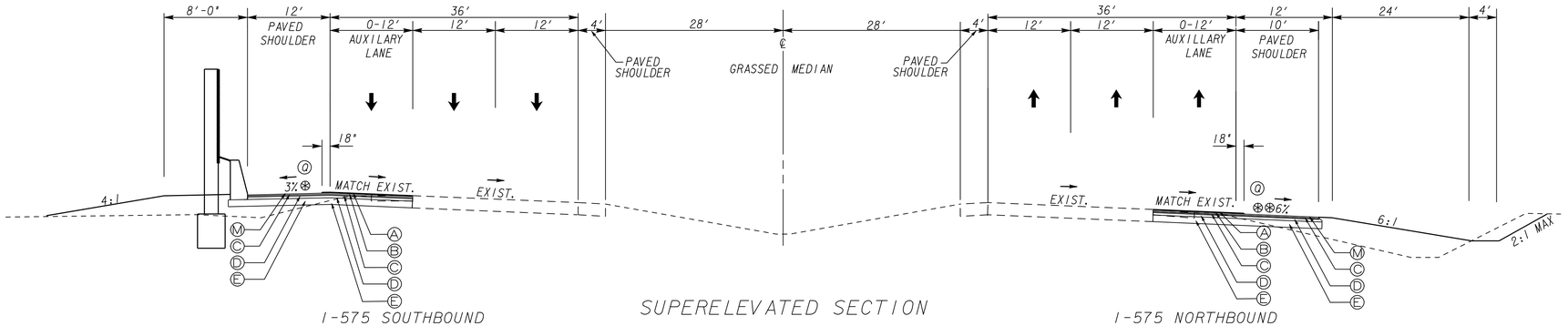
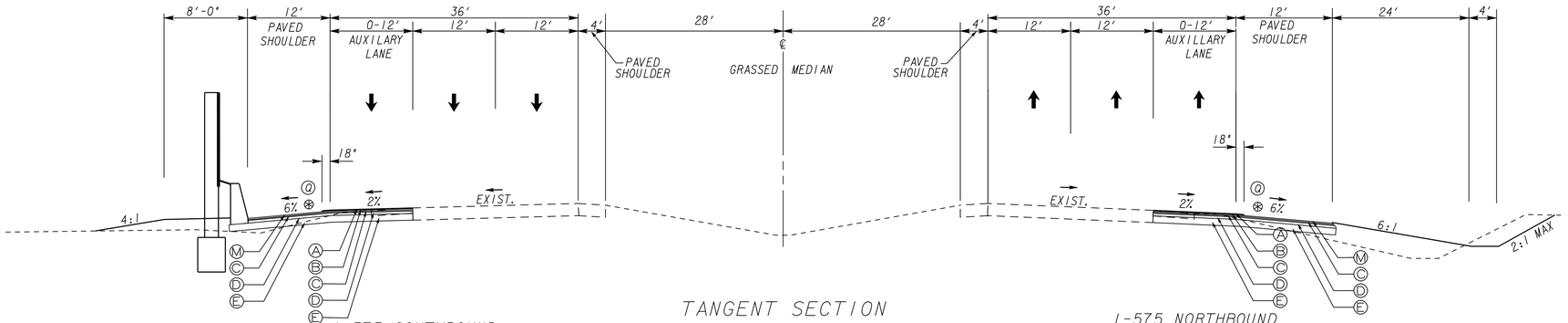


I-575 SOUTHBOUND
STA. 603+00.00 TO STA. 643+58.73

SUPERELEVATED SECTION

TYPICAL SECTION #3

I-575 NORTHBOUND
STA. 637+08.52 TO STA. 643+58.73

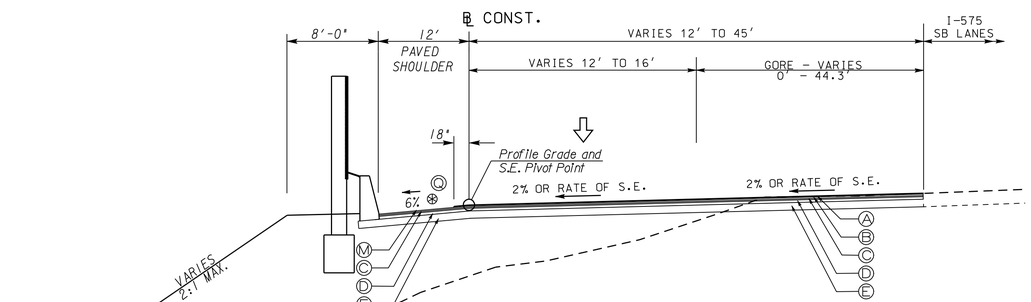


I-575 SOUTHBOUND
STA. 643+58.73 TO STA. 650+07.71

TANGENT SECTION

TYPICAL SECTION #4

I-575 NORTHBOUND
STA. 643+58.73 TO STA. 650+45.60



TYPICAL SECTION #5

RAMP "D"
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

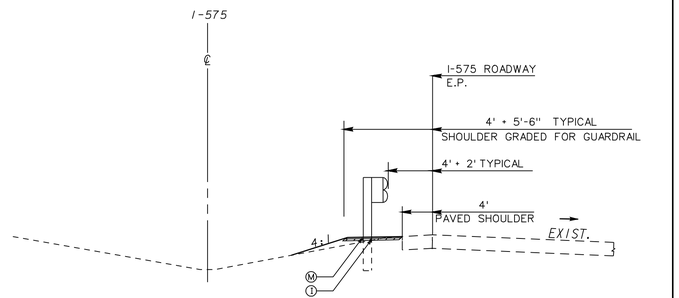
VARIABLE SLOPE CONTROLS		
SLOPE	FILL	CUT
4:1	0-6.0'	0-6.0'
2:1	6.0'+ *	6.0'+

* REQ'D GUARDRAIL

ALL SLOPES 2:1 OR GREATER REQUIRE GUARDRAIL.

⊛ ALGEBRAIC DIFFERENCE IN PAVING AND SHOULDER SLOPES NOT TO EXCEED 8%.

⊛⊛ SHOULDER TO SLOPE AT NORMAL RATE OR SUPERELEVATION RATE, WHICHEVER IS GREATER.



I-575 MEDIAN GUARDRAIL INSTALLATION
SEE PLANS FOR LOCATIONS

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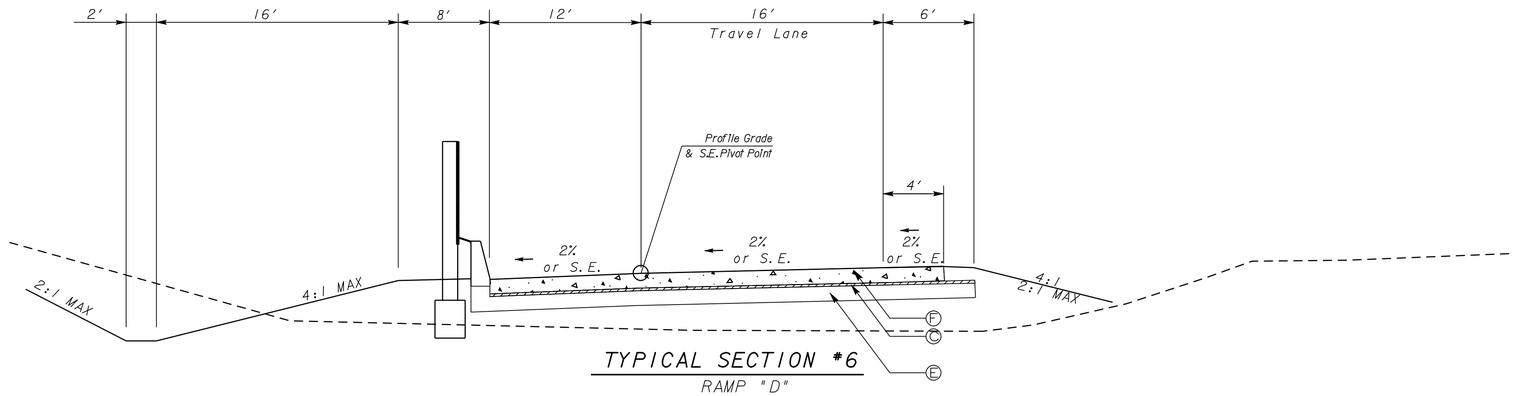
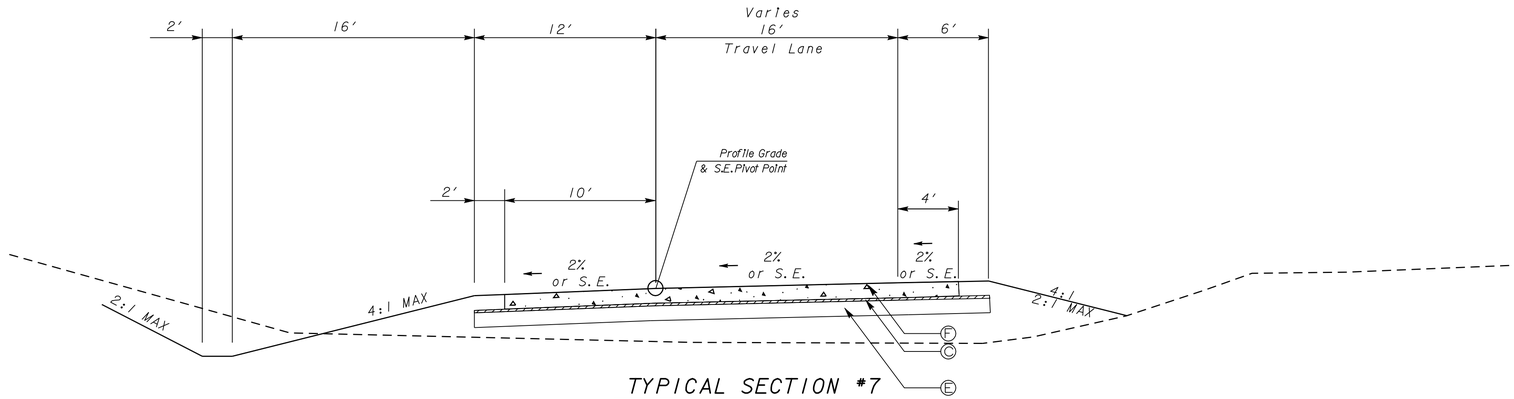
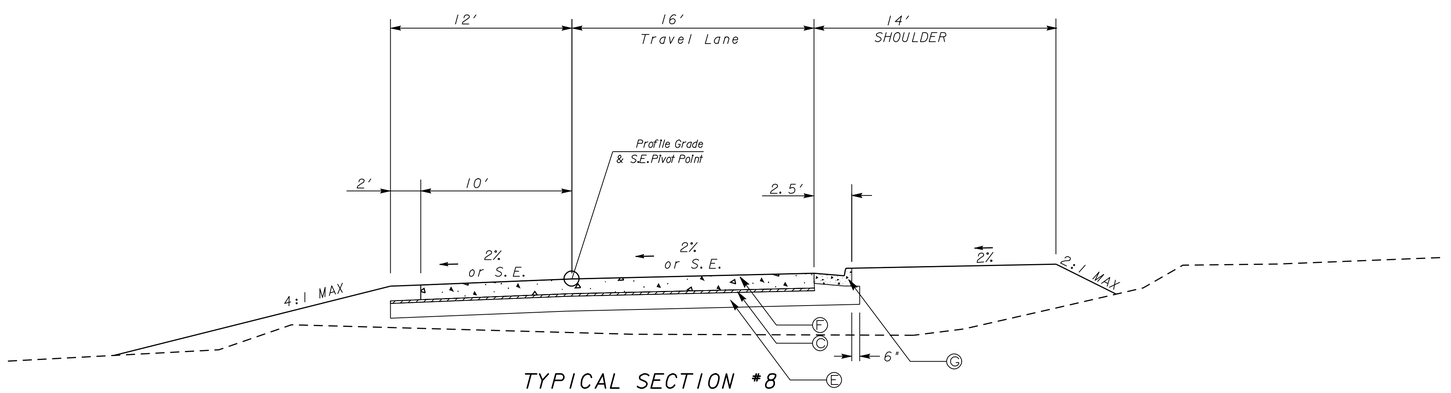


TYPICAL SECTION #6
RAMP "D"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #7
RAMP "C" SEE PLANS FOR LOCATIONS
RAMP "D" SEE PLANS FOR LOCATIONS



TYPICAL SECTION #8
RAMP "D"
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT
- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
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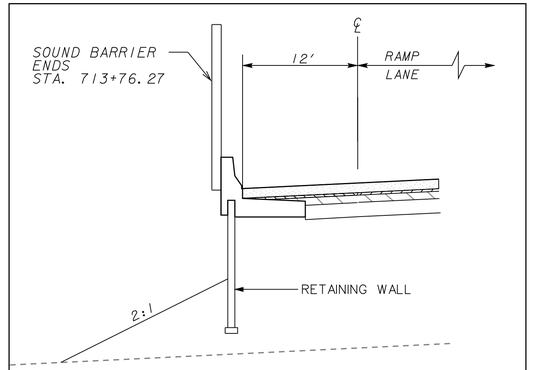
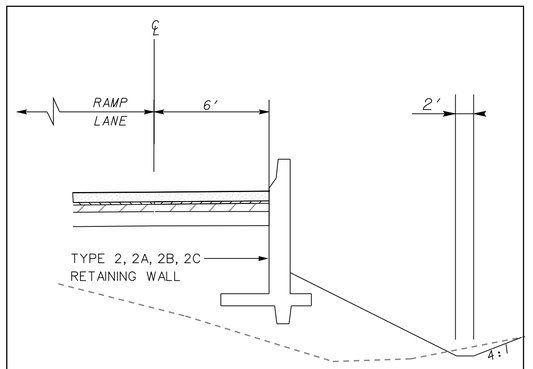
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE



REQUIRED RETAINING WALL
APPLIES STA. 710+25.00 TO STA. 714+30.00 LT.
RAMP 'D'



REQUIRED RETAINING WALL
APPLIES STA. 504+00.00 TO STA. 507+25.00 RT.
RAMP 'C'

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TYPICAL SECTIONS

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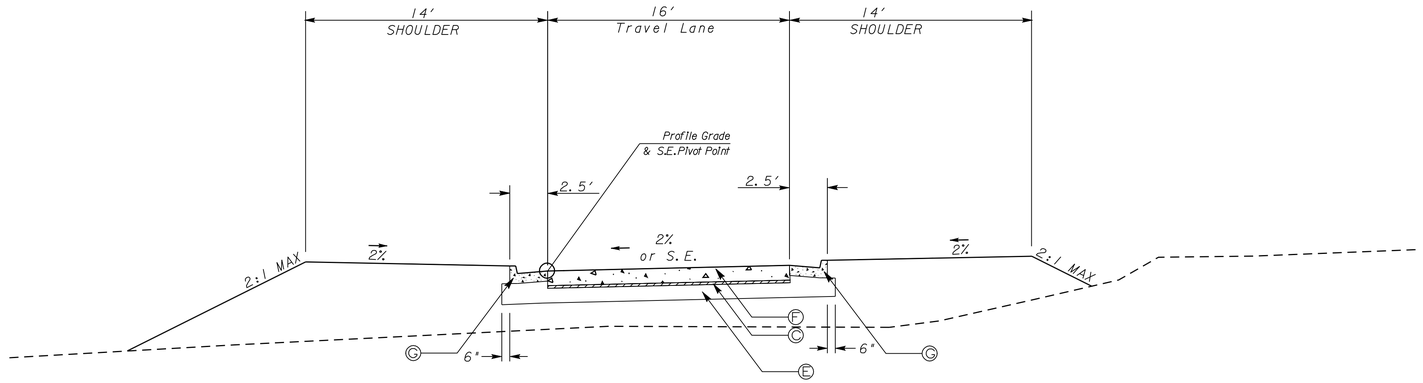
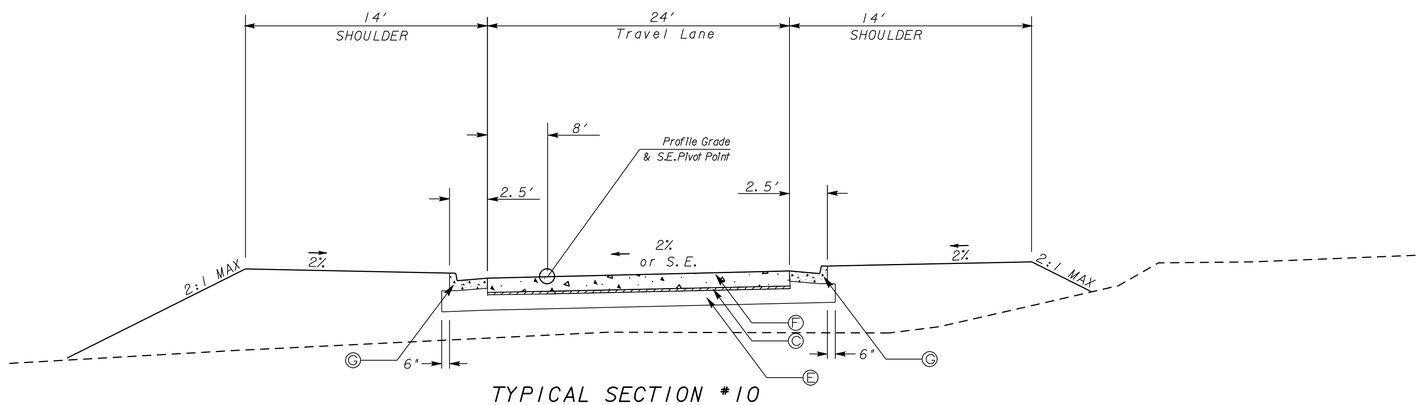


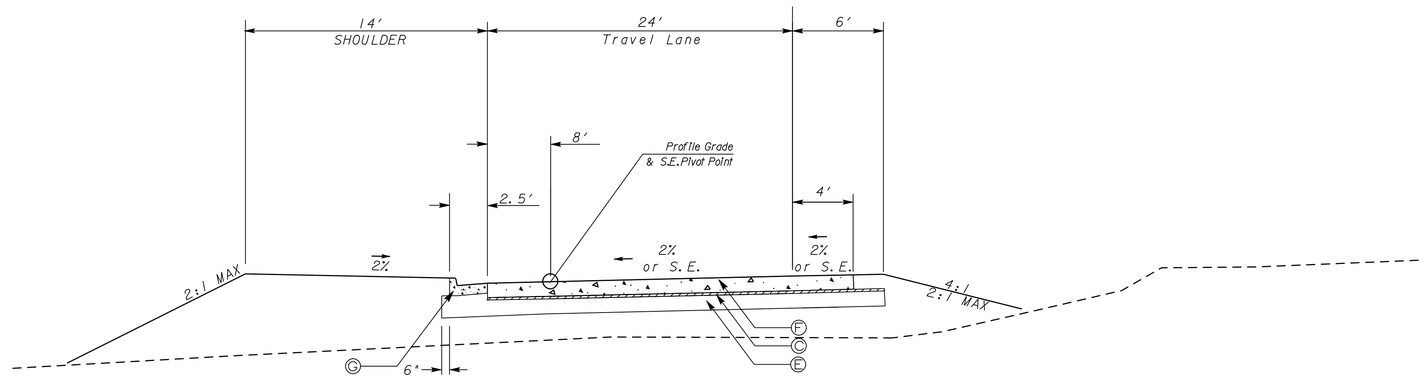
TYPICAL SECTION #9

RAMP "D"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #10

RAMP "C"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #11

RAMP "C"
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
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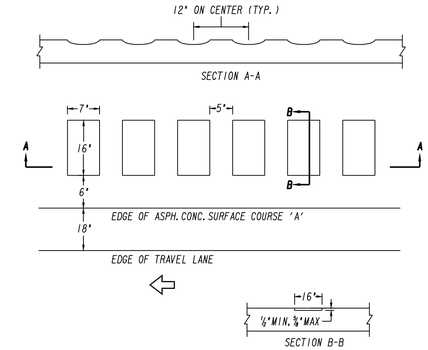
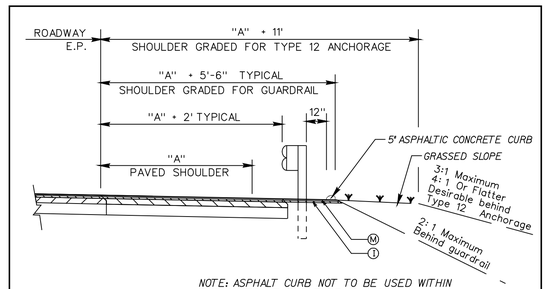
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE



CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE
APPLIES: STA. 602+28.00 TO STA. 650+07.80 SB I-575
STA. 637+08.52 TO STA. 650+44.40 NB I-575

SEE GA STD. DETAIL S-9 FOR DETAILS



NOTE: ASPHALT CURB NOT TO BE USED WITHIN THE LIMITS OF THE TYPE 12 ANCHOR

TYPICAL ASPHALT SHOULDER DETAIL FOR SINGLE FACE GUARDRAIL SEE PLAN VIEW FOR LOCATION.

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TYPICAL SECTIONS

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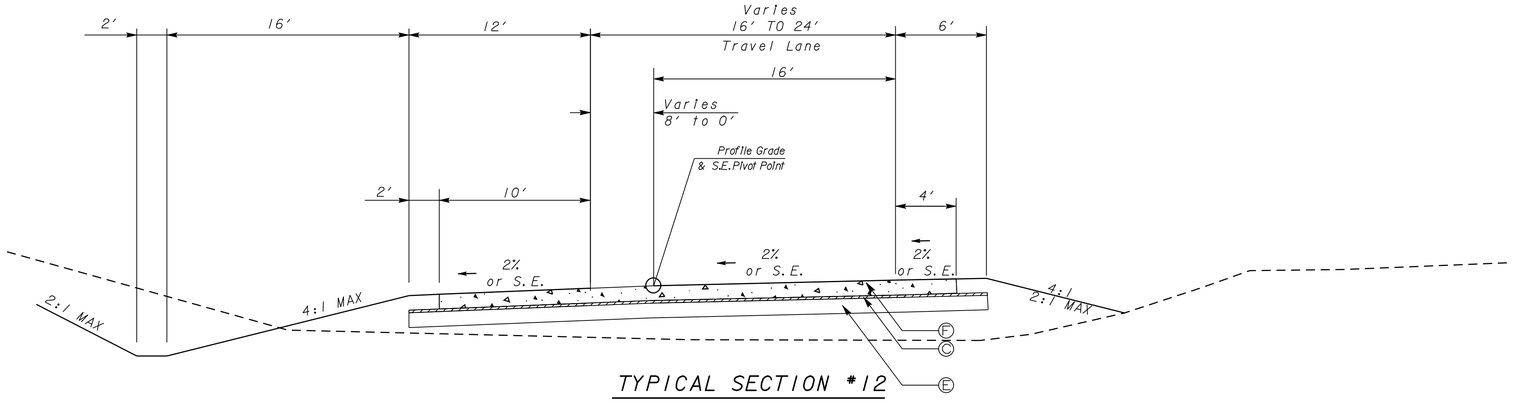
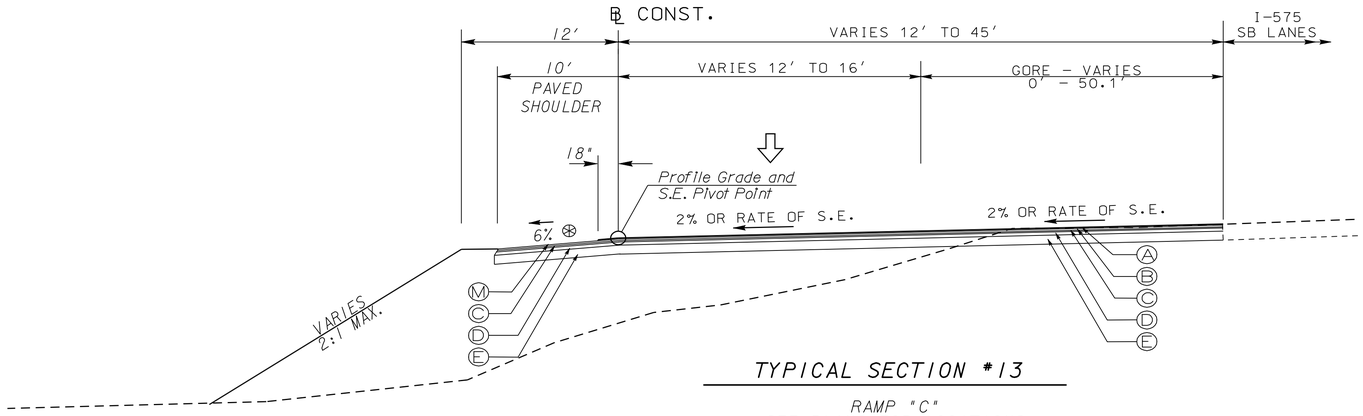


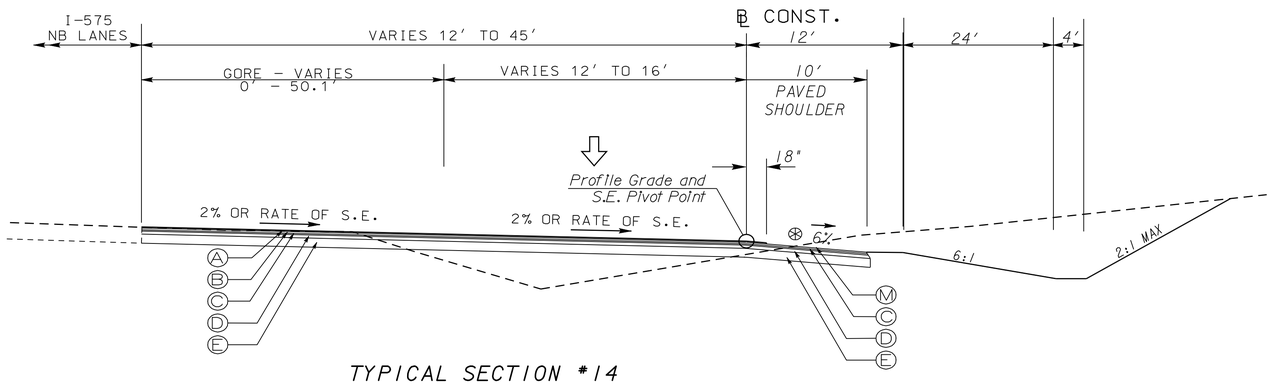
TYPICAL SECTION #12

RAMP "C"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #13

RAMP "C"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #14

RAMP "A" SEE PLANS FOR LOCATIONS
RAMP "B" SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
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- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

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).

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DRAWING No. 5-005

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	15	668

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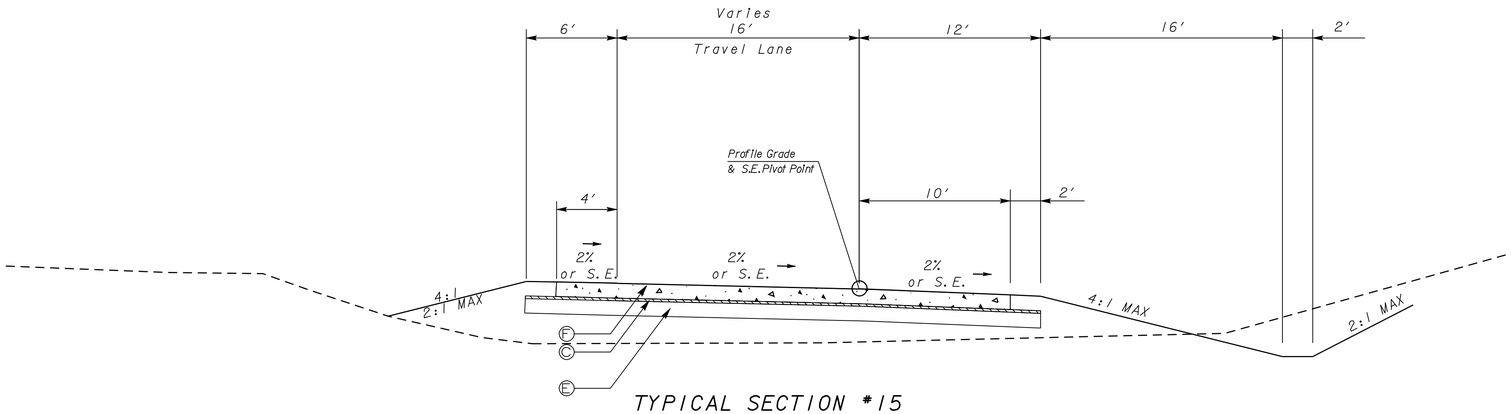
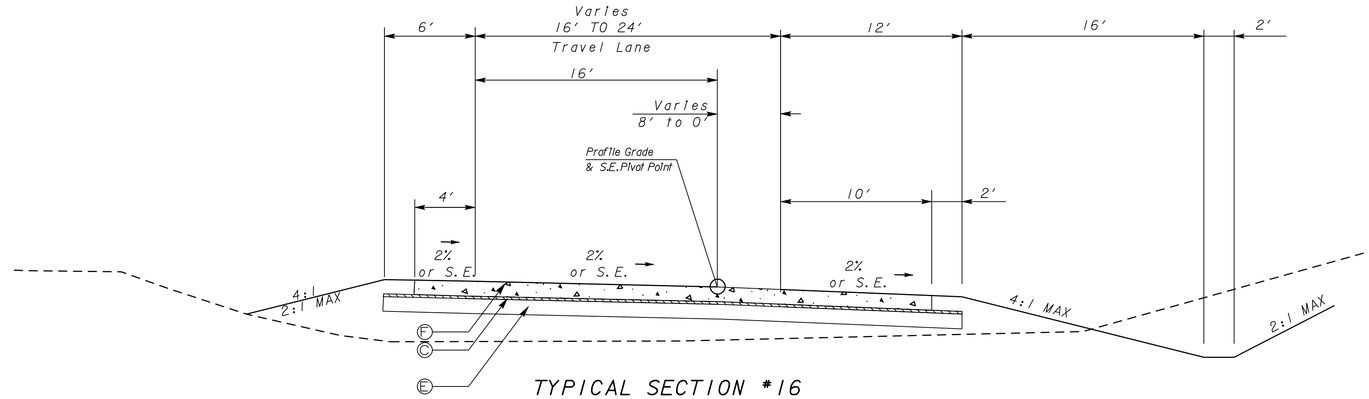


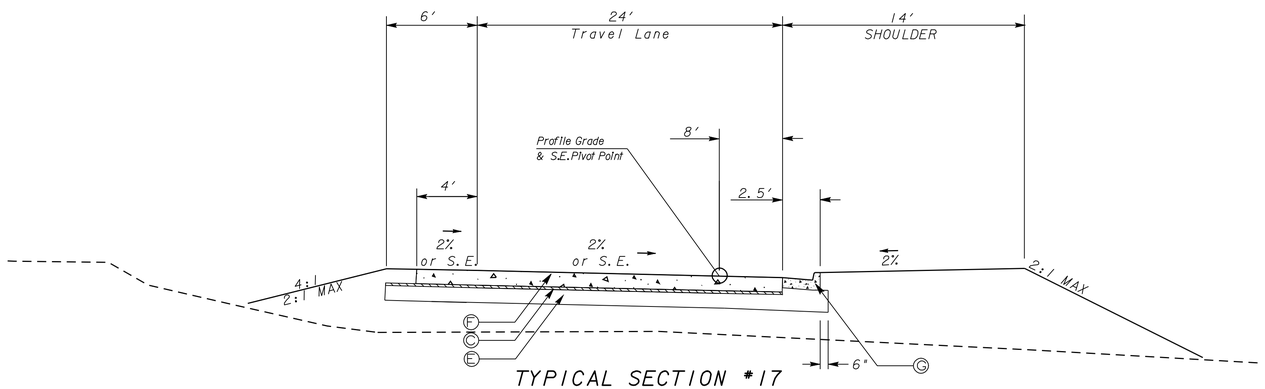
TYPICAL SECTION #15

RAMP "A" SEE PLANS FOR LOCATIONS
RAMP "B" SEE PLANS FOR LOCATIONS



TYPICAL SECTION #16

RAMP "A"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #17

RAMP "A"
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
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- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
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- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

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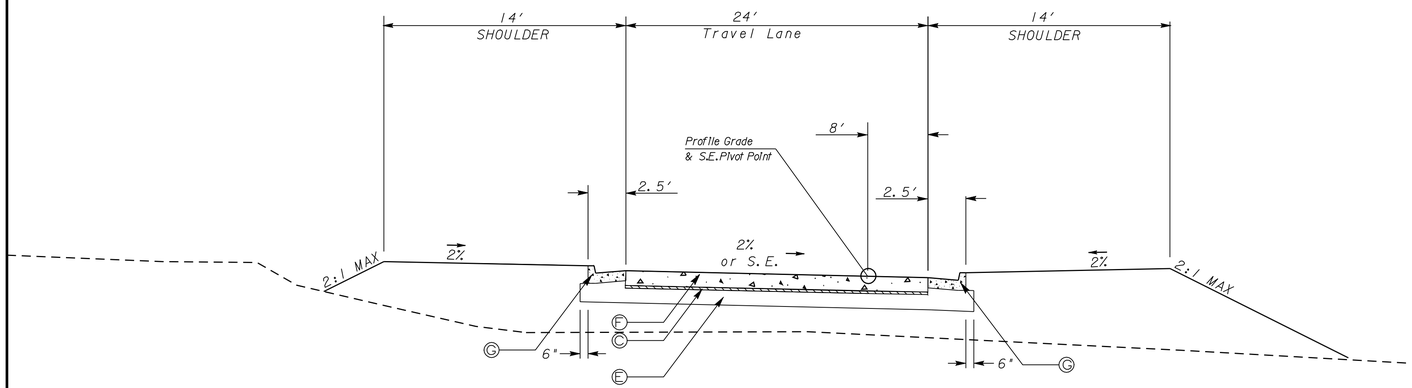
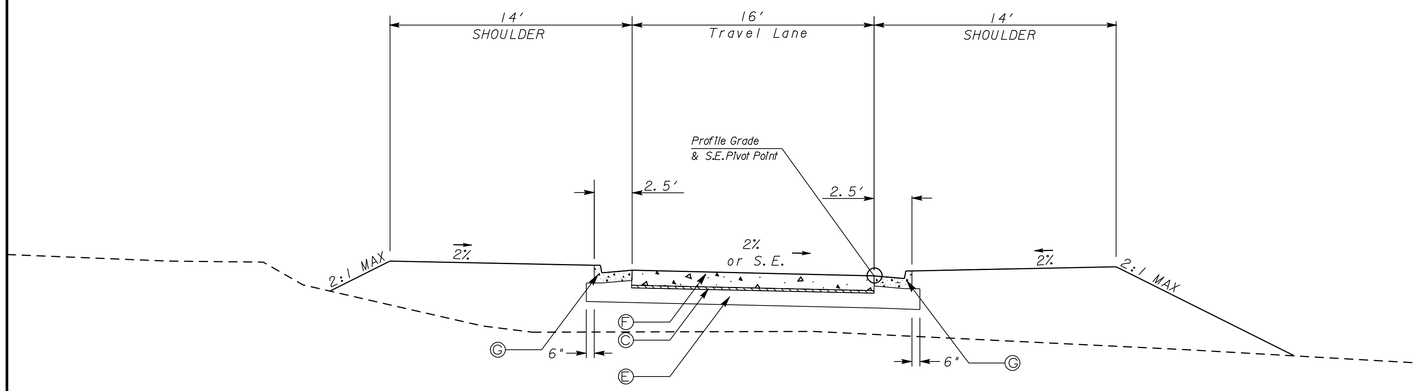


TYPICAL SECTION #18

RAMP "B"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #19

RAMP "B"
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
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- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
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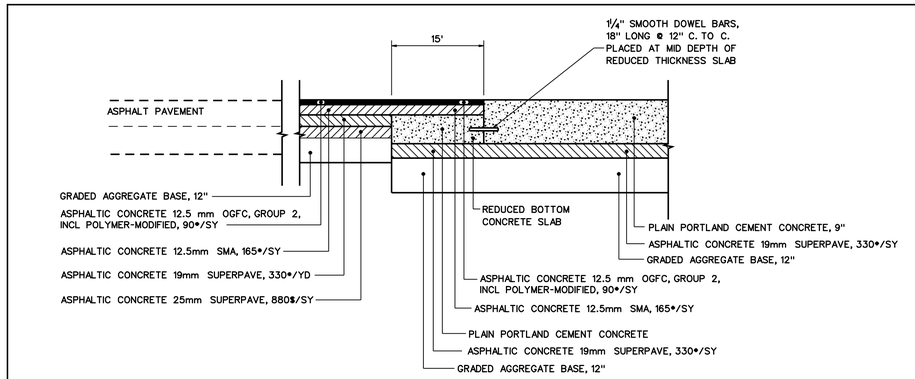
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE



CONCRETE PAVEMENT TO ASPHALT PAVEMENT TRANSITION DETAIL

N.T.S.

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DRAWING No. 5-007

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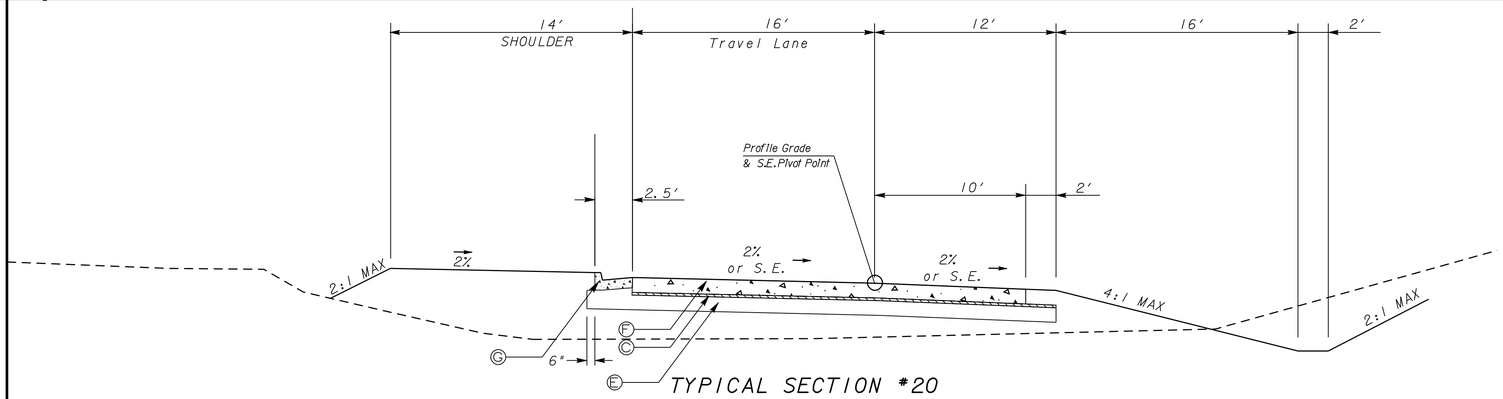
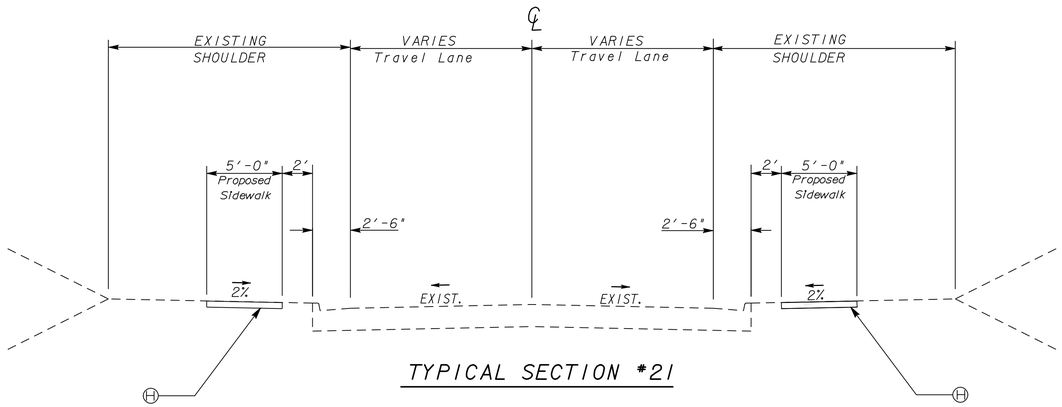


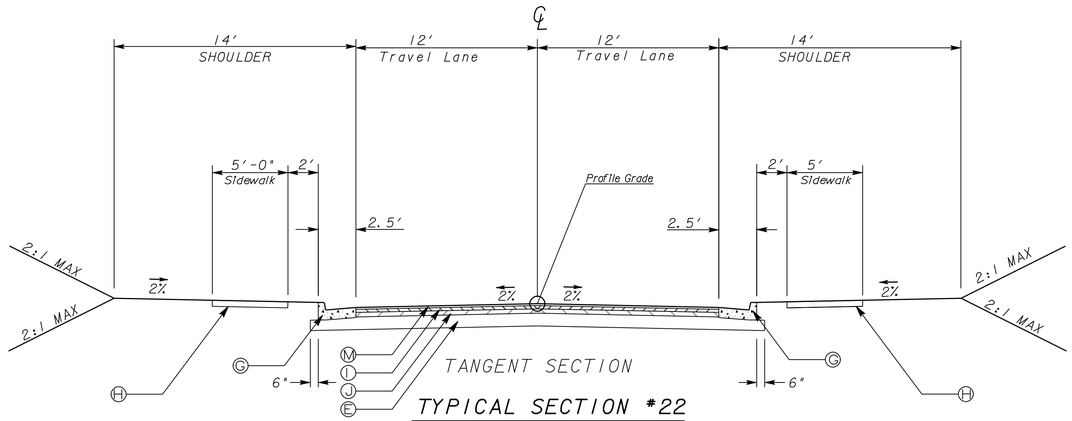
TYPICAL SECTION #20

RAMP "B"
SEE PLANS FOR LOCATIONS



TYPICAL SECTION #21

RIDGEWALK PARKWAY
STA. 96+89.12 TO STA. 99+05.00

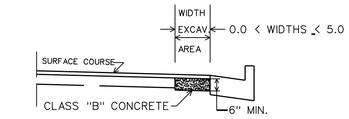


TYPICAL SECTION #22

RIDGEWALK PARKWAY
STA. 99+05.00 TO STA. 101+19.00

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE



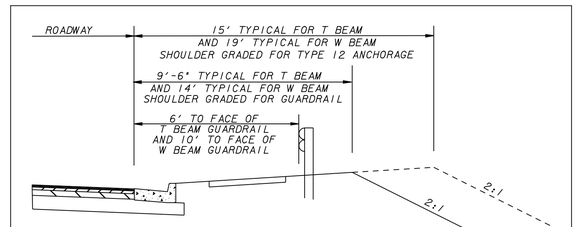
NO SCALE
CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section.

In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.

See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL



SHOULDER DETAIL FOR GUARDRAIL

SEE GA STD 4280.
SEE PLANS FOR LOCATIONS

THE LPA GROUP
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(770) 263-9118

REVISION DATES		

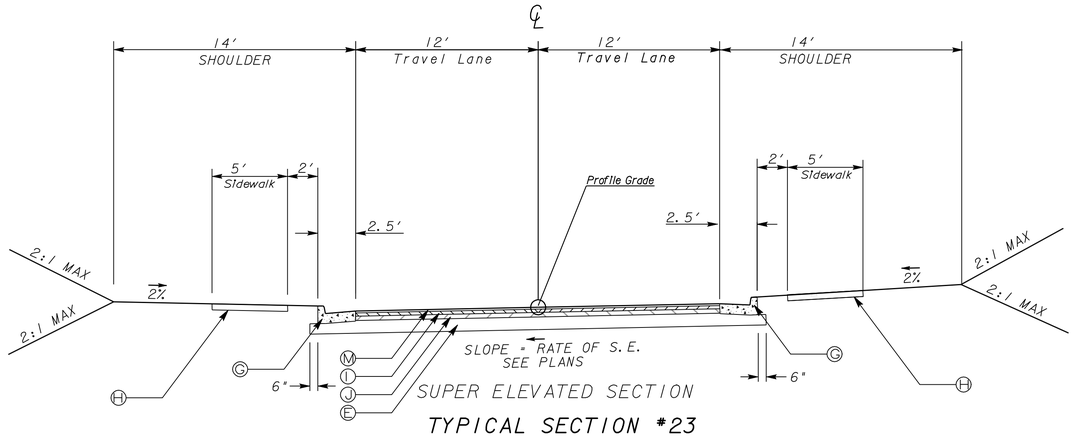
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

TYPICAL SECTIONS

DRAWING No. 5-008

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	18	668

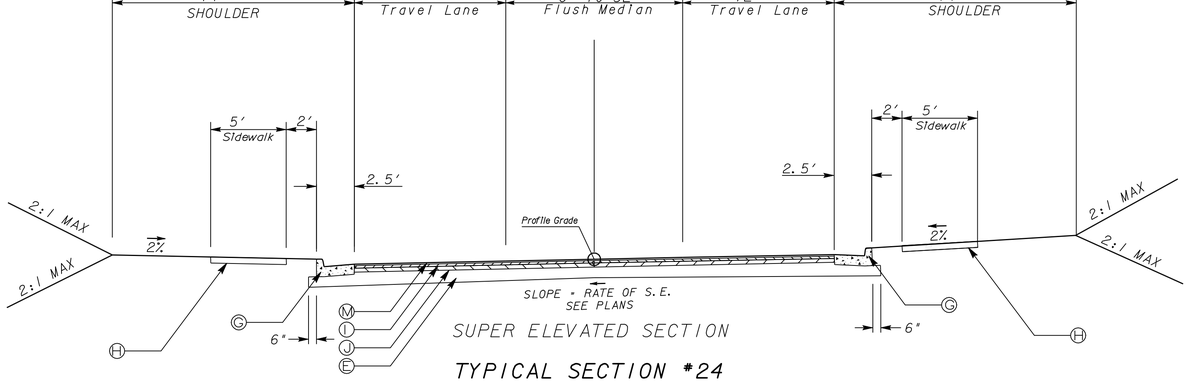
RELEASED FOR CONSTRUCTION 12/02/10



SUPER ELEVATED SECTION

TYPICAL SECTION #23

RIDGEWALK PARKWAY
SEE PLANS FOR LOCATIONS



SUPER ELEVATED SECTION

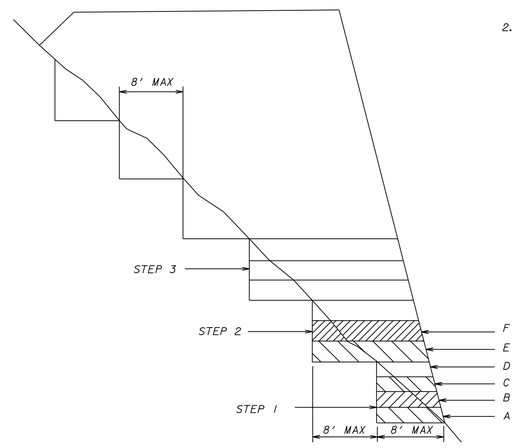
TYPICAL SECTION #24

RIDGEWALK PARKWAY
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

BENCHING DETAIL



1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE. (SEE DIAGRAM AT LEFT)
2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8′ (ABOUT 3/4 THE WIDTH OF THE USUAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED. BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8′ INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4′ IF AN 8′ HORIZONTAL CUT IS MADE. THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4′ ALLOWING THE HORIZONTAL DISTANCE TO VARY.

THE LPA GROUP
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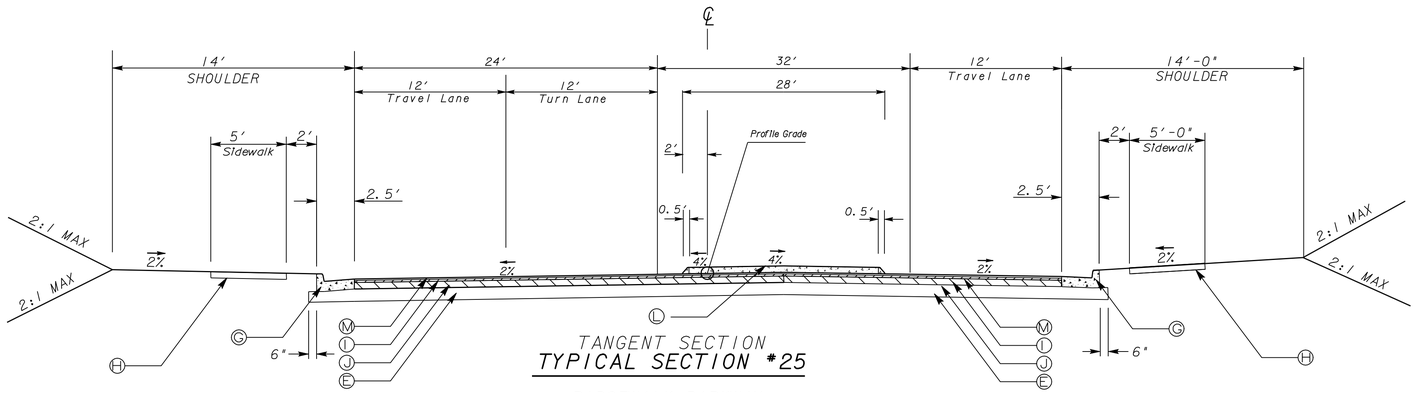
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

TYPICAL SECTIONS

DRAWING No. 5-009

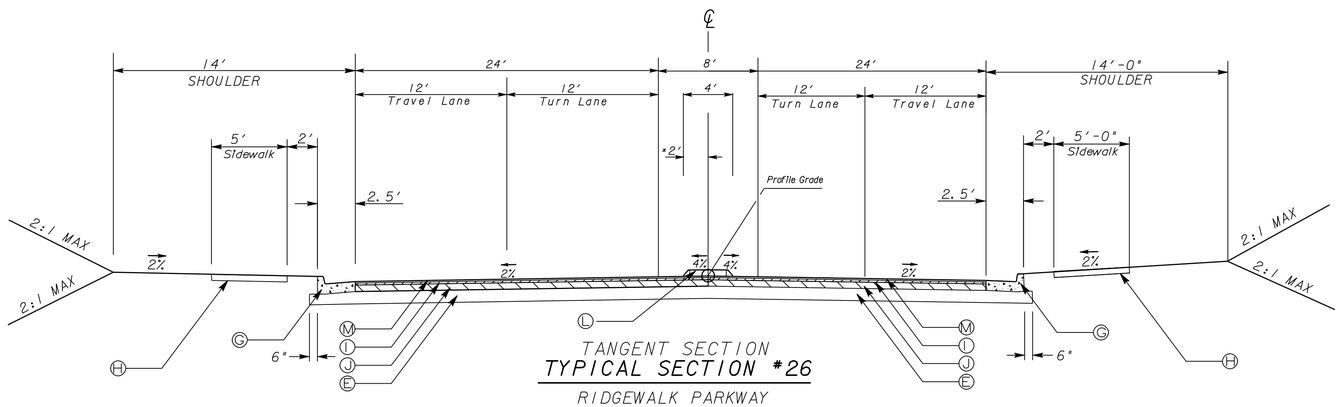
1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



TANGENT SECTION
TYPICAL SECTION #25

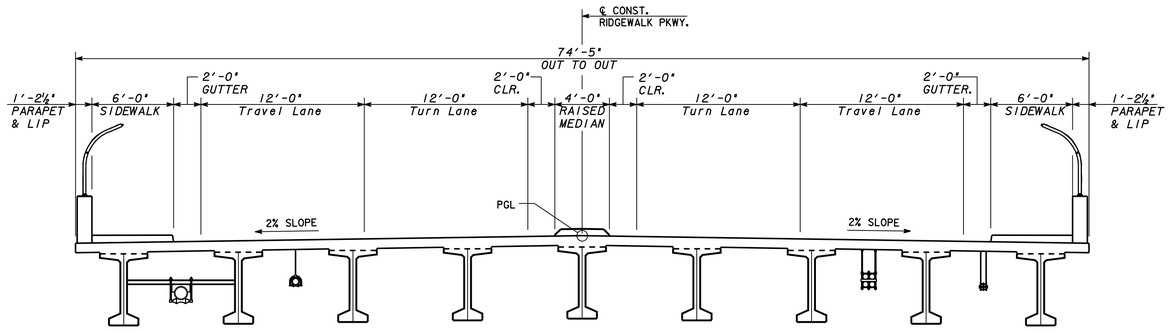
RIDGEWALK PARKWAY
STA. 109+29.70 TO STA. 109+75.50



TANGENT SECTION
TYPICAL SECTION #26

RIDGEWALK PARKWAY
STA. 109+75.50 TO STA. 110+15.10
STA. 112+39.10 TO STA. 113+35.00

* MEDIAN TRANSITION: 109+75.50 TO 110+25.50, RT



TYPICAL SECTION #27

RIDGEWALK PARKWAY
STA. 110+15.10 (BEGIN BRIDGE) TO STA. 112+39.10 (END BRIDGE)

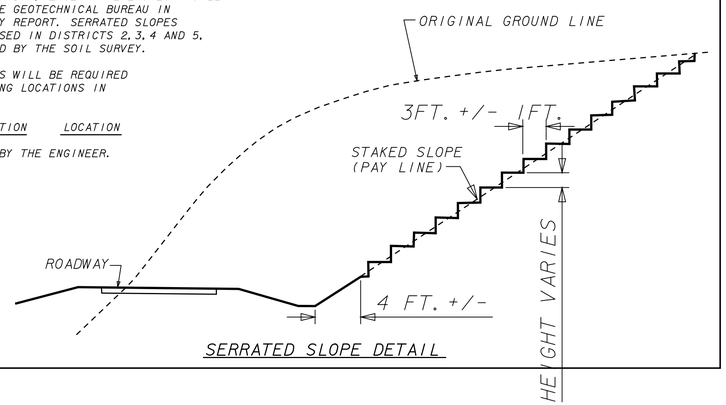
REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

NOTES:

1. SLOPES STEEPER THAN 3:1 SHALL BE SERRATED. CUT SLOPES IN HARD AND COMPETENT ROCK WILL NOT REQUIRE SERRATING.
2. WIDTH OF STEP SHALL BE 3 FT. +/- 1 FT.
3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.
4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL
5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS 1, 6 AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEOTECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2, 3, 4 AND 5, UNLESS REQUIRED BY THE SOIL SURVEY.
6. SERRATED SLOPES WILL BE REQUIRED AT THE FOLLOWING LOCATIONS IN THIS PROJECT:

STATION TO STATION	LOCATION
AS DIRECTED BY THE ENGINEER.	



SERRATED SLOPE DETAIL

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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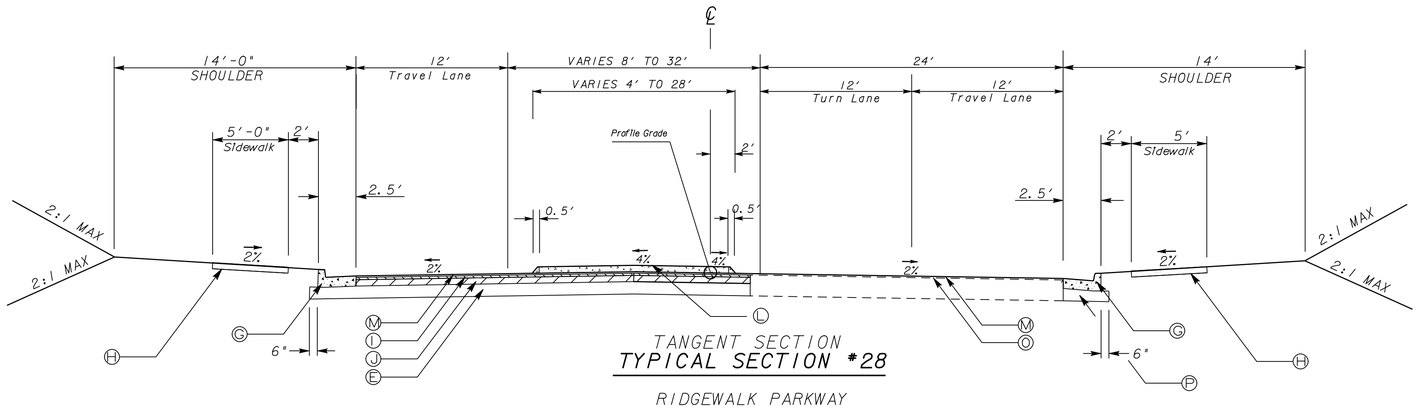
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

TYPICAL SECTIONS

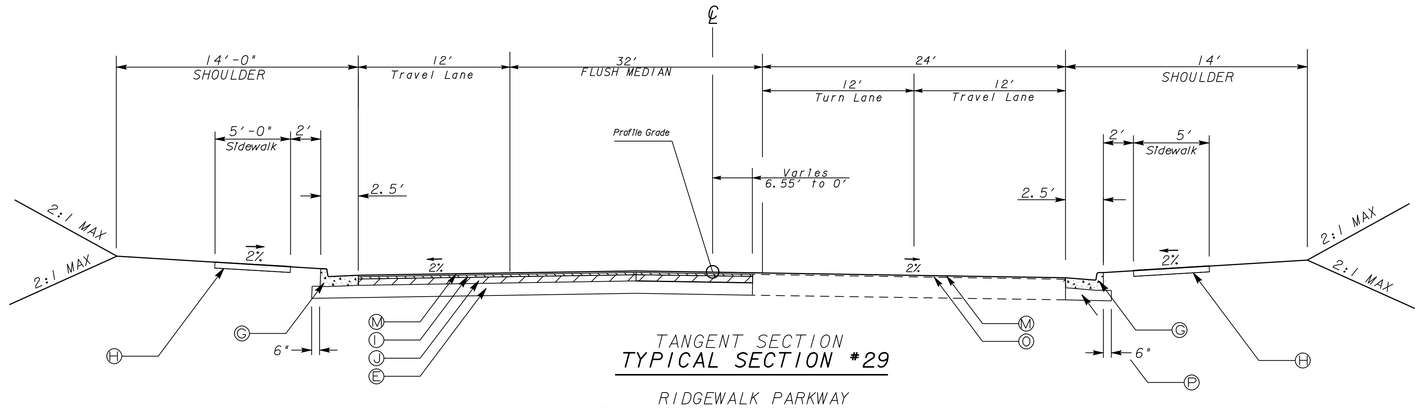
DRAWING No. 5-010

RELEASED FOR CONSTRUCTION 12/02/10



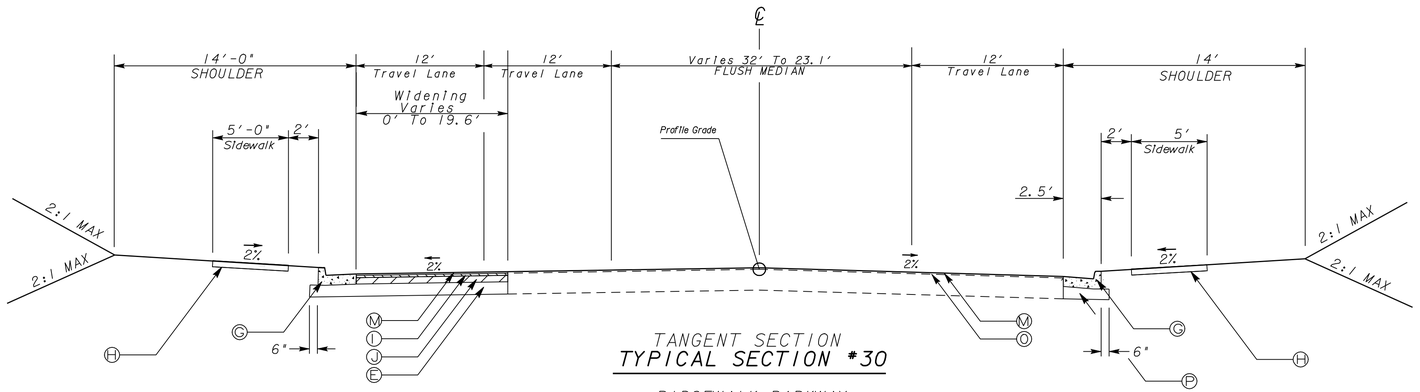
TANGENT SECTION
TYPICAL SECTION #28

RIDGEWALK PARKWAY
STA. 113+35.00 TO STA. 114+29.70



TANGENT SECTION
TYPICAL SECTION #29

RIDGEWALK PARKWAY
STA. 114+29.70 TO STA. 115+58.91



TANGENT SECTION
TYPICAL SECTION #30

RIDGEWALK PARKWAY
STA. 115+58.91 TO STA. 117+26.62

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

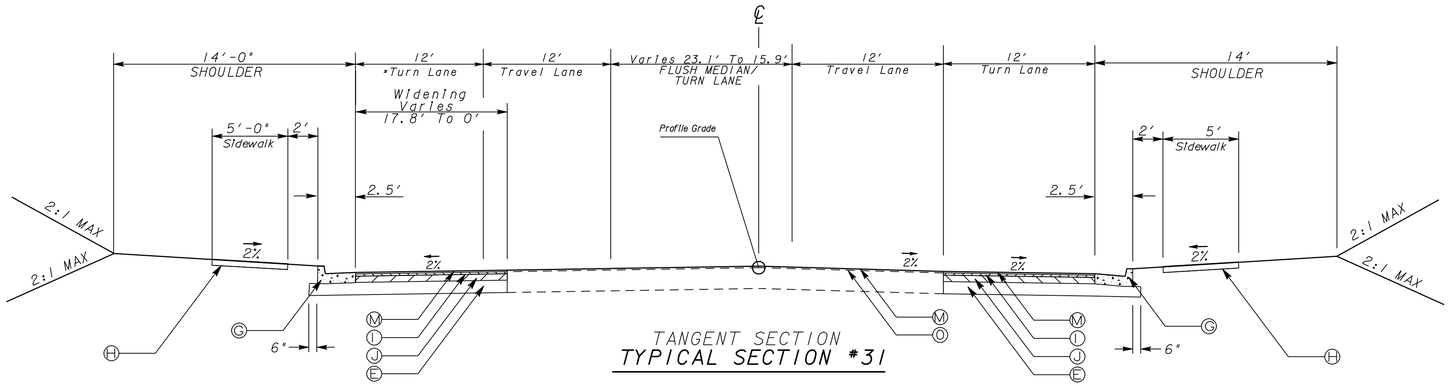
TYPICAL SECTIONS

DRAWING No. 5-011

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	21	668

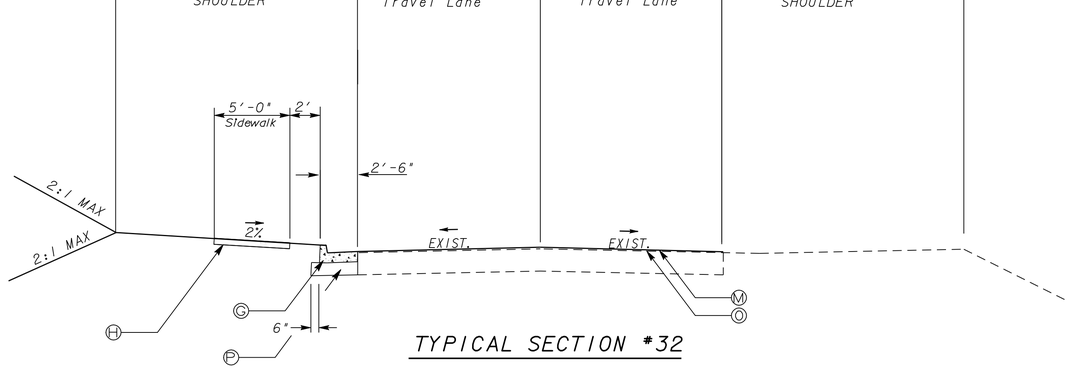
RELEASED FOR CONSTRUCTION 12/02/10



TANGENT SECTION
TYPICAL SECTION #31

RIDGEWALK PARKWAY
STA. 117+26.62 TO STA. 120+97.00

*RIGHT TURN LANE ENDS STA. 118+45.10

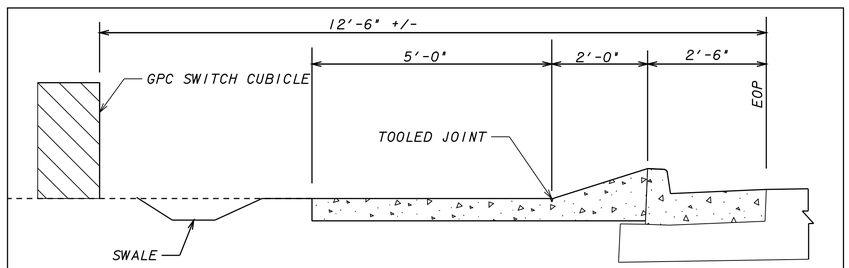


TYPICAL SECTION #32

RIDGEWALK PARKWAY
STA. 120+97.00.12 TO STA. 121+96.80

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE



SPECIAL SIDEWALK DETAIL
STA. 118+54.16 TO STA. 119+05.40
N.T.S.

THE LPA GROUP
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REVISION DATES

STATE OF GEORGIA
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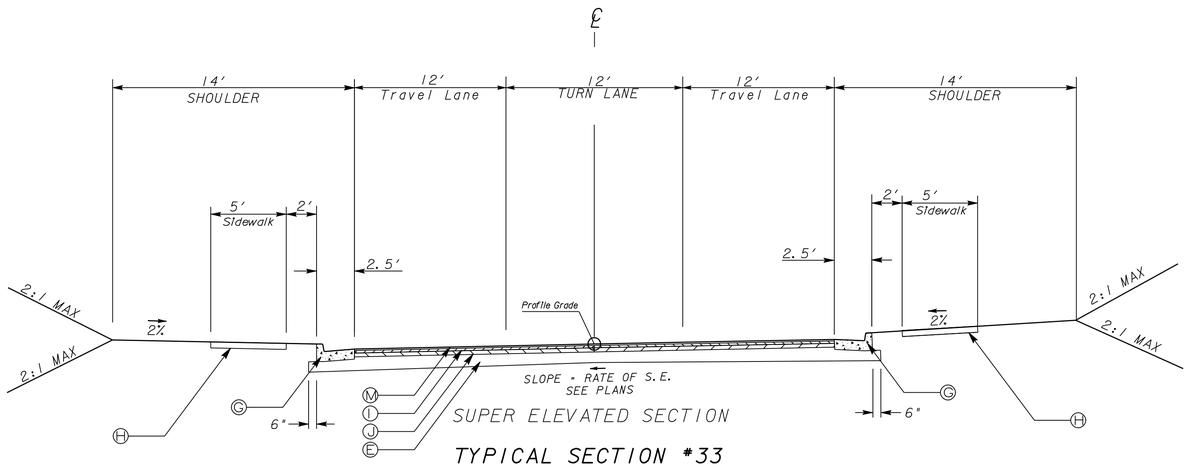
OFFICE: INNOVATIVE PROGRAM DELIVERY

TYPICAL SECTIONS

DRAWING No. 5-012

1/5/2009 GPLN

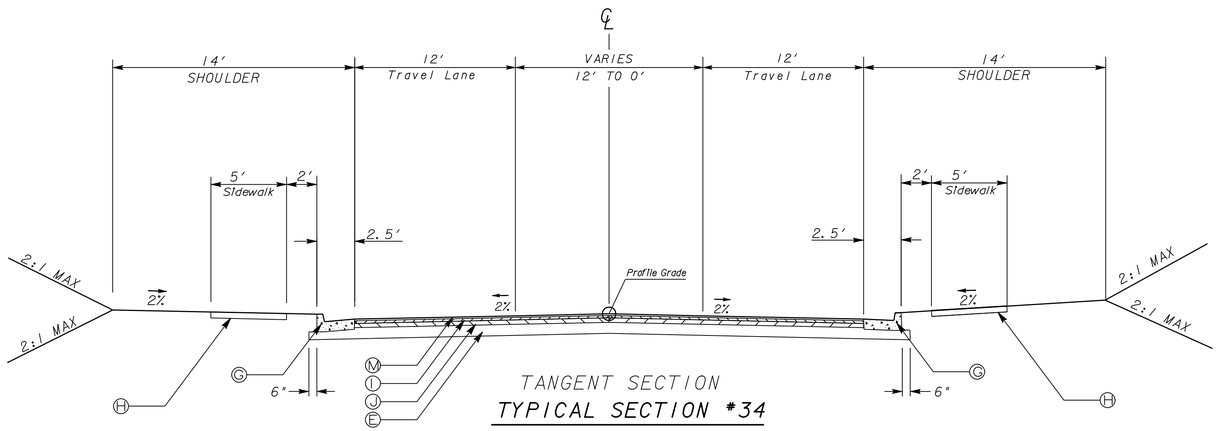
RELEASED FOR CONSTRUCTION 12/02/10



SUPER ELEVATED SECTION

TYPICAL SECTION #33

RELOC. ROPE MILL ROAD
SEE PLANS FOR LOCATIONS



TANGENT SECTION

TYPICAL SECTION #34

RELOC. ROPE MILL ROAD
STA. 201+52.42 TO STA. 204+03.10

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

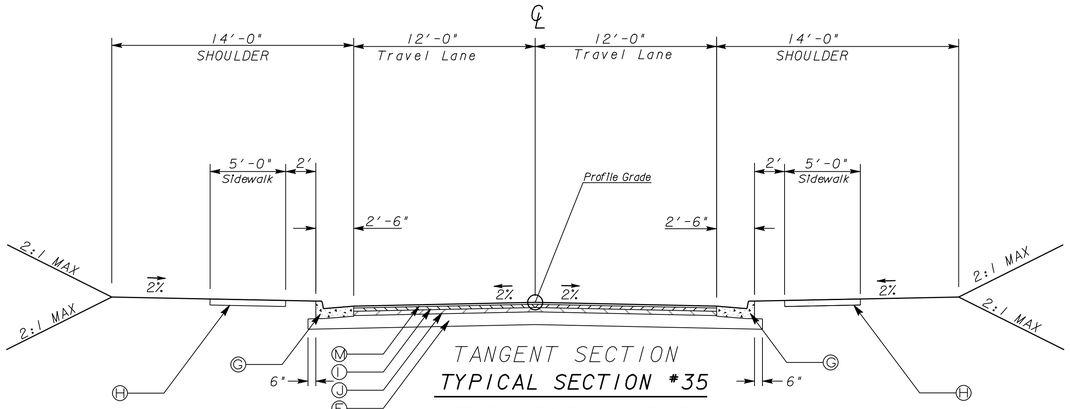
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

TYPICAL SECTIONS

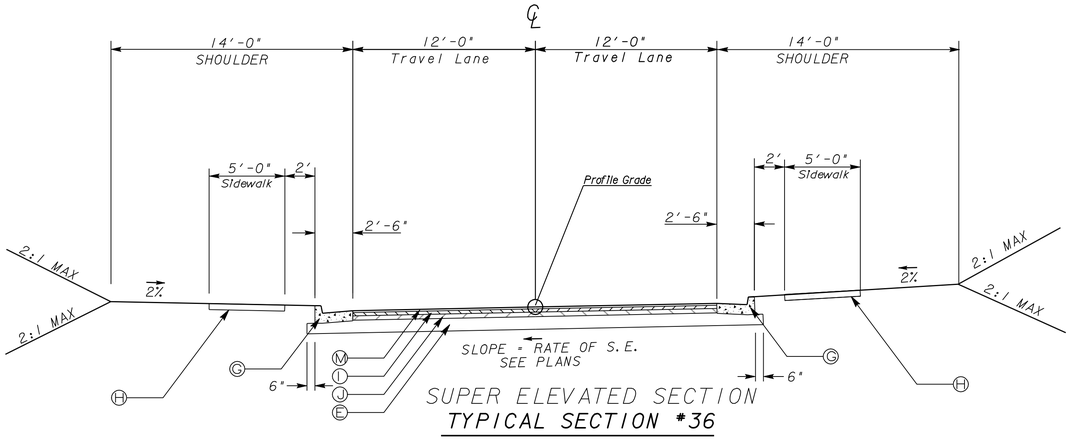
DRAWING No. 5-013

RELEASED FOR CONSTRUCTION 12/02/10



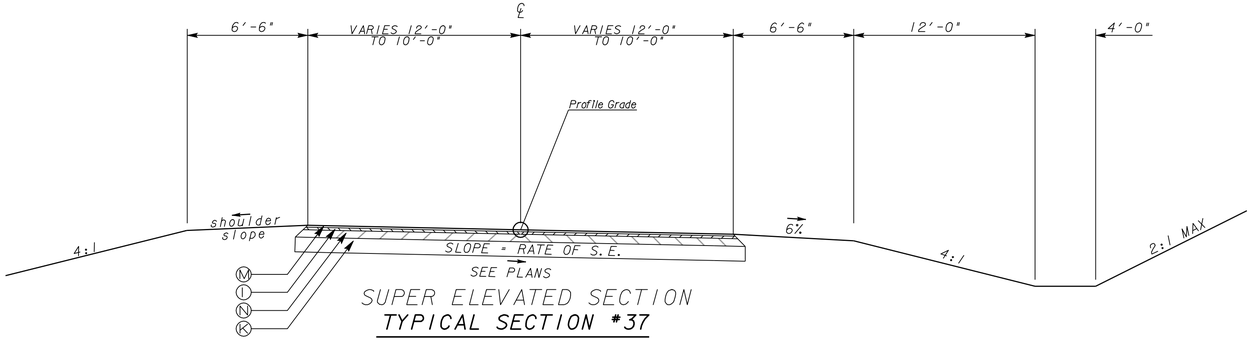
TANGENT SECTION
TYPICAL SECTION #35

RELOC. ROPE MILL ROAD
STA. 204+03.10 TO STA. 213+74.67
STA. 221+78.66 TO STA. 221+81.96



SUPER ELEVATED SECTION
TYPICAL SECTION #36

RELOC. ROPE MILL ROAD
SEE PLANS FOR LOCATIONS



SUPER ELEVATED SECTION
TYPICAL SECTION #37

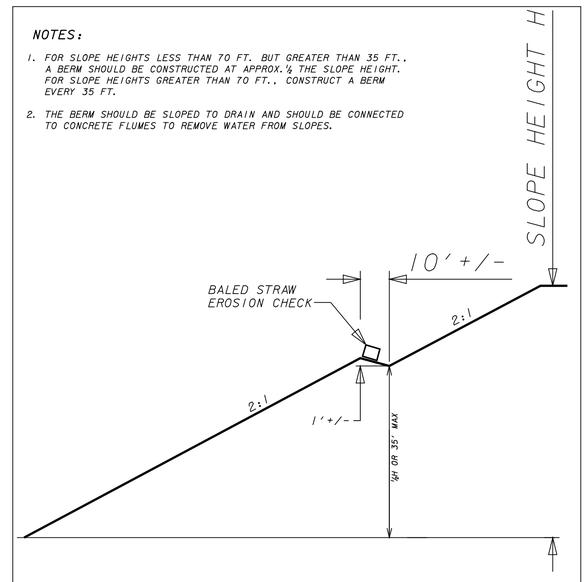
RELOC. ROPE MILL ROAD
SEE PLANS FOR LOCATIONS

REQUIRED PAVEMENT

- (A) ASPHALTIC CONC. 12.5 mm OGFC, GROUP 2, INCL POLYMER-MODIFIED, 90*/SY
- (B) ASPHALTIC CONCRETE 12.5 mm SMA, 165*/SY
- (C) ASPHALTIC CONCRETE 19 mm SUPERPAVE, 330*/SY
- (D) ASPHALTIC CONCRETE 25 mm SUPERPAVE, 880*/SY
- (E) GRADED AGGREGATE BASE, 12"
- (F) PLAIN PORTLAND CEMENT CONCRETE, 9"
- (G) 8"x30" CONC. CURB & GUTTER, GA. STD. 9032 B. TYPE 2
- (H) 4'x5' CONC. SIDEWALK, DETAIL A-3
- (I) ASPHALTIC CONCRETE 19mm SUPERPAVE, 220 lb/yd
- (J) ASPHALTIC CONCRETE 25mm SUPERPAVE, 440 lb/yd
- (K) GRADED AGGREGATE BASE, 10"
- (L) CONC MEDIAN PAVING, TYPE 7 CURB FACE, 6 IN
- (M) ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, 165*/SY
- (N) ASPHALTIC CONCRETE 25mm SUPERPAVE, 330 lb/yd
- (O) ASPHALTIC CONCRETE MILLING OR LEVELING AS REQD
- (P) GRADED AGGREGATE BASE, 8"
- (Q) CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE

NOTES:

1. FOR SLOPE HEIGHTS LESS THAN 70 FT. BUT GREATER THAN 35 FT., A BERM SHOULD BE CONSTRUCTED AT APPROX. ½ THE SLOPE HEIGHT. FOR SLOPE HEIGHTS GREATER THAN 70 FT., CONSTRUCT A BERM EVERY 35 FT.
2. THE BERM SHOULD BE SLOPED TO DRAIN AND SHOULD BE CONNECTED TO CONCRETE FLUMES TO REMOVE WATER FROM SLOPES.



BERM DETAIL FOR FILLS OVER 35 FEET

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

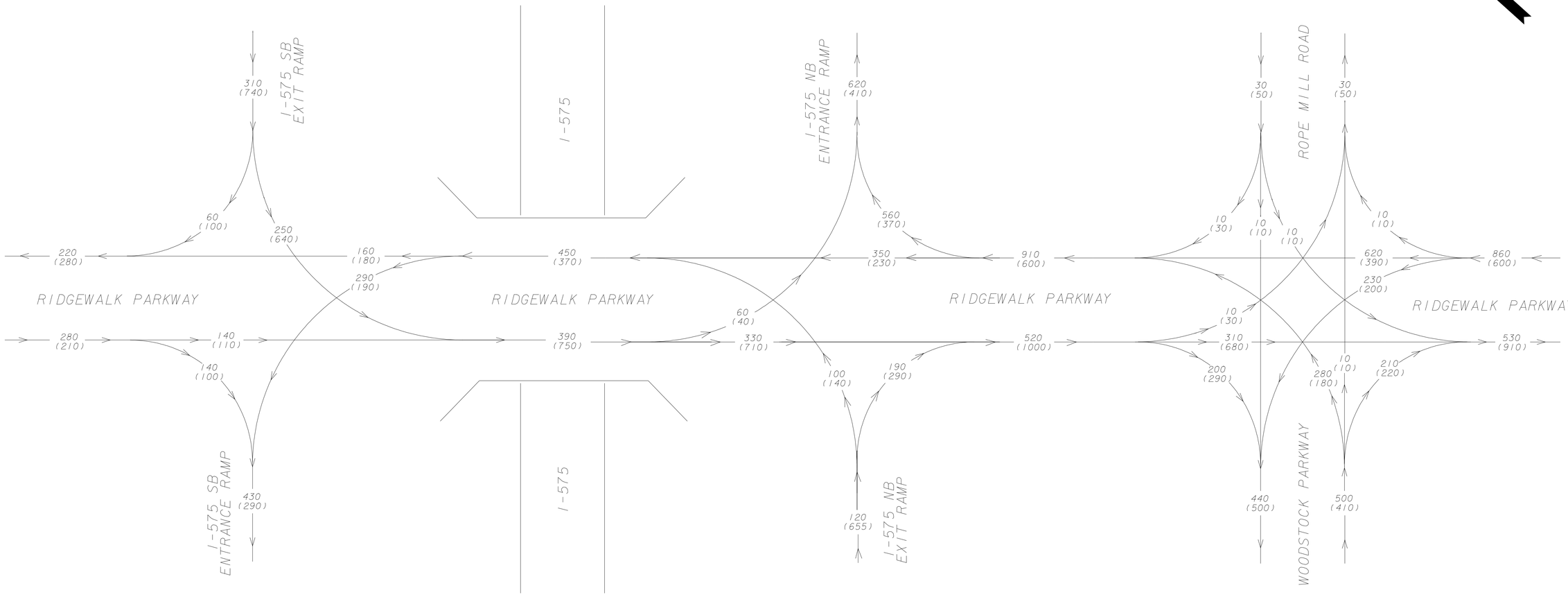
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

TYPICAL SECTIONS

DRAWING No. 5-014

RELEASED FOR CONSTRUCTION 12/02/10



2032 AM DHV = 000
2032 PM DHV = (000)

PEAK HOUR TRUCK = 3%
24 HOUR TRUCK = 5%

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

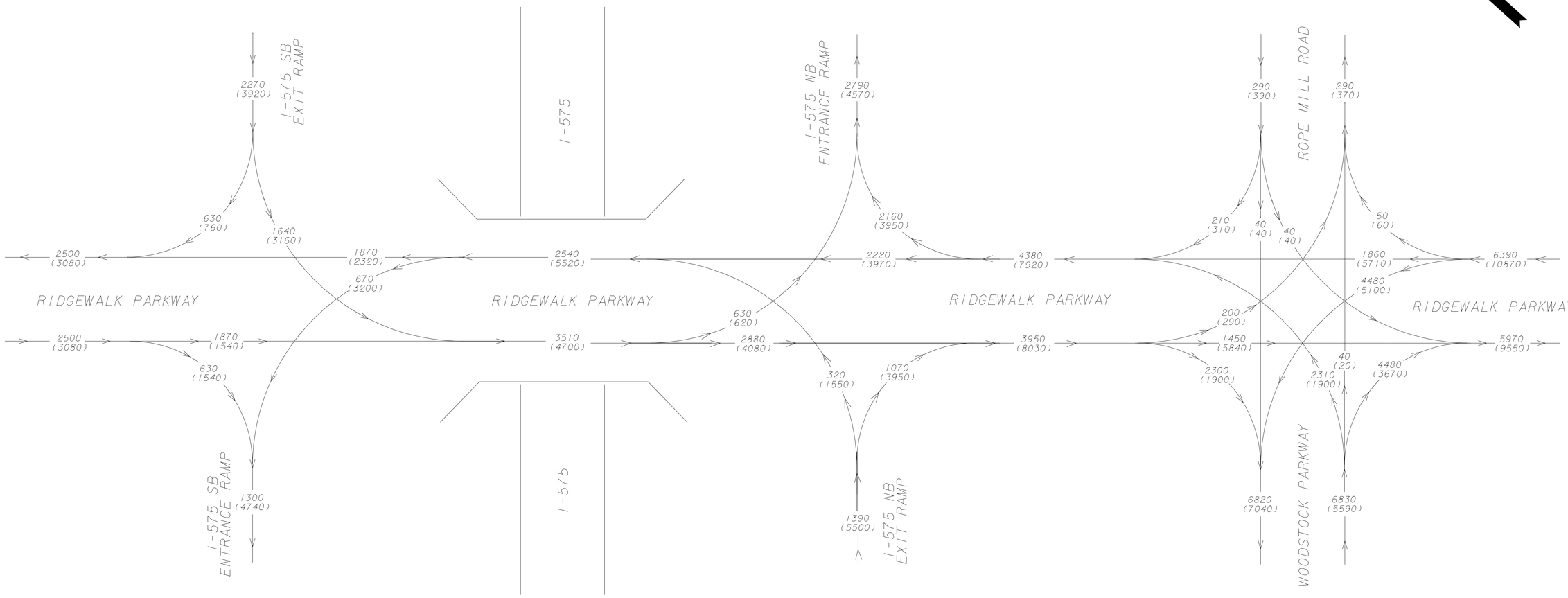
TRAFFIC DIAGRAM

2032 DESIGN HOURLY VOLUMES
RIDGEWALK PARKWAY
AT I-575 INTERCHANGE

DRAWING No. 10-001

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



2012 ADT = 000
2032 ADT = (000)

PEAK HOUR TRUCK = 3%
24 HOUR TRUCK = 5%

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

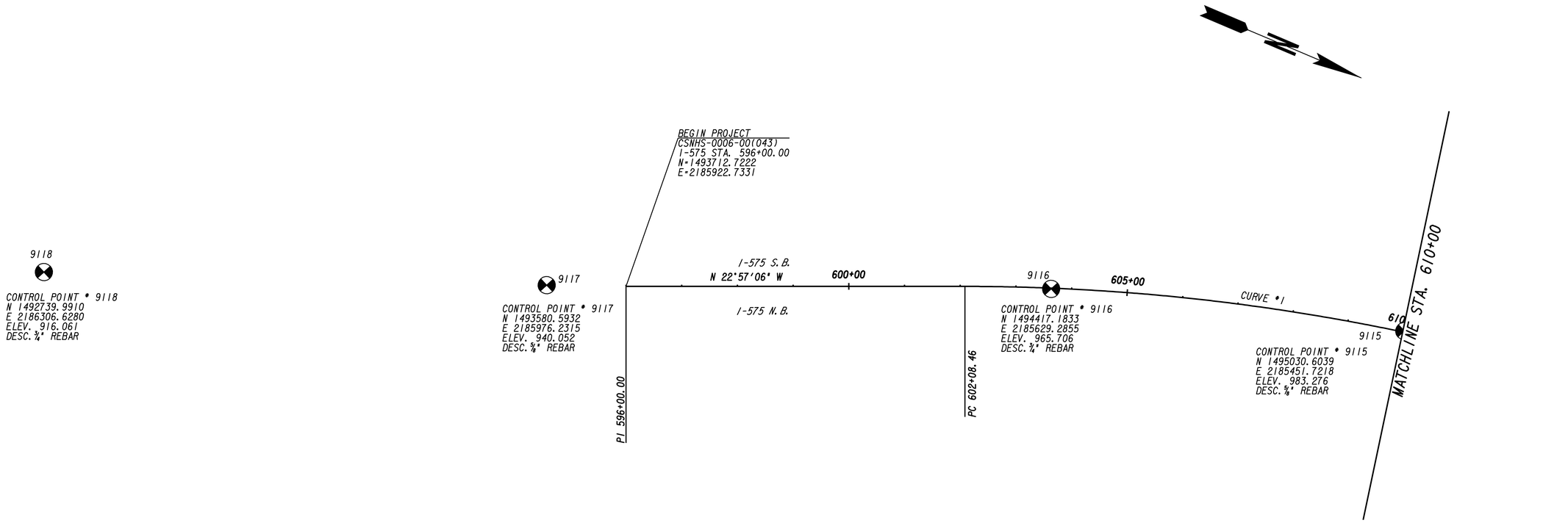
TRAFFIC DIAGRAM

2012/2032 AVERAGE DAILY TRAFFIC
RIDGEWALK PARKWAY
AT I-575 INTERCHANGE

DRAWING No. 10-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



CURVE *1		I-575
P.I. STA.	=	623+68.49
P.I.	= N	1496262.040
	= E	2184843.149
Δ	=	58°58'33"
D	=	1°30'00"
R	=	3819.72'
T	=	2160.03'
L	=	3931.72'
P.C. STA.	=	602+08.46
P.T. STA.	=	641+40.18

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 100 200 400

REVISION DATES

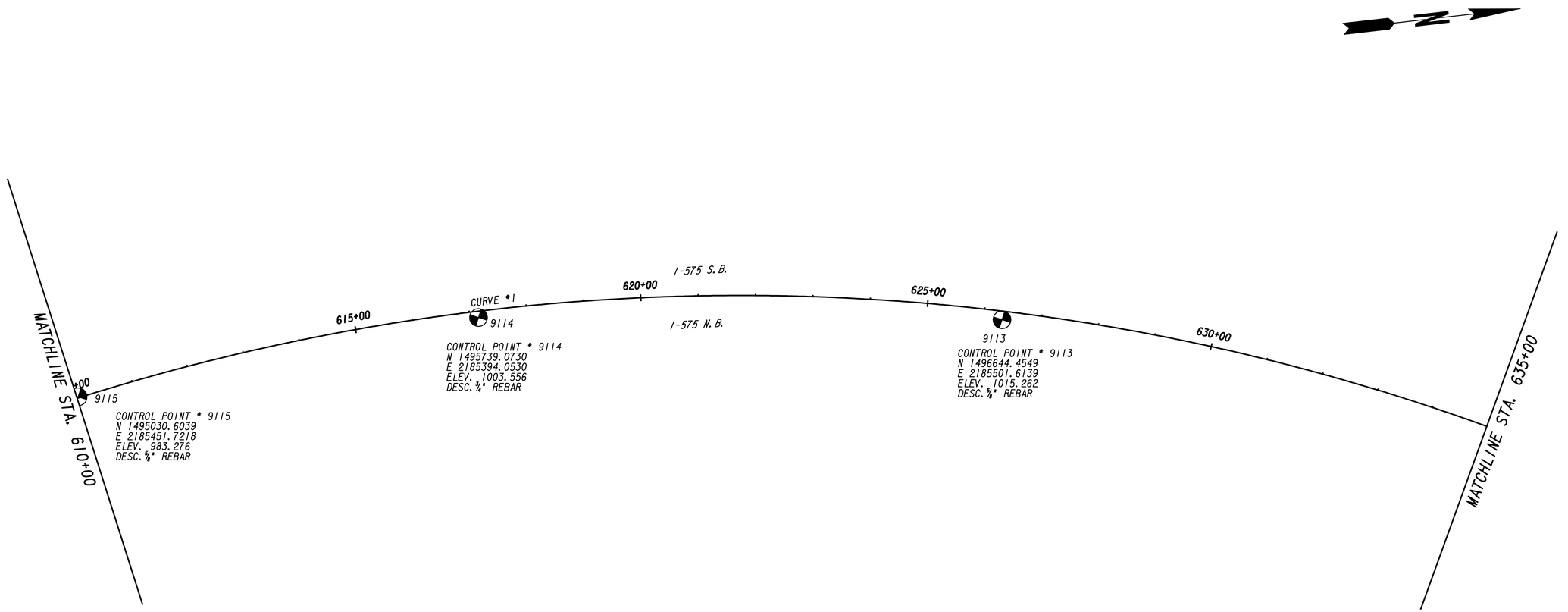
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION LAYOUT

DRAWING No.
11-001

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



CURVE #1		I-575
P.I. STA.	=	623+68.49
P.I.	= N	1496262.040
	= E	2184843.149
Δ	=	58°58'33"
D	=	1°30'00"
R	=	3819.72'
T	=	2160.03'
L	=	3931.72'
P.C. STA.	=	602+08.46
P.T. STA.	=	641+40.18

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

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

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SCALE IN FEET
0 100 200 400

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

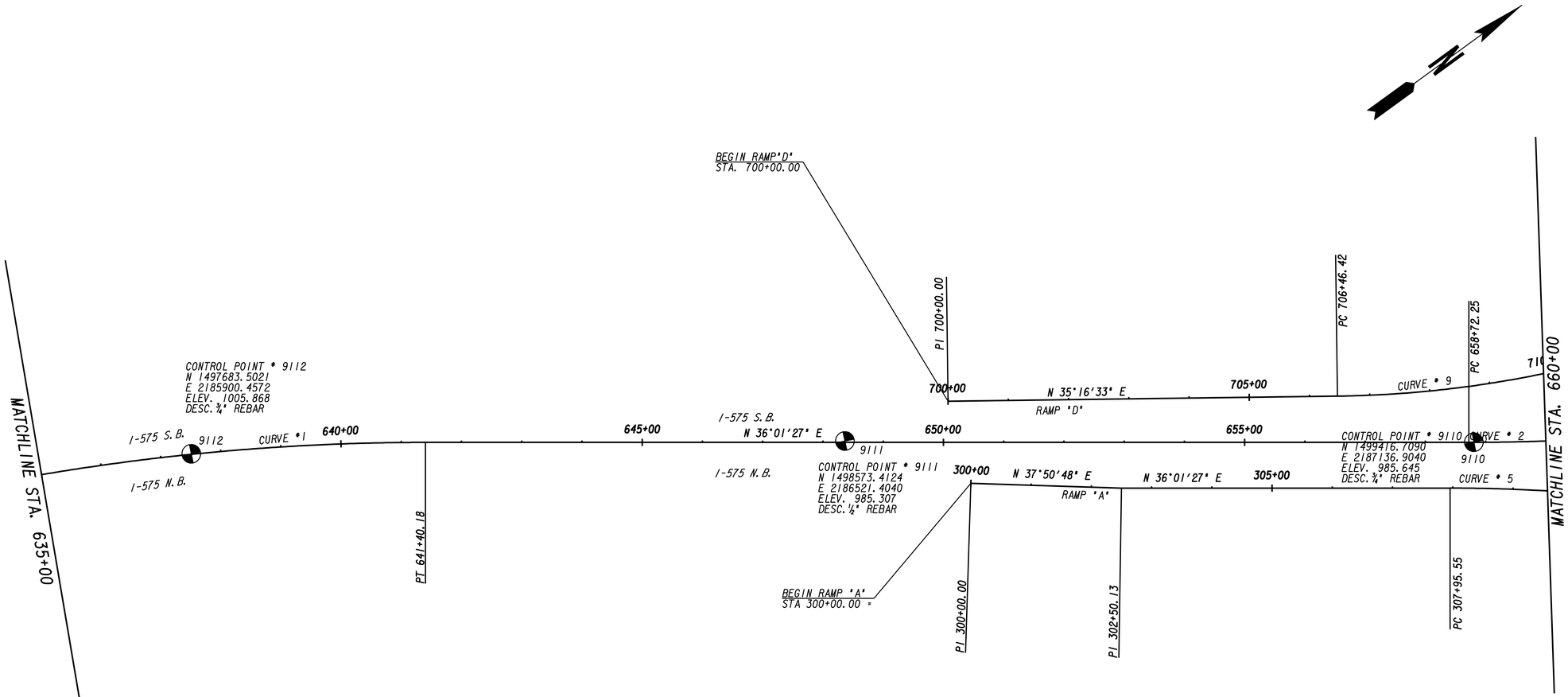
CONSTRUCTION LAYOUT

DRAWING No. 11-002

1/5/2009 GPLN

06-DEC-2010 10:21	TIME$$$	006043CL03	Y:\Roadways\07400004\006043\DGN\006043CL03.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	28	668

RELEASED FOR CONSTRUCTION 12/02/10



CURVE *1	I-575
P.I. STA.	623+68.49
P.I.	N 1496262.040
	E 2184843.149
Δ	58°58'33"
D	1°30'00"
R	3819.72'
T	2160.03'
L	3931.72'
P.C. STA.	602+08.46
P.T. STA.	641+40.18

CURVE *2	I-575
P.I. STA.	669+95.69
P.I.	N 1500318.451
	E 2187792.914
Δ	-32°46'43"
D	1°30'00"
R	3819.72'
T	1123.43'
L	2185.25'
P.C. STA.	658+72.25
P.T. STA.	680+57.50

CURVE *5	RAMP A
P.I. STA.	309+96.58
P.I.	N 1499502.495
	E 2187293.529
Δ	8°12'48"
D	2°02'47"
R	2800.00'
T	201.03'
L	401.38'
P.C. STA.	307+95.55
P.T. STA.	311+96.93
S.E. RATE	5.00%

CURVE *9	RAMP D
P.I. STA.	709+56.43
P.I.	N 1499531.538
	E 2187120.956
Δ	-19°32'40"
D	3°10'59"
R	1800.00'
T	310.01'
L	614.00'
P.C. STA.	706+46.42
P.T. STA.	712+60.42
S.E. RATE	6.00%

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

THE LPA GROUP
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3595 ENGINEERING DRIVE
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SCALE IN FEET
0 100 200 400

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION LAYOUT

DRAWING No.
11-003

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

RELEASED FOR CONSTRUCTION 12/02/10

1/5/2009 GPLN

CURVE *2	I-575
P. I. STA.	669+95.69
P. I. N	1500318.451
P. I. E	2187792.914
△	-32°46'43"
D	1°30'00"
R	3819.72'
T	1123.43'
L	2185.25'
P. C. STA.	658+72.25
P. T. STA.	680+57.50

CURVE *6	RAMP B
P. I. STA.	403+00.56
P. I. N	1500406.948
P. I. E	2188158.004
△	-57°11'26"
D	11°27'33"
R	500.00'
T	272.56'
L	499.08'
P. C. STA.	400+28.00
P. T. STA.	405+27.09
S. E. RATE	5.70%

CURVE *18 DRIVEWAY 'A'	
P. I. STA.	11+72.28
P. I. N	1500985.742
P. I. E	2187099.871
△	86°02'45"
D	48°45'45"
R	117.50'
T	109.66'
L	176.46'
P. C. STA.	10+62.62
P. T. STA.	12+39.08
S. E. RATE	NC

CURVE *9	RAMP D
P. I. STA.	709+56.43
P. I. N	1499531.538
P. I. E	2187120.956
△	-19°32'40"
D	3°10'59"
R	1800.00'
T	310.01'
L	614.00'
P. C. STA.	706+46.42
P. T. STA.	712+60.42
S. E. RATE	6.00%

CURVE *8	RAMP C
P. I. STA.	504+26.36
P. I. N	1500991.815
P. I. E	2187690.500
△	-24°40'33"
D	4°46'29"
R	1120.00'
T	262.47'
L	516.81'
P. C. STA.	501+63.89
P. T. STA.	506+80.70
S. E. RATE	6.00%

CURVE *5	RAMP A
P. I. STA.	309+96.58
P. I. N	1499502.495
P. I. E	2187293.529
△	8°12'48"
D	2°02'47"
R	2800.00'
T	201.03'
L	401.38'
P. C. STA.	307+95.55
P. T. STA.	311+96.93
S. E. RATE	5.00%

CURVE *7	RAMP B
P. I. STA.	411+26.68
P. I. N	1501248.708
P. I. E	2187929.797
△	18°24'51"
D	2°53'11"
R	1985.00'
T	321.75'
L	637.96'
P. C. STA.	408+04.92
P. T. STA.	414+42.88
S. E. RATE	6.00%

CURVE *10	RAMP D
P. I. STA.	719+88.65
P. I. N	1500530.887
P. I. E	2187402.455
△	16°16'13"
D	8°03'31
R	711.00'
T	101.64'
L	201.90'
P. C. STA.	718+87.01
P. T. STA.	720+88.92
S. E. RATE	2.00%

CURVE *16 RELOC. ROPE MILL ROAD	
P. I. STA.	217+83.20
P. I. N	1501535.772
P. I. E	2188490.057
△	-26°47'39"
D	3°49'11"
R	1500.00'
T	357.27'
L	701.47'
P. C. STA.	214+25.93
P. T. STA.	221+27.40
S. E. RATE	2.65%

CONTROL POINT • SVX0657
N 1501156.900
E 2187293.419
ELEV. 1026.242
DESC. LOCATION CONTROL DELTA

CONTROL POINT • 9109
N 1500392.1023
E 2187640.8948
ELEV. 985.948
DESC. ½" REBAR

CONTROL POINT • 9108
N 1501512.0230
E 2187861.1029
ELEV. 961.084
DESC. ¾" REBAR

CONTROL POINT • SVX0554
N 1500817.513
E 2188393.638
ELEV. 972.390
DESC. LOCATION CONTROL DELTA

LIMIT OF CONSTRUCTION
DRIVEWAY 'A'
STA. 10+00.00

PI 10+00.00

CURVE • 18 DRIVEWAY 'A'

11+00

12+00

PT 12+39.08

N 6°14'10.5" W 28.29'

PC 10+62.62

CONTROL POINT • SVX0323
N 1500773.568
E 2187307.516
ELEV. 1013.000
DESC. NAIL

RIDGEWALK PKWY.

N 79°48'34.4" E

RIDGEWALK PARKWAY
STA. 104+06.32 =
DRIVEWAY 'A'
STA. 12+75.51
< = 88°03'05.82"

SVX0657

PC 102+10.43

S 3°38'30" W

100+00

SVX0345

CONTROL POINT • SVX0345
N 1501347.565
E 2187253.113
ELEV. 1014.890
DESC. LOCATION CONTROL DELTA

PT 99+82.15

CURVE • 11

PC 98+06.70

PI 97+39.87

PI 96+79.68

S 12°11'21" E

S 10°46'23" E

BEGIN PROJECT
CSNHS-0006-00(043)
RIDGEWALK PKWY
STA. 96+89.12

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB ENTRANCE RAMP 'D'
STA. 721+04.45
< = 79°47'13.39"

SVX0323

RIDGEWALK PKWY.

CURVE • 12

105+00

PT 720+88.92

PC 501+63.89

PT 712+60.42

MATCHLINE STA. 660+00

660+00

CURVE • 9

SVX0488
CONTROL POINT • SVX0488
N 1499767.513
E 2187185.382
ELEV. 971.750
DESC. LOCATION CONTROL DELTA

715+00

N 15°43'54" E

RAMP 'D'

CURVE • 10

720+00

SVX0651
CONTROL POINT • SVX0651
N 1500119.605
E 2187318.351
ELEV. 981.396
DESC. LOCATION CONTROL DELTA

BEGIN BRIDGE
STA 110+15.10

PC 718+87.01

500+00

N 32°00'08" E

N 32°00'07" E

PT 108+48.60

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB EXIT RAMP 'C'
STA. 500+00.00
< = 79°47'14.19"

I-575 SOUTHBOUND

CURVE • 8

505+00

PT 506+80.70

RAMP 'C'

PT 680+57.50

510+00

N 7°19'35" E

MATCHLINE STA. 685+00

680+00

9108

N 3°14'43" E

310+00

CURVE • 5

665+00

SVX0417
CONTROL POINT • SVX0417
N 1499741.257
E 2187433.515
ELEV. 990.000
DESC. NAIL

CURVE • 2

670+00

9109

110+00

I-575 NORTHBOUND

675+00

415+00

N 2°00'09" E

RAMP 'B'

CURVE • 7

END BRIDGE
STA 112+39.10

RIDGEWALK PARKWAY
STA. 111+27.10 =
I-575 STA. 670+43.65
< = 66°14'18.21"

PT 405+27.09

PT 411+22.88

PT 221+27.40

MATCHLINE STA. 222+00

N 44°14'14" E

RAMP 'A'

315+00

PT 311+96.93

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP 'A'
STA. 319+46.65
< = 87°58'38.76"

PC 400+28.00

S 47°47'07" E

CONTROL POINT • SVX0301
N 1500359.000
E 2188035.501
ELEV. 1003.040
DESC. LOCATION CONTROL DELTA

SVX0301

CURVE • 6

405+00

RAMP 'B'

N 15°10'07" W

SVX0700

CONTROL POINT • SVX0700
N 1500877.010
E 2188086.977
ELEV. 958.756
DESC. LOCATION CONTROL DELTA

PC 408+04.92

CONTROL POINT • SVX0615
N 1501598.472
E 2188387.962
ELEV. 903.600
DESC. LOCATION CONTROL DELTA

SVX0615

220+00

N 26°47'39" W

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP 'B'
STA. 400+00.00
< = 89°48'22.75"

PT 116+60.46

PC 115+36.56

CURVE • 13

N 42°01'19" E

SVX0312
CONTROL POINT • SVX0312
N 1500174.455
E 2188010.214
ELEV. 1006.280
DESC. NAIL

S 46°36'07" E

PC 214+25.93

CURVE • 16

215+00

CONTROL POINT • SVX0609
N 1500569.447
E 2188341.458
ELEV. 969.033
DESC. LOCATION CONTROL DELTA

SVX0609

SVX0554

MATCHLINE STA. 119+00
SEE DRAWING NO. 11-007

MATCHLINE STA. 210+00
SEE DRAWING NO. 11-007

N 0°00'00" E

RELOC. ROPE MILL ROAD

SEE DRAWING NO. 11-007 FOR CURVE DATA FOR CURVES 11, 12 AND 13.

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

THE LPA GROUP
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SCALE IN FEET
0 100 200 400

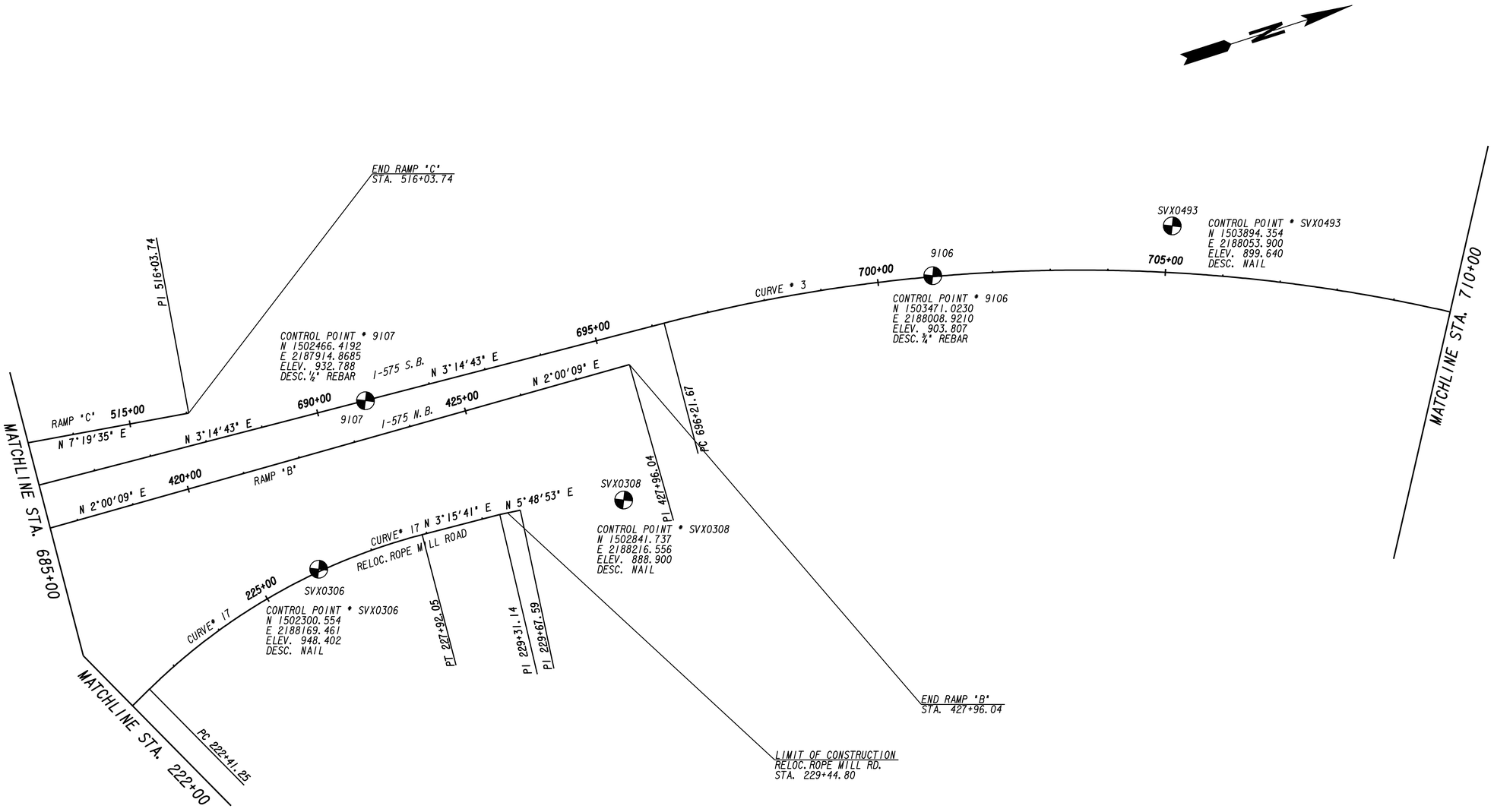
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION LAYOUT

DRAWING No. 11-004

RELEASED FOR CONSTRUCTION 12/02/10



CURVE *3		I-575
P. I. STA.	=	705+30.02
P. I.	= N	1503908.635
	= E	2187996.490
△	=	35°00'38"
D	=	1°59'22"
R	=	2880.00'
T	=	908.35'
L	=	1759.82'
P. C. STA.	=	696+21.67
P. T. STA.	=	713+81.49

CURVE *17 RELOC. ROPE MILL ROAD		
P. I. STA.	=	225+23.15
P. I.	= N	1502207.937
	= E	2188150.606
△	=	30°03'21"
D	=	5°27'24"
R	=	1050.00'
T	=	281.89'
L	=	550.80'
P. C. STA.	=	222+41.25
P. T. STA.	=	227+92.05
S. E. RATE	=	3.05%

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

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

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SCALE IN FEET
0 100 200 400

REVISION DATES

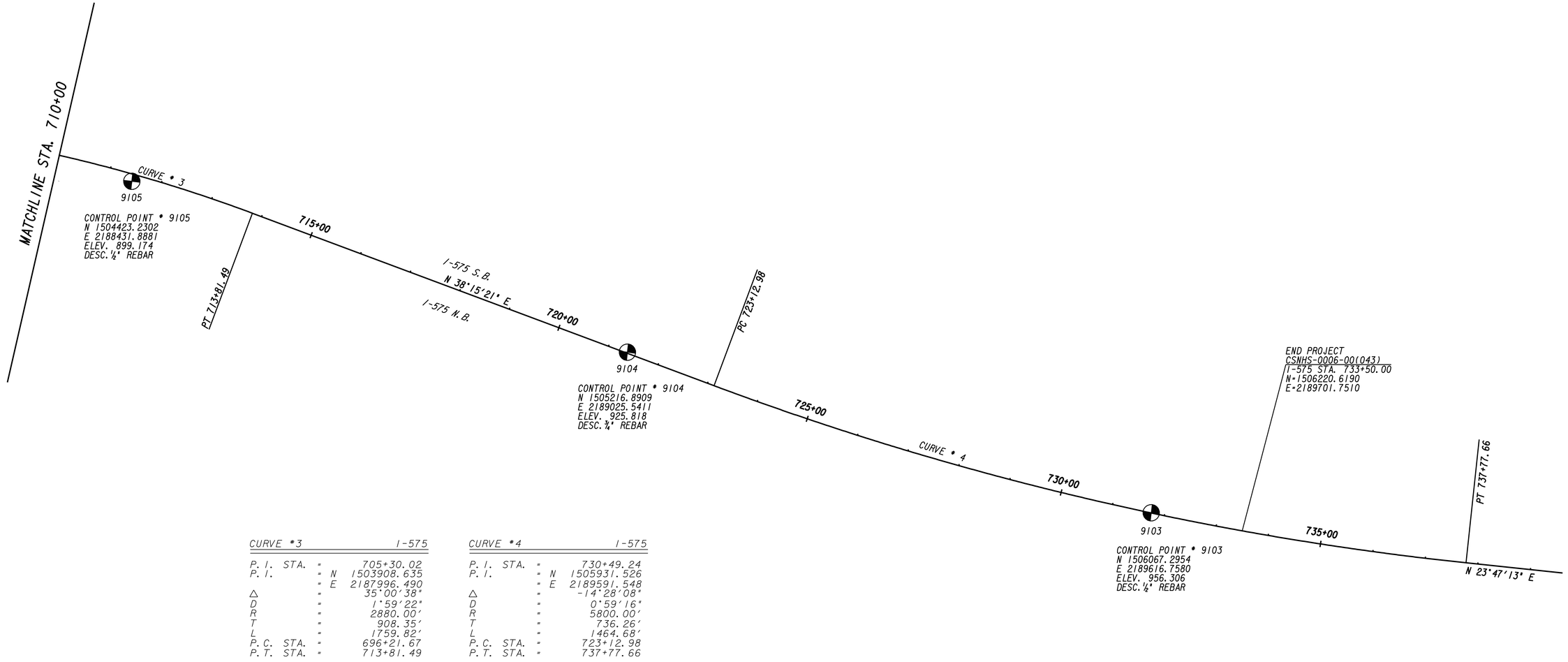
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION LAYOUT

DRAWING No. 11-005

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



CURVE *3		I-575
P.I. STA.	=	705+30.02
P.I.	= N	1503908.635
	= E	2187996.490
△	=	35°00'38"
D	=	1°59'22"
R	=	2880.00'
T	=	908.35'
L	=	1759.82'
P.C. STA.	=	696+21.67
P.T. STA.	=	713+81.49

CURVE *4		I-575
P.I. STA.	=	730+49.24
P.I.	= N	1505931.526
	= E	2189591.548
△	=	-14°28'08"
D	=	0°59'16"
R	=	5800.00'
T	=	736.26'
L	=	1464.68'
P.C. STA.	=	723+12.98
P.T. STA.	=	737+77.66

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 100 200 400

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION LAYOUT

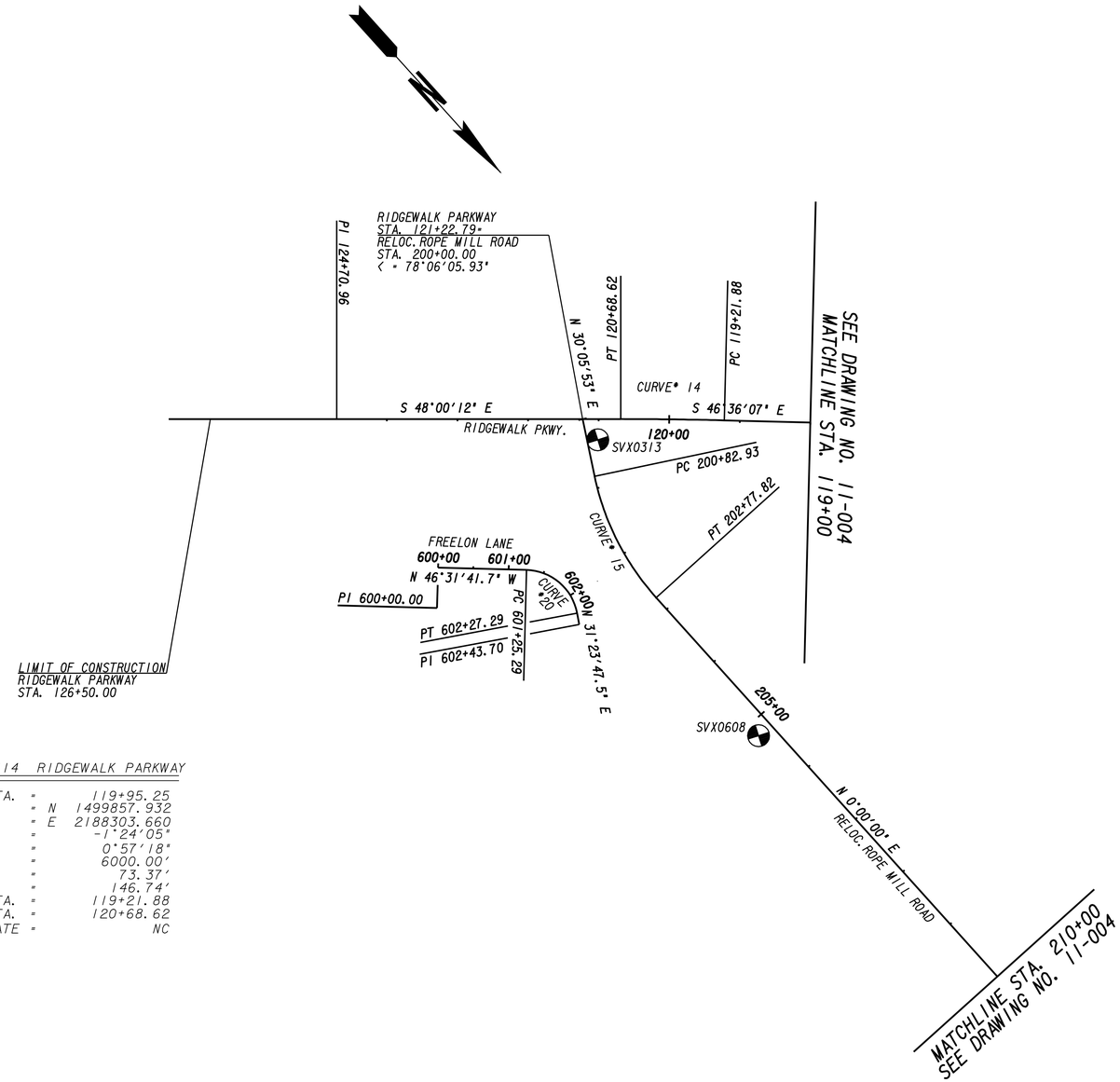
DRAWING No. 11-006

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

CONTROL POINT * SVX0313
N 1499808.939
E 2188402.053
ELEV. 990.210
DESC. LOCATION CONTROL DELTA

CONTROL POINT * SVX0608
N 1500273.497
E 2188513.517
ELEV. 1000.601
DESC. LOCATION CONTROL DELTA



CURVE *11 RIDGEWALK PARKWAY

P.I. STA.	=	98+94.98
P.I.	= N	1501522.074
	= E	2187248.250
△	=	15°49'51"
D	=	9°01'23"
R	=	635.00'
T	=	88.29'
L	=	175.45'
P.C. STA.	=	98+06.70
P.T. STA.	=	99+82.15
S.E. RATE	=	MATCH EXIST.

CURVE *12 RIDGEWALK PARKWAY

P.I. STA.	=	105+52.82
P.I.	= N	1500864.449
	= E	2187206.395
△	=	-51°25'37"
D	=	8°03'31"
R	=	711.00'
T	=	342.39'
L	=	638.17'
P.C. STA.	=	102+10.43
P.T. STA.	=	108+48.60
S.E. RATE	=	4.00%

CURVE *13 RIDGEWALK PARKWAY

P.I. STA.	=	115+98.52
P.I.	= N	1500130.518
	= E	2188015.388
△	=	1°10'59"
D	=	0°57'18"
R	=	6000.00'
T	=	61.95'
L	=	123.90'
P.C. STA.	=	115+36.56
P.T. STA.	=	116+60.46
S.E. RATE	=	NC

CURVE *14 RIDGEWALK PARKWAY

P.I. STA.	=	119+95.25
P.I.	= N	1499857.932
	= E	2188303.660
△	=	-1°24'05"
D	=	0°57'18"
R	=	6000.00'
T	=	73.37'
L	=	146.74'
P.C. STA.	=	119+21.88
P.T. STA.	=	120+68.62
S.E. RATE	=	NC

CURVE *15 RELOC. ROPE MILL ROAD

P.I. STA.	=	201+82.68
P.I.	= N	1499930.641
	= E	2188490.057
△	=	-30°05'53"
D	=	15°26'37
R	=	371.00'
T	=	99.75'
L	=	194.89'
P.C. STA.	=	200+82.93
P.T. STA.	=	202+77.82
S.E. RATE	=	NC

CURVE *20 FREELON LANE

P.I. STA.	=	601+85.94
P.I.	= N	1499919.990
	= E	2188556.315
△	=	77°55'29.2"
D	=	76°23'39.7"
R	=	75.00'
T	=	60.65'
L	=	102.00'
P.C. STA.	=	601+25.29
P.T. STA.	=	602+27.29
S.E. RATE	=	NC

SEE DRAWING NO. 11-004 FOR LOCATION OF CURVES 11, 12 AND 13.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 100 200 400

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION LAYOUT

DRAWING No. 11-007

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

EXIST. R/W & L/A

BEGIN SOUND BARRIER WALL
STA 596+11.73
223.52' LT

SOUND BARRIER

INTERMITTENT STREAM #1A

ORANGE BARRIER FENCE

S-1

18" RCP

30"x36" OVAL RCP

MATCH LINE STA. 601+00

ASPHALTIC CONCRETE SPILLWAY (TYPE 3)

BEGIN CONCRETE SIDE BARRIER TYPE 7-RS
STA 599+60.64
107.31' LT

BEGIN PAVED SHOULDER
STA. 599+41.21

BEGIN PROJECT
CSNHS-0006-00(043)
I-575 STA. 596+00.00
N=1493712.7222
E=2185922.7331

I-575 S.B.

596+00 | 597+00 | 598+00 | 599+00 | 600+00

CONST. ℄ I-575

N 22°57'06" W

EXISTING CABLE BARRIER

I-575 N.B.

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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

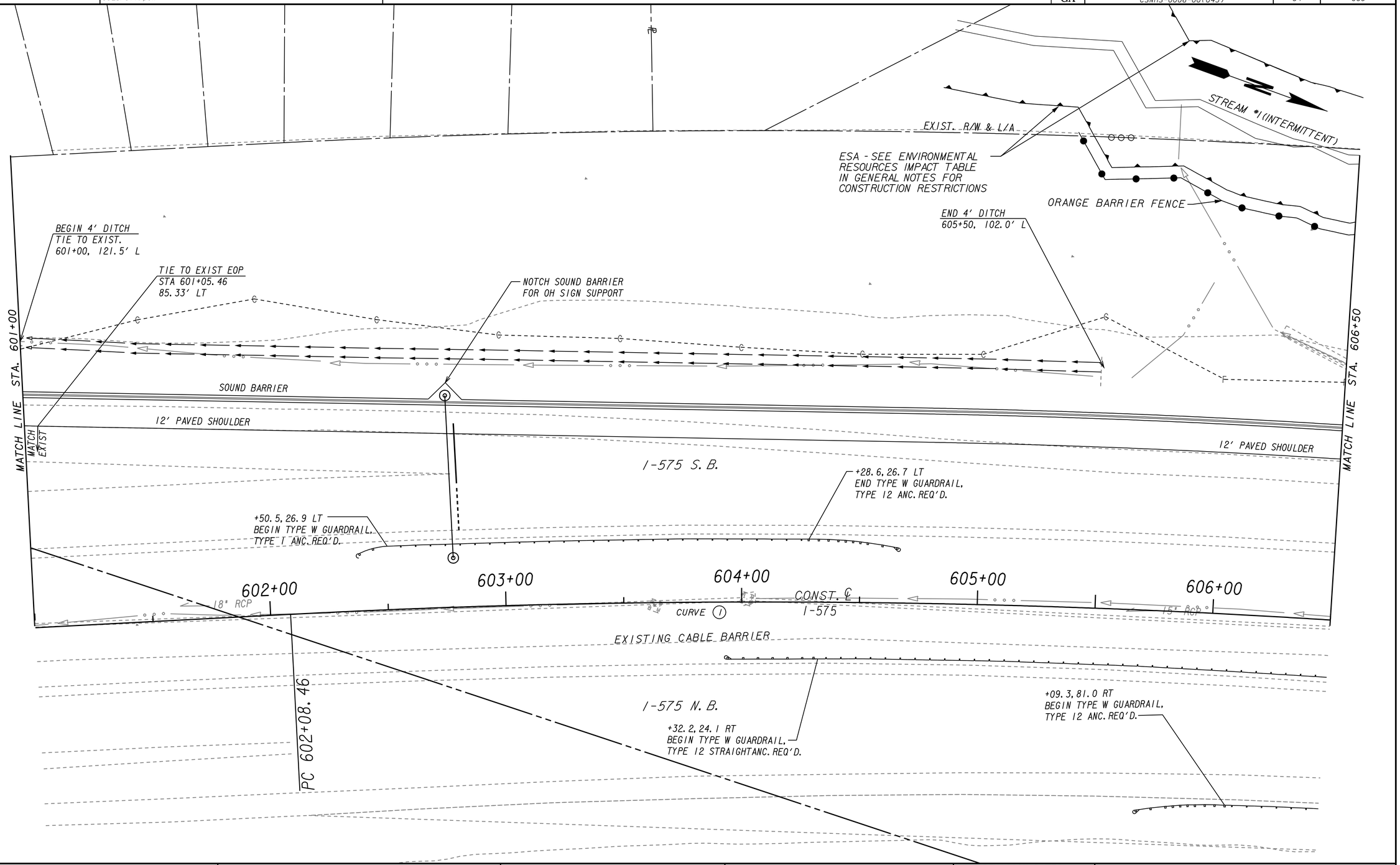
I-575 SB AUXILIARY LANE
BEGIN PROJECT TO STA. 601+00

DRAWING No. 13-001

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	34	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

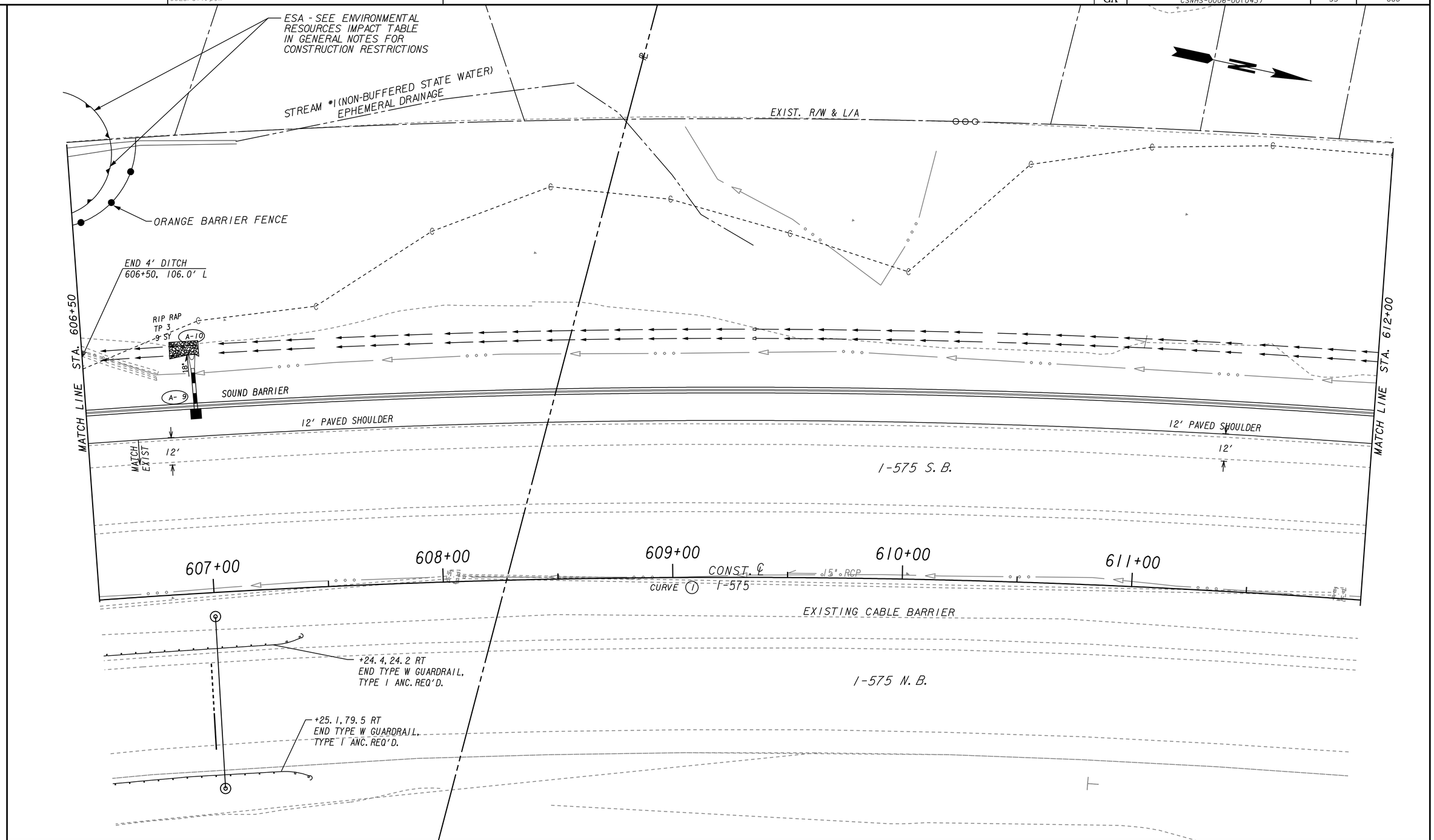
MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 601+00 TO STA. 606+50

DRAWING No. 13-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 606+50 TO STA. 612+50

DRAWING No.: 13-003

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	36	668

RELEASED FOR CONSTRUCTION 12/02/10

END 4' DITCH
TIE TO EXIST
614+46, 118.5' L

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

STREAM #3 (PERENNIAL)

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

RIP RAP TP 3 9 SY

DITCH HIGH POINT

A-11

RIP RAP TP 3 9 SY

18"

ORANGE BARRIER FENCE

A-1

SOUND BARRIER

MATCH LINE STA. 612+00

MATCH LINE STA. 617+50

12' PAVED SHOULDER

12'

12'

I-575 S.B.

4' X 5' BOX CULVERT

15" RCP

613+00

614+00

615+00

616+00

617+00

CONST. ℄
I-575 CURVE 1

EXISTING CABLE BARRIER

I-575 N.B.

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

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 612+00 TO STA. 617+50

DRAWING No. 13-004

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

EXIST. R/W & L/A

PERENNIAL STREAM 3A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

RIP RAP TP 3 14 SY

A- 2

RIP RAP TP 3 8 SY

A- 3

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

42"

18"

PIPE COLLAR

PIPE COLLAR

MATCH LINE STA. 617+50

SOUND BARRIER

A- 4

12' PAVED SHOULDER

12'

15" RCP

I-575 S.B.

12'

MATCH LINE STA. 623+00

618+00

619+00

620+00

621+00

622+00

CONST. ℄ I-575

CURVE (1)

EXISTING CABLE BARRIER

I-575 N.B.

42" RCP

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

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

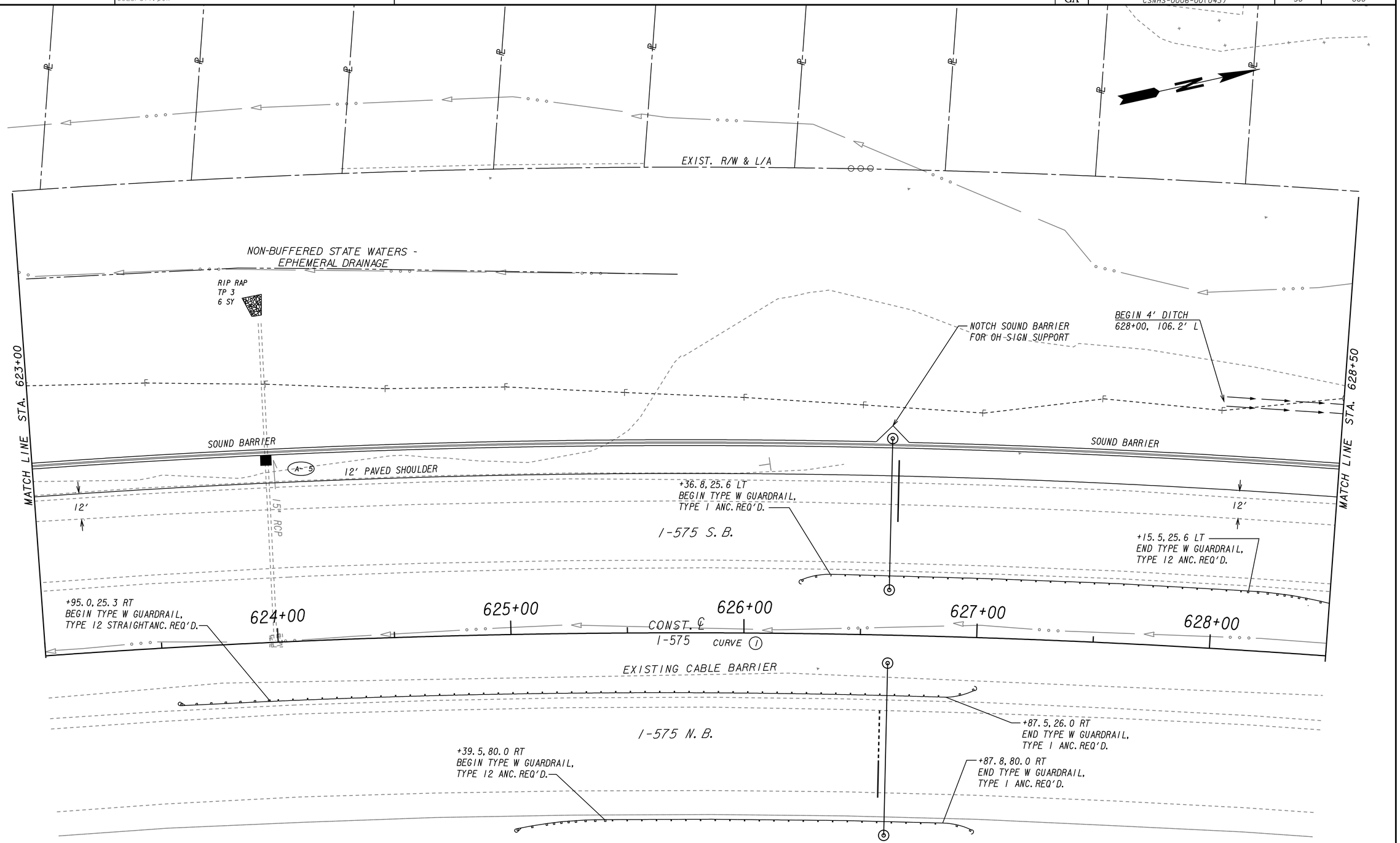
MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 617+50 TO STA. 623+00

DRAWING No. 13-005

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

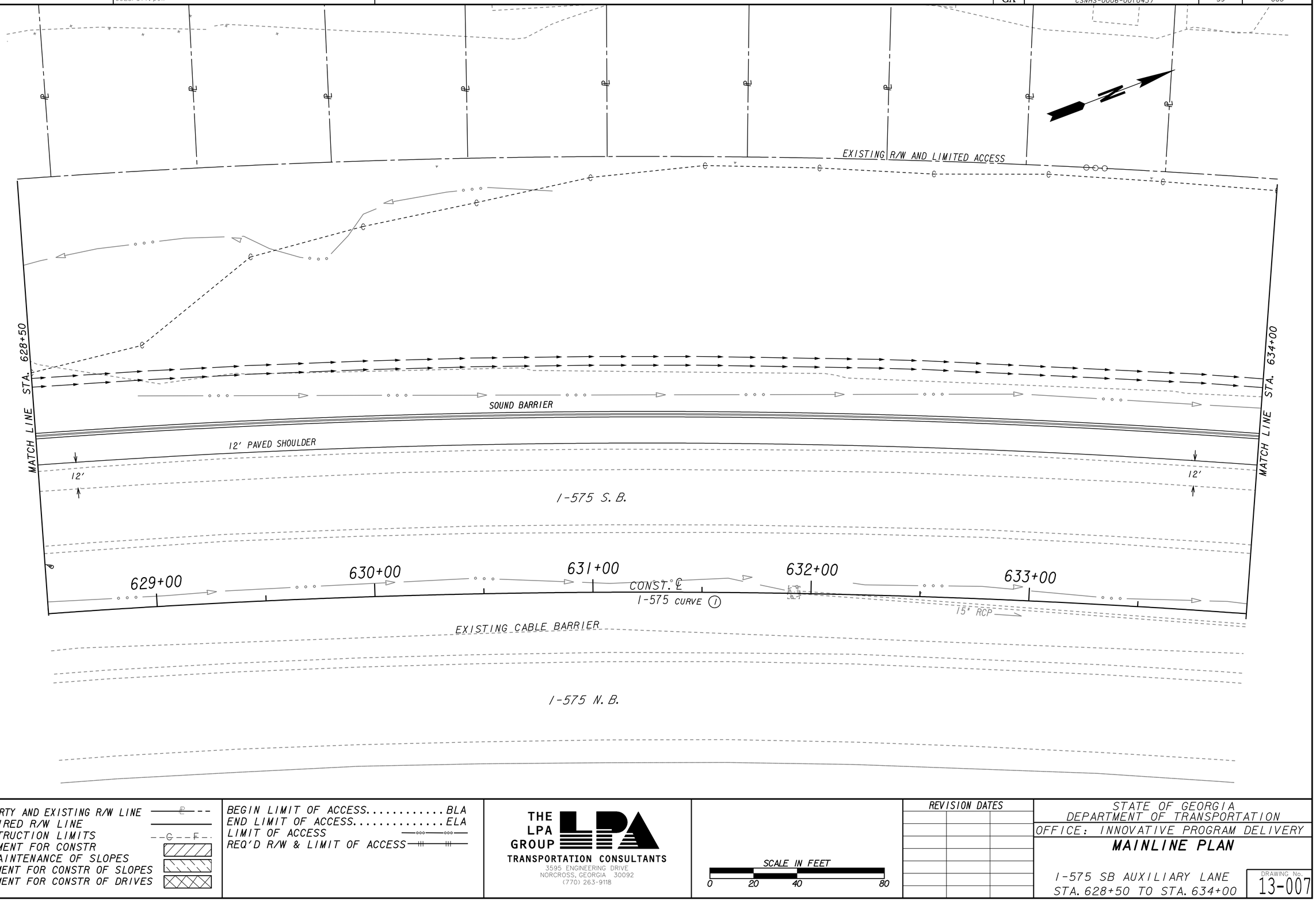
I-575 SB AUXILIARY LANE
STA. 623+00 TO STA. 628+50

DRAWING No. 13-006

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	39	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 628+50 TO STA. 634+00

DRAWING No. 13-007

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	40	668

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

MATCH LINE STA. 634+00

MATCH LINE STA. 639+50

END 4' DITCH
637+50, 106.2' L

SOUND BARRIER

12' PAVED SHOULDER

12'

12'

I-575 S.B.

635+00

636+00

637+00

638+00

639+00

CONST. ℄
I-575 CURVE -1-

15" RCP

15" RCP

EXISTING CABLE BARRIER

I-575 N.B.

LL 927

LL 874

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 13-008

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

MATCH LINE STA. 639+50

RIP RAP
TP 3
6 SY

SOUND BARRIER

12' PAVED SHOULDER

12'

A- 6

15" RCP

I-575 S.B.

BEGIN 4' DITCH
643+00, 106.2' L

END 4' DITCH
TIE TO EXIST.
644+31, 106.2' L

CONCRETE FLUME

MATCH LINE STA. 645+00

BEG NC
+50.0
2.0%

15" RCP

640+00 641+00 642+00 643+00 644+00

CURVE (1)

N 36°01'27" E CONST. ℄
I-575

EXISTING CABLE BARRIER

PT 641+40.18

I-575 N.B.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

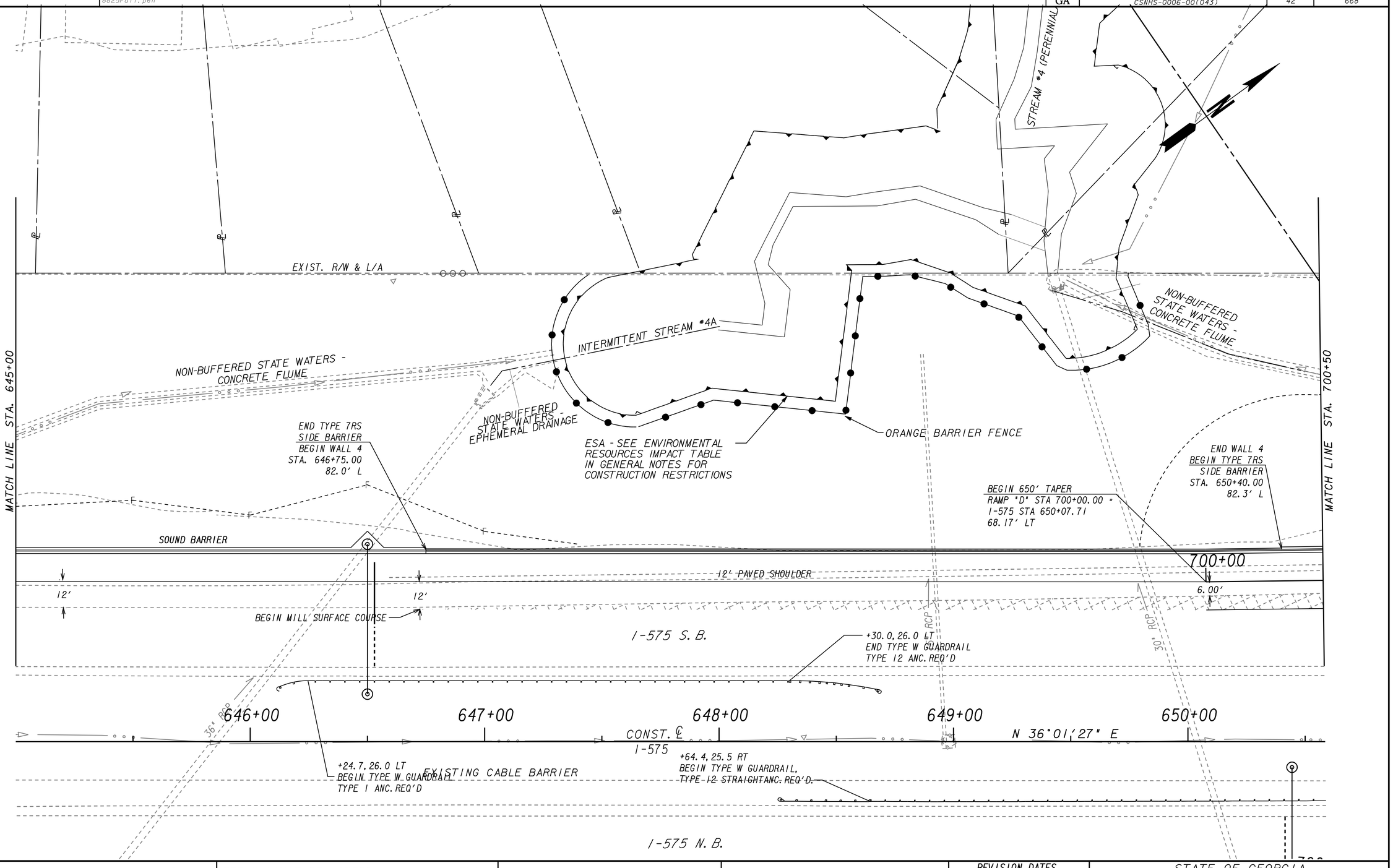
MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 639+50 TO STA. 645+00

DRAWING No. 13-009

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
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3595 ENGINEERING DRIVE
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB AUXILIARY LANE
STA. 645+00 TO STA. 650+50

DRAWING No. 13-010

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	43	668

RELEASED FOR CONSTRUCTION 12/02/10

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

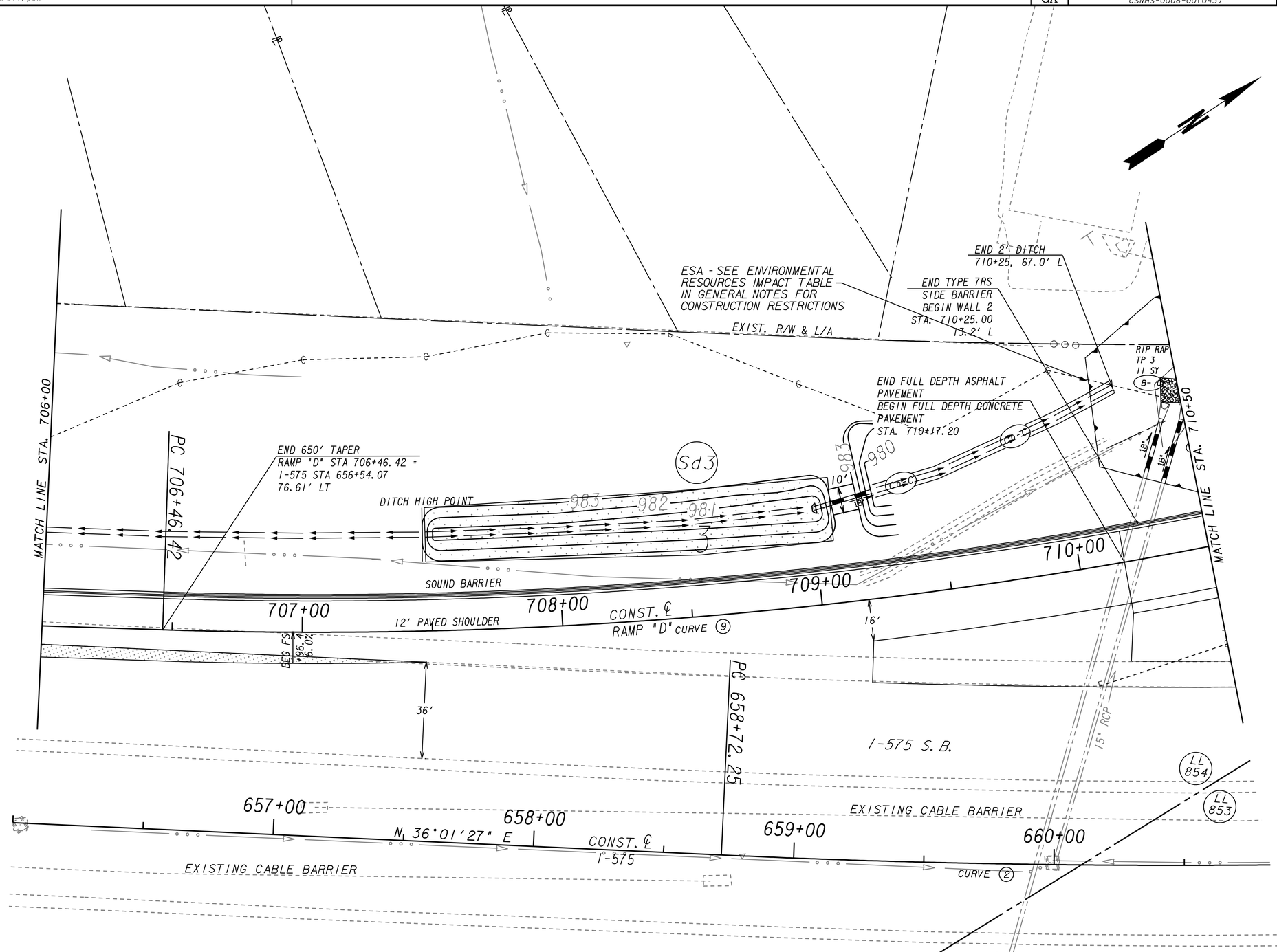
MAINLINE PLAN

I-575 SB AUXILIARY LANE
I-575 STA. 650+50 TO
SB ENTR. RAMP D STA. 700+00

DRAWING No. 13-011

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

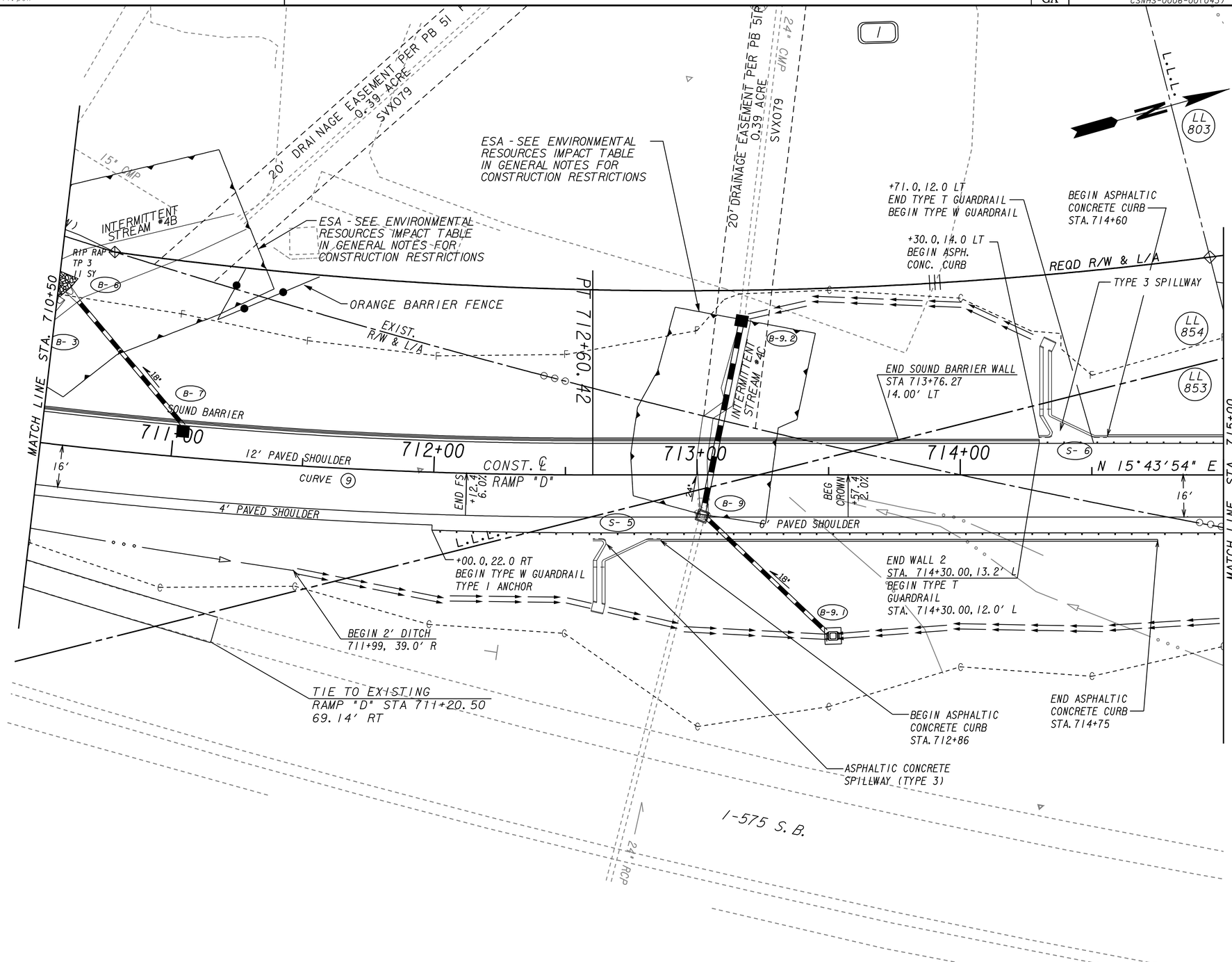
MAINLINE PLAN

I-575 SB ENTRANCE RAMP D
STA. 700+00 TO STA. 704+50

DRAWING No. 13-012

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

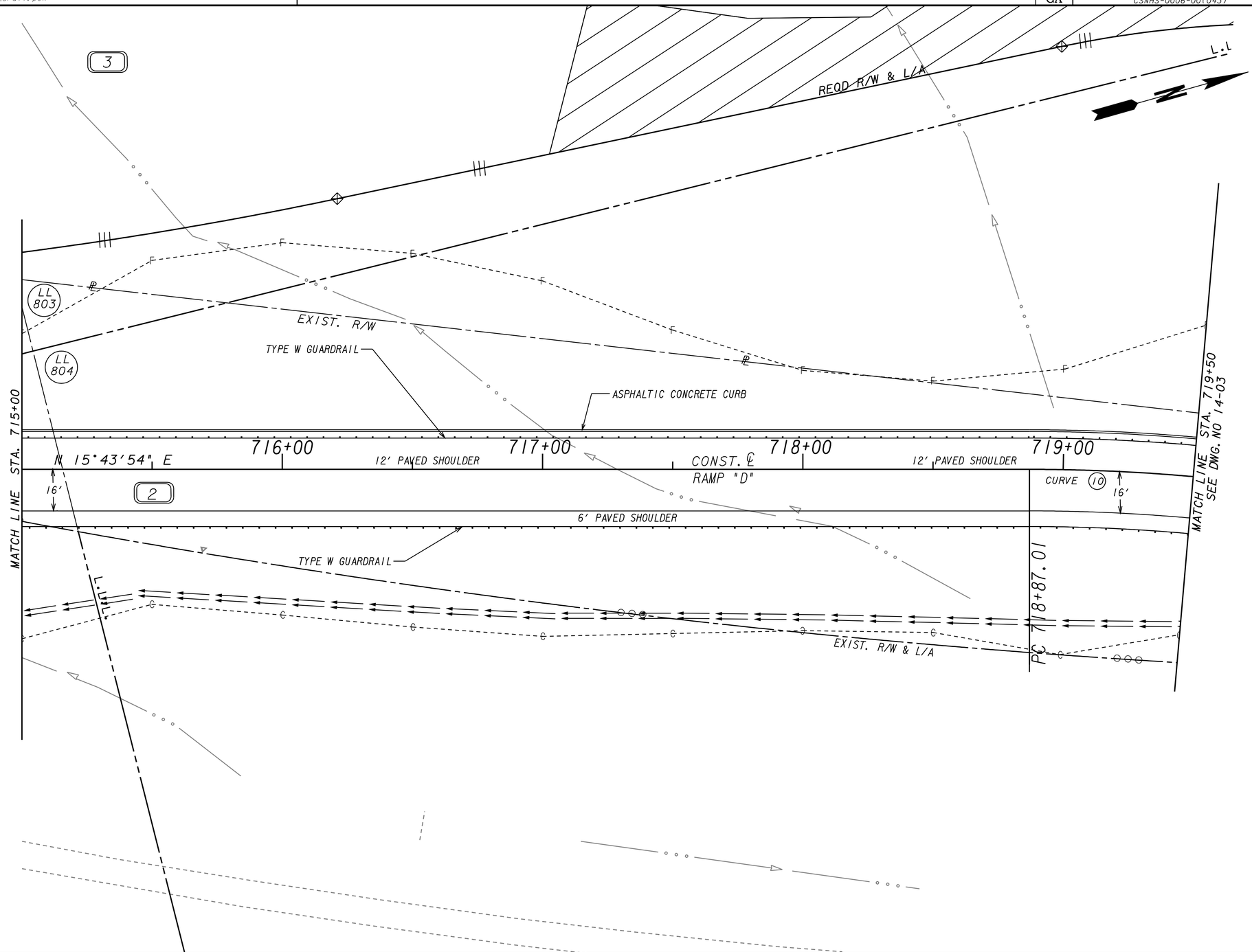
MAINLINE PLAN

I-575 SB ENTRANCE RAMP D
STA. 704+50 TO STA. 709+00

DRAWING No. 13-013

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

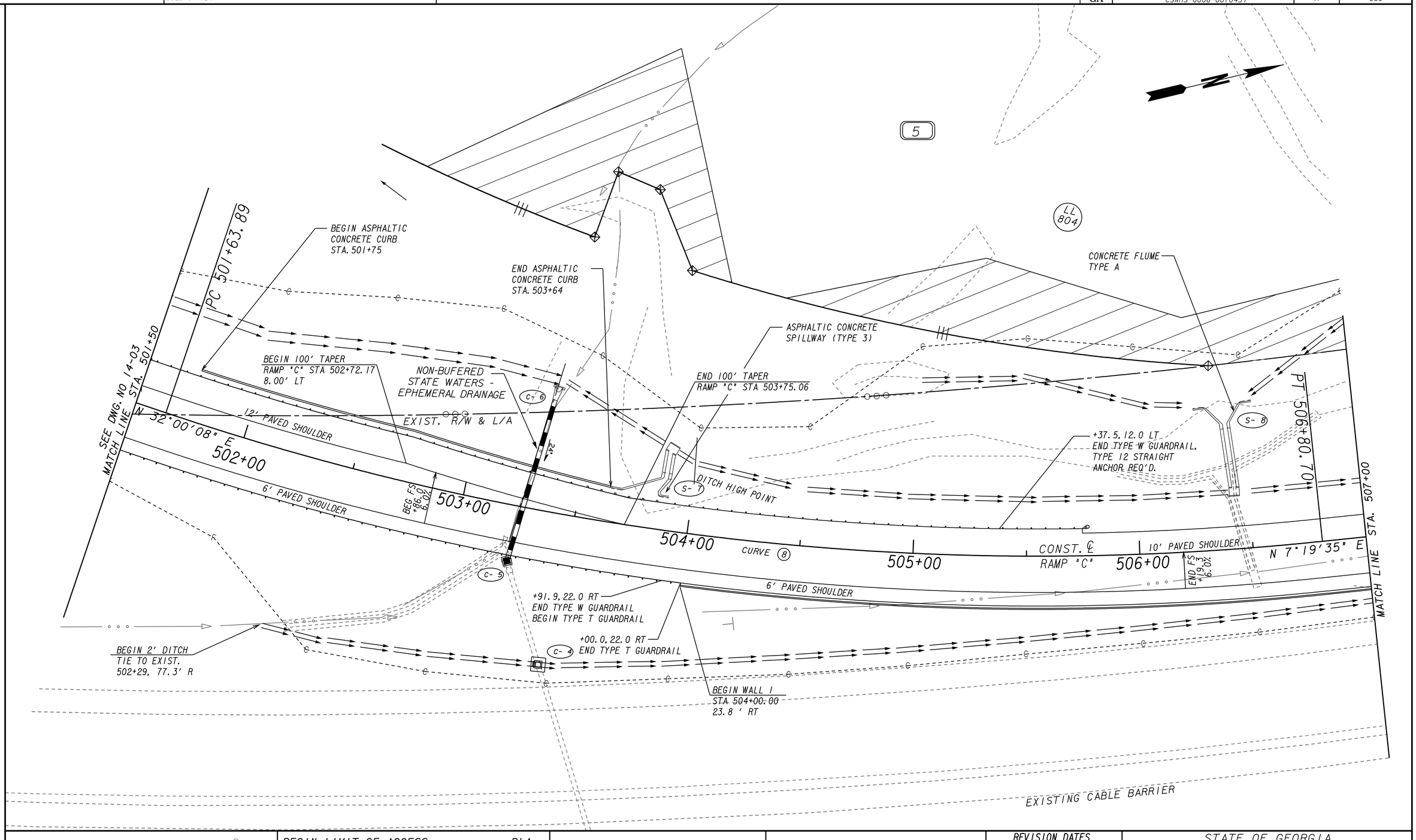
MAINLINE PLAN

I-575 SB ENTRANCE RAMP D
STA. 709+00 TO STA. 713+50

DRAWING No. 13-014

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB EXIT RAMP C
STA. 501+50 TO STA. 507+00

DRAWING No. 13-015

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

5

EXIST. R/W & L/A

BEGIN ASPHALTIC CONCRETE CURB STA. 511+25

END FULL DEPTH CONCRETE PAVEMENT
BEGIN FULL DEPTH ASPHALT PAVEMENT
STA. 509+01.83

END 2' DITCH
TIE TO EXIST.
SH-34, 30.6' LT

Sd3

+00.0, 12.0 LT
BEGIN TYPE W GUARDRAIL
TYPE I ANCHOR

NON-BUFFERED STATE WATERS - CONCRETE FLUME

MATCH LINE STA. 507+00

MATCH LINE STA. 513+00

J-0

J-1

18"

10' PAVED SHOULDER

4' PAVED SHOULDER

6' PAVED SHOULDER

BEG. CROWN 35.10'

CONST. ℄ RAMP "C"

N 7°19'35" E

12' PAVED SHOULDER

15" CMP

508+00 509+00 510+00 511+00 512+00

+25.0, 22.0 RT
BEGIN TYPE T GUARDRAIL

END WALL 1
STA 507+25.00
23.8 ' RT

+45.7, 22.0 RT
END TYPE T GUARDRAIL,
TYPE 12 STRAIGHT
ANCHOR REQUIRED

PT 680+57.50

BEGIN 150' TAPER
I-575 STA 681+27.78
56.00' LT

END 150' TAPER
I-575 STA 682+77.78
68.00' LT

EXISTING CABLE BARRIER

CONST. ℄ I-575

N 3°14'43" E

679+00 680+00 681+00 682+00 683+00 684+00

CURVE 2

TIE TO EXIST FOP

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

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

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

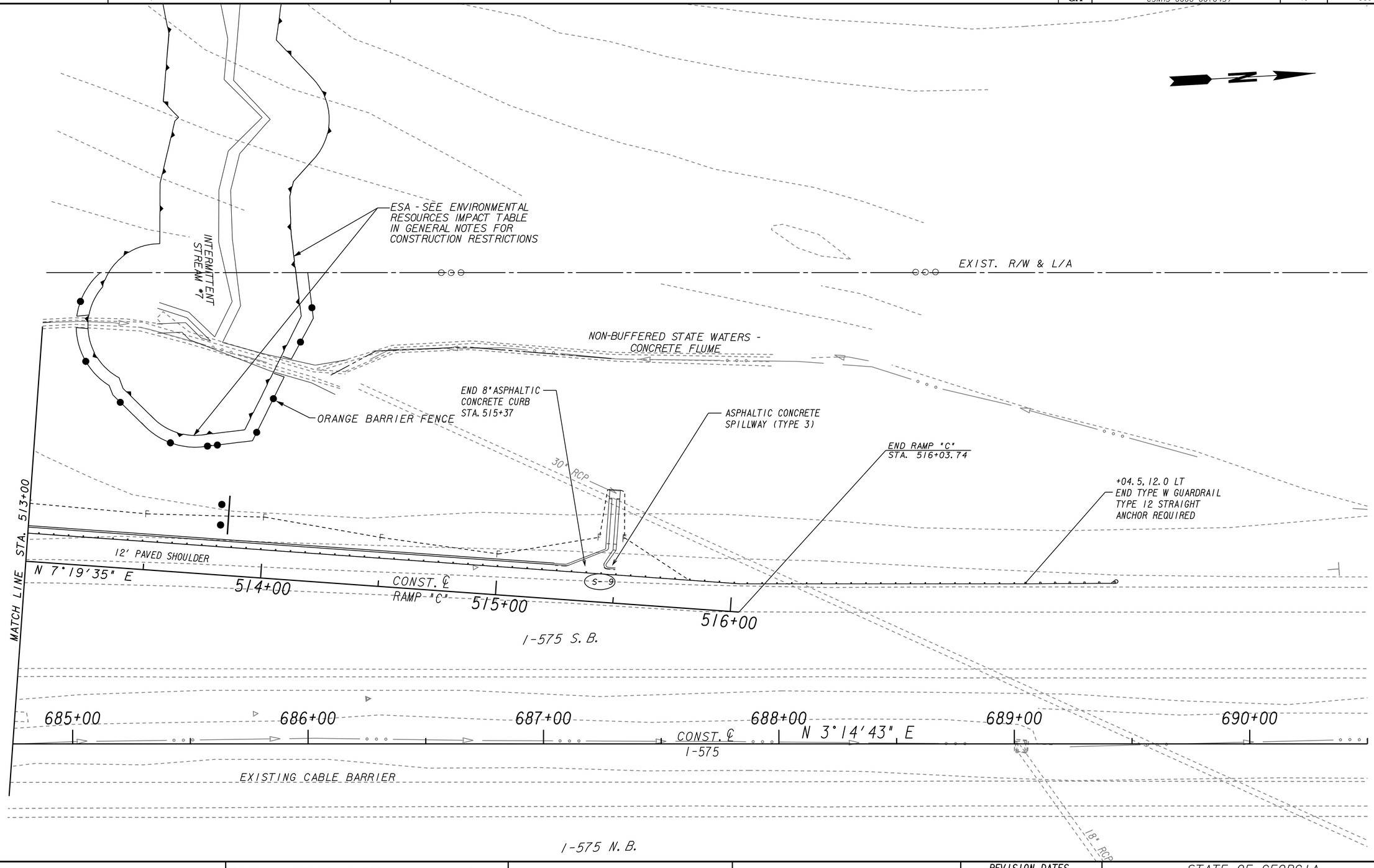
I-575 SB EXIT RAMP C
STA. 507+00 TO STA. 513+00

DRAWING No. 13-016

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	49	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 SB EXIT RAMP C
STA. 513+00 TO END CONST.

DRAWING No. 13-017

1/5/2009 GPLN

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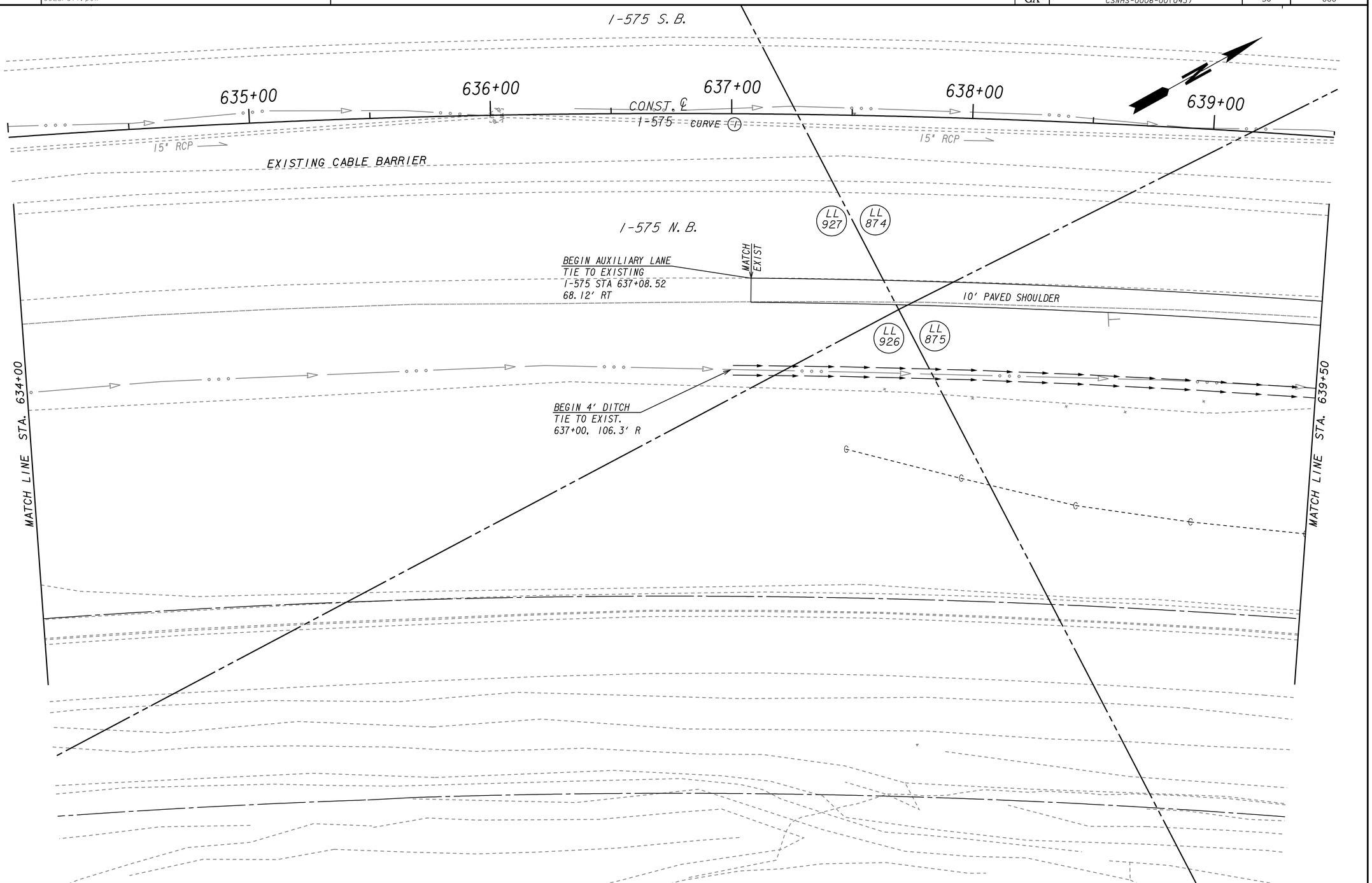
JParks | 8825Full.pen

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	50	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 NB AUXILIARY LANE
BEGIN CONSTR. TO STA. 639+50

DRAWING No. 13-018

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

15" RCP

640+00 | 641+00 | 642+00 | 643+00 | 644+00

CURVE (1)

N 36°01'27" E CONST. ℄ I-575

PT 641+40.18

EXISTING CABLE BARRIER

I-575 N.B.

+65.3, 80.1 RT
BEGIN TYPE W GUARDRAIL
TYPE 12 STRAIGHT
ANCHOR REQUIRED

BEG NC
+50.0
2.0%

10' PAVED SHOULDER

12' PAVED SHOULDER

MATCH LINE STA. 639+50

MATCH LINE STA. 645+50

NON-BUFFERED STATE WATERS
CONCRETE FLUME

BEGIN ASPHALTIC CONCRETE CURB
STA. 644+25

END 4' DITCH
644+28, 141.6' R

Sd3

NON-BUFFERED STATE WATERS
EPHEMERAL DRAINAGE

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

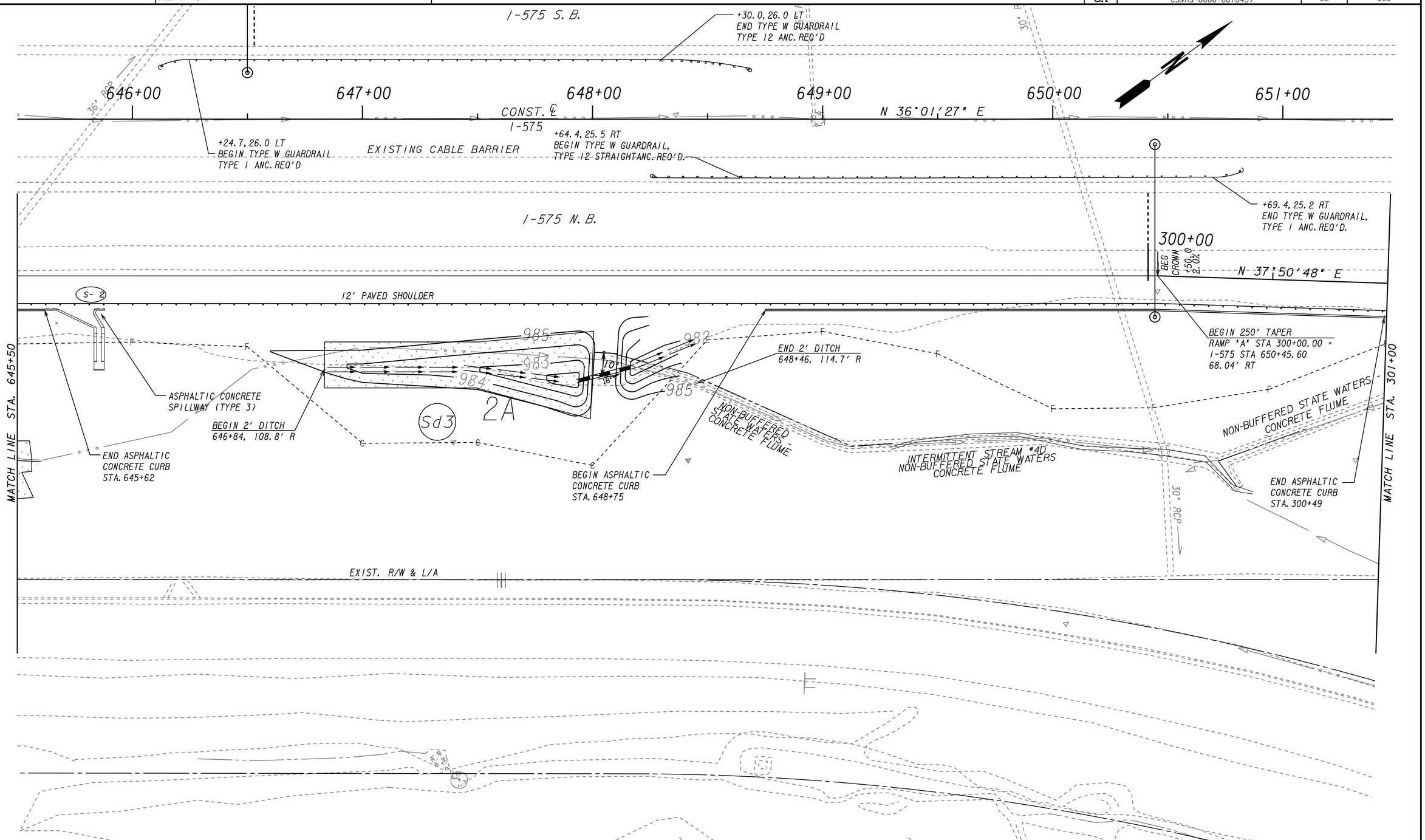
MAINLINE PLAN

I-575 NB AUXILIARY LANE
STA. 639+50 TO STA. 645+50

DRAWING No. 13-019

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

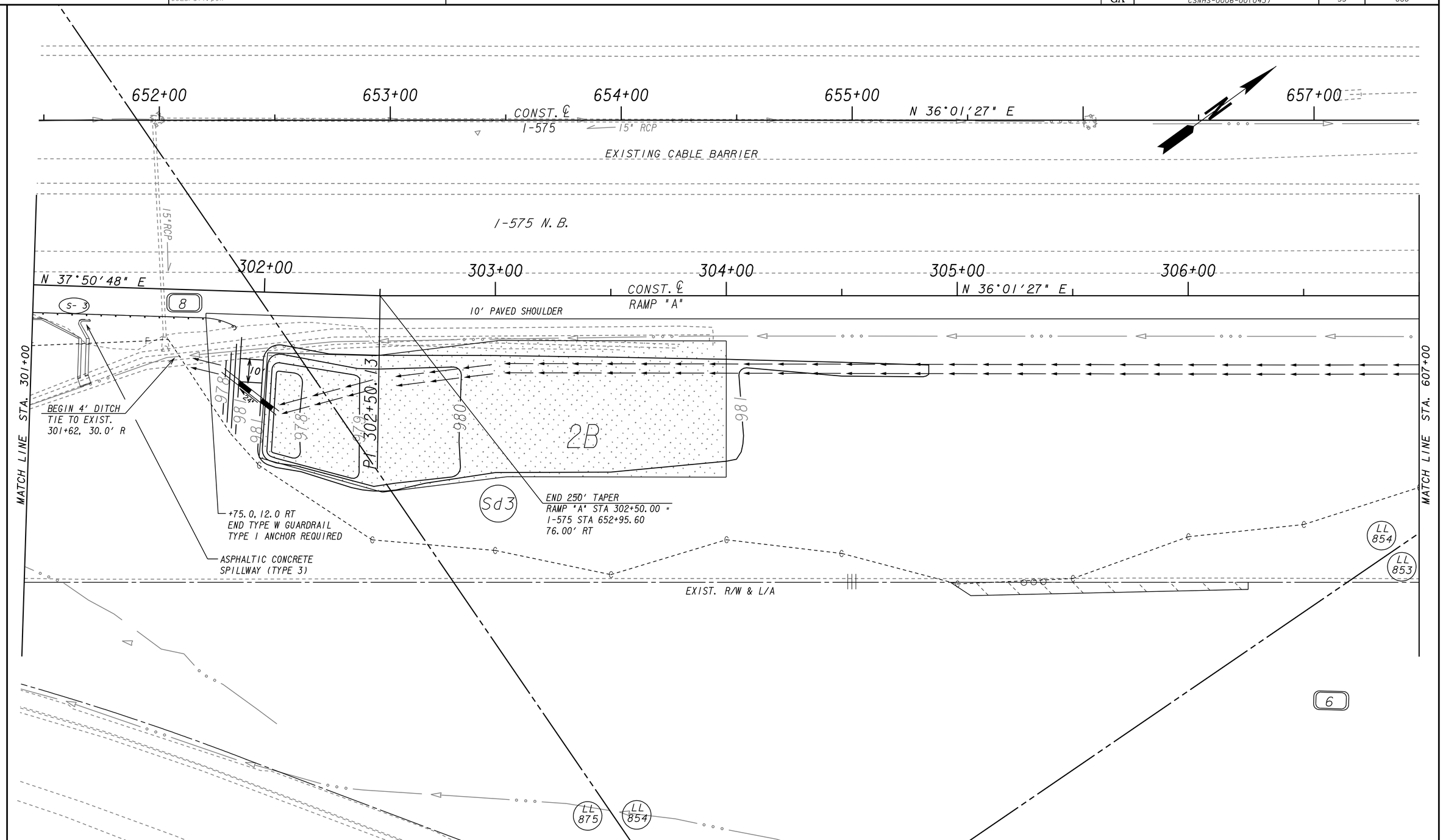
I-575 NB AUXILIARY LANE
STA. 645+50 TO STA. 651+50

DRAWING No. 13-020

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	53	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 NB AUXILIARY LANE
STA. 651+50 TO STA. 657+50

DRAWING No. 13-021

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

I-575 N.B.

L.L.L.

18" RCP

658+00 659+00 660+00 661+00 662+00 663+00

N 36°01'27" E

CONST. ℄ I-575

CURVE (2)

EXISTING CABLE BARRIER

TIE TO EXISTING
I-575 STA 662+36.78
54.62' RT

308+00 309+00 310+00 311+00 312+00

N 36°01'27" E

10' PAVED SHOULDER

CONST. ℄ RAMP "A"

CURVE (5)

16'

4' PAVED SHOULDER

N 44°14'14" E

12' PAVED SHOULDER

END CROWN +45.5 2.0%

BEG FS +70.5 5.0%

END FS +70.5 5.0%

BEG CROWN +70.5 2.0%

BEGIN 2' DITCH
311+86, 35.0' L

RETAIN 18" PIPE

B-10

B-10.1

S-4

MATCH LINE STA. 307+00

MATCH LINE STA. 313+00

PC 307+95.55

PT 311+96.93

END 4' DITCH
308+21, 32.4' R

BEGIN 4' DITCH
309+93, 40.4' R

DITCH HIGH POINT

+23.7, 12.0 RT
BEGIN TYPE W GUARDRAIL,
TYPE 12 STRAIGHT
ANCHOR REQUIRED

END FULL DEPTH ASPHALT PAVEMENT
BEGIN FULL DEPTH CONCRETE PAVEMENT
STA. 311+04.50

4

Sd3

NON-BUFFERED STATE WATERS

EXIST. R/W & L/A

ASPHALTIC CONCRETE SPILLWAY (TYPE 3)
BLA
STA. 319+87.64
70.00' RT.

BEGIN ASPHALTIC CONCRETE CURB
STA. 312+25

LL 854

LL 853

-7-

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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 NB AUXILIARY LANE
I-575 STA. 657+50 TO
NB EXIT RAMP A STA. 305+50

DRAWING No. 13-022

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	55	668

RELEASED FOR CONSTRUCTION 12/02/10

664+00 CONST. ℄ I-575

LL 804

LL 853

L.L.L.

END 2' DITCH
TIE TO EXIST.
314+50, 89.0' L

BEGIN 2' DITCH
315+61, 35.1' L

EXIST. R/W & L/A

4' PAVED SHOULDER

16'

314+00

315+00

316+00

317+00

24.00'

CONST. ℄
RAMP "A"
N 44°14'14" E

12' PAVED SHOULDER

10' PAVED SHOULDER

MATCH LINE STA. 313+00

MATCH LINE STA. 318+00
SEE SWG. NO. 14-04

NON-BUFERED STATE WATERS -
EPHEMERAL DRAINAGE

24'

B-11

END 4' DITCH &
BEGIN 2' DITCH
313+38, 54.9' R

END 100' TAPER
STA 317+00.64

BEGIN 100' TAPER
STA 316+00.77

REQD R/W & L/A

+39.6, 12.0 RT
END TYPE W GUARDRAIL
TYPE I ANCHOR REQUIRED

REC

END ASPHALTIC
CONCRETE CURB
STA. 314+75

7

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

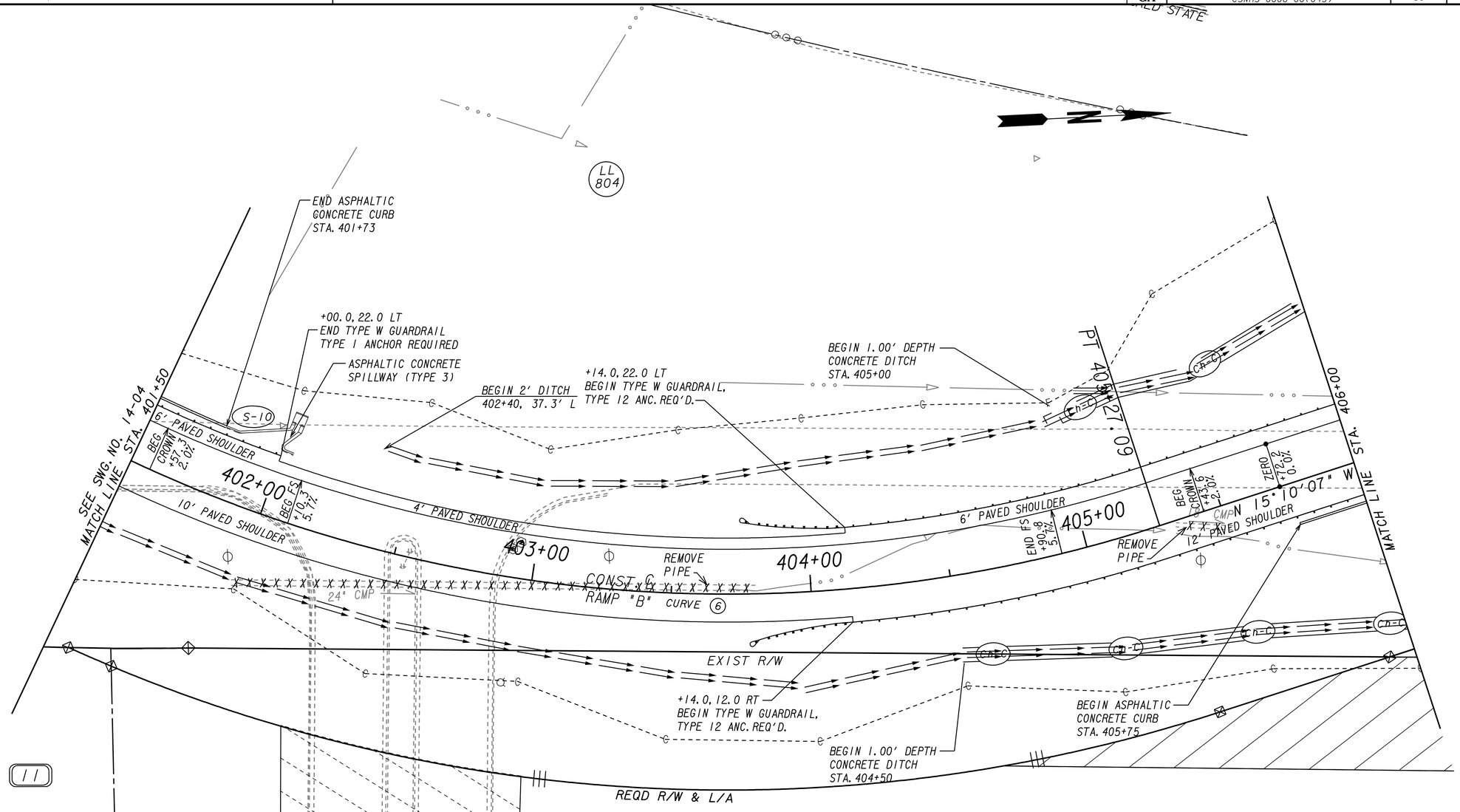
MAINLINE PLAN

I-575 NB EXIT RAMP A
STA. 305+50 TO STA. 310+50

DRAWING No. 13-023

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 NB ENTRANCE RAMP B
STA. 401+50 TO STA. 406+00

DRAWING No. 13-024

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

MATCH LINE STA. 406+00

6' PAVED SHOULDER

12' PAVED SHOULDER

REV CROWN +00.8 2.0%

407+00

REV CROWN +04.4 2.0%

N 15°10'07" W

EXIST. ROPE MILL ROAD

END 2' DITCH
TIE TO EXIST.
407+15, 82.0' R

END 1.00' DEPTH
CONCRETE DITCH
STA. 407+15

NOTE: NO LAND DISTURBANCE SHALL OCCUR WITHIN THE BUFFERED AREA OF THE PERMANENT EASEMENT

12

408+00

408+04.92 PC

NON-BUFFERED STATE WATERS - CONCRETE FLUME

END 1.00' DEPTH
CONCRETE DITCH
STA. 408+50

BEG FS +54.4 6.0%

409+00

BEGIN 2' DITCH
409+00, 82.4' R

OBLITERATE EXISTING PAVEMENT, GRADE TO DRAIN AND GRASS

RIP RAP TP-3 39 SY

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

EXIST R/W

ORANGE BARRIER FENCE

30" RCP

410+00

CONST. ℄ RAMP "B"

CURVE 7

NON-BUFFERED STATE WATERS - CONCRETE FLUME

EXIST. R/W & L/A

END 2' DITCH
410+50, 100.2' R

411+00

+90.0, 22.0 LT
END TYPE W GUARDRAIL
TYPE I ANCHOR REQUIRED

END 2' DITCH
411+50, 31.0' L

4' PAVED SHOULDER

S-1b PAVED SHOULDER

ASPHALTIC CONCRETE CURB

ASPHALTIC CONCRETE SPILLWAY (TYPE 3)

EXIST. ROPE MILL ROAD

STREAM #5 (INTERMITTENT)

MATCH LINE STA. 412+00

LL 804

C-1 C-2 C-3

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	

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 NB ENTRANCE RAMP B
STA. 406+00 TO STA. 412+00

DRAWING No. 13-025

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ANCHOR REQUIRED

+57.50

END I-575 68.0C

EXISTING CABLE BARRIER

680+00 | 681+00 | 682+00 | 683+00 | 684+00 | 685+00

N 3°14'43" E

CONST. ℄ I-575

CURVE (2)

TIE TO EXIST EOP
I-575 STA 679+63.57
54.47' RT

I-575 N.B.

15' ROW

15' ROW

4' PAVED SHOULDER

END FS +92.9 6.0%

413+00 | 414+00 | 415+00 | 416+00 | 417+00

BEG CROWN +42.9 2.0%

N 2°00'09" E

CONST. ℄ RAMP "B"

S-12

CURVE (7)

12' PAVED SHOULDER

10' PAVED SHOULDER

MATCH LINE STA. 412+00

MATCH LINE STA. 418+00

END FULL DEPTH CONCRETE PAVEMENT
BEGIN FULL DEPTH ASPHALT PAVEMENT
STA. 412+93.93

PT 414+42.88

END ASPHALTIC CONCRETE CURB
STA. 415+14

ASPHALTIC CONCRETE SPILLWAY (TYPE 3)

BEGIN 4' DITCH
416+00, 32.0' R

+40.0, 12.3 RT
END TYPE W GUARDRAIL
TYPE I ANCHOR REQUIRED

D-2

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

18"

WETLAND F

Ch-C

Ch-C

D-1

Sd3

6

EXIST. ROPE MILL ROAD

18" RCP

18" CMP

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	

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

MAINLINE PLAN

I-575 NB ENTRANCE RAMP B
STA. 412+00 TO STA. 418+00

DRAWING No. 13-026

1/5/2009 GPLN

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	59	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

686+00 687+00 688+00 689+00 690+00 691+00

CONST. ℄ I-575 N 3°14'43" E

EXISTING CABLE BARRIER

I-575 N.B.

18" RCP

MATCH LINE STA. 418+00

419+00 420+00 421+00 422+00 423+00

CONST. ℄ RAMP "B" N 2°00'09" E

MATCH LINE STA. 424+00

Ch-C

+20.0, 12.0 RT
BEGIN TYPE W GUARDRAIL,
TYPE 12 STRAIGHT
ANCHOR REQUIRED

END 4' CONC. DITCH
1.00' DEPTH
422+00, 29.7' R

BEGIN ASPHALTIC
CONCRETE CURB
STA. 422+75

BEGIN 4' CONC. DITCH
1.00' DEPTH
421+50, 32.0' R

EXIST. R/W & L/A

EXIST. R/W & L/A

EXIST. ROPE MILL ROAD

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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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MAINLINE PLAN

I-575 NB ENTRANCE RAMP B
STA. 418+00 TO STA. 424+00

DRAWING No. 13-027

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

692+00 693+00 694+00 695+00 696+00 697+00

CONST. ℄ I-575

N 3°14'43" E

CURVE ③

EXISTING CABLE BARRIER

I-575 N.B.

MATCH LINE STA. 418+00

425+00 426+00 427+00

N 2°00'09" E

CONST. ℄ RAMP "B"

END RAMP "B" STA. 427+96.04

PC 696+21.67

12' PAVED SHOULDER (S-13) (S-14)

30" RCP

ASPHALTIC CONCRETE SPILLWAY (TYPE 3)

END ASPHALTIC CONCRETE CURB STA. 426+20

ASPHALTIC CONCRETE SPILLWAY (TYPE 3)

15" CMP

+96.0, 12.0 RT END TYPE W GUARDRAIL TYPE 1 ANCHOR REQUIRED

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

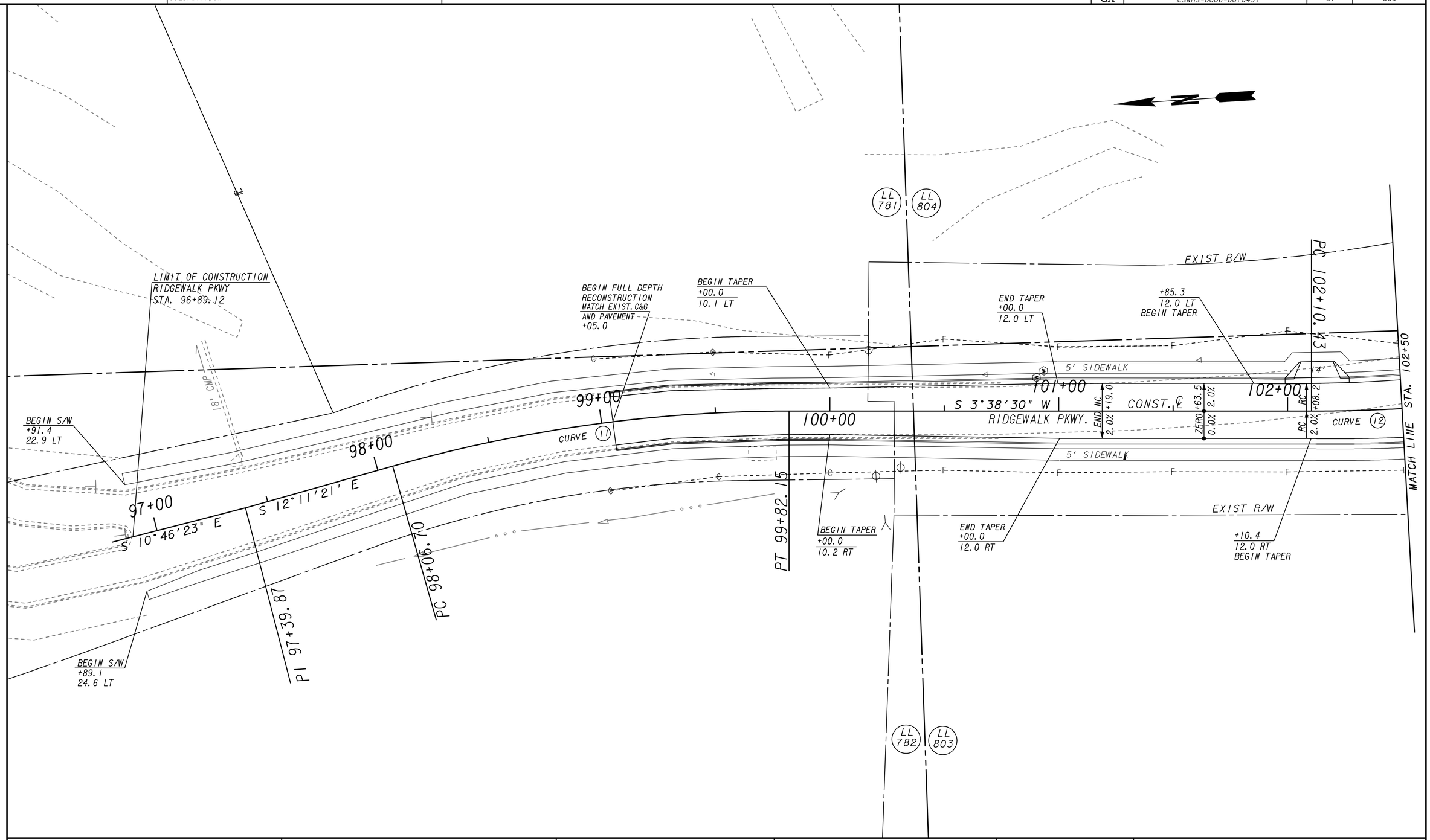
MAINLINE PLAN

I-575 NB ENTRANCE RAMP B
STA. 418+00 TO END CONST.

DRAWING No. 13-028

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PLAN

RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

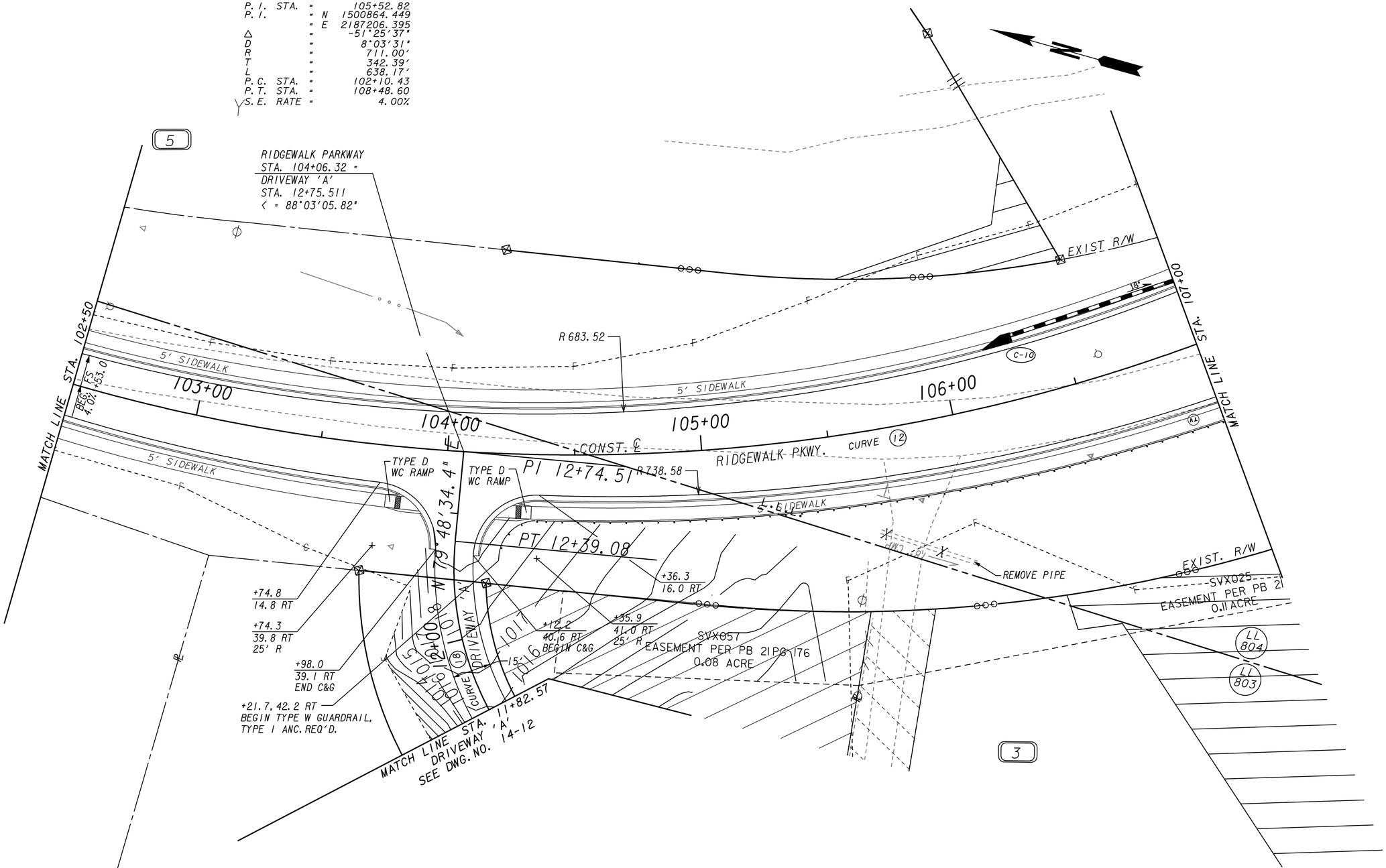
DRAWING No. 14-001

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

CURVE #12 RIDGEWALK PARKWAY

P. I. STA.	=	105+52.82
P. I.	= N	1500864.449
	= E	2187206.395
Δ	=	-51°25'37"
D	=	8°03'31"
R	=	711.00'
T	=	342.39'
L	=	638.17'
P. C. STA.	=	102+10.43
P. T. STA.	=	108+48.60
S. E. RATE	=	4.00%



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

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

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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
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CROSSROAD PLAN

RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 14-002

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	63	668

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 13-15
EXIT RAMP C
MATCH LINE STA. 501+50

+50.0, 20.0 LT
BEGIN TYPE W GUARDRAIL,
TYPE I ANC. REQ'D.

END C&G
+22.4
RIP RAP
TP 3
9 SY

TYPE D
WC RAMP

END S/W
+50.6

MATCH LINE STA. 107+00

5' SIDEWALK

CONST. ℄ RAMP "C"

2.0%
+50.0
BEG CROWN

6' PAVED SHOULDER

BEGIN C&G
+88.8
16.0 RT

+22.4
08.0 LT

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB EXIT RAMP "C"
STA. 500+00.00
< = 79°47'14.19"

TYPE D
WC RAMP

PT 108+48.60
N 32°00'08" E

BEGIN S/W
+83.3

BEGIN APPROACH SLAB
STA 109+85.10

108+00

END
INTERSECTION
1.02%

RC
+46.8

END FS
+2.05

CONST. ℄
CURVE (12)

END FS
4.0%

+07.8
24.8 RT

RC
2.0%

N 32°00'07" E

PT 720+88.92

BEGIN
INTERSECTION
0.69%

ZERO
0.0%

R = 25
TYPE W

+08.8
42.3 RT

0.5%
+50.0
END
CROWN

END C&G
+25.7
0.0 RT

(10) CURVE 720+00

2.0%
+00.0
END
CROWN

REMOVE
PIPE

CONST. ℄ RAMP "D"

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB ENTRANCE RAMP "D"
STA. 721+04.45
< = 79°47'13.39"

END S/W
+19.6

TYPE D
WC RAMP

R = 80
GUARDRAIL

PG 176

+05.6
98.0 RT
75' R

END ASPHALTIC
CONCRETE CURB
STA. 720+24

LL 803

LL 804

MATCH LINE STA. 719+50
ENTRANCE RAMP D
SEE DWG. NO. 13-14

EXIST. R/W

15" CMP

EXIST. CABLE BARRIER

+67.3, 37.4 LT
END TYPE W
GUARDRAIL,
BEGIN TYPE T

END C&G
+02.8

5.5' SIDEWALK

6' SIDEWALK

5.5' S/W

+38.1
23.0 LT

+37.7
26.9 LT

R = 25
GUARDRAIL
TYPE W

+63.5
2.0%

(C-11)

109+00

+29.7
28.0 LT

BEG. NC
+36.3
32.5 LT

+40.8
28'

+71.7
30.5 LT

110+00

CONSTRUCTION JOINT

111+00

CONST. ℄

RIDGEWALK PKWY.

112+00

S 47°47'07" E

+15.0
2.0 RT

+31.4
28.0 RT

BEG. NC
2.0%

+15.0
14.0 RT

+98.5
30.5 RT

(B-13)

28'

5' SIDEWALK

5.5' SIDEWALK

6' SIDEWALK

+55.0
14.0 RT

+69.4
32.5 RT

REMOVE PIPE

BEGIN S/W
+28.2

TYPE D
WC RAMP

(B-12)

RIP RAP
TP 3
9 SY

+31.4
53.0 RT
25' R

R = 90
GUARDRAIL

END C&G
+27.4

+10.6
90.3 RT
112.5' R

BEGIN C&G
+67.4
16.0 RT

END 2' DITCH
719+96, 56.9' R

END WALL * 5
STA 671+92.05
95.27 LT

BEND IN WALL
STA. 671+39.43
95.33 LT

BEGIN BRIDGE
END APPROACH SLAB
STA 110+15.10

+29.2, 18.8 RT
END TYPE W GUARDRAIL,
TYPE I ANC. REQ'D.

+40.2, 18.1 RT
END TYPE W GUARDRAIL,
TYPE I ANC. REQ'D.

END WALL * 6
STA 670+93.54
96.84 RT

NON-BUFFERED
STATE WATERS
CONCRETE FLUME

RIP RAP
TP 3
8 SY

(C-13)

BEGIN C&G
+26.8

END BRIDGE
BEGIN APPROACH SLAB
STA 112+39.10

MATCH LINE STA. 112+50

I-575 00+229

I-575 00+679

I-575 00+699

I-575 SOUTHBOUND

I-575 NORTHBOUND

CURVE (2)

+00.2, 37.4 RT
END TYPE W
GUARDRAIL,
BEGIN TYPE T

+97.8, 20.8 LT
BEGIN TYPE W GUARDRAIL,
TYPE I ANC. REQ'D.

BEGIN WALL * 5
STA 669+88.14
96.11 LT

+59.8, 18.9 RT
BEGIN TYPE W GUARDRAIL,
TYPE 12 ANC. REQ'D.

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

THE LPA GROUP
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0 20 40 80

REVISION DATES

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CROSSROAD PLAN

RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 14-003

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 13-24
ENTRANCE RAMP B
MATCH LINE STA. 401+50

EXIST. R/W & L/A

+84.0
98.3 LT
112.5' R

BEGIN ASPHALTIC CONCRETE CURB
STA. 401+16

ZERO SUPER
+28.6
0.0%

RAMP "B"

END C&G
+15.6
16.0 LT

CONST. ℄

401+00

RIP RAP
TP 3
8 SY

END CROWN
+00.0
2.0%

BEGIN C&G
+1.1
0.0 RT

BEGIN 2' DITCH
401+00, 27.0' R

+87.0
112.2 LT
75' R

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00
< = 89°48'22.75"

ACCESS EASEMENT

LL 804

LL 853

+54.0, 37.4 LT
END TYPE T GUARDRAIL,
BEGIN TYPE W

END APPROACH SLAB
STA 112+69.10

R 100
+58.9
53.0 LT
25' R

R 45
TYPE W GUARDRAIL

TYPE D WC RAMP

BEGIN S/W
+59.7
47.3 LT

+95.0
14.0 LT

END S/W
+72.5

+80.2
40.1 LT

END INTERSECTION
2.57%

5' SIDEWALK

PC 400+28.00

EXIST R/W

+84.8
36.0 LT

+85.6
37.2 LT

+40.9
36.0 LT

+55.7
30.5 LT

+86.6
32.5 LT

REMOVE PIPE

+35.0
2.0 LT

+23.7
14.0 LT

+59.3
28.0 LT

28'

113+00

114+00

115+00

116+00

117+00

118+00

CONST. ℄

S 47°47'07" E

N 42°01'49" E

RIDGEWALK PKWY.

S 46°36'07" E

CURVE (13)

+23.7
6.0 LT
8' R

+23.7
2.0 RT

+77.0
28.0 RT

BEGIN INTERSECTION
2.63%

+99.1
25.3 RT

+54.5
24.2 RT

+55.4
33.8 RT

+82.5
30.5 RT

+13.3
32.5 RT

MATCH LINE STA. 112+50

MATCH LINE STA. 118+50

5' SIDEWALK

REMOVE PIPE

BEGIN C&G
+51.4

RIP RAP
TP 3
8 SY

BEGIN WALL * 6
STA. 669+20.56
98.55 RT

+86.9, 37.4 RT
END TYPE T GUARDRAIL,
BEGIN TYPE W

EXIST. R/W & L/A

+95.0, 38.0 RT
END TYPE W GUARDRAIL,
TYPE I ANC. REQ'D.
+77.0
53.1 RT
25' R

END S/W
+82.7

END 2' DITCH
318+84, 41.1' L

TYPE D WC RAMP

END C&G
+91.7
15.5 LT

319+00

4' PAVED SHOULDER

24.00'

CONST. ℄ RAMP "A"

PC 115+36.56

PT 116+60.46

END 2' DITCH
318+51, 24.3' R

BEGIN C&G
+49.0
8.5 RT

+00.5
100.3 RT
75' R

BEGIN S/W
+00.5
35.5 RT

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65
< = 87°58'38.76"

MATCH LINE STA. 318+00
EXIT RAMP A
SEE DWG. NO. 13-23

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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PLAN

RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 14-004

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 14-06
RELOC. ROPE MILL ROAD
MATCH LINE STA. 201+50

LL 804 ≠ L.L.L. LL 853

10 | 17 | 16 | 15 | 8

END SPECIAL SIDEWALK +93.40

BEGIN S/W TRANSITION +05.40

+11.0 94.0 LT 70' R

TYPE IV STRAIN POLE STA. 120+40.41 51.2' LT

+25, 28.0 LT END TYPE W GUARDRAIL, TYPE 12 ANC. REQ'D.

+25.3 18.0 LT

+21.9, 34.0 LT BEGIN TYPE W GUARDRAIL TYPE I ANC. REQ'D.

PC 200+82.93

RC 2.0%

+81.2 18.0 RT

RELOC. ROPE MILL RD

5' SIDEWALK

REQD R/W

+97.1 98.6 LT 75' R

TYPE IV STRAIN POLE STA. 121+55.9 50.5' LT

BEGIN S/W TRANSITION +54.16

BEGIN SPECIAL SIDEWALK +66.16

PC 119+21.88

EXIST R/W

18" CMP

MATCH EXIST. C&G END SIDEWALK +96.8 23.6 LT

EXIST R/W

5' SIDEWALK

REMOVE PIPE & STRUCTURES

+10.1 24.0 LT

G-7.1

TYPE B WC RAMP

END CROWN 4.0%

END CROWN +25.3

TYPE B WC RAMP

PT 120+68.62

N 30°05'53" E

MATCH LINE STA. 118+50

119+00 | 120+00 | 121+00 | 122+00 | 123+00 | 124+00

S 46°36'07" E

CURVE (14)

CONST. ℄ RIDGEWALK PKWY.

S 48°00'12" E

18"

+30.0 27.7 RT

5' SIDEWALK

G-7

G-6

EXIST R/W

TYPE B WC RAMP (TYP)

WOODSTOCK PKWY.

+31.5 102.7 RT 75' R

MATCH EXIST. C&G END SIDEWALK +97.0 23.6 LT

15" UNKNOWN

TIE TO EXIST RIDGEWALK PKWY STA. 122+00.00

WATER MAIN VALVE TOP=981.31

5' x 10' CONC. LANDING, 4" W/ TRUNCATED DOME

LL 852

LIMIT OF CONSTRUCTION RIDGEWALK PKWY STA. 126+50.00

EXIST R/W

LL 853

MANHOLE, TELEPHONE, TOP 984.10

L.L.L.

RIDGEWALK PARKWAY STA. 121+22.79= RELOC. ROPE MILL ROAD STA. 200+00.00
< = 78°06'05.93"

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

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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
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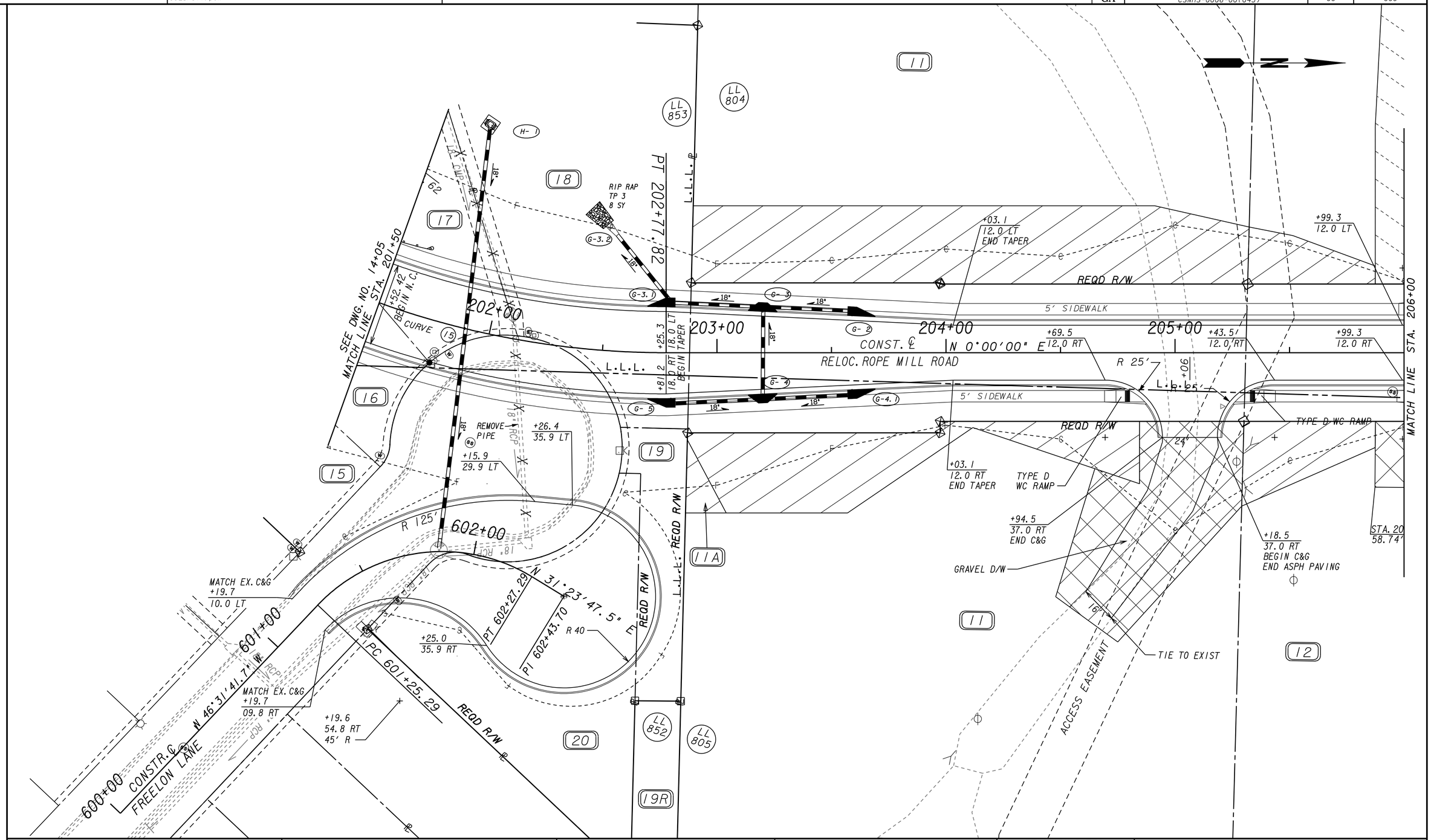
CROSSROAD PLAN

RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 14-005

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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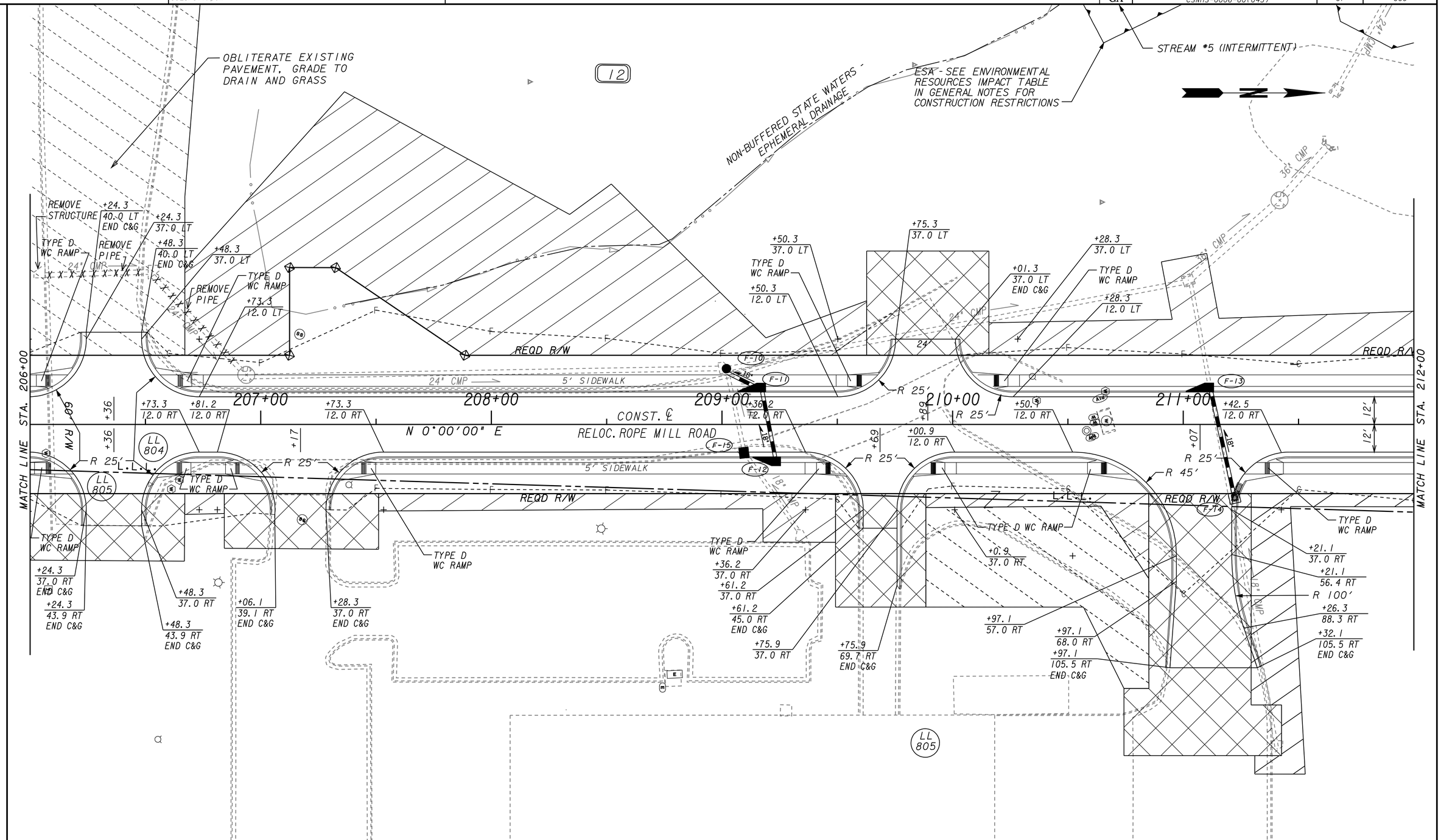
CROSSROAD PLAN

RELOC. ROPE MILL ROAD
STA. 201+50 TO STA. 206+00

DRAWING No. 14-006

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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CROSSROAD PLAN

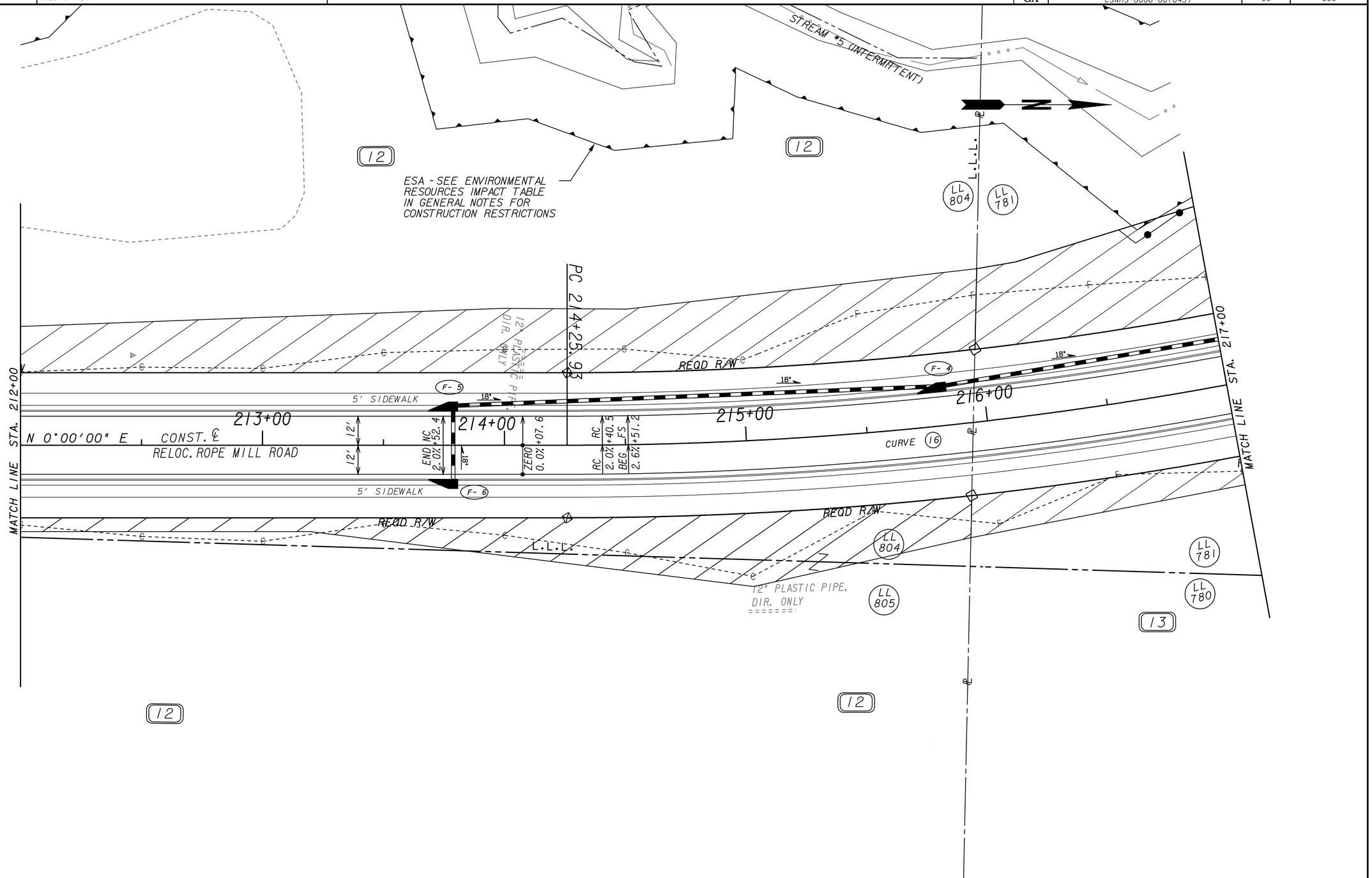
RELOC. ROPE MILL ROAD
STA. 206+00 TO STA. 212+00

DRAWING No. 14-007

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	68	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

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CROSSROAD PLAN

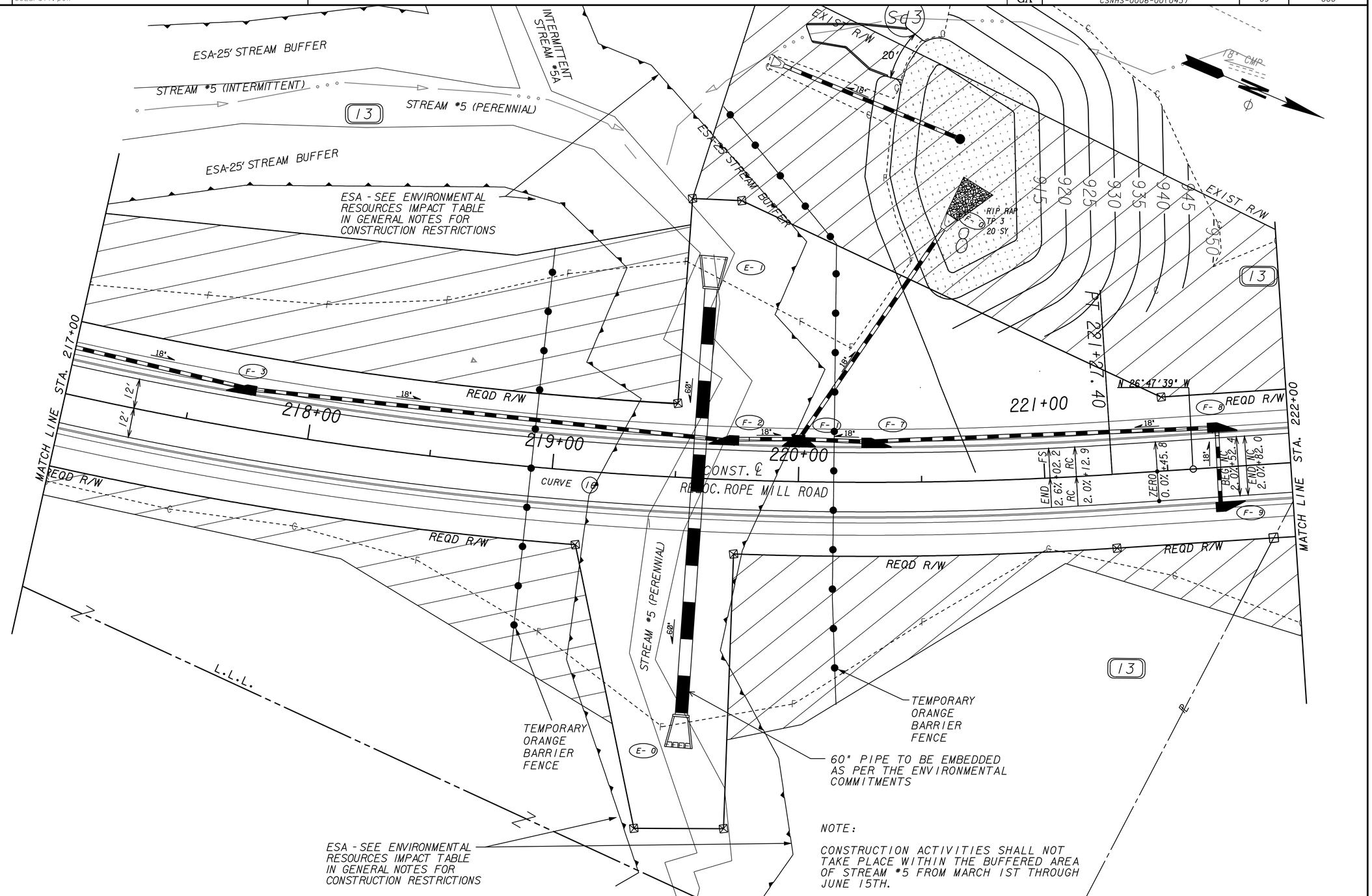
RELOC. ROPE MILL ROAD
STA. 212+00 TO STA. 217+00

DRAWING No. 14-008

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	69	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

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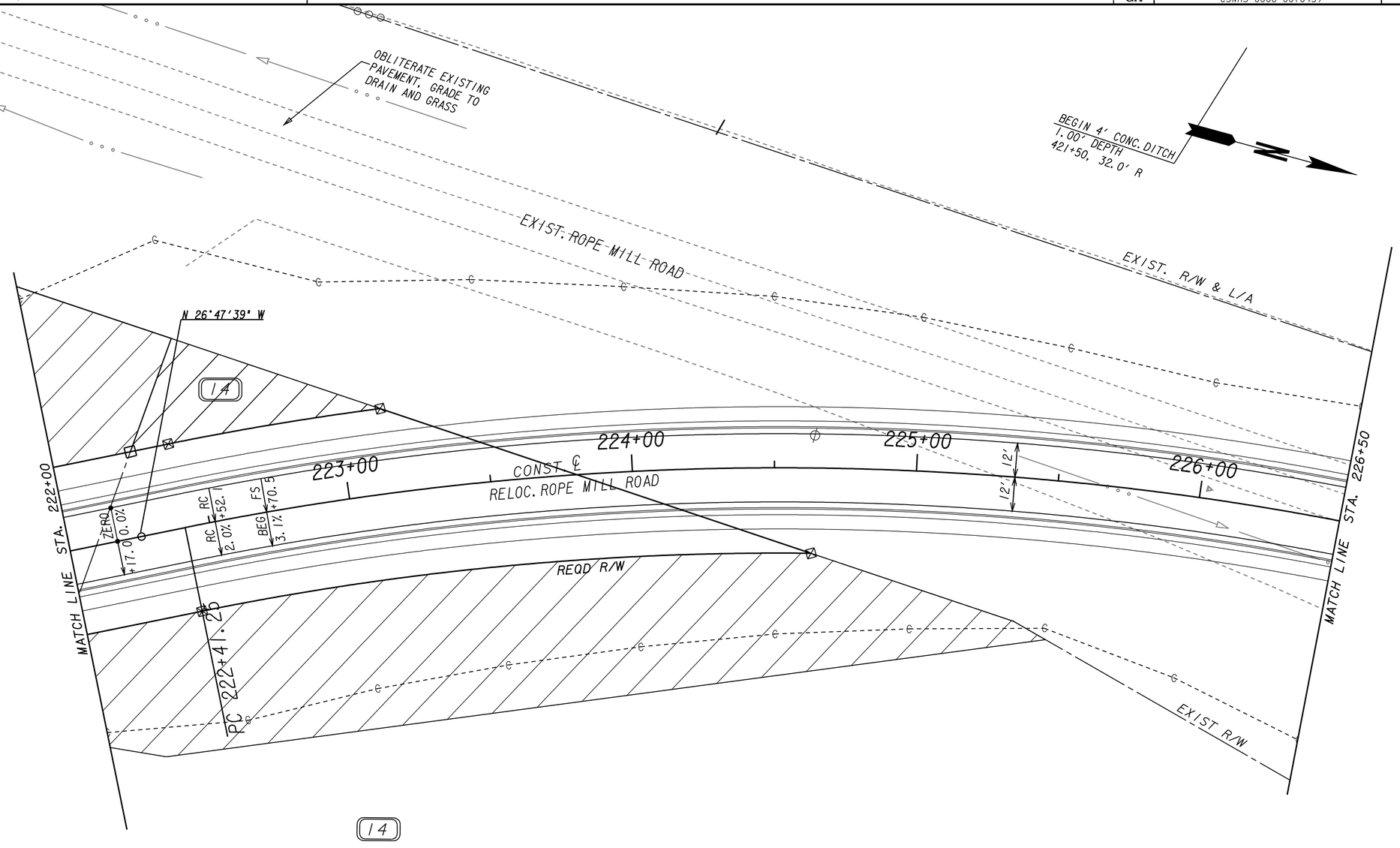
CROSSROAD PLAN

RELOC. ROPE MILL ROAD
STA. 217+00 TO STA. 222+00

DRAWING No. 14-009

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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

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CROSSROAD PLAN

RELOC. ROPE MILL ROAD
STA. 222+00 TO STA. 226+50

DRAWING No. 14-010

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	71	668

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

EXIST. R

END CURB & GUTTER
END SIDEWALK
+50.00
14.0 LT

PI 229+31.14

STA. 226+50

MATCH LINE

227+00

CONSTR.℄
ROPE MILL RD.
(RELOCATION)

CURVE (17)

12'
12'

END FS +62.93 12'

RC +81.32 0'

228+00

N 3°15'41" E

229+00

N 5°48'53" E

PT 227+92.05

S-15

SPILLWAY
TP-3
GA. STD.
901.3

18" CMP

END CURB & GUTTER
END SIDEWALK
+50.00
14.0 RT

INTERMITTENT STREAM #7

ORANGE BARRIER FENCE

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

LIMIT OF CONSTRUCTION
OLD ROPE MILL RD.
(RELOCATION)
STA. 229+44.80
END TAPER
TIE TO EXISTING PVMT

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

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

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DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

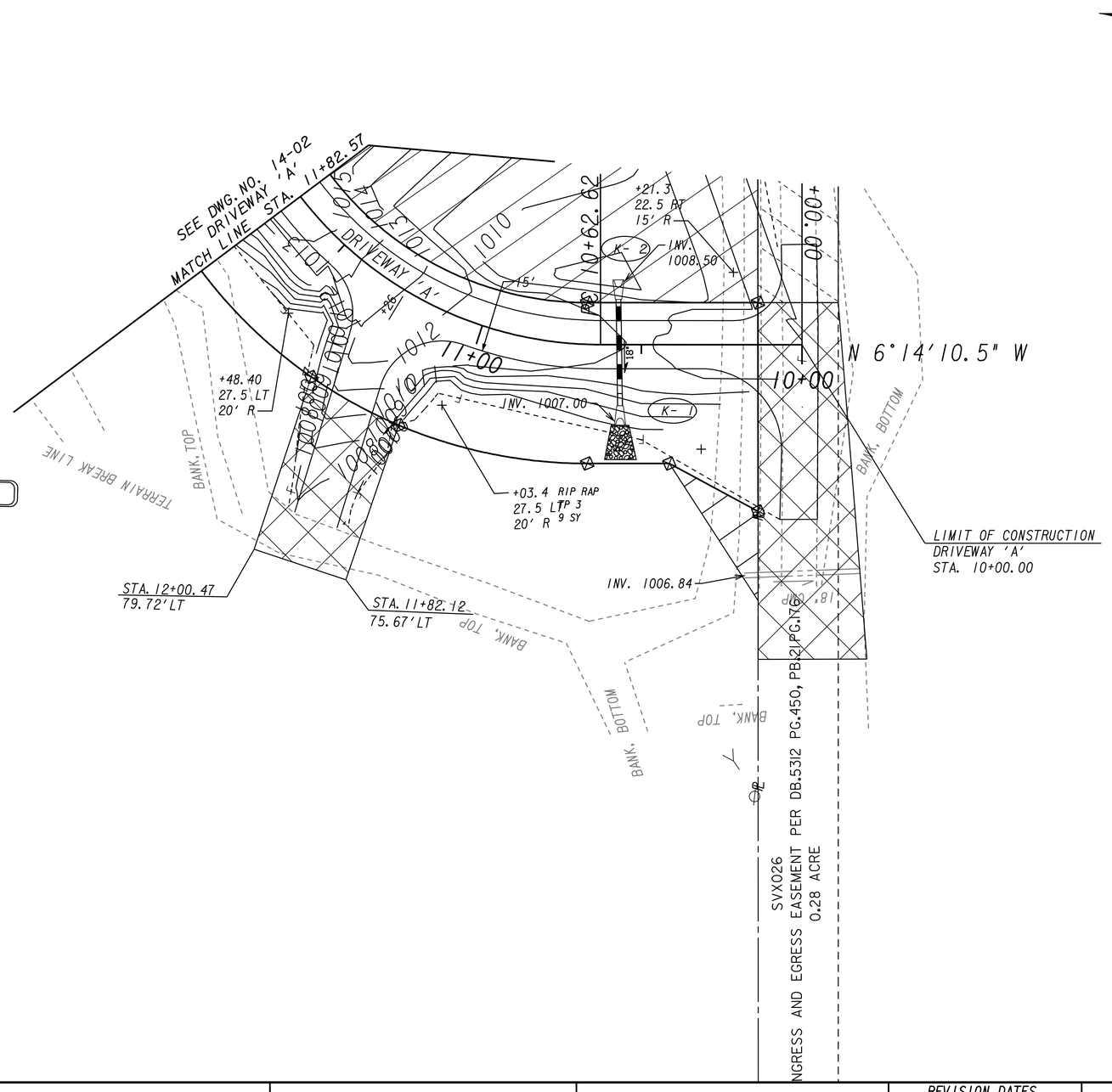
CROSSROAD PLAN

RELOC. ROPE MILL ROAD
STA. 226+50 TO END CONST.

DRAWING No. 14-011

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



4

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

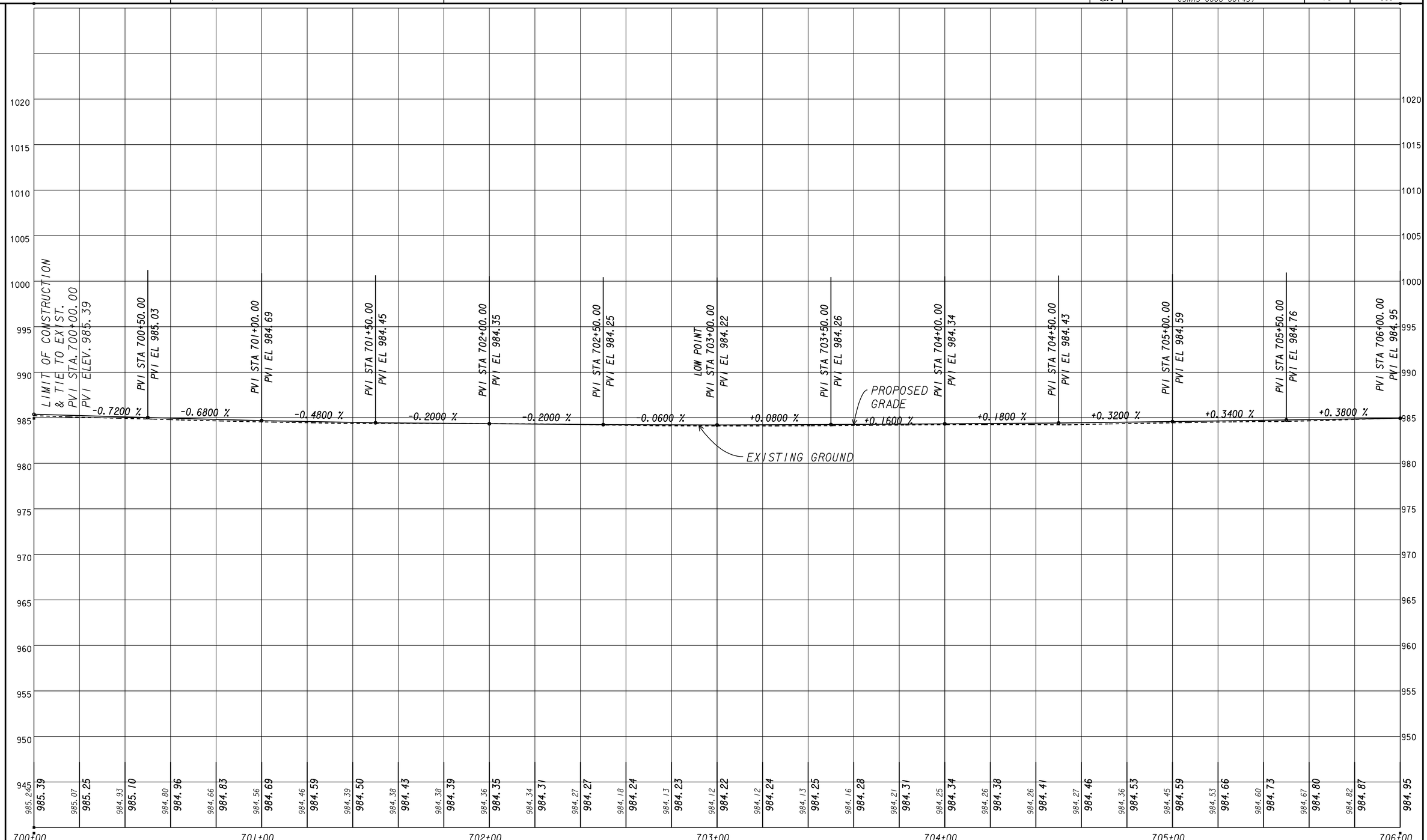
CROSSROAD PLAN

DRIVEWAY 'A'
BEGIN CONS. TO STA. 11+82.57

DRAWING No. 14-012

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

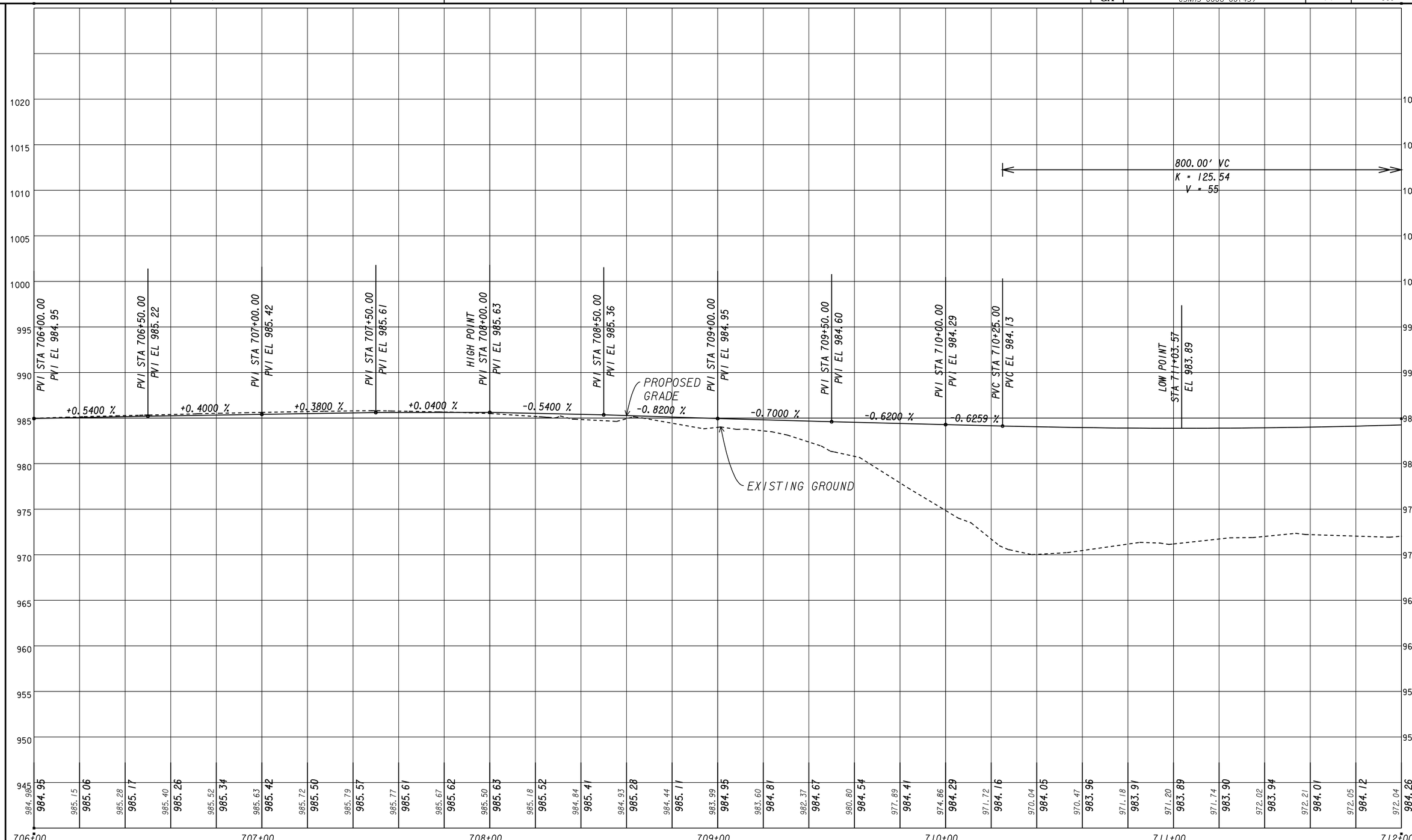
RAMP 'D'

DRAWING No. 16-001

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	74	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

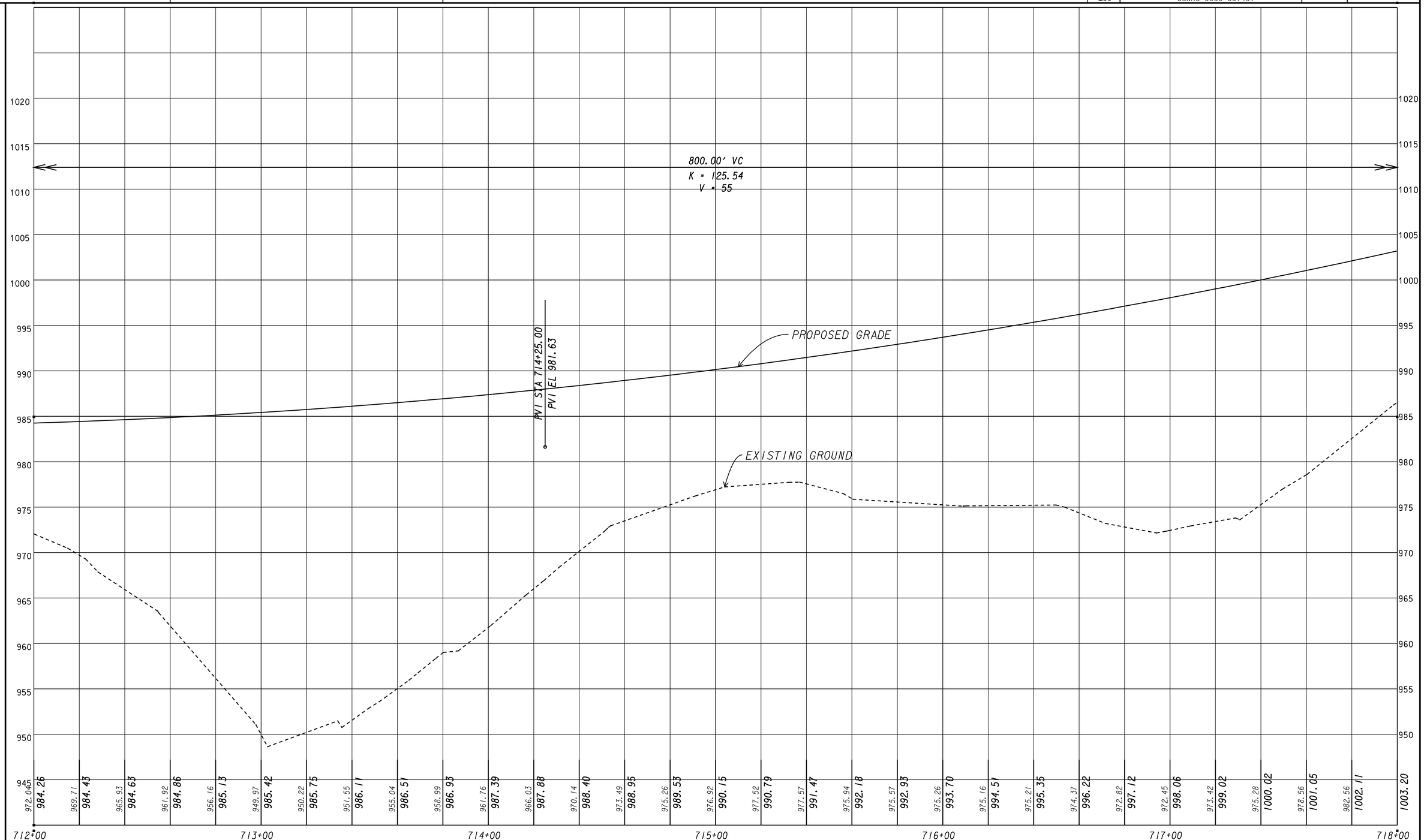
RAMP 'D'

DRAWING No. 16-002

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	75	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

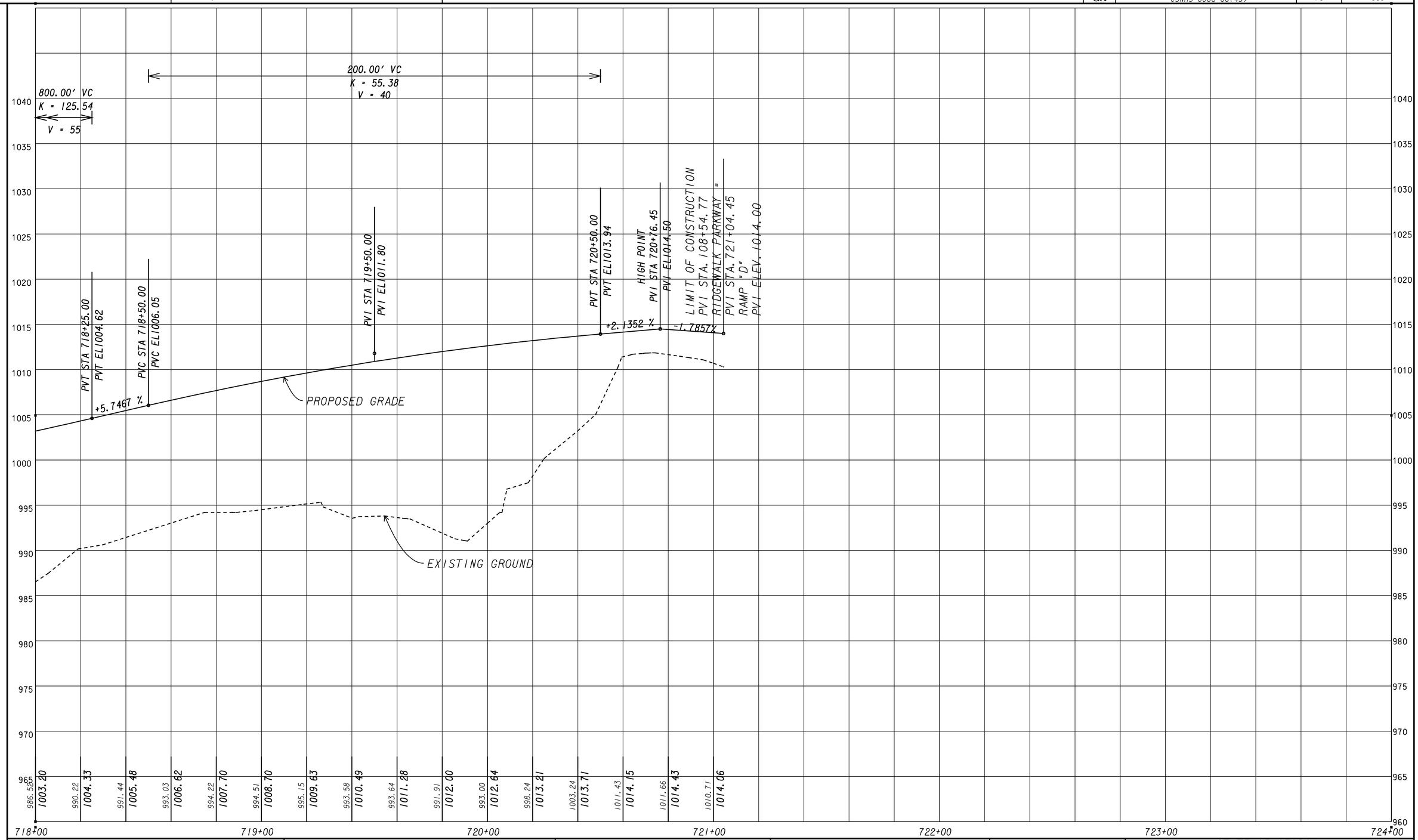
RAMP 'D'

DRAWING No. 16-003

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	76	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

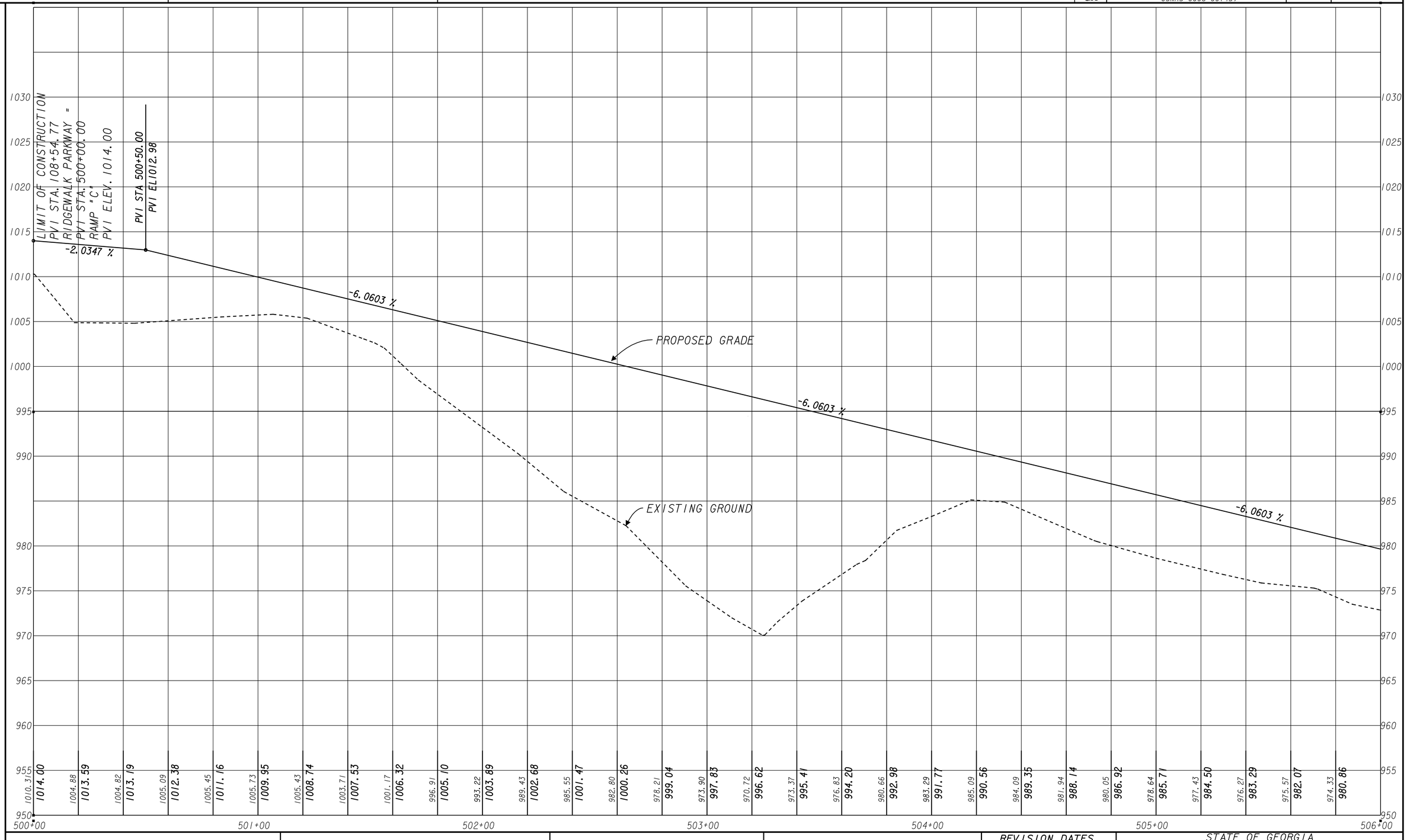
RAMP 'D'

DRAWING No. 16-004

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	77	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

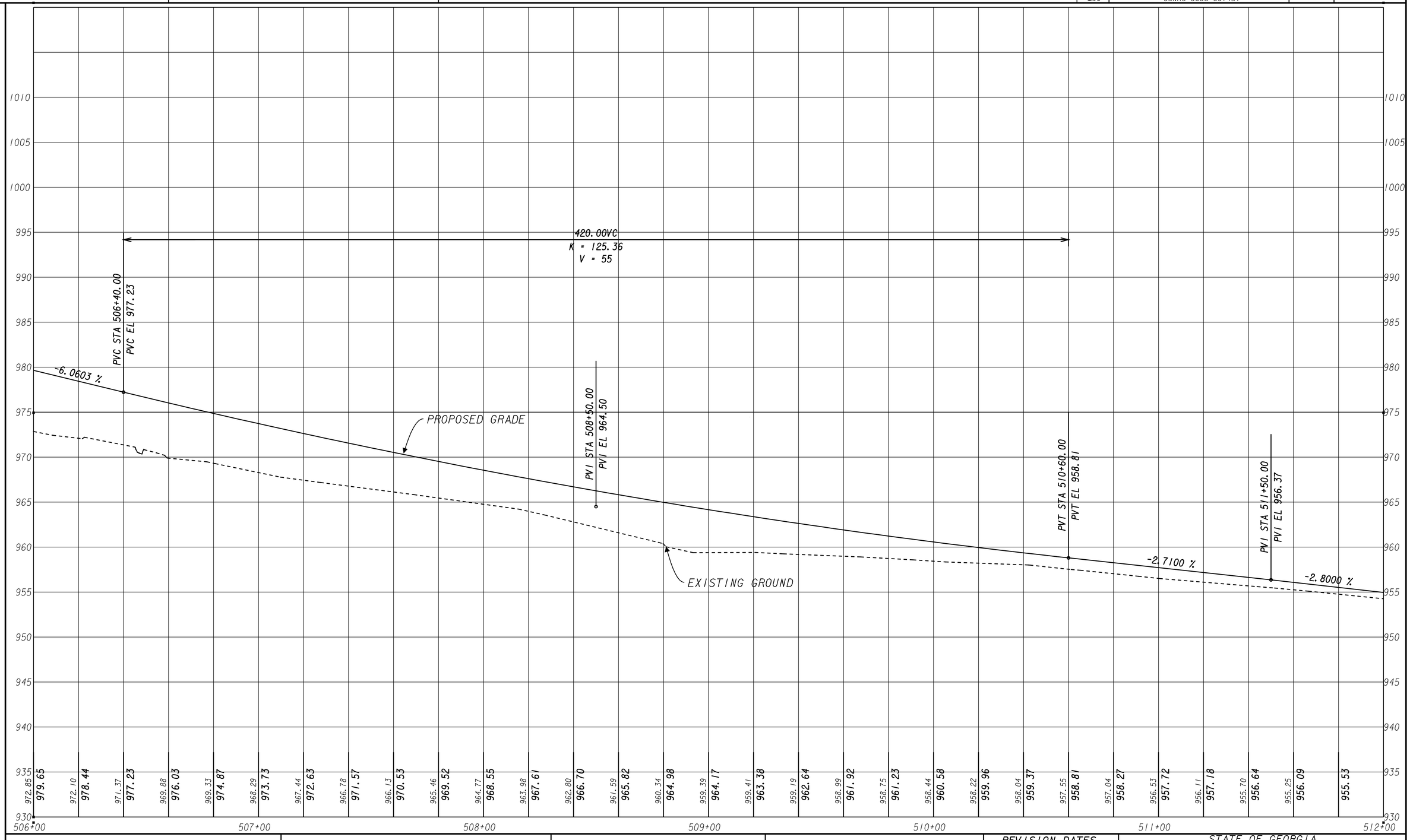
CROSSROAD PROFILE

RAMP "C"

DRAWING No. 16-005

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

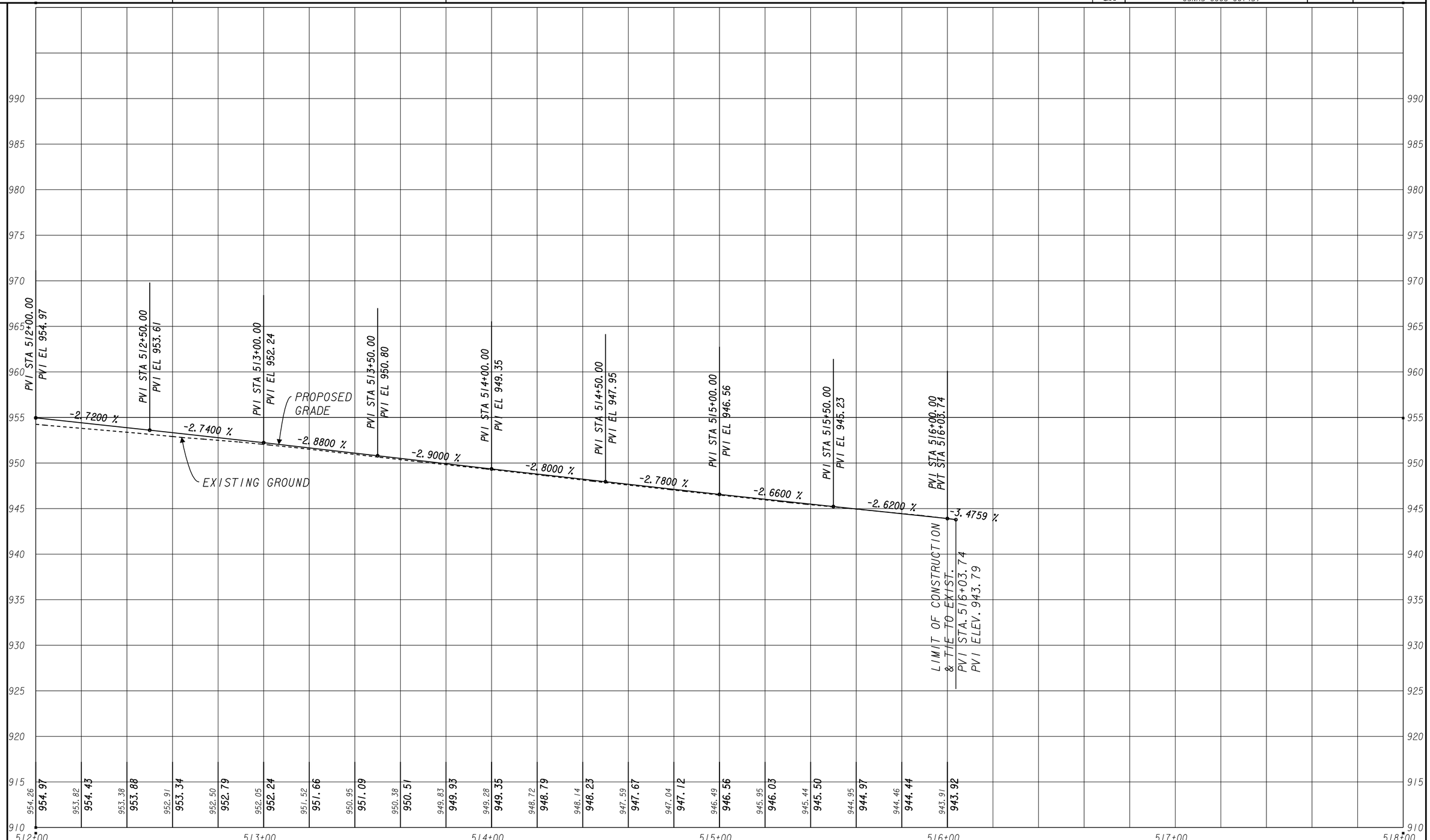
CROSSROAD PROFILE

RAMP "C"

DRAWING No. 16-006

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

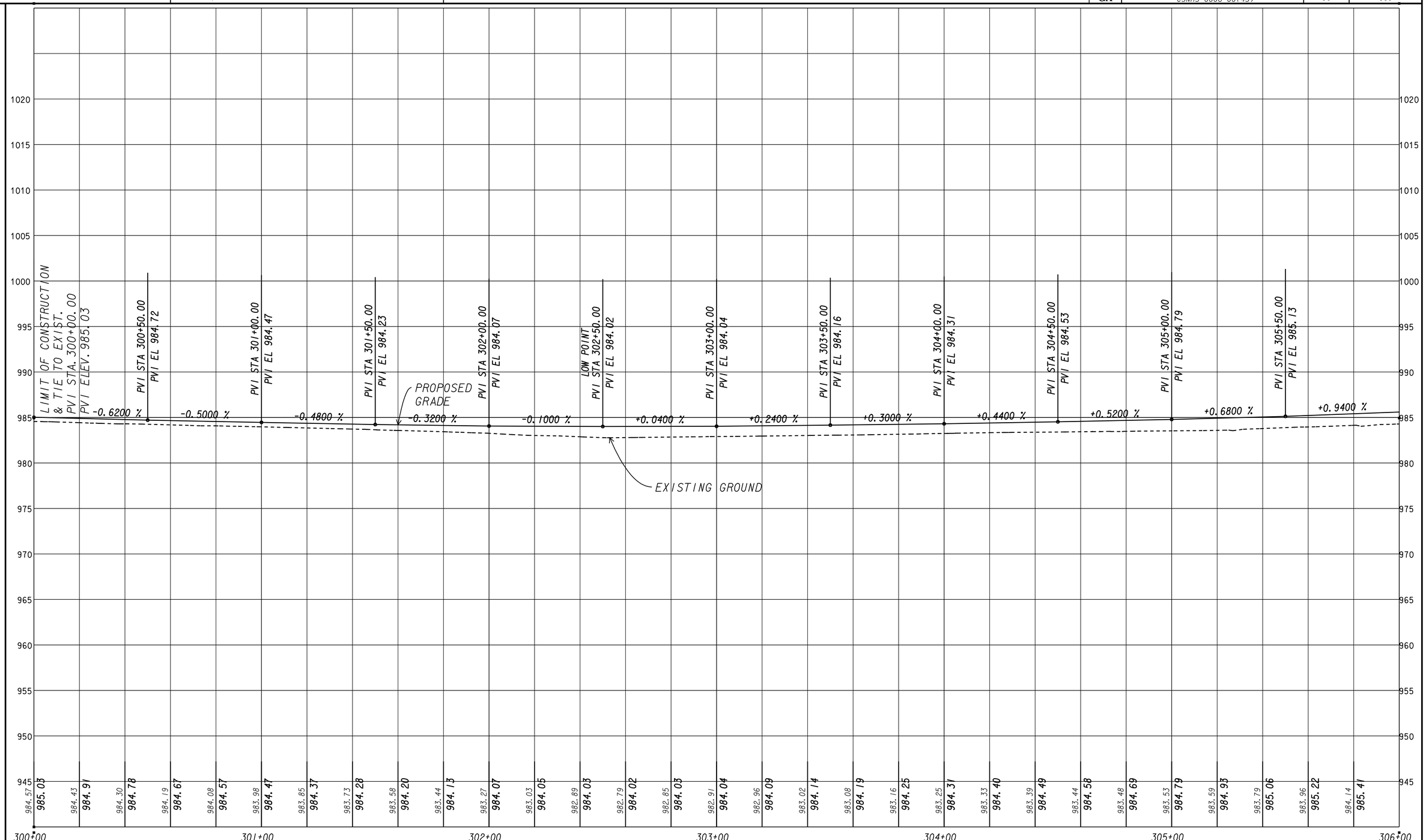
CROSSROAD PROFILE

RAMP "C"

DRAWING No. 16-007

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



1/5/2009 GRIEDG

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

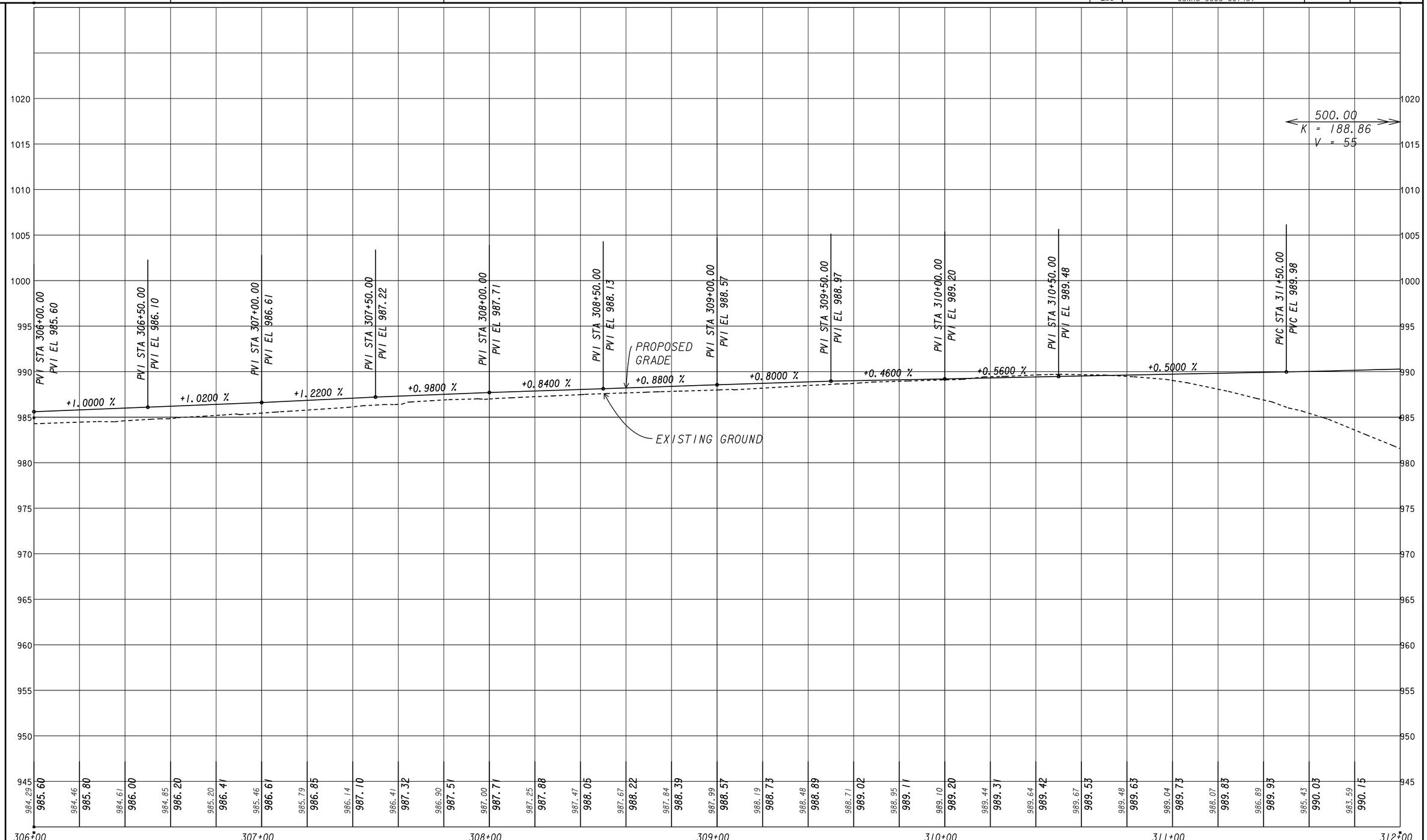
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RAMP "A"

DRAWING No. 16-008

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

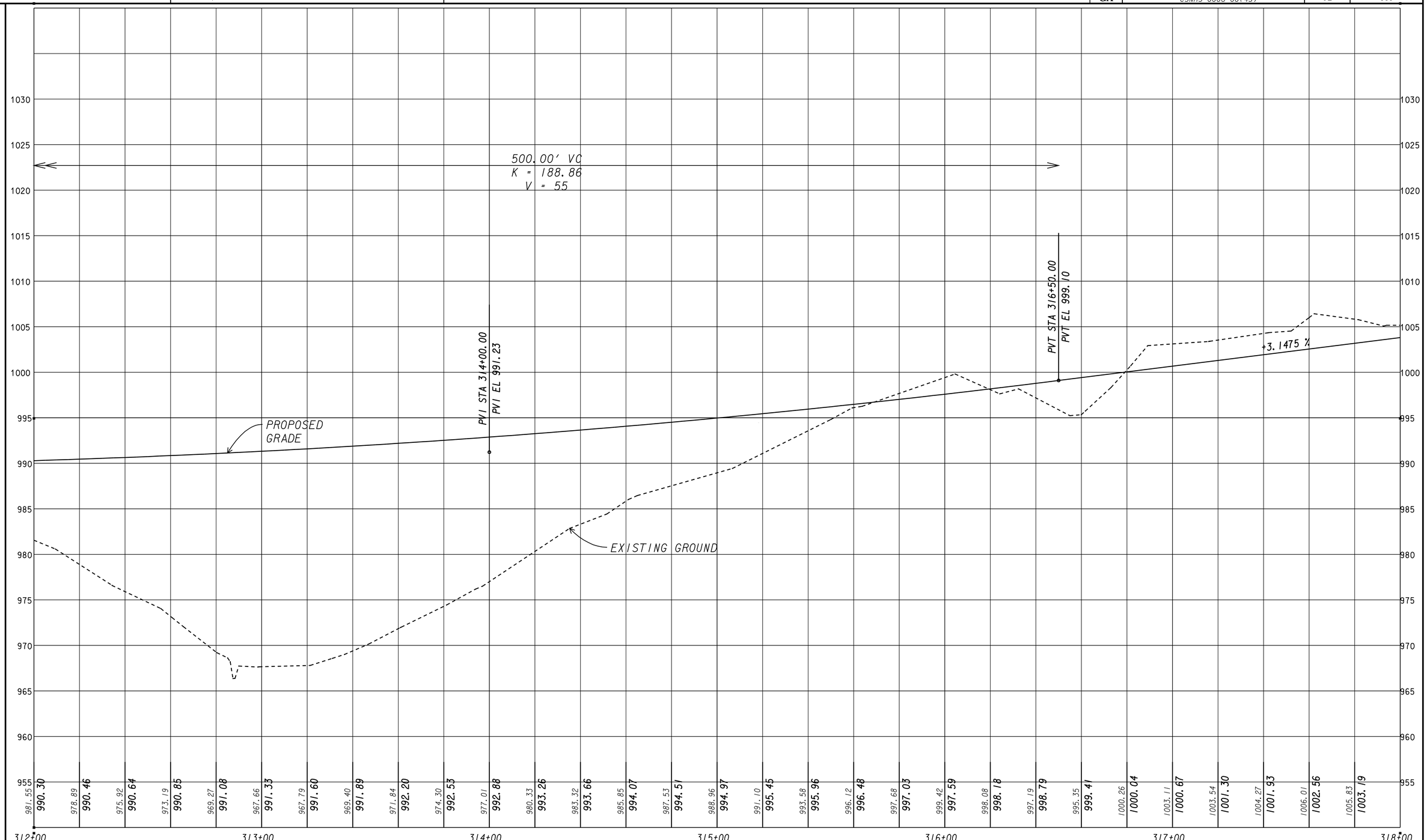
RAMP "A"

DRAWING No. 16-009

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	82	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

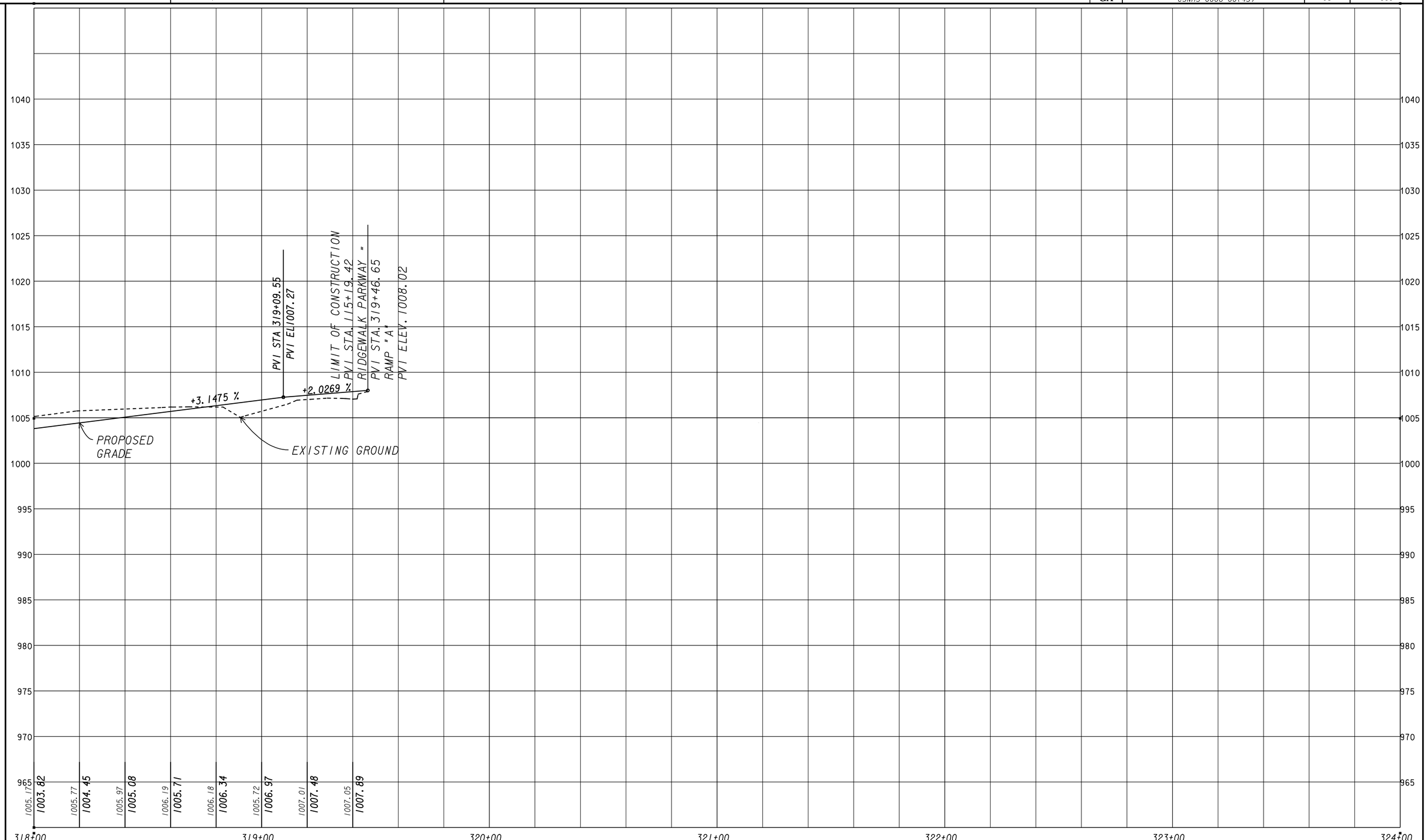
CROSSROAD PROFILE

RAMP "A"

DRAWING No. 16-010

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

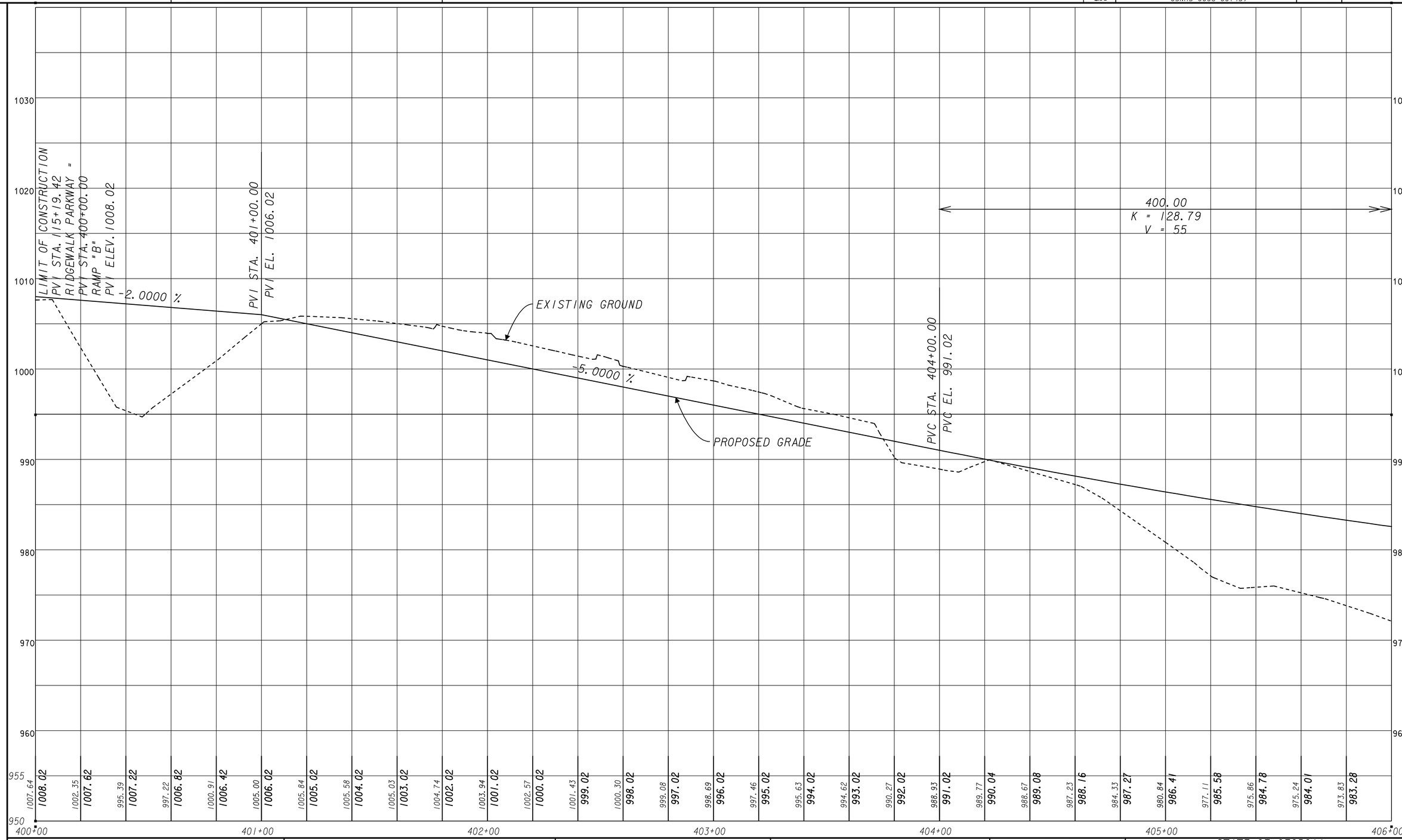
CROSSROAD PROFILE

RAMP "A"

DRAWING No. 16-011

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

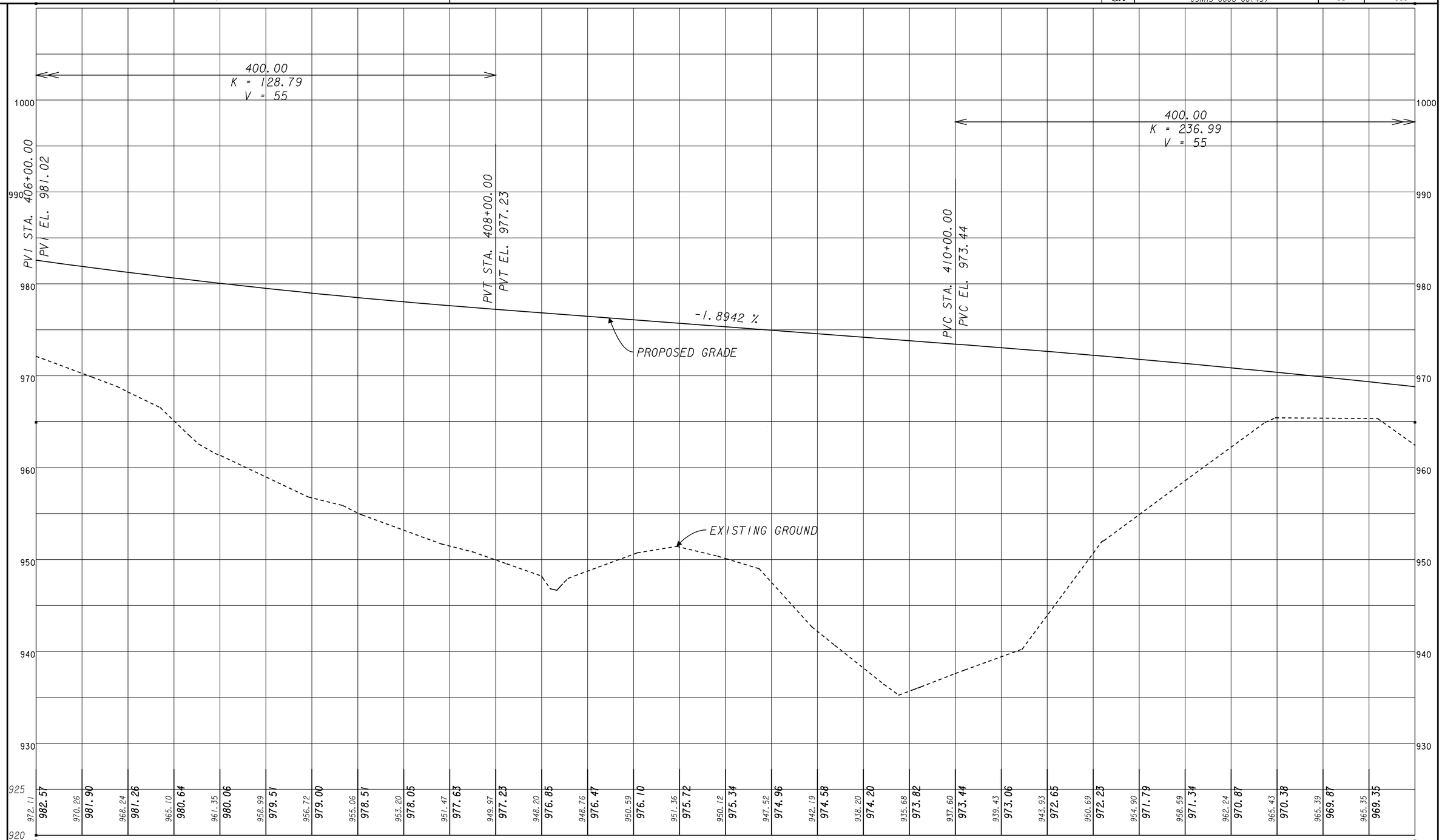
RAMP "B"

DRAWING No. 16-012

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	85	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

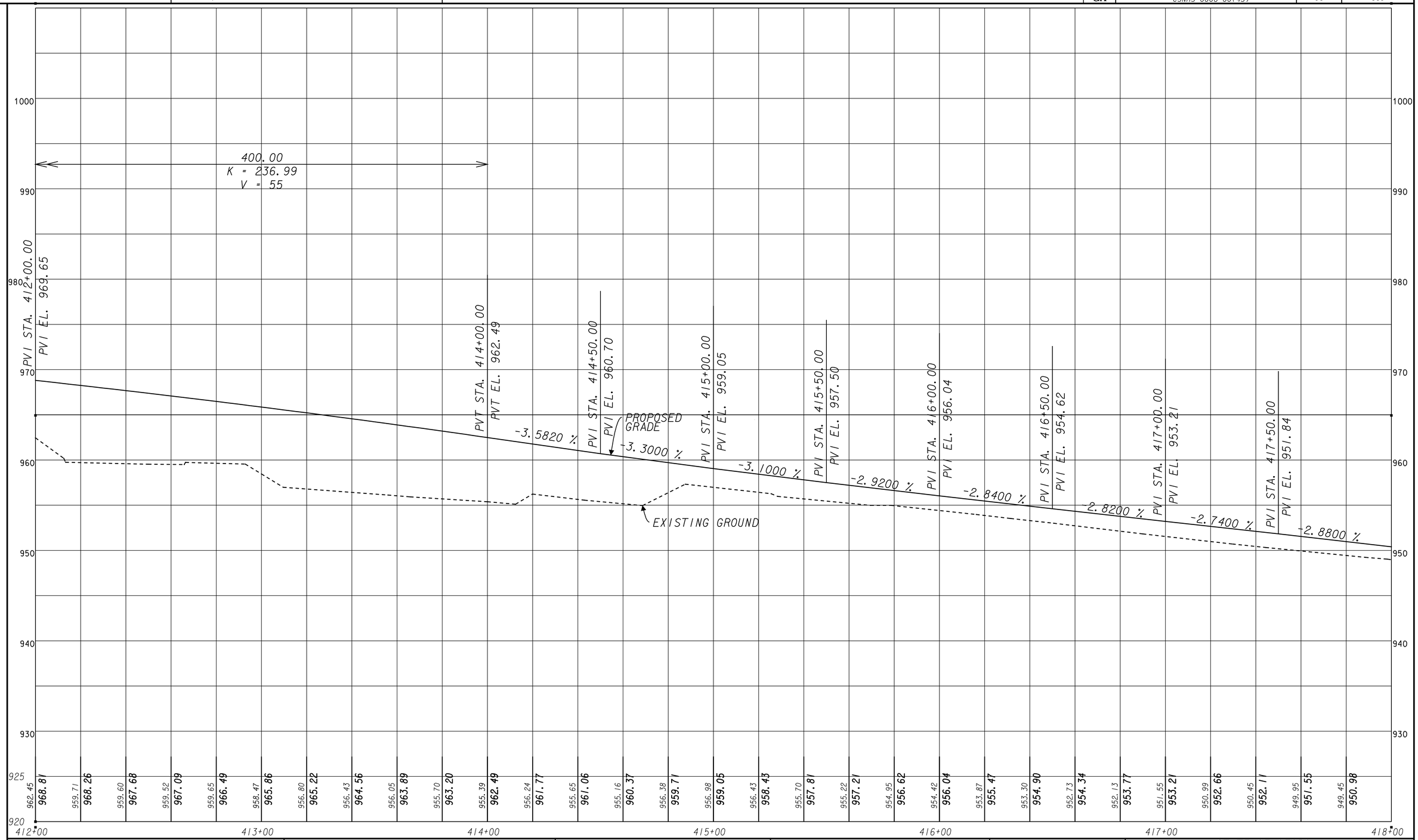
CROSSROAD PROFILE

RAMP "B"

DRAWING No. 16-013

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



1/5/2009 GRIEDG

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

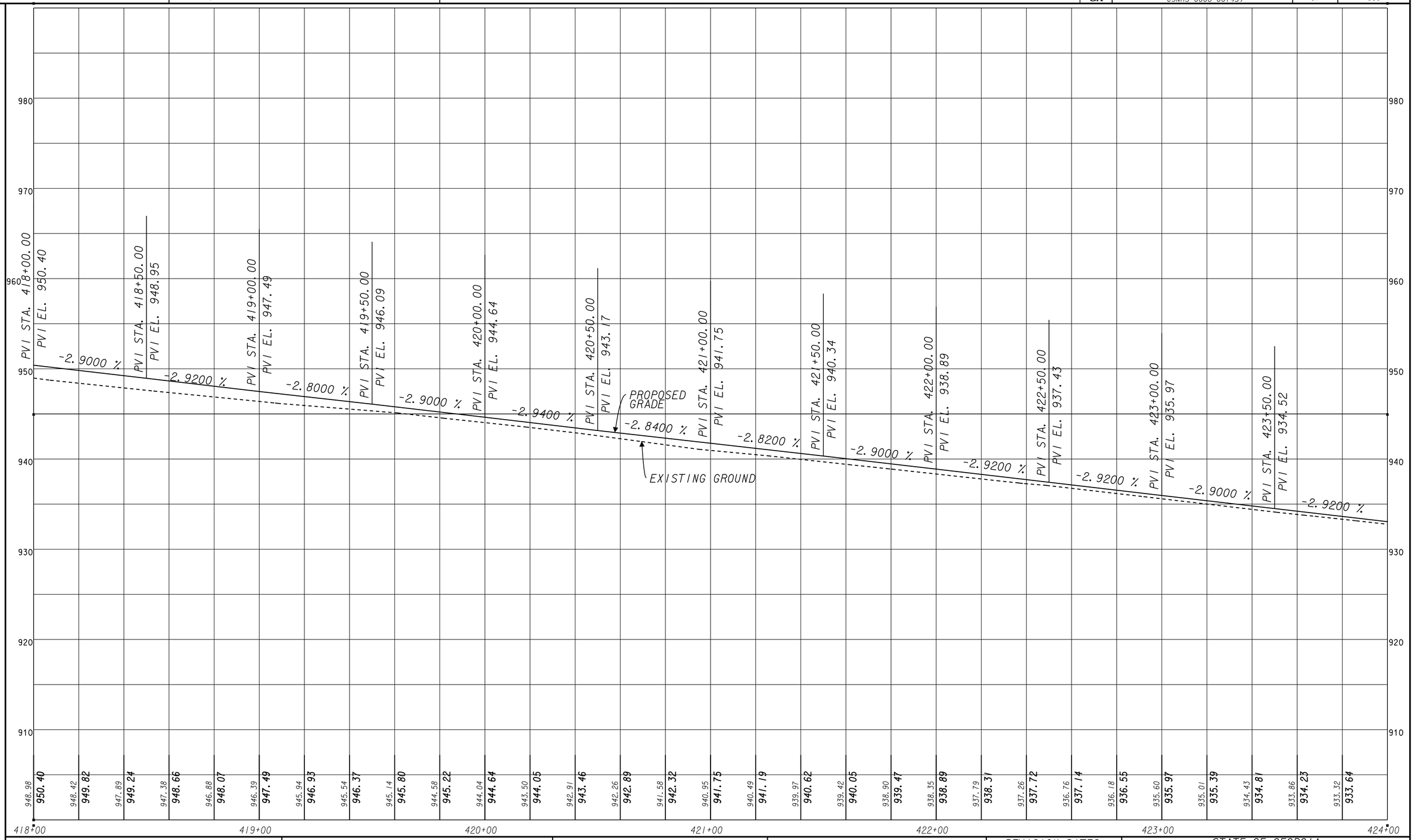
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RAMP "B"

DRAWING No. 16-014

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

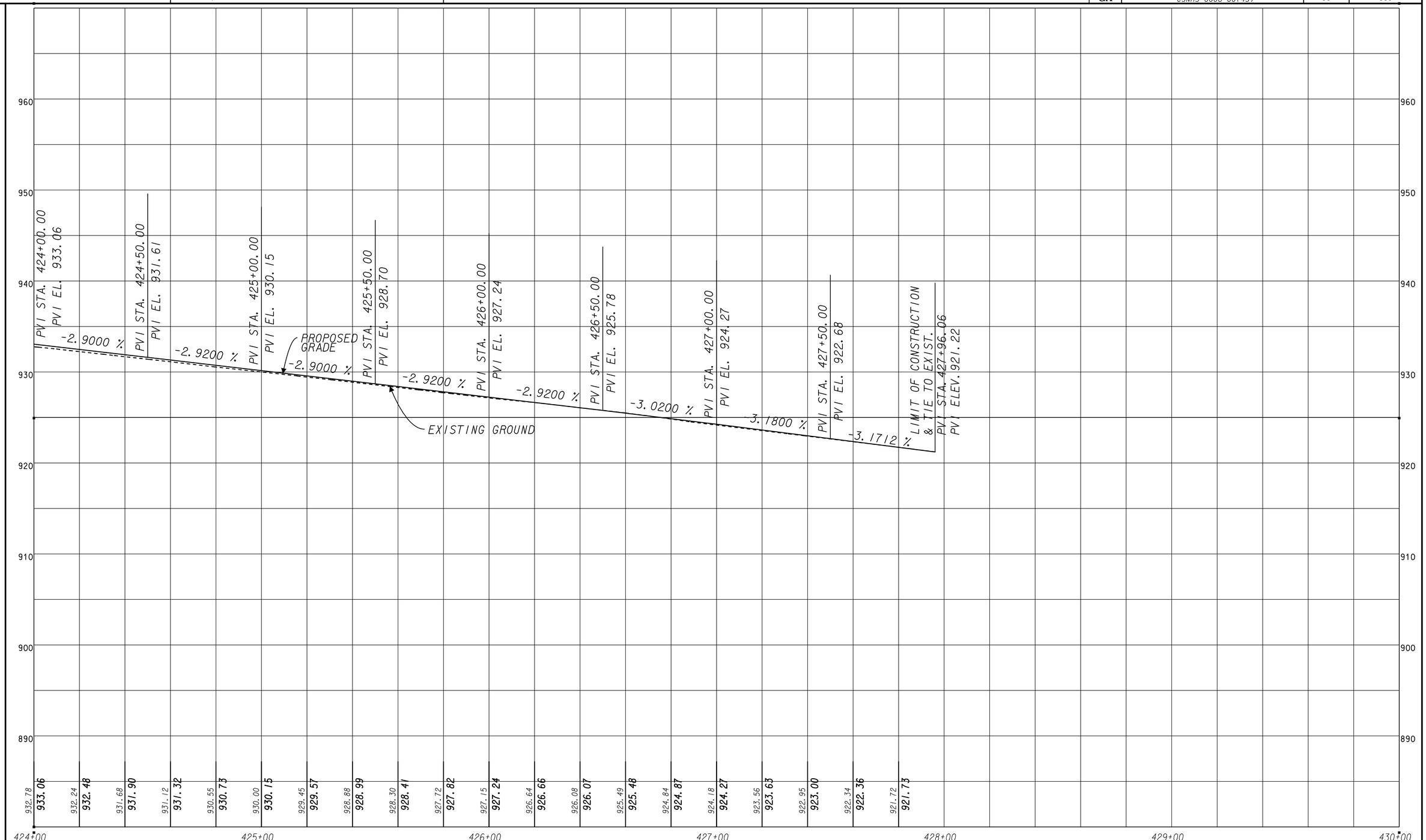
RAMP "B"

DRAWING No. 16-015

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	88	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RAMP "B"

DRAWING No. 16-016

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10

1/5/2009 GRIEDG

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 20 feet Horiz.

REVISION DATES		

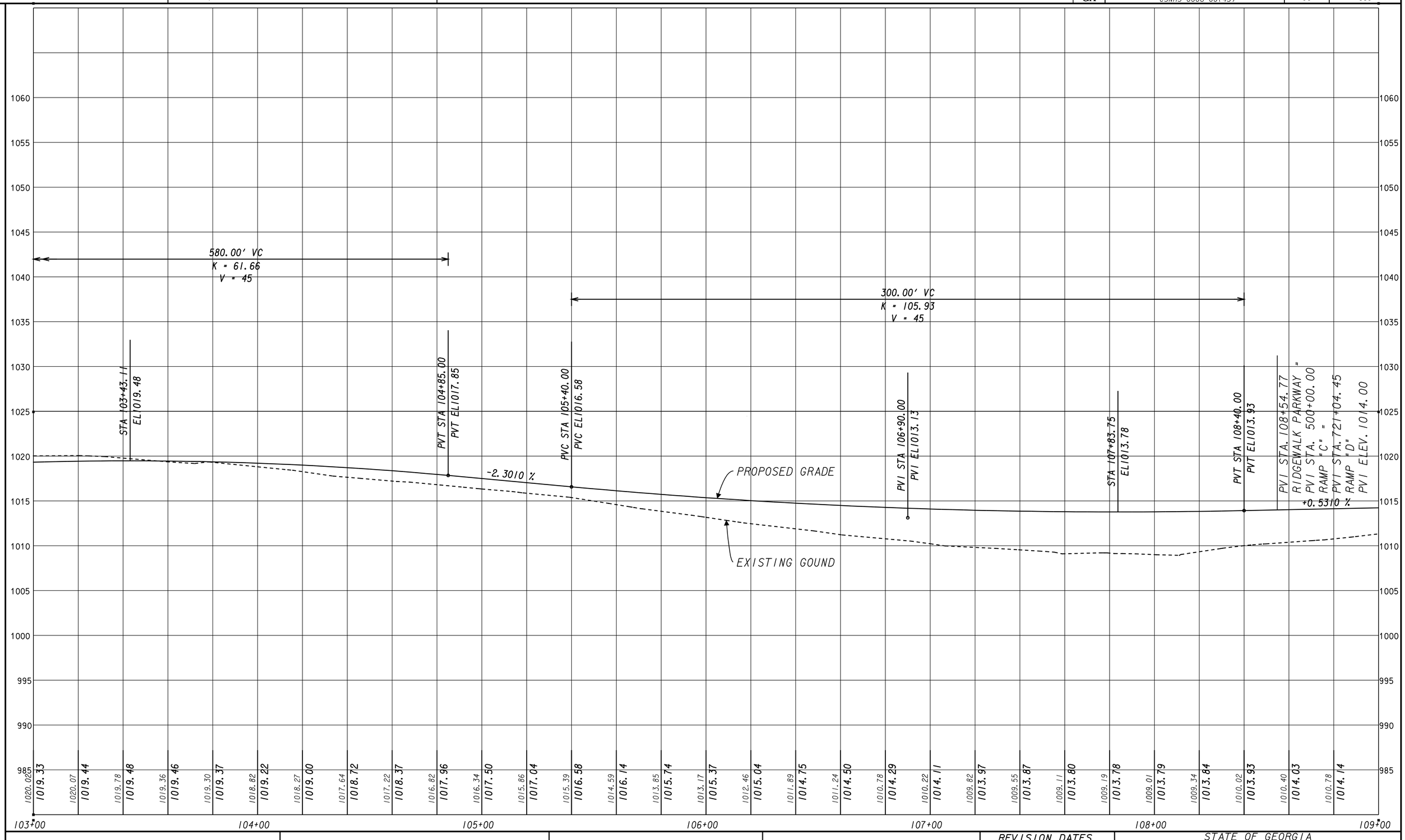
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RIDGEWALK PARKWAY

DRAWING No. 16-017

RELEASED FOR CONSTRUCTION 12/02/10



1/5/2009 GRIEDG

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

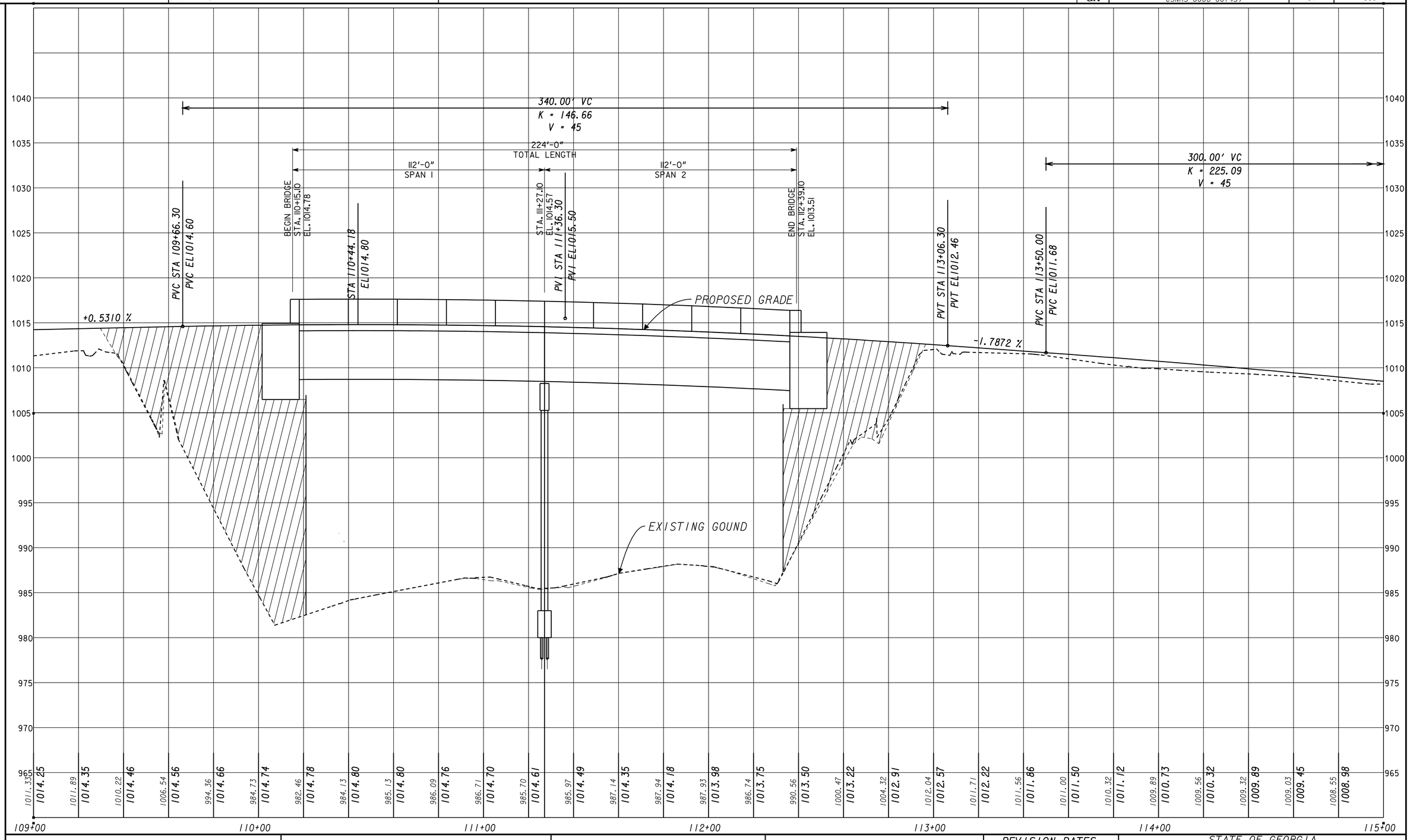
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RIDGEWALK PARKWAY

DRAWING No. 16-018

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

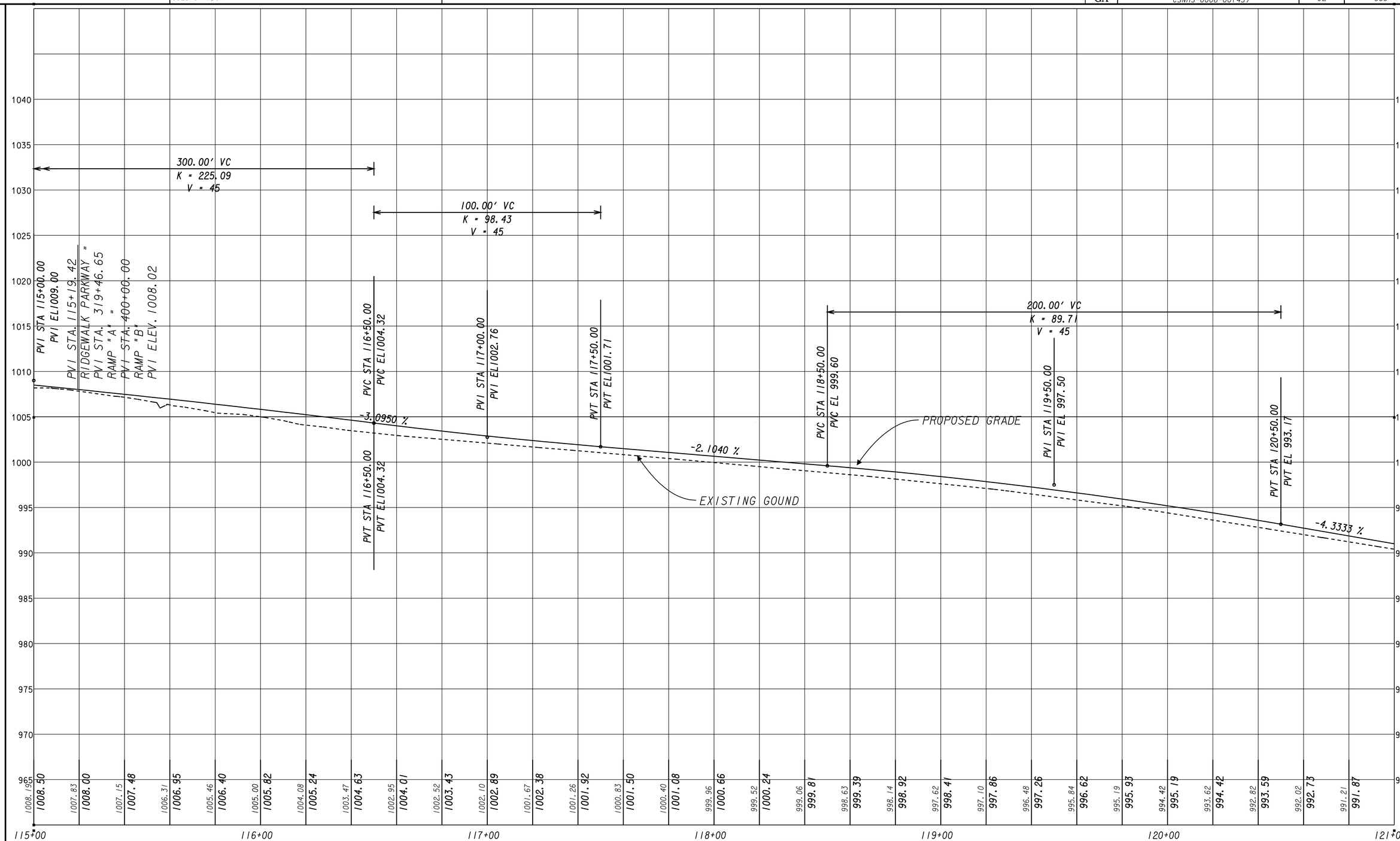
RIDGEWALK PARKWAY

DRAWING No. 16-019

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	92	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RIDGEWALK PARKWAY

DRAWING No. 16-020

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	93	668

RELEASED FOR CONSTRUCTION 12/02/10

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RIDGEWALK PARKWAY

DRAWING No. 16-021

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	94	668

RELEASED FOR CONSTRUCTION 12/02/10

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 20 feet Horiz.

REVISION DATES

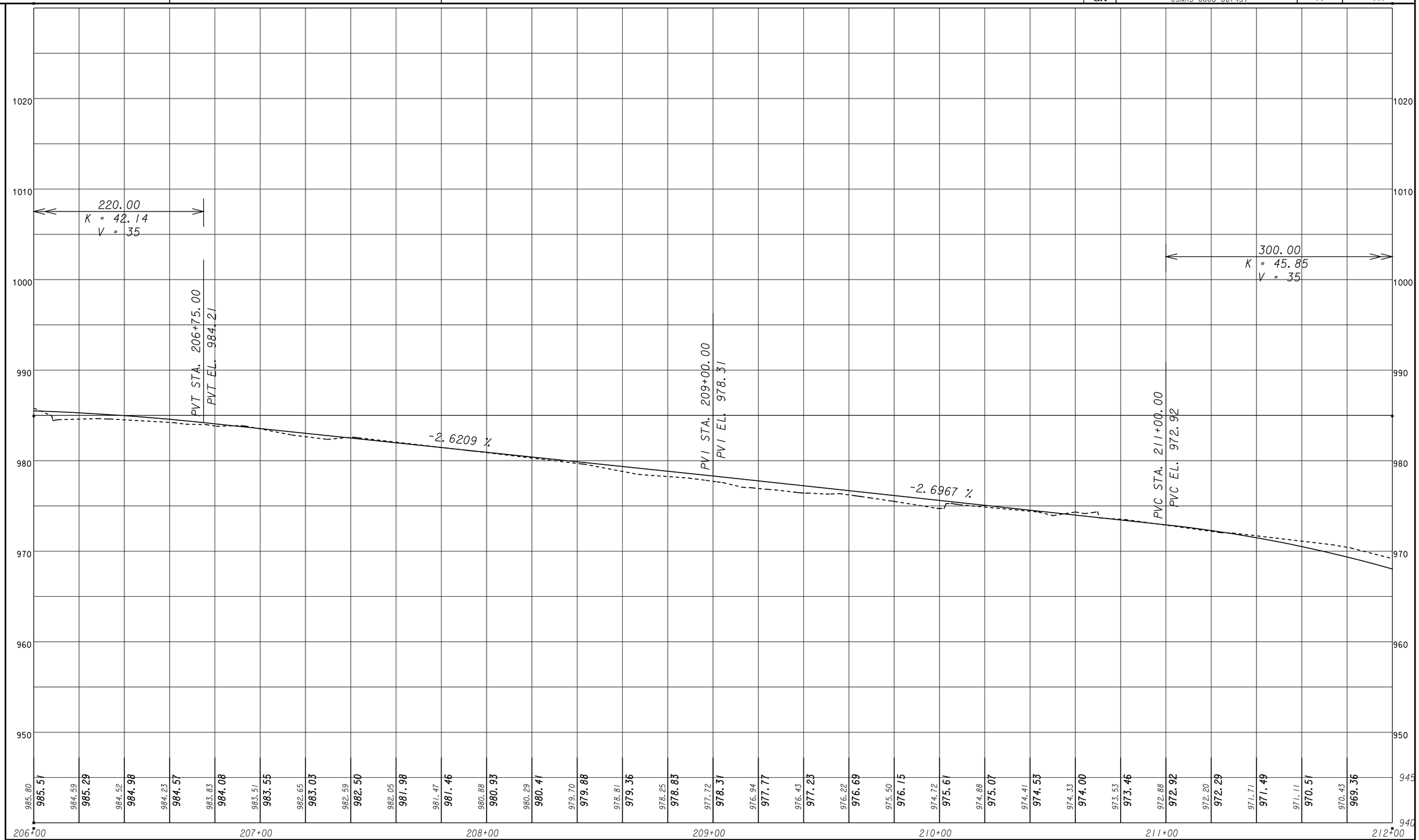
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RELOCATED ROPE MILL ROAD

DRAWING No. 16-022

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

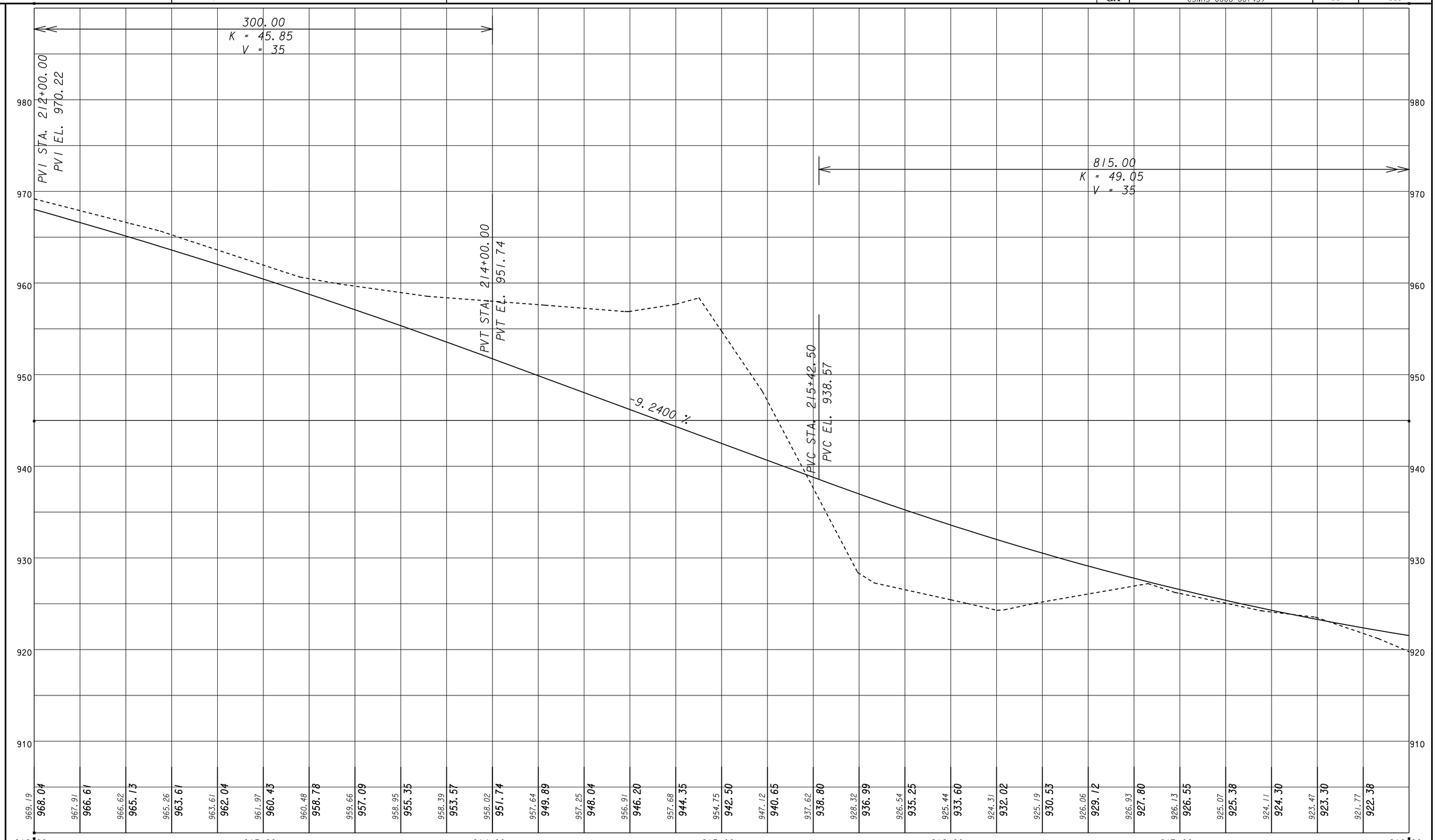
RELOCATED ROPE MILL ROAD

DRAWING No. 16-023

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	96	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

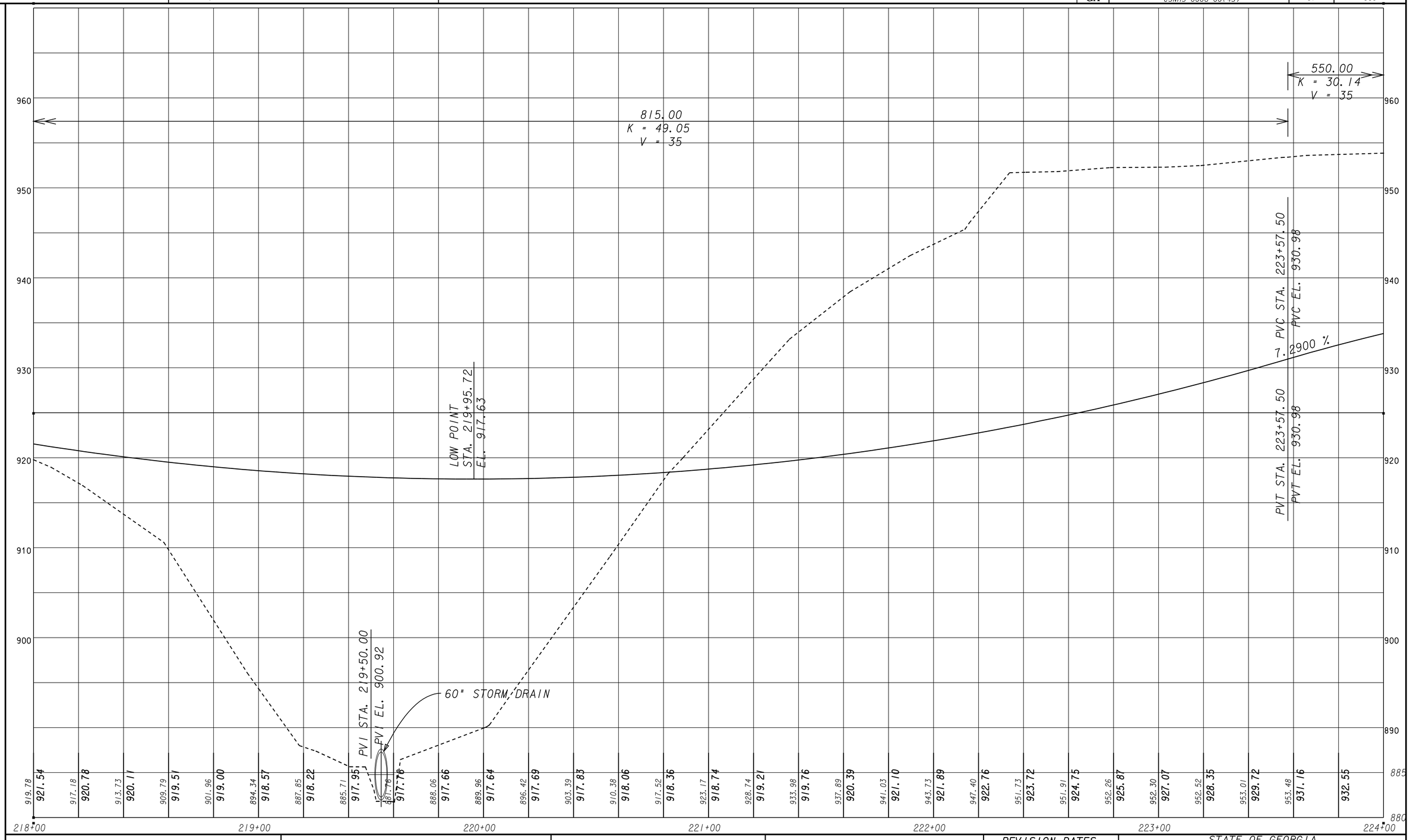
CROSSROAD PROFILE

RELOCATED ROPE MILL ROAD

DRAWING No. 16-024

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

RELOCATED ROPE MILL ROAD

DRAWING No. 16-025

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 inch = 5 feet Vert.
SCALE 1 inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSSROAD PROFILE

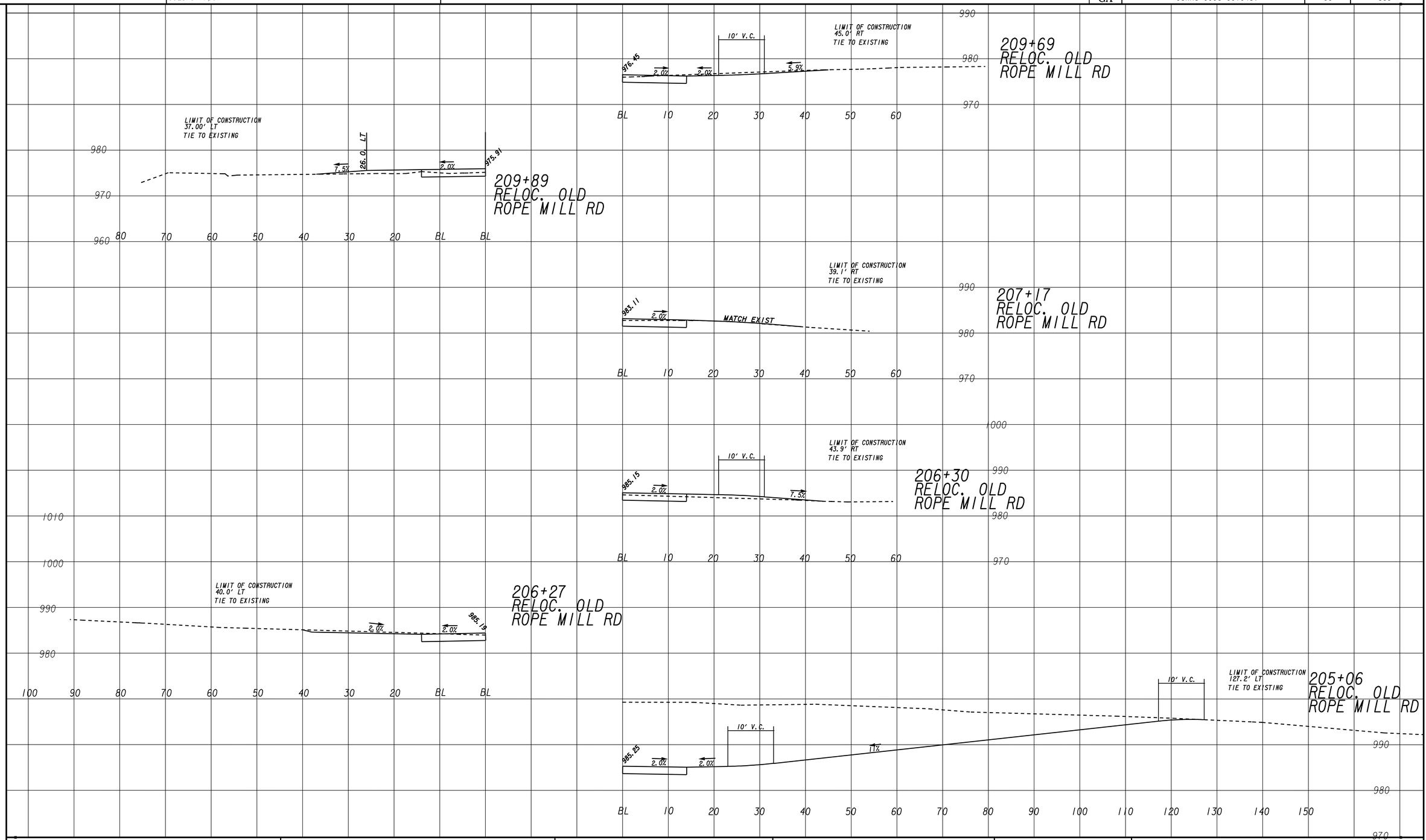
RELOCATED ROPE MILL ROAD

DRAWING No. 16-026

1/5/2009 GRIEDG

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	99	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRIVEWAY PROFILES

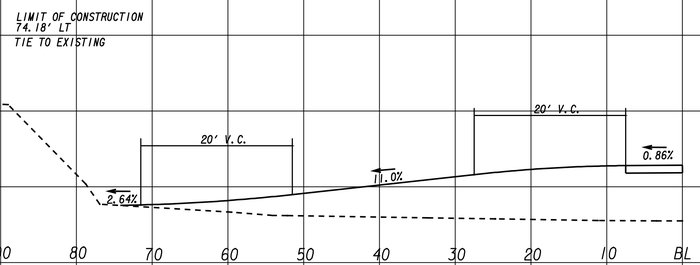
RIDGEWALK PARKWAY
OLD ROPE MILL ROAD

DRAWING No. 17-001

3/1/2007 SUYSEW

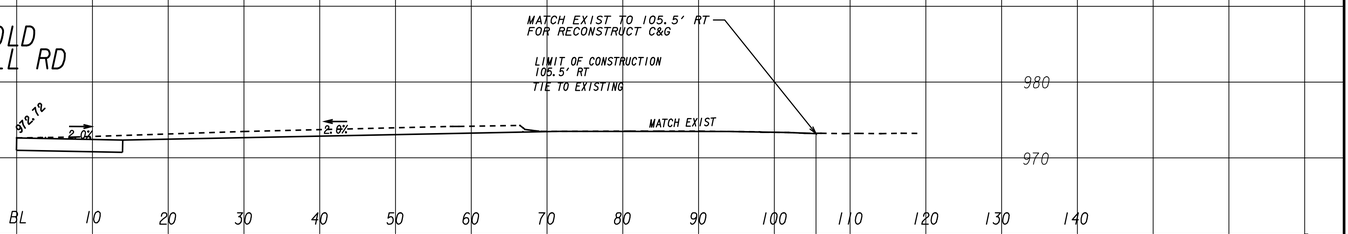
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	100	668

RELEASED FOR CONSTRUCTION 12/02/10



11+26
DRIVEWAY 'A'

211+07
RELOC. OLD
ROPE MILL RD



THE LPA GROUP
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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

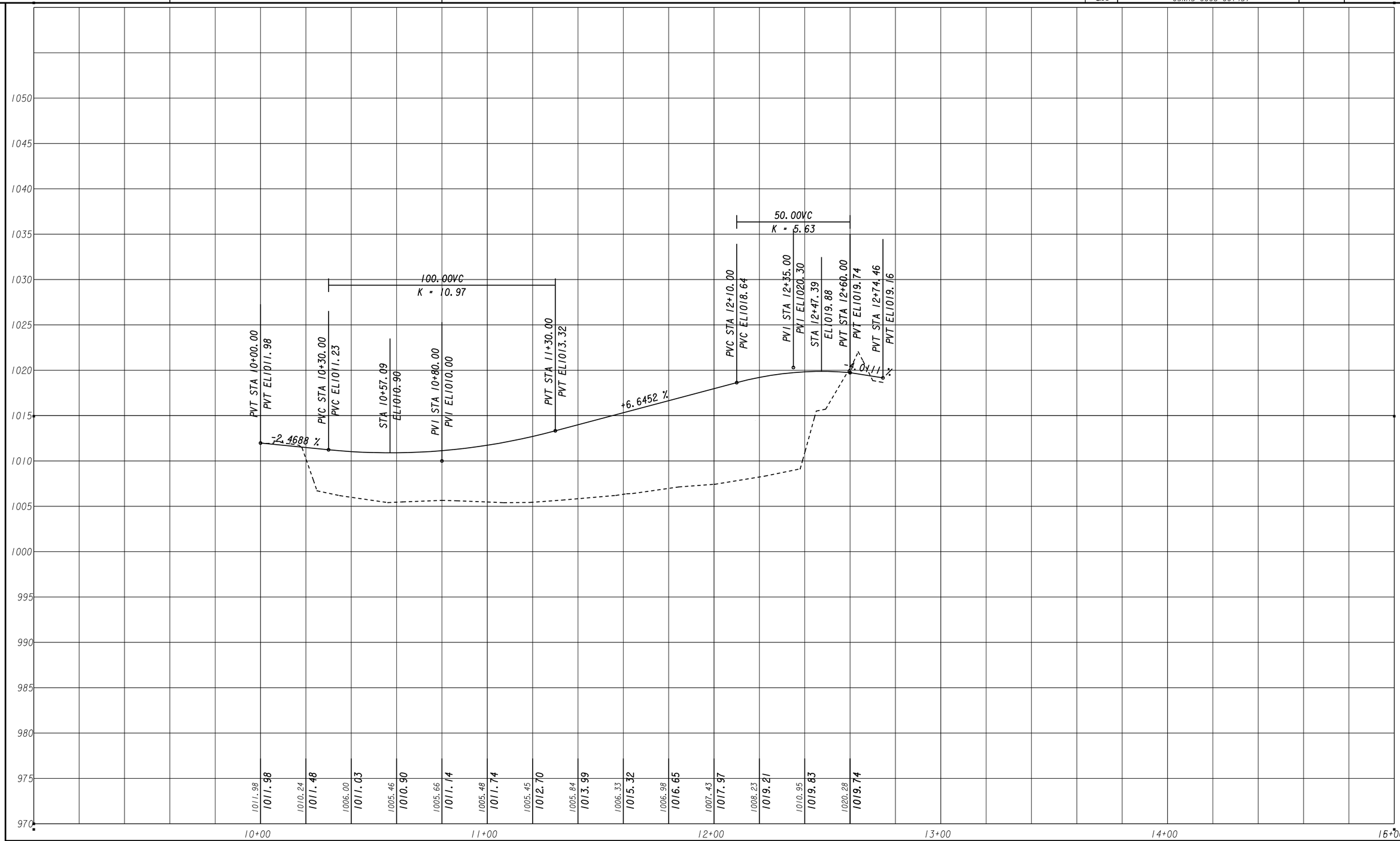
DRIVEWAY PROFILES

RIDGEWALK PARKWAY
OLD ROPE MILL ROAD

DRAWING No. 17-002

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE 1 Inch = 5 feet Vert.
SCALE 1 Inch = 20 feet Horiz.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRIVEWAY PROFILE

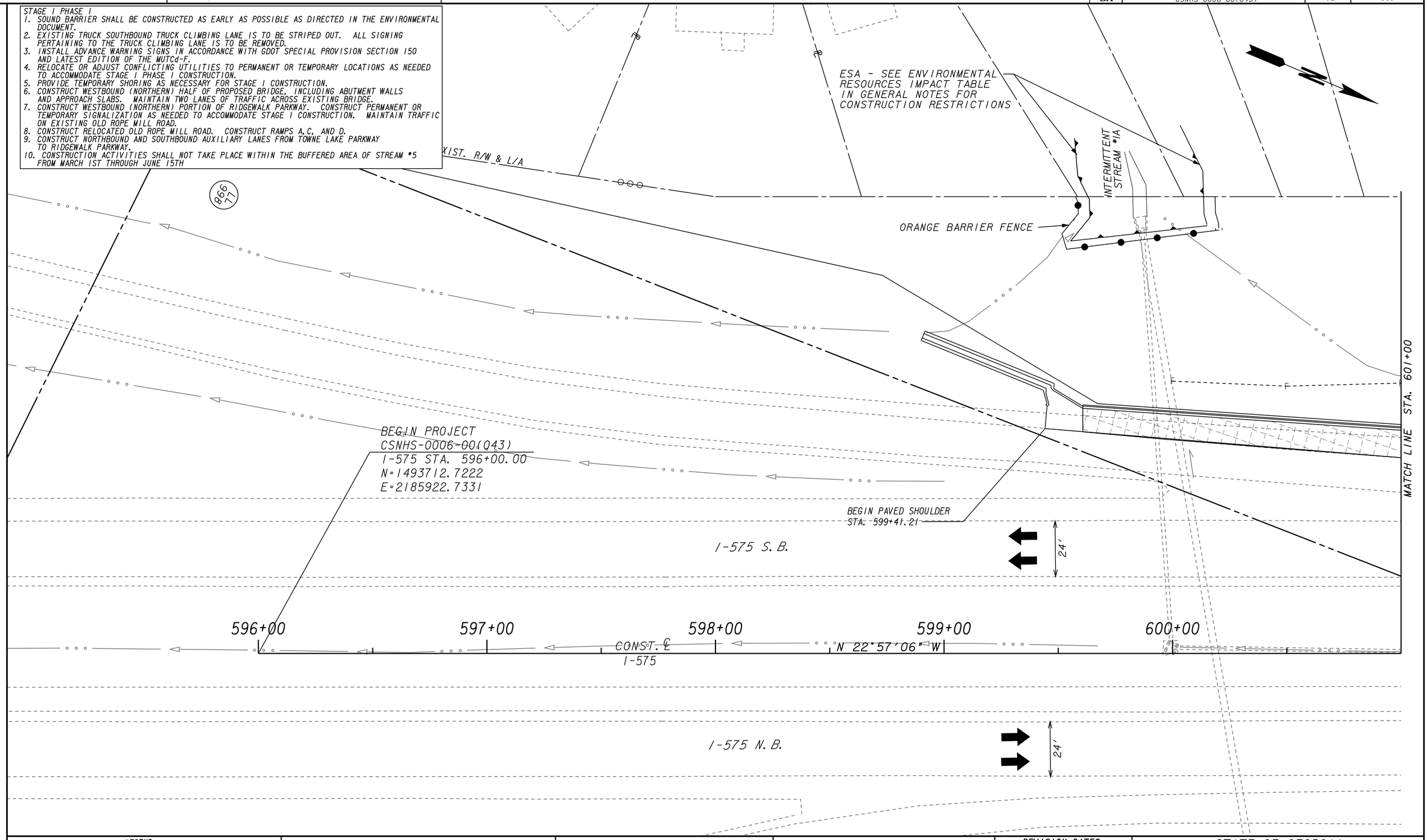
DRIVEWAY 'A'

DRAWING No. 17-003

1/5/2009 GRIEDG

RELEASED FOR CONSTRUCTION 12/02/10

STAGE 1 PHASE 1
1. SOUND BARRIER SHALL BE CONSTRUCTED AS EARLY AS POSSIBLE AS DIRECTED IN THE ENVIRONMENTAL DOCUMENT.
2. EXISTING TRUCK SOUTHBOUND TRUCK CLIMBING LANE IS TO BE STRIPED OUT. ALL SIGNING PERTAINING TO THE TRUCK CLIMBING LANE IS TO BE REMOVED.
3. INSTALL ADVANCE WARNING SIGNS IN ACCORDANCE WITH GDOT SPECIAL PROVISION SECTION 150 AND LATEST EDITION OF THE MUTCd-F.
4. RELOCATE OR ADJUST CONFLICTING UTILITIES TO PERMANENT OR TEMPORARY LOCATIONS AS NEEDED TO ACCOMMODATE STAGE 1 PHASE 1 CONSTRUCTION.
5. PROVIDE TEMPORARY SHORING AS NECESSARY FOR STAGE 1 CONSTRUCTION.
6. CONSTRUCT WESTBOUND (NORTHERN) HALF OF PROPOSED BRIDGE, INCLUDING ABUTMENT WALLS AND APPROACH SLABS. MAINTAIN TWO LANES OF TRAFFIC ACROSS EXISTING BRIDGE.
7. CONSTRUCT WESTBOUND (NORTHERN) PORTION OF RIDGEWALK PARKWAY. CONSTRUCT PERMANENT OR TEMPORARY SIGNALIZATION AS NEEDED TO ACCOMMODATE STAGE 1 CONSTRUCTION. MAINTAIN TRAFFIC ON EXISTING OLD ROPE MILL ROAD.
8. CONSTRUCT RELOCATED OLD ROPE MILL ROAD. CONSTRUCT RAMPS A,C, AND D.
9. CONSTRUCT NORTHBOUND AND SOUTHBOUND AUXILIARY LANES FROM TOWNE LAKE PARKWAY TO RIDGEWALK PARKWAY.
10. CONSTRUCTION ACTIVITIES SHALL NOT TAKE PLACE WITHIN THE BUFFERED AREA OF STREAM *5 FROM MARCH 1ST THROUGH JUNE 15TH



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

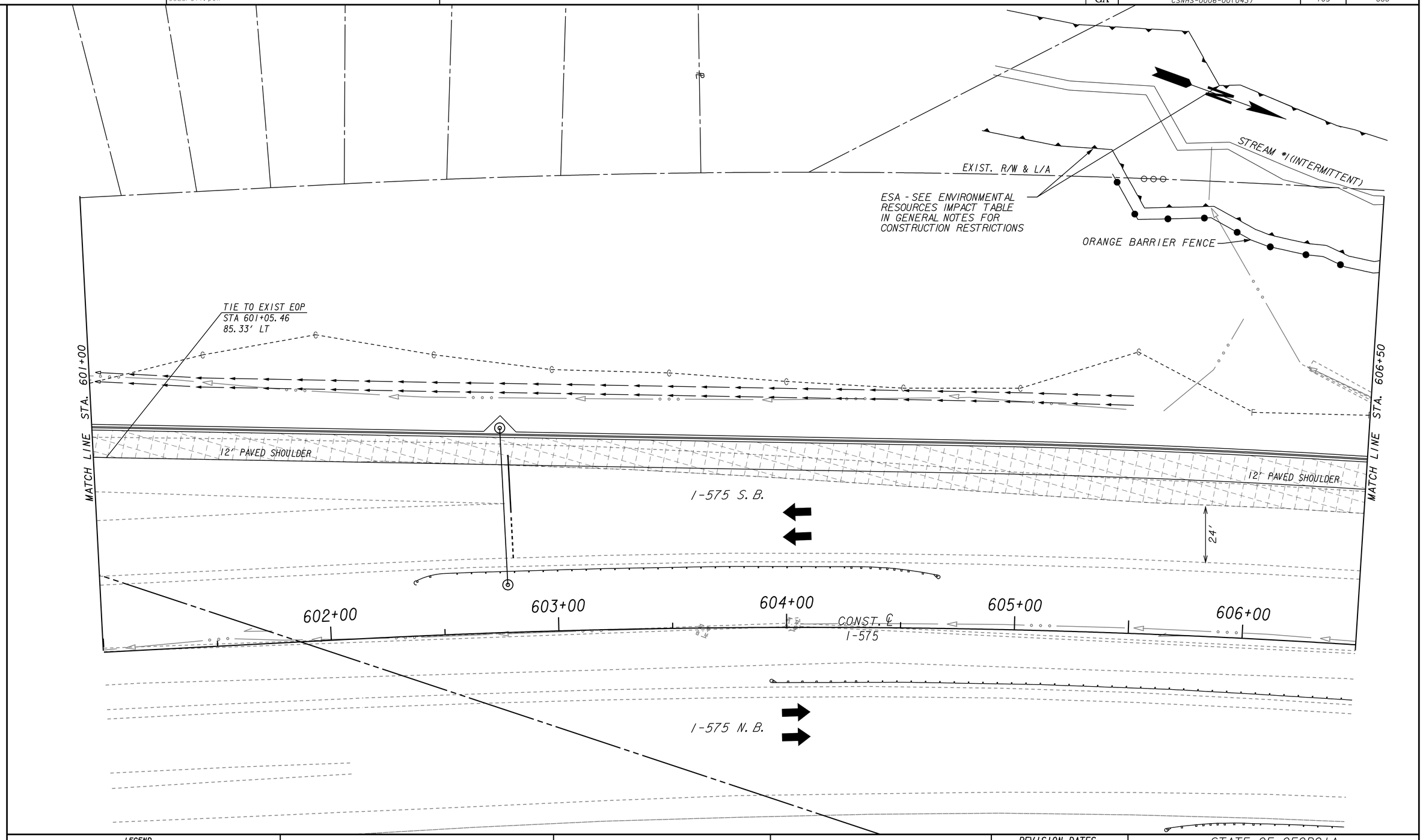
I-575 SB AUXILIARY LANE
BEGIN PROJECT TO STA. 601+00

DRAWING No. 19-001

1/5/2009 GPLN

06-DEC-2010 11:08	TIME***	006043ST02-1A	R:\07400004\006043\DGN\006043ST02-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	103	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 601+00 TO STA. 606+50

DRAWING No. 19-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

STREAM #1 (NON-BUFFERED STATE WATER) EPHEMERAL DRAINAGE

EXIST. R/W & L/A

ORANGE BARRIER FENCE

RIP RAP TP 3 9 SY

18"

MATCH LINE STA. 606+50

MATCH LINE STA. 612+00

12' PAVED SHOULDER

12' PAVED SHOULDER

24'

I-575 S.B.

I-575 N.B.

607+00 608+00 609+00 610+00 611+00

CONST. ℄ I-575

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 606+50 TO STA. 612+50

DRAWING No. 19-003

1/5/2009 GPLN

06-DEC-2010 11:09 JParks	TIME$$$ 006043ST04-1A 8825Full.pen	R:\07400004\006043\DGN\006043ST04-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	105	668

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

STREAM #3 (PERENNIAL)

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

RIP RAP TP 3 9 SY

ORANGE BARRIER FENCE

RIP RAP TP 3 9 SY

18"

MATCH LINE STA. 612+00

MATCH LINE STA. 617+50

12' PAVED SHOULDER

12'

12'

24'

I-575 S. B.

613+00

614+00

615+00

616+00

617+00

CONST. ℄ I-575

I-575 N. B.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

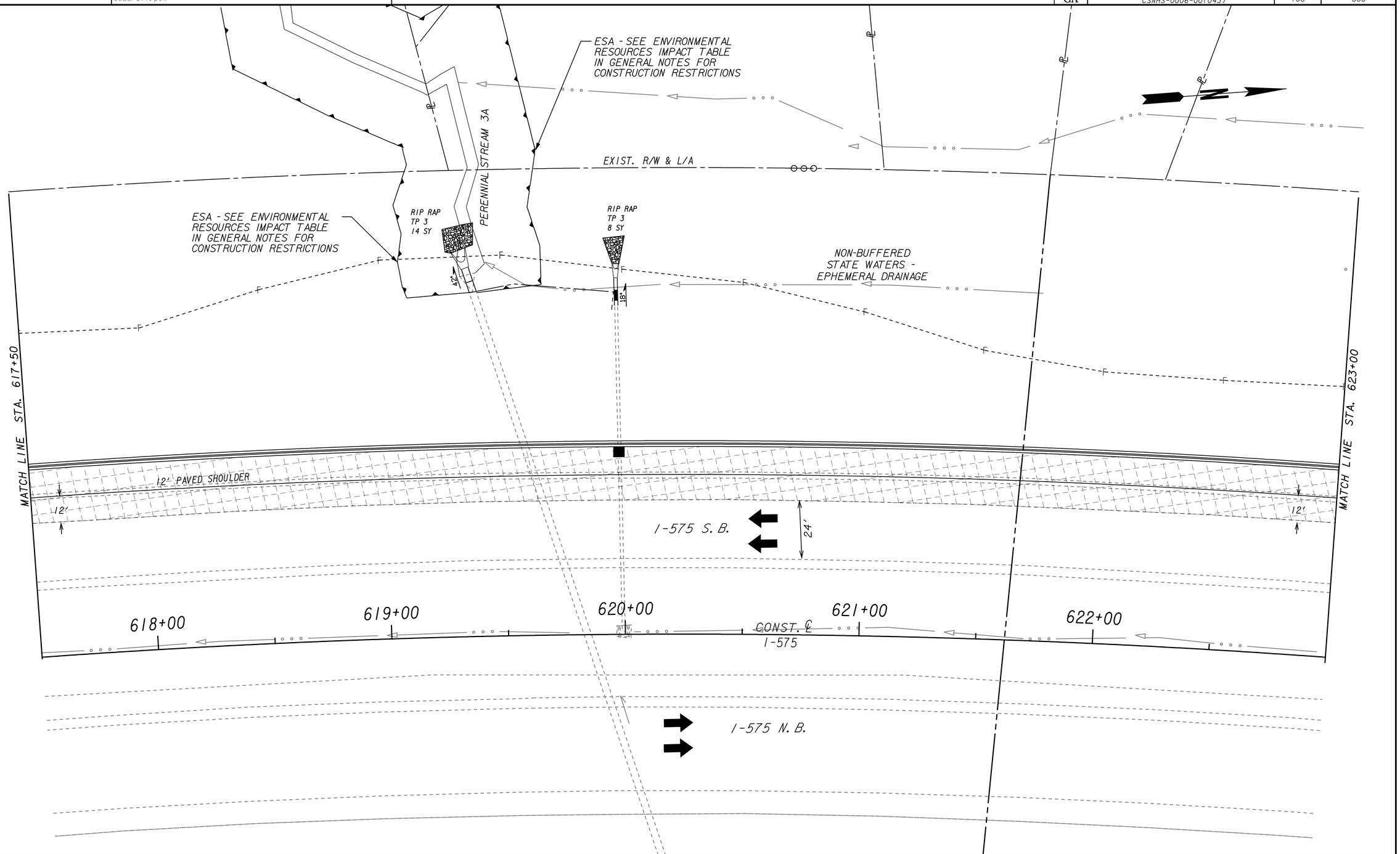
CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 612+00 TO STA. 617+50

DRAWING No. 19-004

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 617+50 TO STA. 623+00

DRAWING No. 19-005

1/5/2009 GPLN

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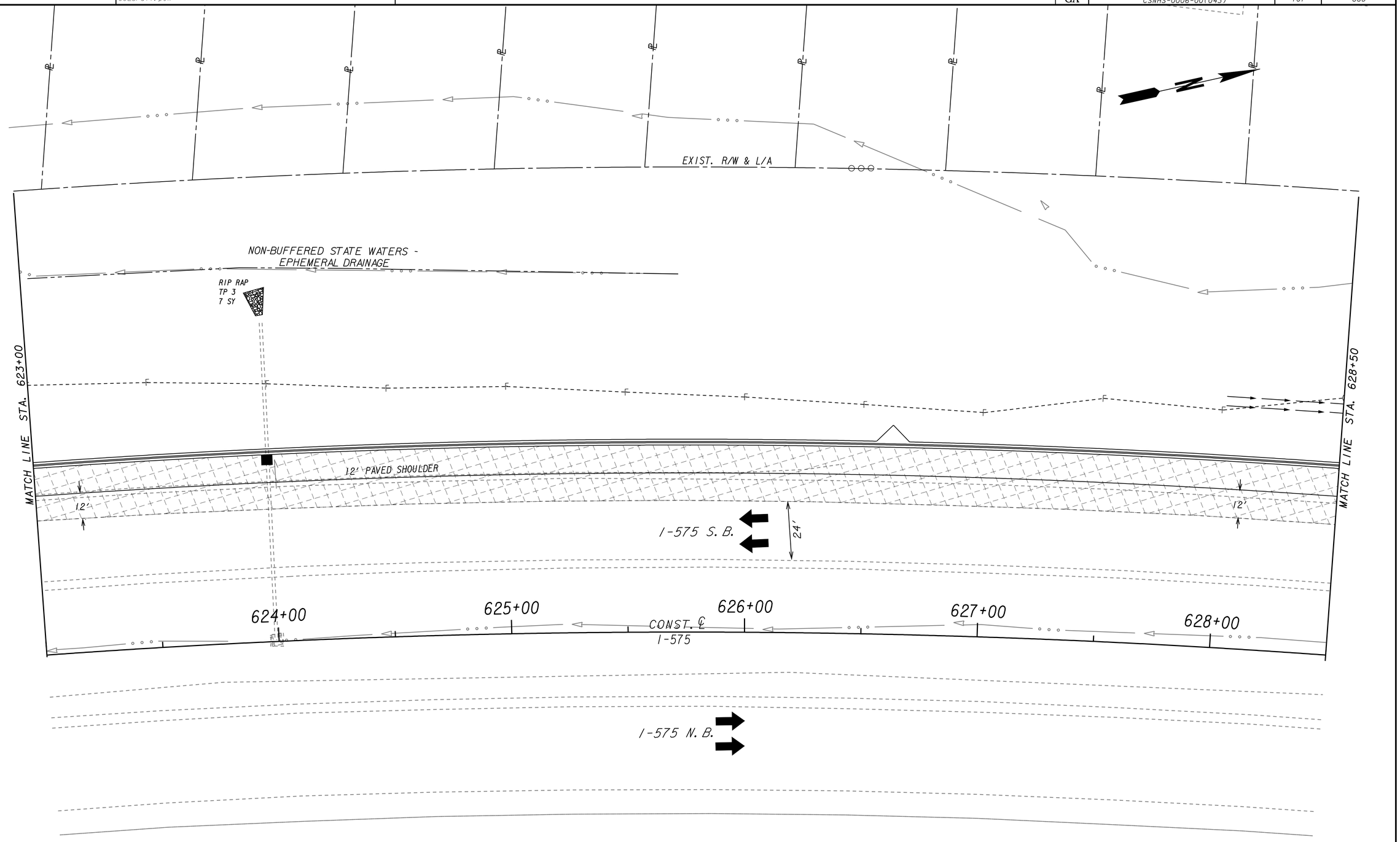
			GA	CSNHS-0006-00(043)	107	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

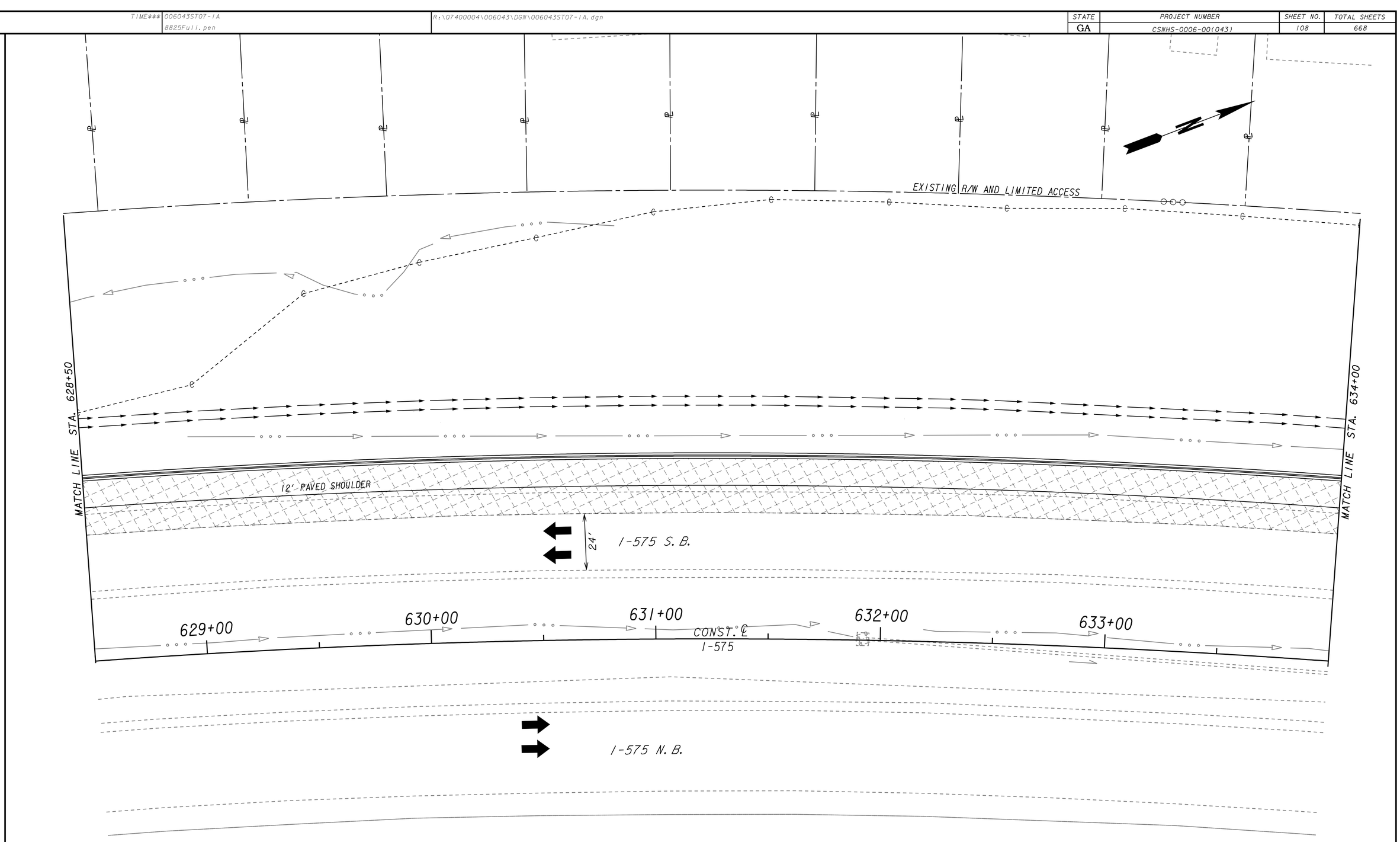
CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 623+00 TO STA. 628+50

DRAWING No. 19-006

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

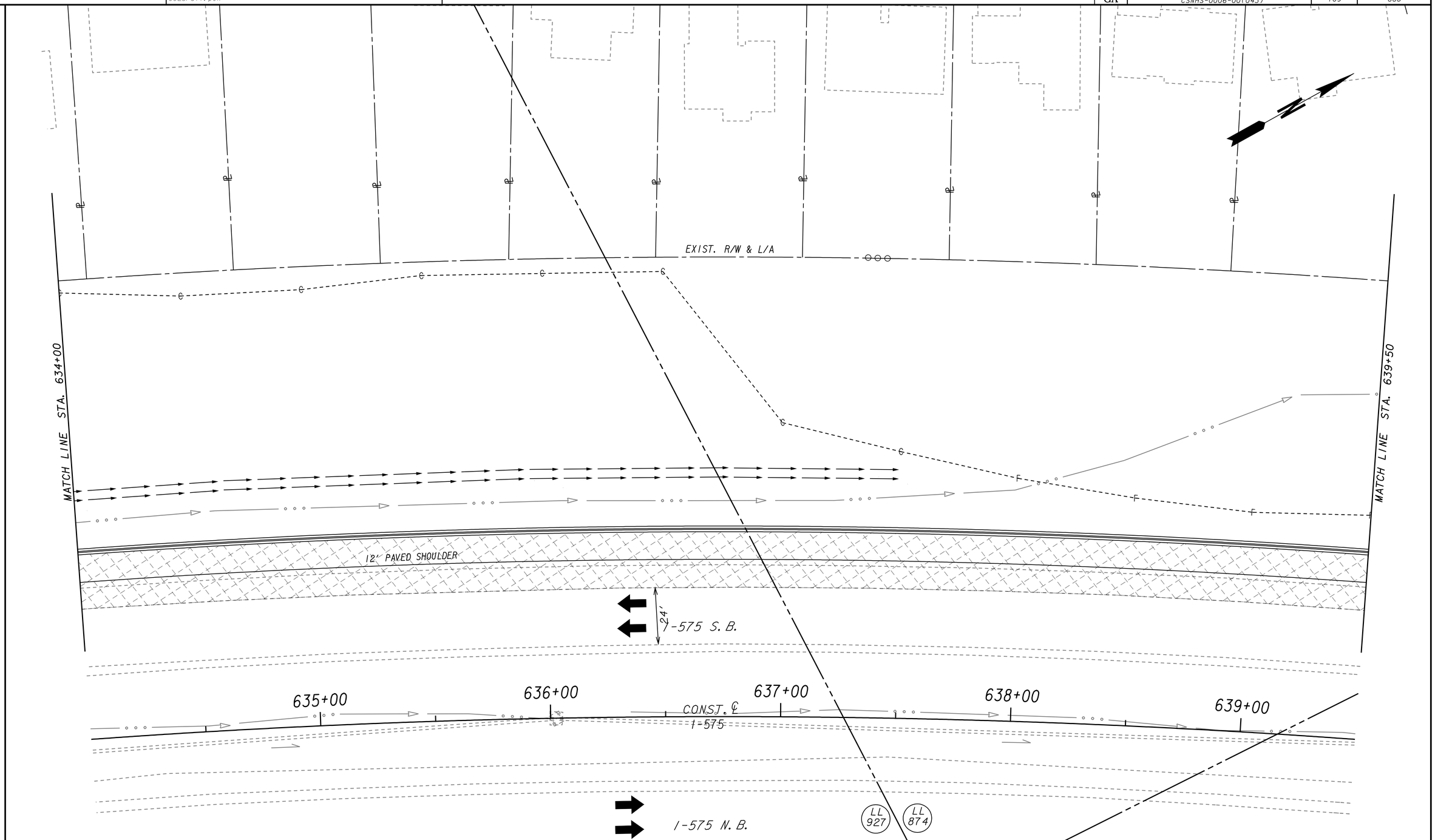
I-575 SB AUXILIARY LANE
STA. 628+50 TO STA. 634+00

DRAWING No. 19-007

1/5/2009 GPLN

06-DEC-2010 11:10	TIME$$$	006043ST08-1A	R:\07400004\006043\DGN\006043ST08-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	109	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 19-008

1/5/2009 GPLN

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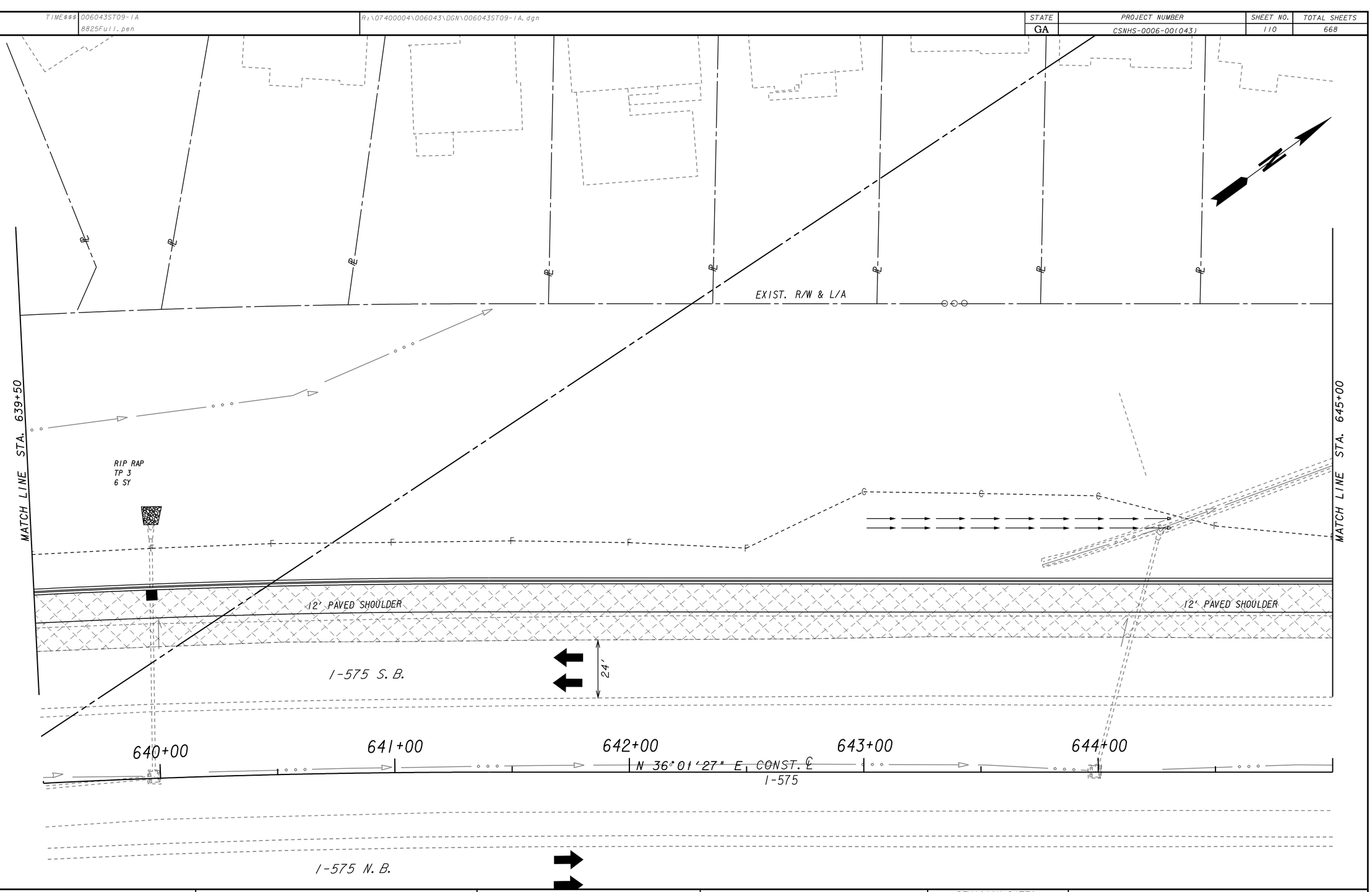
RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 639+50 TO STA. 645+00

DRAWING No. 19-009

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	111	668

RELEASED FOR CONSTRUCTION 12/02/10

STREAM #4 (PERENNIAL)

EXIST. R/W & L/A

NON-BUFFERED STATE WATERS - CONCRETE FLUME

INTERMITTENT STREAM #4A

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

NON-BUFFERED STATE WATERS - CONCRETE FLUME

MATCH LINE STA. 645+00

MATCH LINE STA. 700+50

BEGIN 650' TAPER
RAMP 'D' STA 700+00.00 -
I-575 STA 650+07.71
68.17' LT

700+00

12' PAVED SHOULDER

BEGIN MILL SURFACE COURSE

24'

I-575 S. B.

646+00 | 647+00 | 648+00 | 649+00 | 650+00

CONST. ℄ I-575

N 36°01'27" E

24'

I-575 N. B.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

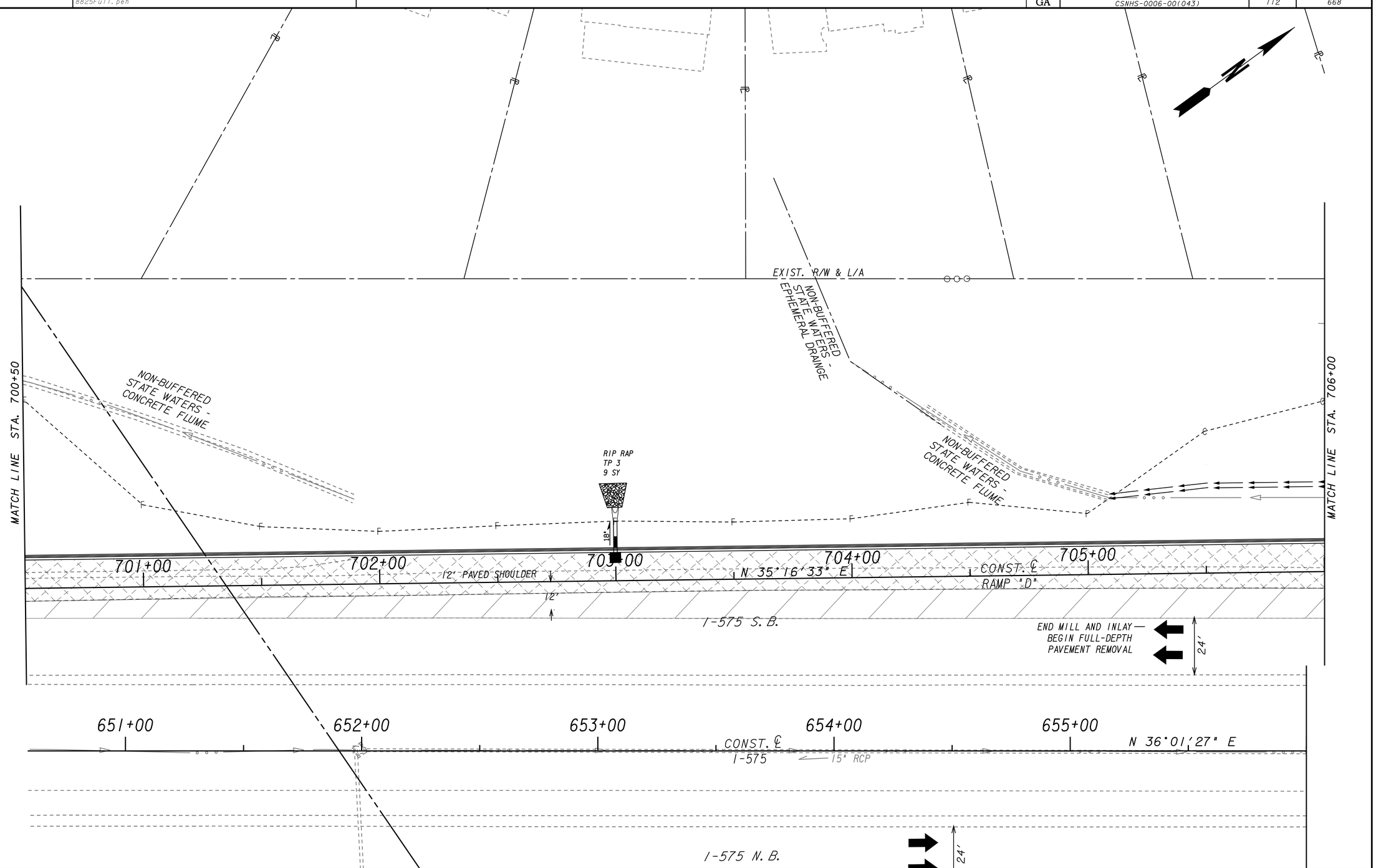
CONSTRUCTION STAGING PLAN

I-575 SB AUXILIARY LANE
STA. 645+00 TO STA. 650+50

DRAWING No. 19-010

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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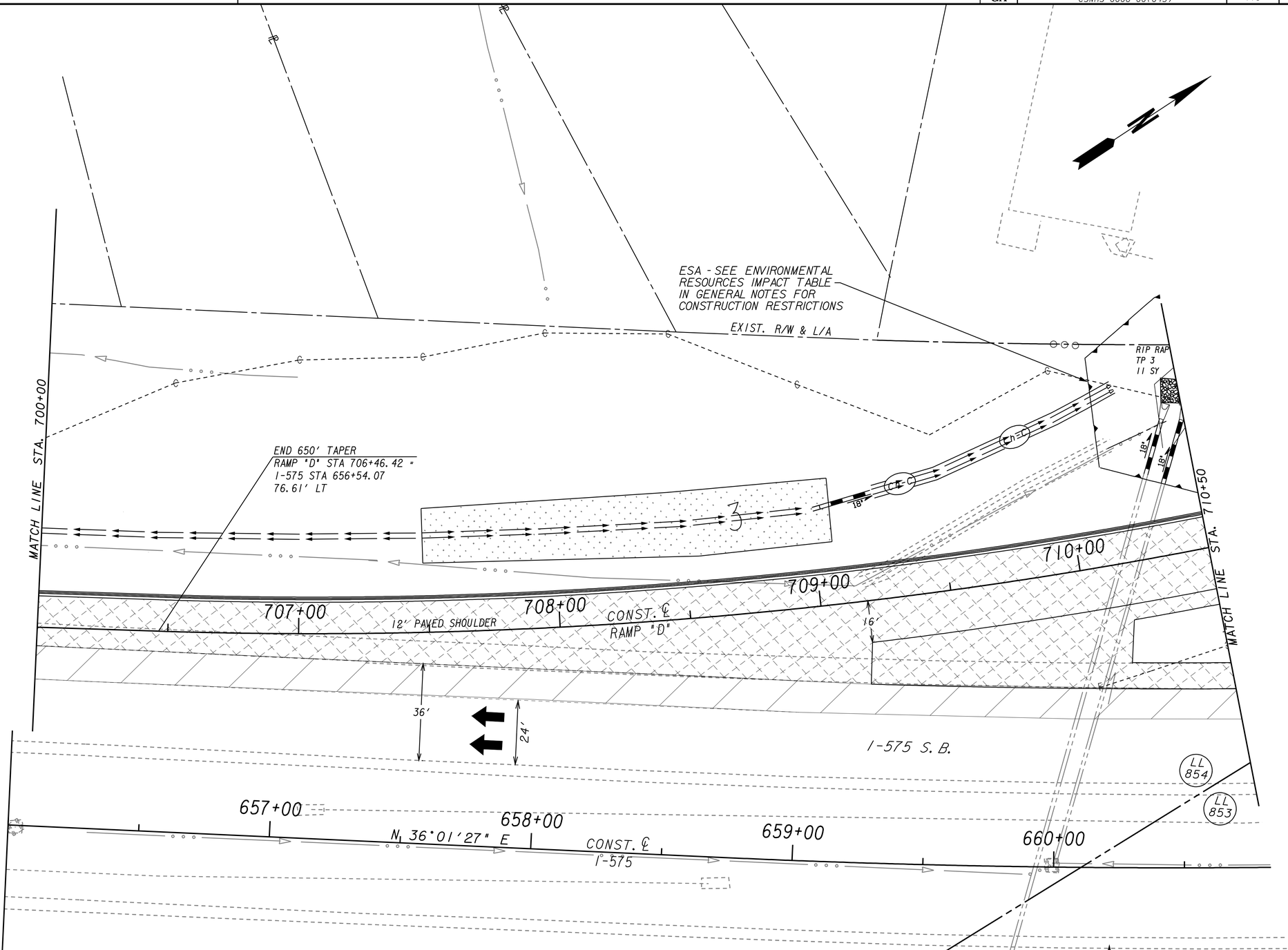
CONSTRUCTION STAGING PLAN

I-575 STA. 650+50 TO
SB ENTR. RAMP D STA. 700+00

DRAWING No. 19-011

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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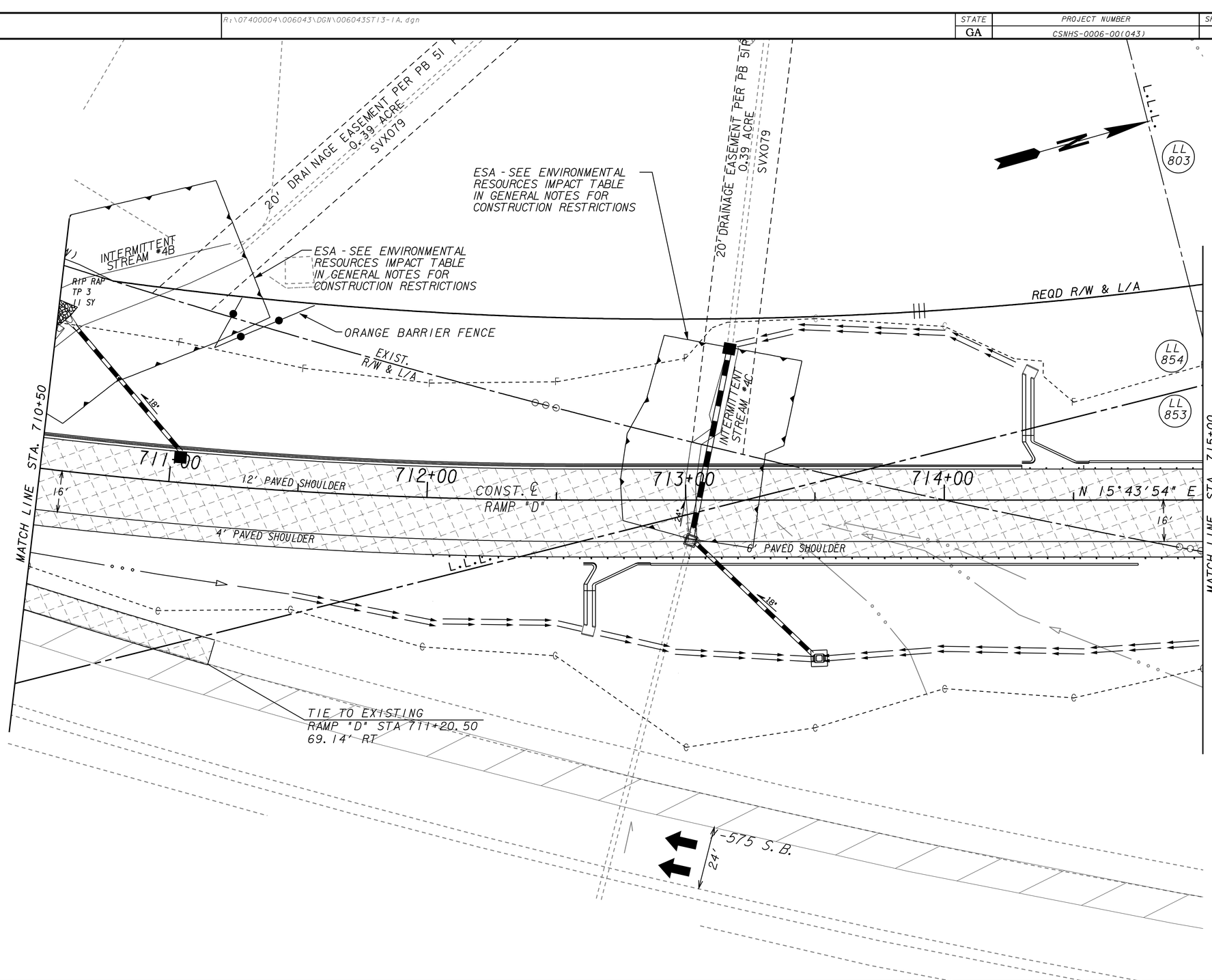
CONSTRUCTION STAGING PLAN

I-575 SB ENTRANCE RAMP D
STA. 700+00 TO STA. 704+50

DRAWING No. 19-012

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

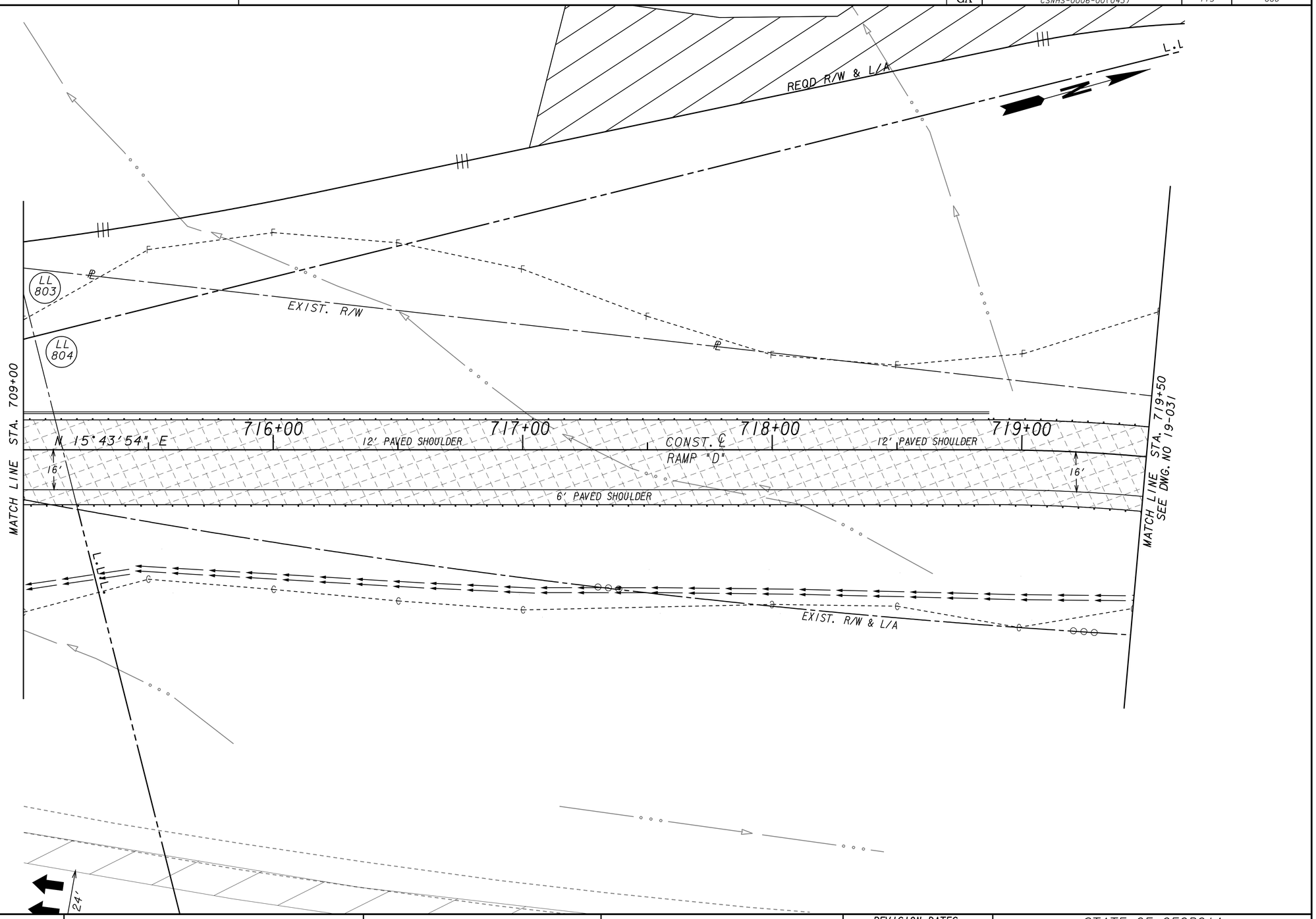
I-575 SB ENTRANCE RAMP D
STA. 704+50 TO STA. 709+00

DRAWING No. 19-013

1/5/2009 GPLN

06-DEC-2010 11:12	TIME$$$	006043ST14-1A	R:\07400004\006043\DGN\006043ST14-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	115	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

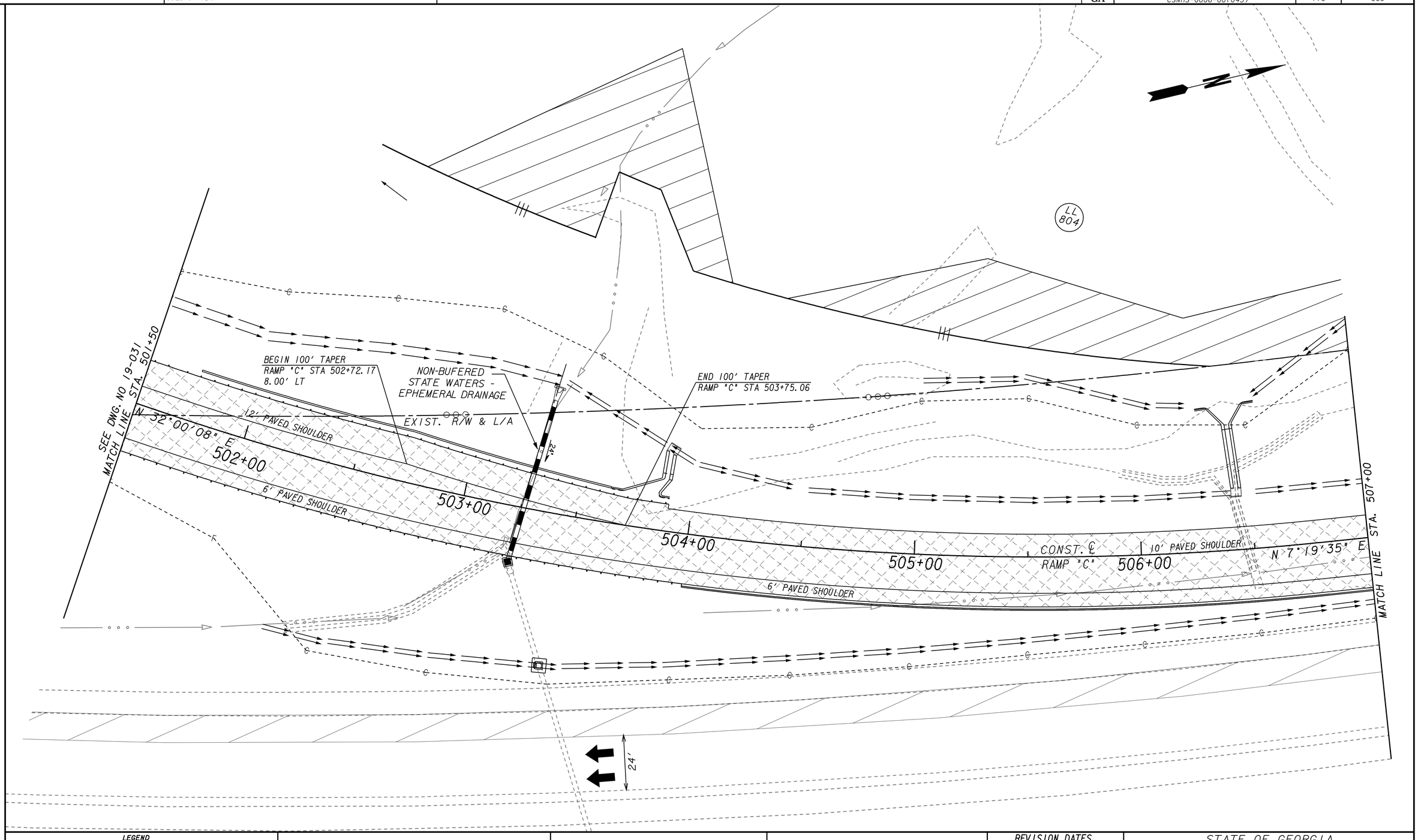
I-575 SB ENTRANCE RAMP D
STA. 709+00 TO STA. 713+50

DRAWING No. 19-014

1/5/2009 GPLN

06-DEC-2010 11:12 JParks	TIME\$\$\$ 006043ST15-1A 8825Full.pen	R:\07400004\006043\DGN\006043ST15-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	116	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

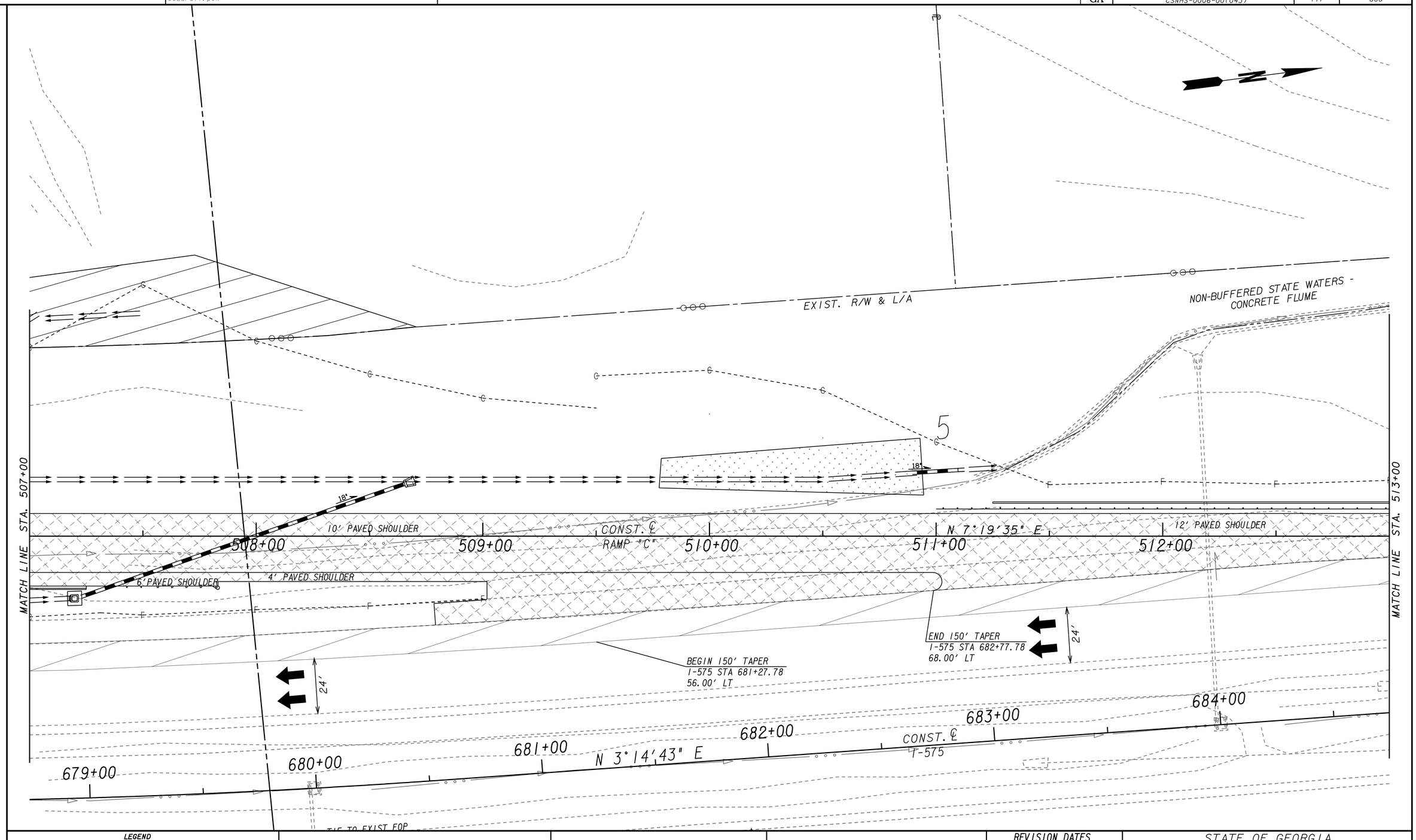
I-575 SB EXIT RAMP C
STA. 501+50 TO STA. 507+00

DRAWING No. 19-015

1/5/2009 GPLN

06-DEC-2010 11:12	TIME$$$	006043ST16-1A	R:\07400004\006043\DGN\006043ST16-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	117	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

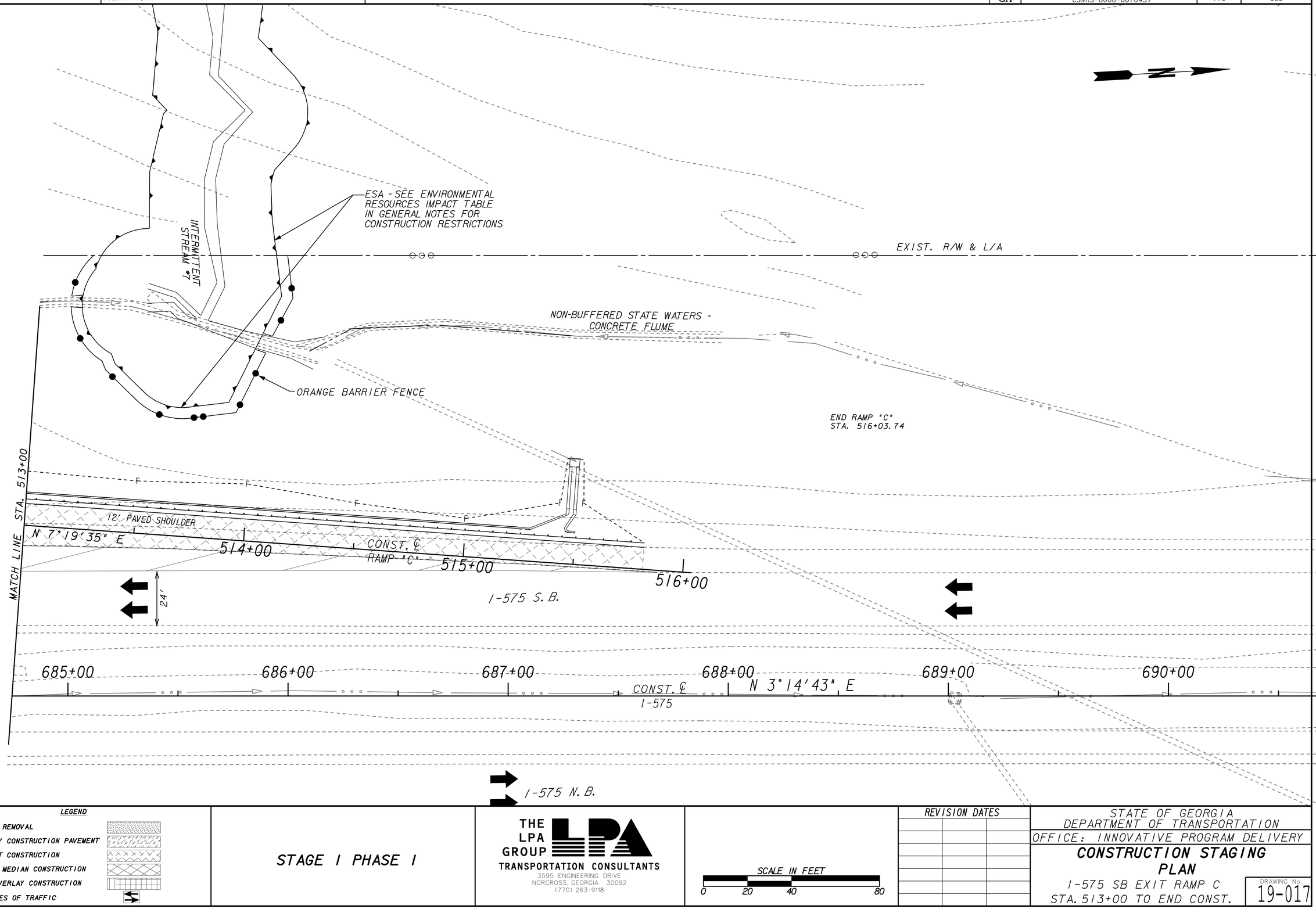
CONSTRUCTION STAGING PLAN

I-575 SB EXIT RAMP C
STA. 507+00 TO STA. 513+00

DRAWING No. 19-016

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

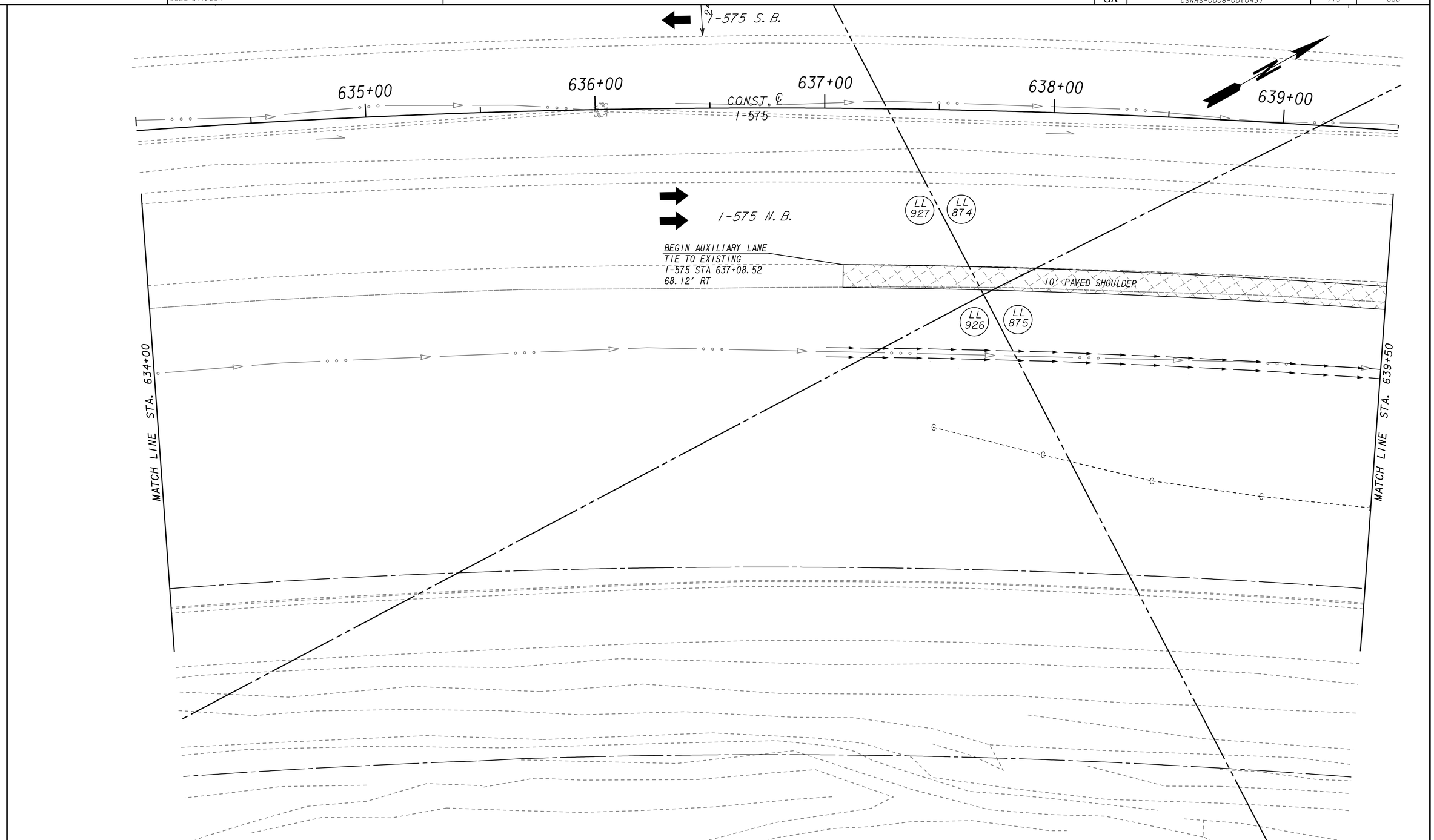
I-575 SB EXIT RAMP C
STA. 513+00 TO END CONST.

DRAWING No. 19-017

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	119	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

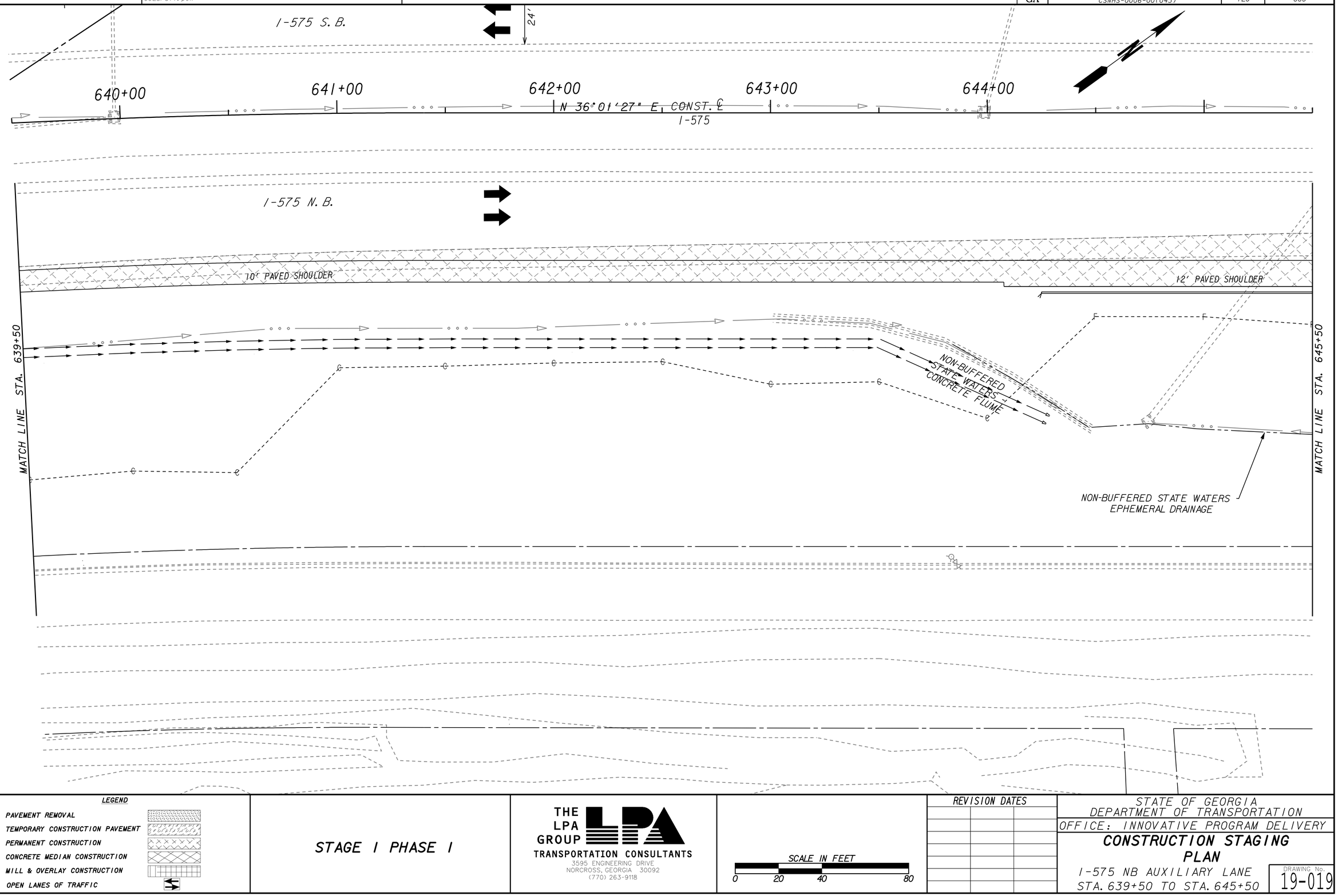
CONSTRUCTION STAGING PLAN

I-575 NB AUXILIARY LANE
BEGIN CONSTR. TO STA. 639+50

DRAWING No. 19-018

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

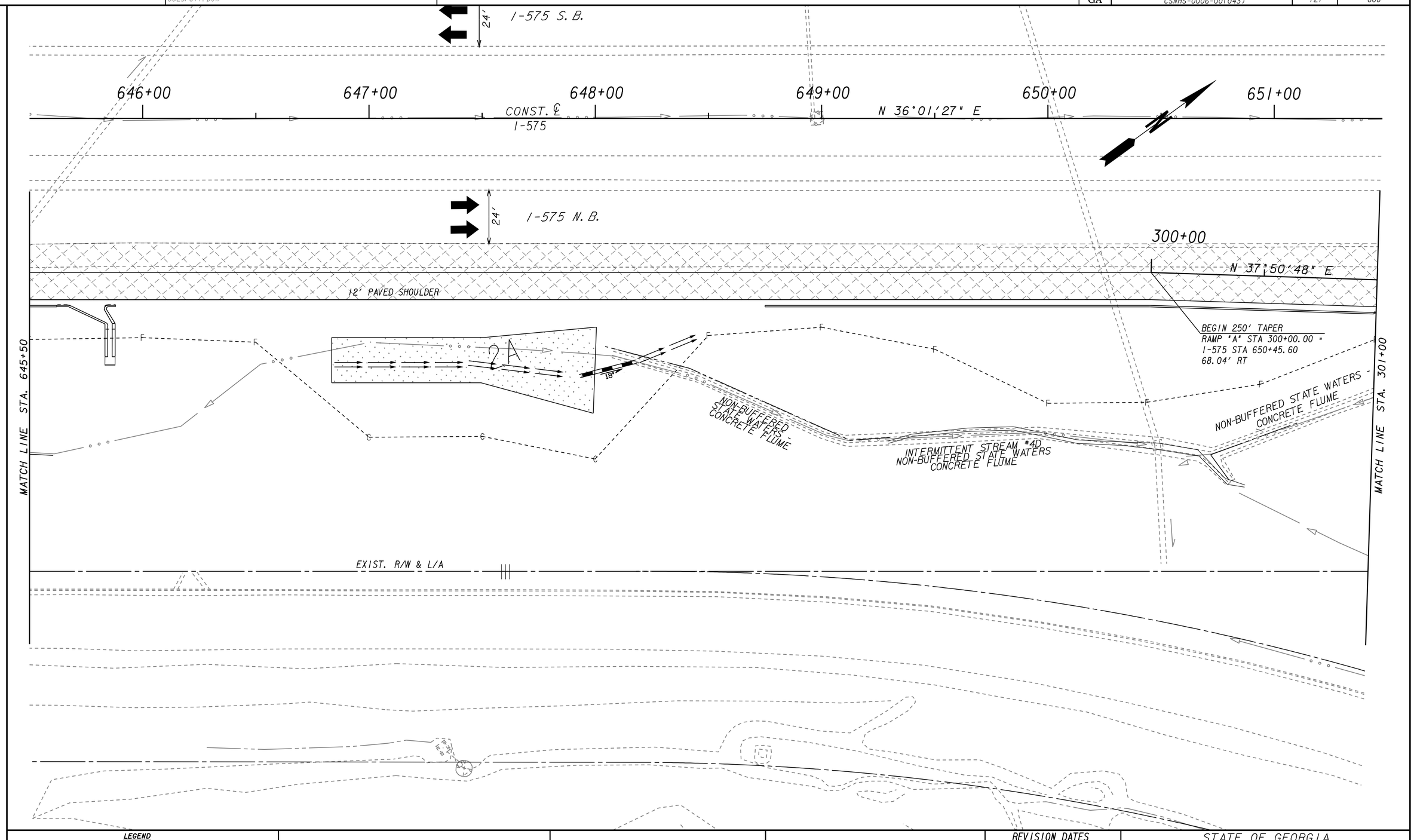
I-575 NB AUXILIARY LANE
STA. 639+50 TO STA. 645+50

DRAWING No. 19-019

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	121	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 NB AUXILIARY LANE
STA. 645+50 TO STA. 651+50

DRAWING No. 19-020

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

BEGIN FULL-DEPTH PAVEMENT REMOVAL

24'

652+00 653+00 654+00 655+00 657+00

CONST. ℄ I-575

15" RCP

N 36°01'27" E

I-575 N.B.

24'

302+00 303+00 304+00 305+00 306+00

N 37°50'48" E

CONST. ℄ RAMP "A"

N 36°01'27" E

10' PAVED SHOULDER

MATCH LINE STA. 651+50

24'

Sd3

END 250' TAPER
RAMP "A" STA 302+50.00 =
I-575 STA 652+95.60
76.00' RT

MATCH LINE STA. 307+00

LL 854

LL 853

EXIST. R/W & L/A

LL 875

LL 854

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

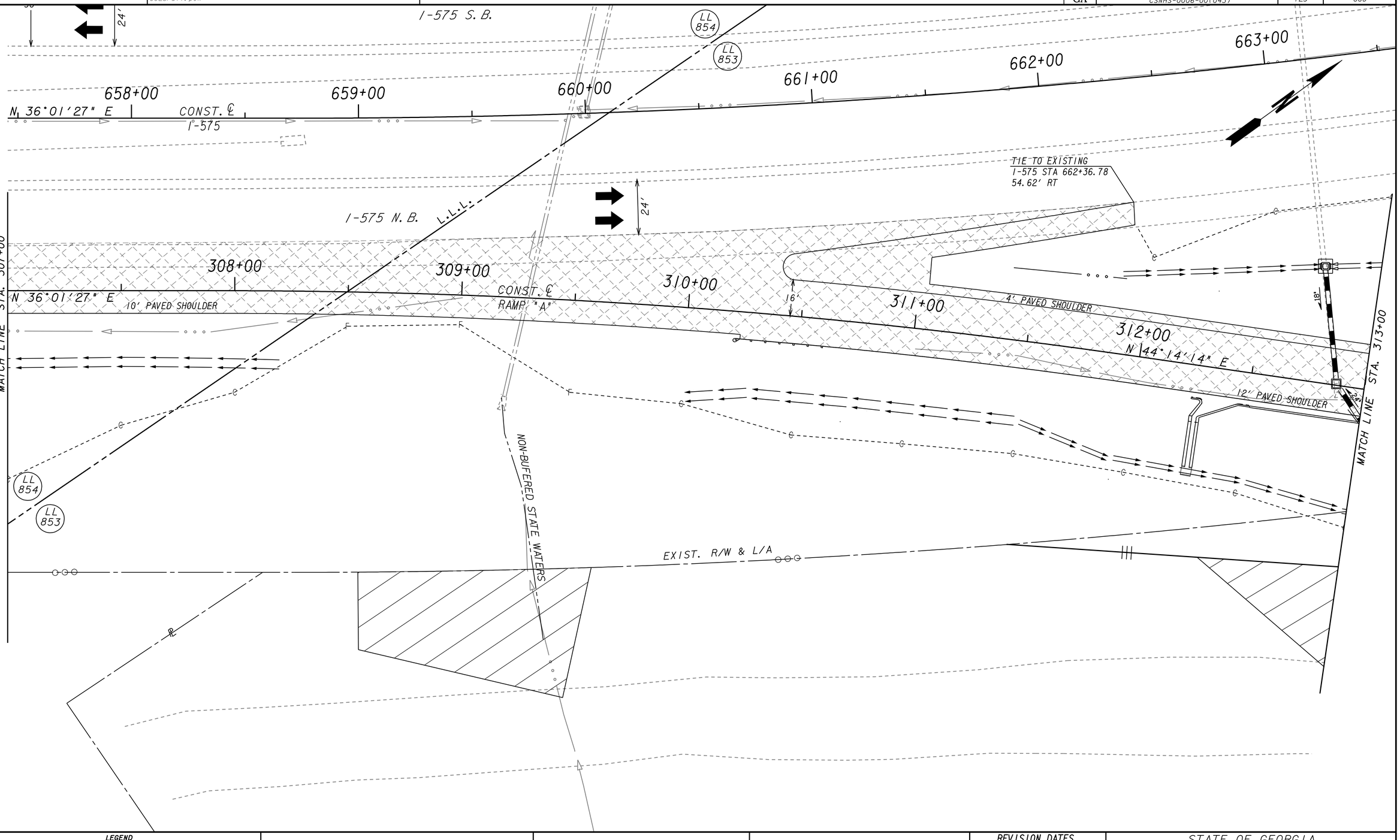
CONSTRUCTION STAGING PLAN

I-575 NB AUXILIARY LANE
STA. 651+50 TO STA. 657+50

DRAWING No. 19-021

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 STA. 657+50 TO
NB EXIT RAMP A STA. 305+50

DRAWING No. 19-022

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

664+00 CONST. ℄ I-575

24'

LL 804

LL 853

L.L.L.

EXIST. R/W & L/A

4' PAVED SHOULDER

16'

314+00

315+00

316+00

317+00

CONST. ℄ RAMP "A"

N 44° 14' 14" E

24.00'

12' PAVED SHOULDER

10' PAVED SHOULDER

NON-BUFERED STATE WATERS - EPHEMERAL DRAINAGE

24'

MATCH LINE STA. 305+50

MATCH LINE STA. 310+50 SEE SWG. NO. 19-032

END 100' TAPER STA 317+00.64

BEGIN 100' TAPER STA 316+00.77

REQD R/W & L/A

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

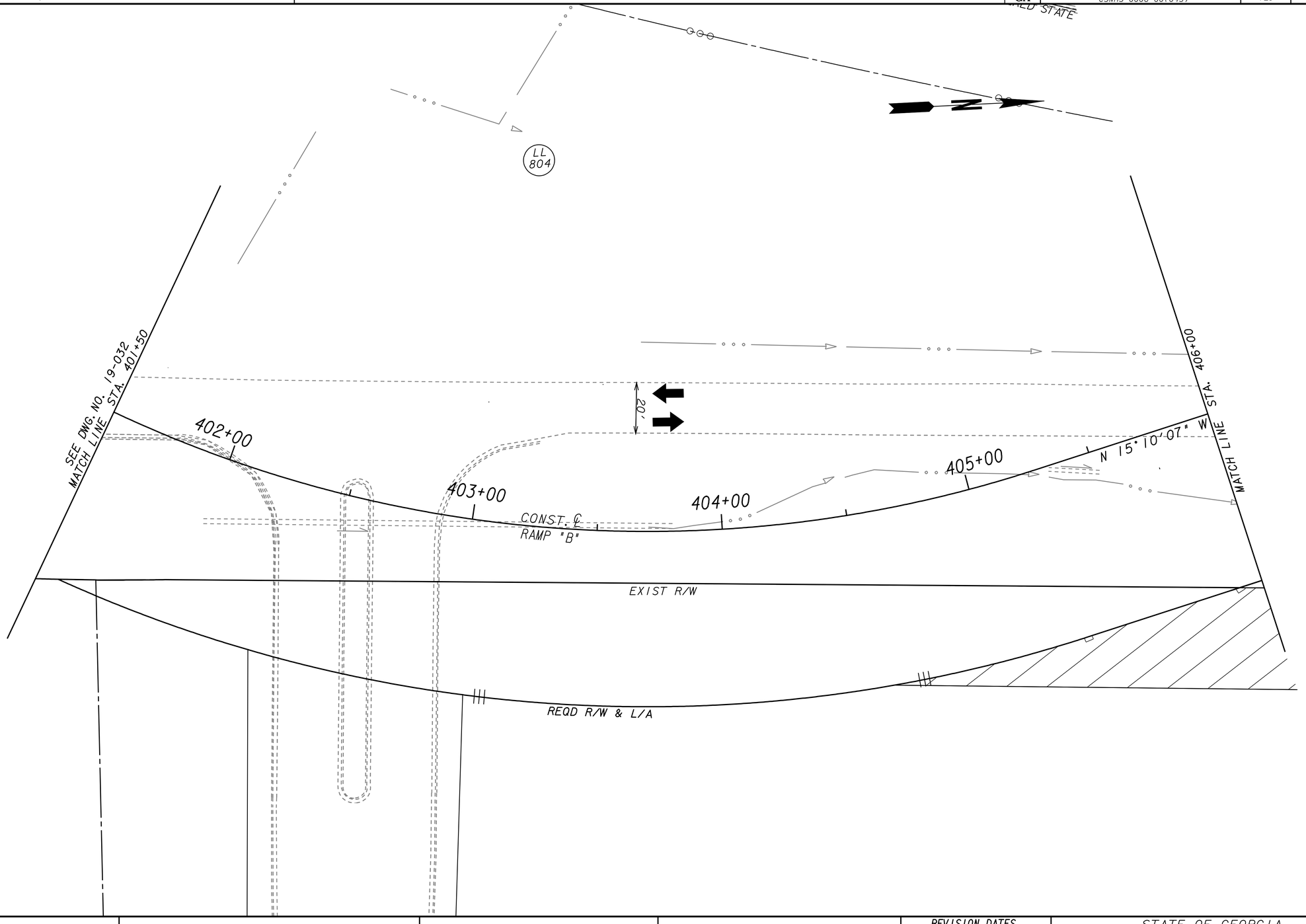
I-575 NB EXIT RAMP A
STA. 305+50 TO STA. 310+50

DRAWING No. 19-023

1/5/2009 GPLN

06-DEC-2010 11:15	TIME$$$	006043ST24-1A	R:\07400004\006043\DGN\006043ST24-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	125	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

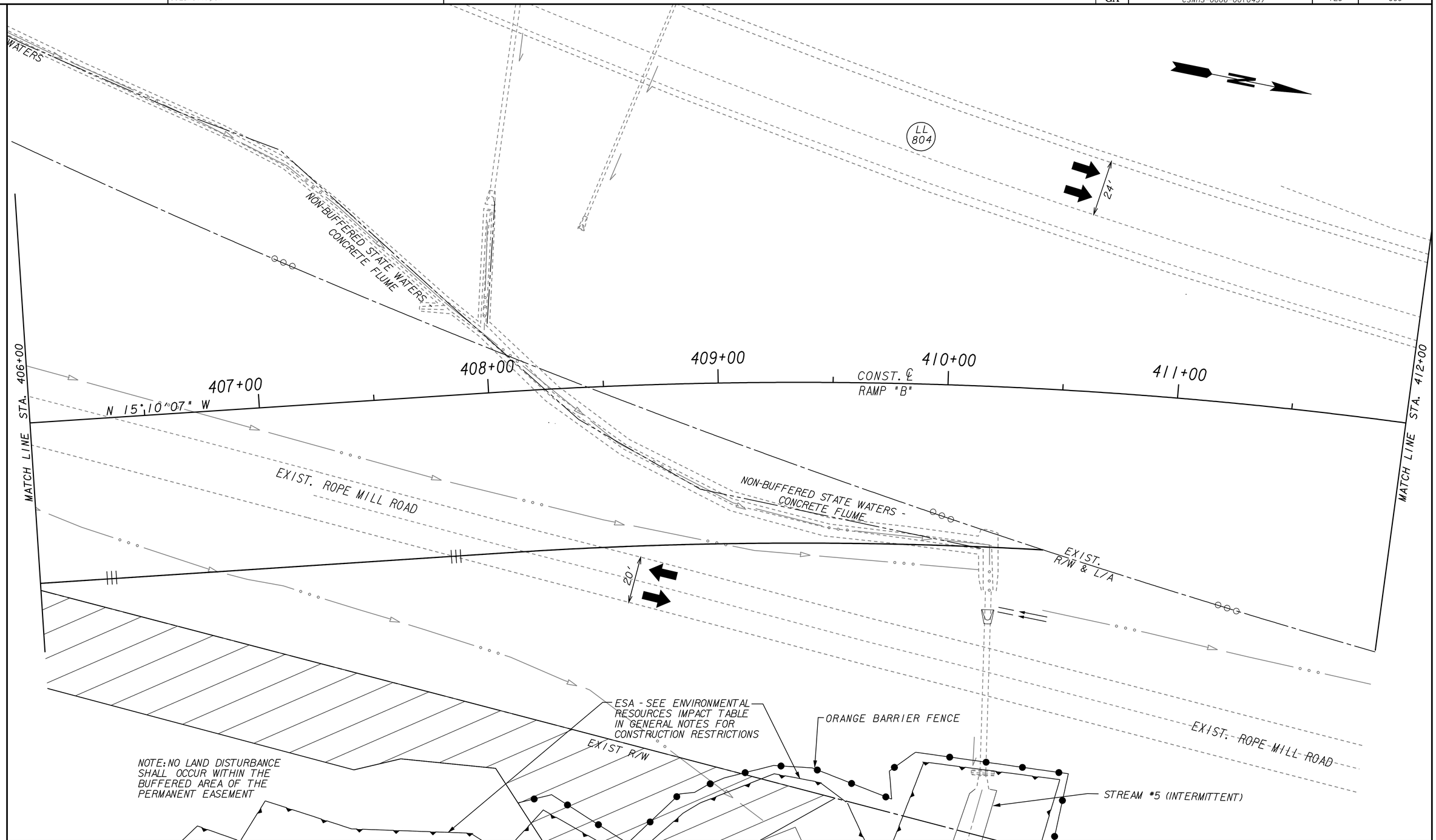
I-575 NB ENTRANCE RAMP B
STA. 401+50 TO STA. 406+00

DRAWING No. 19-024

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	126	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

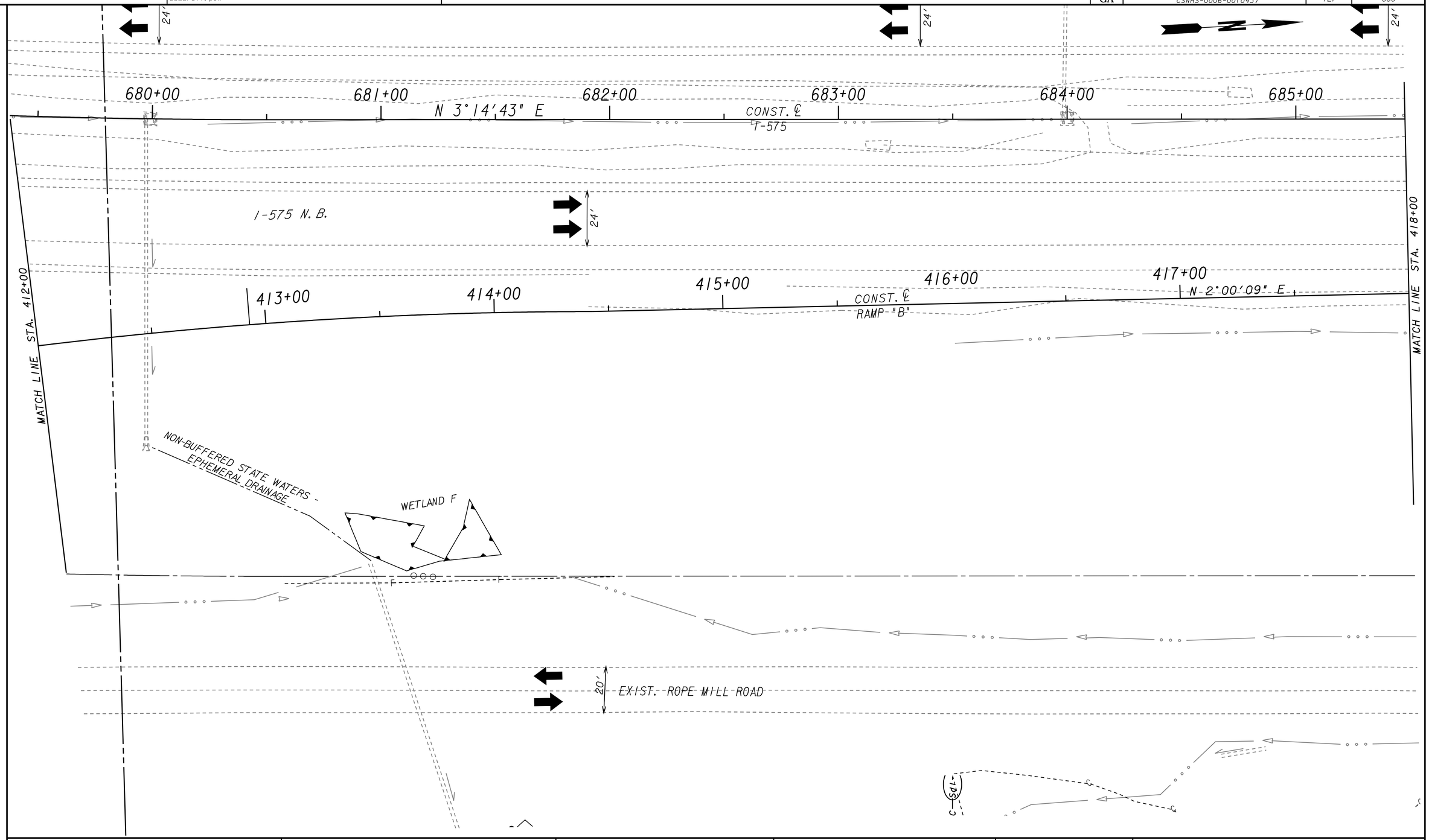
I-575 NB ENTRANCE RAMP B
STA. 406+00 TO STA. 412+00

DRAWING No. 19-025

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	127	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

I-575 NB ENTRANCE RAMP B
STA. 412+00 TO STA. 418+00

DRAWING No. 19-026

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

686+00 687+00 688+00 689+00 690+00 691+00

CONST. ℄ I-575

N 3°14'43" E

I-575 N.B.

MATCH LINE STA. 418+00

419+00 420+00 421+00 422+00 423+00

CONST. ℄ RAMP "B"

N 2°00'09" E

MATCH LINE STA. 424+00

EXIST. R/W & L/A

EXIST. R/W & L/A

20'

EXIST. ROPE MILL ROAD

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

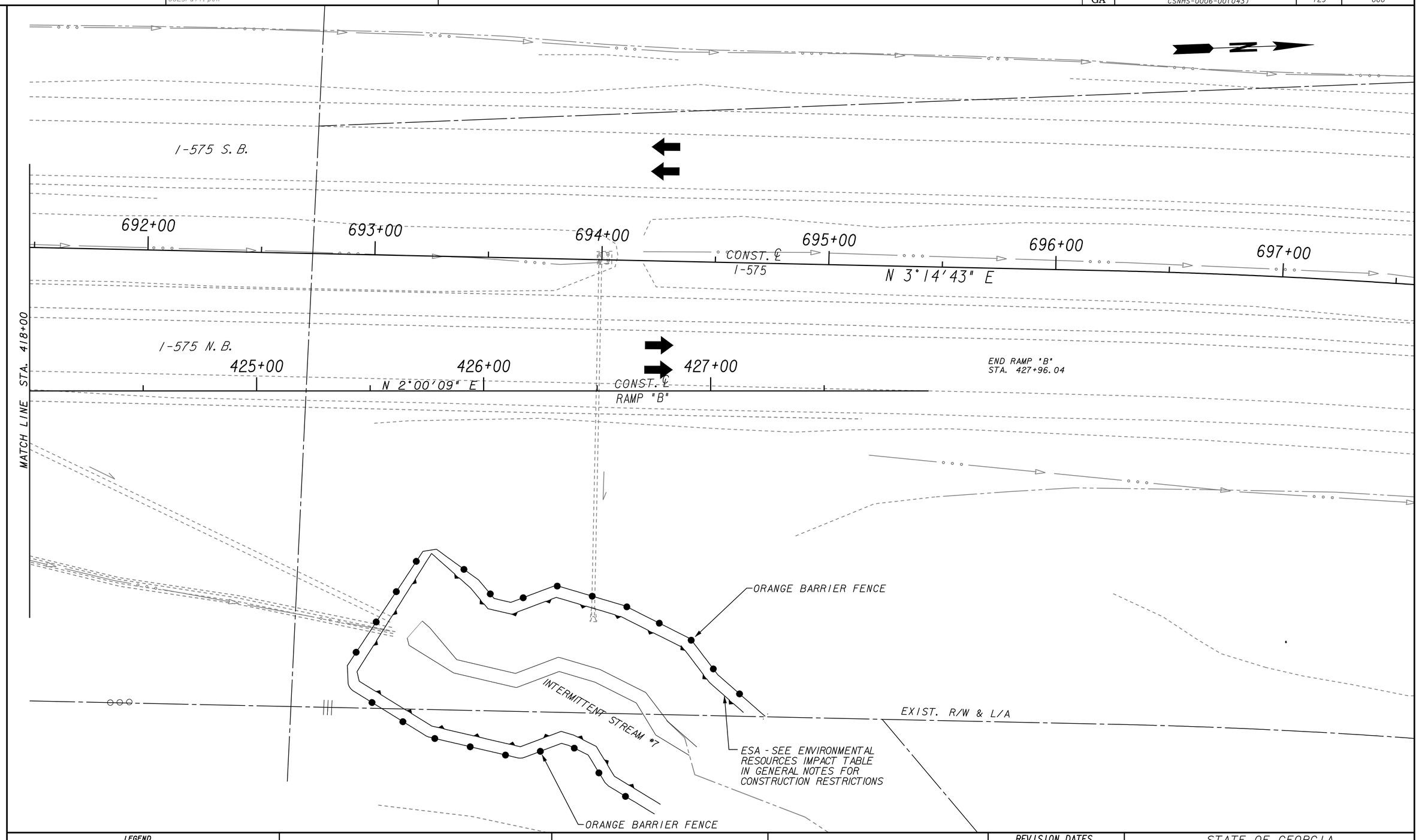
I-575 NB ENTRANCE RAMP B
STA. 418+00 TO STA. 424+00

DRAWING No. 19-027

1/5/2009 GPLN

06-DEC-2010 11:16	TIME$$$	006043ST28-1A	R:\07400004\006043\DGN\006043ST28-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	129	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

1/5/2009 GPLN

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

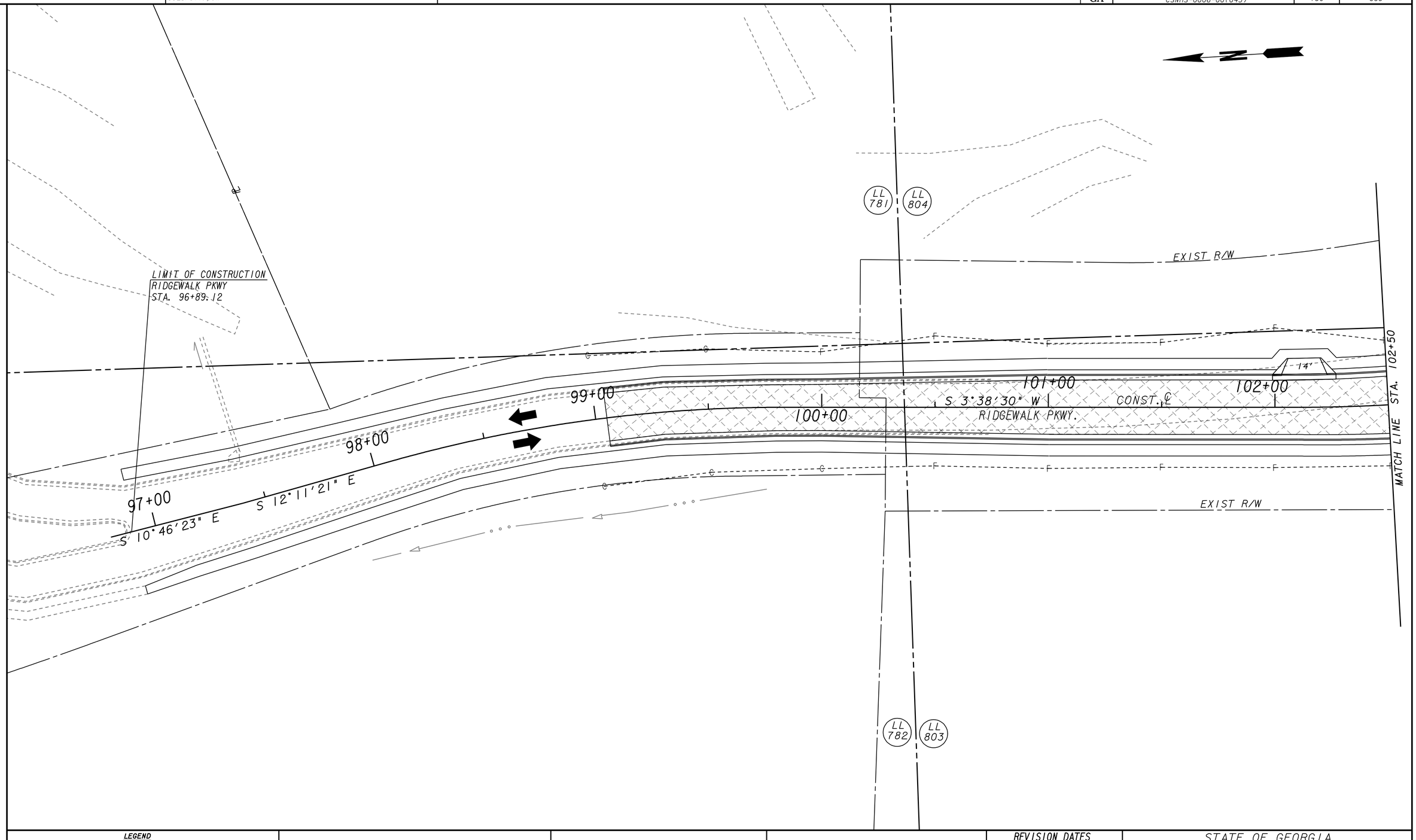
CONSTRUCTION STAGING PLAN

I-575 NB ENTRANCE RAMP B
STA. 418+00 TO END CONST.

DRAWING No. 19-028

06-DEC-2010 11:16	TIME$$$	006043ST29-1A	R:\07400004\006043\DGN\006043ST29-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	130	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

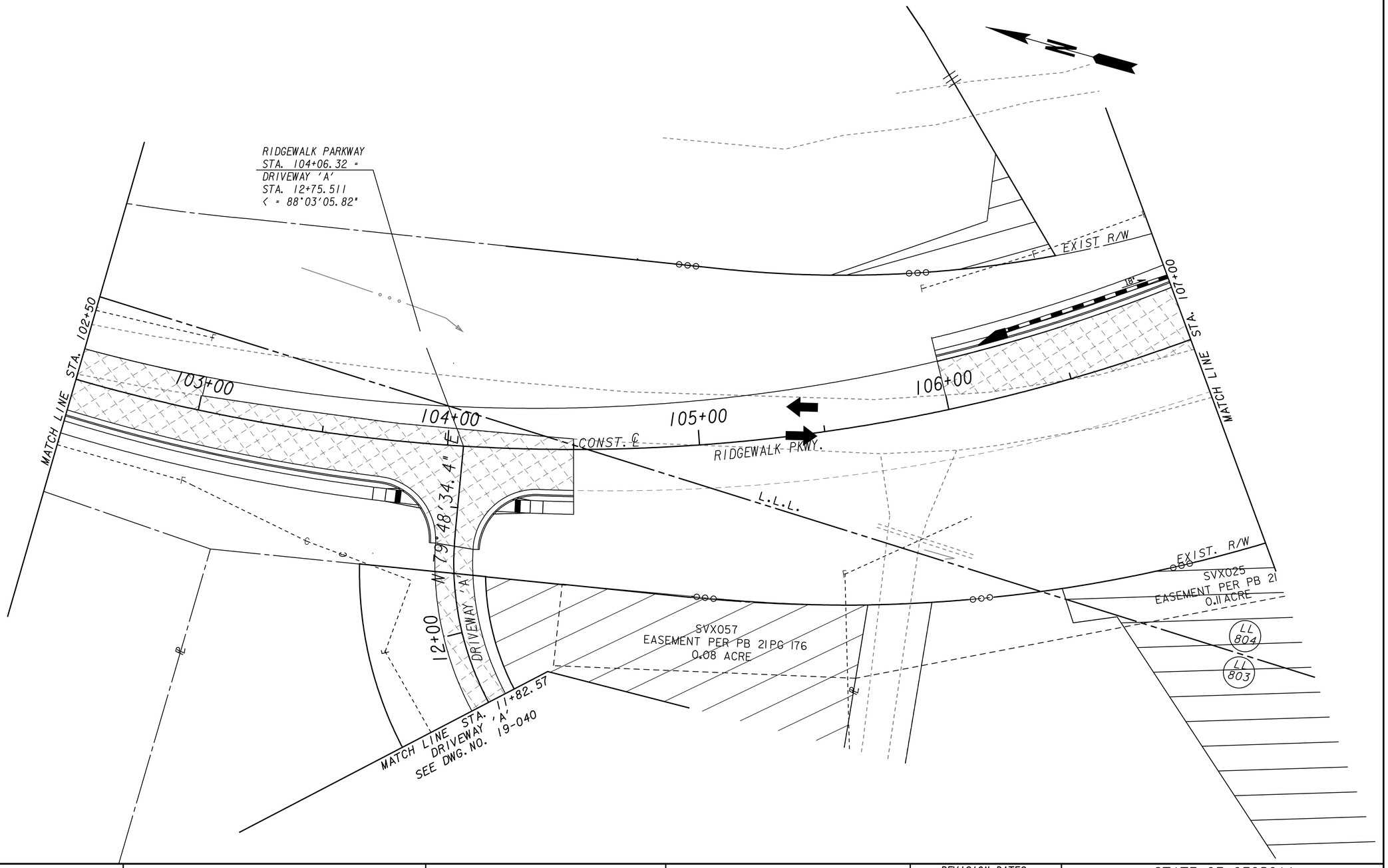
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 19-029

1/5/2009 GPLN

06-DEC-2010 11:17 JParks	TIME$$$ 006043ST30-1A 8825Full.pen	R:\07400004\006043\DGN\006043ST30-1A.dgn	STATE GA	PROJECT NUMBER CSNHS-0006-00(043)	SHEET NO. 131	TOTAL SHEETS 668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 19-030

1/5/2009 GPLN

06-DEC-2010 11:17 JParks	TIME*** 8825Full.pen	006043ST31-1A	R:\07400004\006043\DGN\006043ST31-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	CSNHS-0006-00(043)	132	668

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 19-015
EXIT RAMP C
MATCH LINE STA. 12+50

RIDGEWALK PARKWAY
STA. 108+54.77 = SB EXIT RAMP 'C' STA. 500+00.00
∠ = 79°47'14.19"

CONST. ℄ RAMP "C"

501+00

N 32°00'08" E

EXIST. R/W

RIP RAP TP 3 9 SY

18'

END TEMP. PAVEMENT
110+00, 36.0' L

BEGIN TEMP. PAVEMENT
109+00, 27.2' L

MATCH LINE STA. 107+00

108+00

109+00

110+00

111+00

112+00

CONSTRUCTION JOINT

CONST. ℄

TEMPORARY BARRIER

N 32°00'07" E

RIDGEWALK PKWY.

S 47°47'07" E

CONST. ℄ I-575

612+29

24'

NON-BUFFERED STATE WATERS CONCRETE FLUME

BEGIN TEMP. PAVEMENT
112+23, 36.0' L

001+79

31'

MATCH LINE STA. 112+50

000+79

I-575 SOUTHBOUND

I-575 NORTHBOUND

699+00

RIDGEWALK PARKWAY
STA. 108+54.77 = SB ENTRANCE RAMP "D"
STA. 721+04.45
∠ = 79°47'13.39"

PG V76

18'

EXIST. R/W

720+00

CONST. ℄ RAMP "D"

MATCH LINE STA. 719+50
ENTRANCE RAMP D
SEE DWG. NO. 19-014

LL 803

LL 804

NOTE: SEE GA STD 4960 FOR GUARDRAIL CONNECTION TO TEMP. BARRIER AT BRIDGE

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

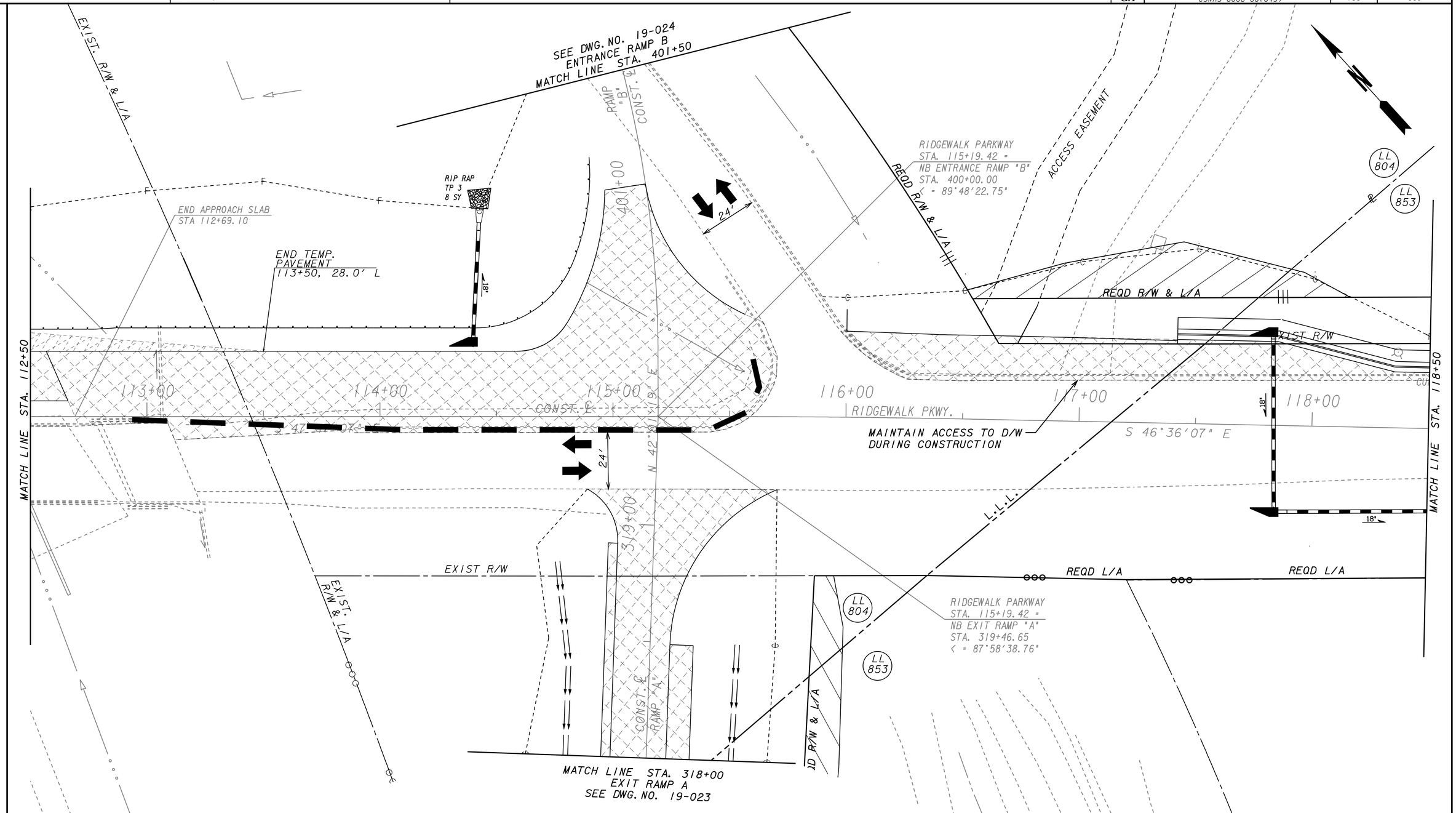
CONSTRUCTION STAGING PLAN

RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 19-031

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

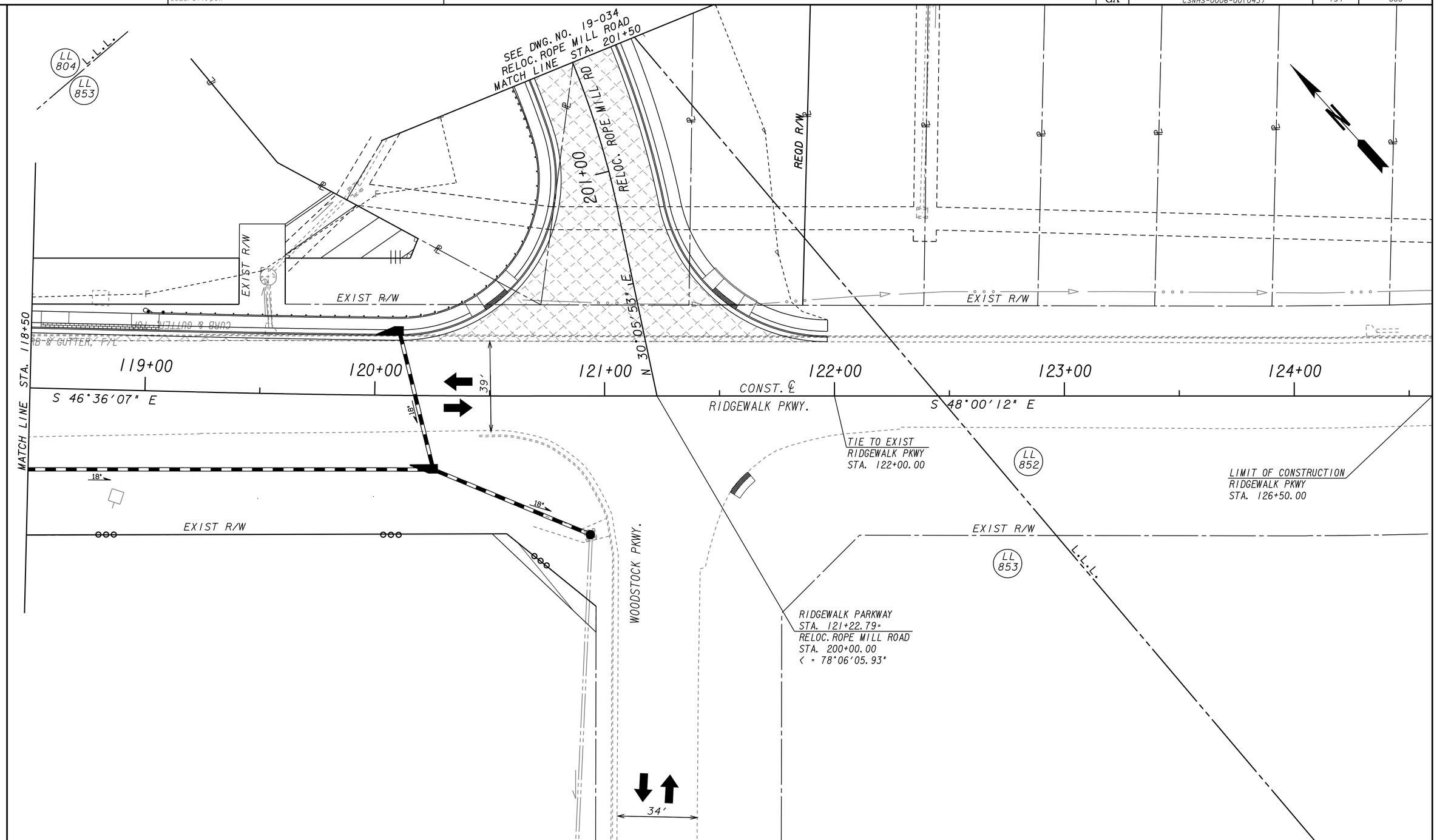
RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 19-032

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	134	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

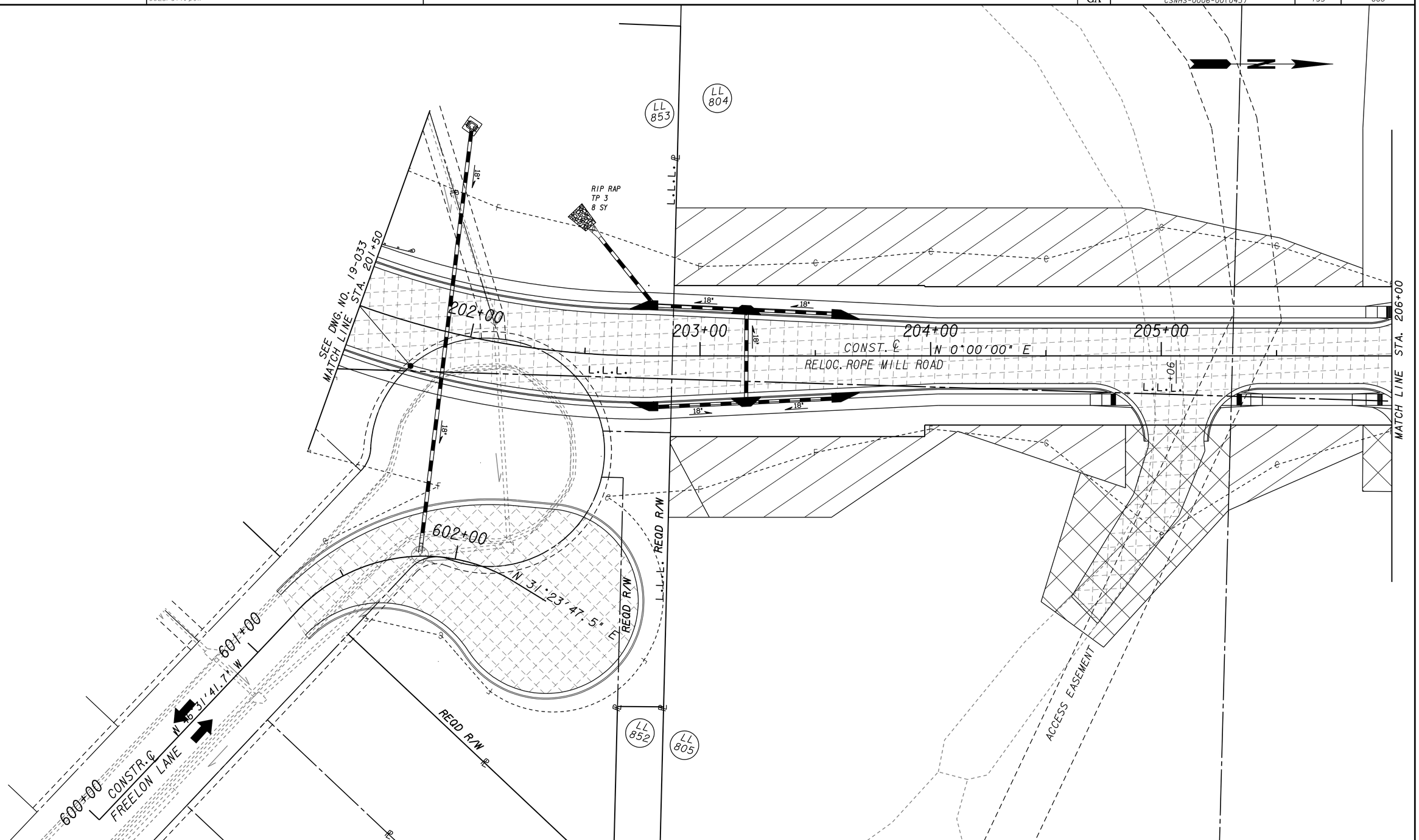
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 19-033

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	135	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

RELOC. ROPE MILL ROAD
STA. 201+50 TO STA. 206+00

DRAWING No. 19-034

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STREAM #5 (INTERMITTENT)

NON-BUFFERED STATE WATERS EPHEMERAL DRAINAGE

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

N

REQD R/W

207+00 208+00 209+00 210+00 211+00

CONST. ℄

N 0°00'00" E

RELOC. ROPE MILL ROAD

MATCH LINE STA. 206+00

MATCH LINE STA. 212+00

LL 804

LL 805

L.L.L.

REQD R/W

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

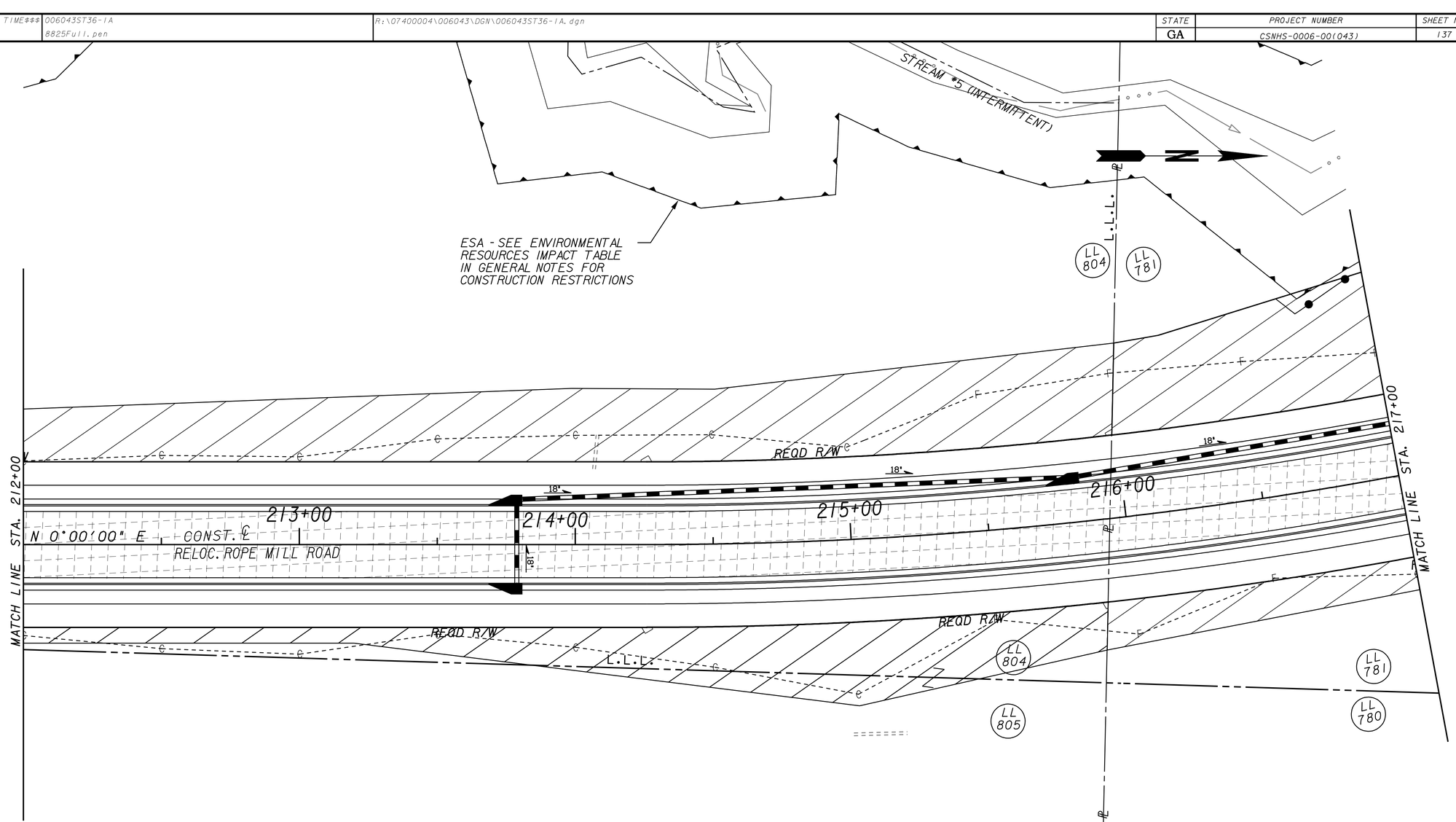
CONSTRUCTION STAGING PLAN

RELOC. OLD ROPE MILL ROAD
STA. 206+00 TO STA. 212+00

DRAWING No. 19-035

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE I PHASE I

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

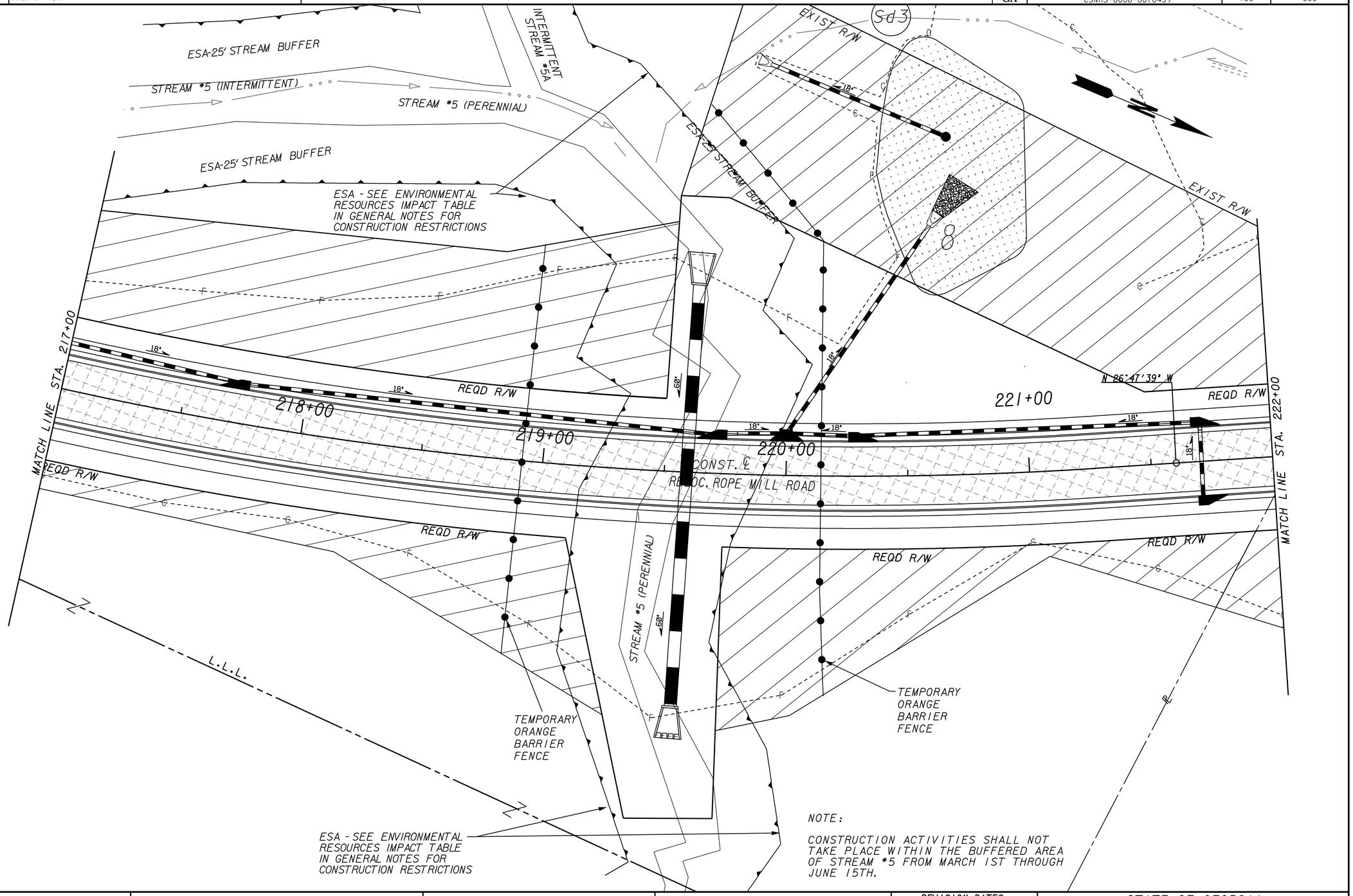
RELOC. OLD ROPE MILL ROAD
STA. 212+00 TO STA. 217+00

DRAWING No. 19-036

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	138	668

RELEASED FOR CONSTRUCTION 12/02/10



NOTE:

CONSTRUCTION ACTIVITIES SHALL NOT TAKE PLACE WITHIN THE BUFFERED AREA OF STREAM #5 FROM MARCH 1ST THROUGH JUNE 15TH.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

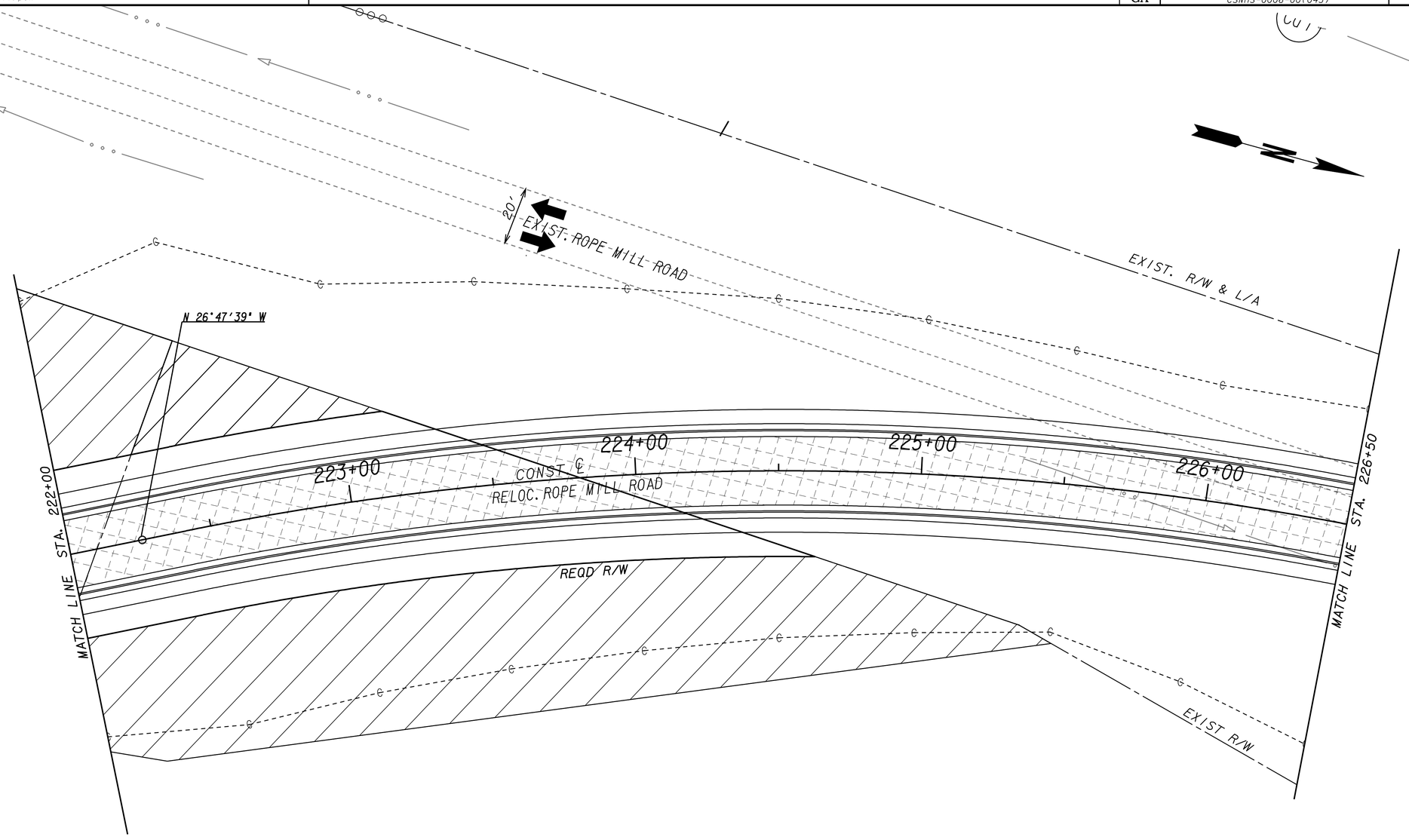
RELOC. OLD ROPE MILL ROAD
STA. 217+00 TO STA. 222+00

DRAWING No. 19-037

1/5/2009 GPLN

06-DEC-2010 11:19	TIME$$$	006043ST38-1A	R:\07400004\006043\DGN\006043ST38-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	139	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

RELOC. OLD ROPE MILL ROAD
STA. 222+00 TO STA. 226+50

DRAWING No. 19-038

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

EXIST. R

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

MATCH LINE STA. 222+00

227+00

CONSTR.℄ ROPE MILL RD. (RELOCATION)

228+00

N 3°15'41" E

229+00

N 5°48'53" E

RIP RAP TP 3, 12" 11 SY

LIMIT OF CONSTRUCTION
OLD ROPE MILL RD.
(RELOCATION)
STA. 229+44.80
END TAPER
TIE TO EXISTING PVMT

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

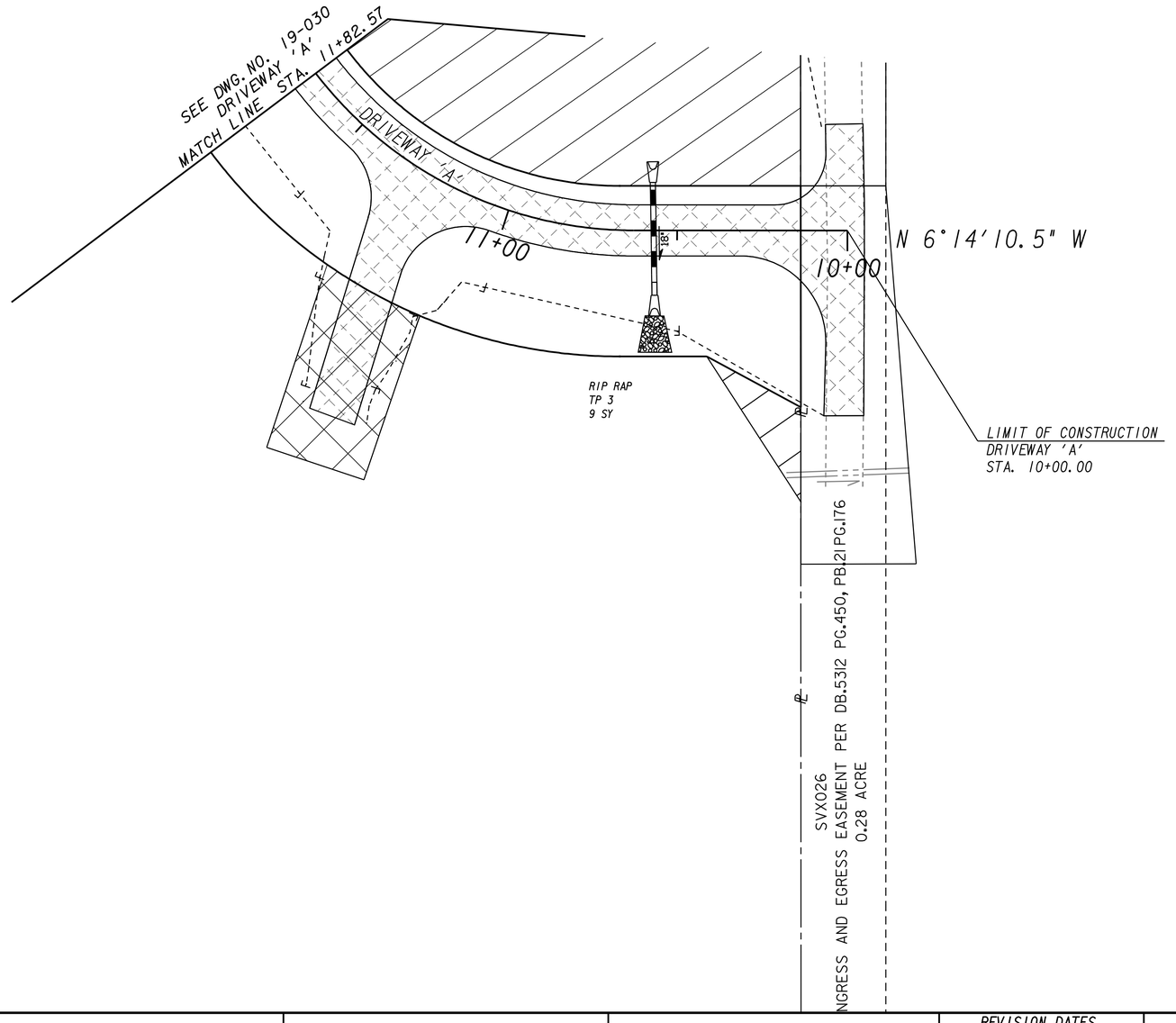
CONSTRUCTION STAGING PLAN

RELOC. OLD ROPE MILL ROAD
STA. 226+50 TO END CONST.

DRAWING No. 19-039

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 1

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

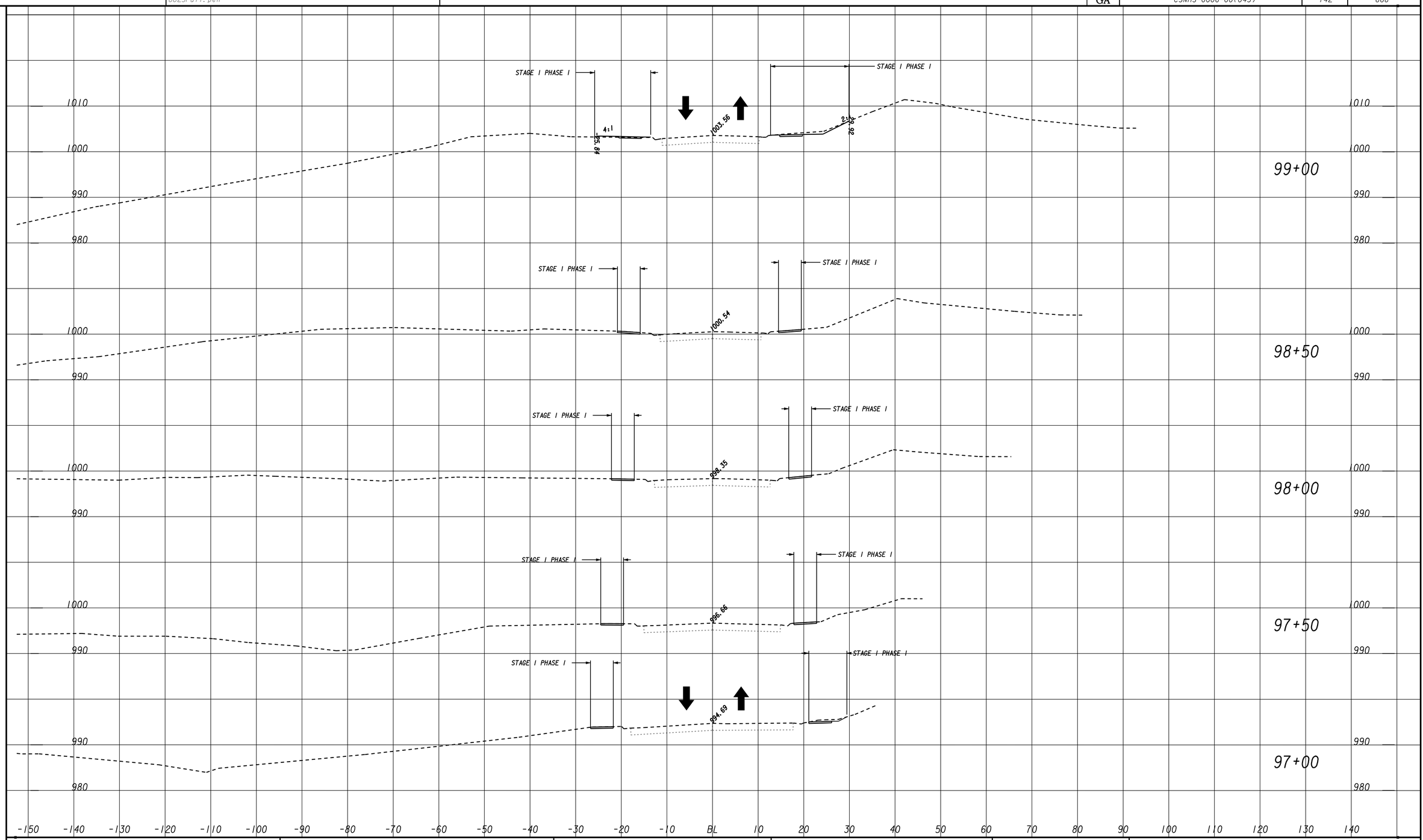
DRIVEWAY 'A'
BEGIN CONS. TO STA. 11+82.57

DRAWING No. 19-040

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	142	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

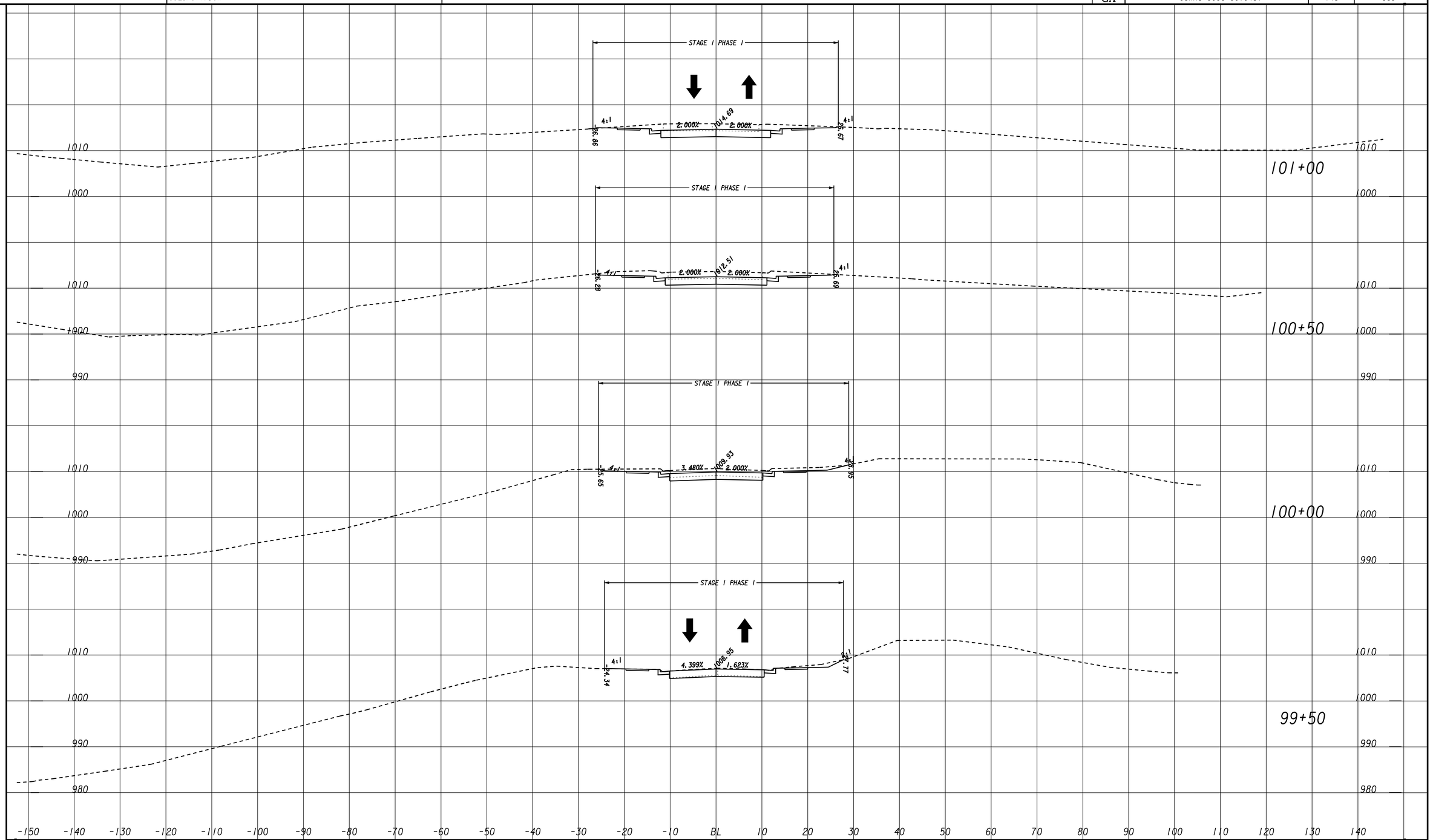
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-041

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

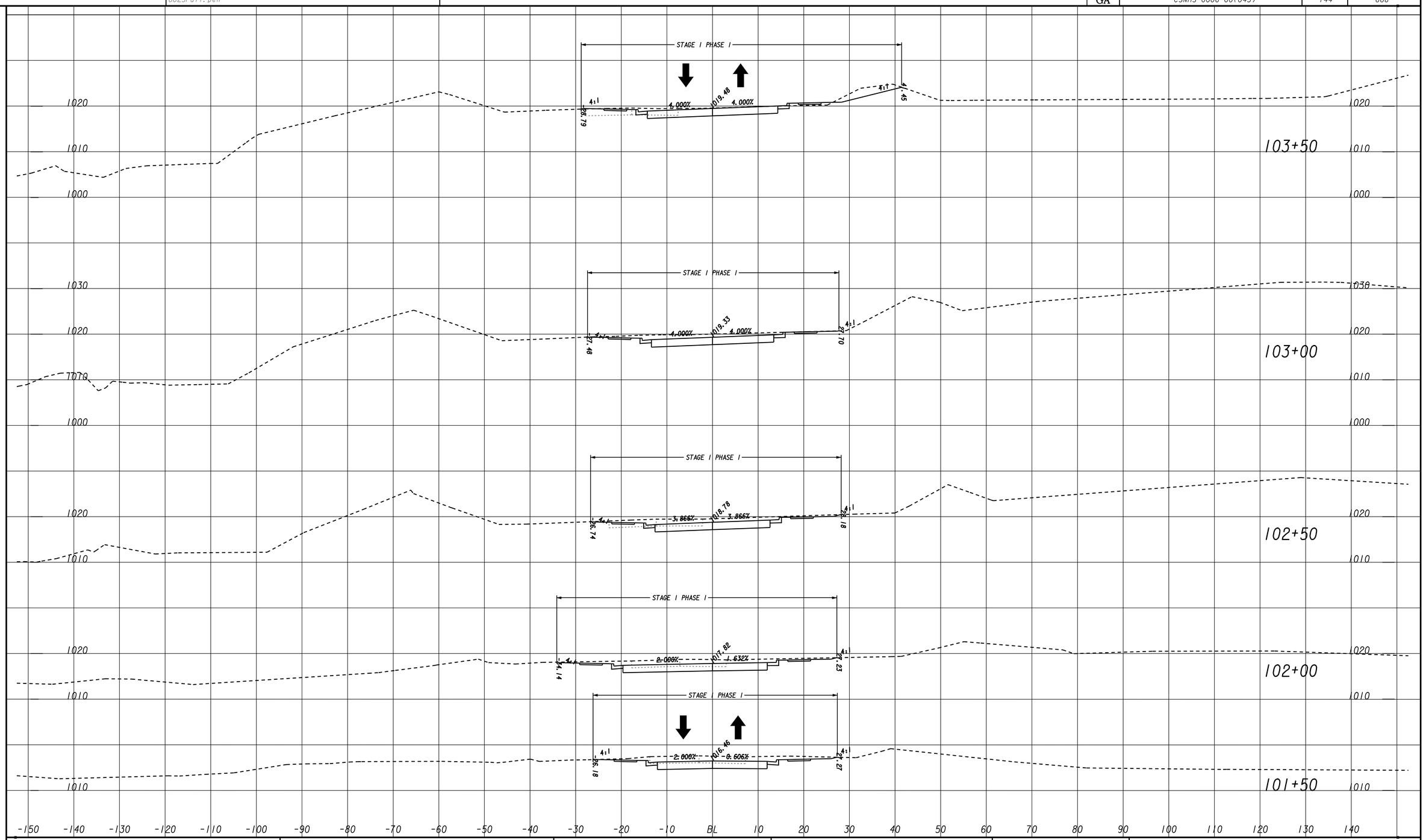
RIDGEWALK PARKWAY

DRAWING No. 19-042

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	144	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-043

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10

105+50

1016.36

105+00

1017.50

STAGE I PHASE I

1018.55 4.000% 2:1 57.07

104+50

STAGE I PHASE I

4.000% 1019.22 4.000% 2:1 81.70

104+00

-150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 BL 10 20 30 40 50 60 70 80 90 100 110 120 130 140

SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE I PHASE I

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

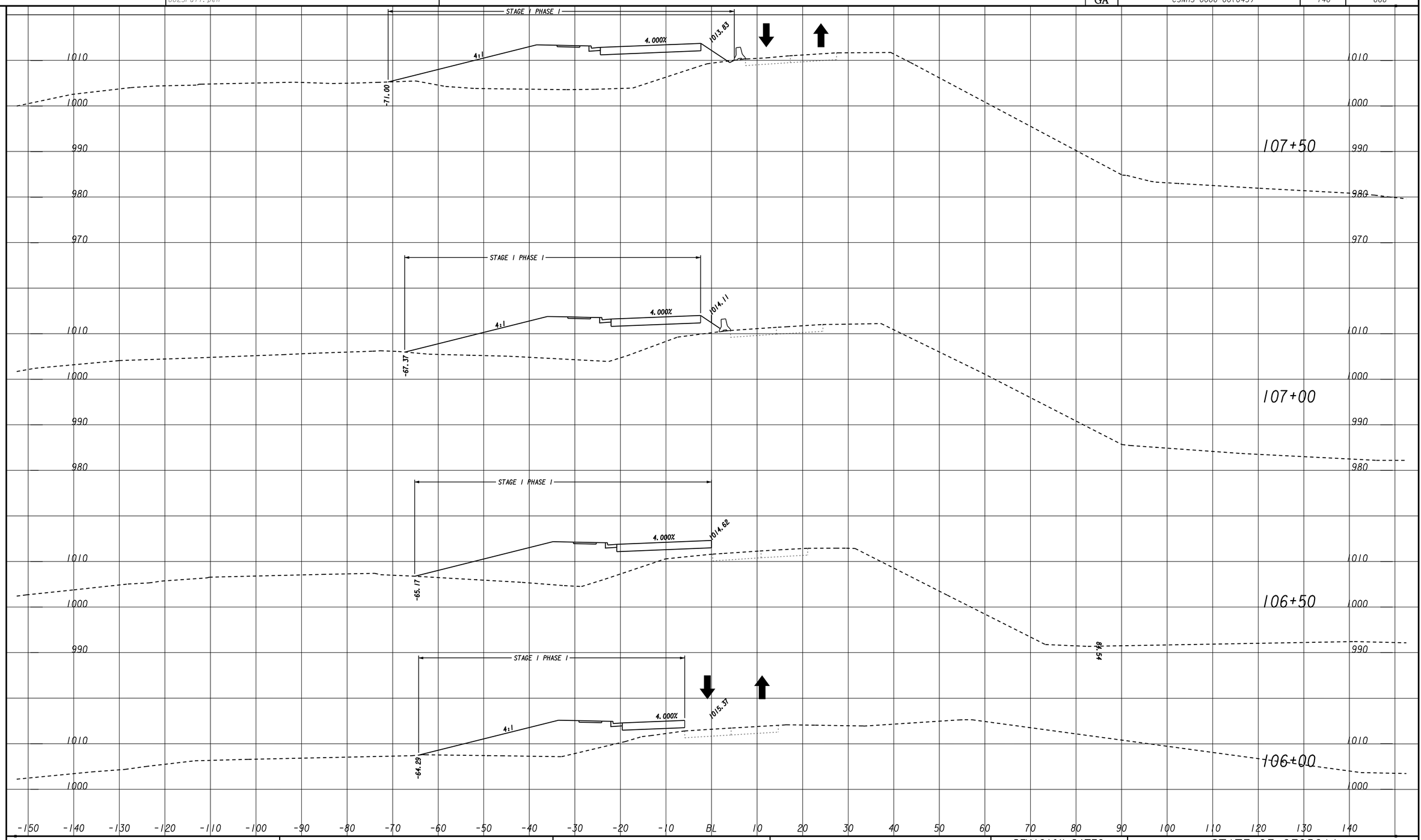
RIDGEWALK PARKWAY

DRAWING No. 19-044

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	146	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

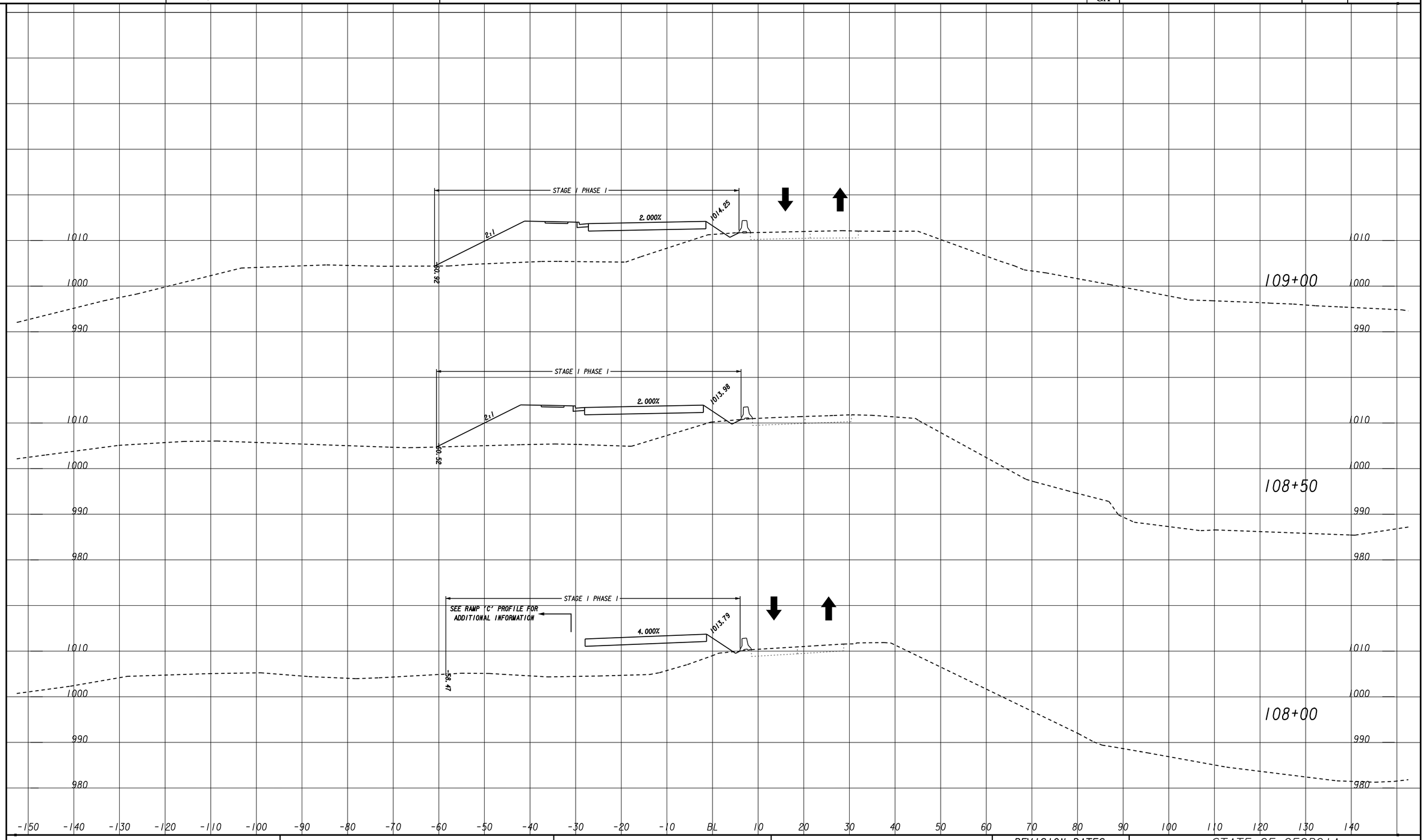
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-045

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

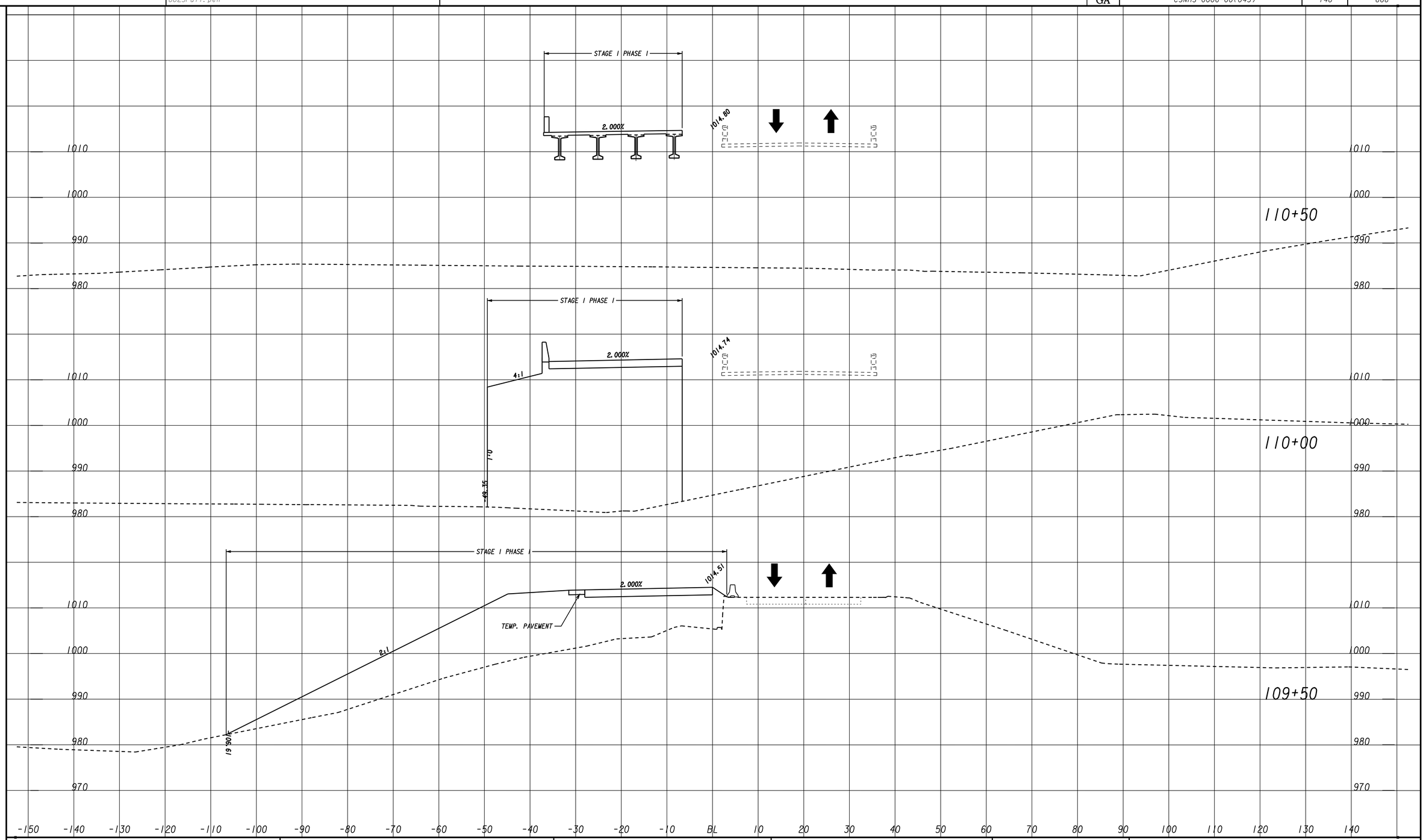
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-046

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

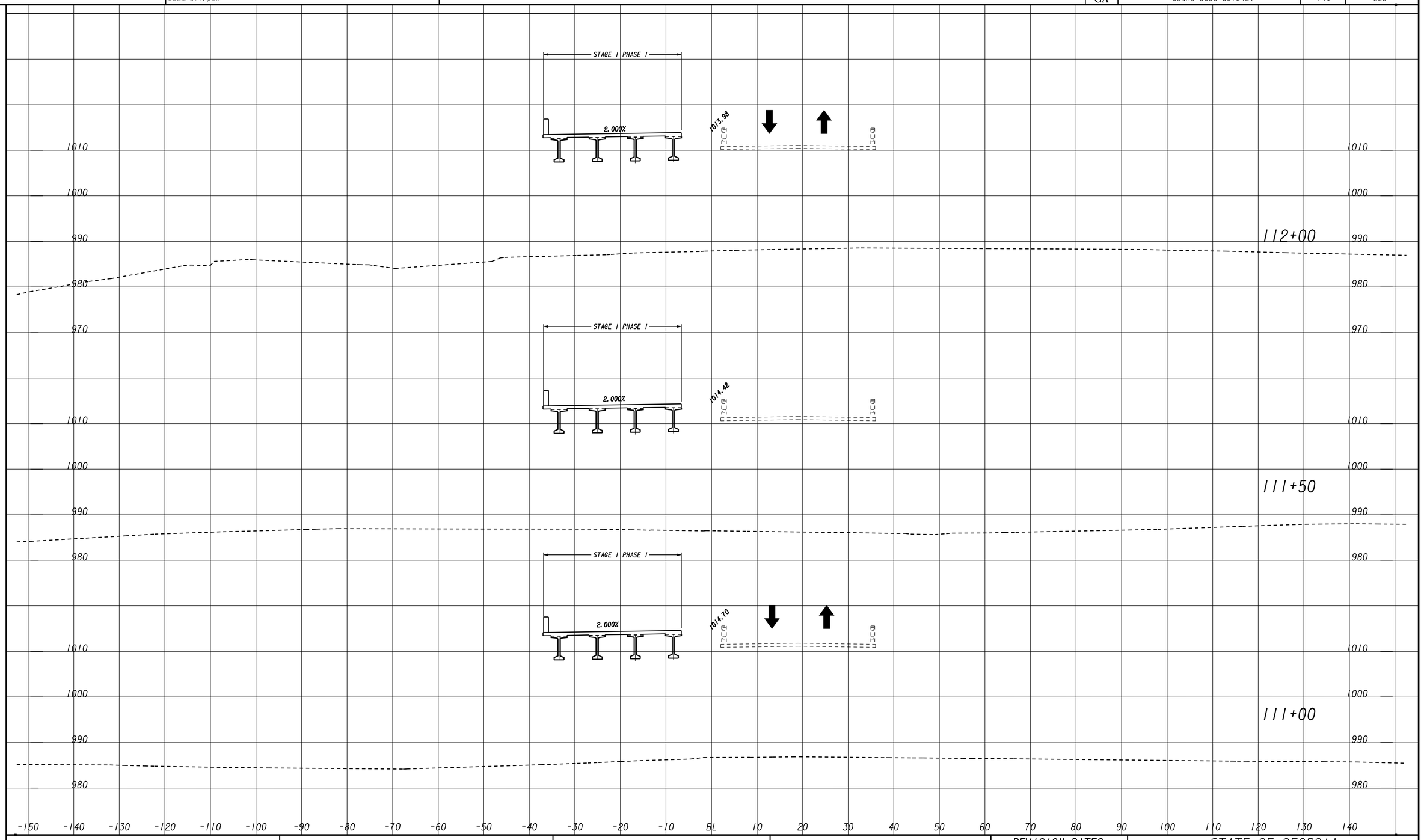
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-047

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

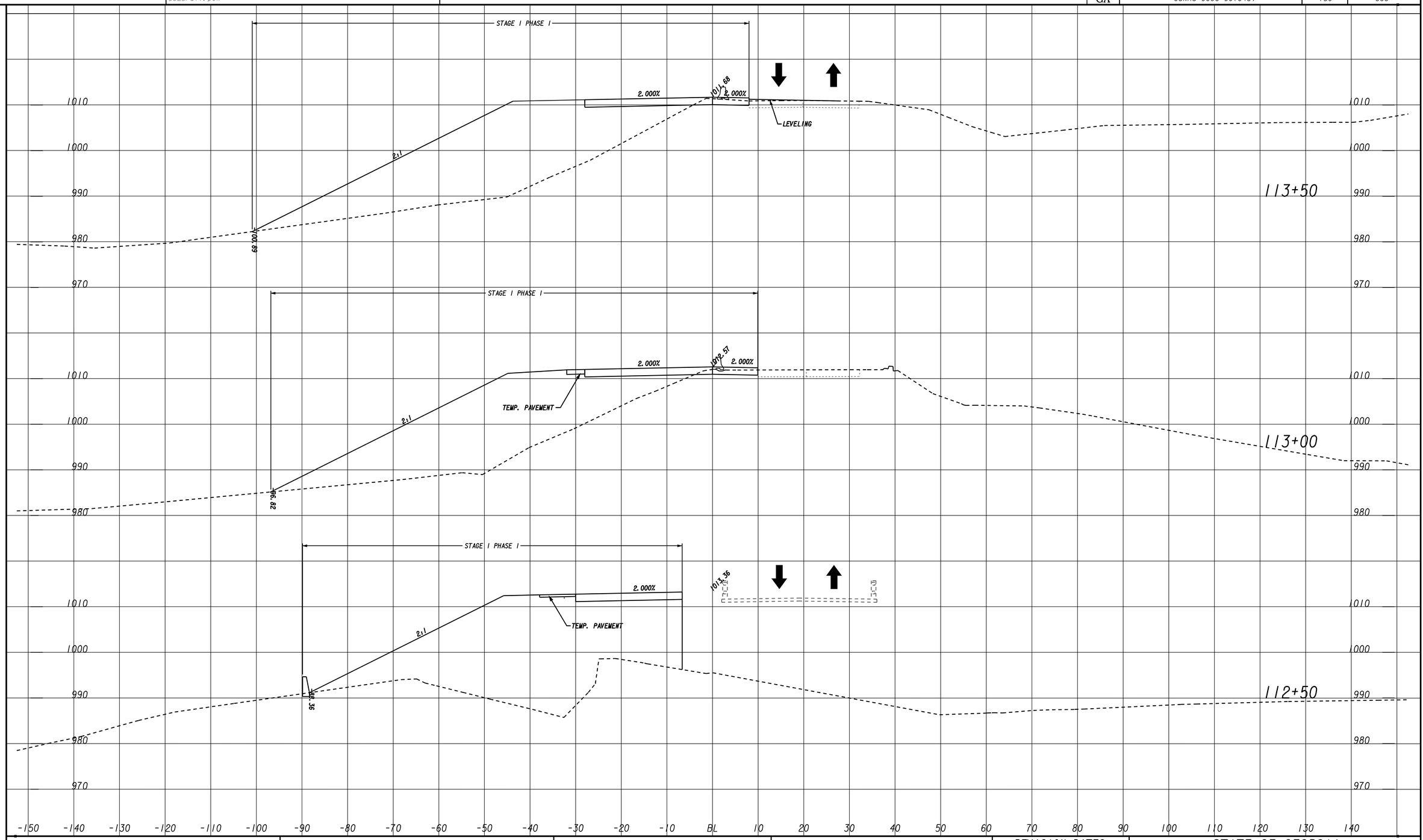
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-048

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

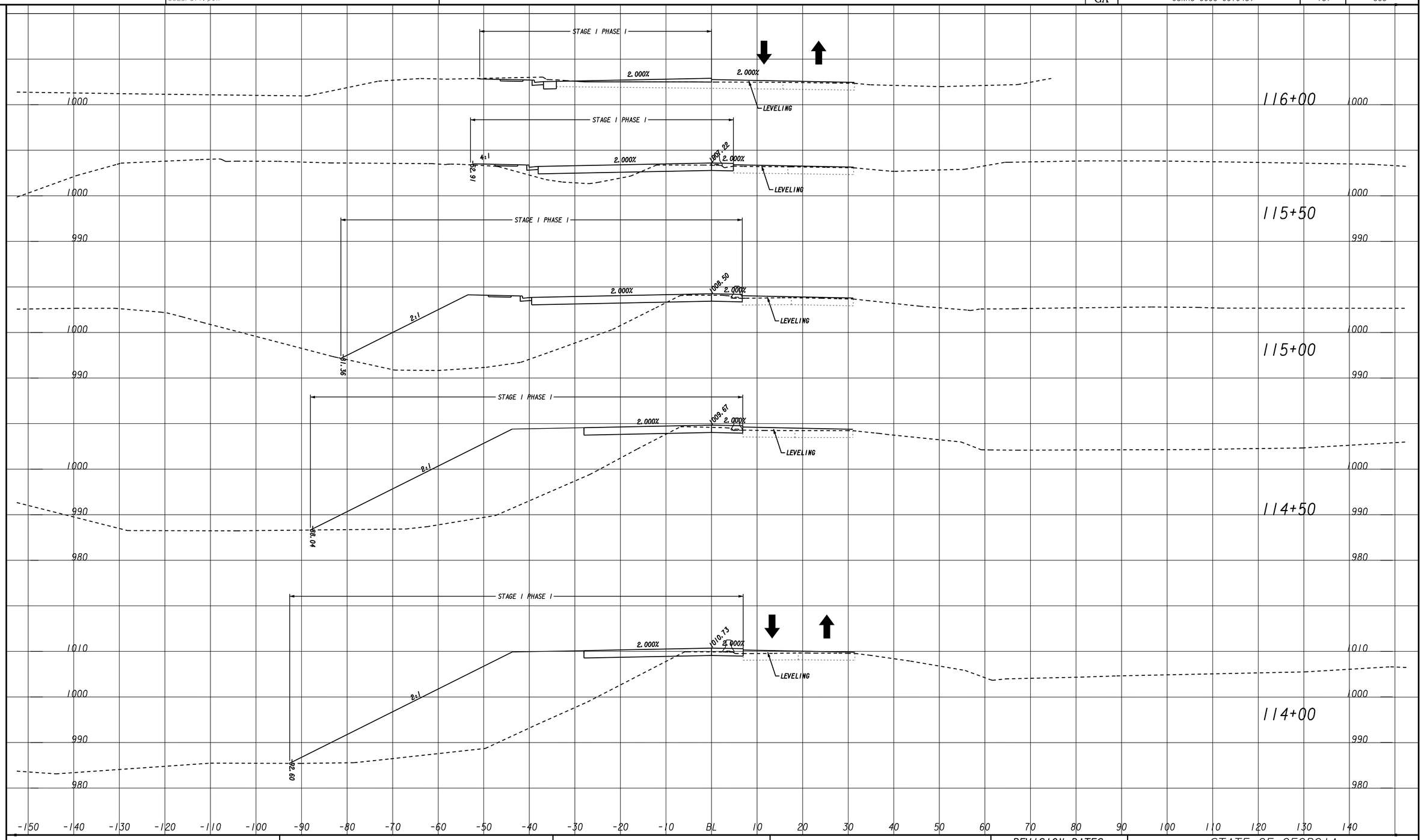
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-049

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

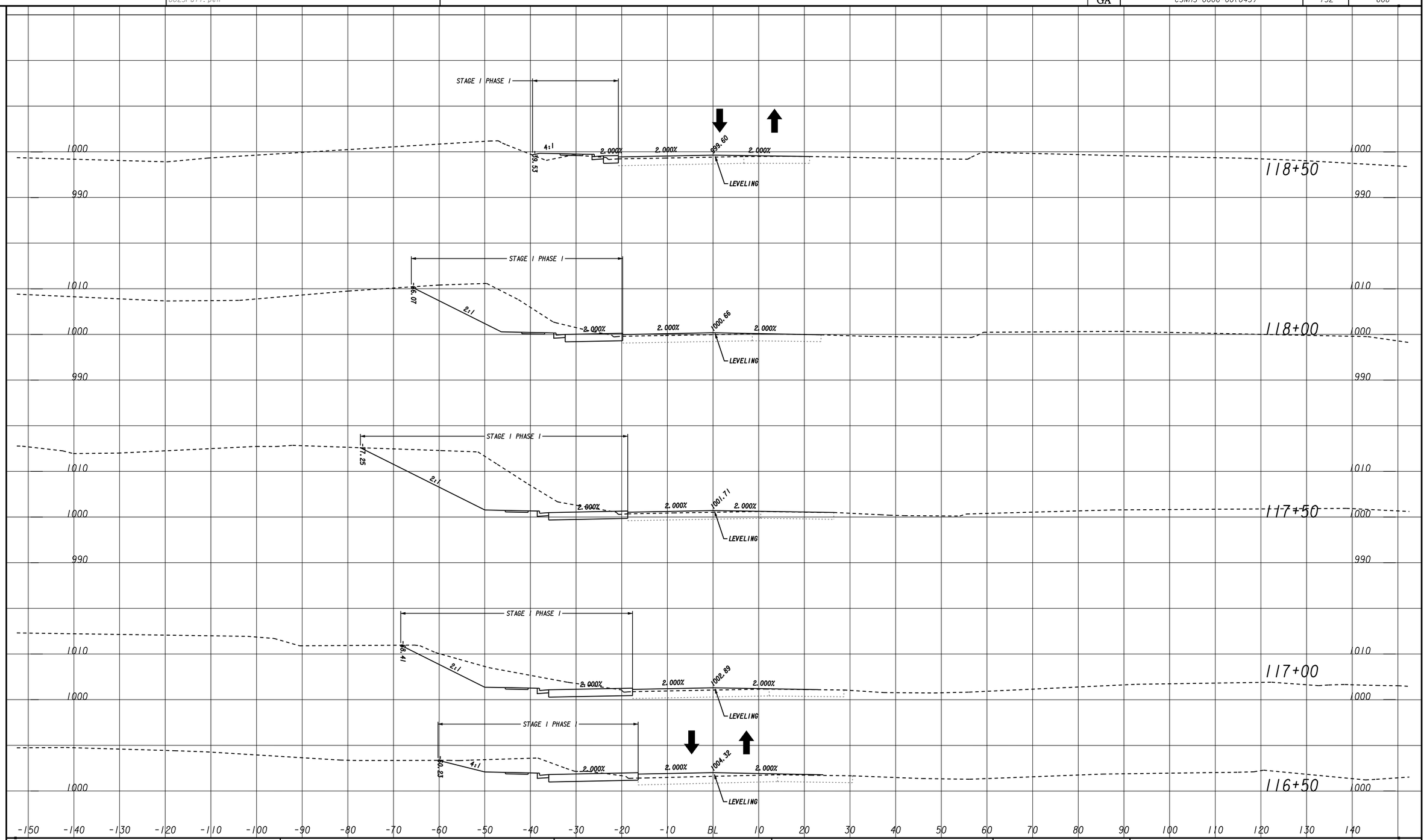
RIDGEWALK PARKWAY

DRAWING No. 19-050

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	152	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

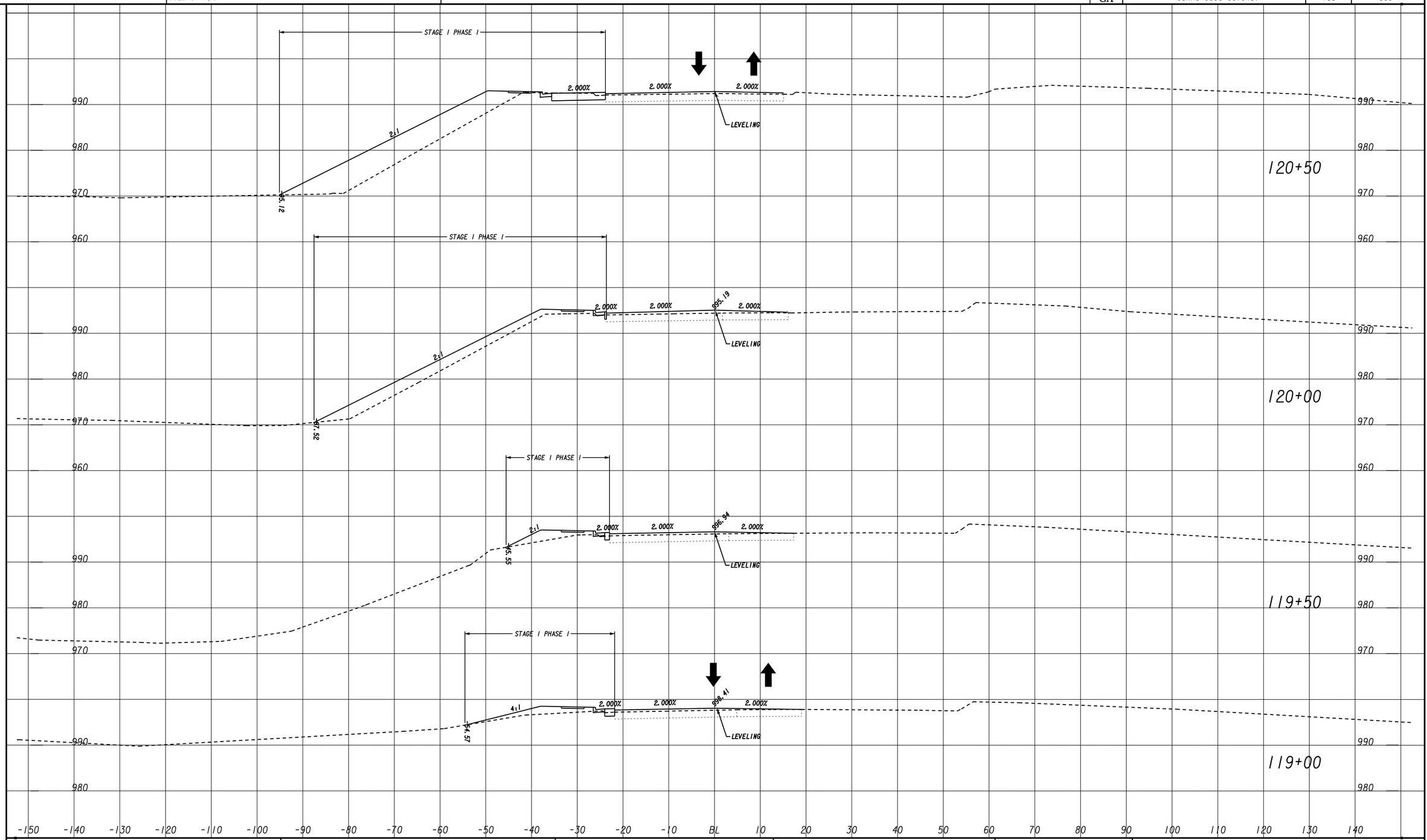
RIDGEWALK PARKWAY

DRAWING No. 19-051

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	153	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

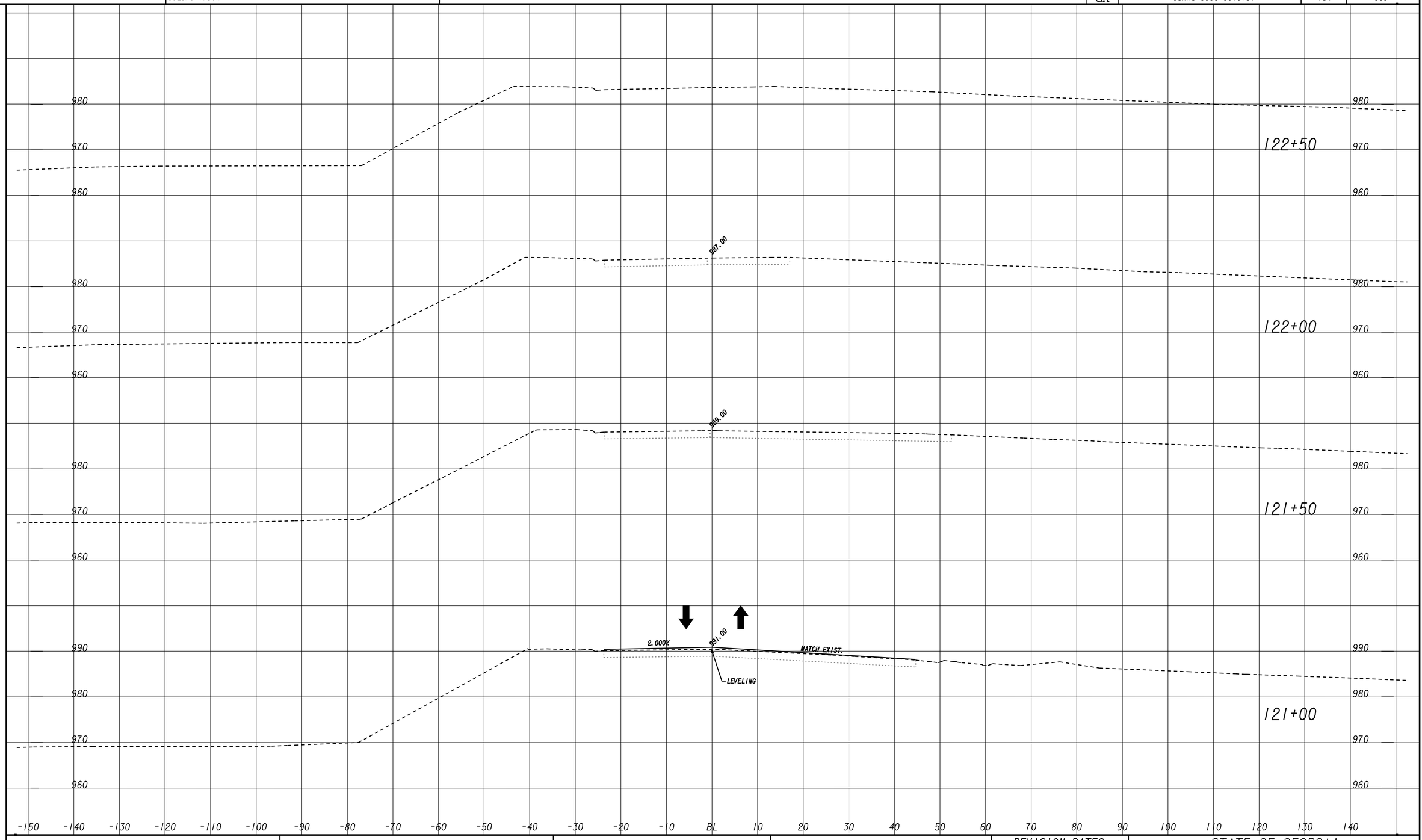
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-052

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

STAGE 1 PHASE 1

.

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

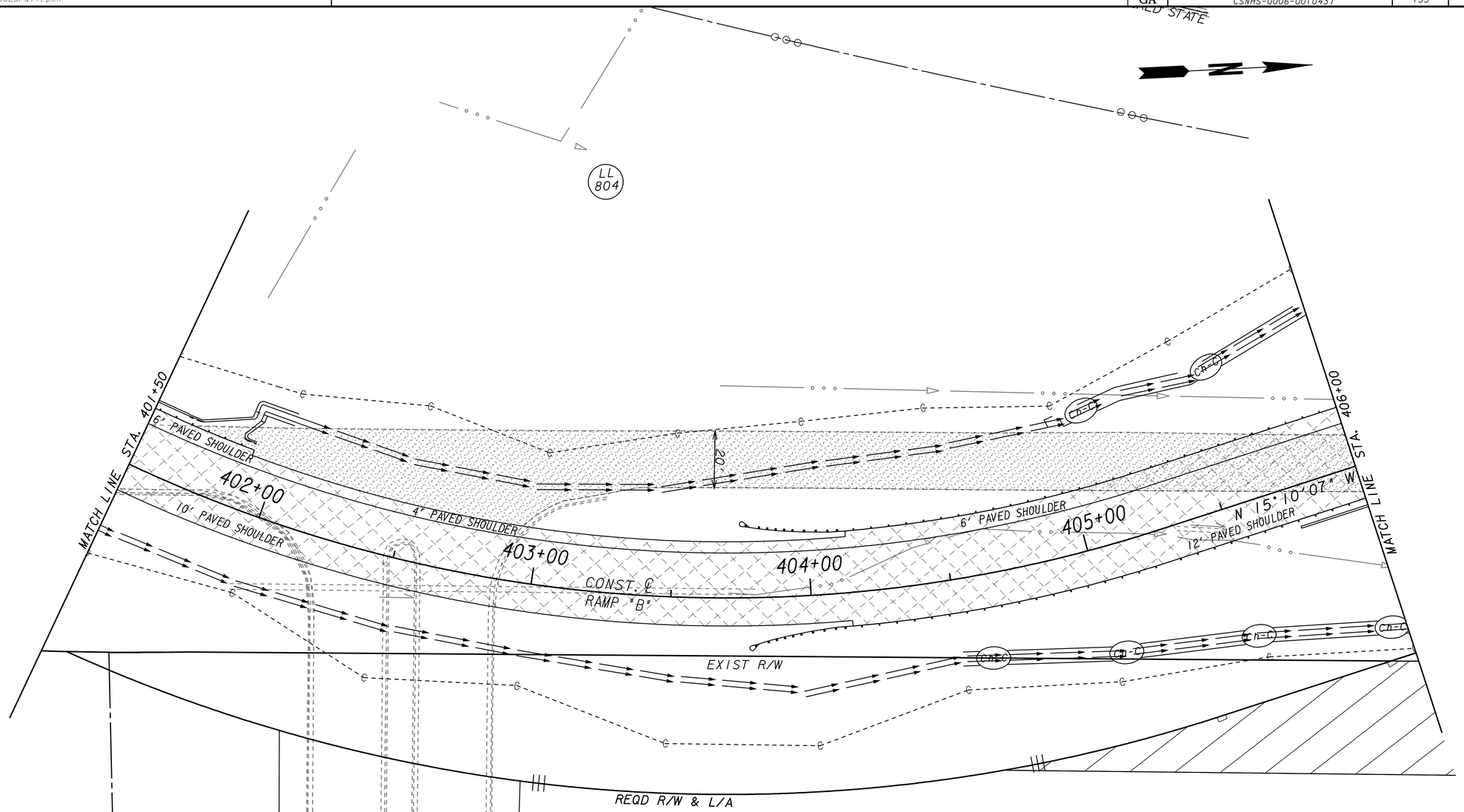
RIDGEWALK PARKWAY

DRAWING No. 19-053

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	155	668

RELEASED FOR CONSTRUCTION 12/02/10



STAGE 1 PHASE 2
1. SHIFT TRAFFIC TO RELOCATED OLD ROPE MILL ROAD. CLOSE EXISTING OLD ROPE MILL ROAD.
2. RELOCATE OR ADJUST CONFLICTING UTILITIES TO PERMANENT OR TEMPORARY LOCATIONS AS NEEDED TO ACCOMMODATE STAGE 1-PHASE 2 CONSTRUCTION.
3. CONSTRUCT RAMP B. COMPLETE CONSTRUCTION OF RAMPS A, C, AND D.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 2

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

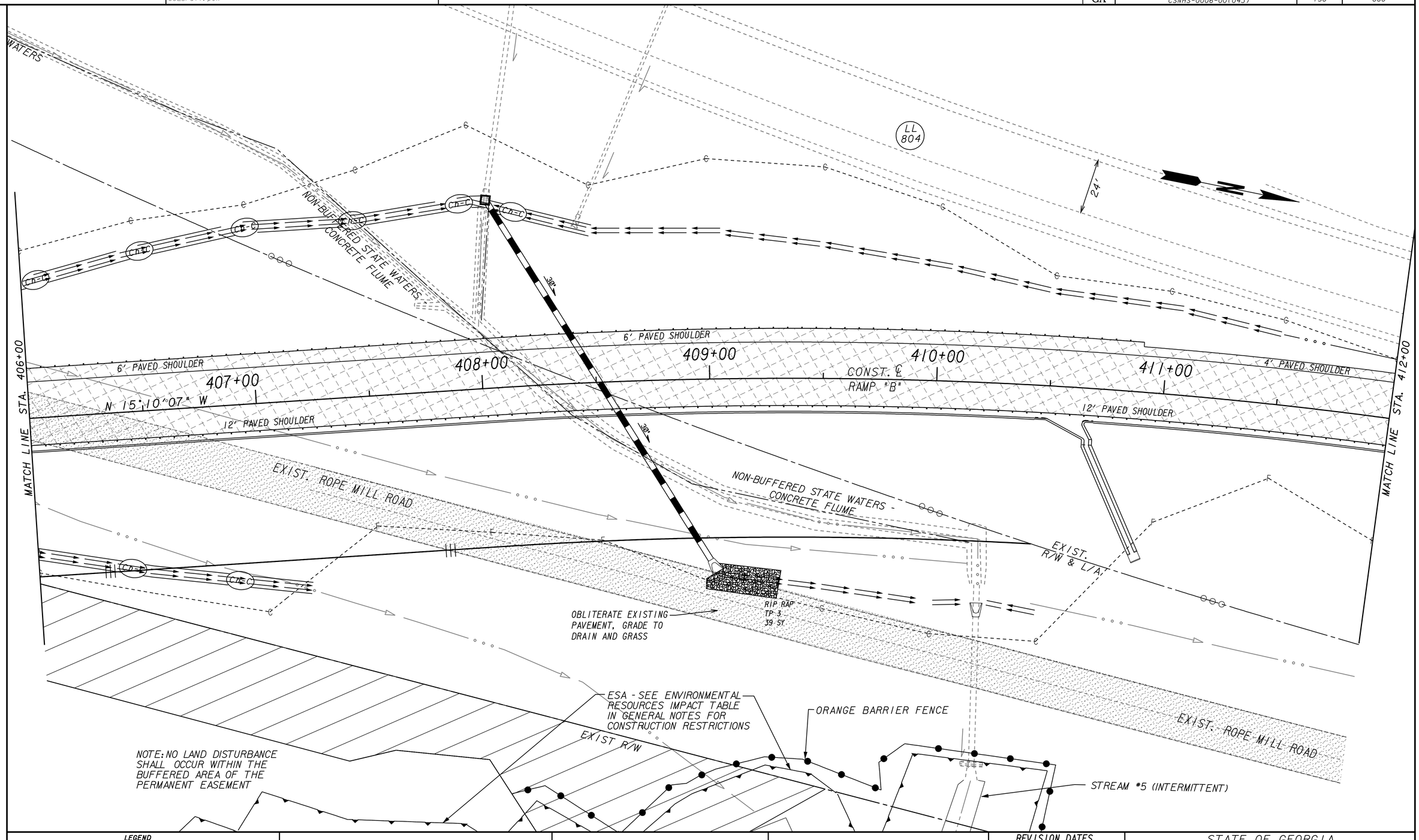
I-575 NB ENTRANCE RAMP B
STA. 401+50 TO STA. 406+00

DRAWING No. 19-054

1/5/2009 GPLN

06-DEC-2010 11:23	TIME$$$	006043ST25-1B	R:\07400004\006043\DGN\006043ST25-1B.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	156	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 2

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

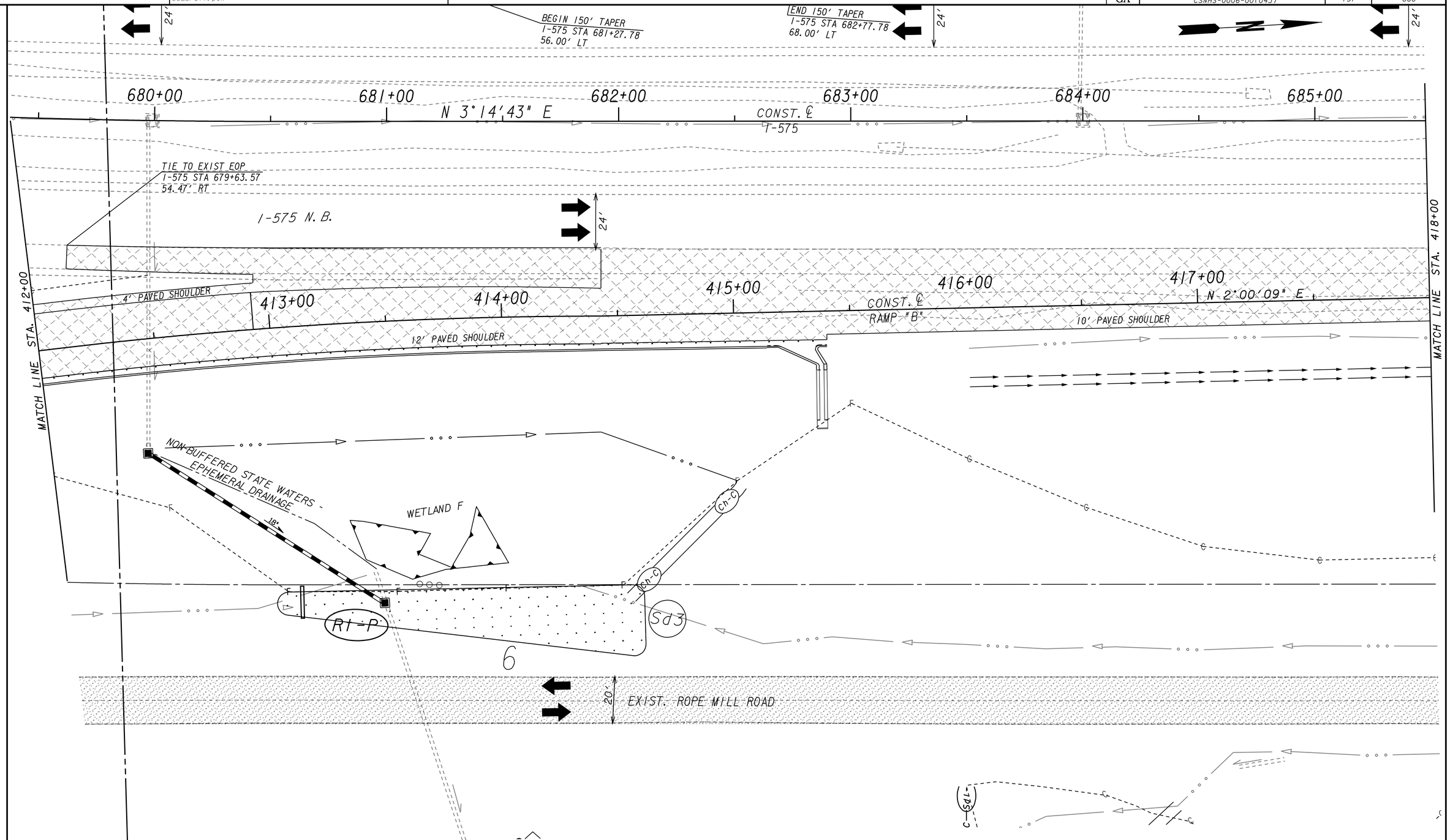
CONSTRUCTION STAGING PLAN

I-575 NB ENTRANCE RAMP B
STA. 406+00 TO STA. 412+00

DRAWING No. 19-055

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 2

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

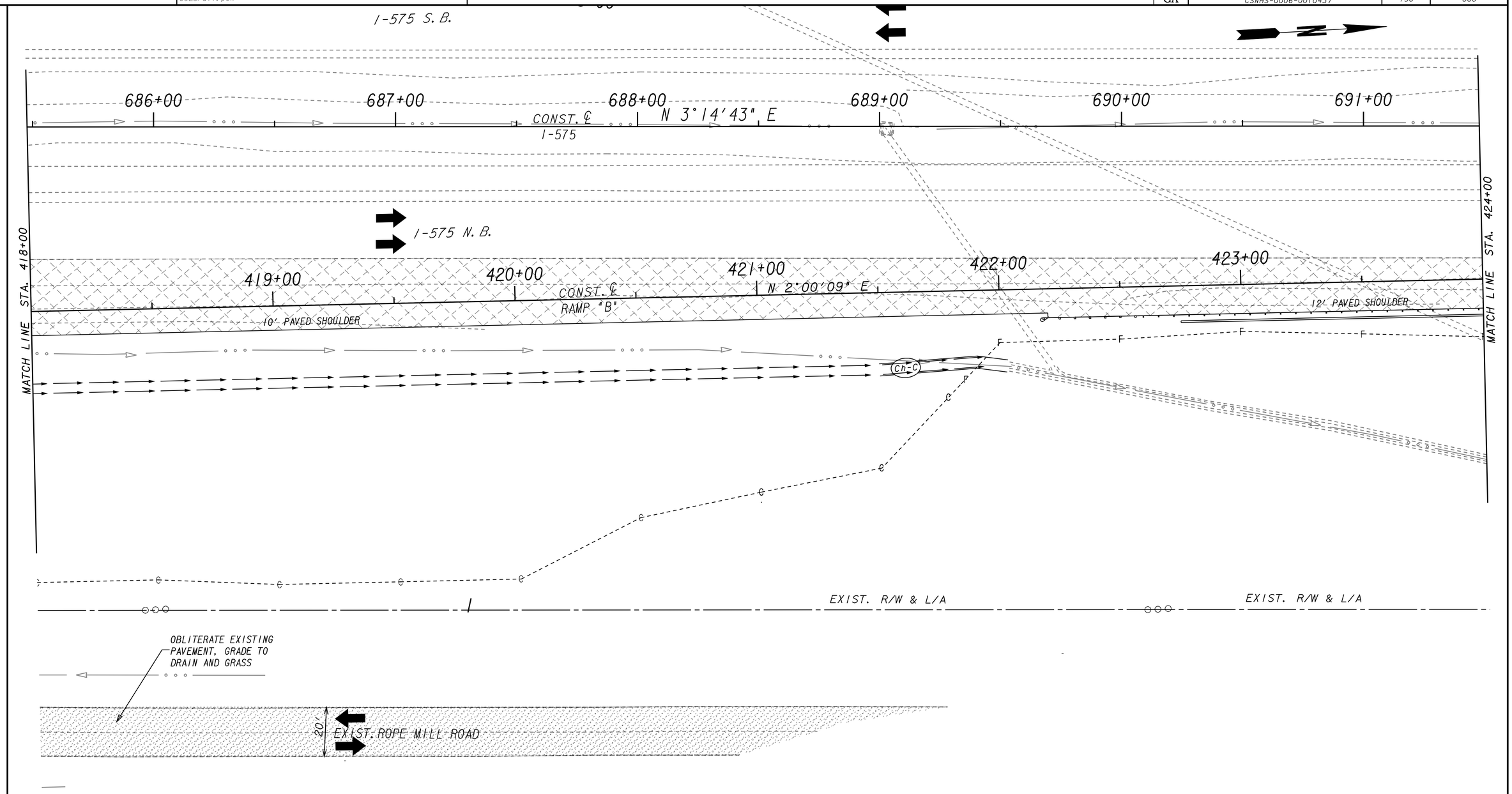
CONSTRUCTION STAGING PLAN

I-575 NB ENTRANCE RAMP B
STA. 412+00 TO STA. 418+00

DRAWING No. 19-056

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 2

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
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CONSTRUCTION STAGING PLAN

I-575 NB ENTRANCE RAMP B
STA. 418+00 TO STA. 424+00

DRAWING No. 19-057

1/5/2009 GPLN

06-DEC-2010 11:41	TIME$$$	006043ST28-1B	R:\07400004\006043\DGN\006043ST28-1B.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	159	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

692+00 693+00 694+00 695+00 696+00 697+00

CONST. ℄ I-575

N 3°14'43" E

I-575 N.B.

MATCH LINE STA. 418+00

425+00 426+00 427+00

N 2°00'09" E

CONST. ℄ RAMP "B"

12' PAVED SHOULDER

END RAMP "B" STA. 427+96.04

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
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- OPEN LANES OF TRAFFIC

STAGE 1 PHASE 2

THE LPA GROUP
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0 20 40 80

REVISION DATES

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CONSTRUCTION STAGING PLAN

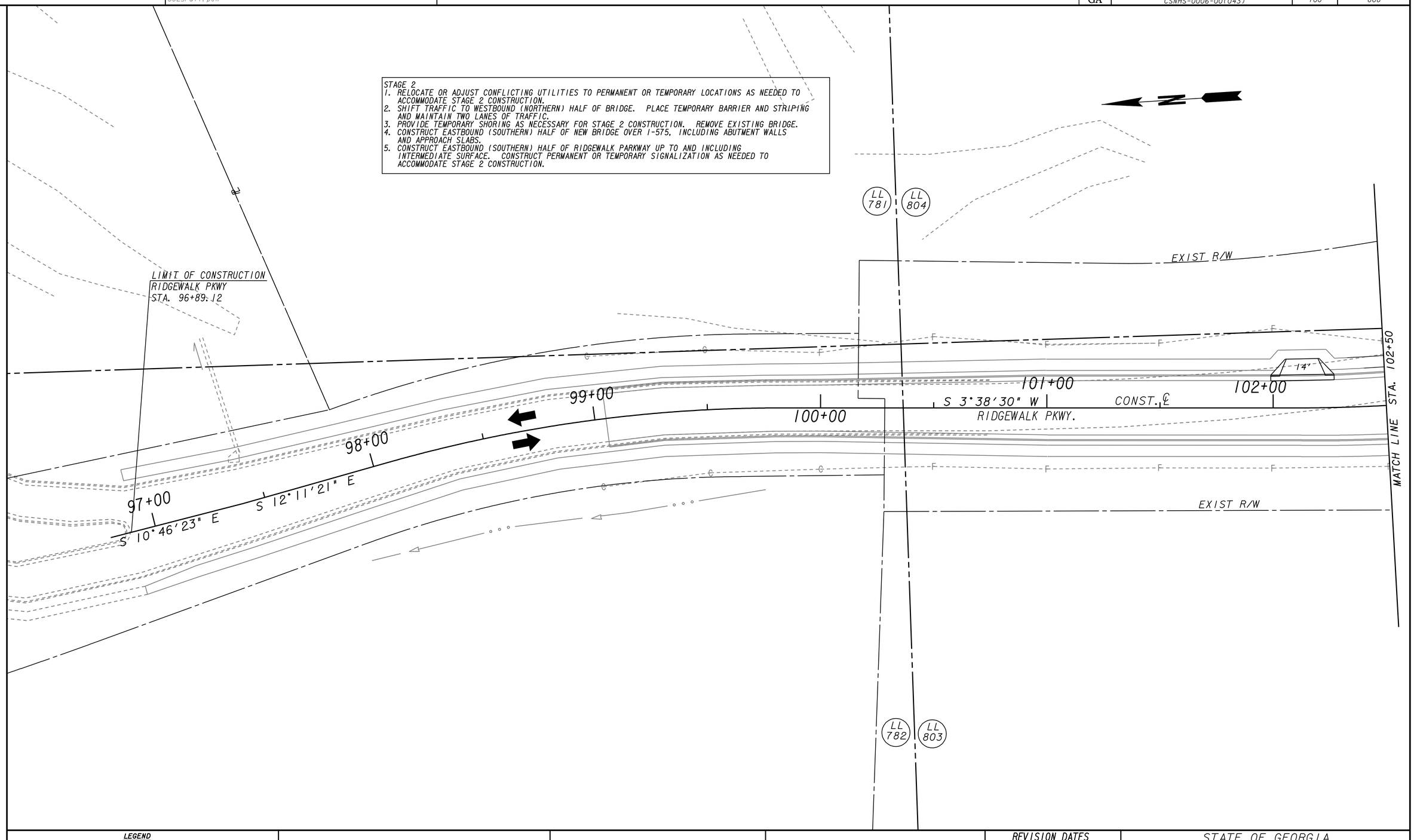
I-575 NB ENTRANCE RAMP B
STA. 418+00 TO END CONST.

DRAWING No. 19-058

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STAGE 2
1. RELOCATE OR ADJUST CONFLICTING UTILITIES TO PERMANENT OR TEMPORARY LOCATIONS AS NEEDED TO ACCOMMODATE STAGE 2 CONSTRUCTION.
2. SHIFT TRAFFIC TO WESTBOUND (NORTHERN) HALF OF BRIDGE. PLACE TEMPORARY BARRIER AND STRIPING AND MAINTAIN TWO LANES OF TRAFFIC.
3. PROVIDE TEMPORARY SHORING AS NECESSARY FOR STAGE 2 CONSTRUCTION. REMOVE EXISTING BRIDGE.
4. CONSTRUCT EASTBOUND (SOUTHERN) HALF OF NEW BRIDGE OVER I-575, INCLUDING ABUTMENT WALLS AND APPROACH SLABS.
5. CONSTRUCT EASTBOUND (SOUTHERN) HALF OF RIDGEWALK PARKWAY UP TO AND INCLUDING INTERMEDIATE SURFACE. CONSTRUCT PERMANENT OR TEMPORARY SIGNALIZATION AS NEEDED TO ACCOMMODATE STAGE 2 CONSTRUCTION.



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 2

THE LPA GROUP
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REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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CONSTRUCTION STAGING PLAN

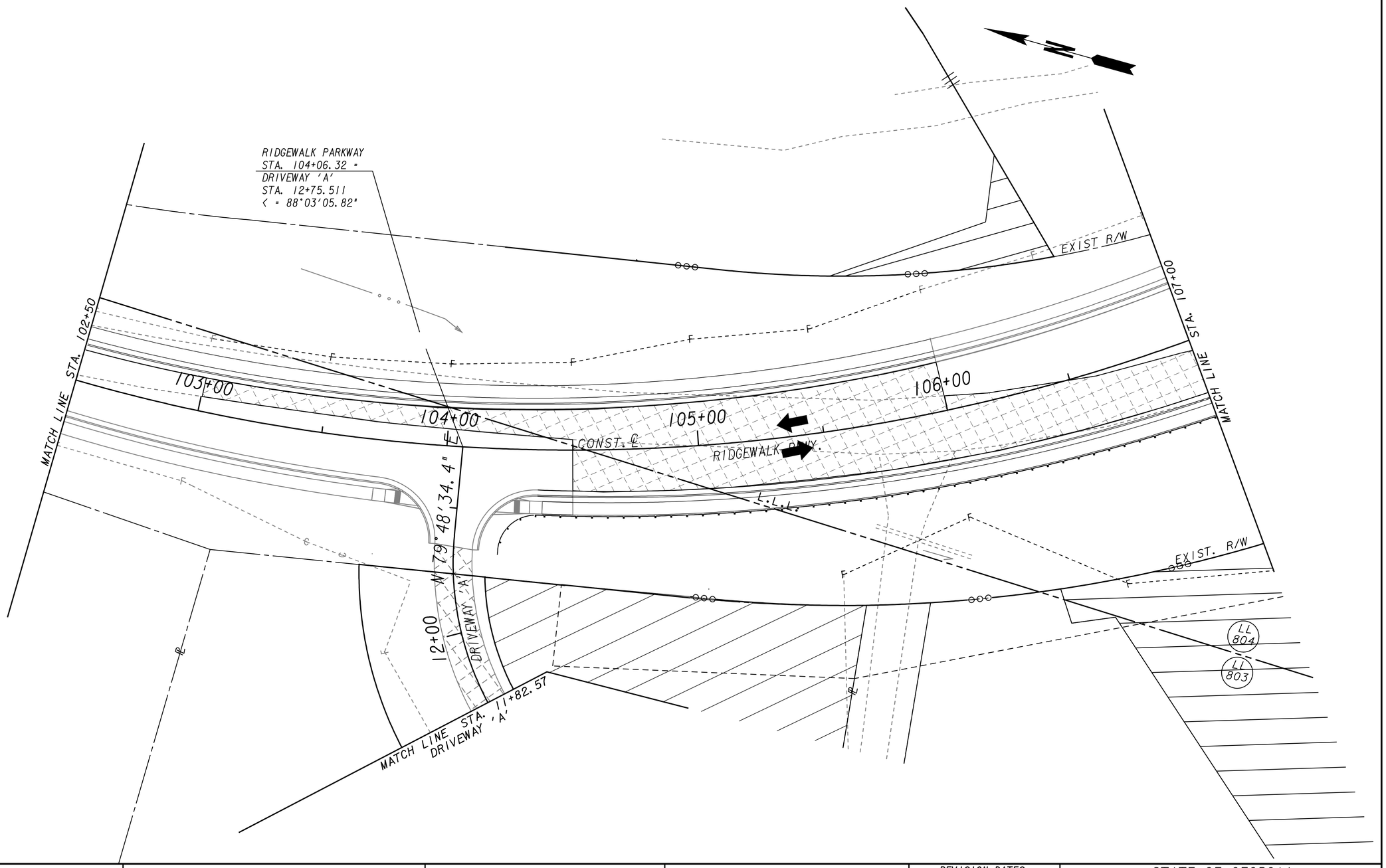
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 19-059

1/5/2009 GPLN

06-DEC-2010 11:24	TIME$$$	006043ST30-2	R:\07400004\006043\DGN\006043ST30-2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	161	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 2

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

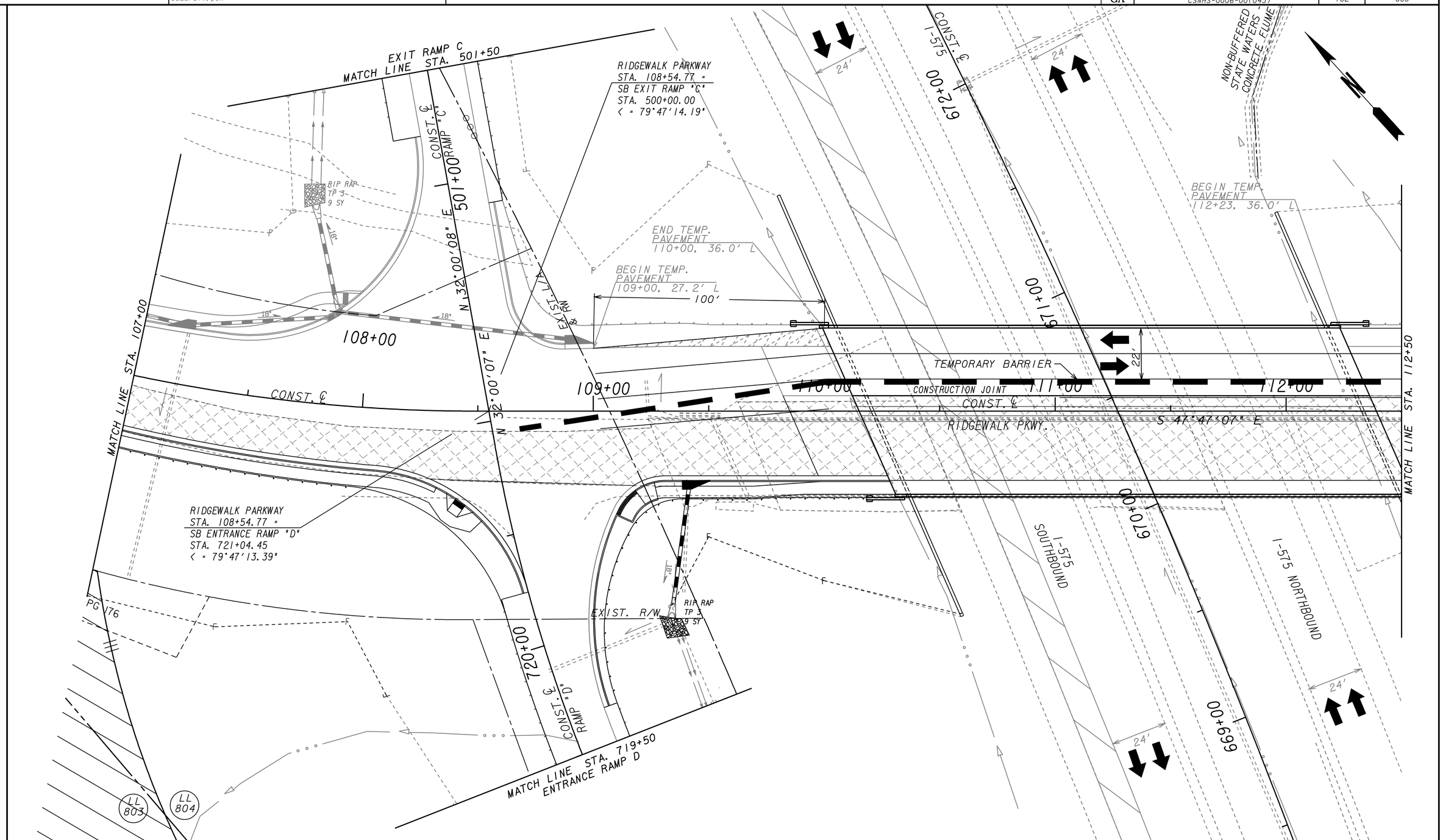
RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 19-060

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	162	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 2

THE LPA GROUP
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 19-061

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

ENTRANCE RAMP B
MATCH LINE STA. 401+50

RAMP "B" ℄ CONST.

RIP RAP TP 3 8 SY

END APPROACH SLAB
STA 112+69.10

END TEMP. PAVEMENT
113+50, 28.0' L

401+00

24'

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00
∠ = 89°48'22.75"

ACCESS EASEMENT

REQD R/W & L/A

LL 804

LL 853

REQD R/W & L/A

EXIST R/W

100'

22'

113+00

114+00

115+00

116+00

117+00

118+00

CONST. ℄

S 47°47'07" E

N 42°01'19" E

RIDGEWALK PKWY.

MAINTAIN ACCESS TO D/W DURING CONSTRUCTION

S 46°36'07" E

MATCH LINE STA. 112+50

MATCH LINE STA. 118+50

24'

319+00

RIP RAP TP 3 8 SY

RIP RAP TP 3 8 SY

EXIST R/W

EXIST. R/W & L/A

REQD L/A

REQD L/A

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65
∠ = 87°58'38.76"

LL 804

LL 853

CONST. ℄ RAMP "A"

ID R/W & L/A

MATCH LINE STA. 318+00
EXIT RAMP A

LEGEND

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STAGE 2

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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CONSTRUCTION STAGING PLAN

RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 19-062

1/5/2009 GPLN

06-DEC-2010 11:25	TIME###	006043ST33-2	R:\07400004\006043\DGN\006043ST33-2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	164	668

RELEASED FOR CONSTRUCTION 12/02/10

RELOC. ROPE MILL ROAD MATCH LINE STA. 201+50

LL 804 — L.L.L. — LL 853

RELOC. ROPE MILL RD

201+00

REQD R/W

EXIST R/W

EXIST R/W

EXIST R/W

MATCH LINE STA. 118+50

119+00

120+00

121+00

122+00

123+00

124+00

N 30°05'53" E

S 46°36'07" E

S 48°00'12" E

39'

18'

18'

CONST. ℄ RIDGEWALK PKWY.

TIE TO EXIST RIDGEWALK PKWY STA. 122+00.00

LL 852

LIMIT OF CONSTRUCTION RIDGEWALK PKWY STA. 126+50.00

EXIST R/W

LL 853

L.L.L.

MANHOLE, TELEPHONE, TOP 984.10

WOODSTOCK PKWY.

RIDGEWALK PARKWAY STA. 121+22.79= RELOC. ROPE MILL ROAD STA. 200+00.00 ∠ = 78°06'05.93"

34'

LEGEND

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STAGE 2

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

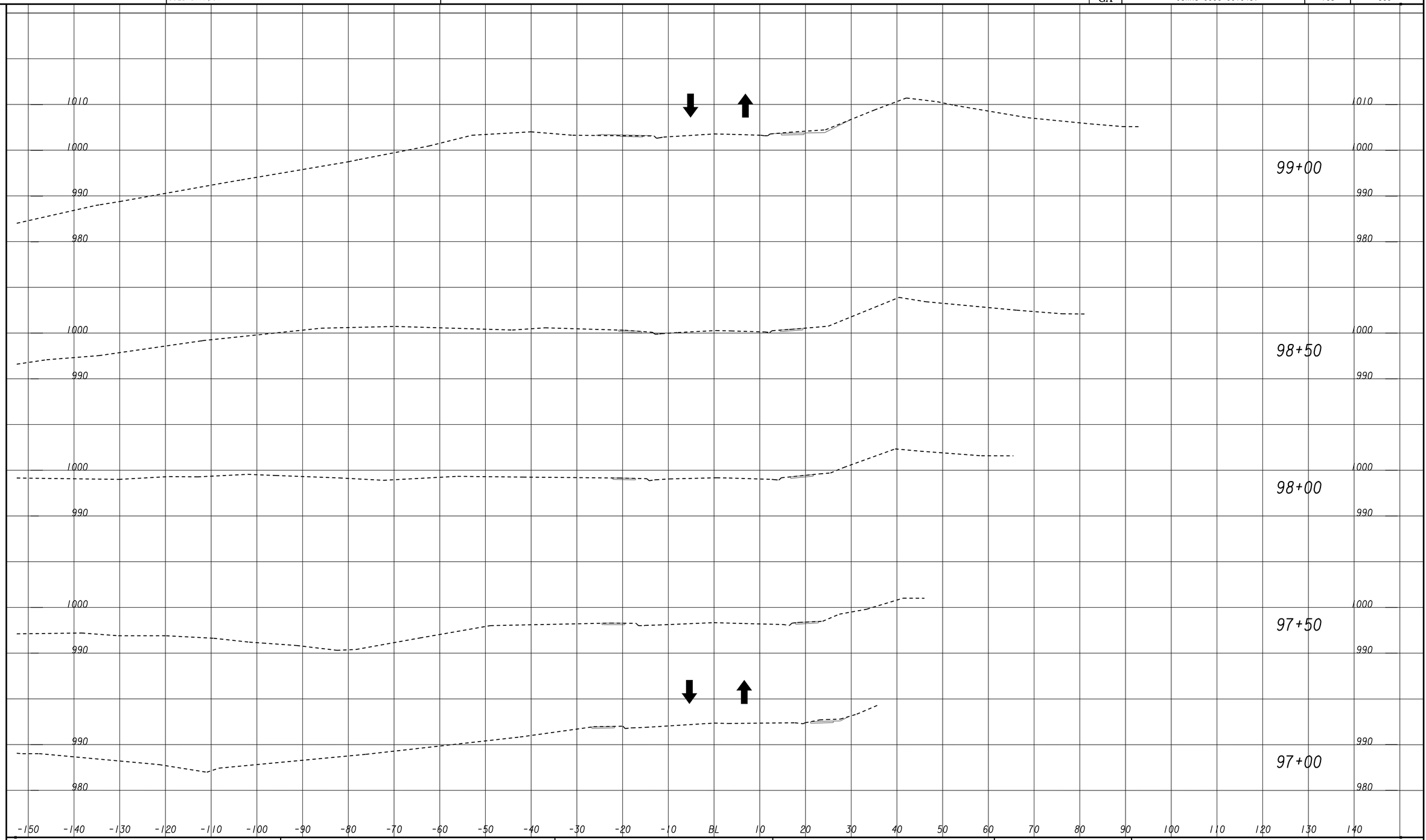
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 19-063

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	165	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
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NORCROSS, GEORGIA 30092
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STAGE 2

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

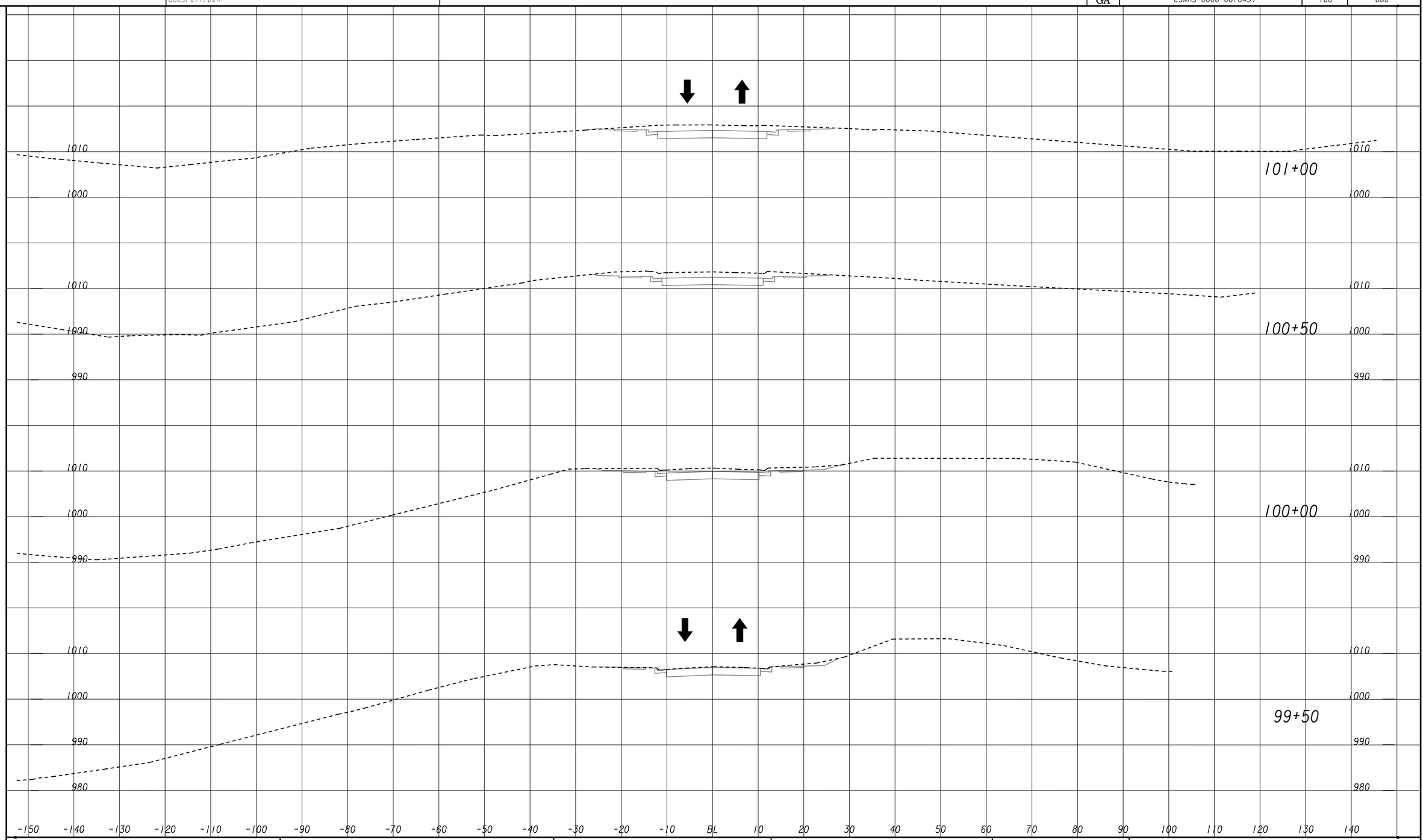
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-064

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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THE LPA GROUP
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STAGE 2

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

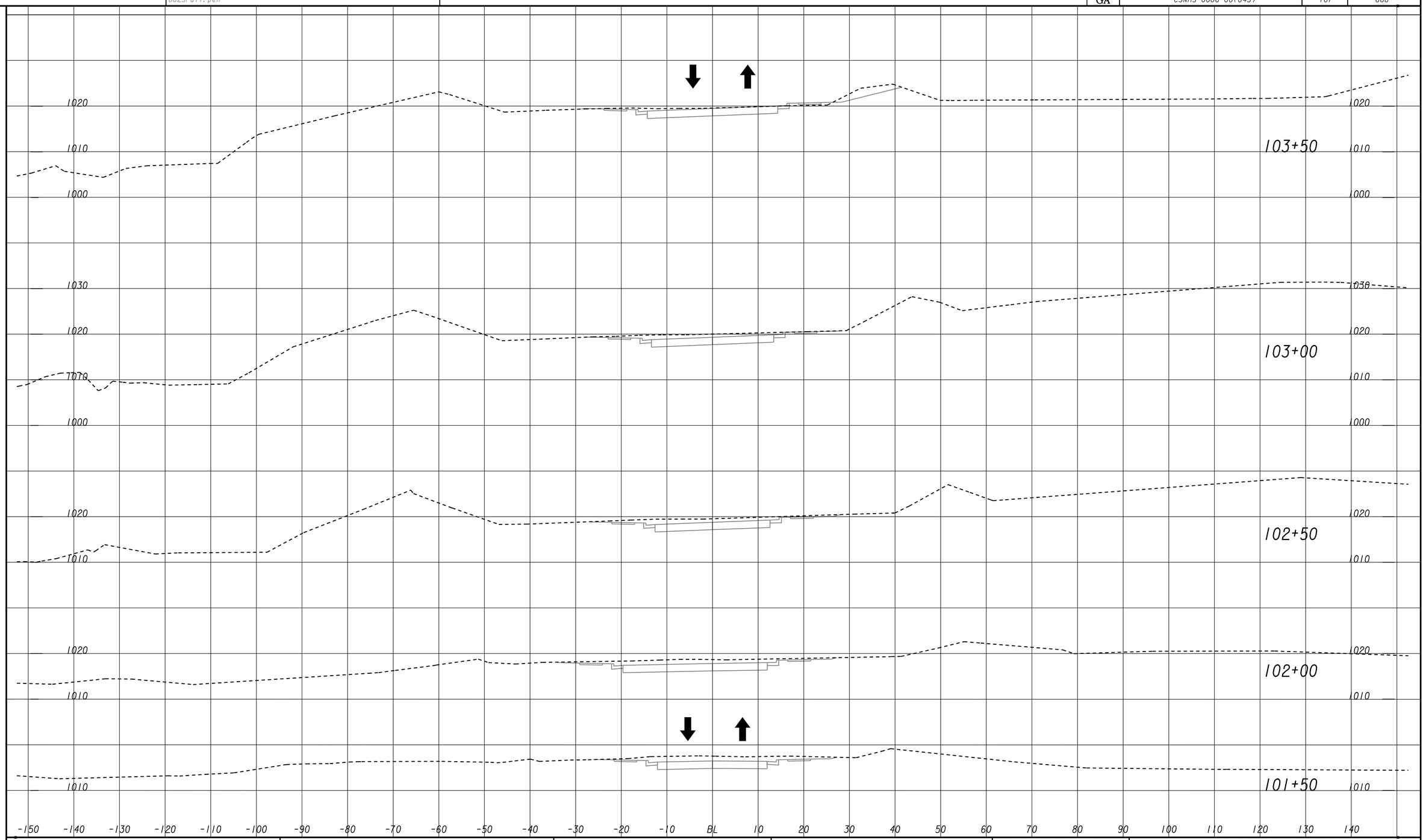
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-065

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

REVISION DATES

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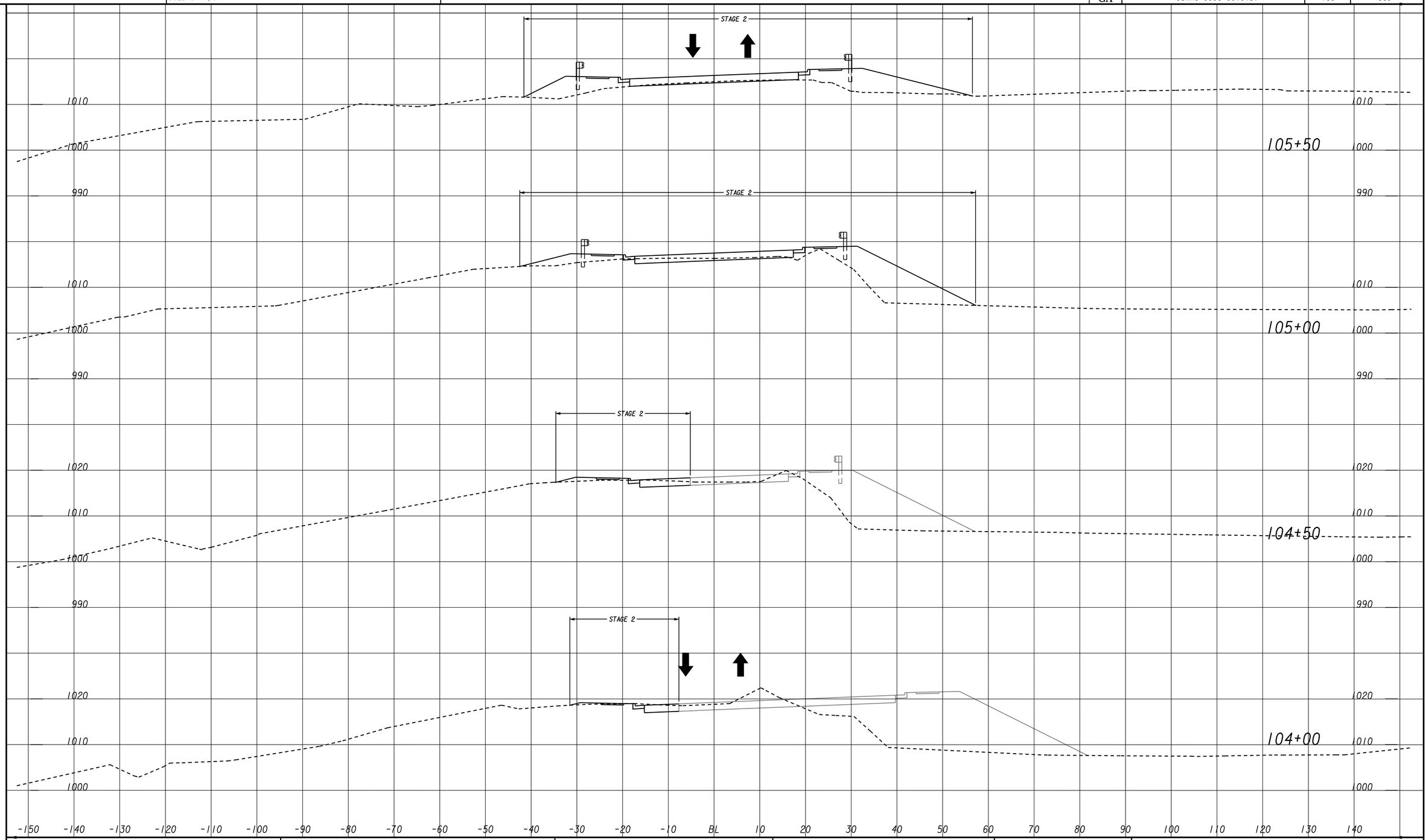
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-066

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

.

REVISION DATES

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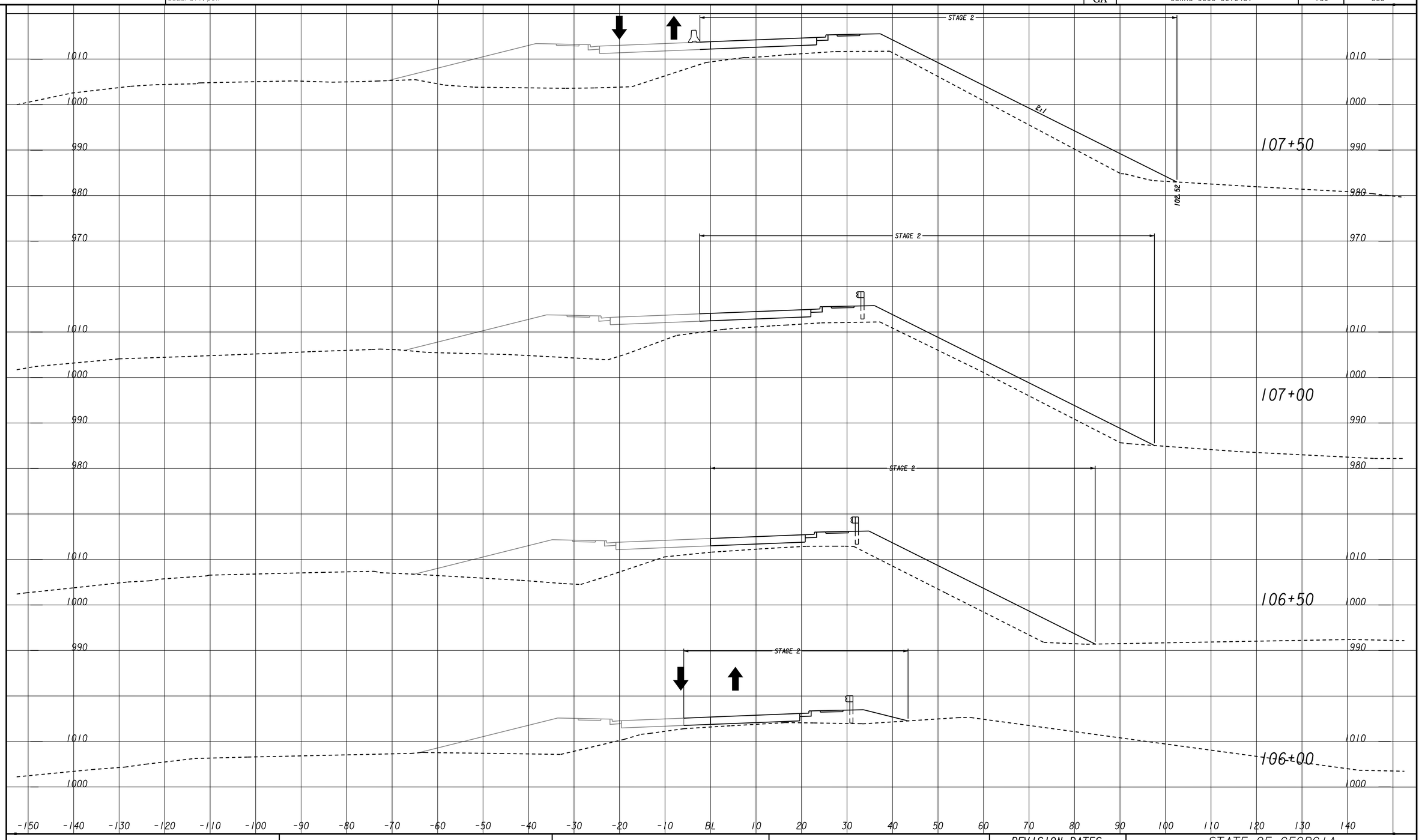
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-067

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

.

REVISION DATES

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DEPARTMENT OF TRANSPORTATION
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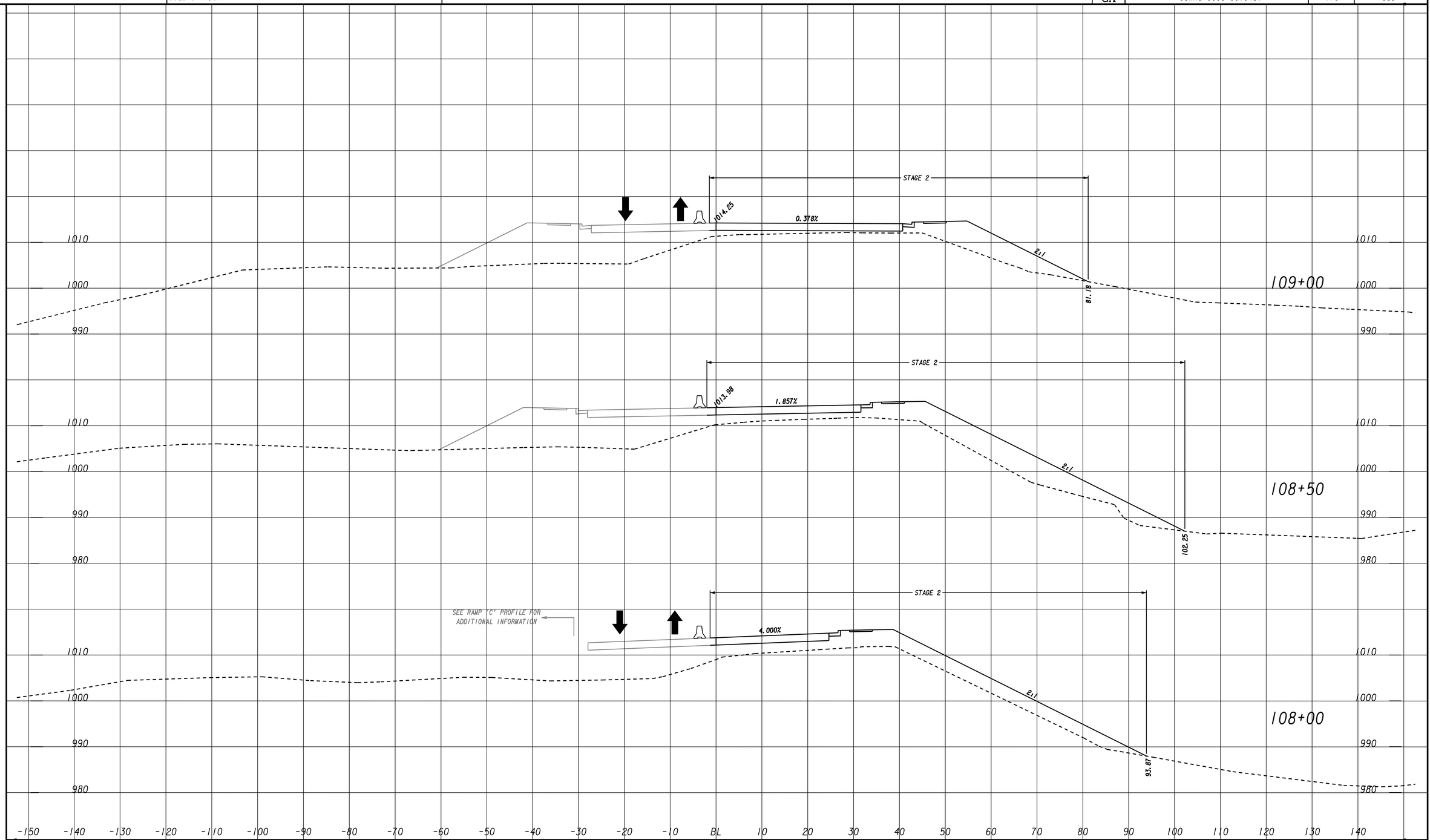
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-068

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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THE LPA GROUP TRANSPORTATION CONSULTANTS
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STAGE 2

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REVISION DATES

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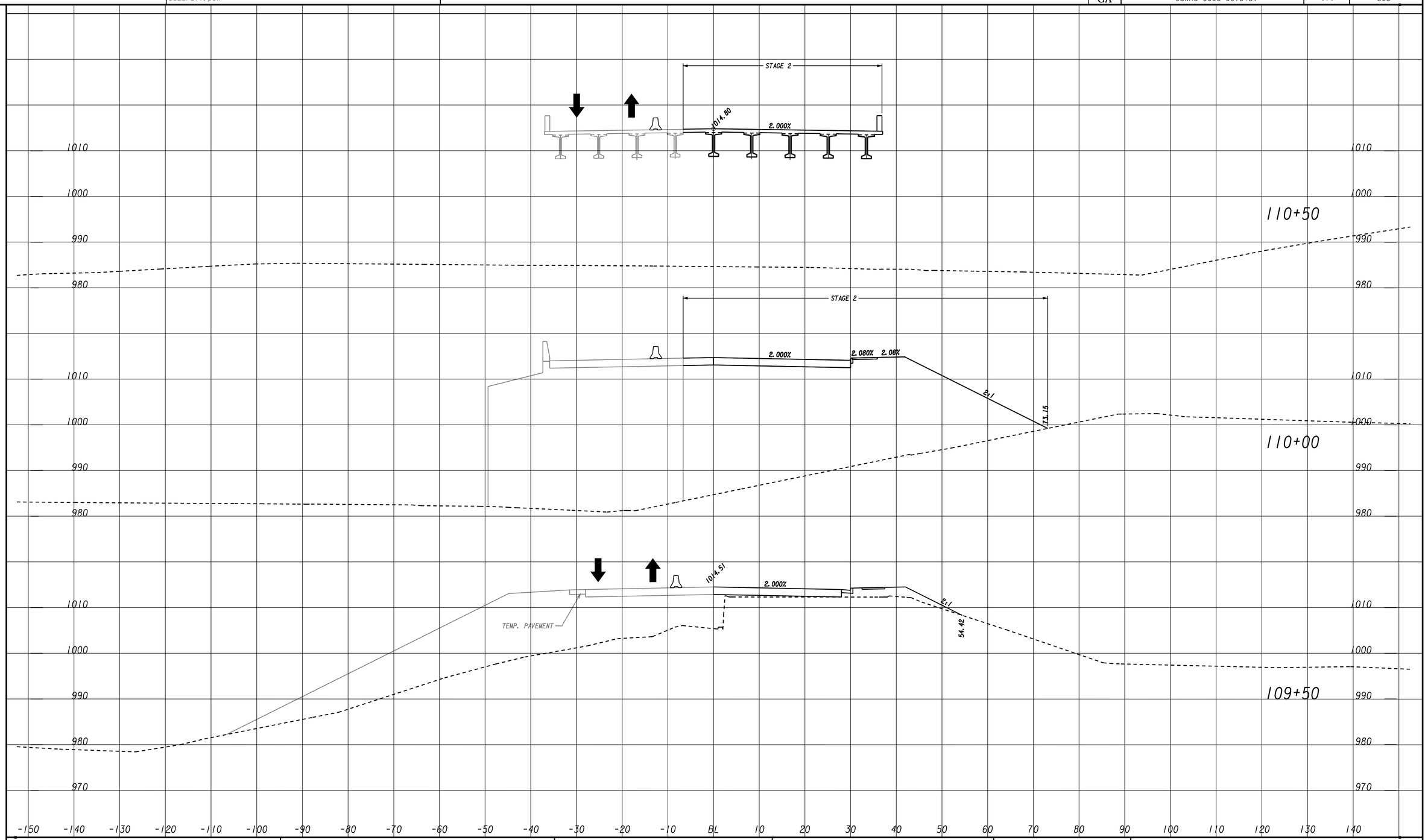
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-069

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

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REVISION DATES

STATE OF GEORGIA
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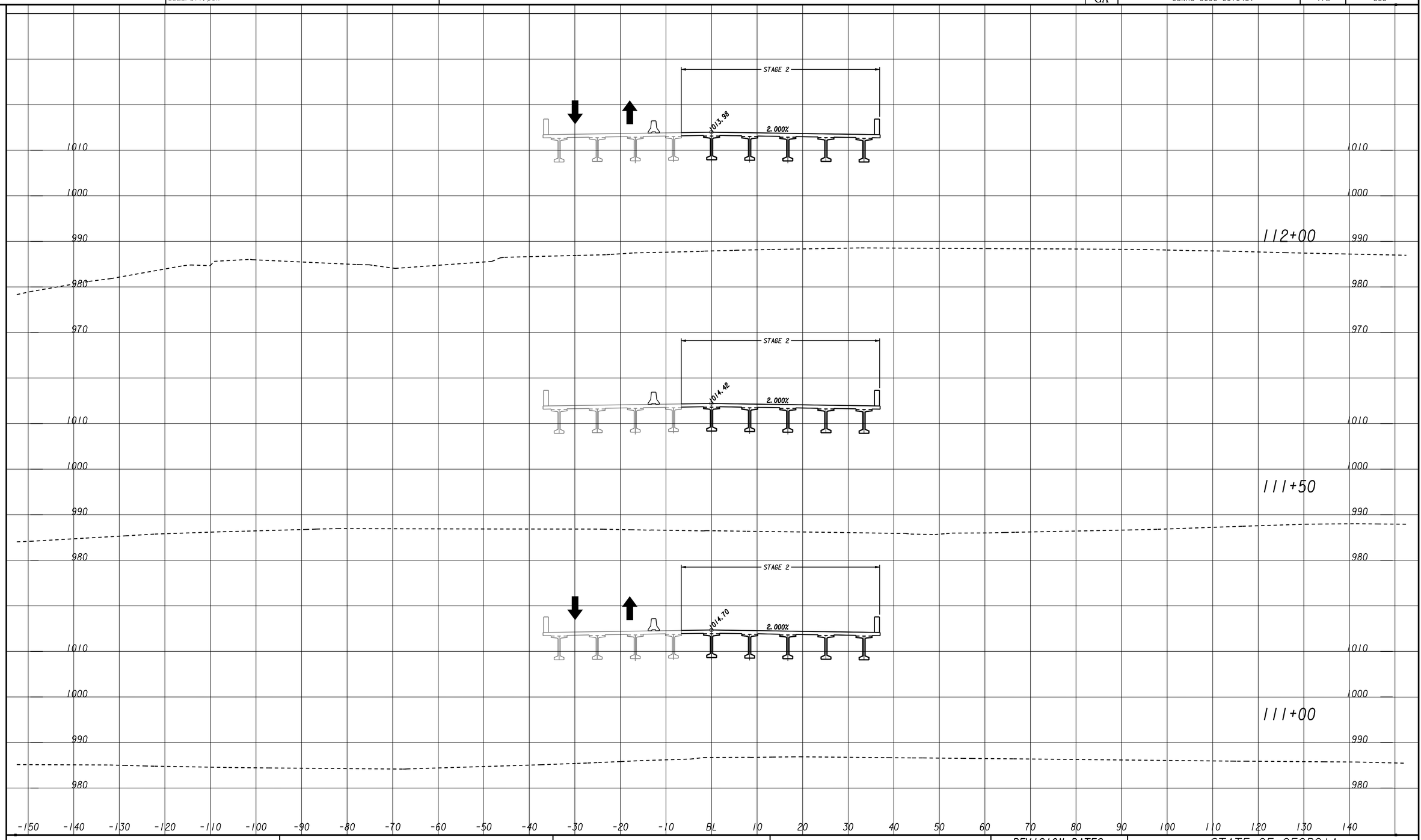
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-070

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

.

REVISION DATES

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CROSS SECTIONS CONSTRUCTION STAGING

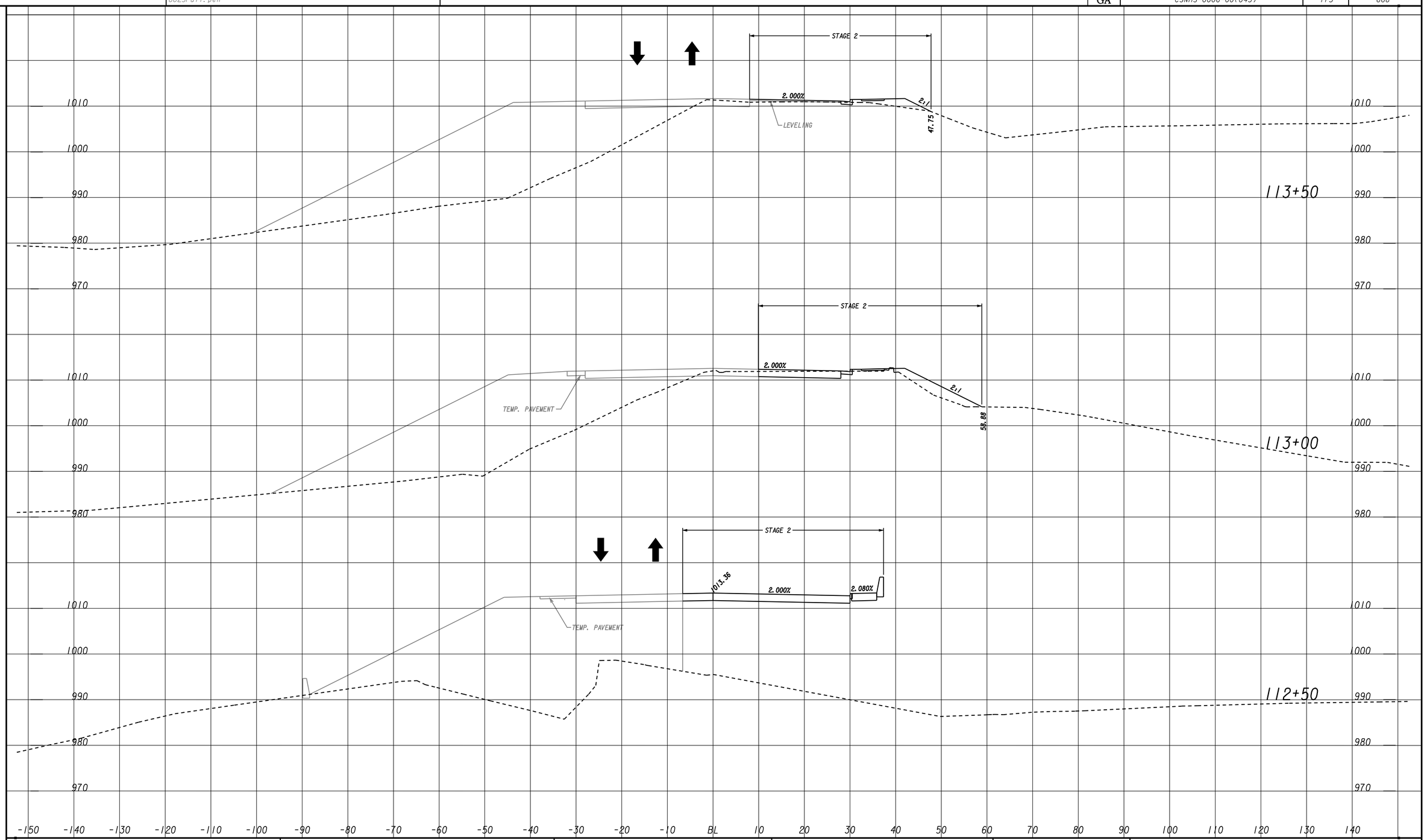
RIDGEWALK PARKWAY

DRAWING No. 19-071

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	173	668

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

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REVISION DATES

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CROSS SECTIONS CONSTRUCTION STAGING

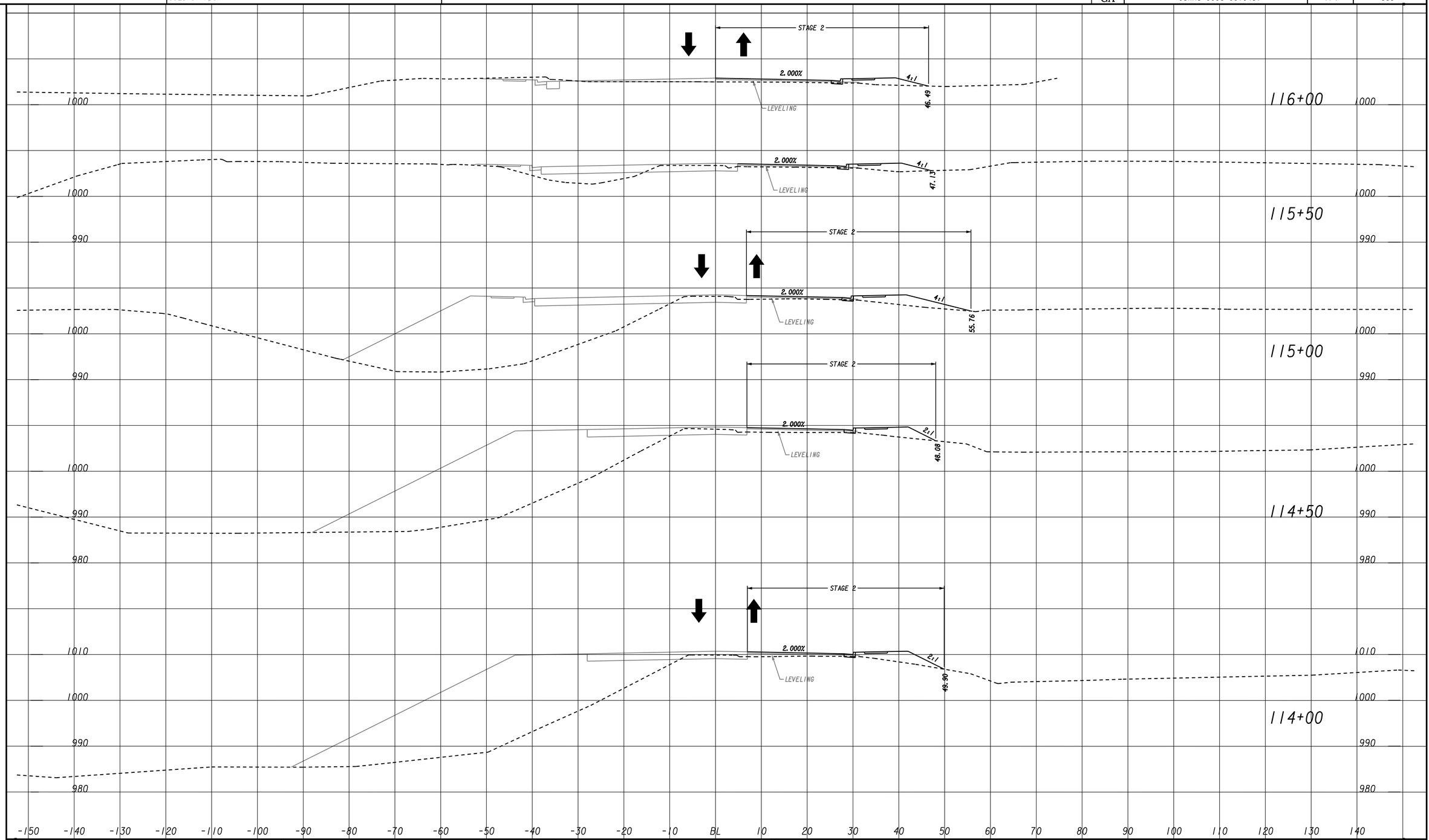
RIDGEWALK PARKWAY

DRAWING No. 19-072

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	174	668

RELEASED FOR CONSTRUCTION 12/02/10



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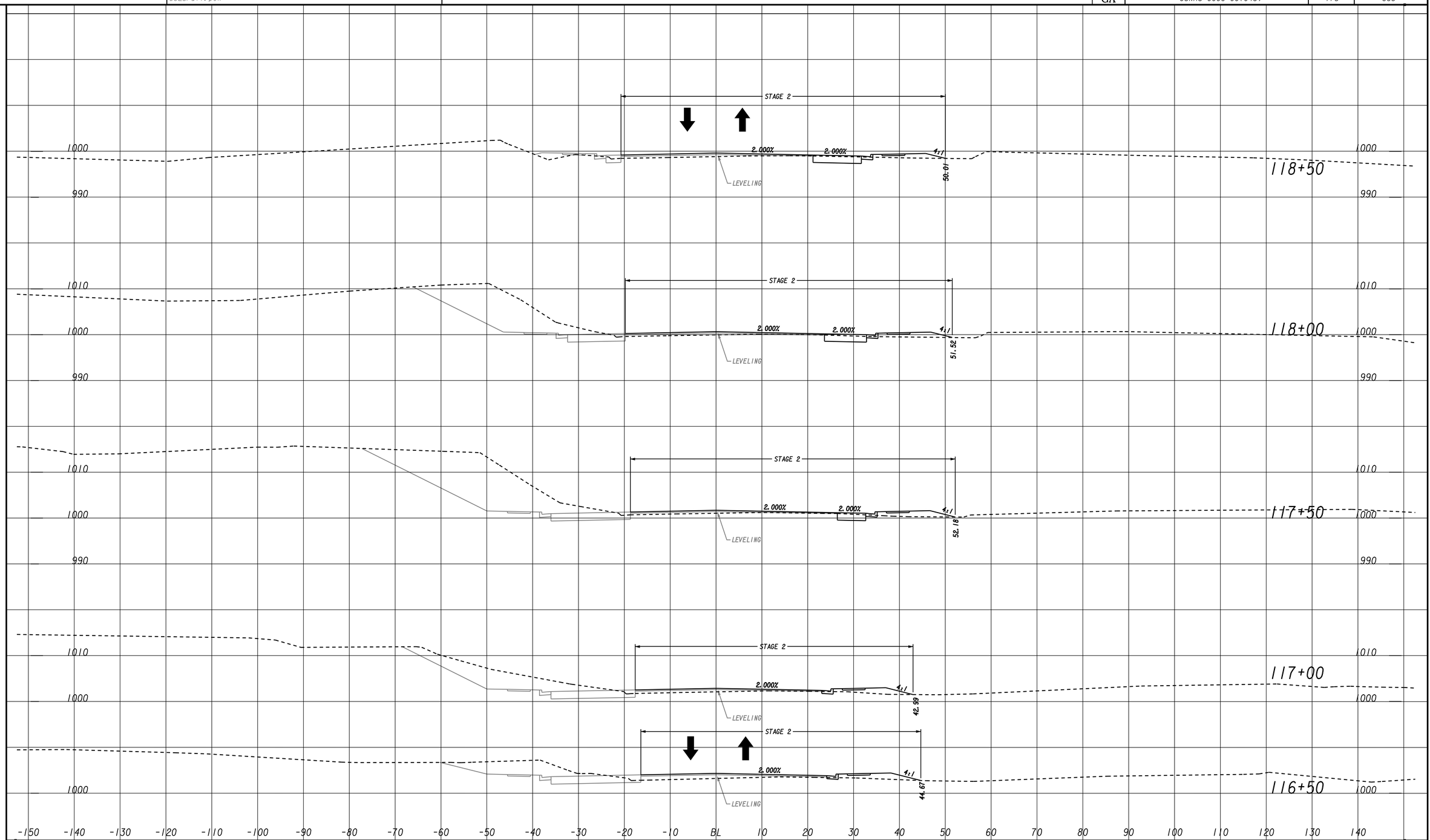
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-073

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

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CROSS SECTIONS CONSTRUCTION STAGING

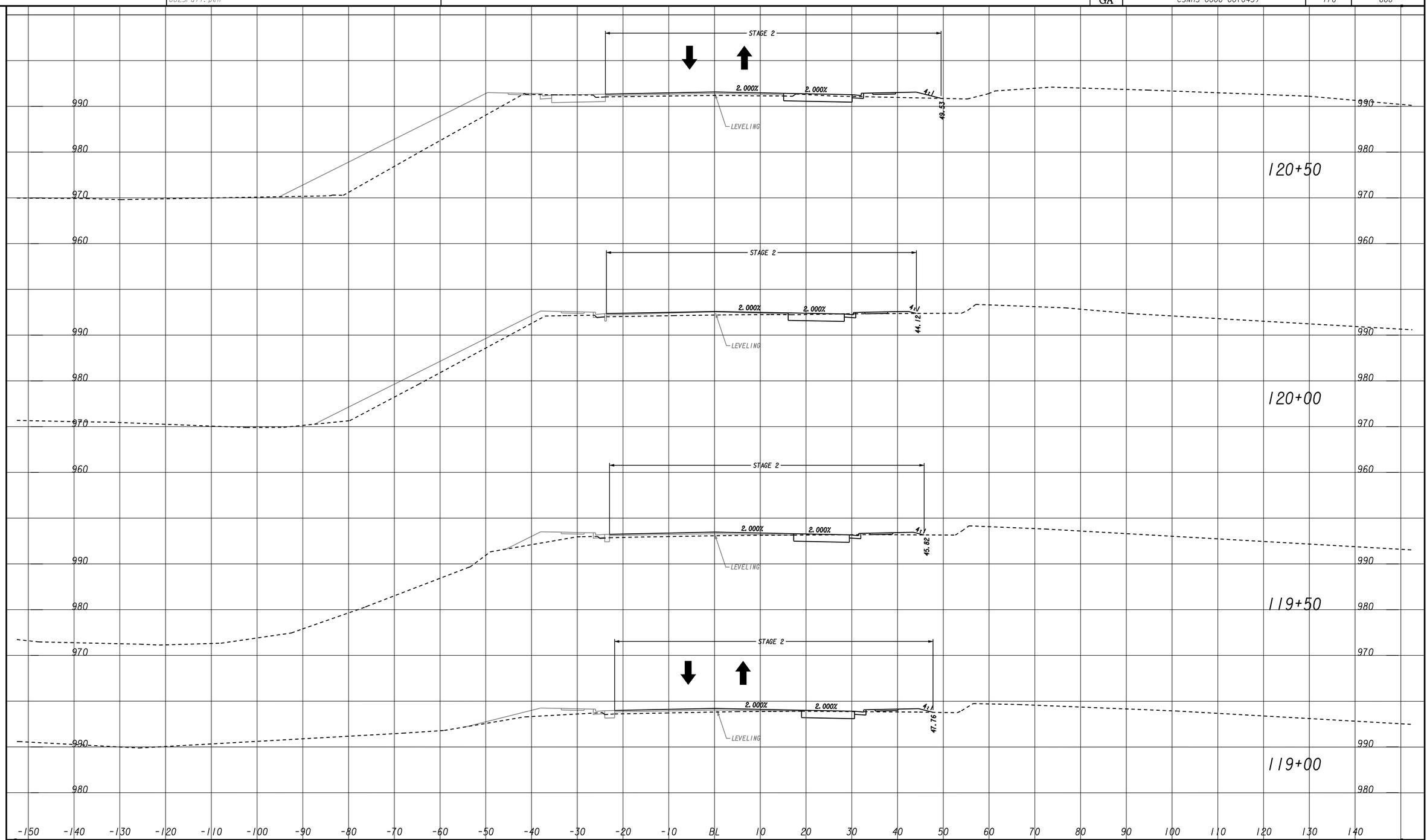
RIDGEWALK PARKWAY

DRAWING No. 19-074

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	176	668

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

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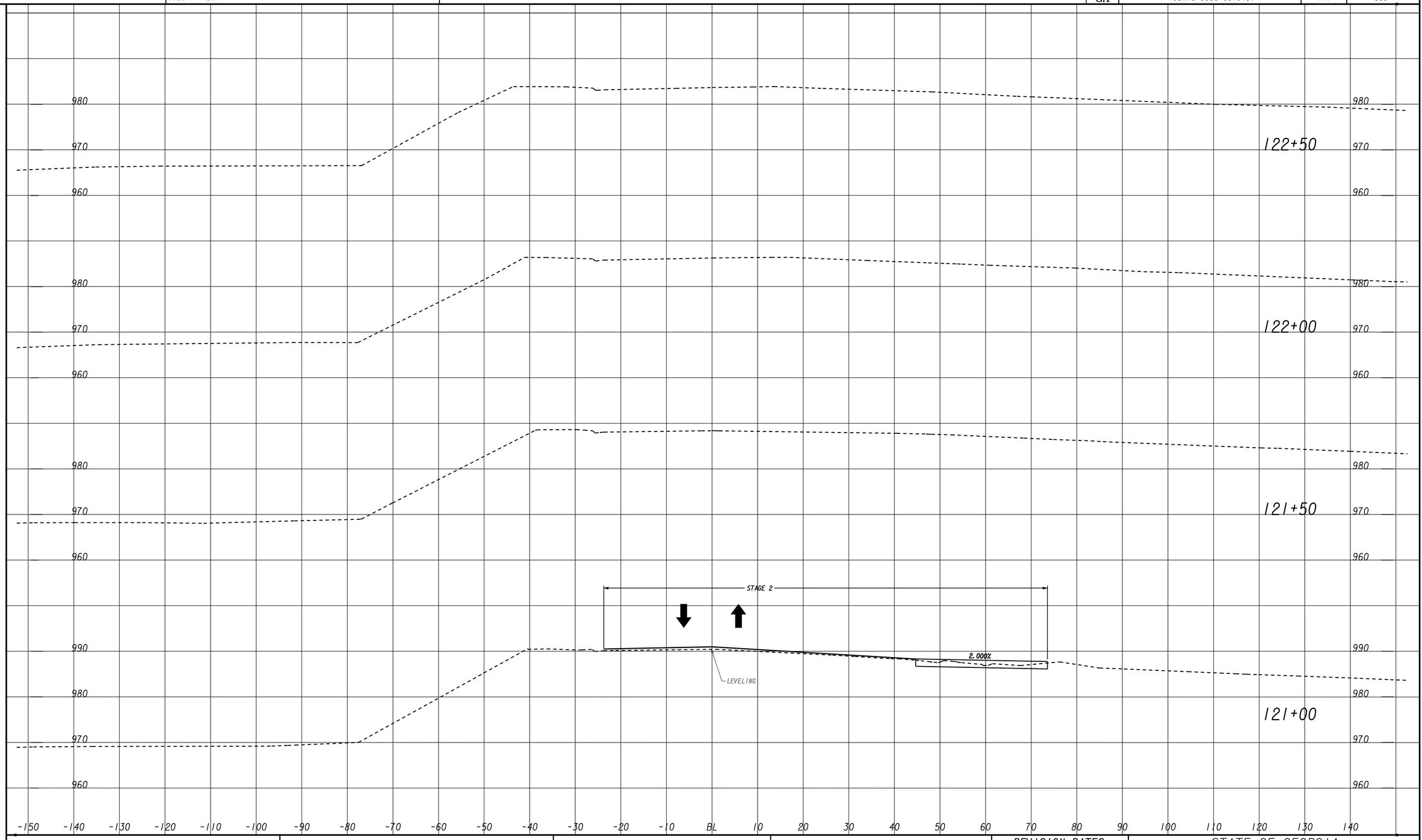
CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-075

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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STAGE 2

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS CONSTRUCTION STAGING

RIDGEWALK PARKWAY

DRAWING No. 19-076

3/1/2007 SUXSEW

06-DEC-2010 11:27	TIME***	006043ST29-3	R:\07400004\006043\DGN\006043ST29-3.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	178	668

RELEASED FOR CONSTRUCTION 12/02/10

STAGE 3
1. SHIFT RIDGEWALK PARKWAY TRAFFIC TO NEW EASTBOUND AND WESTBOUND ALIGNMENT.
2. COMPLETE BRIDGE AND CONCRETE MEDIAN CONSTRUCTION.
3. CONSTRUCT FINAL PAVEMENT SURFACE AND PAVEMENT MARKING.

N

LIMIT OF CONSTRUCTION
RIDGEWALK PKWY
STA. 96+89.12

97+00
S 10°46'23" E
98+00
S 12°11'21" E
99+00
100+00
101+00
S 3°38'30" W
RIDGEWALK PKWY.
CONST. ℄
102+00
14'
MATCH LINE STA. 102+50

LL 781
LL 804
LL 782
LL 803

EXIST R/W
EXIST R/W

LEGEND
- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

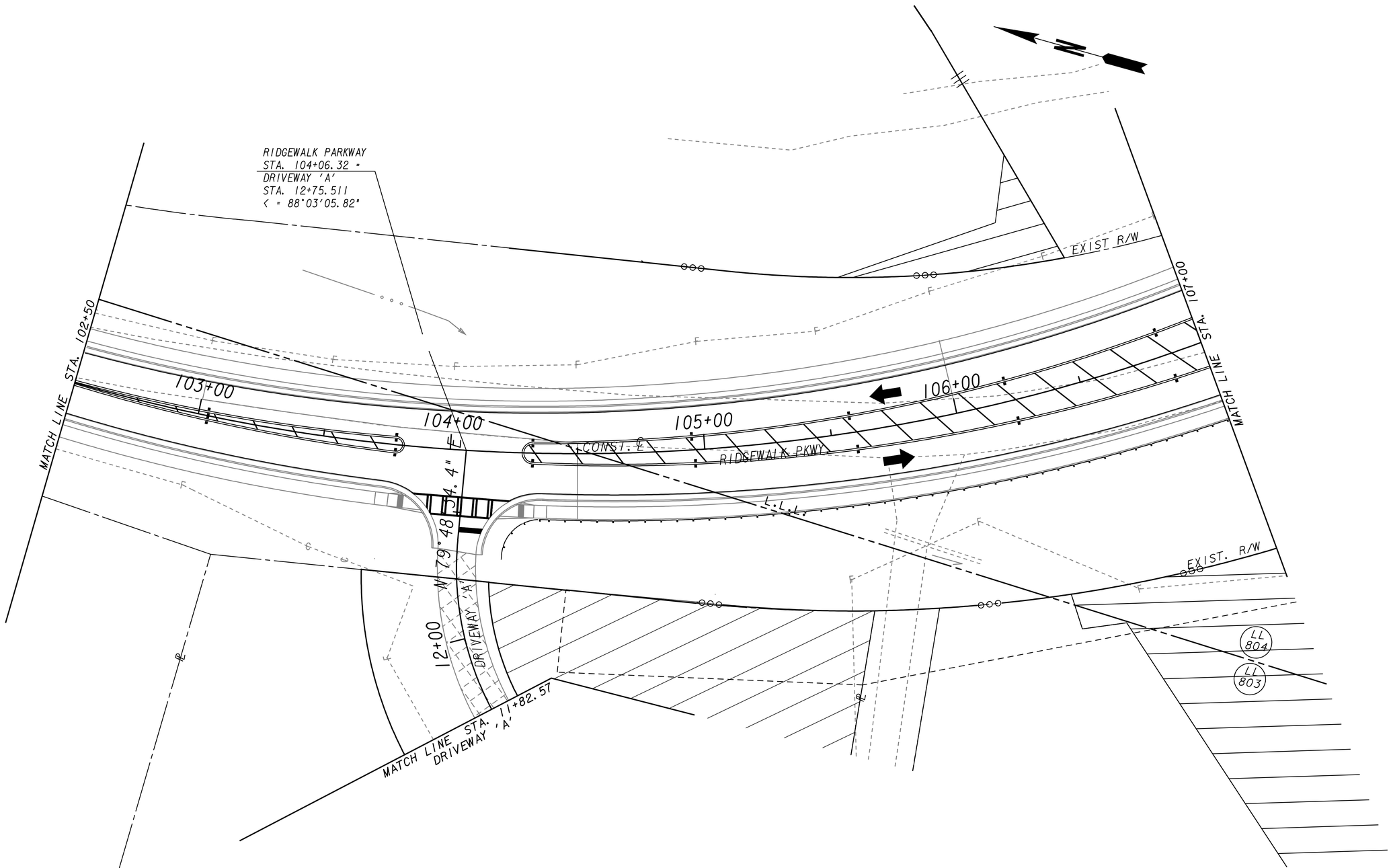
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 19-077

1/5/2009 GPLN

06-DEC-2010 11:28 JParks	TIME$$$ 006043ST30-3 8825Full.pen	R:\07400004\006043\DGN\006043ST30-3.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	179	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 3

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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

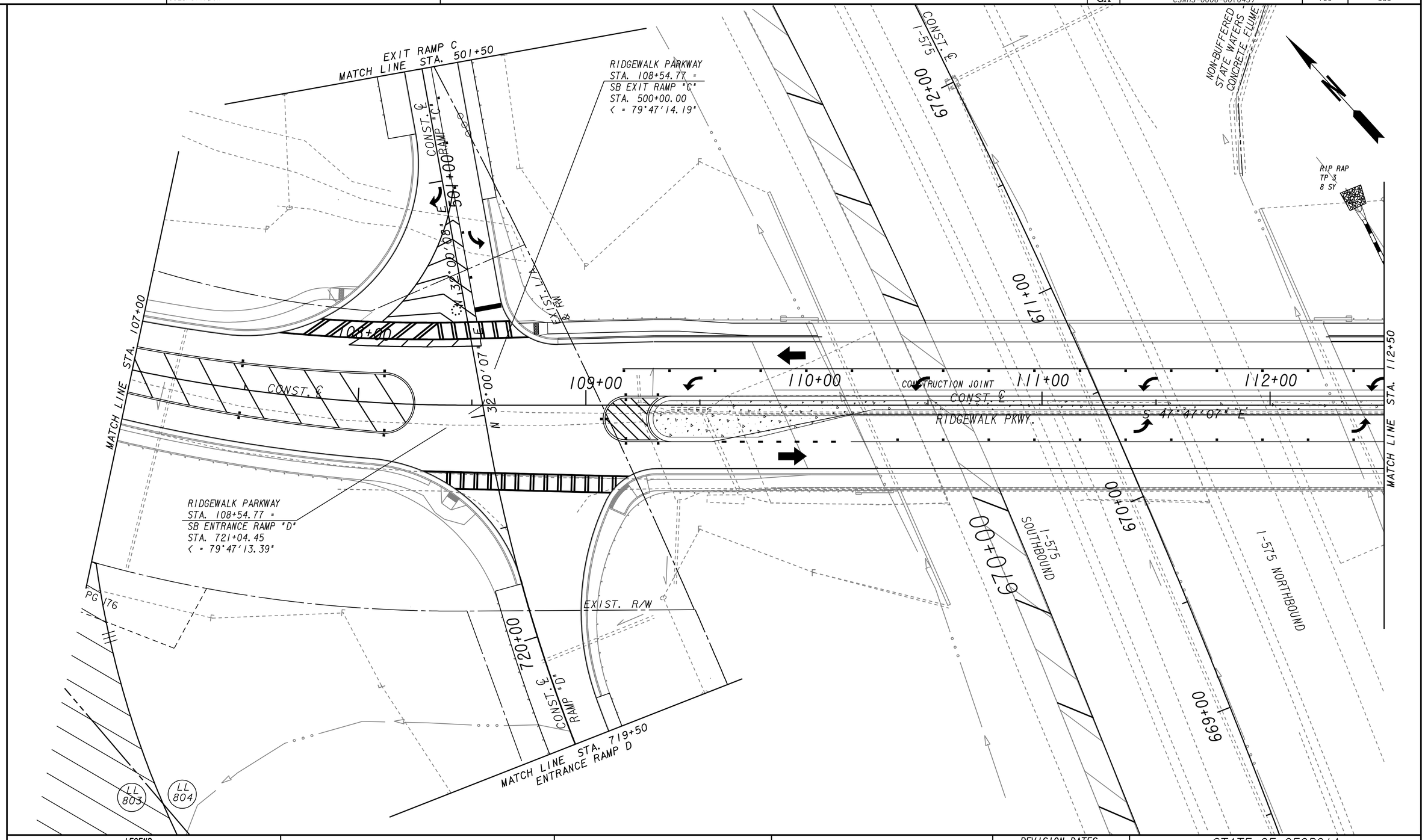
CONSTRUCTION STAGING PLAN

RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 19-078

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 19-079

1/5/2009 GPLN

06-DEC-2010 11:28 JParks | TIME$$$ 006043ST32-3 8825Full.pen | R:\07400004\006043\DGN\006043ST32-3.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	181	668

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

ENTRANCE RAMP B
MATCH LINE STA. 401+50

RAMP "B" ℄ CONST.

401+00

RIP RAP TP 3

END APPROACH SLAB
STA 112+69.10

24'

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00
∠ = 89°48'22.75"

REQD R/W & L/A

ACCESS EASEMENT

LL 804

LL 853

REQD R/W & L/A

EXIST R/W

MATCH LINE STA. 112+50

113+00

114+00

CONST. ℄

S 47°47'07" E

115+00

N 42°01'19" E

116+00

RIDGEWALK PKWY.

MAINTAIN ACCESS TO D/W DURING CONSTRUCTION

117+00

118+00

S 46°36'07" E

MATCH LINE STA. 118+50

319+00

EXIST R/W

REQD L/A

REQD L/A

EXIST. R/W & L/A

CONST. ℄ RAMP "A"

LL 804

LL 853

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65
∠ = 87°58'38.76"

ID R/W & L/A

MATCH LINE STA. 318+00
EXIT RAMP A

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

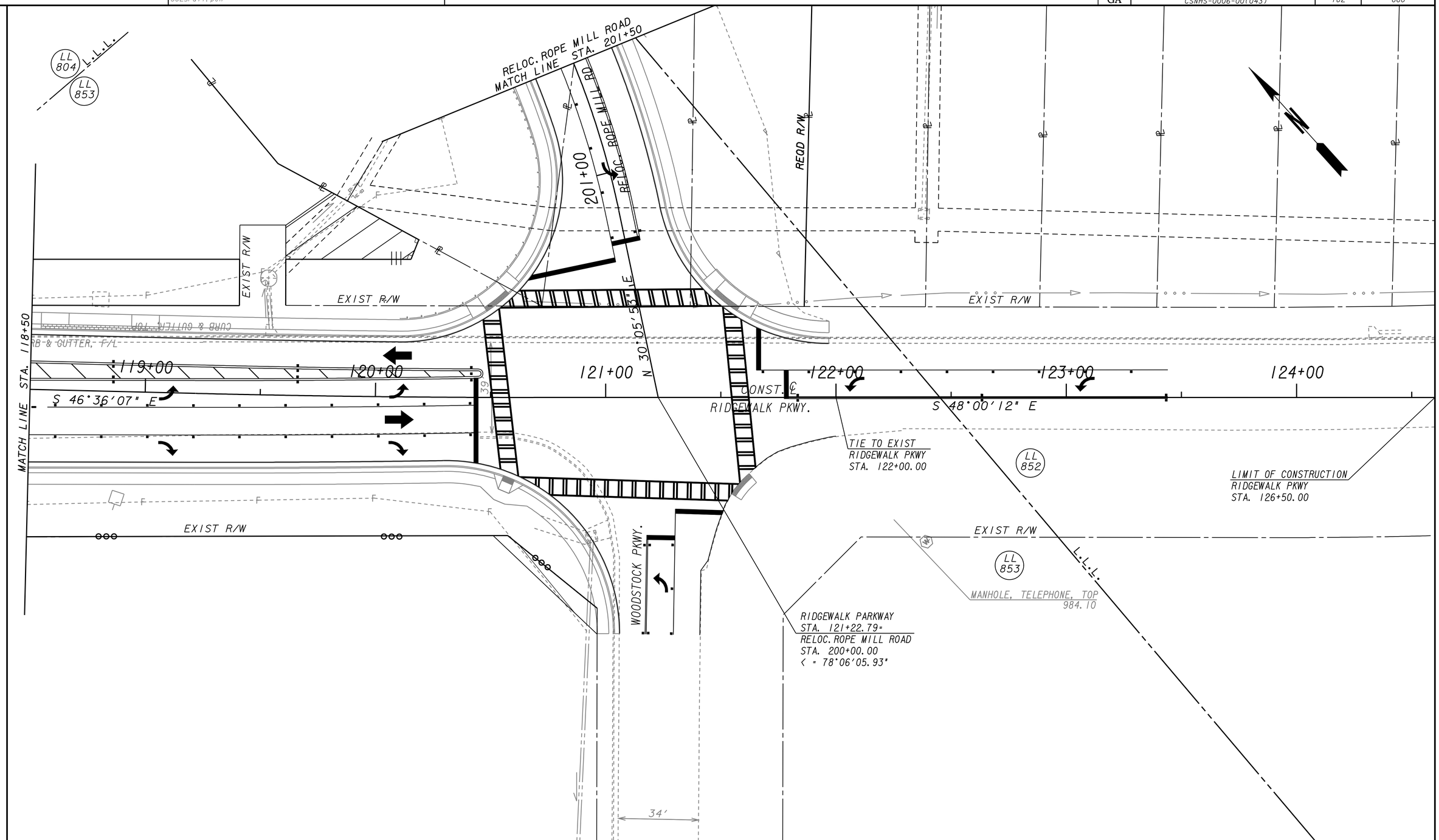
RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 19-080

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	182	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

STAGE 3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION STAGING PLAN

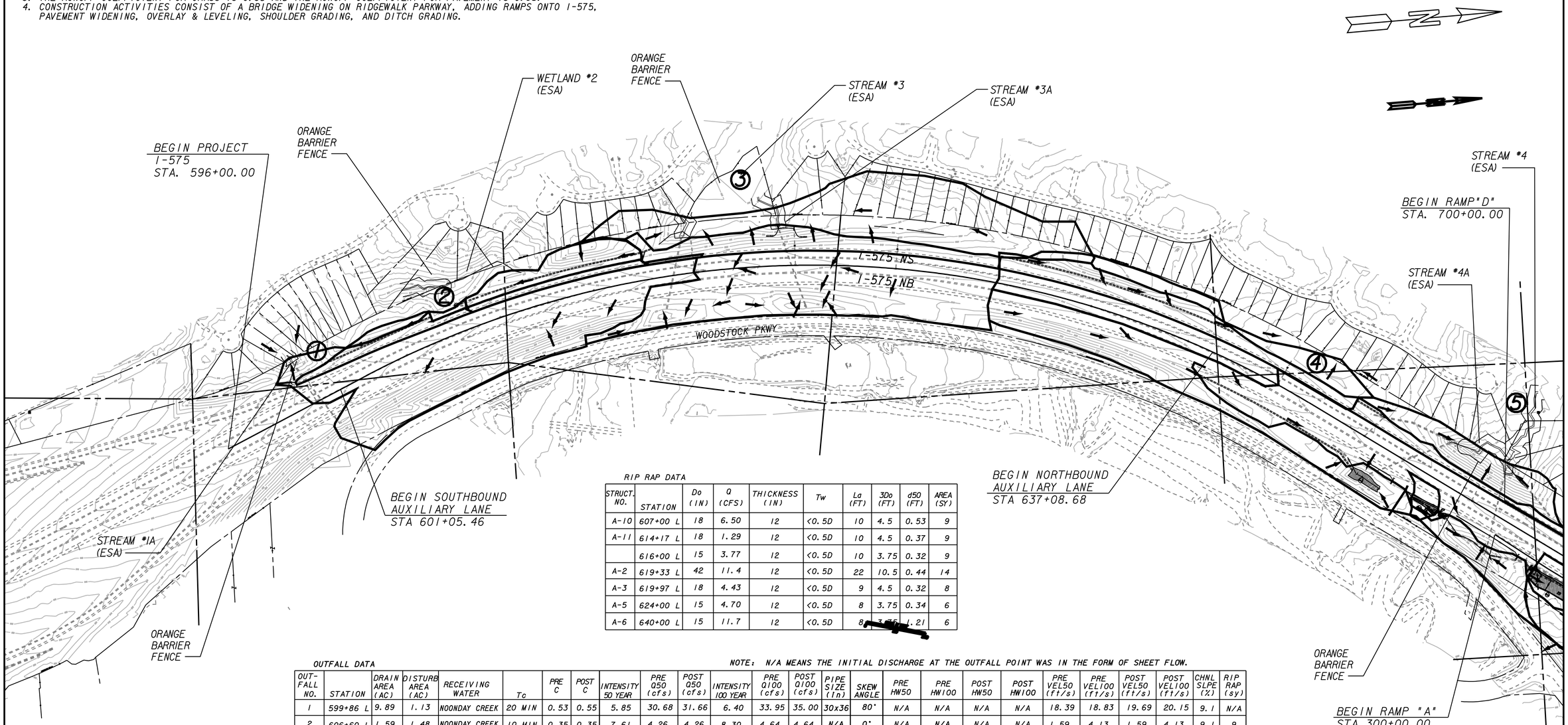
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 19-081

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

NOTE:
1. THE TOTAL PROJECT AREA IS 134 ACRES AND THE EXPECTED DISTURBED AREA IS 39.2 ACRES.
2. THE RECEIVING WATERS FOR THIS PROJECT IS LITTLE RIVER AND NOONDAY CREEK.
3. THE RUNOFF COEFFICIENT FOR GRASS IS 0.35 AND THE RUNOFF COEFFICIENT FOR PAVEMENT IS 0.95.
4. CONSTRUCTION ACTIVITIES CONSIST OF A BRIDGE WIDENING ON RIDGEWALK PARKWAY, ADDING RAMPS ONTO I-575, PAVEMENT WIDENING, OVERLAY & LEVELING, SHOULDER GRADING, AND DITCH GRADING.



RIP RAP DATA

STRUCT. NO.	STATION	Do (IN)	Q (CFS)	THICKNESS (IN)	Tw	La (FT)	3Do (FT)	d50 (FT)	AREA (SY)
A-10	607+00 L	18	6.50	12	<0.5D	10	4.5	0.53	9
A-11	614+17 L	18	1.29	12	<0.5D	10	4.5	0.37	9
	616+00 L	15	3.77	12	<0.5D	10	3.75	0.32	9
A-2	619+33 L	42	11.4	12	<0.5D	22	10.5	0.44	14
A-3	619+97 L	18	4.43	12	<0.5D	9	4.5	0.32	8
A-5	624+00 L	15	4.70	12	<0.5D	8	3.75	0.34	6
A-6	640+00 L	15	11.7	12	<0.5D	8	3.75	1.21	6

OUTFALL DATA

NOTE: N/A MEANS THE INITIAL DISCHARGE AT THE OUTFALL POINT WAS IN THE FORM OF SHEET FLOW.

OUT-FALL NO.	STATION	DRAIN AREA (AC)	DISTURB AREA (AC)	RECEIVING WATER	Tc	PRE C	POST C	INTENSITY 50 YEAR	PRE Q50 (cfs)	POST Q50 (cfs)	INTENSITY 100 YEAR	PRE Q100 (cfs)	POST Q100 (cfs)	PIPE SIZE (in)	SKEW ANGLE	PRE HW50	PRE HW100	POST HW50	POST HW100	PRE VEL50 (ft/s)	PRE VEL100 (ft/s)	POST VEL50 (ft/s)	POST VEL100 (ft/s)	CHNL SLPE (%)	RIP RAP (sy)
1	599+86 L	9.89	1.13	NOONDAY CREEK	20 MIN	0.53	0.55	5.85	30.68	31.66	6.40	33.95	35.00	30x36	80°	N/A	N/A	N/A	N/A	18.39	18.83	19.69	20.15	9.1	N/A
2	606+60 L	1.59	1.48	NOONDAY CREEK	10 MIN	0.35	0.35	7.61	4.26	4.26	8.30	4.64	4.64	N/A	0°	N/A	N/A	N/A	N/A	1.59	4.13	1.59	4.13	9.1	9
3	619+39 L	17.5	2.24	NOONDAY CREEK	30 MIN	0.44	0.46	4.81	37.04	38.72	5.28	40.66	42.50	42	90°	N/A	N/A	N/A	N/A	4.26	4.70	4.40	4.85	2.7	46
4	641+80 L	5.42	3.20	NOONDAY CREEK	15 MIN	0.44	0.45	6.59	15.86	15.91	7.21	17.33	17.39	18	90°	N/A	N/A	N/A	N/A	7.96	8.63	8.00	8.67	3.4	6
5	649+45 L	20.4	5.61	NOONDAY CREEK	10 MIN	0.32	0.34	7.61	49.25	53.23	8.30	53.81	58.15	N/A	90°	949.45	949.53	949.55	949.65	8.21	8.97	8.87	9.69	23.0	N/A

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE AREA MAP
SHEET 1 OF 2

DRAWING No. 21-001

1/5/2009 GPLN

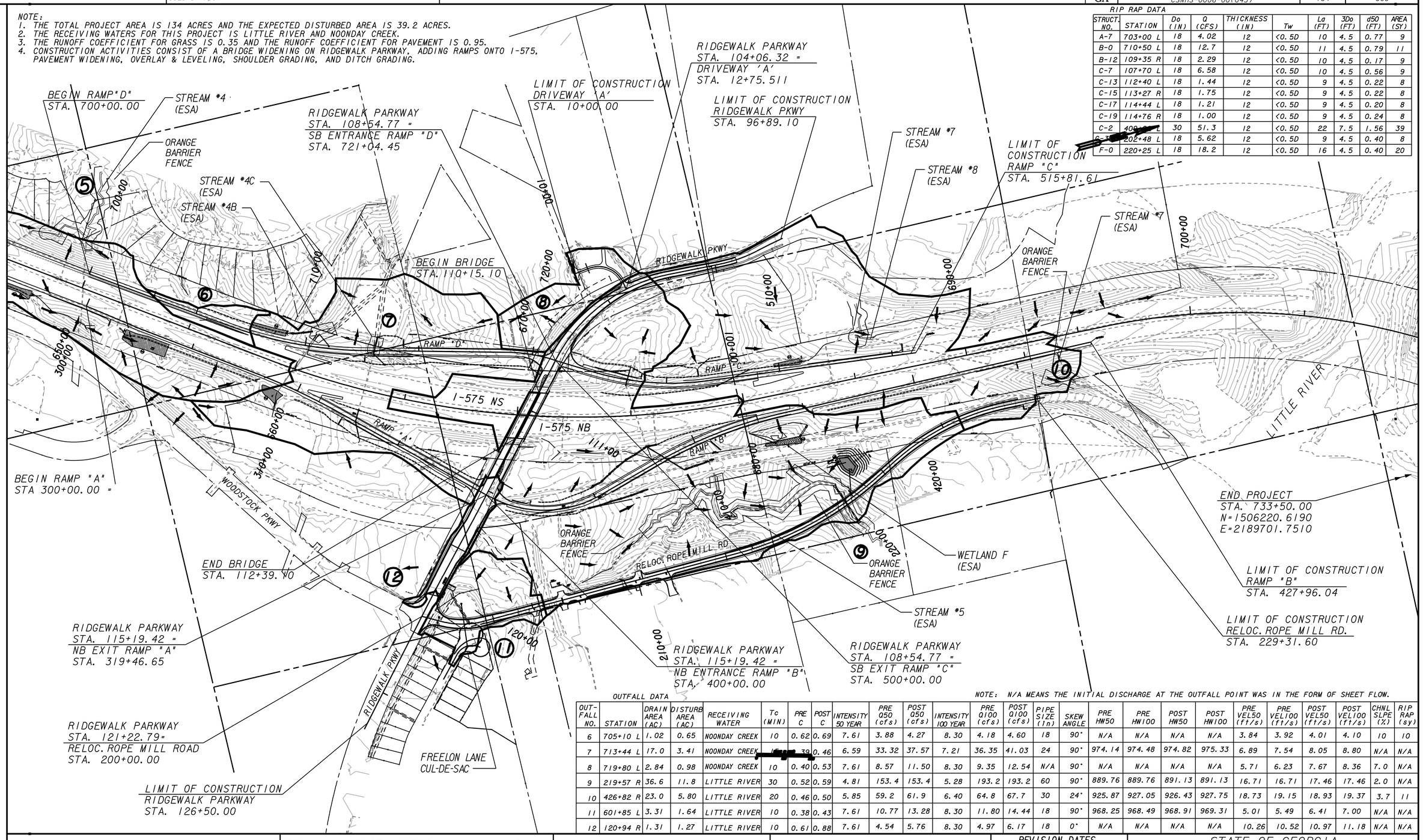
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	184	668

RELEASED FOR CONSTRUCTION 12/02/10

NOTE:
1. THE TOTAL PROJECT AREA IS 134 ACRES AND THE EXPECTED DISTURBED AREA IS 39.2 ACRES.
2. THE RECEIVING WATERS FOR THIS PROJECT IS LITTLE RIVER AND NOONDAY CREEK.
3. THE RUNOFF COEFFICIENT FOR GRASS IS 0.35 AND THE RUNOFF COEFFICIENT FOR PAVEMENT IS 0.95.
4. CONSTRUCTION ACTIVITIES CONSIST OF A BRIDGE WIDENING ON RIDGEWALK PARKWAY, ADDING RAMPS ONTO I-575, PAVEMENT WIDENING, OVERLAY & LEVELING, SHOULDER GRADING, AND DITCH GRADING.

RIP RAP DATA

STRUCT. NO.	STATION	Do (IN)	Q (CFS)	THICKNESS (IN)	Tw	La (FT)	3Do (FT)	d50 (FT)	AREA (SY)
A-7	703+00 L	18	4.02	12	<0.5D	10	4.5	0.77	9
B-0	710+50 L	18	12.7	12	<0.5D	11	4.5	0.79	11
B-12	109+35 R	18	2.29	12	<0.5D	10	4.5	0.17	9
C-7	107+70 L	18	6.58	12	<0.5D	10	4.5	0.56	9
C-13	112+40 L	18	1.44	12	<0.5D	9	4.5	0.22	8
C-15	113+27 R	18	1.75	12	<0.5D	9	4.5	0.22	8
C-17	114+44 L	18	1.21	12	<0.5D	9	4.5	0.20	8
C-19	114+76 R	18	1.00	12	<0.5D	9	4.5	0.24	8
C-2	409+[illegible] L	30	51.3	12	<0.5D	22	7.5	1.56	39
C-3	202+48 L	18	5.62	12	<0.5D	9	4.5	0.40	8
F-0	220+25 L	18	18.2	12	<0.5D	16	4.5	0.40	20



OUTFALL DATA

NOTE: N/A MEANS THE INITIAL DISCHARGE AT THE OUTFALL POINT WAS IN THE FORM OF SHEET FLOW.

OUT-FALL NO.	STATION	DRAIN AREA (AC)	DISTURB AREA (AC)	RECEIVING WATER	Tc (MIN)	PRE C	POST C	INTENSITY 50 YEAR	PRE Q50 (cfs)	POST Q50 (cfs)	INTENSITY 100 YEAR	PRE Q100 (cfs)	POST Q100 (cfs)	PIPE SIZE (in)	SKEW ANGLE	PRE HW50	PRE HW100	POST HW50	POST HW100	PRE VEL50 (ft/s)	PRE VEL100 (ft/s)	POST VEL50 (ft/s)	POST VEL100 (ft/s)	CHNL SLPE (%)	RIP RAP (sy)
6	705+10 L	1.02	0.65	NOONDAY CREEK	10	0.62	0.69	7.61	3.88	4.27	8.30	4.18	4.60	18	90°	N/A	N/A	N/A	N/A	3.84	3.92	4.01	4.10	10	10
7	713+44 L	17.0	3.41	NOONDAY CREEK	[illegible]	39	0.46	6.59	33.32	37.57	7.21	36.35	41.03	24	90°	974.14	974.48	974.82	975.33	6.89	7.54	8.05	8.80	N/A	N/A
8	719+80 L	2.84	0.98	NOONDAY CREEK	10	0.40	0.53	7.61	8.57	11.50	8.30	9.35	12.54	N/A	90°	N/A	N/A	N/A	N/A	5.71	6.23	7.67	8.36	7.0	N/A
9	219+57 R	36.6	11.8	LITTLE RIVER	30	0.52	0.59	4.81	153.4	153.4	5.28	193.2	193.2	60	90°	889.76	889.76	891.13	891.13	16.71	16.71	17.46	17.46	2.0	N/A
10	426+82 R	23.0	5.80	LITTLE RIVER	20	0.46	0.50	5.85	59.2	61.9	6.40	64.8	67.7	30	24°	925.87	927.05	926.43	927.75	18.73	19.15	18.93	19.37	3.7	11
11	601+85 L	3.31	1.64	LITTLE RIVER	10	0.38	0.43	7.61	10.77	13.28	8.30	11.80	14.44	18	90°	968.25	968.49	968.91	969.31	5.01	5.49	6.41	7.00	N/A	N/A
12	120+94 R	1.31	1.27	LITTLE RIVER	10	0.61	0.88	7.61	4.54	5.76	8.30	4.97	6.17	18	0°	N/A	N/A	N/A	N/A	10.26	10.52	10.97	11.18	N/A	N/A

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

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

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SCALE IN FEET
0 200 400 800

REVISION DATES

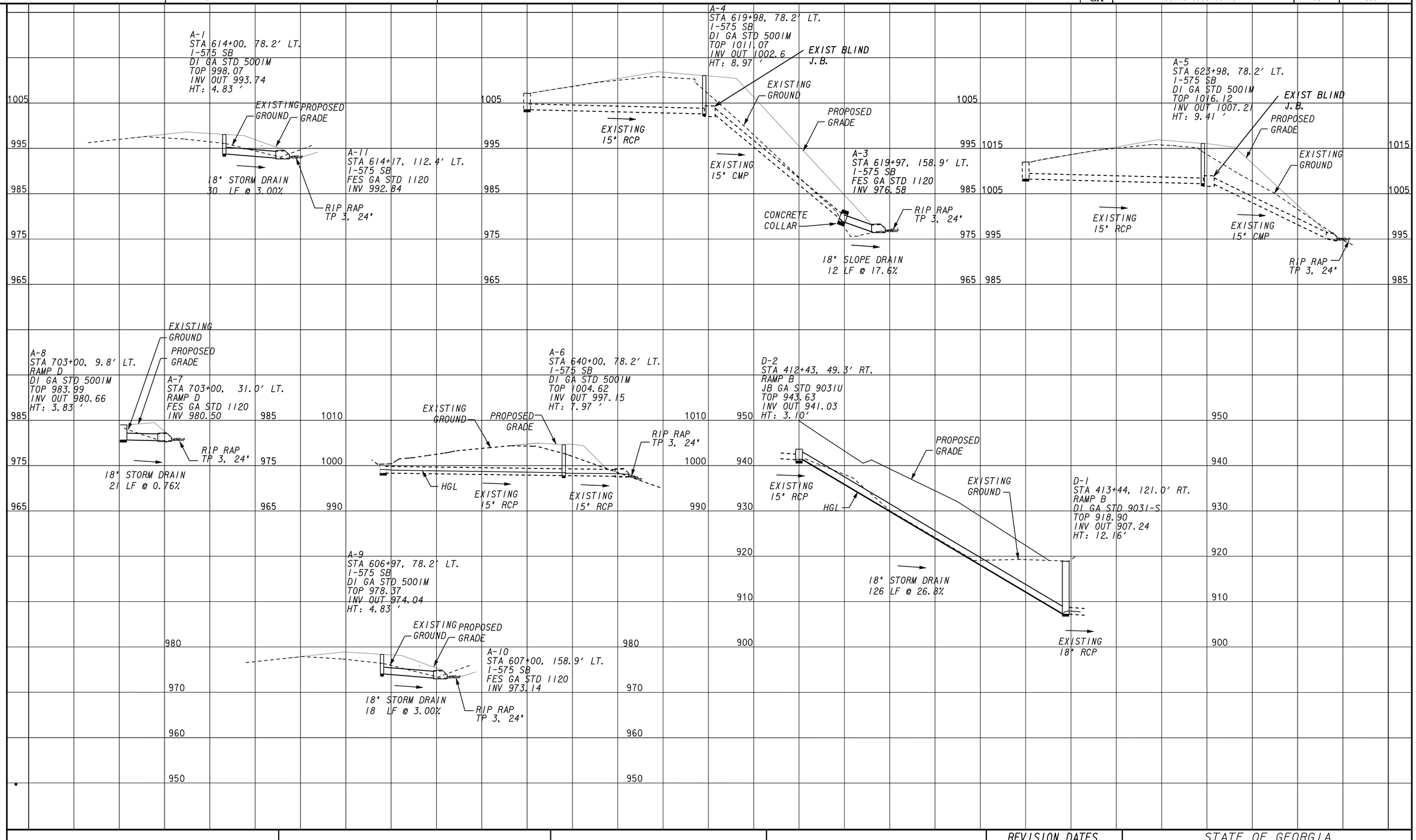
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE AREA MAP
SHEET 2 OF 2

DRAWING No. 21-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

HORZ. 1" = 20'
VERT. 1" = 10'

REVISION DATES

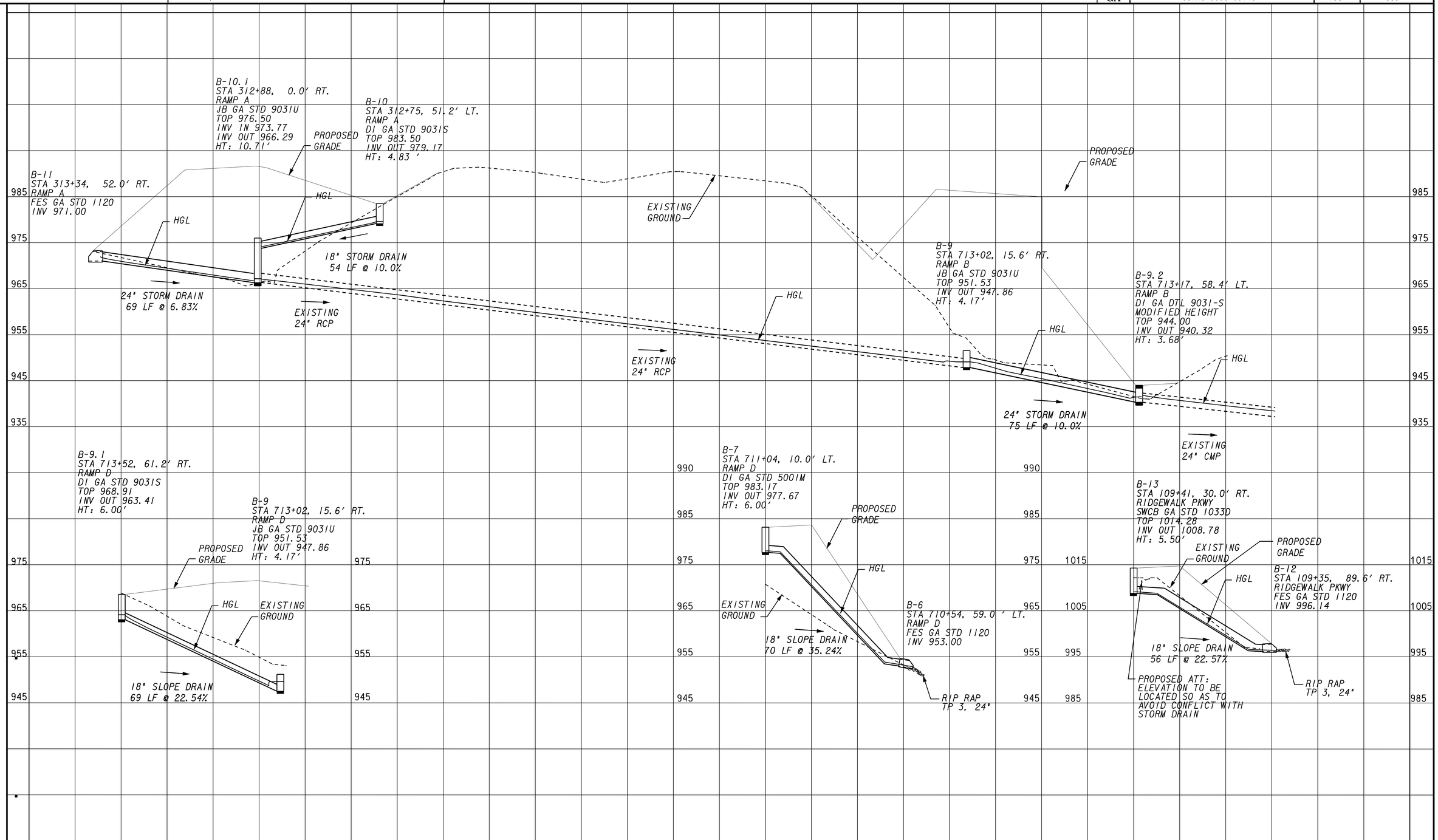
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE PROFILES
RIDGEWALK PARKWAY
RELOC. ROPE MILL ROAD

DRAWING No. 22-001

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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HORZ. 1" = 20'
VERT. 1" = 10'

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE PROFILES
RIDGEWALK PARKWAY
RELOC. ROPE MILL ROAD

DRAWING No. 22-002

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10

C-1
STA 410+22, 97.0' RT.
RAMP B
FES GA STD 1120
INV 926.67
EXISTING GROUND
PROPOSED GRADE
HGL
EXISTING HEADWALL
EXISTING 30" RCP

C-11
STA 108+89, 28.9' LT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1013.98
INV OUT 1009.65
HT: 4.83'
HGL
PROPOSED GRADE
EXISTING GROUND
18" STORM DRAIN
100 LF @ 2.09%

C-8
STA 107+85, 37.9' LT.
RIDGEWALK PKWY
DI GA STD 1019A
TYPE E
TOP 1013.06
INV OUT 1007.56
HT: 6.00'

C-10
STA 106+28, 22.3' LT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1014.52
INV OUT 1010.19
HT: 4.83'
HGL
PROPOSED GRADE
18" STORM DRAIN
91 LF @ 1.23%
EXISTING GROUND

C-9
STA 107+21, 24.6' LT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1013.40
INV OUT 1009.07
HT: 4.83'
18" STORM DRAIN
63 LF @ 2.40%

C-8
STA 107+85, 37.9' LT.
RIDGEWALK PKWY
DI GA STD 1019A
TYPE E
TOP 1013.06
INV OUT 1007.56
HT: 6.00'
PROPOSED COW 12" WATER LINE. INSTALLATION & ELEVATION TO BE COORD. IN FIELD TO AVOID CONFLICT W/ STORM DRAIN

C-7
STA 107+70, 85.6' LT.
RIDGEWALK PKWY
FES GA STD 1120
INV 1005.10
18" STORM DRAIN
46 LF @ 5.35%
RIP RAP TP 3, 24"

C-12
STA 112+67, 30.0' LT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1012.84
INV OUT 1008.51
HT: 4.83'
PROPOSED GRADE
HGL
EXISTING GROUND
18" SLOPE DRAIN
62 LF @ 28.08%

C-13
STA 112+40, 87.4' LT.
RIDGEWALK PKWY
FES GA STD 1120
INV 991.10
RIP RAP TP 3, 24"

C-14
STA 113+25, 30.0' RT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1011.91
INV OUT 1006.41
HT: 6.00'
PROPOSED GRADE
EXISTING GROUND
HGL
RIP RAP TP 3, 24"
18" SLOPE DRAIN
27 LF @ 12.63%
PROPOSED ATT: ELEVATION TO BE LOCATED SO AS TO AVOID CONFLICT WITH STORM DRAIN

C-15
STA 113+27, 60.0' RT.
RIDGEWALK PKWY
FES GA STD 1120
INV 1003.00

C-16
STA 114+40, 30.0' LT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1009.45
INV OUT 1003.95
HT: 6.00'
PROPOSED AGL GAS LINE. INSTALLATION & ELEVATION TO BE COORD. IN FIELD TO AVOID CONFLICT W/ STORM DRAIN
PROPOSED COW 12" WATER LINE. INSTALLATION & ELEVATION TO BE COORD. IN FIELD TO AVOID CONFLICT W/ STORM DRAIN
HGL
PROPOSED GRADE
EXISTING GROUND
18" SLOPE DRAIN
59 LF @ 29.66%
RIP RAP TP 3, 24"

C-17
STA 114+44, 88.8' LT.
RIDGEWALK PKWY
FES GA STD 1120
INV 986.45

C-18
STA 114+50, 30.0' RT.
RIDGEWALK PKWY
SWCB GA STD 1033D
TOP 1008.87
INV OUT 1004.54
HT: 4.83'
HGL
PROPOSED GRADE
18" STORM DRAIN
32 LF @ 3.41%
PROPOSED ATT: ELEVATION TO BE LOCATED SO AS TO AVOID CONFLICT WITH STORM DRAIN

C-19
STA 114+76, 61.0' RT.
RIDGEWALK PKWY
FES GA STD 1120
INV 1003.45
RIP RAP TP 3, 24"

C-6
STA 503+31, 55.0' LT.
RAMP C
FES GA STD 1120
INV 978.18
PROPOSED GRADE
HGL
C-5
STA 503+25, 25.0' RT.
RAMP C
JB GA STD 9031U
TOP 970.77
INV OUT 967.52
HT: 3.75'
24" STORM DRAIN
81 LF @ 13.2%
EXISTING 24" RCP

C-4
STA 503+45, 67.0' RT.
RAMP C
DI GA DETAIL D-4
TOP 975.41
INV OUT 964.41
HT: 11.5'
HGL
EXISTING 24" RCP

EXISTING GROUND
C-3
STA 408+03, 75.0' LT.
RAMP B
DI GA STD 9031S
TOP 953.17
INV IN 948.17
INV OUT 947.67
HT: 6.00'
PROPOSED GRADE
HGL
30" STORM DRAIN
185 LF @ 3.35%

C-2
STA 409+02, 84.0' LT.
RAMP B
FES GA STD 1120
INV 941.48
RIP RAP TP 3, 24"

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HORZ. 1" = 20'
VERT. 1" = 10'

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

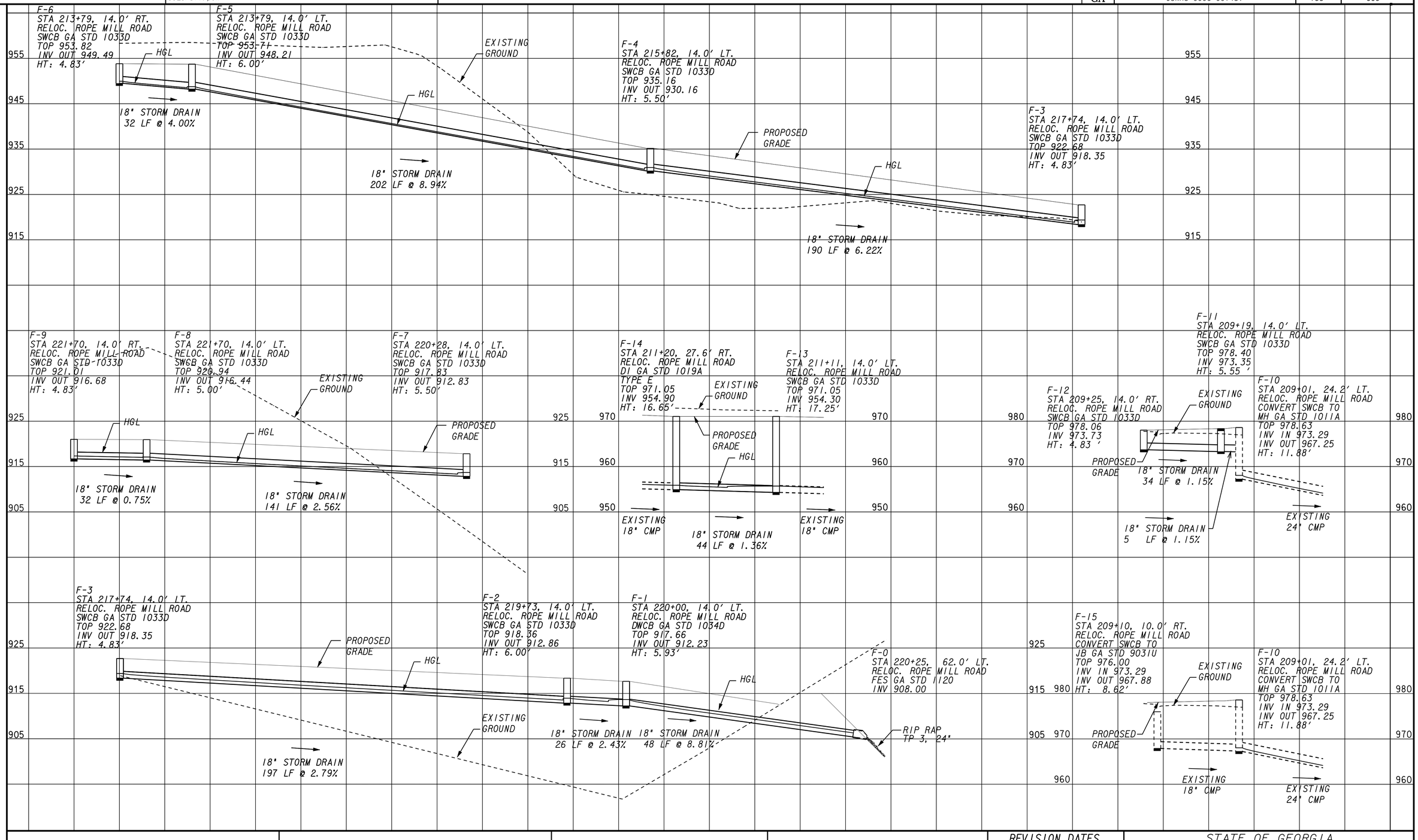
DRAINAGE PROFILES RIDGEWALK PARKWAY RELOC. ROPE MILL ROAD

DRAWING No. 22-003

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	188	668

RELEASED FOR CONSTRUCTION 12/02/10



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HORZ. 1" = 20'
VERT. 1" = 10'

REVISION DATES

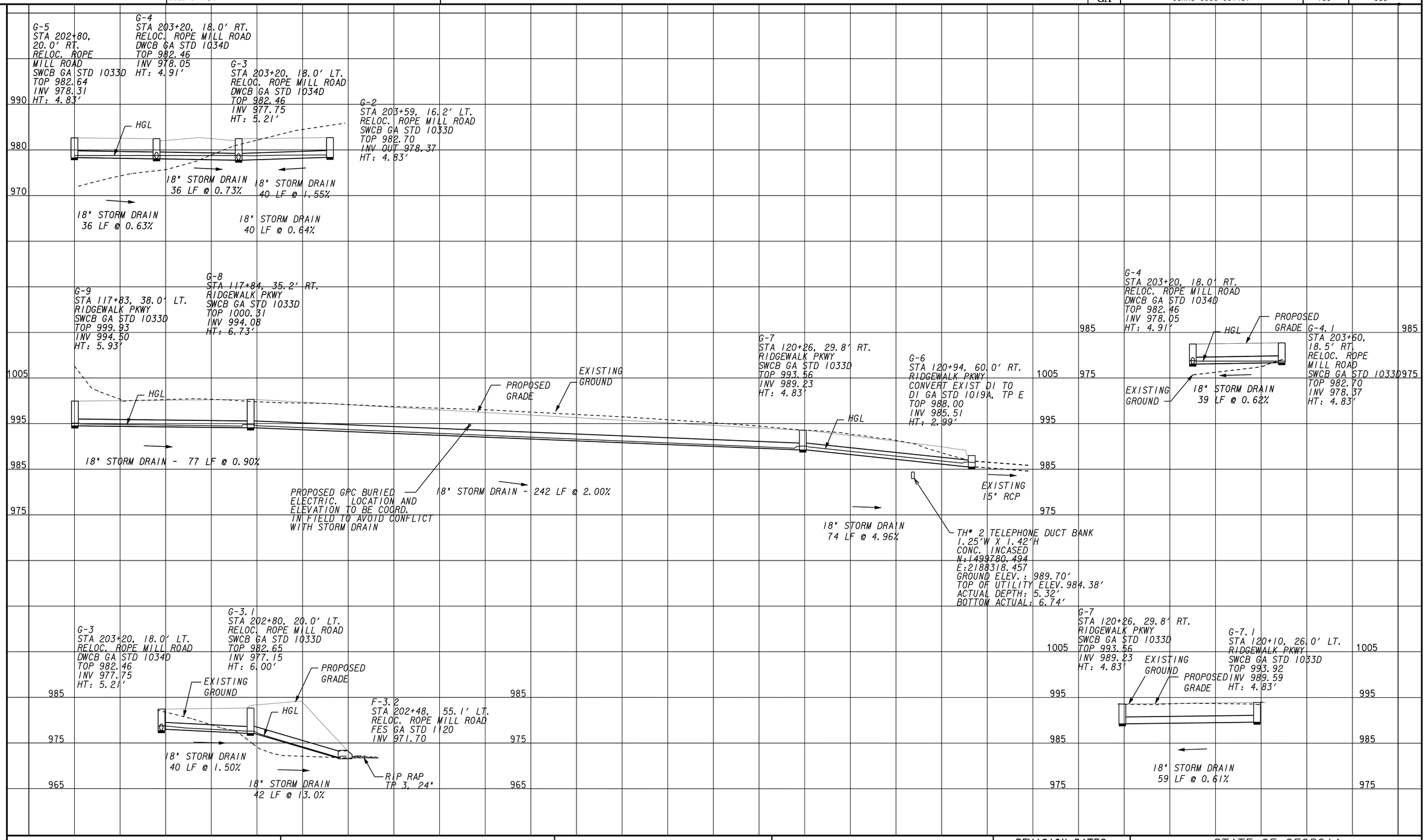
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE PROFILES
RIDGEWALK PARKWAY
RELOC. ROPE MILL ROAD

DRAWING No. 22-004

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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HORZ. 1" = 20'
VERT. 1" = 10'

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

DRAINAGE PROFILES RIDGEWALK PARKWAY RELOC. ROPE MILL ROAD

DRAWING No. 22-005

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10

B-0
STA 710+27, 56.5' LT.
RAMP D
FES GA STD 1120
INV 953.00

18" STORM DRAIN
24 LF @ 1.67%

CONCRETE COLLAR

RIP RAP
TP 3, 24"

EXISTING
18" RCP

B-5
STA 660+00, 0' RT.
RIDGEWALK PKWY
EXISTING DI
INV 983.34

BLIND JB

EXISTING
15" RCP

B-3
STA 710+52, 55.5' LT.
RAMP D
FES GA STD 1120
INV 953.00

CONCRETE COLLAR

EXISTING
15" CMP

18" STORM DRAIN
26 LF @ 1.54%

RIP RAP
TP 3, 24"

BL

A-2
STA 619+33, 165.6' LT.
I-575 SB
FES GA STD 1120
INV 968.08

CONCRETE COLLAR

RIP RAP
TP 3, 24"

42" STORM DRAIN
11 LF @ 2.50%

EXISTING
42" RCP

BL

SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

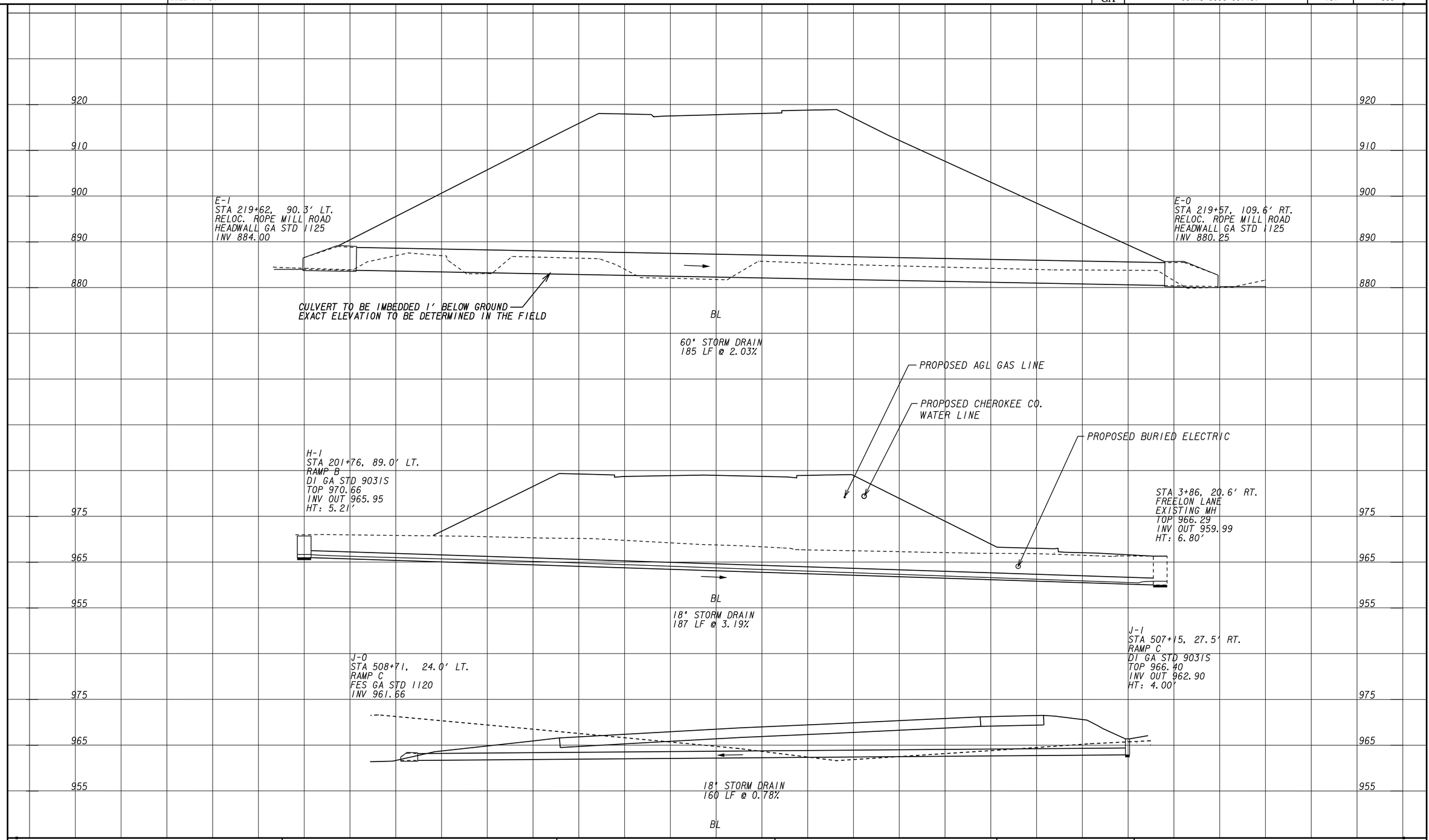
DRAINAGE PROFILES
RIDGEWALK PARKWAY
RELOC. ROPE MILL ROAD

DRAWING No. 22-006

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	191	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

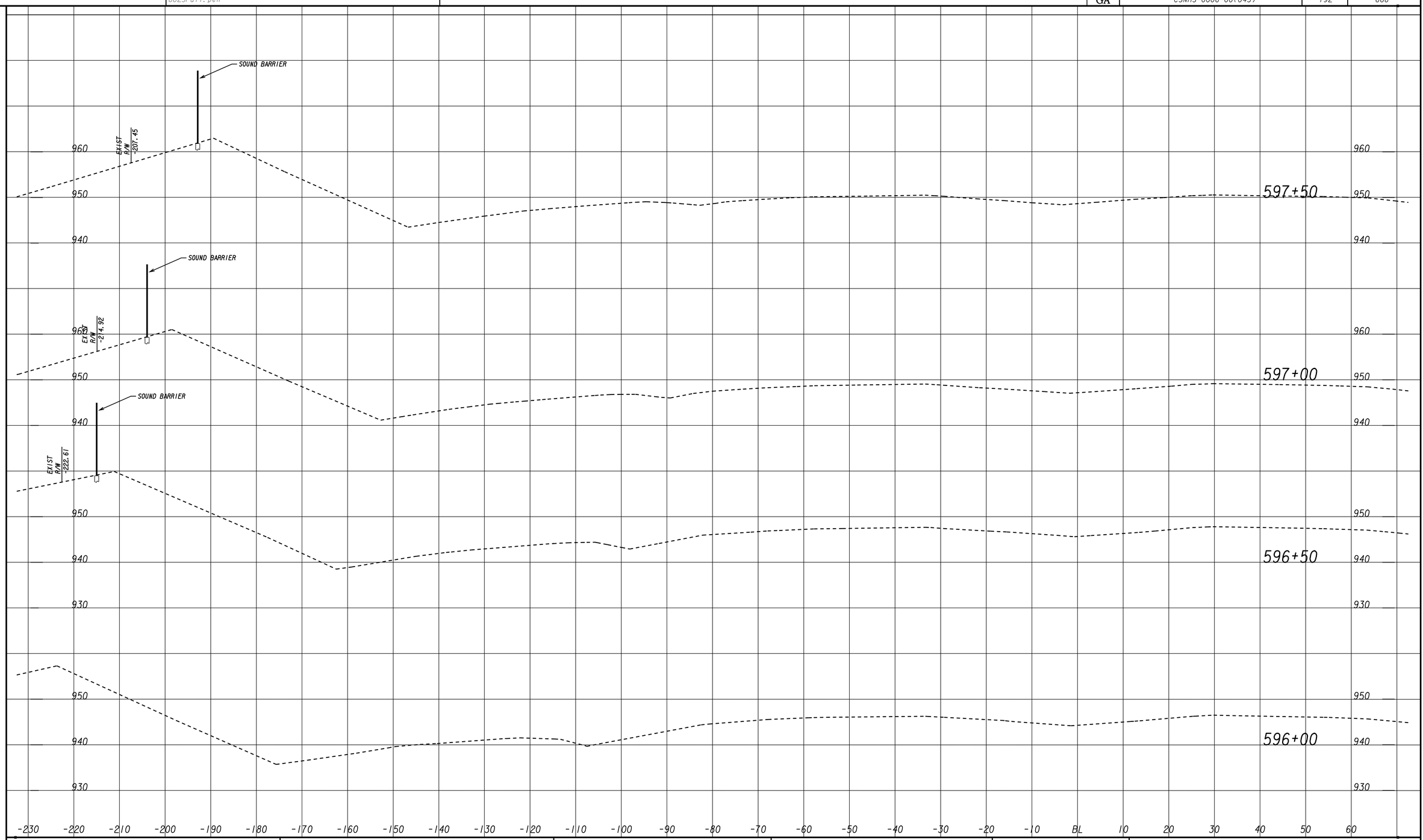
DRAINAGE PROFILES
RIDGEWALK PARKWAY
RELOC. ROPE MILL ROAD

DRAWING No. 22-007

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	192	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

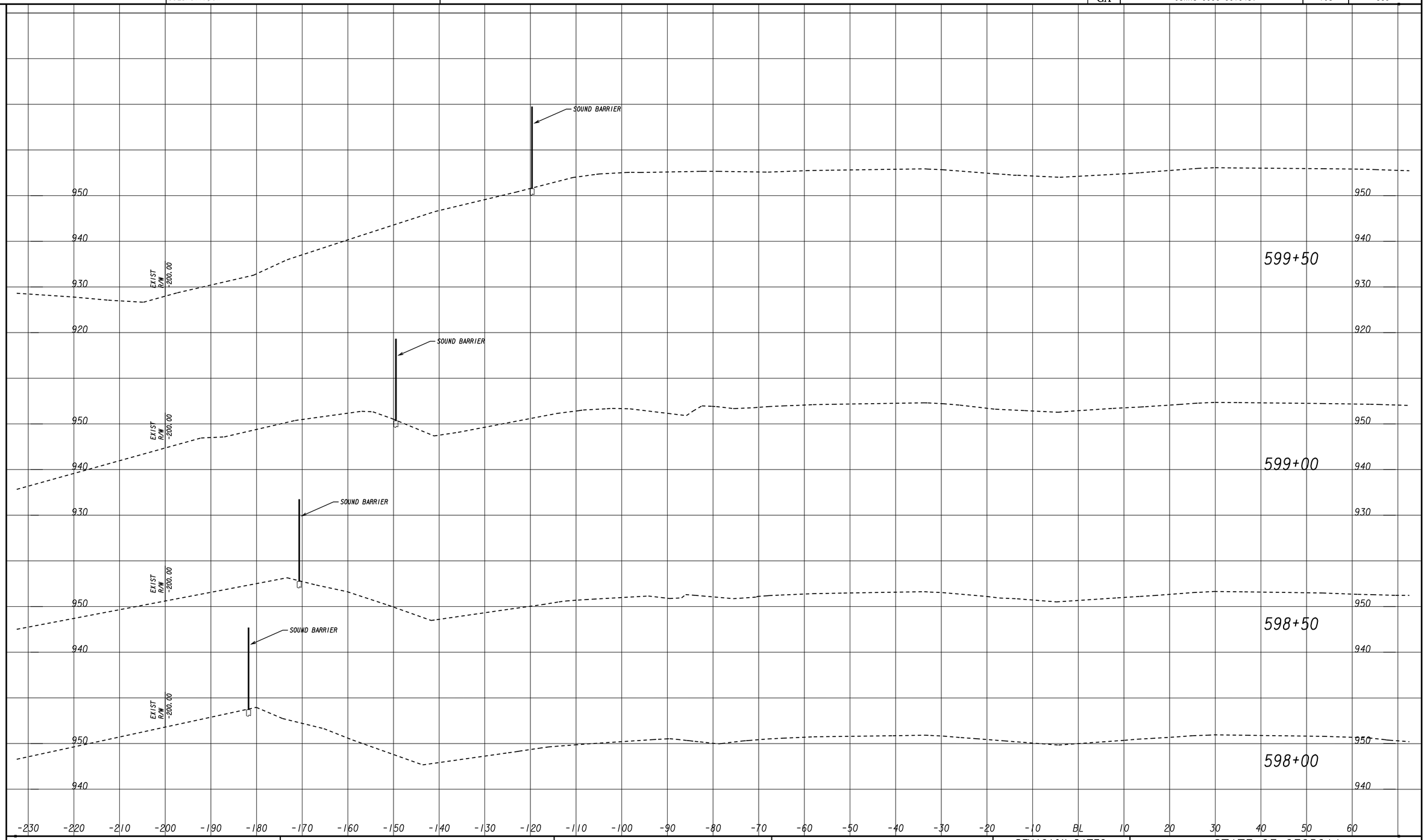
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-001

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

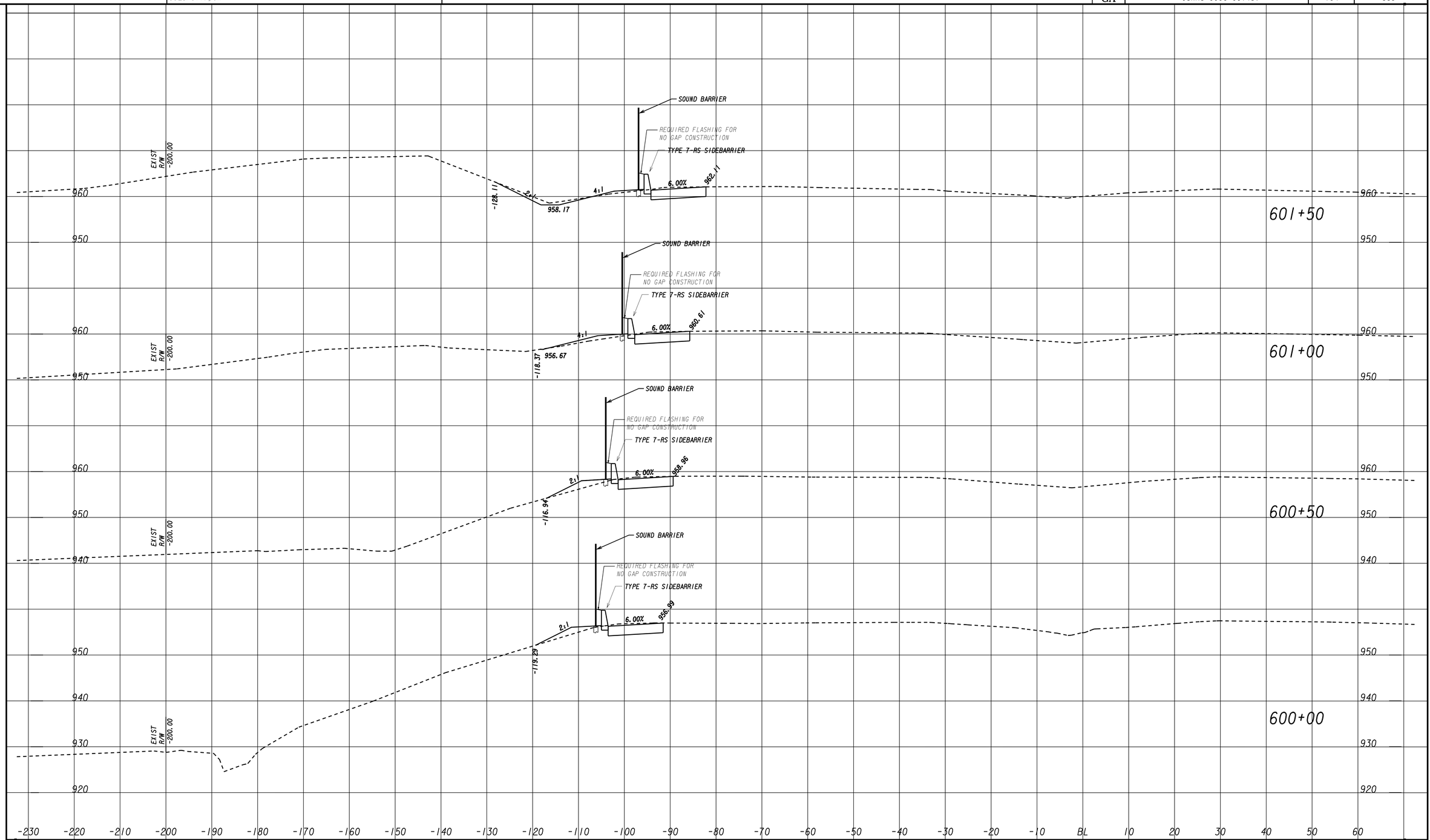
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-002

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

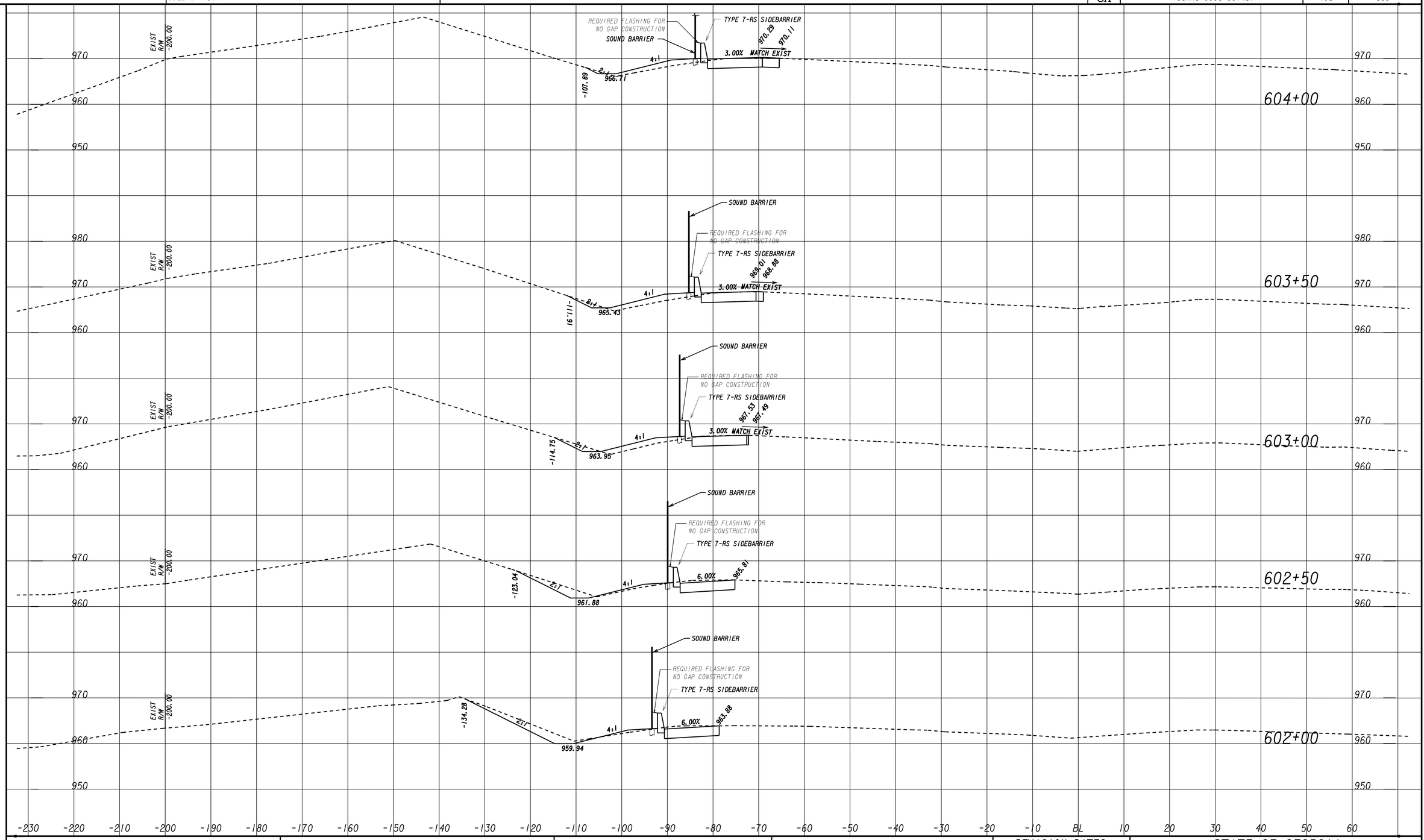
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-003

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-004

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	196	668

RELEASED FOR CONSTRUCTION 12/02/10

606+00

SOUND BARRIER
REQUIRED FLASHING FOR NO GAP CONSTRUCTION
TYPE 7-RS SIDEBARRIER
3.00% MATCH EXIST
975.84
975.24
2:1
-99.45
EXIST R/W -200.00

605+50

SOUND BARRIER
REQUIRED FLASHING FOR NO GAP CONSTRUCTION
TYPE 7-RS SIDEBARRIER
3.00% MATCH EXIST
974.51
973.90
4:1
4:1
-122.76
970.93
EXIST R/W -200.00

605+00

SOUND BARRIER
REQUIRED FLASHING FOR NO GAP CONSTRUCTION
TYPE 7-RS SIDEBARRIER
3.00% MATCH EXIST
973.04
972.61
4:1
2:1
-105.98
969.46
EXIST R/W -200.00

604+50

SOUND BARRIER
REQUIRED FLASHING FOR NO GAP CONSTRUCTION
TYPE 7-RS SIDEBARRIER
3.00% MATCH EXIST
971.62
971.33
4:1
2:1
-106.10
968.02
EXIST R/W -200.00

970 960 950 940

-230 -220 -210 -200 -190 -180 -170 -160 -150 -140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 BL 10 20 30 40 50 60

SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

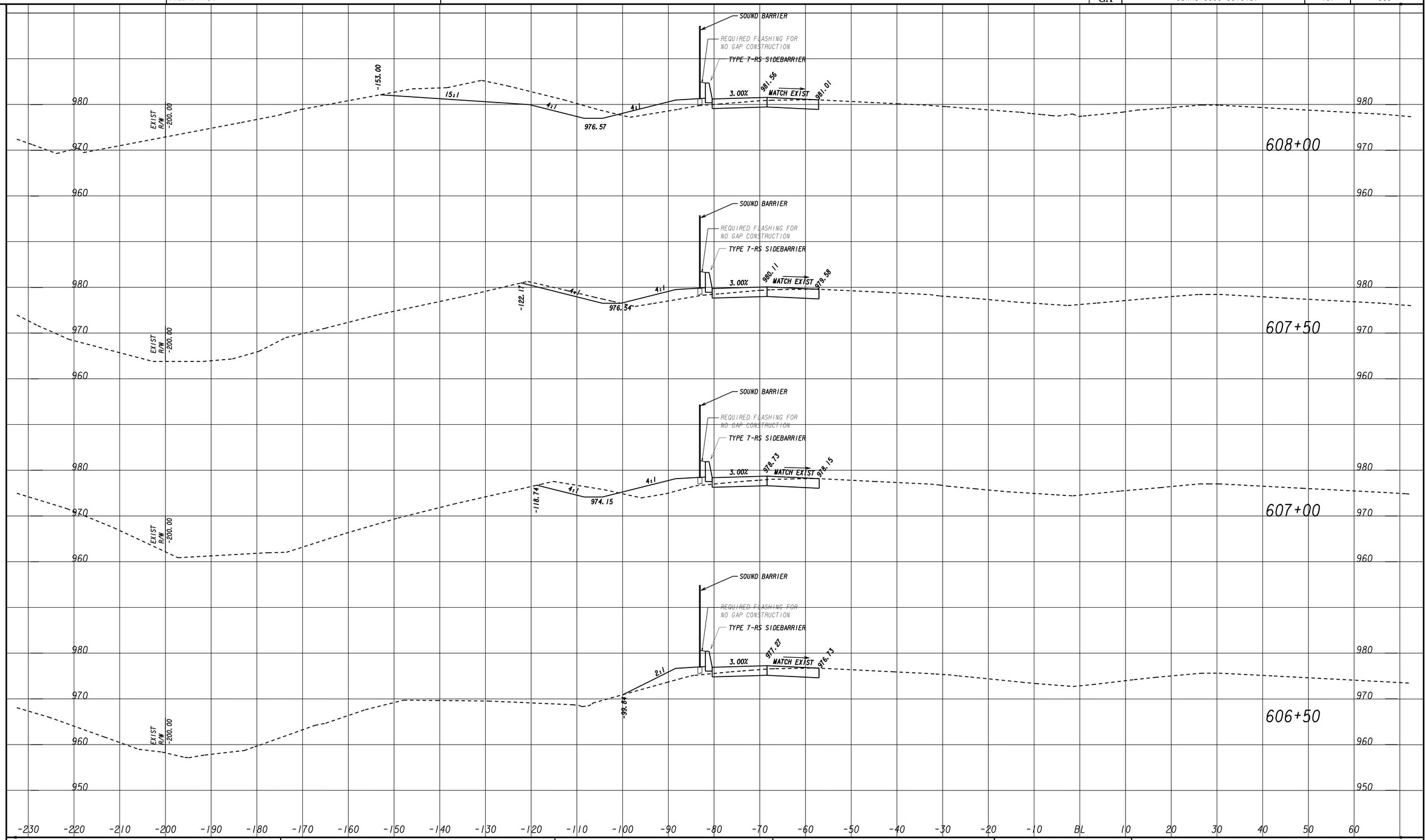
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-005

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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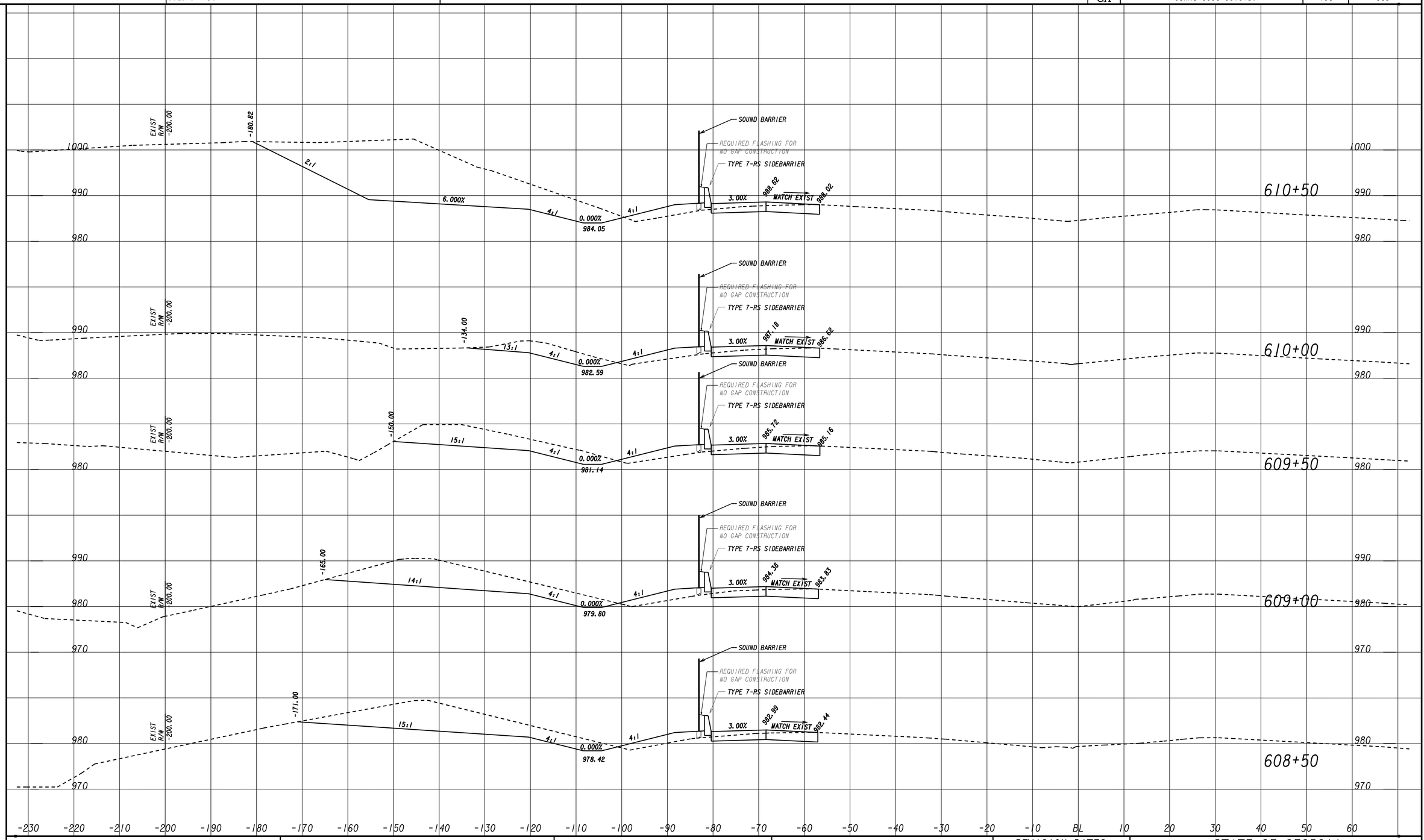
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-006

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

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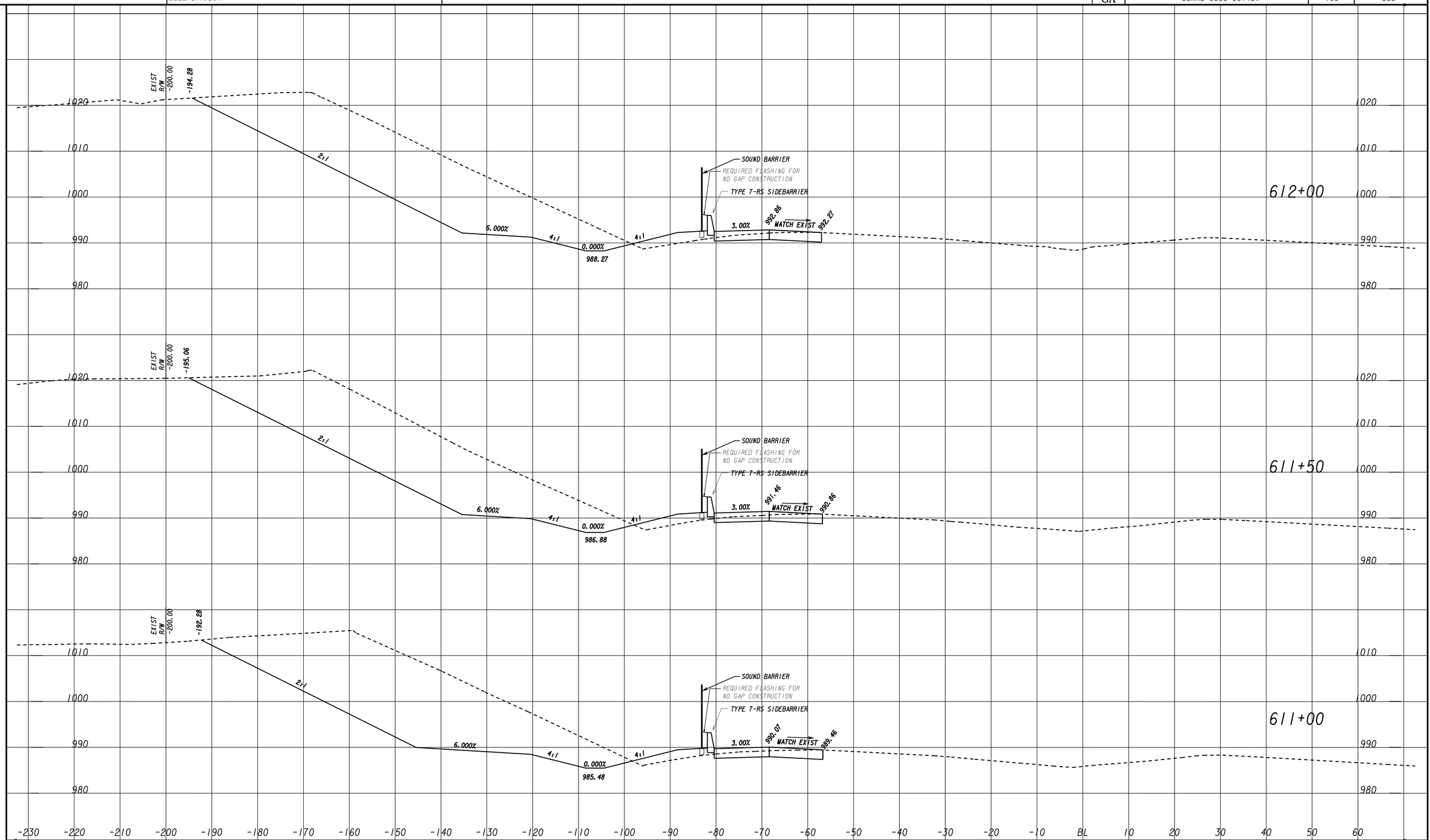
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-007

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-008

3/1/2007 SUYSEW

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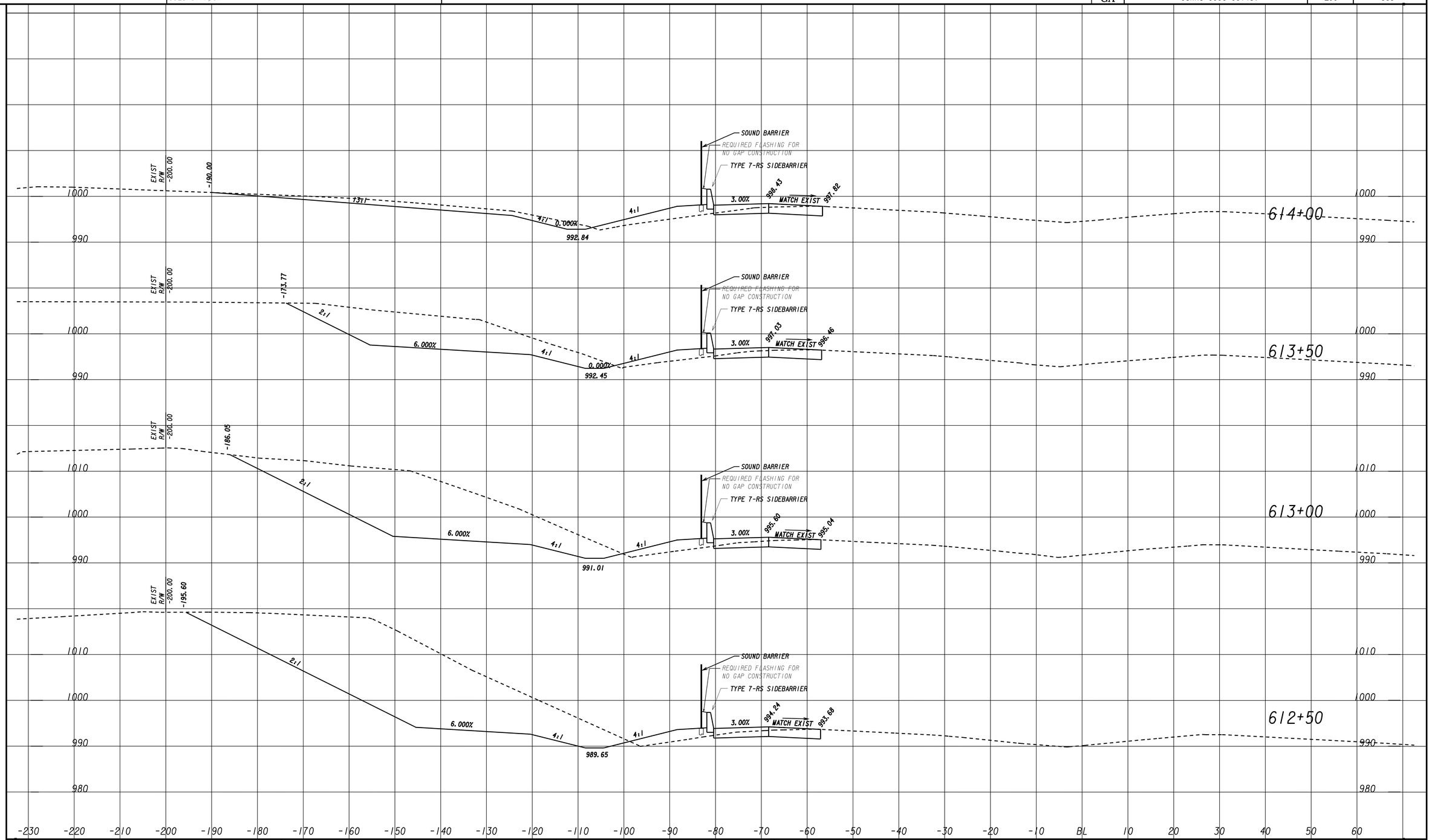

SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

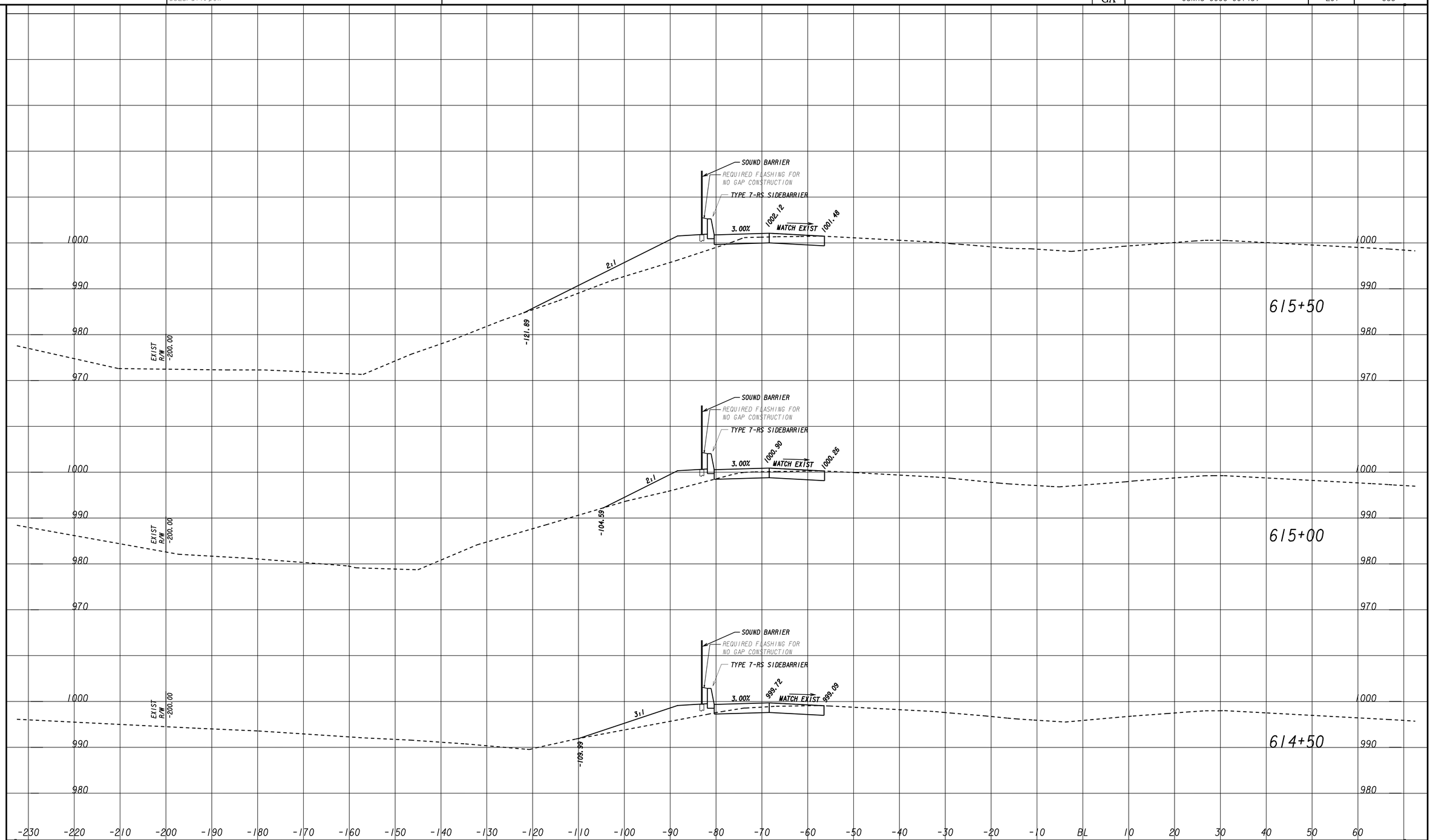
I-575 SOUTHBOUND

DRAWING No. 23-009

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	201	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

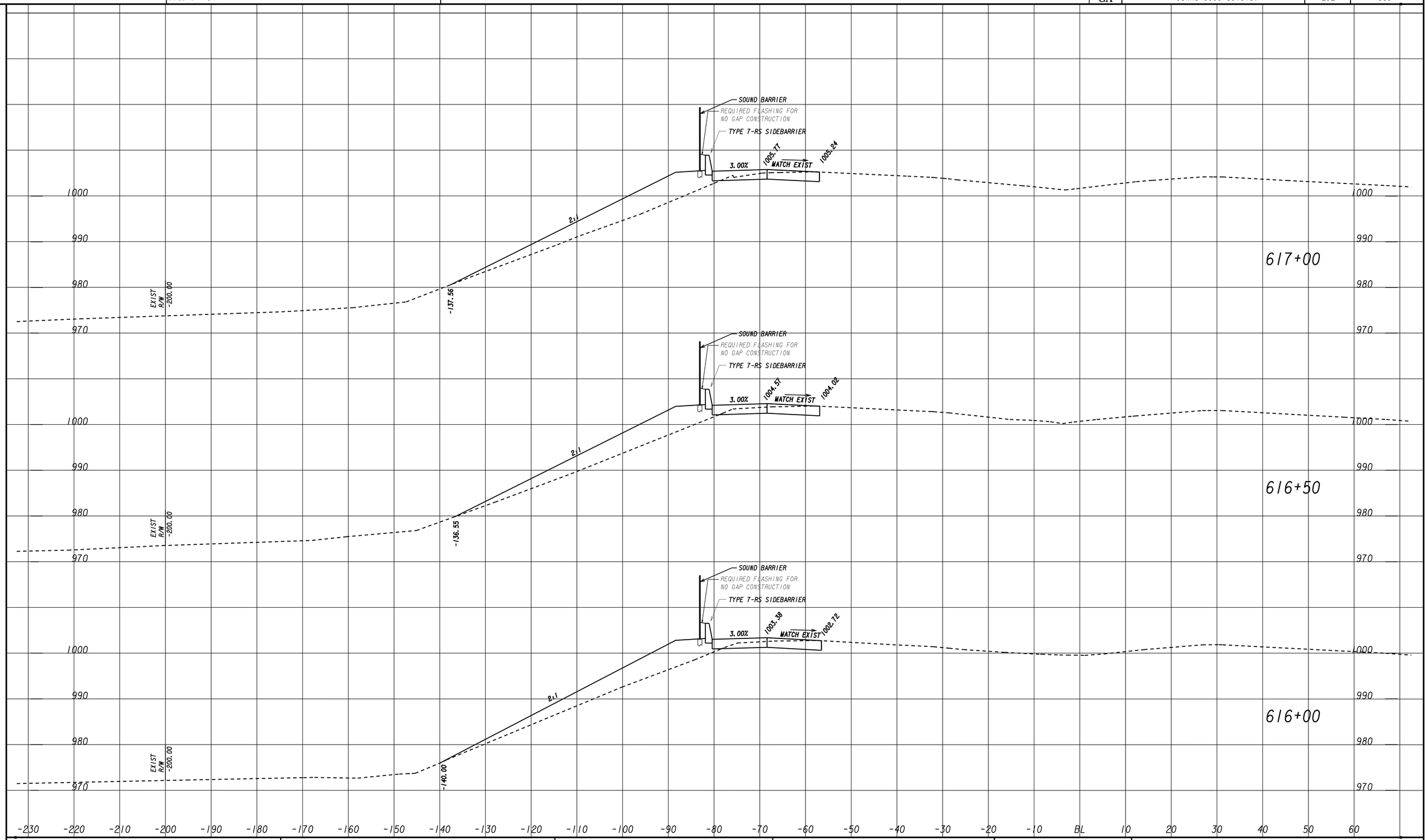
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-010

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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DEPARTMENT OF TRANSPORTATION
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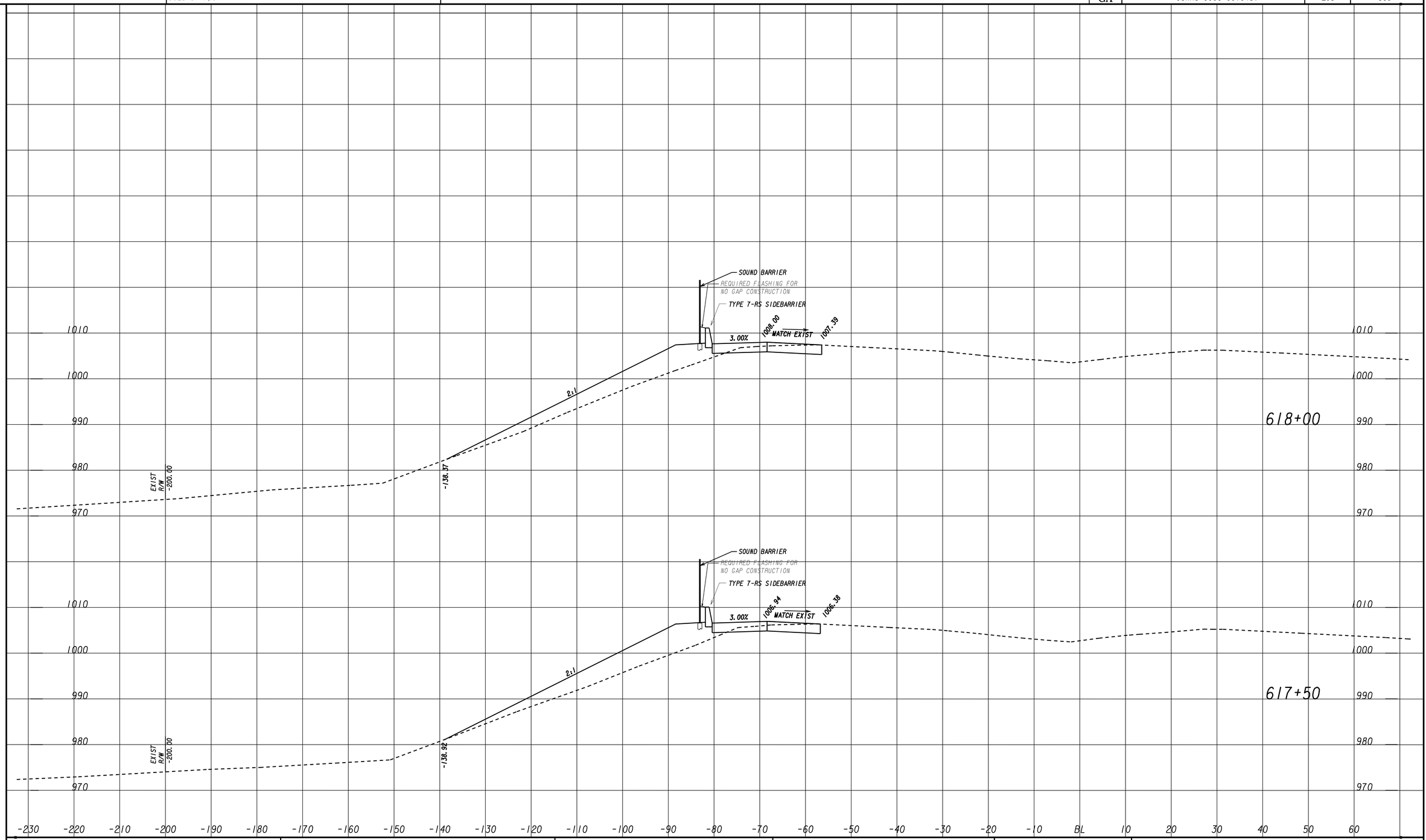
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-011

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

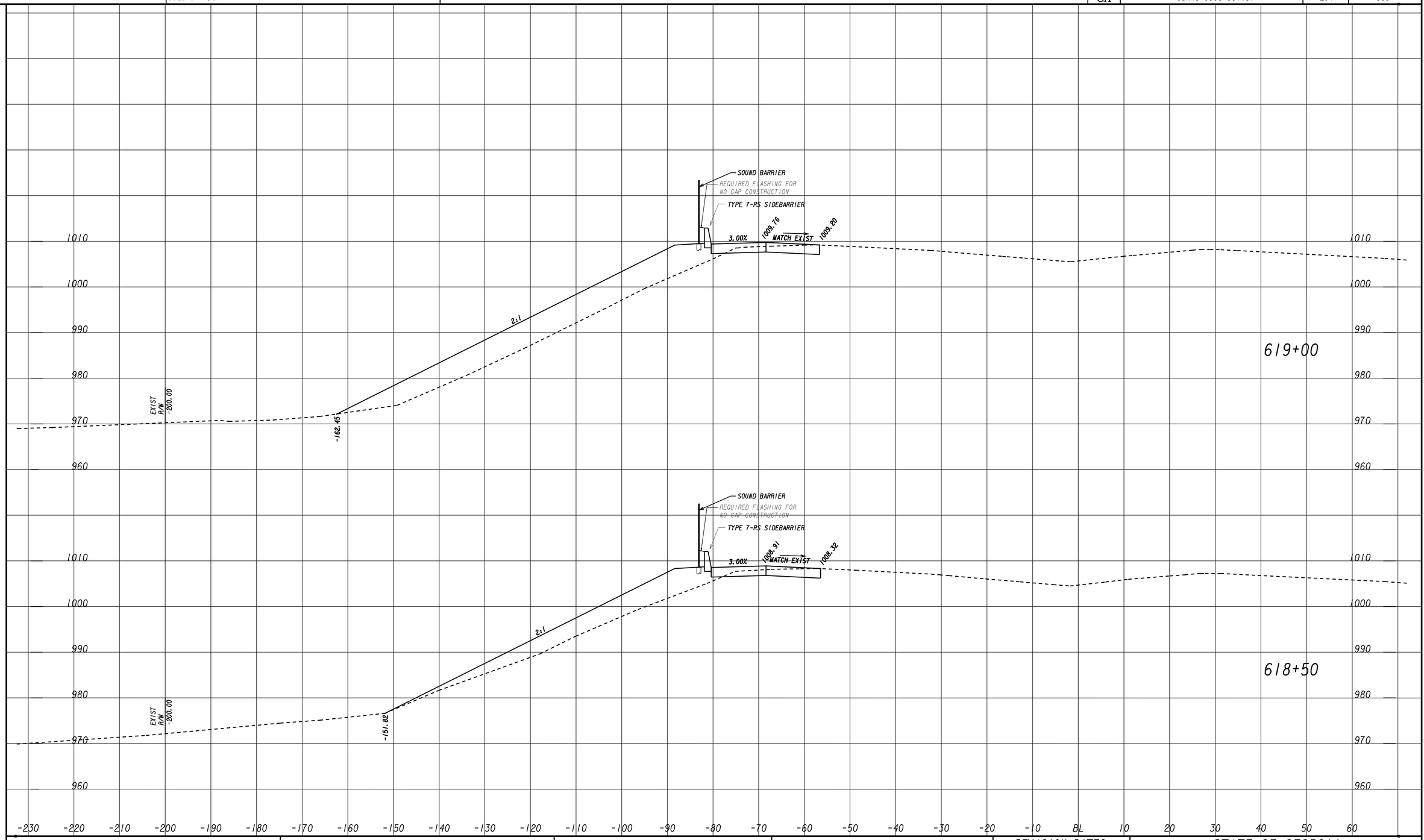
I-575 SOUTHBOUND

DRAWING No. 23-012

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	204	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

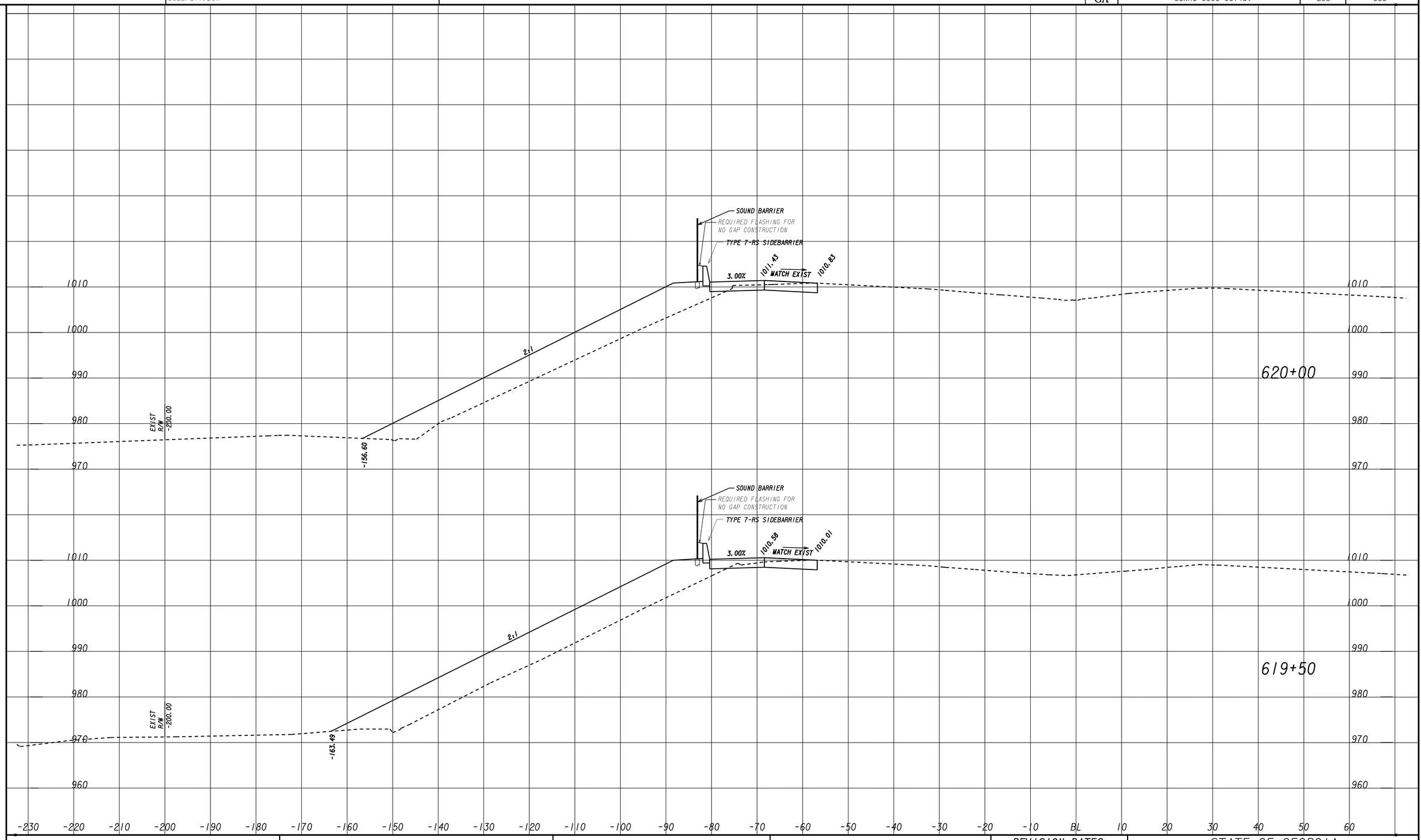
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-013

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

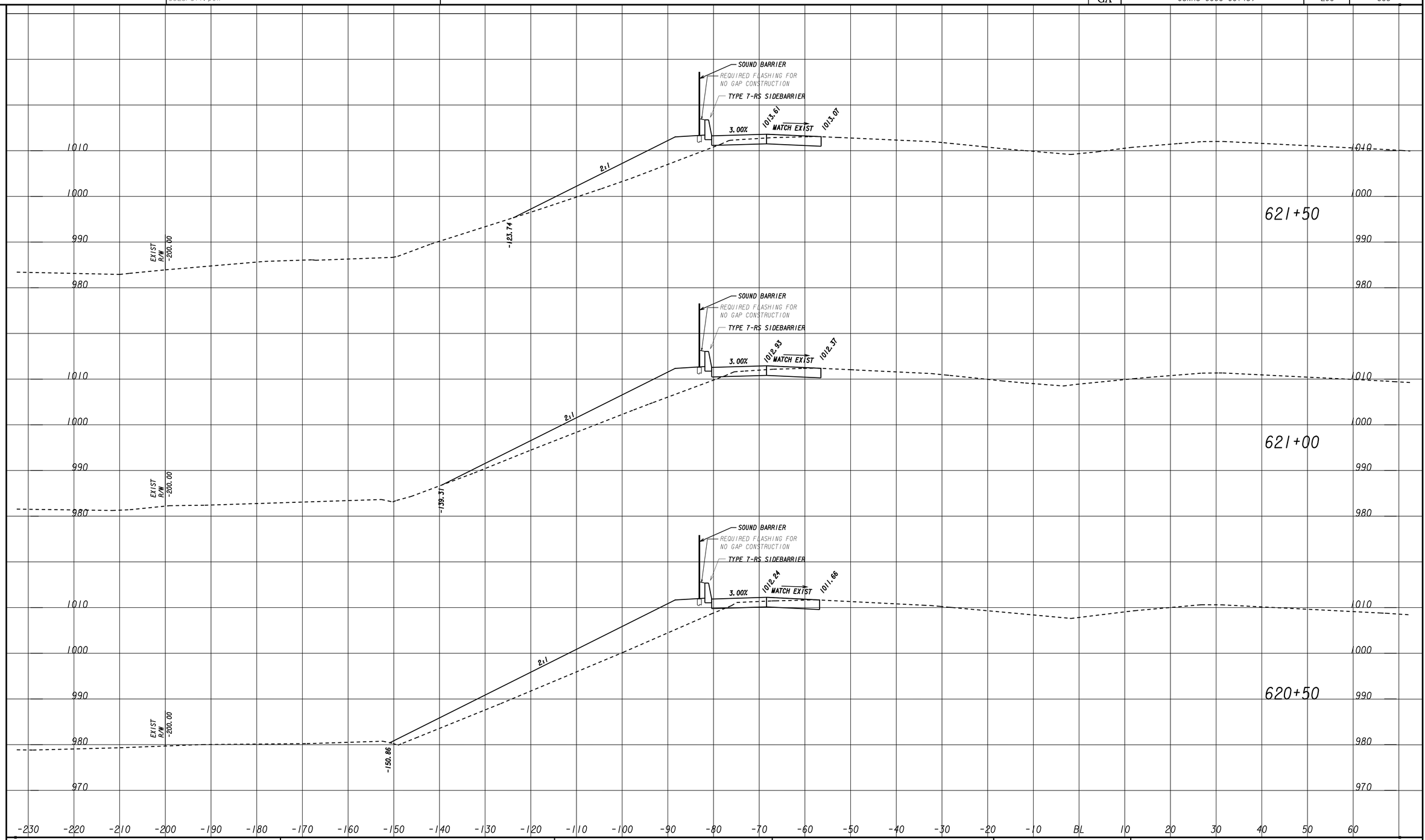
I-575 SOUTHBOUND

DRAWING No. 23-014

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	206	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

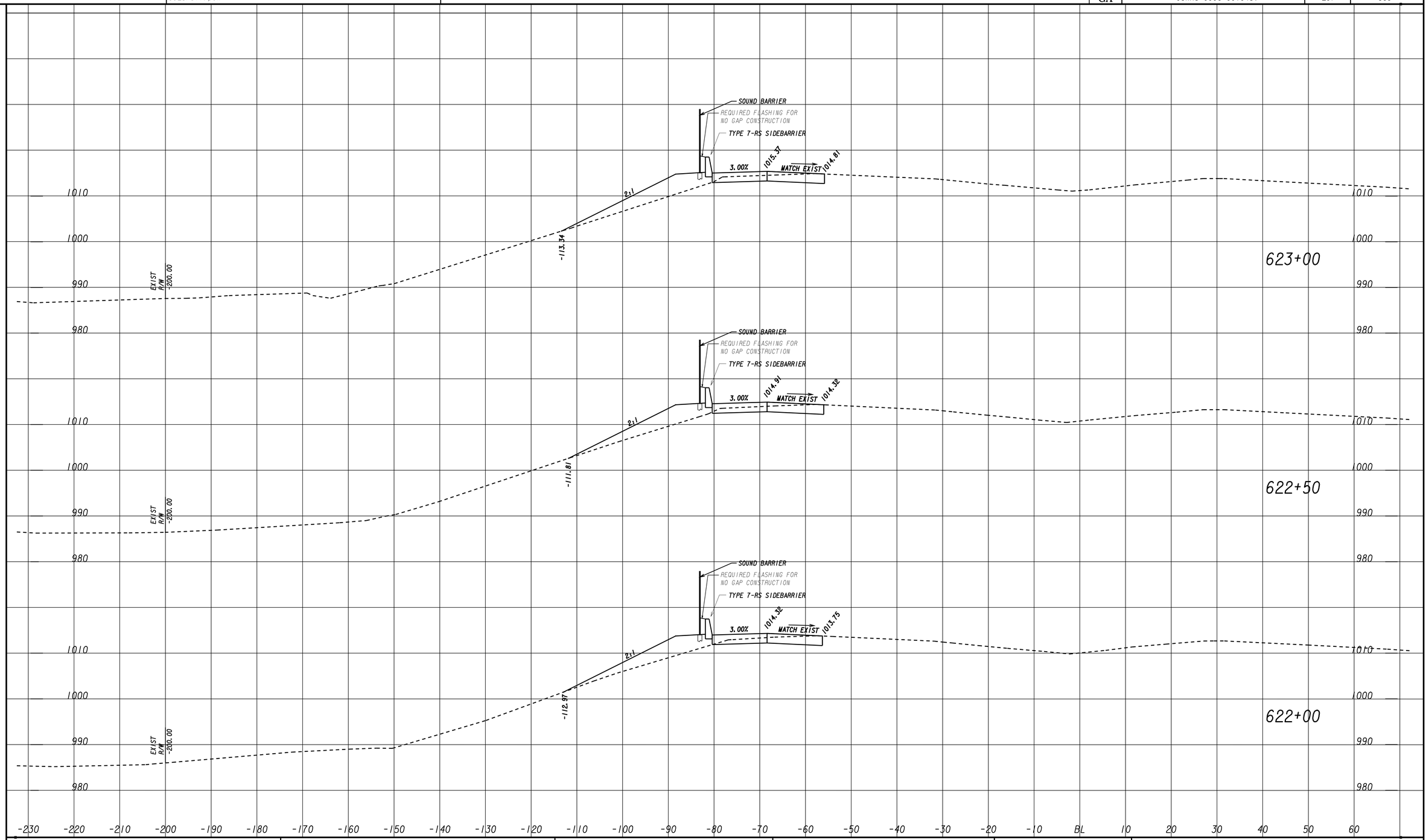
I-575 SOUTHBOUND

DRAWING No. 23-015

3/1/2007 SUKSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	207	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

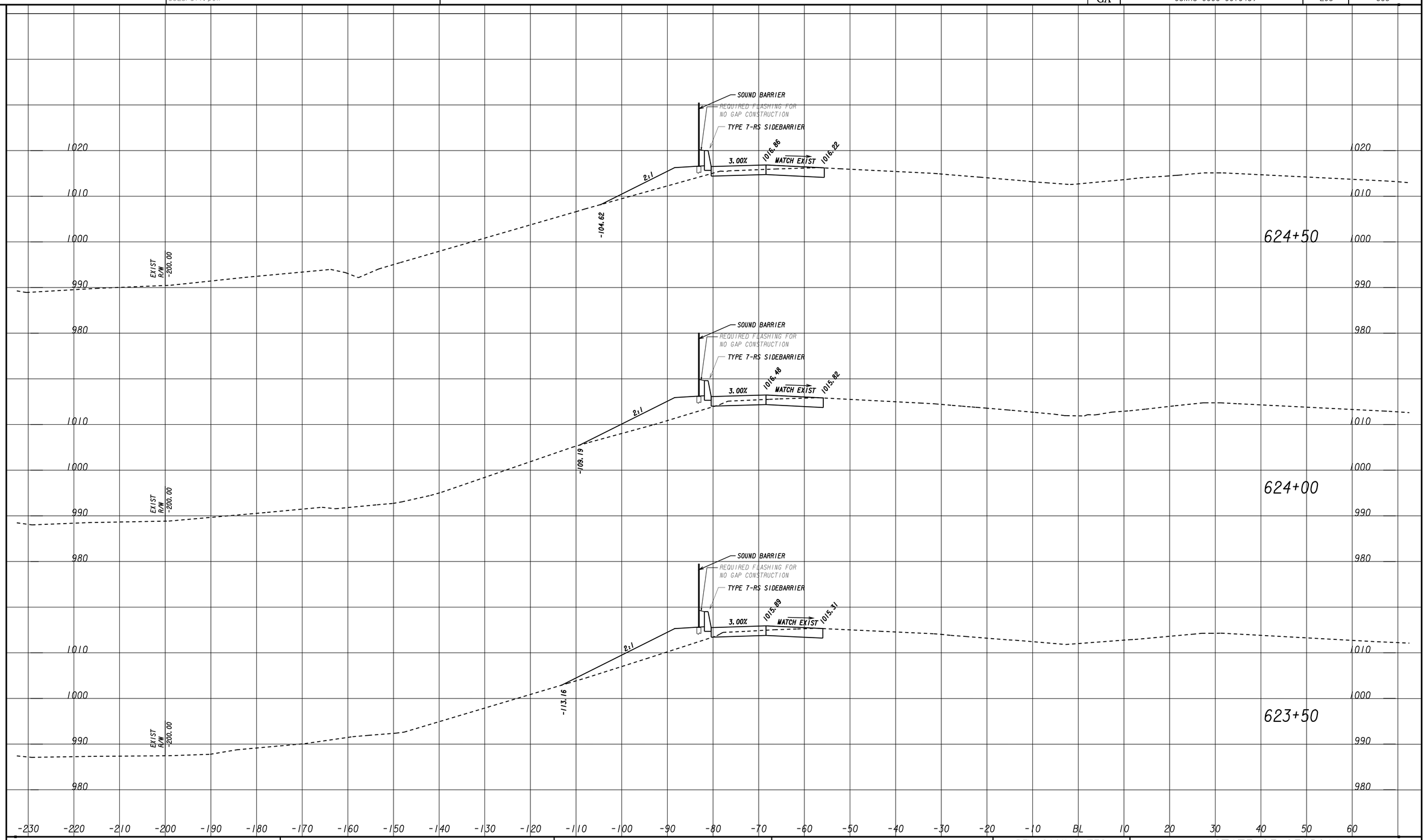
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-016

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

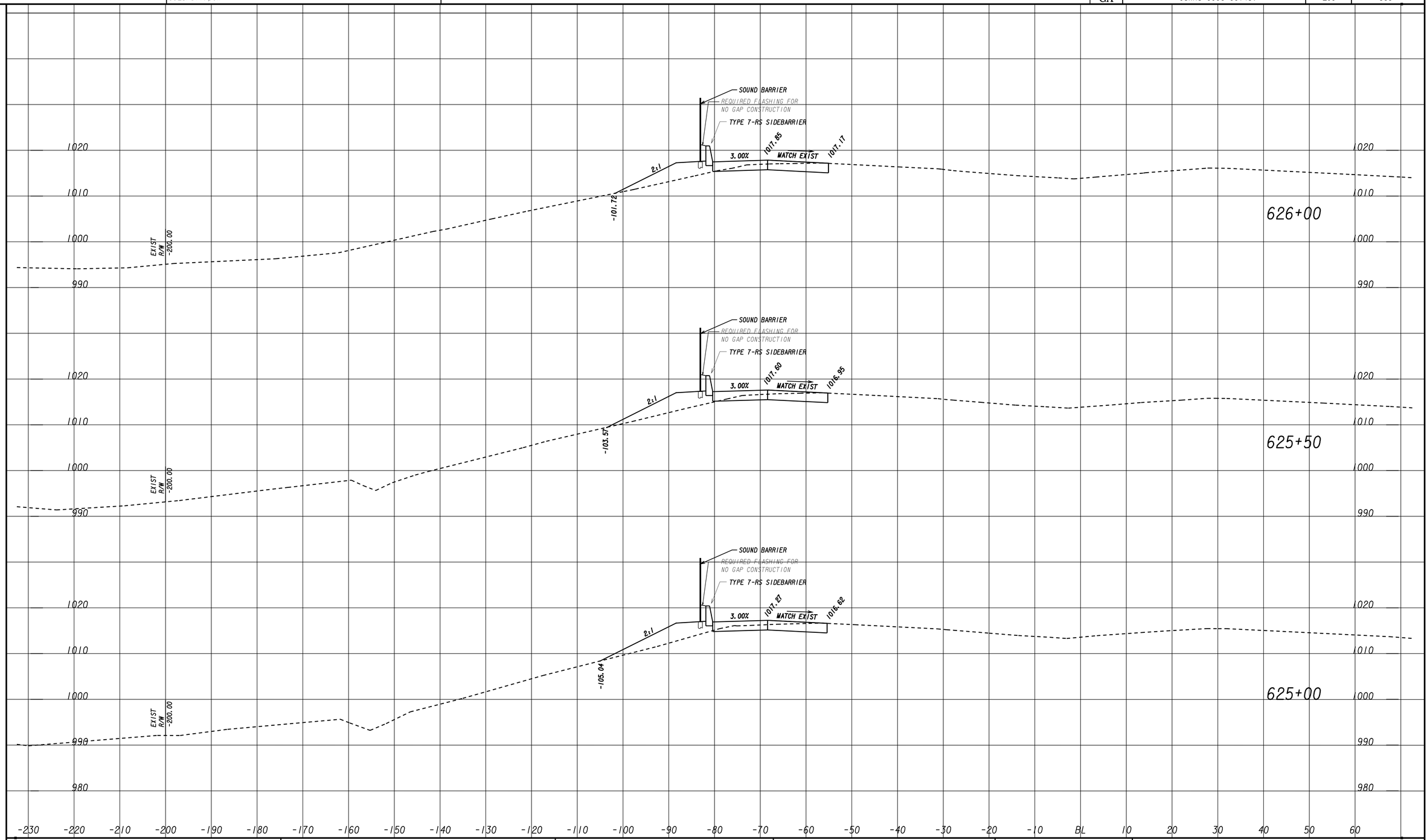
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-017

3//2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

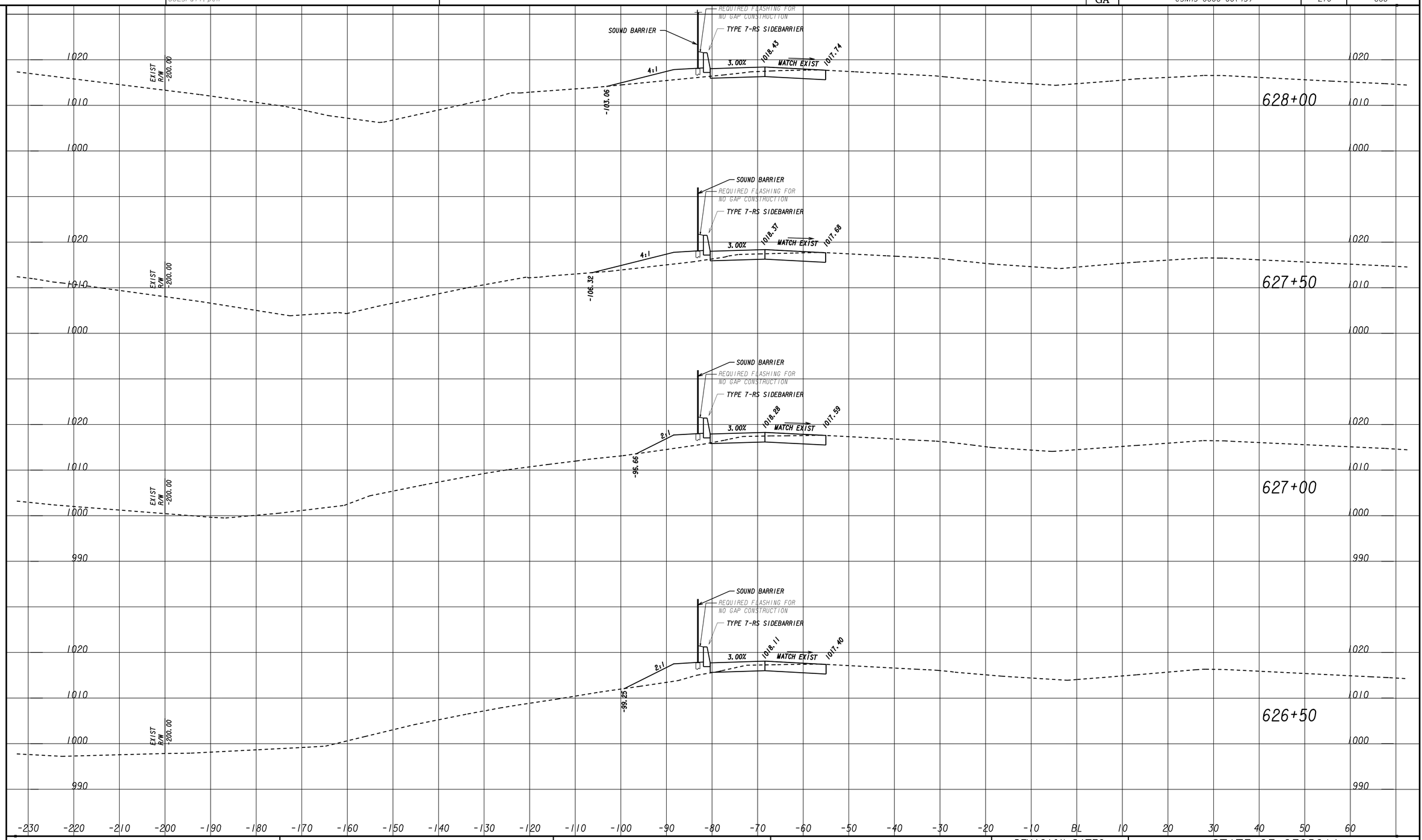
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-018

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

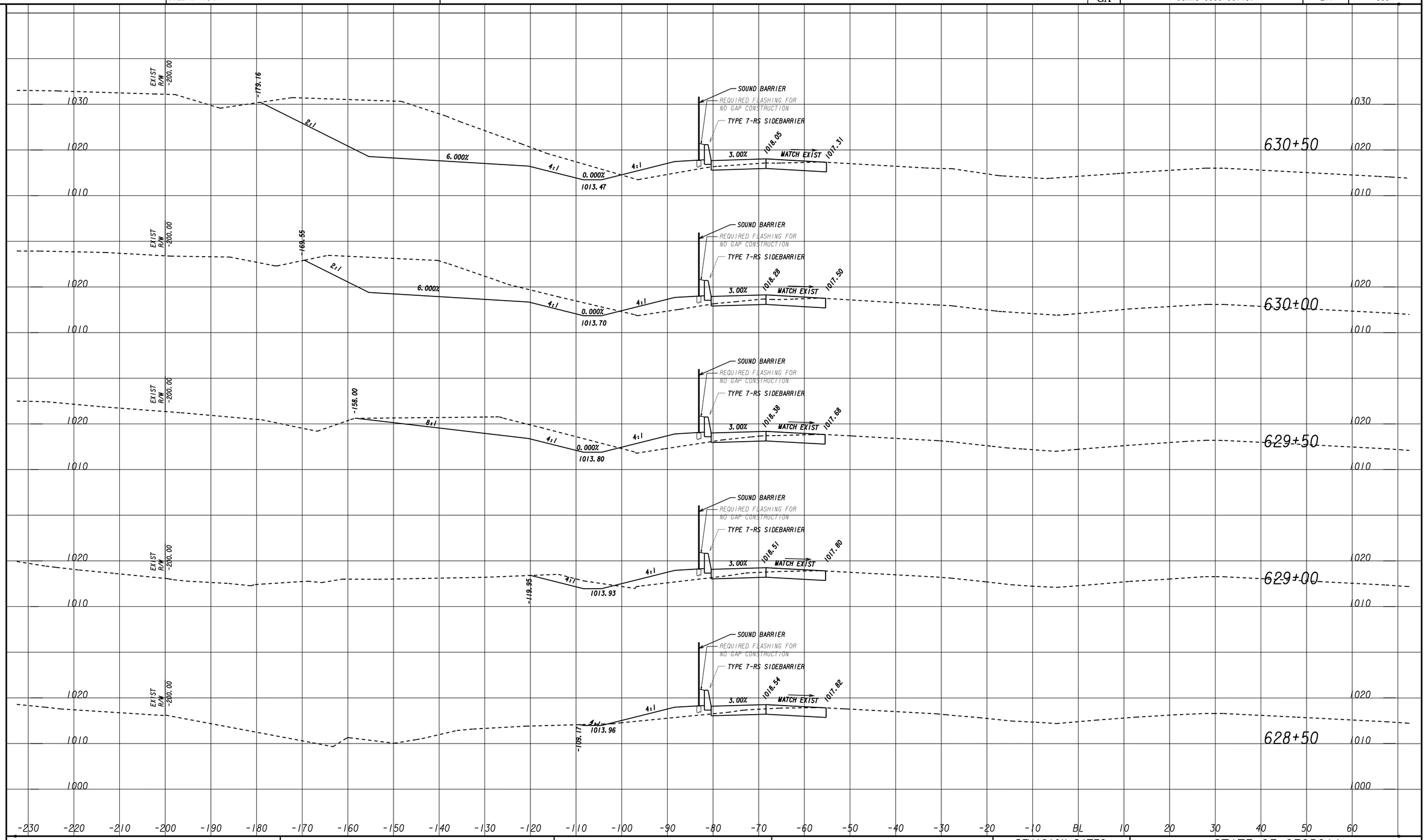
I-575 SOUTHBOUND

DRAWING No. 23-019

3/1/2007 SUXSEW

JParks

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
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(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

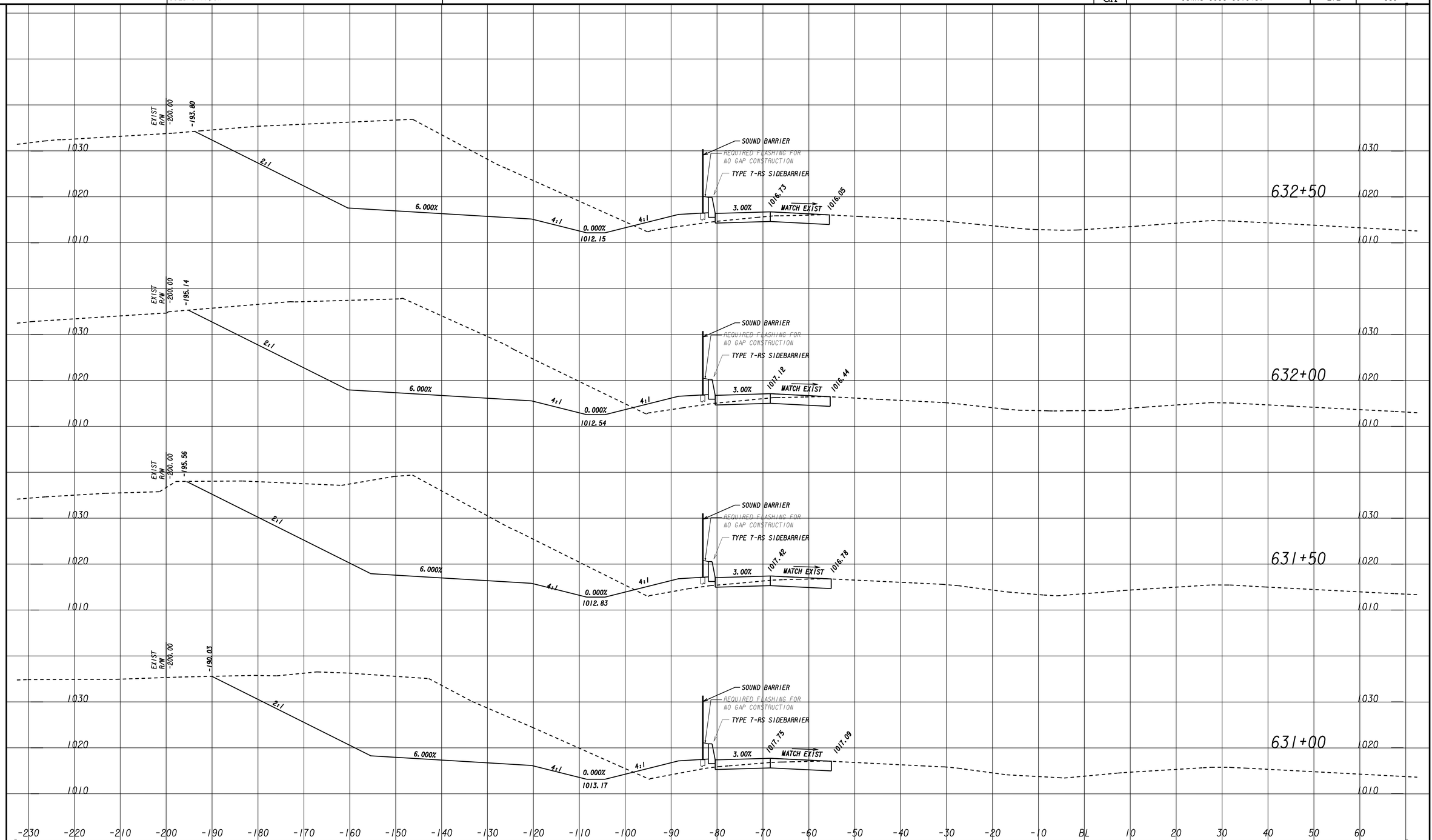
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-020

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

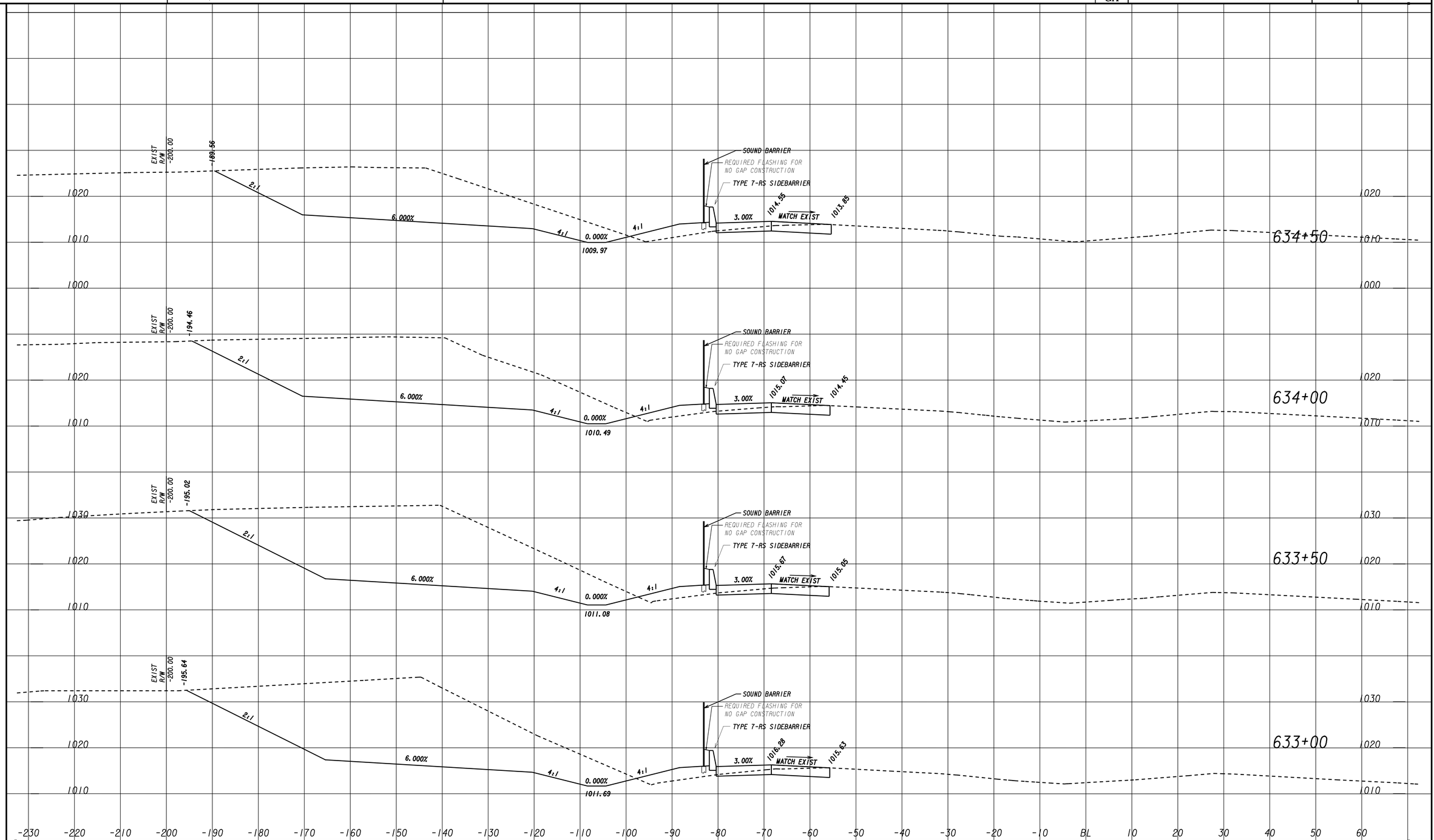
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-021

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

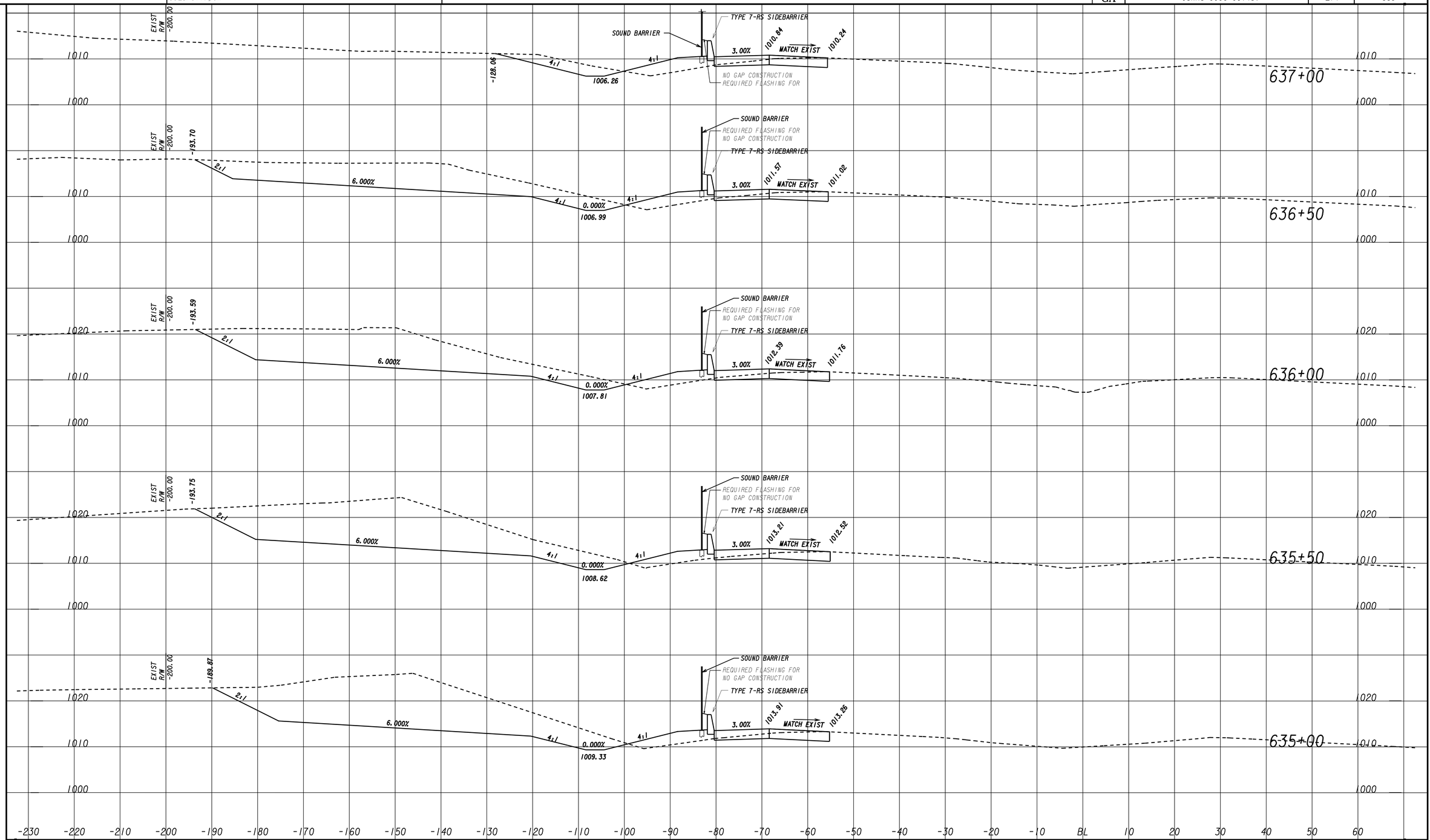
I-575 SOUTHBOUND

DRAWING No. 23-022

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	214	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

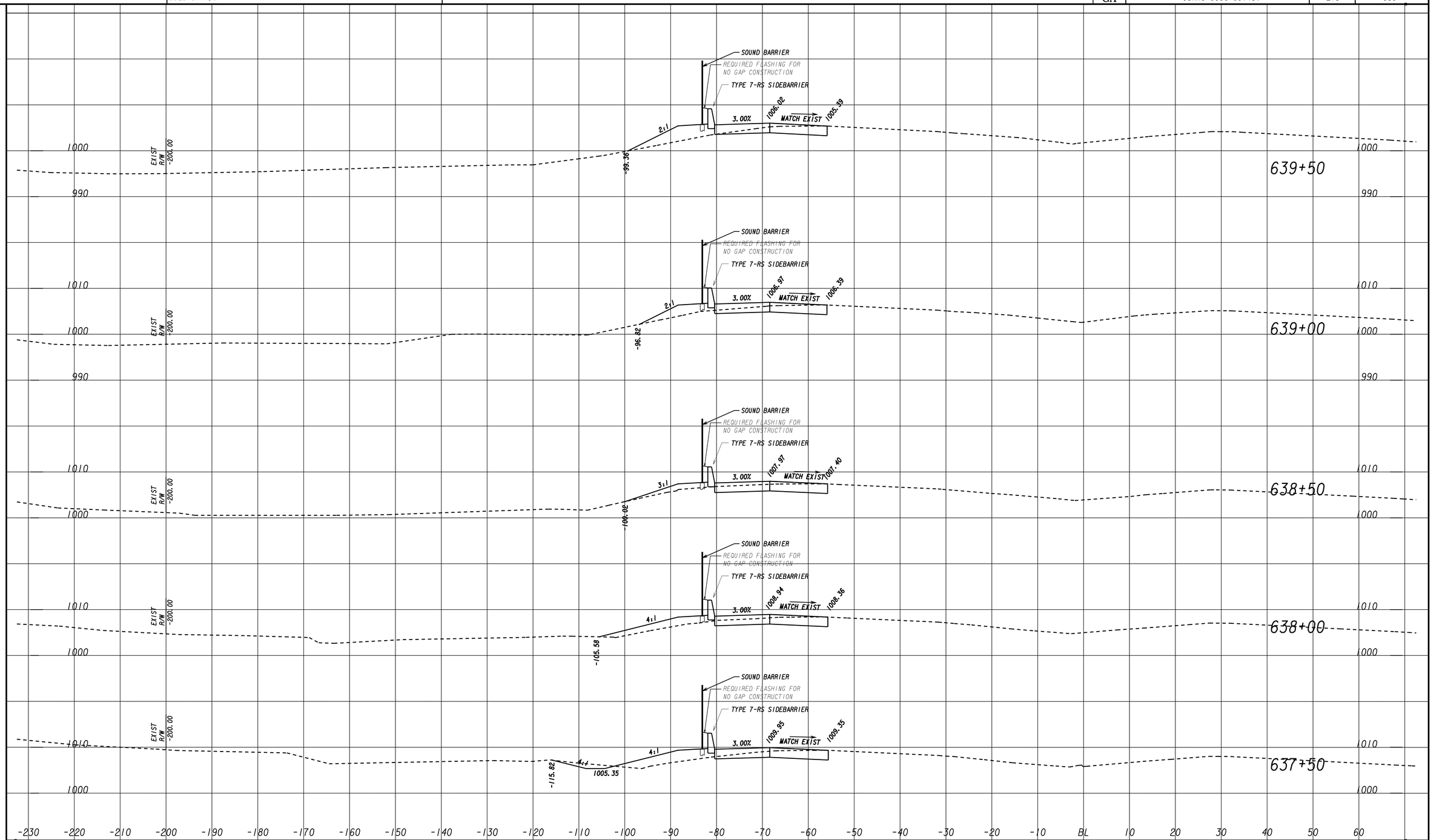
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-023

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

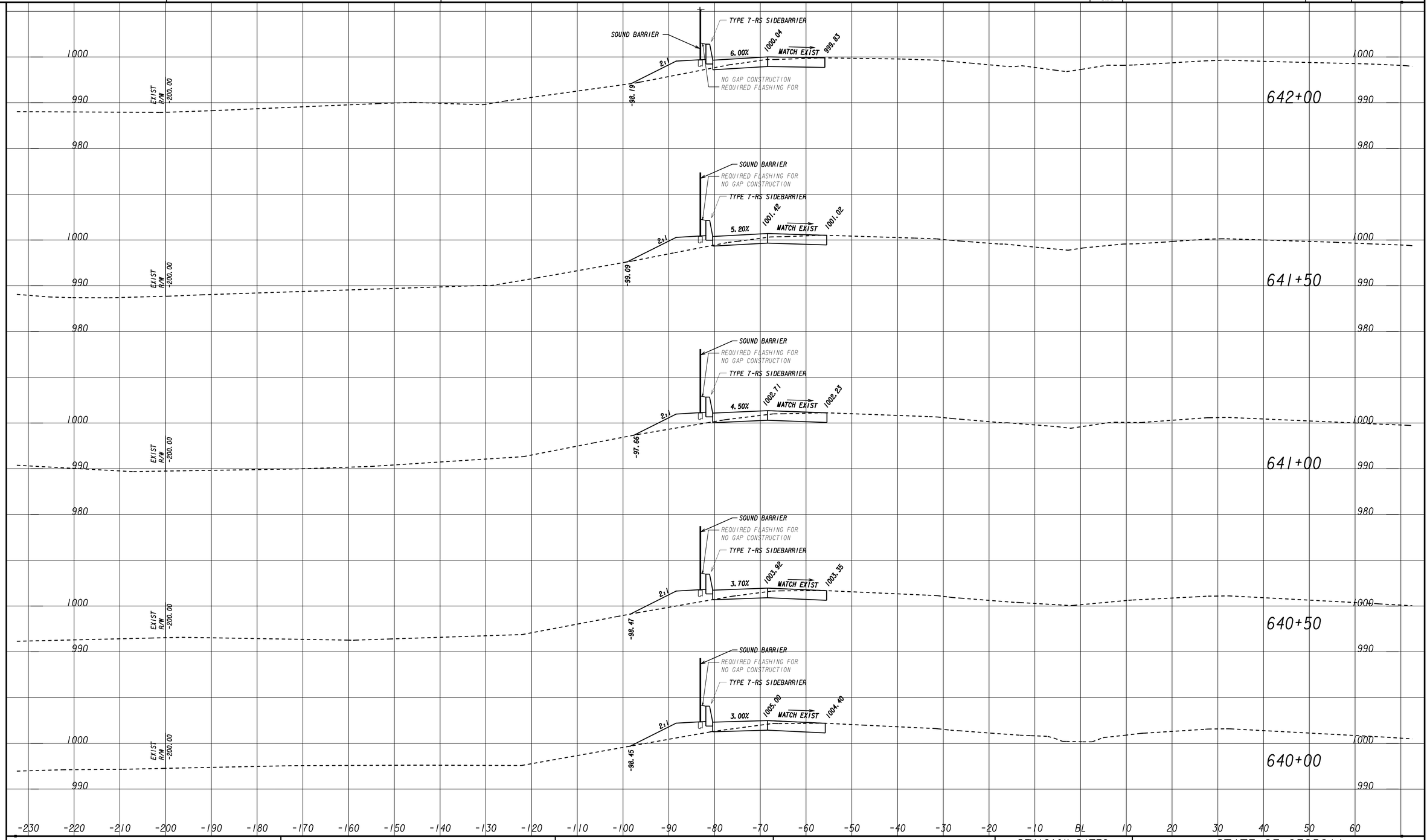
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-024

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

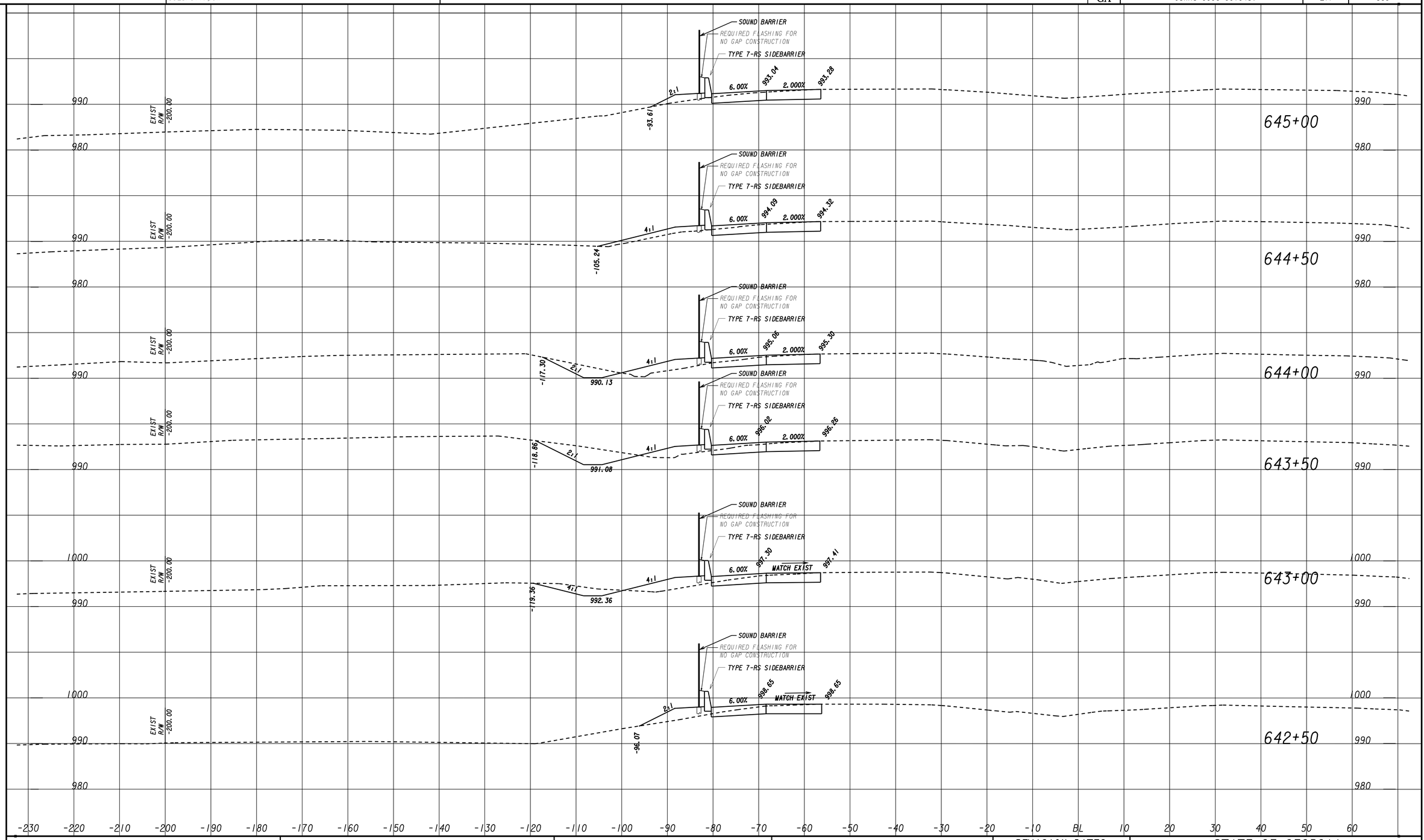
I-575 SOUTHBOUND

DRAWING No.
23-025

3/1/2007 SUXSEW

06-DEC-2010 11:50	TIME$$$	006043XS01_SB25	Y:\Roadways\07400004\006043\DGN\006043XS01_SB.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	217	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

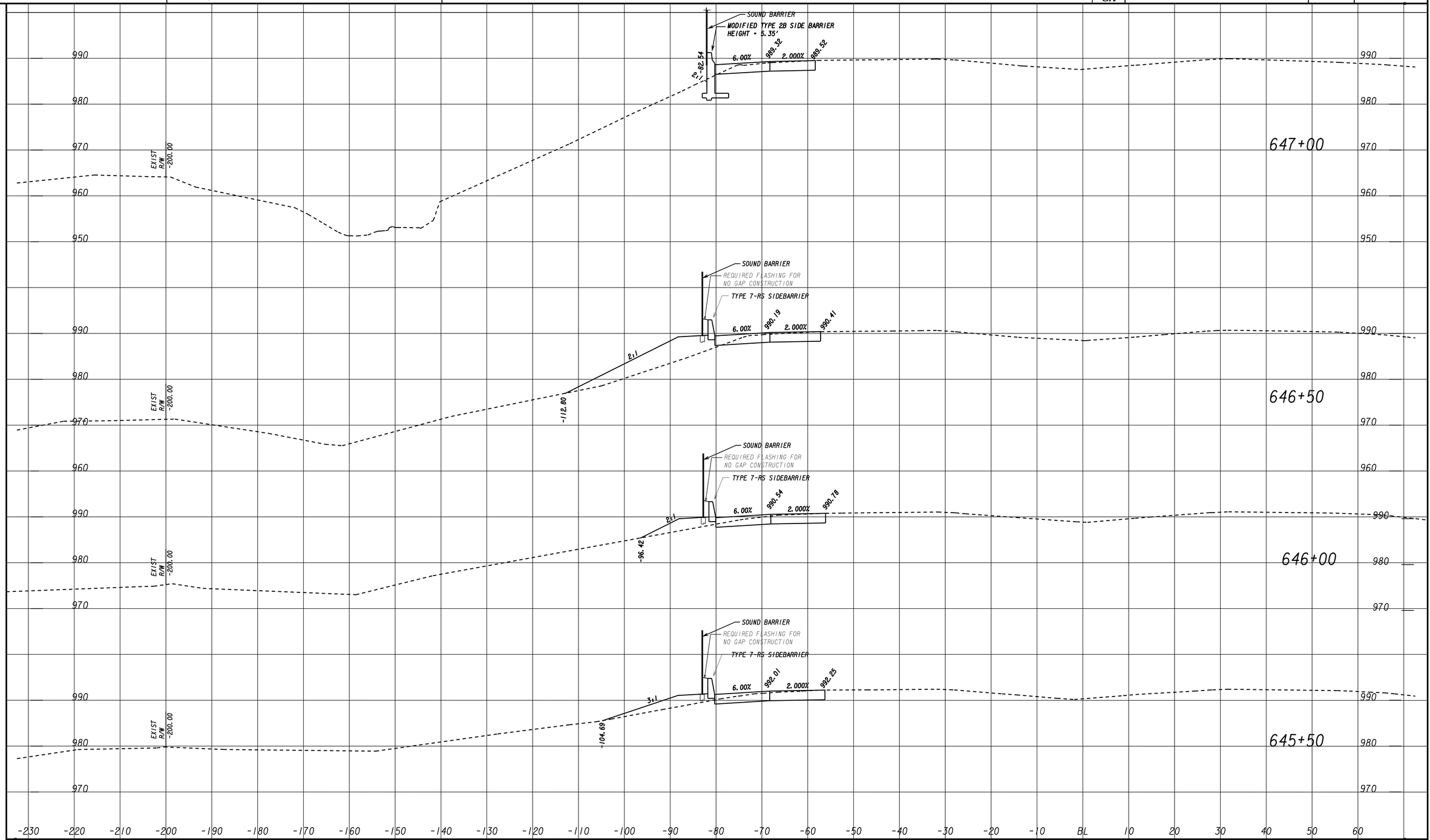
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No.
23-026

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

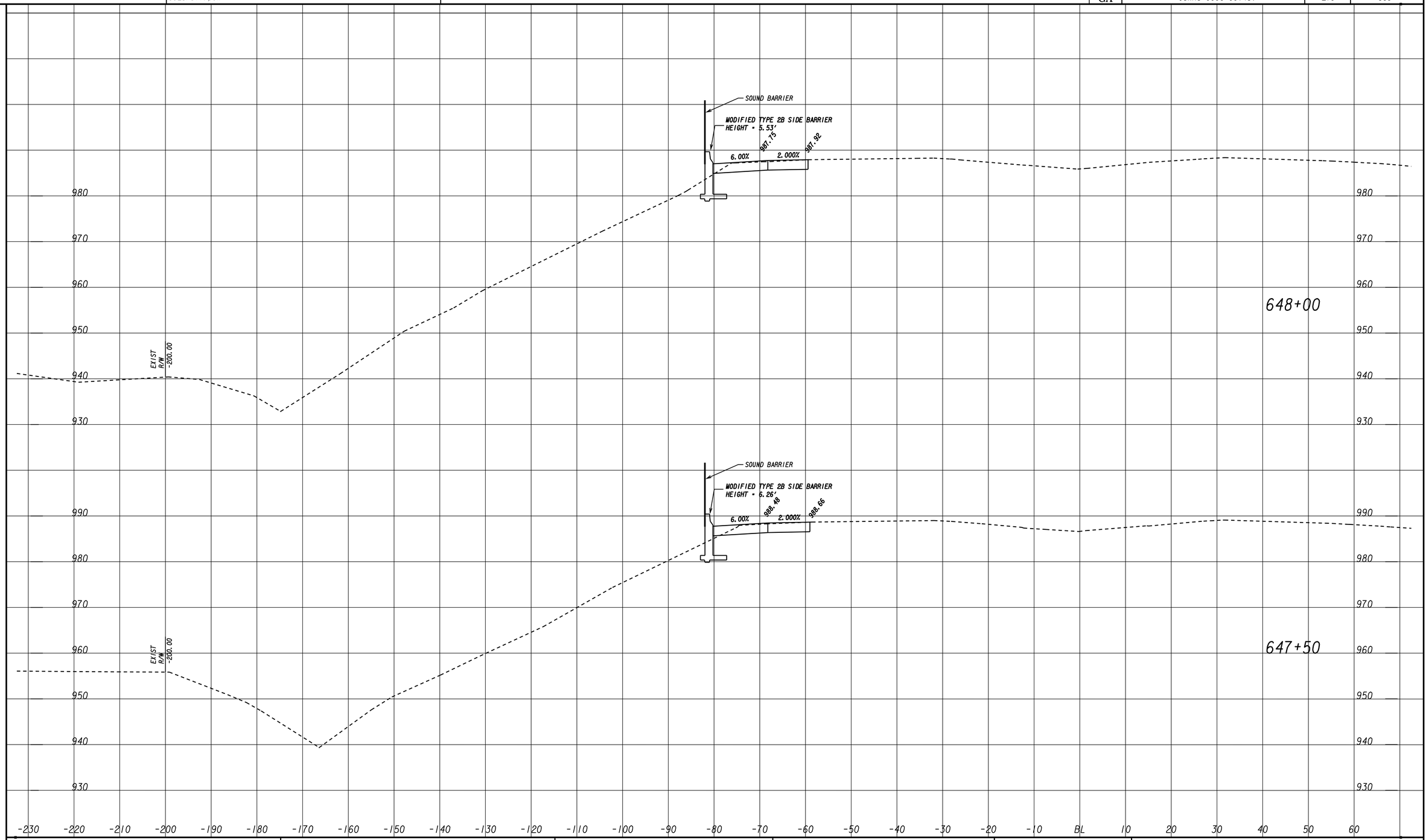
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-027

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

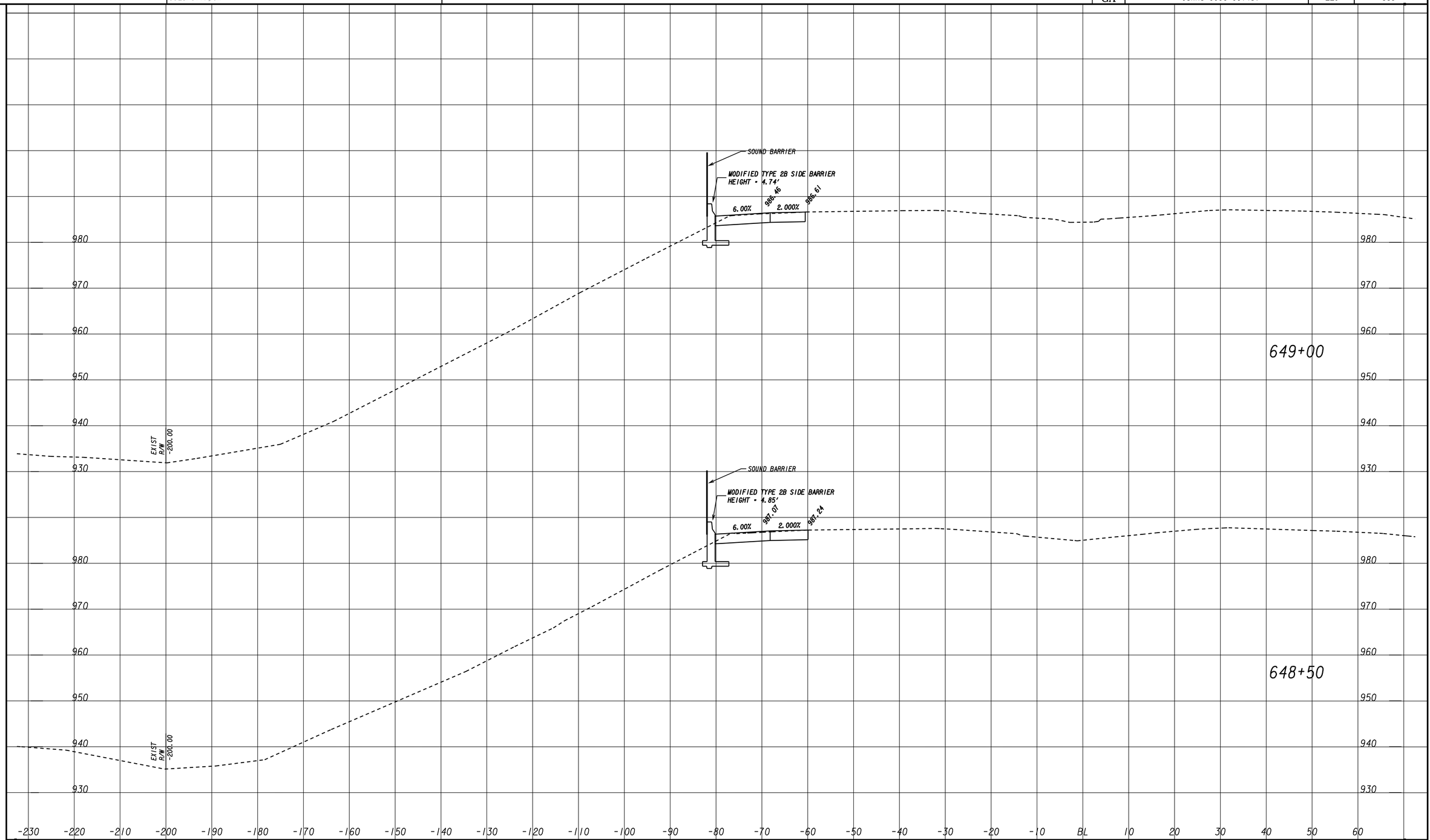
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-028

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

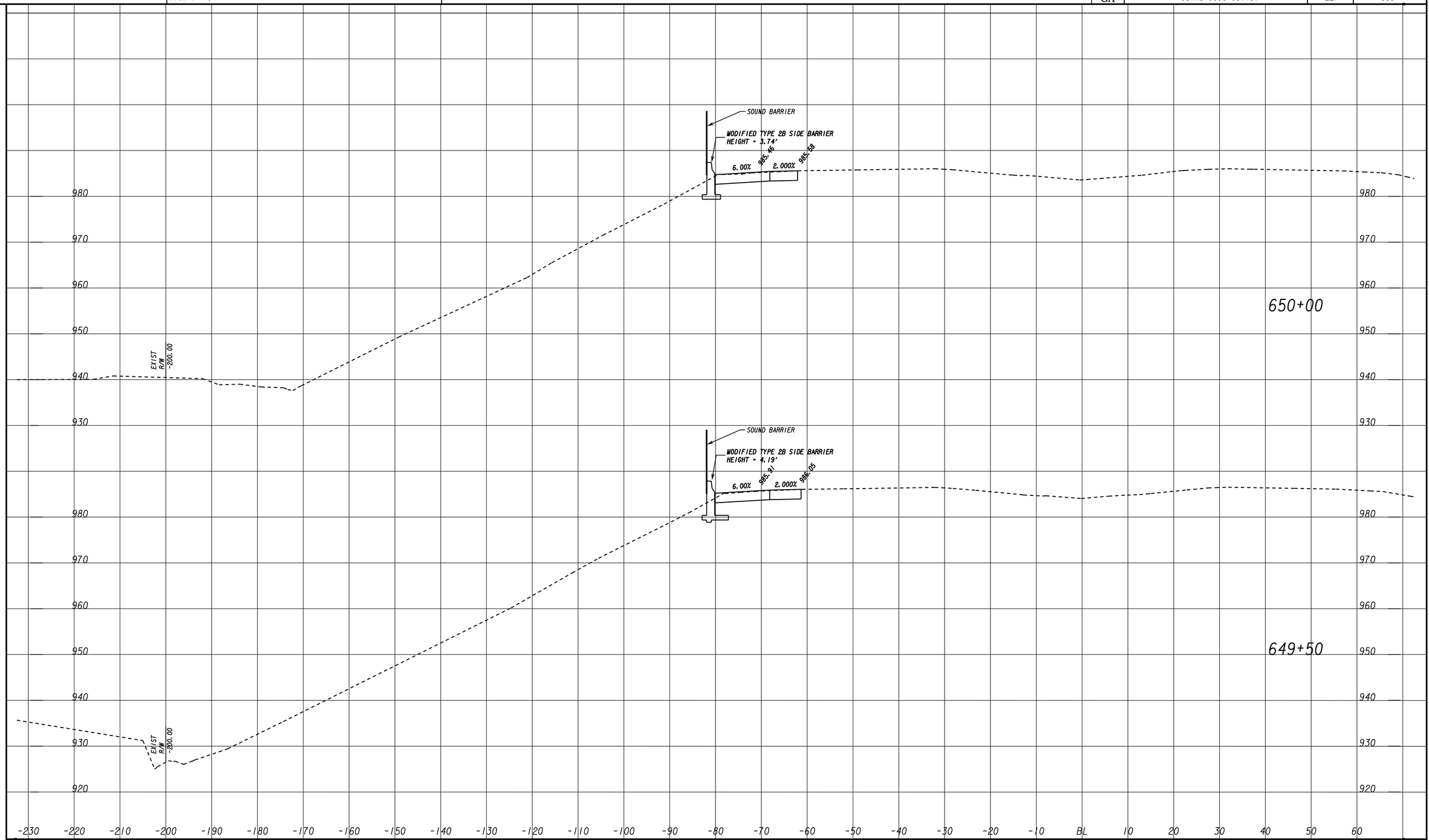
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-029

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

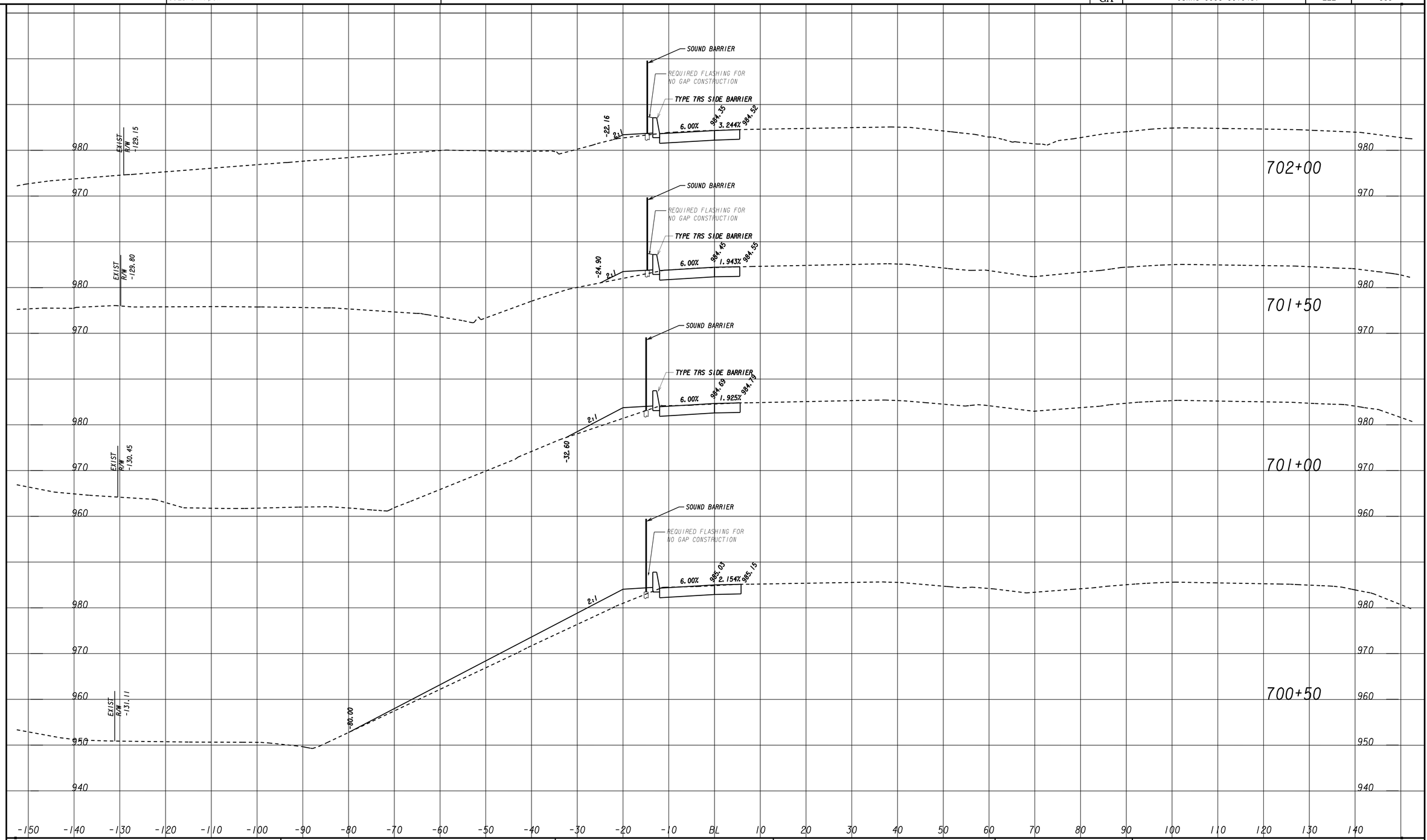
CROSS SECTIONS

I-575 SOUTHBOUND

DRAWING No. 23-030

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

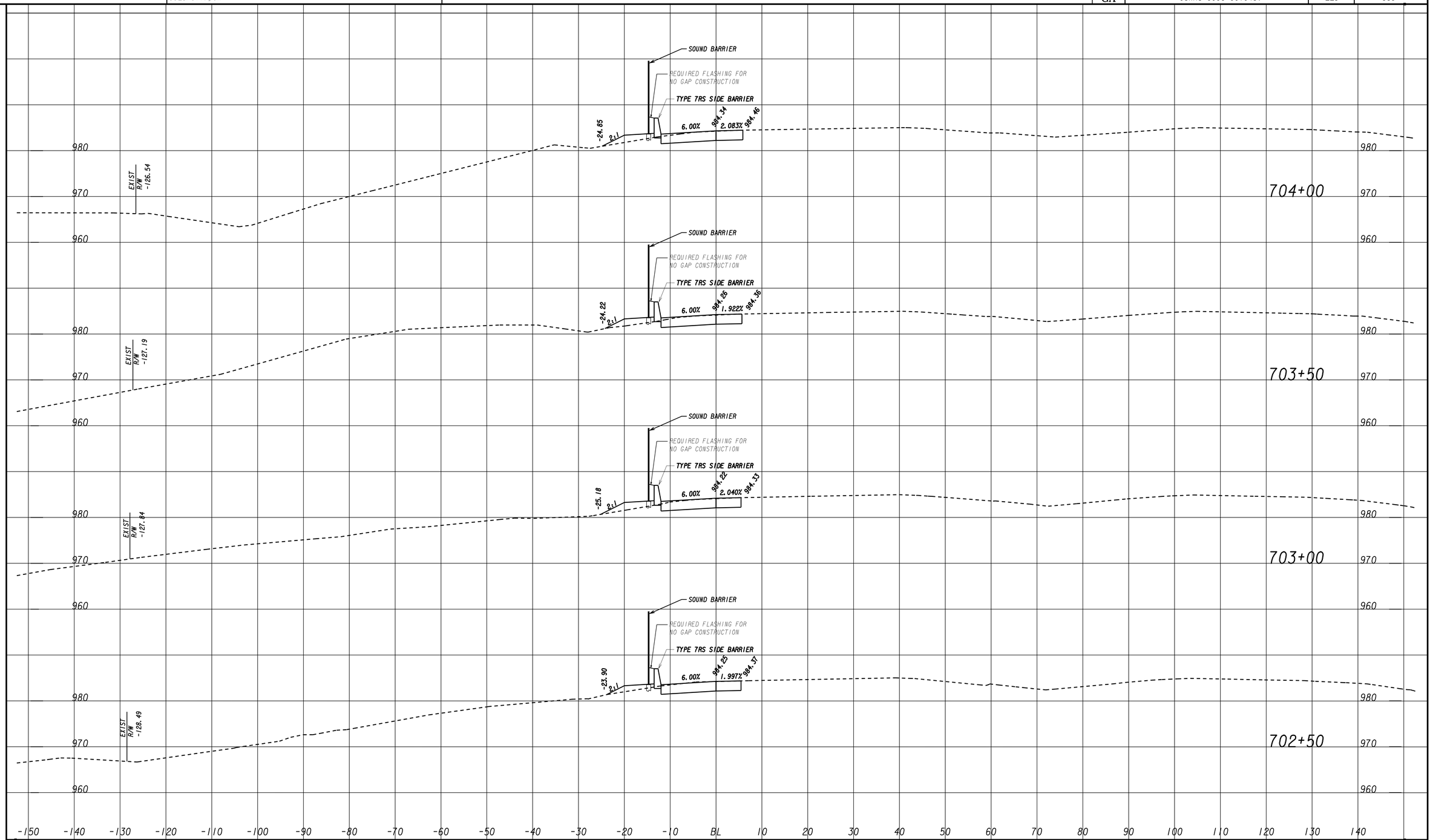
CROSS SECTIONS

RAMP 'D'

DRAWING No. 23-031

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

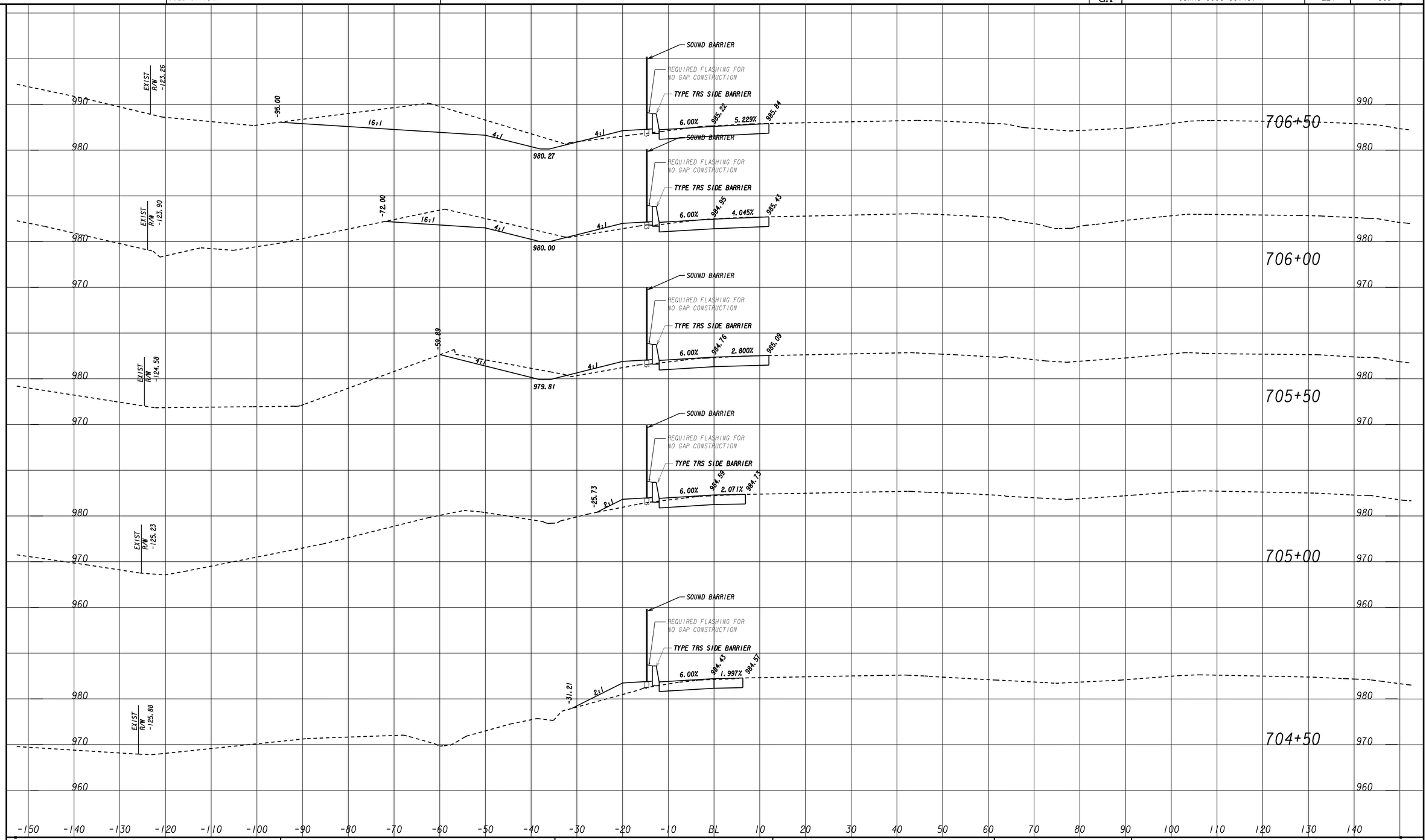
CROSS SECTIONS

RAMP 'D'

DRAWING No. 23-032

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

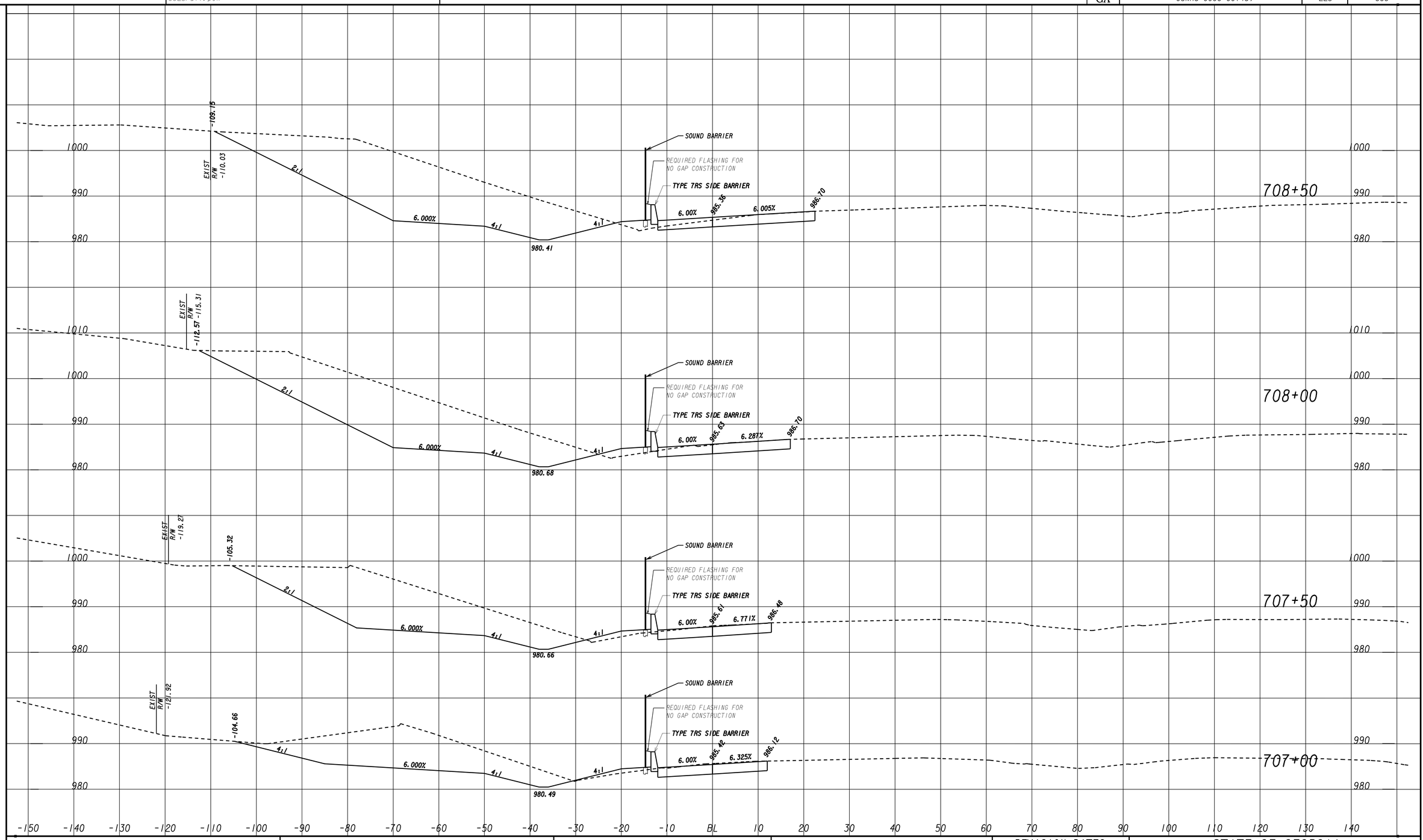
RAMP 'D'

DRAWING No. 23-033

3/1/2007 SUYSEW

06-DEC-2010 11:52	TIME###	006043XS053	Y:\Roadways\07400004\006043\DGN\006043XS05.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(43)	225	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

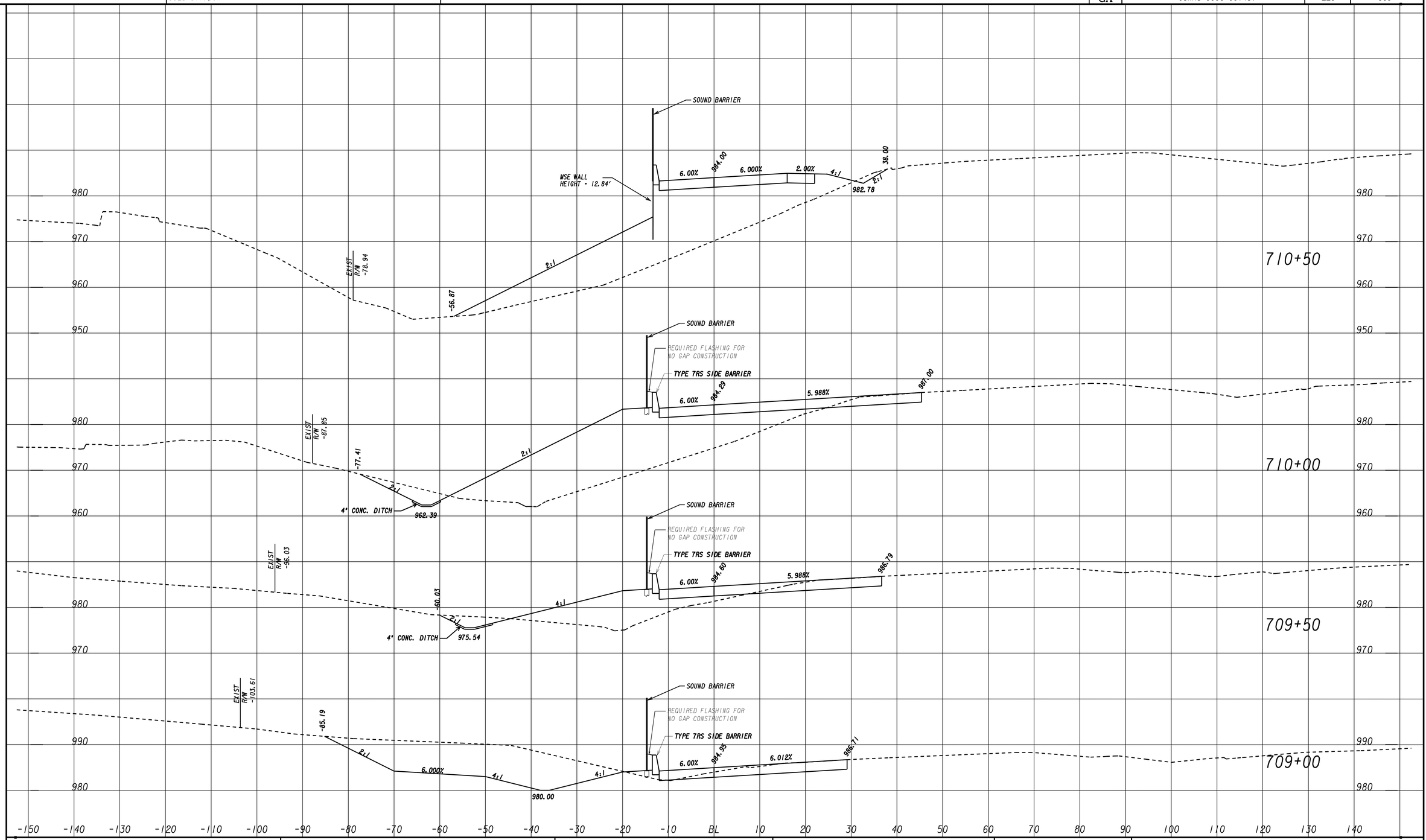
RAMP 'D'

DRAWING No. 23-034

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	226	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

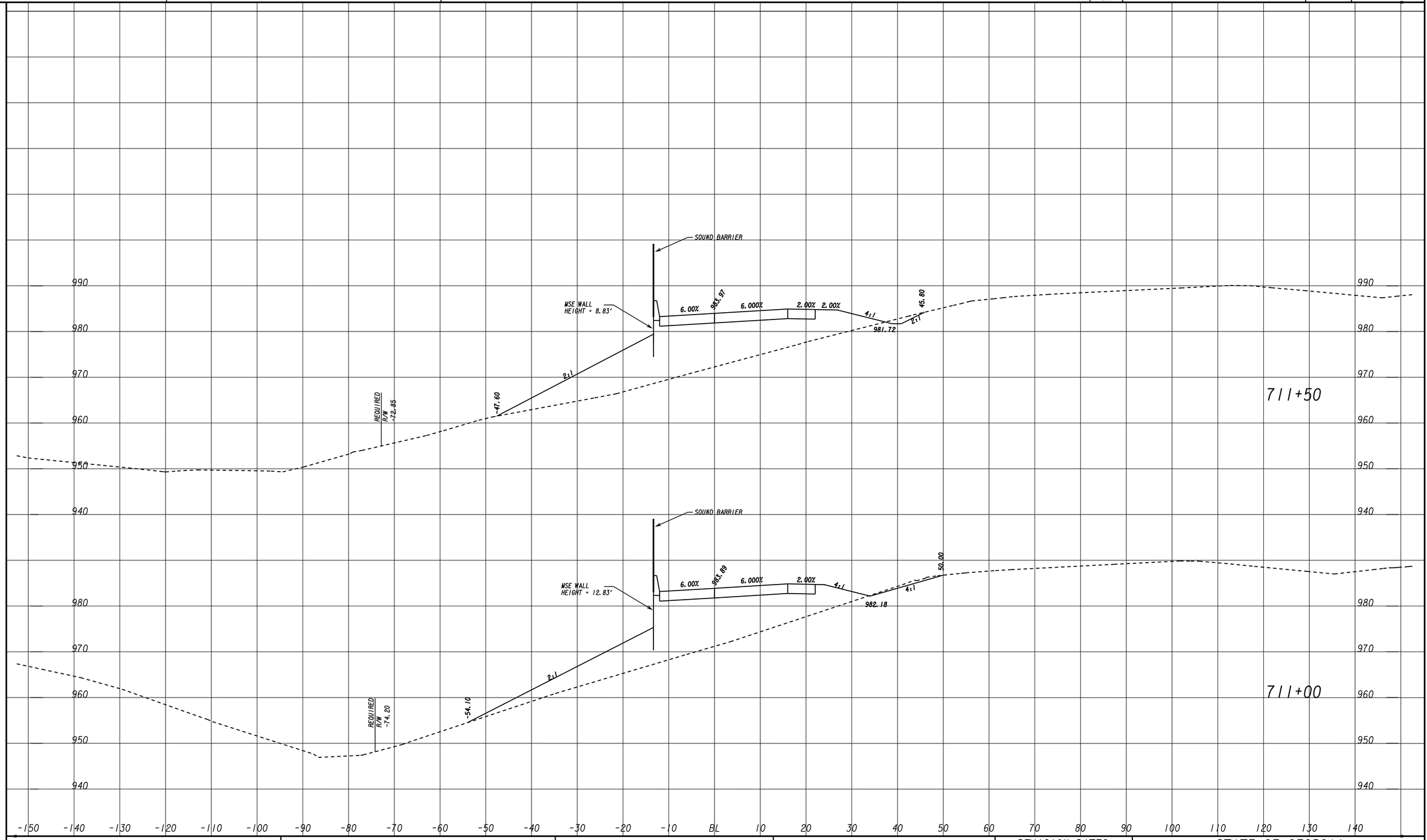
CROSS SECTIONS
RAMP 'D'

DRAWING No. 23-035

3/1/2007 SUKSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	227	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
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(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

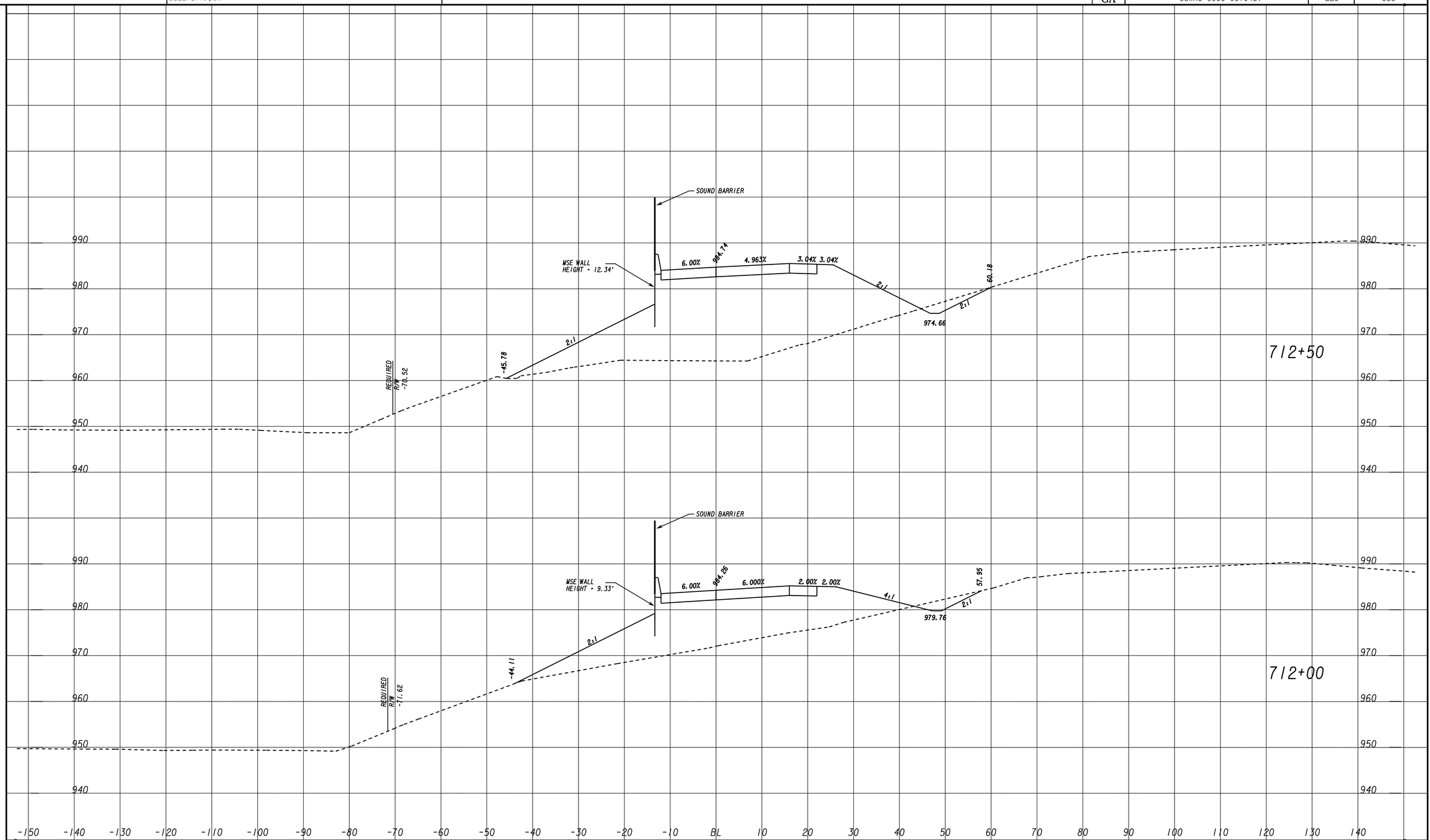
CROSS SECTIONS
RAMP 'D'

DRAWING No. 23-036

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	228	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

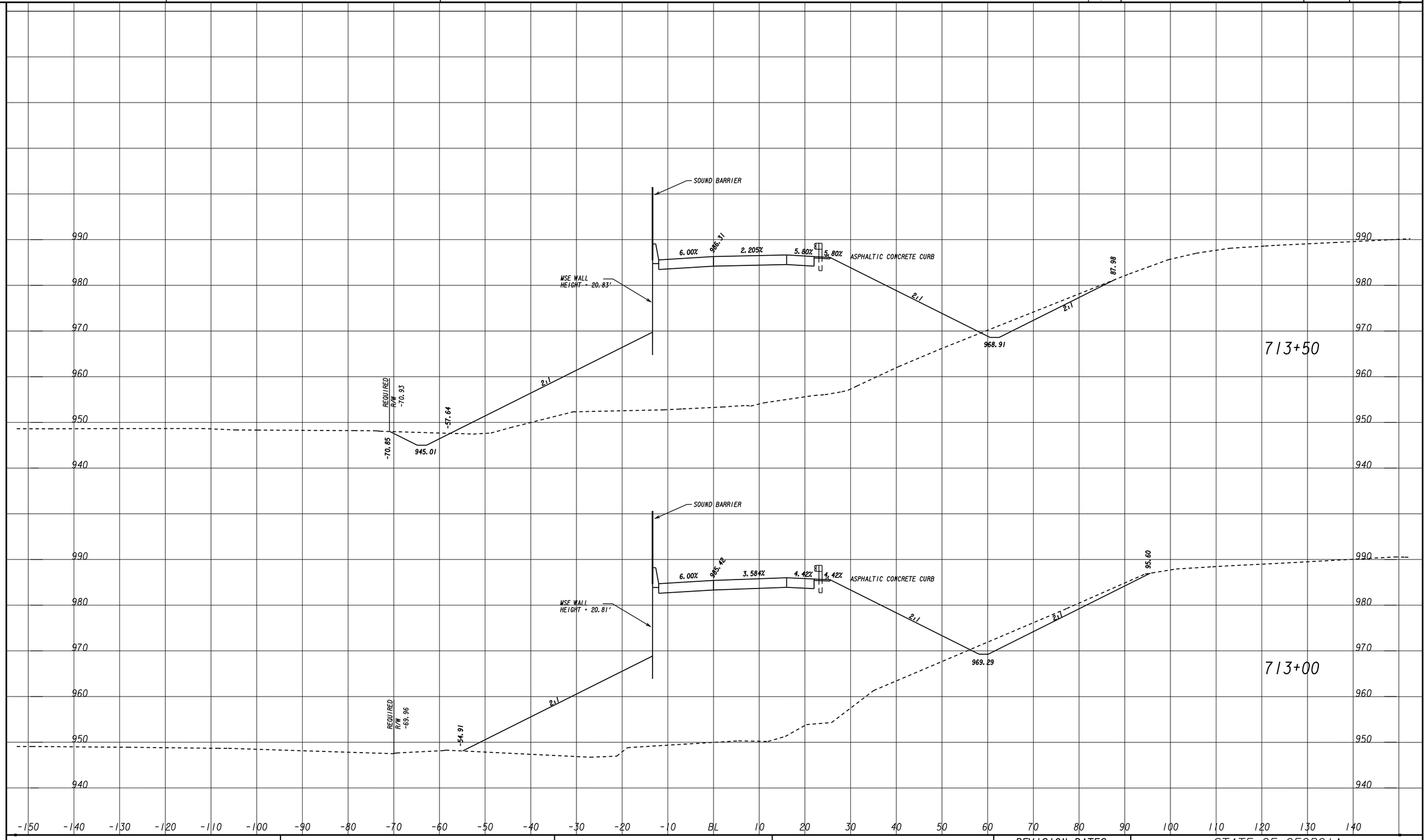
CROSS SECTIONS
RAMP 'D'

DRAWING No. 23-037

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	229	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

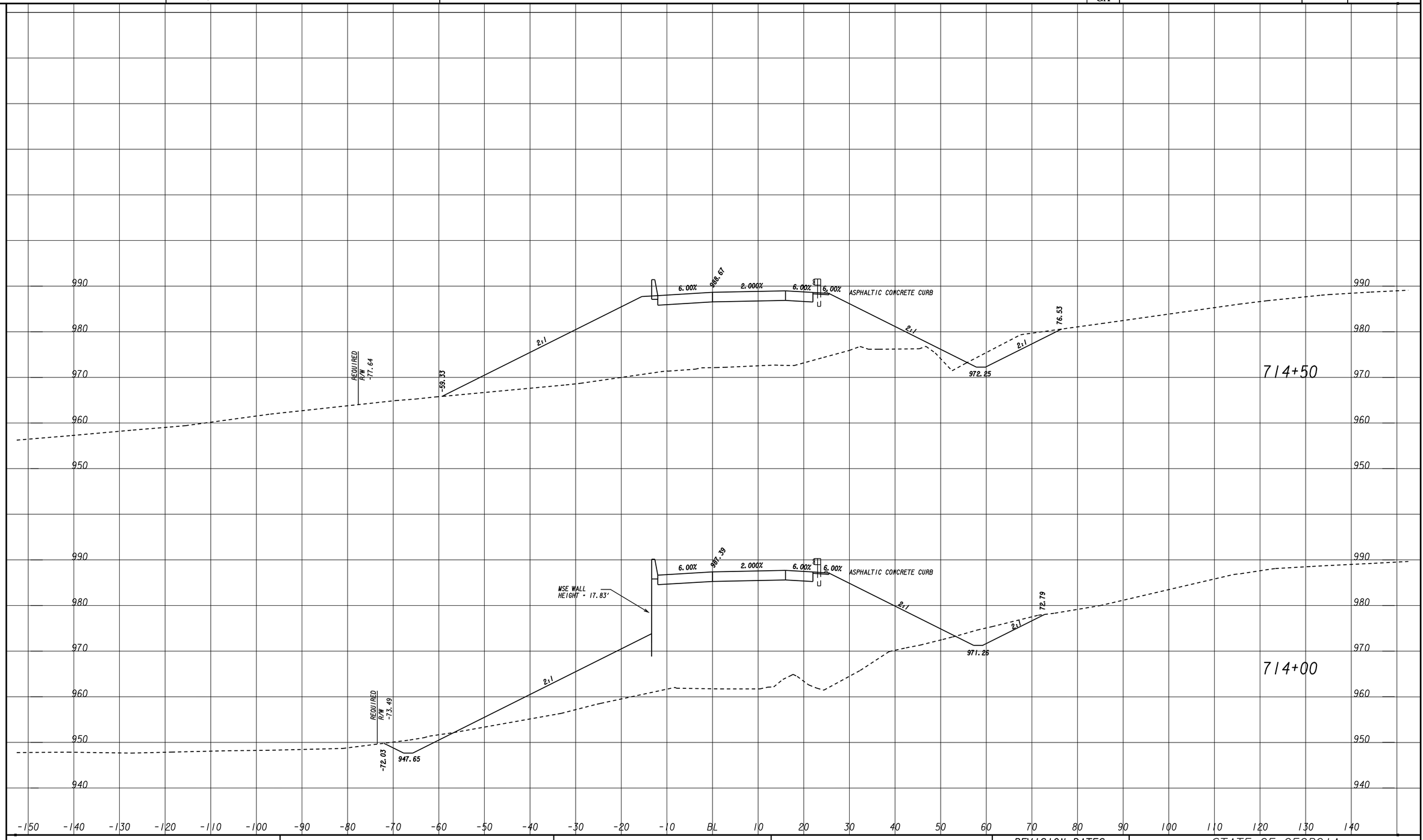
CROSS SECTIONS
RAMP 'D'

DRAWING No. 23-038

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	230	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

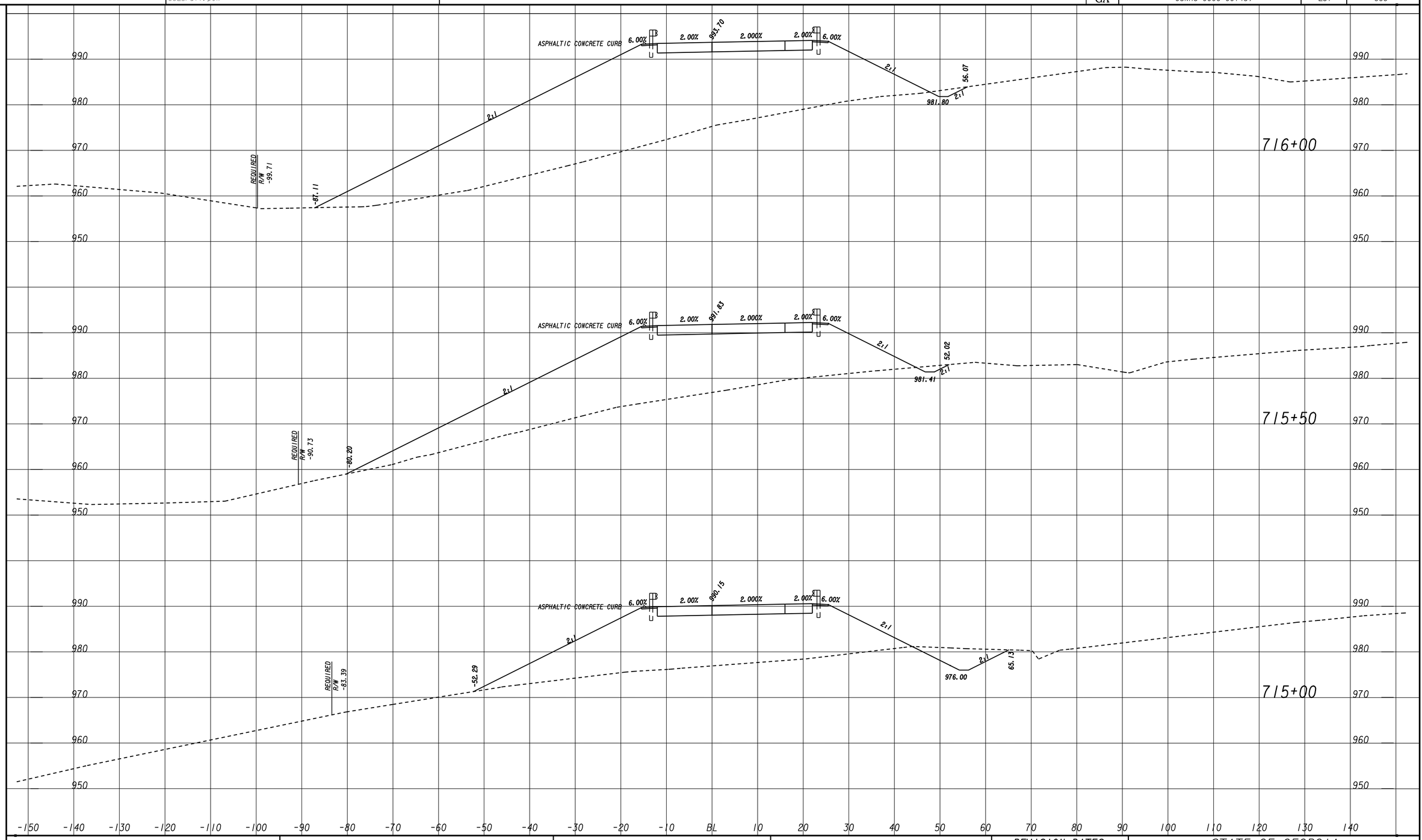
RAMP 'D'

DRAWING No. 23-039

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	231	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

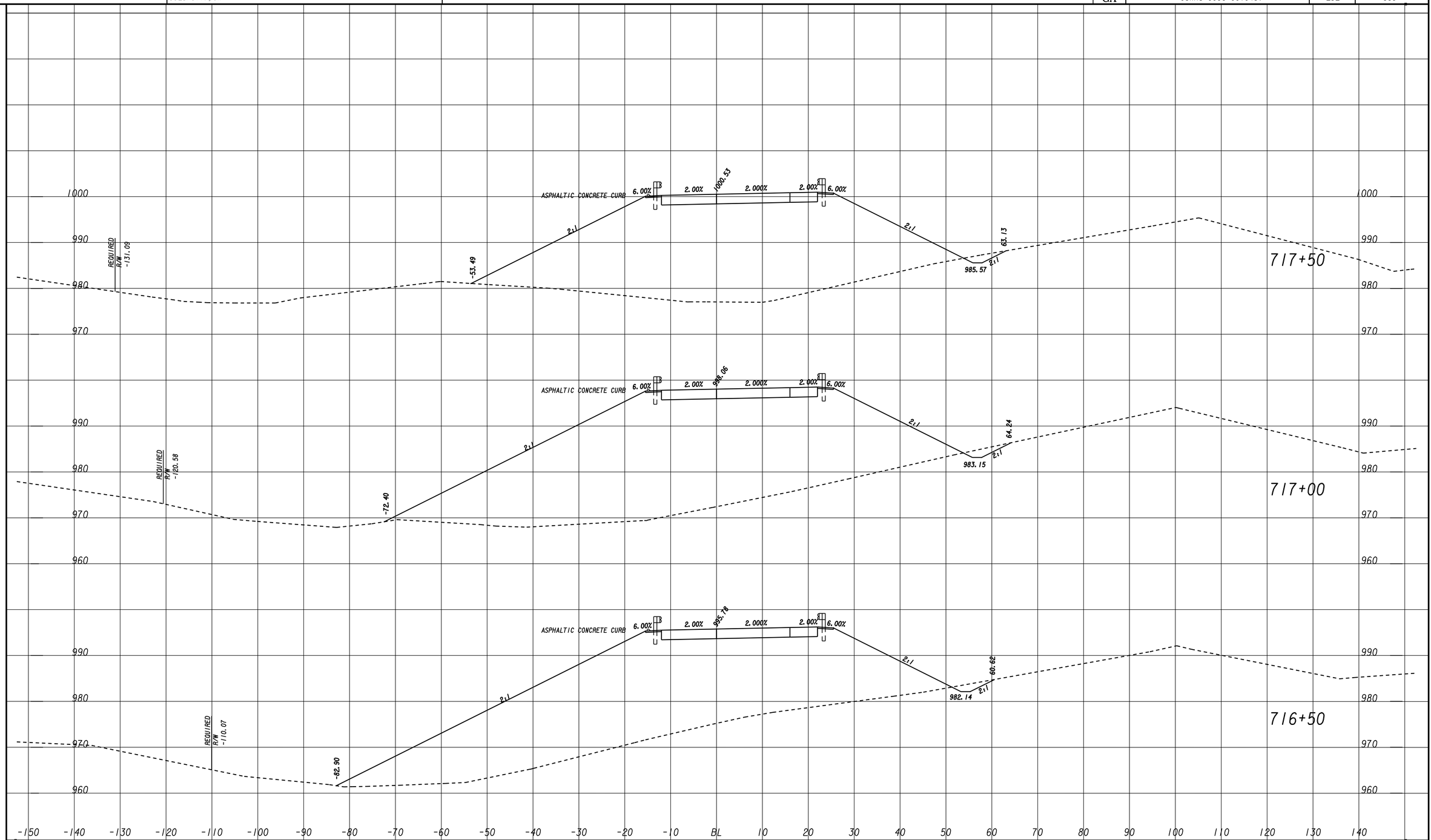
CROSS SECTIONS
RAMP 'D'

DRAWING No. 23-040

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	232	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

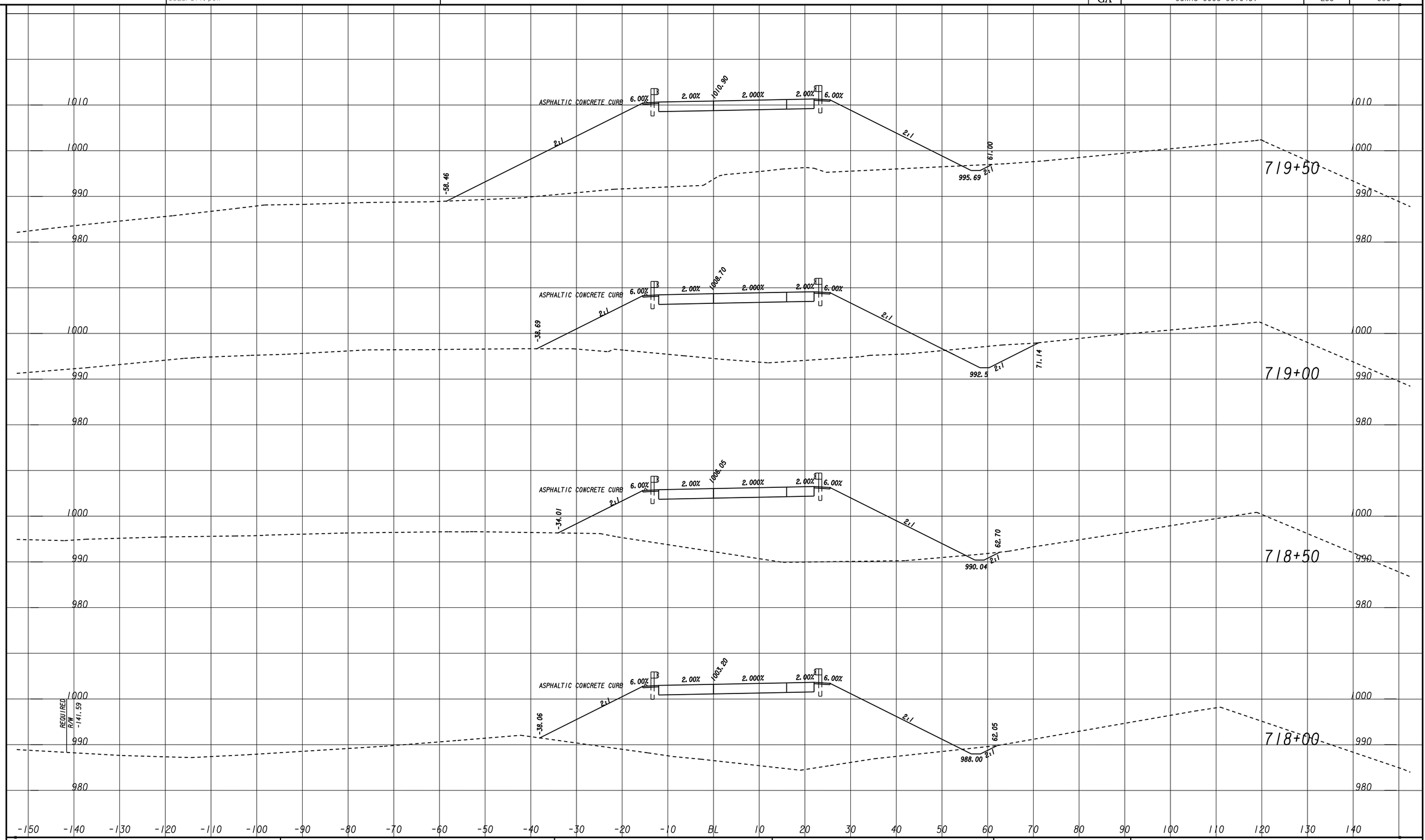
RAMP 'D'

DRAWING No. 23-041

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	233	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

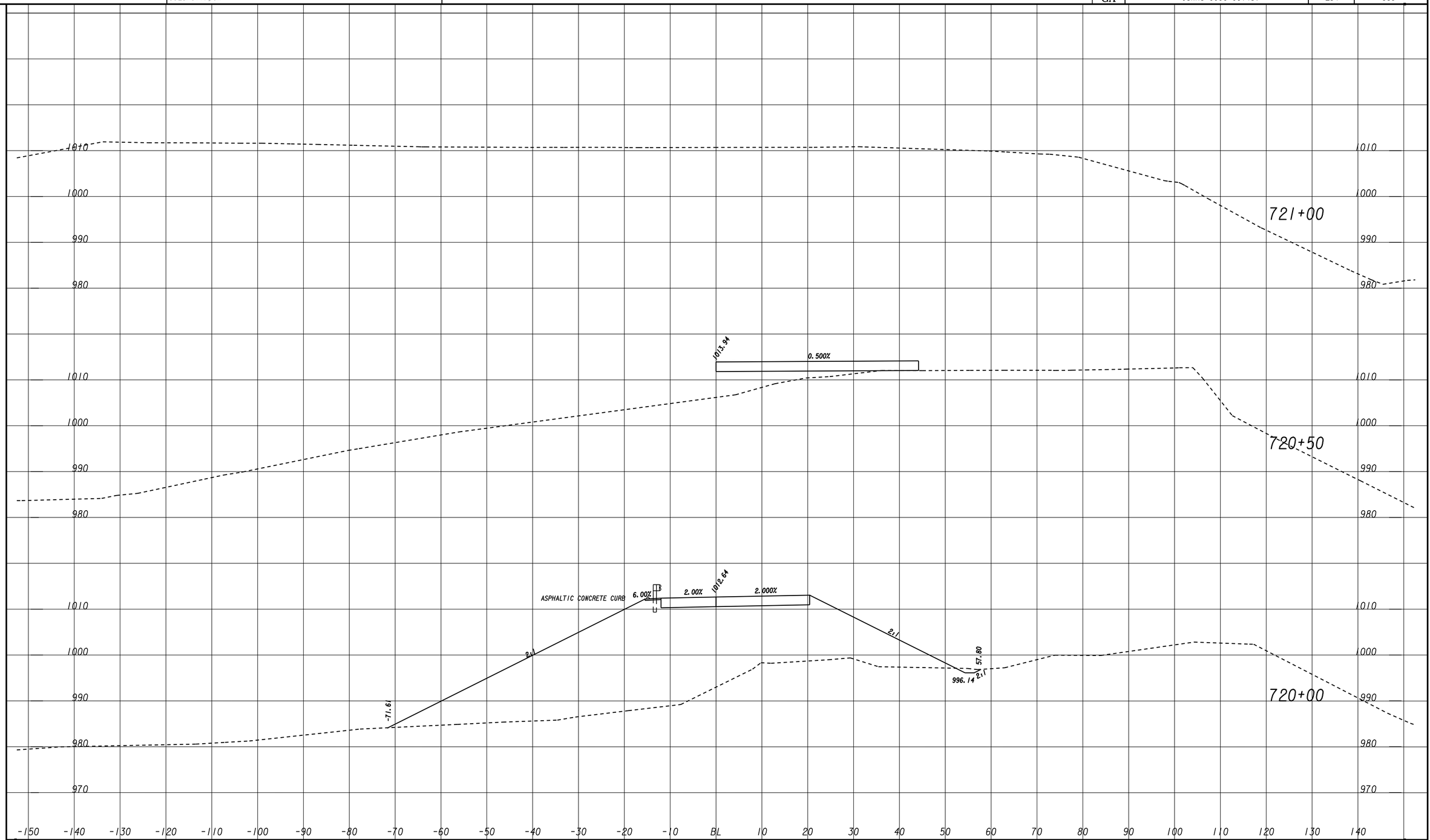
CROSS SECTIONS
RAMP 'D'

DRAWING No. 23-042

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	234	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

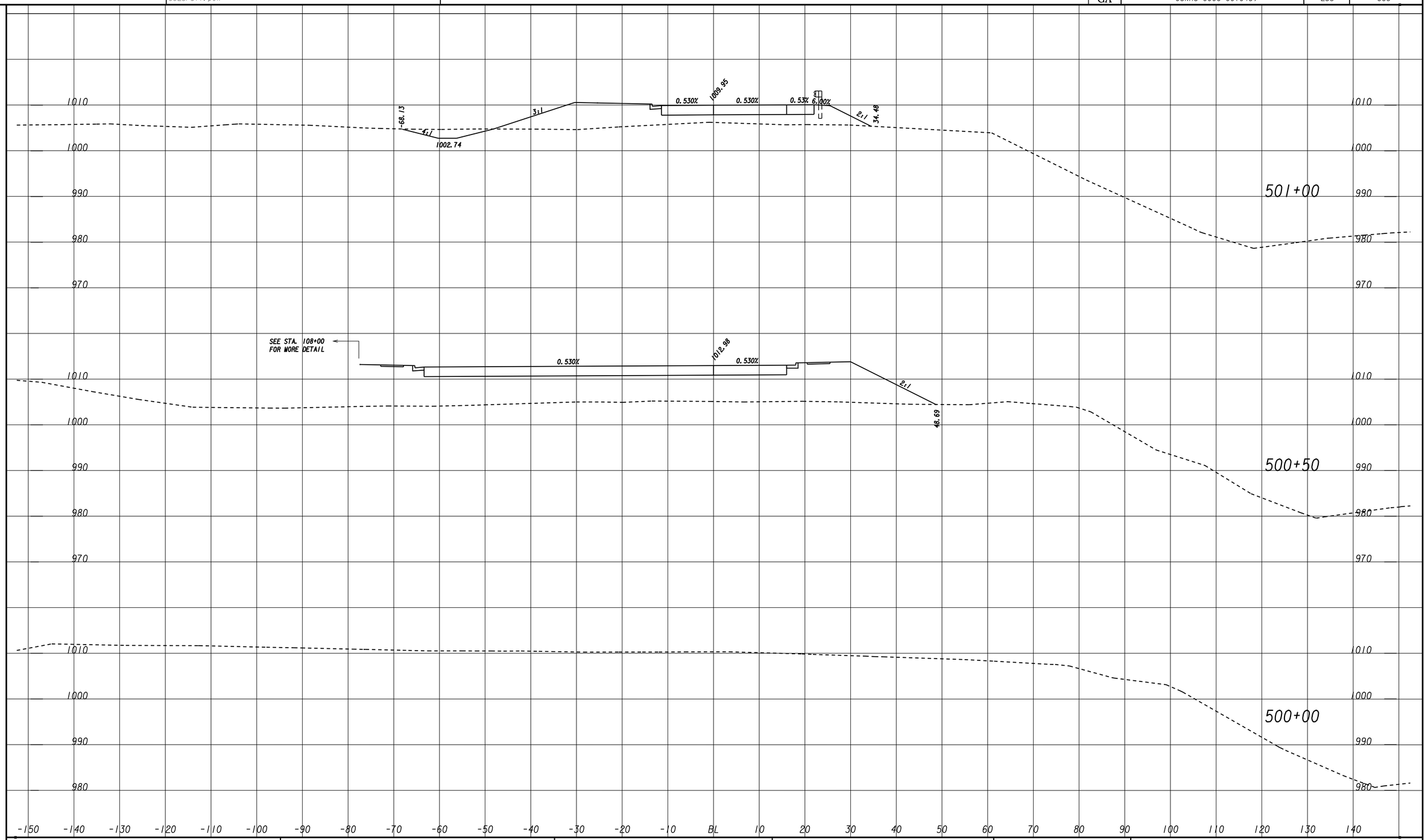
CROSS SECTIONS

RAMP 'D'

DRAWING No. 23-043

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

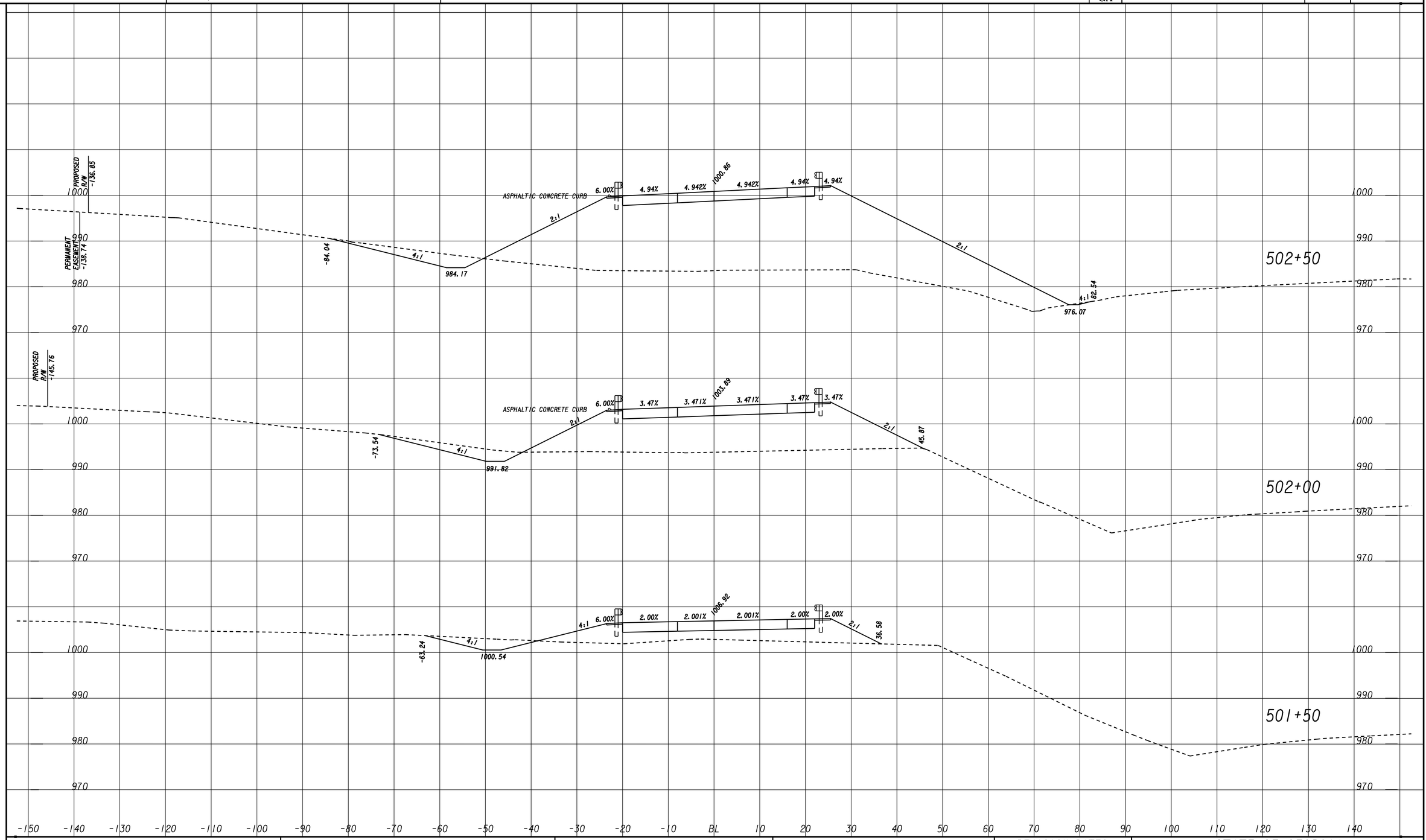
CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-044

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

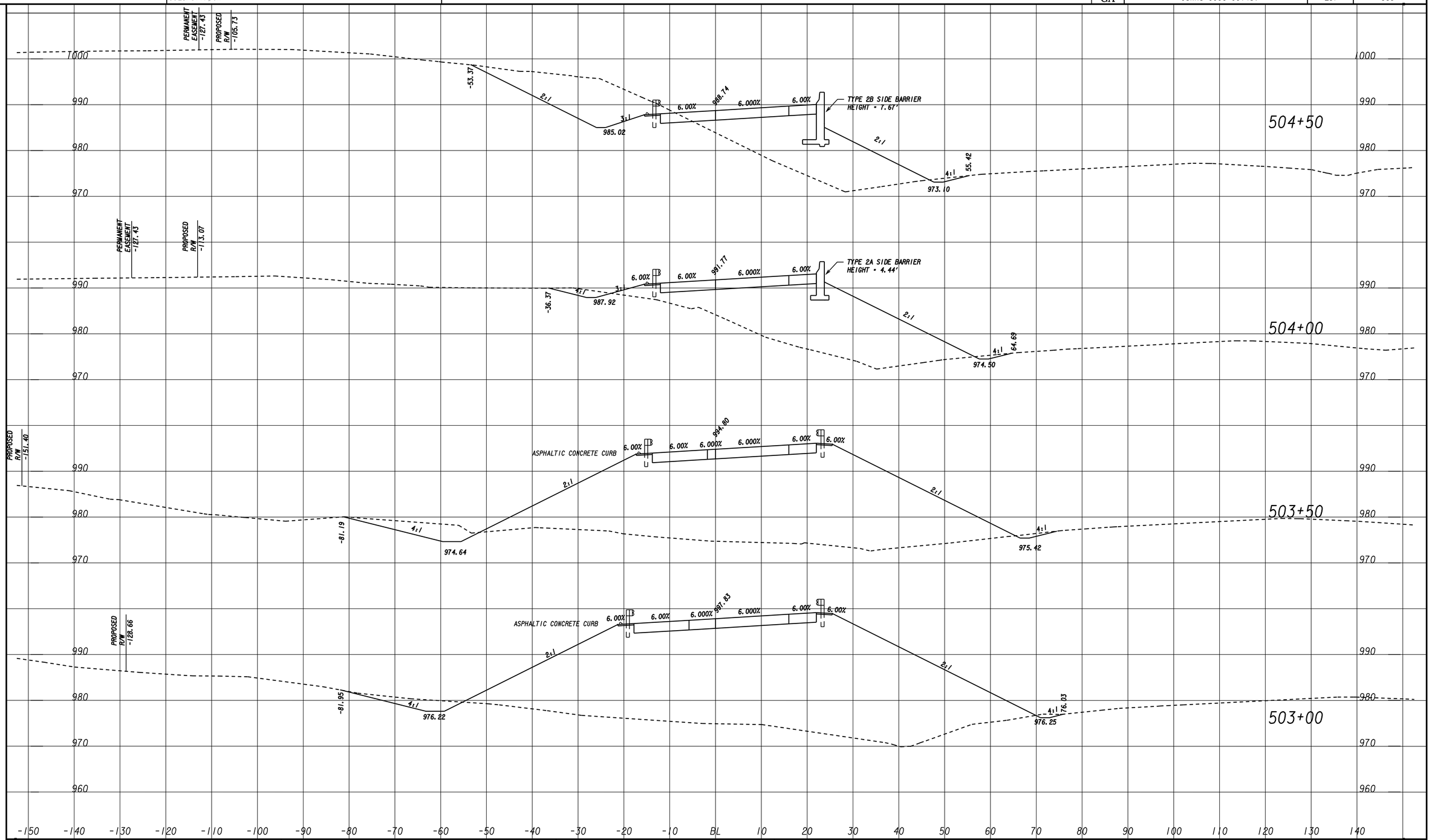
CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-045

3//2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-046

3/1/2007 SUXSEW

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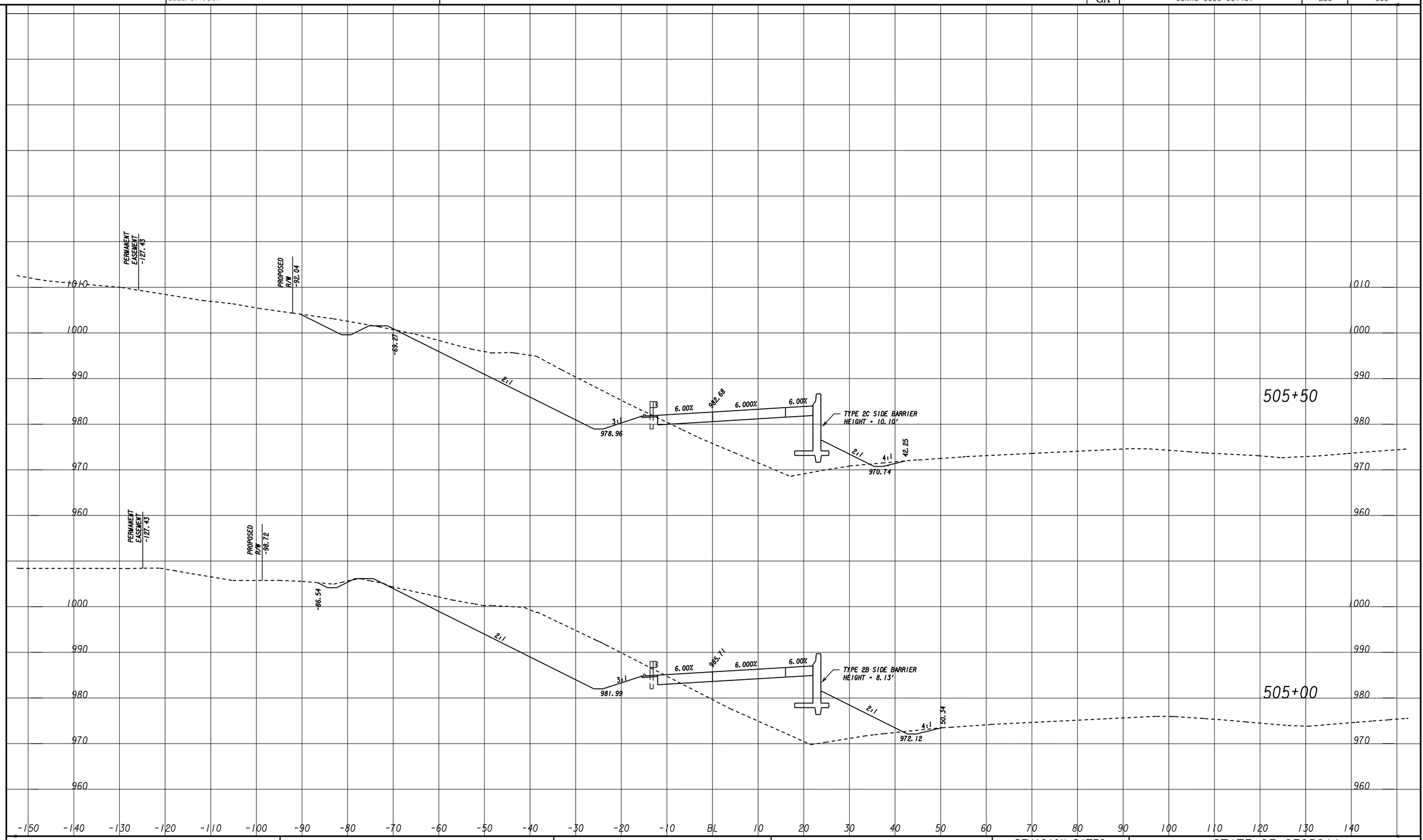

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STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

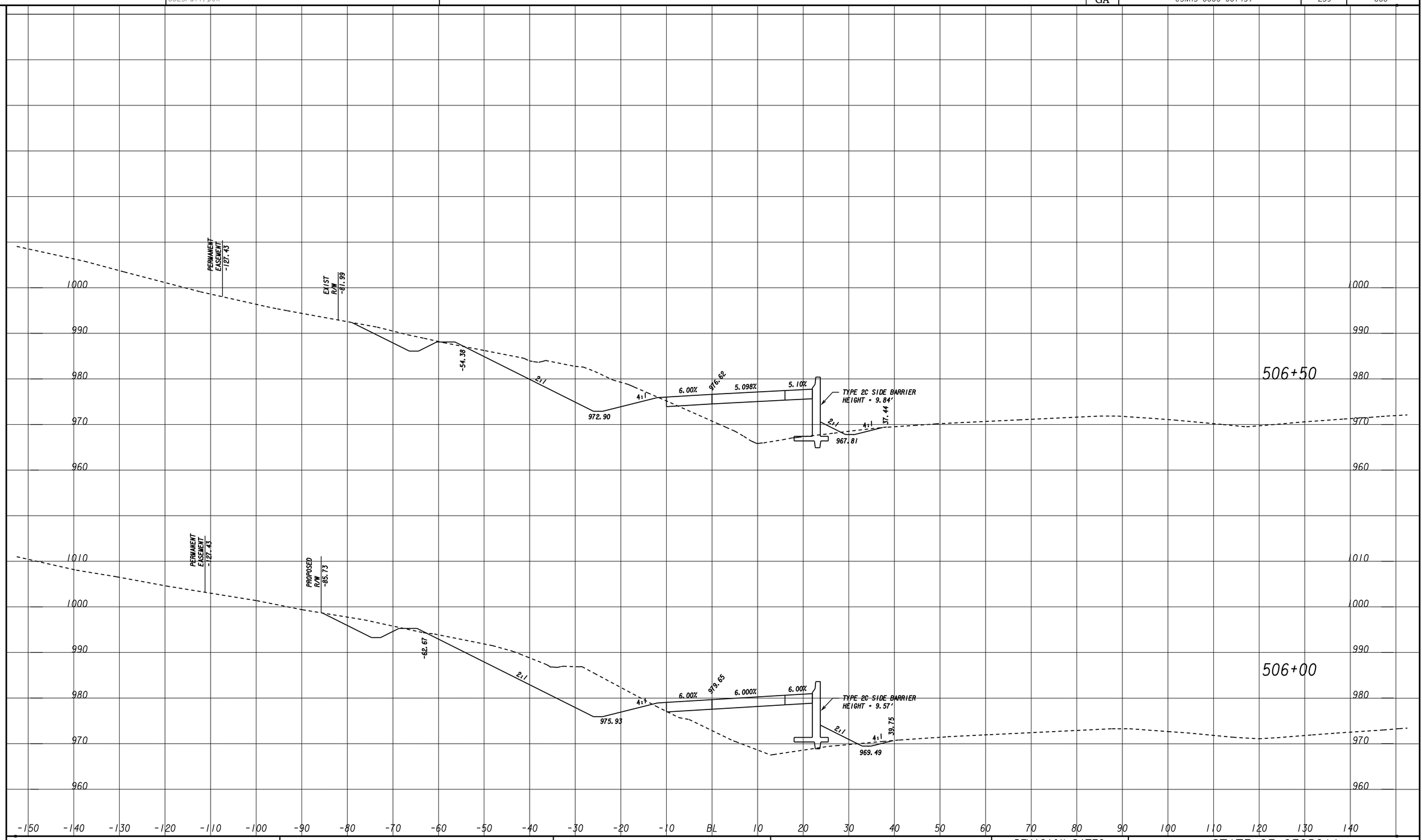
RAMP 'C'

DRAWING No. 23-047

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	239	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-048

3/1/2007 SUXSEW

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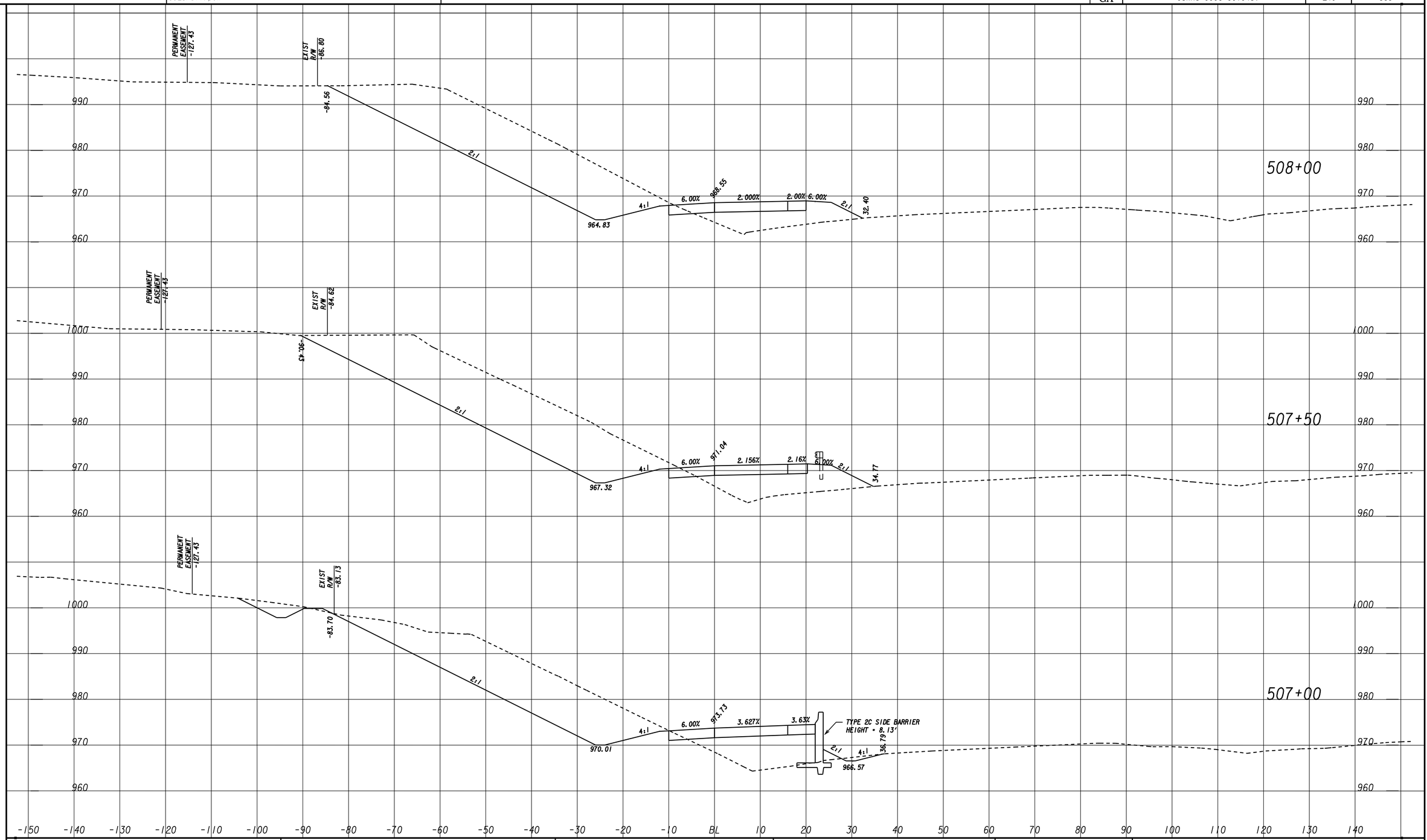

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SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-049

3/1/2007 SUXSEW

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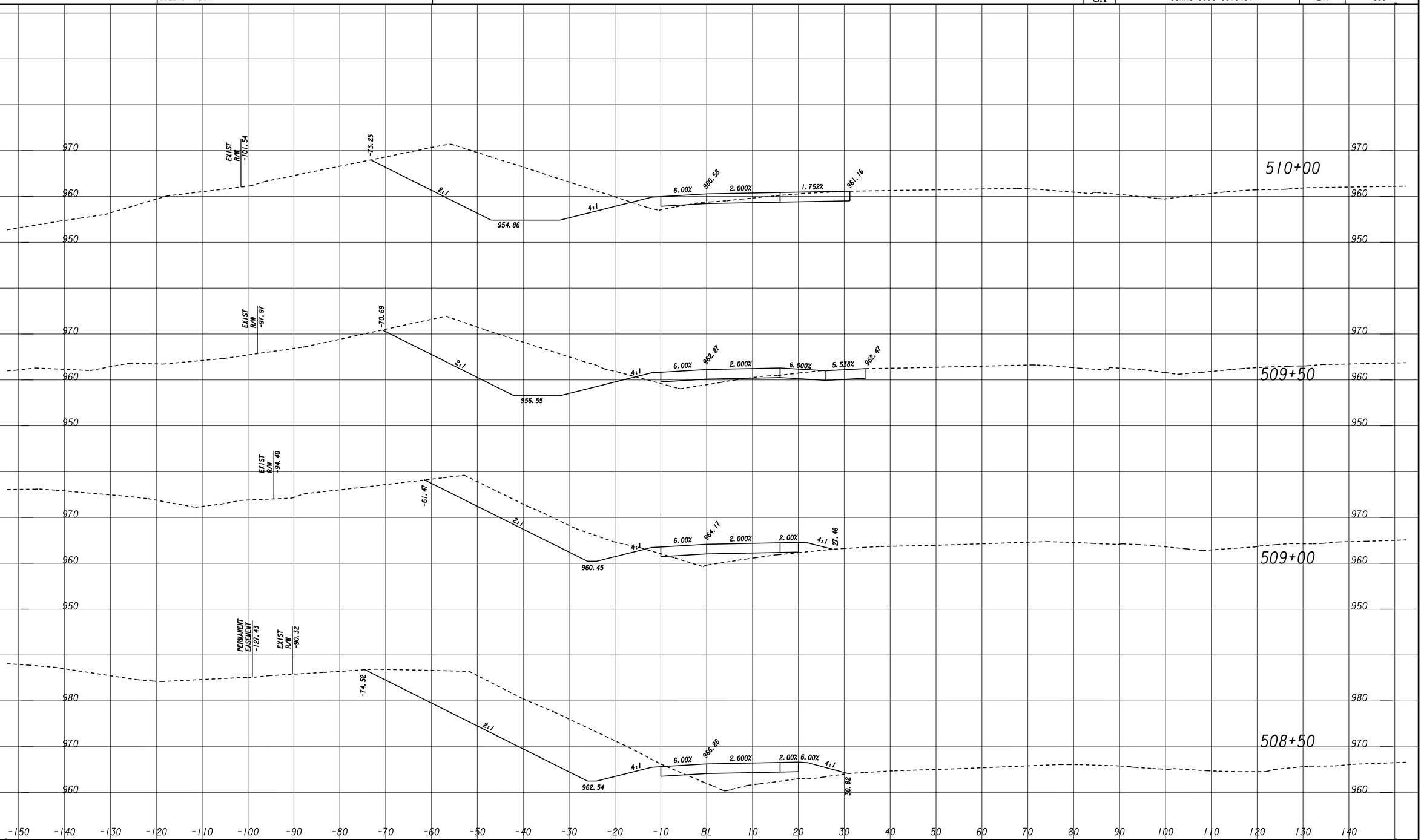

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SCALE 1 inch = 10 feet Horiz.

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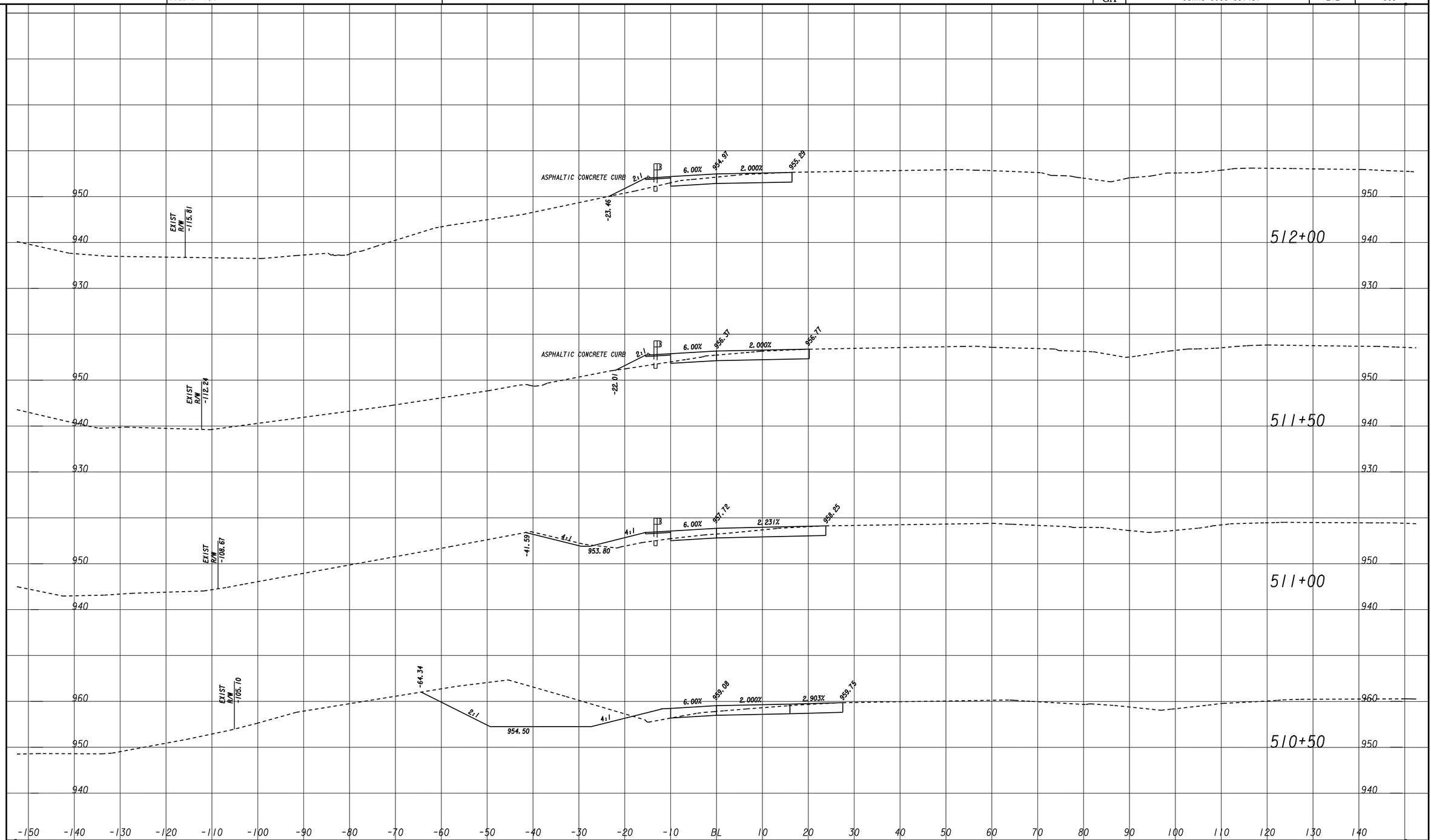
CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-050

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	242	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

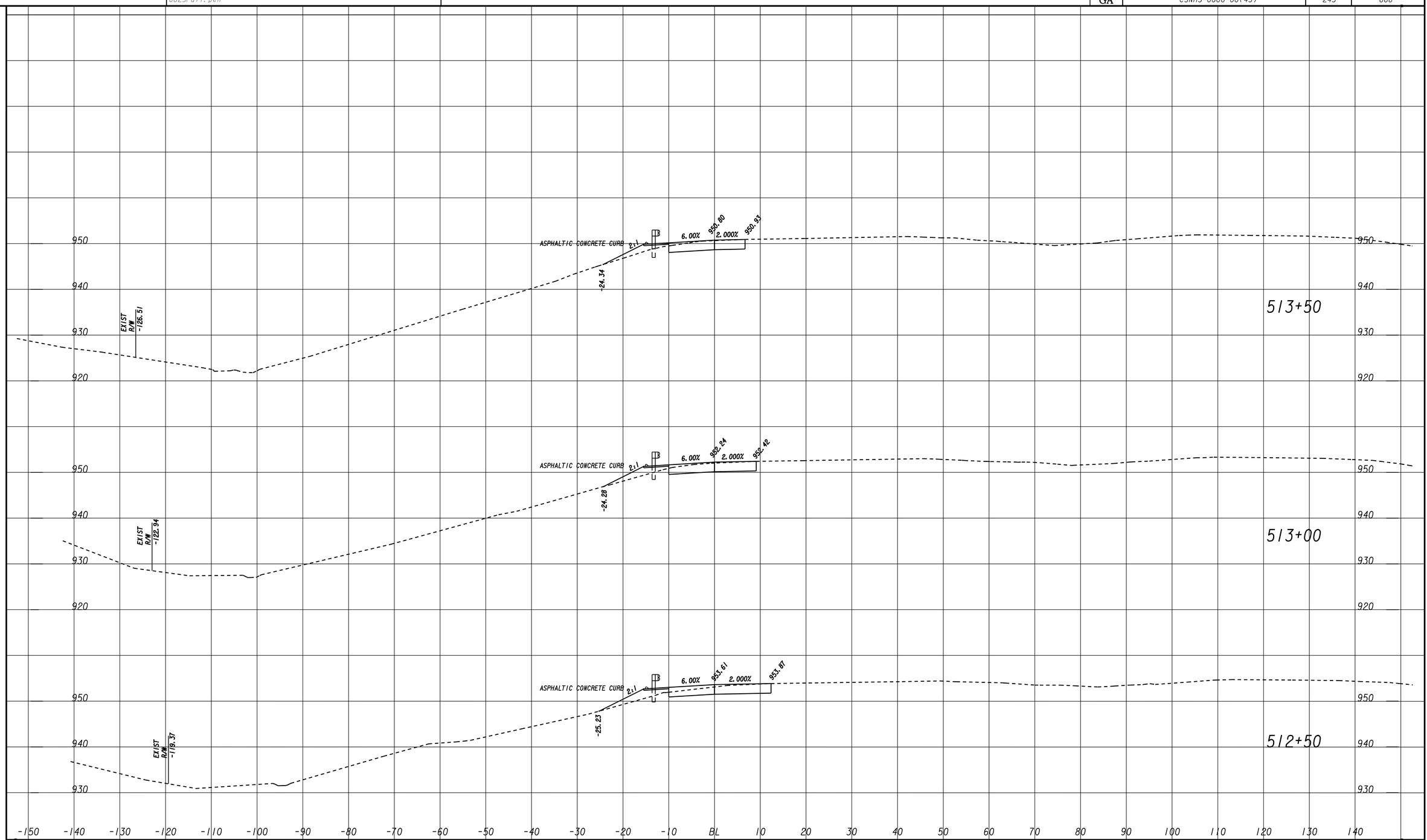
RAMP 'C'

DRAWING No. 23-051

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	243	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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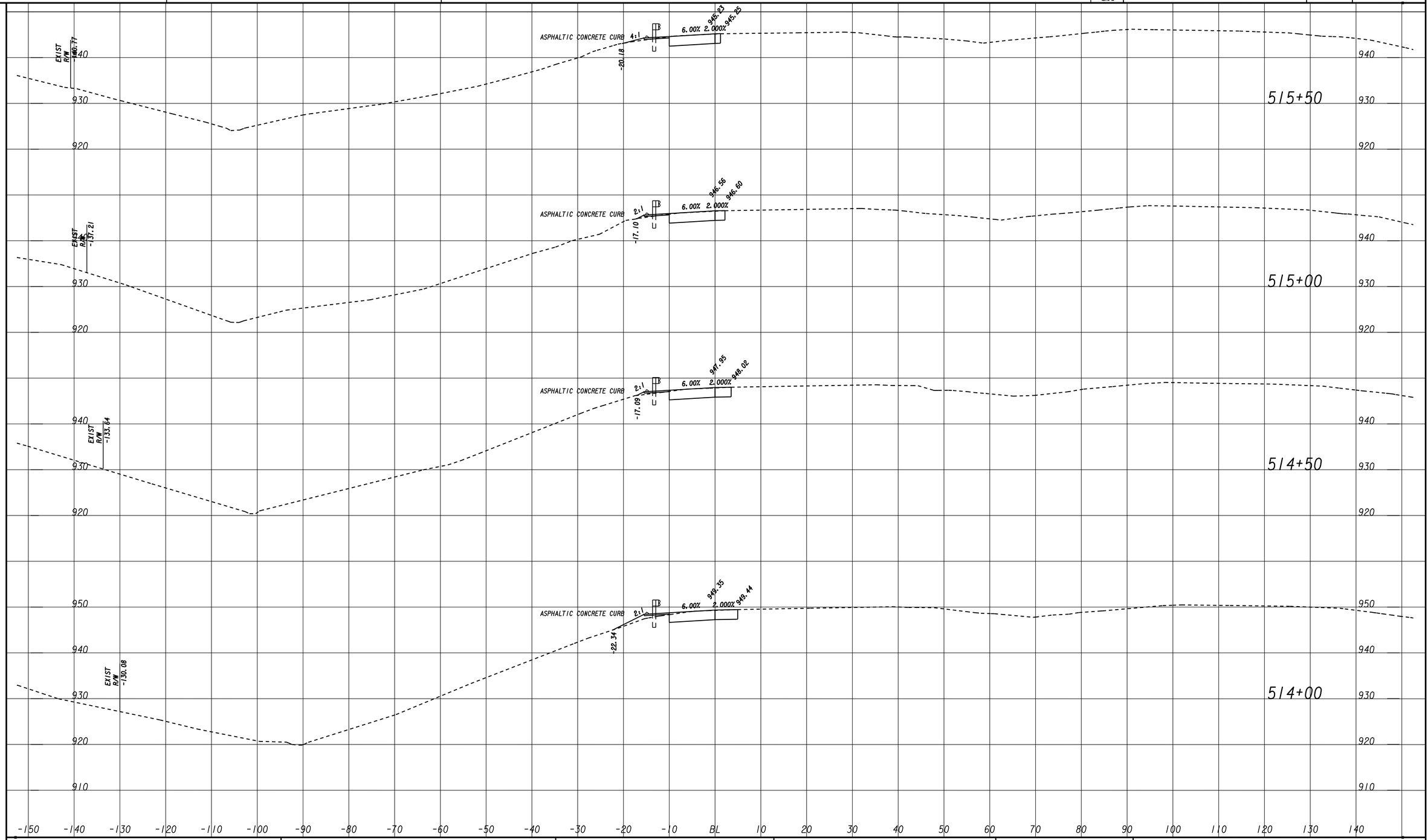
CROSS SECTIONS

RAMP 'C'

DRAWING No. 23-052

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

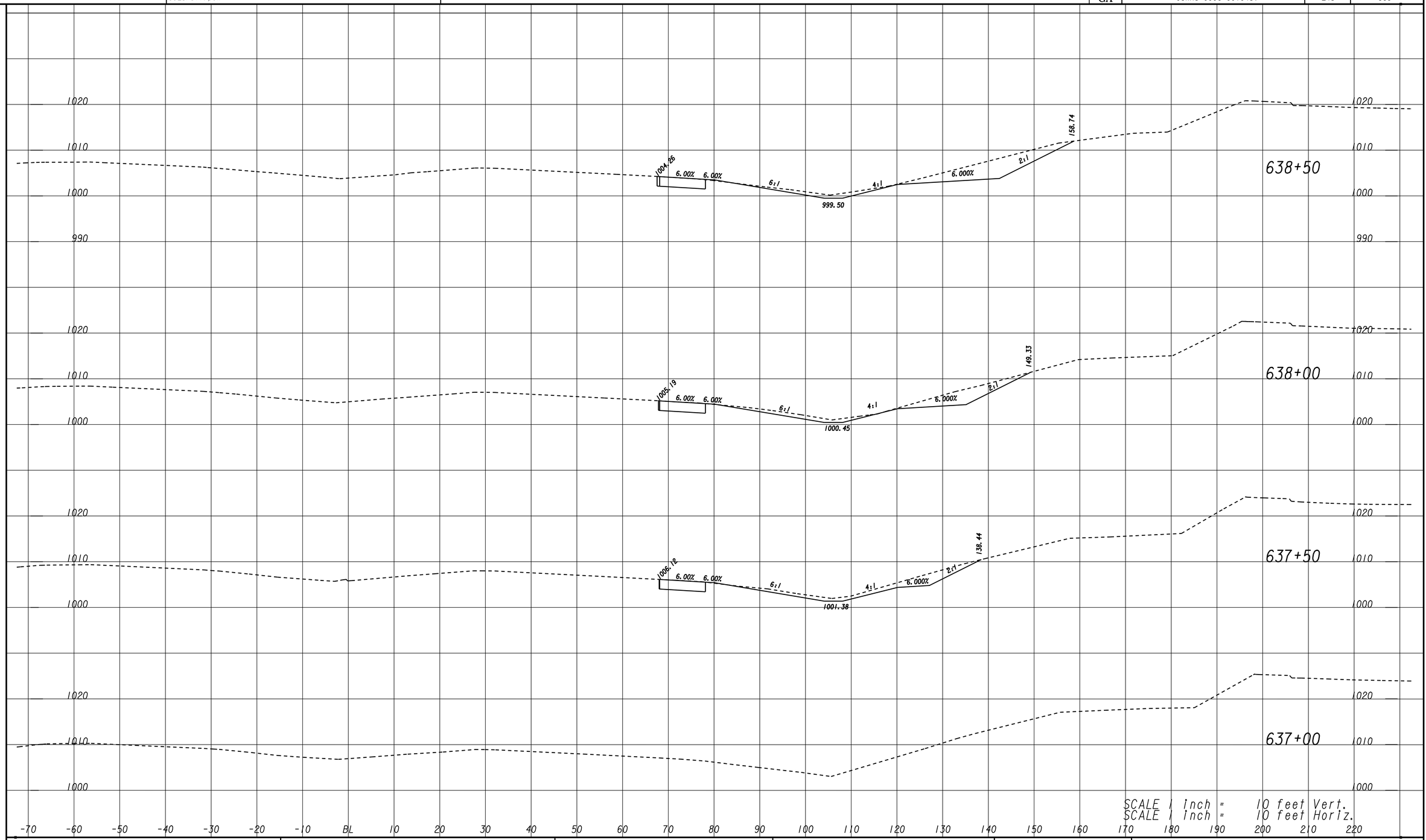
RAMP 'C'

DRAWING No. 23-053

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	245	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

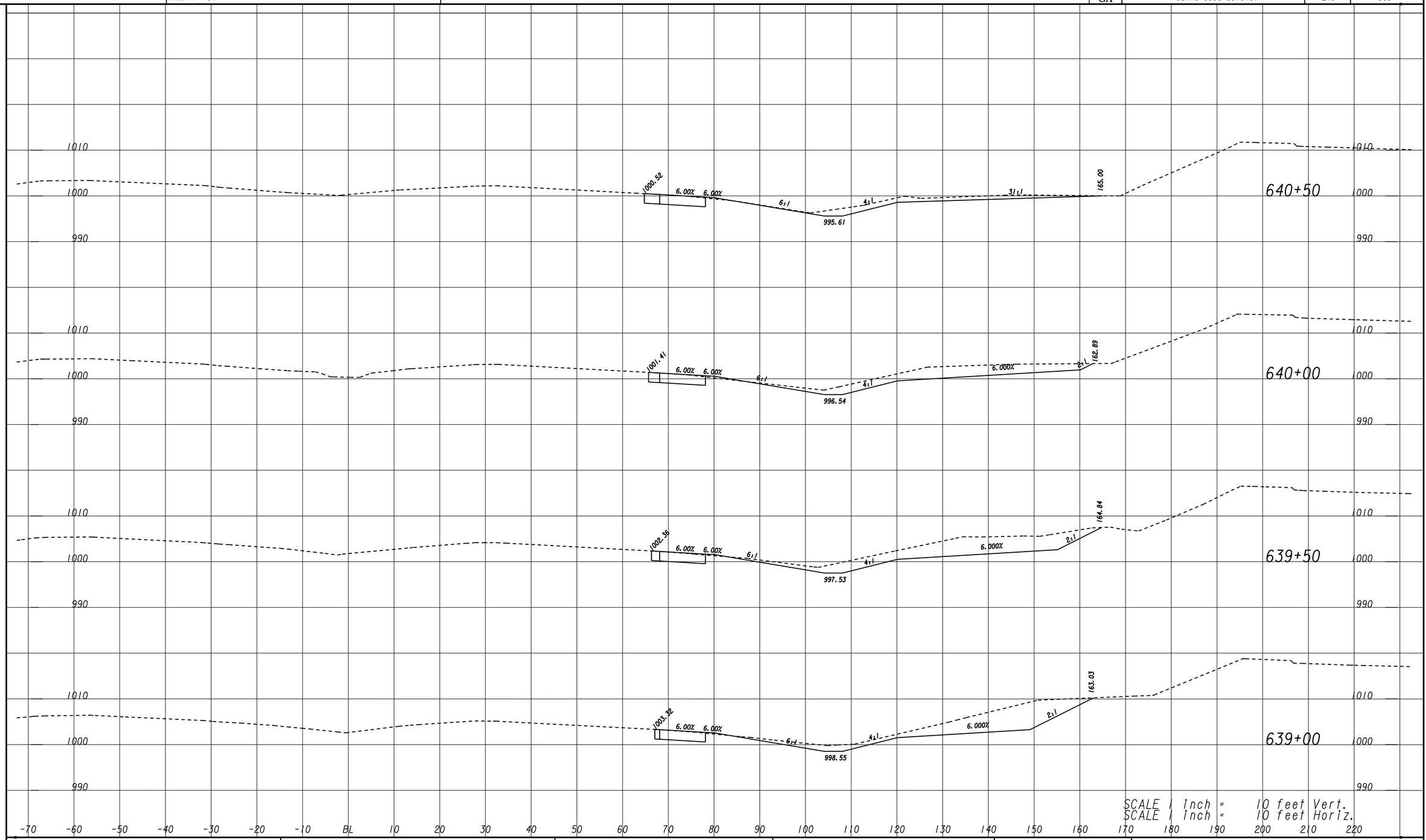
I-575 NORTHBOUND

DRAWING No. 23-054

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	246	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

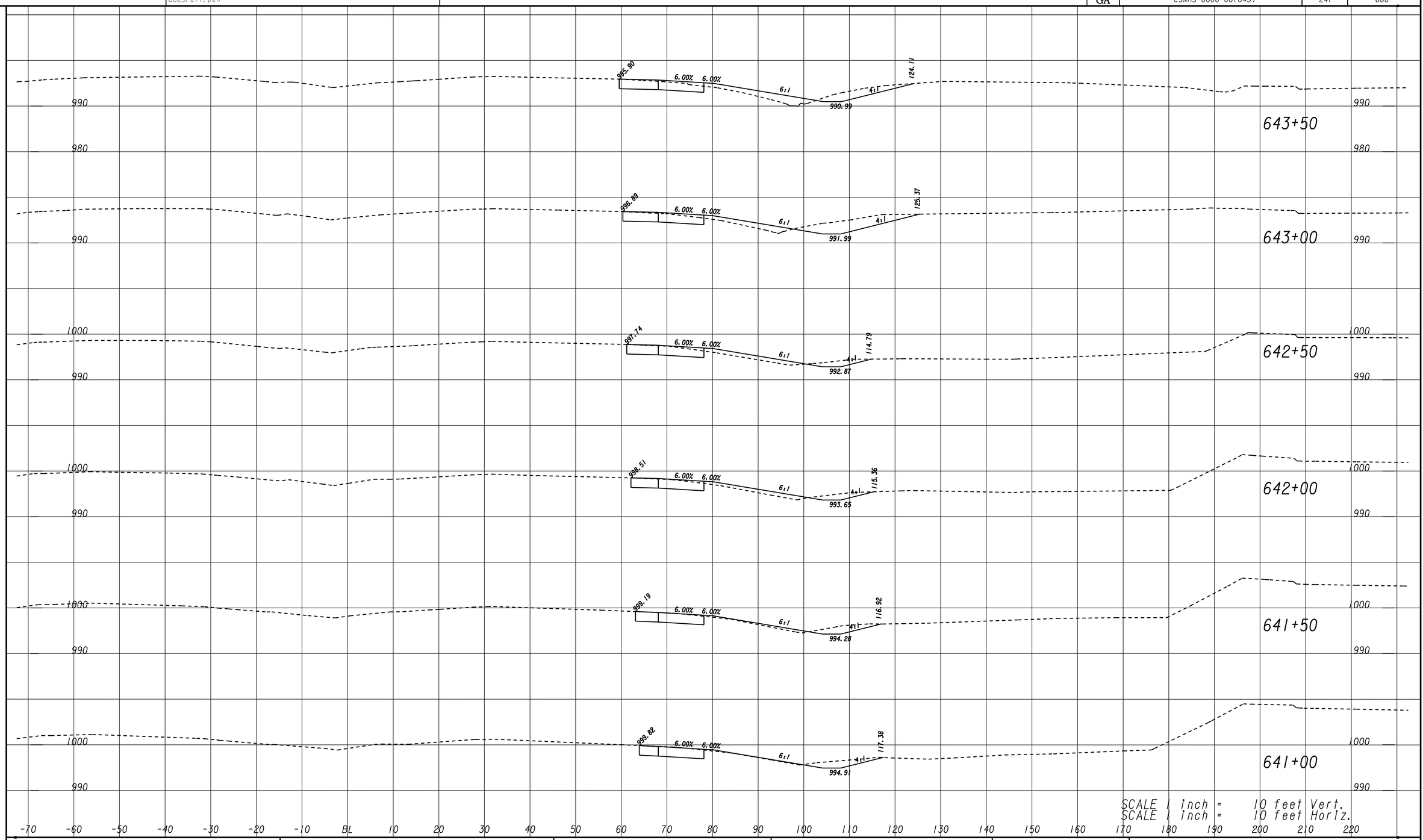
I-575 NORTHBOUND

DRAWING No. 23-055

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	247	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

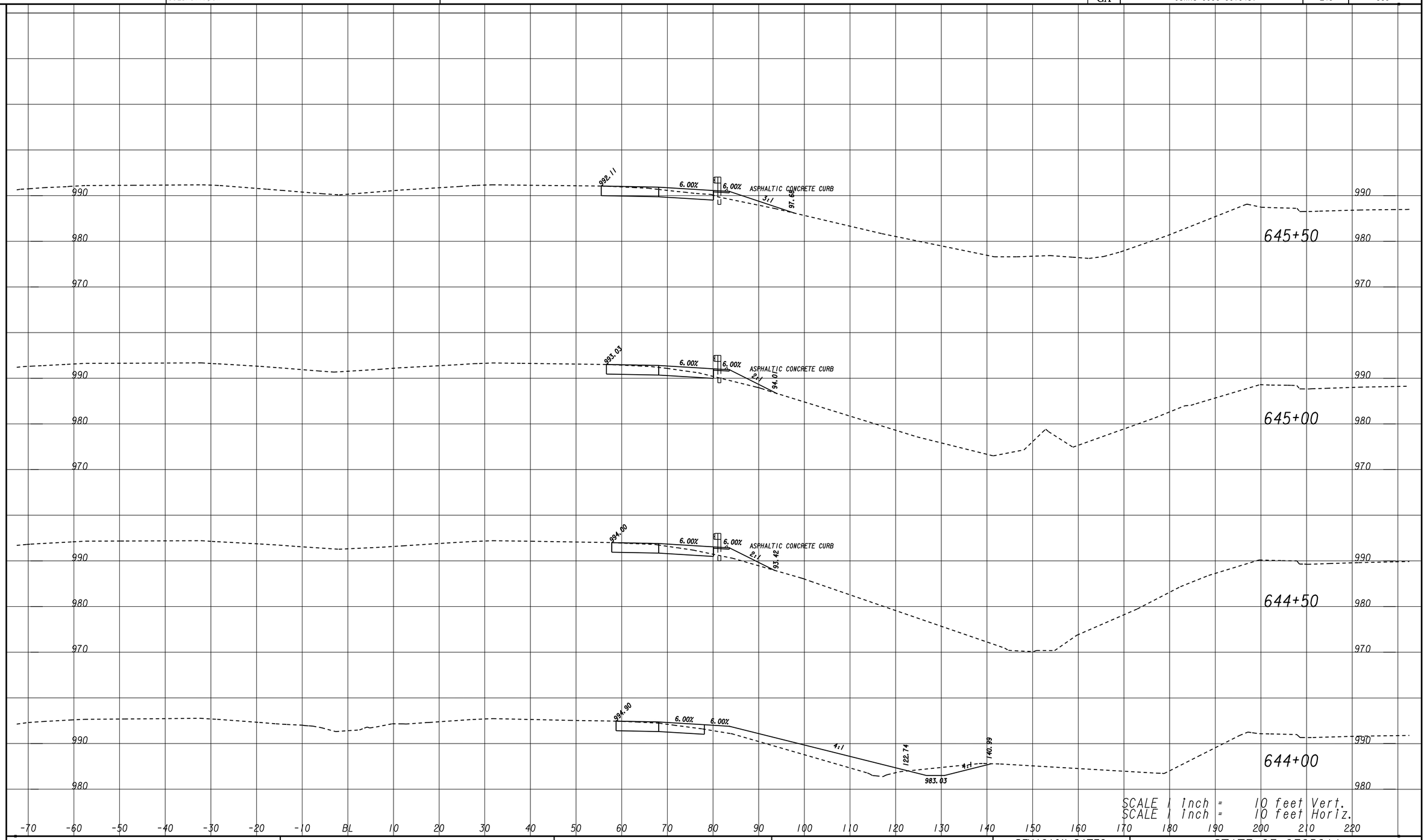
I-575 NORTHBOUND

DRAWING No. 23-056

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	248	668

RELEASED FOR CONSTRUCTION 12/02/10



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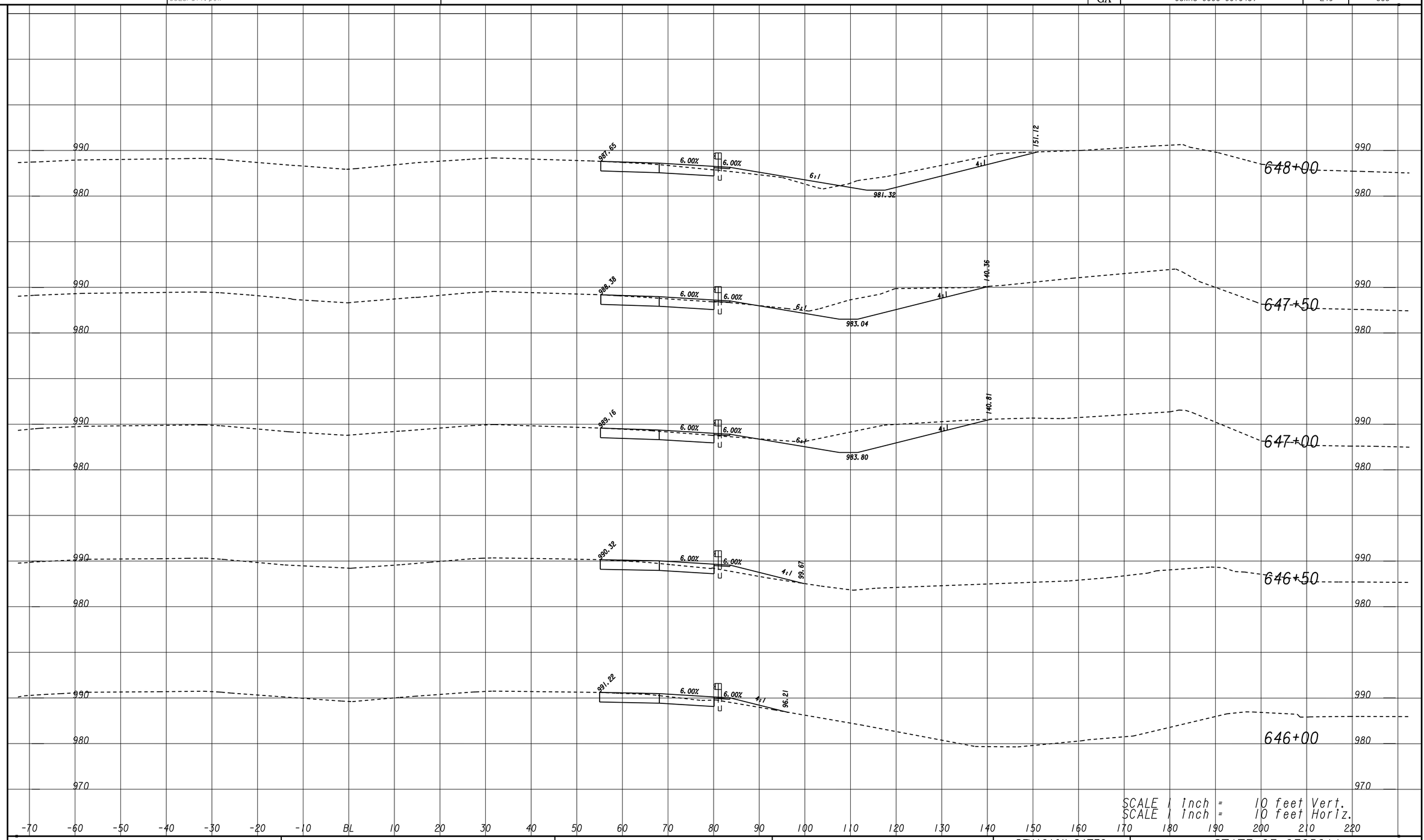
CROSS SECTIONS

I-575 NORTHBOUND

DRAWING No. 23-057

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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SCALE 1 inch = 10 feet Vert.
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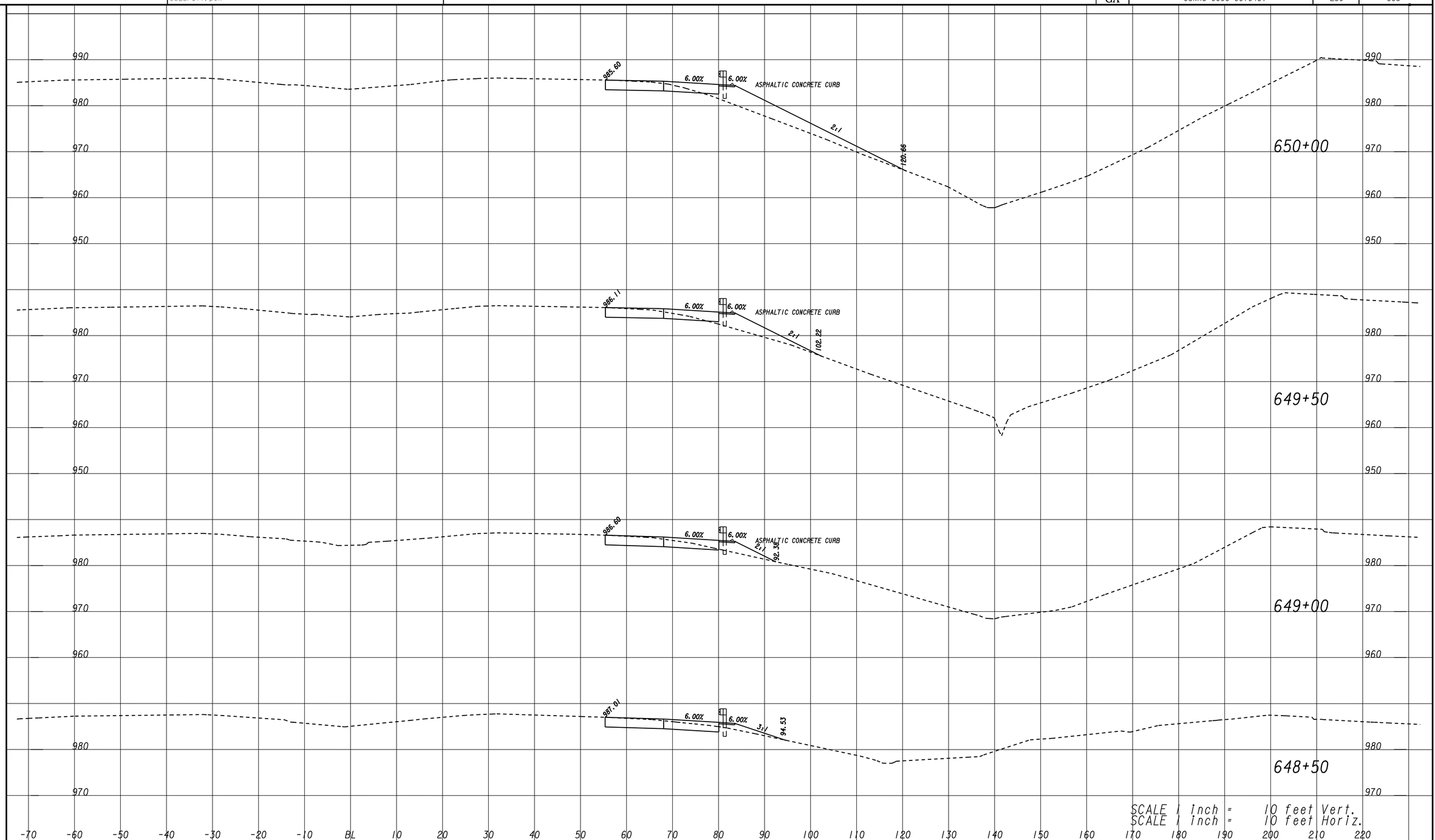
CROSS SECTIONS

I-575 NORTHBOUND

DRAWING No. 23-058

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	250	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
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SCALE 1 inch = 10 feet Horiz.

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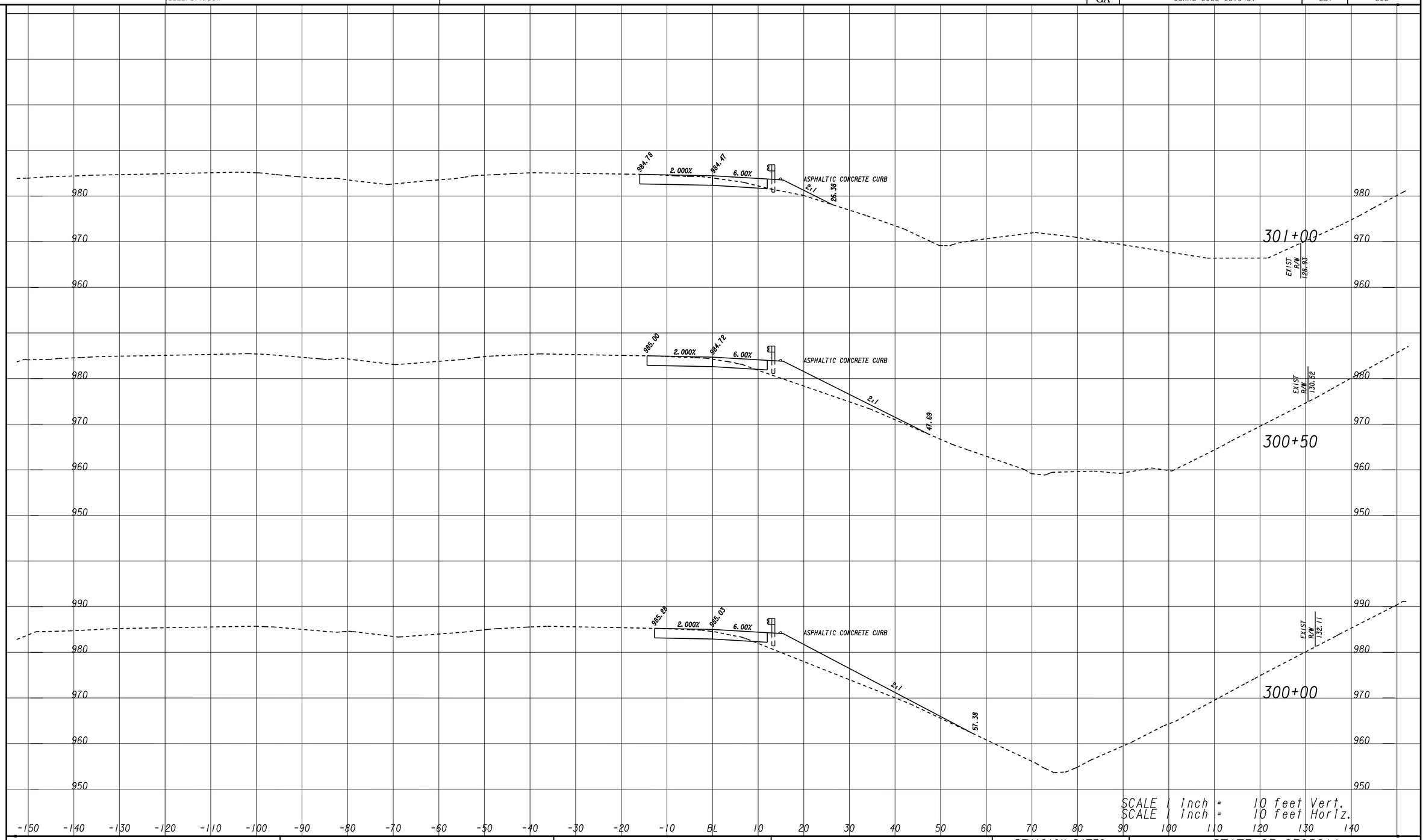
CROSS SECTIONS

I-575 NORTHBOUND

DRAWING No. 23-059

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-060

3/1/2007 SUXSEW

JParks

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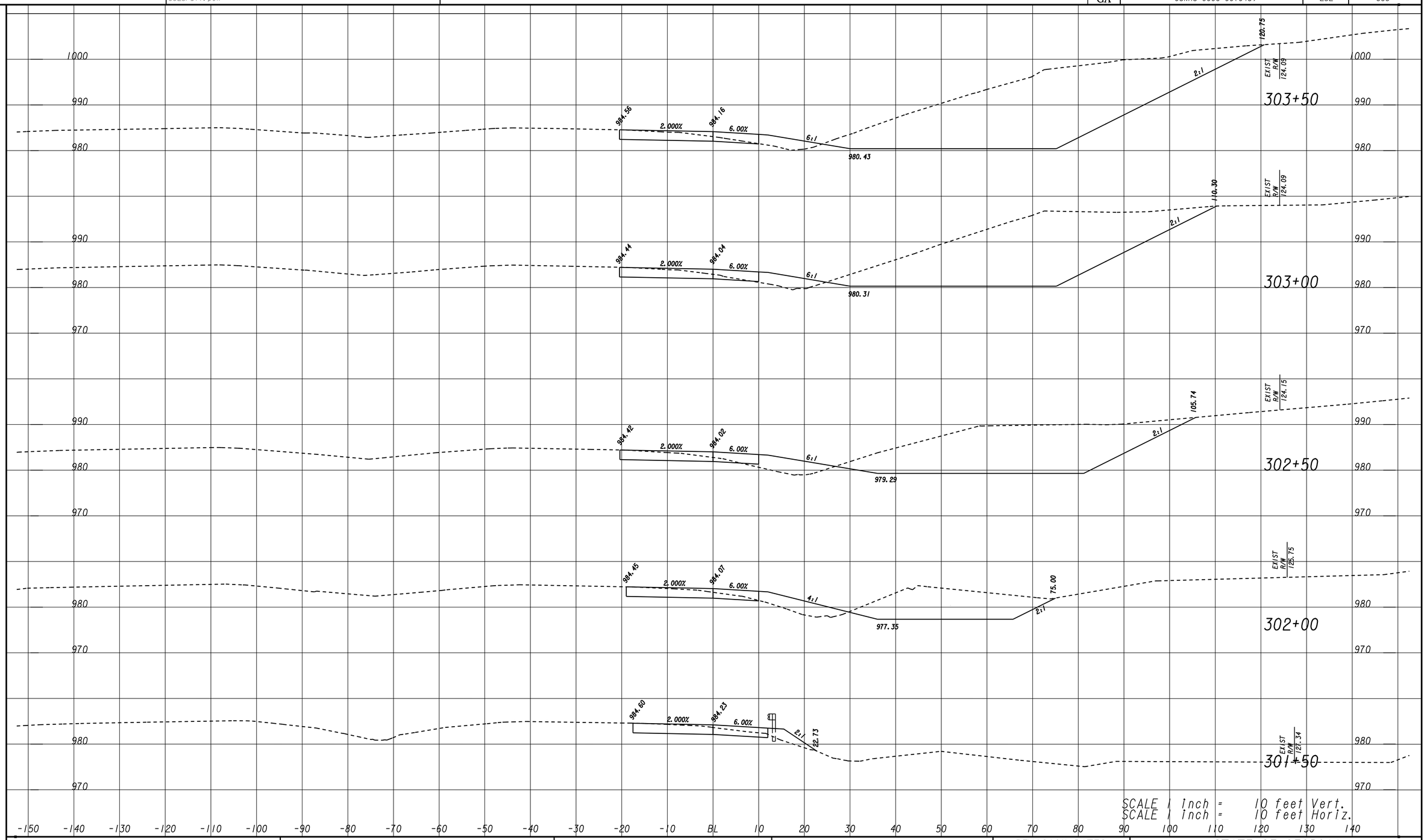

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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

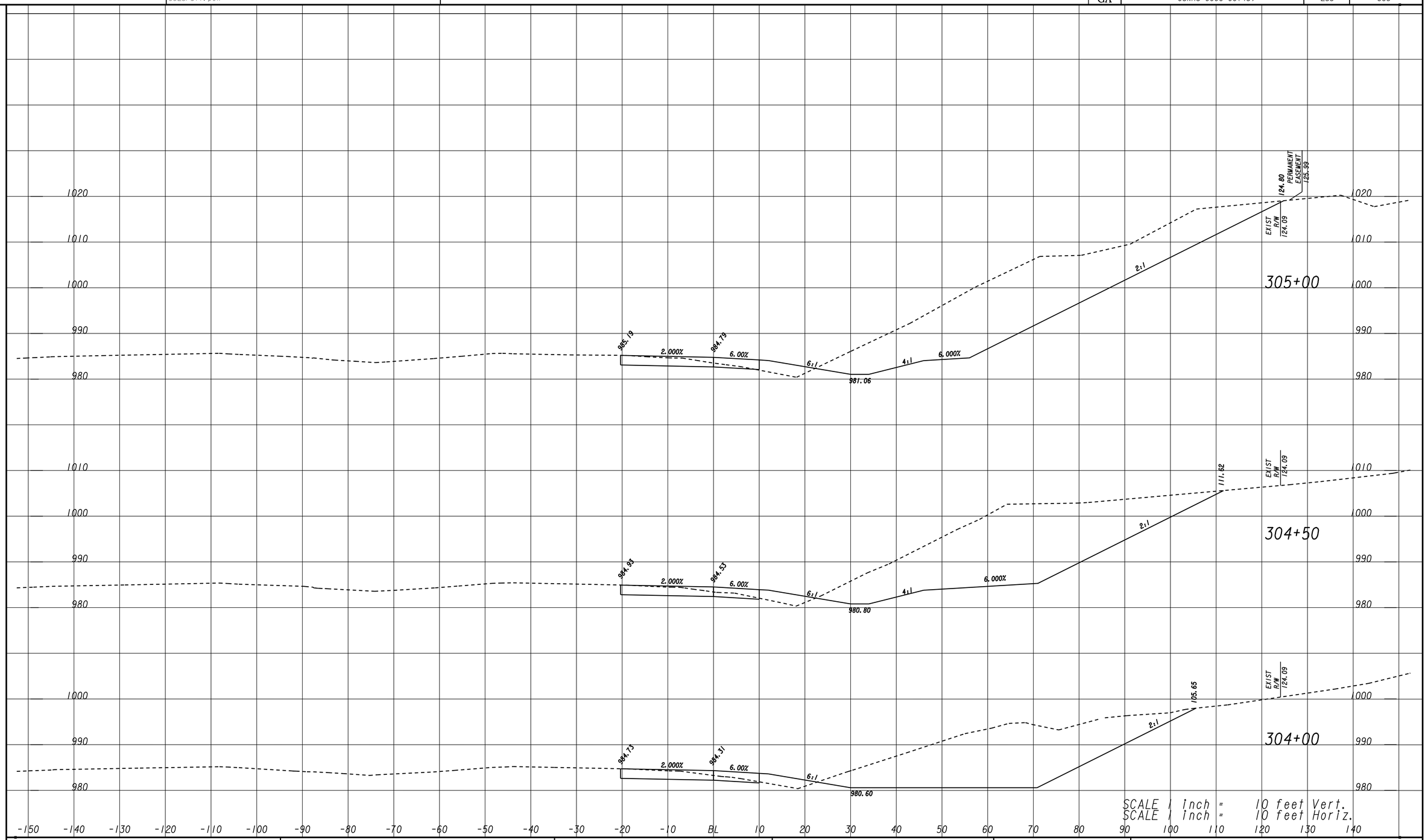
CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-061

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	253	668

RELEASED FOR CONSTRUCTION 12/02/10



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STATE OF GEORGIA
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CROSS SECTIONS

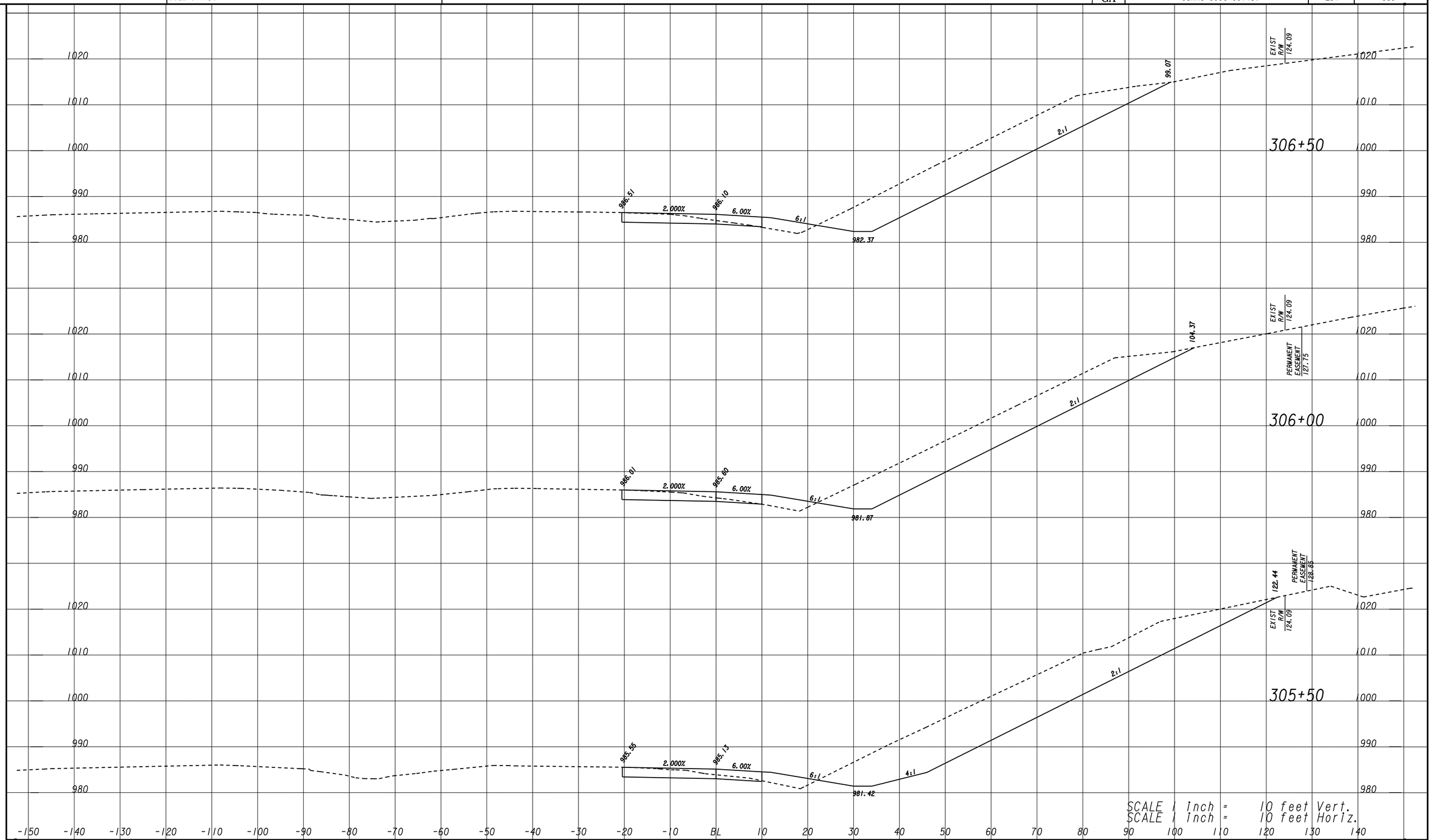
RAMP 'A'

DRAWING No. 23-062

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	254	668

RELEASED FOR CONSTRUCTION 12/02/10



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STATE OF GEORGIA
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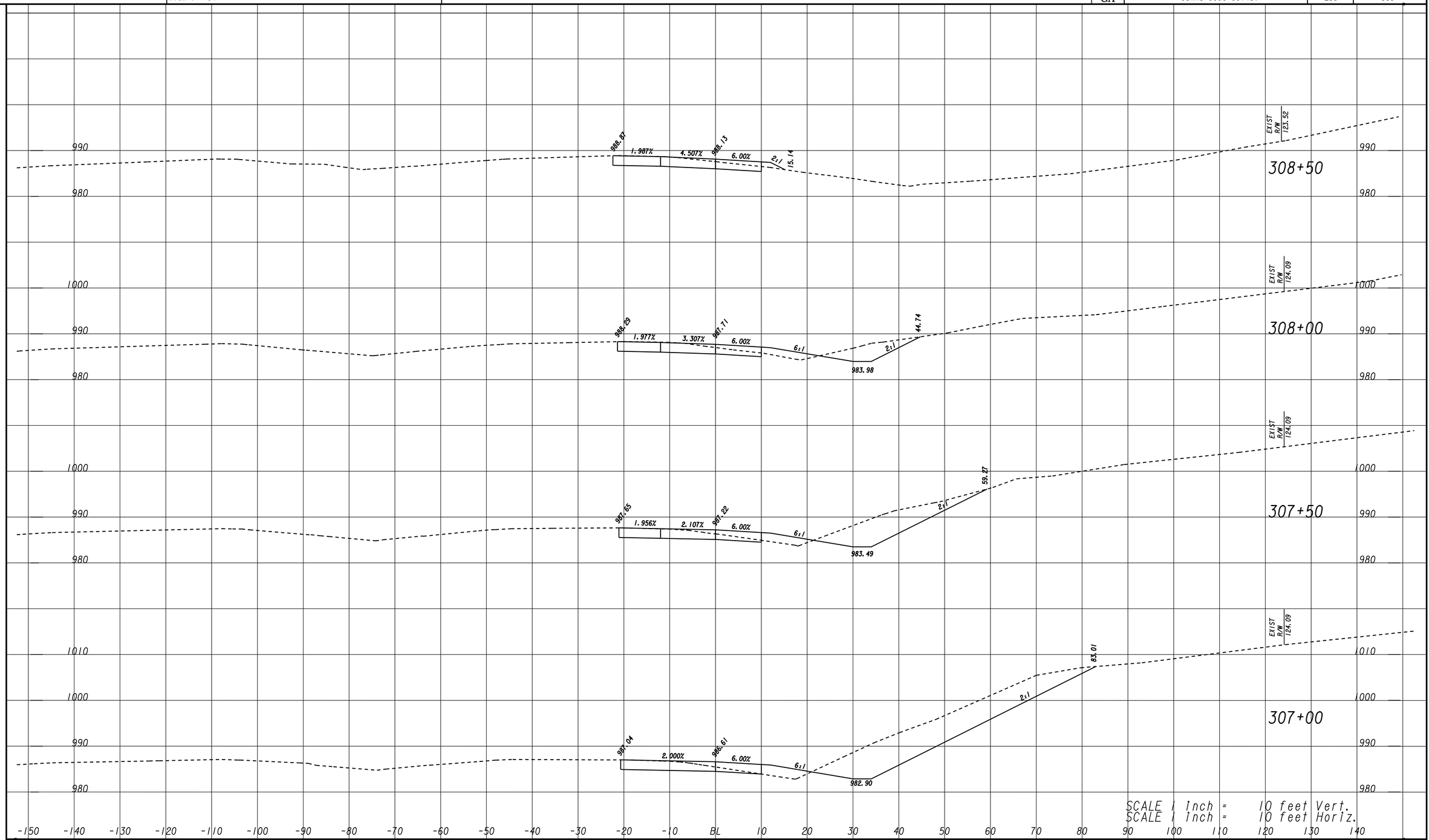
CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-063

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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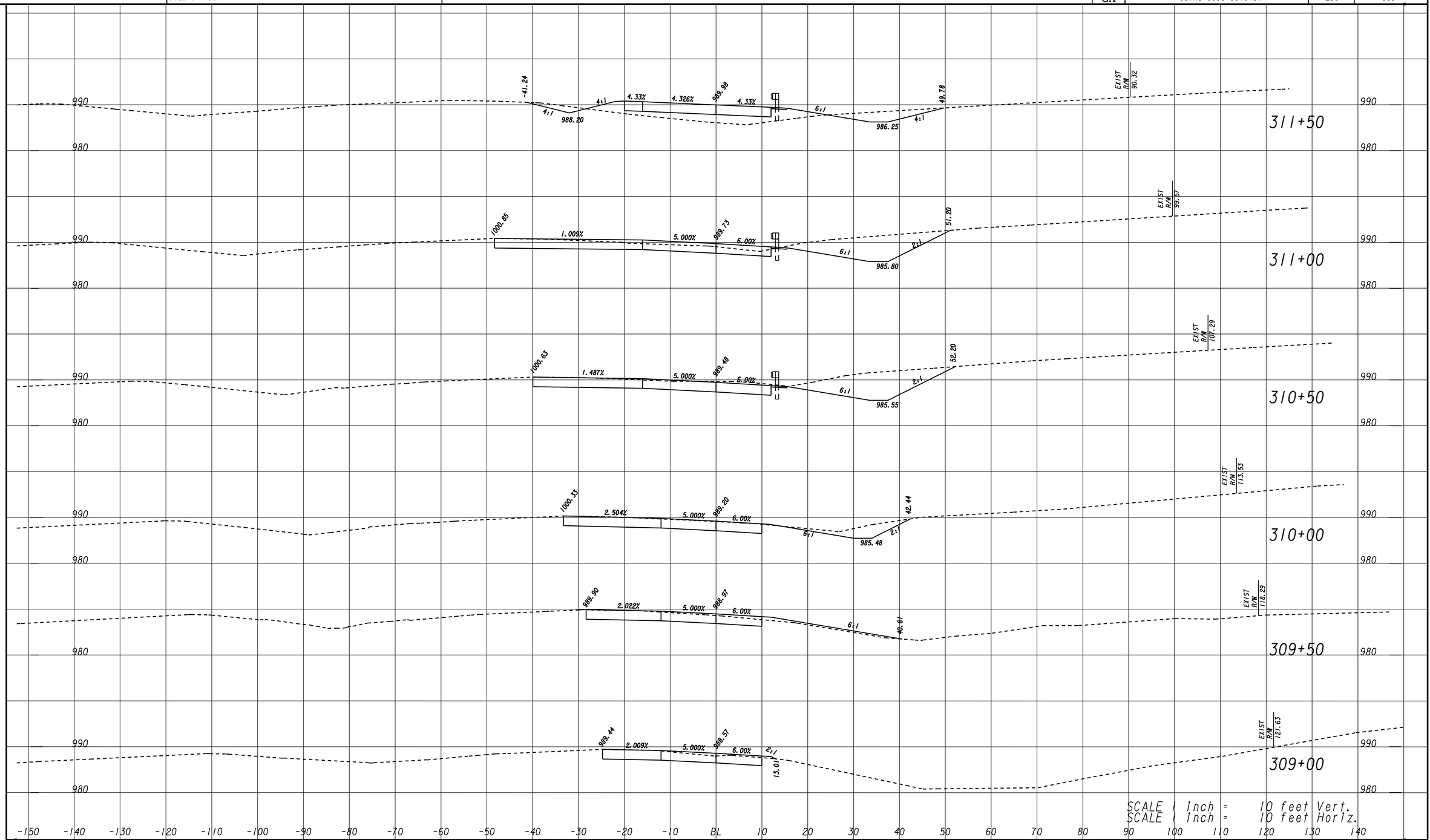
CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-064

3/1/2007 SUKSEW

RELEASED FOR CONSTRUCTION 12/02/10



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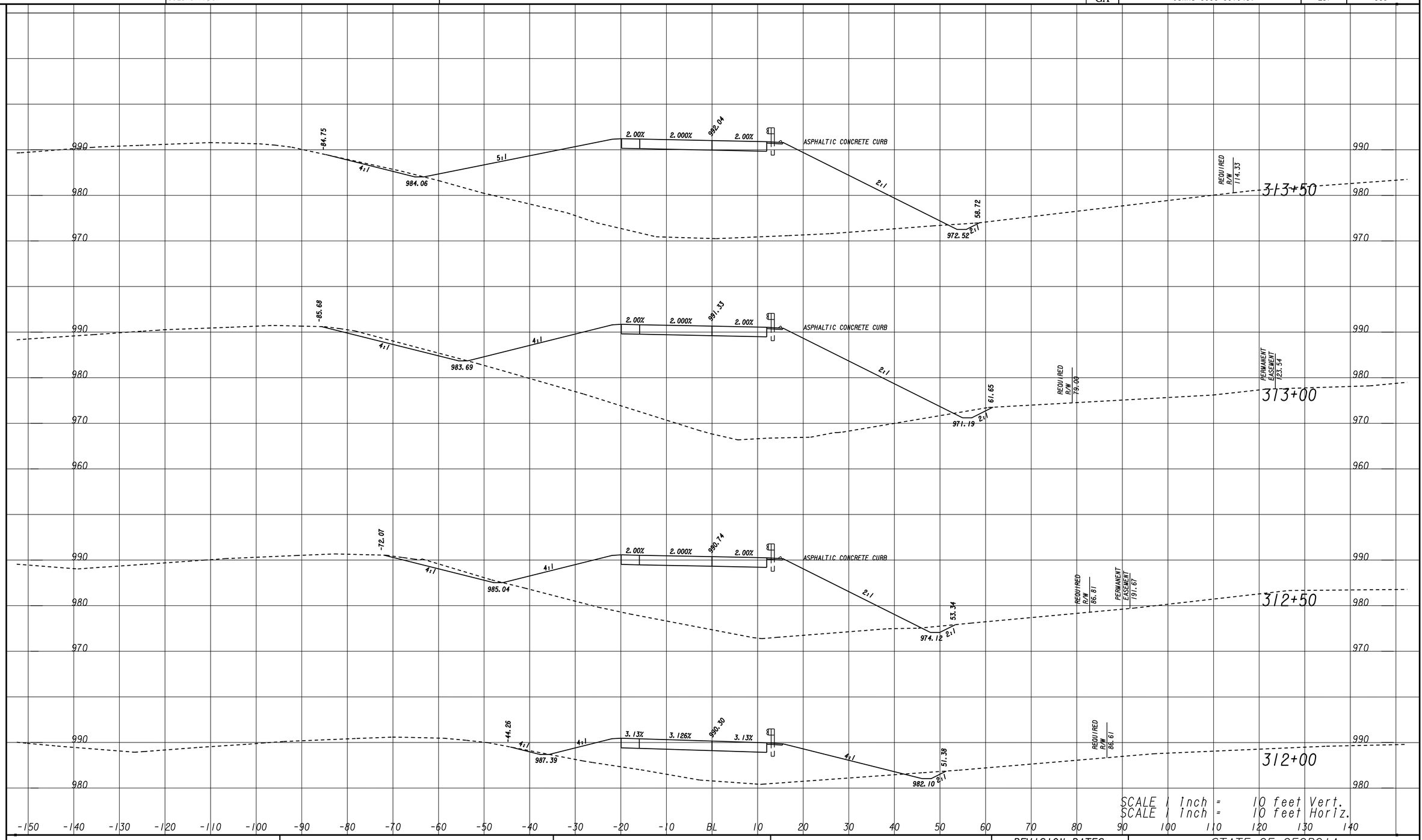
CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-065

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	257	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
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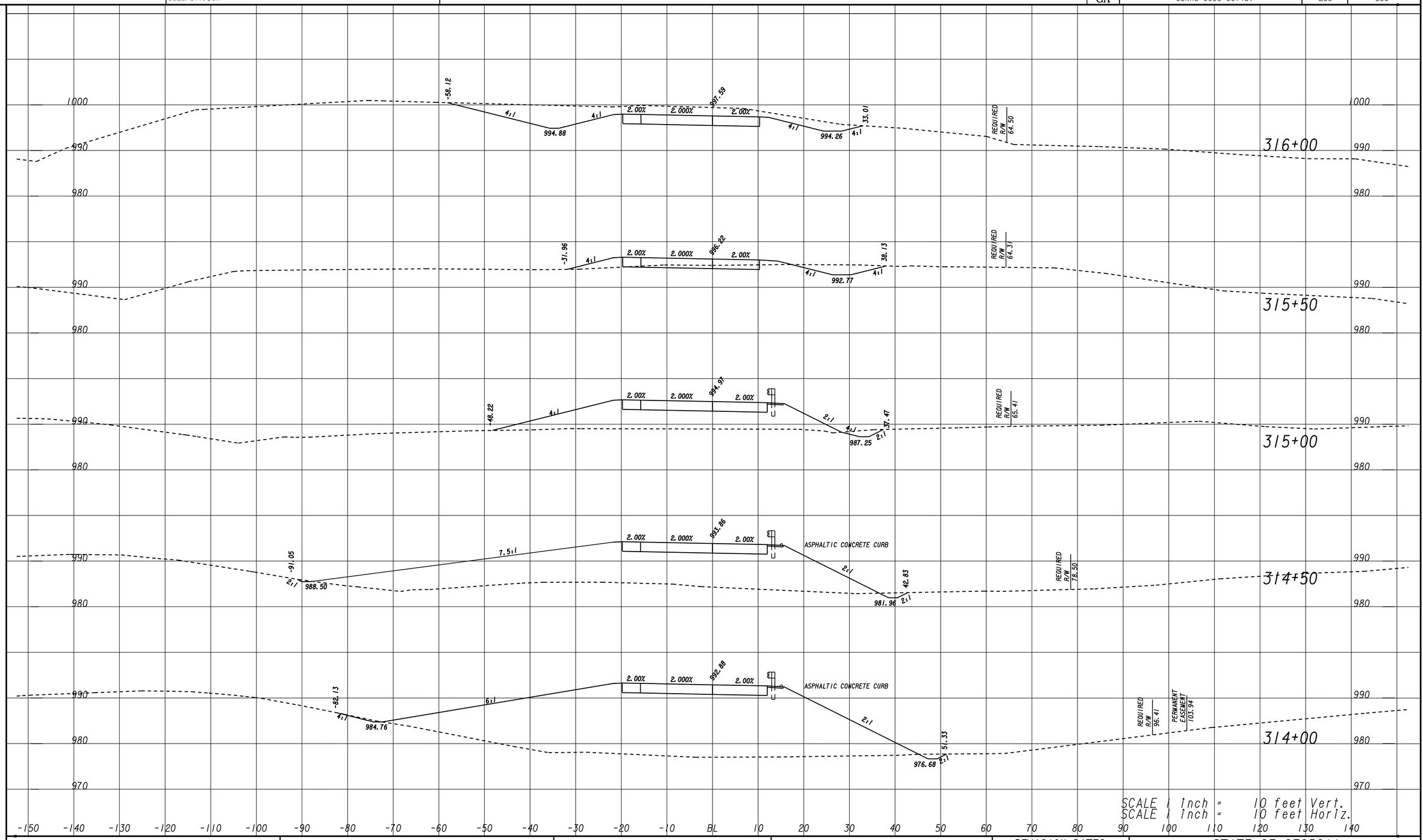
CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-066

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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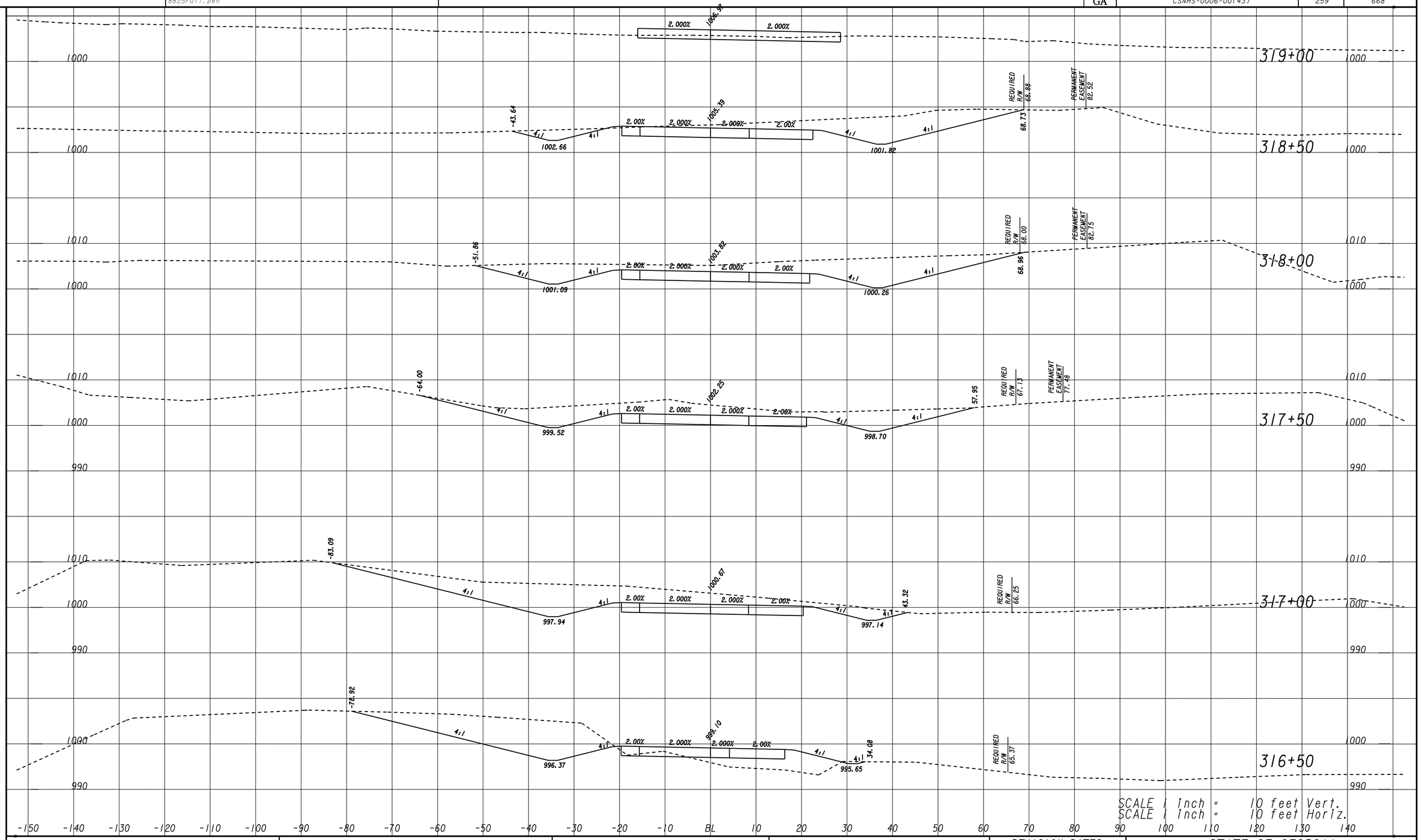
CROSS SECTIONS

RAMP 'A'

DRAWING No. 23-067

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

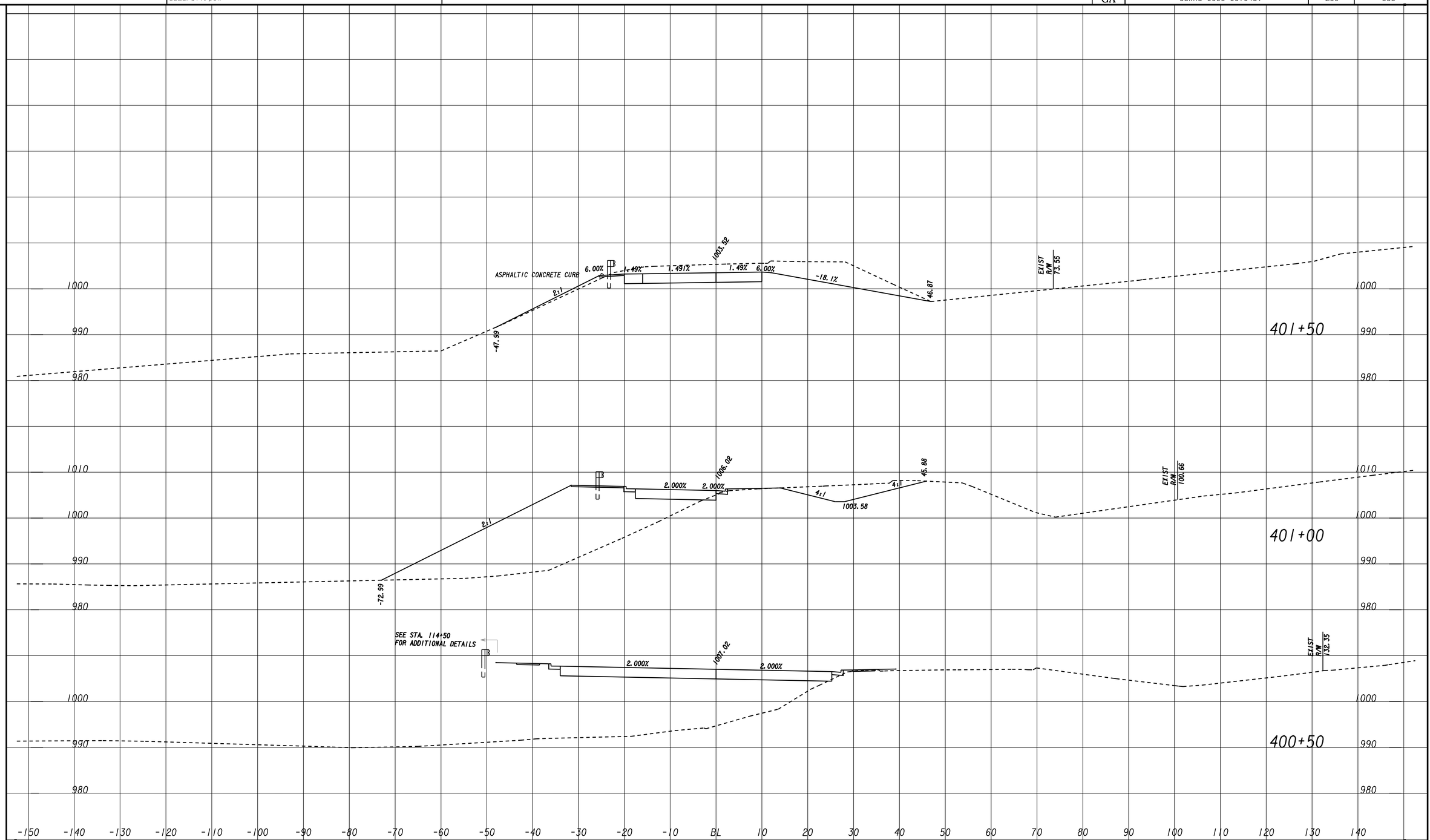
RAMP 'A'

DRAWING No. 23-068

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	260	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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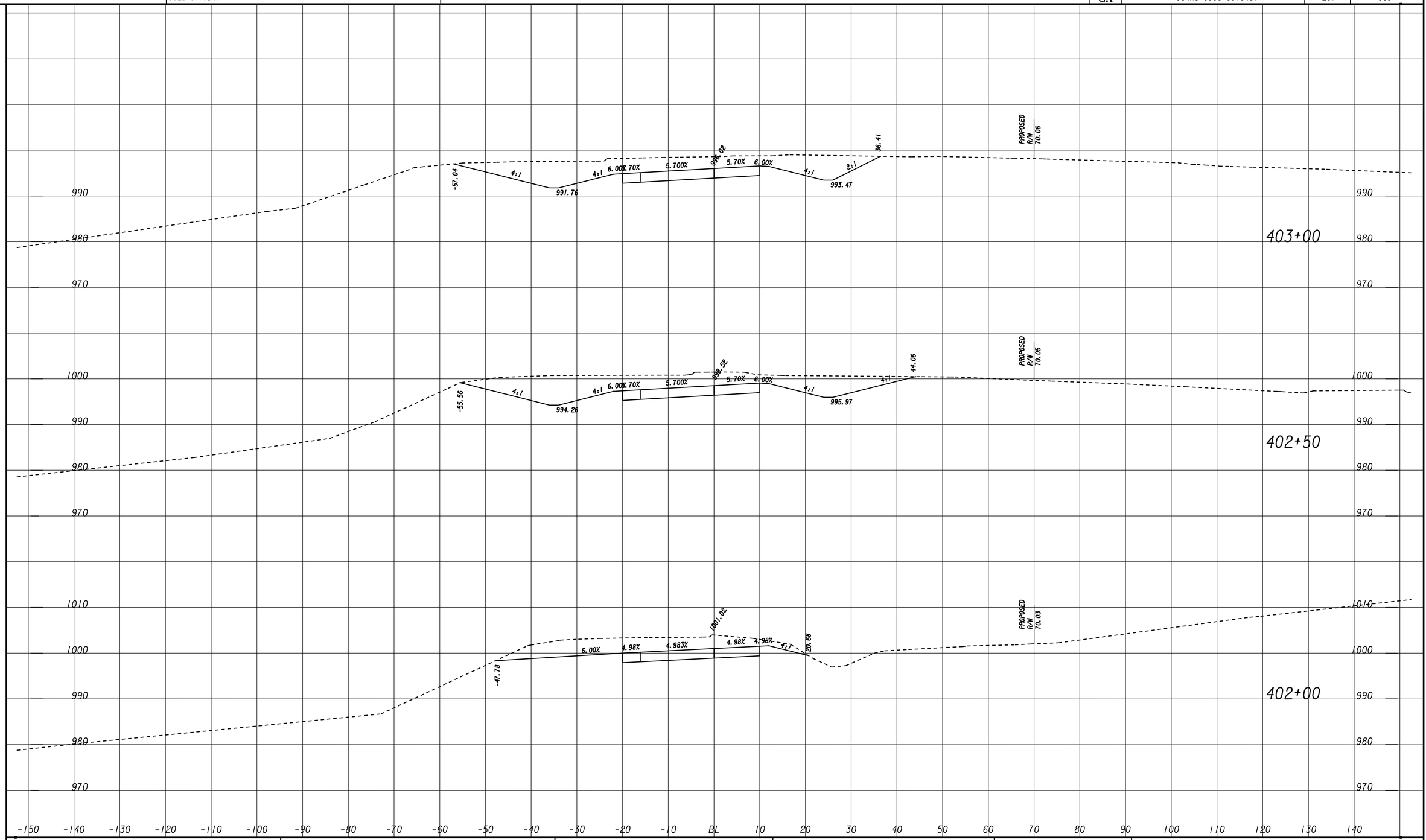
CROSS SECTIONS

RAMP 'B'

DRAWING No. 23-069

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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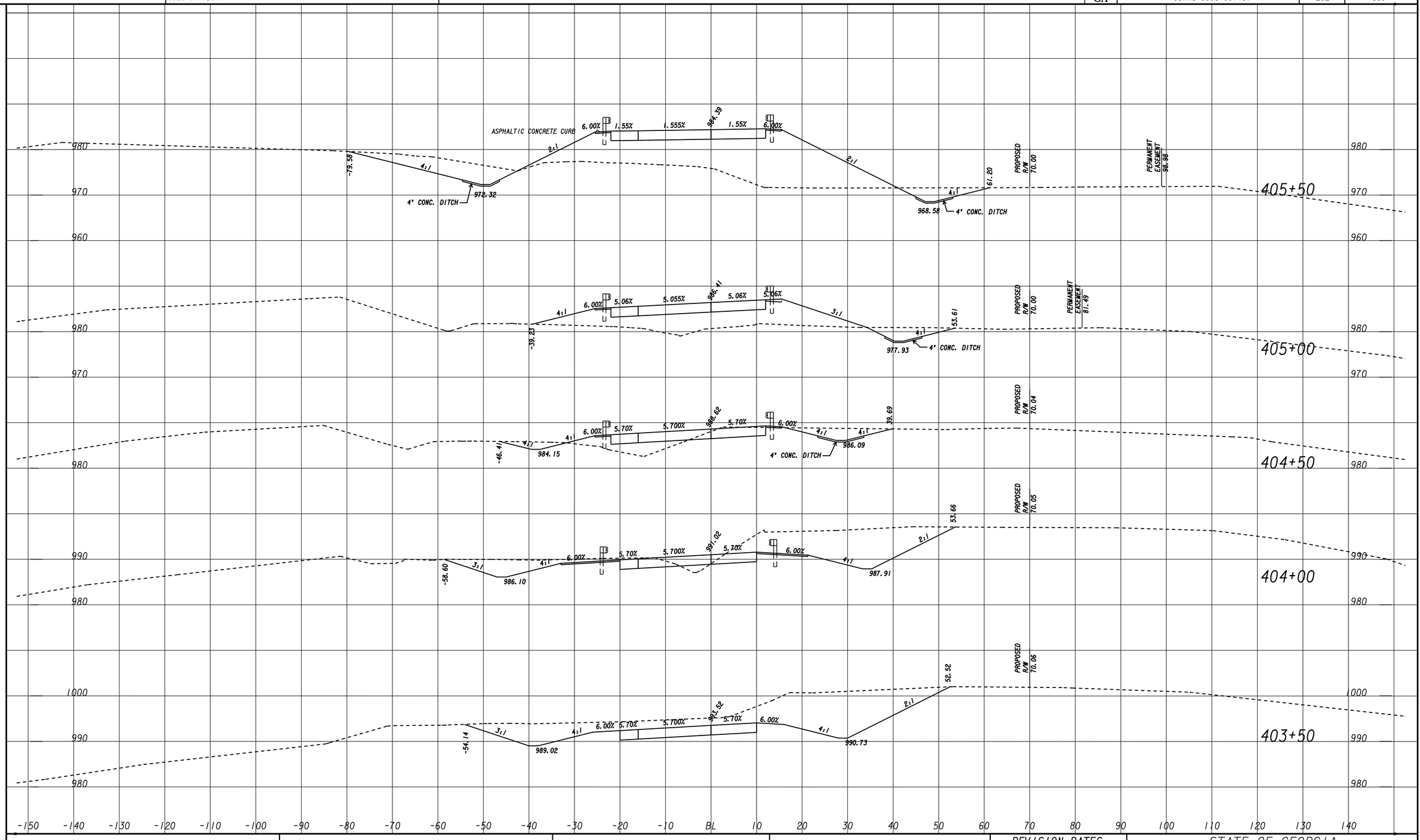
CROSS SECTIONS

RAMP 'B'

DRAWING No. 23-070

RELEASED FOR CONSTRUCTION 12/02/10



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SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

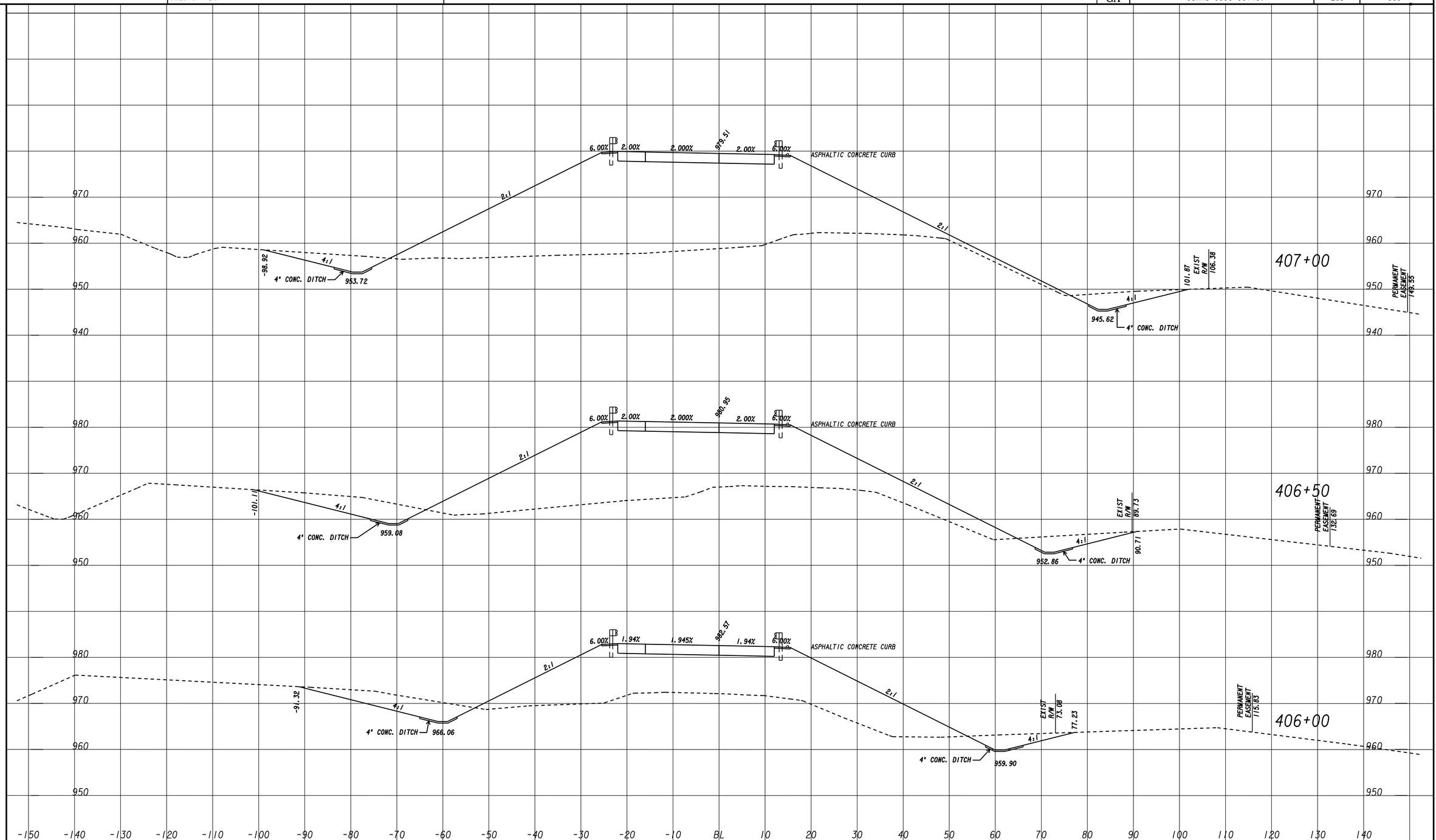
RAMP 'B'

DRAWING No. 23-071

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	263	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

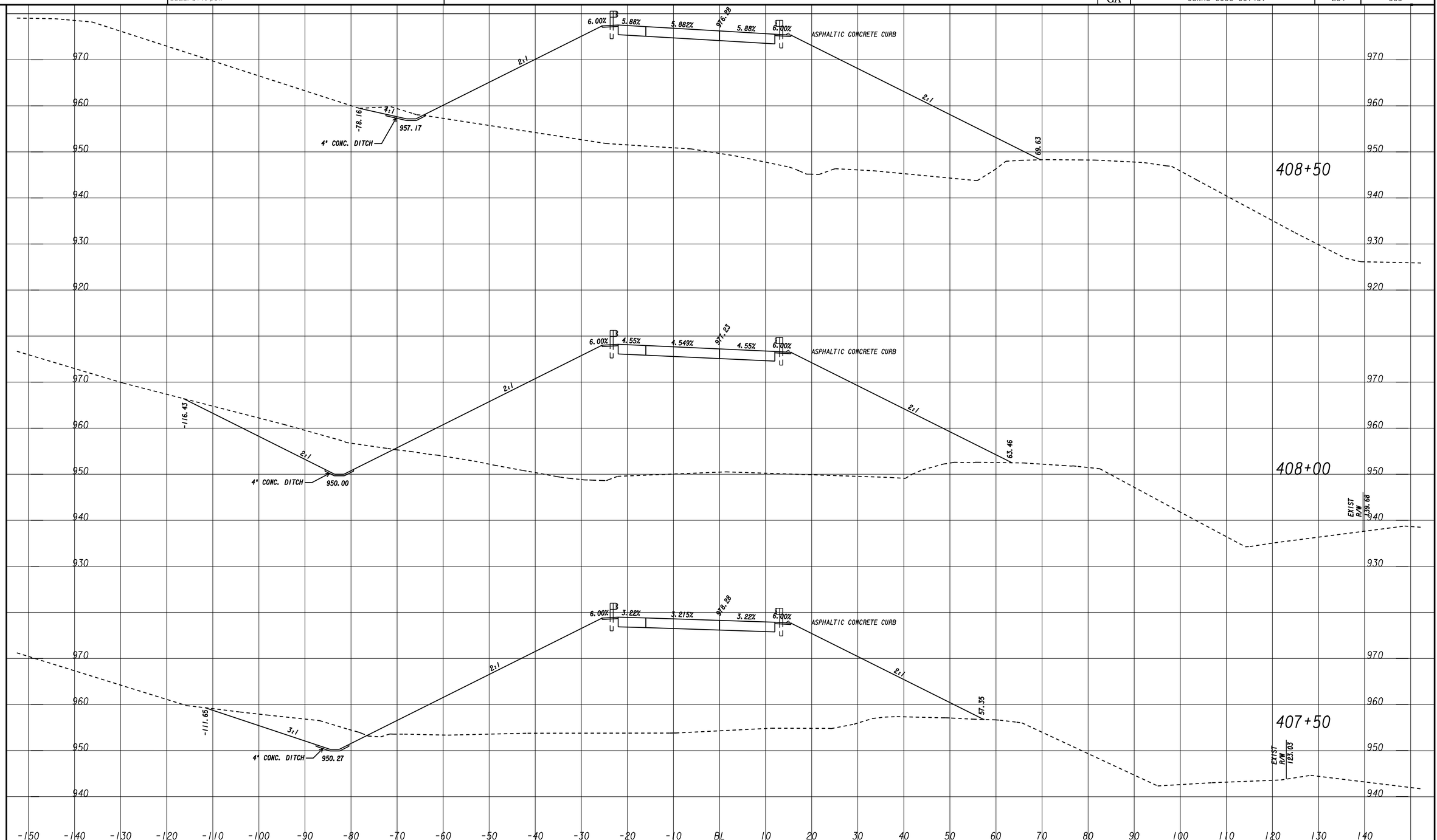
RAMP 'B'

DRAWING No. 23-072

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	264	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

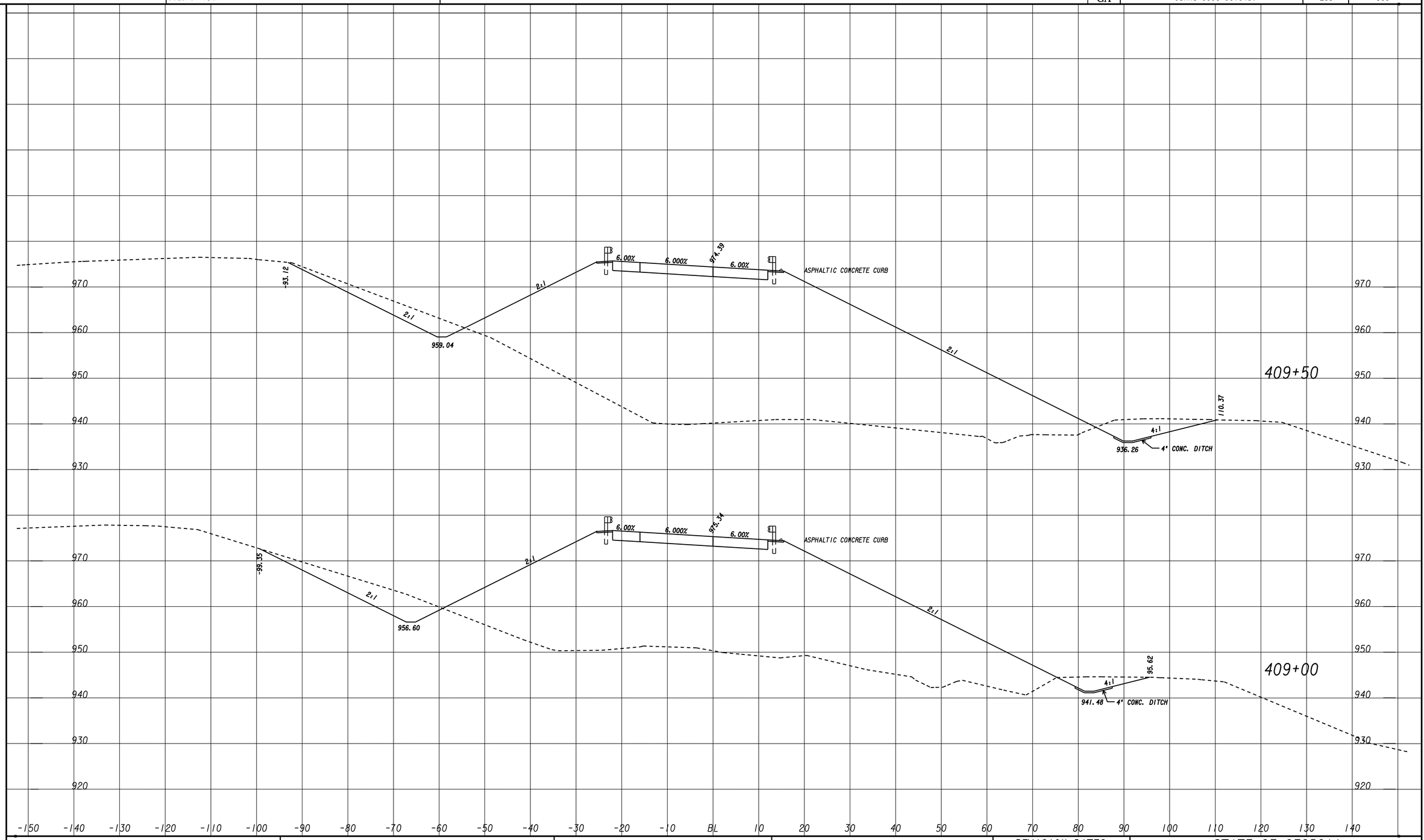
RAMP 'B'

DRAWING No. 23-073

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	265	668

RELEASED FOR CONSTRUCTION 12/02/10



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STATE OF GEORGIA
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CROSS SECTIONS

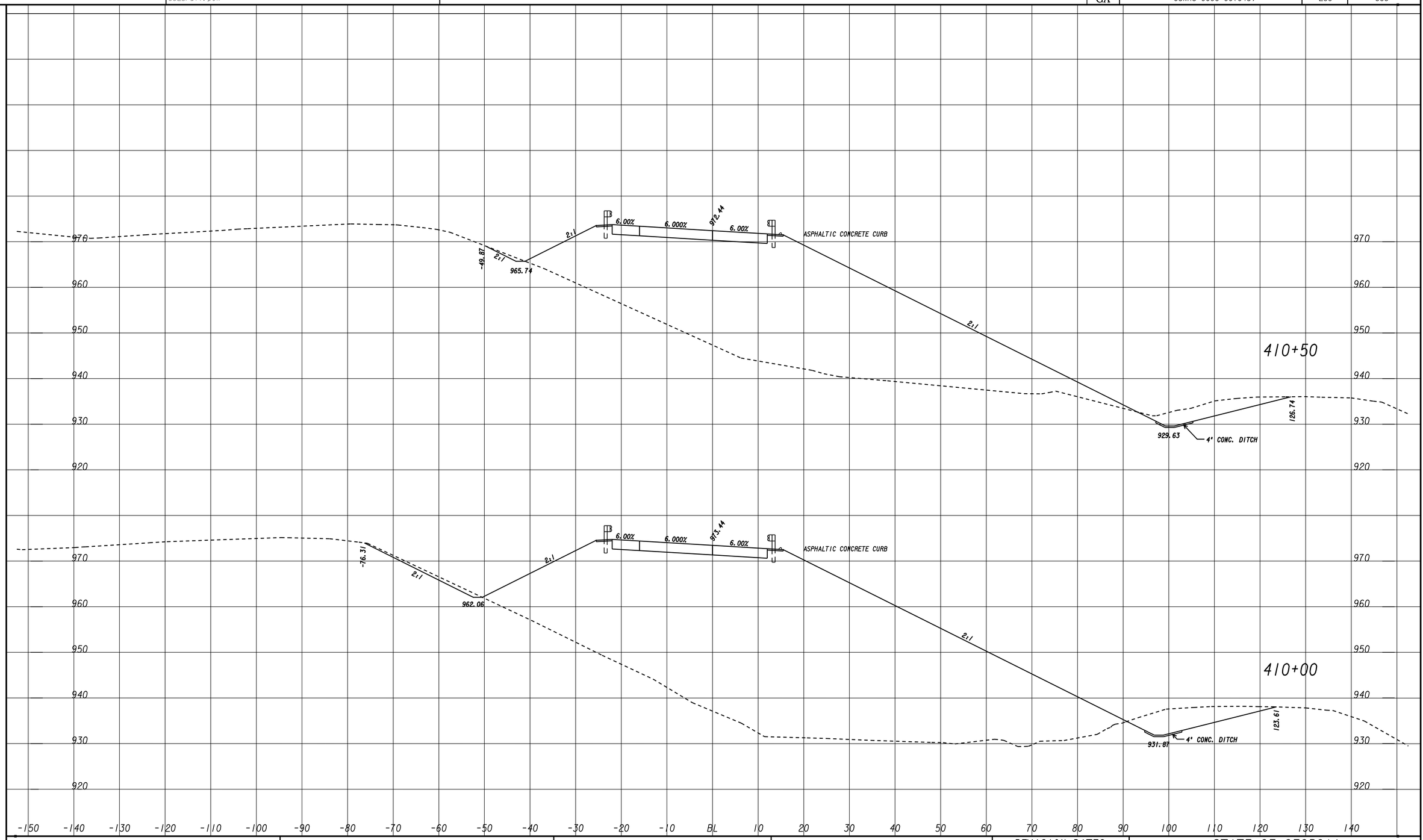
RAMP 'B'

DRAWING No. 23-074

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	266	668

RELEASED FOR CONSTRUCTION 12/02/10



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REVISION DATES

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CROSS SECTIONS

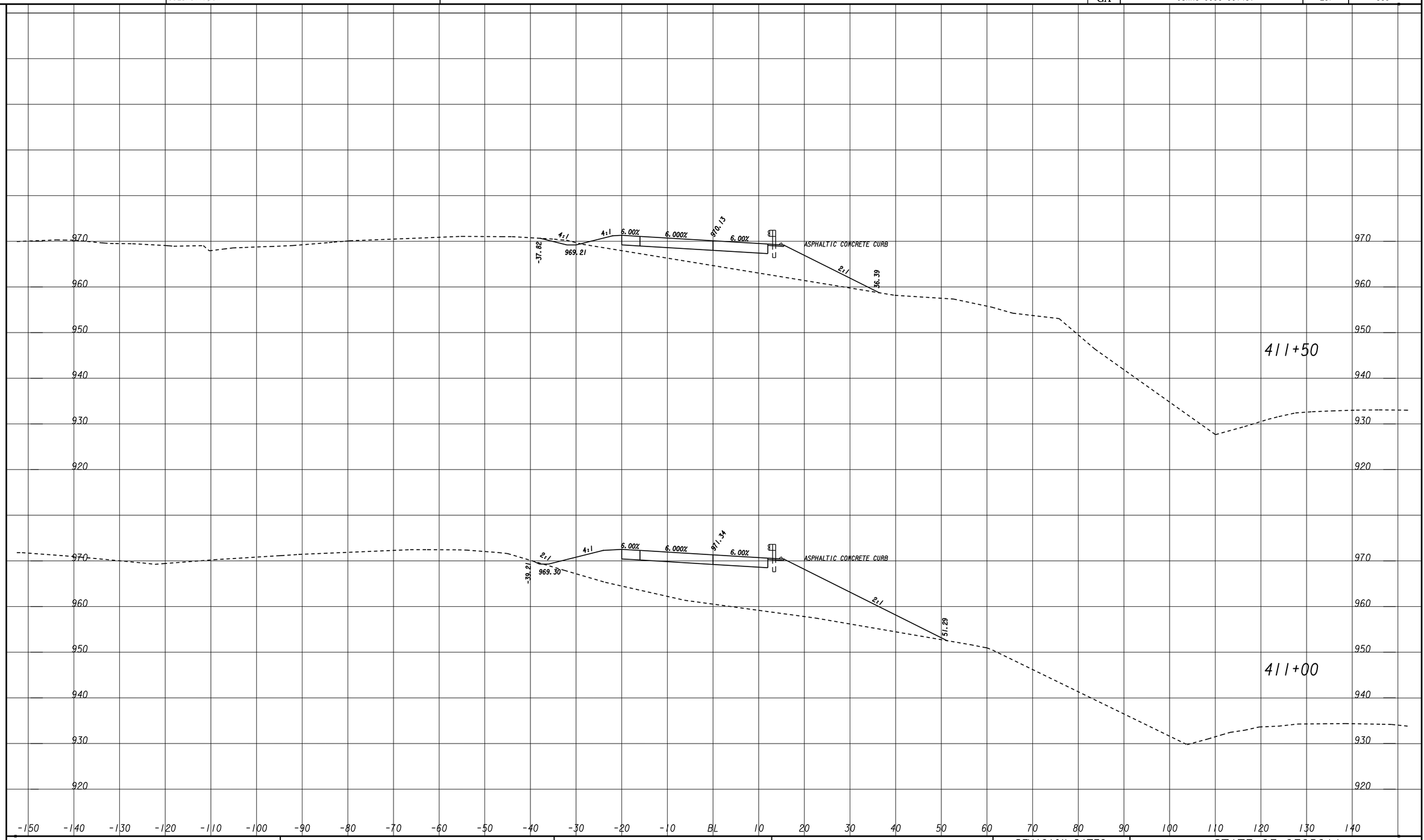
RAMP 'B'

DRAWING No. 23-075

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	267	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

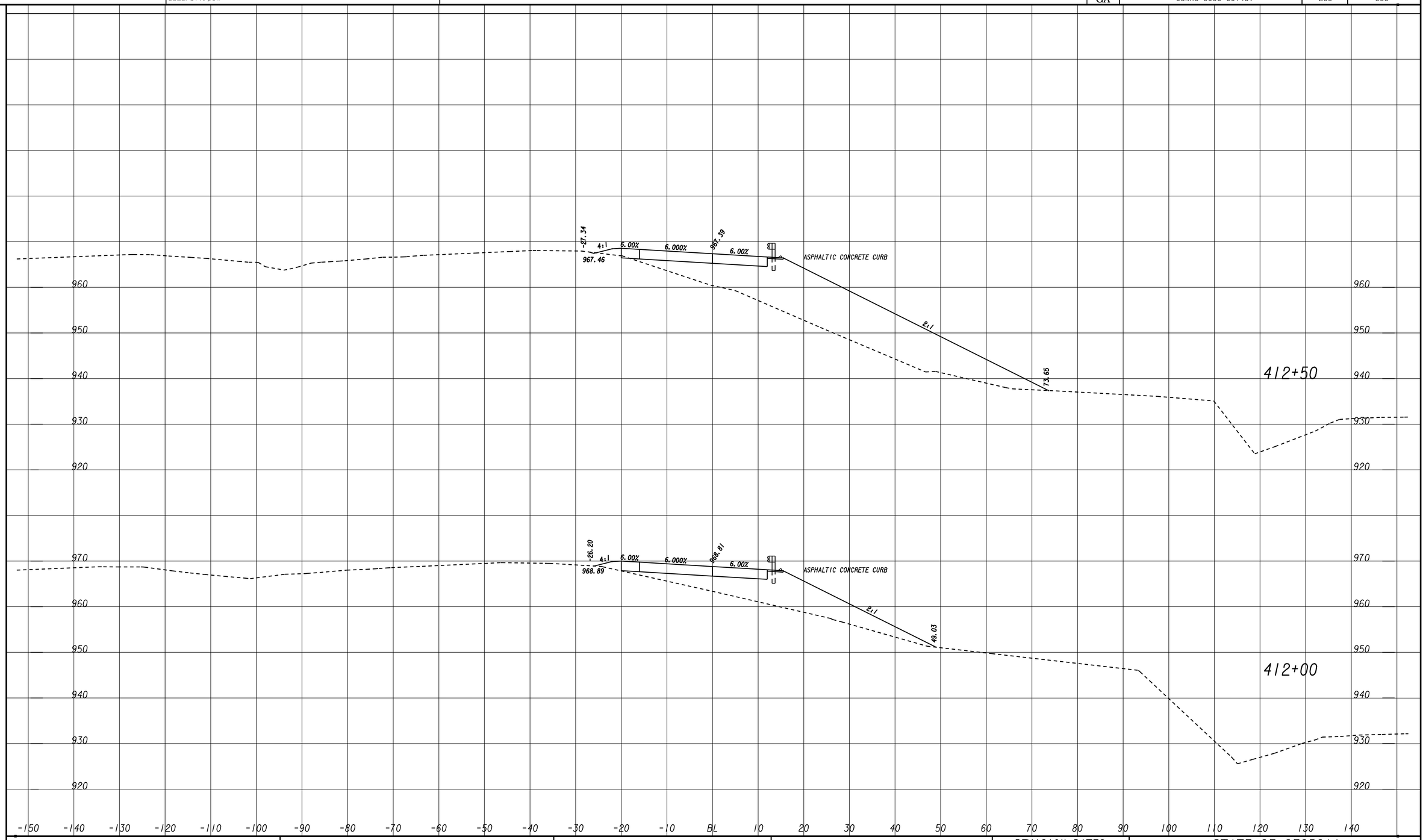
RAMP 'B'

DRAWING No. 23-076

3/1/2007 SUXSEW

06-DEC-2010 12:00	TIME$$$	006043XS038	Y:\Roadways\07400004\006043\DGN\006043XS03.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(43)	268	668

RELEASED FOR CONSTRUCTION 12/02/10



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REVISION DATES

STATE OF GEORGIA
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CROSS SECTIONS

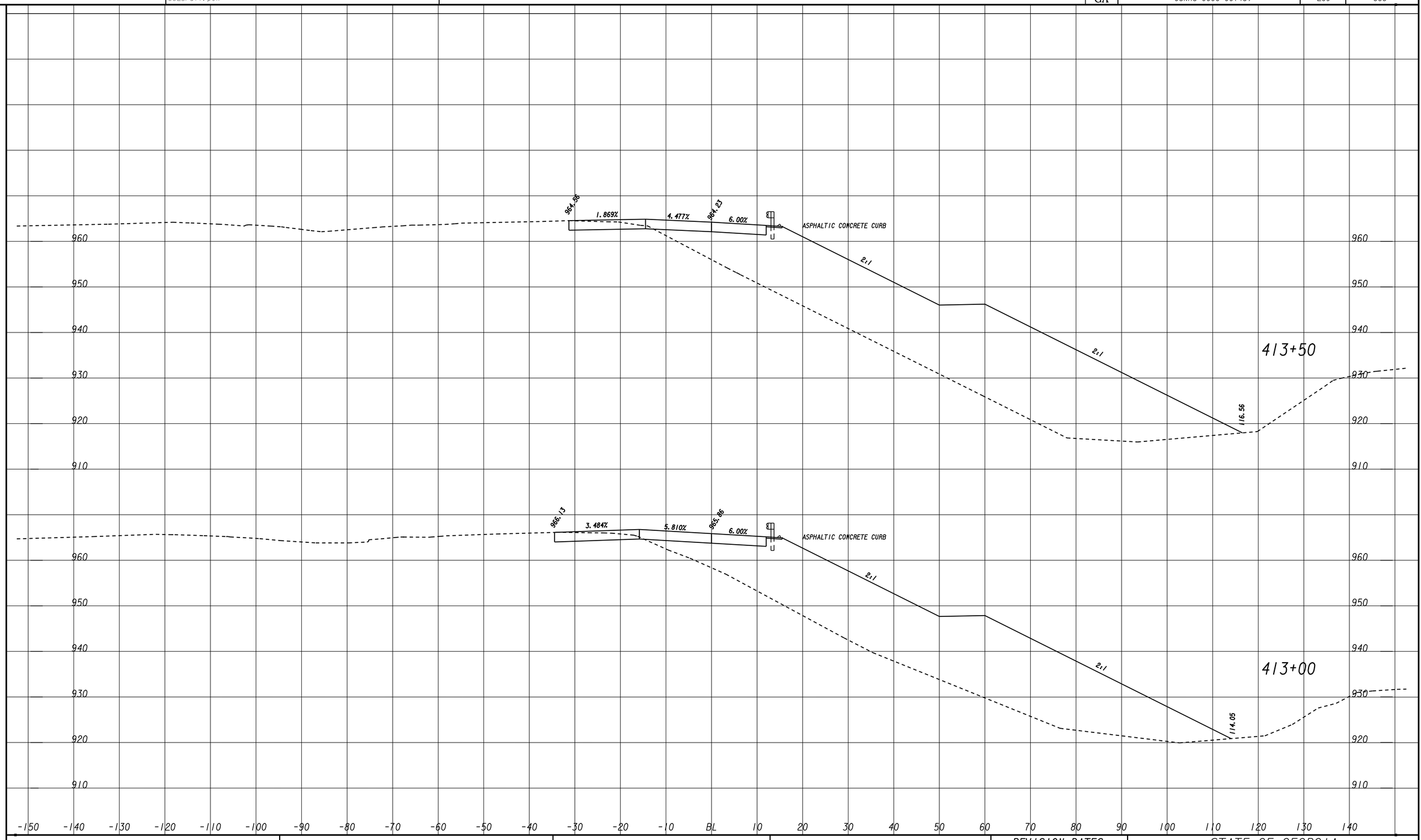
RAMP 'B'

DRAWING No. 23-077

3/1/2007 SUXSEW

06-DEC-2010 12:00	TIME$$$	006043XS039	Y:\Roadways\07400004\006043\DGN\006043XS03.DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(43)	269	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

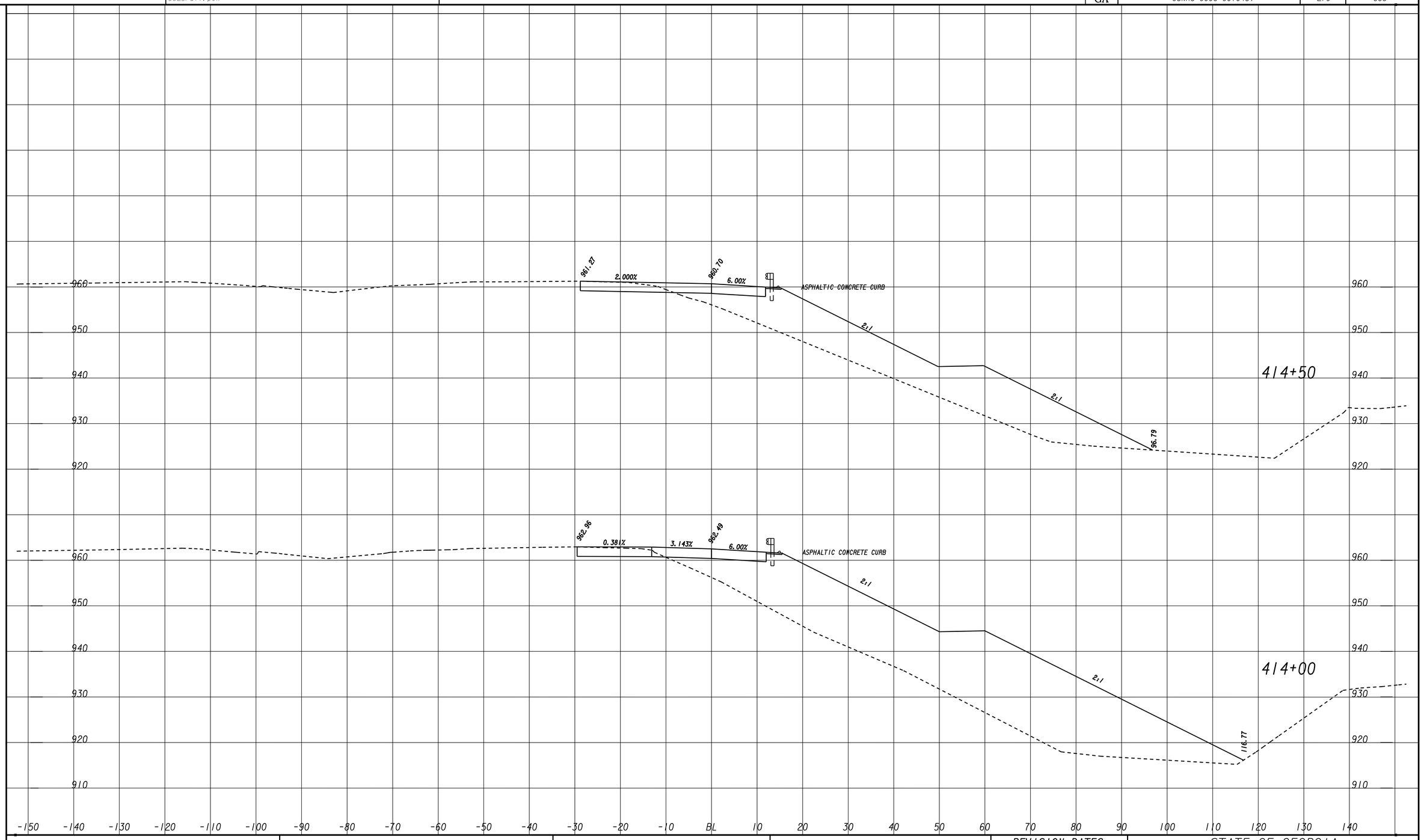
RAMP 'B'

DRAWING No. 23-078

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	270	668

RELEASED FOR CONSTRUCTION 12/02/10



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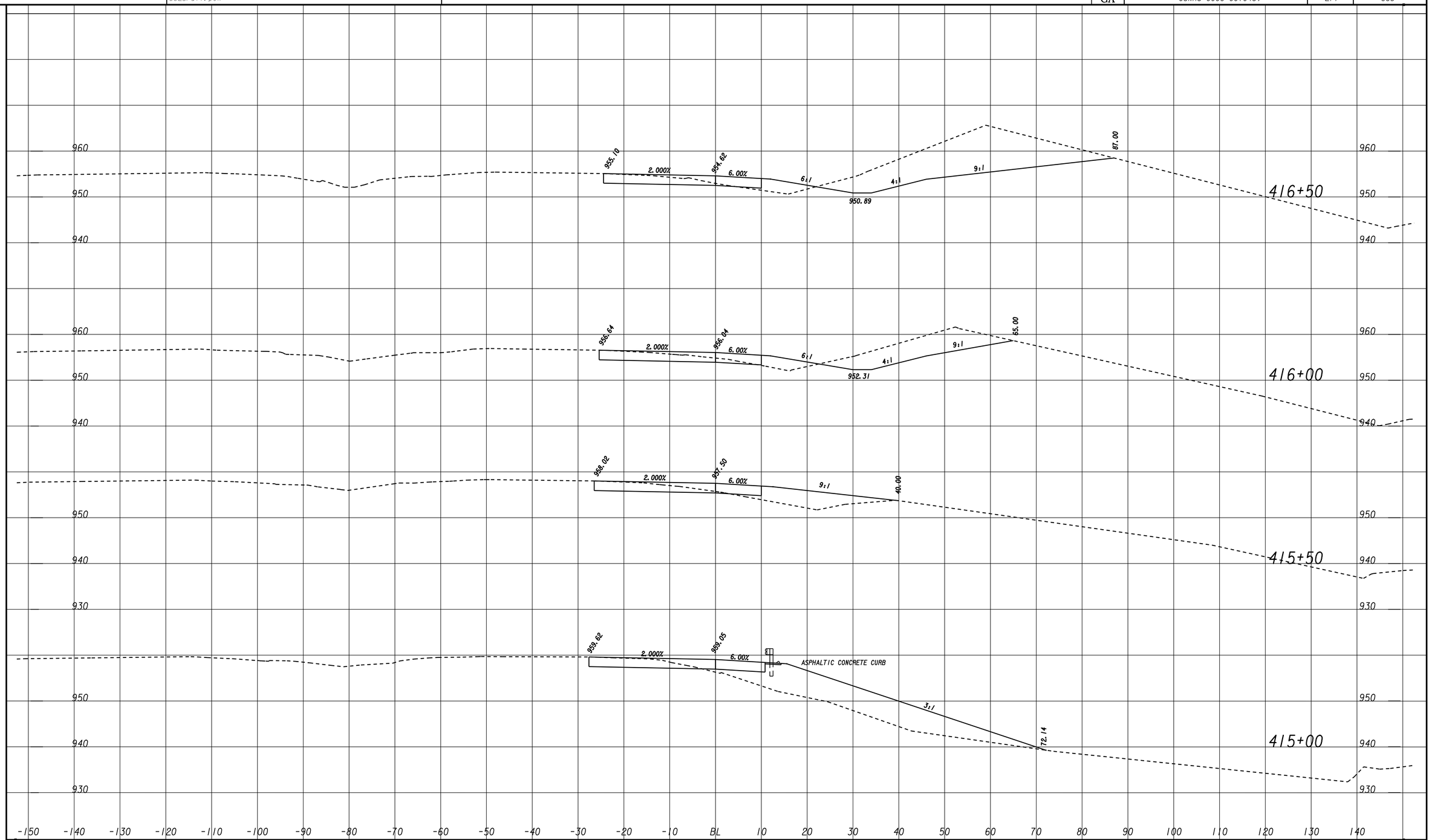
CROSS SECTIONS

RAMP 'B'

DRAWING No. 23-079

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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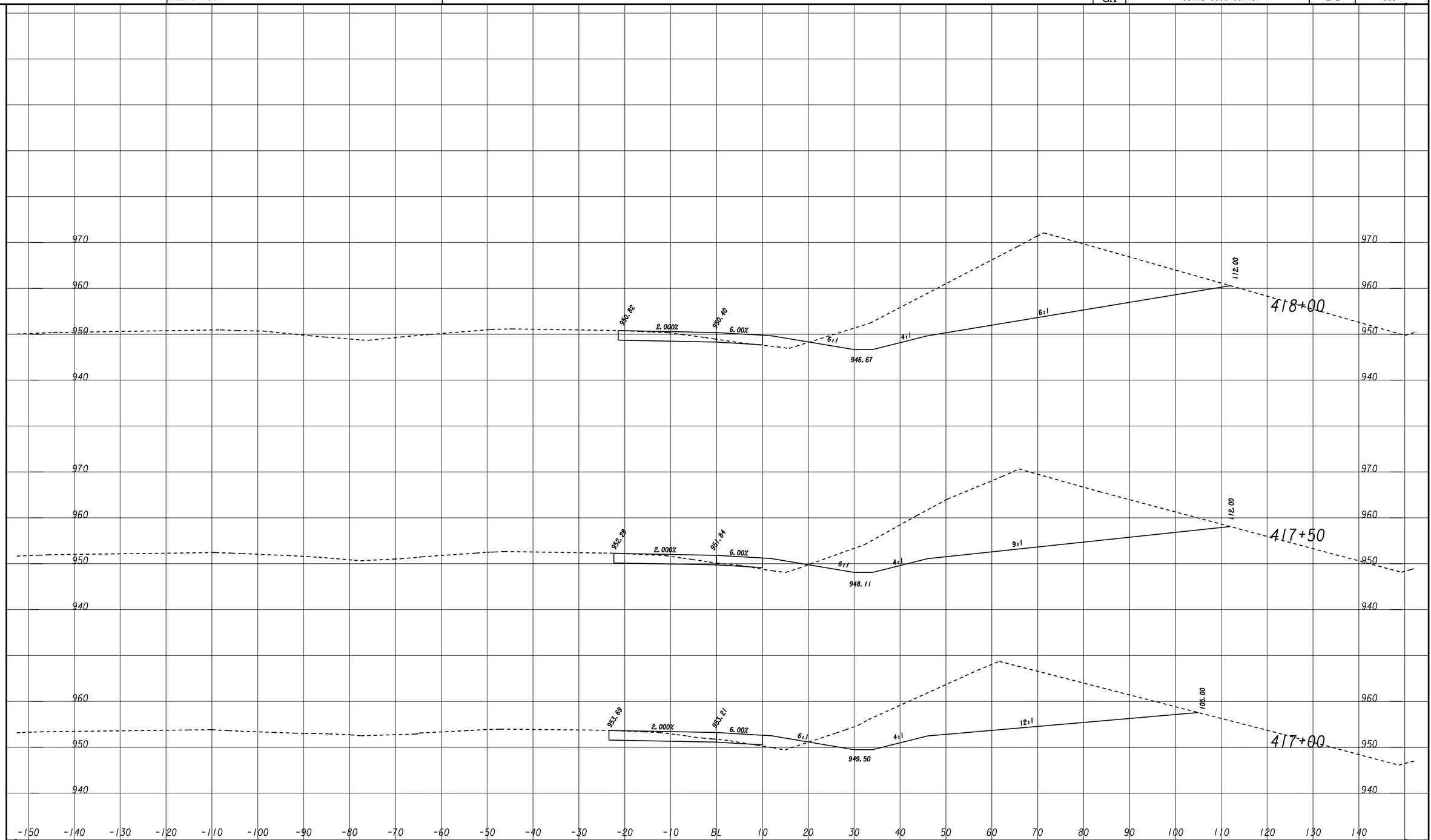
RAMP 'B'

DRAWING No. 23-080

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	272	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

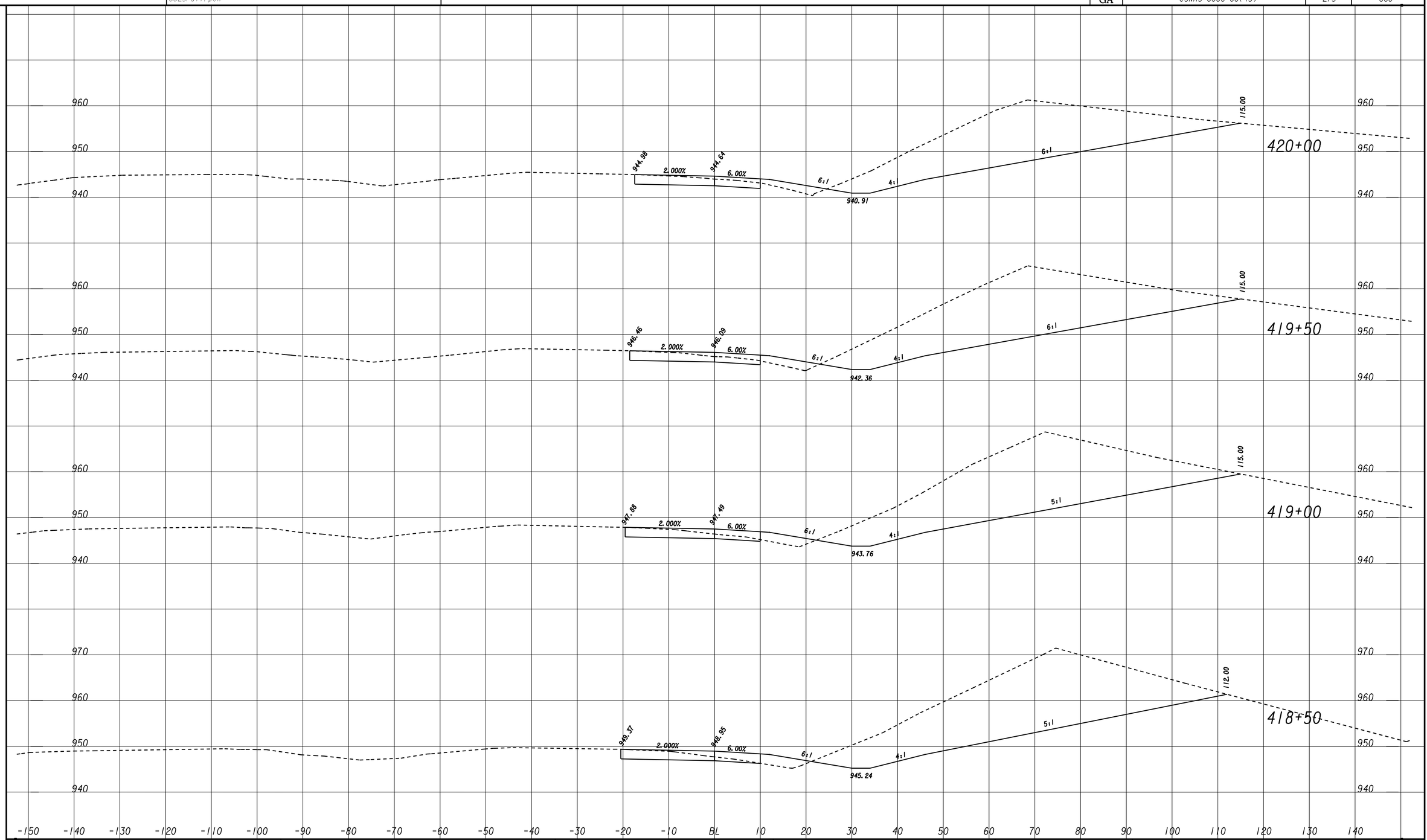
RAMP 'B'

DRAWING No. 23-081

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	273	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

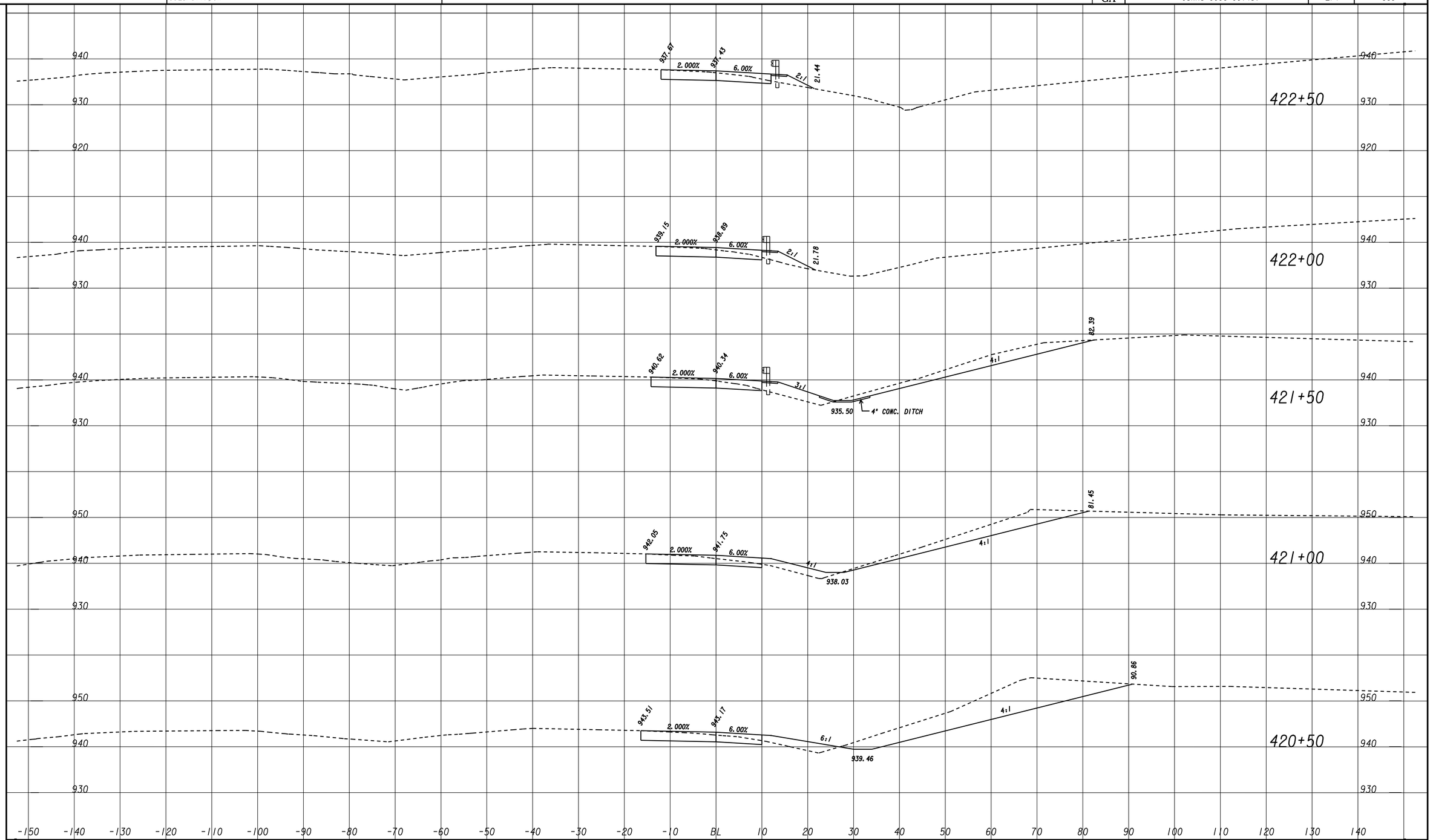
RAMP 'B'

DRAWING No. 23-082

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	274	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

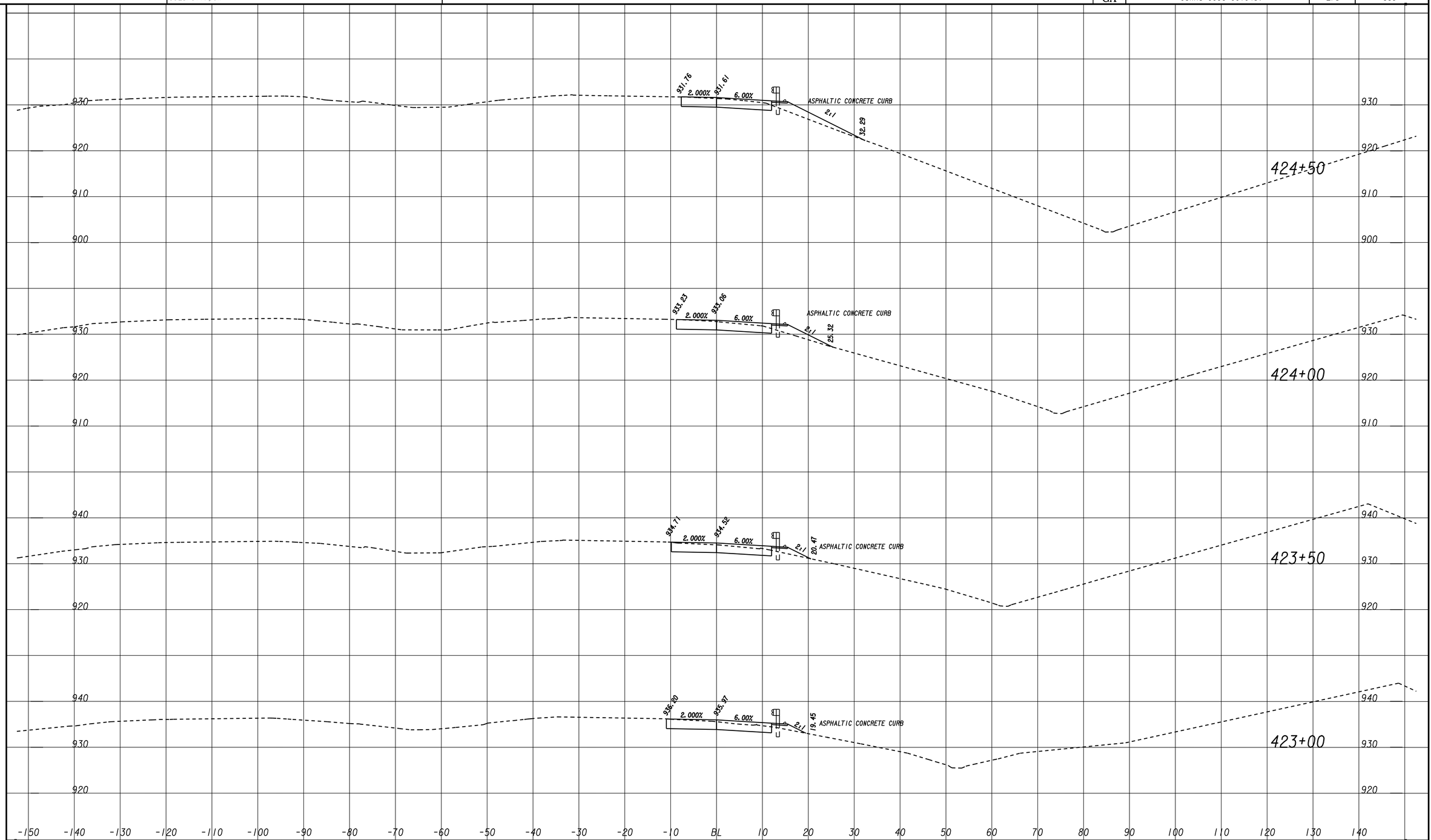
RAMP 'B'

DRAWING No. 23-083

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	275	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

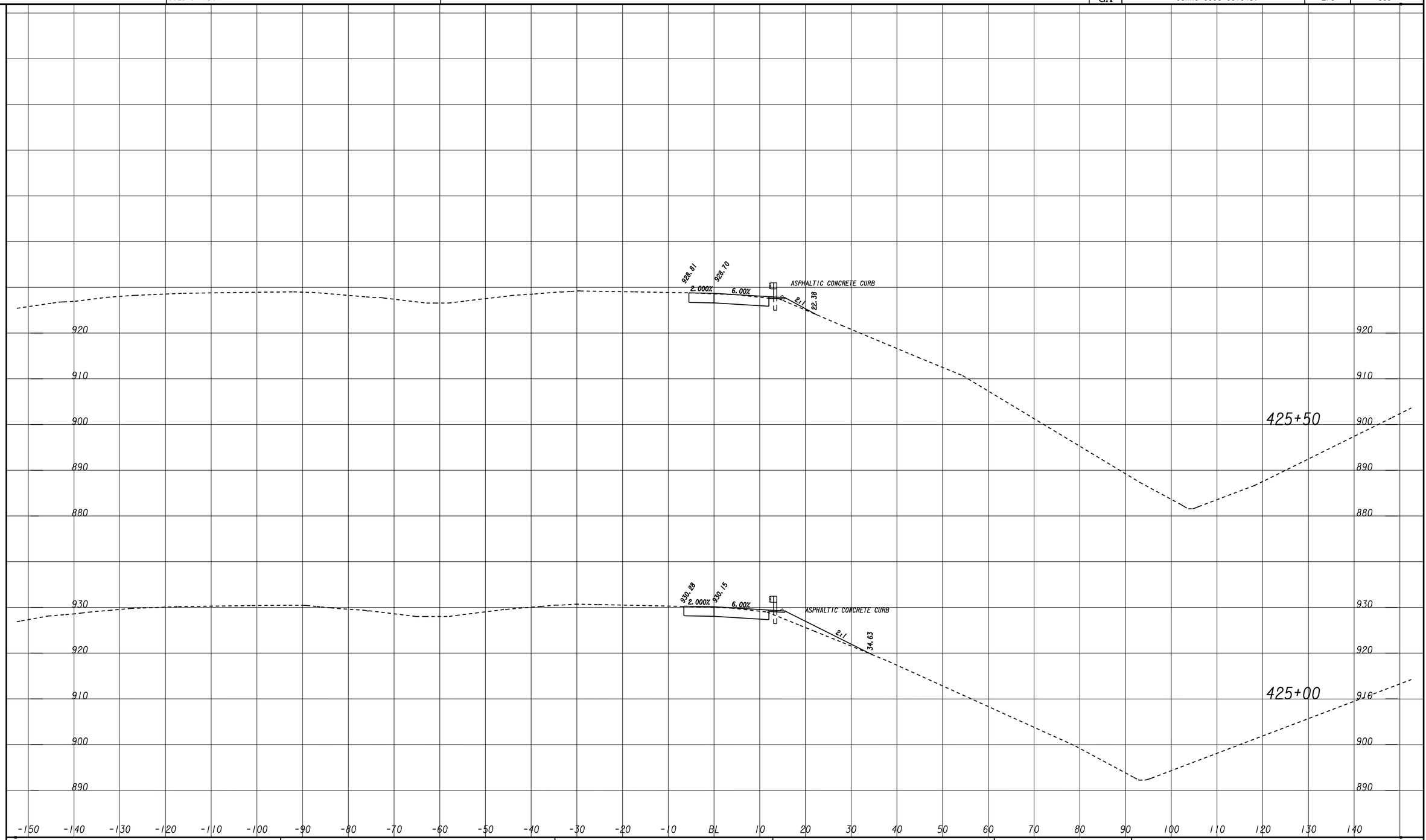
RAMP 'B'

DRAWING No. 23-084

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	276	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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CROSS SECTIONS

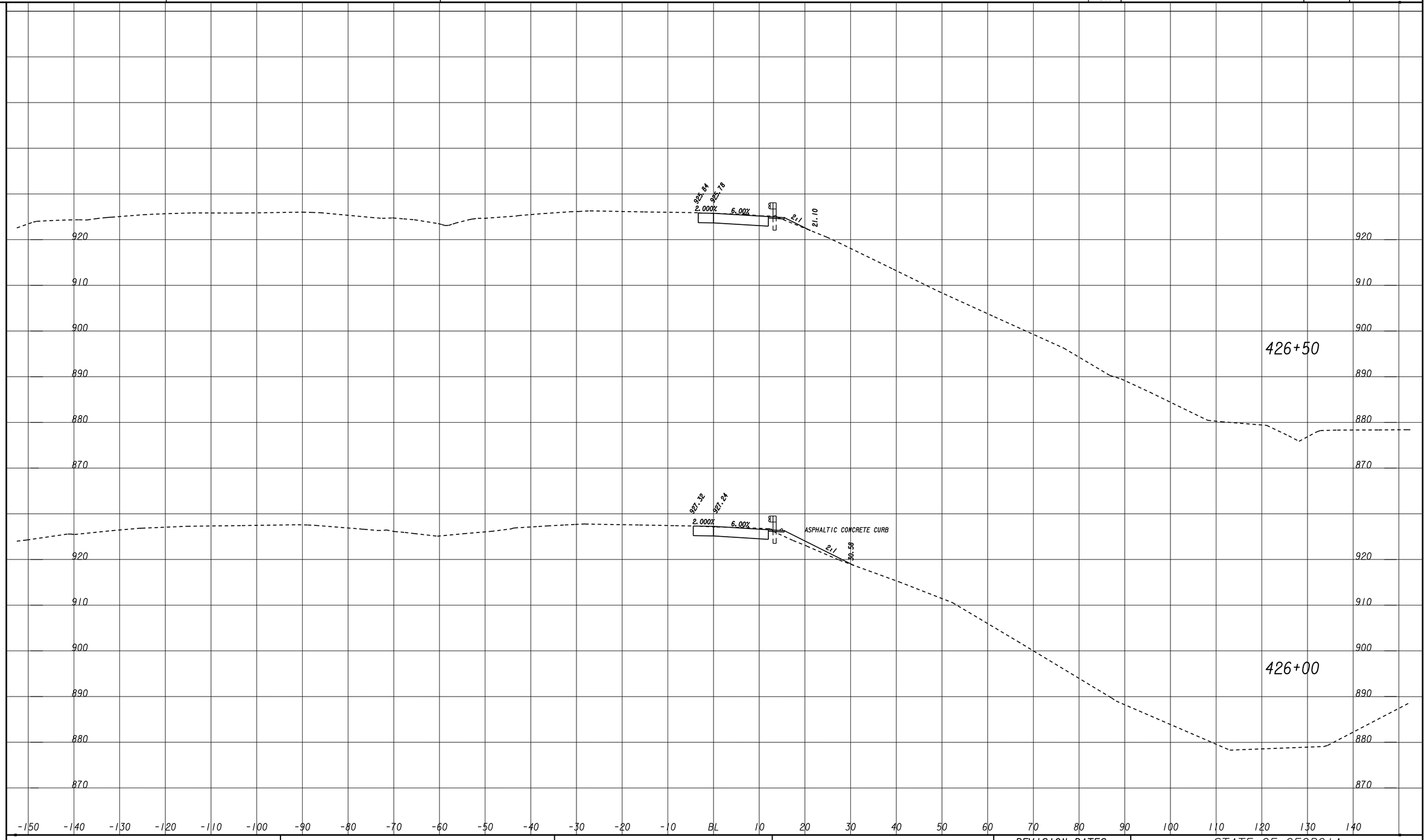
RAMP 'B'

DRAWING No. 23-085

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	277	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

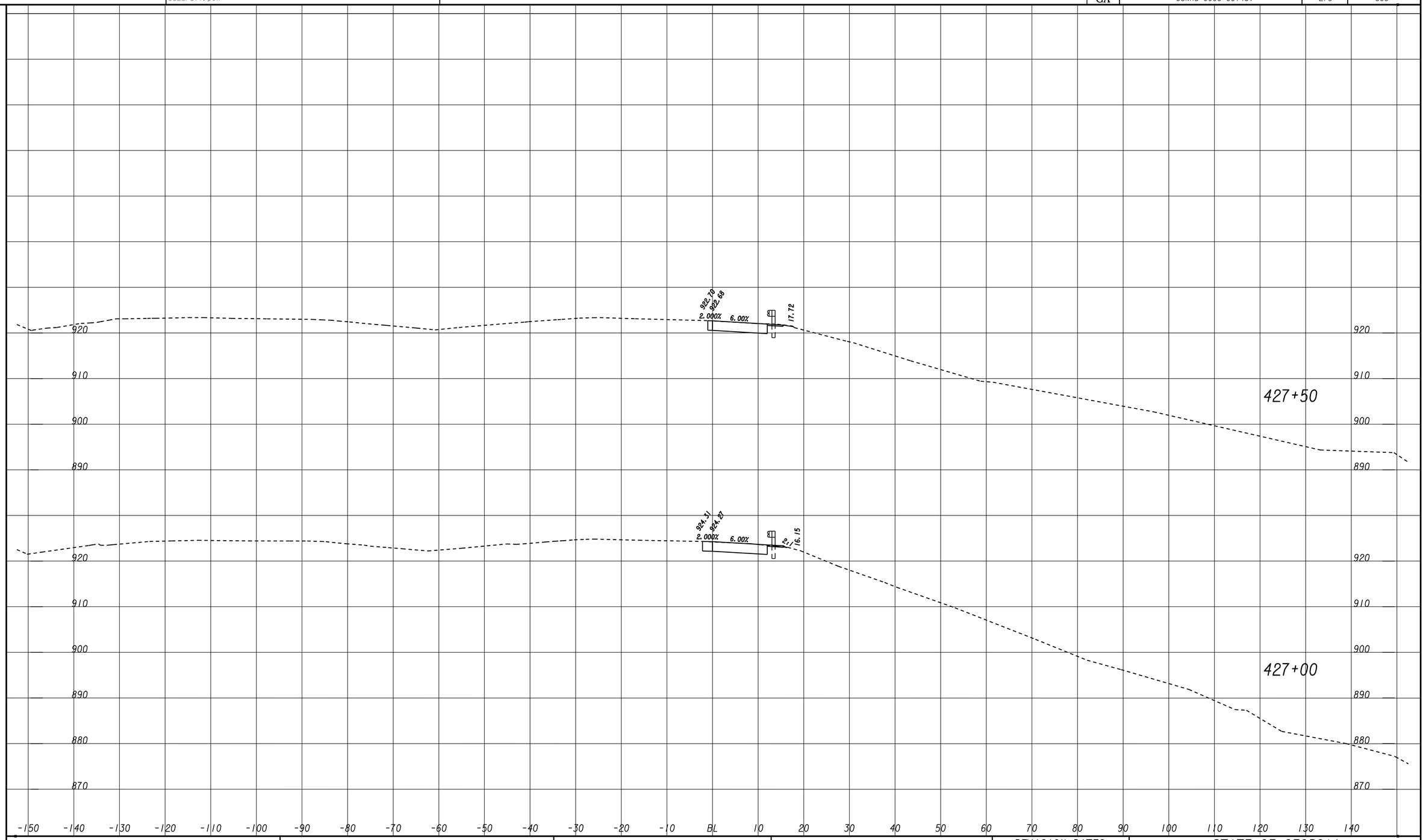
RAMP 'B'

DRAWING No.
23-086

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	278	668

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

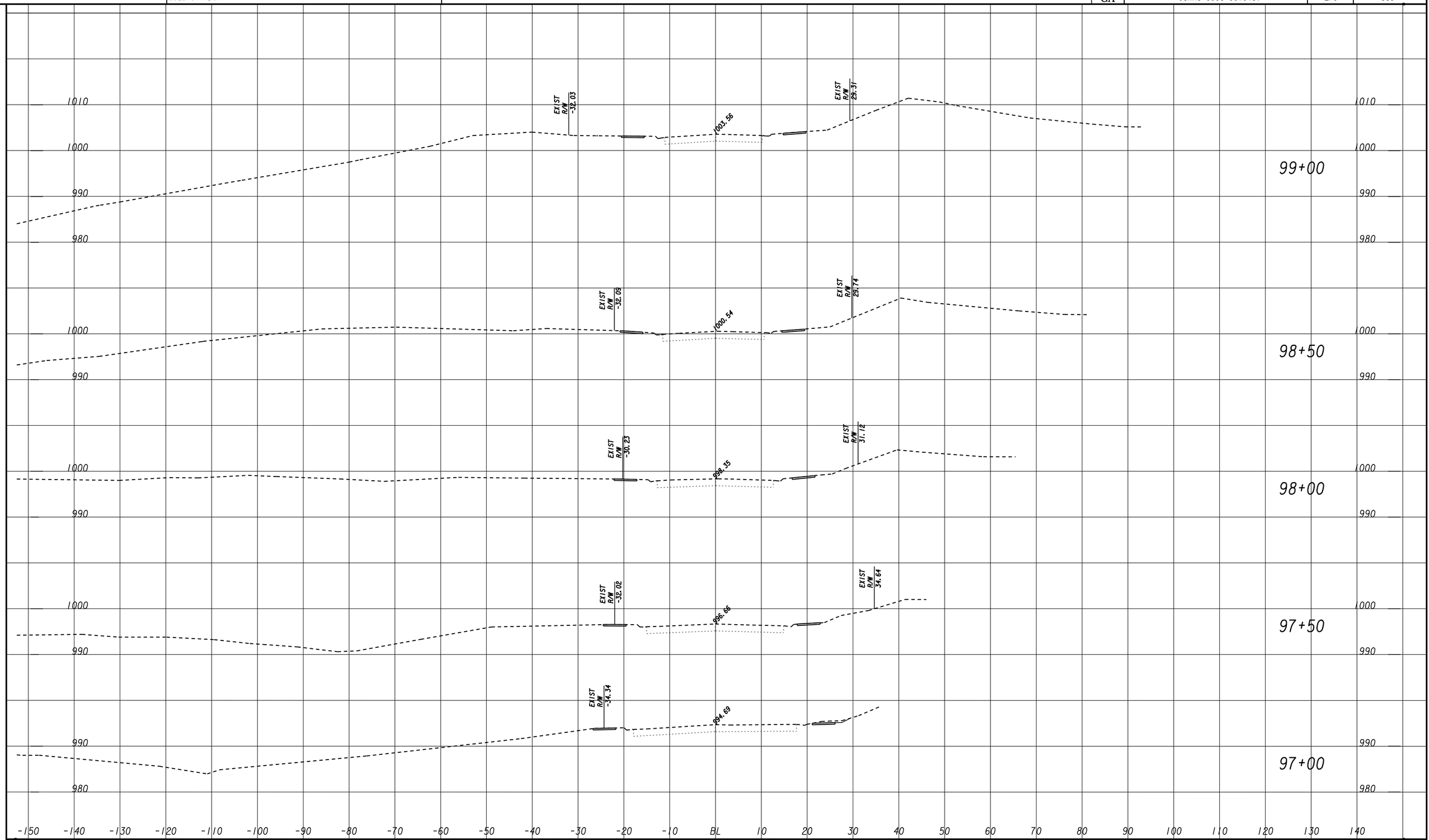
RAMP 'B'

DRAWING No. 23-087

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	279	668

RELEASED FOR CONSTRUCTION 12/02/10



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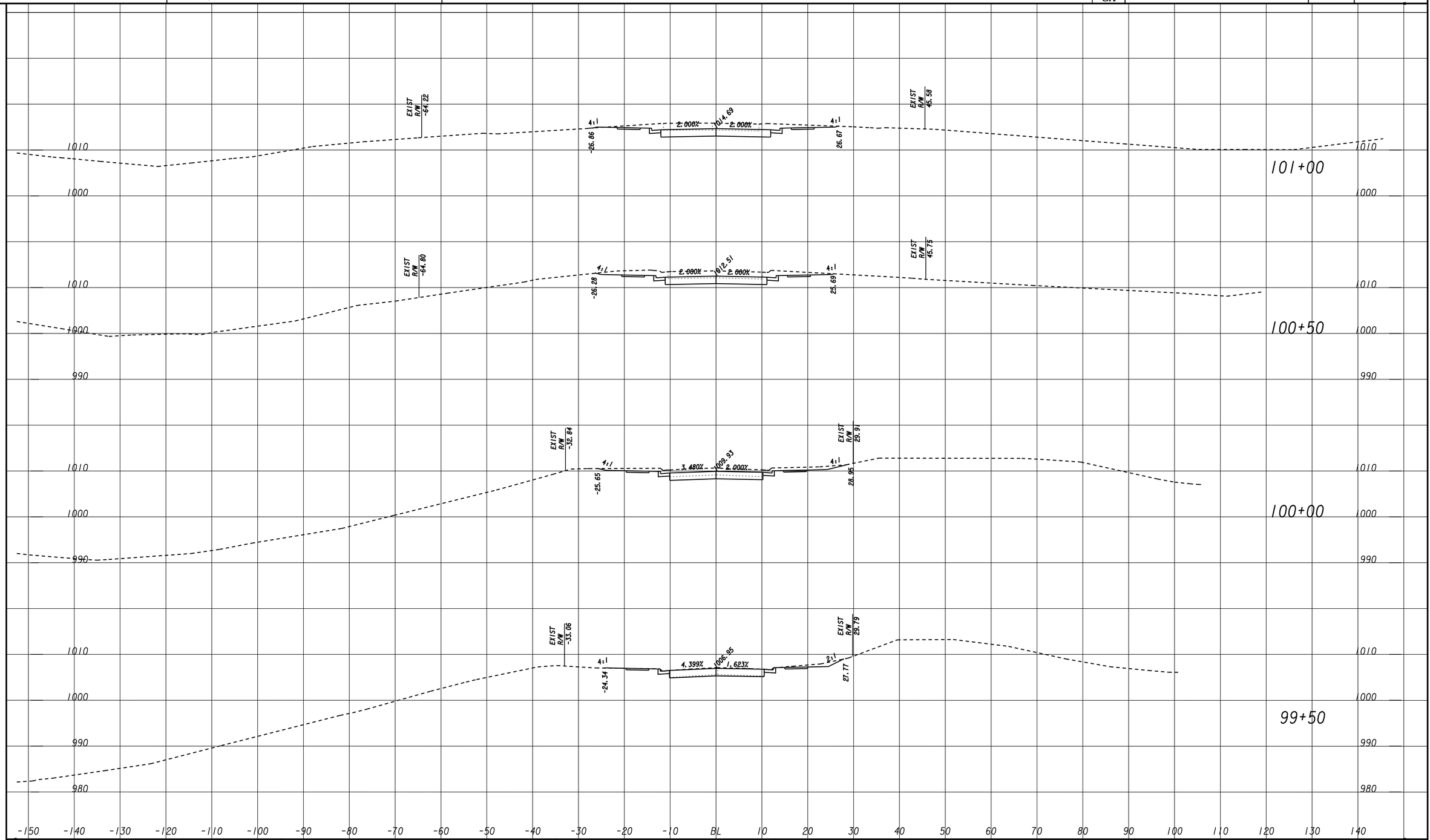
CROSS SECTIONS

RIDGEWALK PARKWAY

DRAWING No. 23-088

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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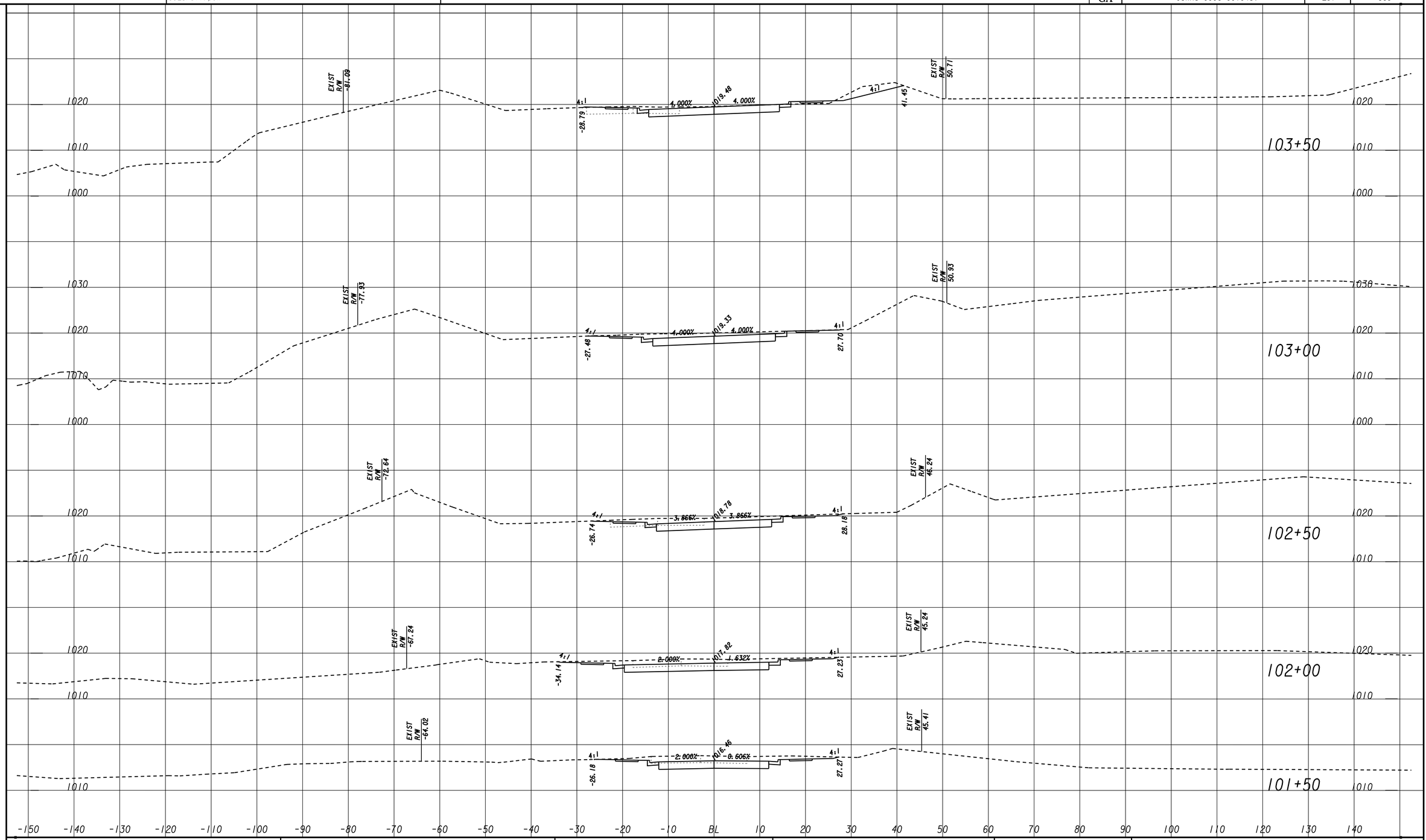
CROSS SECTIONS

RIDGEWALK PARKWAY

DRAWING No. 23-089

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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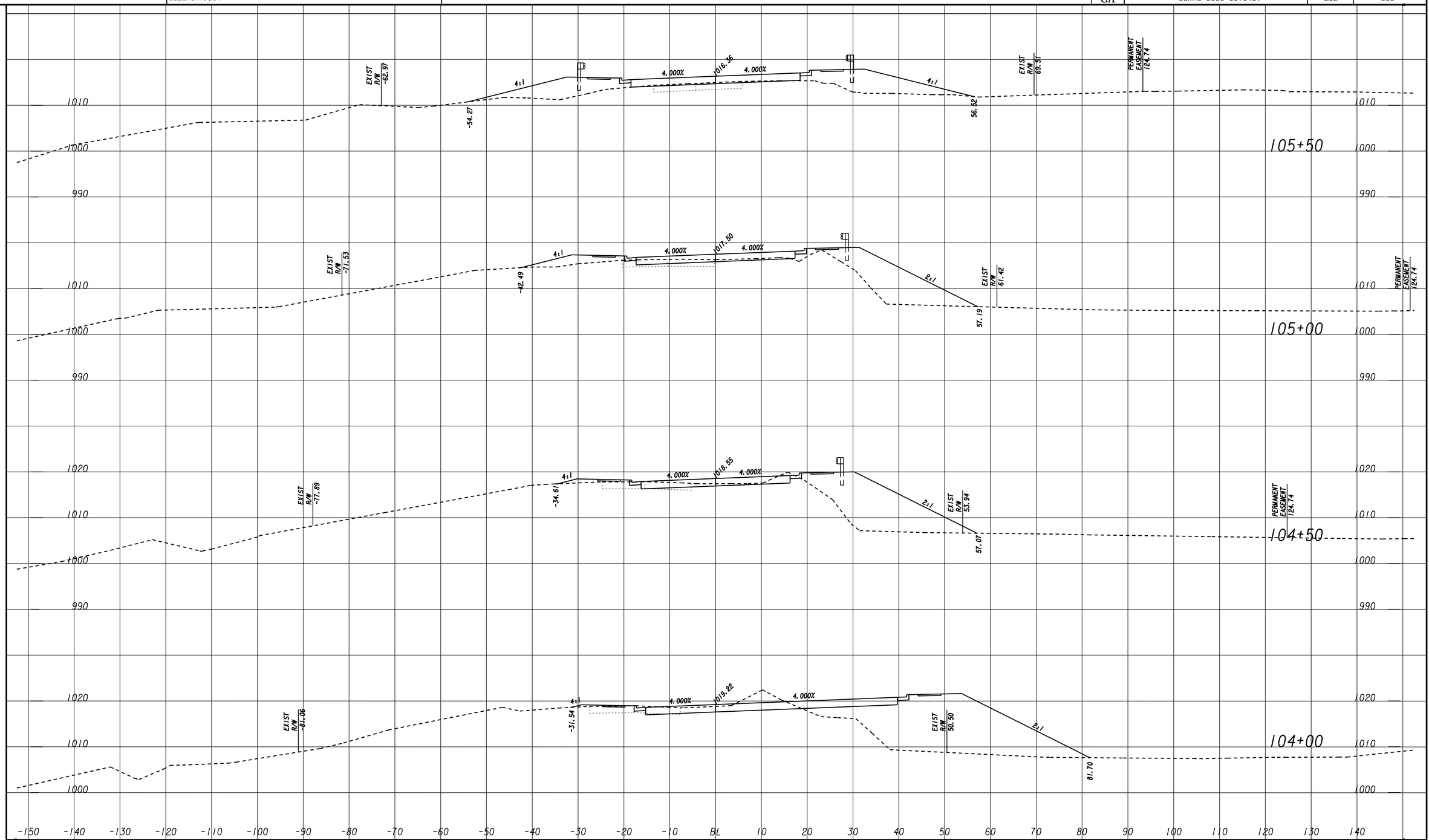
CROSS SECTIONS

RIDGEWALK PARKWAY

DRAWING No. 23-090

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

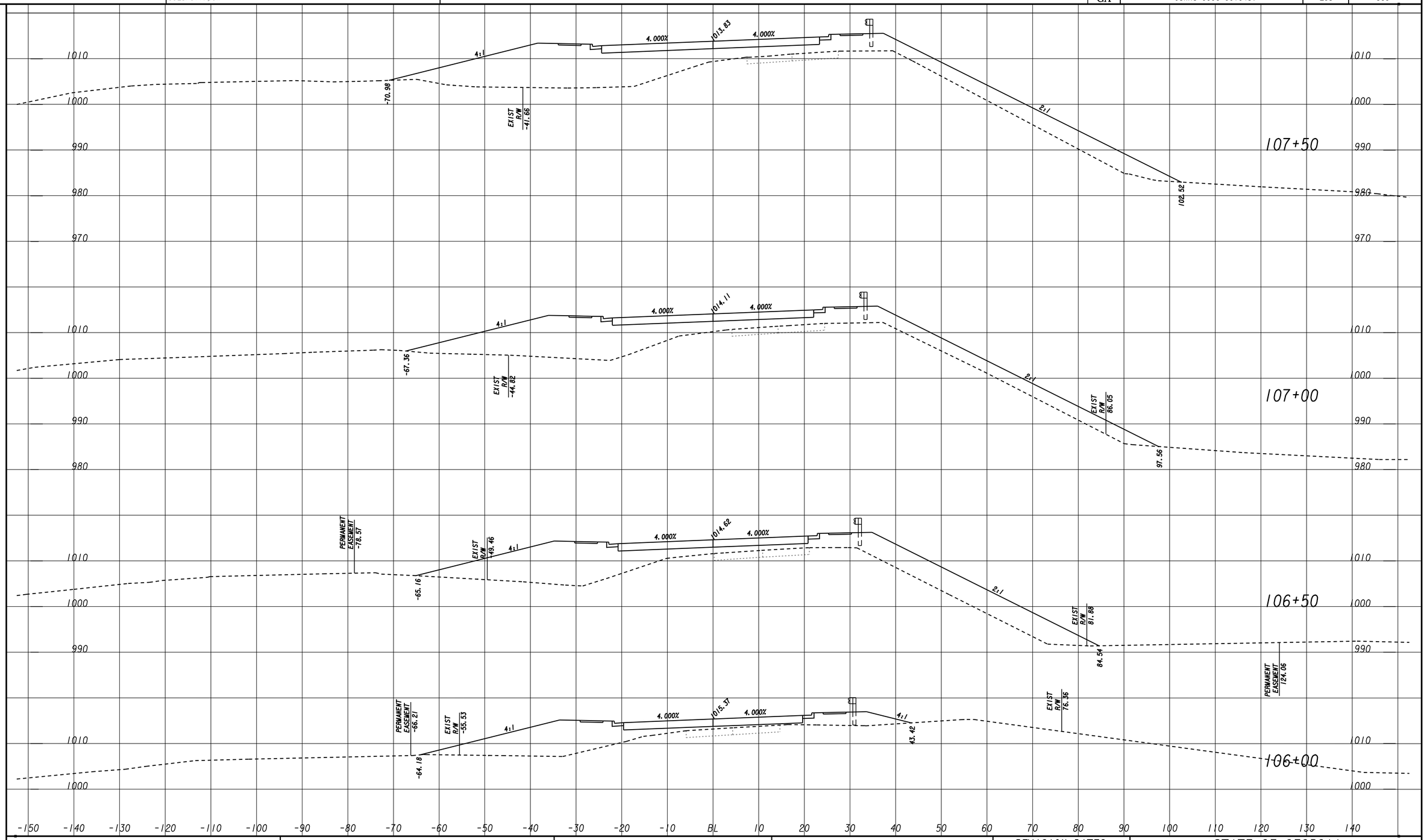
RIDGEWALK PARKWAY

DRAWING No. 23-091

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	283	668

RELEASED FOR CONSTRUCTION 12/02/10



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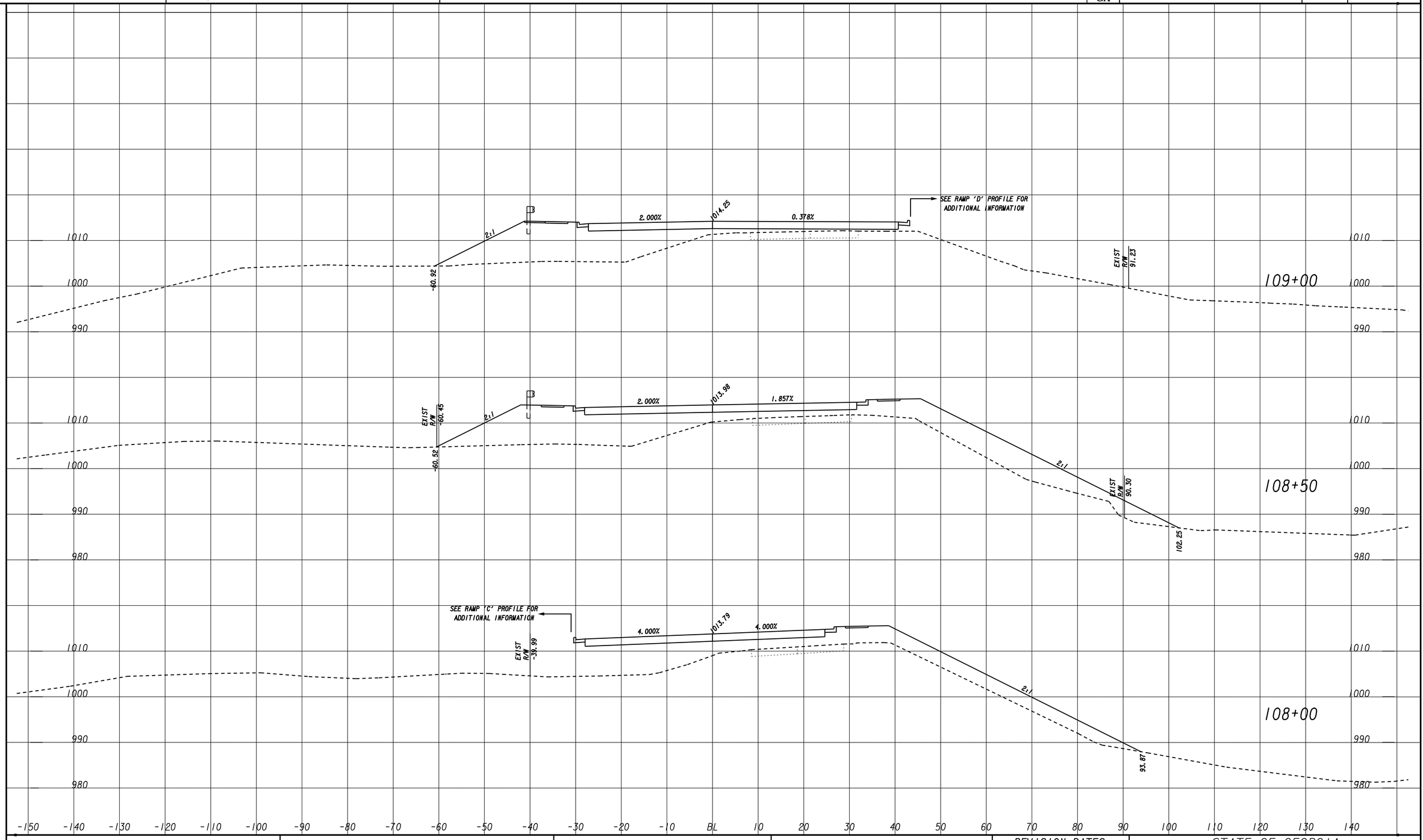
RIDGEWALK PARKWAY

DRAWING No. 23-092

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	284	668

RELEASED FOR CONSTRUCTION 12/02/10



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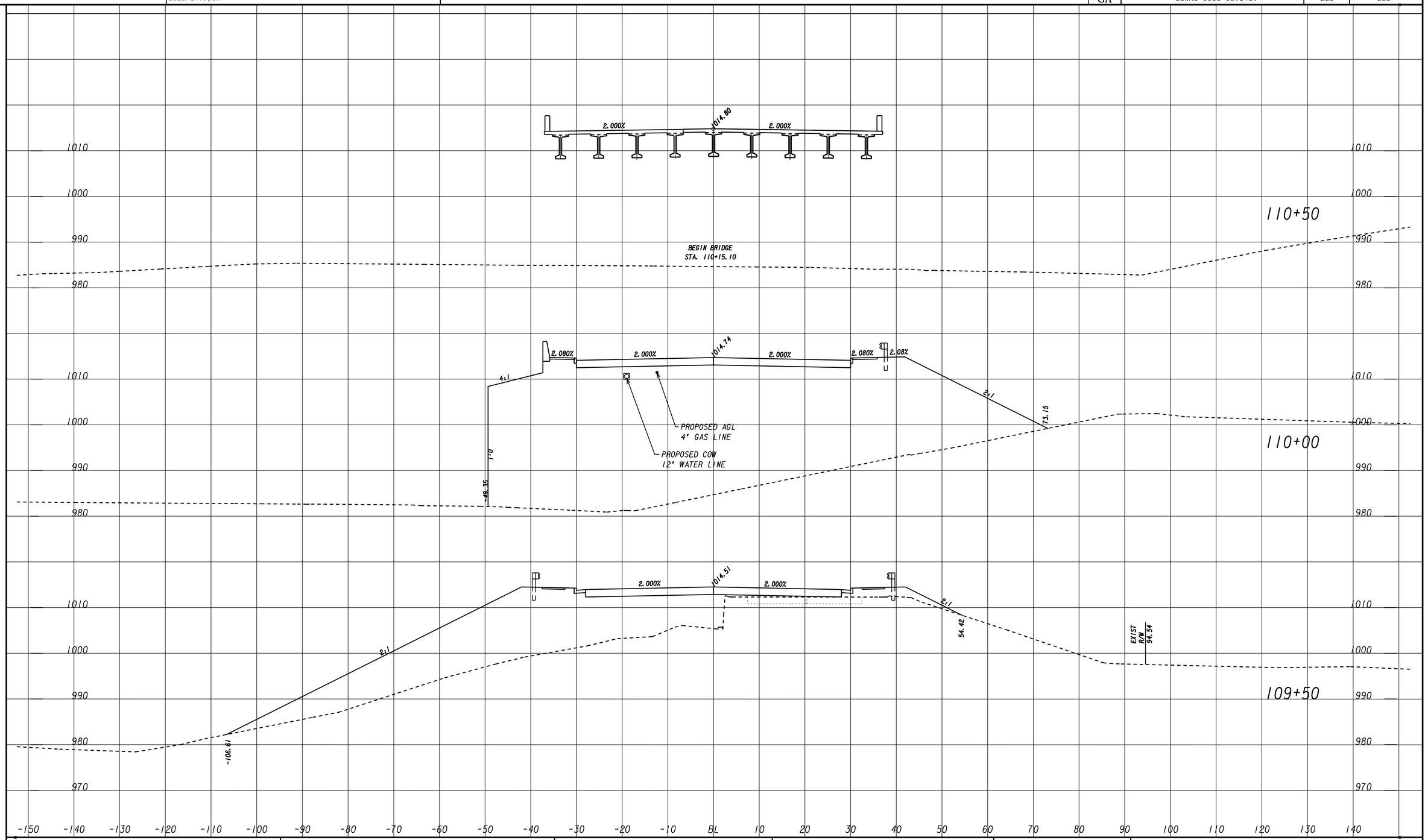
RIDGEWALK PARKWAY

DRAWING No. 23-093

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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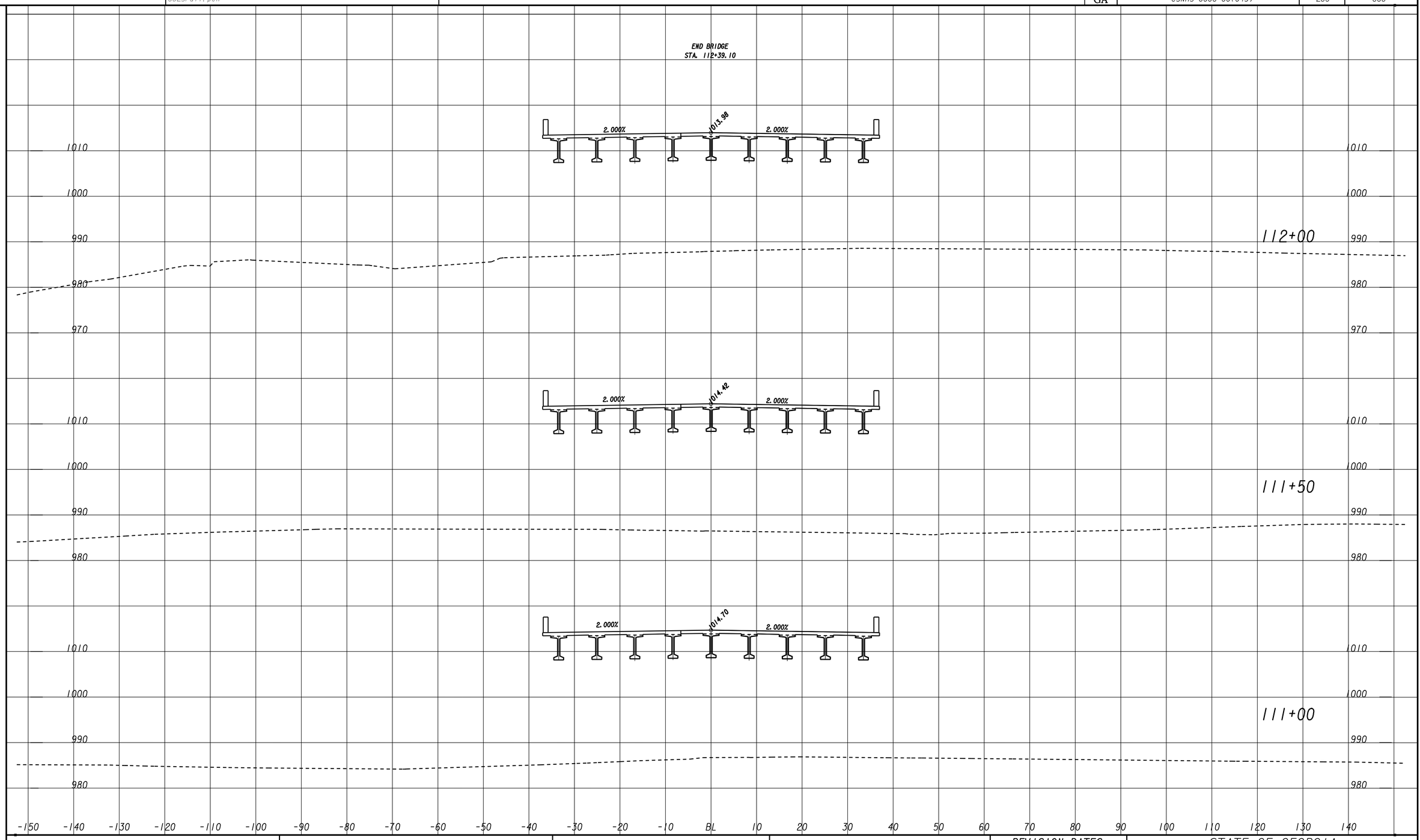
RIDGEWALK PARKWAY

DRAWING No. 23-094

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	286	668

RELEASED FOR CONSTRUCTION 12/02/10



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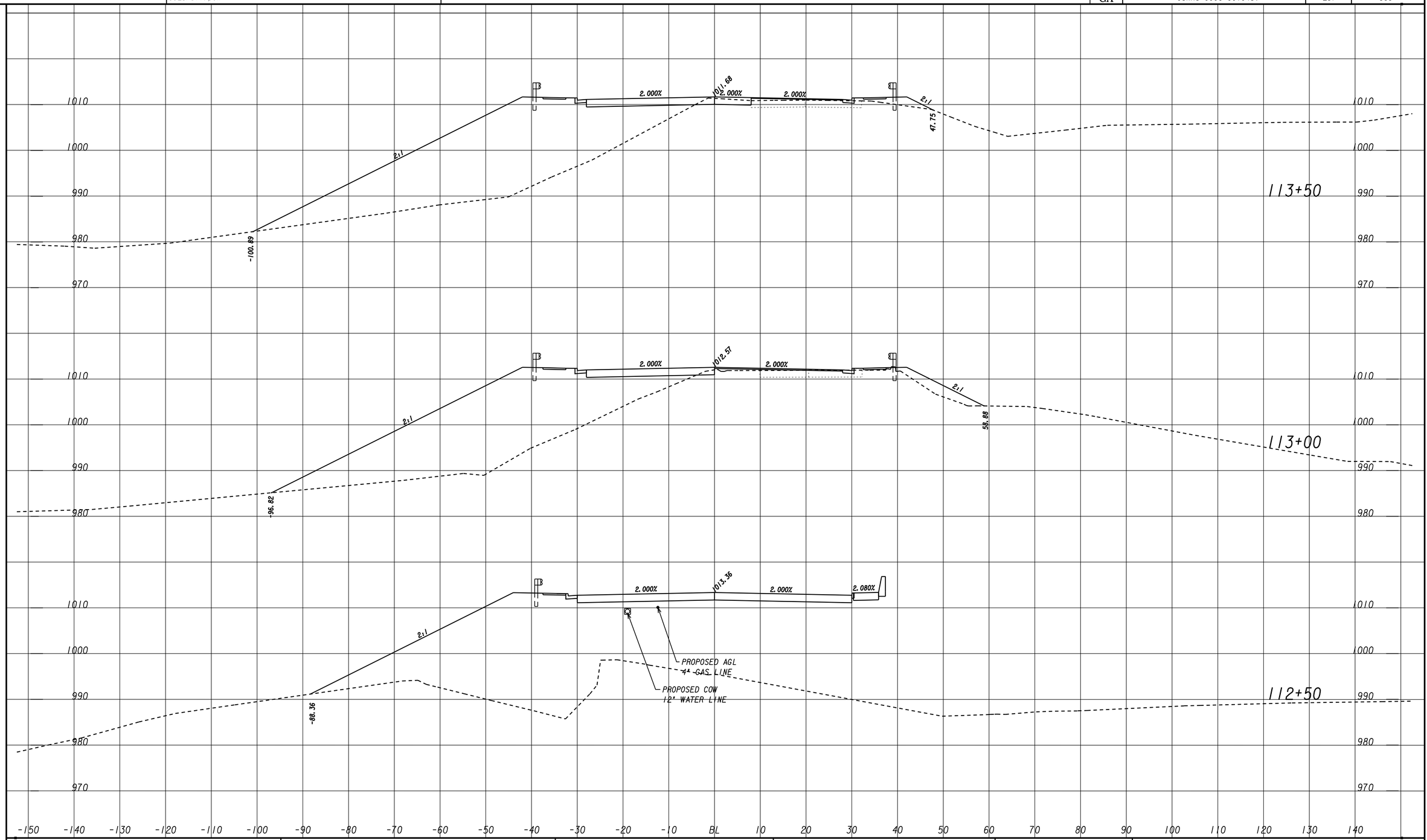
RIDGEWALK PARKWAY

DRAWING No. 23-095

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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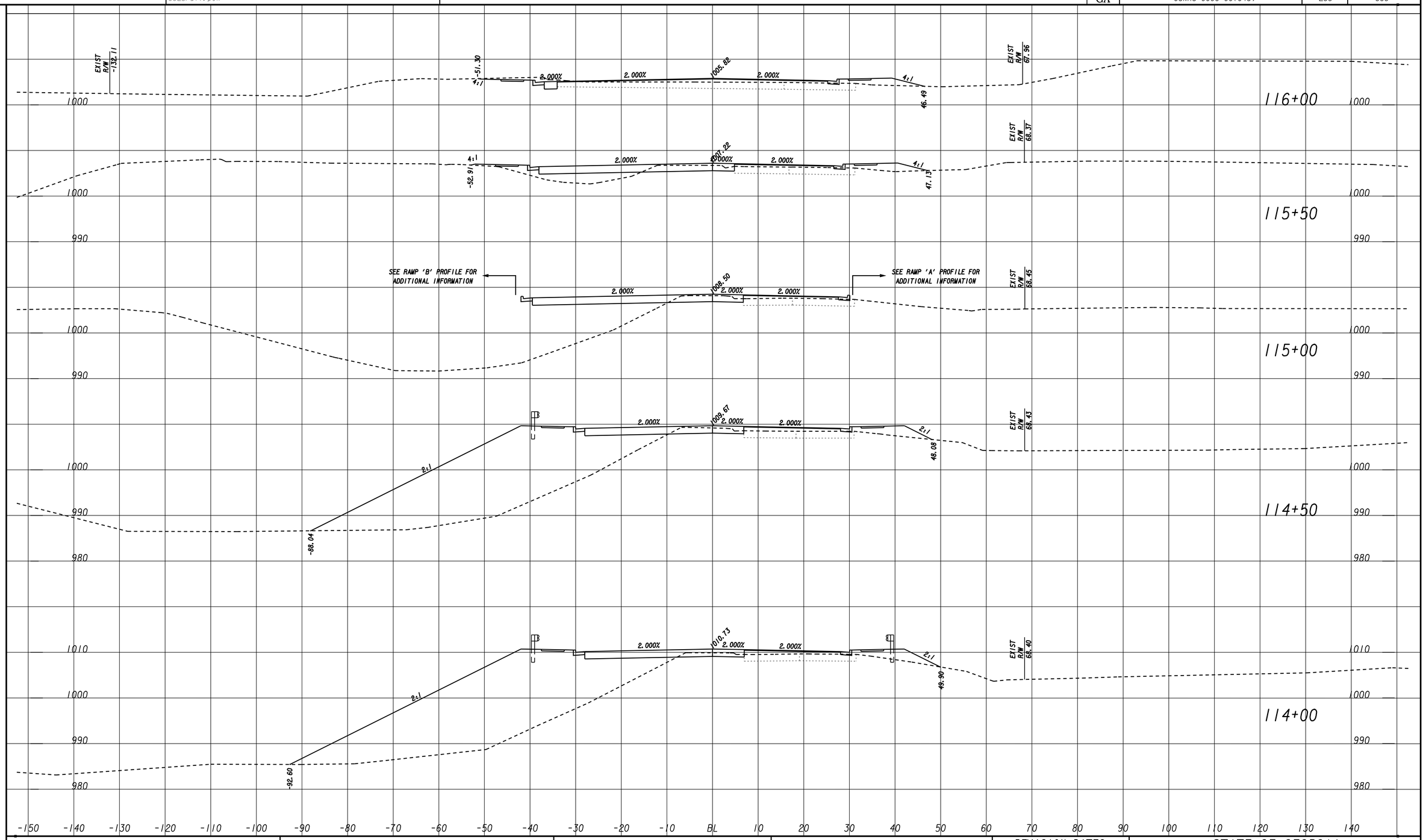
CROSS SECTIONS

RIDGEWALK PARKWAY

DRAWING No. 23-096

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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CROSS SECTIONS

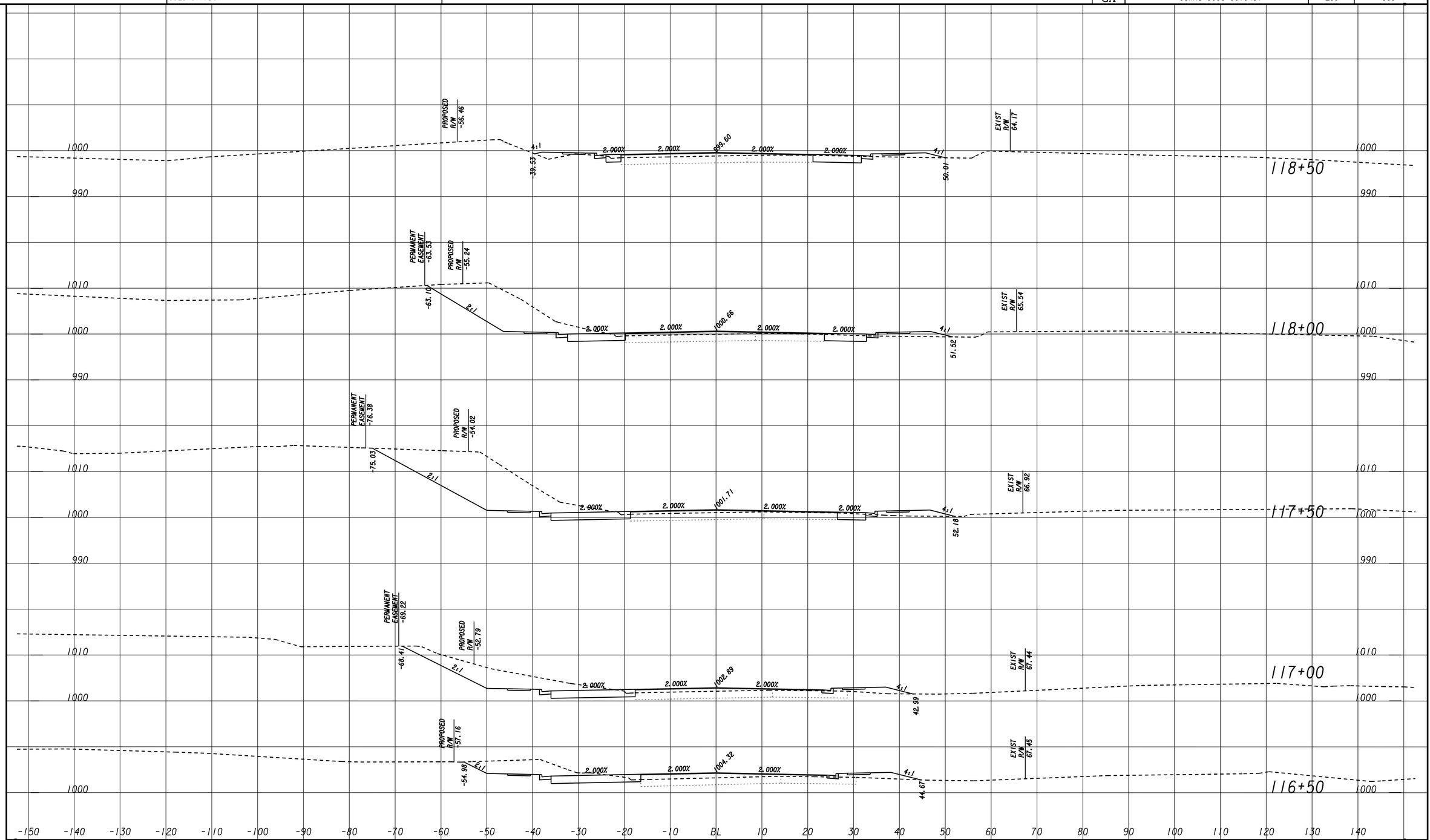
RIDGEWALK PARKWAY

DRAWING No. 23-097

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	289	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

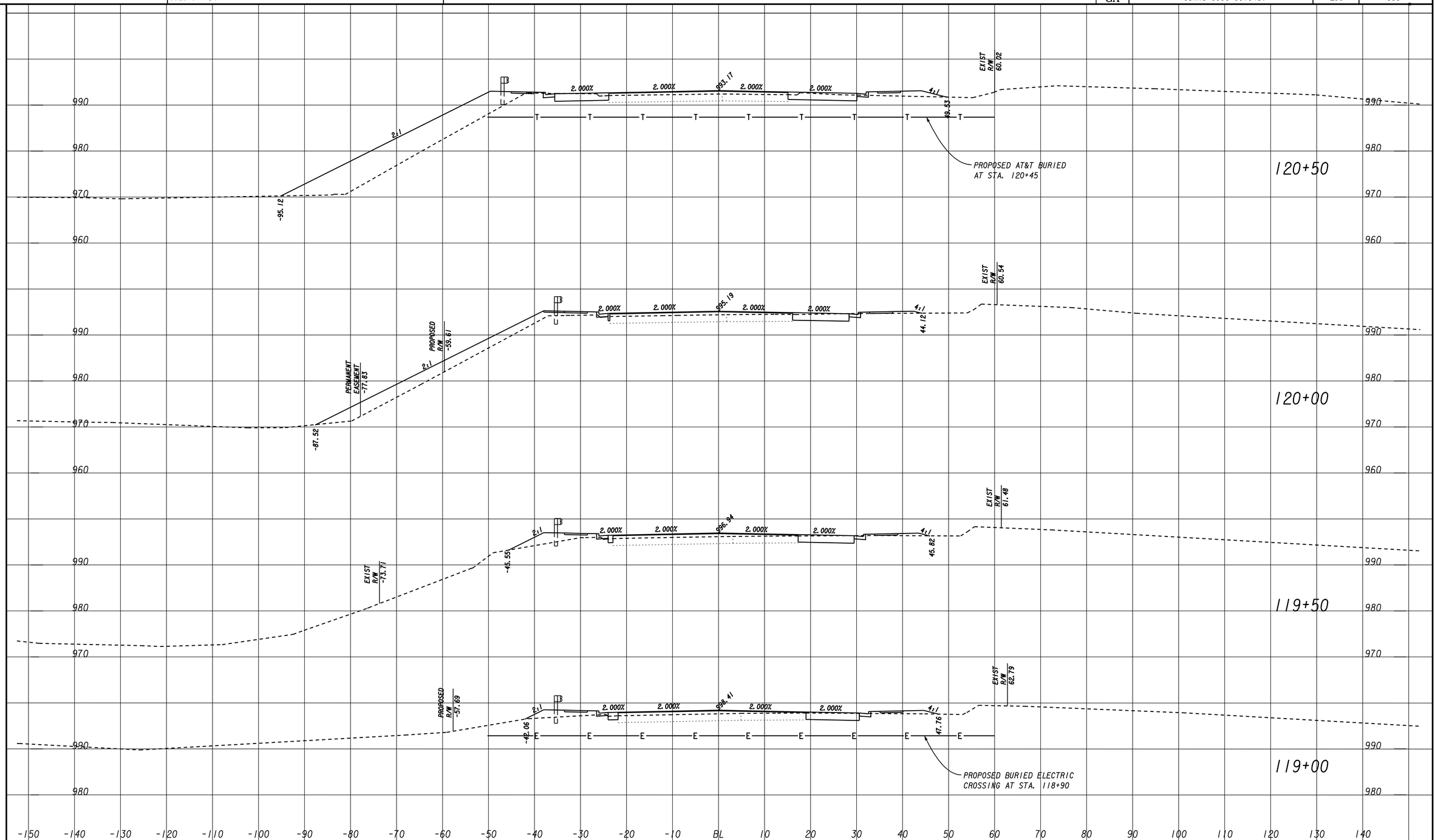
CROSS SECTIONS

RIDGEWALK PARKWAY

DRAWING No. 23-098

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

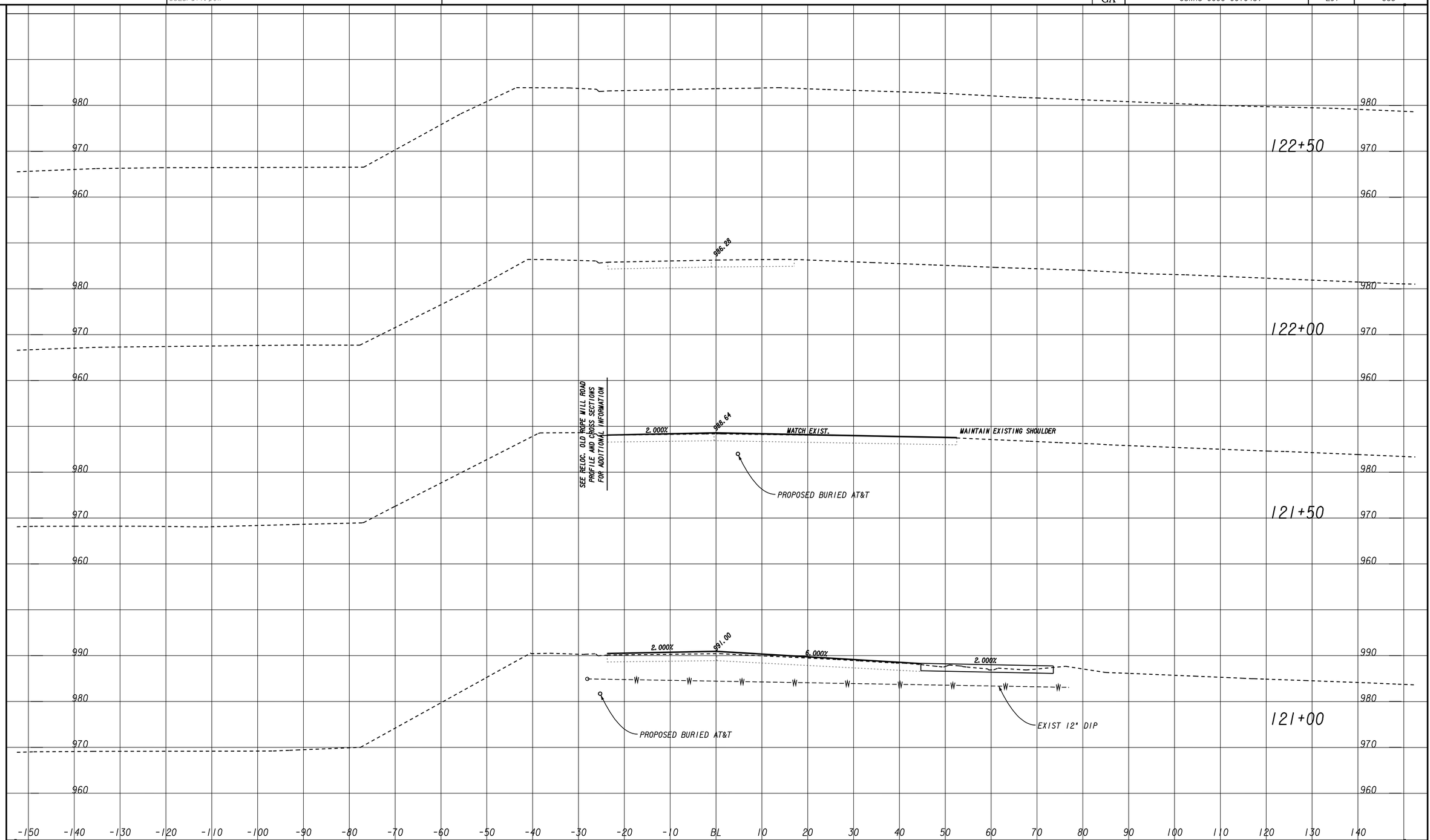
RIDGEWALK PARKWAY

DRAWING No. 23-099

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	291	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

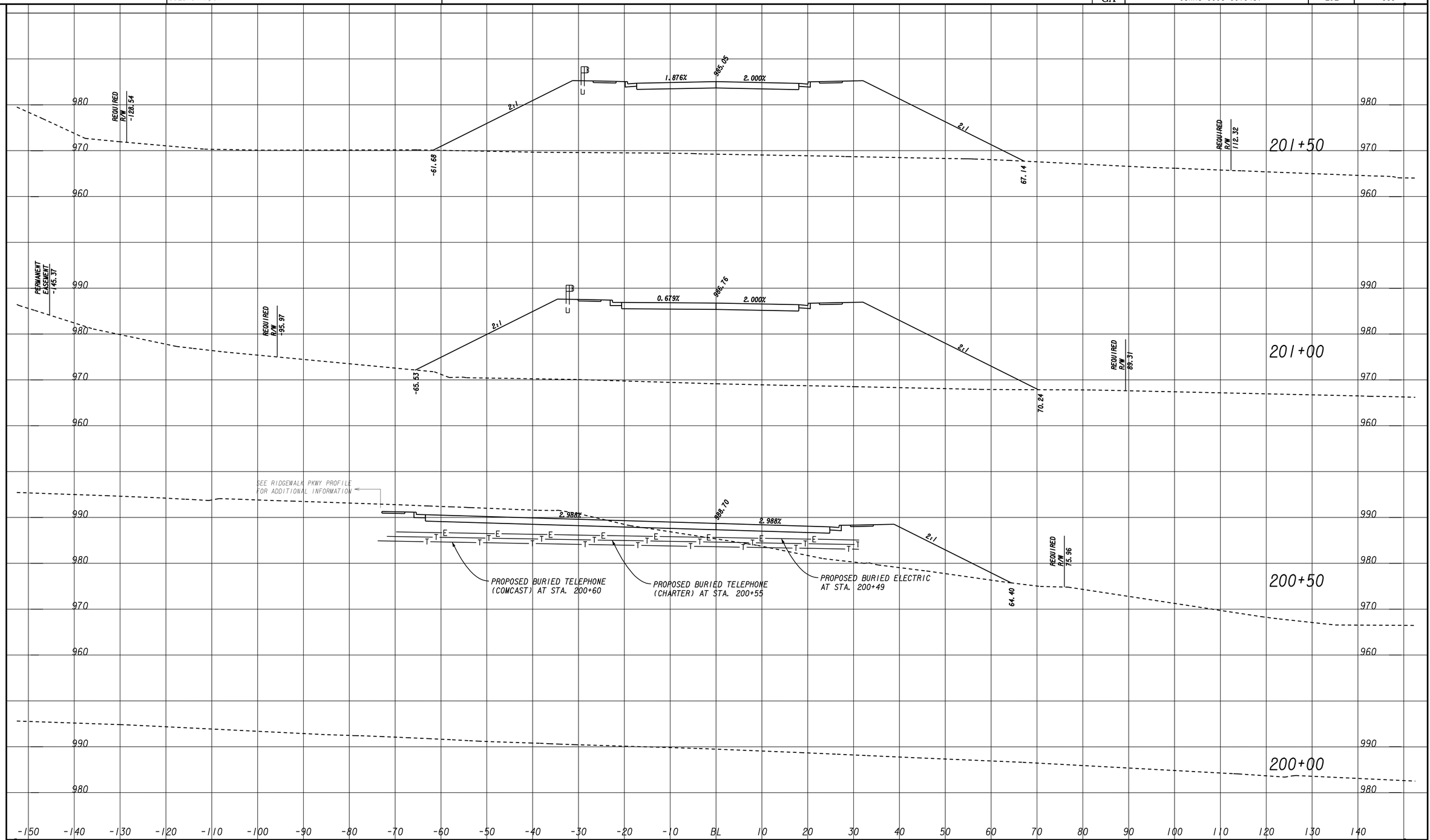
RIDGEWALK PARKWAY

DRAWING No. 23-100

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	292	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

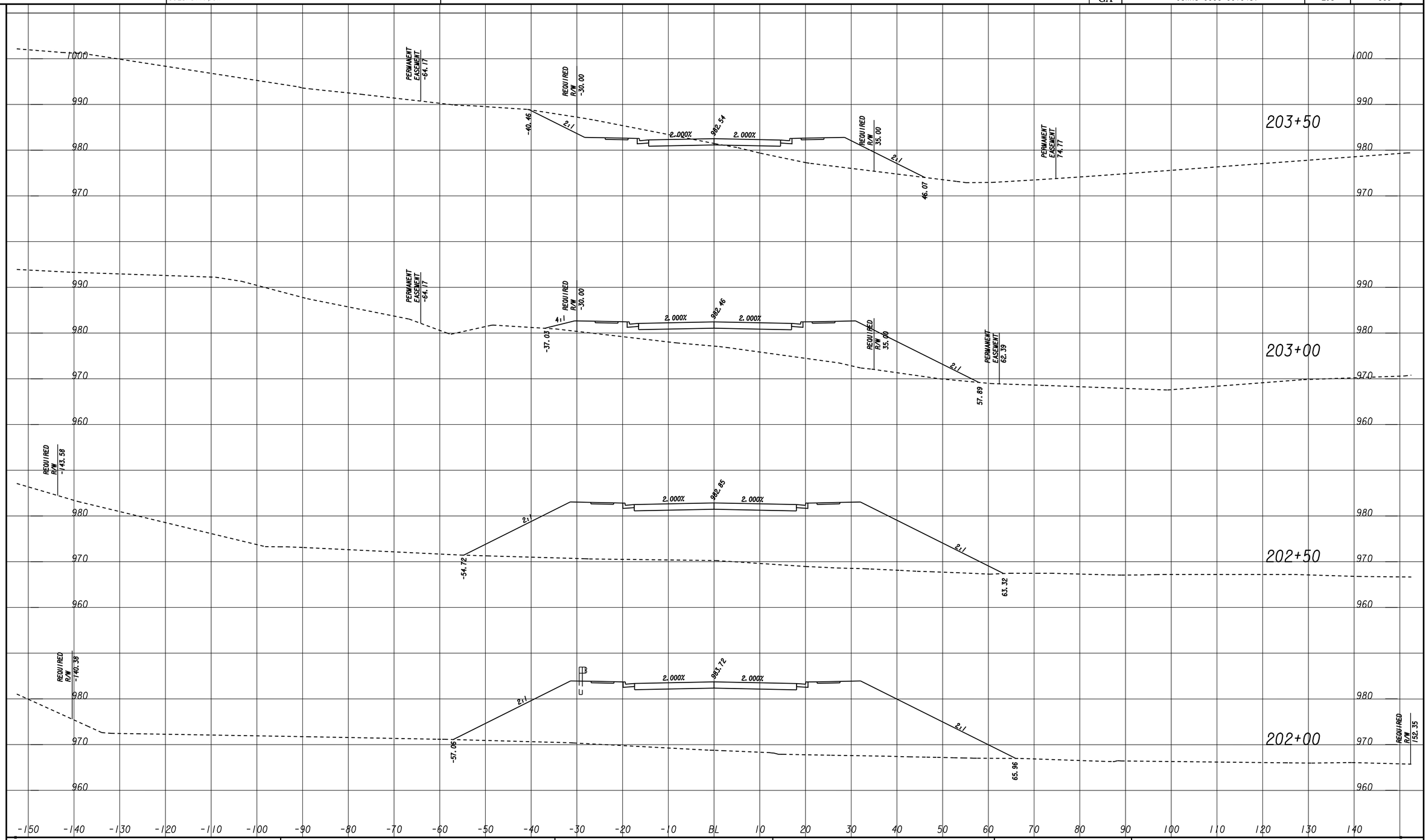
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-101

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

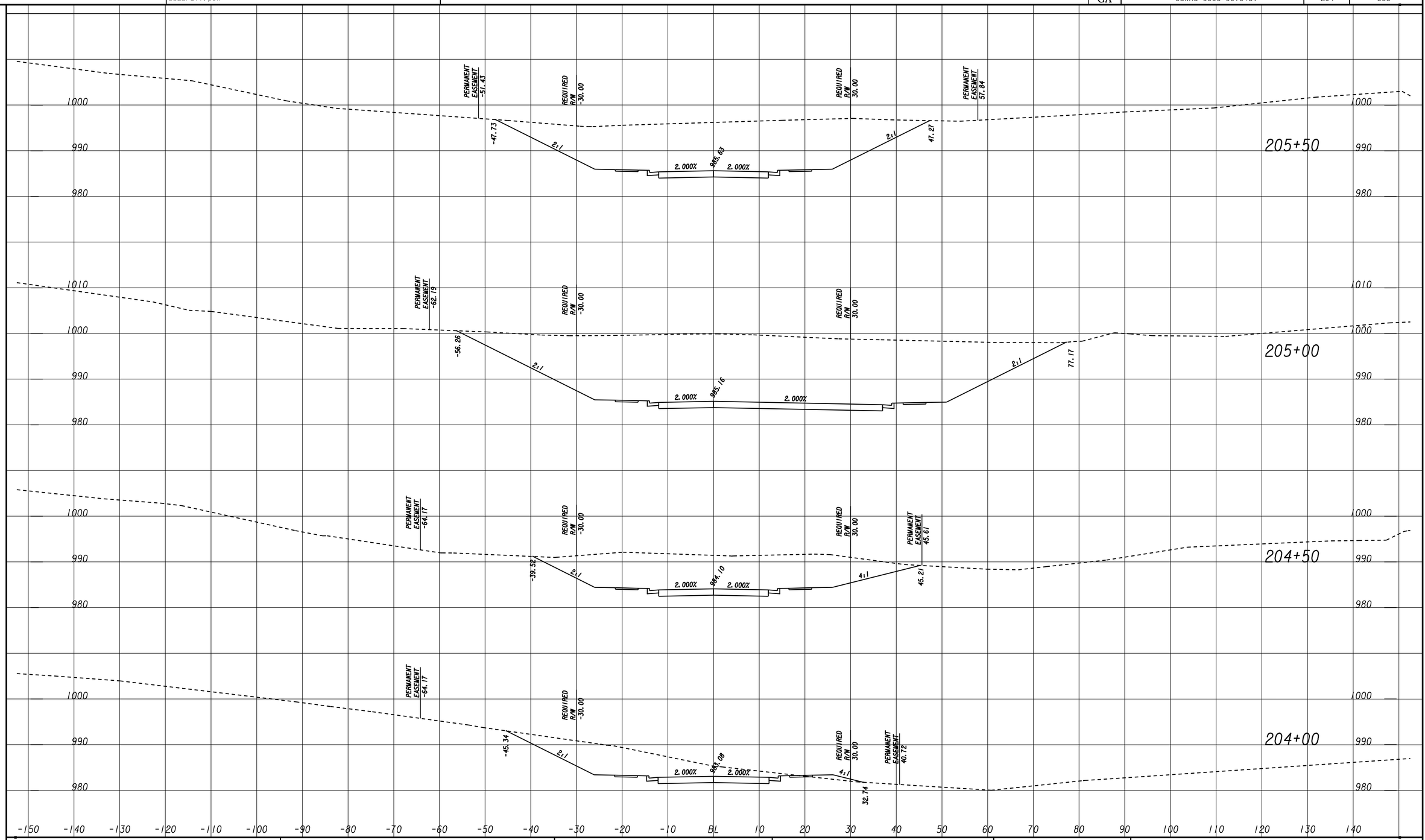
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-102

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

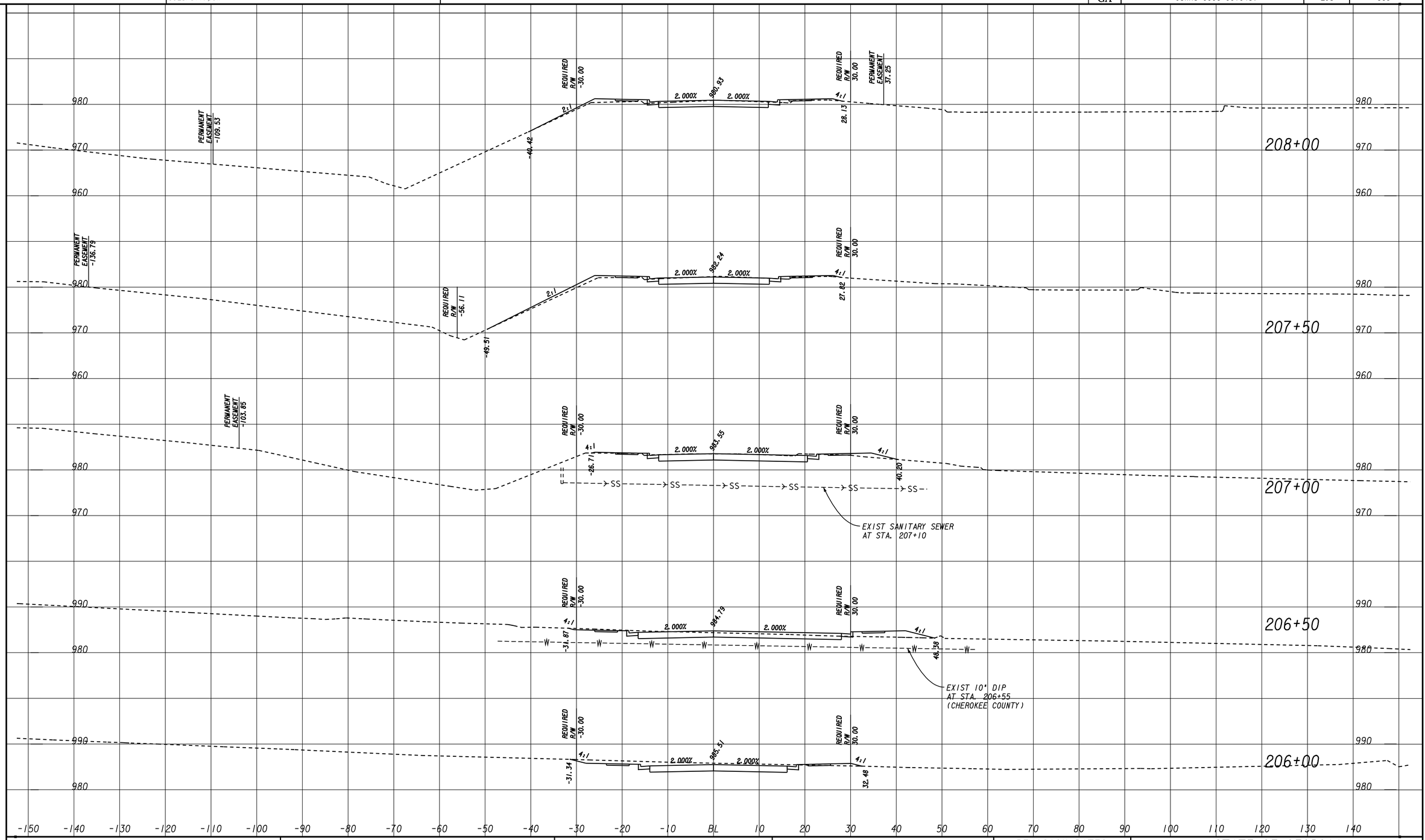
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-103

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

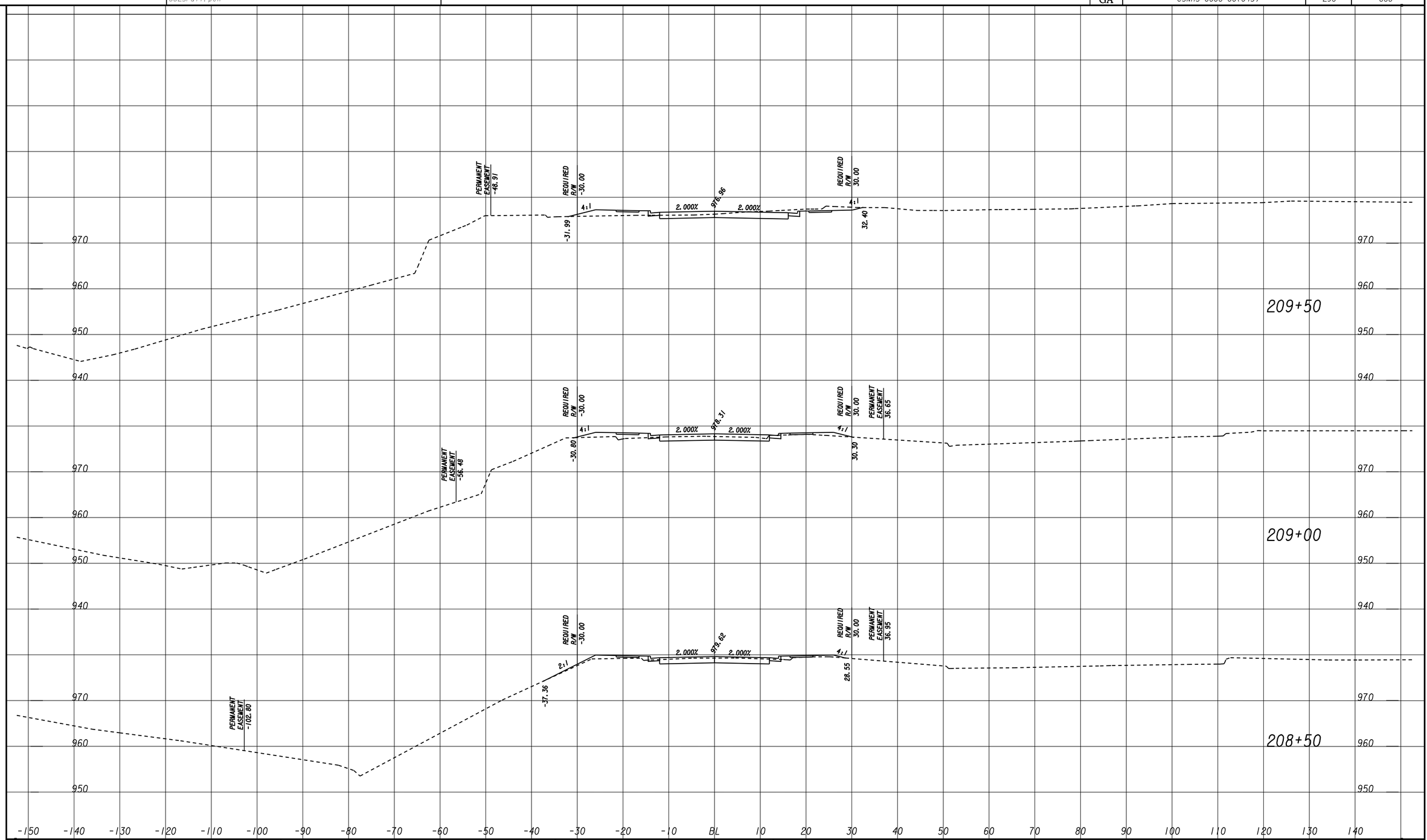
RELOC. ROPE MILL ROAD

DRAWING No. 23-104

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	296	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

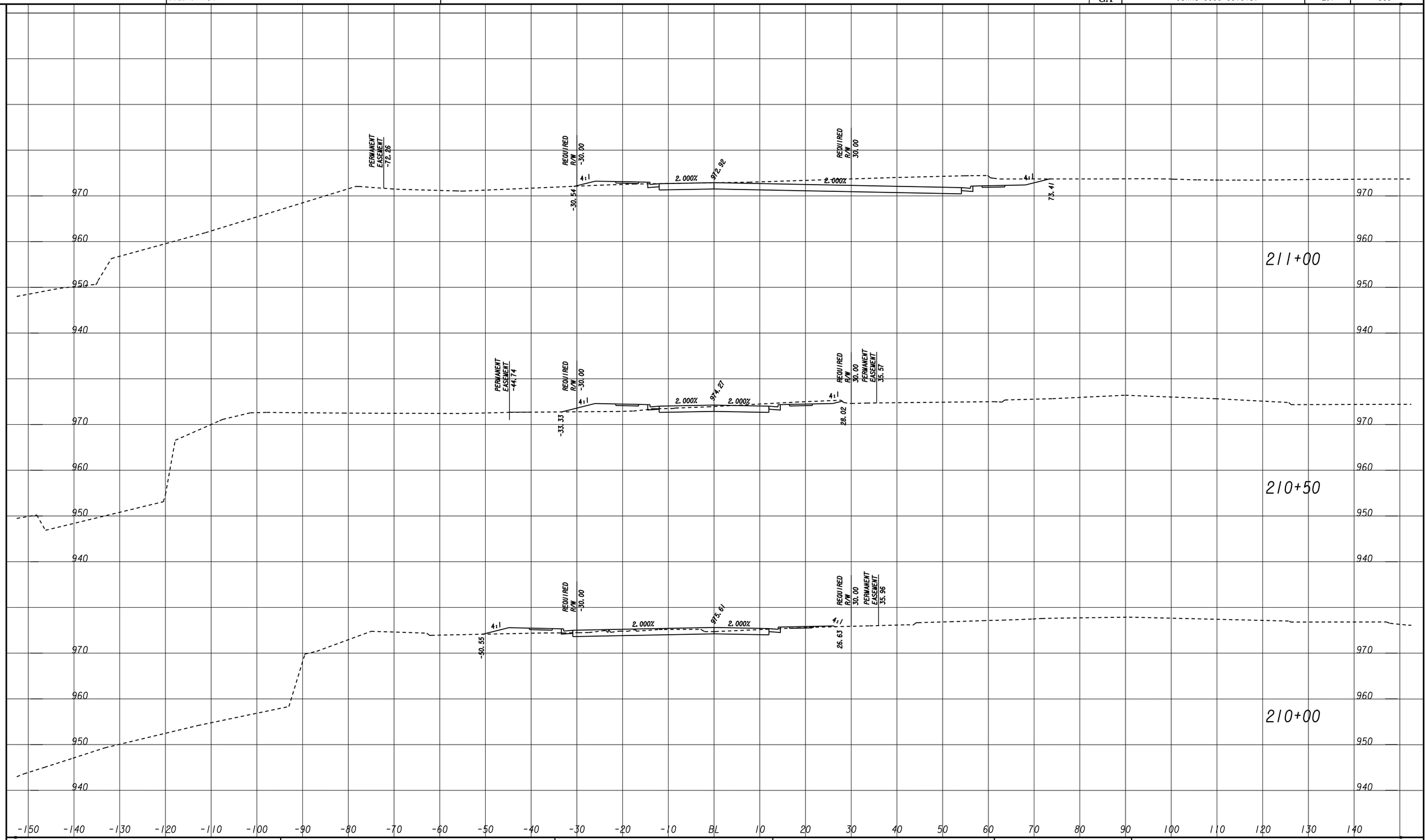
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-105

3//2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

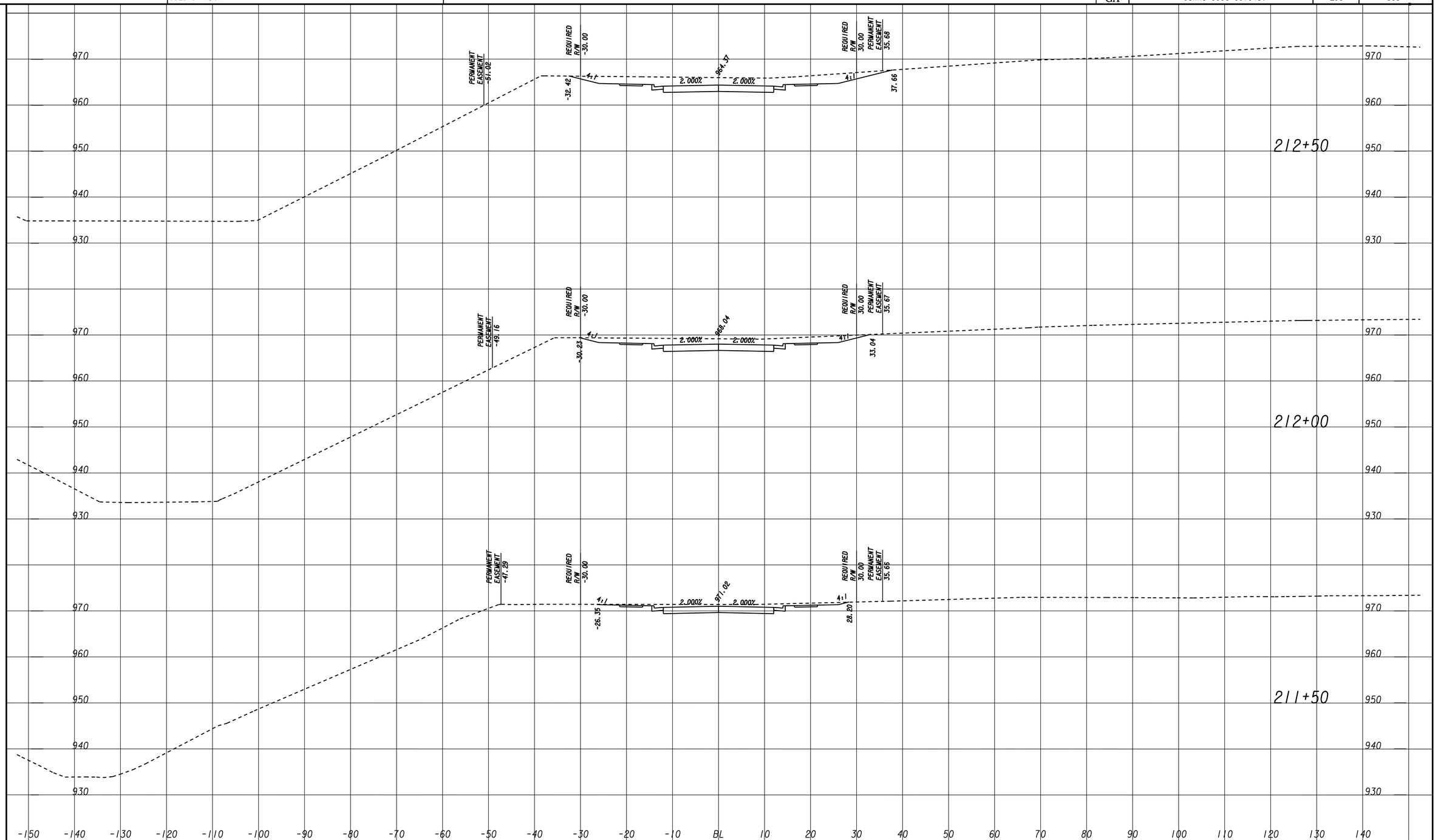
RELOC. ROPE MILL ROAD

DRAWING No. 23-106

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	298	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

THE LPA GROUP TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
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(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

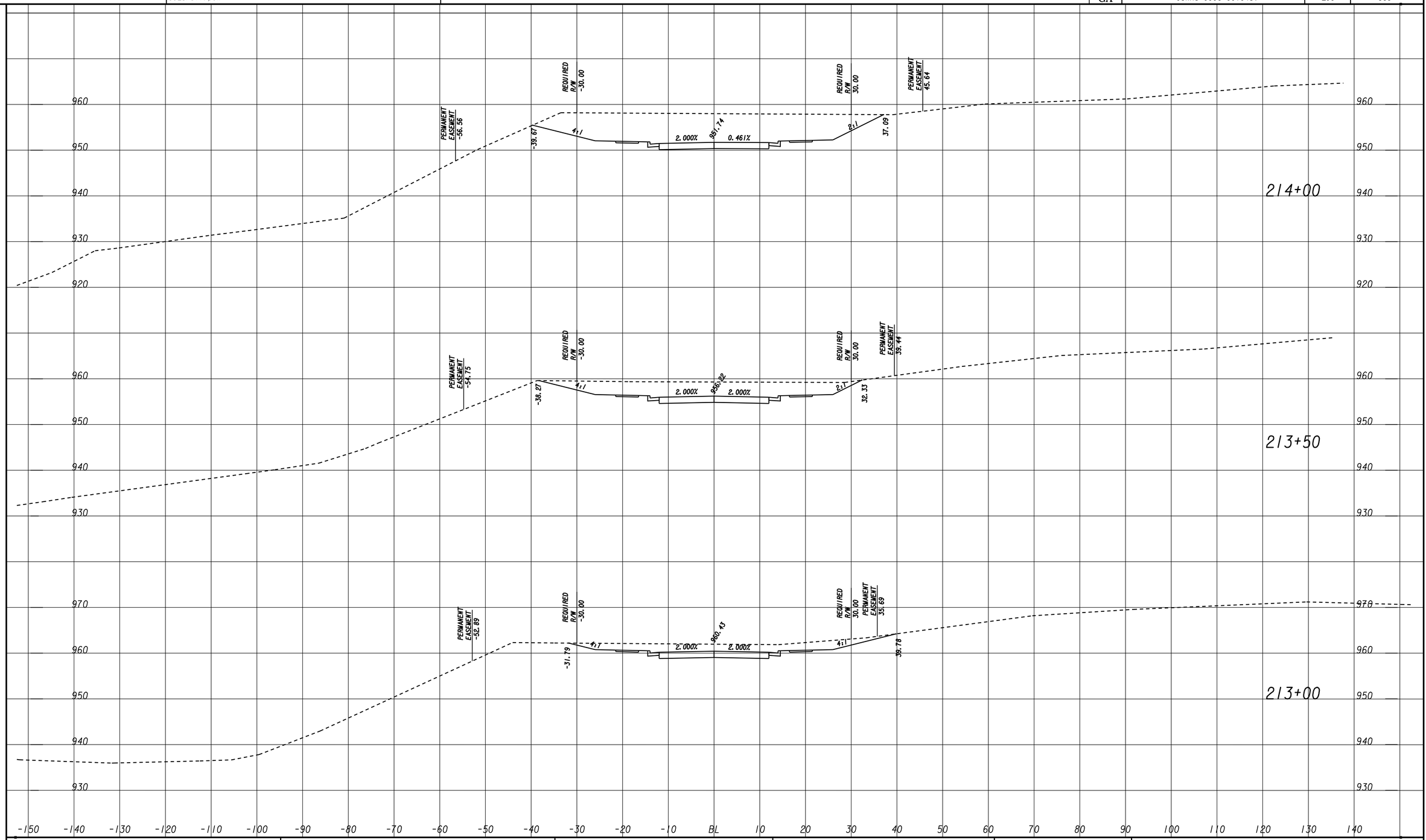
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-107

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

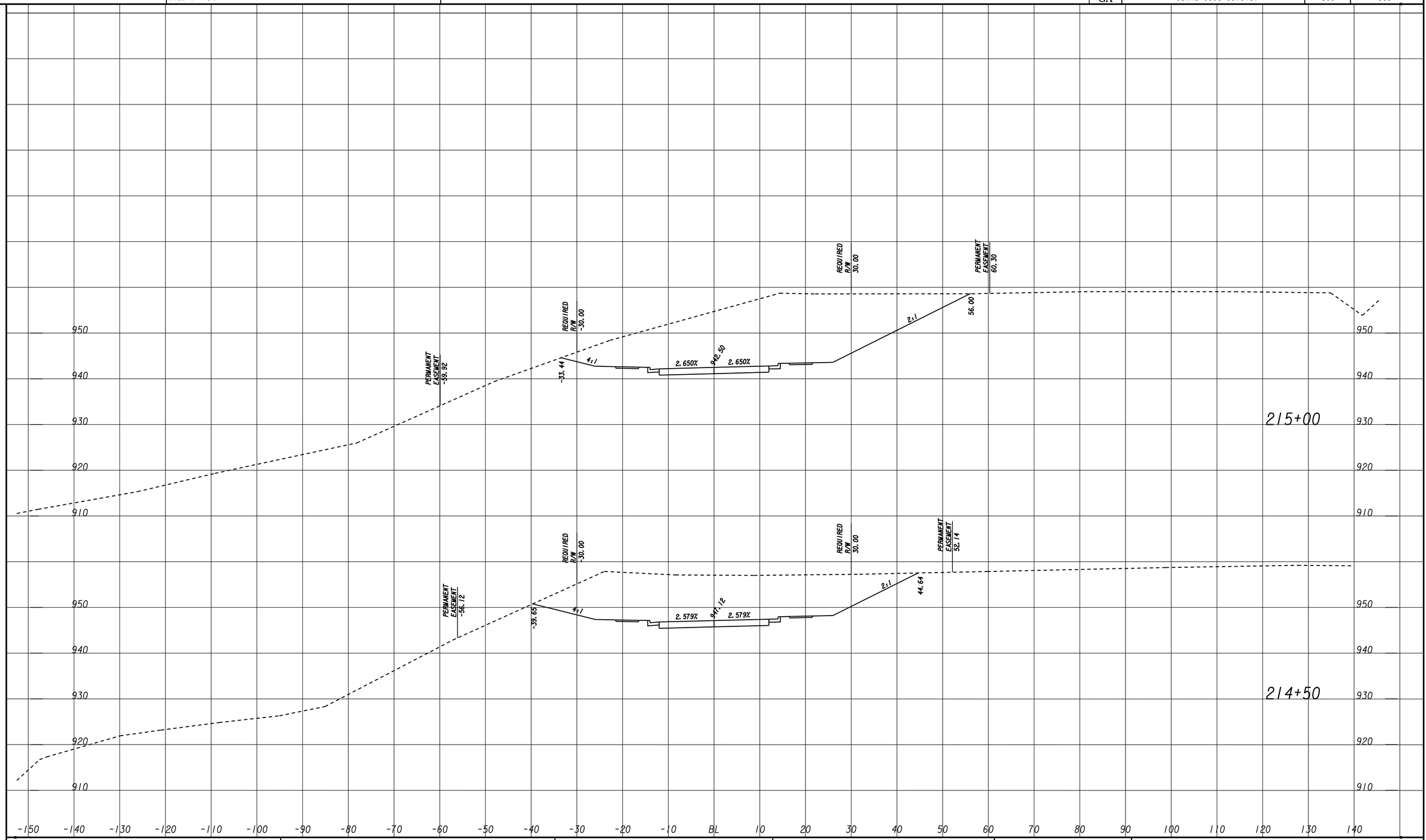
RELOC. ROPE MILL ROAD

DRAWING No. 23-108

3/1/2007 SUKSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	300	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

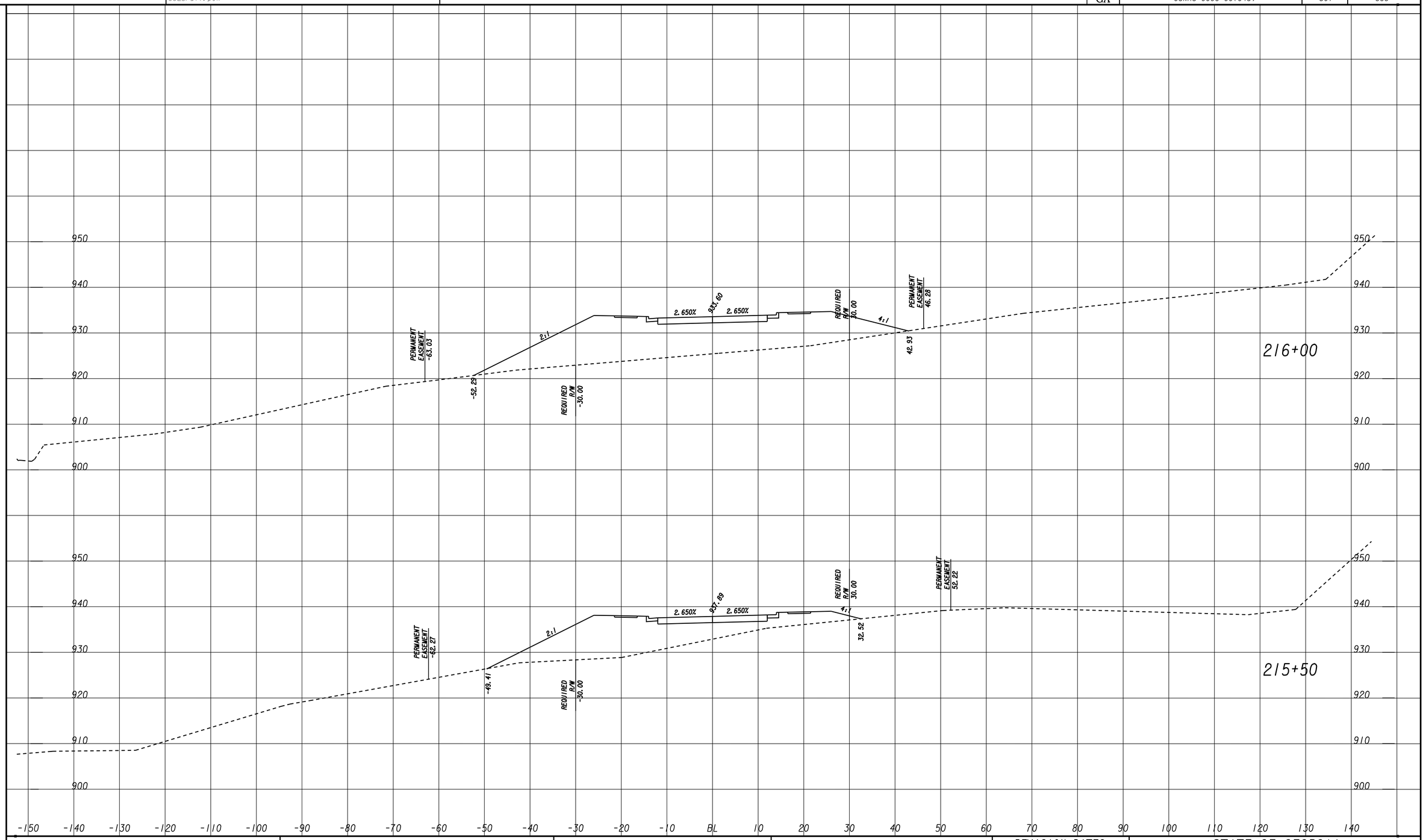
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-109

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

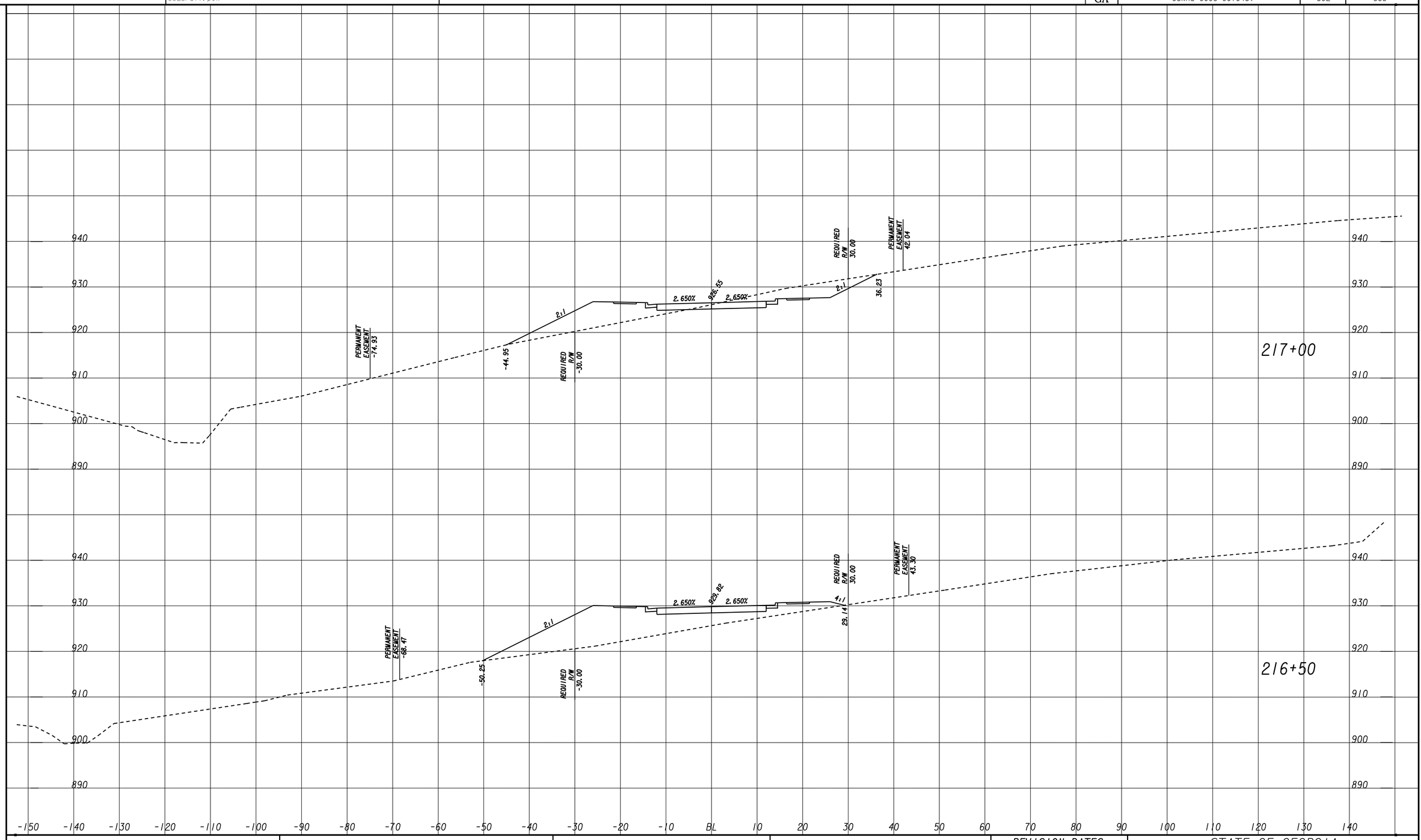
RELOC. ROPE MILL ROAD

DRAWING No. 23-110

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	302	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

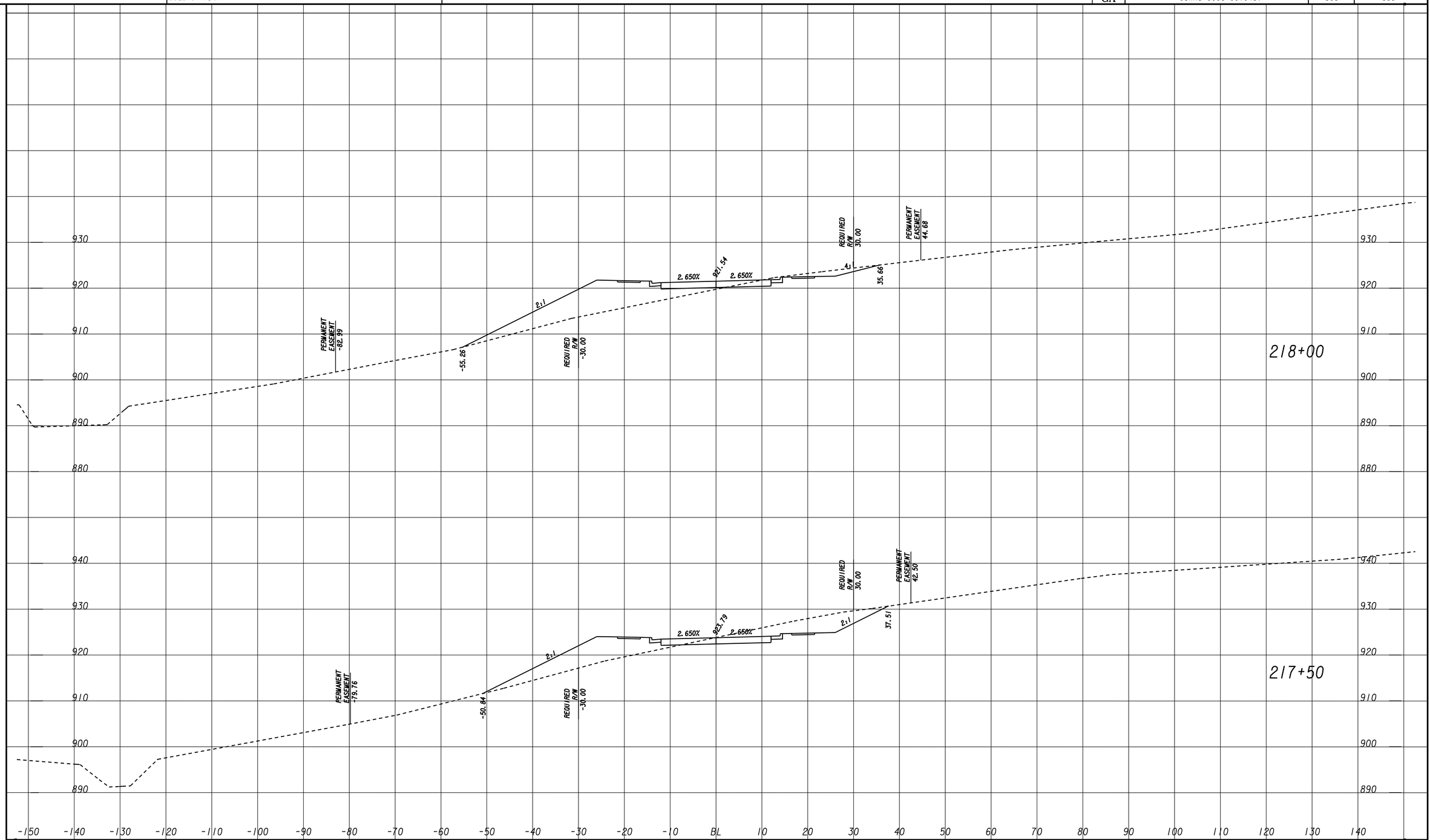
RELOC. ROPE MILL ROAD

DRAWING No. 23-111

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	303	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

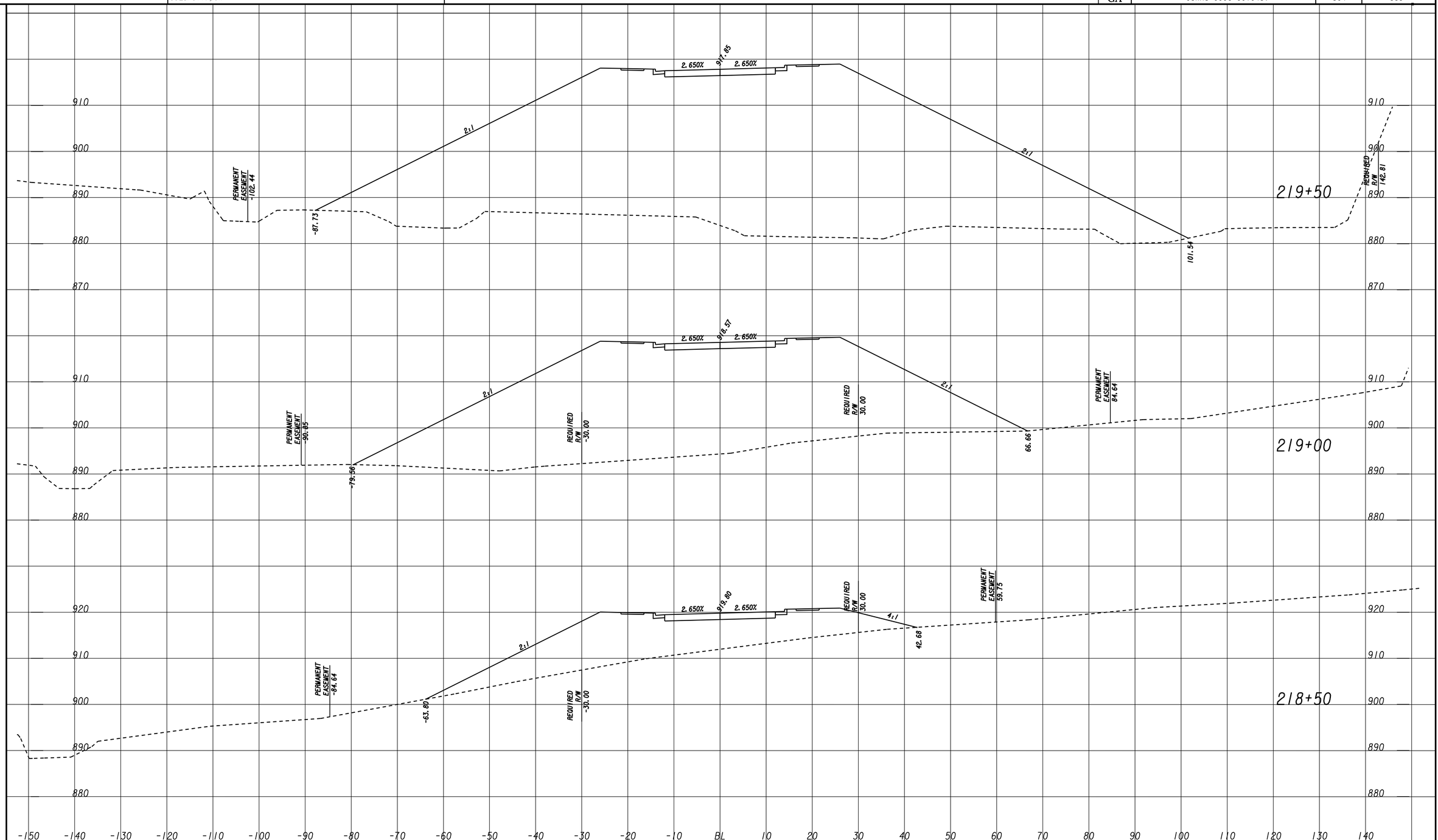
RELOC. ROPE MILL ROAD

DRAWING No. 23-112

3/1/2007 SUYSEW

JParks

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

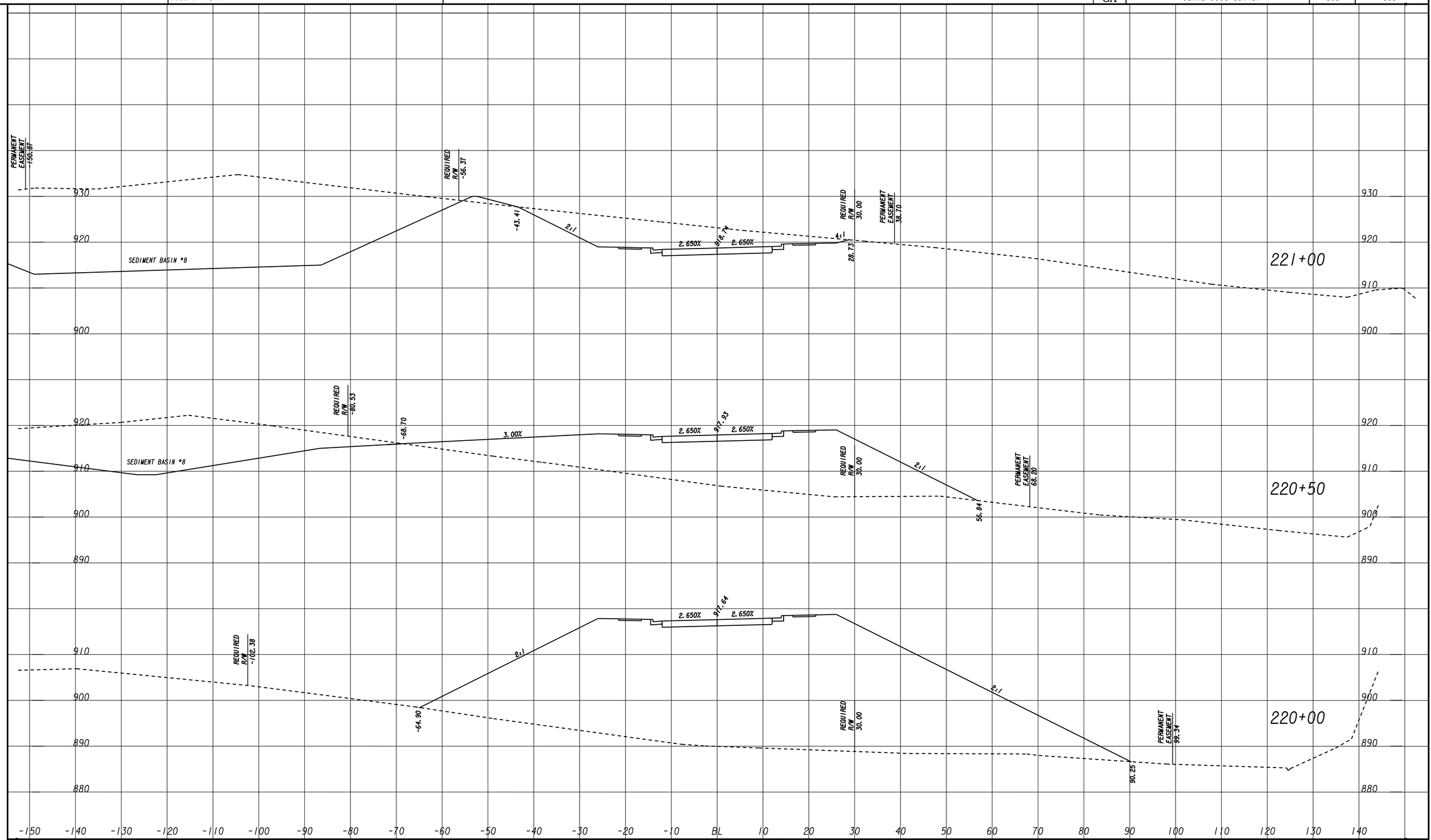
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-113

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

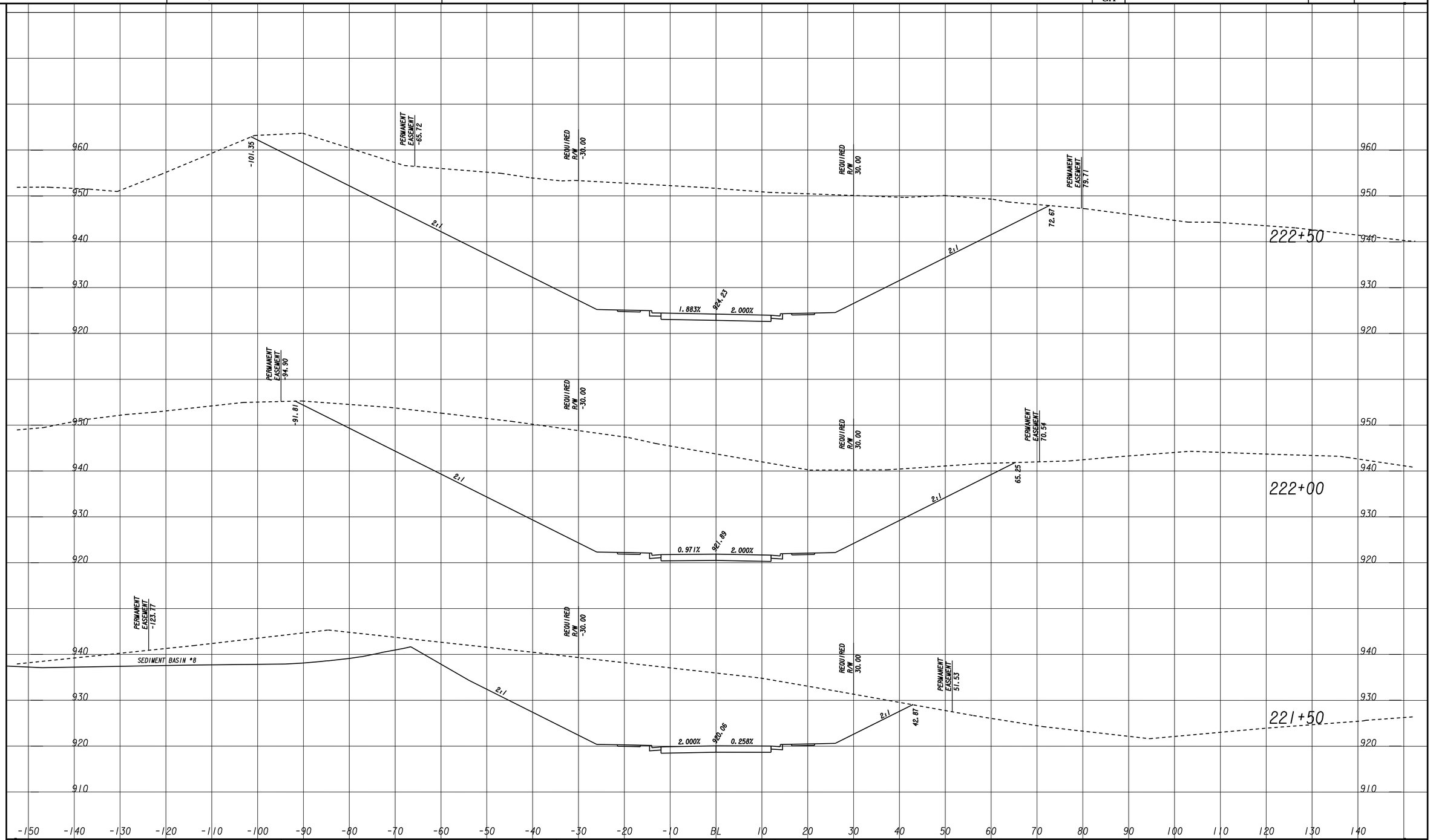
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-114

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

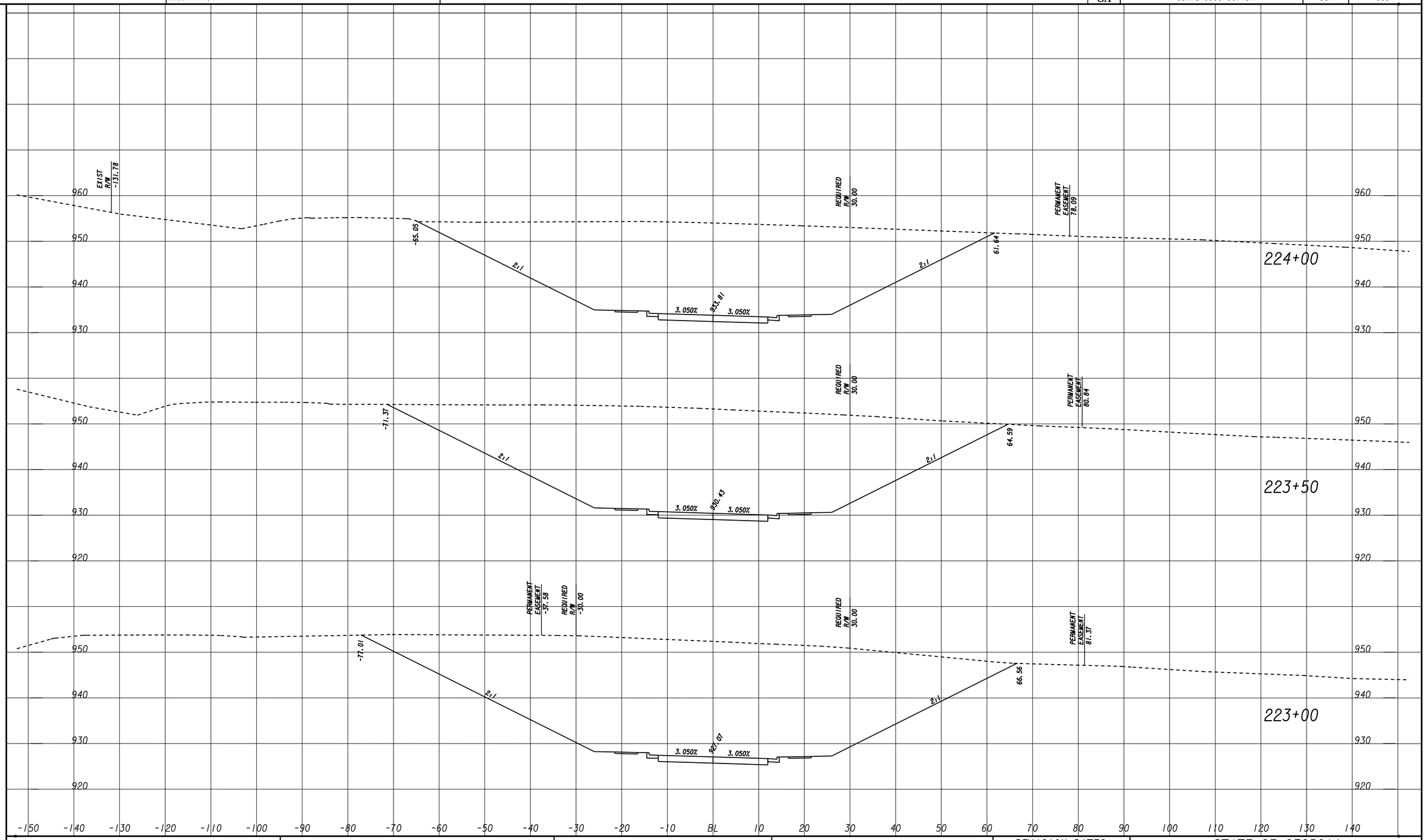
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-115

3/1/2007 SUYSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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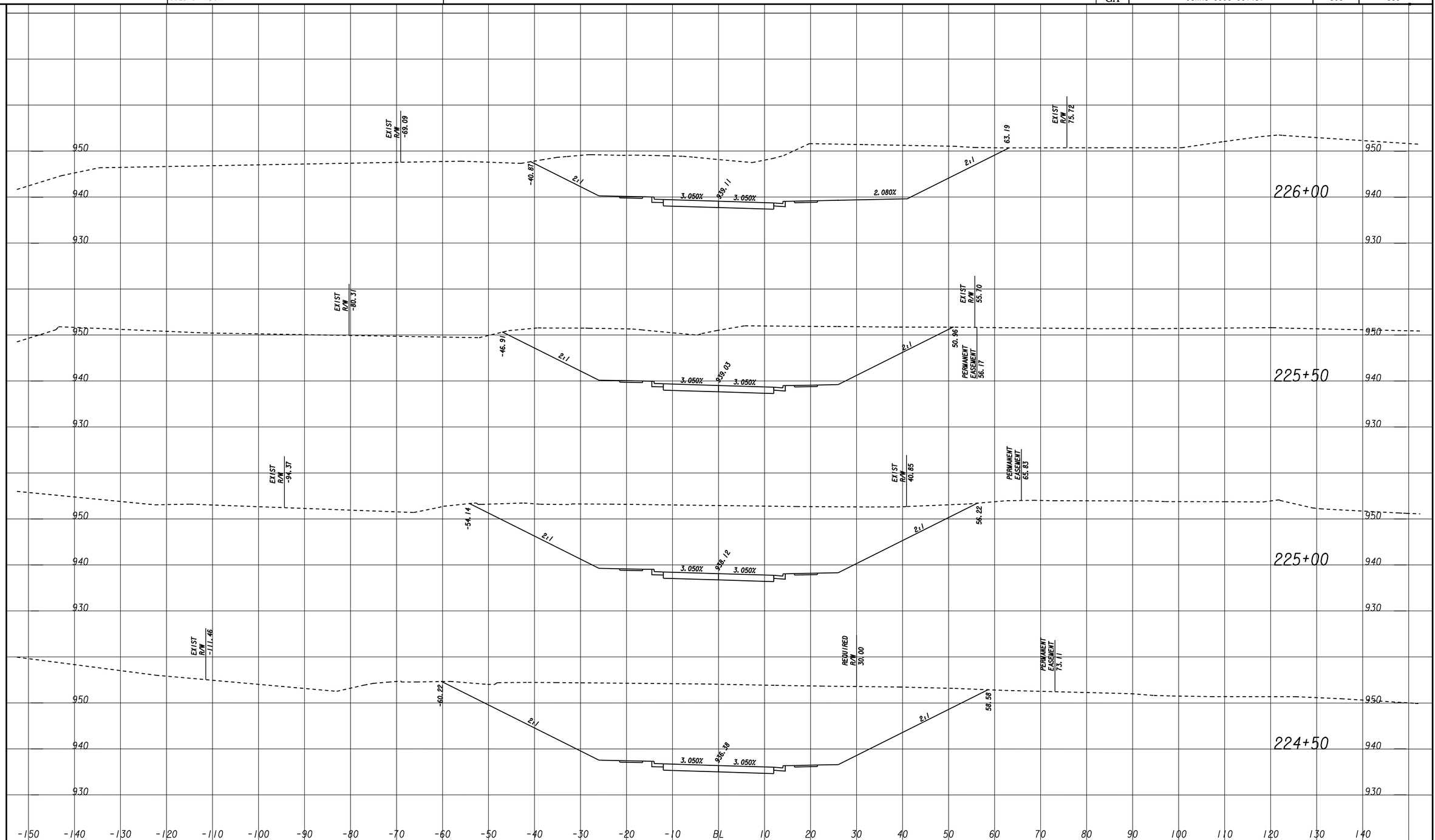
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-116

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

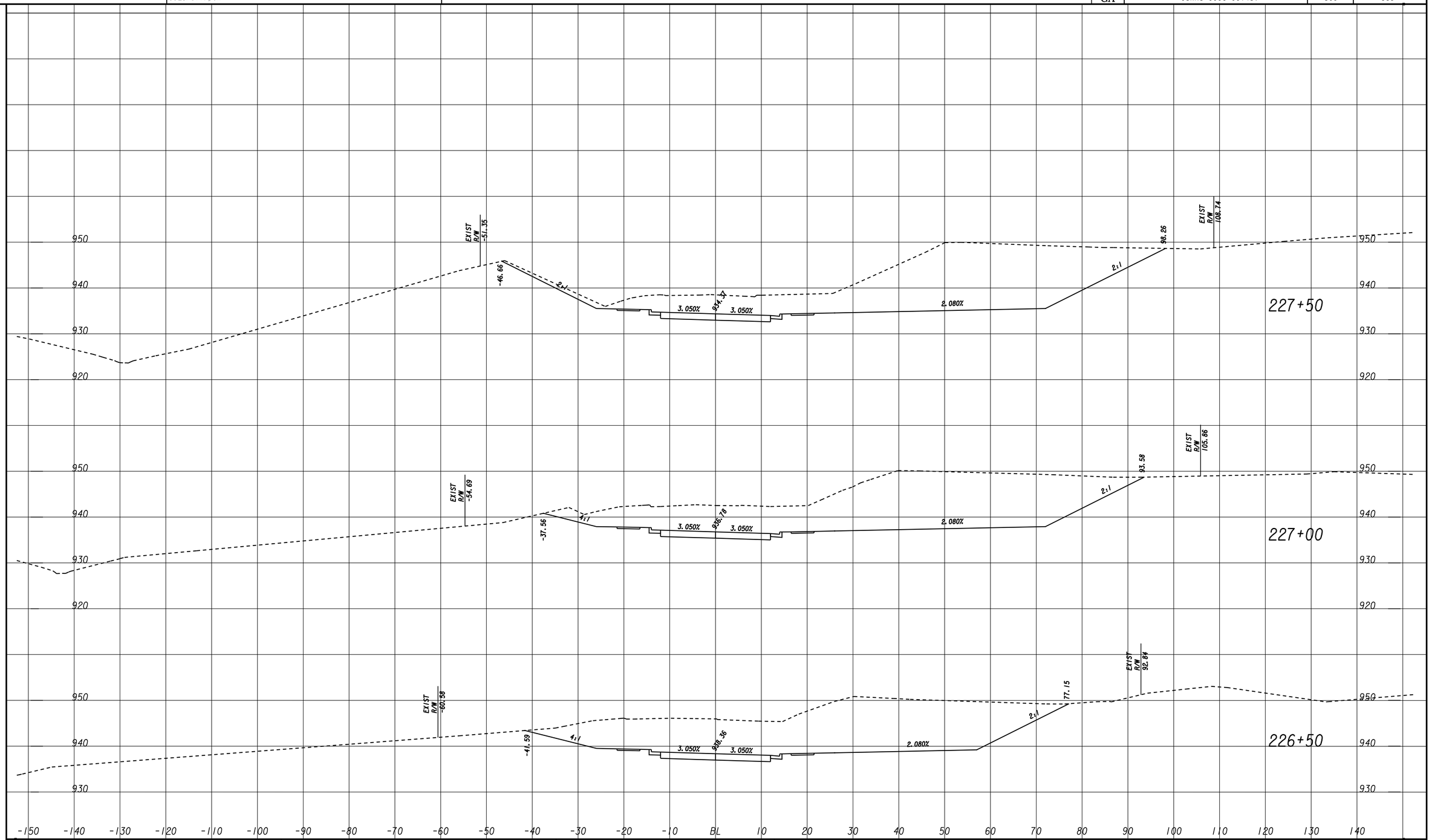
RELOC. ROPE MILL ROAD

DRAWING No. 23-117

3/1/2007 SUYSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	309	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 inch = 10 feet Vert.
SCALE 1 inch = 10 feet Horiz.

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

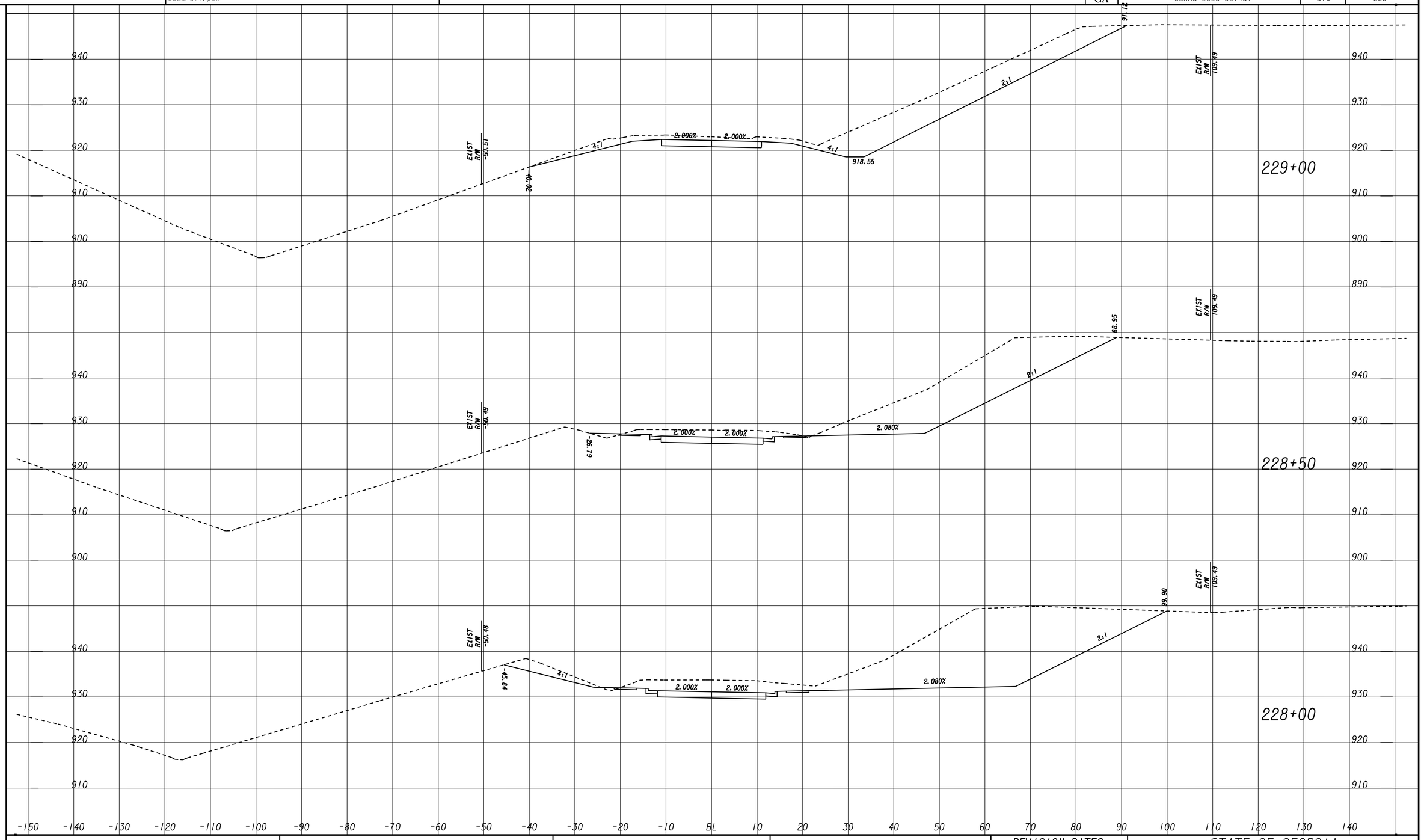
RELOC. ROPE MILL ROAD

DRAWING No. 23-118

3/1/2007 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(43)	310	668

RELEASED FOR CONSTRUCTION 12/02/10



SCALE 1 Inch = 10 feet Vert.
SCALE 1 Inch = 10 feet Horiz.

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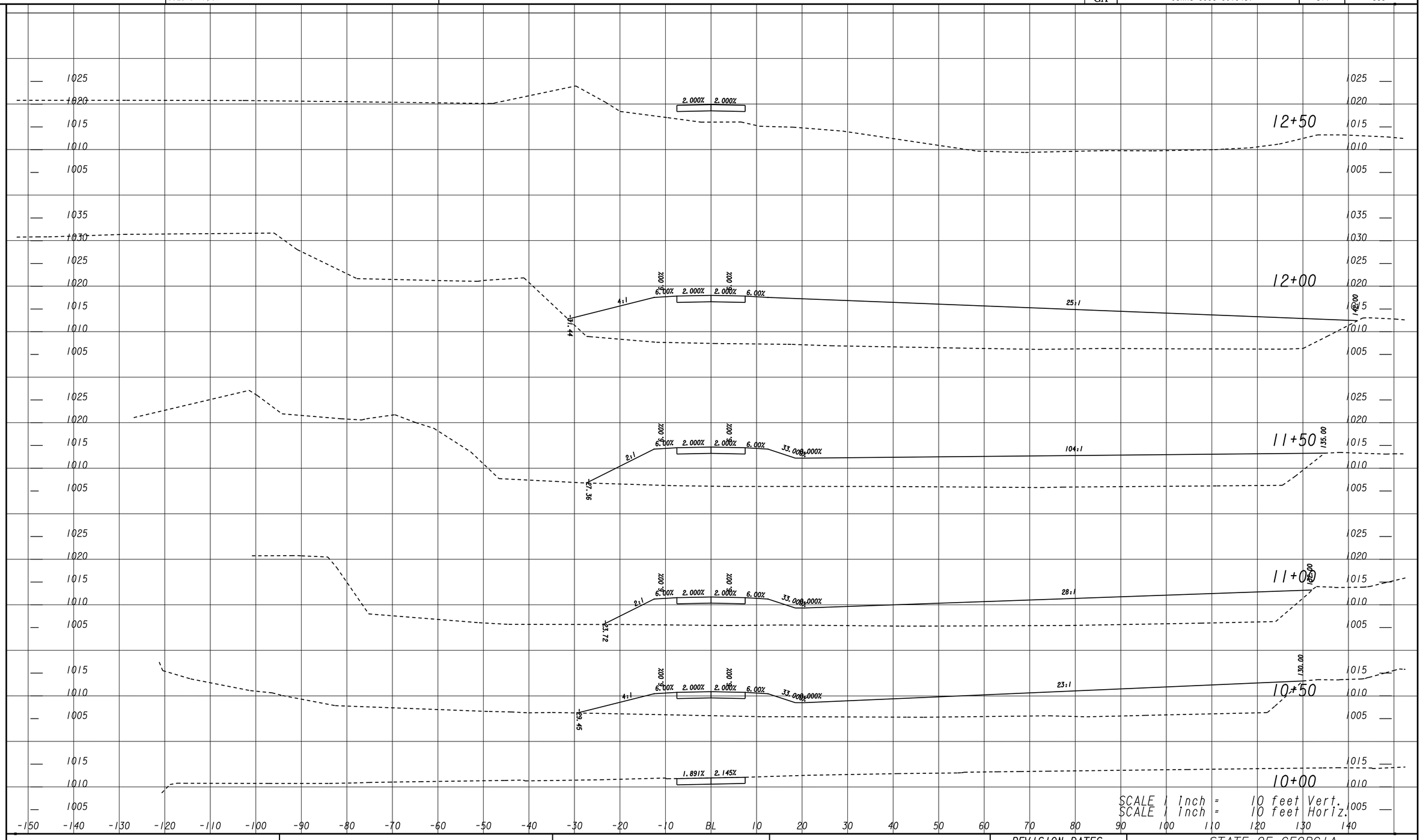
CROSS SECTIONS

RELOC. ROPE MILL ROAD

DRAWING No. 23-119

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10



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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

CROSS SECTIONS

DRIVEWAY 'A'

DRAWING No. 23-120

3/1/2007 SUXSEW

RELEASED FOR CONSTRUCTION 12/02/10

WORK ORDER DESCRIPTION:

AN OVERHEAD/SUBSURFACE UTILITY ENGINEERING INVESTIGATION (SUE) WAS PERFORMED AND COMPLETED ON 11/04/09 BY STREET SMARTS INC., FOR THIS PROJECT. THE EXISTING OVERHEAD AND UNDERGROUND FACILITIES SHOWN HEREON WERE INCLUDED IN THIS SUE INVESTIGATION. THE PRESENCE OF THESE UTILITY FACILITIES HAS BEEN THOROUGHLY INVESTIGATED AND THE METHOD OF DETERMINING THEIR LOCATION IS INDICATED AS SHOWN IN THE PLANS. UTILITIES THAT HAVE BEEN INSTALLED AFTER THE DATE ABOVE HAVE NOT BEEN INCLUDED IN THIS INVESTIGATION AND SHOULD BE CONSIDERED AS FROM RECORD DRAWIN ONLY. ALL OTHER EXISTING TOPOGRAPHIC FEATURES DEPICTED HEREON HAVE BEEN REFERENCED FROM A TOPOGRAPHIC / MAPPING SURVEY AND CONTROL PACKAGE PROVIDED BY CROY ENGINEERING AND DATED 08/20/2007.

ADDITIONAL OVERHEAD/SUBSURFACE UTILITY ENGINEERING INVESTIGATIONS (SUE) WERE PERFORMED AND COMPLETED BY WOLVERTON & ASSOCIATES ON 10/20/2010. THIS INVESTIGATION INCORPORATED THE ADDTION OF CHARTER COMMUNICATIONS FIBER OPTIC CABLE, AT&T FIBER OPTIC CABLE AND QL-A TEST HOLES PERFORMED AFTER THE ORIGINAL QL-B INVESTIGATION WAS COMPLETE

GENERAL NOTES:

1. ALL SIZES AND MATERIAL TYPES WERE NOTED PER RECORD PLANS.
2. ALL FIRE HYDRANT CONNECTIONS ARE 6"DIP UNLESS OTHERWISE INDICATED ON PLANS.

UTILITY SUMMARY:

ALL OF THE FOLLOWING UTILITY OWNERS WERE REPORTED TO HAVE FACILITIES WITHIN THE VICINITY OF THIS PROJECT AT THE TIME OF THE SUE INVESTIGATION. UTILITIES FOUND WITHIN THE LOS AT THE TIME OF THE SUE INVESTIGATION ARE NOTED FOR EACH UTILITY OWNER LISTED AND ARE SHOWN ON THE PLANS HEREON.

1. CITY OF WOODSTOCK (COW)- WATER
   CONTACT: BILLY DUNNEBACK
   TELEPHONE: (678) 614-3090
   NOTE: ALL WATER IS CITY OF WOODSTOCK UNLESS OTHERWISE NOTED.

2. CHEROKEE COUNTY - WATER
   CONTACT: WILLIAM TAYLOR
   TELEPHONE: (770) 720-6193
   NOTE: ALL CHEROKEE COUNTY WATER IS LABELED THROUGHOUT. UTILITY OWNER HAS NO RECORDS, ALL FACILITIES WERE VERBALLY DESCRIBED.

3. CITY OF WOODSTOCK (COW)- SEWER
   CONTACT: BILLY DUNNEBACK
   TELEPHONE: (678) 614-3093
   NOTE: UTILITY OWNER WAS CONTACTED AND VERIFIED THAT THERE ARE NO FACILITIES WITHIN THE VICINITY OF THE PROJECT.

4. CHEROKEE COUNTY - SEWER
   CONTACT: WILLIAM TAYLOR
   TELEPHONE: (678) 313-0229
   NOTE: ALL SEWER FACILITIES ARE CHEROKEE COUNTY UNLESS OTHERWISE NOTED.

5. AT&T- TELEPHONE
   CONTACT: MATT BROTHERS
   TELEPHONE: (770) 514-8630
   NOTE: ALL TELEPHONE IS AT&T UNLESS OTHERWISE NOTED.

6. COMCAST COMMUNICATIONS - CABLE TELEVISION (CATV)
   CONTACT: LEIGH HUTCHESON
   TELEPHONE: (770) 559-2230
   NOTE: ALL CATV IS COMCAST COMMUNICATIONS UNLESS OTHERWISE NOTED.

7. COBB EMC - ELECTRIC
   CONTACT: MICHEAL DEVANI
   TELEPHONE: (678) 355-3241
   NOTE: UTILITY OWNER WAS CONTACTED AND VERIFIED THAT THERE ARE NO FACILITIES WITHIN THE VICINITY OF THE PROJECT.

8. GEORGIA POWER COMPANY (GAPC) - ELECTRIC DISTRIBUTION
   CONTACT: JARRETT DAVIS
   TELEPHONE: (404) 506-4474
   NOTE: ALL ELECTRIC DISTRIBUTION IS GEORGIA POWER COMPANY UNLESS OTHERWISE NOTED.

9. CITY OF WOODSTOCK (COW)- TRAFFIC CONTROL
   CONTACT: PAT FLOOD
   TELEPHONE: (770) 592-6000
   NOTE: ALL TRAFFIC CONTROL FACILITIES ARE CITY OF WOODSTOCK (COW) UNLESS OTHERWISE NOTED. ⚠1

10. ATLANTA GAS LIGHT COMPANY (AGL) - GAS
    CONTACT: DEMETRIOUS WARD
    TELEPHONE: (404) 584-3139
    NOTE: ALL GAS FACILITIES ARE AGL UNLESS OTHERWISE NOTED. ⚠2

11. CHARTER COMMUNICATIONS (CCOM) - CABLE TELEVISION
    CONTACT: JIMMY PRICE
    TELEPHONE: 770-806-7060 ⚠3
    CCOM FIBER OPTIC CABLE LABLED THROUGHOUT

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES
⚠1 REVISED TRAFFIC CONTROL OWNER 12/15/09
⚠2 ADDED AGL AS UTILITY OWNER 5/19/10
⚠3 UTILITY CONTACT INFO. ADDED 11/12/10

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

DRAWING No: 24-00B

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	E	E	E	ELECTRIC
	E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
	E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
	E-TC	E-TC	E-TC	ELECTRIC/TRAFFIC CONTROL
	E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
	E-T-TV-TC	E-T-TV-TC	E-T-TV-TC	ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	E-TV-TC	E-TV-TC	E-TV-TC	ELECTRIC/CABLE TV/TRAFFIC CONTROL
	E-T-TC	E-T-TC	E-T-TC	ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
	GW	GW	GW	GUY WIRE
	T	T	T	TELECOMMUNICATIONS
	T-TC	T-TC	T-TC	TELECOMMUNICATIONS/TRAFFIC CONTROL
	T-TV-TC	T-TV-TC	T-TV-TC	TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
	T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
	TV	TV	TV	CABLE TV
	TV-TC	TV-TC	TV-TC	CABLE TV/TRAFFIC CONTROL
	TC	TC	TC	TRAFFIC CONTROL
UNDERGROUND	E	E	E	ELECTRIC (QL-D)
	E(C)	E(C)		ELECTRIC (QL-C)
	E(B)	E(B)		ELECTRIC (QL-B)
	T	T	T	TELECOMMUNICATIONS (QL-D)
	T(C)	T(C)		TELECOMMUNICATIONS (QL-C)
	T(B)	T(B)		TELECOMMUNICATIONS (QL-B)
	TV	TV	TV	CABLE TV (QL-D)
	TV(C)	TV(C)		CABLE TV (QL-C)
	TV(B)	TV(B)		CABLE TV (QL-B)
	W	W	W	WATER (QL-D)
	W(C)	W(C)		WATER (QL-C)
	W(B)	W(B)		WATER (QL-B)
	**"W	**"W	**"W	WATER FOR LABELED PIPE SIZES (QL-D)
	**"W(C)	**"W(C)		WATER FOR LABELED PIPE SIZES (QL-C)
	**"W(B)	**"W(B)		WATER FOR LABELED PIPE SIZES (QL-B)
	NW	NW	NW	NON-POTABLE WATER (QL-D)
	NW(C)	NW(C)		NON-POTABLE WATER (QL-C)
	NW(B)	NW(B)		NON-POTABLE WATER (QL-B)
	**"NW	**"NW	**"NW	NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D)
	**"NW(C)	**"NW(C)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C)
	**"NW(B)	**"NW(B)		NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B)
	STM	STM	STM	STEAM (QL-D)
	STM(C)	STM(C)		STEAM (QL-C)
	STM(B)	STM(B)		STEAM (QL-B)
	**"STM	**"STM	**"STM	STEAM FOR LABELED PIPE SIZES (QL-D)
	**"STM(C)	**"STM(C)		STEAM FOR LABELED PIPE SIZES (QL-C)
	**"STM(B)	**"STM(B)		STEAM FOR LABELED PIPE SIZES (QL-B)
	SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION (QL-D)
	SS(C)	SS(C)		SANITARY SEWER WITH FLOW DIRECTION (QL-C)
	SS(B)	SS(B)		SANITARY SEWER WITH FLOW DIRECTION (QL-B)
	Σ**"SS	Σ**"SS	Σ**"SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D)
	Σ**"SS(C)	Σ**"SS(C)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C)
	Σ**"SS(B)	Σ**"SS(B)		SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B)
	SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-D)
	SFM(C)	SFM(C)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C)
	SFM(B)	SFM(B)		SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B)
	G	G	G	GAS (QL-D)
	G(C)	G(C)		GAS (QL-C)
	G(B)	G(B)		GAS (QL-B)
	**"G	**"G	**"G	GAS FOR LABELED PIPE SIZES (QL-D)
	**"G(C)	**"G(C)		GAS FOR LABELED PIPE SIZES (QL-C)
	**"G(B)	**"G(B)		GAS FOR LABELED PIPE SIZES (QL-B)
	P	P	P	PETROLEUM (QL-D)
	P(C)	P(C)		PETROLEUM (QL-C)
	P(B)	P(B)		PETROLEUM (QL-B)
	**"P	**"P	**"P	PETROLEUM FOR LABELED PIPE SIZES (QL-D)
	**"P(C)	**"P(C)		PETROLEUM FOR LABELED PIPE SIZES (QL-C)
	**"P(B)	**"P(B)		PETROLEUM FOR LABELED PIPE SIZES (QL-B)
	TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL (QL-D)
	TC(C)			TRAFFIC CONTROL (QL-C)
	TC(B)			TRAFFIC CONTROL (QL-B)
	UNK(B)	UNK(B)		UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
M	M	M	MARKER
X	X	X	SPLICE BOX
			CABINET
			VENT
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
E	E	E	ELECTRIC BOX
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE

EXISTING	PROPOSED	TEMPORARY	
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE
TC	FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS		TRAFFIC CONTROL MANHOLE/ ELECTRIC COMMUNICATIONS BOX
			TRAFFIC CONTROL PEDESTRIAN SIGNAL/BUTTON POST

MISCELLANEOUS

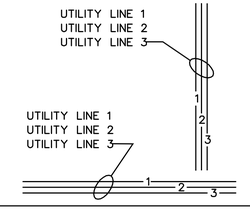
- LOS TH — LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
- TH — TEST HOLE (QL-A ONLY)
- EOI — END OF INFORMATION
- QUALITY LEVEL (QL) DELINEATION
- 123 — POLE ID
- A01 — SANITARY SEWER MANHOLE (SSMH) ID
- C123 — CONFLICT LOCATION (UTILITY IMPACT ANALYSIS (UIA) ONLY)
- END OF UTILITY

MANHOLE - LENGTH x WIDTH x DEPTH

PR	TELEPHONE PAIR SIZE
UNK	UNKNOWN SIZE/TYPE
MTD	MULTIPLE TILE DUCT
MCD	MULTIPLE CONCRETE DUCT
DIP	DUCTILE IRON PIPE
TRD	TRANSITE (ASBESTOS) DUCT
FOC	FIBER OPTIC CABLE
CIP	CAST IRON PIPE
STL	STEEL

PVC	POLY VINYL CHLORIDE
STR	FIBER STRAND SIZE
TCP	TERRA COTTA PIPE
ACP	ASBESTOS CONCRETE PIPE
VCP	VITRIFIED CLAY PIPE
STD	SINGLE TILE DUCT
SCPD	SINGLE CREOSOTE PINE DUCT
SD	SPLIT DUCT
PLA	PLASTIC

MULTI-UTILITY IDENTIFICATION



QUALITY LEVELS AND DEFINITIONS

QL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

QL-B INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. QL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

QL-A OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

DRAWING No. 24-00C

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

POLE#	POLE ID	POLE OWNER	UTILITY OWNERS ATTACHED					NORTHING	EASTING	HT.	DIA.	MAT'L	MISCELLANEOUS
			ELECTRIC	TELECOM	CABLE TV	TRAFFIC	OTHERS						
1		COW	GAPC			COW		1499684.4157	2188405.8846	31'	12"	METAL	TRAFFIC CONTROL POLE
2		COW	GAPC			COW		1499765.9545	2188312.0701	31'	12"	METAL	TRAFFIC CONTROL POLE
3		COW				COW		1499833.0435	2188388.5355	31'	12"	METAL	TRAFFIC CONTROL POLE
4		COW				COW		1499742.5947	2188477.5273	29'	15"	WOOD	GUY POLE
5		GAPC	GAPC					1499897.3603	2188194.1087	24'	12"	WOOD	
6	GG1412	GAPC	GAPC					1500145.8485	2188058.8064	44'	15"	WOOD	
7	5	GAPC	GAPC					1500187.7760	2187959.4040	26'	12"	WOOD	LIGHT POLE
8		GAPC	GAPC	AT&T				1500654.5622	2187496.6046	35'	15"	WOOD	
9	2	GAPC	GAPC					1501120.7113	2187301.9160	38'	15"	WOOD	2 LIGHTS ATTACHED
10	3	GAPC	GAPC	AT&T				1500844.5984	2187228.5517	42'	15"	WOOD	TRANSFORMER & LIGHT ATTACHED
11	WI222	GAPC	GAPC	AT&T				1500836.1416	2187191.7463	34'	12"	WOOD	
12		GAPC	GAPC	AT&T				1500813.9129	2186977.3223	29'	12"	WOOD	
13		GAPC	GAPC	AT&T				1500092.6211	2188165.1329	34'	12"	WOOD	TRANSFORMER ATTACHED
14	2131	GAPC	GAPC	AT&T				1500209.3538	2188336.0238	29'	12"	WOOD	
15	361916	GAPC	GAPC	AT&T				1500279.4693	2188537.6695	28'	12"	WOOD	
16	369871	GAPC	GAPC	AT&T				1500166.4613	2188650.0290	27'	12"	WOOD	TRANSFORMER ATTACHED
17	GG6188	GAPC	GAPC	AT&T				1500168.7700	2188071.6320	46'	15"	WOOD	
18	GG6553	GAPC	GAPC					1500336.9343	2188081.3995	46'	15"	WOOD	
19	GG652	GAPC	GAPC					1500473.0117	2188087.8904	37'	12"	WOOD	
20		GAPC	GAPC					1500684.0734	2188099.7939	37'	15"	WOOD	
21	GG1413	GAPC	GAPC					1501267.4412	2188134.6952	37'	15"	WOOD	
22	985835	GAPC	GAPC					1501846.8557	2188169.4041	36'	15"	WOOD	TRANSFORMER ATTACHED
23	AF4172	GAPC	GAPC					1502161.4979	2188187.8613	50'	15"	WOOD	ANTENNA & BOX ATTACHED
24		GAPC	GAPC					1502756.1114	2188238.4679	52'	15"	WOOD	
25	GG6466	GAPC	GAPC					1501386.8673	2187214.8788	29'	12"	WOOD	LIGHT ATTACHED
26	4	GAPC	GAPC					1501397.8057	2187211.8674	27'	12"	WOOD	LIGHT ATTACHED
27	GG6467	GAPC	GAPC					1501397.5765	2187267.0601	34'	12"	WOOD	
28	4	GAPC	GAPC					1500634.2792	2187461.2739	20'	12"	WOOD	LIGHT POLE
29		GAPC	GAPC					1500304.3763	2188589.4202	18'	10"	WOOD	
30		PRIVATE						1500304.3763	2188589.4202	19'	4"X4"	METAL	LIGHT POLE
31		PRIVATE						1500304.3763	2188493.5923	19'	4"X4"	METAL	LIGHT POLE
32		PRIVATE						1499928.6807	2188589.4202	19'	4"X4"	METAL	LIGHT POLE
33		PRIVATE						1499800.8115	2188652.0315	19'	4"X4"	METAL	LIGHT POLE
34		GAPC	GAPC	AT&T				1500349.0993	2187853.5673	19'	15"	WOOD	

TOTAL GEORGIA POWER COMPANY (GAPC) POLES	26
TOTAL CITY OF WOODSTOCK POLES (COW)	4
TOTAL PRIVATE POLES	4
TOTAL POLE COUNT	34

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES
1 REVISED TRAFFIC CONTROL OWNER 12/15/19
2 REVISED TO REMOVE TELEPHONE OWNER 6/22/10

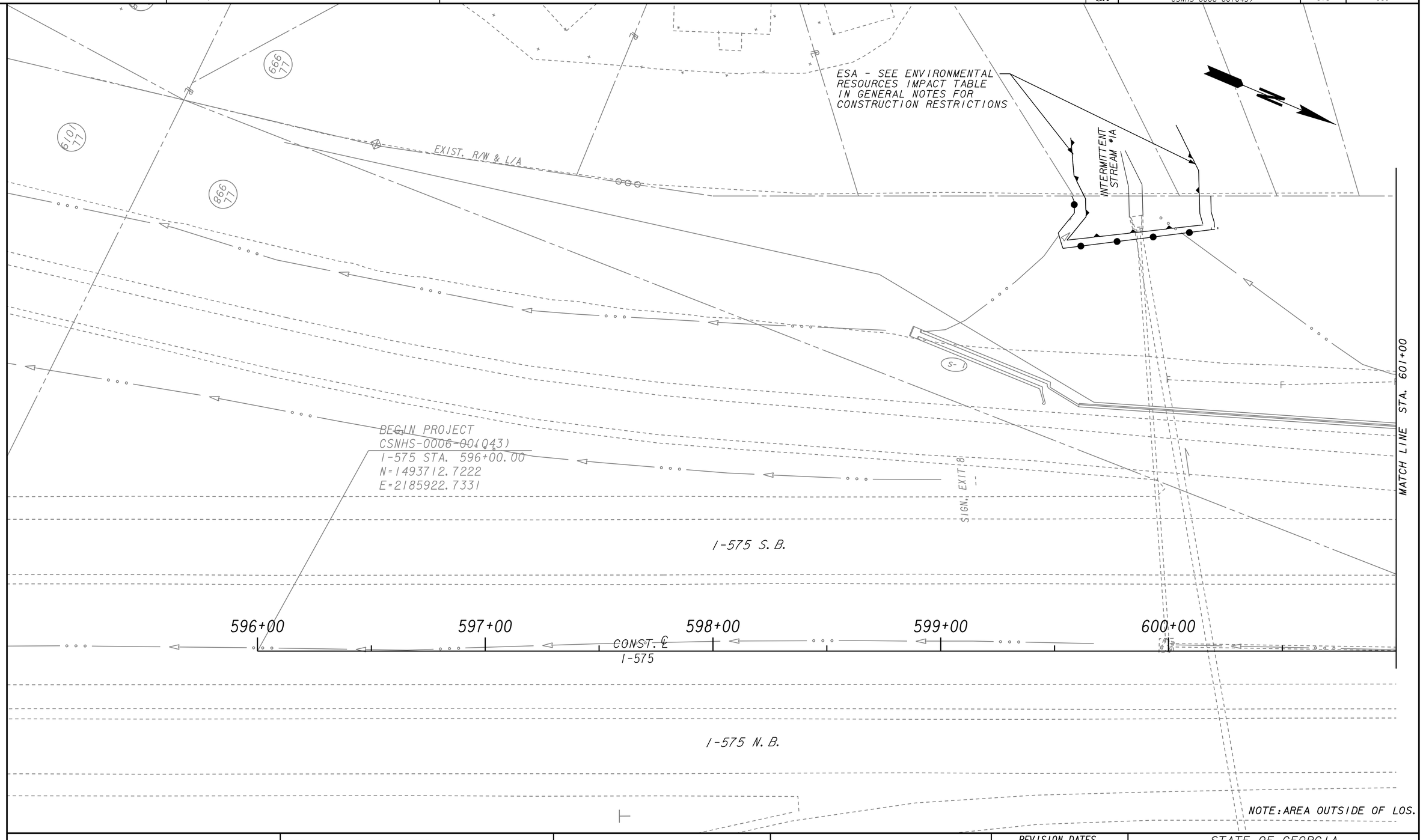
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

DRAWING No. 24-00D

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

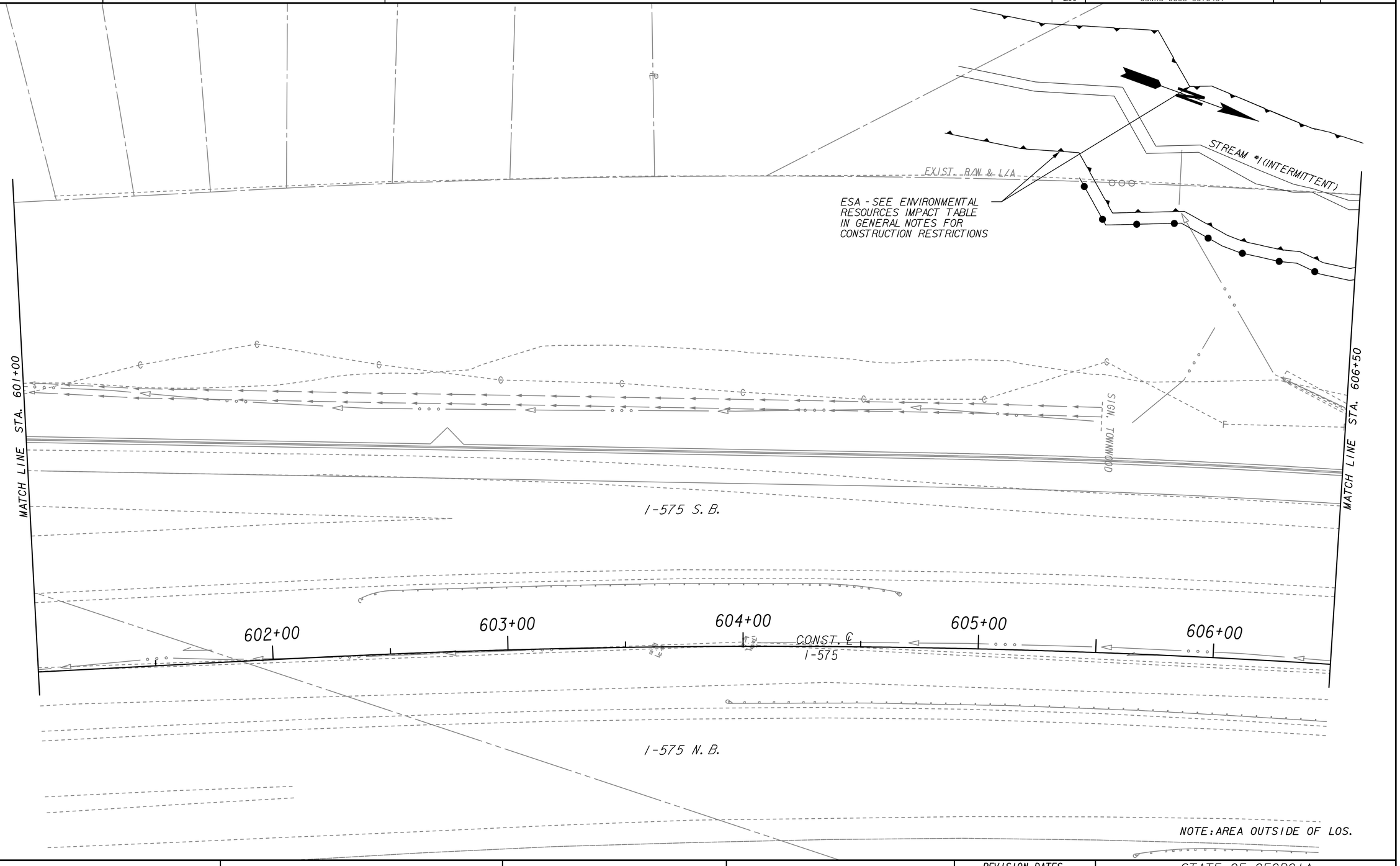
UTILITY PLANS

I-575 SB AUXILIARY LANE
BEGIN PROJECT TO STA. 601+00

DRAWING No. 24-001

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

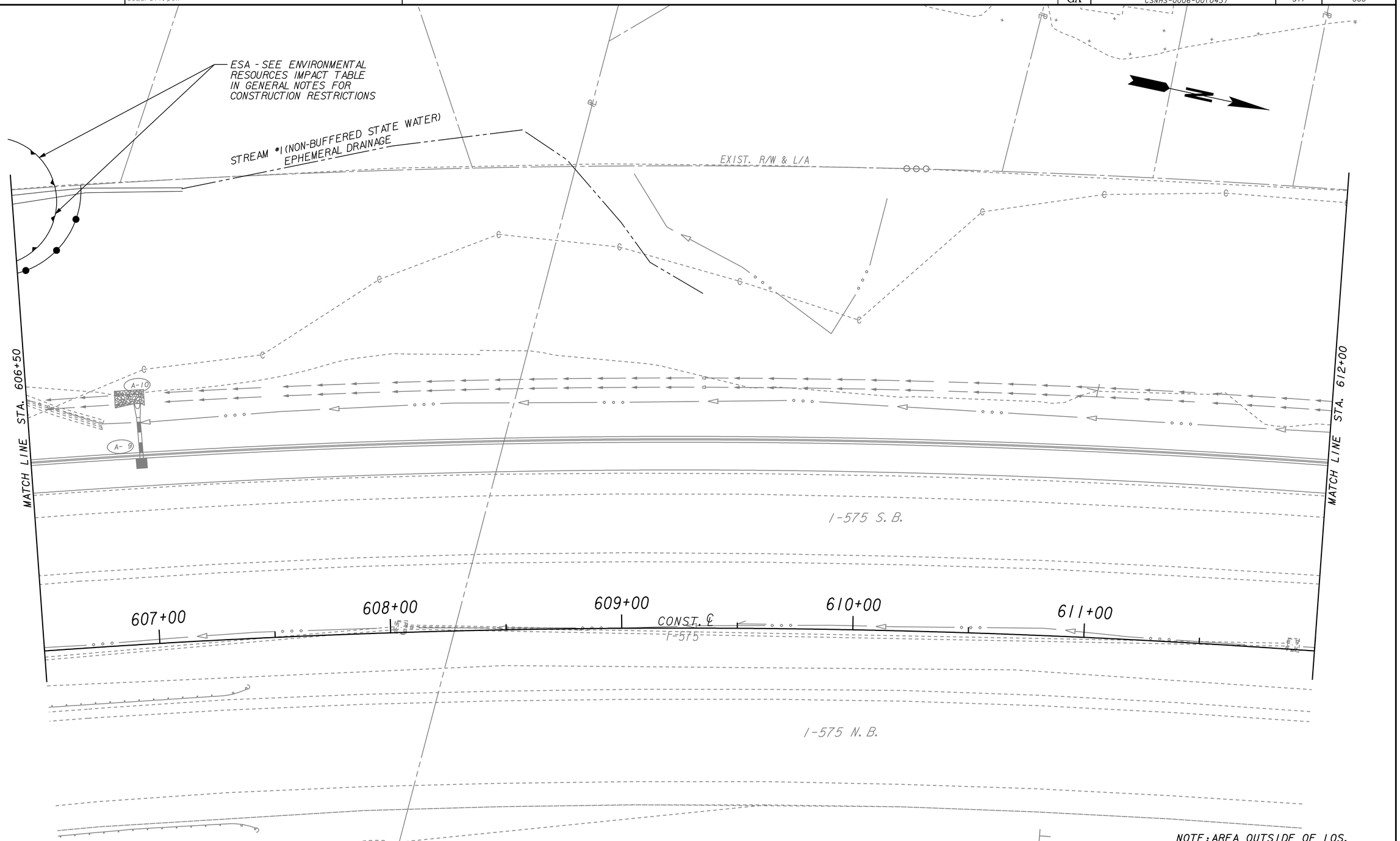
I-575 SB AUXILIARY LANE
STA. 601+00 TO STA. 606+50

DRAWING No. 24-002

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	317	668

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

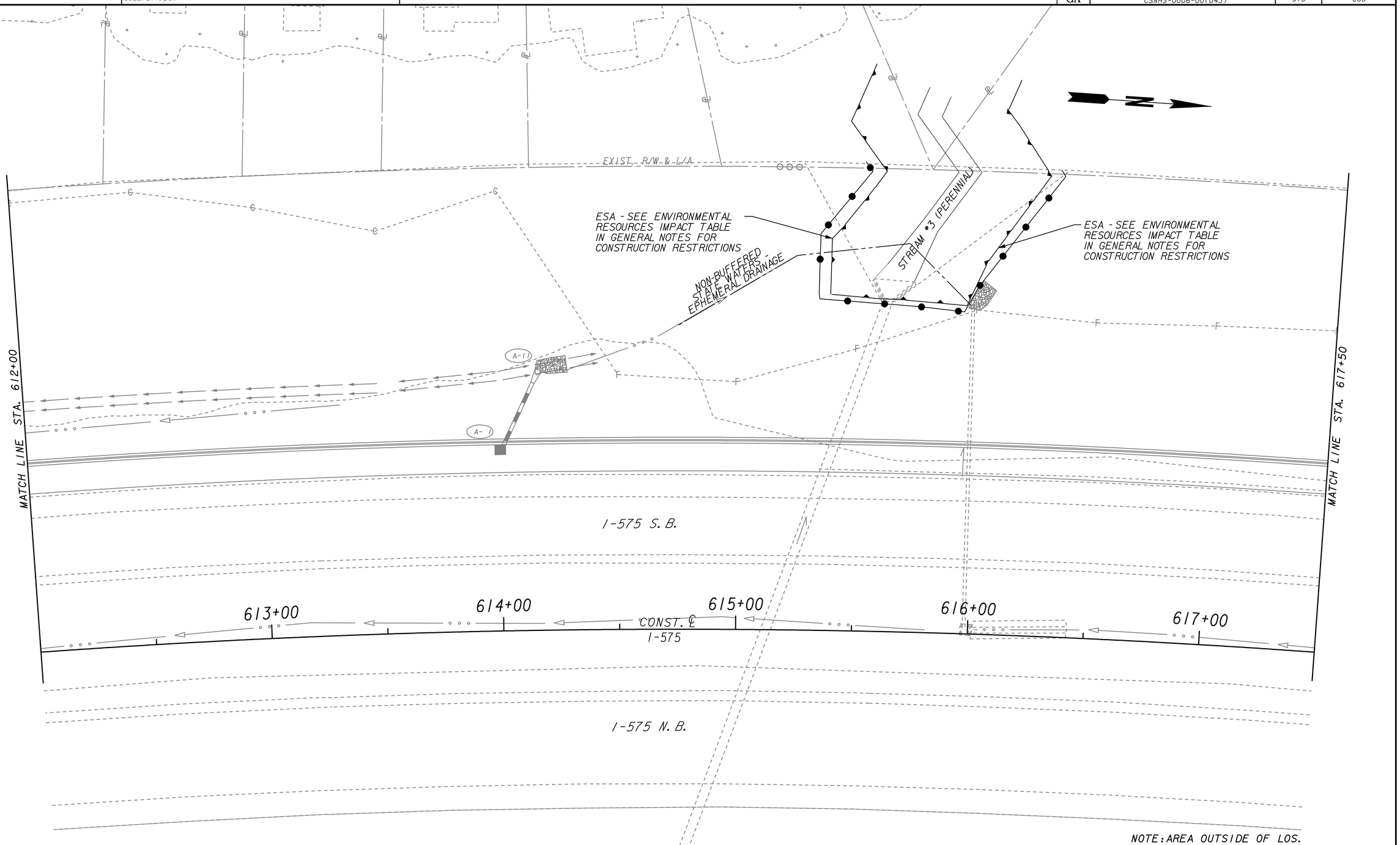
UTILITY PLANS

I-575 SB AUXILIARY LANE
STA. 606+50 TO STA. 612+00

DRAWING No. 24-003

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

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

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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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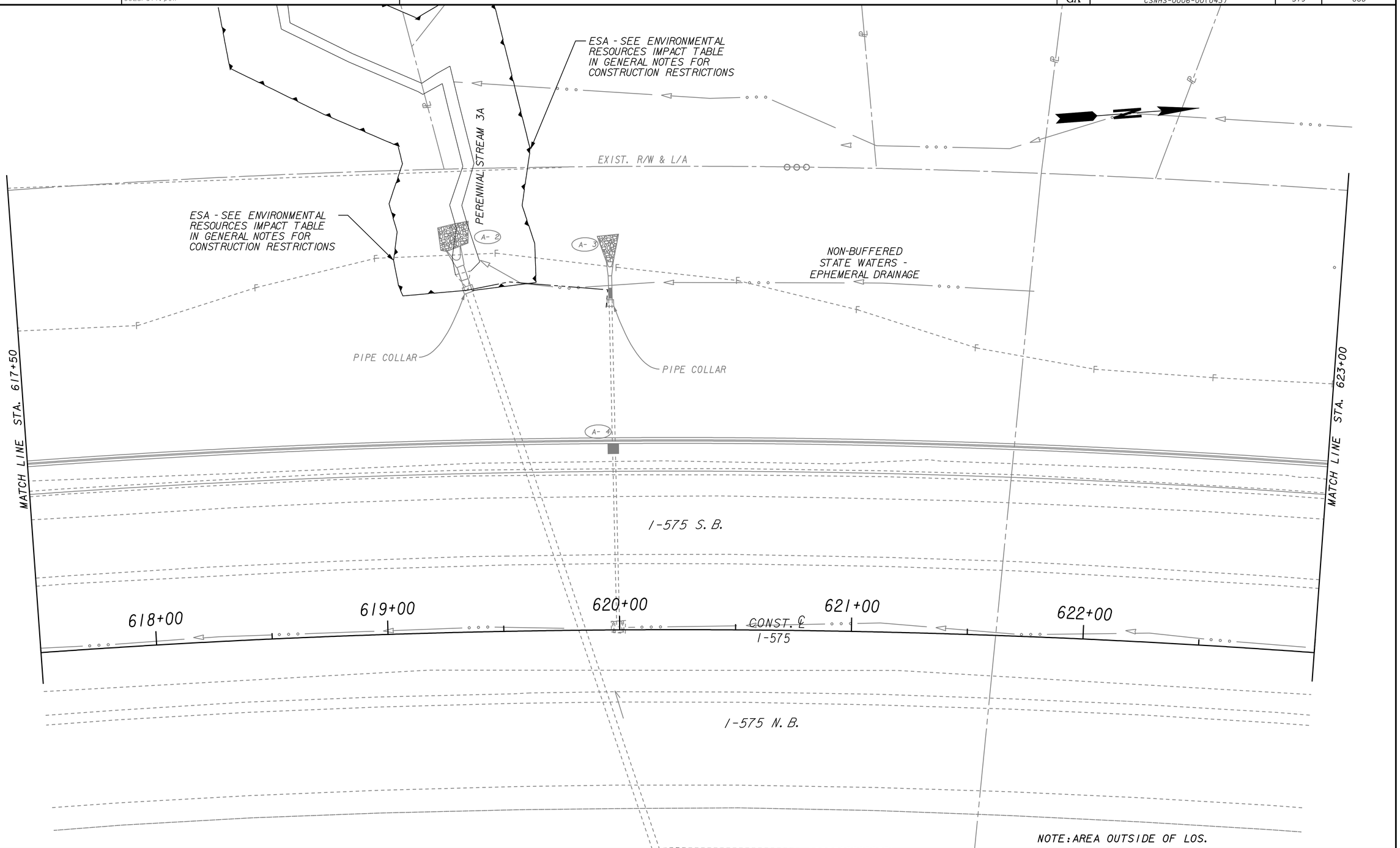
UTILITY PLANS

I-575 SB AUXILIARY LANE
STA. 612+00 TO STA. 617+50

DRAWING No. 24-004

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

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

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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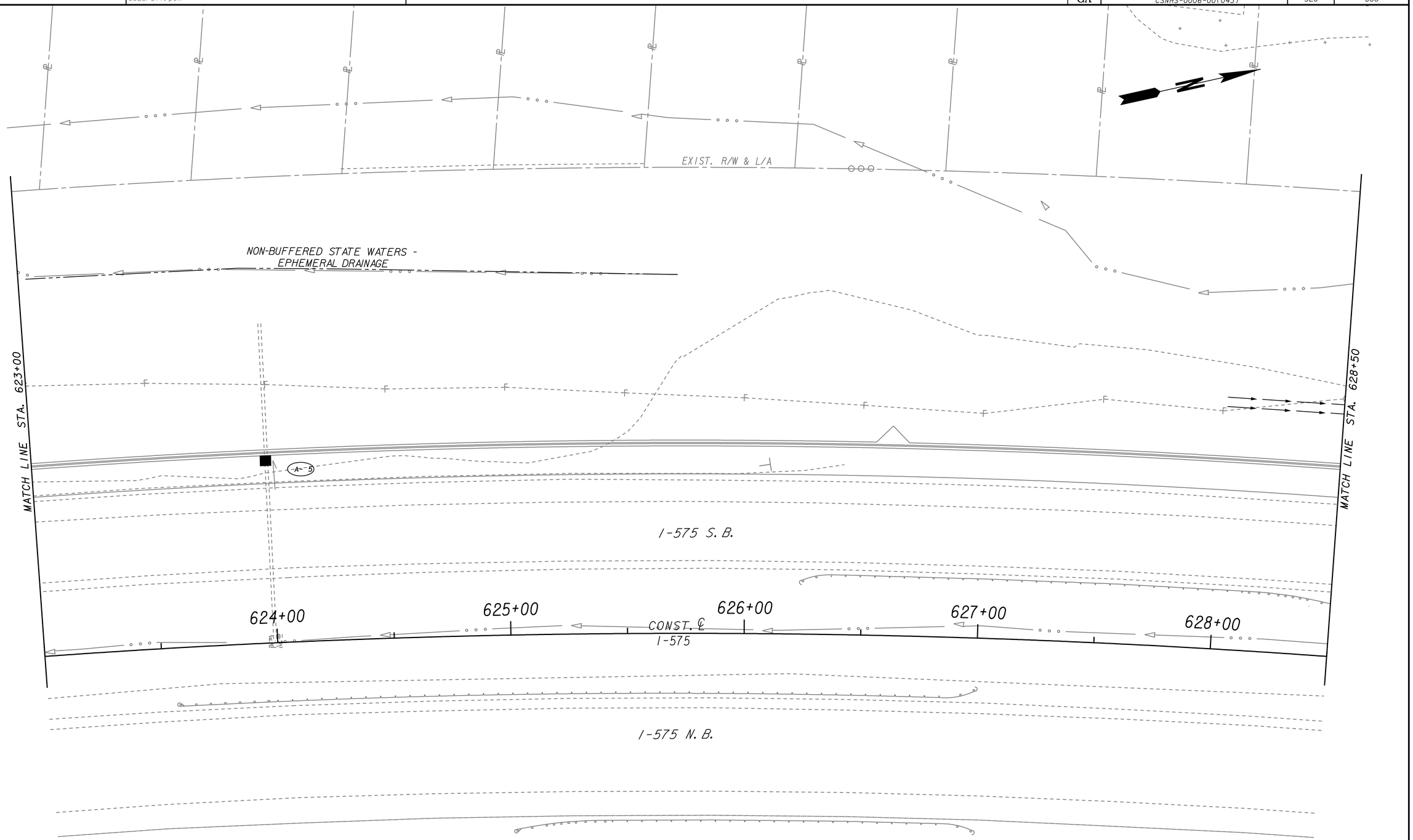
UTILITY PLANS

I-575 SB AUXILIARY LANE
STA. 617+50 TO STA. 623+00

DRAWING No. 24-005

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

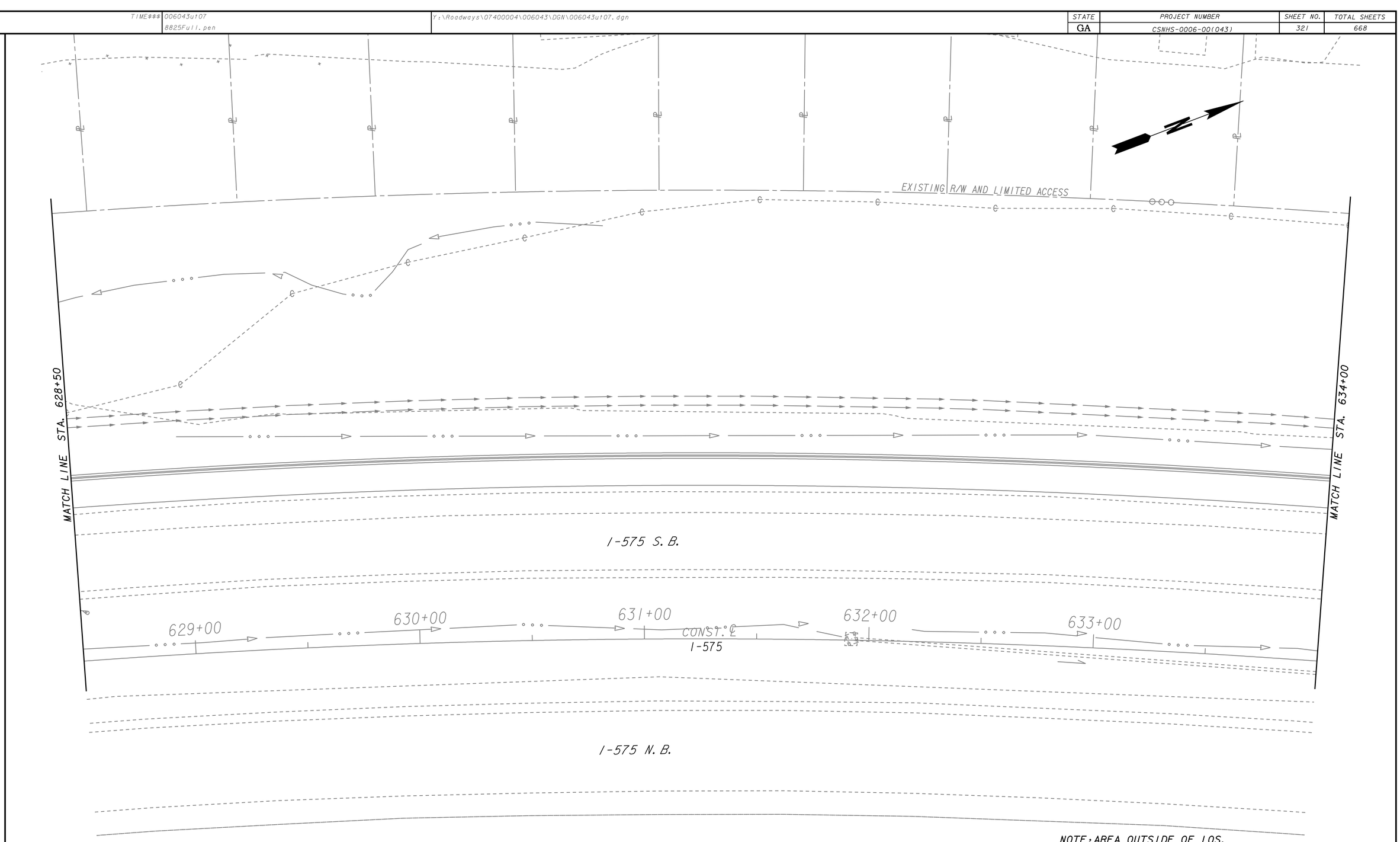
UTILITY PLANS

I-575 SB AUXILIARY LANE
STA. 623+00 TO STA. 628+50

DRAWING No. 24-006

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

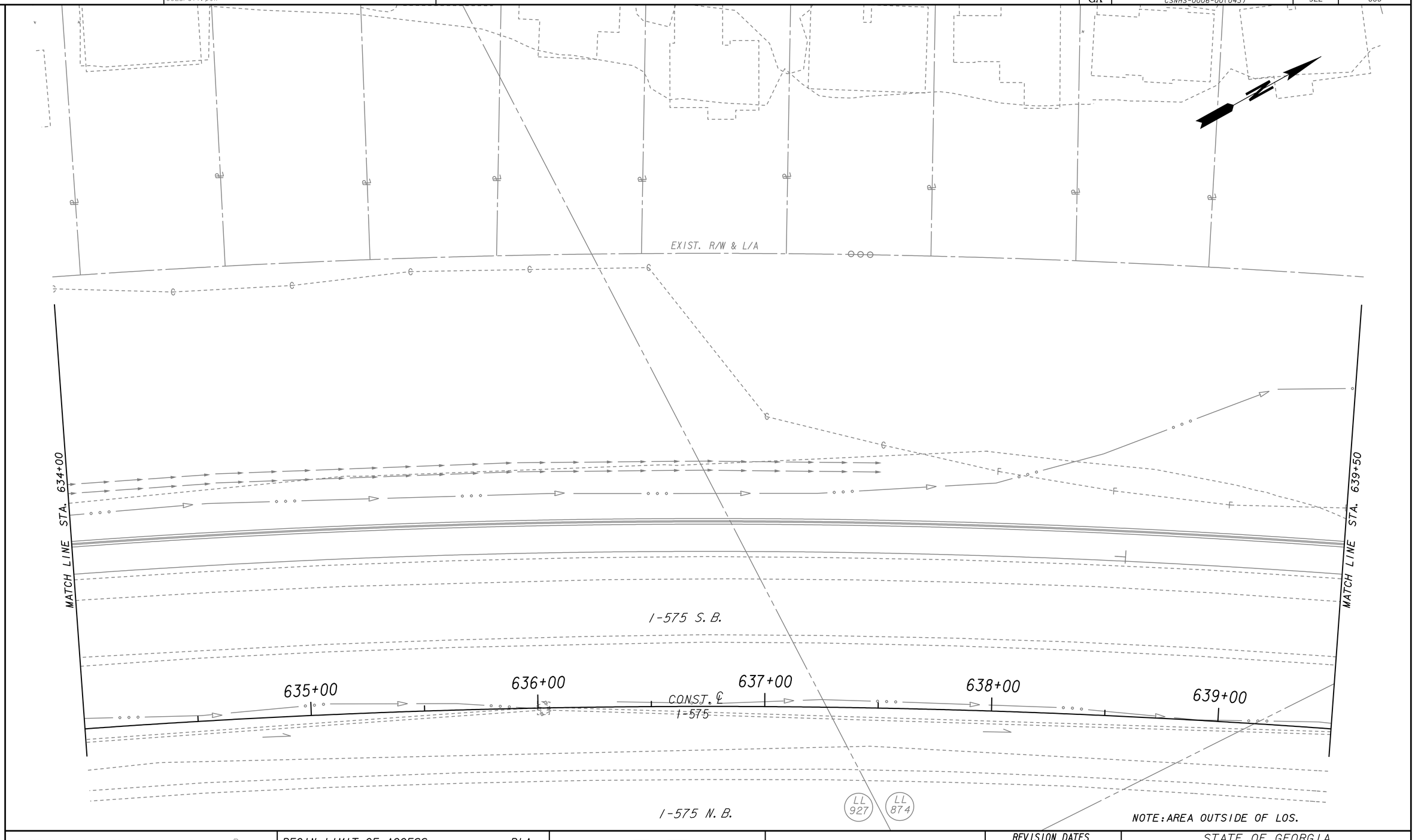
I-575 SB AUXILIARY LANE
STA. 628+50 TO STA. 634+00

DRAWING No. 24-007

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	322	668

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

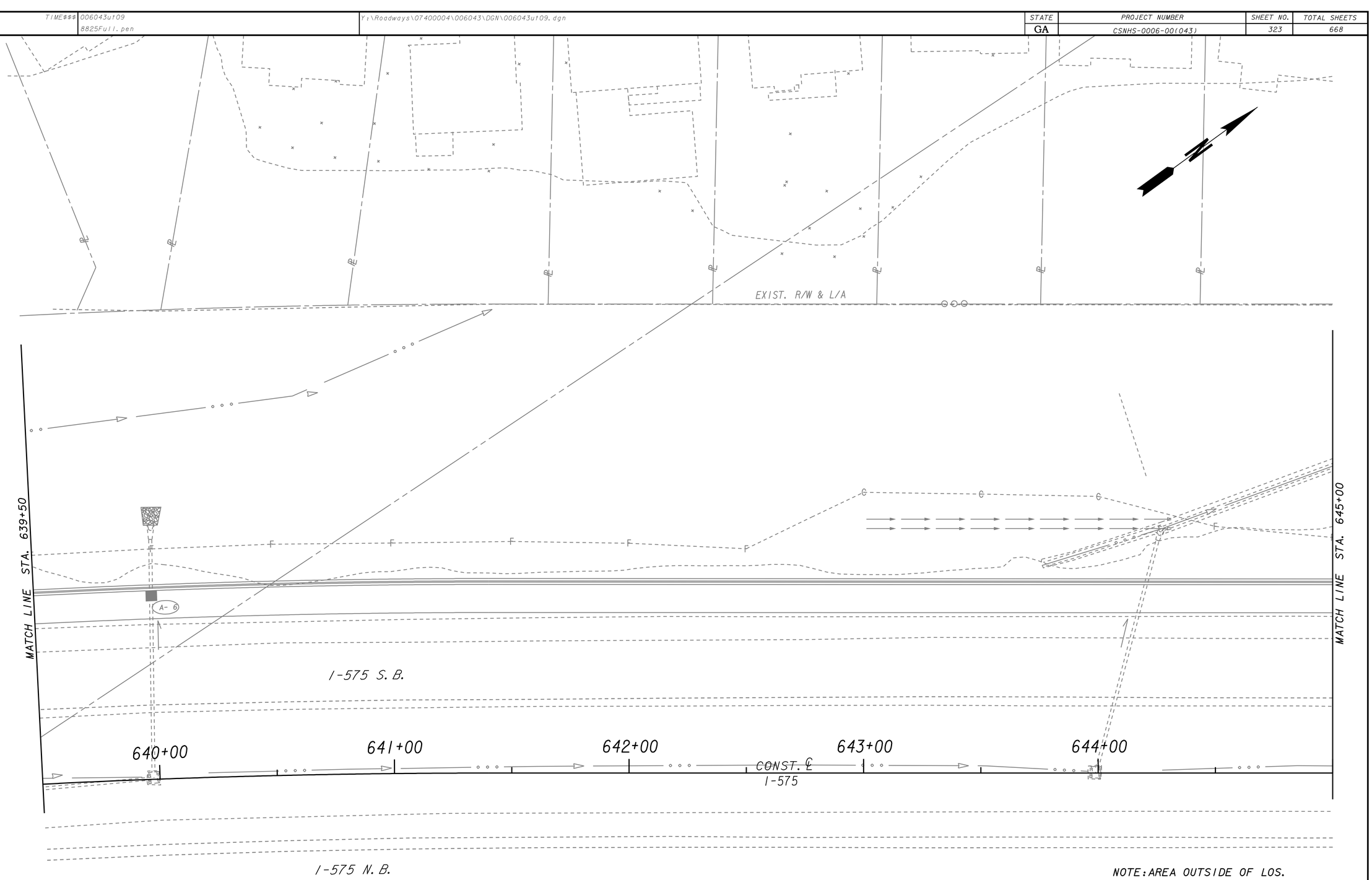
UTILITY PLANS

I-575 SB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 24-008

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: AREA OUTSIDE OF LOS.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

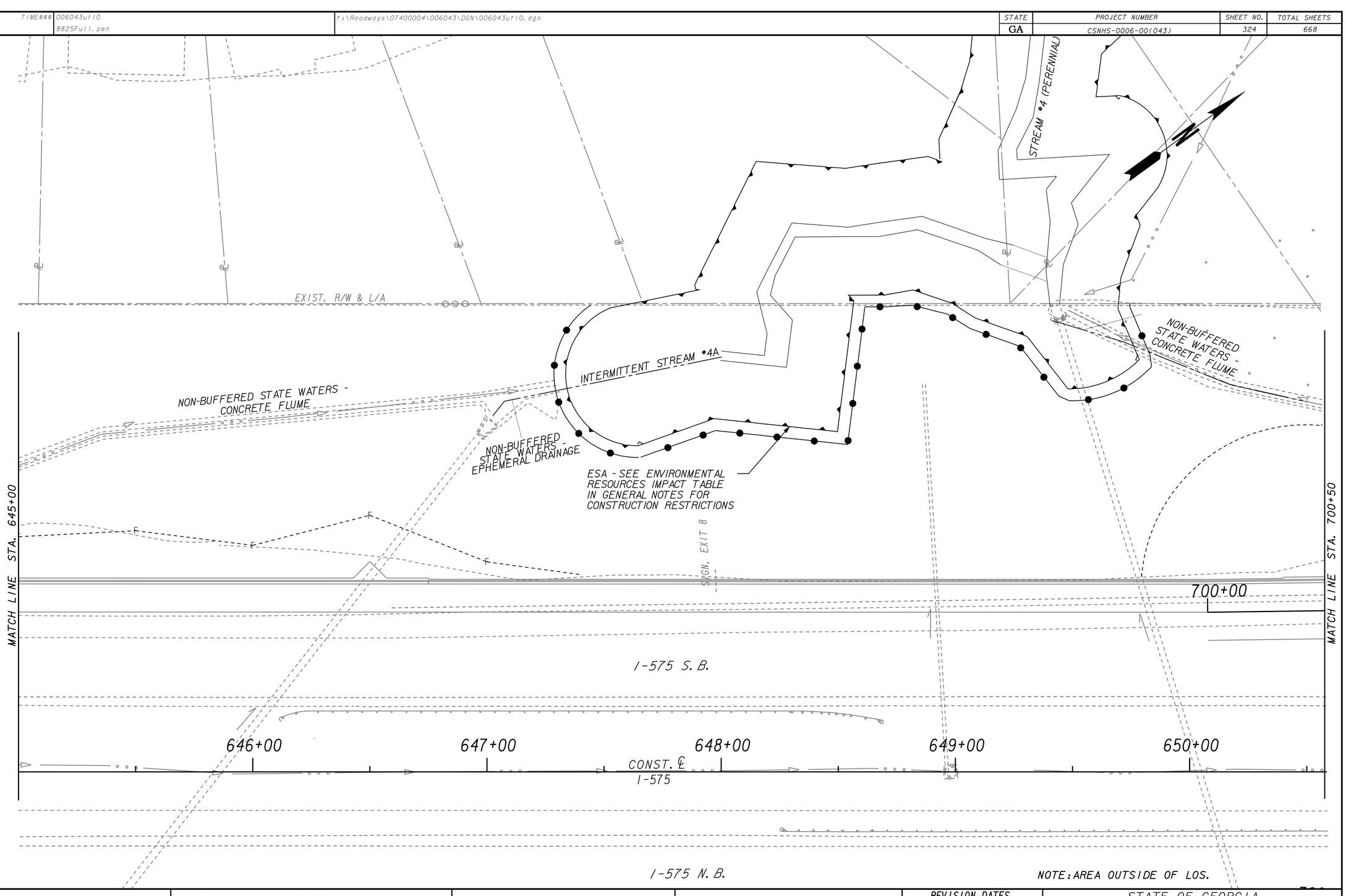
UTILITY PLANS

I-575 SB AUXILIARY LANE
STA. 639+50 TO STA. 645+00

DRAWING No. 24-009

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

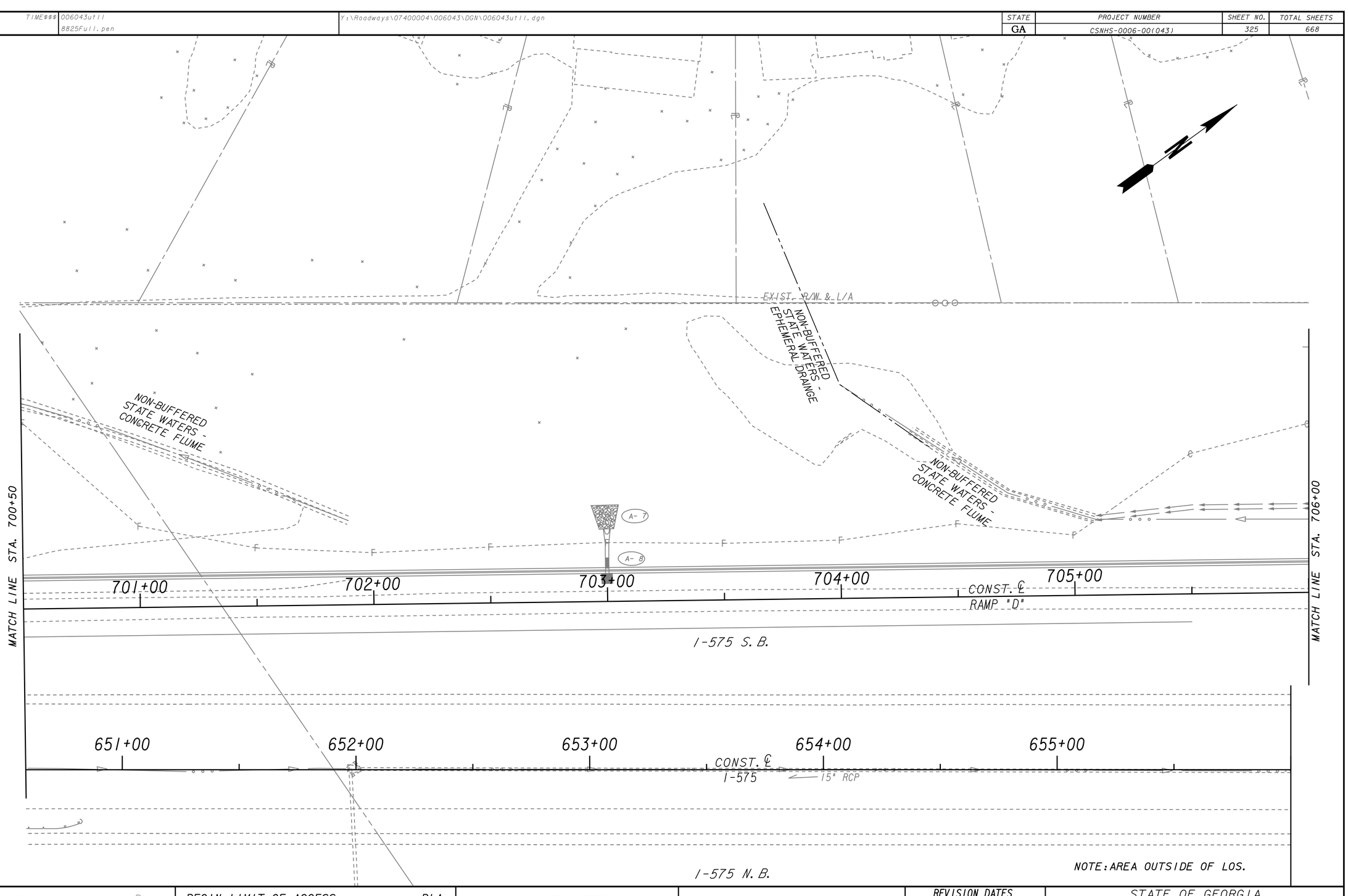
UTILITY PLANS

I-575 SB AUXILIARY LANE
645+00 TO BEG. RAMP D

DRAWING No. 24-010

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

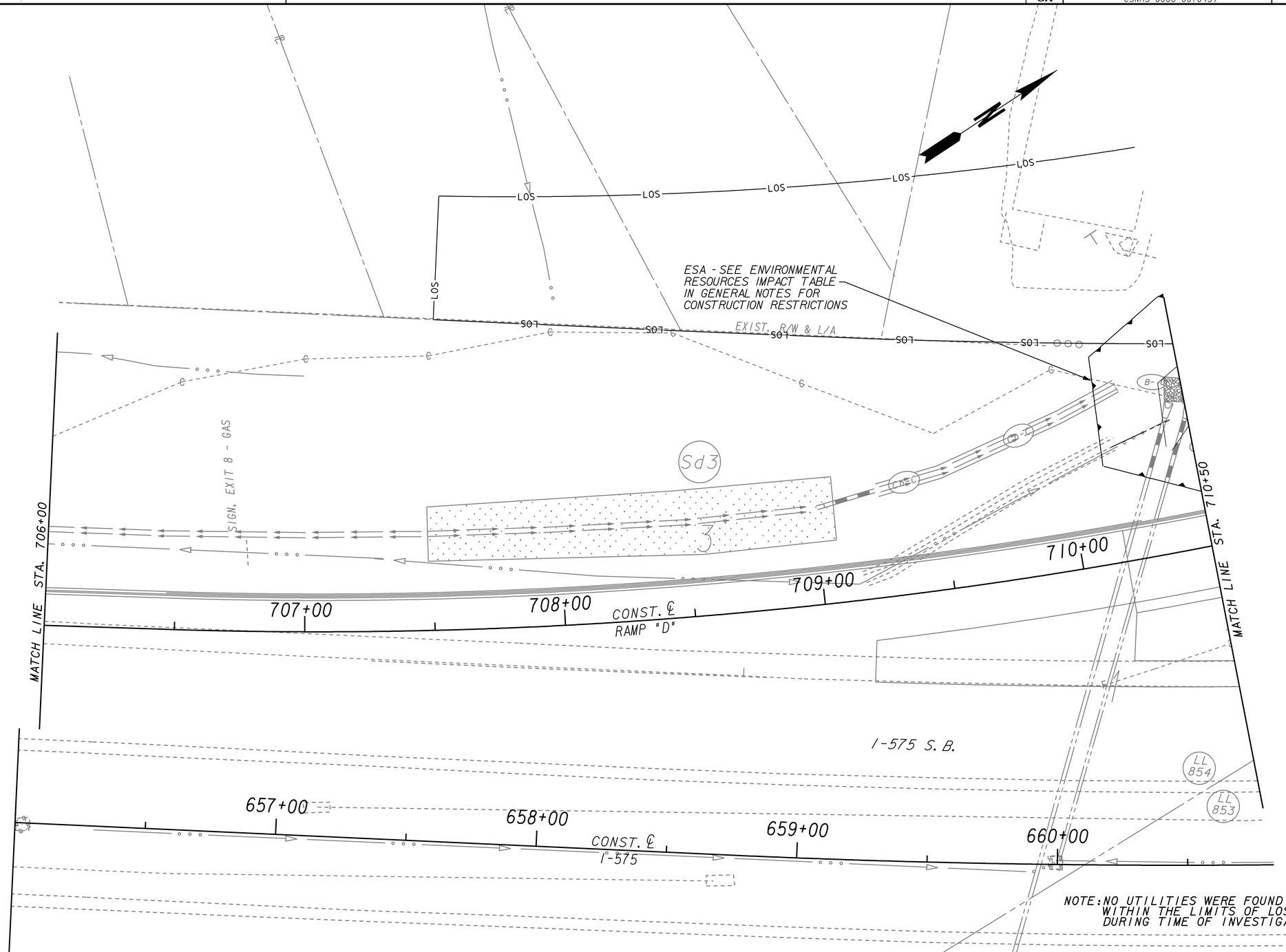
UTILITY PLANS

I-575 SB ENTRANCE RAMP D
STA. 700+50 TO STA. 706+00

DRAWING No. 24-011

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

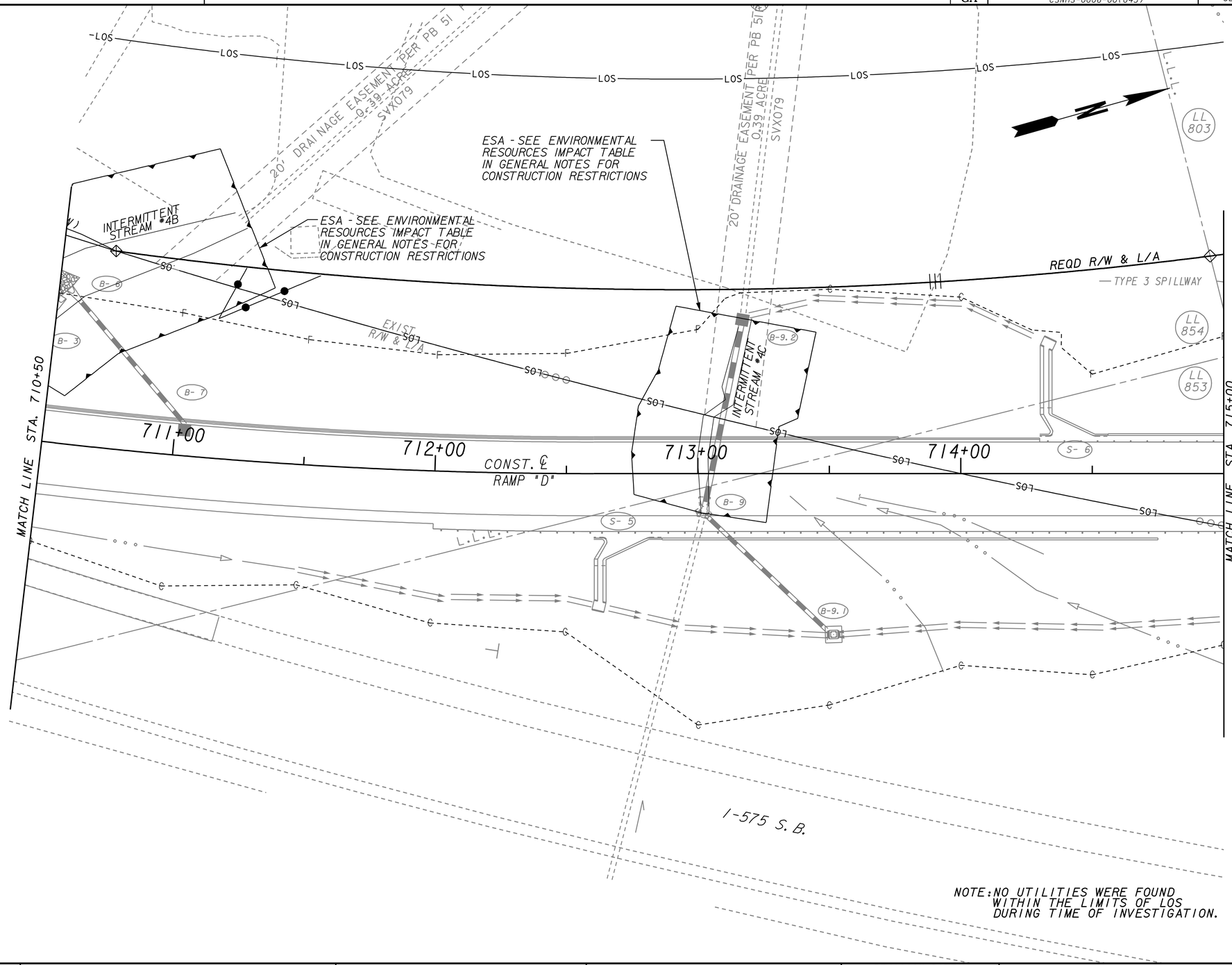
I-575 SB ENTRANCE RAMP D
STA. 706+00 TO STA. 710+50

DRAWING No. 24-012

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	327	668

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

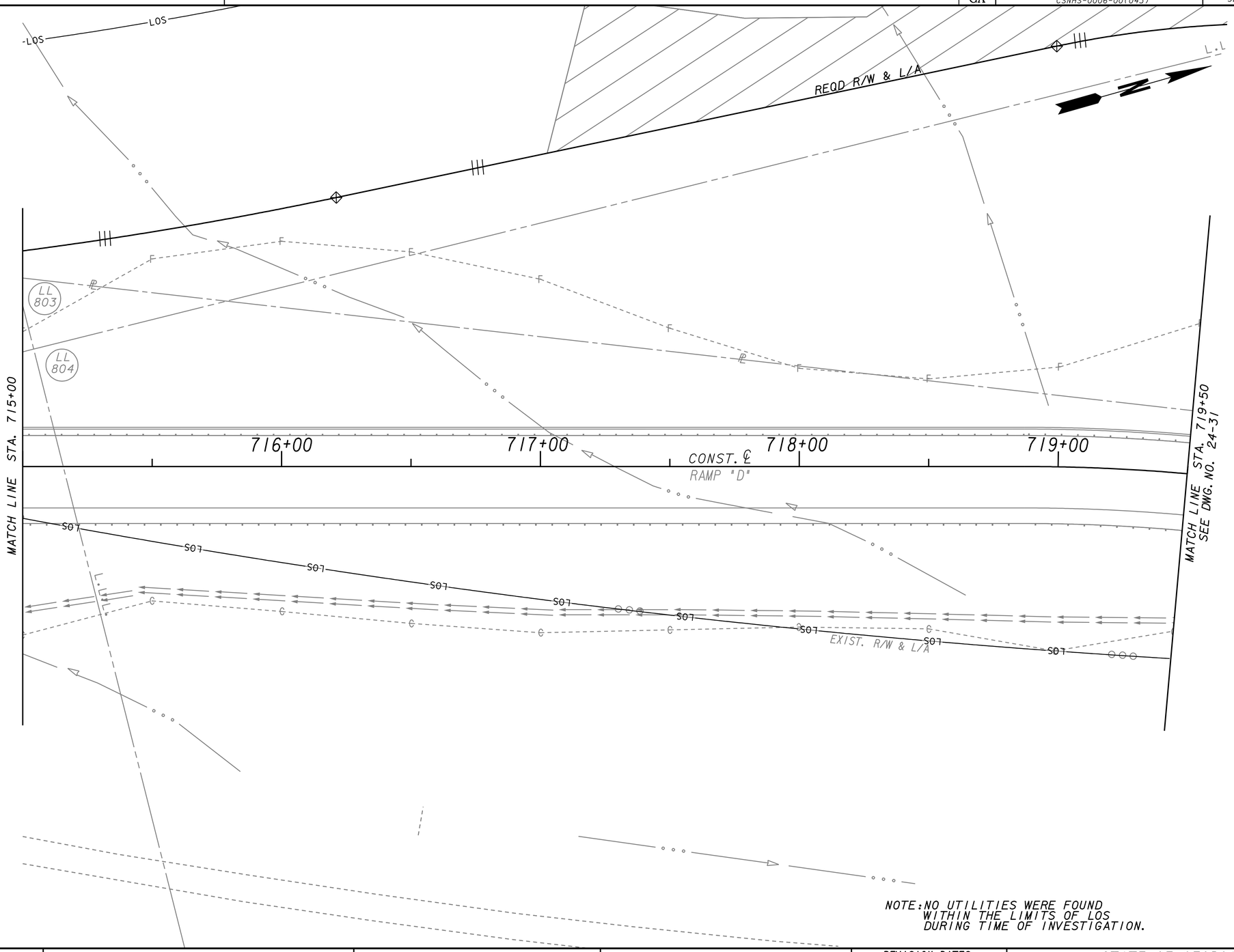
I-575 SB ENTRANCE RAMP D
STA. 710+50 TO STA. 715+00

DRAWING No. 24-013

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	328	668

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.

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

THE LPA GROUP
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A UNIT OF MICHAEL BAKER CORPORATION
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

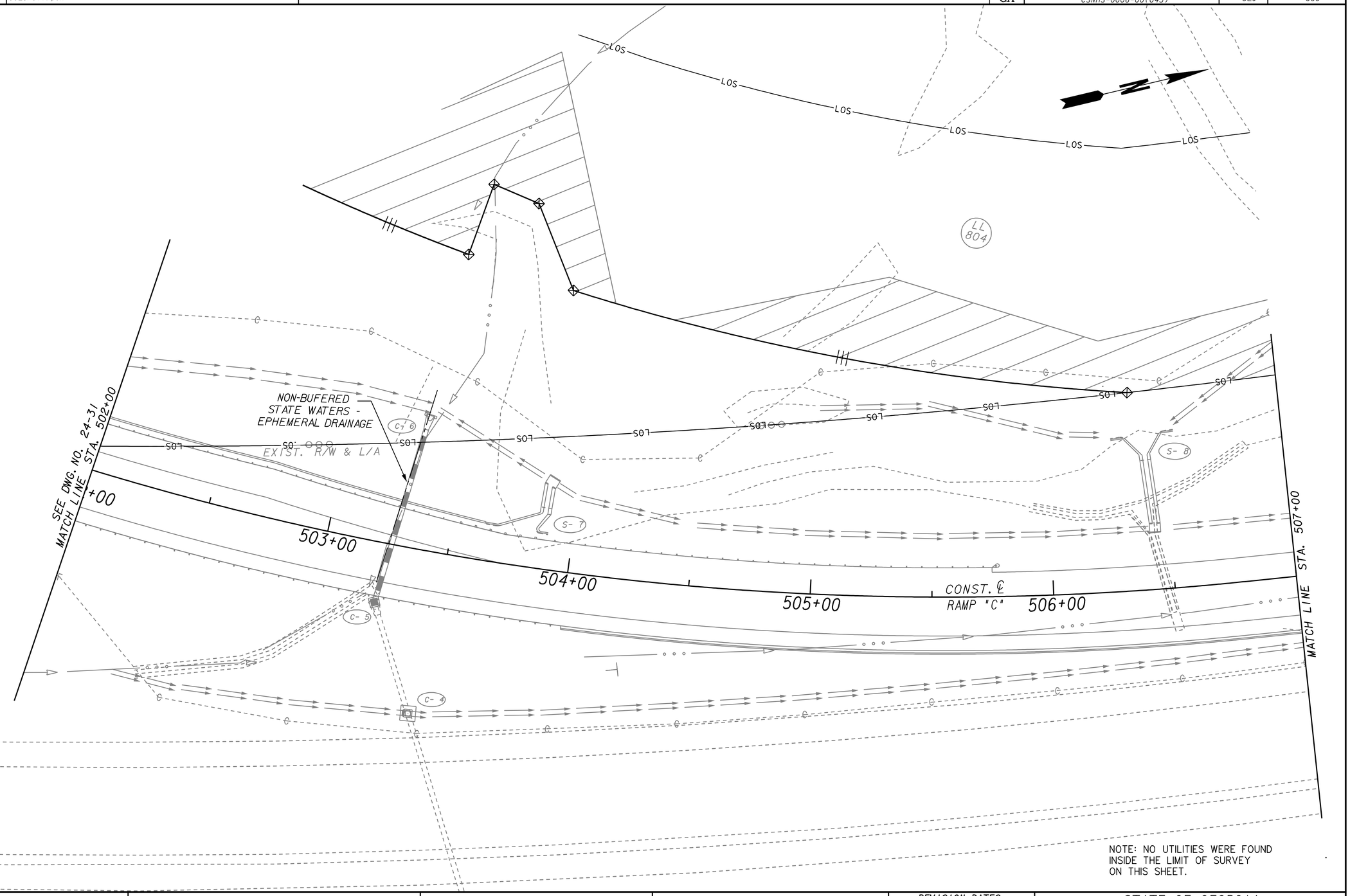
UTILITY PLANS

I-575 SB ENTRANCE RAMP D
STA. 715+00 TO STA. 719+50

DRAWING No. 24-014

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE: NO UTILITIES WERE FOUND INSIDE THE LIMIT OF SURVEY ON THIS SHEET.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

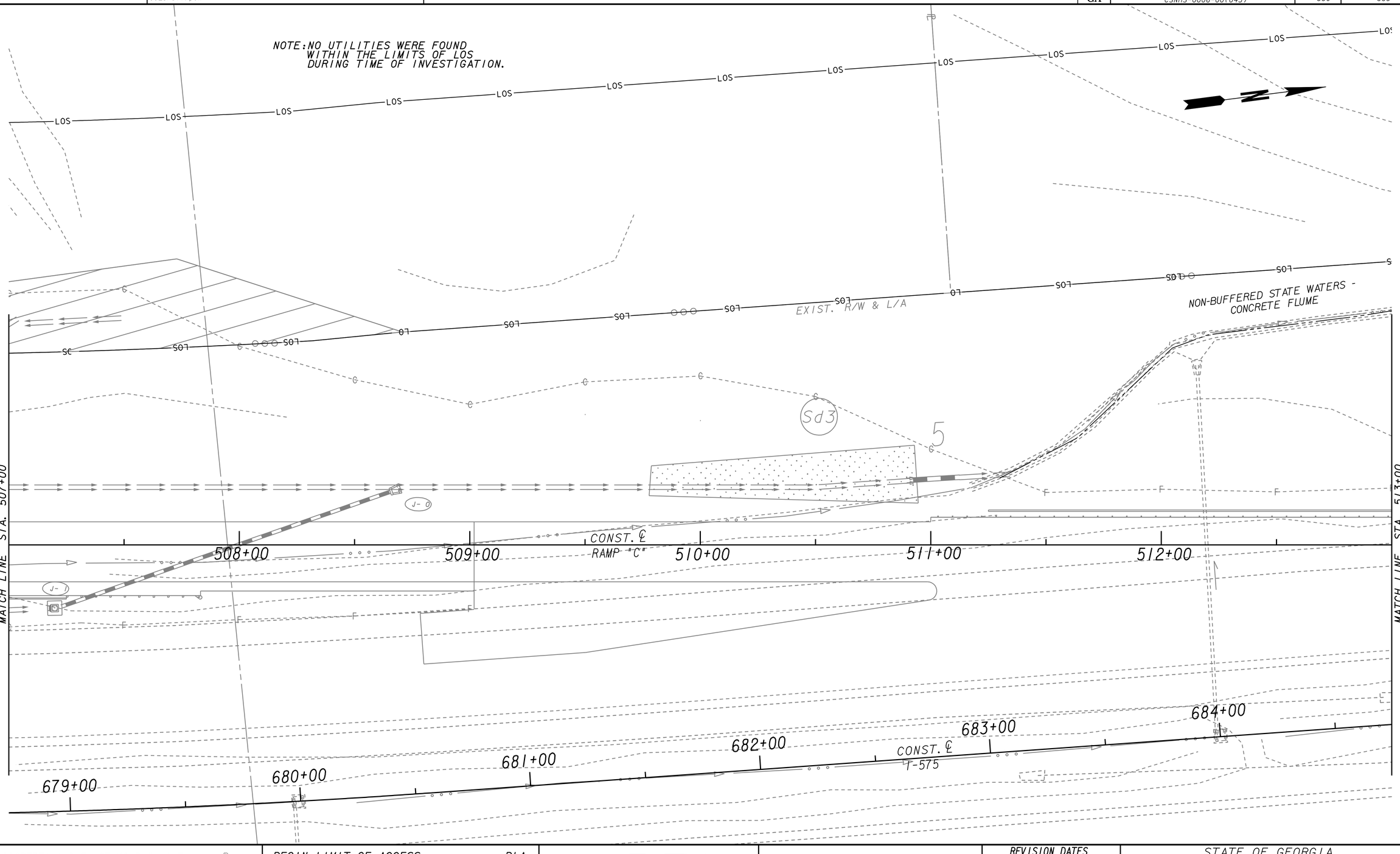
I-575 SB EXIT RAMP C
STA. 502+00 TO STA. 507+00

DRAWING No. 24-015

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

I-575 SB EXIT RAMP C
STA. 507+00 TO STA. 513+00

DRAWING No. 24-016

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	331	668

RELEASED FOR CONSTRUCTION 12/02/10

LOS

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

INTERMITTENT STREAM #7

EXIST. R/W & L/A

NON-BUFFERED STATE WATERS - CONCRETE FLUME

END RAMP "C"
STA. 516+03.74

MATCH LINE STA. 513+00

514+00

CONST. ℄ RAMP "C"

515+00

516+00

I-575 S.B.

685+00 686+00 687+00 688+00 689+00 690+00

CONST. ℄ I-575

NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.

I-575 N.B.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

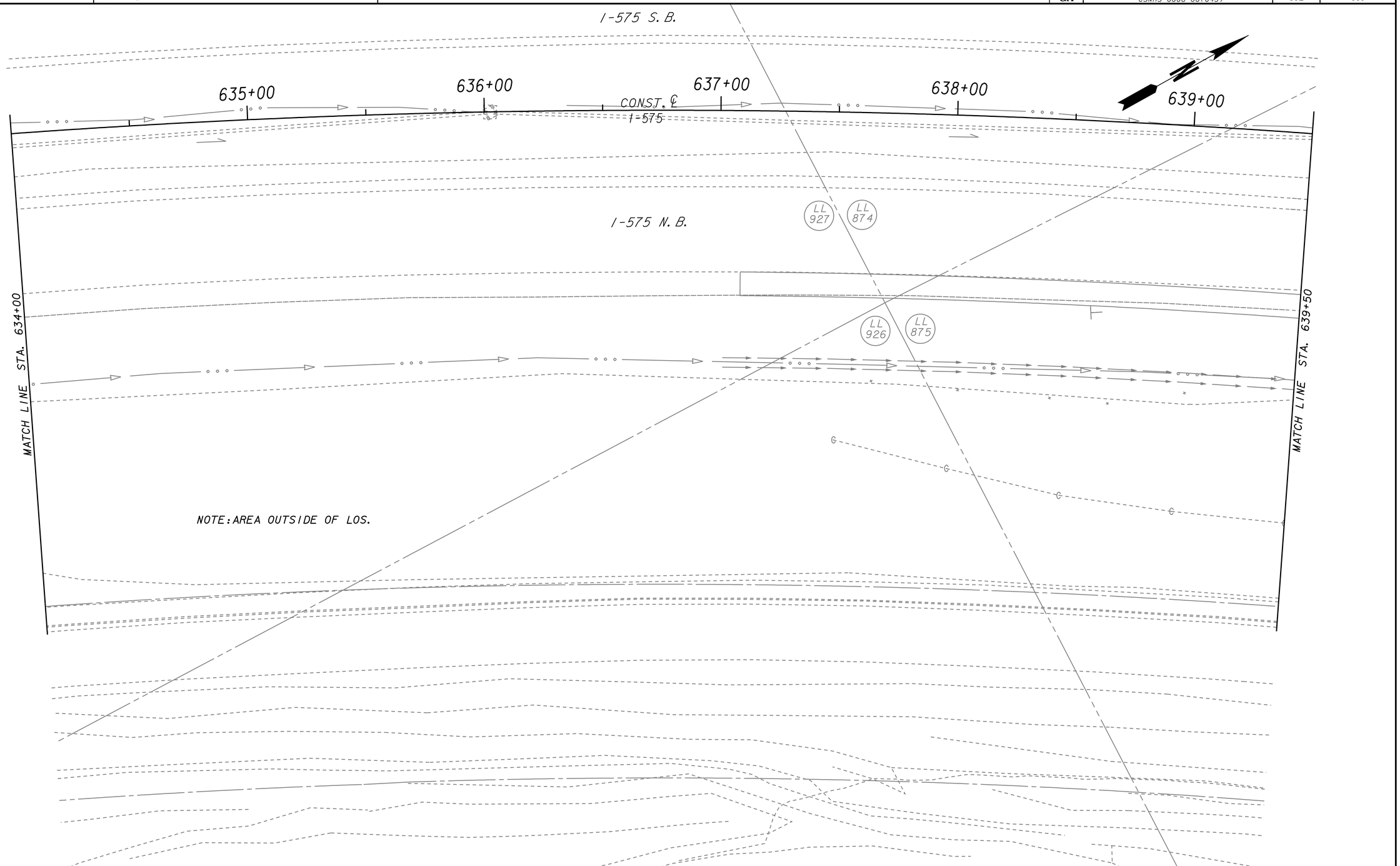
UTILITY PLANS

I-575 SB EXIT RAMP C
STA. 513+00 TO END CONST.

DRAWING No. 24-017

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

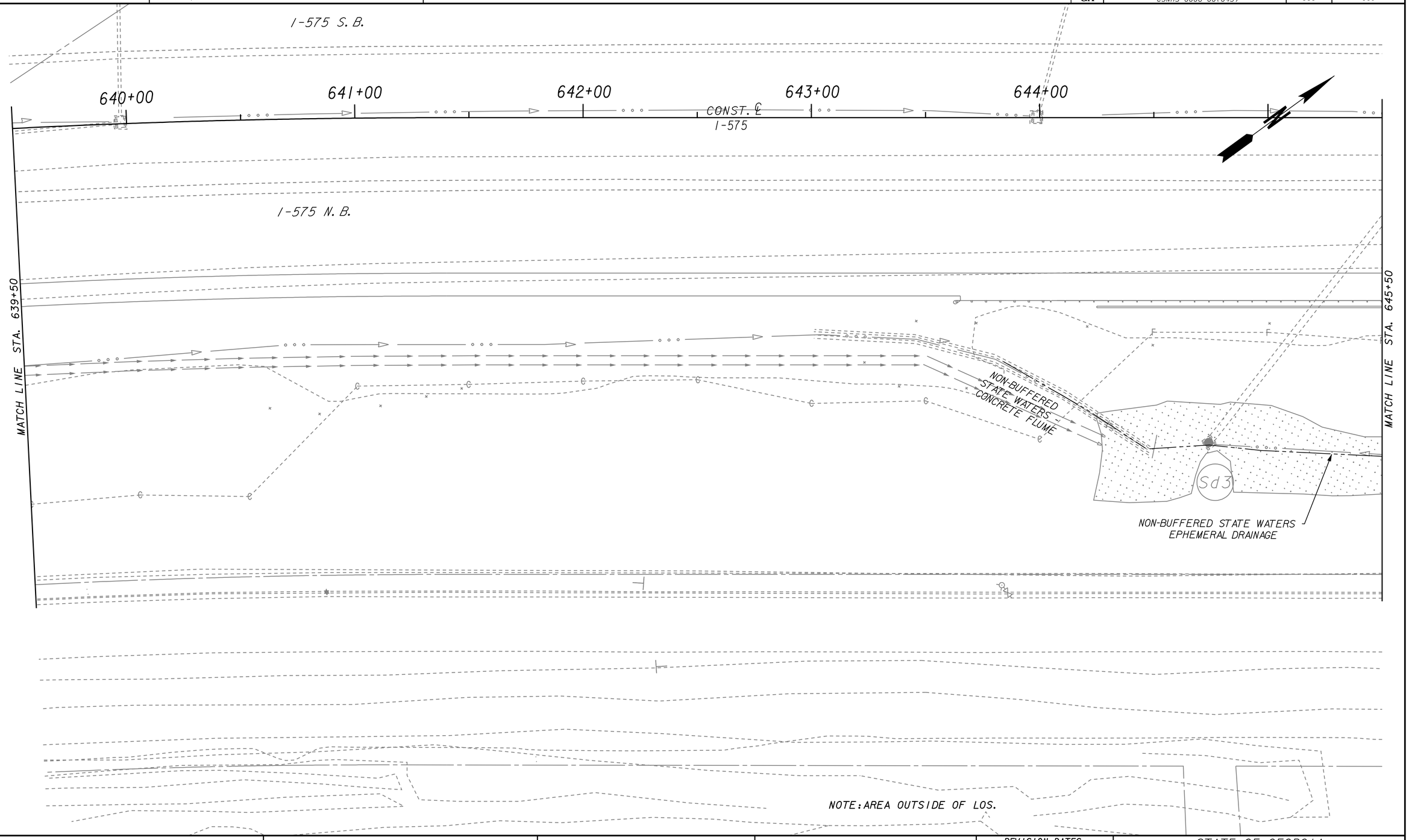
UTILITY PLANS

I-575 NB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 24-018

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

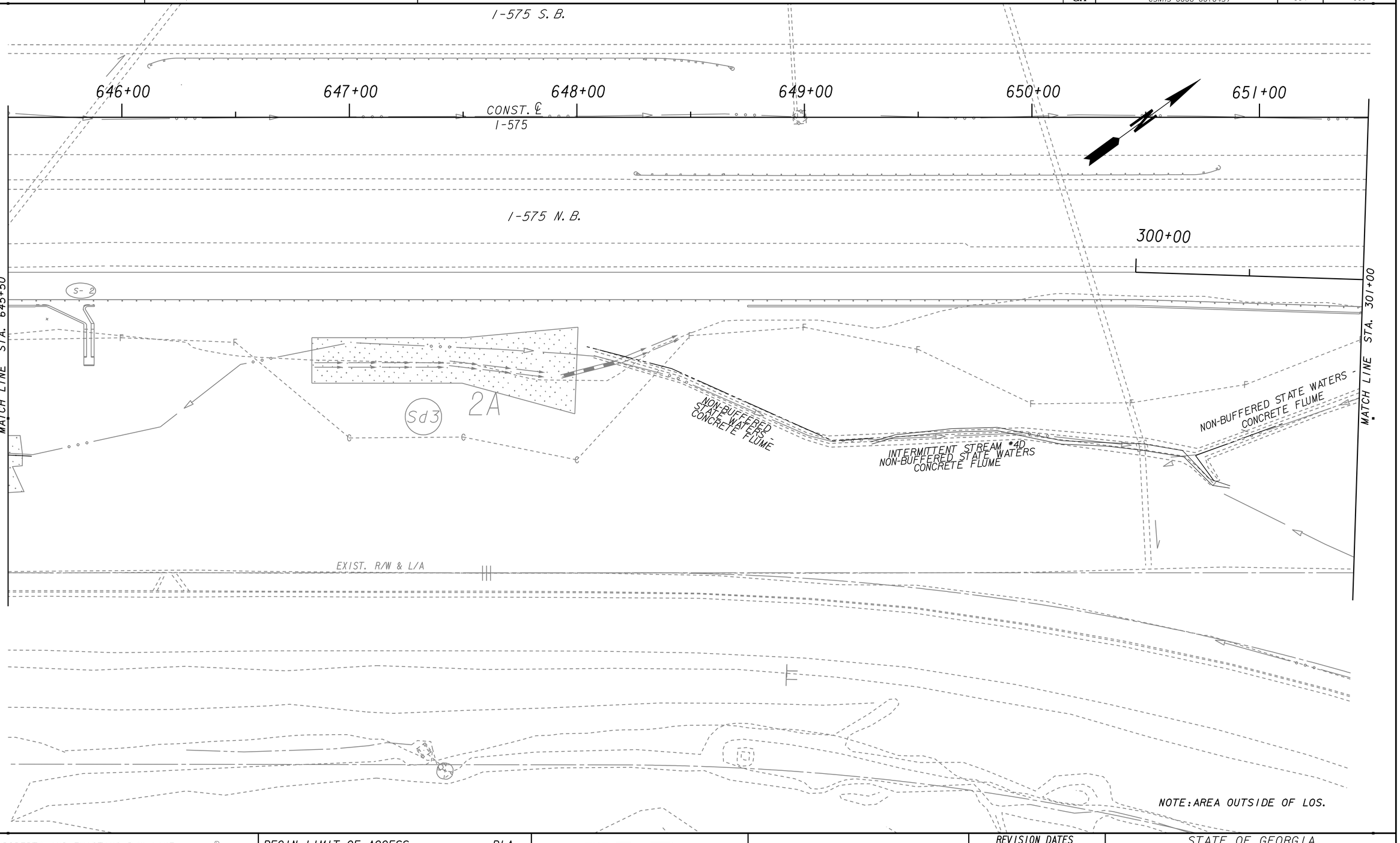
UTILITY PLANS

I-575 NB AUXILIARY LANE
STA. 639+50 TO STA. 645+50

DRAWING No. 24-019

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

I-575 NB EXIT RAMP A
I-575 NB AUXILIARY LANE
STA. 645+50 TO STA. 301+00

DRAWING No. 24-020

1/5/2009 GPLN

06-DEC-2010 12:14 | TIME$$$ 006043ut21 | JParks | 8825Full.pen | Y:\Roadways\07400004\006043\DGN\006043ut21.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	335	668

RELEASED FOR CONSTRUCTION 12/02/10

652+00 653+00 654+00 655+00 657+00

CONST. ℄ I-575

15" RCP

I-575 N.B.

MATCH LINE STA. 301+00

302+00 303+00 304+00 305+00 306+00

CONST. ℄ RAMP "A"

MATCH LINE STA. 307+00

S-3

2B

Sd3

LL 854

LL 853

LL 875

LL 854

EXIST. R/W & L/A

LOS LOS LOS LOS

LOS LOS LOS LOS

NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.

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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

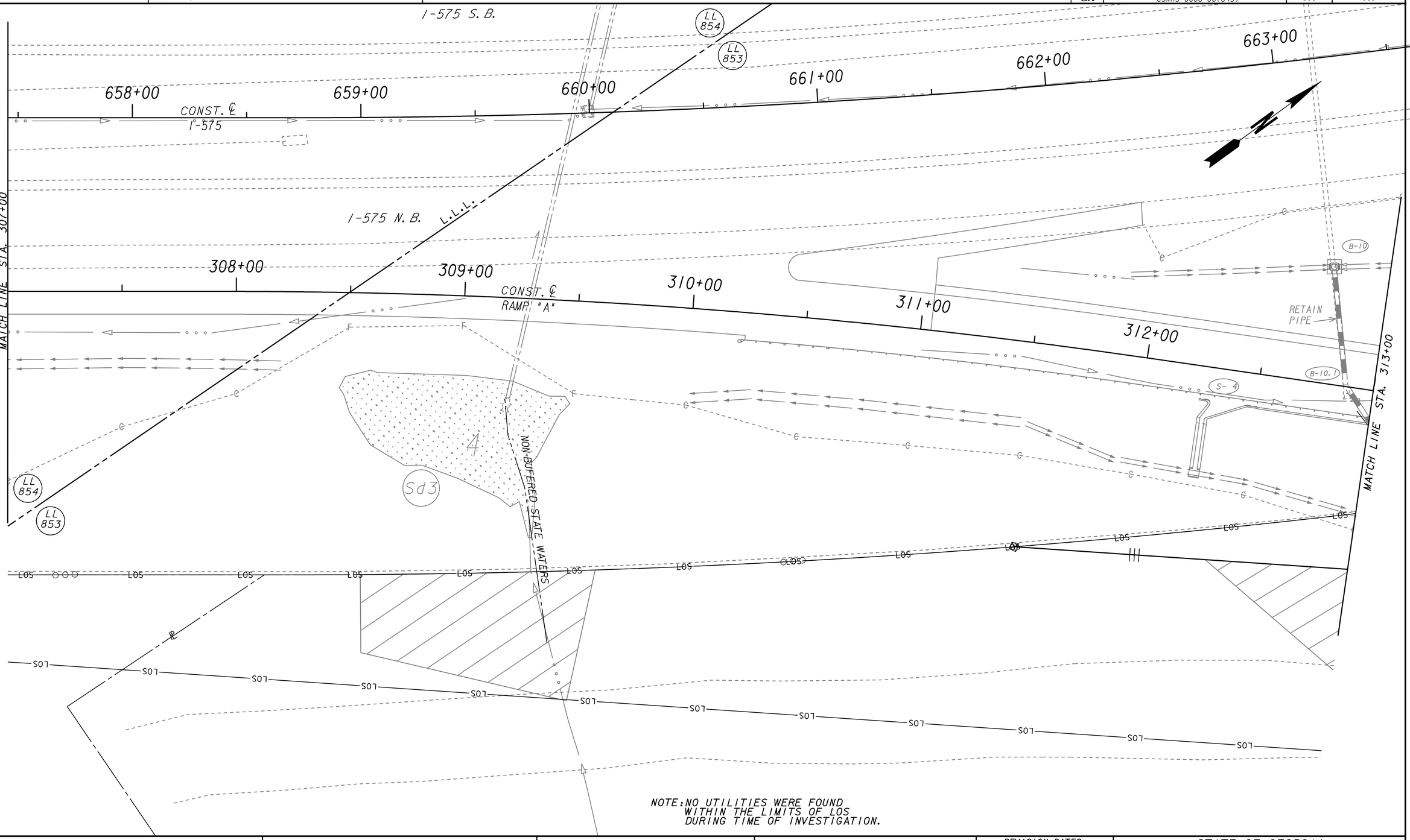
I-575 NB EXIT RAMP A
STA. 301+00 TO STA. 307+00

DRAWING No. 24-021

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	336	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

I-575 NB EXIT RAMP A
STA. 307+00 TO STA. 313+00

DRAWING No. 24-022

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

664+00 CONST. ℄ I-575

LL 804

LL 853

L.L.L.

314+00 315+00 316+00 317+00

CONST. ℄ RAMP "A"

MATCH LINE STA. 313+00

MATCH LINE STA. 318+00 SEE DWG. NO. 24-32

NON-BUFERED STATE WATERS - EPHEMERAL DRAINAGE

B-11

REQD R/W & L/A

REQ

LOS

NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.

100 PR ABANDONED

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

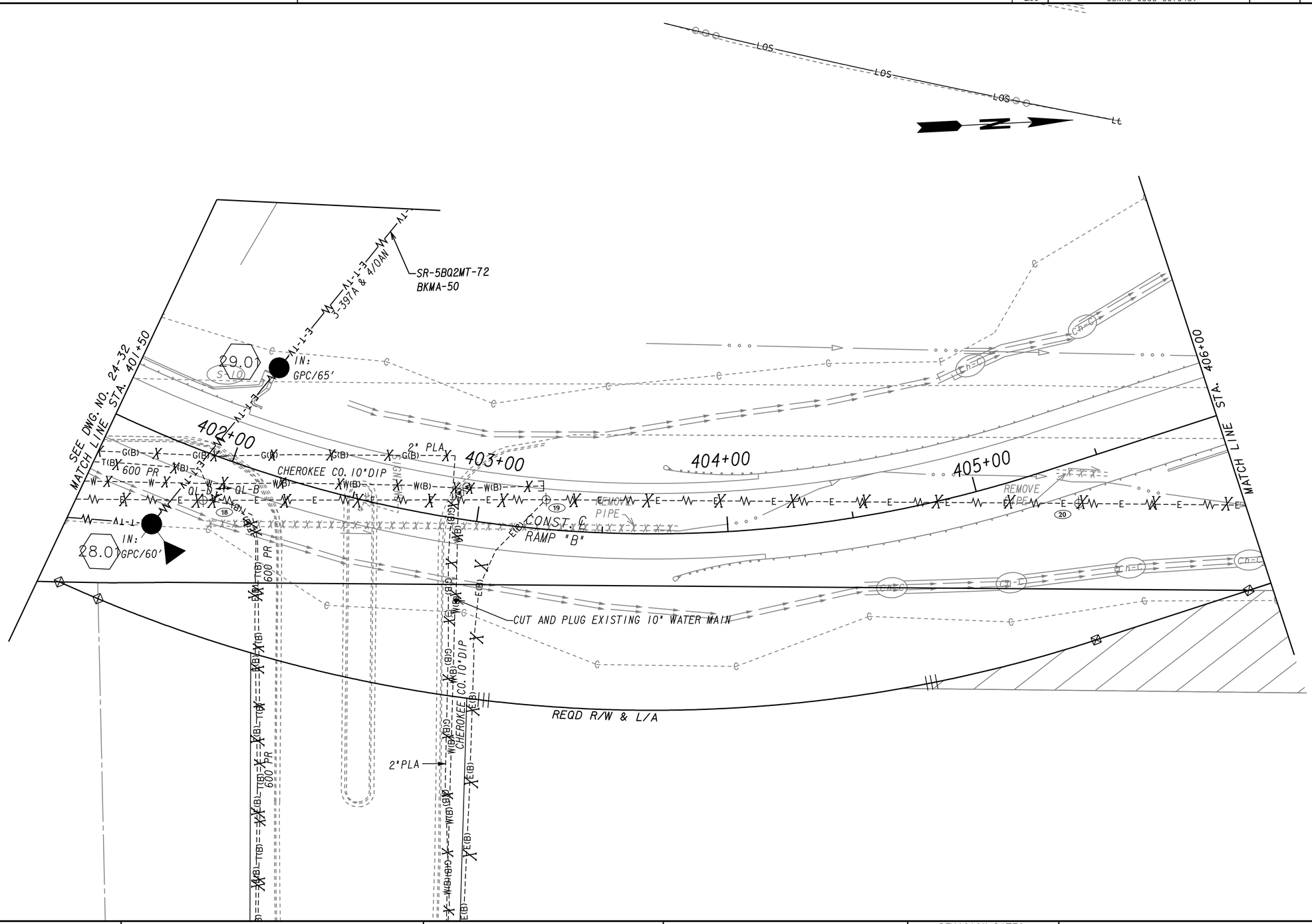
UTILITY PLANS

I-575 NB EXIT RAMP A
STA. 313+00 TO STA. 318+00

DRAWING No. 24-023

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

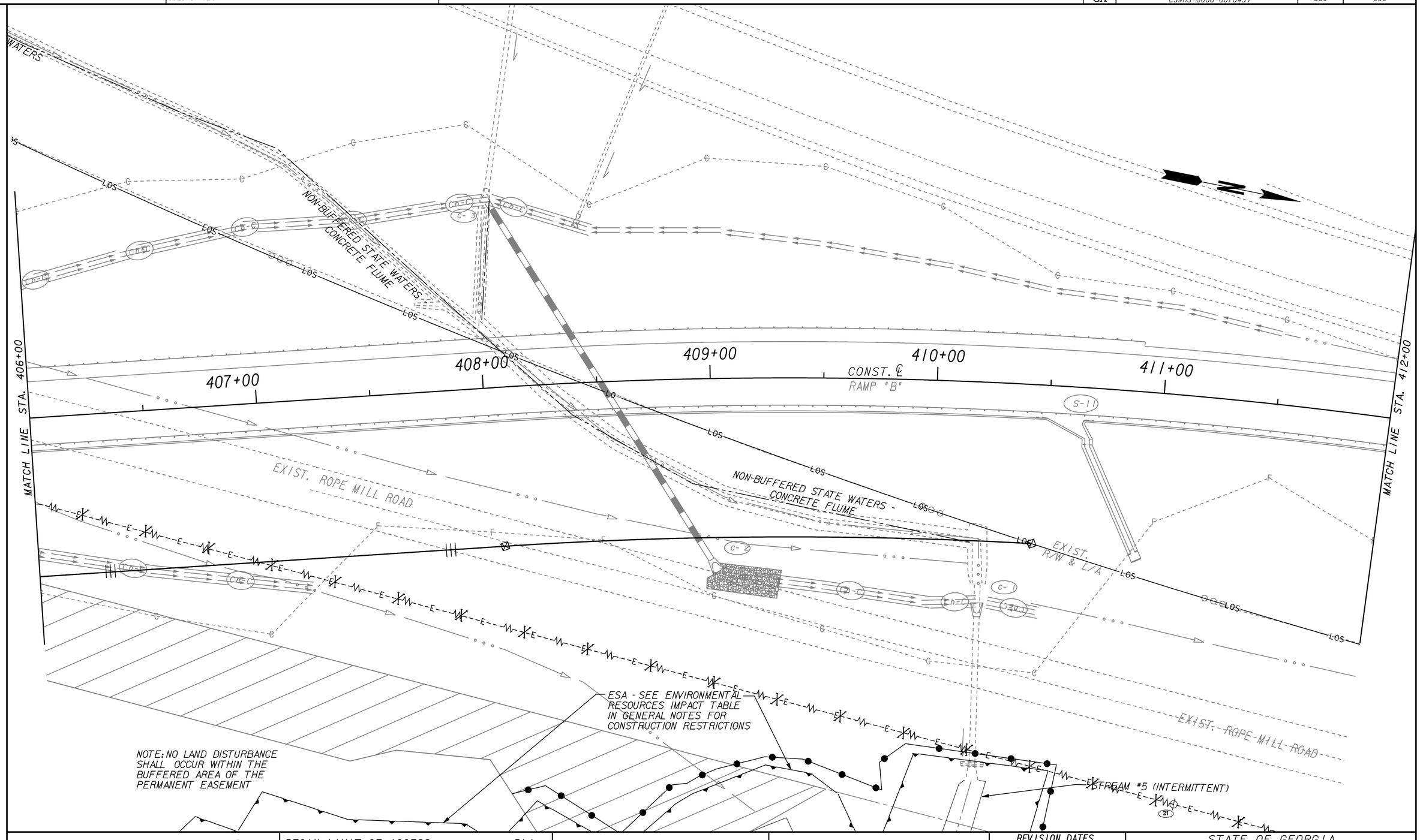
I-575 NB ENTRANCE LANE
STA. 401+50 TO STA. 406+00

DRAWING No. 24-024

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	339	668

RELEASED FOR CONSTRUCTION 12/02/10



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

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

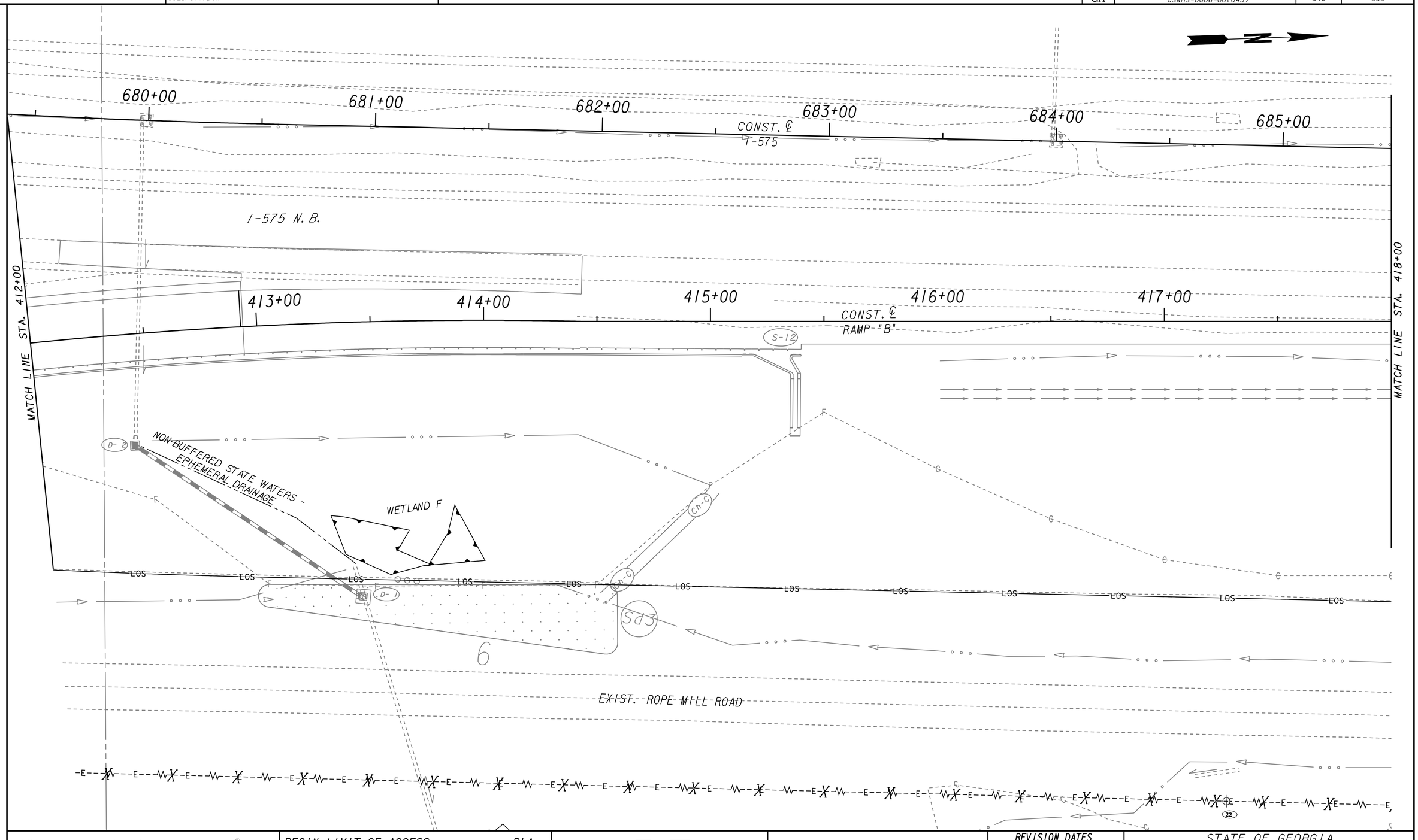
I-575 NB ENTRANCE LANE
STA. 406+00 TO STA. 412+00

DRAWING No. 24-025

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	340	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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REQ'D R/W & LIMIT OF ACCESS

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

I-575 NB ENTRANCE LANE
STA. 412+00 TO STA. 418+00

DRAWING No. 24-026

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

686+00 687+00 688+00 689+00 690+00 691+00

CONST. ℄ I-575

I-575 N.B.

419+00 420+00 421+00 422+00 423+00

CONST. ℄ RAMP "B"

MATCH LINE STA. 418+00

MATCH LINE STA. 424+00

Ch-C

EXIST. R/W & L/A

EXIST. R/W & L/A

EXIST. ROPE MILL ROAD

NOTE: NO UTILITIES WERE FOUND INSIDE THE LIMIT OF SURVEY ON THIS SHEET.

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

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REQ'D R/W & LIMIT OF ACCESS

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REVISION DATES

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DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

I-575 NB ENTRANCE LANE
STA. 418+00 TO STA. 424+00

DRAWING No. 24-027

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

N

I-575 S.B.

692+00 693+00 694+00 695+00 696+00 697+00

CONST. ℄ I-575

I-575 N.B.

MATCH LINE STA. 424+00

425+00 426+00 427+00

CONST. ℄ RAMP "B"

END RAMP "B" STA. 427+96.04

S-13 S-14

SIGN. EXIT 11 SIXES RD

LOS LOS LOS

INTERMITTENT STREAM #7

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

NOTE: NO UTILITIES WERE FOUND WITHIN THE LIMITS OF LOS DURING TIME OF INVESTIGATION.

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

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

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

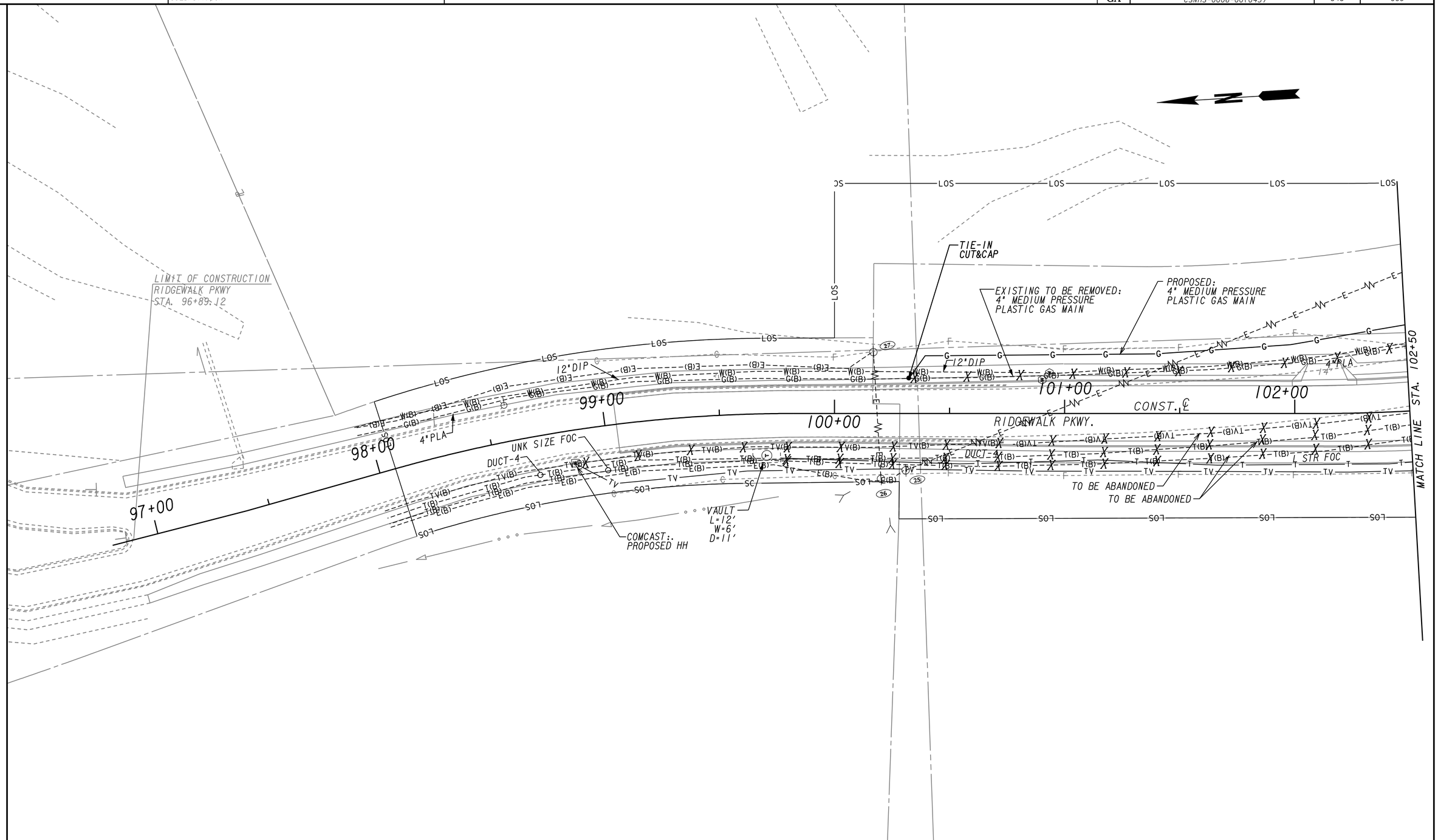
I-575 NB ENTRANCE LANE
STA. 424+00 TO END CONST.

DRAWING No. 24-028

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	343	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

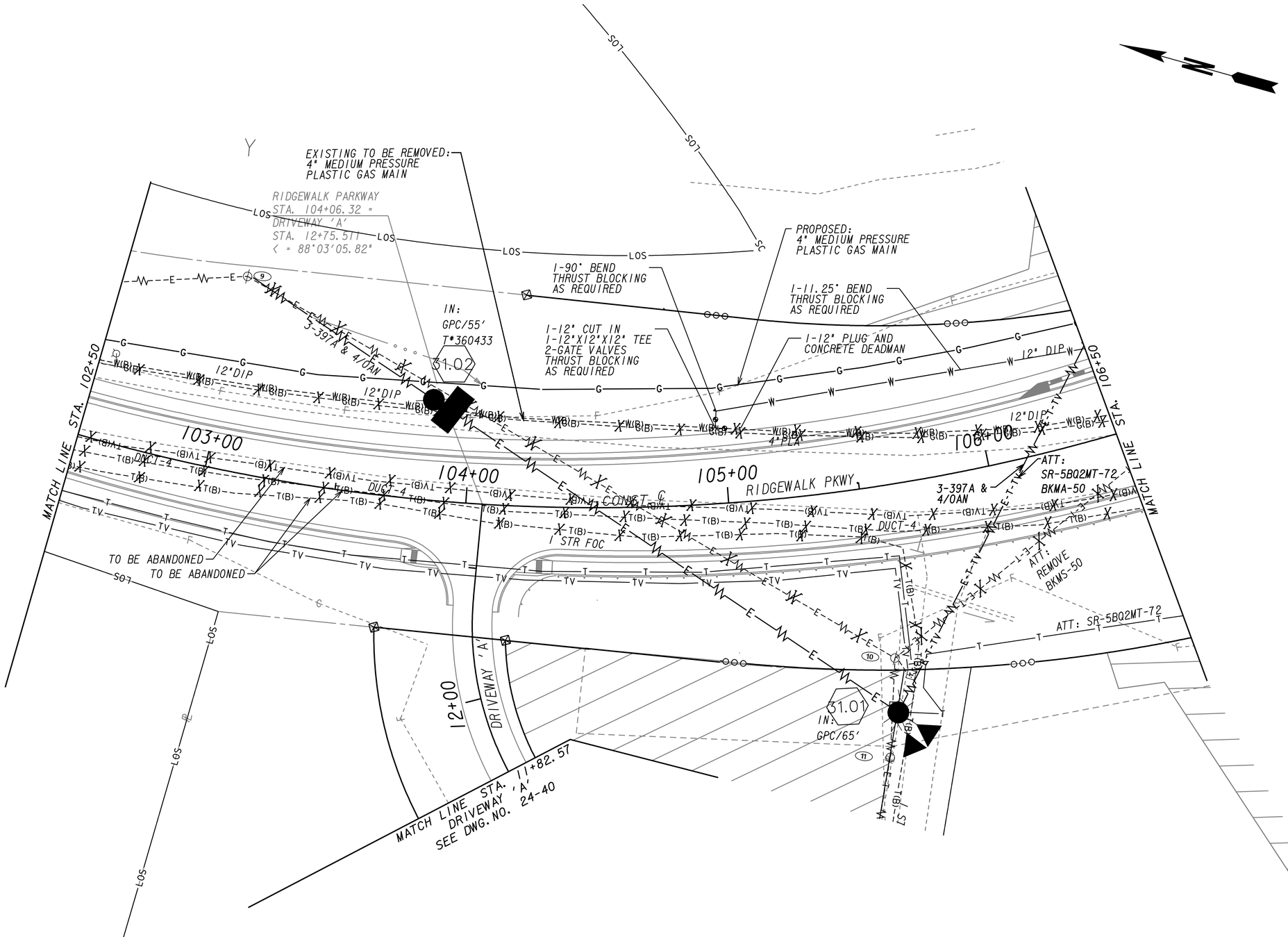
UTILITY PLANS

RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 24-029

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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REQUIRED R/W LINE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

RIDGEWALK PARKWAY
STA. 102+50 TO STA. 106+50

DRAWING No. 24-030

1/5/2009 GPLN

06-DEC-2010 12:15	TIME###	006043ut31	Y:\Roadways\07400004\006043\DGN\006043ut31.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	345	668

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 24-15
EXIT RAMP C
MATCH LINE STA. 502+00

502+00

CONST. ℄ RAMP "C"

501+00

30.01
IN: GPC/80'

68 LF 18" STEEL CASING

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB EXIT RAMP "S"
STA. 500+00.00
< = 79°47'14.19"

PROPOSED: 6" X 55' GAS CASING

PROPOSED: 4" MEDIUM PRESSURE PLASTIC GAS MAIN

1-45° BEND THRUST BLOCKING AS REQUIRED

1" COMBINATION AIR RELEASE VALVE

PROPOSED: 500' X 4" MEDIUM PRESSURE STEEL GAS MAIN

3-397A & 4/0AN

CONST. ℄ I-575

NON-BUFFERED STATE WATERS - CONCRETE FLUME

PROPOSED: 6" X 30' GAS CASING

30 LF 18" STEEL CASING

1-11.25° BEND THRUST BLOCKING AS REQUIRED

1-FH ASSEMBLY (TYP)
IN: GPC/70'

30.02

IN: GPC/35'

4DA

MATCH LINE STA. 106+50

12" DIP

REMOVE BKMS-50

108+00

GAS MATERIAL TYPE CHANGE

109+00

1-45° BEND THRUST BLOCKING AS REQUIRED

30 LF 18" STEEL CASING

110+00

111+00

112+00

CONSTRUCTION JOINT

CONST. ℄

RIDGEWALK PKWY

BRIDGE COLUMN

MATCH LINE STA. 112+50

12"DIP

4"PLA

4"STL

EXISTING TO BE REMOVED: 4" MEDIUM PRESSURE PLASTIC GAS MAIN

NO ACCESS MANHOLE LOCKED

DUCT-4

VAULT L=12' W=6' D=11' TO REMAIN

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB ENTRANCE RAMP "D"
STA. 721+04.45
< = 79°47'13.39"

ATT: PLACE NEW DUCT-4 FOR FUTURE USE

ATT: 4-4" FIBERGLASS DUCTS (FOR FUTURE USE)

ATT: TO BE ABANDONED

COMCAST: TO BE ABANDONED

SVXX025
MENT PER PB 21PG 176
0.11ACRE

LL 804

LL 803

ABANDON IN PLACE: 6" X 42' GAS CASING

720+00

CONST. ℄ RAMP "D"

MATCH LINE STA. 719+50
ENTRANCE RAMP D
SEE DWG. NO. 24-14

I-575 SOUTHBOUND

I-575 NORTHBOUND

670+00

679+00

669+00

PROPERTY AND EXISTING R/W LINE
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

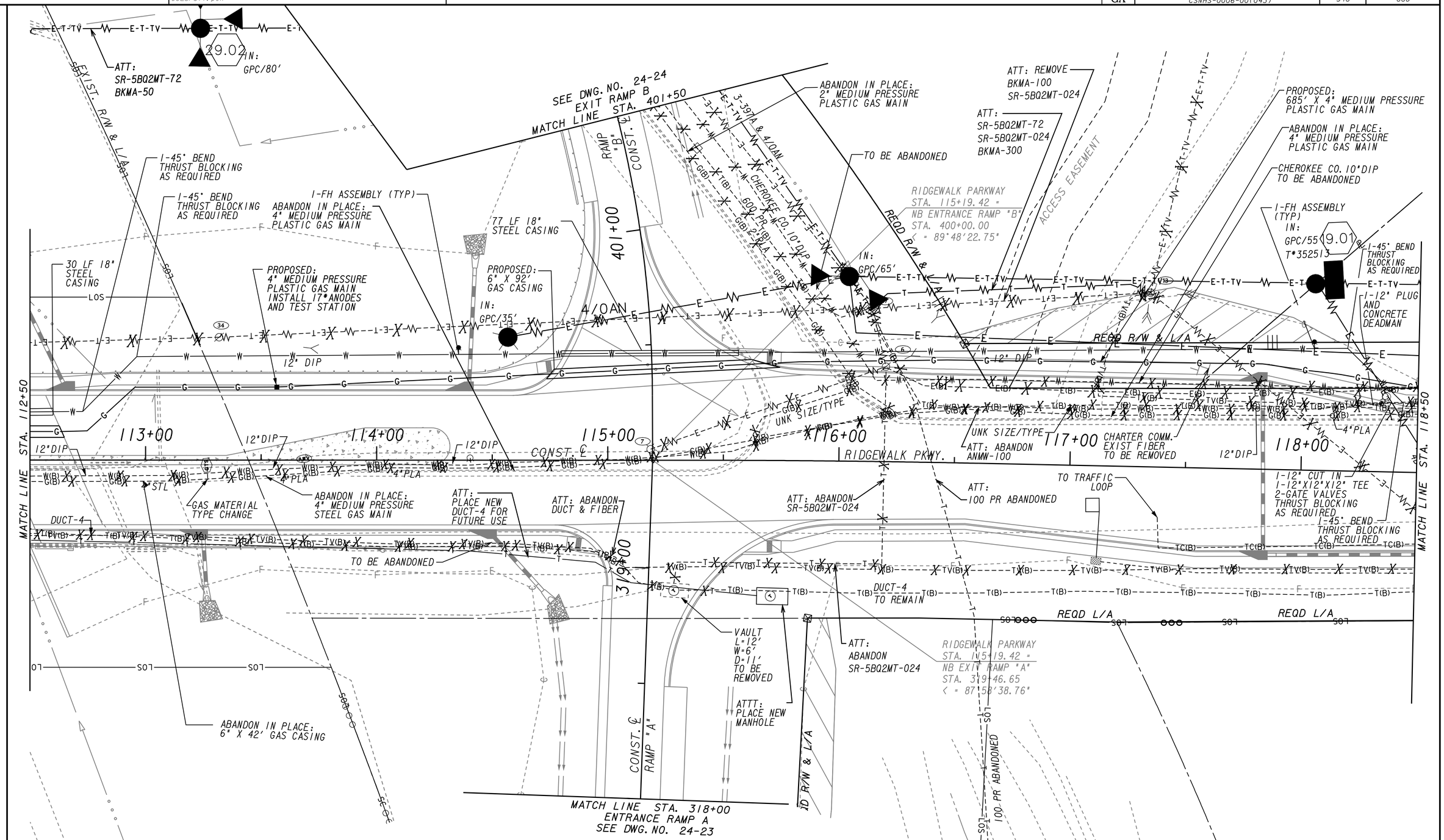
UTILITY PLANS

RIDGEWALK PARKWAY
STA. 106+50 TO STA. 112+50

DRAWING No. 24-031

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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REVISION DATES

STATE OF GEORGIA
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UTILITY PLANS

RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 24-032

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 24-34 MATCH LINE STA. 201+50

PROPOSED 10" DIP WATER MAIN

PROPOSED: 666' X 2" MEDIUM PRESSURE PLASTIC GAS MAIN

CHARTER COMM. PROPOSED UG FIBER

REQD R/W

RELOC. ROPE MILL RD

201+00

ATT: SR-5BQ2MT-72 SR-5BQ2MT-024 BKMA-300

28.02

IN: GPC/60'

GPC SWITCHING CUBILE TOP EL=1003.18

21.01

CUT AND PLUG EXISTING 10" WATER MAIN

PROPOSED COMCAST

10" GATE VALVE

10" 45 DEG BEND

10X10X10 TEE

COMCAST PROPOSED HH

CHARTER COMM. PROPOSED HH

10" GATE VALVE TIE-IN

CHARTER COMM. EXISTING HH TO BE REMOVED

TIE-IN CUT&CAP TO BE ABANDONED

CHEROKEE CO. 10"DIP

3-1000MCM

12" DIP

4"PLA

TIE-IN

ATT: SR-5BQ2MT-72

CONSTR

23

REMOVE PIPE & STRUCTURES

CHARTER COMM. EXISTING UG FIBER TO BE REMOVED

ATT: BKMA-100

ATT: ABANDON ANMW-100

CCOM UNK SIZE FO ADDED 09/10/2010

UNK SIZE/TYPE

12" DIP

RIDGEWALK PKWY.

TO TRAFFIC LOOP

CHEROKEE CO. 10"DIP

118+50 MATCH LINE STA. 103+

119+00

120+00

121+00

122+00

123+00

124+00

3-1000MCM DUCT-4

DUCT-4

AT&T MH RME6

VAULT L=12' W=6' D=11'

MANHOLE, TELEPHONE, TOP 984.10

CHEROKEE CO. 30"DIP

EXISTING TO REMAIN: 4" MEDIUM PRESSURE PLASTIC GAS MAIN

QL-B

QL-D

RIDGEWALK PARKWAY STA. 121+22.79= RELOC. OLD ROPE MILL ROAD STA. 200+00.00 < = 78°06'05.93"

ANMW-100

WOODSTOCK PKWY.

TO TRAFFIC LOOP

COMCAST PROPOSED HH

CHARTER COMM. PROPOSED HH

CCOM UNK SIZE FO ADDED 09/10/2010

TH* 1 CABLE TELEVISION
2" PVC INNERDUCT
N:1499794.494
E:2188314.077
GROUND ELEV.: 991.68'
TOP OF UTILITY ELEV. 988.24'
ACTUAL DEPTH: 3.44'
TEST HOLE DATA ADDED 09/10/2010

TH* 2 TELEPHONE DUCT BANK
1.25'W X 1.42'H
CONC. INCASED
N:1499780.494
E:2188318.457
GROUND ELEV.: 989.70'
TOP OF UTILITY ELEV. 984.38'
ACTUAL DEPTH: 5.32'
BOTTOM ACTUAL: 6.74'
TEST HOLE DATA ADDED 09/10/2010

PROPERTY AND EXISTING R/W LINE
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UTILITY PLANS

RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 24-033

1/5/2009 GPLN

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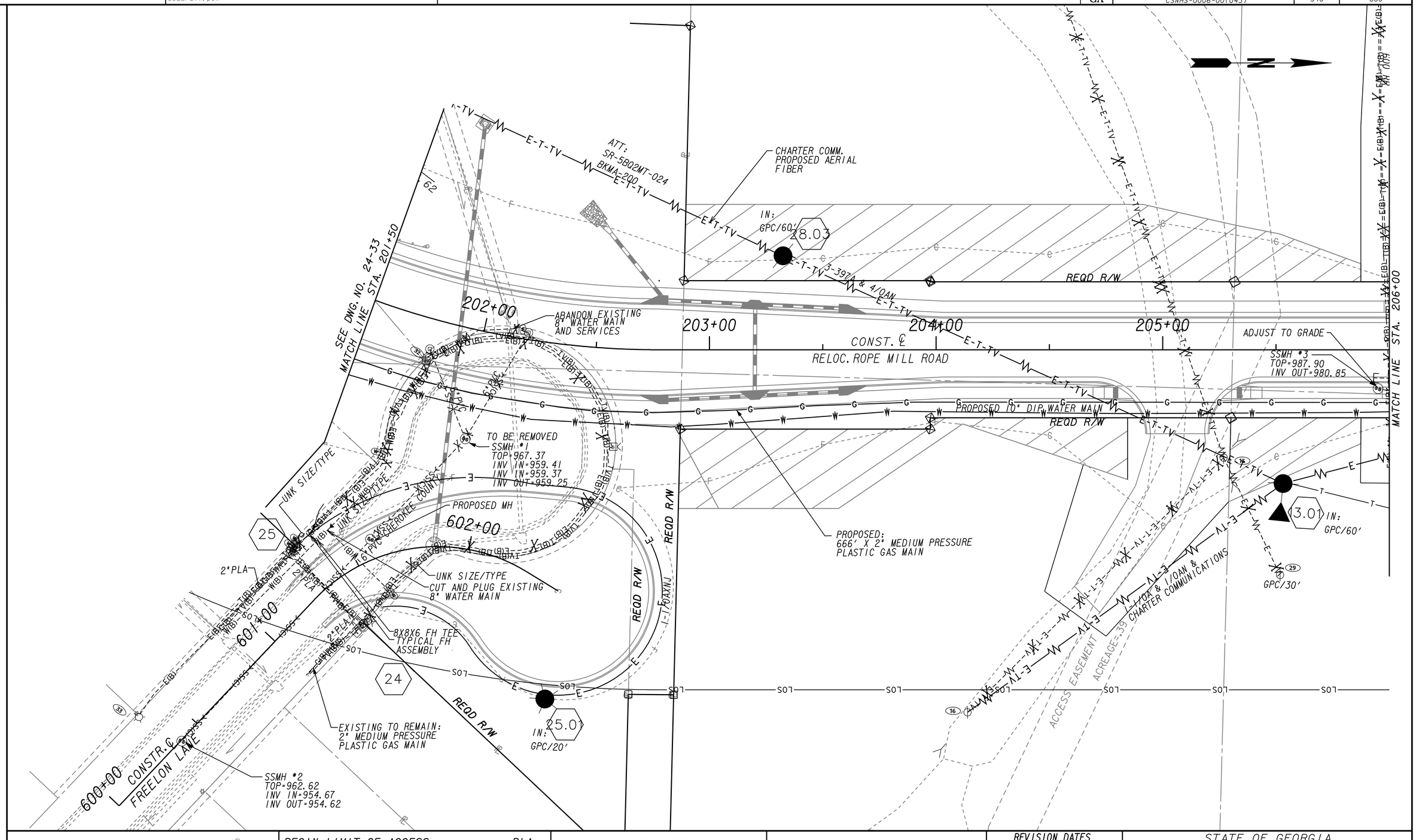

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UTILITY PLANS

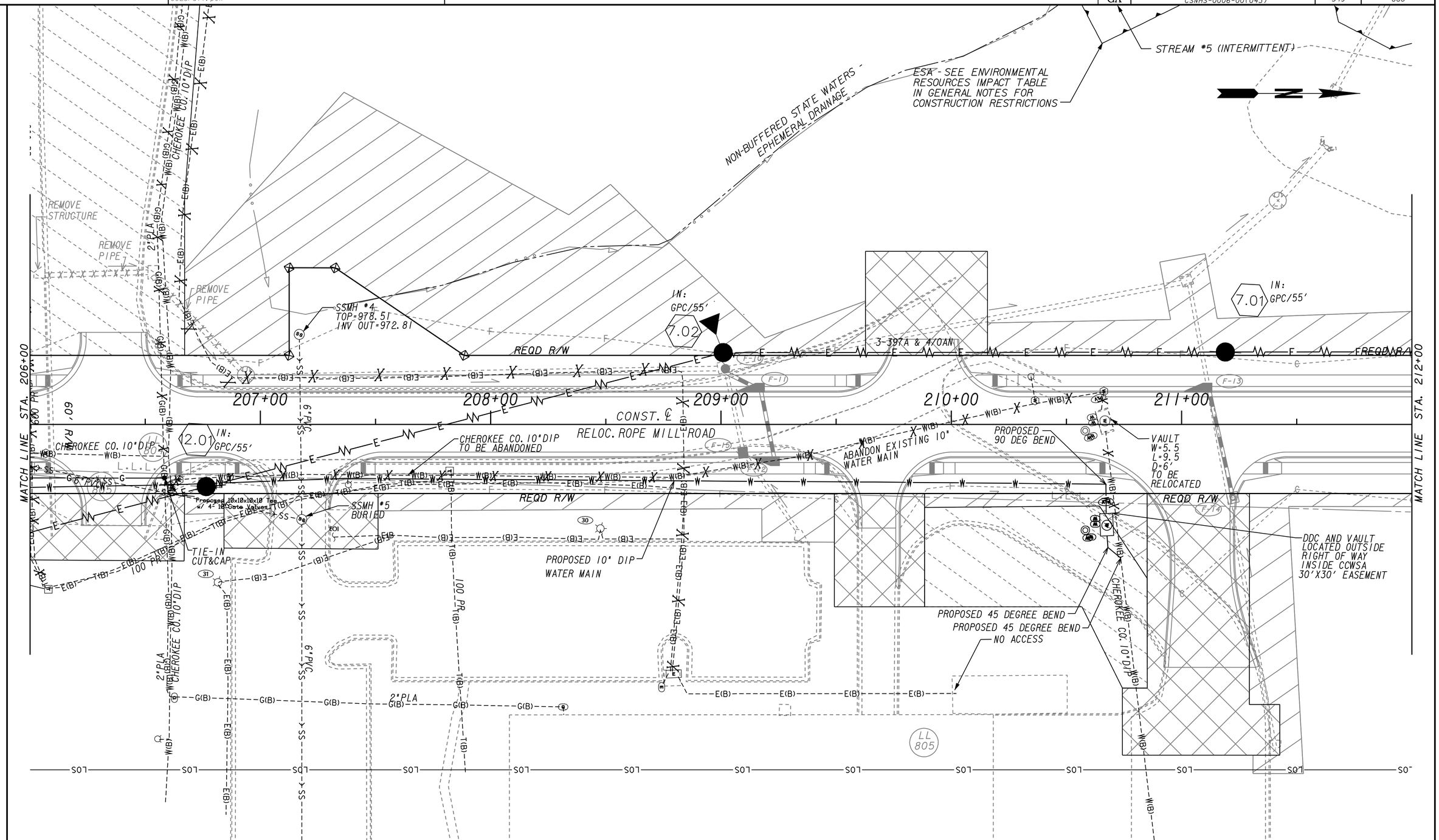
RELOC. ROPE MILL ROAD
STA. 201+50 TO STA. 206+00

DRAWING No. 24-034

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	349	668

RELEASED FOR CONSTRUCTION 12/02/10



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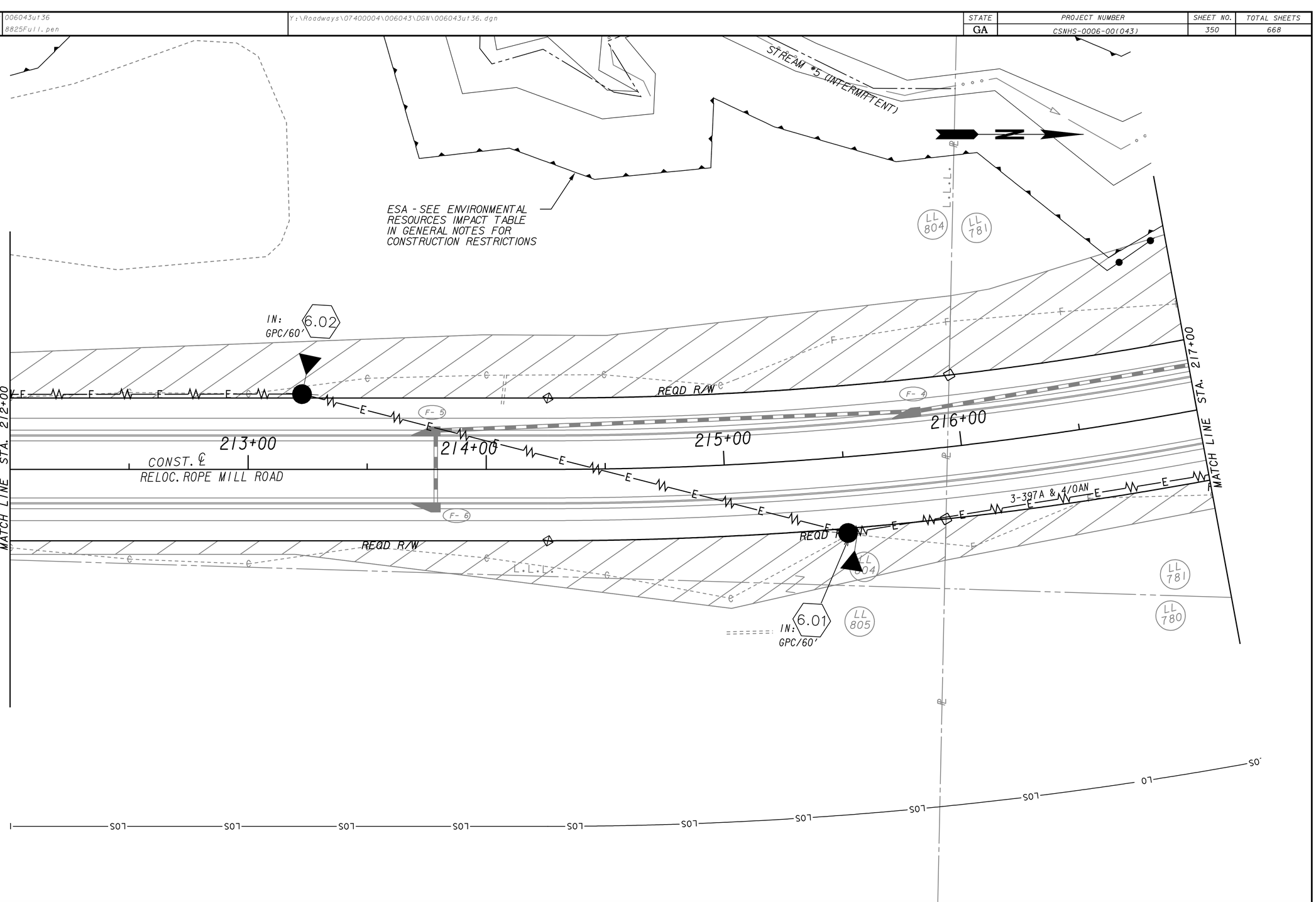
UTILITY PLANS

RELOC. ROPE MILL ROAD
STA. 206+00 TO STA. 212+00

DRAWING No. 24-035

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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UTILITY PLANS

RELOC. ROPE MILL ROAD
STA. 212+00 TO STA. 217+00

DRAWING No. 24-036

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ESA-25' STREAM BUFFER

STREAM #5 (INTERMITTENT)

STREAM #5 (PERENNIAL)

INTERMITTENT STREAM #5A

ESA-25' STREAM BUFFER

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ESA-25' STREAM BUFFER

MATCH LINE STA. 217+00

REQD R/W

218+00

219+00

220+00

221+00

REQD R/W

MATCH LINE STA. 222+00

CONST. ℄ RELOC. ROPE MILL ROAD

REQD R/W

REQD R/W

REQD R/W

REQD R/W

5.02 IN: GPC/60'

5.01 IN: GPC/60'

STREAM #5 (PERENNIAL)

3-397A & 4/0AN

L.L.L.

TEMPORARY ORANGE BARRIER FENCE

TEMPORARY ORANGE BARRIER FENCE

60" PIPE TO BE EMBEDDED AS PER THE ENVIRONMENTAL COMMITMENTS

SOT

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

NOTE:

CONSTRUCTION ACTIVITIES SHALL NOT TAKE PLACE WITHIN THE BUFFERED AREA OF STREAM #5 FROM MARCH 1ST THROUGH JUNE 15TH.

PROPERTY AND EXISTING R/W LINE
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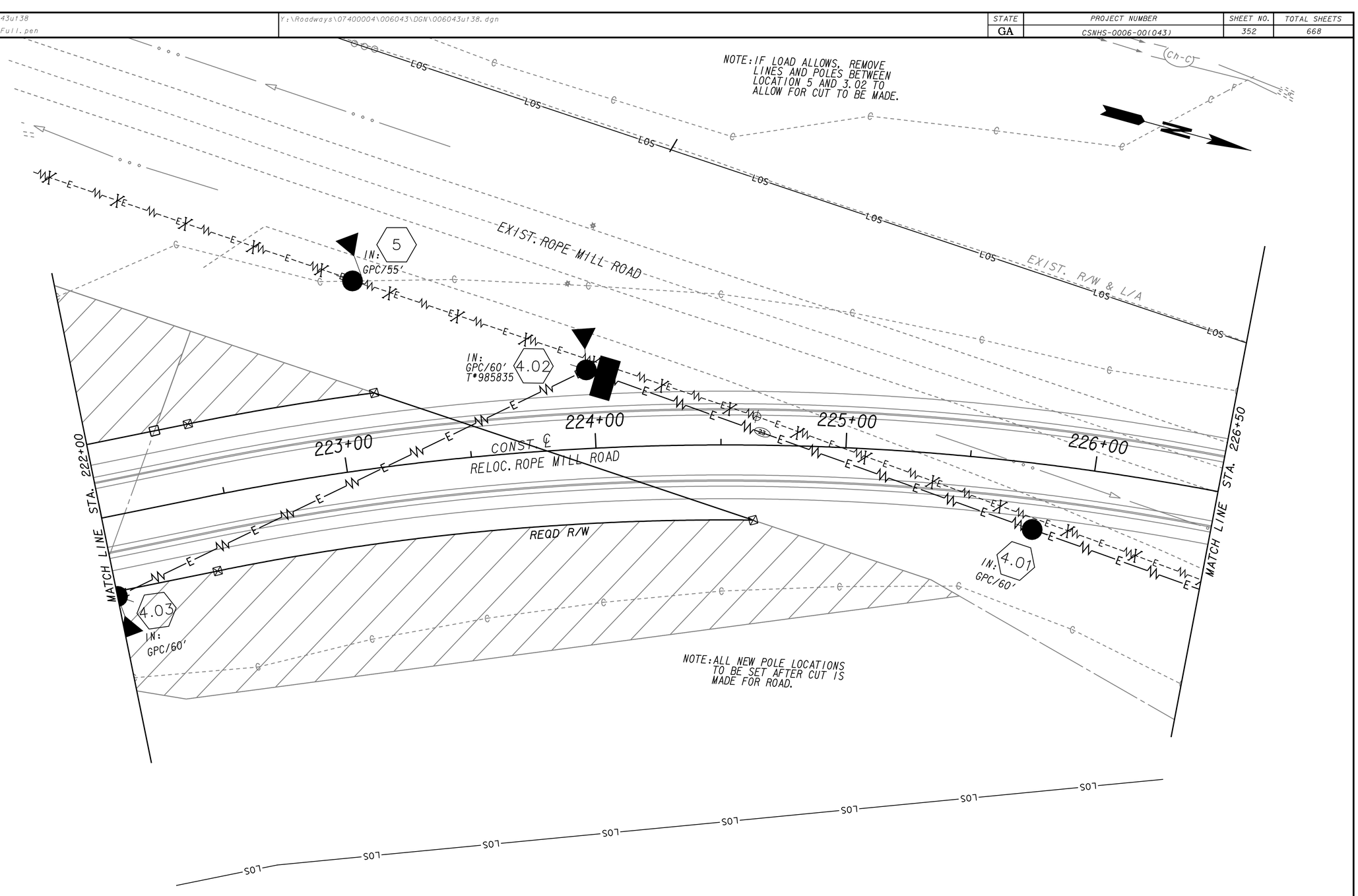
UTILITY PLANS

RELOC. ROPE MILL ROAD
STA. 217+00 TO STA. 222+00

DRAWING No. 24-037

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

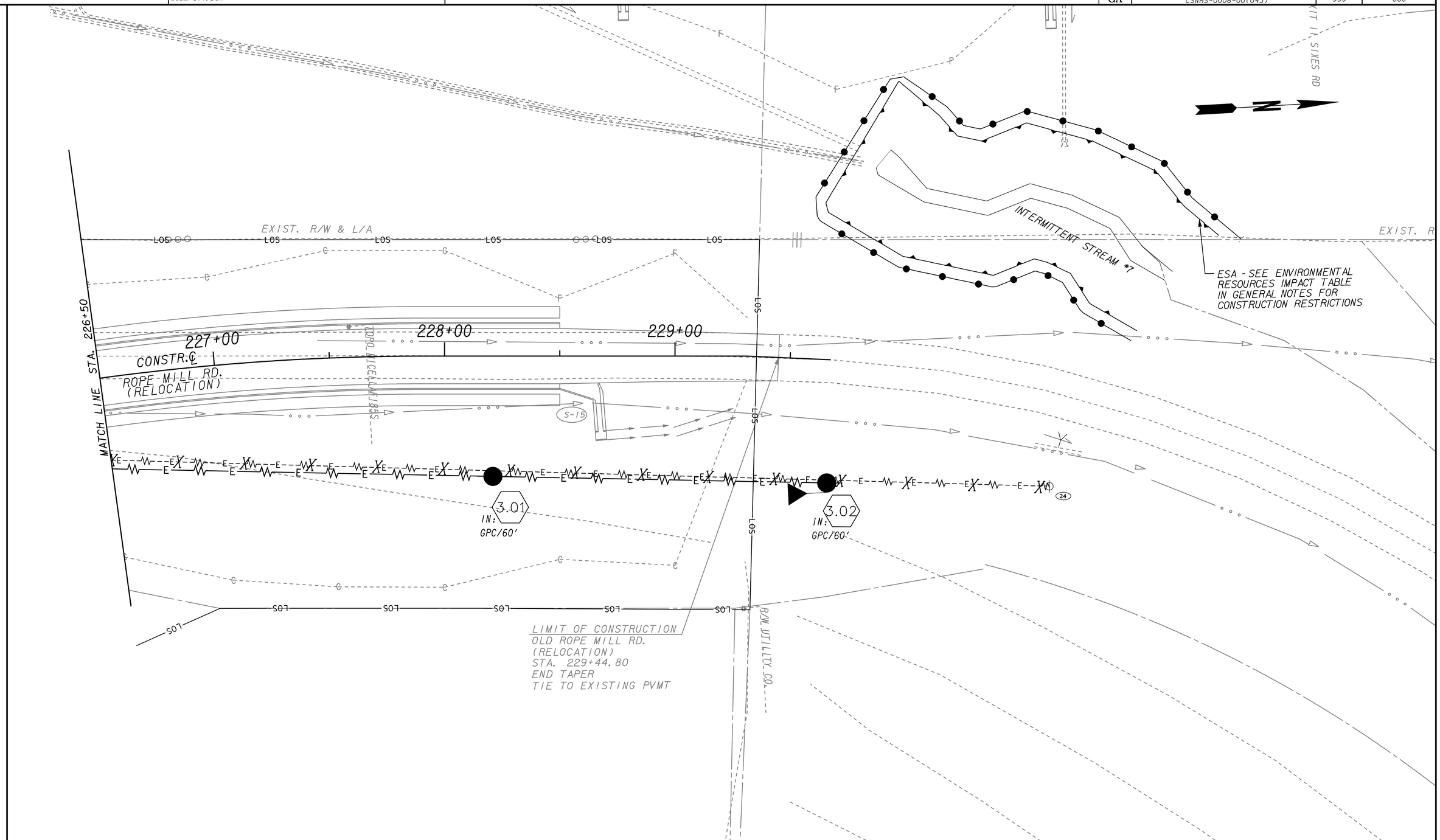
RELOC. ROPE MILL ROAD
STA. 222+00 TO STA. 226+50

DRAWING No. 24-038

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	353	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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A UNIT OF MICHAEL BAKER CORPORATION
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

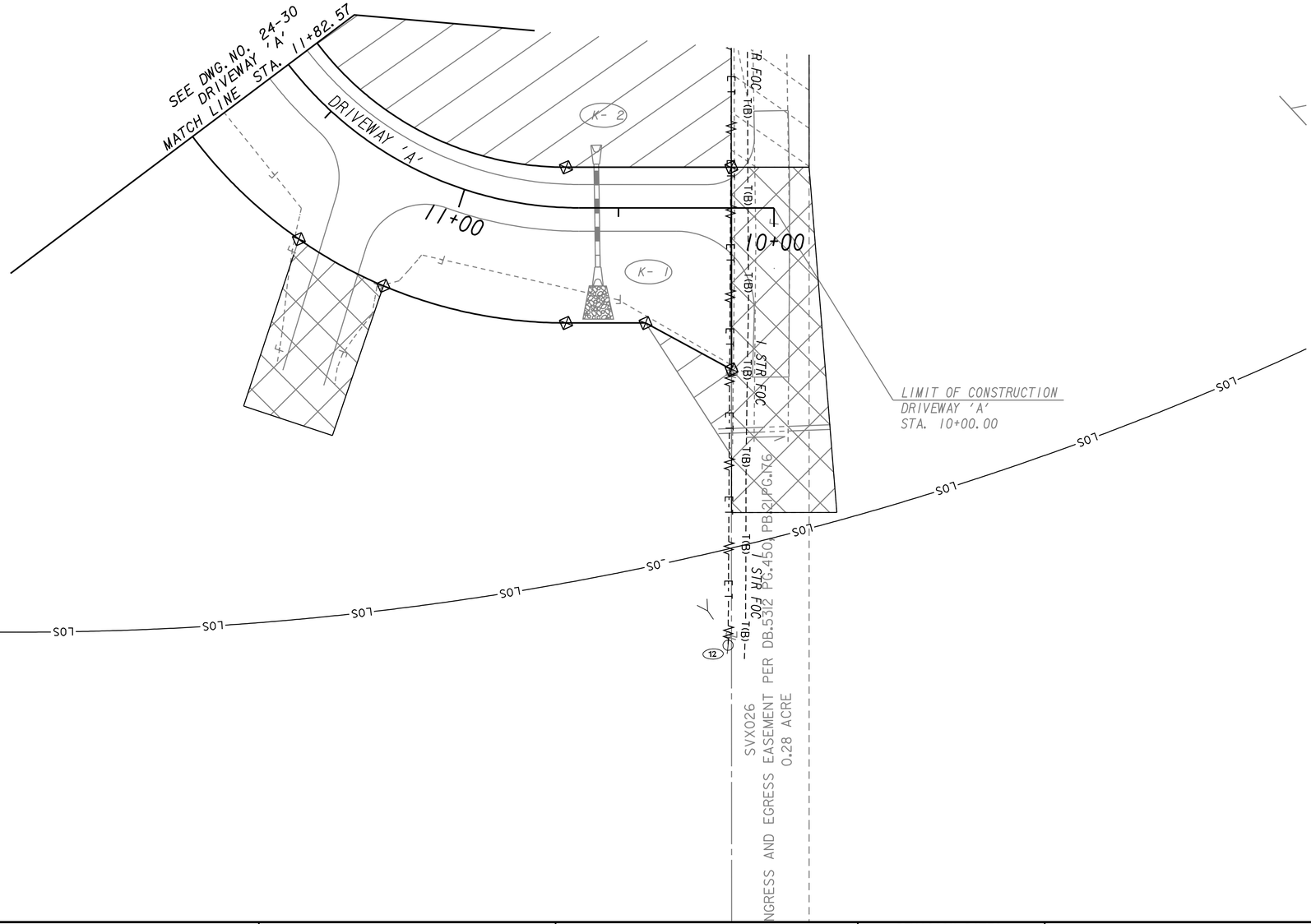
UTILITY PLANS

RELOC. ROPE MILL ROAD
STA. 226+50 TO END CONST.

DRAWING No. 24-039

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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	

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

UTILITY PLANS

DRIVEWAY 'A'
BEGIN CONS. TO STA. 11+82.57

DRAWING No. 24-040

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

BEGIN PROJECT
CSNHS-0006-00(043)
I-575 STA. 596+00.00
N=1493712.7222
E=2185922.7331

T.I.E. TO EXISTING MARKINGS
STA. 599+52

5" SOLID WHITE EDGE LINE

SOUND BARRIER

18" RCP

30"X36" OVAL RCP

I-575 S.B.

596+00 | 597+00 | 598+00 | 599+00 | 600+00

CONST. ℄
I-575

MATCH LINE STA. 601+00

I-575 N.B.

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

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

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

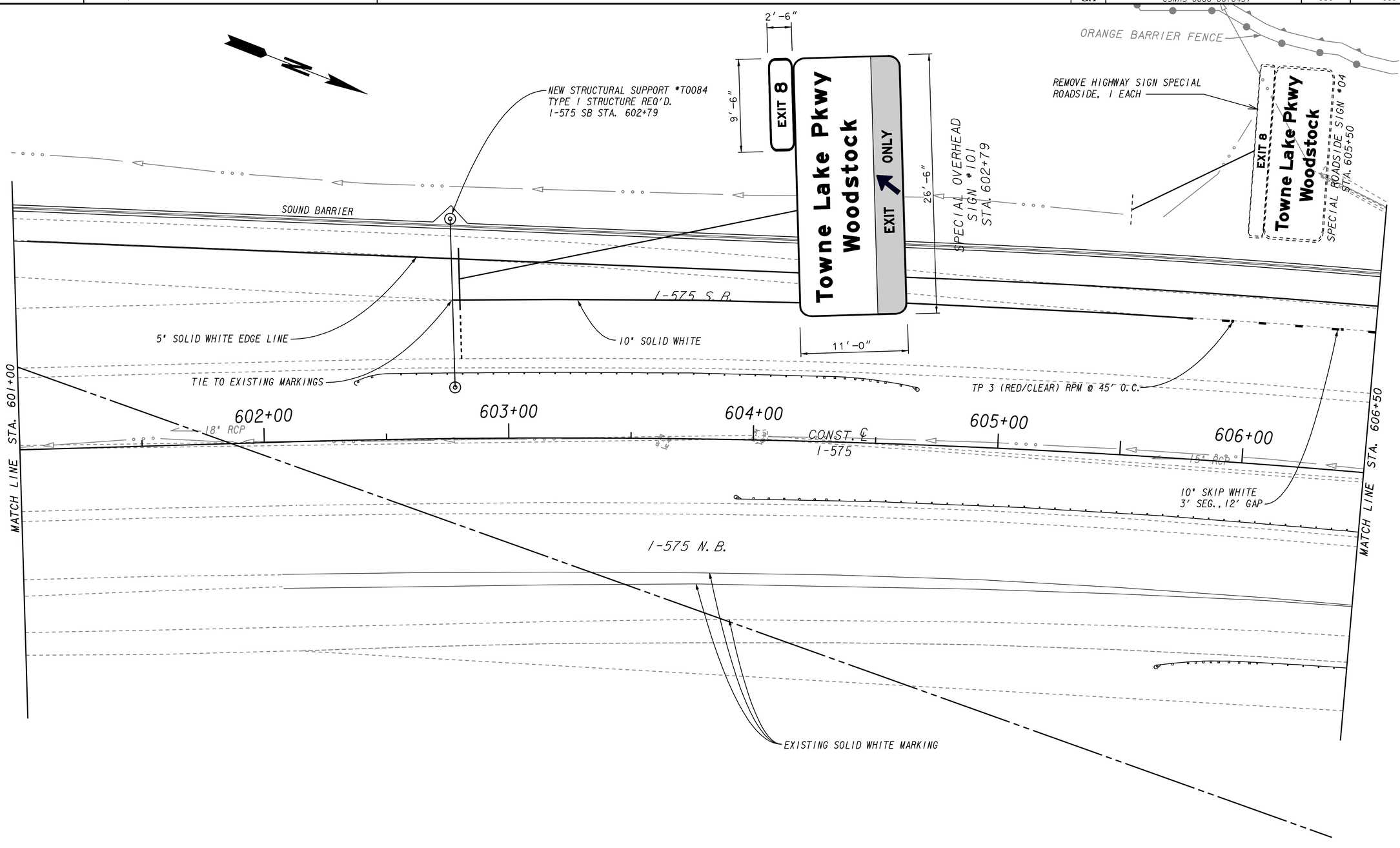
SIGNING AND MARKING PLANS

I-575 SB AUXILIARY LANE
BEGIN PROJECT TO STA. 601+00

DRAWING No. 26-001

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
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REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 SB AUXILIARY LANE
STA. 601+00 TO STA. 606+50

DRAWING No. 26-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ORANGE BARRIER FENCE

TP 3 (RED/CLEAR) RPM @ 45' O.C. (TYP)

GA. EXIST. ROADSIDE SIGN LEGEND UNKNOWN APPROX. STA. 611+00 POST MOUNT ON SIDE BARRIER

SOUND BARRIER

I-575 S.B.

5" SOLID WHITE EDGE LINE

NEW STRUCTURAL SUPPORT *S0085 TYPE I STRUCTURE REQ'D. I-575 NB STA. 607+00

MATCH LINE STA. 606+50

607+00 608+00 609+00 610+00 611+00

CONST. ℄ I-575

15" RCP

10" SKIP WHITE 3' SEG., 12' GAP

MATCH LINE STA. 612+00

EXIST MEDIAN BARRIER

I-575 N.B.

13'-0"

EXISTING SOLID WHITE MARKING

EXISTING SOLID WHITE MARKING

EXISTING SKIP WHITE MARKING

SPECIAL OVERHEAD SIGN *102 SIGN TEMPLATE II STA. 607+00

16'-0"

Ridgewalk Parkway
3/4 MILE
EXIT ONLY

EXIT 9

9'-6"

2'-6"

SPEED LIMIT 65

R2-1 (48"x60") APPROX. STA. 610+86 RETAIN IN PLACE

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
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EASEMENT FOR CONSTR OF SLOPES
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

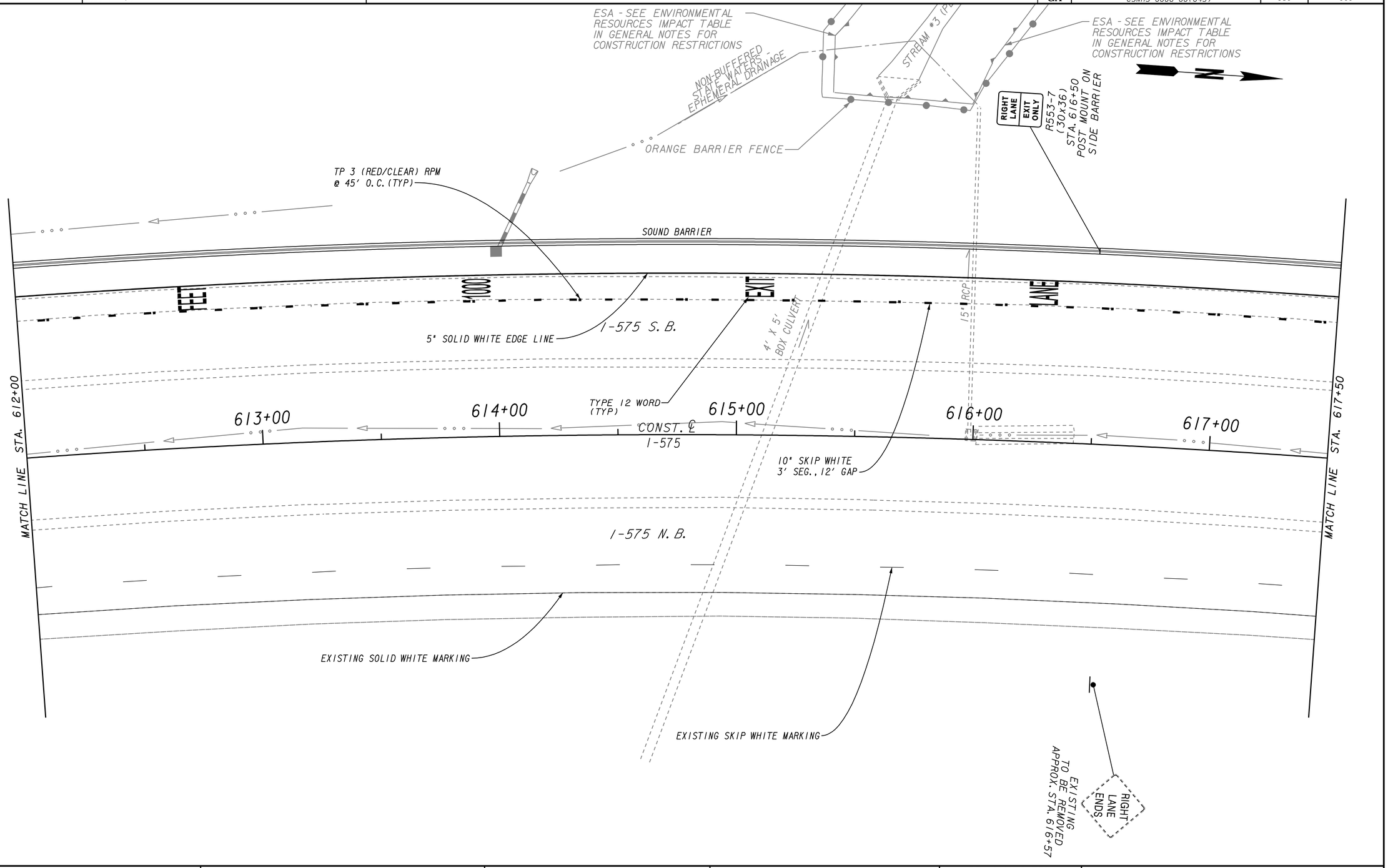
I-575 SB AUXILIARY LANE
STA. 606+50 TO STA. 612+00

DRAWING No. 26-003

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	358	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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CONSTRUCTION LIMITS
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

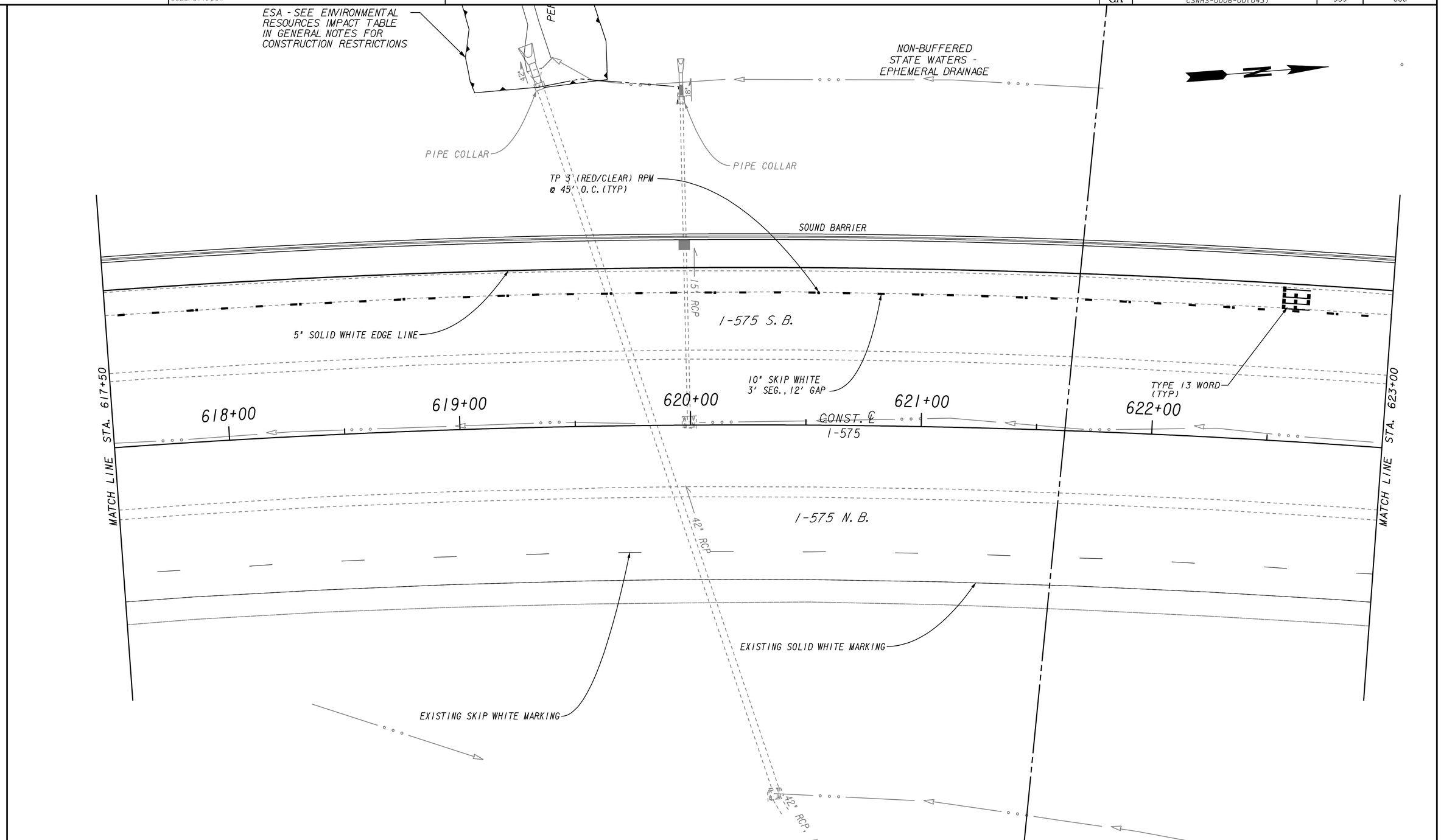
I-575 SB AUXILIARY LANE
STA. 612+00 TO STA. 617+50

DRAWING No. 26-004

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	359	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

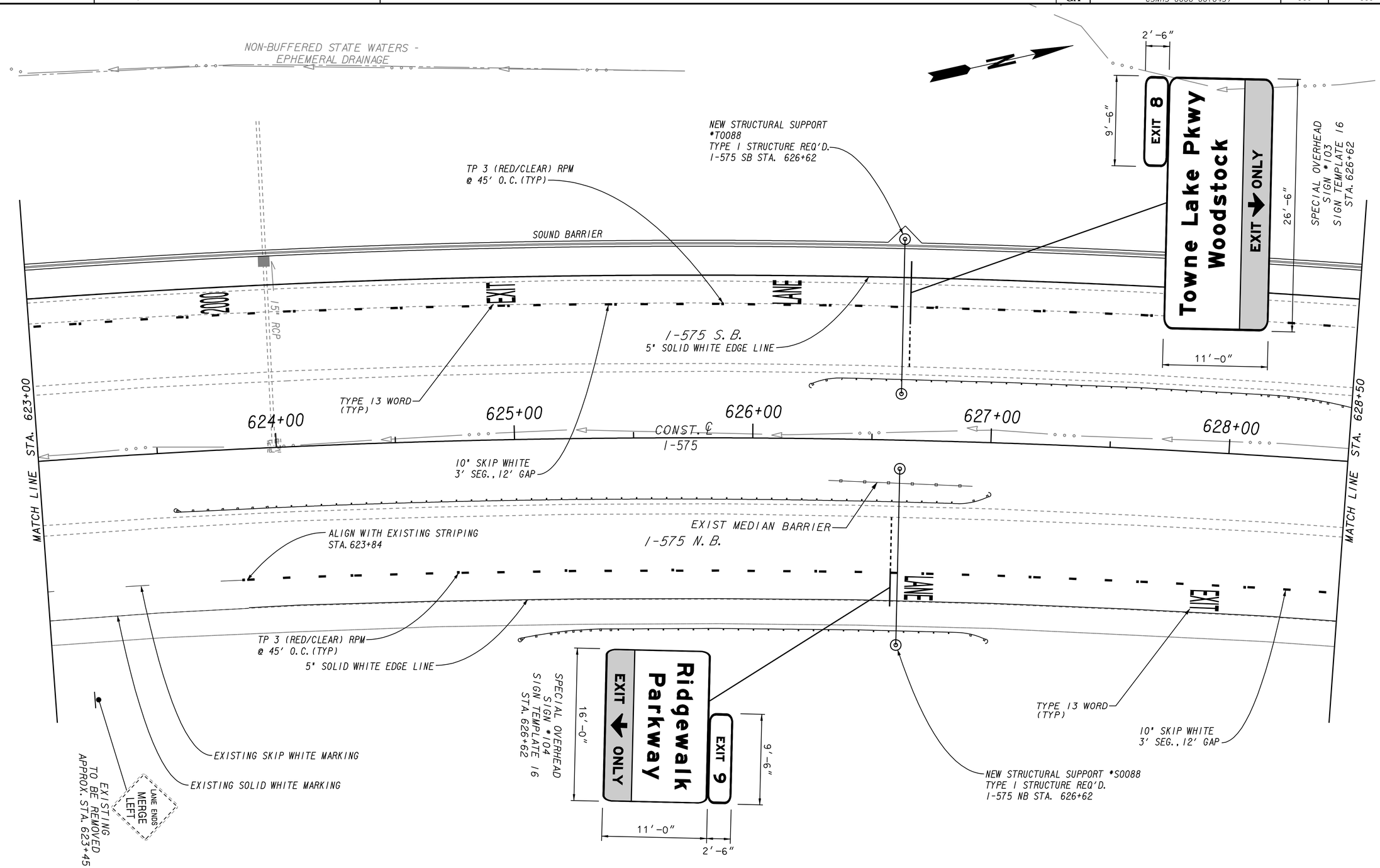
I-575 SB AUXILIARY LANE
STA. 617+50 TO STA. 623+00

DRAWING No. 26-005

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	360	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

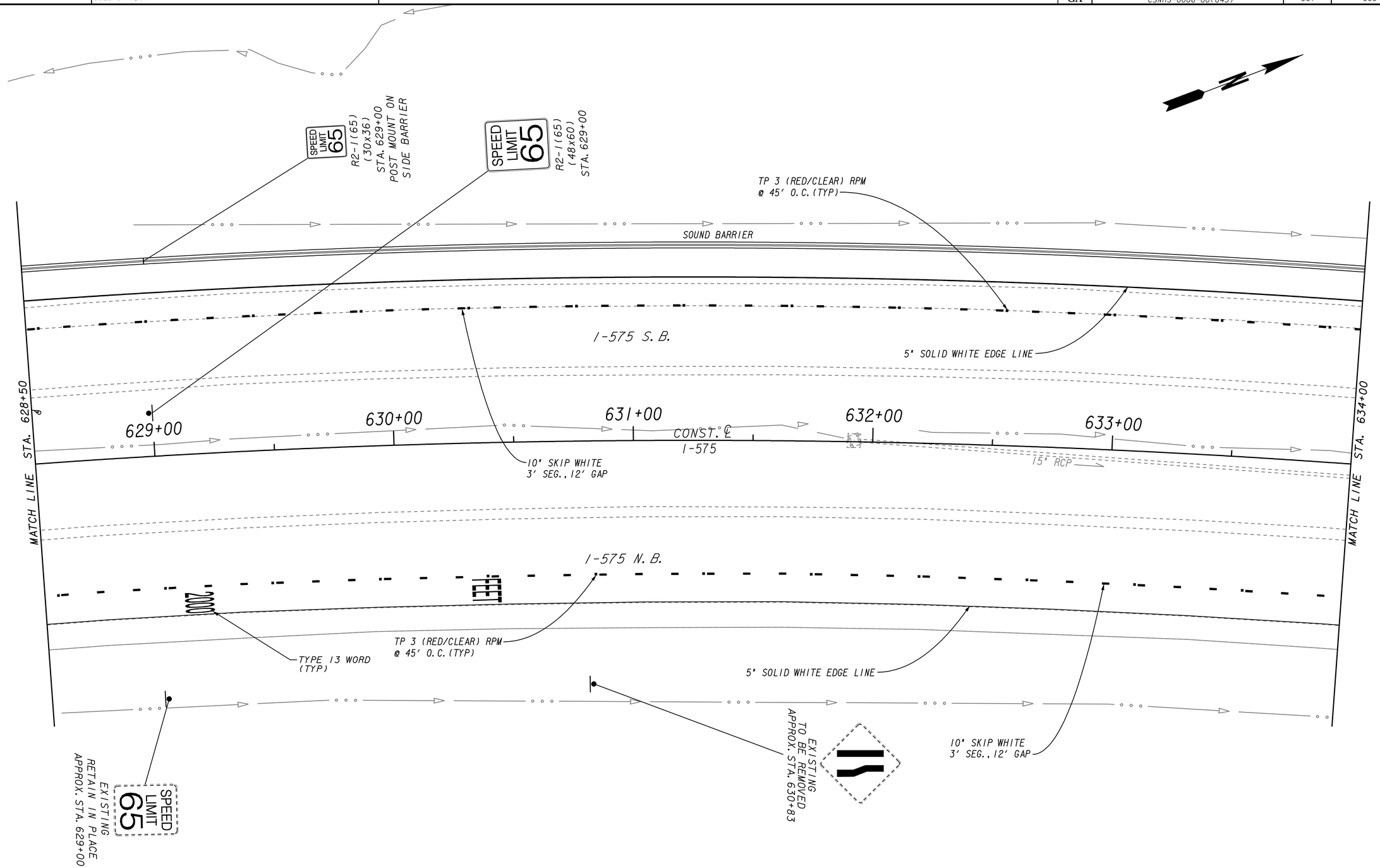
I-575 SB AUXILIARY LANE
STA. 623+00 TO STA. 628+50

DRAWING No. 26-006

1/5/2009 GPLN

06-DEC-2010 12:18	TIME$$$	006043sm07	Y:\Roadways\07400004\006043\DGN\006043sm07.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	361	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 SB AUXILIARY LANE
STA. 628+50 TO STA. 634+00

DRAWING No. 26-007

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

MB3-3 (30"x15") SOUTH INTERSTATE 575 MI-1 (30x24) STA. 634+05 POST MOUNT ON SIDE BARRIER

MB3-3 (30"x15") SOUTH INTERSTATE 575 MI-1 (45x36) STA. 634+05

10' SKIP WHITE 3' SEG., 12' GAP

TP 3 (RED/CLEAR) RPM @ 75' O.C. (TYP)

D10-1 (10'x18') STA. 638+50

MILE 9

5' SOLID WHITE EDGE LINE

SOUND BARRIER

MATCH LINE STA. 634+00

MATCH LINE STA. 639+50

I-575 S.B.

635+00 636+00 637+00 638+00 639+00

CONST. ℄ I-575

15" RCP

15" RCP

I-575 N.B.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

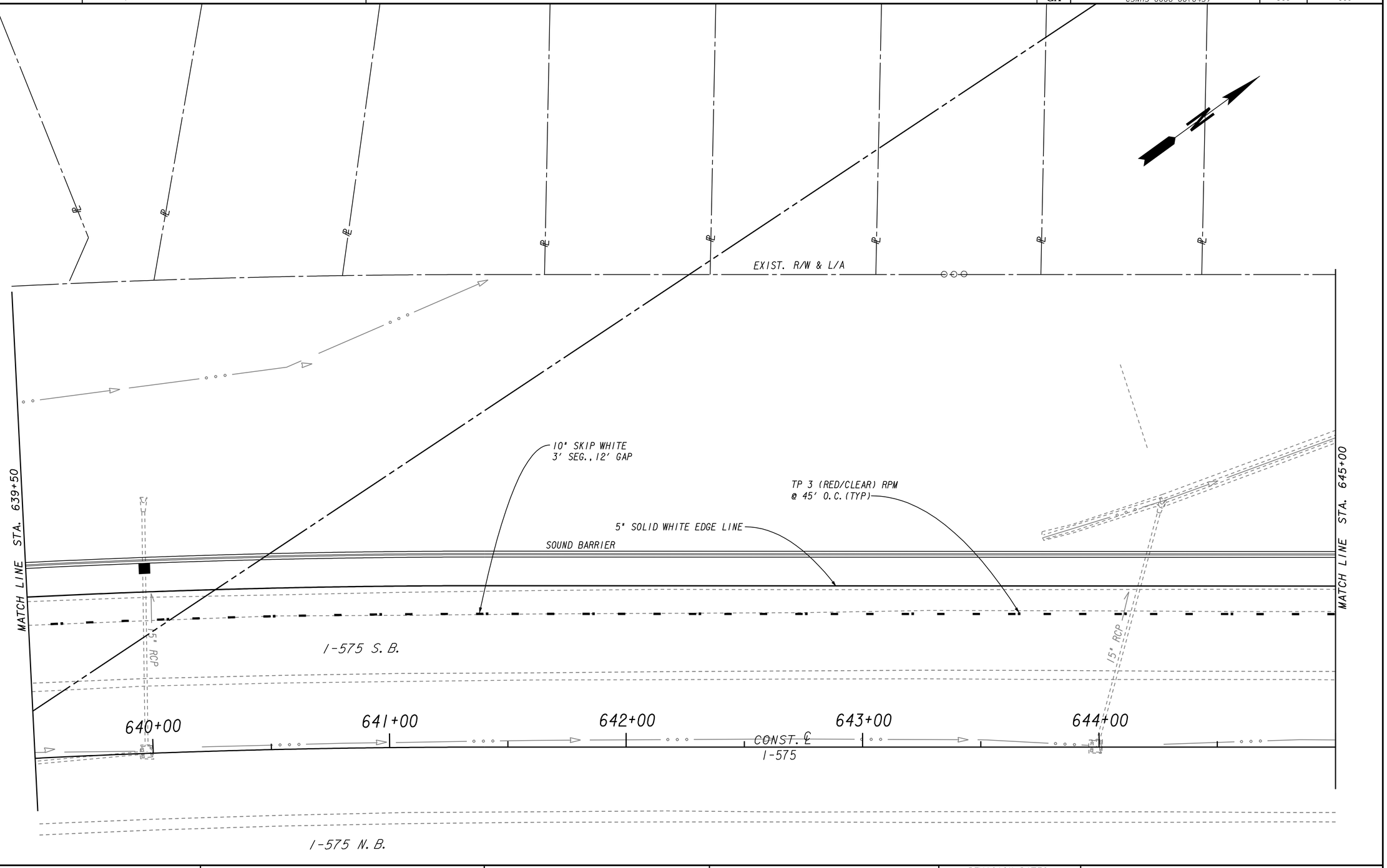
I-575 SB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 26-008

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	363	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 SB AUXILIARY LANE
STA. 639+50 TO STA. 645+00

DRAWING No. 26-009

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

2'-6"
9'-6"
EXIT 8
Towne Lake Pkwy
Woodstock
3/4 MILE
EXIT ONLY
26'-6"
13'-0"
SPECIAL OVERHEAD SIGN *105
SIGN TEMPLATE II
STA. 646+50

REMOVE HIGHWAY SIGN SPECIAL ROADSIDE, *1 EACH

EXIT 8
Towne Lake Pkwy
Woodstock
EXIT 1 MILE
SPECIAL ROADSIDE SIGN *05
STA. 648+08

STREAM *4 (PERENNIAL)

EXIST. R/W & L

NEW STRUCTURAL SUPPORT
*T0093
TYPE I STRUCTURE REQ'D.
I-575 SB STA. 646+50

NON-BUFFERED STATE WATERS - CONCRETE FLUME

INTERMITTENT STREAM *4A

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

NON-BUFFERED STATE WATERS - CONCRETE FLUME

5" SKIP WHITE
10', SEG., 30' GAP

5" SOLID WHITE EDGE LINE

TP 3 (RED/CLEAR) RPM
@ 45' O.C. (TYP)

10" SOLID WHITE

SOUND BARRIER

MATCH LINE STA. 645+00

MATCH LINE STA. 700+50

700+00

I-575 S.B.

15" RCP

30" RCP

36" RCP

646+00 | 647+00 | 648+00 | 649+00 | 650+00

CONST. ℄ I-575

EXIST MEDIAN BARRIER

I-575 N.B.

PROPERTY AND EXISTING R/W LINE
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OFFICE: INNOVATIVE PROGRAM DELIVERY

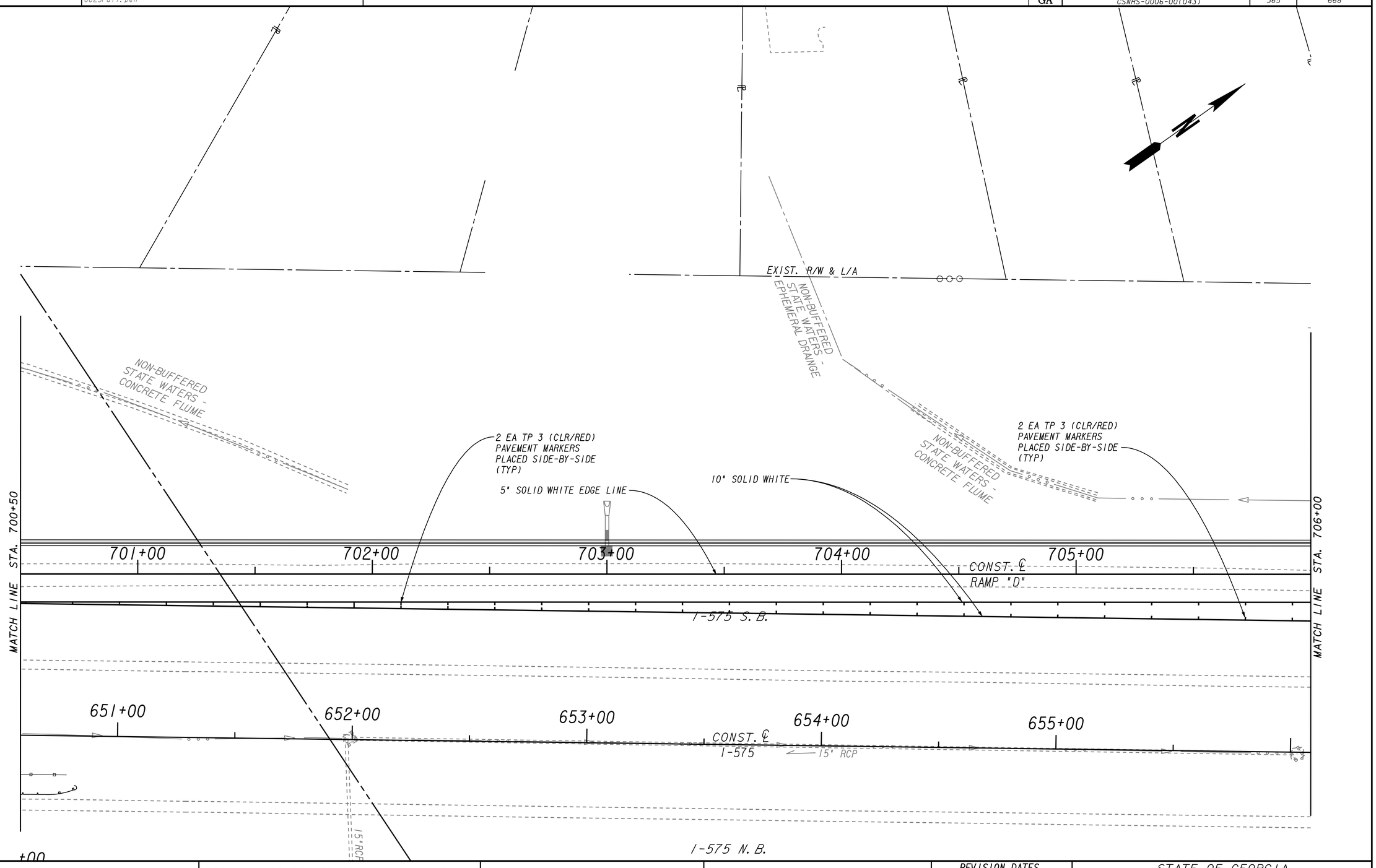
SIGNING AND MARKING PLANS

I-575 SB AUXILIARY LANE
I-575 STA. 645+00 TO
SB ENTR. RAMP D STA. 700+50

DRAWING No. 26-010

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

BEGIN LIMIT OF ACCESS	BLA
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REVISION DATES

STATE OF GEORGIA
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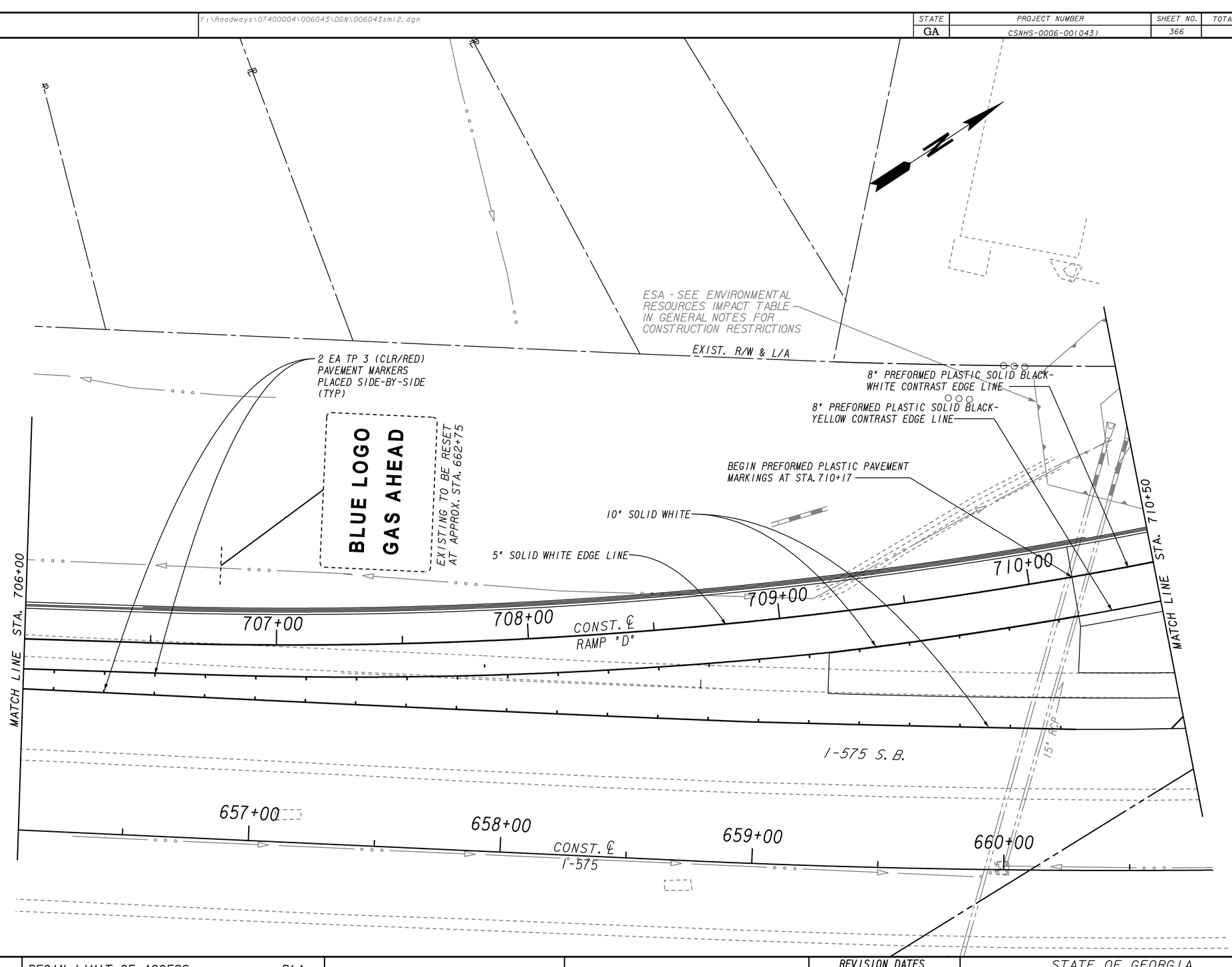
SIGNING AND MARKING PLANS

I-575 SB AUXILIARY LANE
STA. 700+50 TO STA. 706+00

DRAWING No. 26-011

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 SB ENTRANCE RAMP D
STA. 706+00 TO STA. 710+50

DRAWING No. 26-012

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

15" CMP

INTERMITTENT STREAM #4B

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

N

REQD R/W & L/A

TYPE 3 SPILLWAY

ORANGE BARRIER FENCE

EXIST. R/W & L/A

INTERMITTENT STREAM #4C

MATCH LINE STA. 710+50

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST EDGE LINE

711+00

712+00

CONST. ℄ RAMP "D"

713+00

714+00

MATCH LINE STA. 715+00

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

RESET BLUE LOGO GAS SIGN STA. 662+75 RELOCATED FROM APPROX. STA. 656+84

W4-3R (48x48) STA. 665+29

EXISTING TO BE REMOVED APPROX. STA. 662+50

2600 SY PAVEMENT MARKING DETAIL TYPE "D" WHITE

661+00

662+00

663+00

664+00

665+00

I-575 S.B.

24" RCP

CONST. ℄ I-575

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
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REVISION DATES

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OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

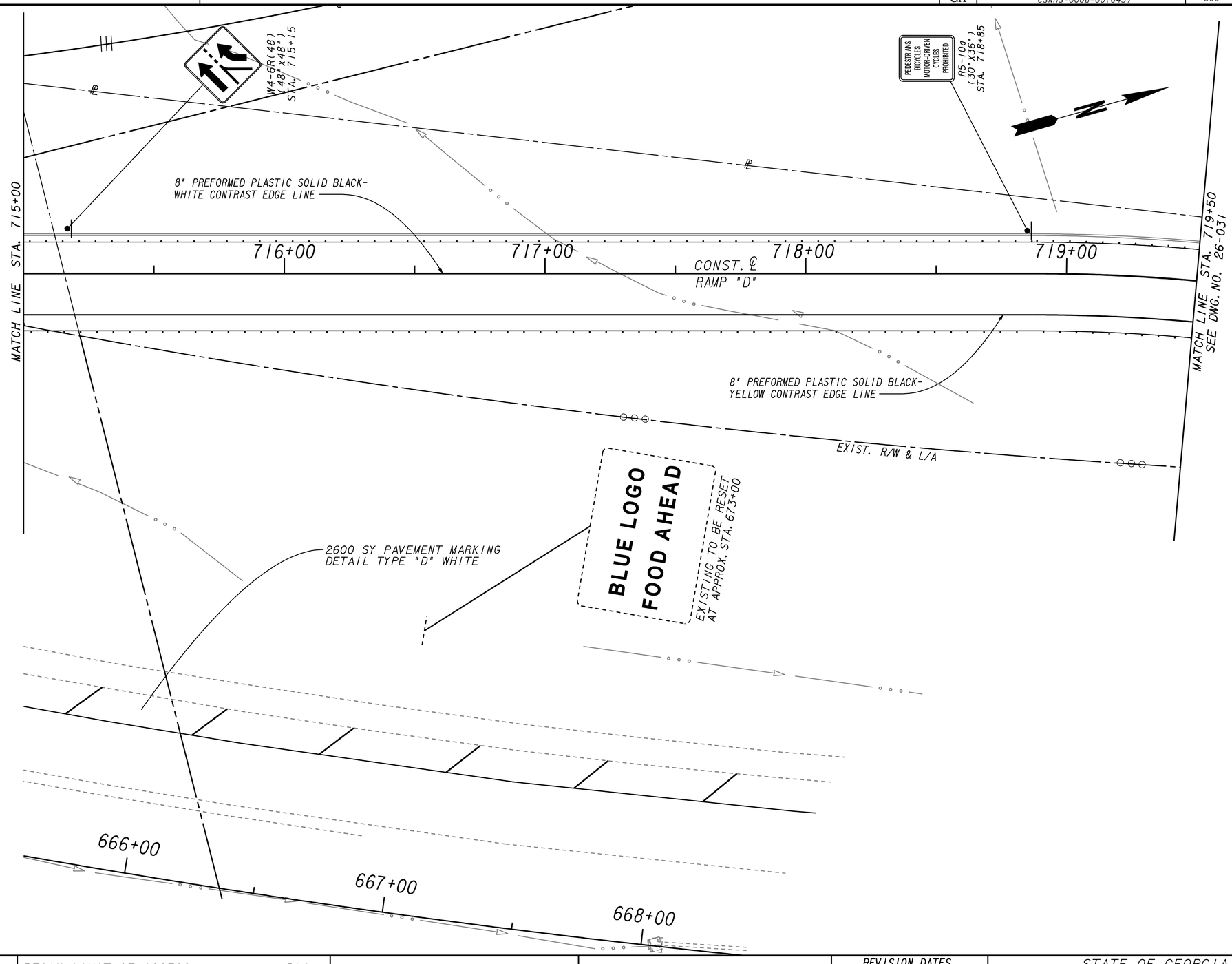
I-575 SB ENTRANCE RAMP D
STA. 710+50 TO STA. 715+00

DRAWING No. 26-013

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	368	668

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

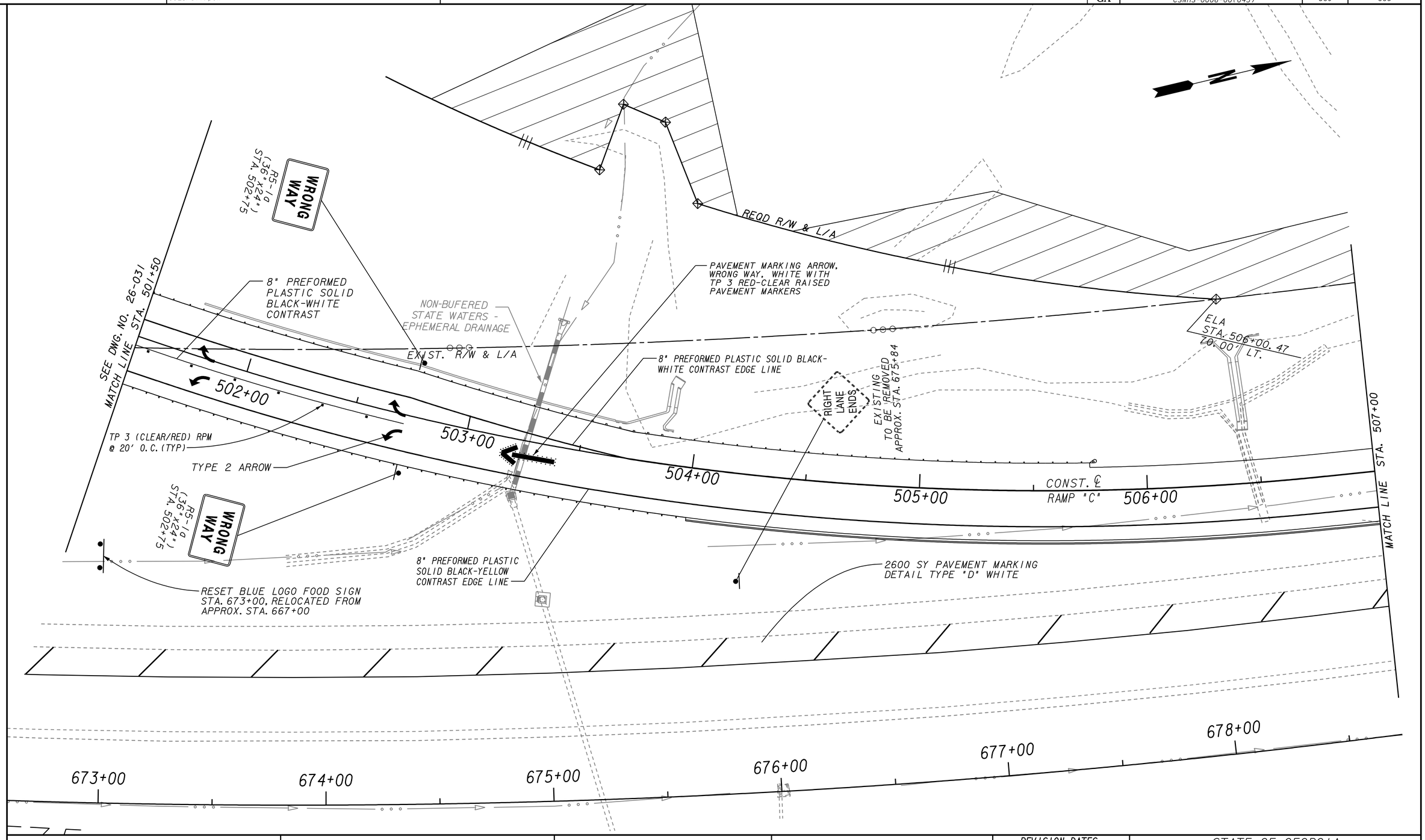
SIGNING AND MARKING PLANS

I-575 SB ENTRANCE RAMP D
STA. 709+00 TO STA. 713+50

DRAWING No. 26-014

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

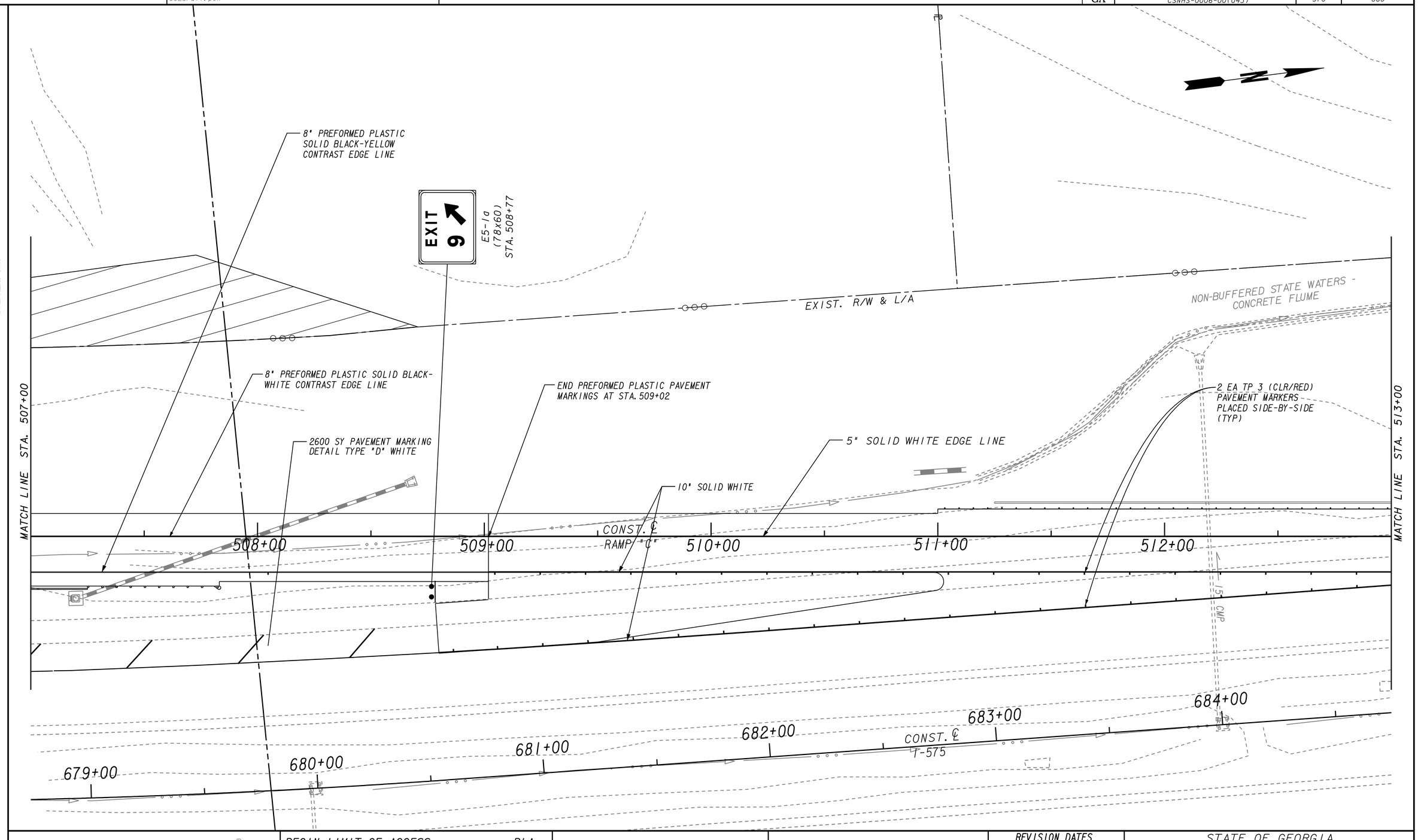
I-575 SB EXIT RAMP C
STA. 501+50 TO STA. 507+00

DRAWING No. 26-015

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	370	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 SB EXIT RAMP C
STA. 507+00 TO STA. 513+00

DRAWING No. 26-016

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	371	668

RELEASED FOR CONSTRUCTION 12/02/10

SPECIAL ROADSIDE SIGN WITH BREAK-AWAY POSTS. FOR ERECTION AND FOUNDATION DETAILS REFER TO GEORGIA STANDARDS 9045A, 9045B, AND 9045C.

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

2'-6"
9'-6"
EXIT 9
Ridgewalk Parkway
16'-6"
6'-0"
SPECIAL ROADSIDE SIGN #01
SIGN TEMPLATE 51
STA. 685+63

EXIST. R/W & L/A

INTERMITTENT STREAM #7

NON-BUFFERED STATE WATERS - CONCRETE FLUME

ORANGE BARRIER FENCE

30" RCP

2 EA TP 3 (CLR/RED) PAVEMENT MARKERS PLACED SIDE-BY-SIDE (TYP)

5" SOLID WHITE EDGE LINE

10" SOLID WHITE

5" SKIP WHITE 2'SEG.,6'GAP

END RAMP "C" STA. 516+03.74

MATCH LINE STA. 513+00

514+00 CONST. ℄ RAMP "C" 515+00 516+00

I-575 S.B.

685+00 686+00 687+00 CONST. ℄ I-575 688+00 689+00 690+00

18" RCP

I-575 N.B.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 SB EXIT RAMP C
STA. 513+00 TO END CONST.

DRAWING No. 26-017

1/5/2009 GPLN

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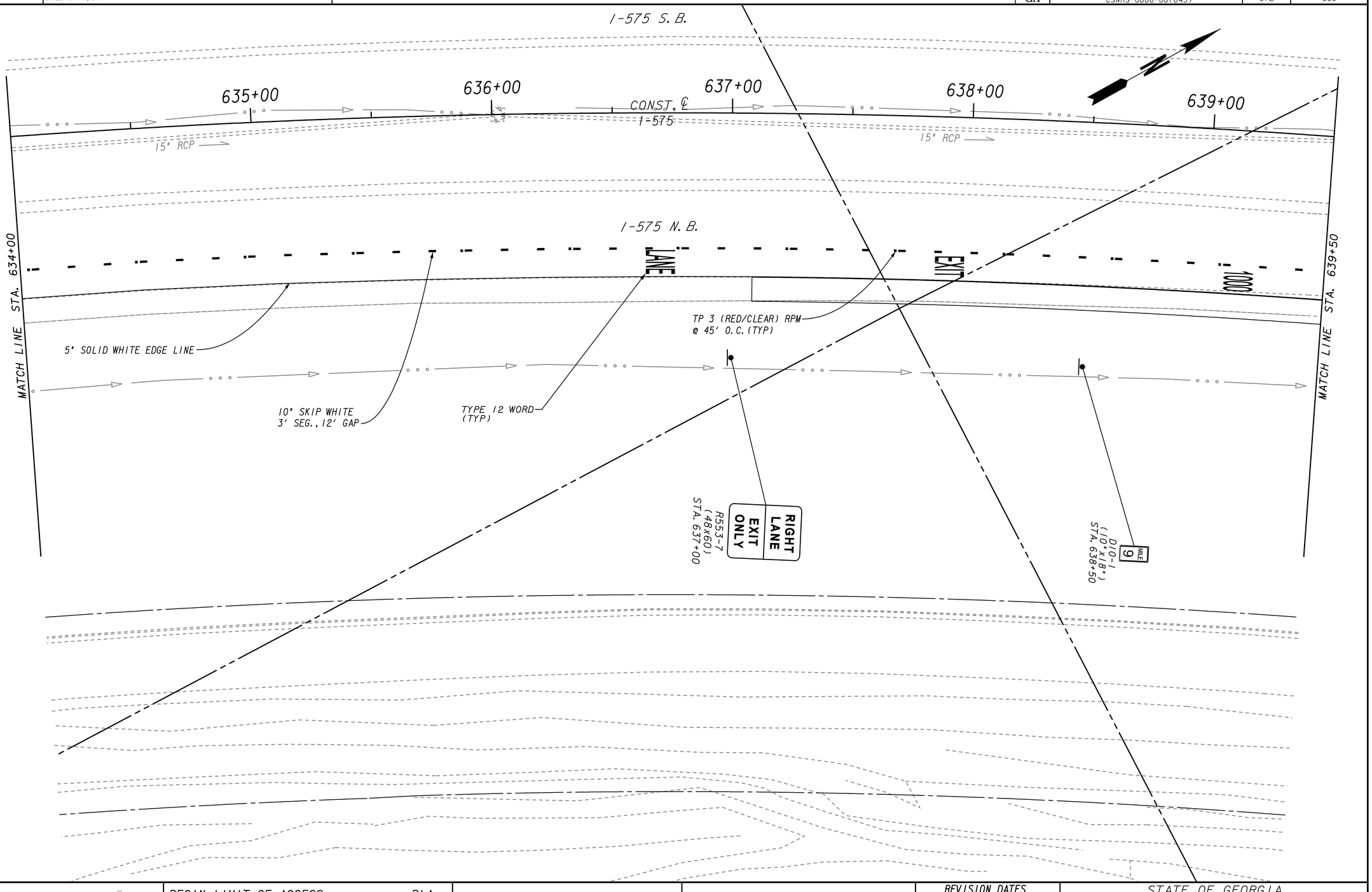
JParks | 8825Full.pen

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	372	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

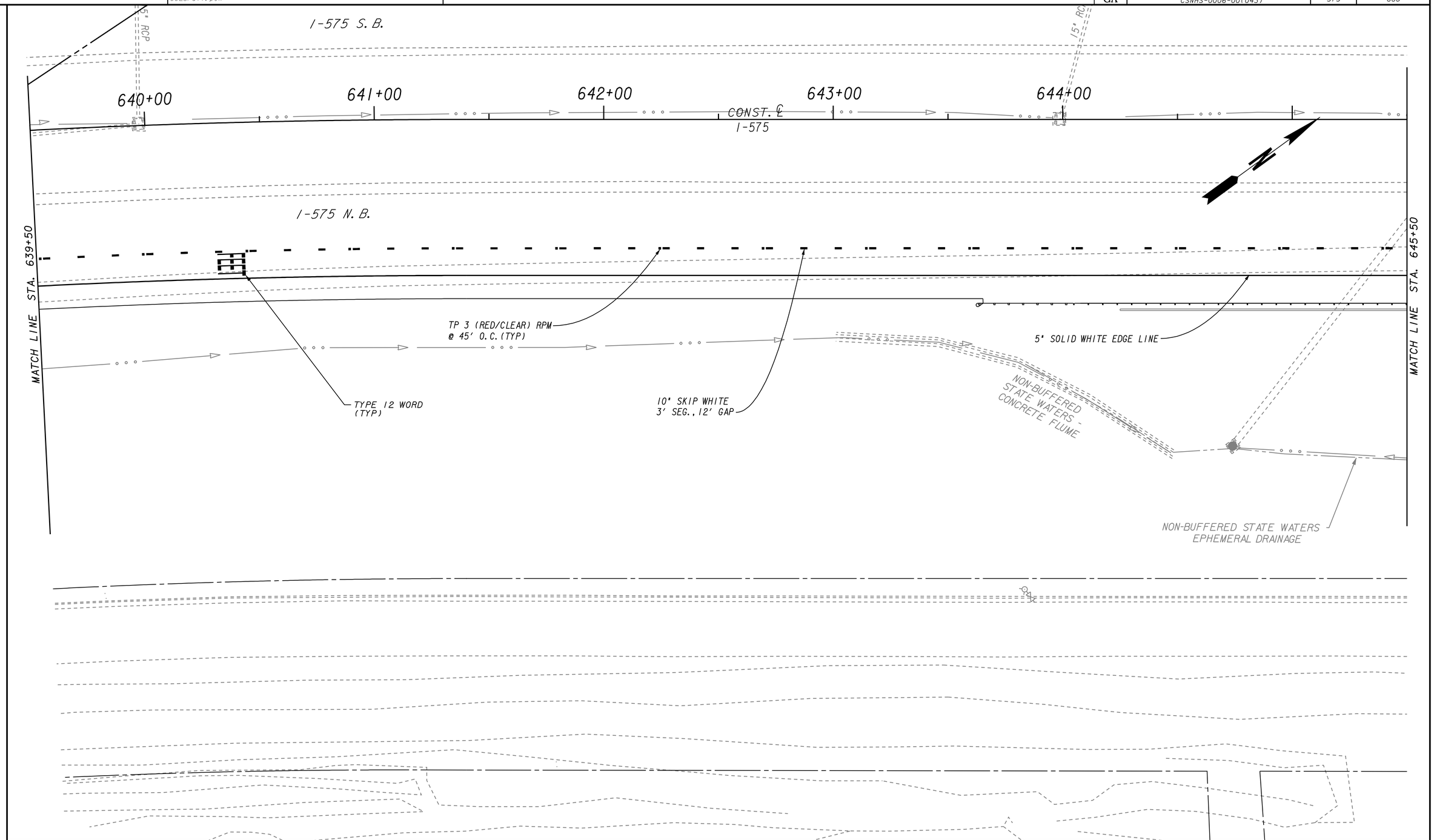
I-575 NB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 26-018

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	373	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

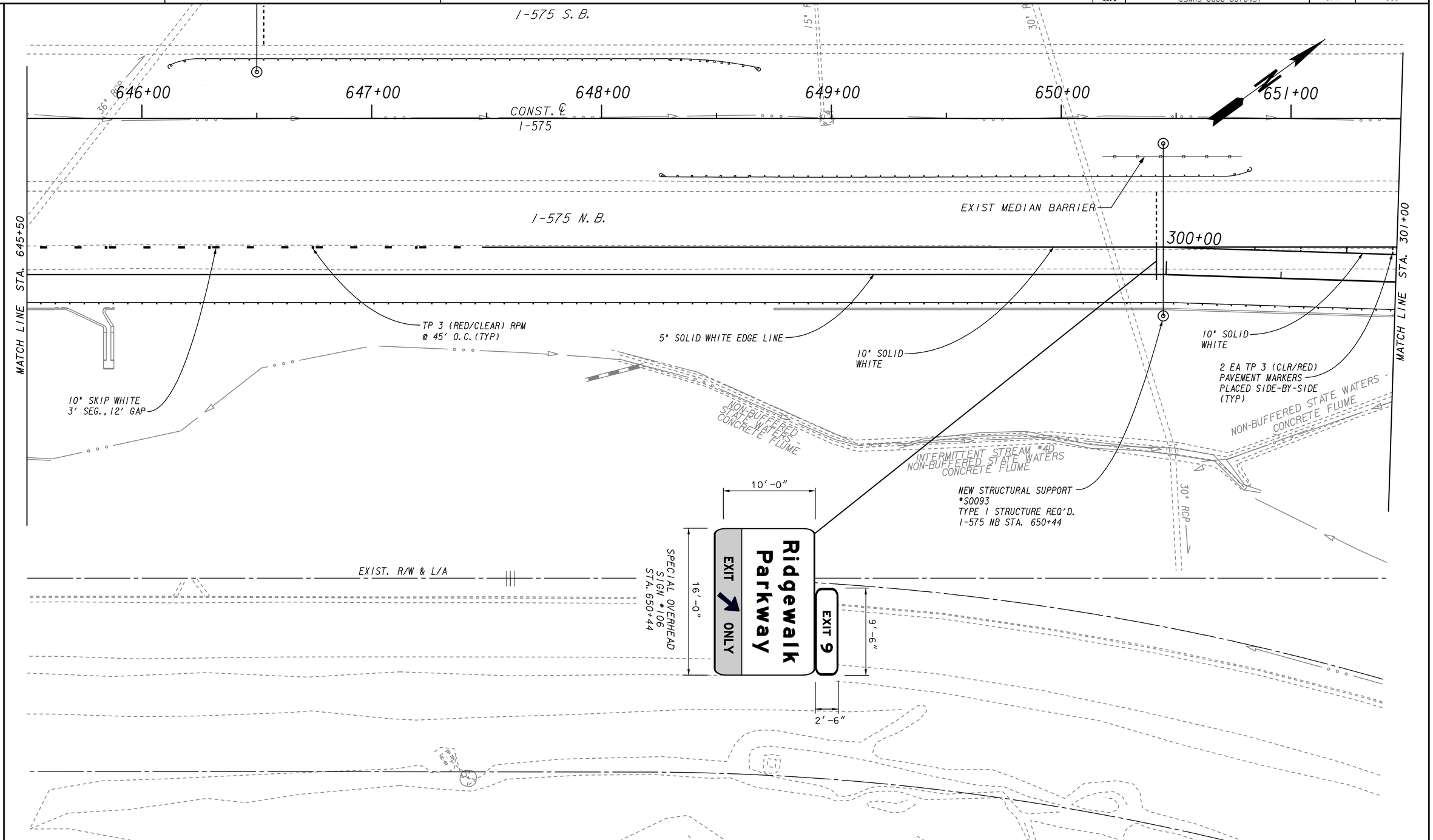
I-575 NB AUXILIARY LANE
STA. 639+50 TO STA. 645+50

DRAWING No. 26-019

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	374	668

RELEASED FOR CONSTRUCTION 12/02/10



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	

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 NB AUXILIARY LANE
I-575 STA. 645+50 TO
NB EXIT RAMP A STA. 301+00

DRAWING No. 26-020

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

652+00 653+00 654+00 655+00 657+00

CONST. ℄ I-575

15" RCP

I-575 N. B.

15" RCP

MATCH LINE STA. 301+00

302+00 303+00 304+00 305+00 306+00

CONST. ℄ RAMP "A"

MATCH LINE STA. 307+00

5" SOLID WHITE EDGE LINE

2 EA TP 3 (CLR/RED) PAVEMENT MARKERS PLACED SIDE-BY-SIDE (TYP)

10" SOLID WHITE

EXIST. R/W & L/A

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	

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

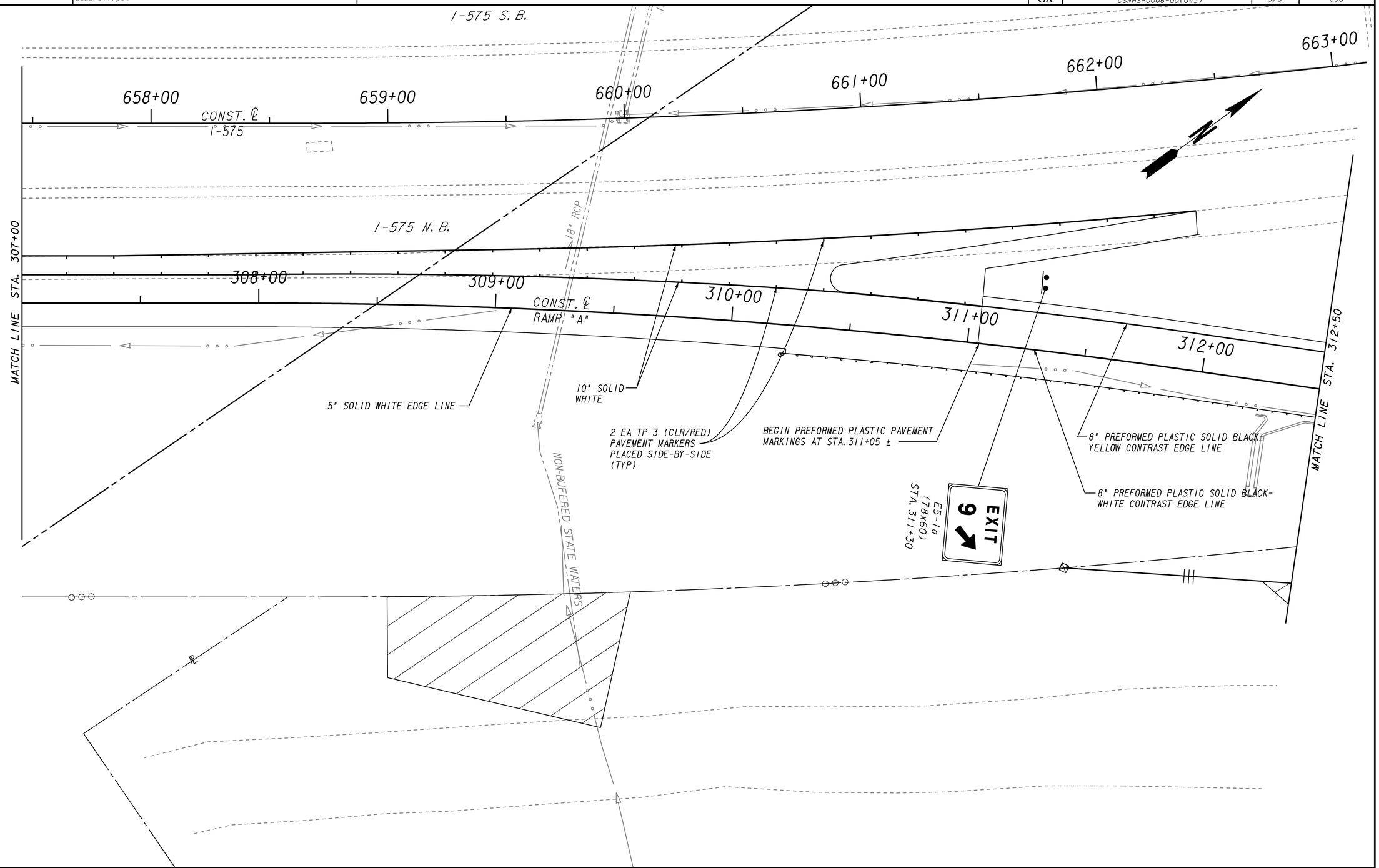
SIGNING AND MARKING PLANS

I-575 NB AUXILIARY LANE
STA. 301+00 TO STA. 307+00

DRAWING No. 26-021

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 NB AUXILIARY LANE
STA. 307+00 TO STA. 312+50

DRAWING No. 26-022

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

664+00 CONST. ℄ I-575

RCP

PREFORMED PLASTIC PAVEMENT MARKING ARROW, WRONG WAY, WHITE WITH TP 3 RED-CLEAR RAISED PAVEMENT MARKERS

WRONG WAY

R5-1a (36"x24") STA. 317+00

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

TP 3 (CLEAR/RED) RPM @ 20' O.C.(TYP)

MATCH LINE STA. 312+50

314+00 315+00 316+00 317+00

CONST. ℄ RAMP "A"

MATCH LINE STA. 318+00 SEE DWGNO 26-32

NON-BUFERED STATE WATERS - EPHEMERAL DRAINAGE

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST EDGE LINE

TYPE 2 PREFORMED PLASTIC PAVEMENT ARROW (TYP)

REQD R/W & L/A

REQ.

WRONG WAY

R5-1a (36"x24") STA. 317+00

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

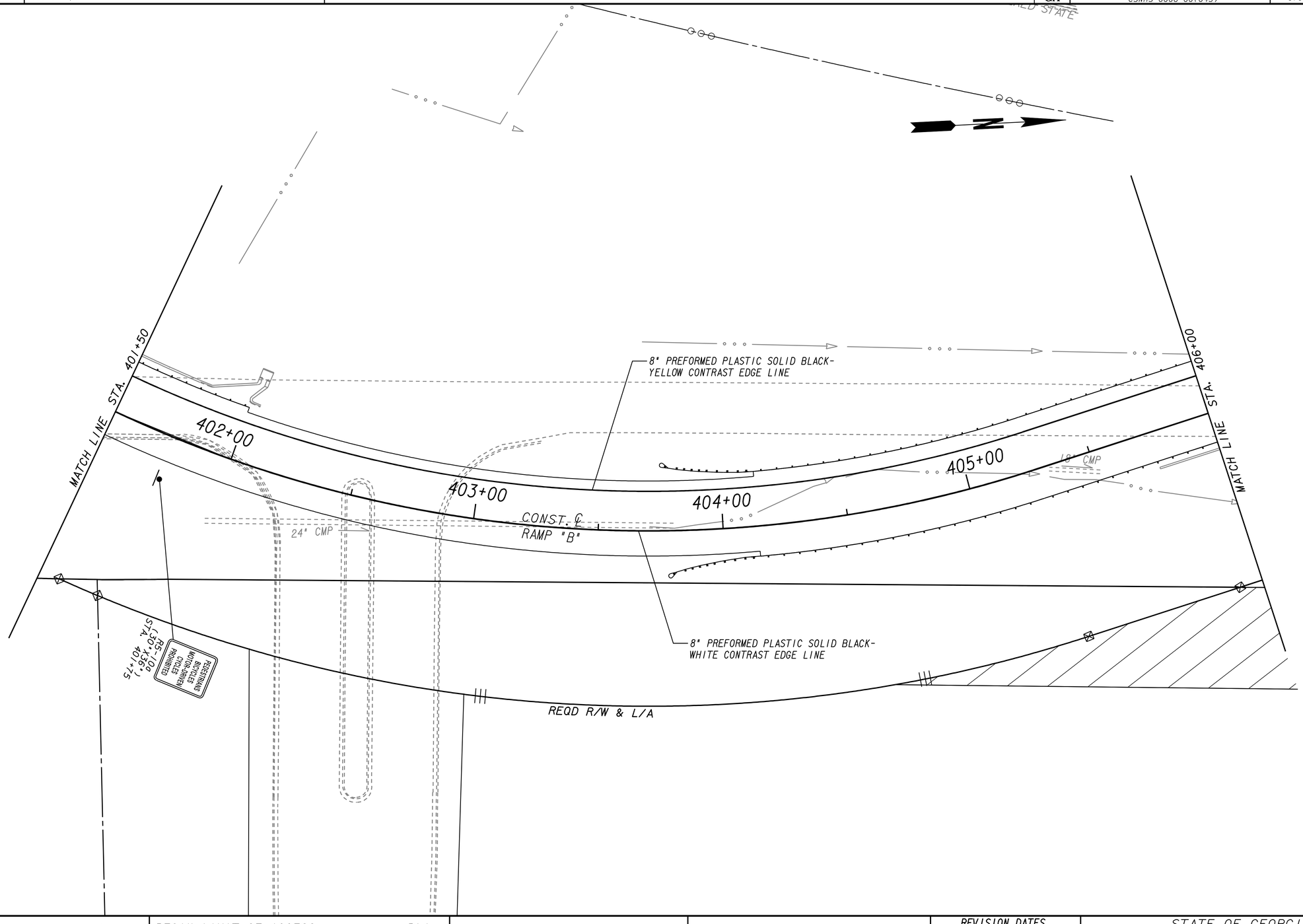
SIGNING AND MARKING PLANS

I-575 NB EXIT RAMP A
STA. 312+50 TO STA. 318+00

DRAWING No. 26-023

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

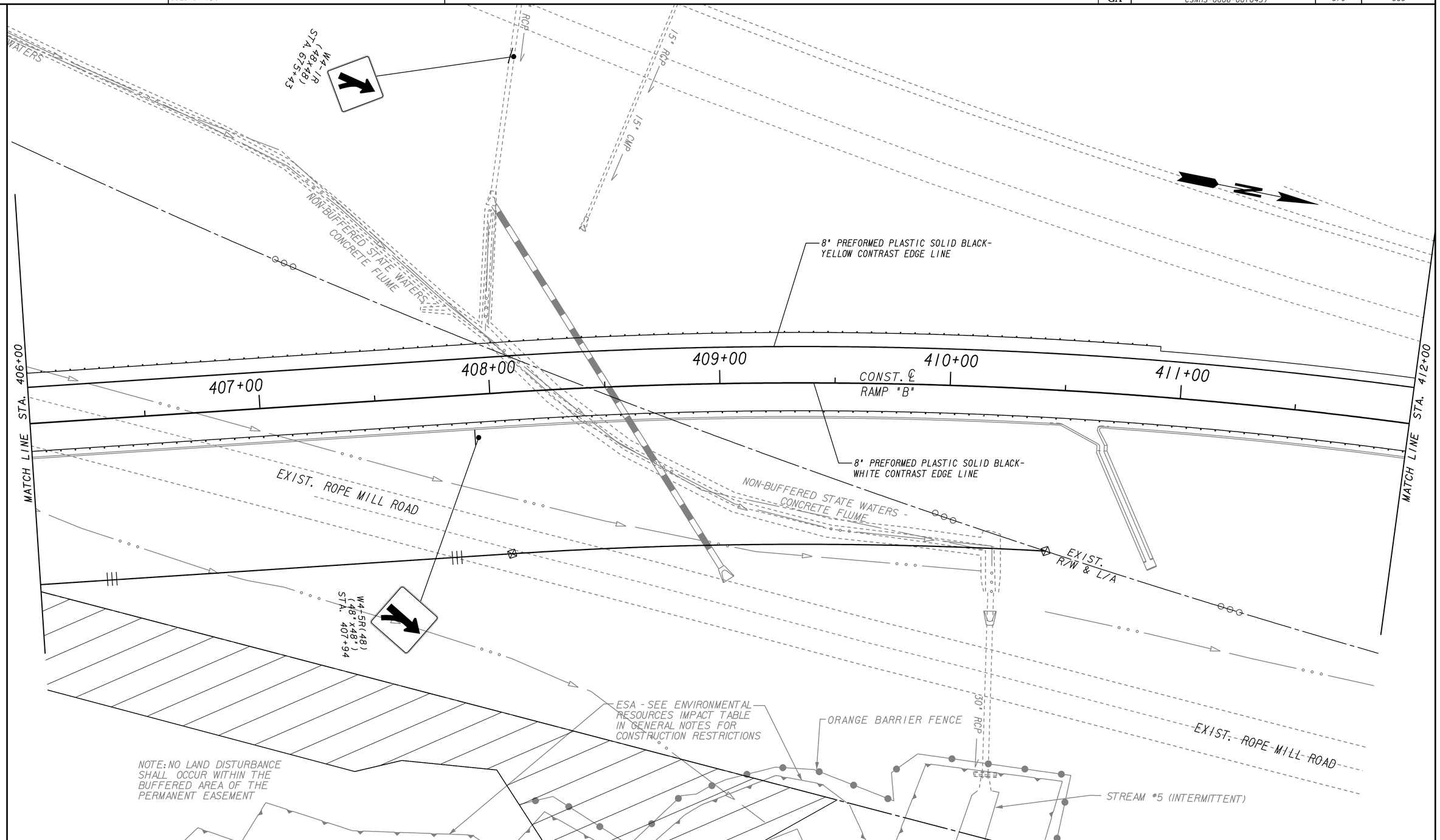
SIGNING AND MARKING PLANS

I-575 NB ENTRANCE RAMP B
STA. 401+50 TO STA. 406+00

DRAWING No. 26-024

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 NB ENTRANCE RAMP B
STA. 406+00 TO STA. 412+00

DRAWING No. 26-025

1/5/2009 GPLN

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	380	668

RELEASED FOR CONSTRUCTION 12/02/10

680+00 681+00 682+00 683+00 684+00 685+00

CONST. ℄ I-575

MATCH LINE STA. 412+00

MATCH LINE STA. 418+00

413+00 414+00 415+00 416+00 417+00

CONST. ℄ RAMP "B"

15" RCP

15" CMP

10" SOLID WHITE PREFORMED PLASTIC I-575 N. B.

10" SOLID WHITE

END PREFORMED PLASTIC PAVEMENT MARKINGS AT STA. 412+94

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST EDGE LINE

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

5" SOLID WHITE EDGE LINE

2 EA TP 3 (CLR/RED) PAVEMENT MARKERS PLACED SIDE-BY-SIDE (TYP.)

5" SKIP WHITE 2'SEG., 6'GAP

NON-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

WETLAND F

EXIST. ROPE MILL ROAD

18" RCP

8" CMP

2 EA TP 3 (CLR/RED)

PROPERTY AND EXISTING R/W LINE ——℄——
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 ——ooo——ooo——
REQ'D R/W & LIMIT OF ACCESS ——|||——|||——

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 NB ENTRANCE RAMP B
STA. 412+00 TO STA. 418+00

DRAWING No. 26-026

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

I-575 N.B.

686+00 687+00 688+00 689+00 690+00 691+00

CONST. ℄ I-575

419+00 420+00 421+00 422+00 423+00

CONST. ℄ RAMP "B"

MATCH LINE STA. 418+00

MATCH LINE STA. 424+00

18" RCP

D10-2 (10"x27") STA. 691+20

MILE 1 0

5" SKIP WHITE 2'SEG., 6'GAP

5" SOLID WHITE EDGE LINE

RESET BLUE LOGO FOOD SIGN TO STA. 689+89, RELOCATED FROM APPROX. STA. 686+33

BLUE LOGO FOOD AHEAD

RESET BLUE LOGO FOOD SIGN STA. 689+89, RELOCATED FROM APPROX. STA. 686+33

D10-2 (10"x27") STA. 691+20

MILE 1 0

EXIST. R/W & L/A

EXIST. R/W & L/A

EXIST. ROPE MILL ROAD

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

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

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

I-575 NB ENTRANCE RAMP B
STA. 418+00 TO STA. 424+00

DRAWING No. 26-027

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

I-575 N.B.

MATCH LINE STA. 424+00

692+00 693+00 694+00 695+00 696+00 697+00

CONST. ℄ I-575

425+00 426+00 427+00

CONST. ℄ RAMP "B"

30" RCP

15" CMP

5" SKIP WHITE 2'SEG., 6'GAP

5" SOLID WHITE EDGE LINE

REMOVE HIGHWAY SIGN SPECIAL ROADSIDE, *1 EACH

TIE TO EXISTING MARKING STA. 427+96

END RAMP "B" STA. 427+96.04

SPECIAL ROADSIDE SIGN *05 STA. 648+08

EXIT 11 — Sixes Rd — EXIT 1 MILE

SPECIAL ROADSIDE SIGN WITH BREAK-AWAY POSTS. FOR ERECTION AND FOUNDATION DETAILS REFER TO GEORGIA STANDARDS 9045A, 9045B, AND 9045C.

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

M1-1 (45x36) STA. 697+50

MB3-3 INTERSTATE 575 NORTH

SPECIAL ROADSIDE SIGN *02 SIGN TEMPLATE 46 STA. 695+00

6'-0" 11'-6" 9'-6" 2'-6"

EXIT 11 — Sixes Rd — 1 MILE

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

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

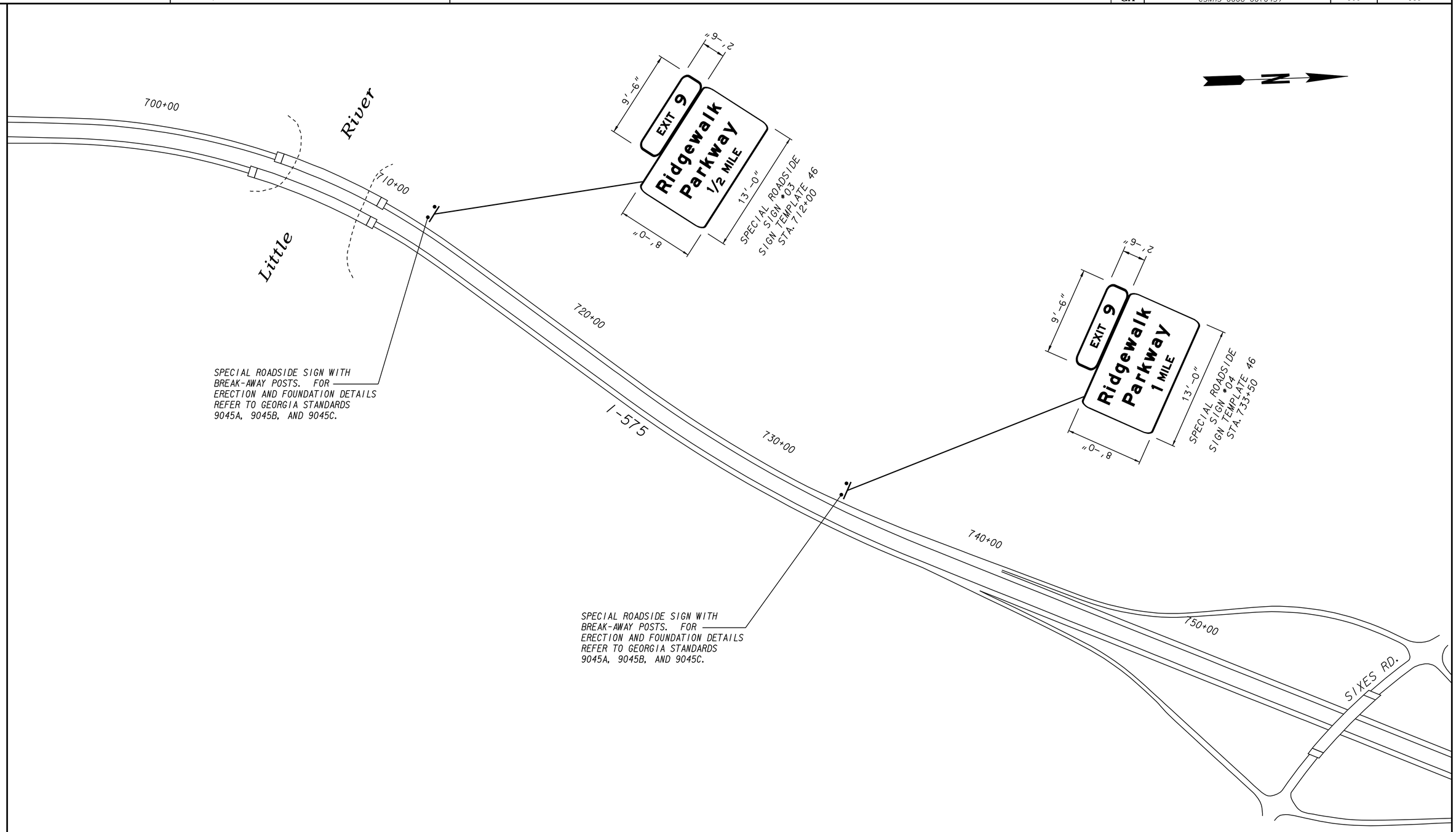
I-575 NB ENTRANCE RAMP B
STA. 424+00 TO END CONST.

DRAWING No. 26-028

1/5/2009 GPLN

06-DEC-2010 12:23 JParks	TIME$$$ 006043sm28A 8825Full.pen	Y:\Roadways\07400004\006043\DGN\006043sm28A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	383	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

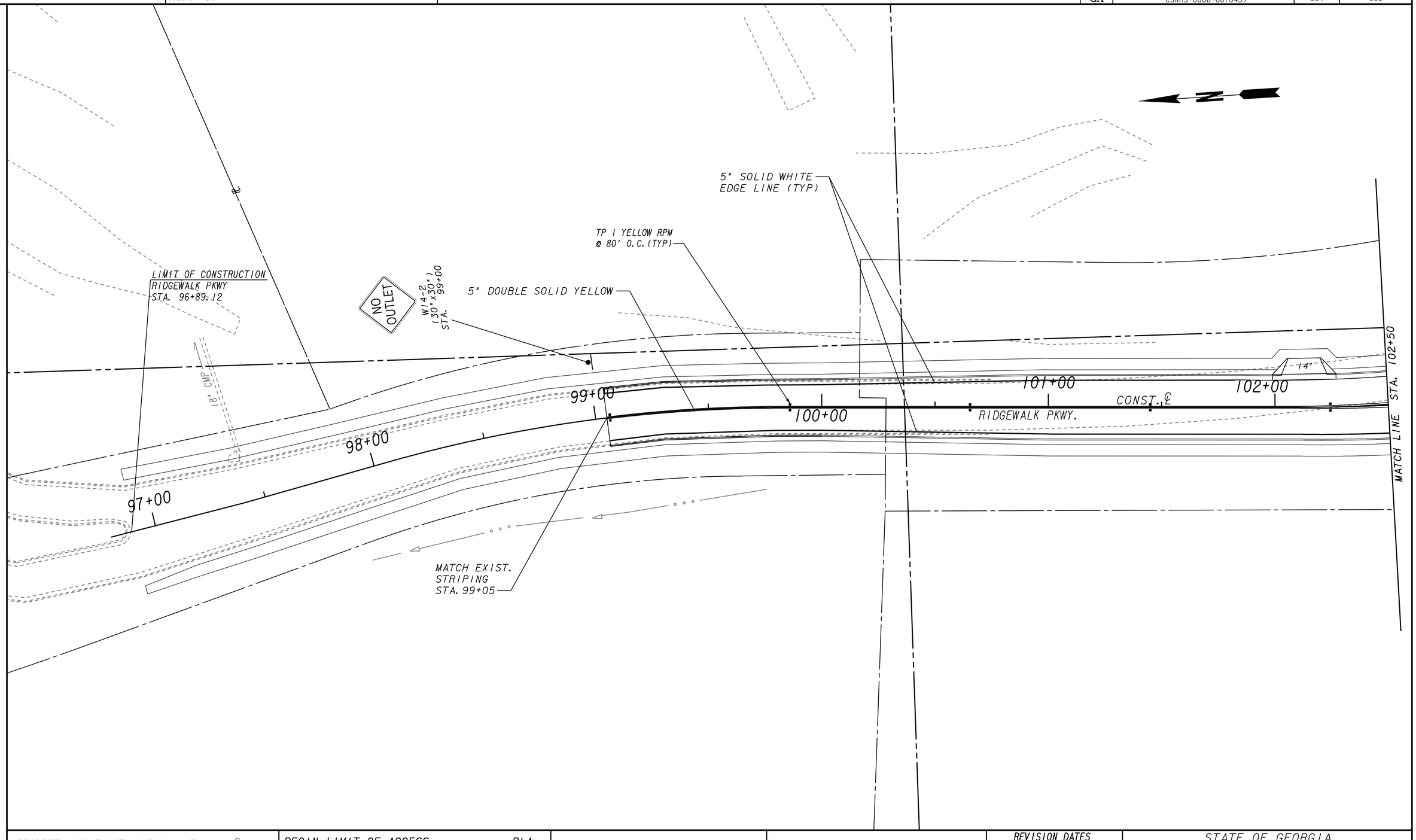
SIGNING AND MARKING PLANS

I-575
SPECIAL ROADSIDE SIGNS

DRAWING No. 26-28A

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

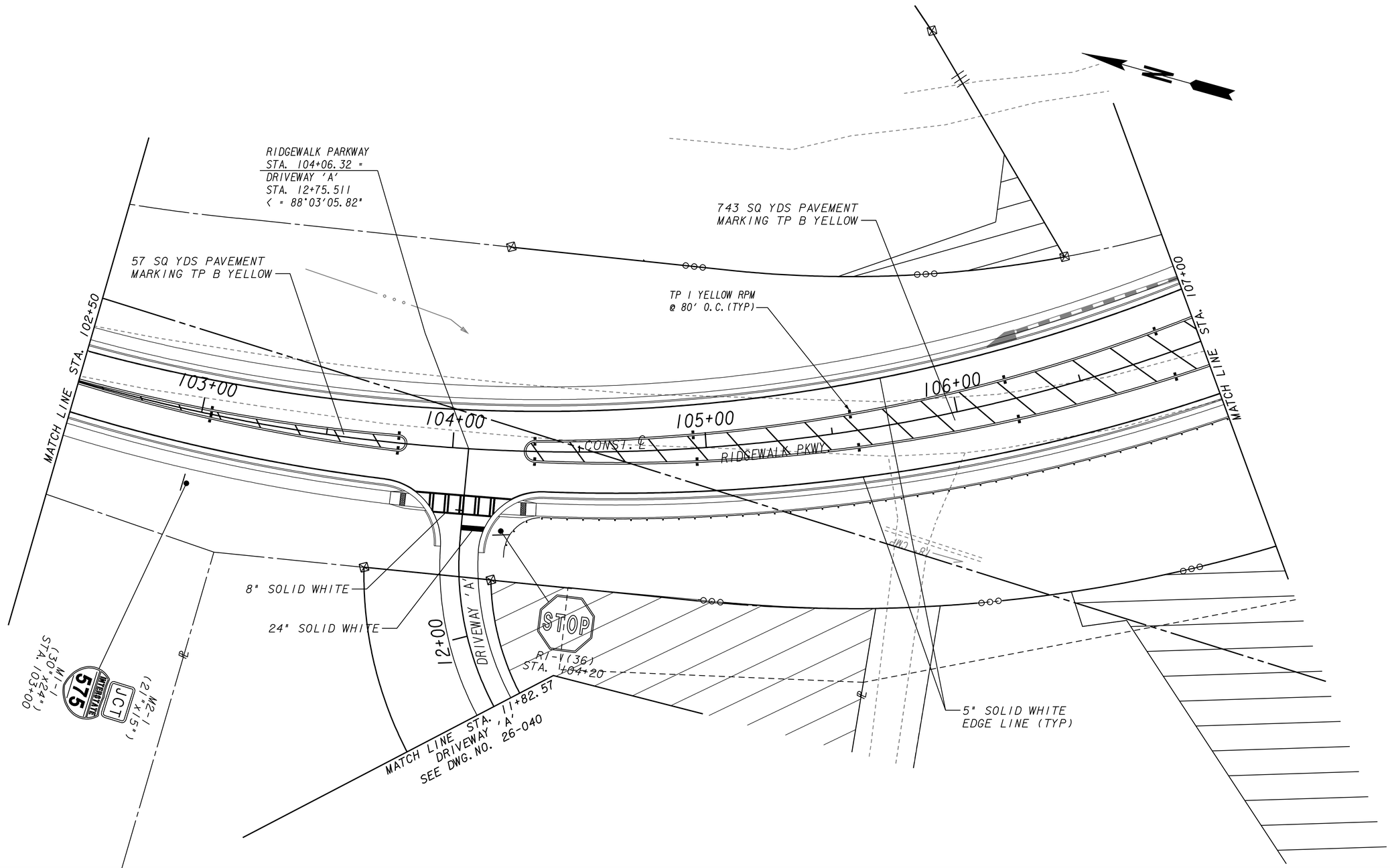
SIGNING AND MARKING PLANS

RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 26-029

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
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REQ'D R/W & LIMIT OF ACCESS

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REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 26-030

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 26-015
EXIT RAMP C
MATCH LINE STA. 501+50

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE
RIDGEWALK PARKWAY
STA. 108+54.77 =
SB EXIT RAMP 'C'
STA. 500+00.00
< = 79°47'14.19"

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST EDGE LINE (TYP)

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST

R1-2 (36) STA. 500+56

TYPE 2 ARROW (TYP)

R1-1 (36) STA. 500+43

STOP

CONST. ℄ RAMP "C"

501+00

DO NOT ENTER
R5-1 (30)
STA. 107+85

24" SOLID WHITE PREFORMED PLASTIC

DO NOT ENTER
R5-1 (30)
STA. 108+74

TP 3 (CLEAR/RED) RPM @ 20' O.C.(TYP)

R3-2 (24) STA. 109+50

5" SOLID WHITE

ONE WAY
R6-1R (36"x12")
STA. 108+75

ONE WAY
R6-1L (36"x12")

(24x12) M3-3

SOUTH INTERSTATE 575

M1-1 (30"x24") STA. 109+90

M6-1L (21x15)

I-575

CONST. ℄

15" RCP

NON-BUFFERED STATE WATERS CONCRETE FLUME

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE (TYP)

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST (TYP)

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST EDGE LINE (TYP)

MATCH LINE STA. 107+00

106+00

122 SQ YDS PREFORMED PLASTIC PAVEMENT MARKING TP A WHITE

TYPE 2 ARROW

TP 1 YELLOW RPM (TYP)

109+00

110+00

CONSTRUCTION JOINT

111+00

112+00

CONST. ℄
RIDGEWALK PKWY.

BRIDGE COLUMN

MATCH LINE STA. 112+50

5' CMP

CONST. ℄

8" WHITE CERAMIC RPM, (8) TP 10 ON 4' DIA. CIRCLE

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB ENTRANCE RAMP 'D'
STA. 721+04.45
< = 79°47'13.39"

TP 1 YELLOW RPM @ 80' O.C.(TYP)

PG 176

845 SQ YDS PAVEMENT MARKING TP B YELLOW

R3-2 (24x24") STA. 107+45

M1-1 (30x24") STA. 108+00

M6-3 (21x15)

M6-1R (21x15)

575 INTERSTATE SOUTH

M3-1 (24x12) M3-3 (24x12)

8" SOLID WHITE PREFORMED PLASTIC

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST EDGE LINE

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

CONST. ℄ RAMP "D"

MATCH LINE STA. 719+50
ENTRANCE RAMP D
SEE DWG. NO. 26-014

45 SQ YDS PAVEMENT MARKING TP A YELLOW

5" SOLID YELLOW

M1-1 (30x24") STA. 109+95

R4-7 (24"x30") STA. 106+40

M5-1L (21x15)

575 INTERSTATE NORTH

M3-1 (24x12)

5" SKIP WHITE 2'SEG., 6'GAP

5" SOLID WHITE EDGE LINE (TYP)

2600 SY PAVEMENT MARKING DETAIL TYPE "D" WHITE

EXISTING TO BE REMOVED

MERGE LEFT LANE ENDS

I-575 SOUTHBOUND

I-575 NORTHBOUND

15" RCP

TP 3 (CLEAR/RED) RPM @ 20' O.C.(TYP)

TYPE 2 PREFORMED PLASTIC PAVEMENT ARROW (TYP)

670+00

699+00

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 26-031

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

SEE DWG. NO. 26-024
ENTRANCE RAMP B
MATCH LINE STA. 401+50

RAMP "B" CONST. ℄

401+00

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

8" SOLID WHITE PREFORMED PLASTIC (TYP)

M3-1 (24x12) NORTH INTERSTATE 575 M6-1R (21x15)

M3-3 (24x12) SOUTH INTERSTATE 575 M6-3 (21x15)

M1-1 (30x24) STA. 115+82

RIDGEWALK PARKWAY
STA. 115+19.42 = NB ENTRANCE RAMP "B"
STA. 400+00.00
℄ = 89°48'22.75"

REQD R/W & L/A

ACCESS EASEMENT

5" SOLID WHITE

828 SQ YDS PAVEMENT MARKING TP B YELLOW

TYPE 2 ARROW (TYP)

5" DOUBLE SOLID YELLOW

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

R3-2 (24"x24") STA. 116+35

(24"x12") M3-3 SOUTH INTERSTATE 575 M5-1L (21x15)

M1-1 STA. 109+95

5" SOLID WHITE

5" SKIP WHITE 2'SEG., 6'GAP

45 SQ YDS PAVEMENT MARKING TP A YELLOW

R4-7 (24"x30") STA. 114+22

5" SOLID WHITE EDGE LINE (TYP)

TP 1 YELLOW RPM @ 80' O.C. (TYP)

8" SOLID WHITE (TYP)

TP 1 YELLOW RPM (TYP)

CONST. ℄

113+00 | 114+00 | 115+00 | 116+00 | 117+00 | 118+00

RIDGEWALK PKWY.

MATCH LINE STA. 112+50

MATCH LINE STA. 118+50

24" SOLID WHITE

42 SQ YDS PREFORMED PLASTIC PAVEMENT MARKING TP A WHITE

5" SOLID WHITE EDGE LINE (TYP)

5" SKIP WHITE 2'SEG., 6'GAP (TYP)

REQD L/A

REQD L/A

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

5" SOLID WHITE (TYP)

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

TYPE 2 ARROW (TYP)

R3-2 (24"x24") STA. 113+25

R6-1L (36"x12") STA. 114+77

R6-1R (36"x12")

ONE WAY

ONE WAY

STOP

R1-1(36) STA. 319+00

PREFORMED PLASTIC TYPE 2 ARROW (TYP)

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE

R5-1 (30") STA. 114+93

DO NOT ENTER

8" PREFORMED PLASTIC SOLID BLACK-WHITE CONTRAST

CONST. ℄ RAMP "A"

MATCH LINE STA. 318+00
EXIT RAMP A
SEE DWG. NO. 26-023

YIELD

R1-1(36) STA. 318+96

R5-1 (30") STA. 115+61

DO NOT ENTER

8" WHITE CERAMIC RPM, (8) TP 10 ON 4' DIA. CIRCLE

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

8" PREFORMED PLASTIC SOLID BLACK-YELLOW CONTRAST EDGE LINE (TYP)

RIDGEWALK PARKWAY
STA. 115+19.42 = NB EXIT RAMP "A"
STA. 319+46.65
℄ = 87°58'38.76"

W16-8P (72"x24") Rope Mill Road Woodstock Pkwy

W3-3 (36"x36") STA. 116+70

M6-1L (12x15)

(24"x12") M3-1 NORTH INTERSTATE 575

M1-1 (30"x24") STA. 113+40

3½" | 9" | 1½" | 44½" | 3½"

24"

4" | 6" | 4" | 6" | 4"

← Rope Mill Road
Woodstock Pkwy →

3½" | 52" | 4" | 9" | 3½"

72"

W16-8p(72) (72"X24") STA. 116+70 1 EA. REQ'D.

3"Radius, ½"Edge w/ ¾"Border, 6"x9" Arrow, Black on Yellow [Rope Mill Road] C [Woodstock Pkwy] C

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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 26-032

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

SEE DWG. NO. 26-034
RELOC. ROPE MILL ROAD
MATCH LINE STA. 201+50

828 SQ YDS PAVEMENT MARKING TP B YELLOW

5" SOLID WHITE (TYP)

5" DOUBLE SOLID YELLOW (TYP)

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

TP 1 YELLOW RPM @ 80' O.C. (TYP)

TP 1 YELLOW RPM @ 80' O.C. (TYP)

M2-1 (21"x15")

JCT INTERSTATE 575

M1-1 (30"x24") STA. 120+00

201+00

RELOC. ROPE MILL RD

REQD R/W

18" CMP

18" CMP

18" CMP

TYPE 2 ARROW (TYP)

300'±

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

TIE TO EXISTING MARKING

MATCH LINE STA. 118+50

119+00

120+00

121+00

122+00

123+00

124+00

8" SOLID WHITE (TYP)

CONST. ℄ RIDGEWALK PKWY.

24" SOLID WHITE (TYP)

TIE TO EXIST RIDGEWALK PKWY STA. 122+00.00

5" DOUBLE SOLID YELLOW (TYP)

TP 1 YELLOW RPM @ 80' O.C. (TYP)

LIMIT OF CONSTRUCTION RIDGEWALK PKWY STA. 126+50.00

5" SOLID WHITE EDGE LINE (TYP)

WOODSTOCK PKWY.

MANHOLE, TELEPHONE, TOP 984.10

TYPE 2 ARROW (TYP)

5" SKIP WHITE 2'SEG., 6'GAP

5" SOLID WHITE (TYP)

TP 3 (CLEAR/RED) RPM @ 20' O.C. (TYP)

TP 1 YELLOW RPM (TYP)

UNKNOWN

5" SOLID WHITE EDGE LINE (TYP)

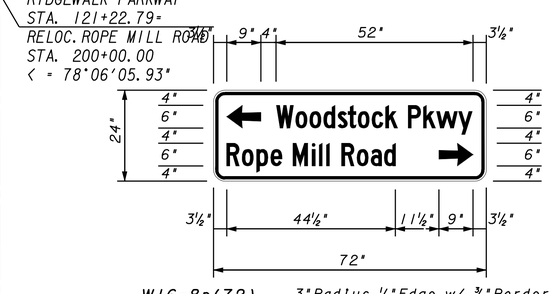
TIE TO EXISTING MARKING

RIDGEWALK PARKWAY
STA. 121+22.79=
RELOC. ROPE MILL ROAD
STA. 200+00.00
∠ = 78°06'05.93"

W3-3 (36"x36") STA. 126+50±

Woodstock Pkwy
Rope Mill Road

W16-8aP (72"x24")



W16-8p(72) (72"X24") STA. 126+50± 1 EA. REQ'D.

3"Radius, ½"Edge w/ ¾"Border, 6"x9" Arrow, Black on Yellow [Woodstock Pkwy] C [Rope Mill Road] C

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

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

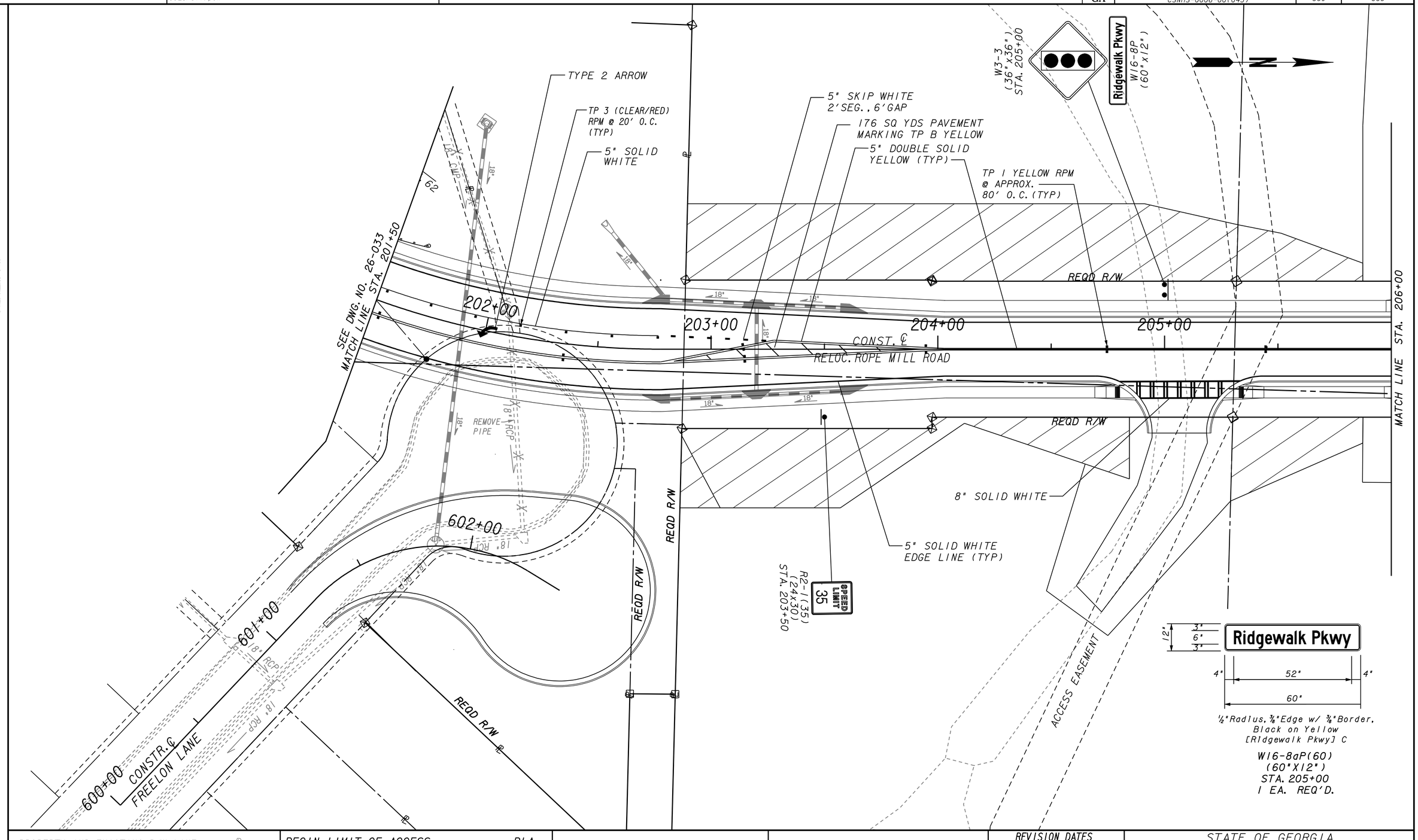
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 26-033

1/5/2009 GPLN

06-DEC-2010 12:24 JParks	TIME$$$ 006043sm34 8825Full.pen	Y:\Roadways\07400004\006043\DGN\006043sm34.dgn	STATE GA	PROJECT NUMBER CSNHS-0006-00(043)	SHEET NO. 389	TOTAL SHEETS 668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

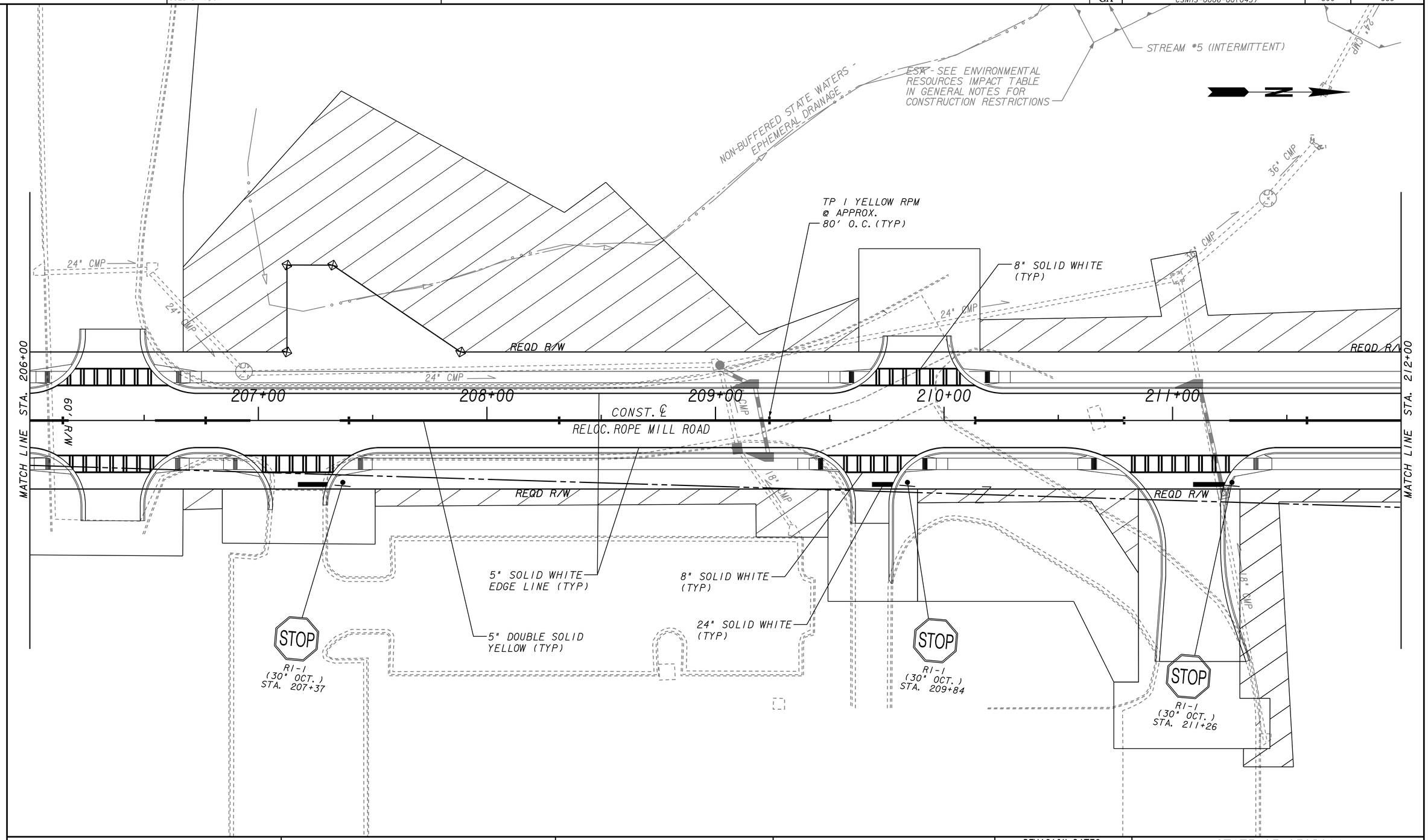
RELOC. ROPE MILL ROAD
STA. 202+50 TO STA. 206+00

DRAWING No. 26-034

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	390	668

RELEASED FOR CONSTRUCTION 12/02/10



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

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

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0 20 40 80

REVISION DATES

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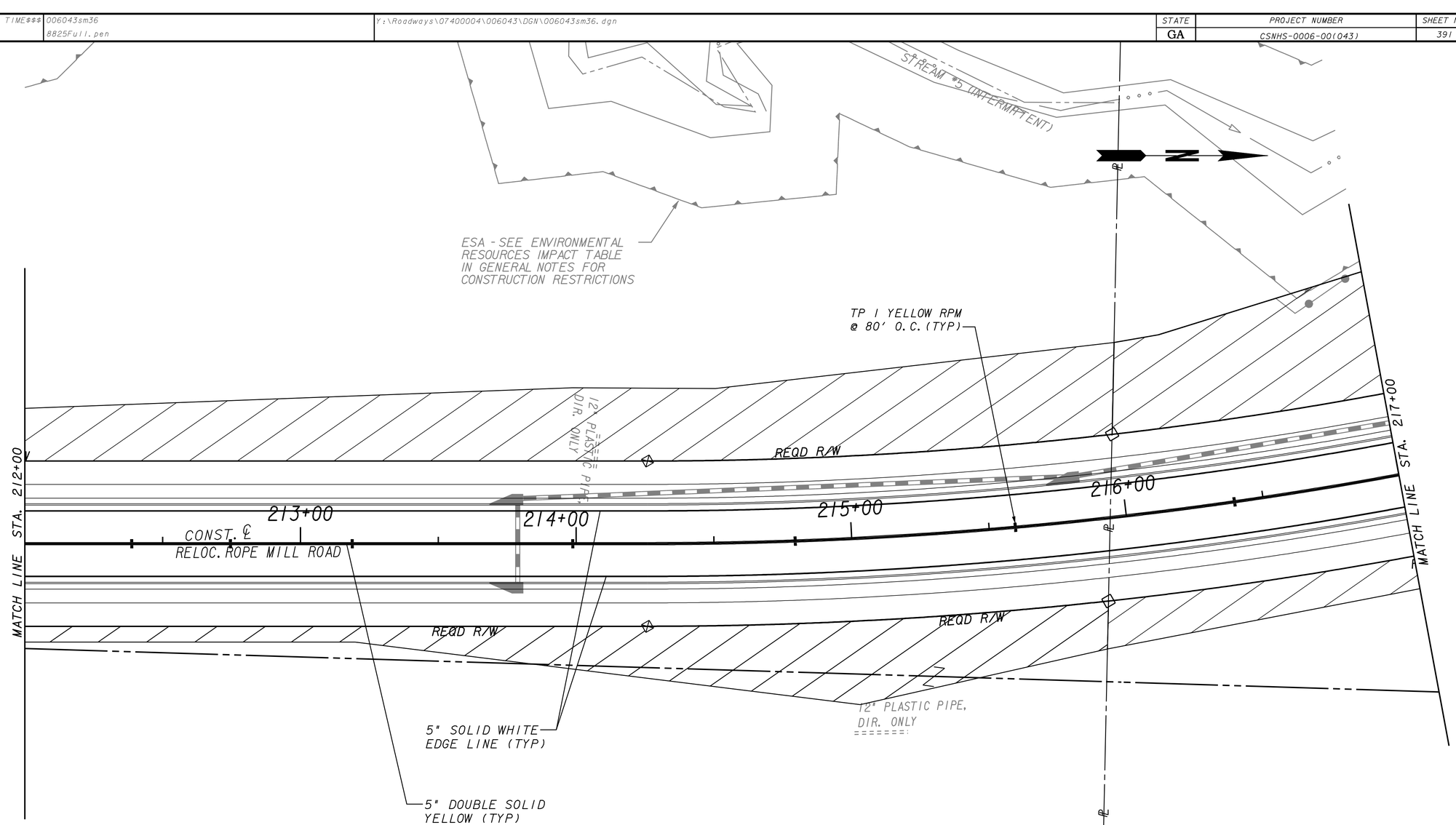
SIGNING AND MARKING PLANS

RELOC. ROPE MILL ROAD
STA. 206+00 TO STA. 212+00

DRAWING NO. 26-035

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

RELOC. ROPE MILL ROAD
STA. 212+00 TO STA. 217+00

DRAWING No. 26-036

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ESA-25' STREAM BUFFER

STREAM #5 (INTERMITTENT)

STREAM #5 (PERENNIAL)

INTERMITTENT STREAM #5A

ESA-25' STREAM BUFFER

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

18" CMP

5" SOLID WHITE EDGE LINE (TYP)

5" DOUBLE SOLID YELLOW (TYP)

TP I YELLOW RPM @ 80' O.C.(TYP)

MATCH LINE STA. 217+00

REQD R/W

218+00

219+00

220+00

221+00

CONST. ℄ RELOC. ROPE MILL ROAD

REQD R/W

REQD R/W

REQD R/W

REQD R/W

MATCH LINE STA. 222+00

STREAM #5 (PERENNIAL)

ESA

ESA ADVISORY SIGN (12x12) SEE DETAIL THIS SHEET STA. 219+00 2 EACH

TEMPORARY ORANGE BARRIER FENCE

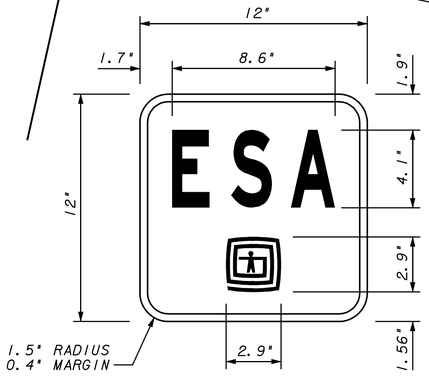
L.L.L.

TEMPORARY ORANGE BARRIER FENCE

ESA

ESA ADVISORY SIGN (12x12) SEE DETAIL THIS SHEET STA. 220+00 2 EACH

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS



SIGN SHALL HAVE WHITE HIGH INTENSITY REFLECTORIZED LEGEND AND BORDER WITH GREEN REFLECTORIZED BACKGROUND
* SEE SECTIONS 636, 910, 911, 912 AND 913 OF THE GEORGIA STANDARD SPECIFICATIONS.

ECOLOGICALLY SENSITIVE AREA ADVISORY

REQUIRED TOTAL 4 EACH

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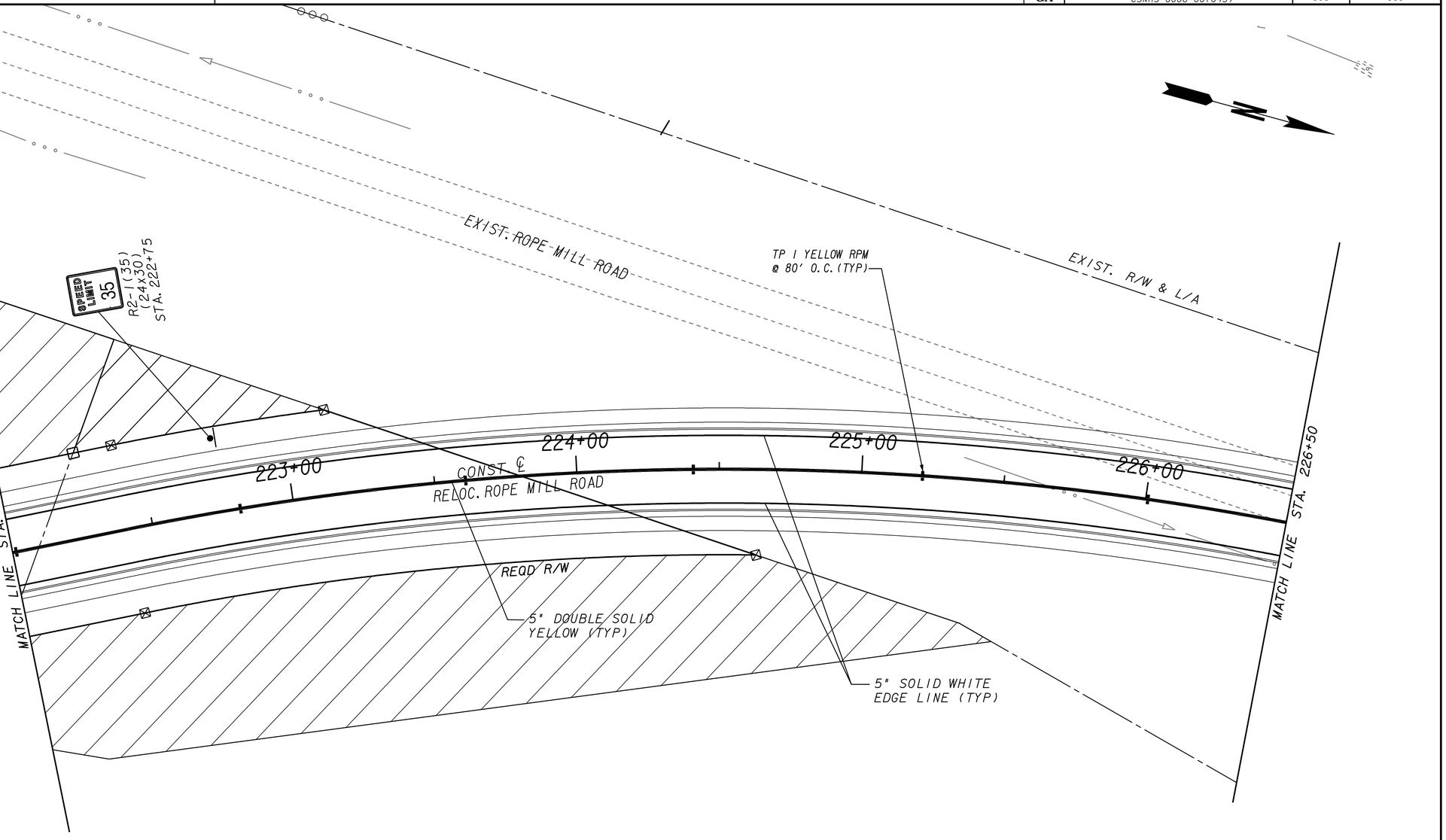
SIGNING AND MARKING PLANS

RELOC. ROPE MILL ROAD
STA. 217+00 TO STA. 222+00

DRAWING No. 26-037

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



PROPERTY AND EXISTING R/W LINE
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SIGNING AND MARKING PLANS

RELOC. ROPE MILL ROAD
STA. 222+00 TO STA. 226+50

DRAWING No. 26-038

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

RESET BLUE LOGO FOOD SIGN
STA. 689+89, RELOCATED FROM
APPROX. STA. 686+33

EXIST. R/W & L/A

EXIST. R

MATCH LINE STA. 226+50

227+00

228+00

229+00

CONSTR. ℄
ROPE MILL RD.
(RELOCATION)

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

TIE TO EXISTING MARKING (TYP)

18" CMP

5" SOLID WHITE
EDGE LINE (TYP)

TP I YELLOW RPM
@ 80' O.C. (TYP)

5" DOUBLE SOLID
YELLOW (TYP)

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

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

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SCALE IN FEET
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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

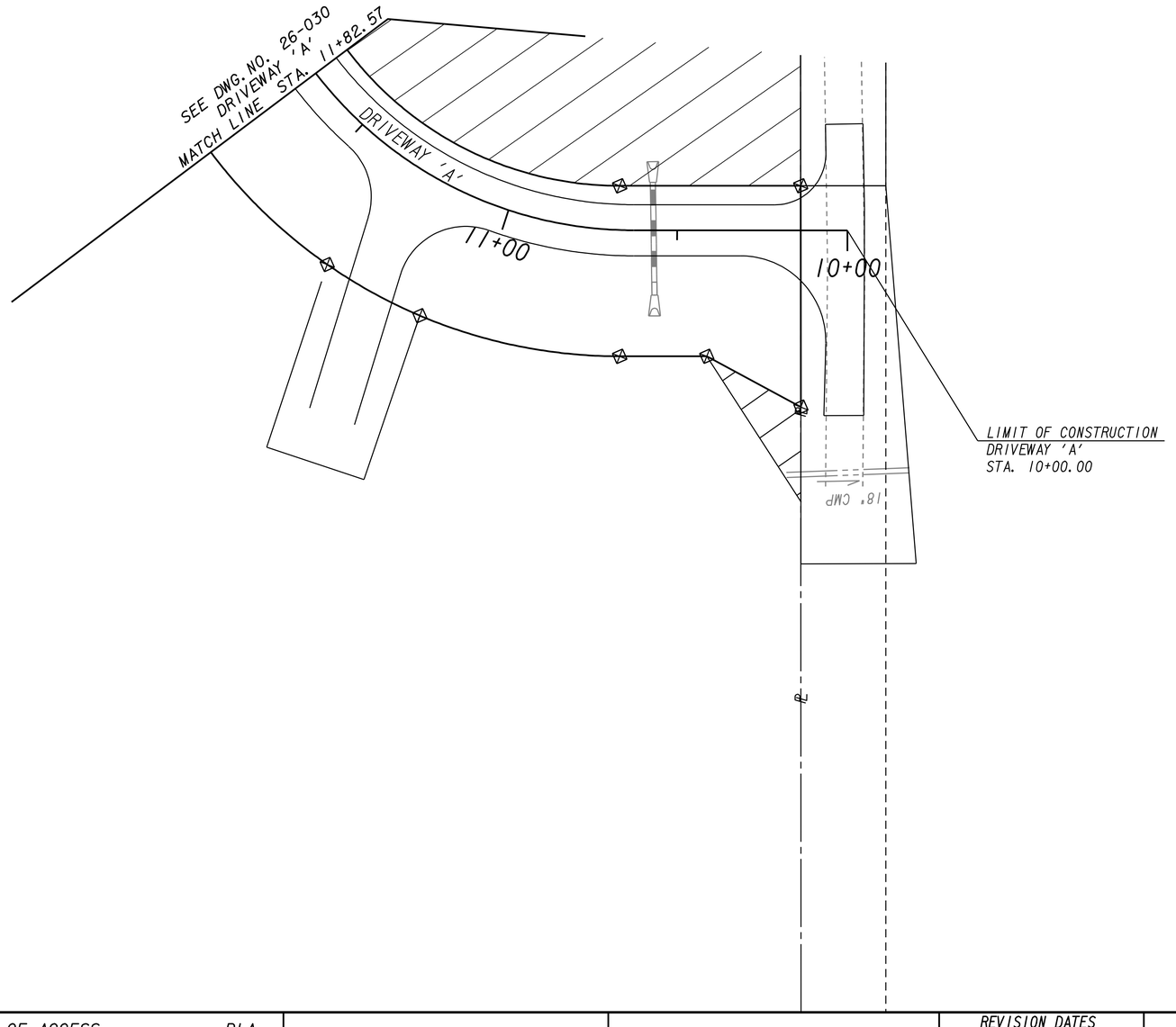
RELOC. ROPE MILL ROAD
STA. 226+50 TO END CONST.

DRAWING No. 26-039

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	395	668

RELEASED FOR CONSTRUCTION 12/02/10



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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

DRIVEWAY 'A'
BEGIN CONS. TO STA. 11+82.57

DRAWING No. 26-040

1/5/2009 GPLN

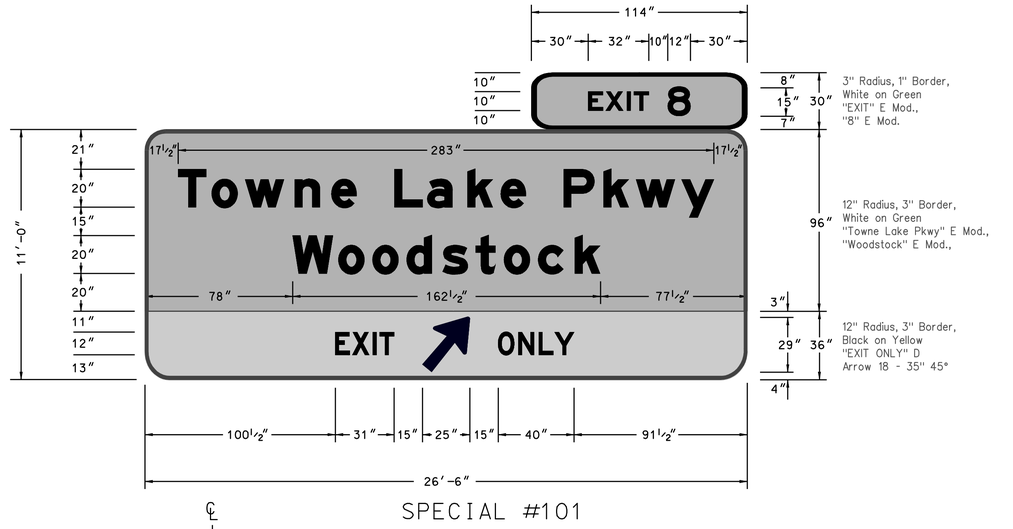
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	396	668

RELEASED FOR CONSTRUCTION 12/02/10

DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

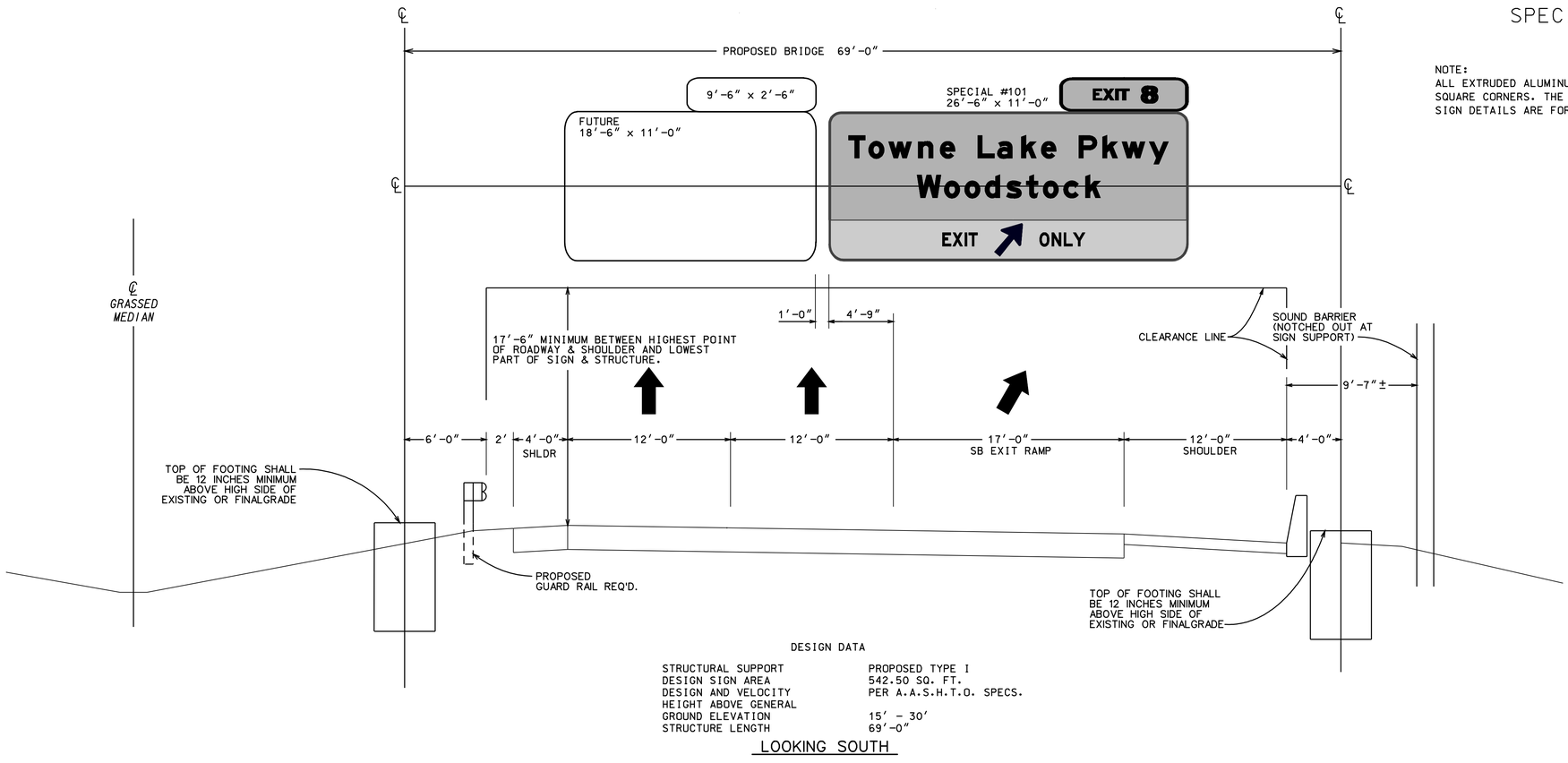
STRUCTURAL SUPPORT # T0084

STA. 602+79, I-575 SB



SPECIAL #101

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.



DESIGN DATA

STRUCTURAL SUPPORT	PROPOSED TYPE I
DESIGN SIGN AREA	542.50 SQ. FT.
DESIGN AND VELOCITY	PER A.A.S.H.T.O. SPECS.
HEIGHT ABOVE GENERAL GROUND ELEVATION	15' - 30'
STRUCTURE LENGTH	69'-0"

LOOKING SOUTH

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

OVERHEAD SIGN #101
CLEARANCE DIAGRAM

DRAWING No. 26-041

1/5/2009 GPLN

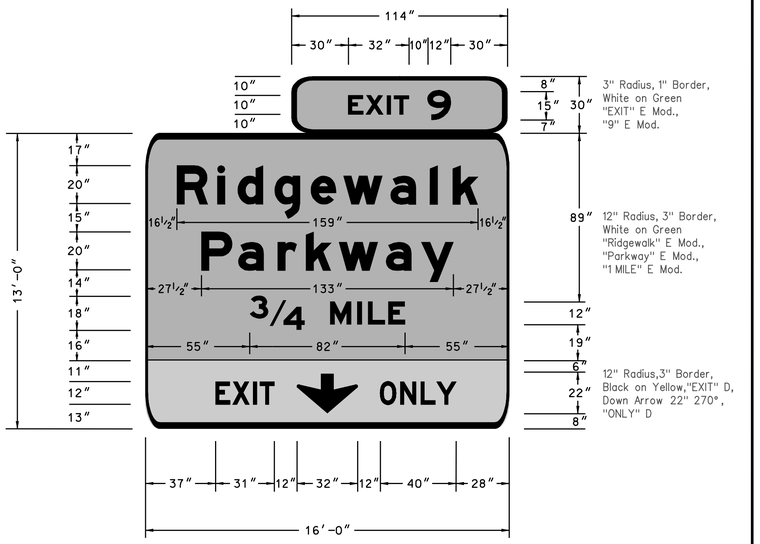
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	397	668

RELEASED FOR CONSTRUCTION 12/02/10

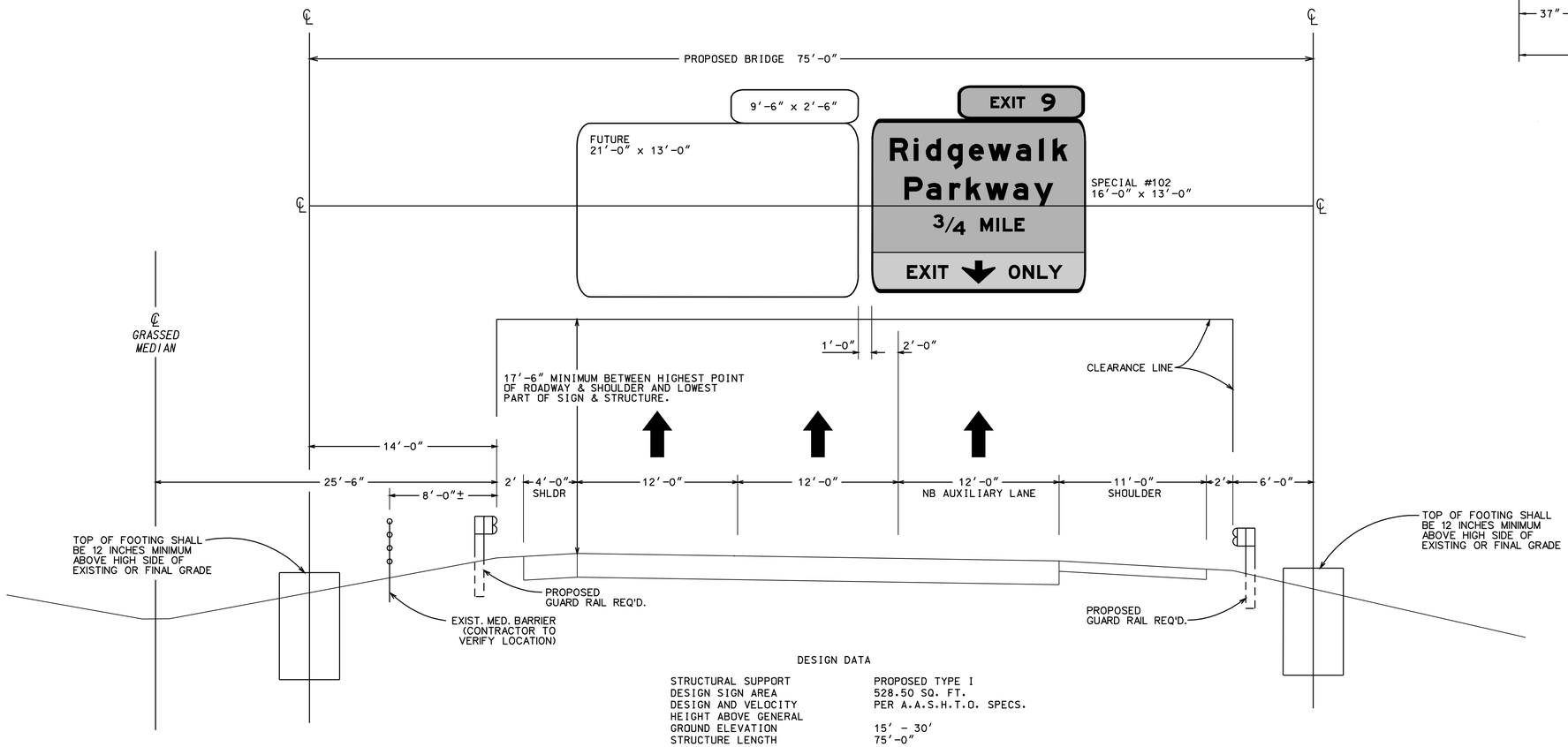
DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

STRUCTURAL SUPPORT # S0085

STA. 607+00, I-575 NB



SPECIAL #102
SIGN TEMPLATE 11



DESIGN DATA

STRUCTURAL SUPPORT	PROPOSED TYPE I
DESIGN SIGN AREA	528.50 SQ. FT.
DESIGN AND VELOCITY	PER A.A.S.H.T.O. SPECS.
HEIGHT ABOVE GENERAL GROUND ELEVATION	15′ - 30′
STRUCTURE LENGTH	75′-0″

LOOKING NORTH

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

OVERHEAD SIGN #102
CLEARANCE DIAGRAM

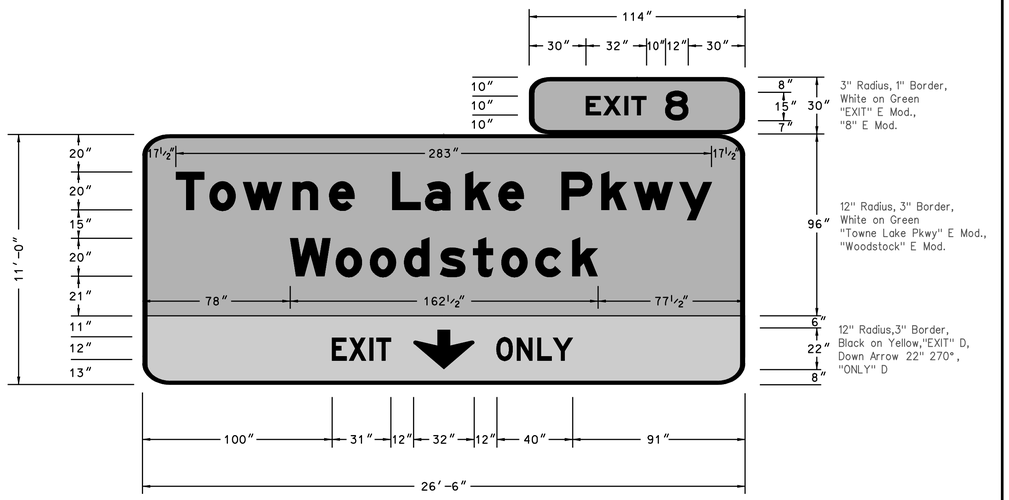
DRAWING No. 26-042

RELEASED FOR CONSTRUCTION 12/02/10

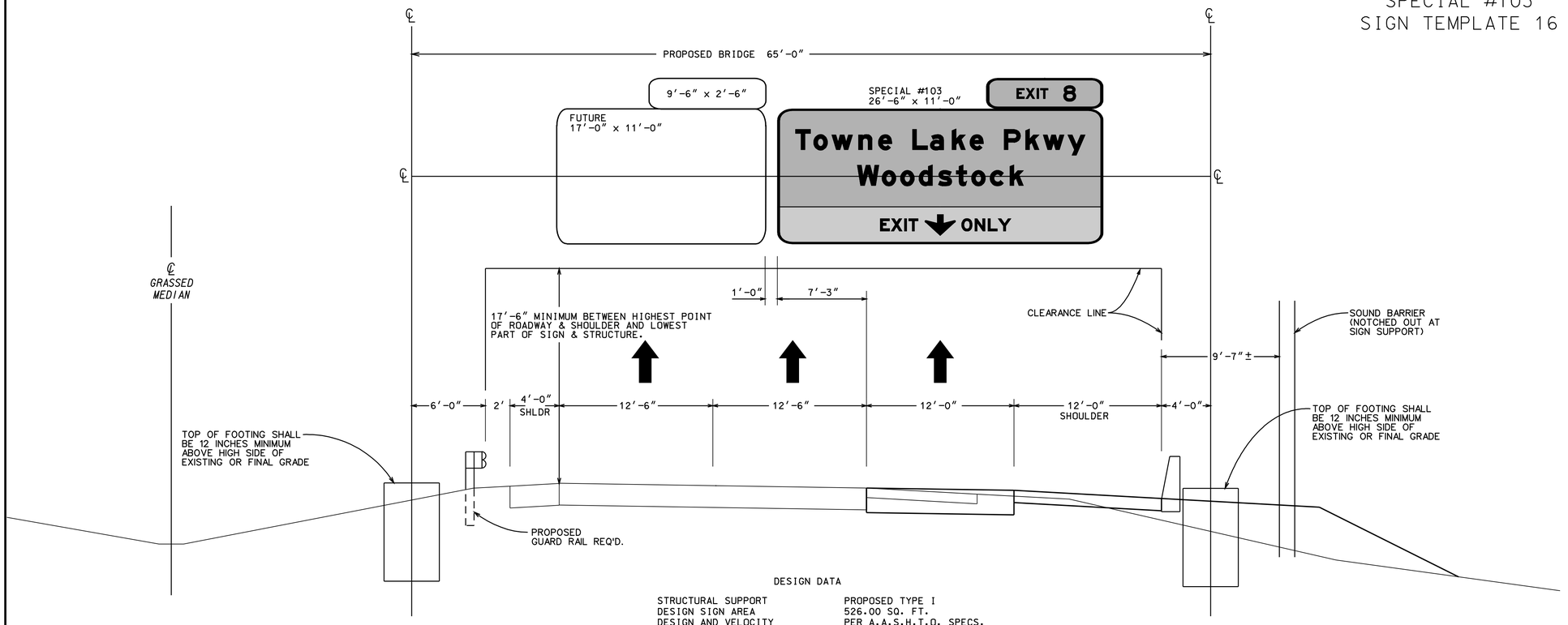
DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

STRUCTURAL SUPPORT # T0088

STA. 626+62, I-575 SB



SPECIAL #103
SIGN TEMPLATE 16



DESIGN DATA

STRUCTURAL SUPPORT	PROPOSED TYPE I
DESIGN SIGN AREA	526.00 SQ. FT.
DESIGN AND VELOCITY	PER A.A.S.H.T.O. SPECS.
HEIGHT ABOVE GENERAL GROUND ELEVATION	15′ – 30′
STRUCTURE LENGTH	65′-0″

LOOKING SOUTH

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

OVERHEAD SIGN #103
CLEARANCE DIAGRAM

DRAWING No. 26-043

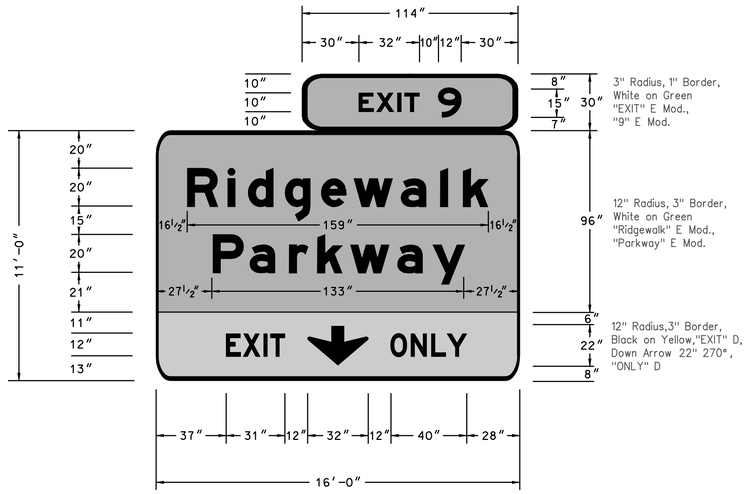
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	399	668

RELEASED FOR CONSTRUCTION 12/02/10

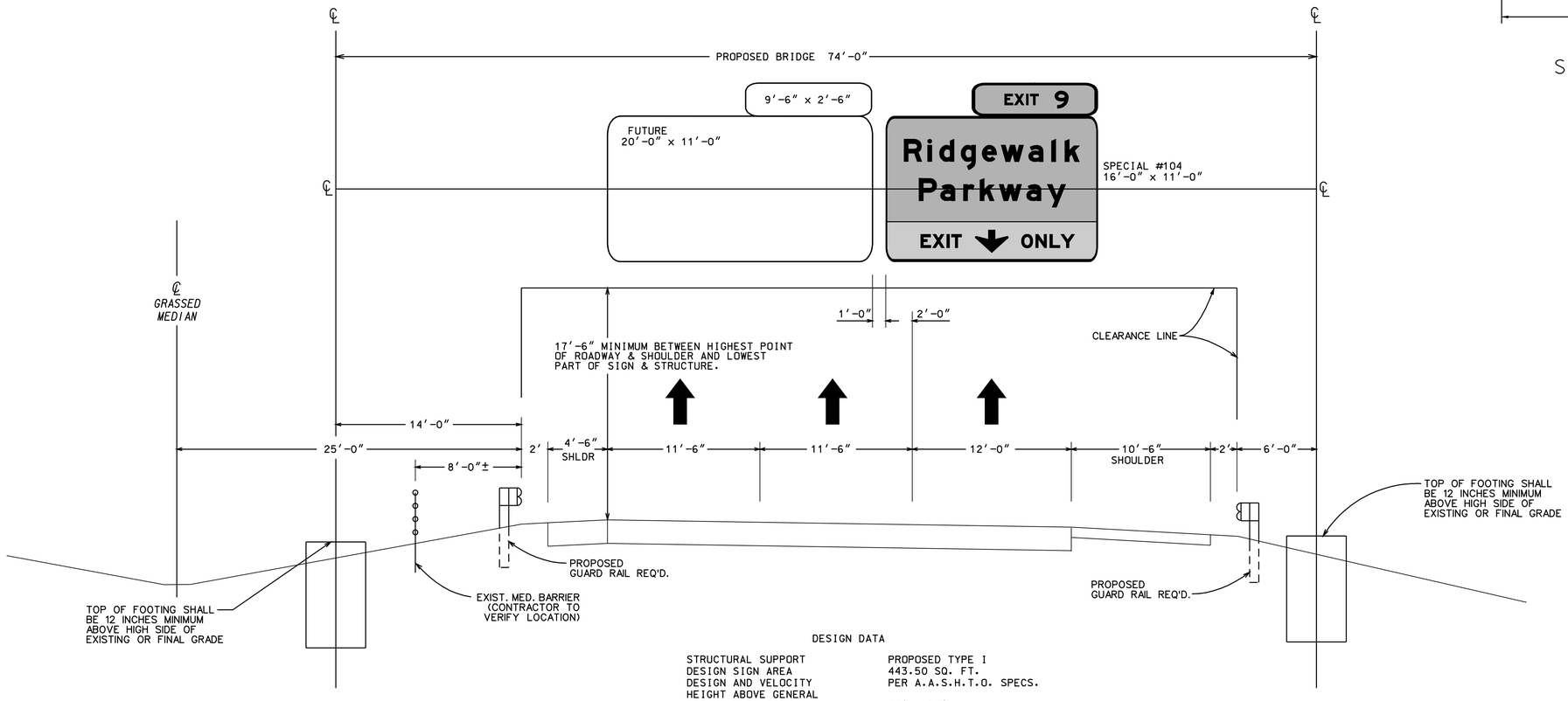
DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

STRUCTURAL SUPPORT # S0088

STA. 626+62, I-575 NB



SPECIAL #104
SIGN TEMPLATE 16



DESIGN DATA

STRUCTURAL SUPPORT	PROPOSED TYPE I
DESIGN SIGN AREA	443.50 SQ. FT.
DESIGN AND VELOCITY	PER A.A.S.H.T.O. SPECS.
HEIGHT ABOVE GENERAL GROUND ELEVATION	15′ - 30′
STRUCTURE LENGTH	74′-0″

LOOKING NORTH

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.

THE LPA GROUP
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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

OVERHEAD SIGN #104
CLEARANCE DIAGRAM

DRAWING No. 26-044

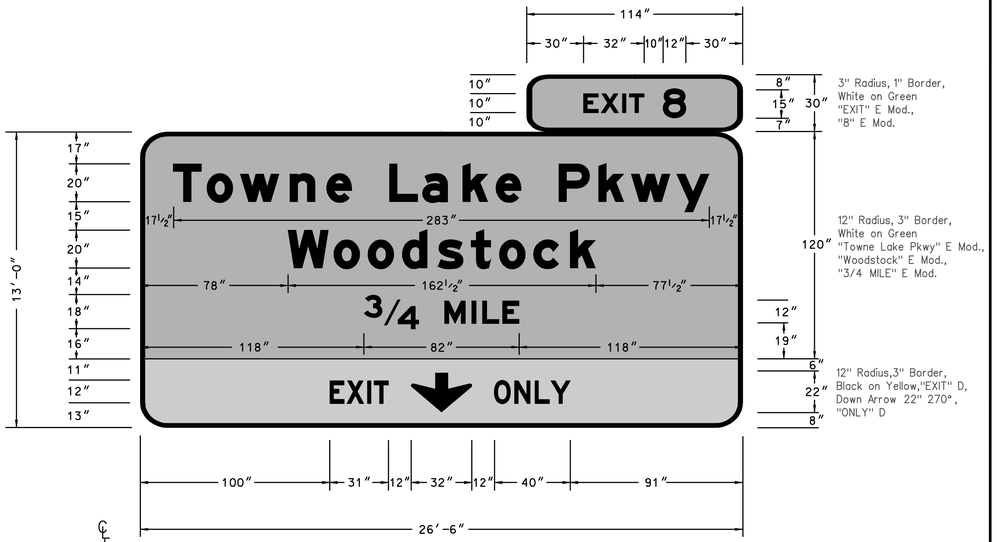
1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

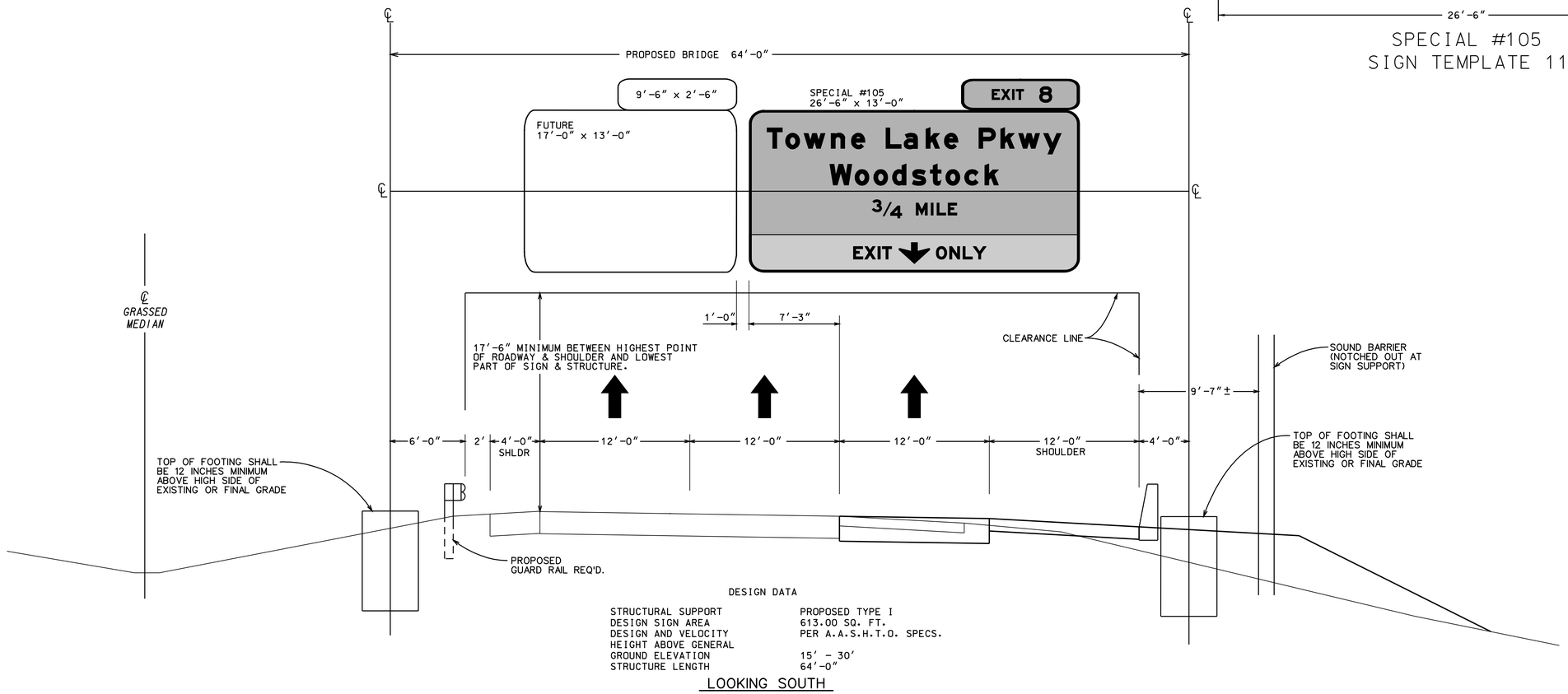
DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

STRUCTURAL SUPPORT # T0092

STA. 646+50, I-575 SB



SPECIAL #105
SIGN TEMPLATE 11



DESIGN DATA

STRUCTURAL SUPPORT	PROPOSED TYPE I
DESIGN SIGN AREA	613.00 SQ. FT.
DESIGN AND VELOCITY	PER A.A.S.H.T.O. SPECS.
HEIGHT ABOVE GENERAL GROUND ELEVATION	15′ - 30′
STRUCTURE LENGTH	64′-0″

LOOKING SOUTH

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

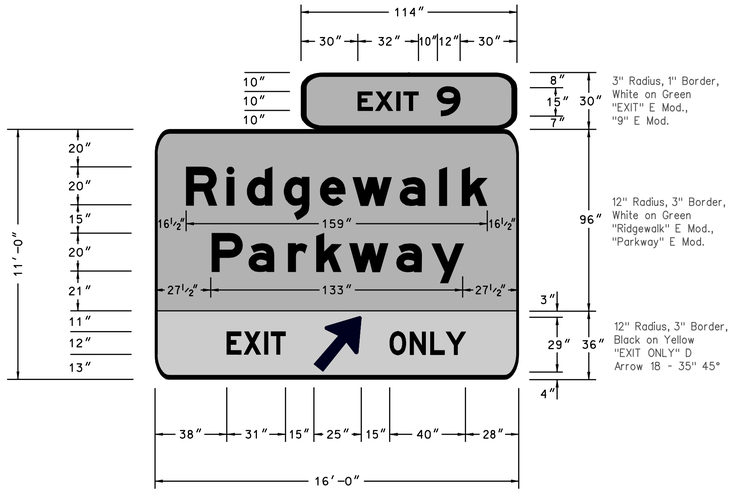
OVERHEAD SIGN #105
CLEARANCE DIAGRAM

DRAWING No. 26-045

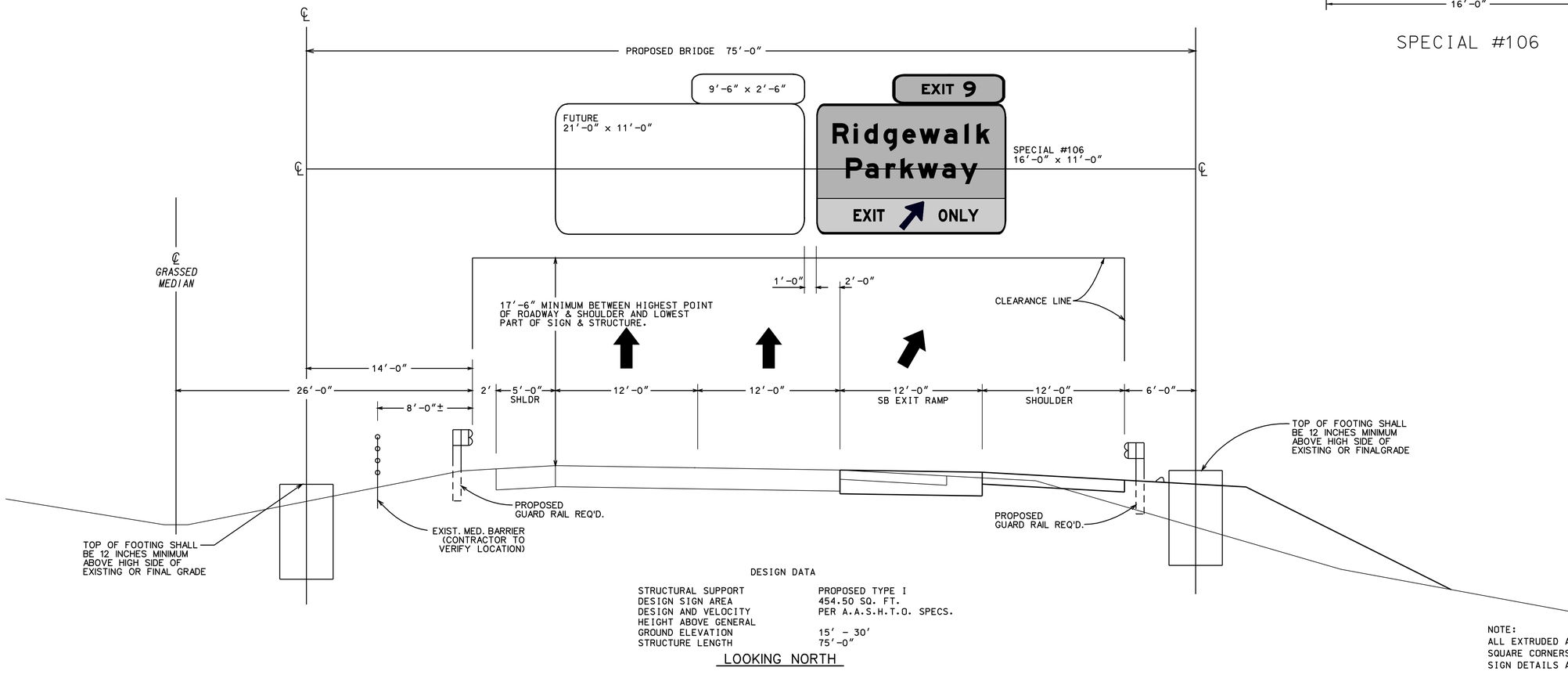
RELEASED FOR CONSTRUCTION 12/02/10

DETAILS & CLEARANCE DIAGRAM FOR OVERHEAD SIGNS

STRUCTURAL SUPPORT # S0093
STA. 650+44, I-575 NB



SPECIAL #106



DESIGN DATA

STRUCTURAL SUPPORT	PROPOSED TYPE I
DESIGN SIGN AREA	454.50 SQ. FT.
DESIGN AND VELOCITY	PER A.A.S.H.T.O. SPECS.
HEIGHT ABOVE GENERAL GROUND ELEVATION	15' - 30'
STRUCTURE LENGTH	75'-0"

LOOKING NORTH

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.

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REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNING AND MARKING PLANS

OVERHEAD SIGN #106
CLEARANCE DIAGRAM

DRAWING No. 26-046

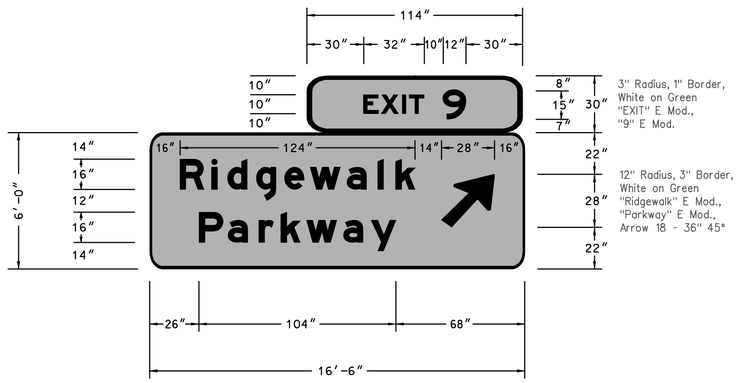
RELEASED FOR CONSTRUCTION 12/02/10

DETAILS FOR SPECIAL ROADSIDE SIGNS

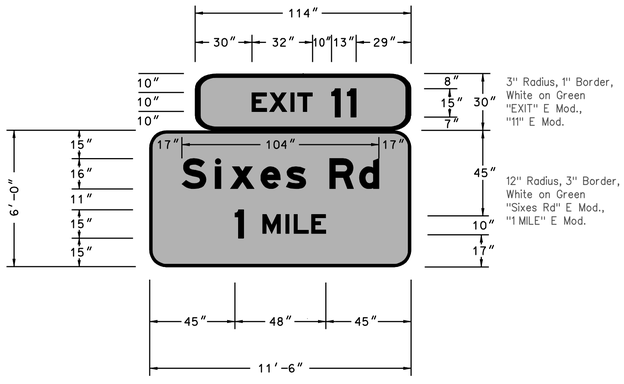
SPECIAL ROADSIDE SIGNS #01, #02, #03 & #04

#01 STA. 685+63 I-575 SB
#02 STA. 695+00 I-575 NB
#03 STA. 712+00 I-575 SB
#04 STA. 733+50 I-575 SB

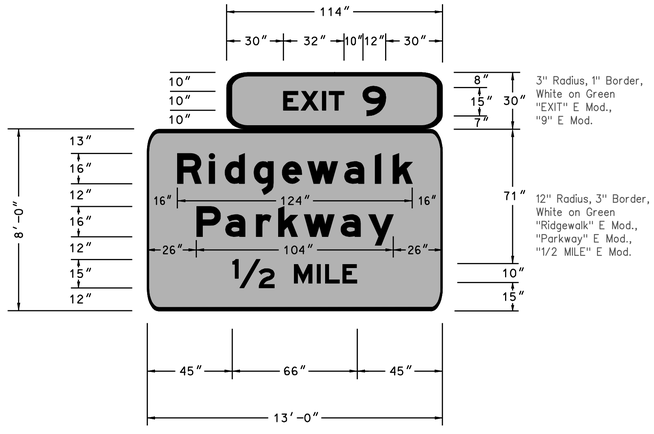
PROPOSED SPECIAL ROADSIDE SIGNS WITH BREAK-AWAY POSTS.
FOR ERECTION AND FOUNDATION DETAILS FOR THESE SIGNS
REFER TO GEORGIA STANDARDS 9045A, 9045B, AND 9045C.



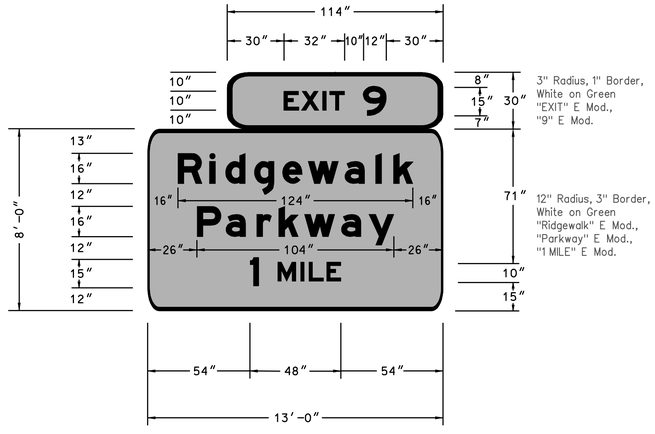
SPEC.ROADSIDE SIGN #01
STA.685+63 I-575 SB
SIGN TEMPLATE 51
122.75 SQ FT



SPEC.ROADSIDE SIGN #02
STA.695+00 I-575 NB
SIGN TEMPLATE 46
92.75 SQ FT



SPEC.ROADSIDE SIGN #03
STA.712+00 I-575 SB
SIGN TEMPLATE 46
127.75 SQ FT



SPEC.ROADSIDE SIGN #04
STA.733+50 I-575 SB
SIGN TEMPLATE 46
127.75 SQ FT

NOTE:
ALL EXTRUDED ALUMINUM SIGN PANELS SHALL HAVE SQUARE CORNERS. THE RADII INDICATED ON THE SIGN DETAILS ARE FOR THE BORDER MARKING ONLY.

THE LPA GROUP
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(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
SIGNING AND MARKING PLANS
SPECIAL ROADSIDE SIGNS
DRAWING No. 26-047

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXISTING UTILITIES

- EXISTING GUY WIRE
- EX.OH ELECTRIC
- EX POWER POLE
- EX TRANSFORMER
- EX.UG ELECTRIC
- EX GAS LINE
- EX GAS METER
- EX GAS VALVE
- EX WATER LINE
- EX FIRE HYDRANT
- EX WATER METER
- EX WATER VALVE
- EX SANITARY SEWER
- EX SS MANHOLE
- EX TELEPHONE MH
- EX OH TELEPHONE
- EX TELEPHONE POLE
- EX UG TELEPHONE
- EX OH CABLE TV
- EX UG CABLE TV

EXISTING SIGNAL

- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 5 SECTION HEAD
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP
- PULLBOX,TP 1
- PULLBOX,TP 2
- PULLBOX,TP 4
- PULLBOX,TP 5
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- RAILROAD CONTROLLER
- SIGN POST

PROPOSED SIGNAL

- CONTROLLER CABINET WITH BATTERY BACKUP
- CONTROLLER CABINET
- STRAIN POLE
- TIMBER POLE
- DOWN GUY
- MAST ARM
- STREET LIGHT
- 3 SECTION HEAD
- 3 SECTION HEAD W/ BACKPLATE
- 5 SECTION HEAD
- 5 SECTION HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTAL POLE
- PED SIGNAL HEAD
- CURB CUT RAMP - (See ADA Detail)
- PULLBOX,TP 1
- PULLBOX,TP 2
- PULLBOX,TP 3
- PULLBOX,TP 6
- PULLBOX,TP 7
- 6x6 PULSE LOOP
- 6x18 CALL LOOP
- 6x40 PRESENCE LOOP (DIPOLE)
- 6x40 PRESENCE LOOP (QUADRUPOLE)
- CONDUIT
- BORED CONDUIT
- RAILROAD CONTROLLER
- SIGN POST

PROPERTY AND EXISTING R/W LINE — P — P	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS - C - F -	LIMIT OF ACCESS
EASEMENT FOR CONSTRUCTION & MAINTANENCE OF SLOPES	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

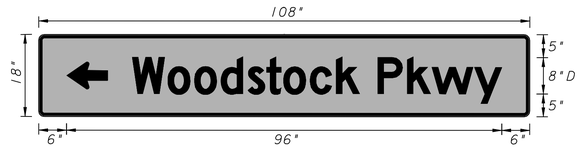
SIGNAL PLANS

LEGEND

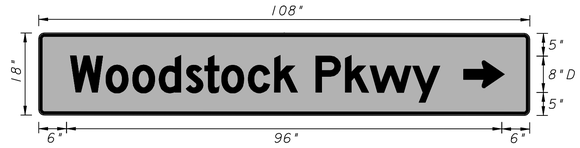
DRAWING No. 27-001

RELEASED FOR CONSTRUCTION 12/02/10

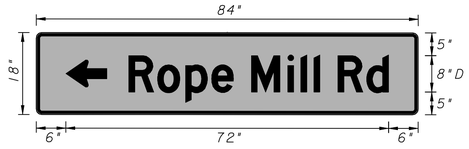
DETAILS OF OVERHEAD STREET NAME SIGNS



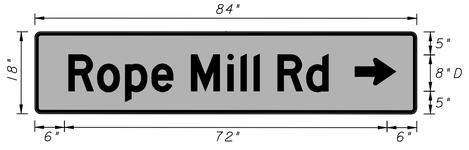
D-SPEC *1



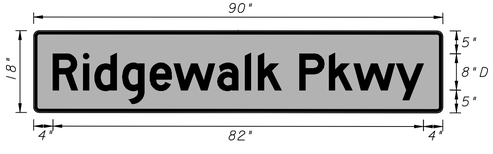
D-SPEC *2



D-SPEC *3



D-SPEC *4



D-SPEC *5

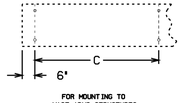
SUMMARY OF QUANTITIES FOR OVERHEAD STREET NAME SIGNS - FOR INFORMATION ONLY

SIGNS - TYPE 2 MAT'L, REFL SHEETING TYPE 6				
LOCATION	CODE	SIZE	QUANTITY	SQUARE FEET
RIDGEWALK PARKWAY AT	D-SPEC *1	108" X 18"	1	13.5
WOODSTOCK PARKWAY/	D-SPEC *2	108" X 18"	1	13.5
ROPE MILL ROAD	D-SPEC *3	84" X 18"	1	10.5
	D-SPEC *4	84" X 18"	1	10.5
	D-SPEC *5	90" X 18"	2	22.5
TOTAL			6	70.5

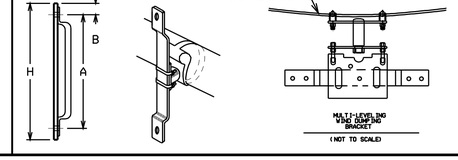
GENERAL NOTES:

1. EACH SIGN SHALL CONTAIN A MINIMUM OF TWO (2) HANGERS OR BRACKETS.
2. SIGN LEGEND SHALL BE 8-IN. UPPER CASE & 6-IN. LOWER CASE SERIES 'D' LETTERS, ALL ARROWS SHALL BE 6-IN. TALL & 9-IN. LONG
3. EACH SIGN SHALL CONTAIN 1/2-IN BORDERS AND 1 1/2-IN RADII.
4. EACH SIGN SHALL BE MADE OF ONE CONTINUOUS PIECE OF ALUMINUM.
5. SIGNS SHALL HAVE STANDARD REFLECTORIZED INTERSTATE GREEN BACKGROUND WITH WHITE REFLECTORIZED LEGENDS, BORDERS AND ARROWS.

MOUNTING DIMENSIONS			
H	A	B	C
12'	9'	1½'	36'
18'	15'	1½'	24'
24'	18'	1½'	18'
30'	24'	3'	12'



FOR MOUNTING TO MAST ARMS STRUCTURES.
(NOT TO SCALE)
NOTE: USE ASTRO MINI SIGN BRAC AND CLAMP OR EQUIVALENT



(NOT TO SCALE)

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNAL PLANS

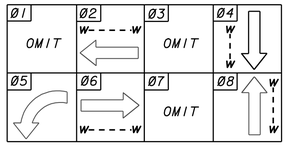
DETAILS OF OVERHEAD STREET NAME SIGNS

DRAWING No. 27-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

PHASING DIAGRAM

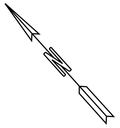


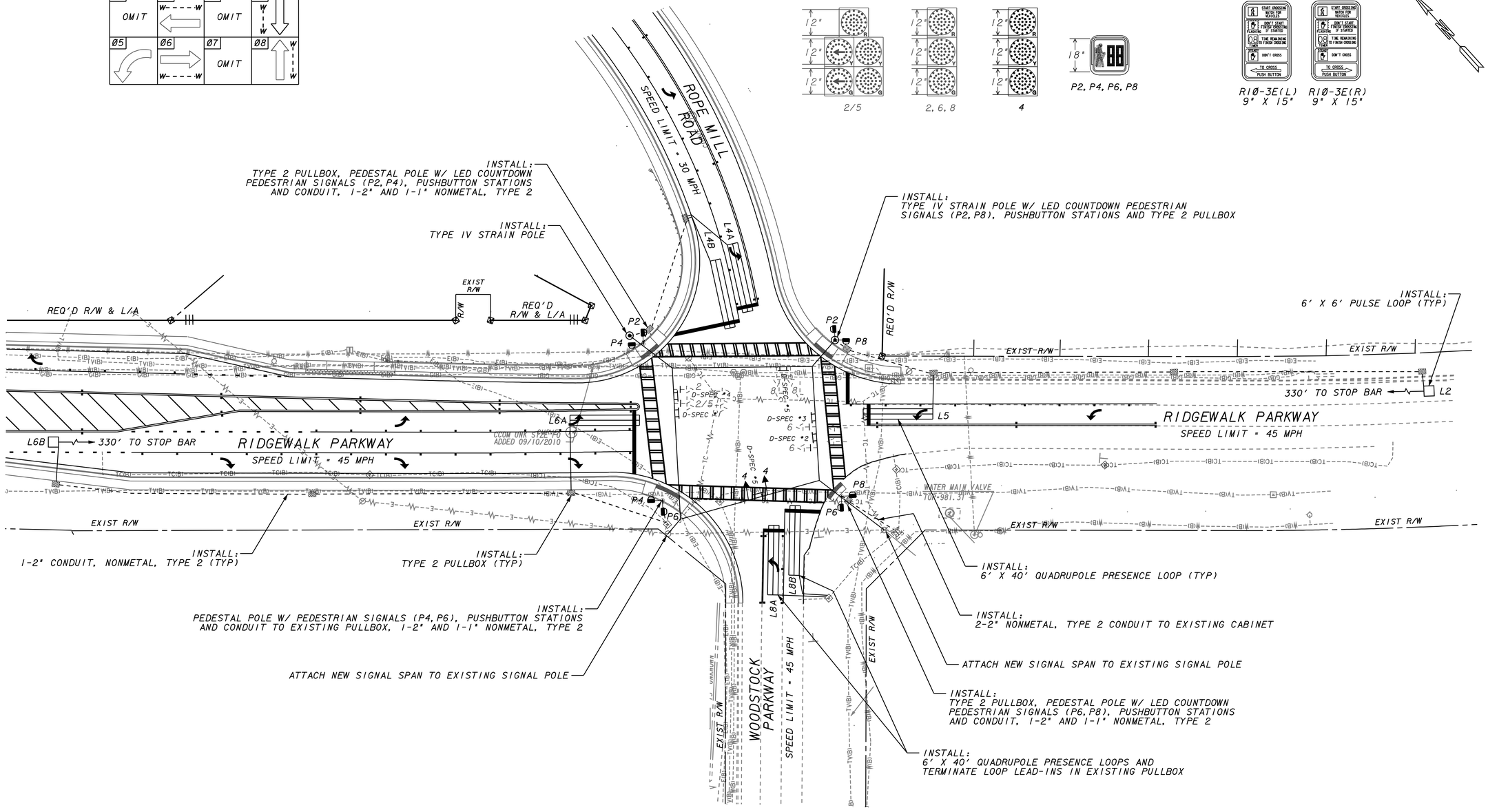
LED SIGNAL HEADS

TRAFFIC SIGNS

R1Ø-3E(L) 9" X 15"

R1Ø-3E(R) 9" X 15"





NOTE:
EXISTING SIGNAL HEADS 2/5, 2, 6 & 8 ARE TO BE RETAINED AND SHIFTED TO NEW SPAN. NEW BACKPLATES WILL BE INSTALLED ON SIGNAL HEADS 2/5, 2 & 6.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 30 60 120

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNAL MODIFICATION

RIDGEWALK PKWY AT
WOODSTOCK PKWY/
ROPE MILL RD

DRAWING No. 27-003

RELEASED FOR CONSTRUCTION 12/02/10

332 CABINET INPUT ASSIGNMENT

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UPPER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD		2-CH				2-CH						DC ISO	DC ISO	DC ISO
CHANNEL 1	CI PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION		L2				L4A						Ø2 PED	Ø6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION						L4B						Ø4 PED	Ø8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C

LOWER INPUT FILE

	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC
	CARD	2-CH	2-CH				2-CH								
CHANNEL 1	CI PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION	L5	L6A				L8A								
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
CHANNEL 2	CI PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		L6B				L8B								
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

SIGNAL MODIFICATION
RIDGEWALK PKWY AT
WOODSTOCK PKWY/
ROPE MILL RD

DRAWING No. 27-004

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ATMS LEGEND

- PROPOSED 6 X 40 QUADRUPOLE DETECTOR LOOP
- PROPOSED 6 X 6 DETECTOR LOOP
- EXISTING CCTV CAMERA
- PROPOSED CCTV CAMERA
- EXISTING VIDEO DETECTION SYSTEM CAMERA AND ZONE
- PROPOSED VIDEO DETECTION CAMERA AND ZONE
- EXISTING RADAR DETECTION SYSTEM
- PROPOSED RADAR DETECTION SYSTEM
- EXISTING CMS
- PROPOSED 3X21 CMS
- PROPOSED 3X15 CMS
- O/H EXISTING OVERHEAD SIGN
- EXISTING WOOD POLE
- EXISTING STRAIN POLE
- PROPOSED TYPE IV STRAIN POLE
- PROPOSED MAST ARM STRAIN POLE
- PROPOSED PEDESTAL POLE
- EXISTING EXTENSION POLE
- PROPOSED EXTENSION POLE
- EXISTING AERIAL OR UNDERGROUND SERVICE POINT LOCATION
- PROPOSED AERIAL OR UNDERGROUND SERVICE POINT LOCATION
- EJB PROPOSED ELECTRICAL JUNCTION BOX
- EXISTING ELECTRICAL COMMUNICATION BOX
- PROPOSED ELECTRICAL COMMUNICATION BOX
- PROPOSED 3 SECTION TRAFFIC SIGNAL HEAD
- PROPOSED MAST ARM

- EXISTING PULL BOX
- PB PROPOSED PULL BOX
- EXISTING CABINET
- PROPOSED GROUND-MOUNTED CABINET
- PROPOSED POLE-MOUNTED CABINET (SHADED FACE IS REAR)
- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL LEADING EDGE TREATMENT
- PROPOSED GUARDRAIL TRAILING EDGE TREATMENT
- C.B EXISTING CATCH BASIN
- D. EXISTING DROP INLET
- PROPOSED ADVANCE WARNING FLASHER
- PROPOSED GROUND-MOUNTED SIGN
- EXISTING SIGN
- EXISTING BRIDGE ATTACHED CONDUIT DUCT BANK
- PROPOSED BRIDGE ATTACHED CONDUIT DUCT BANK
- EXISTING CONDUIT DUCT BANK
- PROPOSED CONDUIT DUCT BANK
- PROPOSED CONDUIT ROUTING
- DITCH LINE OR EDGE OF WATER
- CONCRETE DITCH
- EDGE OF PAVEMENT
- SOLID TRAFFIC STRIPE
- SKIP TRAFFIC STRIPE
- SKIP STRIPE (2' STRIPE, 6' GAP)
- BARRIER WALL
- RETAINING WALL/ABUTMENT WALL
- WOODS LINE

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

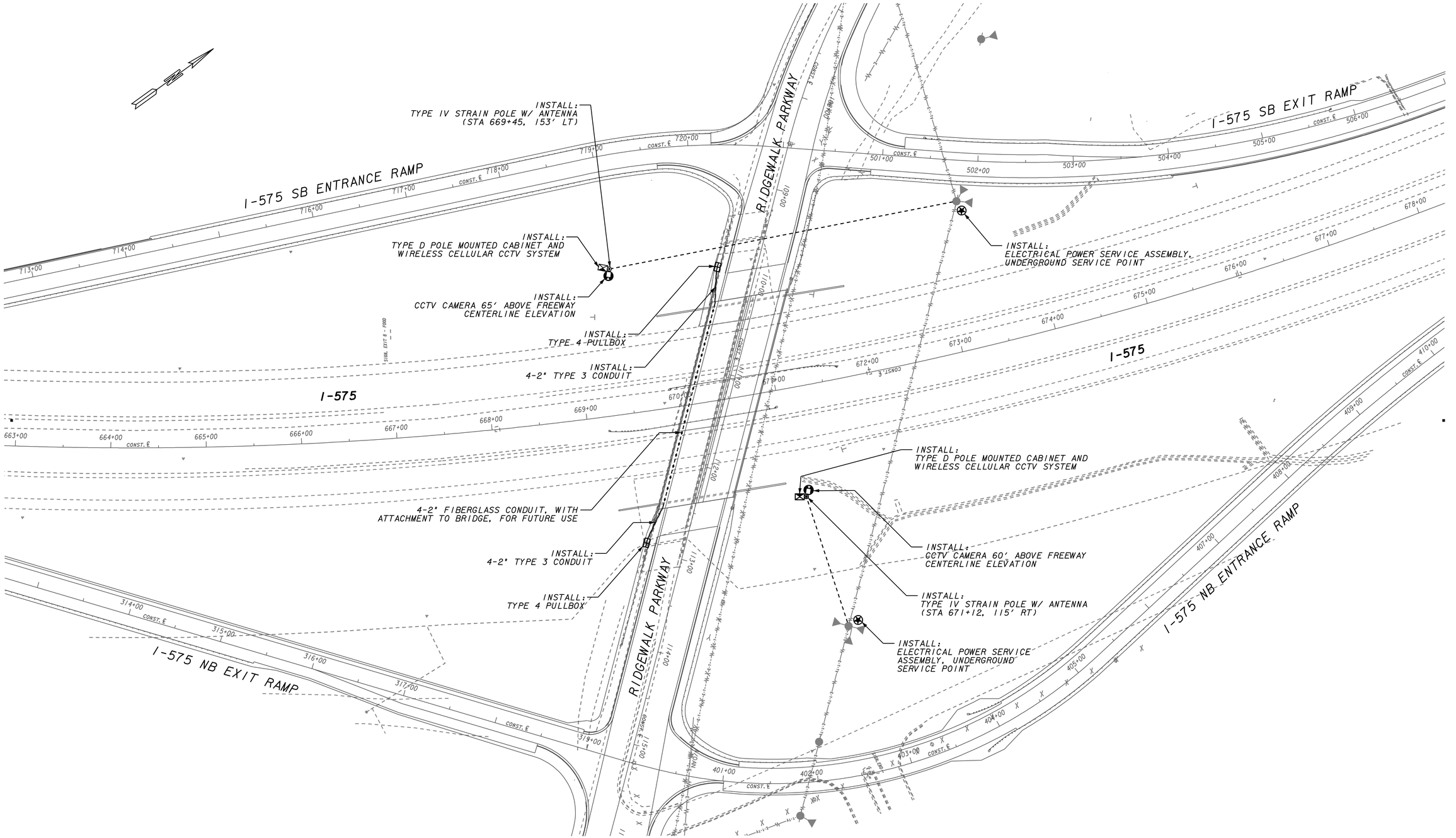
ATMS PLANS

LEGEND

DRAWING No. 28-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	408	668

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

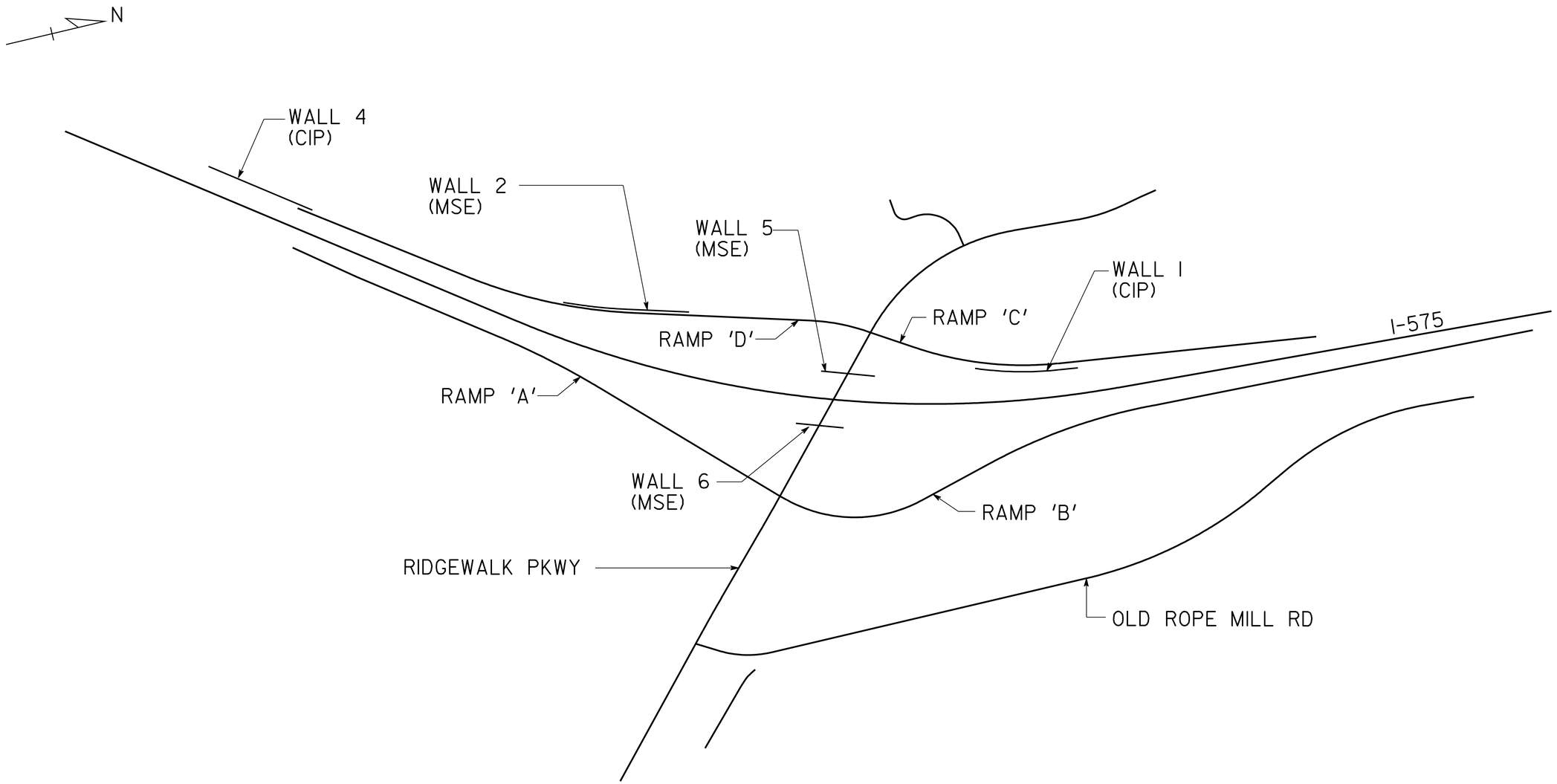
SCALE IN FEET
0 50 100 200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
ATMS PLANS
I-575 AT RIDGEWALK PKWY
DRAWING No. 28-002

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	409	668



NOTE: WALL 3 REMOVED, NOT TO BE CONSTRUCTED.

RELEASED FOR CONSTRUCTION 12-02-2010

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL LOCATIONS
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

DRAWING NO. 31-01
WALL SHEET 1 OF 1

NO SCALE DECEMBER 2010

DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

REVISIONS | BY | DATE

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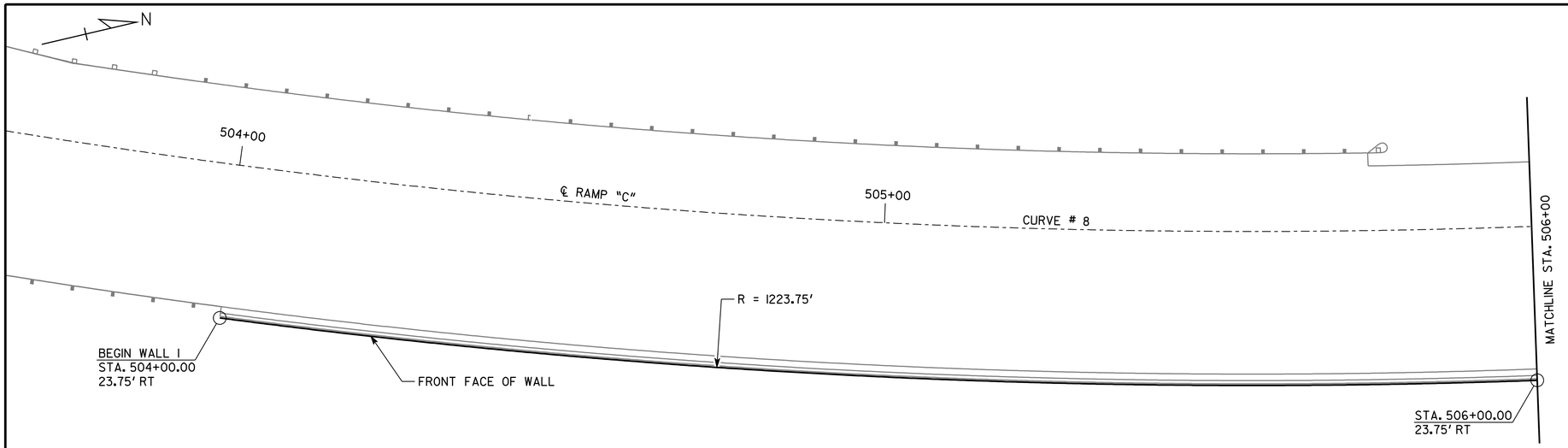
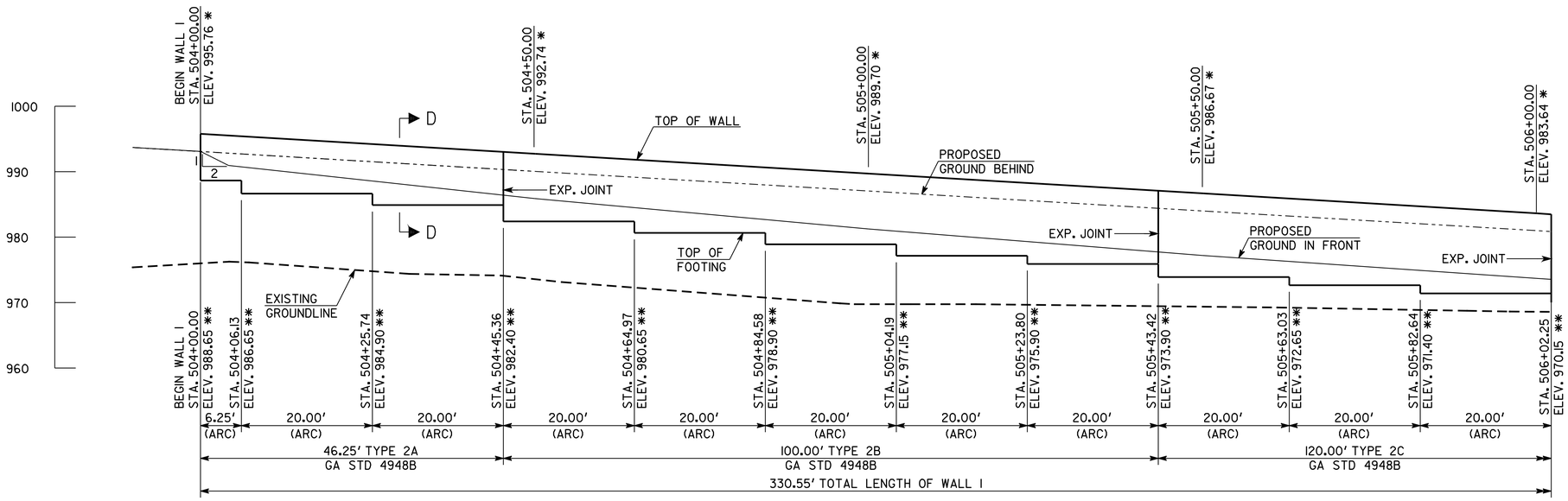
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	410	668



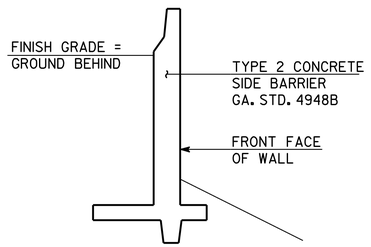
PLAN

SCALE: 1" = 10'-0"



ELEVATION

SCALE: 1" = 10'-0"
LOOKING AT
FRONT FACE OF WALL



SECTION D-D

SCALE: NONE

GEORGIA STANDARDS

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-69)
CONCRETE SIDE BARRIER, TYPE 2 ---------- GA. STD. 4948B (1-07)

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
621-4021	46.25	LF	CONCRETE SIDE BARRIER, TYPE 2A
621-4022	164.30	LF	CONCRETE SIDE BARRIER, TYPE 2B
621-4023	120.00	LF	CONCRETE SIDE BARRIER, TYPE 2C

THIS IS A DESIGN BUILD PROJECT AND QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

HORIZONTAL CURVE DATA

CURVE # 8
P.I. STA. 504+26.36
Δ = -24° 40' 33"
D = 4° 46' 29"
R = 1200.00'
T = 262.47'
L = 516.81'

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** ELEVATION AT TOP OF FOOTING, TYP.
(LOWER ELEVATION GIVEN AT STEPS.)

WALL NO. 1

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION
TYPE 2 SIDE BARRIER
RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSHNS-0006-00(043)

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

DRAWING NO. 31-02
WALL SHEET 1 OF 2

SCALE: AS SHOWN DECEMBER 2010

DESIGNED	BSB	CHECKED	ANZ	REVIEWED	WEI/WMD
DRAWN	CJH	DESIGN GROUP	AWB	APPROVED	PVL

DATE | REVISIONS | BY

RELEASED FOR CONSTRUCTION 12-02-2010

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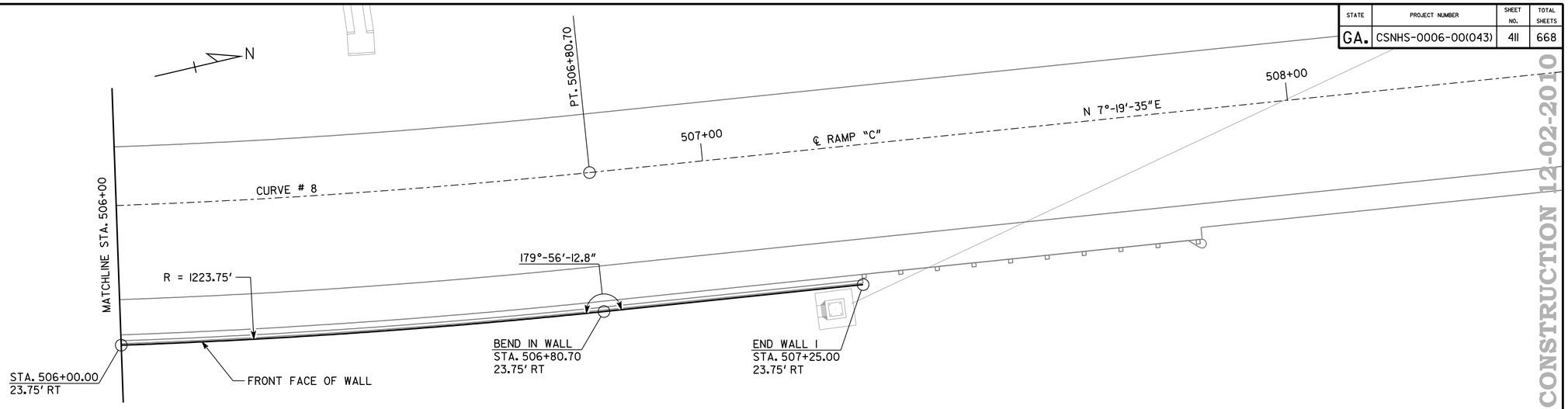
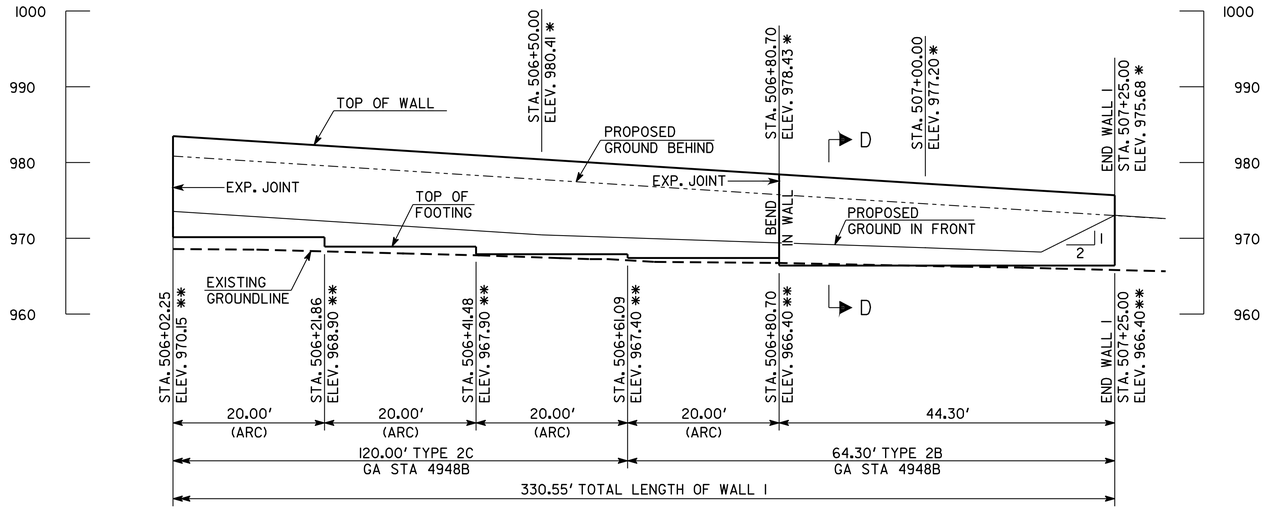
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	411	668



PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"
LOOKING AT
FRONT FACE OF WALL

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** ELEVATION AT TOP OF FOOTING, TYP. (LOWER ELEVATION GIVEN AT STEPS)
3. FOR WALL SECTION SEE 31-02

HORIZONTAL CURVE DATA

CURVE # 8
P.I. STA. 504+26.36
Δ = -24° 40' 33"
D = 4° 46' 29"
R = 1200.00'
T = 262.47'
L = 516.81'

WALL NO. 1

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION
TYPE 2 SIDE BARRIER
RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSHNS-0006-00(043)

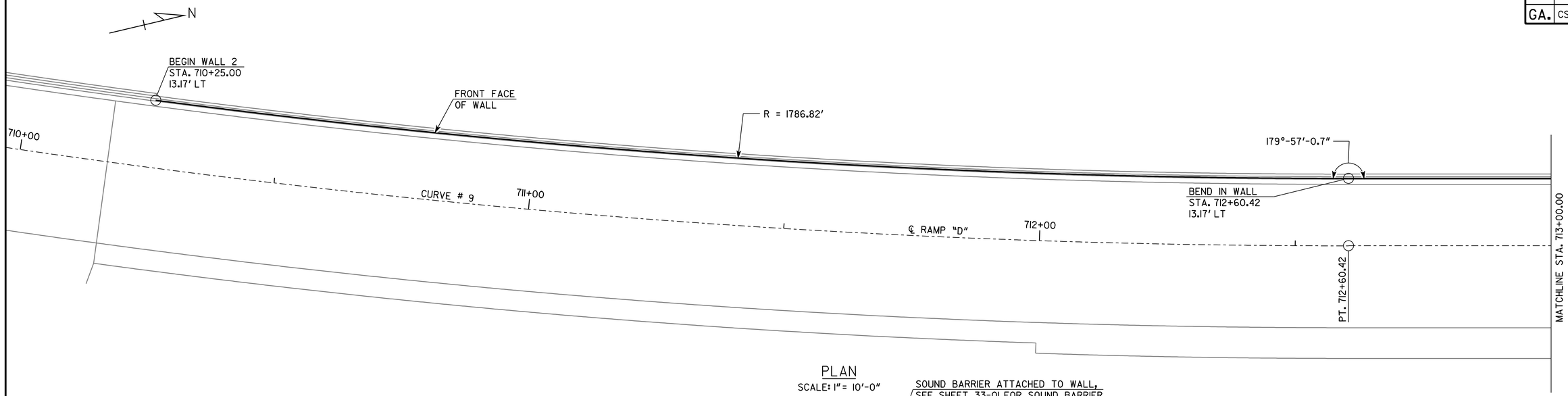
SCALE: AS SHOWN DECEMBER 2010

DRAWING NO.	REVISIONS	BY	DATE
31-03			
WALL SHEET 2 OF 2			

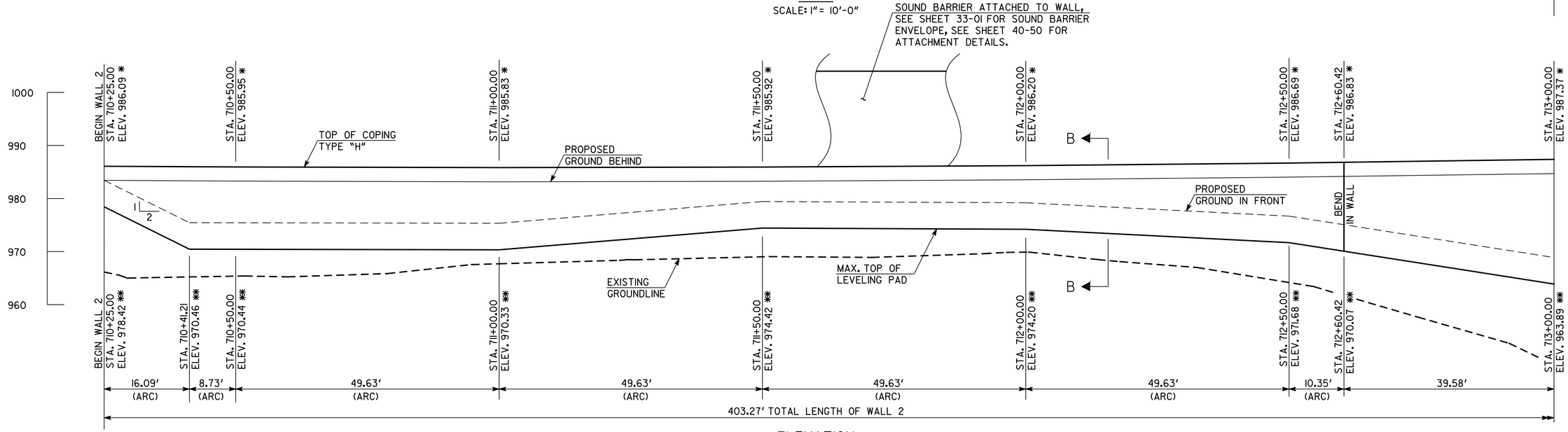
DESIGNED	CHECKED	REVIEWED
BSB	ANZ	WEI/WMD
DRAWN	DESIGN GROUP	APPROVED
CJH	AWB	PVL

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	412	668



PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"
LOOKING AT
BACK FACE OF WALL

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** MAXIMUM ELEVATION AT TOP OF LEVELING PAD, TYP.
3. FOR WALL SECTIONS SEE 31-10

WALL NO. 2 DESIGN DATA

COHESION	0 PSF
ANGLE OF INTERNAL FRICTION	32°
UNIT WEIGHT	120 PCF
COEFFICIENT OF SLIDING FRICTION	0.45
ALLOWABLE BEARING PRESSURE	3500 PSF

HORIZONTAL CURVE DATA

CURVE # 9
P.I. STA. 709+56.43
Δ = -19° 32' 39.7"
D = 3° 10' 59.2"
R = 1800.00'
T = 310.01'
L = 614.00'

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
627-1000	87	SF	MSE WALL FACE, 0 - 10 FT HT, WALL NO - 2
627-1010	3805	SF	MSE WALL FACE, 10 - 20 FT HT, WALL NO - 2
627-1020	2800	SF	MSE WALL FACE, 20 - 30 FT HT, WALL NO - 2
627-1160	403	LF	TRAFFIC BARRIER H, WALL NO - 2

THIS IS A DESIGN BUILD PROJECT AND QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

WALL NO. 2

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION - MSE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

DRAWING NO. 31-04
WALL SHEET 1 OF 2

DATE | REVISIONS | BY

SCALE: AS SHOWN DECEMBER 2010

DESIGNED BSB	CHECKED ANZ	REVIEWED WEI/WMD
DRAWN CJH	DESIGN GROUP AWB	APPROVED PVL

RELEASED FOR CONSTRUCTION 12-02-2010

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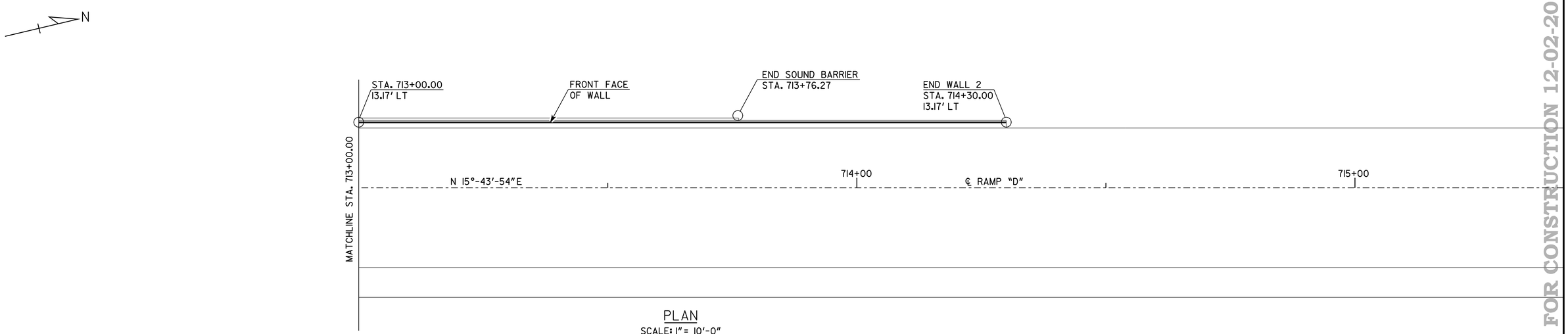
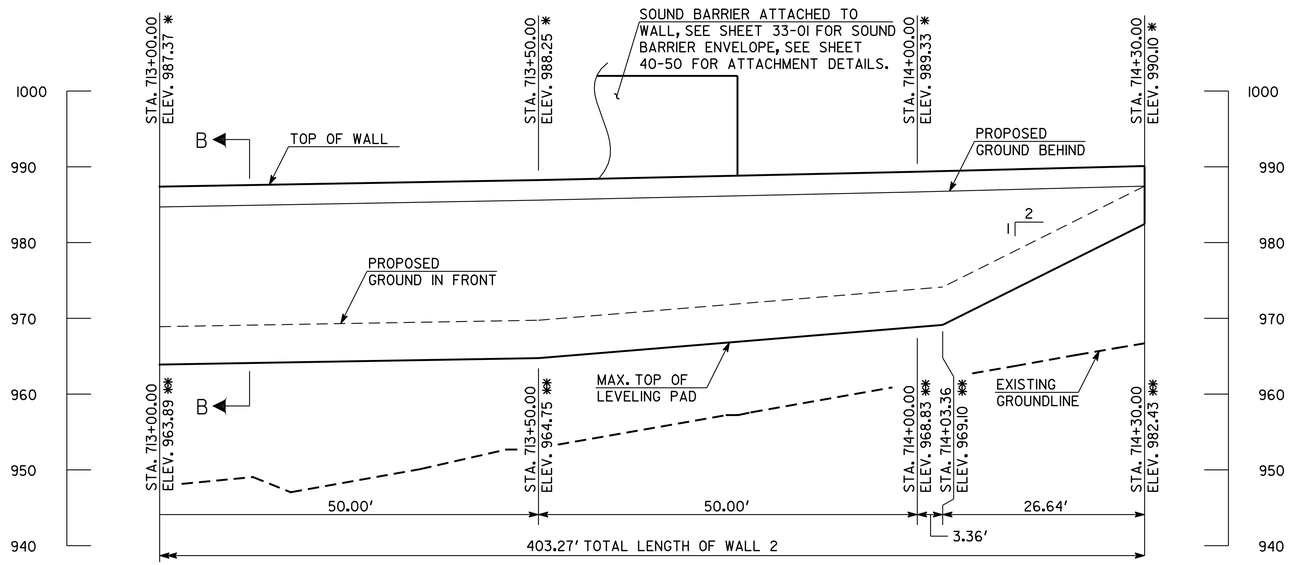
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	413	668

RELEASED FOR CONSTRUCTION 12-02-2010



PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"
LOOKING AT
BACK FACE OF WALL

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** MAXIMUM ELEVATION AT TOP OF LEVELING PAD, TYP.
3. FOR WALL SECTIONS SEE 31-10

WALL NO. 2

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

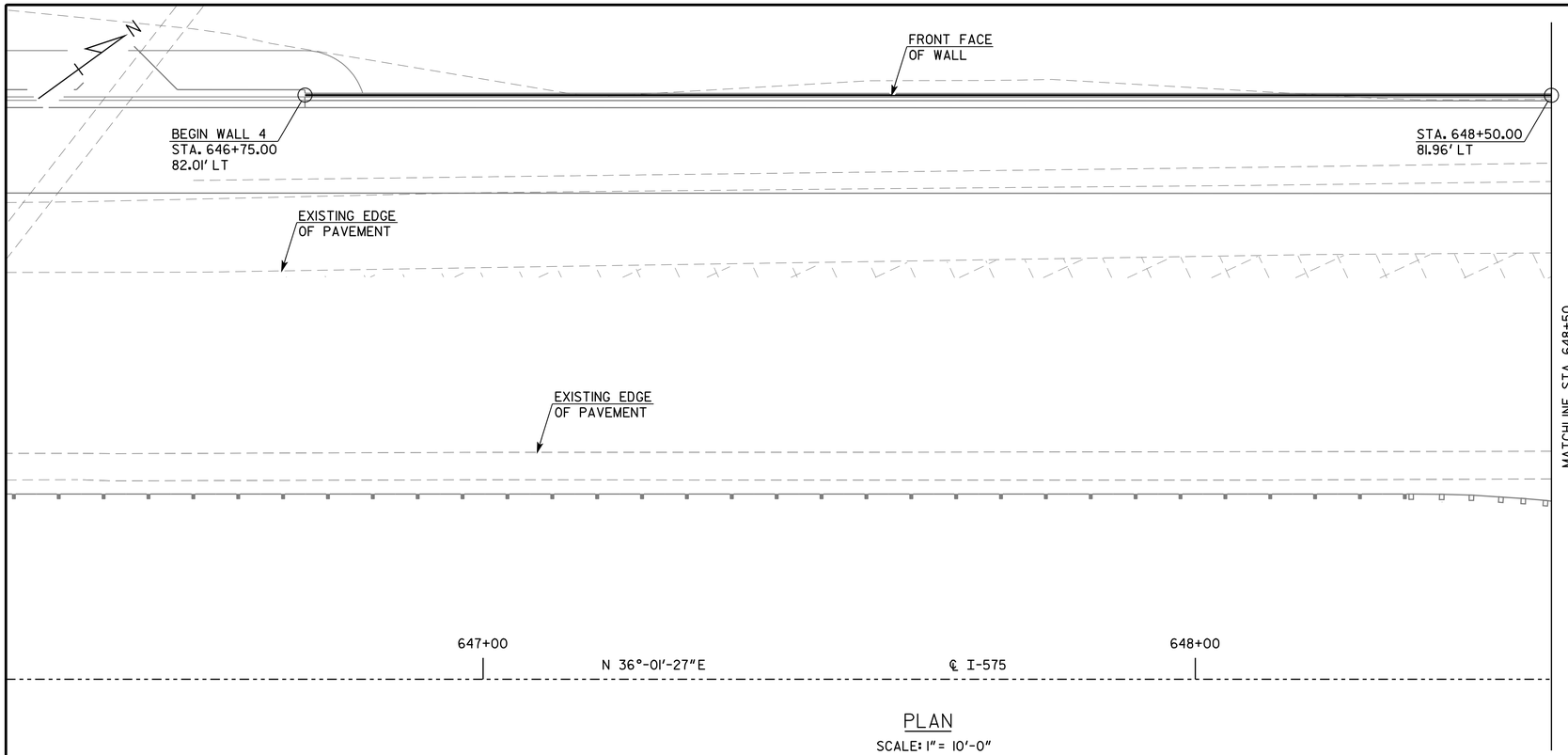
GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION - MSE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

DRAWING NO.	SCALE: AS SHOWN	DECEMBER 2010
31-05		
WALL SHEET 2 OF 2	DESIGNED BSB / DRAWN CJH / CHECKED ANZ / DESIGN GROUP AWB	REVIEWED WEI/WMD / APPROVED PVL

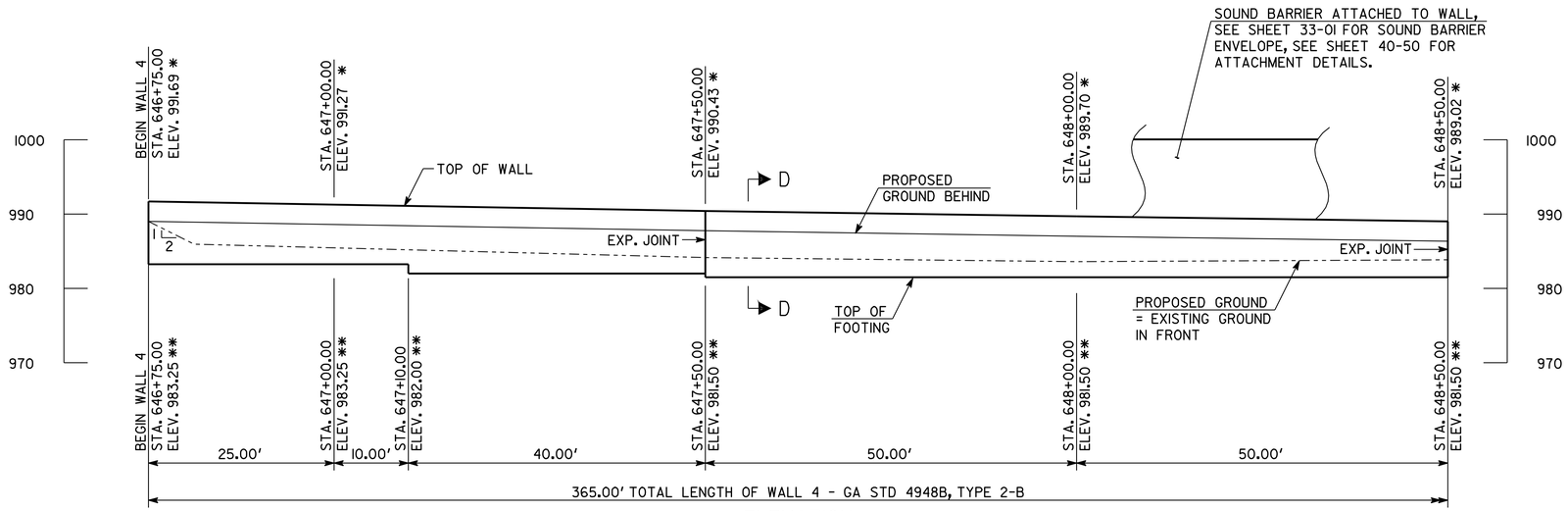
REVISIONS — DATE — BY

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	414	668



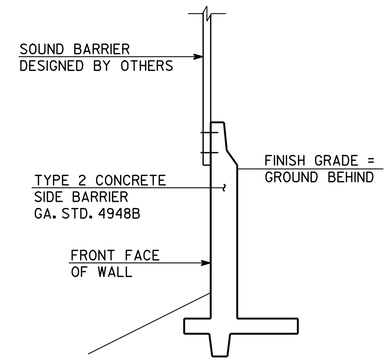
PLAN

SCALE: 1" = 10'-0"



ELEVATION

SCALE: 1" = 10'-0"
LOOKING AT
BACK FACE OF WALL



SECTION D-D

SCALE: NONE

GEORGIA STANDARDS

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

CONCRETE SIDE BARRIER, TYPE 2 ---------- GA. STD. 4948B (1-07)

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
621-4022	365.00	LF	CONCRETE SIDE BARRIER, TYPE 2B

THIS IS A DESIGN BUILD PROJECT AND QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** ELEVATION AT TOP OF FOOTING, TYP.
3. WALL 4 SHALL BE CONSTRUCTED ACCORDING TO GA DOT STD 4948B, BUT ENTIRE WALL SHALL BE TYPE 2-B AND LIMITED TO A MAX HEIGHT OF 7'-0" TO ALLOW FOR ATTACHMENT OF SOUND BARRIER.

WALL NO. 4

THE LPA GROUP LPA
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION
TYPE 2 SIDE BARRIER
RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSHNS-0006-00(043)

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

DRAWING NO. 31-06
WALL SHEET 1 OF 2

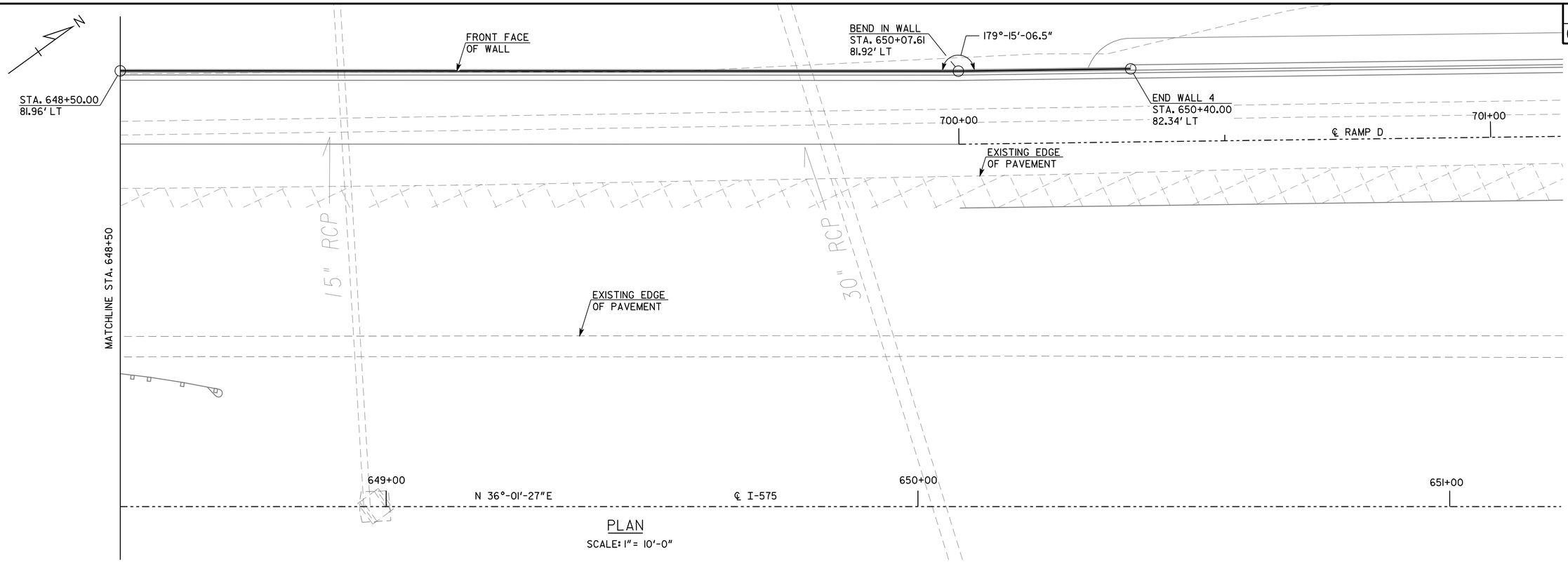
SCALE: AS SHOWN DECEMBER 2010

BY	REVISIONS	DATE

DESIGNED BSB CHECKED ANZ REVIEWED WEI/WMD
DRAWN CJH DESIGN GROUP AWB APPROVED PVL

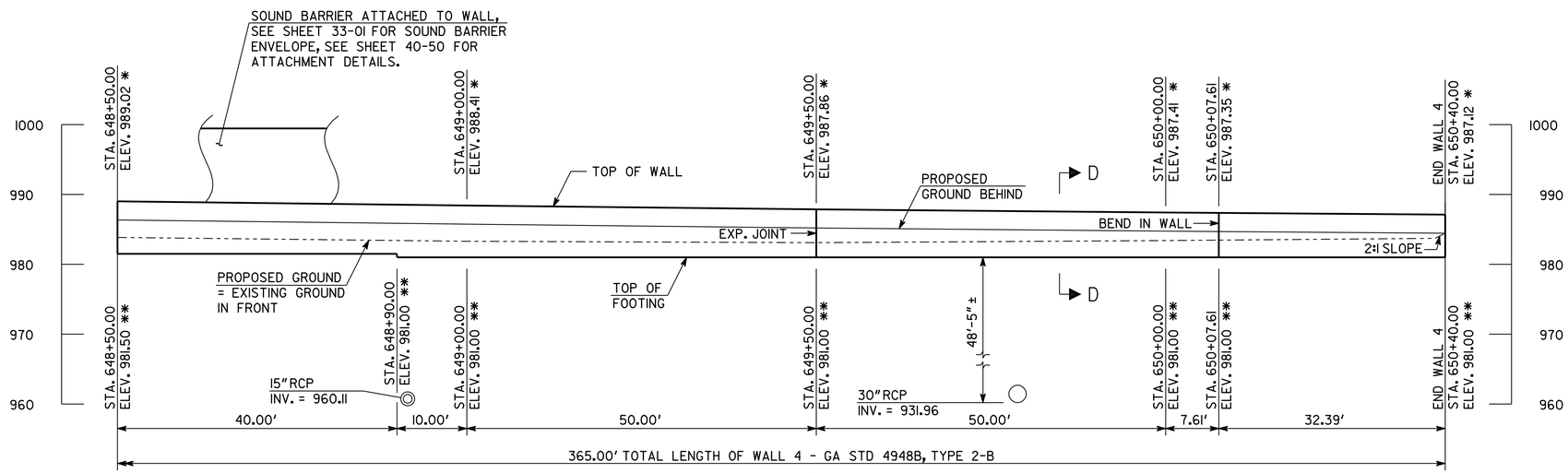
RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	415	668



PLAN

SCALE: 1" = 10'-0"



ELEVATION

SCALE: 1" = 10'-0"
LOOKING AT
BACK FACE OF WALL

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** ELEVATION AT TOP OF FOOTING, TYP.
3. WALL 4 SHALL BE CONSTRUCTED ACCORDING TO GA DOT STD 4948B, BUT ENTIRE WALL SHALL BE TYPE 2-B AND LIMITED TO A MAX HEIGHT OF 7'-0" TO ALLOW FOR ATTACHMENT OF SOUND BARRIER.
4. FOR WALL SECTION SEE 31-07

WALL NO. 4

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION
TYPE 2 SIDE BARRIER
RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSHNS-0006-00(043)

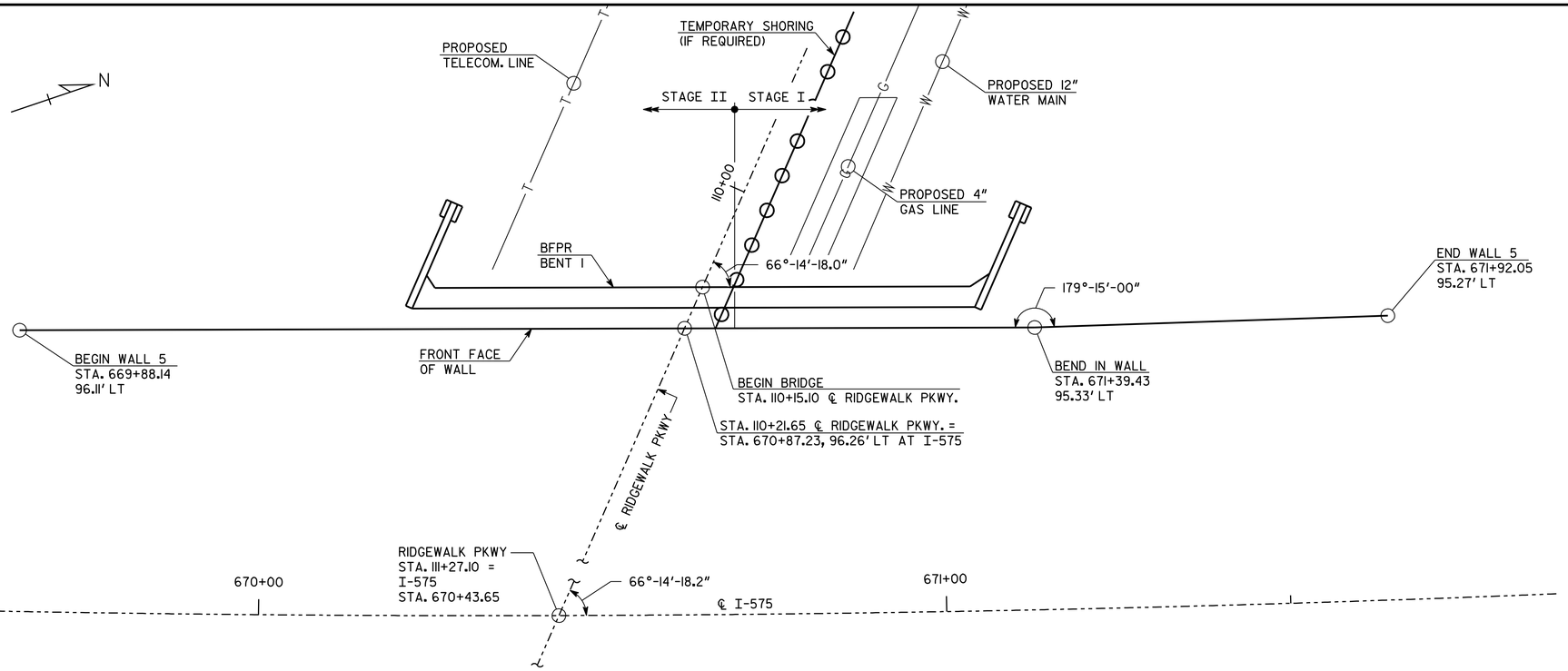
SCALE: AS SHOWN DECEMBER 2010

DRAWING NO.	REVISIONS	BY	DATE
31-07			
WALL SHEET 2 OF 2			

DESIGNED	CHECKED	REVIEWED
BSB	ANZ	WEI/WMD
DRAWN	DESIGN GROUP	APPROVED
CJH	AWB	PVL

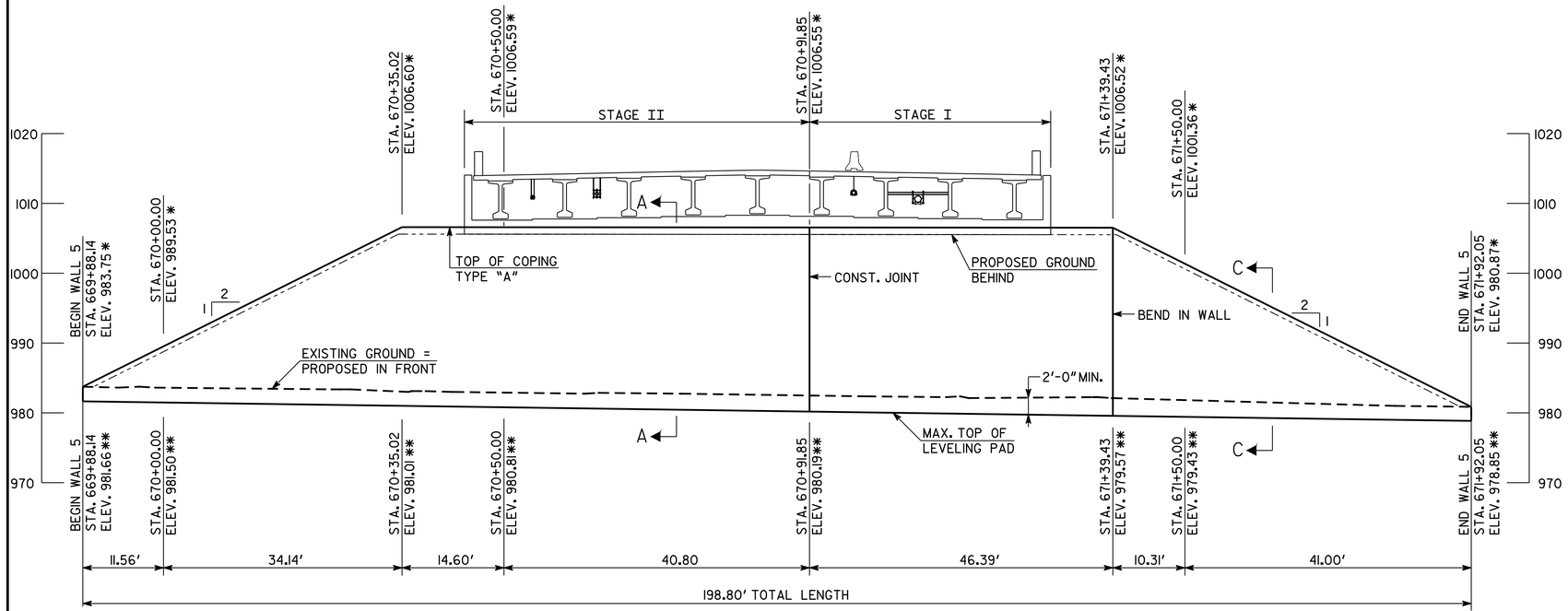
RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	416	668



PLAN

SCALE: 1" = 10'-0"



ELEVATION

SCALE: 1" = 10'-0"

LOOKING AT FRONT FACE OF WALL

WALL NO. 5 DESIGN DATA

COHESION ---------- 0 PSF

ANGLE OF INTERNAL FRICTION ---------- 32°

UNIT WEIGHT ---------- 120 PCF

COEFFICIENT OF SLIDING FRICTION ---------- 0.40

ALLOWABLE BEARING PRESSURE ---------- 3500 PSF

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
627-1000	192	SF	MSE WALL FACE, 0 - 10 FT HT, WALL NO - 5
627-1010	601	SF	MSE WALL FACE, 10 - 20 FT HT, WALL NO - 5
627-1020	3257	SF	MSE WALL FACE, 20 - 30 FT HT, WALL NO - 5
627-1100	199	LF	COPING A, WALL NO - 5

THIS IS A DESIGN BUILD PROJECT AND QUANTITIES PROVIDED ARE FOR INFORMATION ONLY.

I-575 HORIZONTAL CURVE DATA

P.I. STA. 669+95.68
Δ = 32° 46' 44.0"
D = 1° 30' 00.00"
R = 3819.72'
T = 1123.43'
L = 2185.25'

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** MAXIMUM ELEVATION AT TOP OF LEVELING PAD, TYP.
3. FOR WALL SECTIONS SEE 31-10

WALL NO. 5

THE LPA GROUP

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION - MSE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

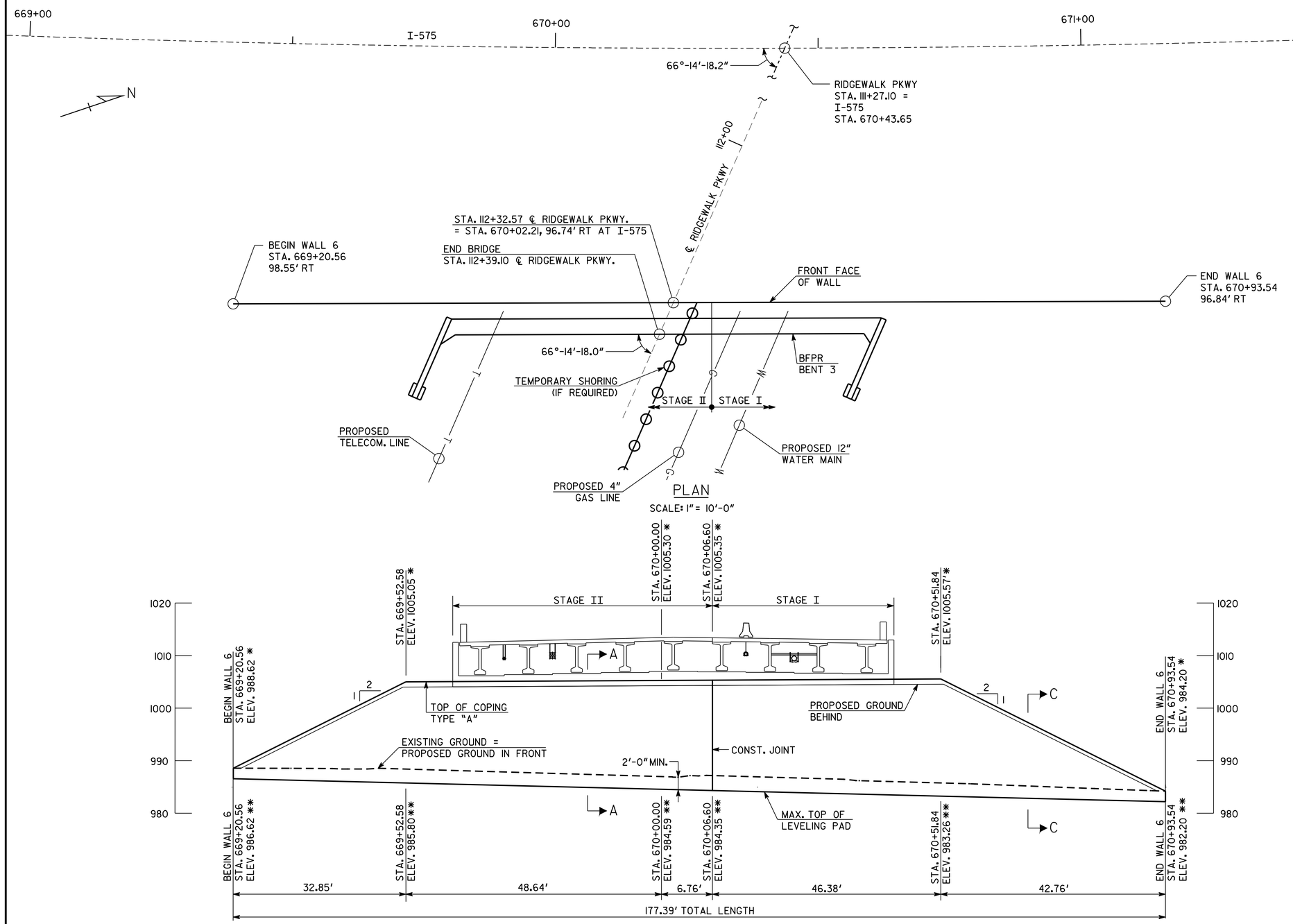
DRAWING NO.	SCALE: AS SHOWN	DECEMBER 2010
31-08		
WALL SHEET 1 OF 1	DESIGNED BSB / DRAWN CJH / CHECKED ANZ / DESIGN GROUP AWB	REVIEWED WEI/WMD / APPROVED PVL

BY	REVISIONS	DATE

RELEASED FOR CONSTRUCTION 12-02-2010

12/6/2010 12:30:10 PM Y:\Roadways\07400004\WALLS\W05 01-PE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	417	668



WALL NO. 6 DESIGN DATA

COHESION	0 PSF
ANGLE OF INTERNAL FRICTION	32°
UNIT WEIGHT	120 PCF
COEFFICIENT OF SLIDING FRICTION	0.40
ALLOWABLE BEARING PRESSURE	3500 PSF

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
627-1000	193	SF	MSE WALL FACE, 0 - 10 FT HT, WALL NO - 6
627-1010	1069	SF	MSE WALL FACE, 10 - 20 FT HT, WALL NO - 6
627-1020	1722	SF	MSE WALL FACE, 20 - 30 FT HT, WALL NO - 6
627-1100	177	LF	COPING A, WALL NO - 6

THIS IS A DESIGN BUILD PROJECT AND QUANTITIES PROVIDED ARE FOR INFORMATION ONLY.

I-575 HORIZONTAL CURVE DATA

CURVE I-575
P.I. STA. 669+95.68
Δ = 32° 46' 44.0"
D = 1° 30' 00.00"
R = 3819.72'
T = 1123.43'
L = 2185.25'

NOTES:
1.* ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2.** MAXIMUM ELEVATION AT TOP OF LEVELING PAD, TYP.
3. FOR WALL SECTIONS SEE 31-10

RELEASED FOR CONSTRUCTION 12-02-2010

WALL NO. 6

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL PLAN AND ELEVATION - MSE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

DRAWING NO. 31-09
WALL SHEET 1 OF 1

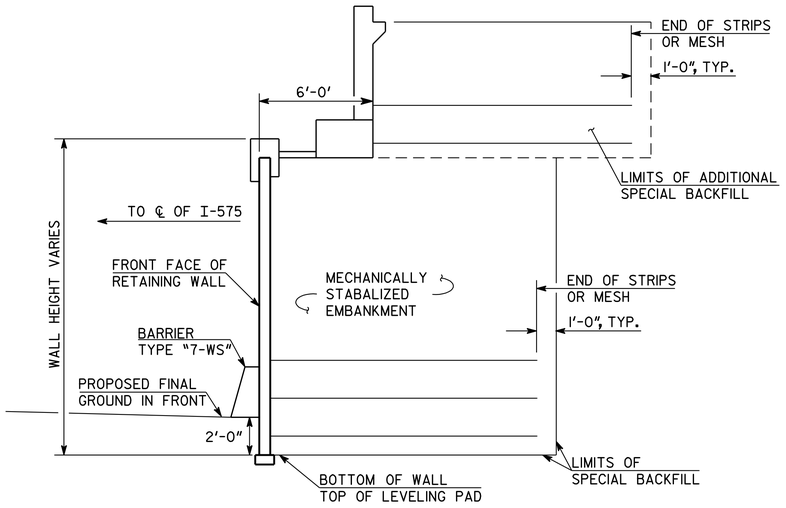
DATE | REVISIONS | BY

SCALE: AS SHOWN DECEMBER 2010

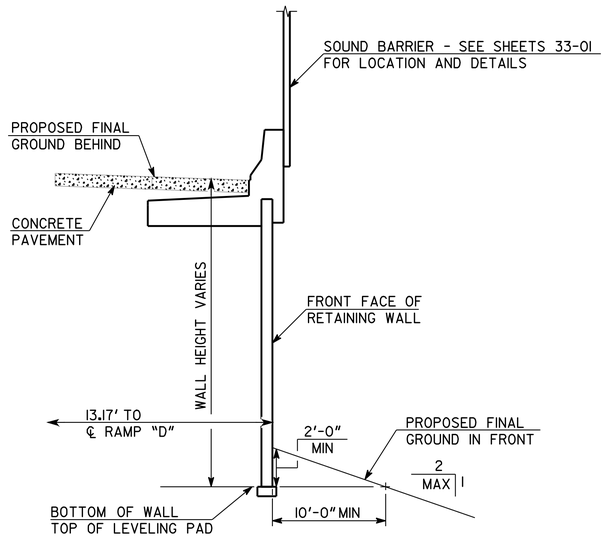
DESIGNED BSB CHECKED ANZ REVIEWED WEI/WMD
DRAWN CJH DESIGN GROUP AWB APPROVED PVL

12/6/2010 12:30:21 PM Y:\Roadways\07400004\WALLS\W06_01-PE.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	418	668

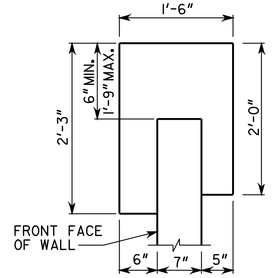


SECTION A-A

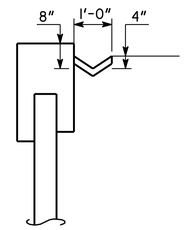


SECTION B-B

MSE FILL WALL



C.I.P. COPING, A



V DITCH DETAIL

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.

GRAFFITI PROOF COATING - ALL MSE WALL PANELS SHALL HAVE A GRAFFITI PROOF COATING AS PER SECTION 838 OF THE GEORGIA DOT SPECIFICATIONS.

CONCRETE COVER - MAINTAIN 2 INCHES COVER MINIMUM ON ALL REINFORCING STEEL.

STAGE CONSTRUCTION - THE WALL MAY BE CONSTRUCTED IN STAGES TO IMPROVE THE UNDERLYING SOIL BEARING CAPACITY. CONSTRUCT WALL TO A HEIGHT RESULTING IN A SOIL BEARING PRESSURE OF 3500 POUNDS PER SQUARE FOOT, WAIT 30 DAYS, THEN CONSTRUCT ADDITIONAL STAGES OR REMAINDER OF WALL.

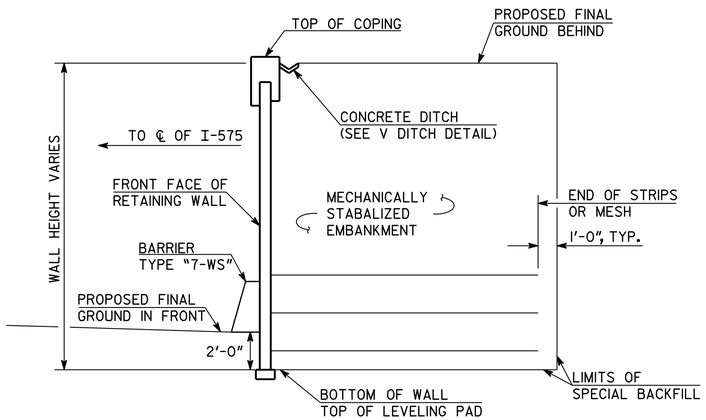
TEMPORARY SHORING - PROVIDE TEMPORARY SHORING AS NECESSARY FOR WALL CONSTRUCTION.

JOINTS - PROVIDE ONE INCH EXPANSION JOINT IN COPING OR BARRIER AT EVERY FOURTH PANEL.

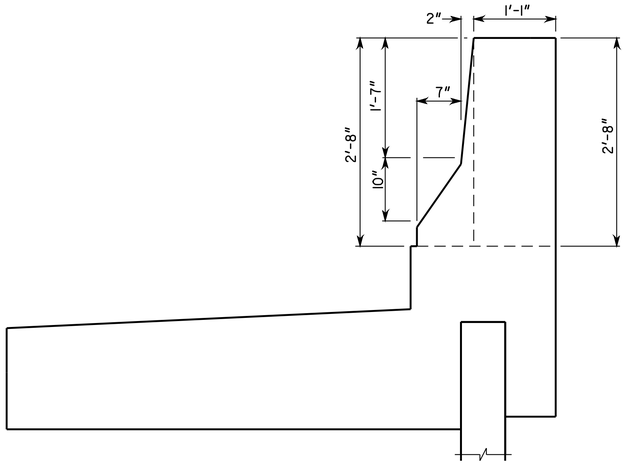
WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

WALL PLANS - THE RETAINING WALL IS CONSIDERED A CONTRACTOR DESIGN. THESE WALL PLANS ARE CONCEPTUAL AND ARE FOR ILLUSTRATIVE PURPOSES ONLY. EXACT NUMBER OF SOIL REINFORCING STRIPS, THEIR LOCATIONS AND LENGTHS SHALL BE PROVIDED BY THE CONTRACTOR FOR THE WALL SYSTEM USED. THE PRESENCE OF THESE CONCEPTUAL PLANS IN THE CONTRACT DOCUMENTS IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING A WALL SYSTEM WHICH PROVIDES STRUCTURAL ADEQUACY, IN ACCORDANCE WITH SECTION 627 OF THE GEORGIA DOT SPECIFICATIONS, AT THE BID PRICE.

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 THE COST OF JOINT FILLERS, NEOPRENE PADS, WATERPROOFING AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.



SECTION C-C



C.I.P. TRAFFIC BARRIER, TYPE H

WALL 2, 5, & 6

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

WALL SECTIONS AND DETAILS - MSE

RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSHNS-0006-00(043)

DRAWING NO.	REVISIONS	BY	DATE
31-10			
WALL SHEET 1 OF 1			

SCALE: NONE DECEMBER 2010

DESIGNED BSB CHECKED ANZ REVIEWED WEI/WMD
DRAWN CJH DESIGN GROUP AWB APPROVED PVL

RELEASED FOR CONSTRUCTION 12-02-2010

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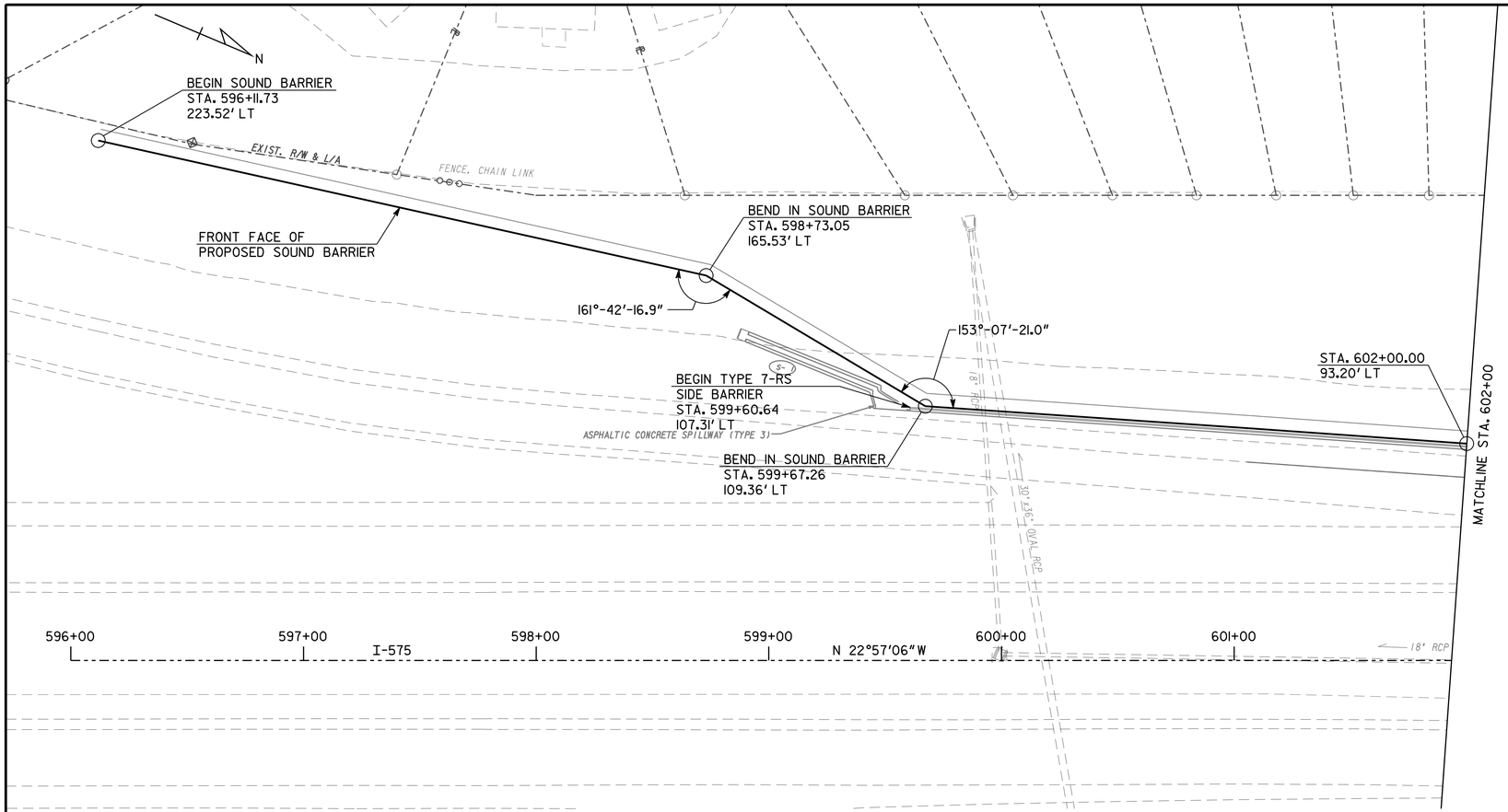
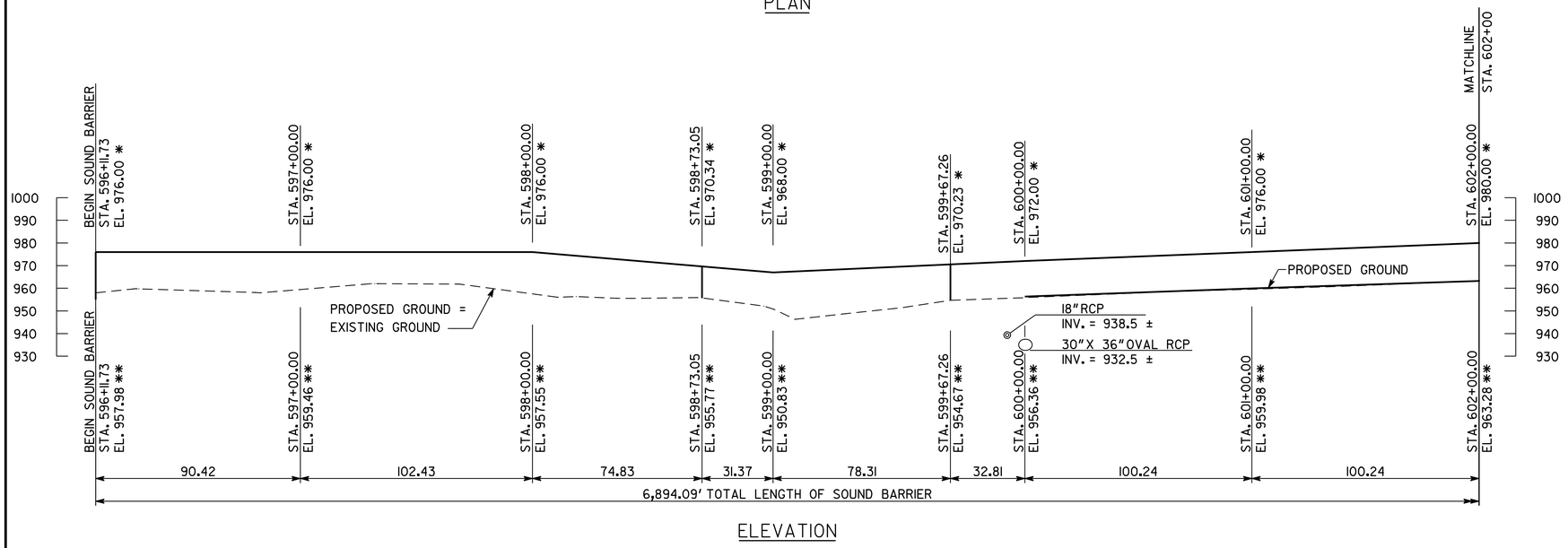
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	419	668



PLAN



ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

DATE | REVISIONS | BY

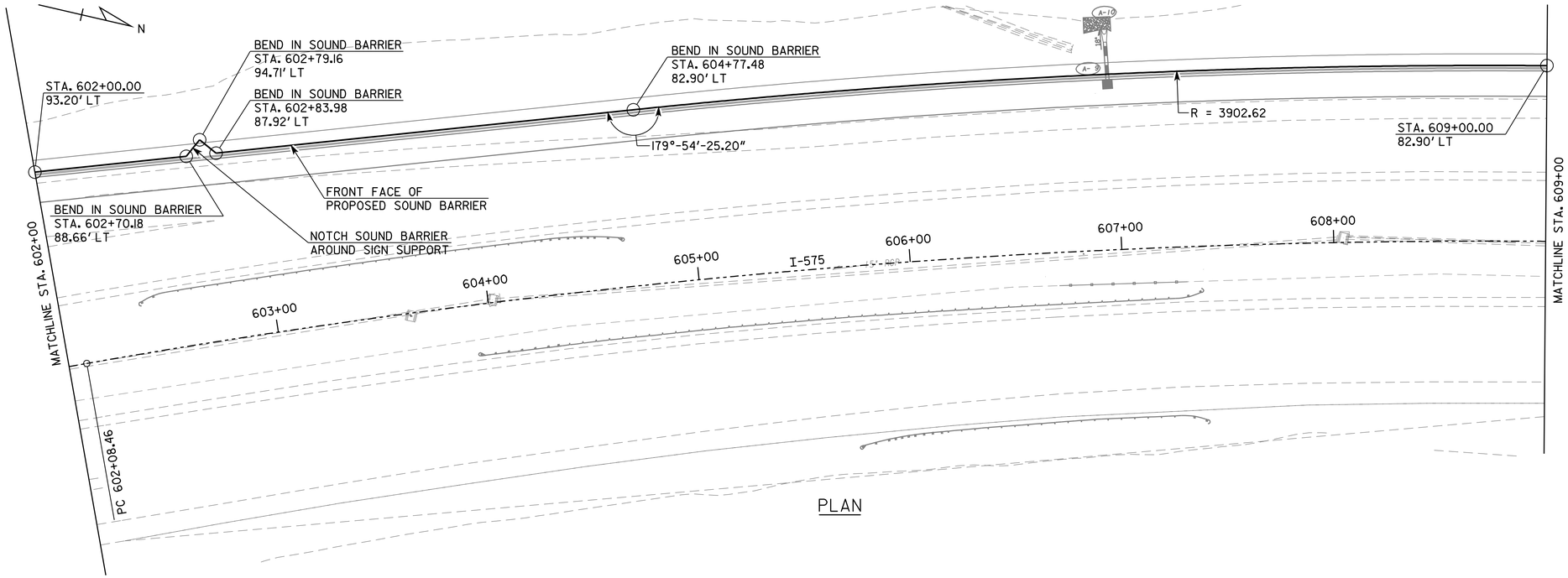
DRAWING NO. 33-01
WALL SHEET 10F 10

SCALE: 1" = 30'-0" DECEMBER 2010

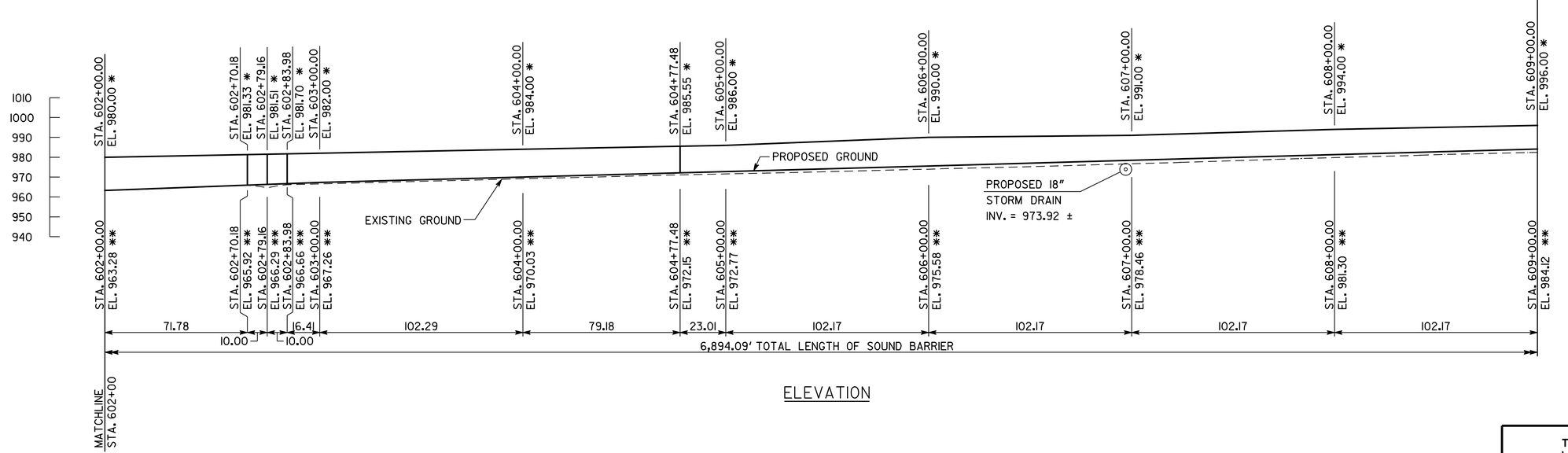
DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN BSB | DESIGN GROUP AWB | APPROVED PVL

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	420	668



PLAN



ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

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DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

REVISIONS	BY	DATE

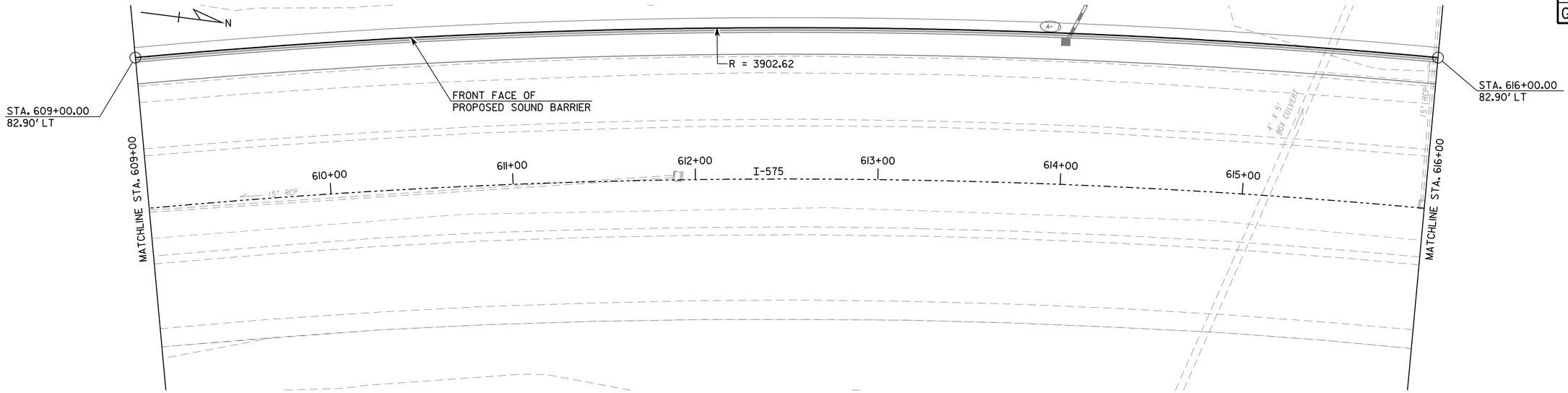
DRAWING NO. 33-02
WALL SHEET 2 OF 10

SCALE: 1" = 30'-0" DECEMBER 2010

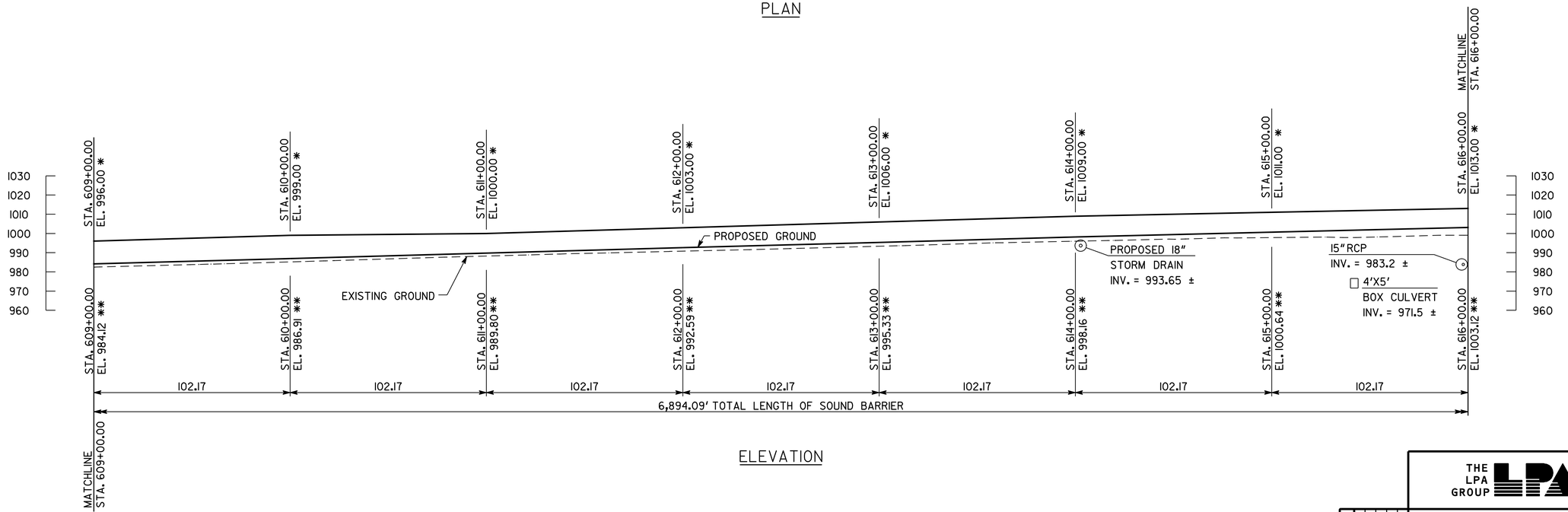
DESIGNED	BSB	CHECKED	ANZ	REVIEWED	WEI/WMD
DRAWN	BSB	DESIGN GROUP	AWB	APPROVED	PVL

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	421	668



PLAN



ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

DATE | REVISIONS | BY

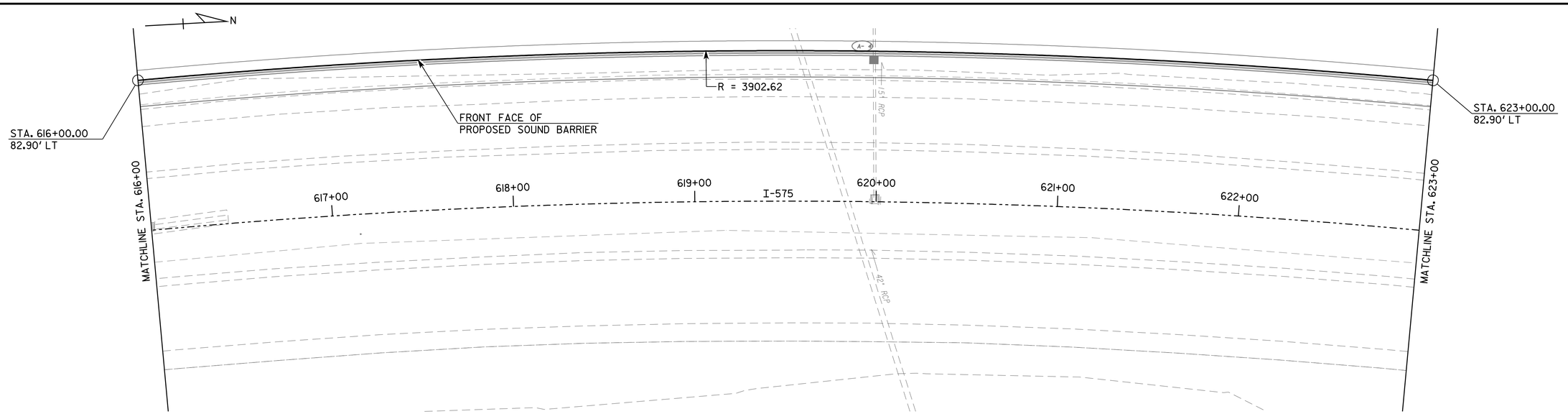
DRAWING NO. 33-03
WALL SHEET 3 OF 10

SCALE: 1" = 30'-0" DECEMBER 2010

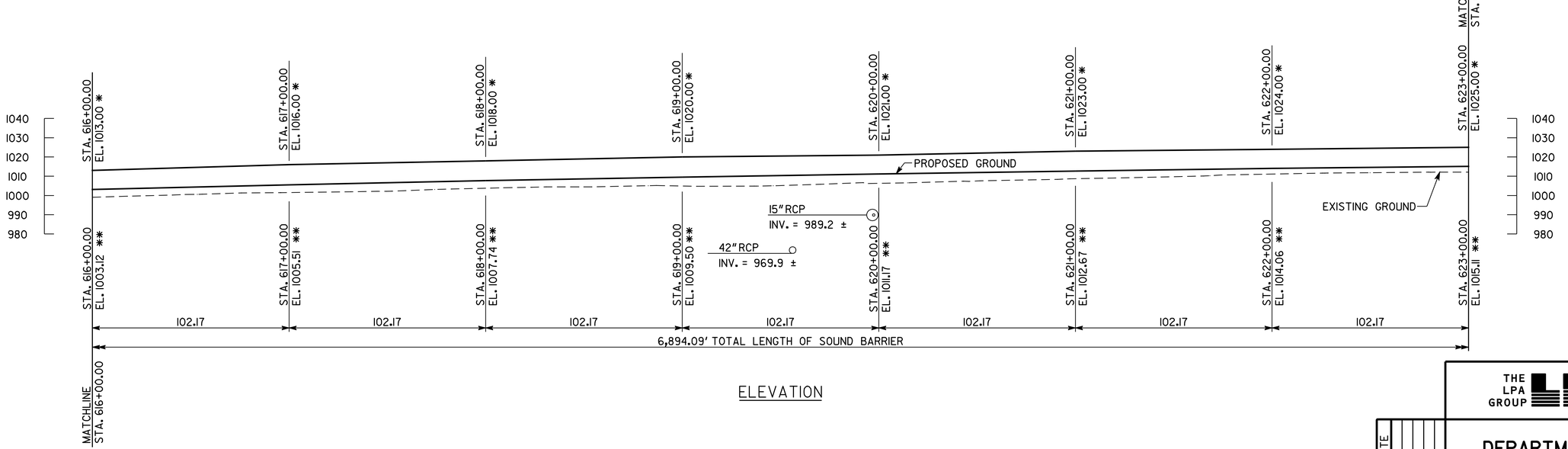
DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN BSB | DESIGN GROUP AWB | APPROVED PVL

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	422	668



PLAN



ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

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DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

SCALE: 1" = 30'-0" DECEMBER 2010

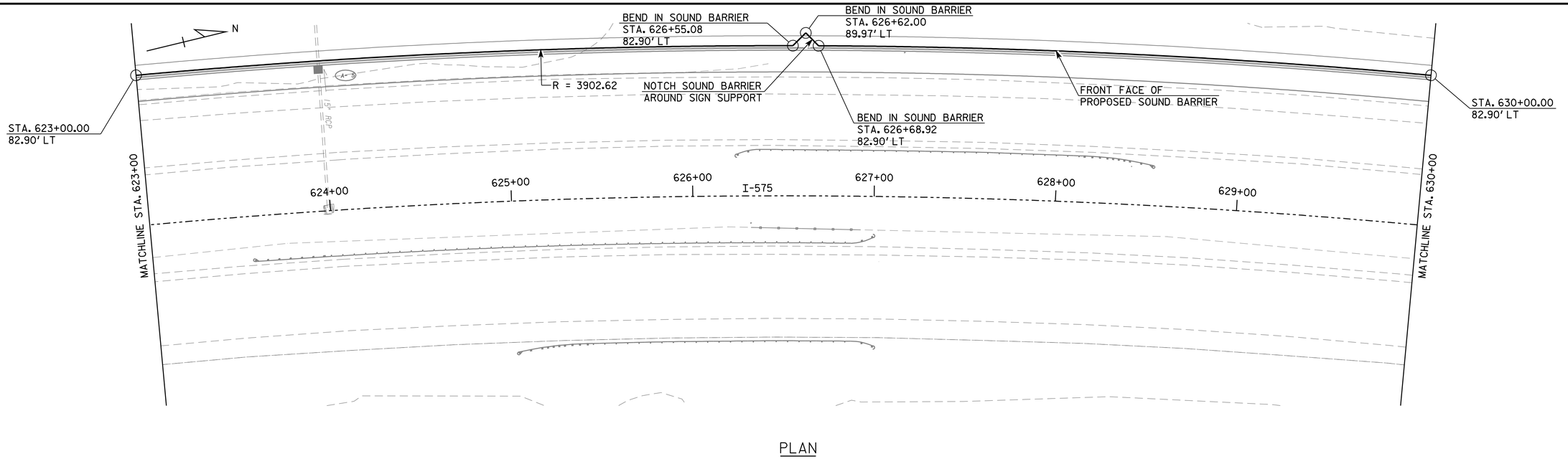
DRAWING NO.	WALL SHEET
33-04	4 OF 10

BY	REVISIONS	DATE

DESIGNED	CHECKED	REVIEWED
BSB	ANZ	WEI/WMD
DRAWN	DESIGN GROUP	APPROVED
BSB	AWB	PVL

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	423	668



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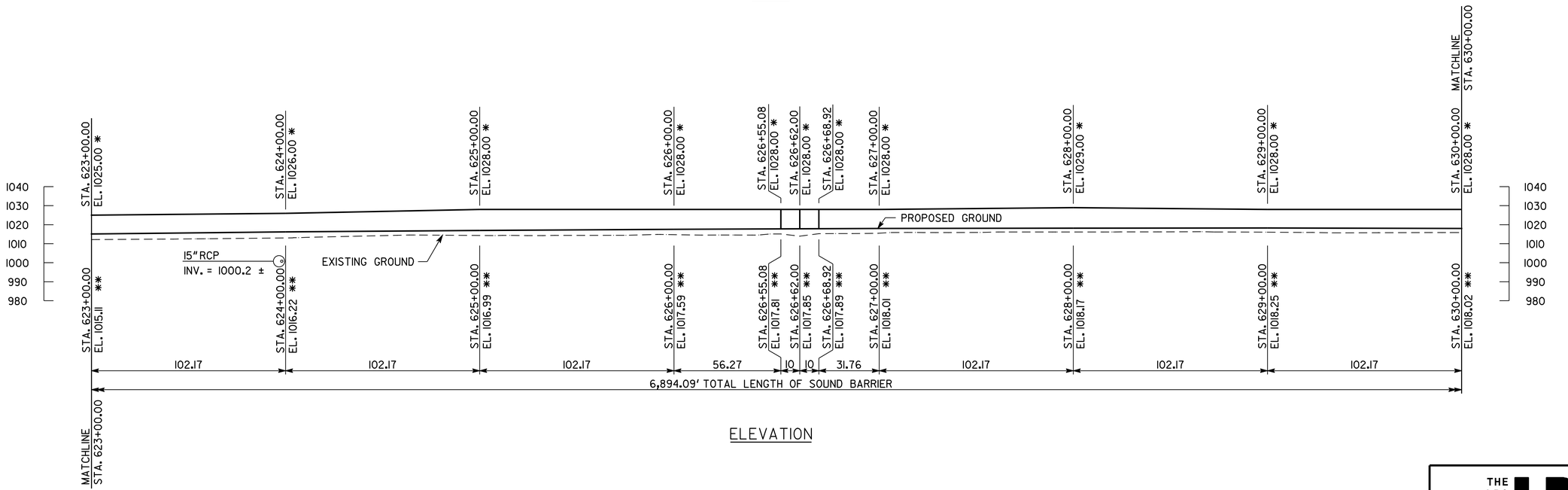

ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

RELEASED FOR CONSTRUCTION 12-02-2010

THE LPA GROUP LPA
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DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

BY	REVISIONS	DATE

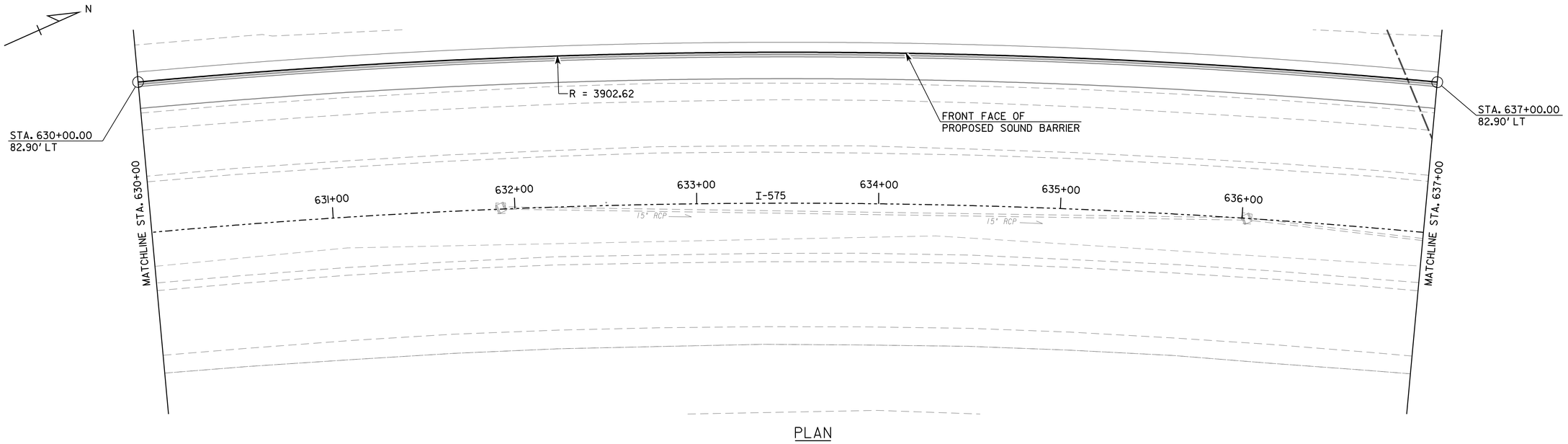
DRAWING NO. 33-05
WALL SHEET 5 OF 10

SCALE: 1" = 30'-0" DECEMBER 2010

DESIGNED	BSB	CHECKED	ANZ	REVIEWED	WEI/WMD
DRAWN	BSB	DESIGN GROUP	AWB	APPROVED	PVL

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	424	668

RELEASED FOR CONSTRUCTION 12-02-2010



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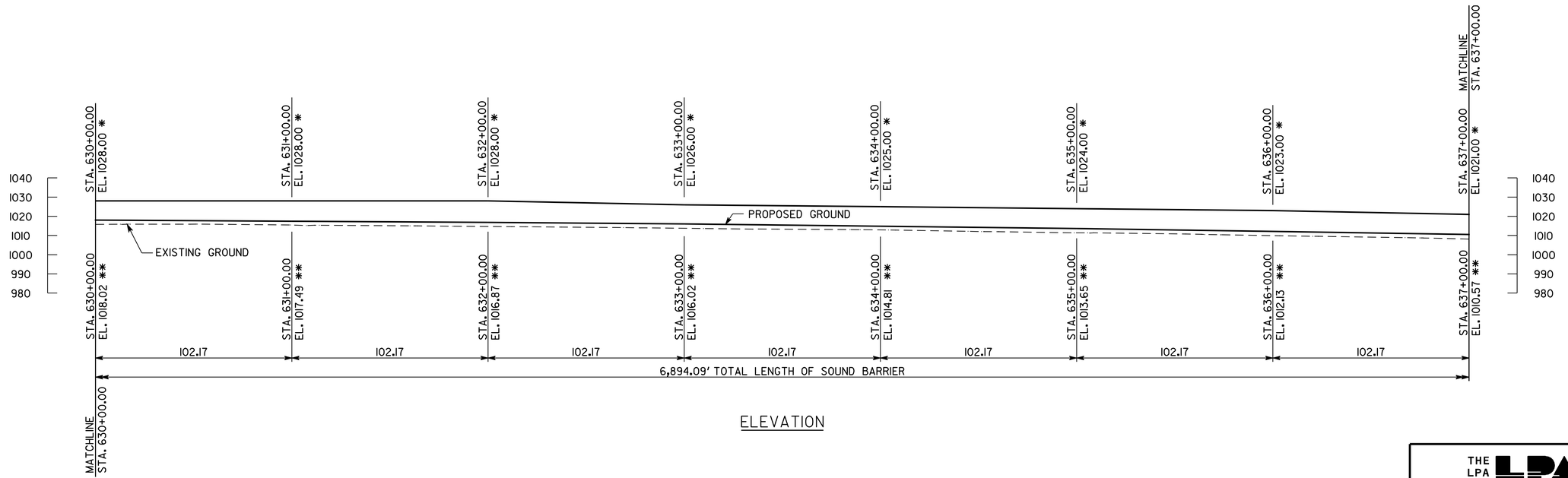

ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

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PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

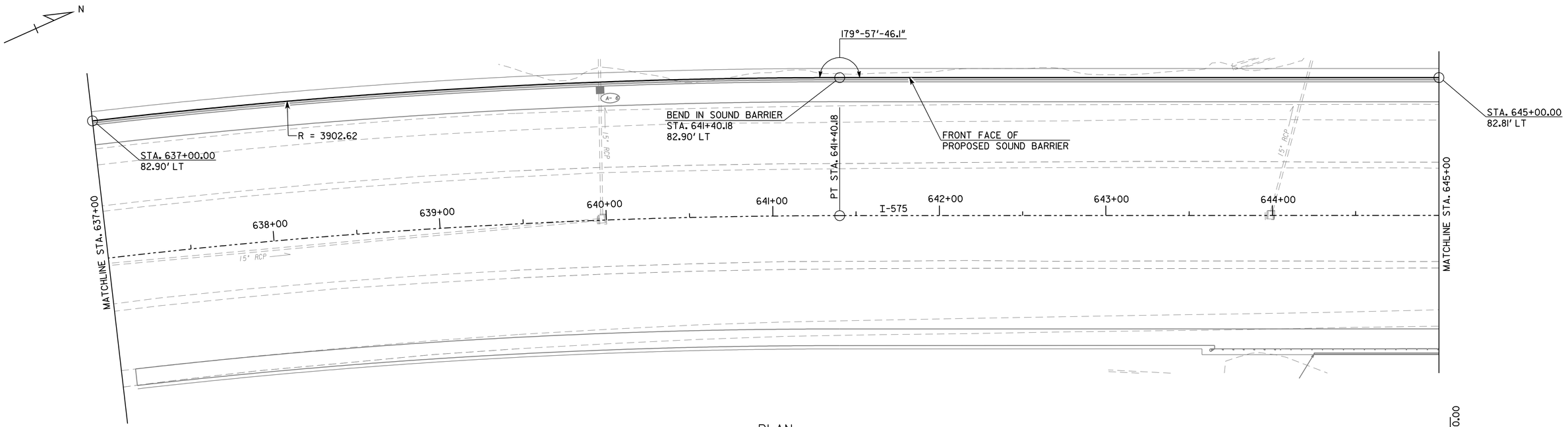
REVISIONS	BY	DATE

DRAWING NO. 33-06
WALL SHEET 6 OF 10

SCALE: 1" = 30'-0" DECEMBER 2010

DESIGNED	CHECKED	REVIEWED
BSB	ANZ	WEI/WMD
DRAWN	DESIGN GROUP	APPROVED
BSB	AWB	PVL

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	425	668



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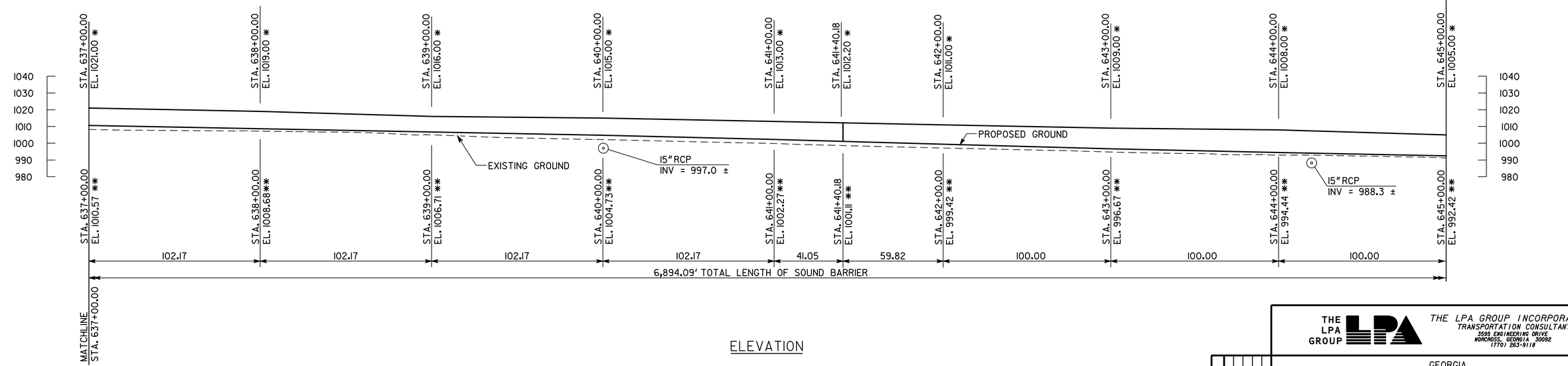

ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

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SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

DRAWING NO. 33-07
WALL SHEET 7 OF 10

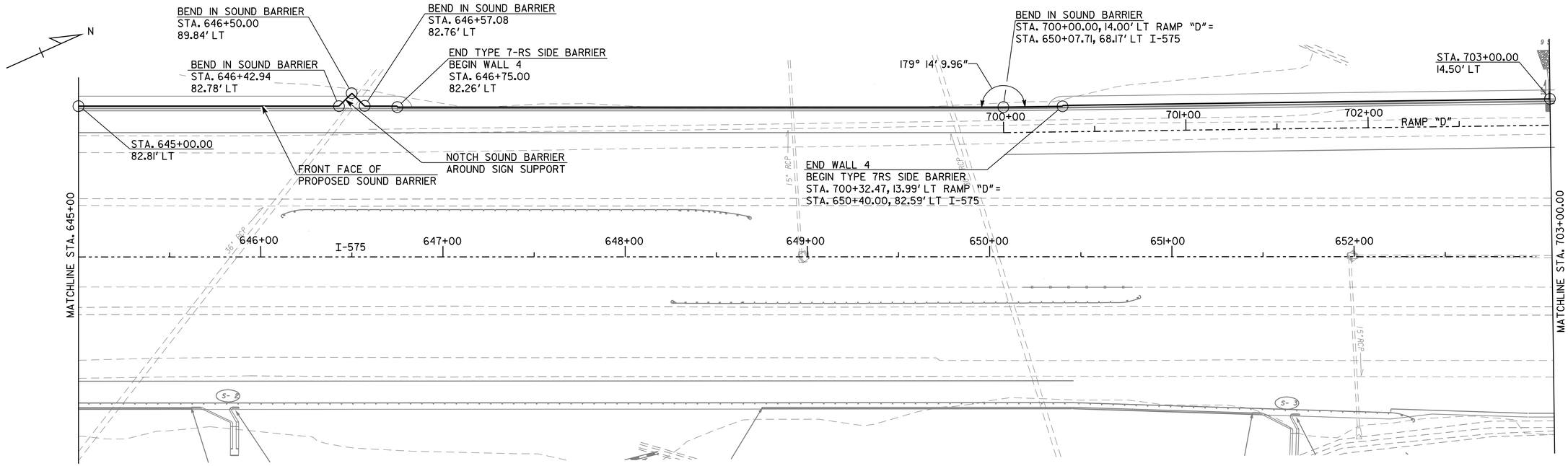
SCALE: 1" = 30'-0" DECEMBER 2010

DESIGNED	BSB	CHECKED	ANZ	REVIEWED	WEI/WMD
DRAWN	BSB	DESIGN GROUP	AWB	APPROVED	PVL

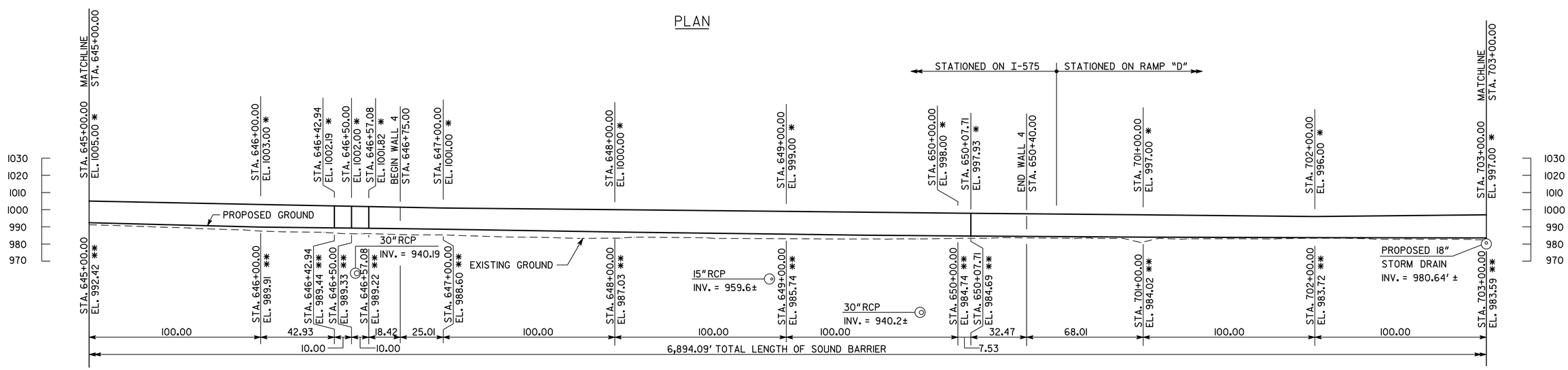
DATE | REVISIONS | BY

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	426	668



PLAN



ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 283-9118

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

SCALE: 1" = 30'-0" DECEMBER 2010

DRAWING NO.	DESIGNED BSB	CHECKED ANZ	REVIEWED WEI/WMD
33-08	DRAWN BSB	DESIGN GROUP AWB	APPROVED PVL
WALL SHEET 8 OF 10			

DATE | REVISIONS | BY

RELEASED FOR CONSTRUCTION 12-02-2010

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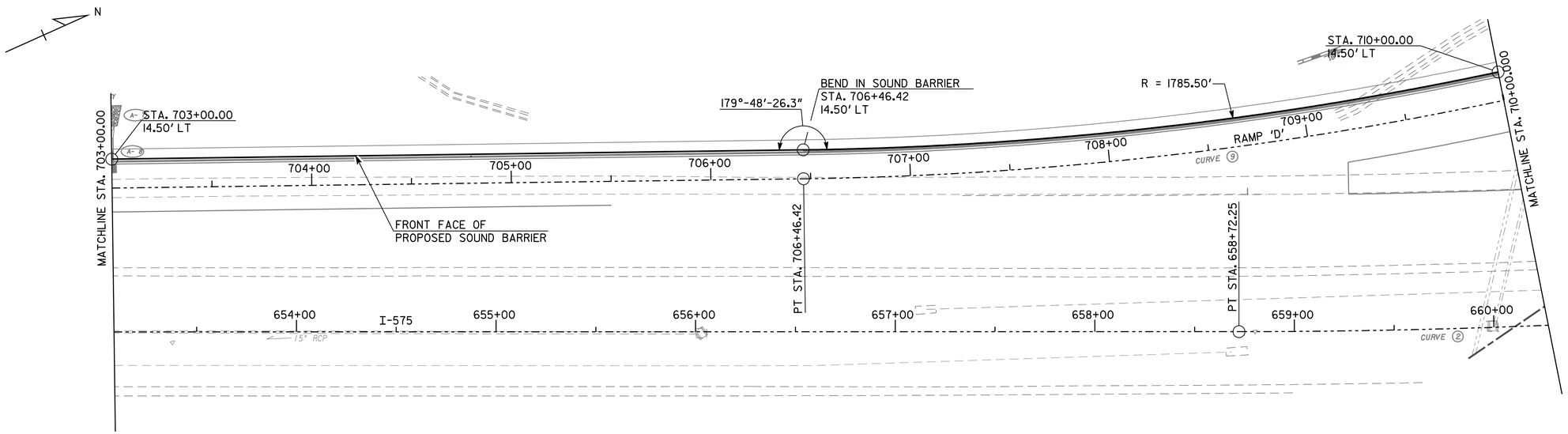
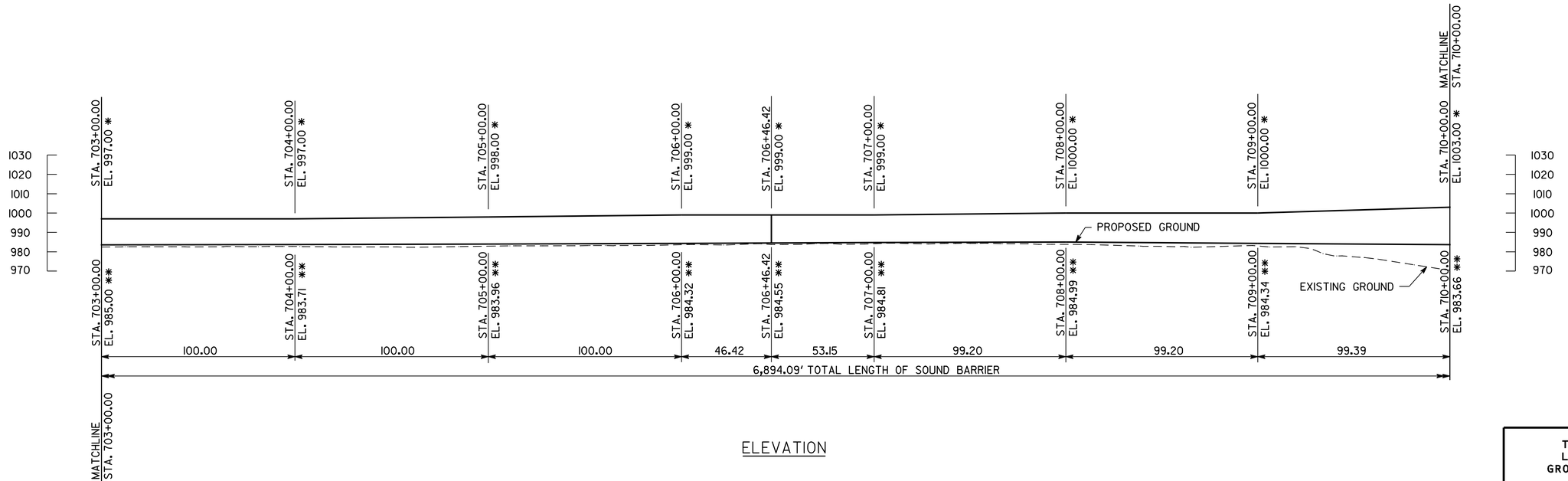
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	427	668



PLAN



ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSHNS-0006-00(043)

SCALE: 1" = 30'-0" DECEMBER 2010

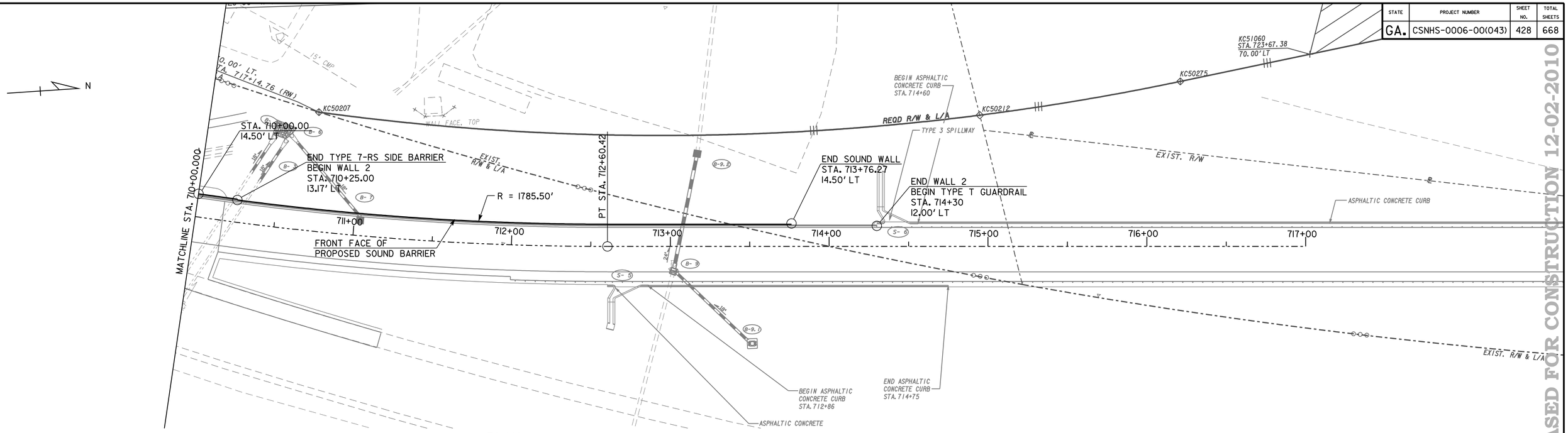
DRAWING NO.	WALL SHEET
33-09	9 OF 10

BY	REVISIONS	DATE

DESIGNED	BSB	CHECKED	ANZ	REVIEWED	WEI/WMD
DRAWN	BSB	DESIGN GROUP	AWB	APPROVED	PVL

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	428	668



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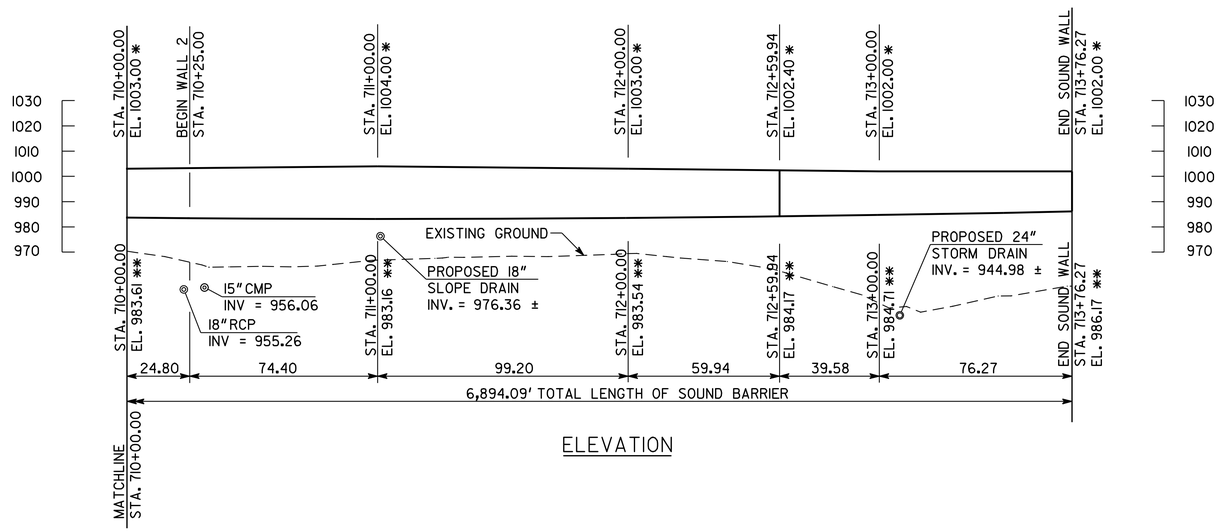

ELEVATION

NOTES:
1. * ELEVATION OF TOP OF WALL AT FRONT FACE TYP.
2. ** PROPOSED GROUND ELEVATION OF WALL AT FRONT FACE TYP.

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GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

SOUND BARRIER ENVELOPE

RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSHNS-0006-00(043)

SCALE: 1" = 30'-0" DECEMBER 2010

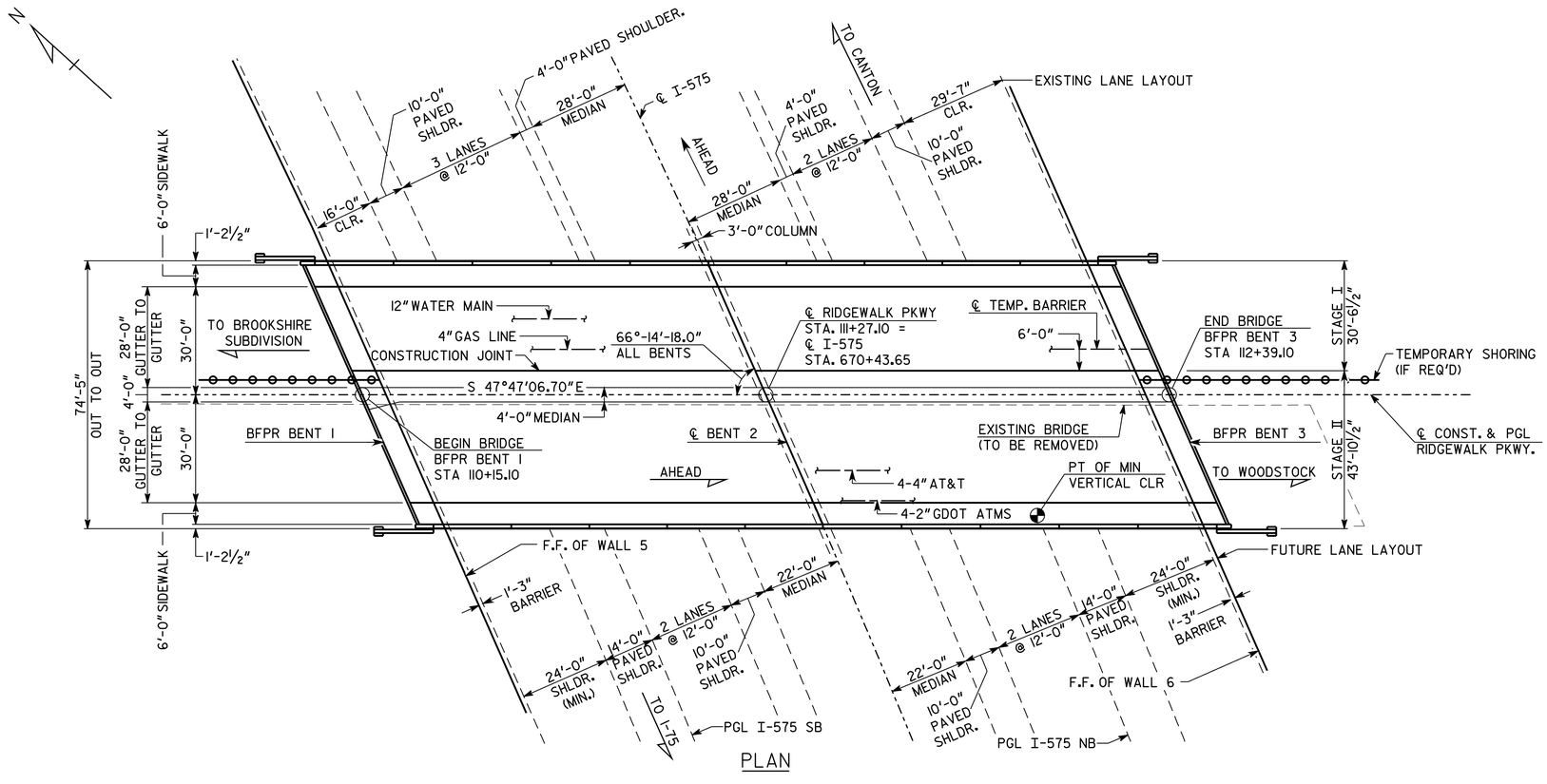
DRAWING NO.	REVISIONS	BY	DATE
33-10			
WALL SHEET 10 OF 10			

DESIGNED	CHECKED	REVIEWED
BSB	ANZ	WEI/WMD
DRAWN	DESIGN GROUP	APPROVED
BSB	AWB	PVL

RELEASED FOR CONSTRUCTION 12-02-2010

12/6/2010 12:32:27 PM Y:\Roadways\07400004\WALLS\NOISE\W08-10.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	429	668



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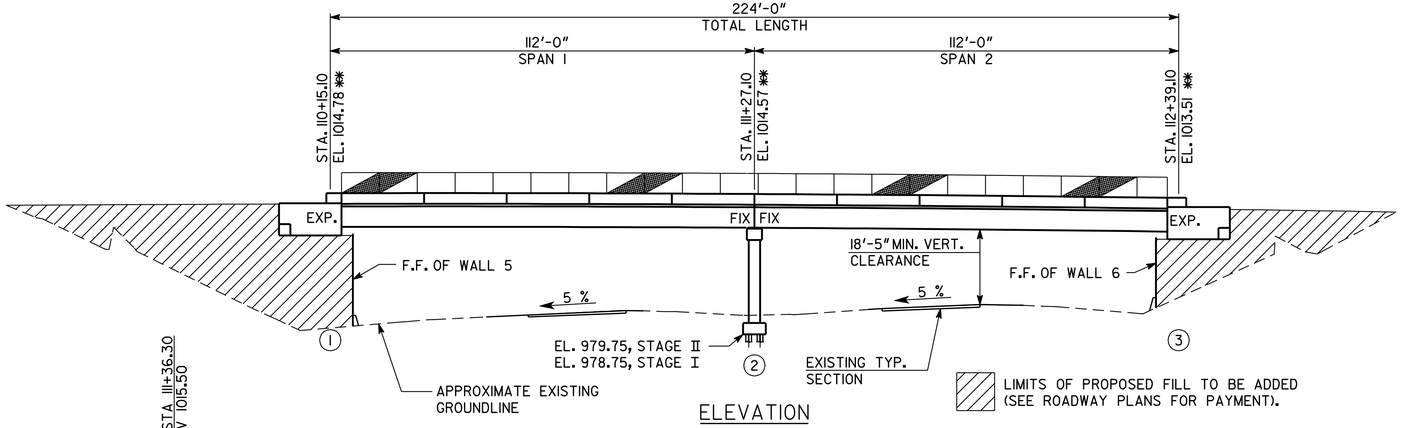
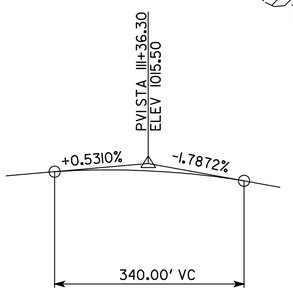


ELEVATION



PROFILE GRADE DATA
RIDGEWALK PKWY.

PVI STA. 669+50.00	PVI STA. 670+00.00	PVI STA. 670+50.00	PVI STA. 671+00.00	PVI STA. 671+50.00
EL. 988.89	EL. 988.39	EL. 987.75	EL. 987.04	EL. 986.29
-1.000%	-1.280%	-1.420%	-1.500%	

PROFILE GRADE DATA
I-575 SB

PVI STA. 669+50.00	PVI STA. 670+00.00	PVI STA. 670+50.00	PVI STA. 671+00.00	PVI STA. 671+50.00
EL. 986.56	EL. 986.12	EL. 985.62	EL. 985.01	EL. 984.32
-0.088%	-1.000%	-1.220%	-1.380%	

PROFILE GRADE DATA
I-575 NB

P.I. STA. 669+95.69
Δ = 32°-46'-43.0" LT
D = 1°-30'-00.00"
L = 2185.25'
T = 1123.43'
R = 3819.72'
S.E. = .05 FT/FT

HORIZONTAL CURVE DATA
I-575

NOTES

1. ** ALL STATIONS AND ELEVATIONS MEASURED AT INTERSECTION OF PROFILE GRADE LINE AND BFPR OR CENTERLINE OF BENT.
2. END BENT PILES NOT SHOWN.
3. ALL BENTS PARALLEL.
4. THE PROPOSED BRIDGE IS TO BE BUILT ON NORMAL CROWN OF 2%.

EXISTING BRIDGE SERIAL NO. 057-0065-0
STRUCTURE I.D. NO. 057-0178IX-000.10E
P.I. NO. 0006043

BRIDGE NO. 1

THE LPA GROUP LPA
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

PLAN AND ELEVATION
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

BY	REVISIONS	DATE

DRAWING NO. 35-01
BRIDGE SHEET 1 OF 14
SCALE: 1"= 20'-0"
DECEMBER 2010

DESIGNED BSB	CHECKED ANZ	REVIEWED WEI/WMD
DRAWN CJH	DESIGN GROUP AWB	APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

RELEASED FOR CONSTRUCTION 12-02-2010

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	430	668

BRIDGE CONSISTS OF

2 - 112'-0" BULB TEE, 65 IN, PSC BEAM SPANS ---------- SPECIAL DESIGN

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

1 - CONCRETE INTERMEDIATE BENT ---------- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ------- GA. STD. 3054 (9-30-02)
2 - (L = 4'-0"; W = 1'-1"; H = 2'-10")
2 - (L = 5'-0"; W = 1'-1"; H = 2'-10")

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

CONCRETE BARRIERS - TEMPORARY ---------- GA. STD. 4960 (5-10-07)

DETAILS OF PRECAST TEMPORARY BARRIERS ---------- GA. STD. 4961 (9-8-06)

CHAIN LINK WIRE FENCE ---------- GA. STD. 9031N (8-13-85)

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

DESIGN DATA

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

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 AA, f'_c = 3,500 PSI

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

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

TRAFFIC DATA (RIDGEWALK PARKWAY)

TRAFFIC ---------- ADT = 8,320 (2012)
ADT = 15,950 (2032)
DESIGN SPEED ---------- 45 MPH
TRUCKS ---------- 3 %
24 HR TRUCKS ---------- 5 %
DIRECTIONAL ---------- 53 %

TRAFFIC DATA (I-575))

TRAFFIC ---------- ADT = 88,120 (2012)
ADT = 160,500 (2032)
DESIGN SPEED ---------- 75 MPH
TRUCKS ---------- 6 %
24 HR TRUCKS ---------- 7 %
DIRECTIONAL ---------- 51 %

EXISTING UTILITIES

1 - 4" GAS MAIN ---------- ATLANTA GAS LIGHT COMPANY
1 - 12" WATER MAIN ---------- CITY OF WOODSTOCK

PROPOSED UTILITIES

1 - 4" GAS MAIN ---------- ATLANTA GAS LIGHT COMPANY
1 - 12" WATER MAIN ---------- CITY OF WOODSTOCK
4 - 4" CONDUIT ---------- AT&T
4 - 2" CONDUIT ---------- GDOT ATMS

GENERAL NOTES

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

SHOP DRAWINGS - SUBMIT SHOP DRAWINGS TO ENGINEER OF RECORD (EOR) FOR INITIAL REVIEW AND APPROVAL. ONCE APPROVED AND STAMPED BY EOR, EOR SHALL SUBMIT 6 STAMPED SETS TO THE GEORGIA DOT OFFICE OF BRIDGES AND STRUCTURES FOR REVIEW AND APPROVAL.

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.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 16'-6" ABOVE I-575.

TEMPORARY SHORING - INCLUDE THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION IN THE OVERALL BID SUBMITTED.

TEMPORARY BARRIERS, METHOD 1 - PLACE TEMPORARY BARRIERS AS SHOWN ON THE PLANS AND GEORGIA STANDARD NOS. 4960 AND 4961 TO PROVIDE FOR 2 - 11'-0" TRAFFIC LANES. SUPPLY AND USE THE BARRIER IN ACCORDANCE WITH SECTION 620 OF THE GEORGIA DOT SPECIFICATIONS.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 347-0600. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER I-575-1(6)07.

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PDA TESTING - PILE DATA ANALYZER WILL BE UTILIZED BY THE GEORGIA DOT DURING THE PILE DRIVING OPERATION. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH AT 404-363-7546 TWO WEEKS PRIOR TO DRIVING PILES.

PILE POINTS - REINFORCE ALL PILE TIPS AT BENT 1-RT AND BENT 3-RT IN ACCORDANCE WITH SECTIONS 520 AND 855 OF THE GEORGIA DOT SPECIFICATION.

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

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.

ABUTMENT SOIL REINFORCING DEVICE INSERTS - INCLUDE THE COST OF FURNISHING AND INSTALLING INSERTS FOR SOIL REINFORCEMENT DEVICES AT ABUTMENT IN THE OVREALL BID SUBMITTED.

FILL SETTLEMENT - PROTECT PILES DRIVEN AT BENTS 1 AND 3 FROM NEGATIVE SKIN FRICTION WHEN USED IN CONJUNCTION WITH MECHANICALLY STABILIZED EARTH WALLS, SEE SECTION 551 OF THE GEORGIA DOT SPECIFICATIONS. DRIVE PILES AT END BENTS BEFORE WALL LEVELING PADS ARE CONSTRUCTED.

UTILITY CASING - ENCASE EACH UTILITY WITHIN THE LIMITS OF THE WALL BACKFILL IN A CONCRETE PIPE EXTENDING FROM THE BACK FACE OF THE BRIDGE END WALL TO 2'-0" BEYOND THE LIMIT OF THE MSE WALL BACKFILL MATERIAL. THE PIPE SHALL BE SUPPLIED AND PLACED BY THE UTILITY OWNER DURING CONSTRUCTION OF THE WALL; TAKE CARE NOT TO DAMAGE WALL MESH OR STRAPS.

UTILITY HANGERS - FURNISH AND INSTALL CONCRETE INSERTS. USE ANVIL FIGURE 282, AAA TECHNOLOGY FIGURE 912 OR APPROVED EQUAL CONCRETE INSERTS. INCLUDE THE COST OF FURNISHING AND INSTALLING CONCRETE INSERTS IN THE OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.

WATER/SEWER MAIN HANGERS - PIPE ROLL SUPPORT ASSEMBLIES AND KEEPER STRAPS SHALL BE FURNISHED AND INSTALLED BY THE UTILITY OWNER. FURNISH AND INSTALL ALL OTHER COMPONENTS OF HANGER ASSEMBLIES AND INCLUDE THE COST IN THE OVERALL BID SUBMITTED.

GENERAL NOTES (CONTINUED)

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.

CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".

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 THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN BUILD PROJECT - THIS IS A DESIGN BUILD PROJECT AND QUANTITIES ARE PROVIDED FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	65	CY	BRIDGE EXCAVATION, GRADE SEPARATION
500-0100	1444	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (682)
500-3002	156	CY	CLASS AA CONCRETE
507-9034	1991	LF	PSC BEAMS, AASHTO, BULB TEE, 65 IN, BR NO - 1
511-1000	35201	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (69901)
514-1000	LUMP	LS	EPOXY COATED SUPERSTR REINF STEEL, BR NO - 1 (50188)
520-0573	12	EA	H-PILE POINTS, HP 14 X 73
520-1147	1,925	LF	PILING IN PLACE, STEEL H, HP 14 X 73
540-1102	LUMP	LS	REMOVAL OF EXISTING BR, BR NO - 1
620-0100	485	LF	TEMPORARY BARRIER, METHOD NO. 1
643-1152	431	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

BRIDGE NO.1

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

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

GENERAL NOTES
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DATE | REVISIONS | BY

DRAWING NO. 35-02
BRIDGE SHEET 2 OF 14

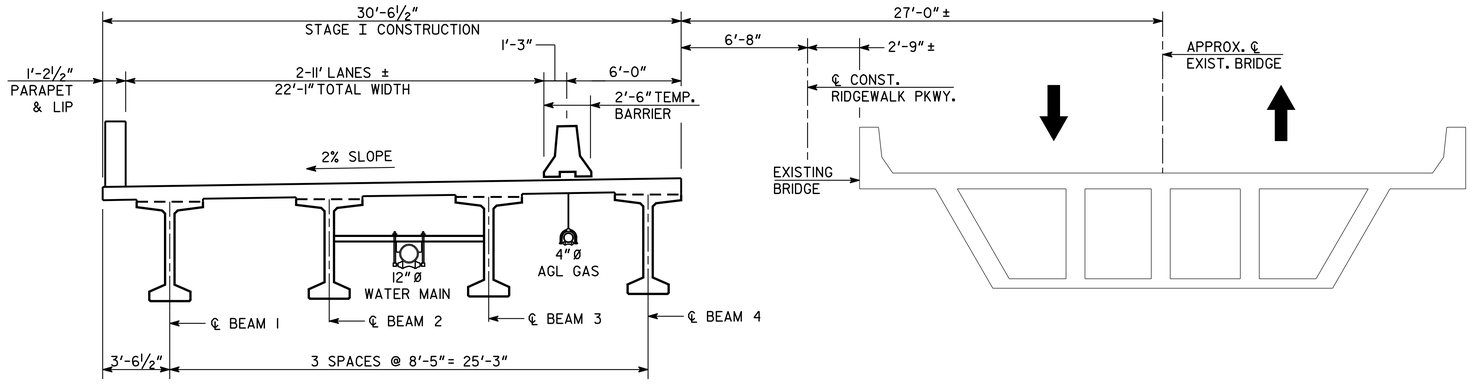
SCALE: NONE DECEMBER 2010

DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

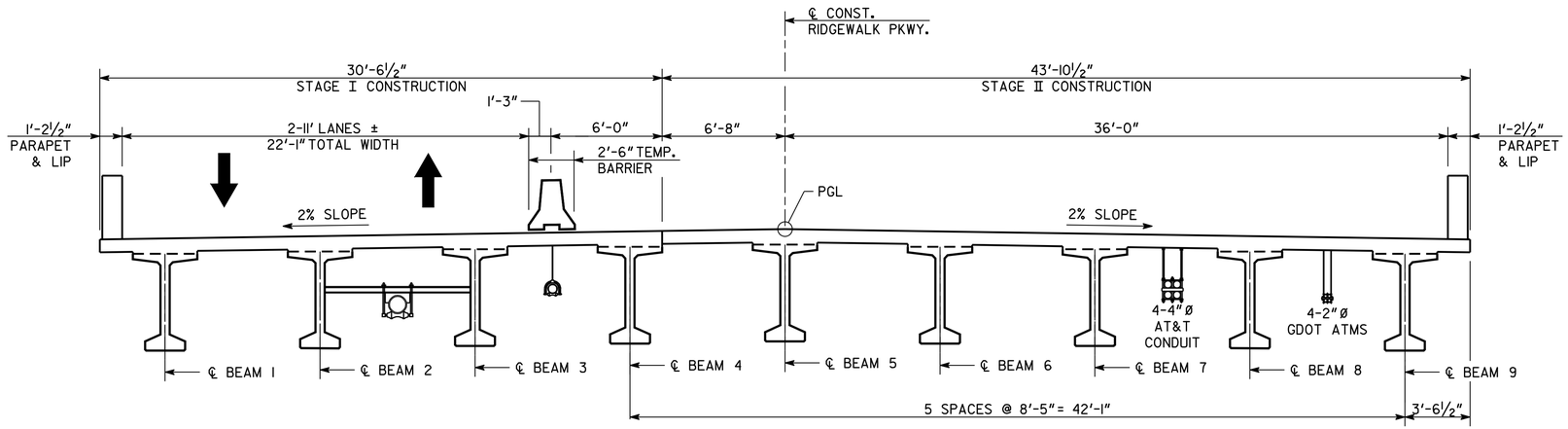
1 INCH WHEN PRINTED FULL SIZE

RELEASED FOR CONSTRUCTION 12-02-2010

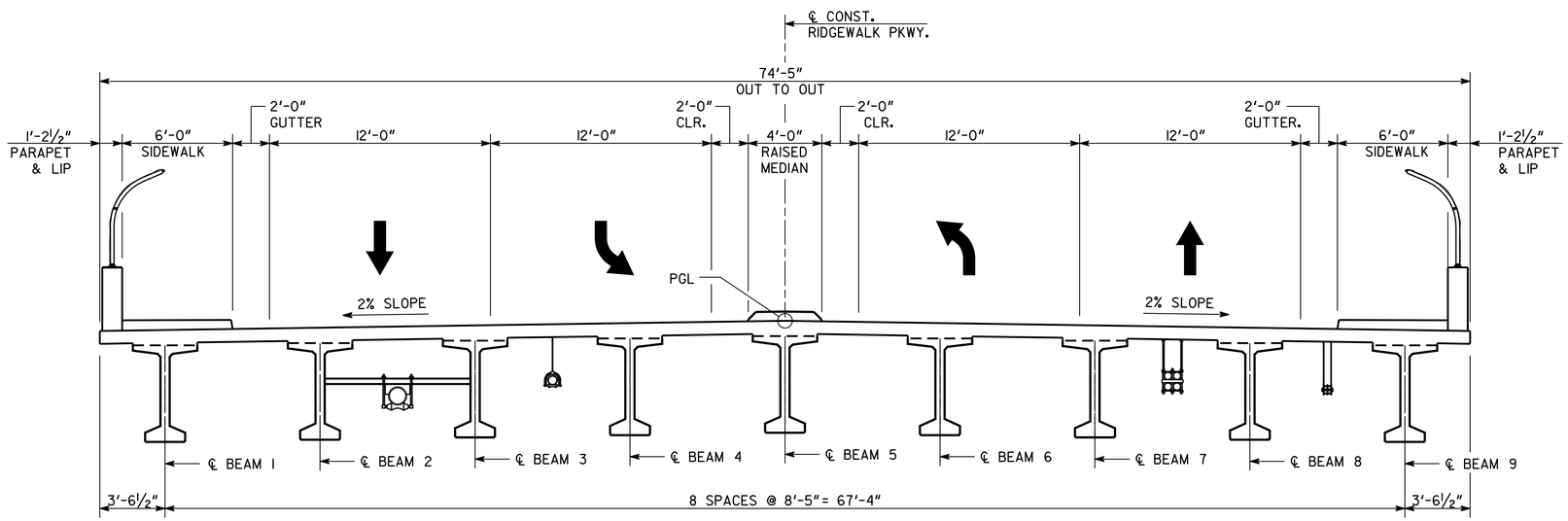
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	431	668



STAGE I



STAGE II



STAGE III

CONSTRUCTION SEQUENCE

STAGE I
1. MAINTAIN TRAFFIC ON EXISTING BRIDGE.
2. CONSTRUCT LEFT SIDE OF BRIDGE AS SHOWN

STAGE II
1. SHIFT TRAFFIC TO NEWLY CONSTRUCTED BRIDGE.
2. REMOVE EXISTING BRIDGE. *
3. CONSTRUCT RIGHT SIDE OF BRIDGE AS SHOWN.

STAGE III
1. REMOVE TEMPORARY BARRIER.
2. CAST SIDEWALKS.
3. OPEN FULL BRIDGE TO TRAFFIC.

COORDINATE THE AFOREMENTIONED SEQUENCE WITH ROADWAY OPERATIONS, SEE ROADWAY PLANS.

* CONTRACTOR SHALL SUBMIT BRIDGE REMOVAL PLANS TO GDOT FOR APPROVAL.

RELEASED FOR CONSTRUCTION 12-02-2010

BRIDGE NO. 1

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
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NORCROSS, GEORGIA 30092
(770) 263-9118

GEORGIA
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ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

CONSTRUCTION SEQUENCE
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DATE | REVISIONS | BY

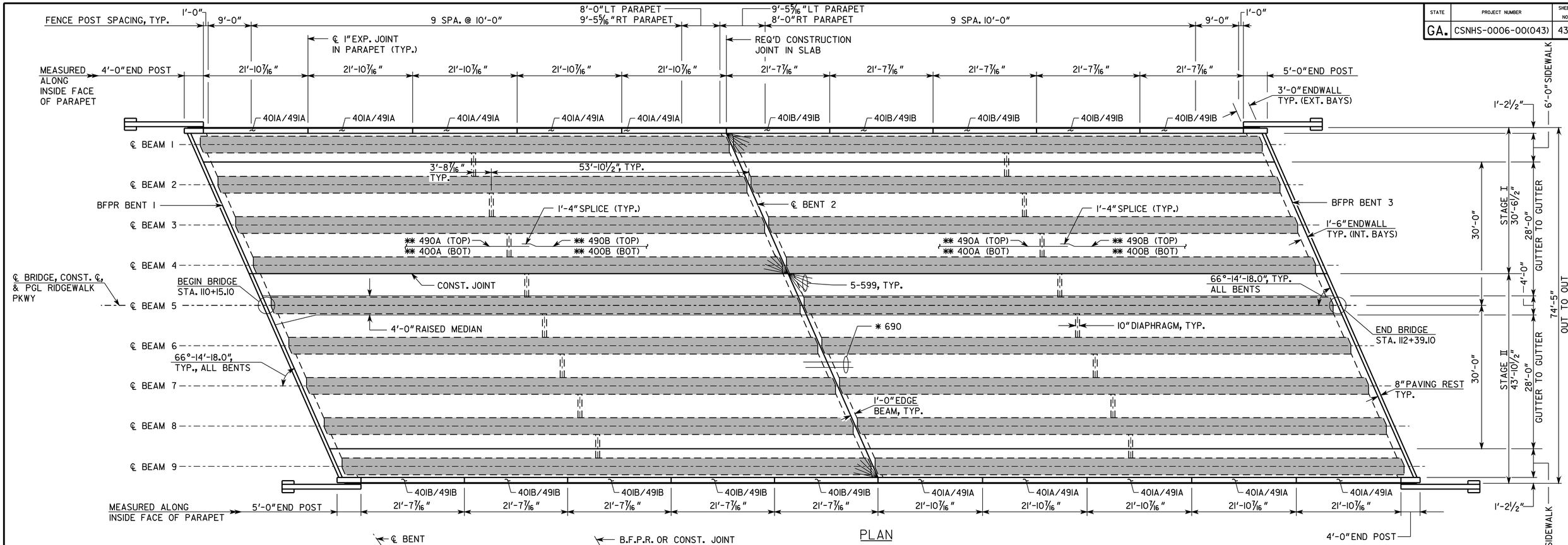
DRAWING NO. 35-03
BRIDGE SHEET 3 OF 14

SCALE: ¼" = 1'-0" DECEMBER 2010

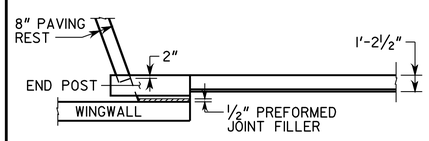
DESIGNED BSB	CHECKED ANZ	REVIEWED WEI/WMD
DRAWN CJH	DESIGN GROUP AWB	APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

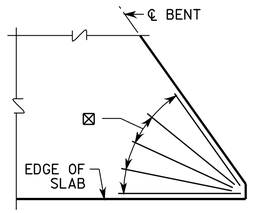
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	432	668



PLAN



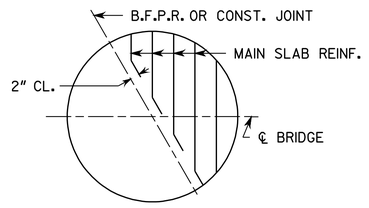
PAVING REST AT WING WALL DETAIL



☒ 5-599 IN EACH ACUTE CORNER ADJACENT TO INTERMEDIATE BENTS, TYP.

SKEWED CORNER DETAIL

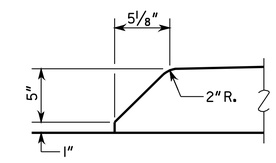
NO SCALE



AT B.F.P.R. OR CONST. JOINT

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

BAR BENDING DETAILS AT SKEWED JOINTS



MEDIAN CURB FACE DETAIL

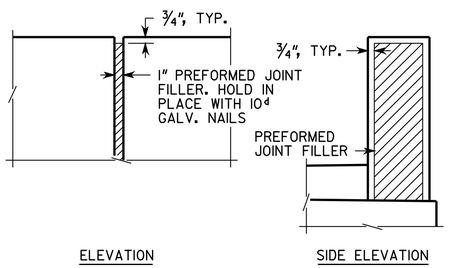
NO SCALE

SUPERSTRUCTURE QUANTITIES			
ITEM	SPAN 1	SPAN 2	TOTAL
SUPERSTR CONCRETE, CLASS AA (CY)	340.8	340.8	681.6
SUPERSTR REINFORCING STEEL (LB)	34,960	34,941	69,901
EPOXY COATED SUPERSTR REINFORCING STEEL (LB)	25,905	24,283	50,188

NOTES:
1. MAINTAIN 2" CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
2. BARS P501 AND P701 IN THE END POST SHALL BE EPOXY COATED
3. ALL 90 SERIES BARS SHALL BE EPOXY COATED.
4. 690 BAR QUANTITY INCLUDED IN SPAN 1.

✱ PLACE 2 690 BARS BETWEEN EACH PAIR OF 490 BARS IN TOP OF SLAB OVER INTERMEDIATE BENTS.
✱✱ ALTERNATE 400A AND 400B, OR 490A AND 490B BARS ACROSS DECK TO STAGGER LAP LOCATION.

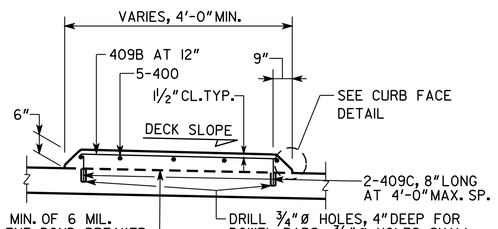
BRIDGE NO. 1



DETAIL OF 1" EXPANSION JOINT IN PARAPET

PLACE TRANSVERSE MARKINGS ON MEDIAN SPACED AT 5'-0"±.

COST OF BOND BREAKER AND EPOXY ADHESIVE TO BE INCLUDED IN PRICE BID FOR SUPERSTRUCTURE ITEMS.



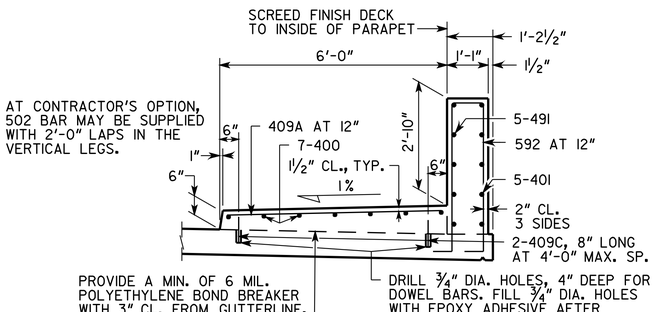
PROVIDE A MIN. OF 6 MIL. POLYETHYLENE BOND BREAKER WITH 3" CL. FROM GUTTERLINE, OR JOINTS.

DRILL 3/4" ø HOLES, 4" DEEP FOR DOWEL BARS. 3/4" ø HOLES SHALL BE FILLED WITH EPOXY ADHESIVE AFTER BARS ARE INSERTED.

RAISED MEDIAN DETAILS

PLACE TRANSVERSE SIDEWALK MARKINGS ON SIDEWALK SPACED AT 5'-0"±.

INCLUDE COST OF BOND BREAKER AND EPOXY ADHESIVE IN PRICE BID FOR SUPERSTRUCTURE ITEMS.



PROVIDE A MIN. OF 6 MIL. POLYETHYLENE BOND BREAKER WITH 3" CL. FROM GUTTERLINE, PARAPET, OR JOINTS

DRILL 3/4" DIA. HOLES, 4" DEEP FOR DOWEL BARS. FILL 3/4" DIA. HOLES WITH EPOXY ADHESIVE AFTER BARS ARE INSERTED

SIDEWALK AND PARAPET DETAILS FOR FENCE ATTACHMENT

THE LPA GROUP
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

DECK PLAN
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

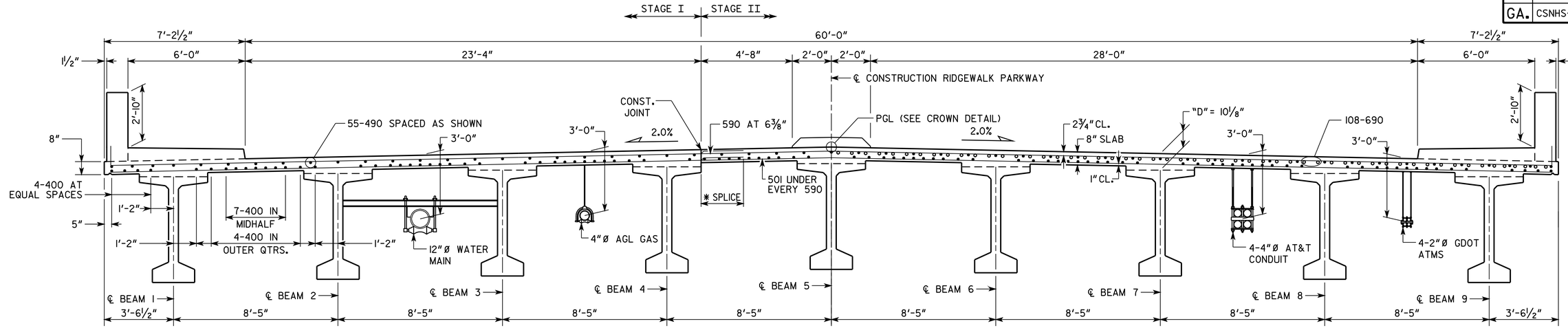
DRAWING NO.	SCALE: NONE	DECEMBER 2010
35-04		
BRIDGE SHEET 4 OF 14	DESIGNED BSB / DRAWN CJH / CHECKED ANZ / DESIGN GROUP AWB / REVIEWED WEI/WMD / APPROVED PVL	

REVISIONS — BY — DATE

1 INCH WHEN PRINTED FULL SIZE

RELEASED FOR CONSTRUCTION 12-02-2010

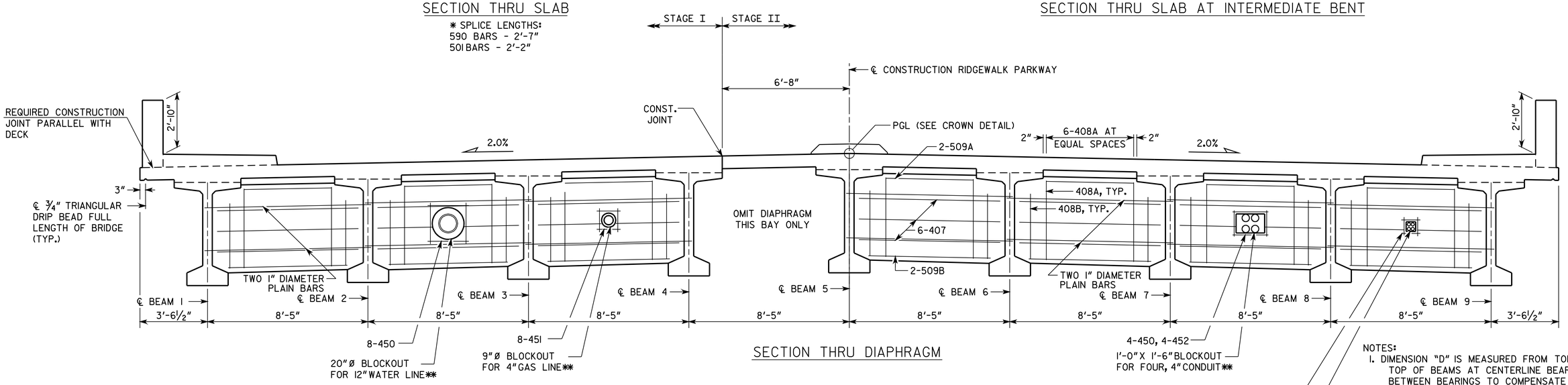
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	433	668



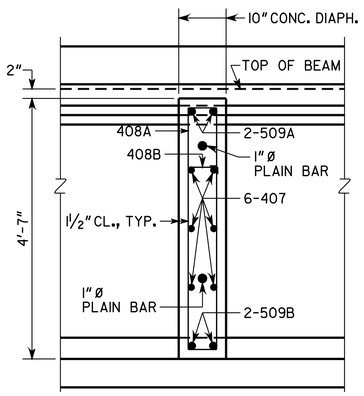
SECTION THRU SLAB

SECTION THRU SLAB AT INTERMEDIATE BENT

* SPLICE LENGTHS:
590 BARS - 2'-7"
501 BARS - 2'-2"

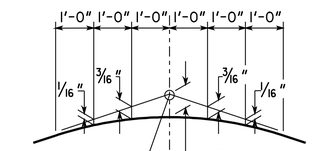


SECTION THRU DIAPHRAGM



SLAB REINFORCEMENT NOT SHOWN.

SECTION THRU DIAPHRAGM



CROWN DETAIL
2.0% CROSS SLOPE

NOTES:
1. 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 CONSTANT SLAB THICKNESS OF 8". "D" = 10⅛"
2. MAINTAIN 2" CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
3. ** CLIP OR SHIFT ALL REINFORCEMENT TO CLEAR BLOCKOUTS. SEE SHEET 35-09, MISCELLANEOUS DETAILS, FOR UTILITY ATTACHMENT DETAILS.

BRIDGE NO. 1

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THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

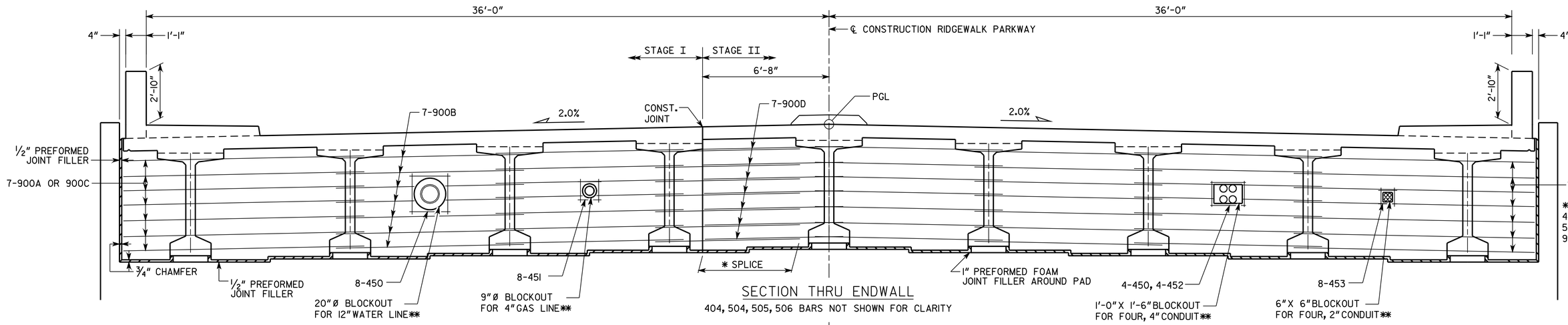
DECK SECTIONS
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DRAWING NO. 35-05	SCALE: NONE	DECEMBER 2010
BRIDGE SHEET 5 OF 14	DESIGNED BSB / DRAWN CJH / CHECKED ANZ / DESIGN GROUP AWB	REVIEWED WEI/WMD / APPROVED PVL

REVISIONS | DATE | BY

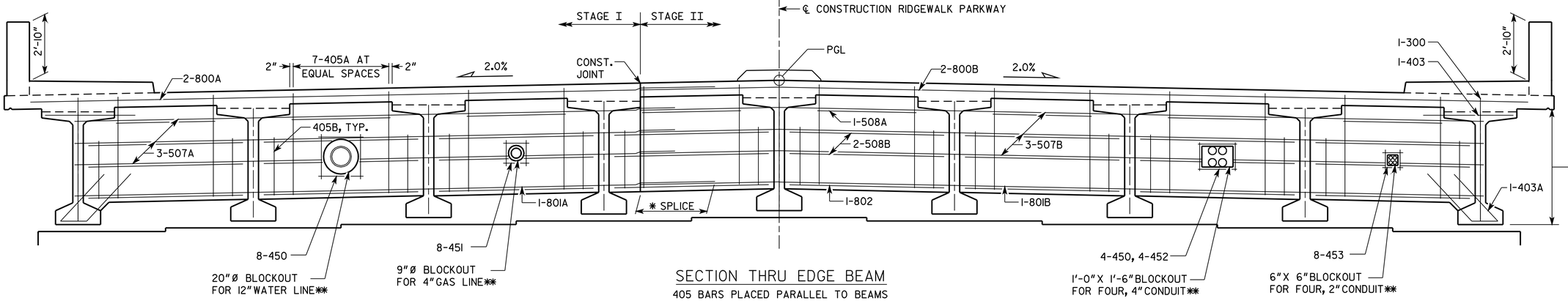
RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	434	668



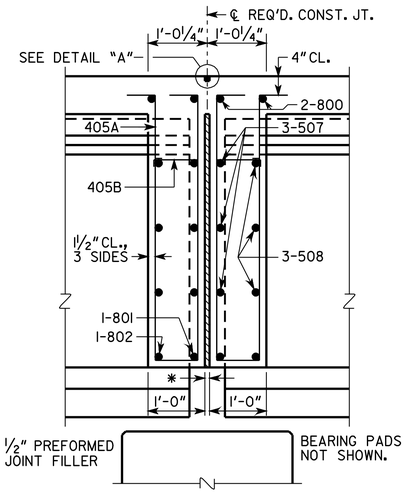
SECTION THRU ENDWALL

404, 504, 505, 506 BARS NOT SHOWN FOR CLARITY



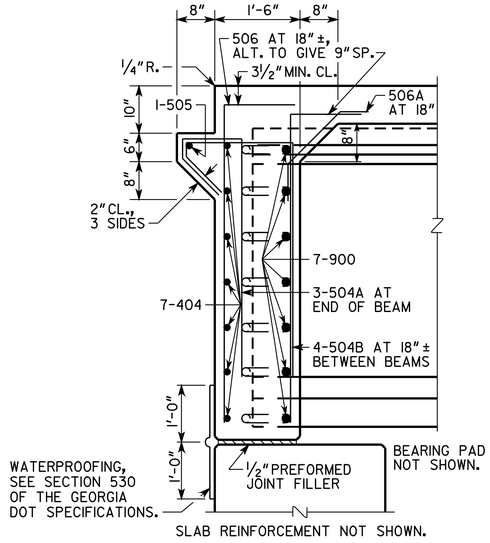
SECTION THRU EDGE BEAM

405 BARS PLACED PARALLEL TO BEAMS



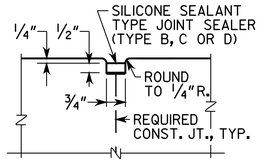
SLAB REINFORCEMENT NOT SHOWN.

SECTION THRU EDGE BEAM



SLAB REINFORCEMENT NOT SHOWN.

SECTION AT ENDWALL



DETAIL "A"

NOTES:
1. MAINTAIN 2" CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
2. ** CLIP OR SHIFT ALL REINFORCEMENT TO CLEAR BLOCKOUTS. SEE SHEET 35-09, MISCELLANEOUS DETAILS, FOR UTILITY ATTACHMENT DETAILS.

BRIDGE NO. 1

THE LPA GROUP LPA
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

DECK SECTIONS (CONTINUED)

RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSNHS-0006-00(043)

DRAWING NO. 35-06	BRIDGE SHEET 6 OF 14

REVISIONS | BY | DATE

SCALE: NONE DECEMBER 2010

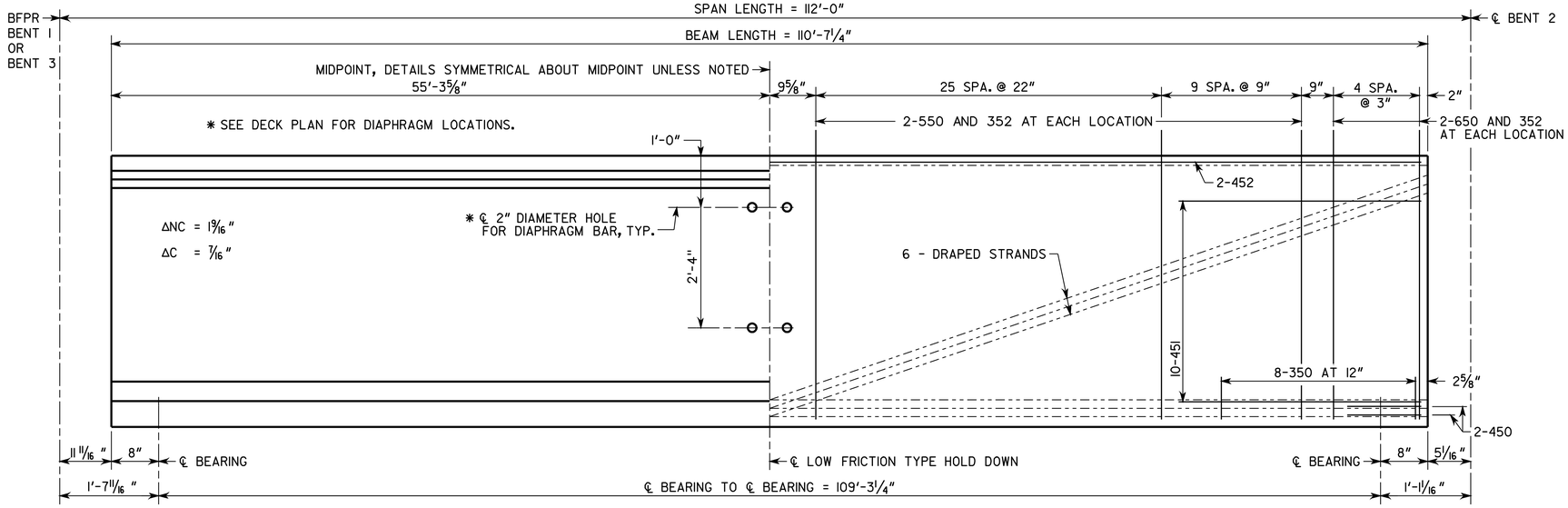
DESIGNED BSB | DRAWN CJH | CHECKED ANZ | DESIGN GROUP AWB | REVIEWED WEI/WMD | APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

RELEASED FOR CONSTRUCTION 12-02-2010

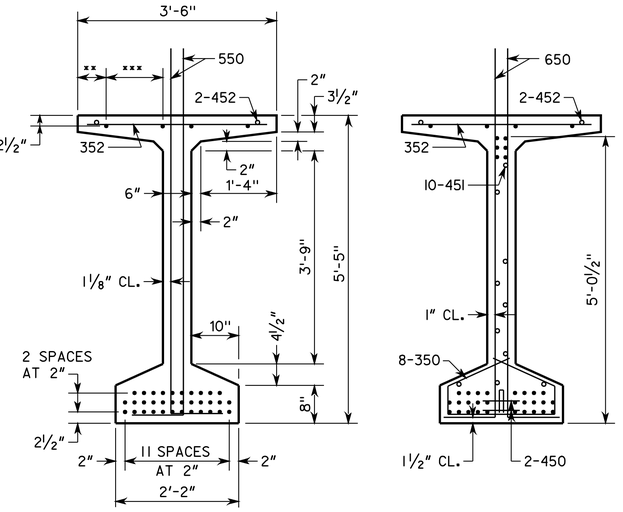
12/6/2010 12:33:32 PM Y:\Roadways\07400004\Bridge\Final\06-ds.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	435	668



ELEVATION

** 8" MINIMUM
*** 6" MINIMUM



MAINTAIN 1" MINIMUM CLEARANCE UNLESS SHOWN.
• INDICATES 0.6" 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 7'-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 1/2", 3/4" OR 1".

3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE 1/8" 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 1 1/2" DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 6" X 1 1/2" X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A 1 1/4" 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 1/4". 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 PARAPET, SIDEWALK, AND MEDIAN.

8. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.

9. PRESTRESSING DATA IS AS FOLLOWS:

   A. USE 38 - 0.6" DIAMETER LOW-RELAXATION (A = 0.217 SQ IN) STRANDS. PRETENSION TOP FOUR (4) STRANDS TO 10,000 LBS EACH. PRETENSION BOTTOM STRANDS TO 43,943 LBS EACH.

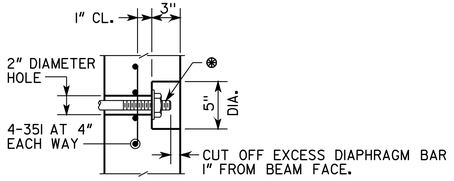
   B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_{ci}) OF 5,600 PSI.

   C. INCLUDING THE TOP STRANDS, THE TOTAL JACKING FORCE OF PRETENSIONING IS 1,534,062 LBS.

   D. INCLUDING THE TOP STRANDS, THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS 1,103,308 LBS.

10. CONCRETE STRENGTH (f'_c) = 6,000 PSI.

11. ALLOWABLE PSC BEAM TENSION = 464 PSI.



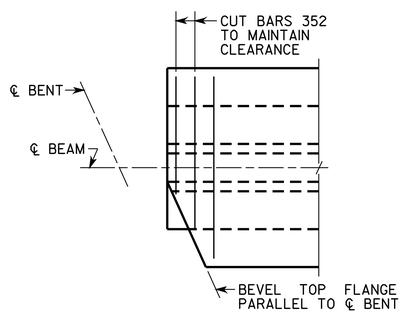
⊛ DIAPHRAGM BAR SHALL BE A 1" DIAMETER PLAIN BAR, THREADED 5" ON EACH END, WITH 1/4" X 3 1/2" DIAMETER WASHERS AND HEX NUTS (ASTM A 709 GRADE 36).

DIAPHRAGM BAR SHALL BE TIGHTENED AS PER SUB-SECTION 507.3.05.C 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.

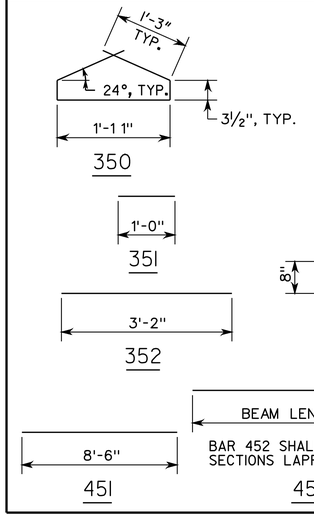
GALVANIZING OF DIAPHRAGM BAR AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS NOT REQUIRED.

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

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

BULB TEE, 65 IN PSC BEAM
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DATE | REVISIONS | BY

DRAWING NO. 35-07
BRIDGE SHEET 7 OF 14

SCALE: NONE DECEMBER 2010

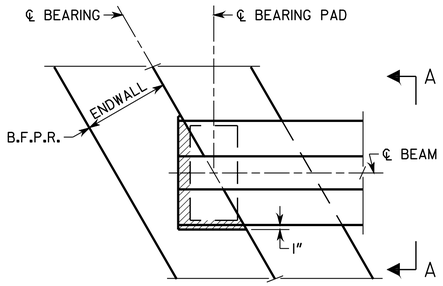
DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

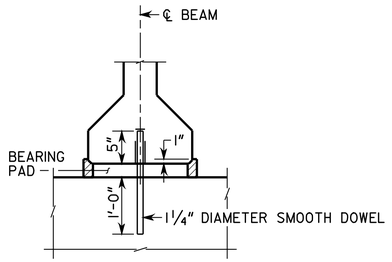
RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	436	668

RELEASED FOR CONSTRUCTION 12-02-2010

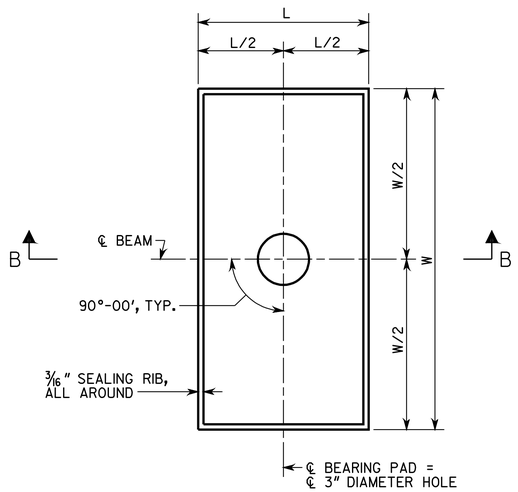


PLAN
BENT 1 SHOWN
BENT 3 SIMILAR

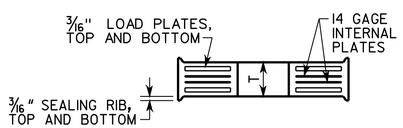


▨ PREFORMED FOAM JOINT FILLER SHALL BE FURNISHED IN ACCORDANCE WITH SUB-SECTION 833.2.10 OF THE GEORGIA DOT SPECIFICATIONS.

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) 1¼" 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 ¼" 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 1½° 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&3	22"	11"	2⅛"	2	0.56"	137.34	54.89	192.23
2	22"	11"	2⅛"	2	0.00"	137.34	54.89	192.23

BRIDGE NO. 1

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TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-5118

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

BEARING PAD DETAILS
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DATE | REVISIONS | BY

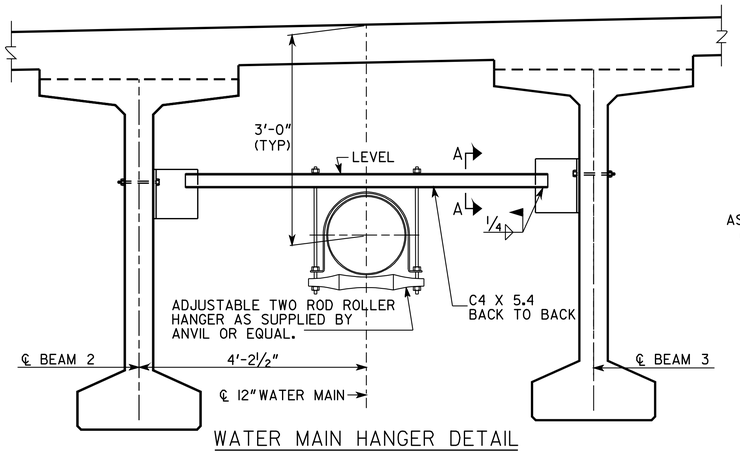
DRAWING NO. 35-08
BRIDGE SHEET 8 OF 14

SCALE: NONE DECEMBER 2010

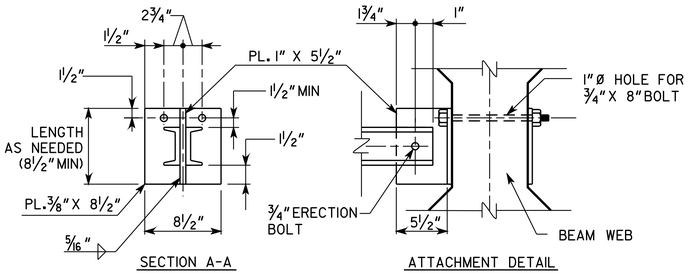
DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	437	668



WATER MAIN HANGER DETAIL

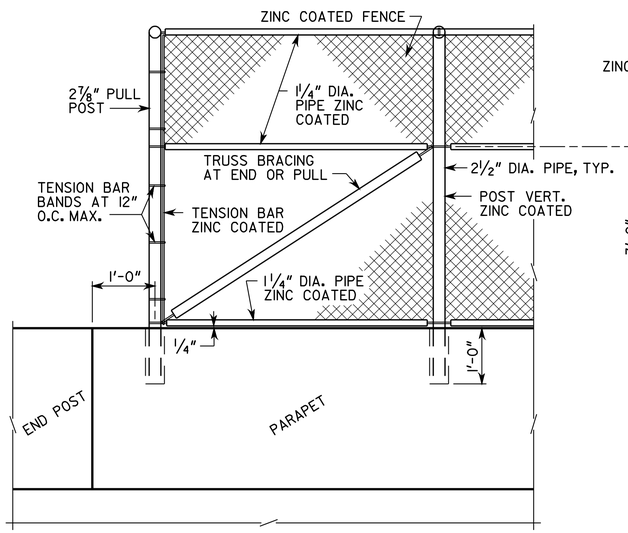


NOTE: ADUST HANGER SUPPORT SPACING SLIGHTLY TO AVOID STRANDS

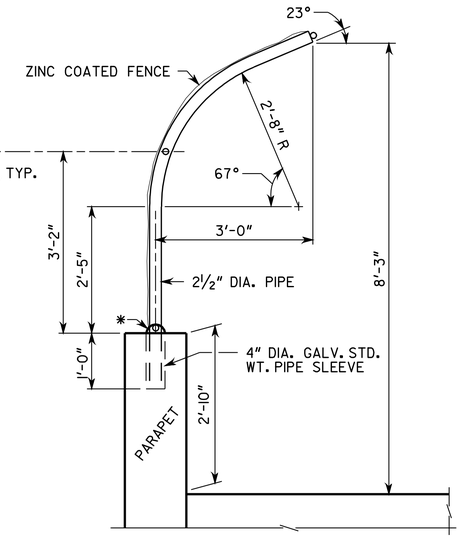
WATER MAIN HANGER DETAILS

FENCE NOTES:

1. FENCE SHALL BE 9 GAGE CHAIN LINK ZINC COATED TWO INCH SECURITY FENCE.
2. CAST 4" DIA. GALVANIZED SLEEVE IN THE PARAPET. ALLOW NON-SHRINK GROUT TO CURE FOR THREE DAYS BEFORE FENCE FABRIC IS INSTALLED.
3. APPLY GALVANIZING REPAIR COMPOUND, IN ACCORDANCE WITH GEORGIA DOT SPECIFICATION 645, TO ENDS OF 4" DIA. GALVANIZED SLEEVES.
4. PROVIDE EXPANSION SLEEVE FOR ALL RAILS TO MATCH SUPERSTRUCTURE JOINTS.
5. FOR POST SPACING, SEE BRIDGE SHEET 35-04.
6. FOR FURTHER DETAILS, SEE GEORGIA DOT SPECIFICATIONS SECTIONS 643 AND 894.
7. FASTEN FABRIC TO POSTS AT INTERVALS NOT GREATER THAN 14".



FENCE ELEVATION



FENCE POST DETAIL

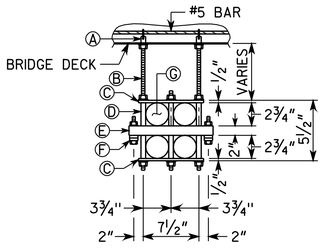
* NON-SHRINK PORTLAND CEMENT GROUT, TROWEL TO PROVIDE POSITIVE DRAINAGE.

4-4" CONDUIT

Ⓐ 3/4" LOOP INSERT FOR 3/4" - 10 ROD.
Ⓑ 3/4" - 10 GALVANIZED MACHINE ROD
Ⓒ 1/2" X 2" X 19 5/8" P.V.C. FLAT BAR.
Ⓓ 1" X 4 7/8" P.V.C. SPACER TUBE.
Ⓔ 2" X 2" X 23 5/8" GALVANIZED SQUARE TUBE.
Ⓕ 5/8" STRAND CLAMP ASSEMBLY
Ⓖ 3/4" - 10 Ø X 10" GALVANIZED THREADED ROD.
Ⓗ 3/4" NUTS, WASHERS, AND LOCK WASHERS.
12" HIGH X 24" WIDE OPENING REQUIRED THROUGH END WALLS
12" HIGH X 24" WIDE OPENING REQUIRED THROUGH DIAPHRAGMS.

DETAIL OF HANGER FOR AT&T CONDUIT

NOTE: PLACE HANGER ATTACHMENTS AT INTERVALS OF UP TO 15 FT.



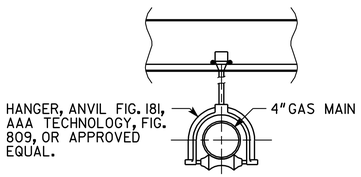
4-2" CONDUIT

Ⓐ 3/4" LOOP INSERT FOR 3/4" - 10 ROD.
Ⓑ 3/4" - 10 GALVANIZED MACHINE ROD
Ⓒ 1/2" X 2" X 9 1/2" P.V.C. FLAT BAR.
Ⓓ 1" X 2 3/4" P.V.C. SPACER TUBE.
Ⓔ 1/4" X 2" X 2" X 13 1/2" FIBERGLASS TUBE.
Ⓕ STRAND CLAMP
Ⓖ 2" Ø FIBERGLASS CONDUIT

DETAIL OF HANGER FOR GDOT ATMS

NOTE: PLACE HANGER ATTACHMENTS AT INTERVALS OF UP TO 15 FT.

USE ANVIL C.B. UNIVERSAL CONCRETE INSERT FIG. 282, AAA TECHNOLOGY & SPECIALTIES CO., INC. FIGURE 912, OR APPROVED EQUAL. HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY GAS COMPANY. INSERTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. HANGERS SHALL BE SPACED AT A MAXIMUM OF 25'-0" O.C.



GAS MAIN SUPPORT DETAILS

BRIDGE NO. 1

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

MISCELLANEOUS DETAILS
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DRAWING NO.	BY	DATE	REVISIONS
35-09			
BRIDGE SHEET 9 OF 14			

SCALE: NONE DECEMBER 2010

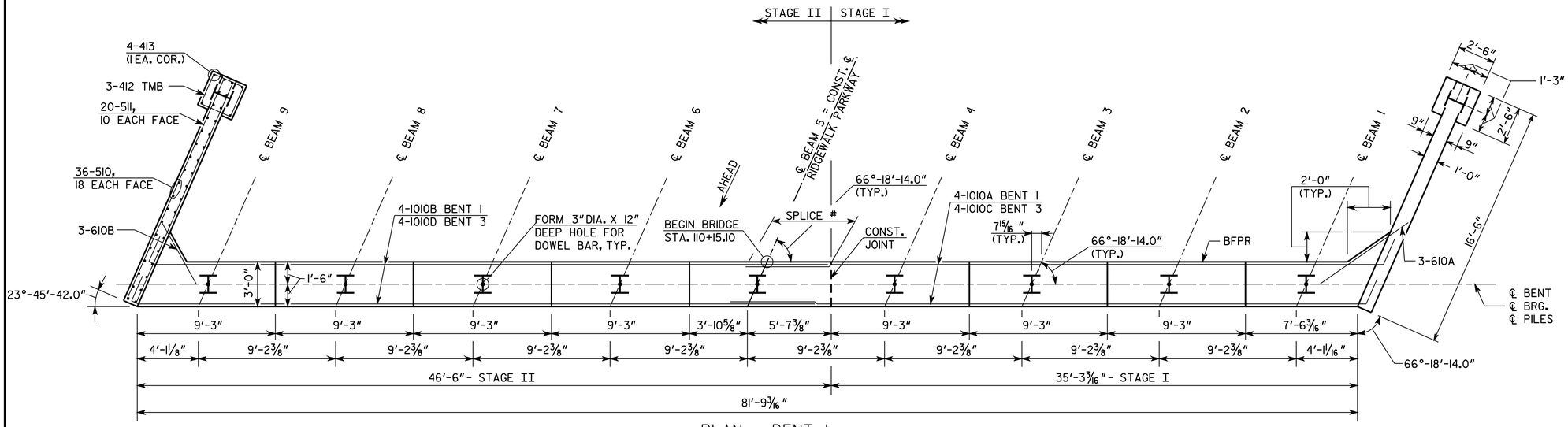
DESIGNED BSB CHECKED ANZ REVIEWED WEI/WMD
DRAWN CJH DESIGN GROUP AWB APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

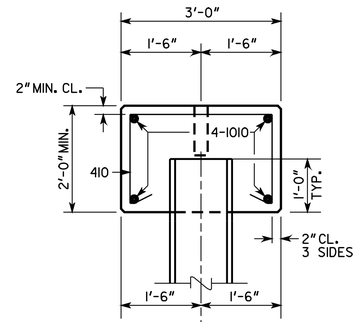
RELEASED FOR CONSTRUCTION 12-02-2010

12/6/2010 12:34:04 PM Y:\Roadways\07400004\Bridge\Final\09-mi.dgn

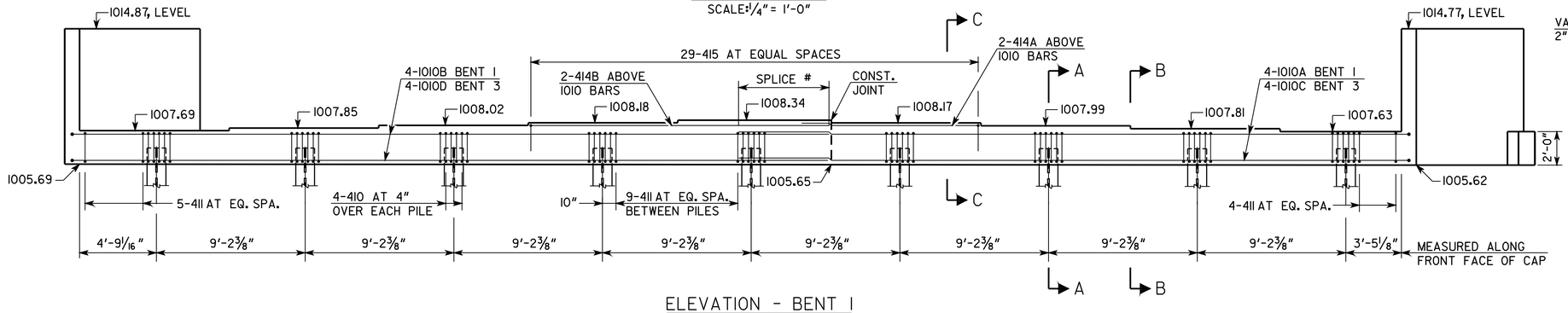
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	438	668



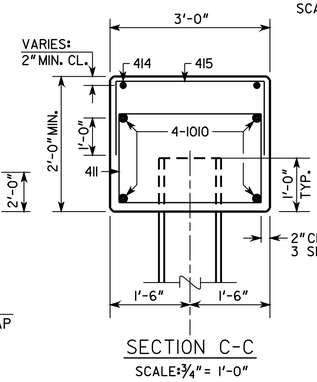
PLAN - BENT 1
SCALE: 1/4" = 1'-0"



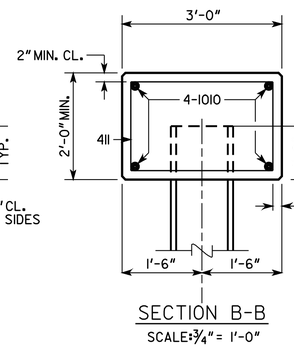
SECTION A-A
SCALE: 3/4" = 1'-0"



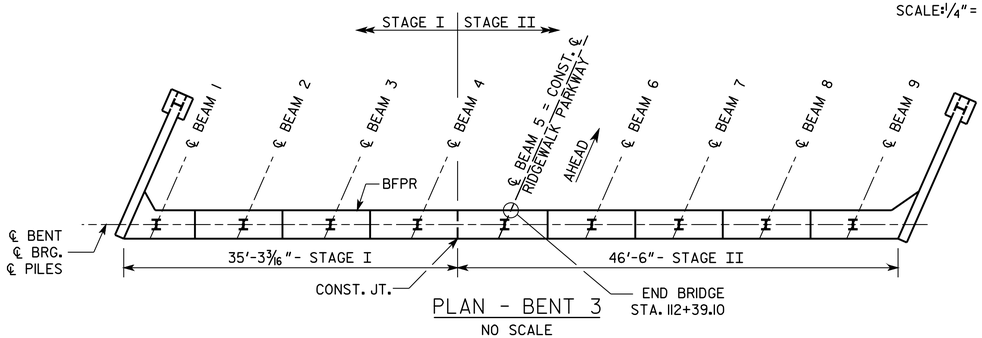
ELEVATION - BENT 1
(LOOKING BACK)
SCALE: 1/4" = 1'-0"



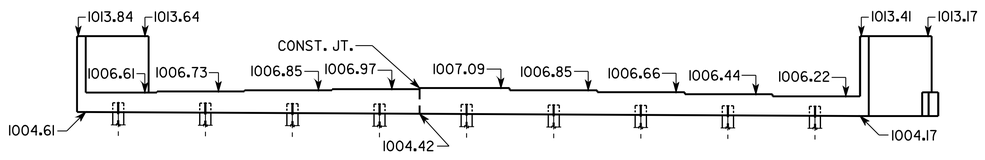
SECTION C-C
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



PLAN - BENT 3
NO SCALE



ELEVATION - BENT 3
(LOOKING AHEAD)
NO SCALE

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 116 TONS AFTER MINIMUM TIP ELEVATIONS ARE ACHEIVED AS FOLLOWS:
BENT 1 _____ ELEV. 967
BENT 3, STAGE I ____ ELEV. 936
BENT 3, STAGE II ____ ELEV. 980

ALL PILES SHALL BE STEEL H,HP 14X73, GR. 50.

BRIDGE NO. 1

NOTES:
1. MAINTAIN 2" CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
2. POUR WINGWALLS MONOLITHICALLY WITH THE CAP.
3. SEE GEORGIA STANDARD 9037 FOR DRAINAGE DETAILS AT END BENT.
4. WING WALL PILES NOT SHOWN IN ELEVATION.

SUBSTRUCTURE QUANTITIES		
ITEM	BENT 1	BENT 3
CY CLASS AA CONCRETE	33.1	33.0
LB BAR REINF STEEL	3,838	3,825

SPLICE LENGTHS:
1010 BARS - 5'-8"
414 BARS - 1'-4"

THE LPA GROUP LPA
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

END BENT 1 AND 3 DETAILS
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DRAWING NO. 35-10
BRIDGE SHEET 10 OF 14

BY | REVISIONS | DATE

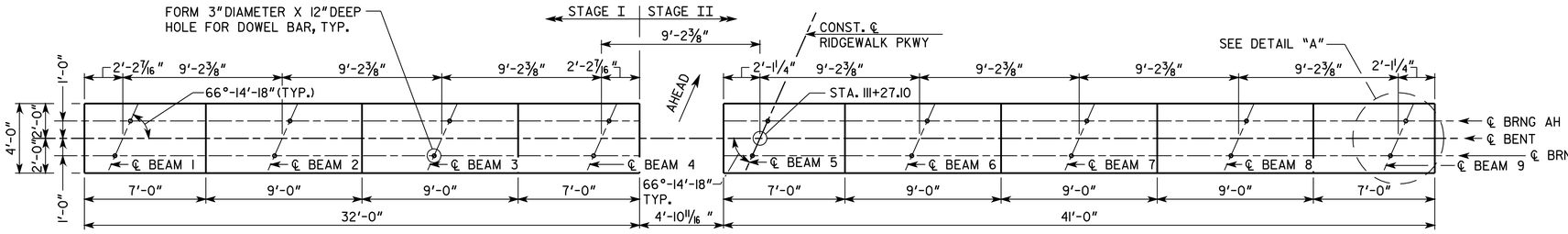
SCALE: AS SHOWN — DECEMBER 2010

DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

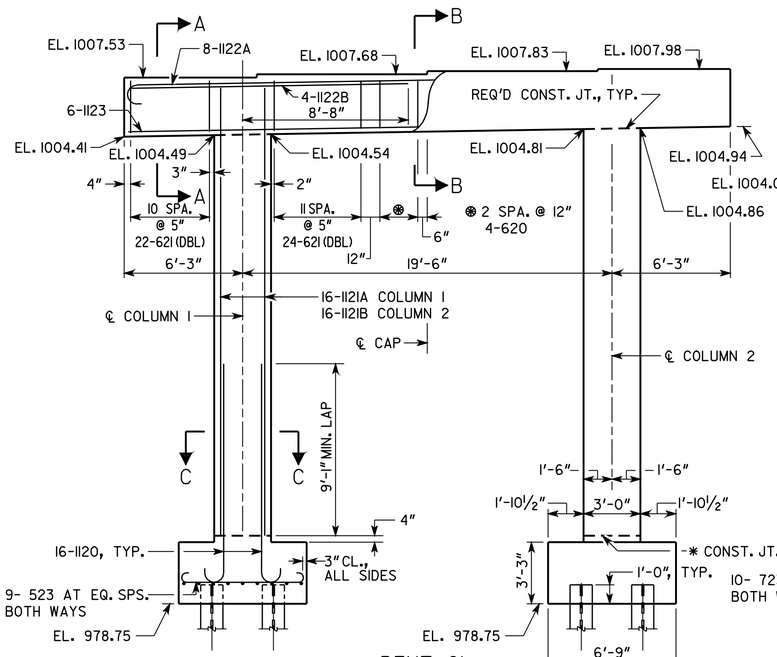
RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	439	668



PLAN - BENT 2

SCALE: ¼" = 1'-0"

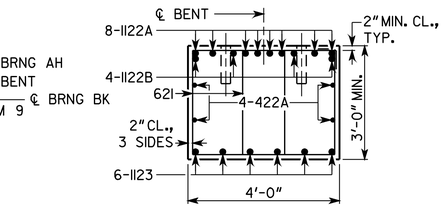


BENT 2L

ELEVATION - BENT 2

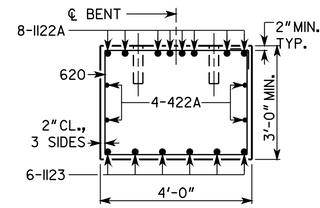
SCALE: ¼" = 1'-0"
(LOOKING AHEAD)

BENT 2R



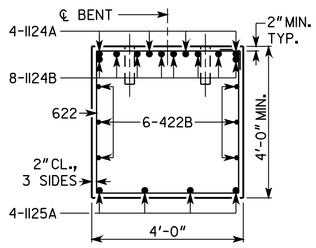
SECTION A-A

½" = 1'-0"



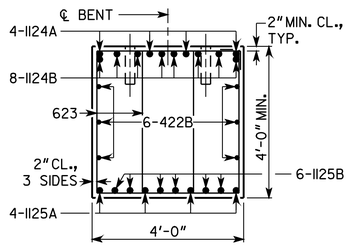
SECTION B-B

½" = 1'-0"



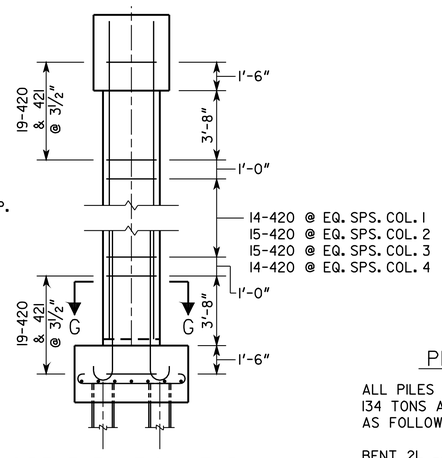
SECTION D-D

½" = 1'-0"



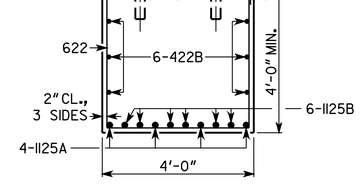
SECTION E-E

½" = 1'-0"



SIDE ELEVATION (TYP.)

NO SCALE



SECTION F-F

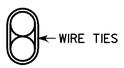
½" = 1'-0"

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 134 TONS AFTER MINIMUM TIP ELEVATIONS ARE ACHEIVED AS FOLLOWS:

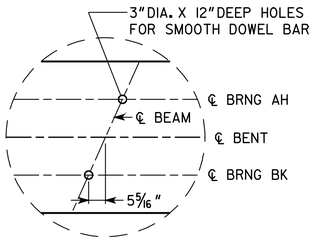
BENT 2L _____ ELEV. 962
BENT 2R _____ ELEV. 943

ALL PILES SHALL BE STEEL H,HP 14X73, GR. 50.



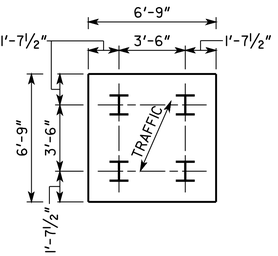
BARS TO BE BUNDLED SHALL BE BUNDLED VERTICALLY

BUNDLING DETAIL



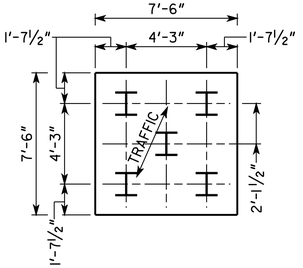
DETAIL "A"

NO SCALE



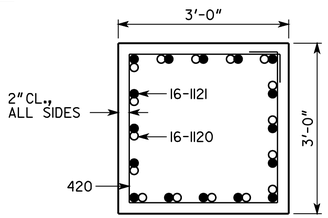
PILE LAYOUT BENT 2L

NO SCALE



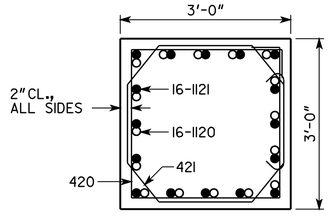
PILE LAYOUT BENT 2R

NO SCALE



SECTION C-C

NO SCALE



SECTION G-G

NO SCALE

SUBSTRUCTURE QUANTITIES		
ITEM	BENT 2L	BENT 2R
CY CLASS AA CONCRETE	39.4	50.9
LB BAR REINF STEEL	12,969	14,569

NOTES:
1. MAINTAIN 2" CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
2. BENT CAP IS SYMETRICAL ABOUT ℄ CAP.

✱ AT CONTRACTOR'S OPTION CONSTRUCTION JOINT MAY BE RELOCATED TO TOP OF FOOTING

BRIDGE NO. 1

THE LPA GROUP LPA
THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

BENT 2 DETAILS
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY CSNHS-0006-00(043)

DRAWING NO. 35-11
BRIDGE SHEET 11 OF 14

REVISIONS | BY | DATE

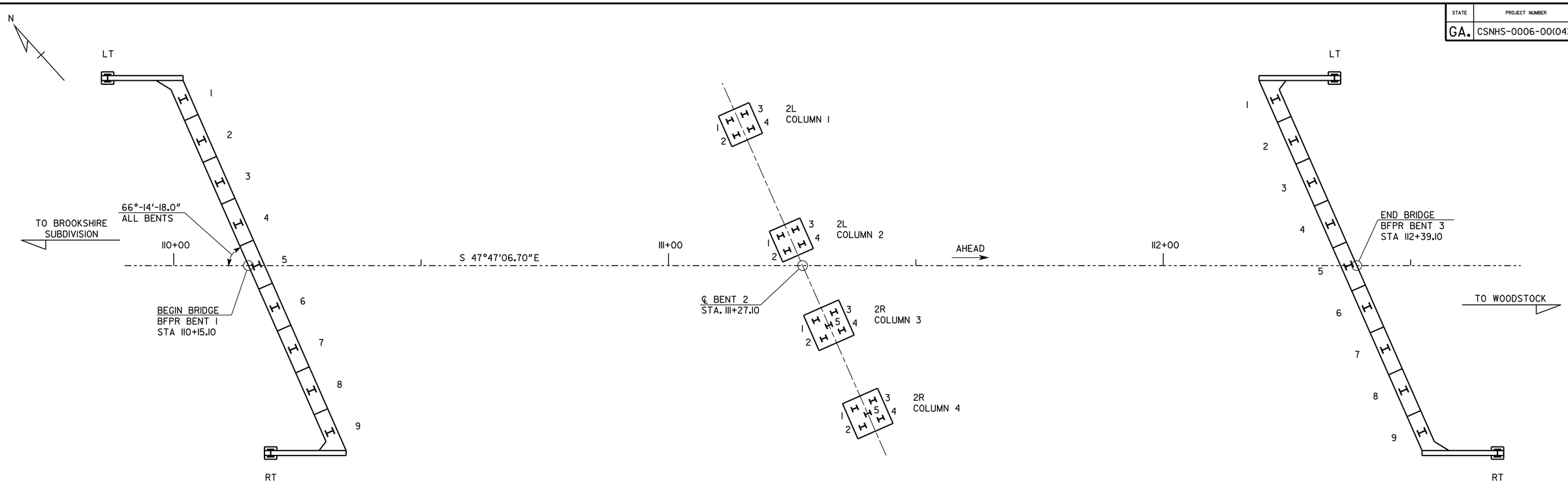
SCALE: AS SHOWN DECEMBER 2010

DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

1 INCH WHEN PRINTED FULL SIZE

RELEASED FOR CONSTRUCTION 12-02-2010

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	440	668



PLAN

AS-BUILT FOUNDATION DATA		
BENT	PILE NO.	PILE TIP ELEVATION
1	LT	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	RT	

AS-BUILT FOUNDATION DATA				
BENT	COL.	PILE NO.	PILE TIP ELEV.	BOTTOM OF FOOTING ELEV.
2L	1	1		
		2		
		3		
		4		
	2	1		
		2		
		3		
		4		
2R	3	1		
		2		
		3		
		4		
		5		
	4	1		
		2		
		3		
		4		
		5		

AS-BUILT FOUNDATION DATA		
BENT	PILE NO.	PILE TIP ELEVATION
3	LT	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	RT	

NOTE: THIS "AS-BUILT FOUNDATION" INFORMATION SHEET IS TO BE FILLED IN BY THE PROJECT ENGINEER AND THE ENTIRE SHEET FORWARDED TO THE BRIDGE OFFICE UPON COMPLETION OF PILE DRIVING AND FOOTING CONTRUCTION FOR POSTING TO THE PLANS AS A PERMANENT RECORD OF THE BRIDGE CONSTRUCTION.

BRIDGE NO. 1

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

AS BUILT FOUNDATION DETAILS

RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSNHS-0006-00(043)

SCALE: NONE DECEMBER 2010

DESIGNED BSB CHECKED ANZ REVIEWED WEI/WMD
DRAWN CJH DESIGN GROUP AWB APPROVED PVL

DRAWING NO. 35-12
BRIDGE SHEET 12 OF 14

DATE | REVISIONS | BY

1 INCH WHEN PRINTED FULL SIZE

RELEASED FOR CONSTRUCTION 12-02-2010

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	AG	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUPERSTRUCTURE																									
SPAN ISTAGE I	I	300	4- 4		I	I																			
		400A	60- 0		45	I																			
		400B	53- 0		45	I																			
		401A	21- 5		25	I																			
		403	5- 6		I	3			4- 6		I- 0														
		403A	6- 7		I	7			I- 3		2- 8		2- 8											47	47
		404A	34- 6		7	I																			
		405A	11- 0		21	31	4	4	0- 9		4- 9		4- 9												
		405B	9- 5		7	25	4	4	0- 9		3- 7														
		407	7- 7		18	I																			
		408A	10- 7		24	25	4	4	0- 7		4- 4														
		408B	9- 9		6	25	4	4	0- 7		3- 11														
		409A	5- 7		113	I																			
		409C	0- 8		58	I																			
		450	2- 6		24	I																			
		451	1- 7		24	I																			
		501A	32- 4		212	I																			
		504A	6- 3		12	46			4- 3		0- 10		0- 3		0- 8		0- 8								
		504B	7- 3		14	46			4- 3		1- 10		0- 3		0- 8		0- 8								
		505A	33- 5		1	I																			
		506	7- 3		46	3			6- 0		1- 3														
		506A	3- 10		24	6			1- 4		1- 3		0- 0		1- 3									45	45
		507A	31- 3		3	I																			
		508A	5- 4		4	I																			
		508B	8- 3		8	I																			
		509A	4- 11		6	I																			
		509B	6- 3		6	I																			
		800A	36- 6		2	I																			
		801A	33- 2		I	I																			
		802	8- 3		4	I																			
		900A	15- 9		7	16	0	0	5- 2		0- 10		0- 10		5- 9		2- 6								
		900B	12- 6		14	16	0	0	5- 2		0- 10		0- 10		2- 6		2- 6								
		900D	8- 10		7	34	0		2- 6		0- 10		5- 2		0- 10										
EPOXY BARS																									
SPAN ISTAGE I	I	490A	60- 0		23	I																			
		490B	53- 3		23	I																			
		491A	21- 5		25	I																			
		590A	33- 9		212	3			32- 9		1- 0														
		592	9- 1		110	31	4	4	0- 9		3- 8		3- 8												
		599	5- 0		5	I																			
		690	10- 0		44	I																			
SUPERSTRUCTURE																									
SPAN ISTAGE II	I	300	4- 4		I	I																			
		400A	60- 0		70	I																			
		400B	53- 0		70	I																			
		401B	21- 2		25	I																			
		403	5- 6		I	3			4- 6		I- 0														
		403A	7- 7		I	8			I- 3		2- 8		2- 8											47	47
		404B	47- 9		7	I																			
		405A	11- 0		35	31	4	4	0- 9		4- 9		4- 9												
		405B	9- 5		9	25	4	4	0- 9		3- 7														
		407	7- 7		24	I																			
		408A	10- 7		32	25	4	4	0- 7		4- 4														
		408B	9- 9		8	25	4	4	0- 7		3- 11														
		409A	5- 7		113	I																			
		409B	2- 9		113	I																			

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	AG	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUPERSTRUCTURE																									
SPAN ISTAGE II	I	409C	0- 8		116	I																			
		450	2- 6		12	I																			
		452	1- 10		12	I																			
		453	1- 4		24	I																			
		501B	43- 5		212	I																			
		504A	6- 3		15	46			4- 3		0- 10		0- 3		0- 8		0- 8								
		504B	7- 3		22	46			4- 3		1- 10		0- 3		0- 8		0- 8								
		505B	46- 7		1	I																			
		506	7- 3		65	3			6- 0		1- 3														
		506A	3- 10		33	6			1- 4		1- 3		0- 0		1- 3									45	45
		507B	44- 2		3	I																			
		508A	5- 4		4	I																			
		508B	8- 3		8	I																			
		509A	4- 11		8	I																			
		509B	6- 3		8	I																			
		800B	47- 6		2	I																			
		801B	44- 1		I	I																			
		802	8- 3		4	I																			
		900B	12- 6		21	16	0	0	5- 2		0- 10		0- 10		2- 6		2- 6								
		900C	14- 8		7	16	0	0	5- 2		0- 10		0- 10		2- 6		4- 8								
		900D	8- 10		7	34	0		2- 6		0- 10		5- 2		0- 10										
EPOXY BARS																									
SPAN ISTAGE II	I	490A	60- 0		32	I																			
		490B	53- 3		32	I																			
		491B	21- 2		25	I																			
		590B	44- 5		212	3			43- 5		1- 0														
		592	9- 1		109	31	4	4	0- 9		3- 8														
		599	5- 0		5	I																			
		690	10- 0		64	I																			
SUPERSTRUCTURE																									
SPAN 2 STAGE I	I	300	4- 4		I	I																			
		400A	60- 0		45	I																			
		400B	53- 0		45	I																			
		401B	21- 2		25	I																			
		403	5- 6		I	3			4- 6		I- 0														
		403A	6- 7		I	7			I- 3		2- 8		2- 8											47	47
		404A	34- 6		7	I																			
		405A	11- 0		21	31	4	4	0- 9		4- 9		4- 9												
		405B	9- 5		7	25	4	4	0- 9		3- 7														
		407	7- 7		18	I																			
		408A	10- 7		24	25	4	4	0- 7		4- 4														
		408B	9- 9		6	25	4	4	0- 7		3- 11														
		409A	5- 7		113	I																			
		409C	0- 8		58	I																			
		450	2- 6		20	I																			
		451	1- 7		20	I																			
		501A	32- 4		212	I																			
		504A	6- 3		12	46			4- 3		0- 10		0- 3		0- 8		0- 8								
		504B	7- 3		14	46			4- 3		1- 10		0- 3		0- 8		0- 8								
		505A	33- 5		1	I																			
		506	7- 3		46	3			6- 0		1- 3														
		506A	3- 10		24	6			1- 4		1- 3		0- 0		1- 3									45	45
		507A	31- 3		3	I																			
		508A	5- 4		4	I																			
		508B	8- 3		8	I																			
		509A	4- 11		6	I																			
		509B	6- 3		6	I																			

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	441	668

RELEASED FOR CONSTRUCTION 12 02 2010

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	AG	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUPERSTRUCTURE																									
SPAN 2 STAGE I	I	800A	36- 6		2	I																			
		801A	33- 2		I	I																			
		802	8- 3		4	I																			
		900B	12- 6		14	16	0	0	5- 2		0- 10		0- 10		2- 6		2- 6								
		900C	14- 8		7	16	0	0	5- 2		0- 10		0- 10		2- 6		4- 8								
		900D	8- 10		7	34	0		2- 6		0- 10		5- 2		0- 10										
EPOXY BARS																									
SPAN 2 STAGE I	I	490A	60- 0		23	I																			
		490B	53- 3		23	I																			
		491B	21- 2		25	I																			
		590A	33- 9		212	3			32- 9		1- 0														
		592	9- 1		109	31	4	4	0- 9		3- 8														
		599	5- 0		5	I																			

BRIDGE NO. I

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3535 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

BAR REINFORCING SCHEDULE

RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSNHS-0006-00(043)

SCALE: NONE DECEMBER 2010

DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN CJH | DESIGN GROUP AWB | APPROVED PVL

DRAWING NO. 35-13

BRIDGE SHEET 13 OF 14

DATE | REVISIONS | BY

1 INCH WHEN PRINTED FULL SIZE

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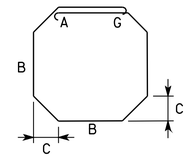
LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	A	G	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUPERSTRUCTURE																										
SPAN 2 STAGE II	1	300	4-	4	1	1																				
		400A	60-	0	70	1																				
		400B	53-	0	70	1																				
		401A	21-	5	25	1																				
		403	5-	6	1	3			4-	6	1-	0														
		403A	6-	7	1	7			1-	3	2-	8	2-	8											47	47
		404B	47-	9	7	1																				
		405A	11-	0	35	31	4	4	0-	9	4-	9	4-	9												
		405B	9-	5	9	25	4	4	0-	9	3-	7														
		407	7-	7	24	1																				
		408A	10-	7	32	25	4	4	0-	7	4-	4														
		408B	9-	9	8	25	4	4	0-	7	3-	11														
		409A	5-	7	113	1																				
		409B	2-	9	113	1																				
		409C	0-	8	116	1																				
		450	2-	6	10	1																				
		452	1-	10	10	1																				
		453	1-	4	20	1																				
		501B	43-	5	212	1																				
		504A	6-	3	15	46			4-	3	0-	10	0-	3	0-	8	0-	8								
		504B	7-	3	22	46			4-	3	1-	10	0-	3	0-	8	0-	8								
		505B	46-	7	1	1																				
		506	7-	3	65	3			6-	0	1-	3														
		506A	3-	10	33	6			1-	4	1-	3	0-	0	1-	3									45	45
		507B	44-	2	3	1																				
		508A	5-	4	4	1																				
		508B	8-	3	8	1																				
		509A	4-	11	8	1																				
		509B	6-	3	8	1																				
		800B	47-	6	2	1																				
		801B	44-	1	1	1																				
		802	8-	3	4	1																				
		900A	15-	9	7	16	0	0	5-	2	0-	10	0-	10	5-	9	2-	6								
		900B	12-	6	21	16	0	0	5-	2	0-	10	0-	10	2-	6	2-	6								
		900D	8-	10	7	34	0		2-	6	0-	10	5-	2	0-	10										
EPOXY BARS																										
SPAN 2 STAGE II	1	490A	60-	0	32	1																				
		490B	53-	3	32	1																				
		491A	21-	5	25	1																				
		590B	44-	5	212	3			43-	5	1-	0														
		592	9-	1	110	31	4	4	0-	9	3-	8	3-	8												
		599	5-	0	5	1																				
SUBSTRUCTURE																										
BENT 1 STAGE I	1	410	6-	9	16	32	5	5	2-	8	1-	8	1-	8												
		411	9-	5	35	25	4	4	2-	8	1-	8														
		412	9-	5	3	25	4	4	2-	2	2-	2														
		413	1-	8	4	1																				
		414A	10-	5	2	1																				
		415	5-	4	10	2			2-	8	1-	4	1-	4												
		510A	8-	10	36	1																				
		511	16-	2	20	1																				
		610A	7-	3	3	1																				
		1010A	44-	7	4	4			42-	9	1-	10													66	

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	A	G	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUBSTRUCTURE																										
BENT 1 STAGE II	1	410	6-	9	20	32	5	5	2-	8	1-	8	1-	8												
		411	9-	5	46	25	4	4	2-	8	1-	8														
		412	9-	5	3	25	4	4	2-	2	2-	2														
		413	1-	8	4	1																				
		414A	10-	5	2	1																				
		415	5-	4	19	2			2-	8	1-	4	1-	4												
		510A	8-	10	36	1																				
		511	16-	2	20	1																				
		610A	7-	3	3	1																				
		1010A	44-	7	4	4			42-	9	1-	10													66	

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	A	G	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUBSTRUCTURE																										
BENT 2 STAGE II	1	410	6-	9	20	32	5	5	2-	8	1-	8	1-	8												
		411	9-	5	46	25	4	4	2-	8	1-	8														
		412	9-	5	3	25	4	4	2-	2	2-	2														
		413	1-	8	4	1																				
		414B	18-	7	2	1																				
		415	5-	4	19	2			2-	8	1-	4	1-	4												
		510A	8-	10	36	1																				
		511	16-	2	20	1																				
		610A	7-	3	3	1																				
		1010A	44-	7	4	4			42-	9	1-	10													66	

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	A	G	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUBSTRUCTURE																										
BENT 2 STAGE II	1	420	11-	5	105	25	4	4	2-	8	2-	8														
		421	11-	7	76	60	5	5	0-	7	1-	6														
		422B	40-	6	6	1																				
		622	15-	9	61	25	4	4	3-	8	3-	8														
		623	13-	3	28	25	4	4	2-	5	3-	8														
		723	8-	8	40	10	1	1	7-	0																
		1120	13-	2	32	9	1		11-	7																
		1121C	24-	1	16	1																				
		1121D	23-	6	16	1																				
		1124A	43-	8	4	10	1	1	40-	6																
		1124B	18-	3	16	1																				
		1125A	40-	6	4	1																				
		1125B	21-	6	6	1																				
SUBSTRUCTURE																										
BENT 3 STAGE I	1	410	6-	9	16	32	5	5	2-	8	1-	8	1-	8												
		411	9-	5	35	25	4	4	2-	8	1-	8														
		412	9-	5	3	25	4	4	2-	2	2-	2														
		413	1-	8	4	1																				
		414B	18-	7	2	1																				
		415	5-	4	10	2			2-	8	1-	4	1-	4												
		510B	8-	8	36	1																				
		511	16-	2	20	1																				
		610B	4-	10	3	1																				
		1010C	43-	3	4	6			40-	11	0-	6	1-	10	0										0	23



421, TYPE 60 IN COLUMN

LOCATION	NO. OF LOC.	MARK	LENGTH FT.	LENGTH IN.	NO. BARS REQ'D.	TYPE	A	G	B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	J FT.	J IN.	K FT.	K IN.	N	θ
SUBSTRUCTURE																										
BENT 3 STAGE II	1	410	6-	9	20	32	5	5	2-	8	1-	8	1-	8												
		411	9-	5	46	25	4	4	2-	8	1-	8														
		412	9-	5	3	25	4	4	2-	2	2-	2														
		413	1-	8	4	1																				
		414A	10-	5	2	1																				
		415	5-	4	19	2			2-	8	1-	4	1-	4												
		510B	8-	8	36	1																				
		511	16-	2	20	1																				
		610A	7-	3	3	1																				
		1010D	48-	10	4	4			47-	0	1-	10													66	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	CSNHS-0006-00(043)	442	668

RELEASED FOR CONSTRUCTION 12-02-2010

BRIDGE NO. 1

THE LPA GROUP

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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

BAR REINFORCING SCHEDULE

RIDGEWALK PARKWAY OVER I-575

CHEROKEE COUNTY CSNHS-0006-00(043)

SCALE: NONE DECEMBER 2010

DESIGNED BSB
DRAWN CJH
CHECKED ANZ
DESIGN GROUP AWB
REVIEWED WEI/WMD
APPROVED PVL

DRAWING NO. 35-14

BRIDGE SHEET 14 OF 14

DATE / REVISIONS / BY

1 INCH WHEN PRINTED FULL SIZE

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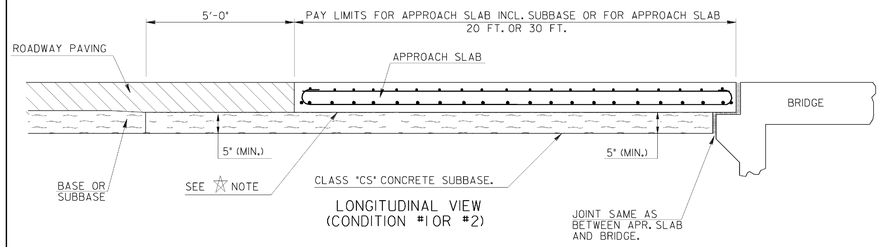
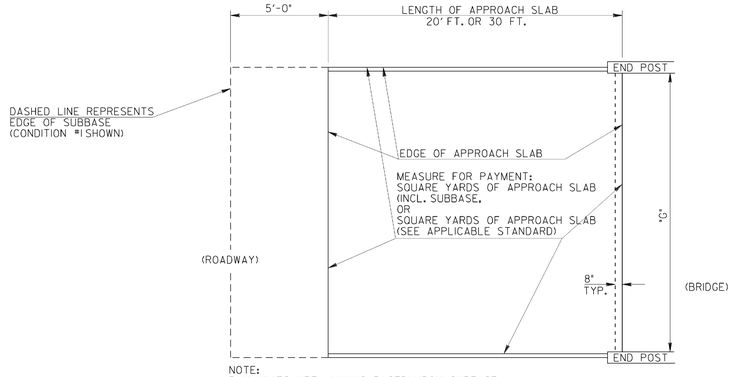


LONGITUDINAL VIEW
(CONDITION #1 OR #2)



NOTE:
PAY LIMITS ARE ALWAYS BASED UPON SURFACE OF APPROACH SLAB ONLY (EITHER CONDITION).

PLAN VIEW

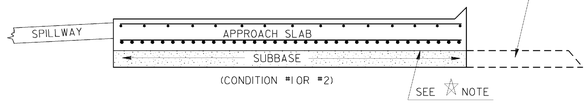
"D"	⊗ CUBIC YARDS OF SUBBASE FOR APPROACH SLAB			
	STD. 9017K	STD. 9017L	STD. 9017P	STD. 9017Q
28'-0"	15.63	11.08		
29'-6"			16.47	11.67
30'-0"				
31'6"			17.54	12.43
32'-0"	17.75	12.58		
33'-6"			18.60	13.18
34'-0"				
35'-6"			19.67	13.94
36'-0"	19.87	14.08		
37'-6"			20.74	14.70
38'-0"				
39'-6"			21.81	15.46
40'-0"	21.99	15.59		
41'-6"			22.88	16.21
42'-0"	23.05	16.34		
43'-6'			23.94	16.97
44'-0"				
45'-6"			25.01	17.73
46'-0"		17.84		
47'-6"			26.08	
48'-0"	26.23	18.59		
49'-6"			27.15	
50'-0"				
51'-6"			28.22	
52'-0"	28.35			
53'-6"			29.29	
54'-0"				
55'-6"			30.35	
56'-0"				
57'-6"			31.42	
58'-0"	31.53			
59'-6"			32.49	
60'-0"	32.59			
61'-6"			35.56	
62'-0"	33.65			
63'-6"			34.63	
64'-0"	34.71			
65'-6"			35.70	
66'-0"	35.77			

⊗ QUANTITES GIVEN IN THE TABLE ARE BASED UPON MINIMUM DIMENSIONS AND ARE GIVEN FOR INFORMATION ONLY.

CUBIC YARDS OF SUBBASE FOR USE WITH STD. 9017M, STD. 9017N OR FOR USE WITH SLAB SIZES NOT GIVEN IN TABLE, MAY BE ESTIMATED WITH THE FOLLOWING FORMULAE:

FOR 30' APPROACH SLABS:
CU. YARDS = 0.5298 TIMES SLAB WIDTH (IN FEET)

FOR 20' APPROACH SLABS:
CUBIC YARDS = 0.3755 TIMES SLAB WIDTH (IN FEET)

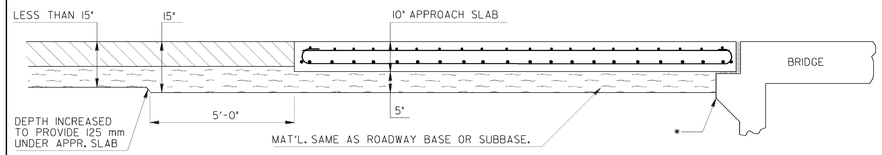


CROSS SECTIONAL VIEW

NOTE: SUBBASE SHOWN ABOVE FOR APPROACH SLAB WITH SPILLWAY ON ONE SIDE AND SLOPED EDGE ON OTHER SIDE. SUBBASE DETAILS SIMILAR FOR APPROACH SLAB WITH TRANSITION CURB OR OTHER DRAINAGE STRUCTURES.

IF MAT'L. UNDER APPROACH SLAB IS FLEXIBLE ENOUGH TO ALLOW DRIVING OF GUARDRAIL POST, THE LIMITS SHALL BE EXTENDED SIMILARLY TO THAT ON THE ROADWAY.

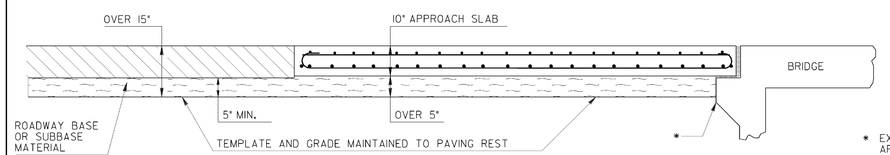
☆ NOTE:
IF "CS" CONCRETE OR P.C. CONC. SUBBASE IS USED, CLEAR POLYETHYLENE SHEETING 8 MILS. MIN. THICKNESS, WITH A 6" OVERLAP, UNIFORMALLY LAYED, SHALL BE REQUIRED UNDER THE APPROACH SLAB TO PREVENT BONDING POLYETHYLENE SHEETING SHALL BE NEW, UNUSED AND FREE OF HOLES, RIPS AND TEARS.



LONGITUDINAL VIEW
(CONDITION #2)

CONDITION #1:
WHERE THE CONTRACT FOR THE BRIDGE AND APPROACH SLABS IS LET SEPARATE FROM THE ROADWAY PAVING CONTRACT, THE SUBBASE FOR THE APPROACH SLAB WILL BE CLASS "CS" CONCRETE ACCORDING TO SECTION 500. IN THIS CASE, PAYMENT FOR THE SUBBASE WILL BE INCLUDED IN THE PAYMENT FOR THE APPROACH SLAB.

CONDITION #2:
WHERE THE ROADWAY PAVING AND THE BRIDGE ARE LET UNDER THE SAME CONTRACT, THE APPROACH SLAB SUBBASE MAY BE EITHER CLASS "CS" CONCRETE OR MAY BE THE SAME MATERIAL AS REQUIRED FOR THE ROADWAY BASE OR SUBBASE SUCH AS GRADED AGGREGATE, P.C. CONC. SUBBASE, ETC. IN THIS CASE, PAYMENT FOR THE SUBBASE WILL BE INCLUDED IN THE PAYMENT FOR THE APPROACH SLAB.



LONGITUDINAL VIEW
(CONDITION #2)

* EXPANSION JOINT REQ'D. SAME AS BETWEEN APPROACH SLAB & BRIDGE, IF SUBBASE IS PORTLANT CEMENT CONCRETE OR CLASS "CS" CONCRETE.

G.L.O.	BY	REVISED NOTES PAY ITEM - COND. #2 REVISION	3-28-06 6-14-88 DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

SUBBASES FOR APPROACH SLABS

NO SCALE — REV. & REDRAWN OCT. 1985

NUMBER M-2

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RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-001

RELEASED FOR CONSTRUCTION 12/02/10

PICTORIAL VIEW (TYPE 7-CS)

PICTORIAL VIEW FOR TYPE 7-RS SHALL BE SIMILAR TO VIEW SHOWN, BUT WITHOUT COLUMN.

BRIDGE COLUMN (TYPICAL)

TYPE 7-CS CONCRETE SIDE BARRIER

SEE SECTION AT BOTTOM MIDDLE FOR MAX. & MIN.

NOTE: IF TYPE 7-CS BARRIER IS LONG ENOUGH TO REQUIRE JOINT(S) (SEE GENERAL NOTE, NO. 6) THE JOINT(S) SHALL BE CENTERED IN FRONT OF A COLUMN. REINFORCING WILL NOT EXTEND THRU EITHER EXPANSION OR CONTRACTION JOINTS.

NOTE: IF DRAINAGE BACK OF TYPE 7-CS IS TOWARD BARRIER BACK, 3" ø WEEP HOLES SHALL BE REQUIRED BETWEEN COLUMNS AND LOCATED AS DIRECTED BY THE ENGINEER.

ELEVATION (TYPE 7-TS) (GUARDRAIL ATTACHMENT)

END OF BARRIER; TOP OF BARRIER; BARRIER TOP TRANSITION; LONGITUDINAL BAR SPACING; 2-#5 STREAM HT.; BARRIER HT.; TOP OF PAVEMENT; 6" CL. (MIN)

NOTE: SEE STANDARD 4270 FOR DETAILS OF GUARDRAIL, SPECIAL END SHOE, 1/2" GALV. PLATE AND RELATED ITEMS.

SECTION B-B (TYPE 7-TS)

2 #4 BARS, 8'-0" LONG (8" TAPER)

12"x1/2"x20¼" GALV. PLATE OR 5-3"x12"x3" GALV. PLATES

NUTS & WASHERS (GALV.)

FIVE 7/8" ø BOLTS (GALV.) IN 1" ø HOLES

#4 BARS (VERTICAL) @ 6" o.c. EA. SIDE

10-#4 BARS, 11'-5" LONG

ROADWAY PAVEMENT; SHOULDER; 6" CL. (MIN)

REINFORCING FOR TYPE 7-TS (NO SCALE)

FIVE 1" ø HOLES CAST IN BARRIER; #4 BARS; #4 VERT. BARS @ 6" O.C. MAX.; VAR. LENGTH OF TR 7-CS OR 7-RS AS SPECIFIED.

PICTORIAL VIEW (TYPE 7-WS)

RETAINING WALL (TYPE AS SPECIFIED)

TYPE 7-S CONC. SIDE BARRIER

NOTE: IF WALL HAS WEEP HOLES, TYPE 7-WS BARRIER SHALL HAVE WEEP HOLES TO MATCH (WHERE FEASIBLE, AN UNDERDRAIN SYSTEM BEHIND THE WALL SHOULD BE USED INSTEAD OF WEEP HOLES, SO THAT CONSTRUCTION OF THE SIDE BARRIER WILL BE EASIER. IF PLANS SPECIFY WEEPHOLES THRU THE WALL, THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE AN APPROVED UNDERDRAIN SYSTEM FOR NO ADDITIONAL PAYMENT.)

TYPE 2-S

½" ROUNDING (DO NOT CHAMFER); TYP. LONGIT. BAR SPA.; #4 BARS AT 6" O.C.

NOTE: MINIMUM BEARING CAPACITY FOR FOUNDATION UNDER TYPE 2S BARRIER SHALL BE ONE TON PER SQUARE FOOT.

OPTIONAL CONSTR. JOINTS; #4 LONGIT. BARS AT 12" O.C. MAX. SPACING; 2:1 MAX. SLOPE; #4 BARS AT 12" O.C.; 10 #4 BARS EQUALLY SPA.; #4 BARS AT 12" O.C.

TYPE 6-S (SEE STANDARD 9031-L IF GRAVITY WALL WITH BARRIER FACE IS DESIRED)

FLAT BACKFILL; SLOPED BACKFILL; d = DITCH DEPTH, 9"- 12" TYP. SEE PLANS FOR REQ'D. DESIGN.

NOTE: MINIMUM BEARING CAPACITY FOR FOUNDATION UNDER TYPE 6S FOOTING SHALL BE 1 TON/SQ.FT. MAINTAIN 3" CL. ON ALL FOOTING STEEL AND 2" CL. ON ALL OTHER STEEL.

◈ ALTERNATE "A" (NOT SHOWN) CONTINUOUS SYNTHETIC DRAINAGE BLANKET (GA. D.O.T. QUALIFIED PRODUCTS LIST #47) BEHIND BARRIER.

CONTINUOUS BLANKET OF FINE AGGREGATE UNDERDRAIN MATERIAL OR #10 CONC. SAND; #8 MESH SCREEN; 1 CU. FT. #89 OR #789 STONE IN BURLAP BAG AT EACH WEEPHOLE; ◈ ALTERNATE "B"; 3" I.D. WEEPHOLES AT 8' O.C.; REQ'D. CONSTR. JT.; #4 BARS AT 18" O.C.; #4 BARS IN FOOTING SPACED AS SHOWN

BACKFILL SLOPE	MAX. "x"
FLAT	21.9"
UP TO 4:1	6'-9"
UP TO 2:1	4'-6"

◈ DRAINAGE ALTERNATE MAY BE OMITTED IF "x" DOES NOT EXCEED 5'-0"

TRAFFIC FLOW

NOTE: SEE SEPARATE STANDARD ✻ FOR GUARDRAIL ANCHORAGE DETAILS.

12'-6" MIN. OF "W" BEAM GUARDRAIL; 20'-7½" (MIN.) OF "T" BEAM GUARDRAIL (PAYMENT INCLUDES ALL ITEMS BETWEEN THESE LINES); NORMAL POST SPACING; 8 POSTS WITHIN THESE LIMITS; GUARDRAIL ANCHORAGE AS SPECIFIED

10.5 LIN. FT. OF TYPE 7-TS CONC. SIDE BARRIER; VAR. LIN. FT. CONC. SIDE BARRIER, TYPE AS SPECIFIED

7'-0" TRANSITION HT. FROM 2'-2½" TO 3'-6"; SEE NOTE 8.; SHOULDER; SEE GEN. NOTE #4.; SPEC. END SHOE; 3" ø WEEP HOLES REQ'D. IF DRAIN IS TO BACK OF BARRIER AND BETWEEN COLUMNS.

BRIDGE COLUMNS (SHOWN FOR TYPE 7CS)

PLAN VIEW (TRANSITION FOR AND ATTACHMENT TO GUARDRAIL)

GUARDRAIL: THE LENGTH OF ADVANCEMENT VARIES PER INDIVIDUAL SITE AND SHALL BE ENOUGH TO PREVENT ERRANT VEHICLE PENETRATION INTO FIXED OBJECT.

POSTS & OFFSET BLOCKS DEPICTED FOR GUARDRAIL ARE TYPICAL, SEE APPLICABLE STANDARD.

① "T" BEAM TO "W" BEAM GUARDRAIL TRANSITION SECTION (STD. 4270)

② DOUBLE THICKNESS (ONE RAIL SECTION INSET IN ANOTHER) "T" BEAM GUARDRAIL (STD. 4012-C)

THIS DIMENSION IS VARIED TO SUIT INDIVIDUAL SITE, BUT SHOULD NOT BE LESS THAN APPROXIMATELY 3 FT., TO ALLOW ROOM FOR CONNECTING GUARDRAIL. CONCRETE SIDE BARRIER SHOULD BEGIN AT A POINT WHICH WILL PROVIDE A NEAT AND DESIRABLE RELATION WITH ADJACENT ELEMENTS, SUCH AS CONCRETE SLOPE PAVING, SHOULDER PAVING, BACK SLOPE, DITCH, GUTTER, ETC. EXACT LOCATION WILL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

SECTION C-C (FOR TYPE 7-CS or 7-RS)

1-6; VARIES; BRIDGE COLUMN (SHOWN FOR TYPE 7-CS ONLY); #5 BARS @ 6" C.TO C.; 30# ASPHALT SATURATED FELT (OR OTHER APPROVED TYPE BOND BREAKER); APPROX. EQUALLY SPACED #5 ø FOR TYPE 7-CS #3 ø FOR TYPE 7-RS; 4 FT. MIN; SHOULDER; SIX (6) #4 BARS; 3'-0" MAX. 12" MIN.; ROADWAY PAVEMENT; SHOULDER; 6" MIN.; 8" MIN.; REQ'D. GRADED AGGREGATE BASE

⊕ TYPE 7-RS REQUIRES 12" MIN. DEPTH FOR 4' MIN. BEHIND BARRIER.

WHERE APPLICABLE, REMOVE EXISTING PAV., BASE MAT'L, ETC., AS NEEDED, TO INSTALL BARRIER. REMOVED ITEMS TO BE RECONSTRUCTED IN KIND AFTER COMPLETION OF THE BARRIER.

TYPE 7-WS

1/2" ROUNDING (DO NOT CHAMFER); VARIES; (GRAVITY TYPE WALL ILLUSTRATED HERE; REINF. RETAINING WALL MAY BE SPECIFIED); (NON-REINF.); (MIN.); GRADED AGGREGATE BASE; 6" MIN.; 6" MIN.; 1'-4"

EXPANSION MATERIAL OR OTHER APPROVED TYPE BOND BREAKER.

— VOIDS WILL NOT BE PERMITTED BETWEEN BARRIER AND WALL. OPENINGS WILL BE GROUT FILLED.

BARRIER TYPE LOCATIONS	
TYPE	LOCATION
2-S	FILLS SECTION
7-CS	AT BRIDGE COLUMNS
7-RS	ALONG ROADSIDE — FREESTANDING, MIN. 12" DEPTH BEHIND BARRIER FOR 4 FT. MIN.
7-WS	ALONG RETAINING WALL (TYPE AS SPECIFIED); BUT NOT ALONG BOUND. BARRIER.
6-S	AT EMBANKMENT TO BE RETAINED (CUT SECTION)
7-TB	AT GUARDRAIL ATTACHMENT

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO. ALL CONCRETE SHALL BE CLASS "A". SURFACE FINISHES REQUIRED ONLY WHERE SPECIFIED; SEE SECTION 500.
2. GRADE AND ALIGNMENT OF BARRIER TOP SURFACE SHALL NOT VARY FROM THE ESTABLISHED LINE AND GRADE MORE THAN 1/8" IN 10'-0" WHEN CHECKED WITH A STRAIGHT EDGE OF NOT LESS THAN 10'-0" IN LENGTH.
3. WHERE GUARDRAIL ATTACHMENT IS REQUIRED, PAYMENT FOR CONCRETE SIDE BARRIER, TYPE 7-TS, SHALL INCLUDE THE TRANSITION, TAPER, AND THE FIVE 1" ø HOLES PROPERLY LOCATED FOR CONNECTING THE SPECIAL END SHOE. PAYMENT FOR GUARDRAIL INCLUDES THE SPECIAL END SHOE, ALL CONNECTING HARDWARE, ADD'L. POSTS & DOUBLE (INSET) "T" BEAM.
4. IF GUARDRAIL IS WARRANTED ON THE TRAILING END OF SIDE BARRIER WITH ONE-WAY TRAFFIC, BARRIER ENDS TRANSITION AND ADDITIONAL GUARDRAIL POSTS ARE NOT REQUIRED.
5. IF THE EDGE OF THE TRAVEL LANE TO THE FACE OF THE CONCRETE BARRIER IS MORE THAN APPROXIMATELY 15 FT., CONSIDERATION SHOULD BE GIVEN TO CONTINUING GUARDRAIL RATHER THAN USING CONCRETE SIDE BARRIER.
6. ALL CONCRETE SIDE BARRIERS OVER 20 FT. IN LENGTH SHALL HAVE CONTRACTION JOINTS AT 20 FT. MAXIMUM SPACINGS. IF SAWED, CONTRACTION JOINT CUT SHALL BE 1/4" WIDE AND 2" DEEP. ALL CONCRETE SIDE BARRIERS OVER 200 FT. IN LENGTH SHALL HAVE EXPANSION JOINTS AT 200 FT MAXIMUM SPACINGS, A 1 IN. PREFORMED JOINT FILLER SHALL BE USED AT THE EXPANSION JOINTS. DISTANCE BETWEEN JOINTS SHOULD BE EQUAL (APPROXIMATELY).
7. LOCATE OVERHEAD SIGN SUPPORTS BACK OF SIDE BARRIER IF FEASIBLE; WHERE CONDITIONS NECESSITATE LOCATION ON BARRIER TOP, SUPPORT FOOTING FOR SIGN SHALL BE DESIGNED BY CONTRACTOR, APPROVED BY THE D.O.T. PRIOR TO CONSTRUCTION. SEE SEPARATE DETAILS FOR TYPE 2-CS SIDE BARRIER, IF REQUIRED.
8. LONGITUDINAL REINFORCING OF TYPE 7-TS AND TYPE 7-CS (or RS) SHALL EXTEND INTO EACH OTHER 12'-9" EACH SIDE AT THEIR JUNCTION.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	HPP IM-85-2(140)	1317	1418

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

MODIFIED STANDARD № 4948
SPECIAL DESIGN
CONCRETE SIDE BARRIER
TP'S. 2-S, 6-S, 7-CS, 7-RS, 7-WS, & 7-TS

NO SCALE — MAY, 1995

BY	REVISION	DATE
	ANGL. TYPE	12-29-95

DES. — (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
DRW. R.M.H.
TRA. D.R.Z.
CHK. K.J.C. (APPROVED) STATE HIGHWAY ENGINEER

FORM EPS

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

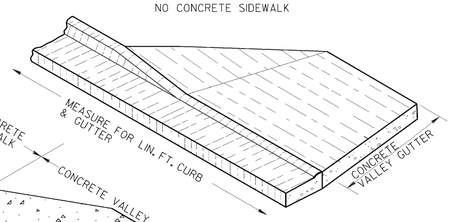
DRAWING No. 40-002

RELEASED FOR CONSTRUCTION 12/02/10

1/27/2004 10:48:38 AM \\GDOT-DSN1\GOPLOT\GCF\GO_TIFF_OUTPUT.GCF GDARBY S:\CONSTRUCTION_DETAILS\ENGLISH_CONSTRUCTION_DETAILS (.PRF)\A1.PRF GO-R06

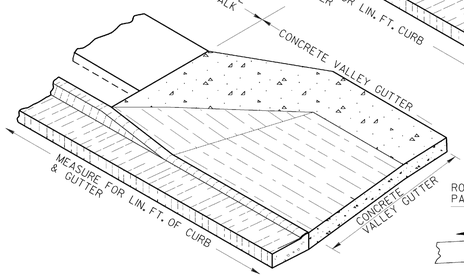
PICTORIAL SECTION

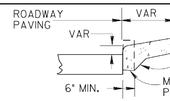
NO CONCRETE SIDEWALK



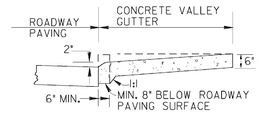
PICTORIAL SECTION

DRIVE & CONRETE SIDEWALK



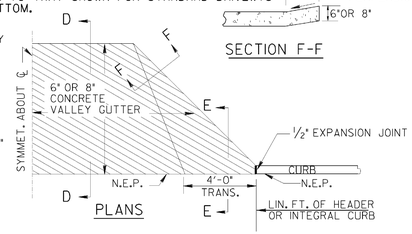


SECTION E-E

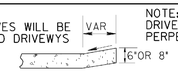


SECTION D-D

NOTE:
DETAILS NOT SHOWN FOR MODIFIED DRIVES WILL BE SIMILAR TO THAT SHOWN FOR STANDARD DRIVEWYS AT BOTTOM.

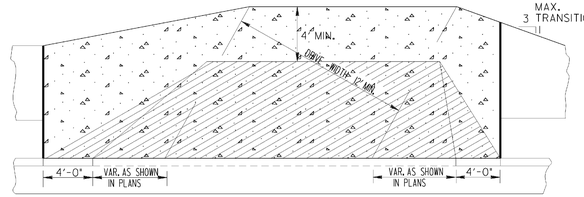


PLANS



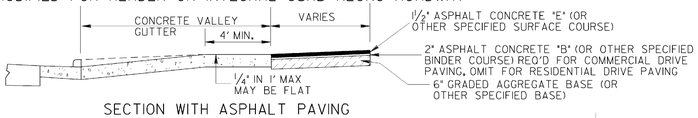
SECTION F-F

NOTE:
DRIVES WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.

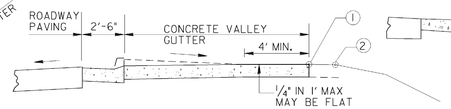


DRIVE ENTRANCE MODIFIED FOR SKEW

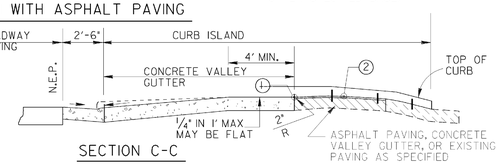
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY



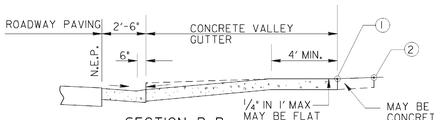
SECTION WITH ASPHALT PAVING



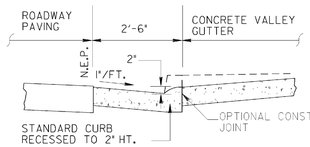
(SPECIAL CASE FOR SECTION B-B OR SECTION C-C; WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)



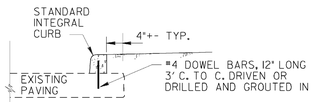
SECTION C-C



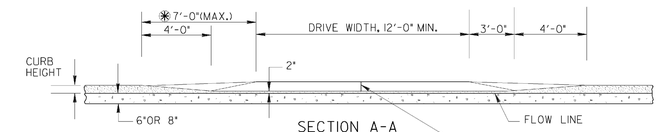
SECTION B-B



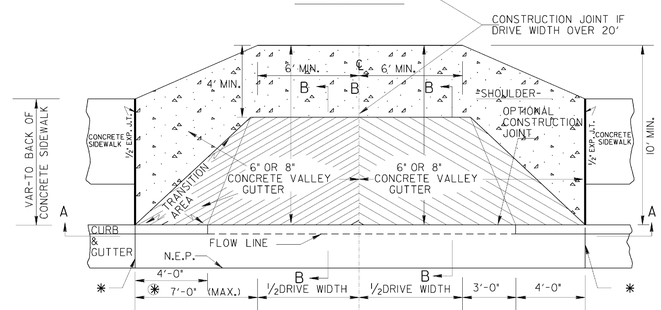
NOTE:
ALTERNATES TO THE CURB ISLAND DESIGN SHOWN HERE MAY BE SPECIFIED IN THE PLANS.



DOWELED CURB DETAIL



SECTION A-A



✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF THE CURB.

HALF SECTION

SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

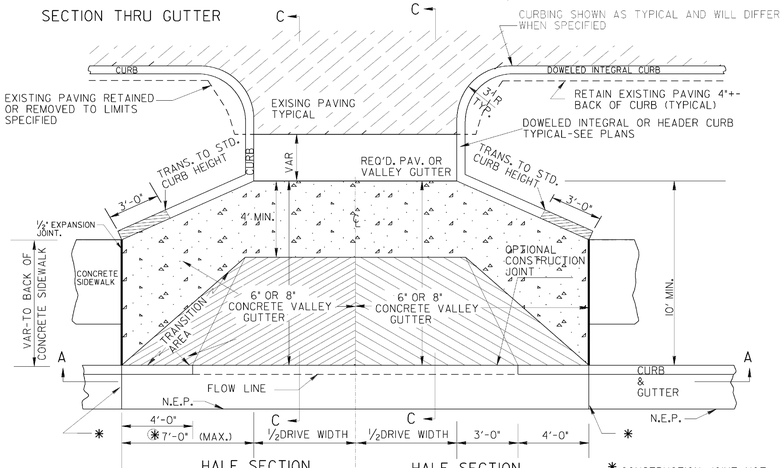
PLAN

HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

SECTION THRU GUTTER



HALF SECTION

SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

PLAN

HALF SECTION

PLAN

(SHOWN ADJACENT TO EXISTING PAVED PARKING AREA)

DRIVEWAY WITH CURB ISLAND

✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF CURB.

✱ 7'-0" OR DISTANCE EQUAL TO THAT FROM BACK OF CURB TO BACK OF SIDEWALK, WHICHEVER IS LESSER

GENERAL NOTES:

1. QUANTITIES WILL BE MEASURED AS FOLLOWS:
   (A) CONCRETE CURB & GUTTER ALONG ROADWAY--- LIN. FT. OF CURB & GUTTER WILL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB & GUTTER WILL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB. SQ. YDS. OF CONCRETE VALLEY GUTTER WILL BE MEASURED FOR PAYMENT TO THE BACK OF THE CURB LINE.
   (B) HEADER (OR INTEGRAL) CURB ALONG ROADWAY--- LIN. FT. OF CURB WILL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVE WAY. SQ. YDS. OF CONCRETE VALLEY GUTTER WILL BE MEASURED FOR PAYMENT TO THE EDGE OF THE ROADWAY PAVING.
2. N.E.P. IS DEFINED AS THE POINT WHERE THE ROADWAY PAVING MEETS THE CURB & GUTTER, OR HEADER CURB, OR FACE OR THE INTEGRAL CURB.
3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E, ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COARSE FOR EARTH.
4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB & GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.
5. WIDTHS OF COMMERCIAL DRIVEWAYS WILL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL". WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS WILL BE AS SPECIFIED IN THE PLANS.
6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8.33% (12:1) WHERE SIDEWALKS ARE LOCATED.
7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

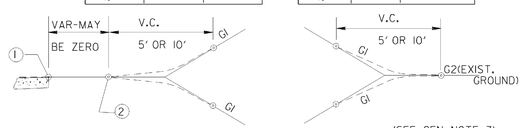
(1) IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

(2) IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: (1) AND (2) MAY COINCIDE

V.C.	MAXIMUM GI CUT	MAXIMUM GI FILL
5'	27%	16.67%
10'	28%	27%

V.C.	GI-G2 (MAX. ALGEBRAIC GRADE CHANGE) SAG	GI-G2 (MAX. ALGEBRAIC GRADE CHANGE) CREST
5'	21%	25%
10'	25%	36%



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)

This Detail Replaces Ga Standard 6050

DATE	REVISION	BY
4-11-02	REVISED	
4-3-02	REVISED	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS

NO SCALE | MARCH 12, 2002

A1

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

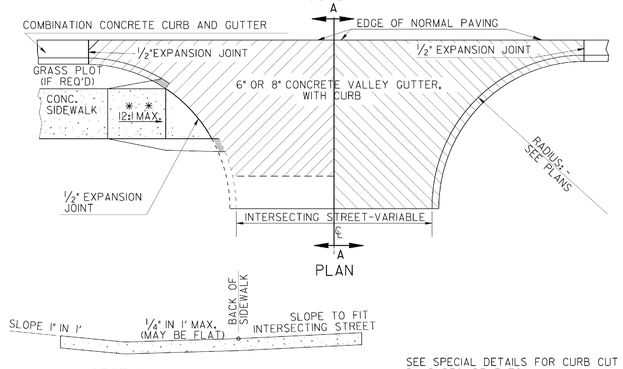
CONSTRUCTION DETAILS

DRAWING No. 40-003

3/1/2007 GPLN

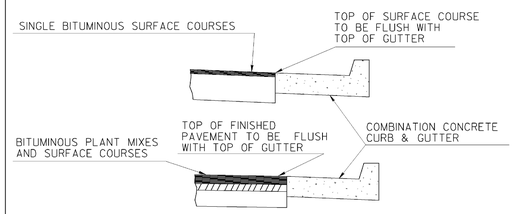
RELEASED FOR CONSTRUCTION 12/02/10

DETAIL OF CONCRETE VALLEY GUTTER WITH CURB

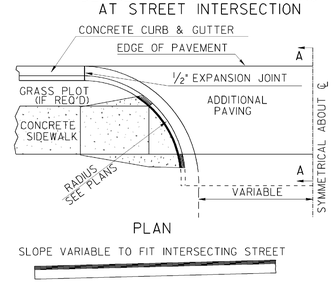


SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

DETAIL OF PLACING PAVEMENT ADJACENT TO GUTTER



DETAIL OF ADDITIONAL PAVING AT STREET INTERSECTION

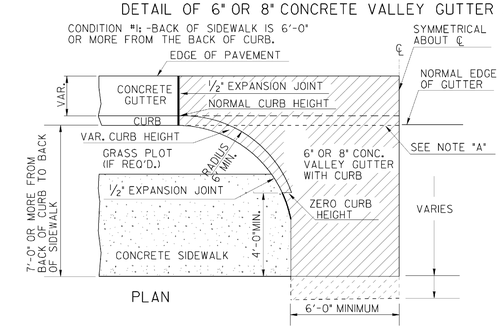


NOTE:
ADDITIONAL PAVING TO EXTEND TO END OF RETURN WHEN NO CONCRETE SIDEWALK IS SET UP.

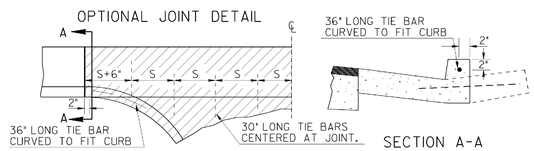
** SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE WITHOUT CURB

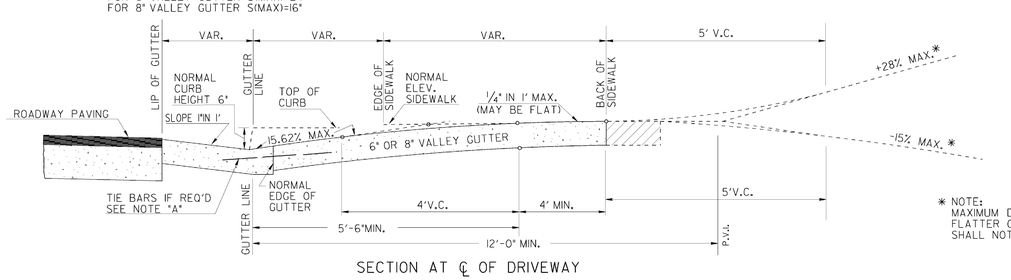


NOTE: "A"
CONSTRUCTION JOINT OPTIONAL: -WHEN IMPLEMENTED #4 TIE BARS WILL BE REQUIRED AS SHOWN BELOW TO BE INCLUDED IN UNIT PRICE FOR VALLEY GUTTER. IF CURB IS POURED THROUGH VALLEY GUTTER, THE TOP PORTION WILL BE REMOVED BEFORE SETTING TO MATCH GRADE OF VALLEY GUTTER.



CONDITION "I-BACK OF SIDEWALK IS 7'-0" OR MORE FROM BACK OF CURB.

ZERO CURB HT. TO BE A MINIMUM OF 3'-2" FROM GUTTER LINE. IF CURB TRANSITION EXTENDS PAST EDGE OF SIDEWALK. THE TOP OF THE VARIABLE HEIGHT CURB IS TO REMAIN FLUSH WITH THE TOP OF THE SIDEWALK THROUGHTOUT TRANSITION. ZERO CURB HEIGHT WILL BE A MINMUM OF 4'-0" FROM BACK OF SIDEWALK.



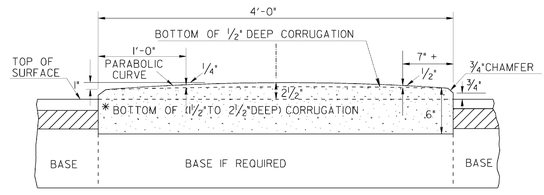
SEE SPECIAL DETAILS FOR DETAILS OF CONCRETE SIDEWALK.

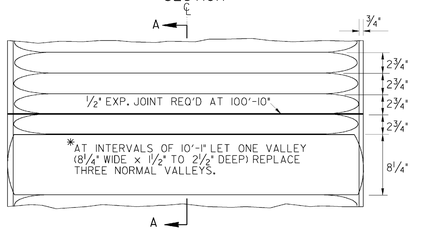
PERCENTAGE OF ASCENDING GRADE MAY BE INCREASED AT A DISTANCE OF 23' FROM THE GUTTER LINE. *

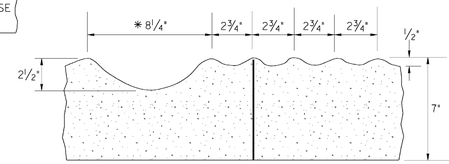
PERCENTAGE DESCENDING GRADE MAY BE INCREASED AT A DISTANCE 18' FROM THE GUTTER LINE. *

* NOTE:
MAXIMUM DRIVEWAY GRADES SHOWN ABOVE ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

DETAIL OF 4' CORRUGATED CONCRETE MEDIAN







* APPLIES ONLY TO SUPERELEVATED CURVES, INCLUDING TRANSITIONS.

This Detail Replaces Ga Standard 9031J

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

REVISION	BY	DATE
REVISED		2-21-03
REVISED		4-11-02
REVISED		4-3-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE VALLEY GUTTER AT STREET INTERSECTION
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION

4' CORRUGATED CONCRETE MEDIAN

NO SCALE | MARCH 12, 2002

A2

LOCATION TO BE AT LEAST 5' FROM EXISTING OR PROPOSED UTILITY CONNECTION (SEE DETAILS FOR CONSTRUCTION DETAILS FOR CLEARANCE)

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(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

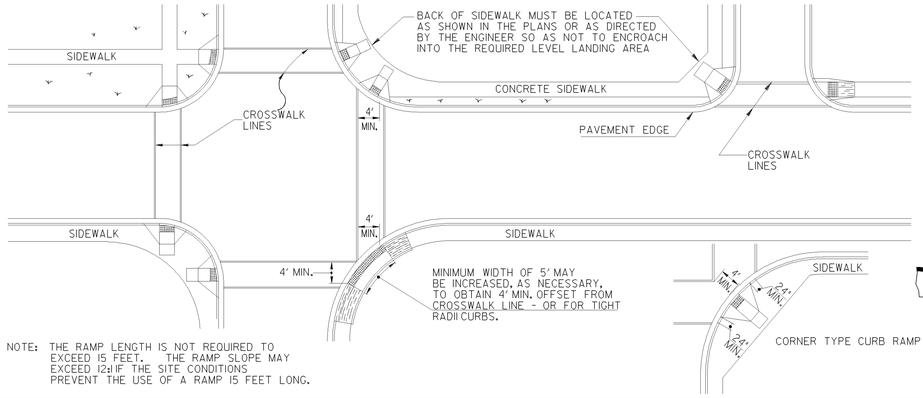
DRAWING No. 40-004

3/1/2007 GPLN

6/18/2009 1:42:30 PM \\GDOT-DSN\GDPLOT\QCF\go_tiff_output.qcf gowens V:\GARY\ada ramp details\a3.prf GO-R06

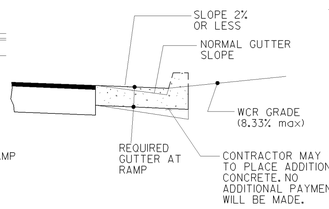
RELEASED FOR CONSTRUCTION 12/02/10

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

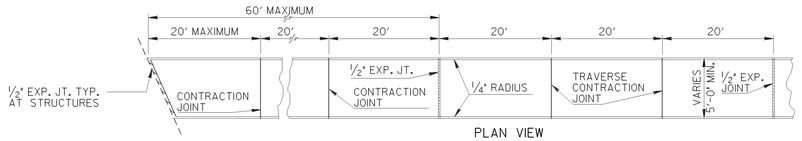


NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

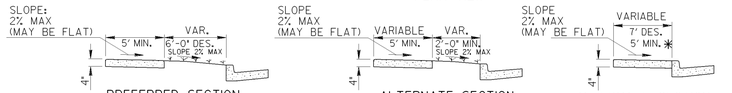
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS



PLAN VIEW



*16' SHOULDER RECOMMENDED WITH THIS INSTALLATION

*5' MIN WIDTH WITH NO OBSTRUCTIONS (MAILBOXS, SIGNS, ETC)

7' PREFERRED WIDTH WITH A 2' AREA OF CONTRASTING COLOR & TEXTURE ADJACENT TO THE CURB. (COST OF TEXTURE, COLORING & HOLES REQUIRED FOR MAILBOX AND SIGN POST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK)

NOTES FOR CONCRETE SIDEWALK:

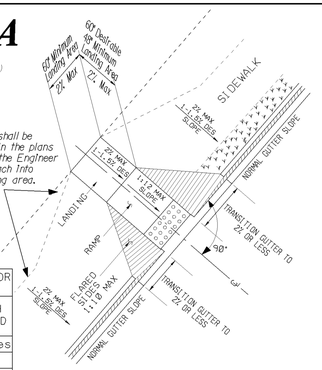
A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.
B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC.. WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION.
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

Type A

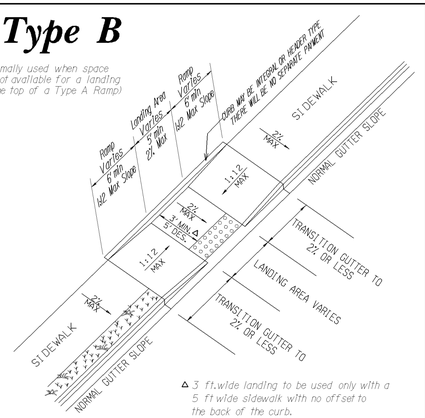
(The Prefered Ramp)



LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	10 Inches
2 Inches	1'-8"
3 Inches	2'-6"
4 Inches	3'-4"
5 Inches	4'-2"
6 Inches	5 feet

Type B

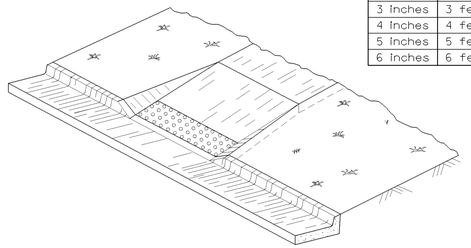
(Normally used when space Is not available for a landing at the top of a Type A Ramp)



△ 3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.

Type D

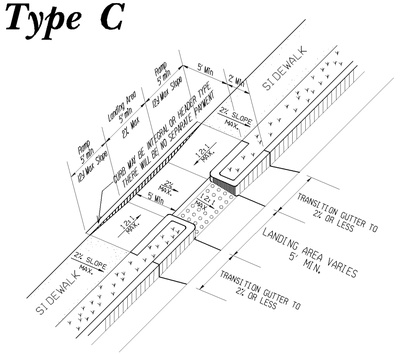
(Normally used when the sidewalk ties directly into the crosswalk)



IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 Inch	1 foot
2 Inches	2 feet
3 Inches	3 feet
4 Inches	4 feet
5 Inches	5 feet
6 Inches	6 feet

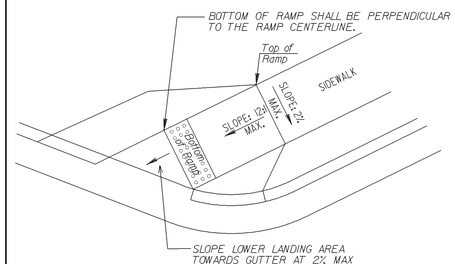
Type C

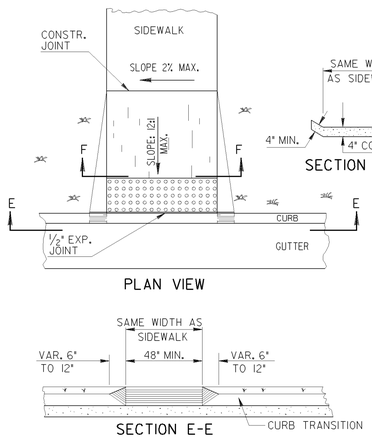


Skewed Ramp Details

(Applies to Type A & Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.





REVISION	DATE	BY
REV. SLOPES TO PERCENT AND ADDED 12:1 & 10:1 CHART. ADDED GEN. NOTE NO. 8.	6-18-09	GLO
REVISED	5-10-06	
REV. TRUNCATED DOMES	2-21-03	GLO
REVISED	2-10-03	
REVISED	7-29-02	
REVISED	5-29-02	
REVISED	5-23-02	
REVISED	5-13-02	
REVISED	4-29-02	
REVISED	4"-02	
REVISED	4-3-02	
REVISED	3-28-02	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE — MARCH 12, 2002

NUMBER A3

This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

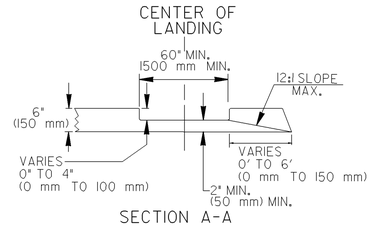
CONSTRUCTION DETAILS

DRAWING No. 40-005

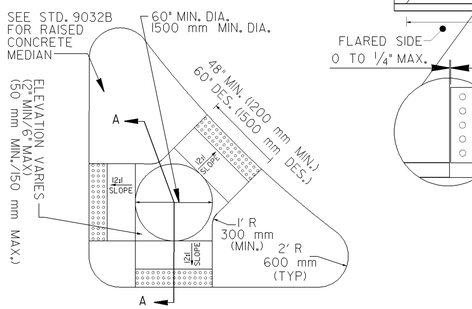
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

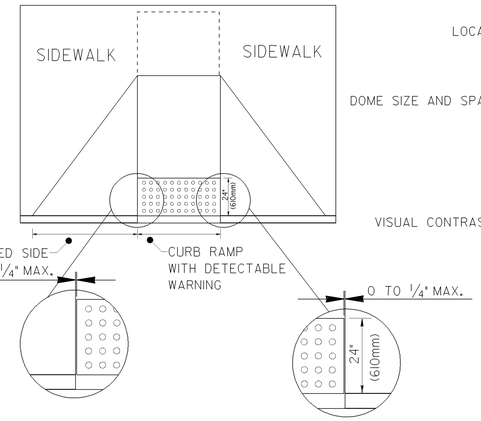
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A



CONCRETE ISLAND WITH ELEVATED CUT THROUGH



SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON OPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

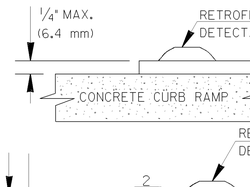
CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

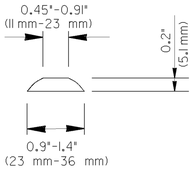
ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

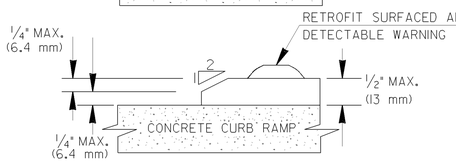
GENERAL NOTES:

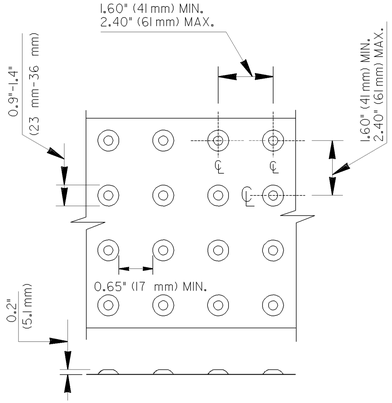
RETROFIT SURFACED APPLIED MATERIALS ONLY:

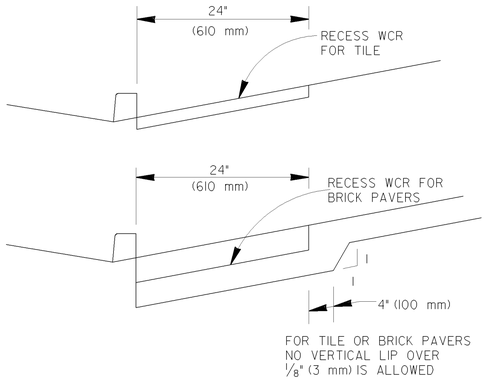
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.



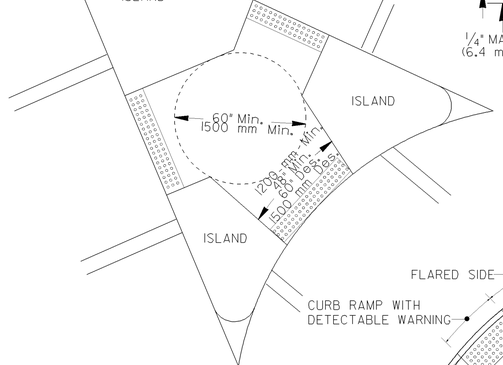


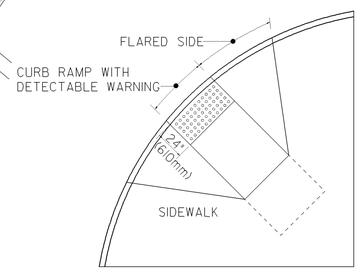






FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

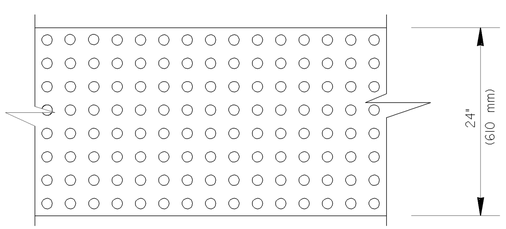




DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.



BY	REVISION	DATE
GLO	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES	6-18-09
GLO	ADDED TOLERANCE TO DTL.	10-2-06
GLO	REVISED TRUNCATED DOMES AND NOTES.	5-10-06
	REVISED	11-14-02
	REVISED	7-29-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE — MARCH 12, 2002

NUMBER A4

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NORCROSS, GEORGIA 30092
(770) 263-9118

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STATE OF GEORGIA
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CONSTRUCTION DETAILS

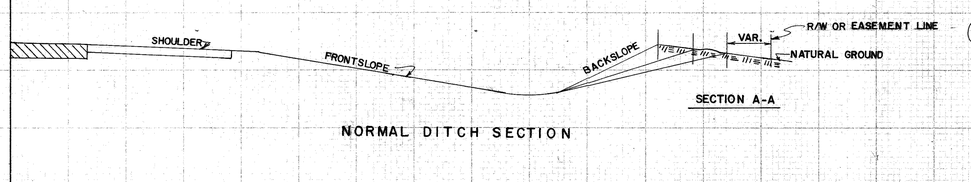
DRAWING No. 40-006

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	449	668

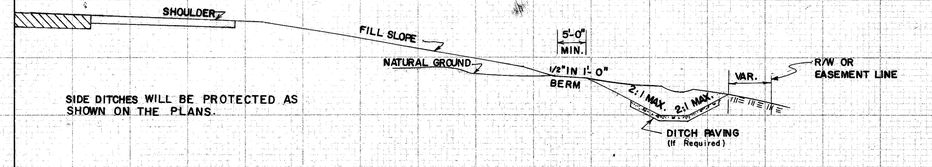
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NORMAL DITCH SECTION

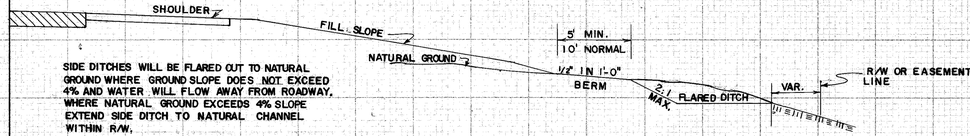


SECTION A-A



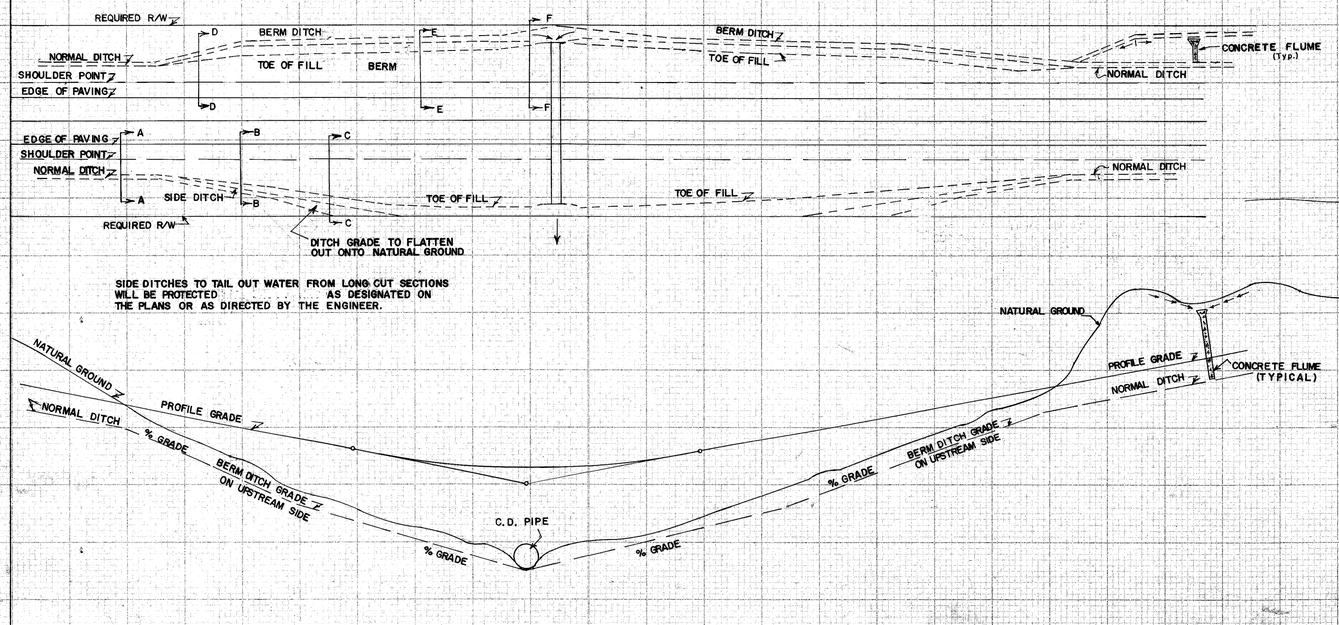
SIDE DITCHES WILL BE PROTECTED AS SHOWN ON THE PLANS.

SECTION B-B



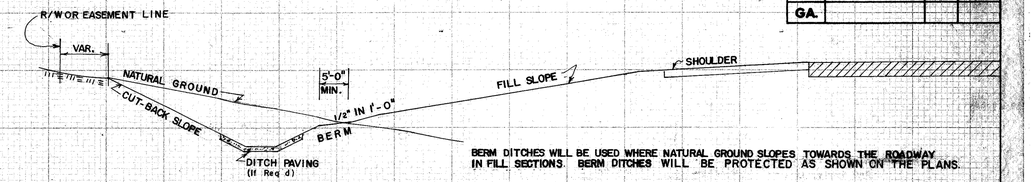
SIDE DITCHES WILL BE FLARED OUT TO NATURAL GROUND WHERE GROUND SLOPE DOES NOT EXCEED 4% AND WATER WILL FLOW AWAY FROM ROADWAY. WHERE NATURAL GROUND EXCEEDS 4% SLOPE EXTEND SIDE DITCH TO NATURAL CHANNEL WITHIN R/W.

SECTION C-C



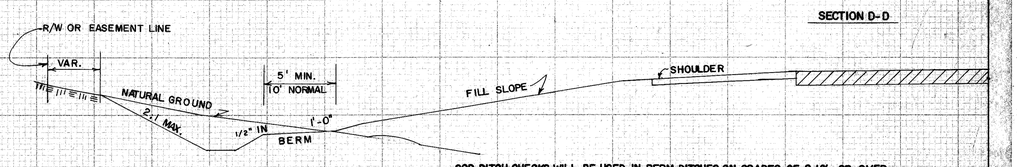
SIDE DITCHES TO TAIL OUT WATER FROM LONG CUT SECTIONS WILL BE PROTECTED AS DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

R/W OR EASEMENT LINE



BERM DITCHES WILL BE USED WHERE NATURAL GROUND SLOPES TOWARDS THE ROADWAY IN FILL SECTIONS. BERM DITCHES WILL BE PROTECTED AS SHOWN ON THE PLANS.

SECTION D-D

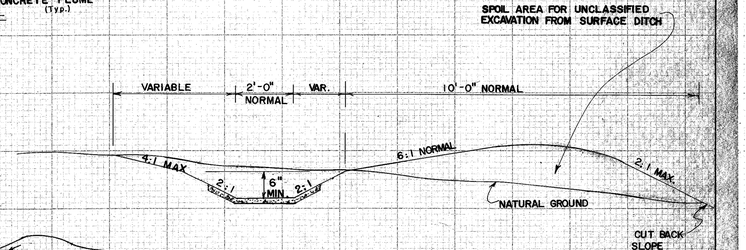


SOD DITCH CHECKS WILL BE USED IN BERM DITCHES ON GRADES OF 2.1% OR OVER AS SHOWN ON THE PLANS

SECTION E-E

UNPAVED BERM DITCHES WILL BE FLARED OUT TO NATURAL GROUND AT INLETS OF CROSS DRAINS.

SECTION F-F



DETAIL OF SURFACE DITCHES

NOTE: SURFACE DITCHES WILL BE REQUIRED AT THE TOP OF CUT SLOPES WHERE SHOWN ON THE PLANS OR WHERE IT IS DETERMINED BY THE ENGINEER ON CONSTRUCTION THAT THEIR USE IS ESSENTIAL. IN GENERAL, SURFACE DITCHES WILL BE REQUIRED WHERE THE SLOPE OF THE NATURAL GROUND AT THE TOP OF THE CUT DRAINS TOWARDS THE ROADWAY AND THE MATERIAL IN THE BACK SLOPE IS SUBJECT TO EROSION. SURFACE DITCHES ARE TO BE PROTECTED AS SHOWN ON THE PLANS.

CONSTRUCTION DETAILS

BERM DITCHES
SIDE DITCHES
SURFACE DITCHES

REV. & REDR. JULY, 1980

NO SCALE

D-7

FORM EF3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION DETAILS

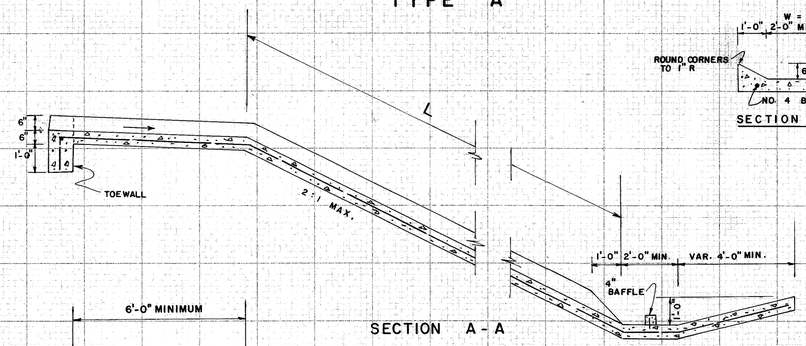
DRAWING No. 40-007

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	450	668

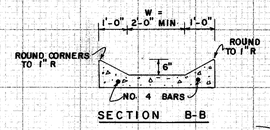
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

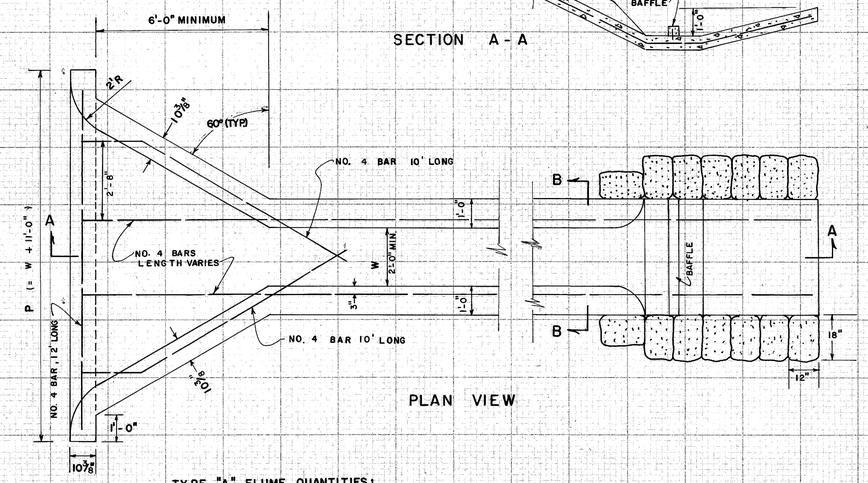
TYPE "A"



SECTION A-A



SECTION B-B



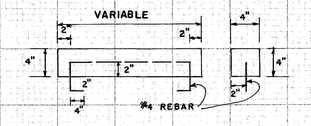
PLAN VIEW

TYPE "A" FLUME QUANTITIES:

(FOR W = 2'-0") CU. YDS. CONCRETE = 2.41 + 0.0926 (L)
(FOR W = 4'-0") CU. YDS. CONCRETE = 2.59 + 0.1306 (L)

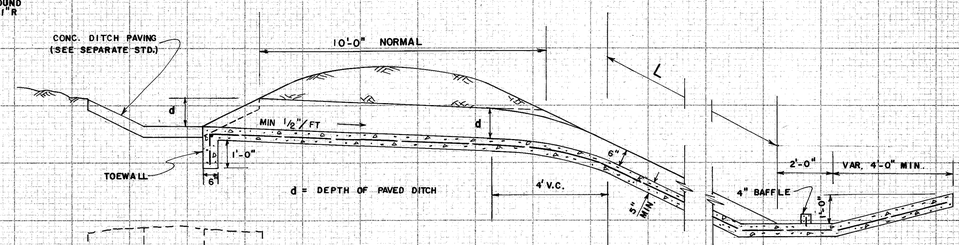
(FOR EITHER W) LBS. STEEL = 41 LBS. + (1.336)(L)

SAND CEMENT BAG RIP RAP; 14 BAGS x 0.1667 SQ.YDS./BAG = 2.333 SQ. YDS.



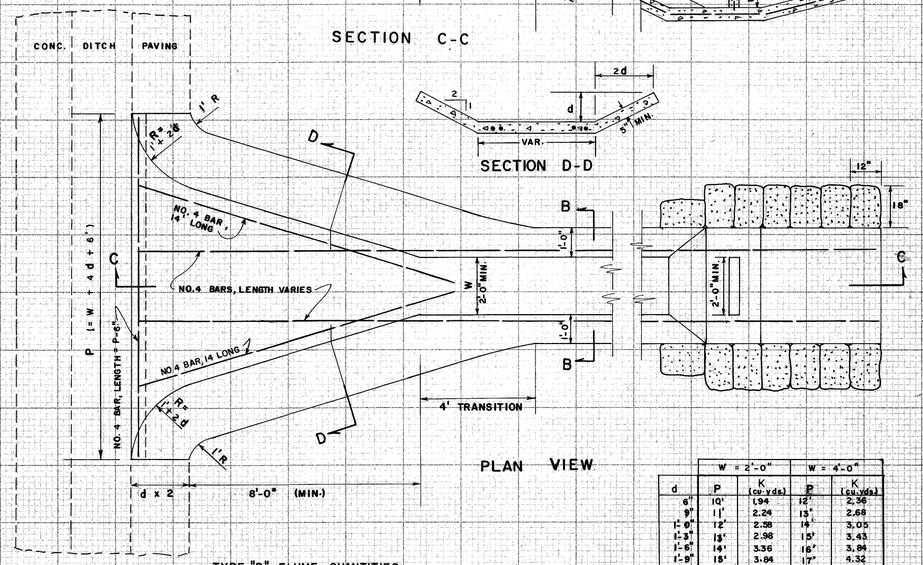
DETAILS OF 4" CONCRETE BAFFLE

TYPE "B"



SECTION C-C

SECTION D-D



PLAN VIEW

TYPE "B" FLUME QUANTITIES:

(FOR W = 2'-0") CU. YDS. CONC. = K + 0.0926 (L)
(FOR W = 4'-0") CU. YDS. CONC. = K + 0.1306 (L)

(FOR EITHER W) LBS. STEEL = 55 + 0.667 (P) + 1.336 (L)

SAND CEMENT BAG RIP RAP: 14 BAGS x 0.1667 SQ.YDS./BAG = 2.333 SQ.YDS.

d	W = 2'-0" P	W = 2'-0" K (cu. yds.)	W = 4'-0" P	W = 4'-0" K (cu. yds.)
6"	10'	1.94	12'	2.36
9"	11'	2.24	13'	2.68
1'-0"	12'	2.58	14'	3.05
1'-3"	13'	2.98	15'	3.43
1'-6"	14'	3.36	16'	3.84
1'-9"	15'	3.84	17'	4.32
2'-0"	16'	4.35	18'	4.85
2'-3"	17'	4.92	19'	5.45
2'-6"	18'	5.56	20'	6.10

NOTE: P = FLUME OPENING
K = CONCRETE CONSTANT (SEE FORMULAS)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. SIZE AND DIMENSIONS OF TYPE A OR TYPE B FLUMES MAY BE ADJUSTED FOR AN INDIVIDUAL SITE WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. AT LOCATIONS WHERE FLUME OUTLETS INTO AN INLET STRUCTURE, OMIT BAFFLE AND DOWNTURN END AND CONNECT FLUME TO THE INLET STRUCTURE.
4. SAND CEMENT BAG RIP RAP SHALL BE OMITTED IN PAVED DITCHES OR WHERE OTHER APPROVED EROSION CONTROL MATERIALS ARE USED.
5. POURED IN PLACE CONCRETE SHALL BE CLASS B MINIMUM. CLASS A CONCRETE SHALL BE USED FOR BAFFLES IF PRECAST.
6. BASIS OF PAYMENT:

CLASS B CONCRETE	____ CU.YD.
BAR REINFORCEMENT STEEL	____ LB.
SAND CEMENT BAG RIP RAP, 6 IN. OR 8 IN.	____ SQ.YDS.

CONCRETE FLUMES TYPES "A" & "B"

NO SCALE

REV. & REDR. OCT. 1983

D-9

FORM EF3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-008

3/1/2007 GPLN

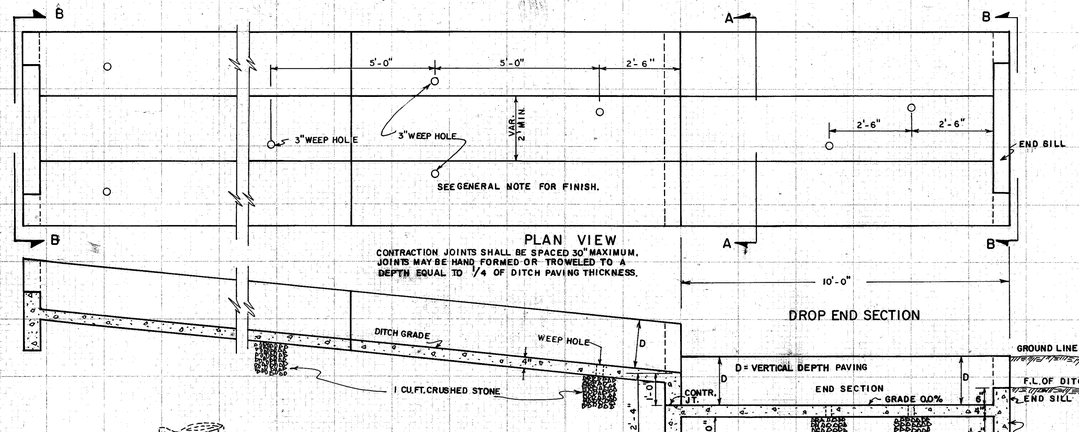
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	451	668

RELEASED FOR CONSTRUCTION 12/02/10

TYPICAL QUANTITIES FOR 4" CONCRETE DITCH PAVING — SQ. YDS./LIN. FT.

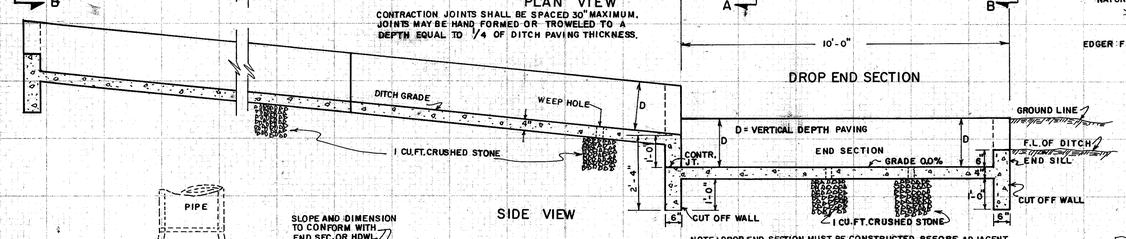
DEPTH (feet)	8:1 FR.SL. V BOTTOM 8:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 8:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 4:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 3:1 BK.SL.	8:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 6:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 4:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 3:1 BK.SL.	6:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	4:1 FR.SL. 2' BOTTOM 4:1 BK.SL.	4:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 2' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 3' BOTTOM 2:1 BK.SL.	4:1 FR.SL. 4' BOTTOM 4:1 BK.SL.	4:1 FR.SL. 4' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 4' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 5' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 6' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 7' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 8' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 9' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 10' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 12' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 14' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 16' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 18' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 20' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 25' BOTTOM 2:1 BK.SL.	2:1 FR.SL. 30' BOTTOM 2:1 BK.SL.	DEPTH (feet)
0.50	0.895	1.118	0.899	0.846	0.794	0.898	0.789	0.735	0.684	0.680	0.575	0.470	0.581	0.902	0.797	0.692	0.804	0.915	1.026	1.137	1.248	1.359	1.581	1.804	2.026	2.248	2.470	3.026	3.581	0.50
0.75	1.343	1.365	1.238	1.158	1.081	1.236	1.072	0.992	0.915	0.909	0.752	0.594	0.706	1.131	0.974	0.817	0.928	1.039	1.150	1.261	1.372	1.483	1.706	1.928	2.150	2.372	2.594	3.150	3.706	0.75
1.00	1.791	2.031	1.576	1.469	1.367	1.573	1.356	1.249	1.146	1.138	0.928	0.719	0.830	1.360	1.151	0.941	1.052	1.163	1.274	1.385	1.496	1.608	1.830	2.052	2.274	2.496	2.719	3.274	3.830	1.00
1.25	2.239	2.461	1.915	1.781	1.652	1.911	1.639	1.506	1.377	1.367	1.105	0.843	0.954	1.589	1.327	1.065	1.176	1.287	1.398	1.510	1.621	1.732	1.954	2.176	2.398	2.621	2.843	3.398	3.954	1.25
1.50	2.687	2.909	2.253	2.093	1.939	2.249	1.923	1.763	1.608	1.596	1.282	0.967	1.078	1.818	1.504	1.189	1.300	1.412	1.523	1.634	1.745	1.856	2.078	2.300	2.523	2.745	2.967	3.523	4.078	1.50
1.75	3.135	3.357				2.587	2.206	2.019	1.839	1.825	1.458	1.091	1.202	2.047	1.680	1.314	1.425	1.536	1.647	1.758	1.869	1.980	2.202	2.425	2.647	2.869	3.091	3.647	4.202	1.75
2.00	3.583	3.805				2.925	2.490	2.276	2.070	2.054	1.635	1.216	1.327	2.276	1.857	1.438	1.549	1.660	1.771	1.882	1.993	2.104	2.327	2.549	2.771	2.993	3.216	3.771	4.327	2.00
2.25	4.031	4.253				3.263	2.773	2.533	2.301	2.283	1.812	1.340	1.451	2.505	2.034	1.562	1.673	1.784	1.895	2.006	2.118	2.229	2.451	2.673	2.895	3.118	3.340	3.895	4.451	2.25
2.50	4.479	4.701				3.601	3.057	2.790	2.533	2.512	1.988	1.464	1.575	2.735	2.210	1.686	1.797	1.908	2.020	2.131	2.242	2.353	2.575	2.797	3.020	3.242	3.464	4.020	4.575	2.50
2.75	4.926	5.149				3.939	3.340	3.047	2.764	2.741	2.165	1.588	1.699	2.964	2.387	1.810	1.922	2.033	2.144	2.255	2.366	2.477	2.699	2.922	3.144	3.366	3.588	4.144	4.699	2.75
3.00	5.374	5.597				4.277	3.624	3.303	2.995	2.970	2.341	1.712	1.824	3.193	2.564	1.935	2.046	2.157	2.268	2.379	2.490	2.601	2.824	3.046	3.268	3.490	3.712	4.268	4.824	3.00
3.25	5.822	6.044				4.615	3.907	3.560	3.226	3.200	2.518	1.837	1.948	3.422	2.740	2.059	2.170	2.281	2.392	2.503	2.614	2.726	2.948	3.170	3.392	3.614	3.837	4.392	4.948	3.25
3.50	6.270	6.492				4.953	4.191	3.817	3.457	3.429	2.695	1.961	2.072	3.651	2.917	2.183	2.294	2.405	2.516	2.628	2.739	2.850	3.072	3.294	3.516	3.739	3.961	4.516	5.072	3.50
3.75	6.718	6.940				5.291	4.474	4.074	3.688	3.658	2.871	2.085	2.196	3.880	3.094	2.307	2.418	2.530	2.641	2.752	2.863	2.974	3.196	3.418	3.641	3.863	4.085	4.641	5.196	3.75
4.00	7.166	7.388				5629	4.758	4.331	3.919	3.887	3.048	2.209	2320	4.109	3.270	2.432	2.543	2.654	2.765	2.876	2.987	3.098	3.320	3.543	3.765	3.987	4.209	4.765	5.320	4.00

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

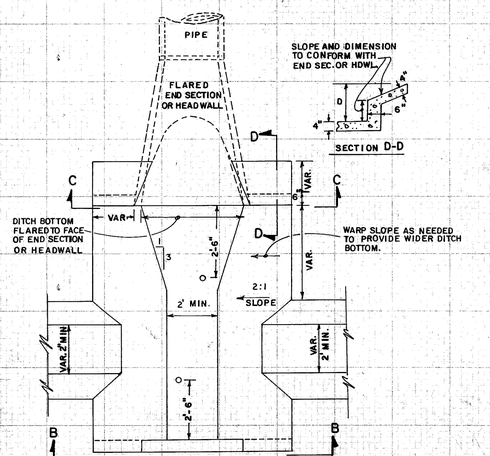
CONTRACTION JOINTS SHALL BE SPACED 30" MAXIMUM. JOINTS MAY BE HAND FORMED OR TROWELED TO A DEPTH EQUAL TO 1/4 OF DITCH PAVING THICKNESS.



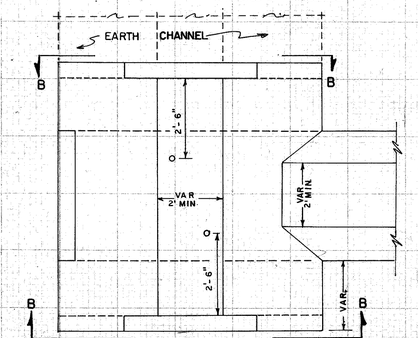
SIDE VIEW

DROP END SECTION

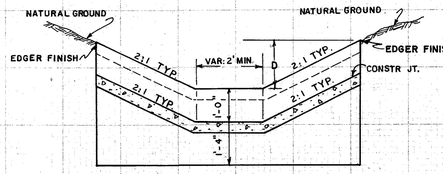
NOTE: DROP END SECTION MUST BE CONSTRUCTED BEFORE ADJACENT UPSTREAM SECTION IS POURED. (SEE CONSTR. JOINT IN SECTION A-A.) DROP END SECTION MAY BE OMITTED AND END SECTION OF DITCH BURIED 3'-0" BELOW NATURAL CHANNEL WHEN APPROVED BY THE ENGINEER.



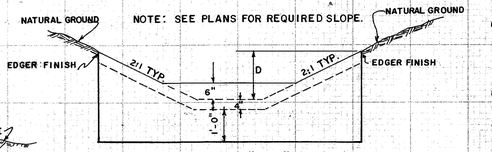
CONNECTING PAVED DITCH TO FLARED END SECTION OR HEADWALL (TYPICAL DETAIL)



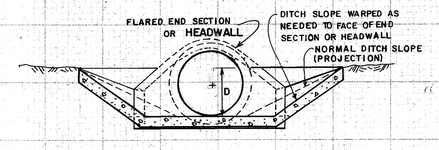
CONNECTING PAVED DITCH TO EARTH CHANNEL (TYPICAL DETAIL)



SECTION "A-A"



SECTION "B-B"



SECTION "C-C"

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.
2. CONCRETE DITCH PAVING IS TO BE CONSTRUCTED TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. PAYMENT FOR CONCRETE DITCH PAVING INCLUDES THE CUT-OFF WALL & END SILL AT INLET AND OUTLET END OF DITCH, THE CRUSHED STONE FOR WEEP HOLES, AND EXPANSION JOINT MATERIAL.
4. A DROP END SECTION WILL BE CONSTRUCTED AS 4" CONCRETE DITCH PAVING ON THE DOWNSTREAM END OF ALL PAVED DITCHES.
5. SIDE SLOPES ON PAVED BERM AND SURFACE DITCHES SHALL BE 2:1, UNLESS MODIFIED ON CONSTRUCTION TO MEET FIELD CONDITIONS. WHEN PAVING IS PLACED IN A NORMAL ROADWAY DITCH, THE SIDE SLOPES AND BOTTOM WILL CONFORM TO THOSE SHOWN ON THE ROADWAY TYPICAL SECTION.
6. WEEP HOLES SHALL BE OMITTED IN ALL SURFACE DITCHES OF THE TOP OF CUT SLOPES. WEEP HOLES SHALL BE REQUIRED IN BERM DITCHES AND ROADWAY DITCHES WHEN PAVED.
7. SURFACE FINISH SHALL BE FLOATED SUFFICIENTLY TO COVER AGGREGATE WITH MORTAR.
8. EXPANSION JOINTS ARE REQUIRED WHERE PAVED DITCH CONNECTS TO OTHER CONCRETE STRUCTURES.
9. QUANTITIES APPLY TO ANY TYPE OF DITCH REQUIRING PROTECTION. QUANTITIES MAY ALSO BE USED FOR PERMANENT SOIL REINFORCING MAT OR OTHER KINDS OF DITCH PROTECTION ITEMIZED AS SQUARE YARDS.

CONSTRUCTION DETAILS

4" CONCRETE DITCH PAVING

DETAILS & QUANTITIES

NO SCALE

JAN. 1988

D-10

FORM EF00003

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

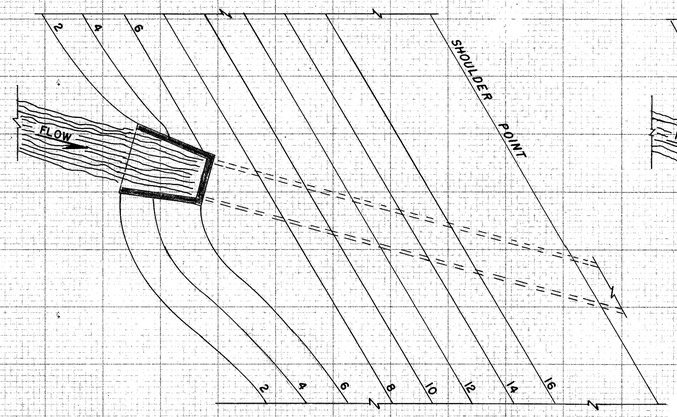
CONSTRUCTION DETAILS

DRAWING No. 40-009

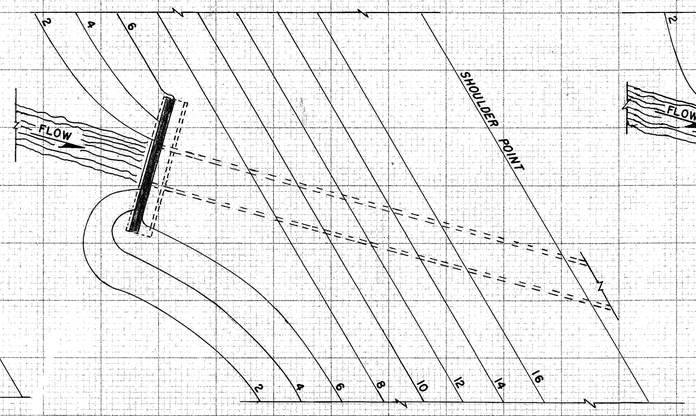
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

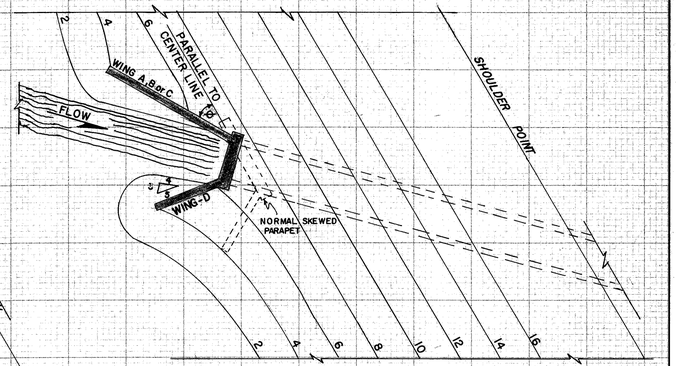
LOCATION OF STANDARD 1125 HEADWALL FOR SKEWED PIPES



LOCATION OF STRAIGHT HEADWALL FOR SKEWED PIPES

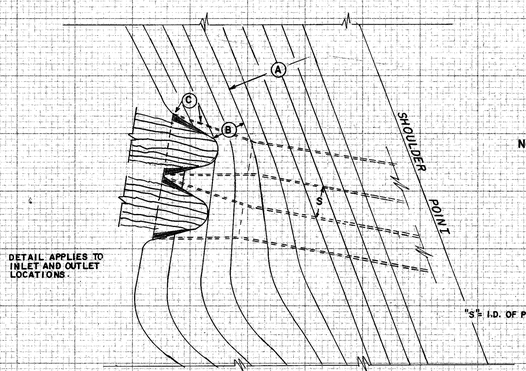


LOCATION OF WINGWALLS & PARAPET FOR SKEWED BOX CULVERTS



BOX CULVERT WING WALLS		
75° SKEW	WING-A	ϕ = 45°
60° SKEW	WING-B	ϕ = 45°
45° SKEW	WING-C	ϕ = 30°
ALL SKEWS	WING-D	5/3 4

LOCATION OF FLARED END SECTIONS FOR MULTIPLE LINE SKEWED PIPES



DETAIL APPLIES TO INLET AND OUTLET LOCATIONS.

NOTE: FOR METAL FLARED END SECTION

ON MULTIPLE PIPE LINES WHERE WINGTIPS OF ADJACENT METAL END SECTIONS OVERLAP, THE OVERLAPPING PORTIONS MAY BE FIELD CUT TO FIT AND THE ADJACENT END SECTIONS WELDED TOGETHER ALONG THE LINE OF CUT, WITH ALL DAMAGE TO THE GALVANIZING BEING REPAIRED TO THE EQUAL OF ORIGINAL CONDITION, OR THE DIMENSION "S" (AT THE DIRECTION OF THE ENGINEER OR AS SHOWN ON THE PLANS) MAY BE ADJUSTED IN ORDER TO ACCOMODATE THE END SECTIONS.

"S" = I.D. OF PIPE OR 3 FT., WHICHEVER IS SMALLER. SEE STD. 1030-D.

Ⓐ = NORMAL FILL SLOPES

Ⓑ = SLOPE 4:1 OR FLATTER TO BACK OF END SECTION (FOR CONC. END SECTION).

Ⓒ = SLOPE WARPED TO MATCH END SECTION.

CONSTRUCTION DETAILS

TYPICAL SKEWED CULVERT ENDS

NO SCALE

REV. & REDR. DEC., 1983

FORM EF00003

TURN TO D-15

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION DETAILS

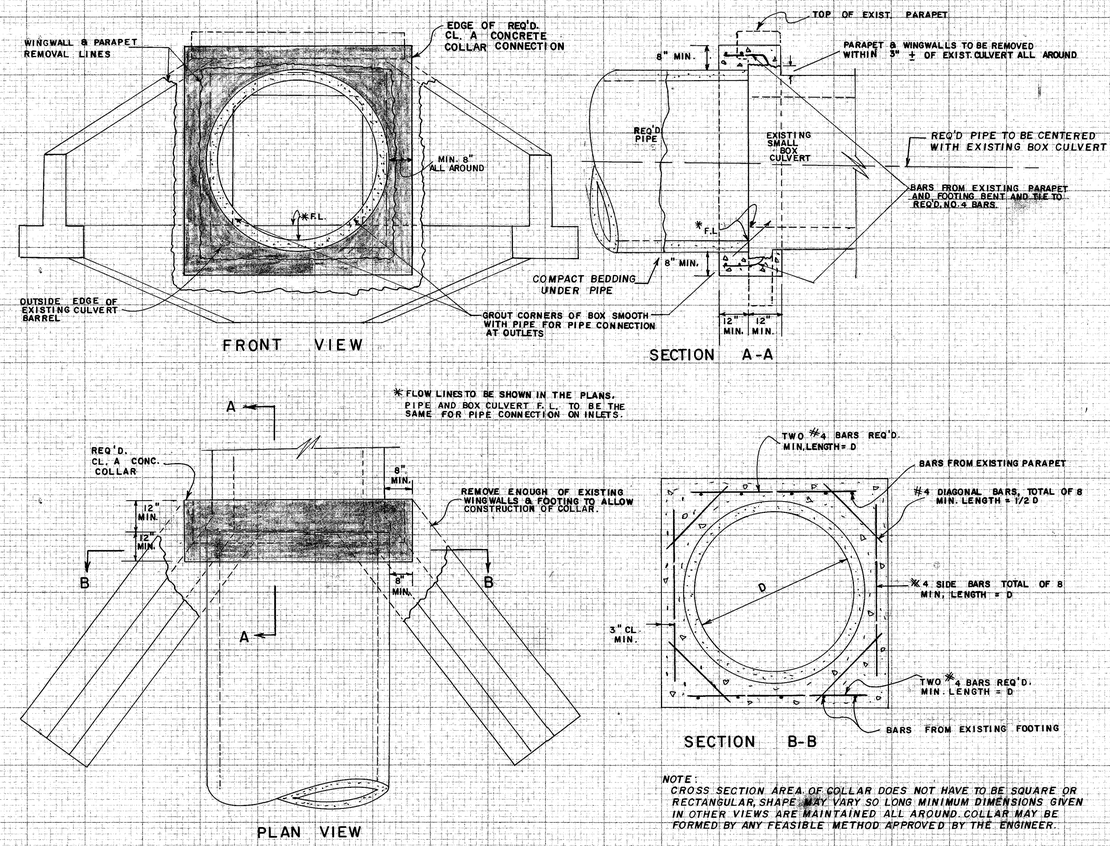
DRAWING No. 40-010

3/1/2007 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	453	668

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



NOTE:
CROSS SECTION AREA OF COLLAR DOES NOT HAVE TO BE SQUARE OR RECTANGULAR, SHAPE MAY VARY SO LONG MINIMUM DIMENSIONS GIVEN IN OTHER VIEWS ARE MAINTAINED ALL AROUND. COLLAR MAY BE FORMED BY ANY FEASIBLE METHOD APPROVED BY THE ENGINEER.

NOTES:

1. PAYMENT FOR PIPE CULVERT SHALL INCLUDE REMOVING PORTIONS OF WINGWALLS & PARAPET AS SHOWN AND THE CONCRETE AND STEEL REQUIRED FOR COLLAR CONNECTION.
2. COLLAR DIMENSIONS SHOWN ARE MINIMUM. COLLAR MAY BE FORMED AGAINST COMPACTED OR UNDISTURBED SOIL OR AGAINST EDGES OF EXISTING STRUCTURE. EXTERIOR OF COLLAR DOES NOT HAVE TO BE SMOOTH LINES.
3. THESE DETAILS ARE FOR USE WHERE IT IS NOT FEASIBLE TO EXTEND BOX CULVERT WITH SAME, WHERE PLANS SHOW BOX CULVERT EXTENDED WITH PIPE, THE CONTRACTOR MAY ELECT TO EXTEND WITH PRECAST BOX OR CAST-IN-PLACE BOX OF SAME SIZE WHERE FILL HEIGHT PERMITS AND AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. ADJUSTMENTS TO DETAILS SHOWN MAY BE MADE IN THE FIELD AT THE DIRECTION OF THE ENGINEER TO SUIT INDIVIDUAL SITE.

CONSTRUCTION DETAILS

PIPE-BOX CULVERT COLLAR CONNECTIONS DETAILS

MARCH, 1988

FORM EF00003

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CONSTRUCTION DETAILS

DRAWING No. 40-011

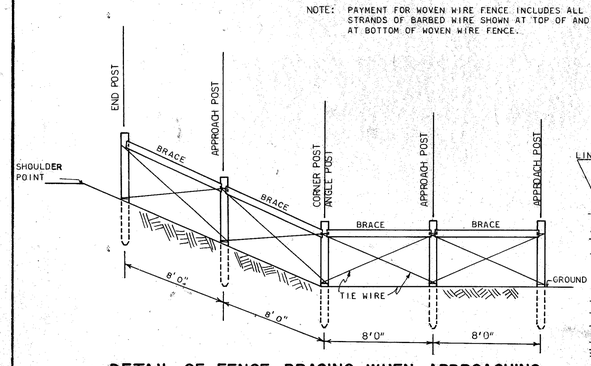
3/1/2007 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	454	668

RELEASED FOR CONSTRUCTION 12/02/10

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
GA.			

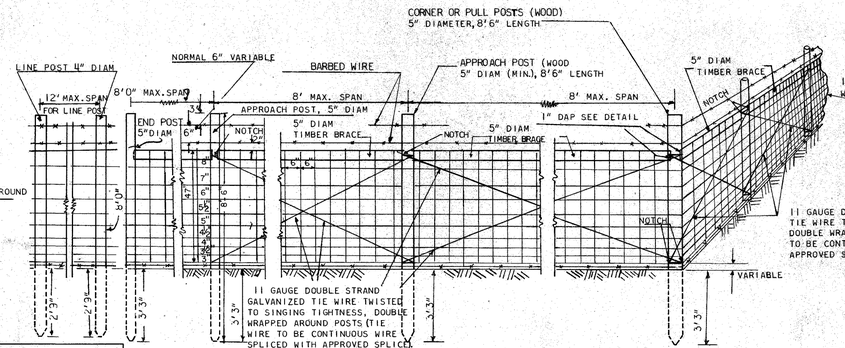
NOTE: PAYMENT FOR WOVEN WIRE FENCE INCLUDES ALL STRANDS OF BARBED WIRE SHOWN AT TOP OF AND AT BOTTOM OF WOVEN WIRE FENCE.



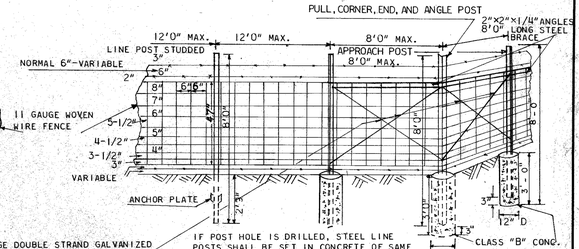
DETAIL OF FENCE BRACING WHEN APPROACHING FILL SLOPE OR ON ANGLE GREATER THAN 15°

TIMBER POST FENCE DETAILS

NOTE: ALL DIMENSIONS ARE MINIMUM UNLESS OTHERWISE NOTED.



STEEL POST FENCE DETAILS



11 GAUGE DOUBLE STRAND GALVANIZED TIE WIRE TWISTED TO SINGING TIGHTNESS DOUBLE WRAPPED AROUND POSTS TIE WIRE TO BE CONTINUOUS WIRE SPLICED WITH APPROVED SPLICE.

IF POST HOLE IS DRILLED, STEEL LINE POSTS SHALL BE SET IN CONCRETE OF SAME DIMENSIONS AS PULL, CORNER, END, APPROACH AND ANGLE POSTS.

GENERAL NOTES:

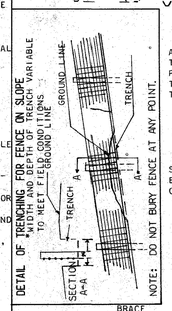
1. FENCE MAY BE ANGLED TO EDGE OF CULVERTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DESIGNATION OF THIS DETAIL ON THE PLANS WILL BE ON THE BASIS OF A SAFETY EVALUATION.
2. A CHANGE IN TYPE MATERIAL FOR LINE POST CONSTRUCTION WILL ONLY BE ALLOWED AT NATURAL BREAKS IN THE FENCE LINE SUCH AS GRADE SEPARATIONS, INTERCHANGES, AND BRIDGES.

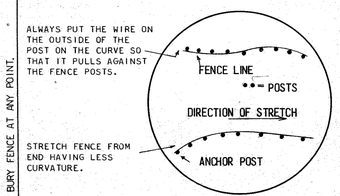
TIMBER POST NOTES:

1. DIMENSIONS SHOWN AS DIAMETERS OF ROUND POSTS ALSO APPLY TO EDGE WIDTH OF SQUARE POSTS.
2. AT ABRUPT CHANGES IN GRADE, STAPLE EVERY LINE WIRE.
3. TIMBER POSTS TO BE SET BY DRIVING OR DRILLING POST HOLES.
4. USE 9 GAUGE GALVANIZED STAPLES 1-1/2" LONG FOR TIMBER POSTS AT APPROACH POST, STAPLE EVERY LINE WIRE IN TOP HALF AND ALTERNATE LINE WIRES IN BOTTOM HALF, SEE STAPLING DETAIL.
5. ALL TIMBER POSTS AND BRACING ARE TO BE SEASONED AND PRESERVATIVE TREATED IN ACCORDANCE WITH SECTION 863 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE 4 INCH NOMINAL DIMENSION LINE POSTS FOR THE DETAILS.
7. STUDDED STEEL "T" LINE POSTS MAY BE USED WITH WOODEN PULL, CORNER, END, APPROACH, AND ANGLE POSTS.
8. SQUARE WOODEN LINE POSTS CAN BE USED IN COMBINATION WITH ROUND WOODEN PULL, CORNER, END APPROACH, AND ANGLE POSTS.

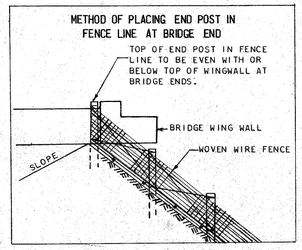
STEEL POST NOTES:

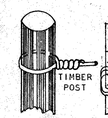
1. SET PULL, CORNER, END AND APPROACH POST IN CONCRETE.
2. SECURE EVERY LINE WIRE AT STEEL CORNER, END, ANGLE AND PULL POSTS AT STEEL LINE POSTS FASTEN EVERY LINE WIRE IN TOP HALF OF FENCE, ALTERNATE LINE WIRES IN BOTTOM HALF.





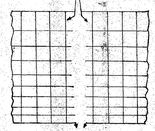
DETAIL OF CONTOUR FENCING

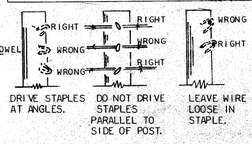




METHOD OF SECURING WIRE STRANDS OF FENCE AT END CORNER ANGLE AND PULL POST

THESE STAY WIRES TO BE REMOVED-FENCE TO BE SECURED WITH APPROVED SPLICE

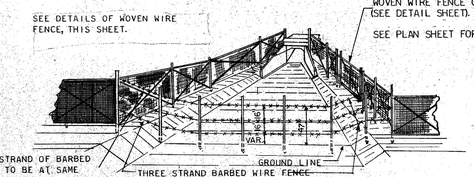




DRIVE STAPLES AT ANGLES. DO NOT DRIVE STAPLES PARALLEL TO SIDE OF POST. LEAVE WIRE LOOSE IN STAPLE.

STAPLING DETAILS

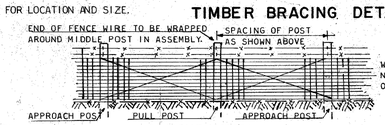
TIMBER BRACING DETAILS



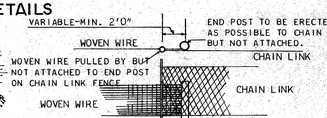
NOTE: THIS FENCE IS TO BE USED AT LARGE PIPES AND CULVERTS WHERE A DISTINCT CHANNEL IS ENCOUNTERED EXCEPT WHERE THE CULVERT HAS BEEN APPROVED AS A CATTLE PASS.

DETAIL SHOWING PLACEMENT OF THREE STRAND BARBED WIRE FENCE

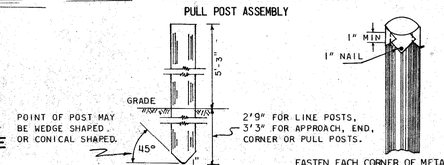
NOTE: THREE STRAND BARBED WIRE FENCE IS NOT INTENDED FOR GENERAL USE AS PASTURE FENCING. SEE CONSTRUCTION DETAILS FOR FOUR AND FIVE STRAND BARBED WIRE FENCE WHERE NEEDED.



PULL POST ASSEMBLY



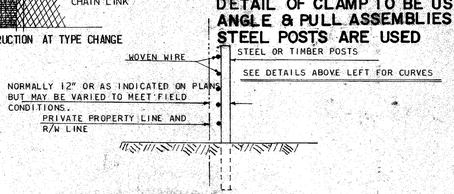
DETAIL OF FENCE CONSTRUCTION AT TYPE CHANGE



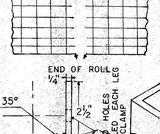
DETAIL OF TIMBER POST

FASTEN EACH CORNER OF METAL CAP TO SIDE OF POST WITH A 1" GALVANIZED ROOFING NAIL.

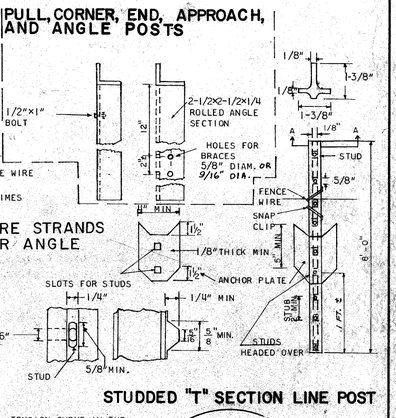
METHOD OF PLACING METAL CAP ON WOODEN FENCE POSTS



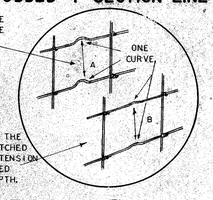
SKETCH INDICATING FENCE LOCATION AT SECTIONS OF NO FRONTAGE ROADS (REFER TO DETAIL PLANS FOR LOCATION OF FENCING FOR PROJECTS WITH FRONTAGE ROADS).



DETAIL OF CLAMP TO BE USED WITH ANGLE & PULL ASSEMBLIES WHERE STEEL POSTS ARE USED



STUDDED "T" SECTION LINE POST



A. TENSION CURVE IN THE LINE WIRE BEFORE THE FENCE IS STRETCHED.

B. TENSION CURVE AFTER THE FENCE HAS BEEN STRETCHED STRETCH WIRE UNTIL TENSION CURVE WILL NOT EXCEED 1/2 ITS ORIGINAL DEPTH.

DETAIL OF TENSION CURVE

3-10-88 R.M.U.-ADD. NOTE FOR PAYMENT-12-2-77 R.M.U.-REV.

CONSTRUCTION DETAILS
WOVEN WIRE FENCE

REVISED AND REDRAWN 9-29-76

Shotgun M. O. 13880-3 "Approval Film"

3/1/2007 GPLN

THE LPA GROUP
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3595 ENGINEERING DRIVE
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(770) 263-9118

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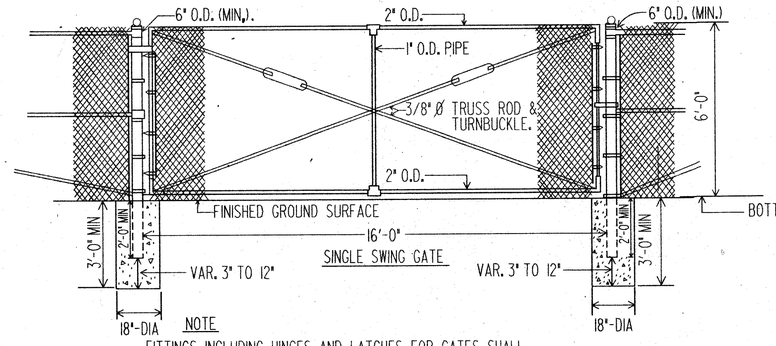
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-012

RELEASED FOR CONSTRUCTION 12/02/10

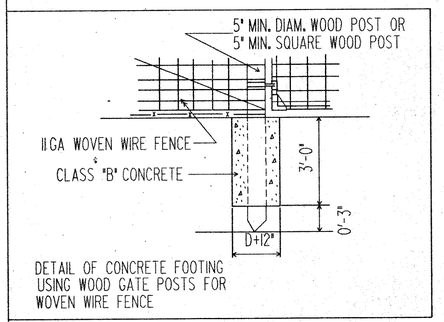
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE:
WHERE CHAIN LINK WIRE FENCE HAS BARBED WIRE, GATE SHALL ALSO REQUIRE BARBED WIRE BUT WITH VERTICAL EXTENSION ARMS ON THE GATE AND GATE POST UNLESS SPECIFIED OTHERWISE.

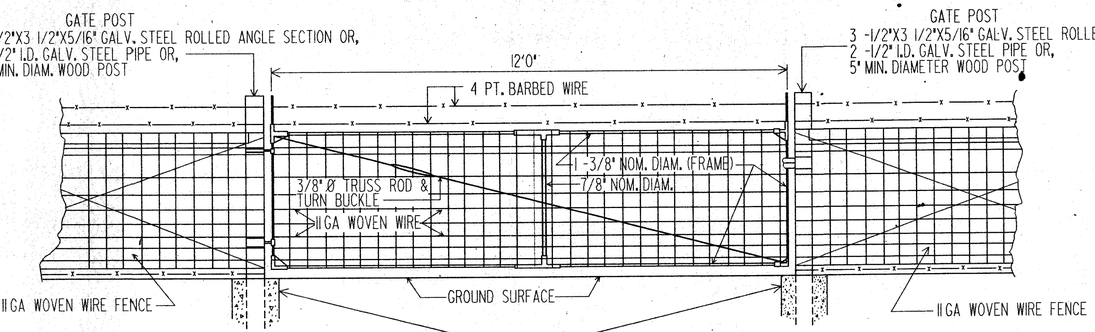


GATE FOR CHAIN LINK FENCE

NOTE
FITTINGS INCLUDING HINGES AND LATCHES, FOR GATES SHALL MEET THE APPROVAL OF THE ENGINEER AND THE REQUIREMENTS OF THE SPECIFICATIONS.



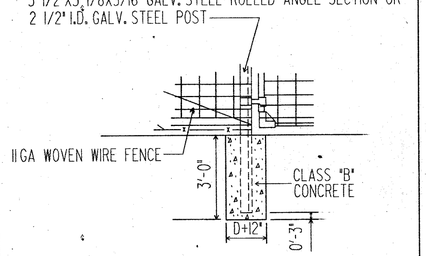
DETAIL OF CONCRETE FOOTING USING WOOD GATE POSTS FOR WOVEN WIRE FENCE



GATE FOR WOVEN WIRE FENCE

FOR DETAIL OF CONCRETE FOOTINGS SEE DETAILS LEFT

12 FT. SINGLE SWING GATE TO BE USED WITH WOOD POSTS OR METAL POSTS



DETAIL OF CONCRETE FOOTING USING METAL GATE POSTS FOR WOVEN WIRE FENCE

GATE: (WOVEN WIRE FENCE)

1- 1 -3/8" NOM. DIAMETER GALV. STEEL FRAME (12' X 47")
2- 7/8" NOM. DIAMETER GALV. STEEL CENTER BRACE
3- 3/8"Ø GALV. TRUSS-ROD & TURNBUCKLE
4- FABRIC IS TO BE WRAPPED AND TIED AROUND ENDS OF FRAME AND ATTACHED TOP AND BOTTOM WITH APPROVED FABRIC FASTENERS.
5- FITTINGS INCLUDING HINGES AND LATCHES, FORGATES SHALL MEET THE APPROVAL OF THE ENGINEER AND THE REQUIREMENTS OF THE MATERIAL SPECIFICATIONS.

GATE POSTS: (WOVEN WIRE FENCE)

1- 3 -1/2"X3 1/2"X5/16" GALV. STEEL ROLLED ANGLE SECTION OR
2 -1/2" I.D. GALV. STEEL PIPE OR
5" MIN. DIAMETER (WOOD) OR
5" MIN. SQUARE (WOOD)
2- TYPE OF GATE POSTS TO BE USED IS SELECTED BY CONTRACTOR. WOOD GATE POSTS ARE TO BE USED IF CONTRACTOR ELECTS TO USE WOOD FENCE POSTS. METAL GATE POSTS IF CONTRACTOR ELECTS TO USE METAL FENCE POSTS.
3- GATE REMAINS AS SHOWN ON DETAIL FOR FENCE WITH WOOD POST OR FENCE WITH METAL POSTS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

GATE DETAILS FOR
CHAIN LINK & WOVEN WIRE FENCE

NO SCALE JAN. 1988

REV. RMU
DRW. AS
TRA. ____
CHK. RMU

DATE | REVISION | BY

F2

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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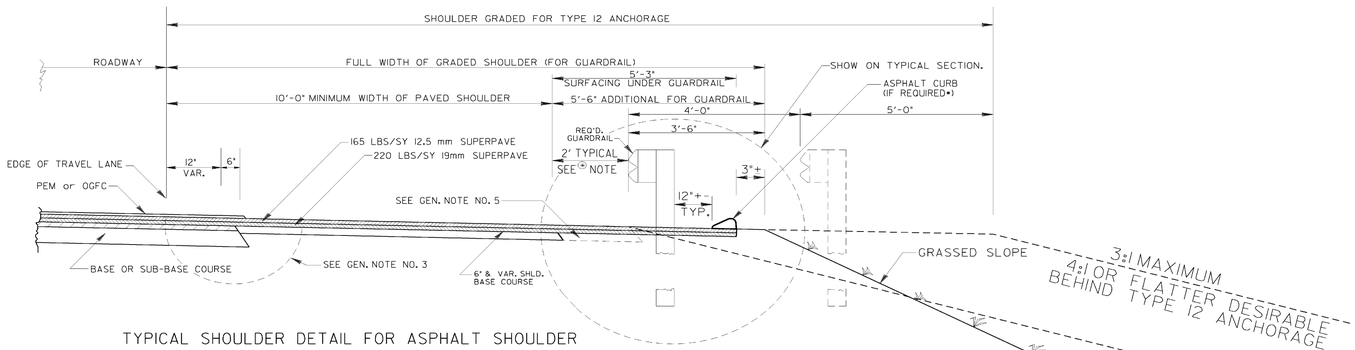
DRAWING NO. 40-013

3/1/2007 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	456	668

RELEASED FOR CONSTRUCTION 12/02/10

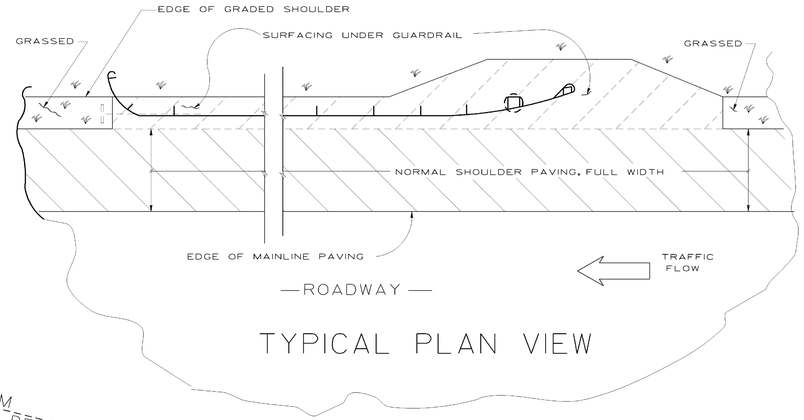
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TYPICAL SHOULDER DETAIL FOR ASPHALT SHOULDER
(FOR GUARDRAIL REQUIRED ON SHOULDER)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.
2. THE TREATMENT SHOWN FOR THE OUTER PORTION OF THE SHOULDER APPLIES ONLY WHERE GUARDRAIL IS TO BE LOCATED ALONG PAVED SHOULDER.
3. PAYMENT DESIGN AND NORMAL SHOULDER PAVING ARE ILLUSTRATED AS TYPICAL, OTHER MATERIALS SUCH AS SELECT BORROW, DRAINAGE COURSE, 12.5 MM SUPERPAVE, ETC. SHALL BE AS SPECIFIED ON THE PROJECT, WHERE REQUIRED.
4. AFTER GUARDRAIL POSTS HAVE BEEN INSTALLED, THE SURFACE AREA AROUND THE POSTS SHALL BE SEALED WITH THE APPROPRIATE ASPHALT OR OTHER APPROVED MATERIAL AT NO ADDITIONAL PAYMENT, IF THE ENGINEER DETERMINES IT IS NECESSARY.
5. THE PAVED SHOULDER WIDTH MAY BE EXTENDED TO THE FACE OF THE GUARDRAIL, WHERE SPECIFIED.
6. NORMAL USE OF ASPHALTIC CURB SHALL BE WHERE 2:1 FILL SLOPES WARRANT GUARDRAIL, EXCEPT ON THE HIGH SIDE OF SUPERELEVATION. SEE SEPARATE DETAILS.



TYPICAL PLAN VIEW

NOTE: DETAIL ABOVE IS TYPICAL. SEE GUARDRAIL STANDARDS FOR SHOULDER WIDENING AT ANCHORAGES, WHERE REQUIRED.

TYPICAL SHOULDER DETAIL FOR CONCRETE SHOULDER
(FOR GUARDRAIL REQUIRED ON SHOULDER)

NOTE: NORMAL USE OF THESE DETAILS IS WHERE FULL WIDTH SHOULDER PAVING IS SPECIFIED AND GUARDRAIL IS REQUIRED.

⊕ NOTE:

STANDARD OFFSET TO FACE OF GUARDRAIL IS 2 FT. GREATER THAN THE USABLE SHOULDER WIDTH. SHOULDER PAVING SHALL BE AT LEAST THE WIDTH OF THE USABLE SHOULDER FOR USE OF THESE DETAILS. (SHOULDER PAVING WIDTH MAY BE ADDITIONALLY INCREASED AT GUARDRAIL RUNS TO REDUCE AREA REQUIRING WEED CONTROL). GRADED SHOULDERS SHALL HAVE ADDITIONAL WIDTH FOR GUARDRAIL LOCATION PER STANDARD DETAILS.

* ASPHALTIC CONCRETE CURB PER SECTION 436 SHALL BE REQUIRED WHERE SPECIFIED. TYPICAL USE IS FOR EROSION PREVENTION OF HIGH FILL SLOPES. THE SHAPE OF ASPHALTIC CURB BEHIND GUARDRAIL MAY VARY AS APPROVED BY THE ENGINEER.

REVISED	9-30-02
REVISED	4-23-02
REVISION	DATE

CONSTRUCTION DETAILS

SHOULDER PAVING AND SURFACING UNDER GUARDRAIL

Interstates & Freeways

NO SCALE RE-DRAWN OCT. 1999

Sheet 2 of 2

S-4

BY: DES. & REV. MGR. ____ REDR. ADS. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) CHIEF ENGINEER

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
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CONSTRUCTION DETAILS

DRAWING No. 40-014

3/1/2007 GPLN

6/18/2009 1:38:27 PM \\GDOT-DSN1\GDPLOT\QCF\go_tiff_output.qcf gowens V:\GARY\REVISED S-7\S-7.prf GO-RDG

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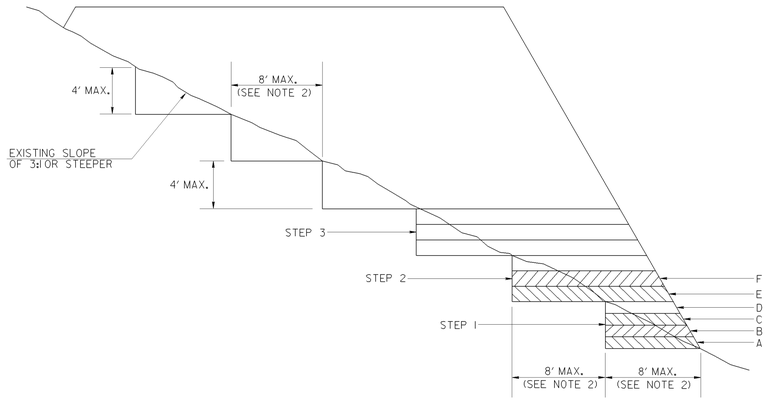
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BENCHING DETAIL



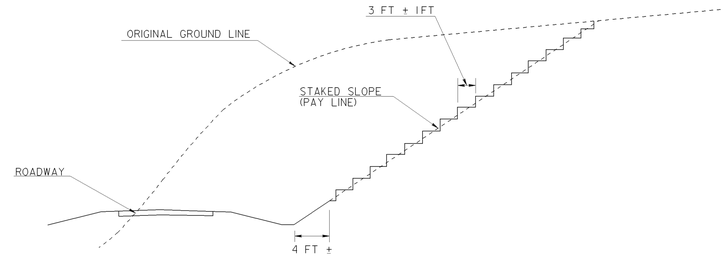
NOTES :

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE.(SEE DIAGRAM ABOVE)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT ¾ THE WIDTH OF THE TYPICIAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED. THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

SERRATED SLOPE DETAIL



NO SCALE

NOTES :

1. SLOPES STEEPER THAN 3:1 SHALL BE SERRATED.

2. WIDTH OF STEP SHALL BE 3 FT \ IFT.

3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.

4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL.

5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS 1, 6, AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEOTECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2, 3, 4, AND 5, UNLESS REQUIRED BY THE SOIL SURVEY.

BY	REVISION	DATE
G.L.O.	REVISED BENCHING DETAIL &	6-18-09
	REVISED TITLE BLOCK.	
R.M.U.	GEN. REVISION	1-28-82

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

SERRATED SLOPE DETAIL
BENCHING DETAIL

NO SCALE — JULY, 1981

NUMBER S-7

6/18/2009 1:38:27 PM \\GDOT-DSN1\GDPLOT\QCF\go_tiff_output.qcf gowens V:\GARY\REVISED S-7\S-7.prf

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

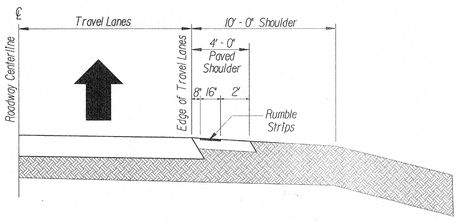
DRAWING No. 40-015

3/1/2007 GPLN

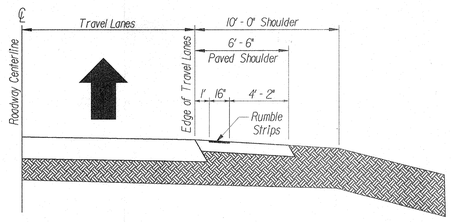
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	458	668

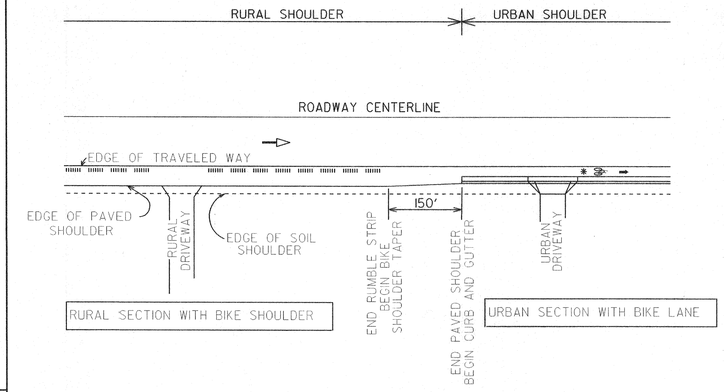
RELEASED FOR CONSTRUCTION 12/02/10

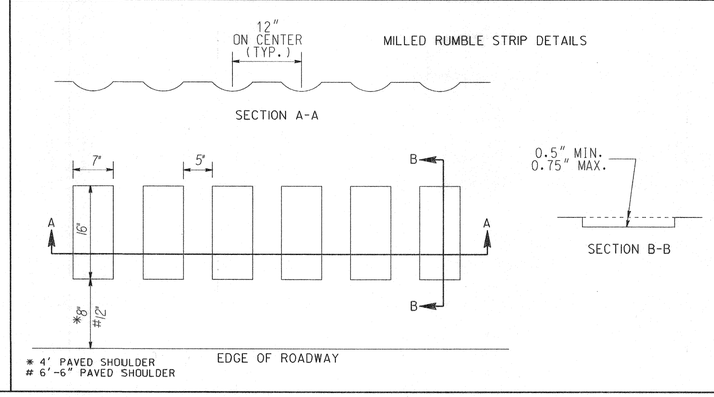
4' PAVED SHOULDER WITH 16" MILLED RUMBLE STRIPS



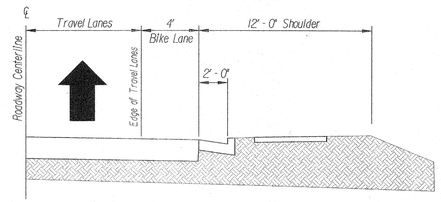
6' - 6" PAVED SHOULDER WITH 16" MILLED RUMBLE STRIPS



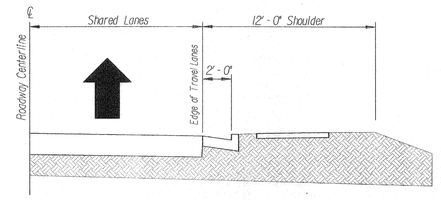




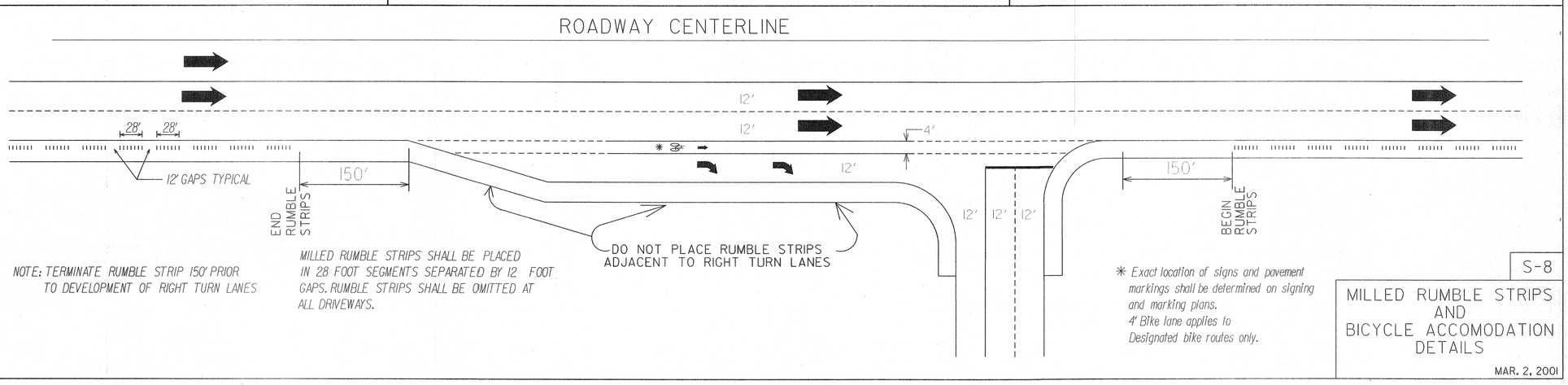
4' Urban Bike Lane



Shared Lane



Note: Outside lane width should be 12' minimum, 14' desirable.



NOTE: TERMINATE RUMBLE STRIP 150' PRIOR TO DEVELOPMENT OF RIGHT TURN LANES

MILLED RUMBLE STRIPS SHALL BE PLACED IN 28 FOOT SEGMENTS SEPARATED BY 12 FOOT GAPS. RUMBLE STRIPS SHALL BE OMITTED AT ALL DRIVEWAYS.

* Exact location of signs and pavement markings shall be determined on signing and marking plans.
4' Bike lane applies to Designated bike routes only.

S-8

MILLED RUMBLE STRIPS AND BICYCLE ACCOMODATION DETAILS

MAR. 2, 2001

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

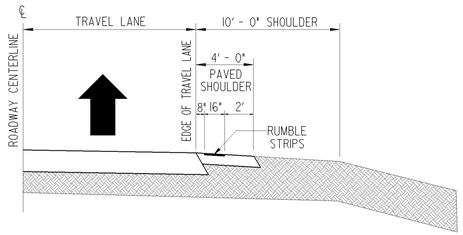
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION DETAILS

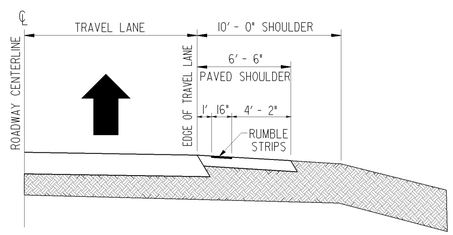
DRAWING No. 40-016

3/1/2007 GPLN

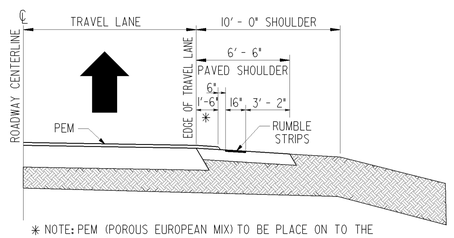
4' PAVED SHOULDER WITH 16" MILLED RUMBLE STRIPS



6' - 6" PAVED SHOULDER WITH 16" MILLED RUMBLE STRIPS

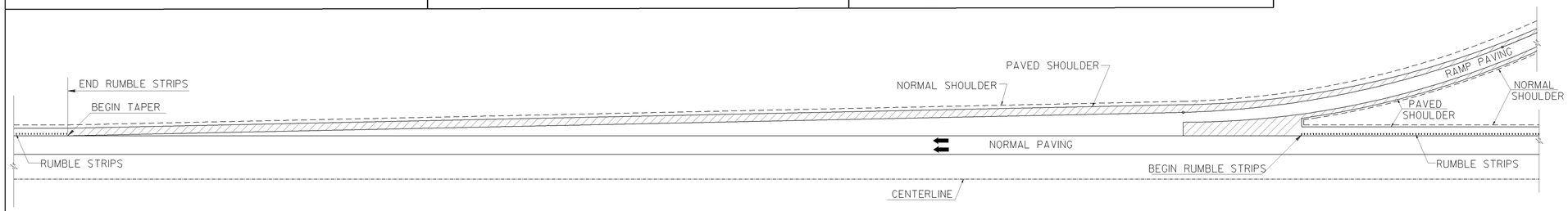


PEM, 6' - 6" PAVED SHOULDER WITH 16" MILLED RUMBLE STRIPS



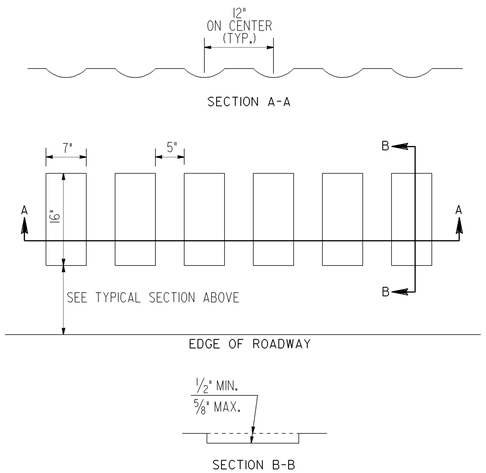
* NOTE: PEM (POROUS EUROPEAN MIX) TO BE PLACE ON TO THE SHOULDER PAVING A DISTANCE OF 12" ON THE LEFT SHOULDER AND 18" ON THE RIGHT SHOULDER.

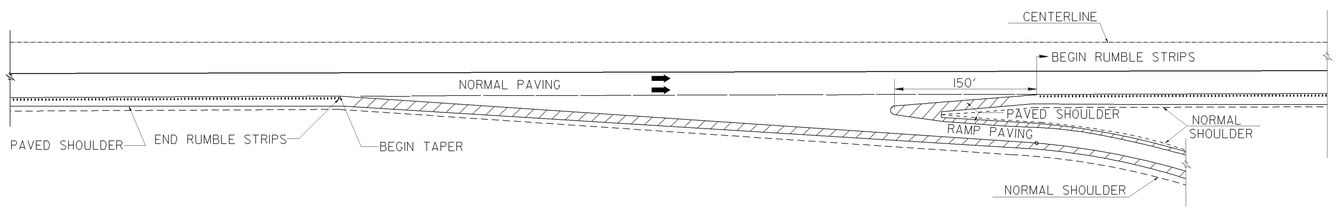
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



ENTRANCE RAMP

MILLED RUMBLE STRIP DETAILS





EXIT RAMP

BASIS OF PAYMENT:
INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (CONTINUOUS) ___GLM

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	CONSTRUCTION DETAIL CONTINUOUS INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE INTERSTATE	
	NO SCALE	MARCH, 2010
BY		NUMBER S-9

3/12/2010 9:40:38 AM \\GDOT-DSN1\GOPLOT\QCF\go_tiff_output.qcf gowens V:\GARY\New S-9\S-9.prf

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

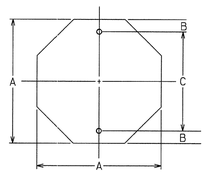
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-017

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	460	668

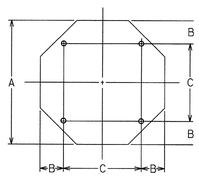
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

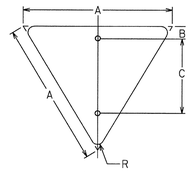


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

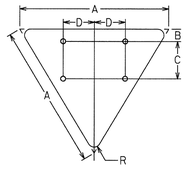


A	B	C
48	9	30

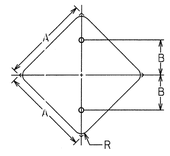


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

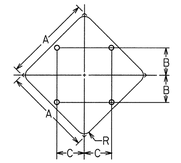


A	B	C	D	R
60	3	18	15	3



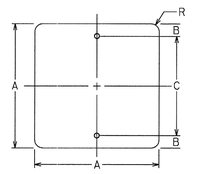
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



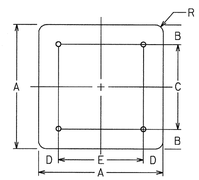
A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

*FOR TWO POST ERECTION

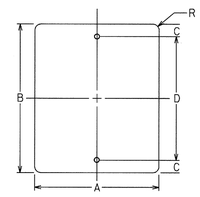


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

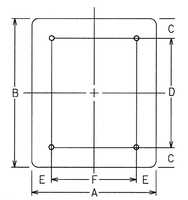


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

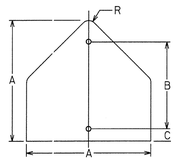


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

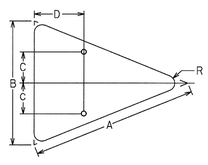


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



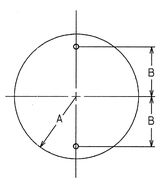
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



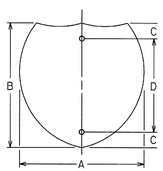
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



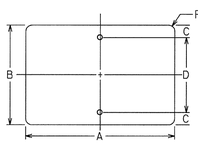
CIRCLE

A	B
15	12
18	15

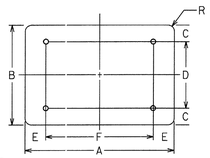


INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8



HORIZONTAL RECTANGLE

A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF SIGN PLATES

NO SCALE JANUARY 2000

PCBOT8

T-1

\\Ltlsrvgp plotter dgn Jul 09, 2003 10:10:10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

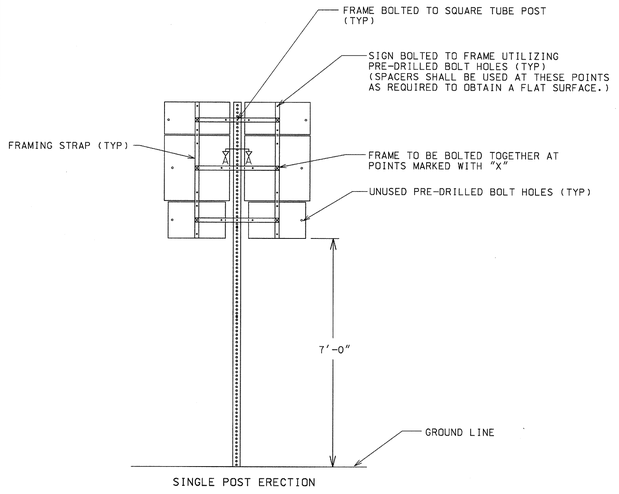
REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

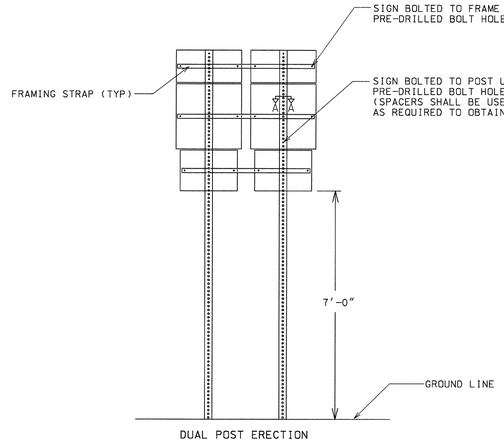
DRAWING No. 40-018

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

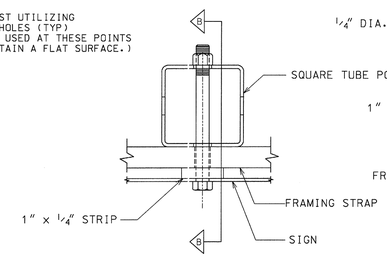


SINGLE POST ERECTION

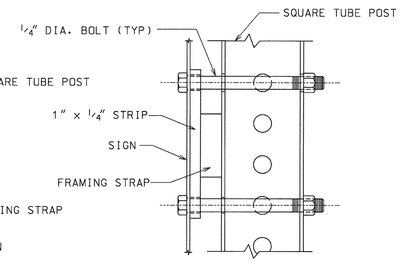


DUAL POST ERECTION

TYPICAL ASSEMBLY UNIT (BACK VIEW)



SECTION A-A



SECTION B-B
(ROTATED 90°)

OPTION #1 - FRAMING STRAP WITHOUT MOUNTING HOLE
(ALL FRAMING STRAPS SHALL BE 1 1/2" x 1/2" x REQUIRED LENGTH)

OPTION #2 - FRAMING STRAP WITH MOUNTING HOLE
(ALL FRAMING STRAPS SHALL BE 2" x 1/2" x REQUIRED LENGTH)

GENERAL NOTES:

1. STYLE OF FRAMING IS OPTIONAL. ALTERNATE DESIGNS ARE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. FRAME SHALL BE DESIGNED SO AS TO HOLD THE ASSEMBLY IN A FIXED, RIGID POSITION.
2. FRAMING STRAPS SHALL BE GALVANIZED STEEL OR ALUMINUM.
3. STEEL SHALL BE A.S.T.M. DESIGNATION A-283, GRADE D, GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-123.
4. ALUMINUM SHALL BE ALLOY 6061-T6.
5. BOLTS, NUTS, WASHERS, AND SPACERS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
6. FRAMING STRAPS ON A DUAL POST ERECTION SHALL NOT BE BOLTED TO THE POST.

DATE	REVISIONS
3/31/00	CHANGED U-CHANNEL POST TO SQUARE TUBE POST

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC OPERATIONS

DETAILS FOR TYPICAL FRAMING

NO SCALE JANUARY 2000

T-2

PCBOTB

\\GDOTSVR04\ Framing.dgn 03-JAN-2003 16:16:10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

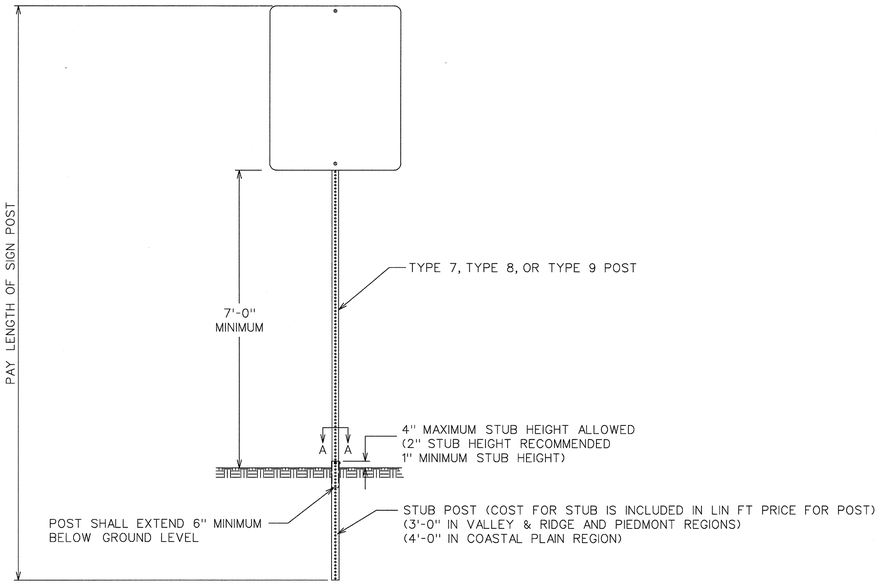
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-019

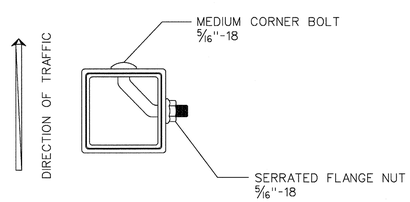
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2"14 ga.		TYPE 9 2-1/4"14 ga	TYPE 8 2-1/2"12 ga.	TYPE 8 2-1/2"12 ga.		TYPE 8 w/TYPE 9 Insert* 2-1/2"12 ga. W/2-1/4"14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE JULY 2002

T-3A

PCBDTB

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

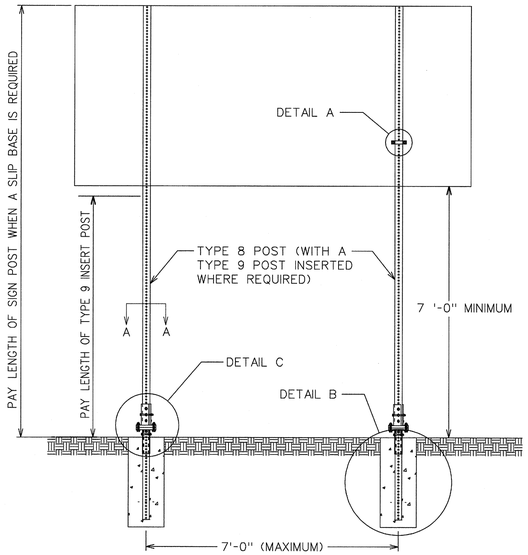
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

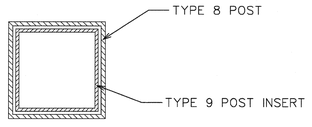
DRAWING No. 40-020

3/1/2007 GPLN

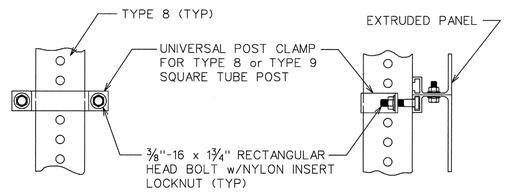
RELEASED FOR CONSTRUCTION 12/02/10



BACK VIEW



SECTION A-A



BACK VIEW SIDE VIEW

DETAIL A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

Sign Centroid	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2" 14 ga.		TYPE 9 2-1/4" 14 ga.	TYPE 8 2-1/2" 12 ga.	TYPE 8 2-1/2" 12 ga.		TYPE 8 w/TYPE 9 Insert* 2-1/2" 12 ga. W/2-1/4" 14 ga.		
	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24" X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

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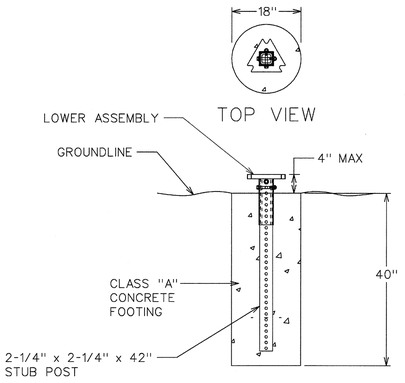
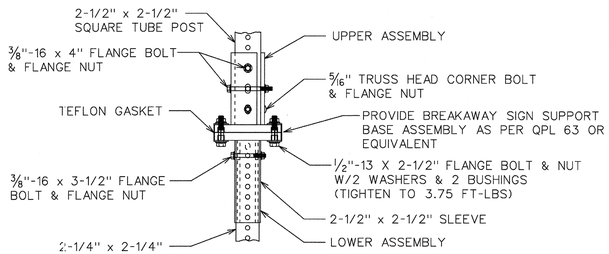
GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



DETAIL B
GROUND MOUNTED BREAKAWAY SIGN SUPPORT



DETAIL C
(CONCRETE NOT SHOWN)

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
SQUARE TUBE POST
(BREAKAWAY SIGN SUPPORT)

NO SCALE July 2002

PCBDTB

\\GDOTsrv01\gdot_dist_03_data\ 06-DEC-2010 16:12:11

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

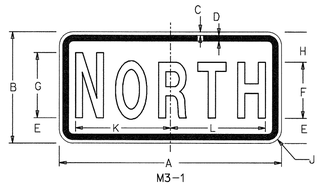
DRAWING No. 40-021

3/1/2007 GPLN

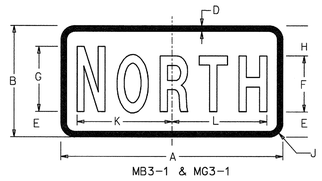
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	464	668

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

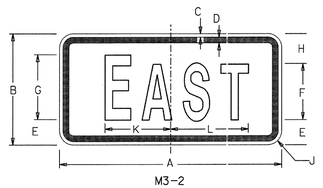


M3-1

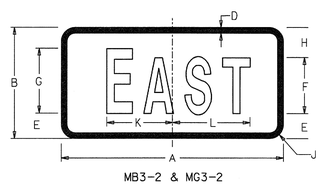


MB3-1 & MG3-1

DIMENSIONS (INCHES)											
SIGN	A	B	C	D	E	F	G	H	J	K	L
BIKE	12	4	-	1/4	1	2D	2 1/4 D	1	3/4	4 1/4	4 1/4
MIN & STD	24	12	3/8	5/8	2 3/4	6C	7C	3 1/4	1 1/2	10 1/4	10 1/4
SPECIAL	30	15	3/8	5/8	3 1/4	8C	9C	3 3/4	1 1/2	12 5/8	12 5/8

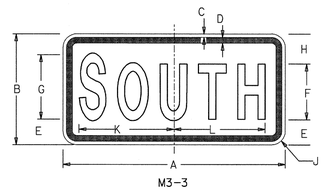


M3-2

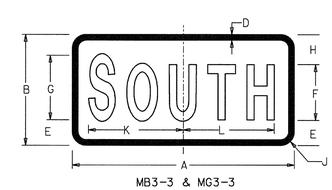


MB3-2 & MG3-2

DIMENSIONS (INCHES)											
SIGN	A	B	C	D	E	F	G	H	J	K	L
BIKE	12	4	-	1/4	1	2D	2 1/4 D	1	3/4	3 3/8	3 3/8
MIN & STD	24	12	3/8	5/8	2 3/4	6C	7C	3 1/4	1 1/2	7 7/8	8 3/4
SPECIAL	30	15	3/8	5/8	3 1/4	8C	9C	3 3/4	1 1/2	10 3/8	11 1/8

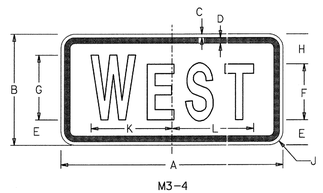


M3-3

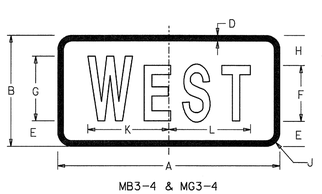


MB3-3 & MG3-3

DIMENSIONS (INCHES)											
SIGN	A	B	C	D	E	F	G	H	J	K	L
BIKE	12	4	-	1/4	1	2D	2 1/4 D	1	3/4	4 1/4	4 1/4
MIN & STD	24	12	3/8	5/8	2 3/4	6C	7C	3 1/4	1 1/2	10 1/4	9 5/8
SPECIAL	30	15	3/8	5/8	3 1/4	8C	9C	3 3/4	1 1/2	12 5/8	12 1/2



M3-4



MB3-4 & MG3-4

DIMENSIONS (INCHES)											
SIGN	A	B	C	D	E	F	G	H	J	K	L
BIKE	12	4	-	1/4	1	2D	2 1/4 D	1	3/4	3 1/2	3 1/2
MIN & STD	24	12	3/8	5/8	2 3/4	6C	7C	3 1/4	1 1/2	8 3/4	8 3/4
SPECIAL	30	15	3/8	5/8	3 1/4	8C	9C	3 3/4	1 1/2	10 3/8	11 1/8

GENERAL NOTES:

1. M3 (CONVENTIONAL ROADWAYS) SIGNS SHALL HAVE BLACK LEGENDS AND BORDERS ON WHITE REFLECTORIZED BACKGROUNDS.
2. MB3 (INTERSTATE HIGHWAYS) SIGNS SHALL HAVE WHITE REFLECTORIZED LEGENDS AND BORDERS ON BLUE REFLECTORIZED BACKGROUNDS.
3. MG3 (BIKE LANES) SIGNS SHALL HAVE WHITE REFLECTORIZED LEGENDS AND BORDERS ON GREEN REFLECTORIZED BACKGROUNDS.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF CARDINAL DIRECTION SIGNS

NO SCALE JANUARY 2000

PCBOTB

\\Roadways\direction signs.dgn 02 JAN 2003 15:10:10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

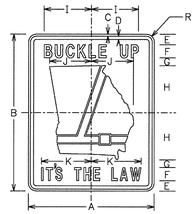
REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-022

RELEASED FOR CONSTRUCTION 12/02/10

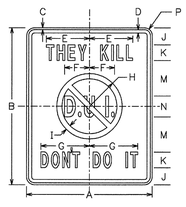
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



R560-1

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	I	J	K	R
MIN & STD	30	36	1/2	3/4	2 1/2	3C	1 1/2	11	8 1/2	10	11	1 7/8
FWY	48	60	3/4	1 1/4	4	5C	3	18	15 1/2	16	18	3

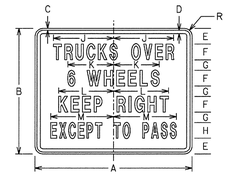
COLORS
STATE SHIELD & BORDER – RED (REFL)
LEGEND & BELT – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL)



R560-2

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
MIN & STD	30	36	1/2	3/4	11	5	12 1/2	7 1/2	1 1/4	4	4C	3	4 1/2	5C	1 7/8
FWY	48	60	3/4	1 1/4	16 1/2	9 1/2	18 1/2	12 1/2	2	6 1/2	6C	5	8 1/2	8C	3

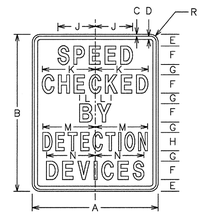
COLORS
CIRCLE & DIAGONAL – RED (REFL)
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL)



R560-3

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M	R
MIN & STD	36	30	1/2	3/4	3 1/2	3 1/2	C	3	3 1/2	B	14	10	11 1/2	14 1/2	1 7/8
FWY	60	48	3/4	1 1/4	6	6C	4	6B	23	17 1/2	21	24	3		

COLORS
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL)



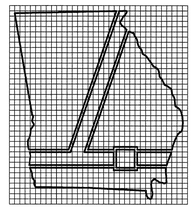
I550-1

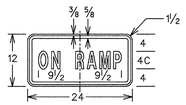
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N	R
MIN & STD	30	36	1/2	3/4	4	4D	2	4C	8 3/16	11 9/16	3 3/16	11 9/16	10 5/8	1 1/8
FWY	48	60	3/4	1 1/4	4 1/2	7D	4	7C	14 5/16	20 3/16	6	20	18 1/16	3

COLORS
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND – WHITE (REFL)

THE I550-1 SIGN SHALL BE ERECTED:

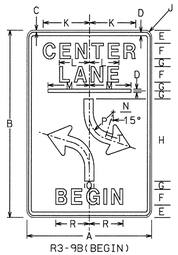
1. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHICH INTERSECTS THE STATE LINE.
2. AT THE TERMINI OF EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM WHICH BEGINS OR ENDS WITHIN THE STATE BOUNDARIES.
3. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHERE TRAFFIC FROM OUTSIDE THE COUNTY FIRST ENTERS A COUNTY THAT HAS A PERMIT TO OPERATE SPEED DETERCTION DEVICES, AND
4. ON EVERY HIGHWAY THAT COMPRISES A PART OF THE STATE HIGHWAY SYSTEM AT THAT POINT ON THE HIGHWAY WHERE TRAFFIC FIRST ENTERS THE CORPORATE LIMITS OF ANY MUNICIPALITY THAT HAS A PERMIT TO OPERATE SPEED DETECTION DEVICES.





R8-3aP

COLORS
LEGEND & BORDER - RED (REFL)
BACKGROUND - WHITE (REFL)

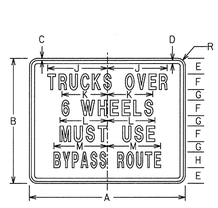


R3-9B(BEGIN)

R3-9B(END)

SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
STD & MIN	24	36	3/8	5/8	2 1/2	3E	1 1/2	16	1 1/2	8 5/16	5 3/4	8	2 1/2	6	2	6 5/16	4 3/16	1 1/2
SPECIAL	36	48	5/8	7/8	3 1/2	5E	1 1/2	20	2 1/4	14 1/8	9 1/2	12	3	8	3	7 11/16	4 15/16	2

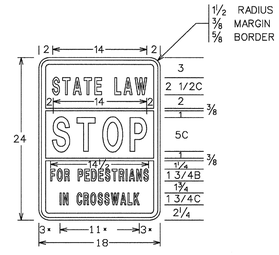
COLORS
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND –WHITE (REFL)



R560-4

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M	R
MIN & STD	36	30	1/2	3/4	3 1/2	3 1/2	C	3	3 1/2	B	14	10	10	12 1/2	1 7/8
FWY	60	48	3/4	1 1/4	6	6C	4	6C	23	17 1/2	17 1/2	25 1/2	3		

COLORS
LEGEND & BORDER – BLACK (NON-REFL)
BACKGROUND –WHITE (REFL)



R560-5

COLORS
LEGEND & BORDER-BLACK (NON-REFL)
WORD "STOP" -RED (REFL)
BACKGROUND -WHITE (REFL)

DATE	REVISIONS
5-24-00	ADDED R9-8 DETAIL
1-21-03	DELETED R1-4 SIGNS
1-21-03	REV SIGN CODES FOR R3-9 SIGNS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
REGULATORY SIGNS
SHEET 1 OF 2

NO SCALE JANUARY 2000

T-5A

PCBOTB

C:\Office\Regulatory Signs 1 of 2.dgn 03-JAN-2003 15:12:13

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

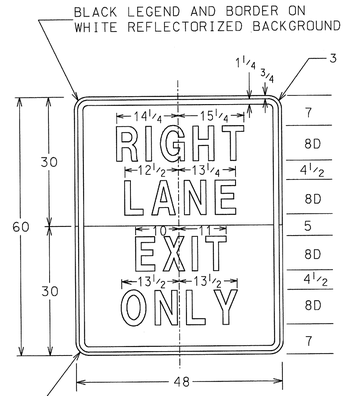
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

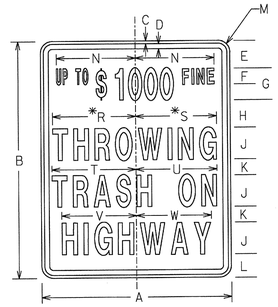
DRAWING No. 40-023

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



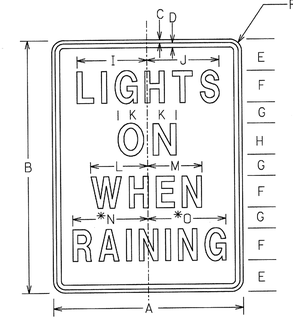
R553-7



R553-1

* REDUCE SPACING 20%

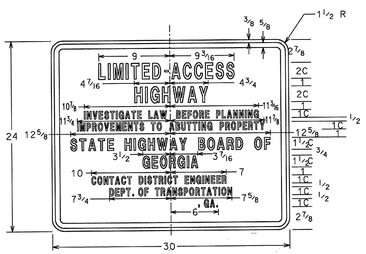
SIGN	DIMENSIONS (INCHES)																			
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S	T	U	V	W
STD & MIN	24	30	3/8	5/8	3 1/2	2B	4C	3 1/2	4C	2	3	1 1/2	10	10 1/2	10 1/4	10 3/4	10 1/8	9 3/8	9 1/2
EXPWY	36	48	5/8	7/8	6	3B	6C	6	6C	3	6	2 1/4	15	15 3/4	15 3/8	16 1/8	15 5/16	14 1/16	14 1/4
FWY	48	60	3/4	1 1/4	7	4B	7C	8	8C	4	6	3	20	21	20 1/2	21 1/2	20 1/4	18 3/4	19



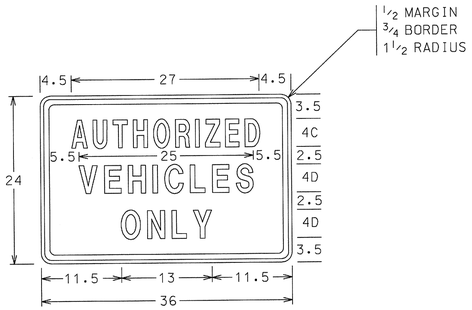
R554-1

* REDUCE SPACING 30%

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
STD & MIN	24	30	3/8	5/8	3 5/8	4D	2 1/4	4E	8 3/4	9 1/4	4	6 3/4	7 1/4	9 1/4	9 3/4	1 1/2
EXPWY	36	48	5/8	7/8	6	6D	4	6E	13 1/4	13 3/4	5 1/2	10 3/4	10 1/4	14 1/4	14 3/4	2 1/4
FWY	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	8E	17 1/8	17 7/8	7	14 3/8	13 5/8	18 5/8	19 3/8	3



R552-1



R552-2

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
REGULATORY SIGNS
SHEET 2 OF 2

NO SCALE JANUARY 2000

T-5B

PCBOTB

\\DSSRegulatory signs 2 of 2.dgn Jan 03, 2003 15:10:13

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

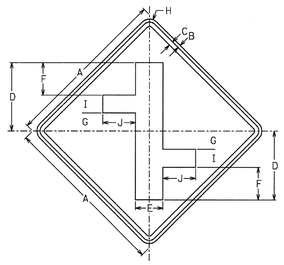
REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-024

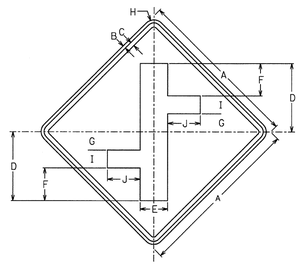
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



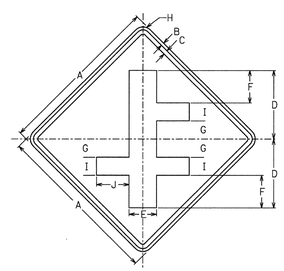
W552-1

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



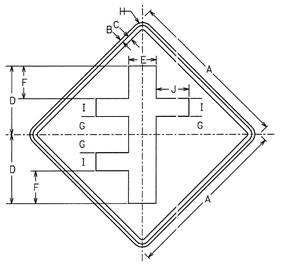
W552-2

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



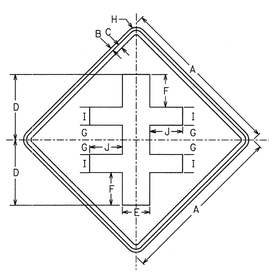
W552-3

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



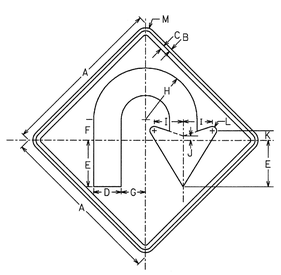
W552-4

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	6	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	6	5	2 1/4	4	10
FWY	48	7/8	1 1/4	20	8	8	6 3/4	3	5 1/4	12



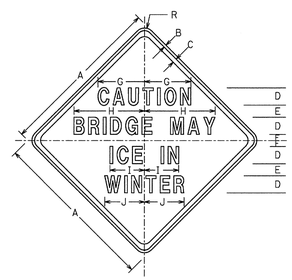
W552-6

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	I	J
STD & MIN	30	1/2	3/4	12 1/2	5	5	3 1/4	1 7/8	3 1/4	6
EXPWY	36	5/8	7/8	15	6	7	4	2 1/4	4	7
FWY	48	7/8	1 1/4	20	8	9 1/2	5 1/4	3	5 1/4	9 1/2



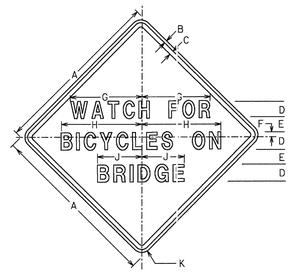
W551-1

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
STD & MIN	30	1/2	3/4	5	8 1/2	3 3/4	4 3/8	9 3/8	5 3/4	3/4	1 5/8	3/4	1 7/8
EXPWY	36	5/8	7/8	6	10	4 1/2	5 1/4	11 1/4	6 7/8	15/16	2 3/16	15/16	2 1/4
FWY	48	7/8	1 1/4	8	13 1/2	6	7	15	8 7/16	1 1/4	2 3/4	1 1/4	3



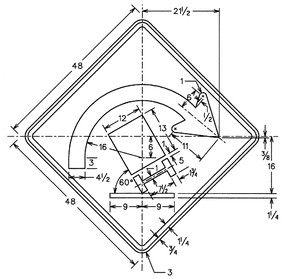
W560-1

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	I	J	R
MIN & STD	30	1/2	3/4	3D	2 3/16	1 3/32	8	12 1/2	6	7	1 7/8
EXPWY	36	5/8	7/8	4D	2 5/8	1 5/16	11	16 1/2	8	9	2 1/4
FWY	48	3/4	1 1/4	5D	3 1/2	1 3/4	13 1/2	20 1/2	10	11 1/2	3



W560-2

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
MIN & STD	30	1/2	3/4	3C	1 1/2	1 3/32	9 1/2	11 1/2	6	1 7/8
EXPWY	36	5/8	7/8	4C	3 1/4	2	13	15	7 1/2	2 1/4



W560-3

SIGNS SHALL HAVE YELLOW REFLECTORIZED BACKGROUNDS WITH BLACK LEGENDS, BORDERS, AND SYMBOLS.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
WARNING SIGNS

NO SCALE JANUARY 2000

T-5C

PCBDTB

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

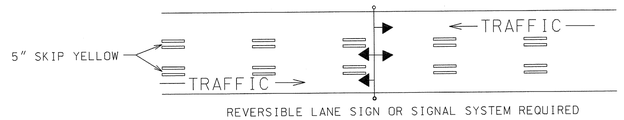
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-025

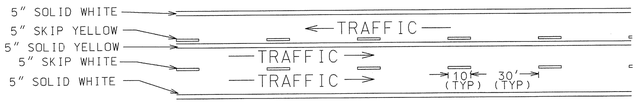
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

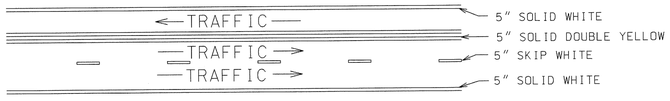


REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

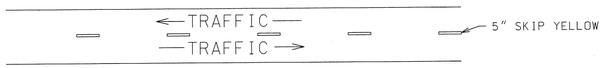
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE



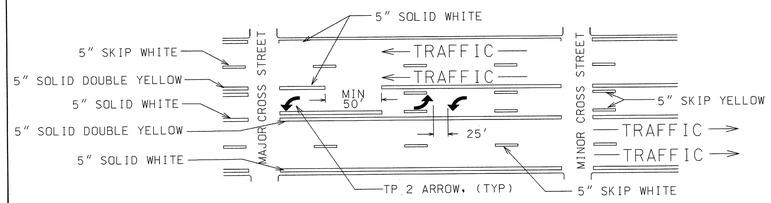
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



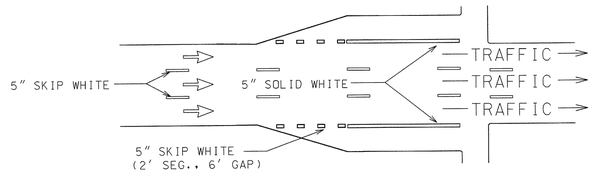
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



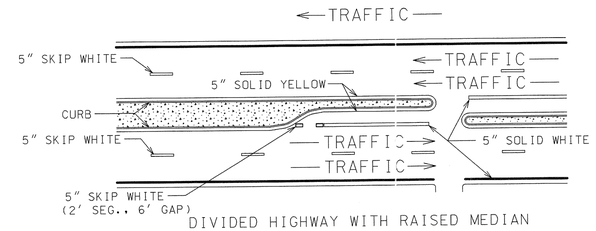
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



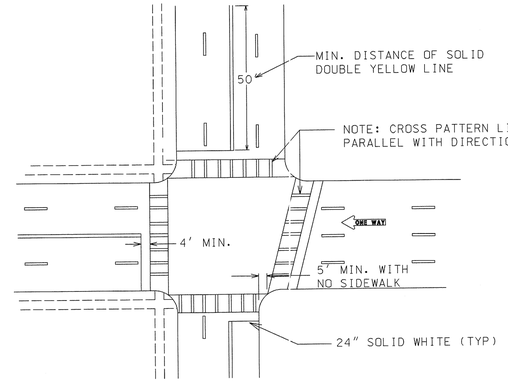
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



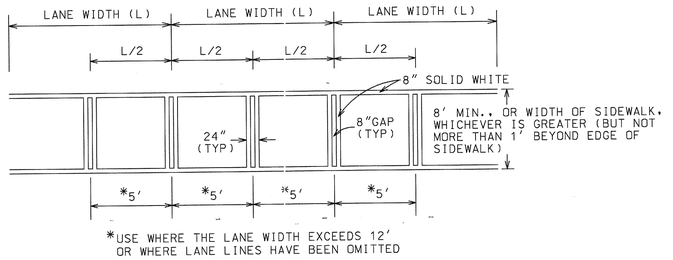
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY

NO SCALE JANUARY 2000

T-11A

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

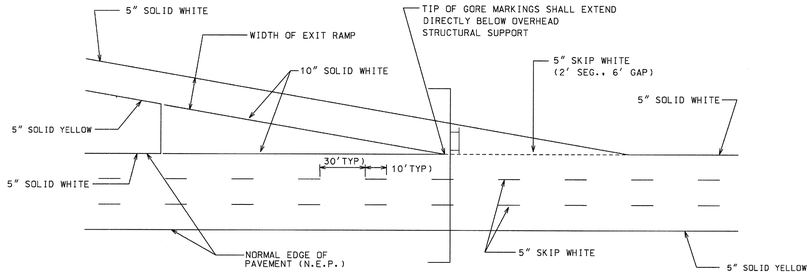
CONSTRUCTION DETAILS

DRAWING No.
40-026

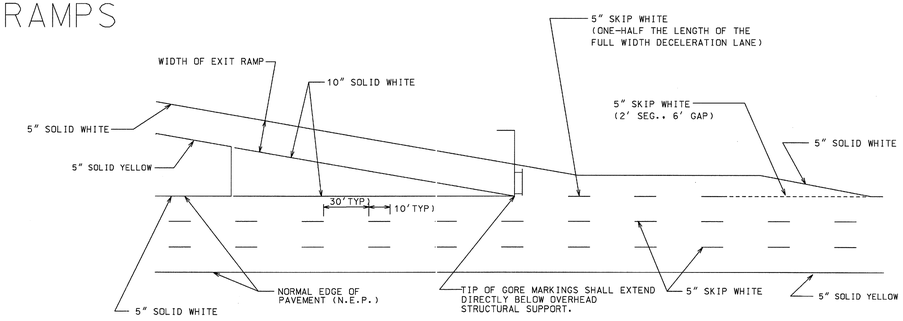
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

EXIT RAMPS

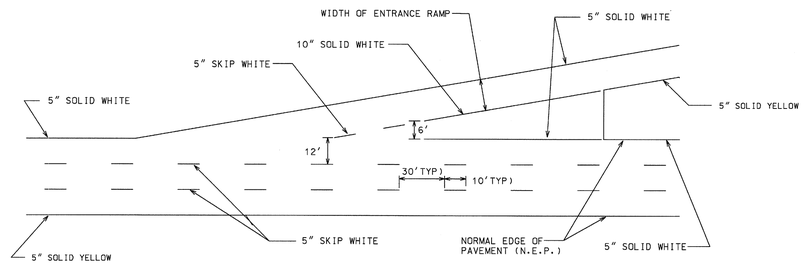


TAPERED DECELERATION LANE

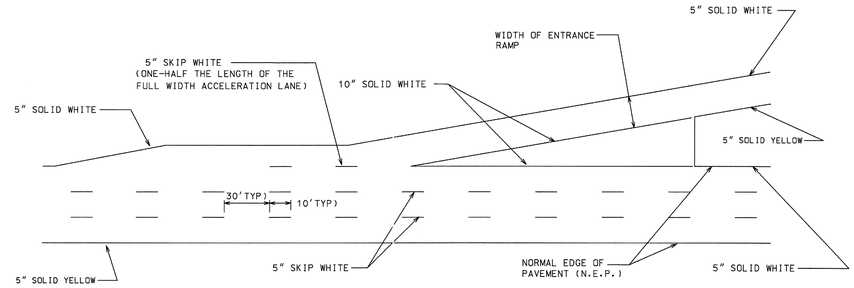


PARALLEL DECELERATION LANE

ENTRANCE RAMPS



TAPERED ACCELERATION LANE



PARALLEL ACCELERATION LANE

GENERAL NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED.
2. EDGE LINES SHALL BE OFFSET 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.
3. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH NEW PAVEMENT MARKINGS SHALL BE OBLITERATED OR REMOVED PRIOR TO THE INSTALLTION OF NEW PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE NEW PAVEMENT MARKINGS.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING PLACEMENT LIMITED ACCESS ROADWAY

NO SCALE JANUARY 2000

PC80T8

T-11B

12-02-10 13:25 J:\Traffic\Standard Details\T-11B.dgn

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

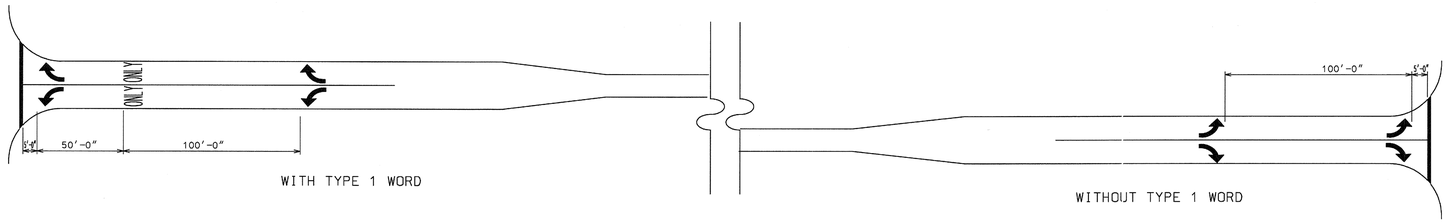
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

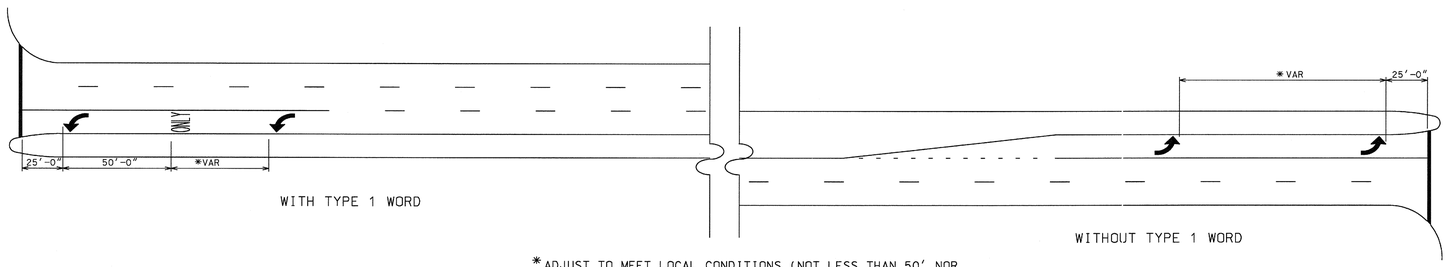
DRAWING No.
40-027

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

EXIT RAMPS

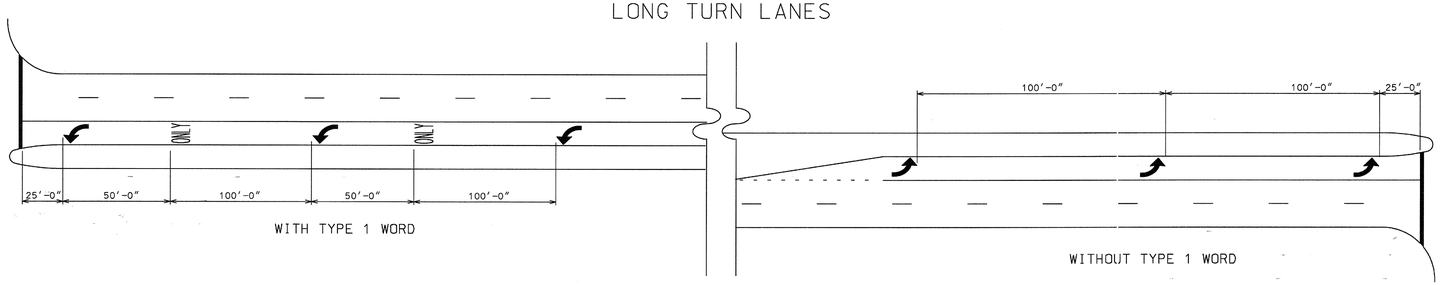


SHORT TURN LANES



*ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 100')

LONG TURN LANES



GENERAL NOTES:

1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1, TYPE 3, TYPE 4, & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING ARROW LOCATION

NO SCALE JANUARY 2000

PCBOTB

T-12A

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

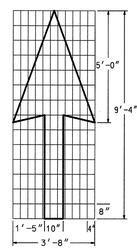
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

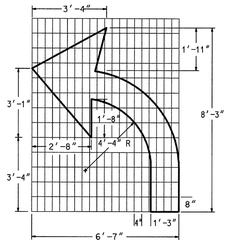
DRAWING No. 40-028

RELEASED FOR CONSTRUCTION 12/02/10

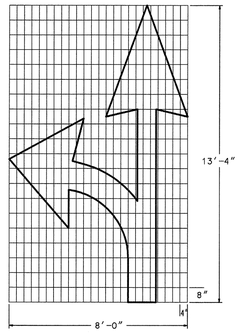
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



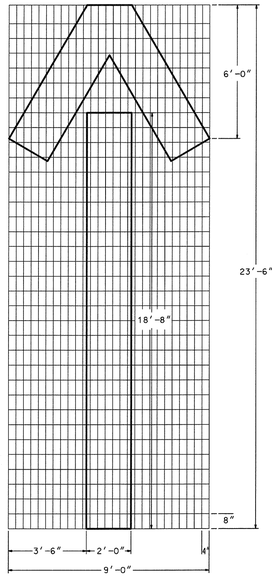
PAVEMENT MARKING, ARROW, TYPE 1
WHITE
(12.0 SQ. FT.)



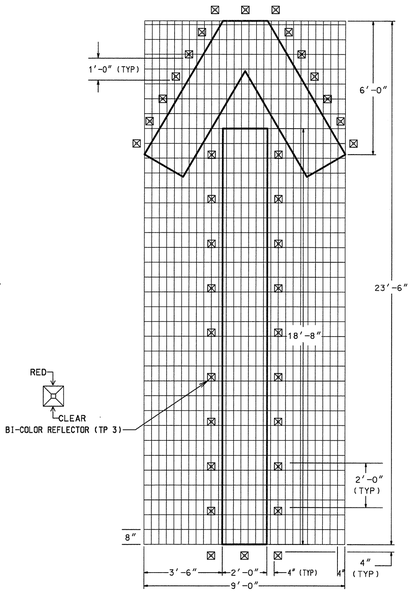
PAVEMENT MARKING, ARROW, TYPE 2
WHITE
(16.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 3
WHITE
(28.5 SQ. FT.)

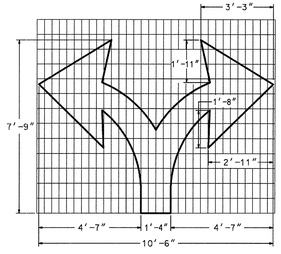


PAVEMENT MARKING, ARROW, TYPE 4
WHITE
(64.5 SQ. FT.)

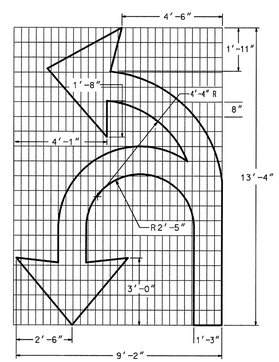


PAVEMENT MARKING, ARROW, WRONG WAY
WHITE
(64.5 SQ. FT.)

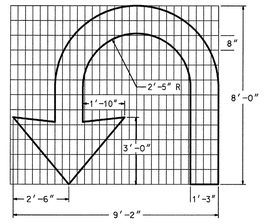
ARROW- WHITE REFLECTORIZED PAINT THERMOPLASTIC, AS SPECIFIED BY GEORGIA STANDARD SPECIFICATIONS, SECTION 655.



PAVEMENT MARKING, ARROW, TYPE 5
WHITE
(25.5 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 6
WHITE
(42.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 7
WHITE
(26.0 SQ. FT.)

DATE	REVISIONS
4-11-00	CHANGED LOCATION OF RPMs ON WRONG WAY ARROW

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
PAVEMENT MARKINGS-ARROWS

NO SCALE JANUARY 2000

PCBDTB

T-12B

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

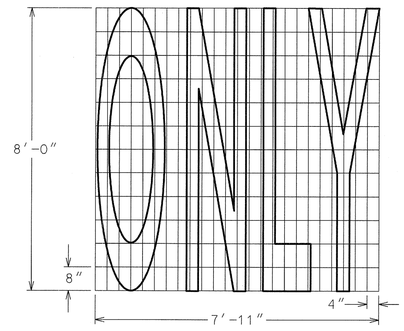
DRAWING No.
40-029

3/1/2007 GPLN

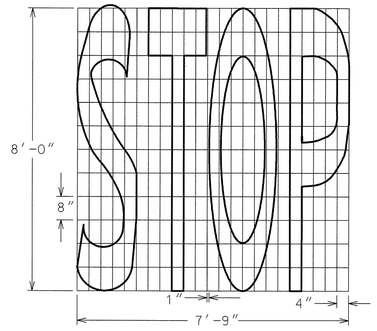
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	472	668

RELEASED FOR CONSTRUCTION 12/02/10

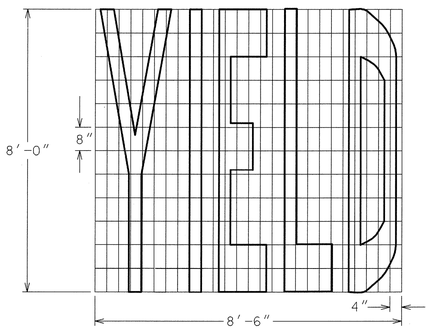
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



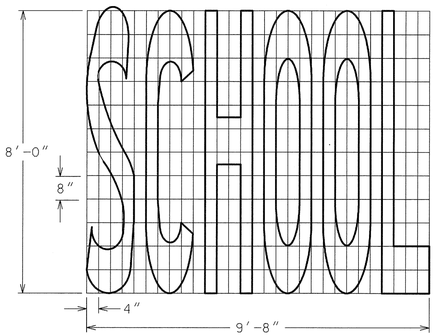
TYPE 1
AREA = 20.8 FT^2



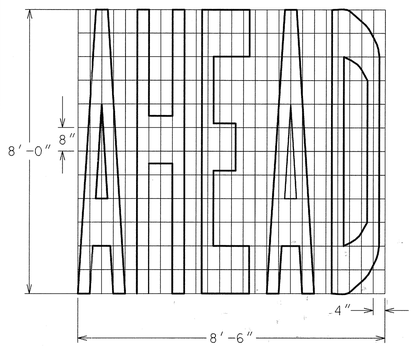
TYPE 2
AREA = 25.4 FT^2



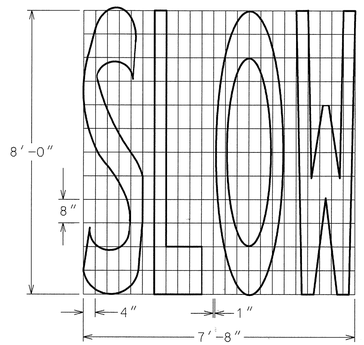
TYPE 15
AREA = 25.4 FT^2



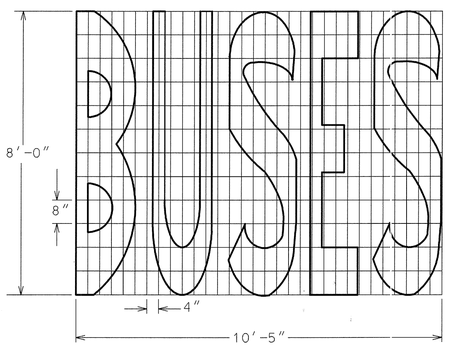
TYPE 3A
(SINGLE LANE)
AREA = 33.5 FT^2



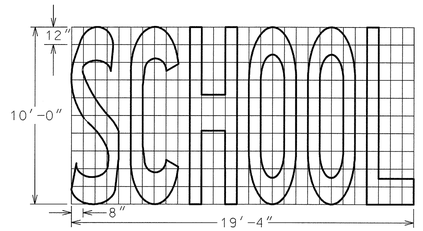
TYPE 4
AREA = 29.1 FT^2



TYPE 5
AREA = 25.4 FT^2



TYPE 6
AREA = 38.1 FT^2



TYPE 3B
(TWO LANES)
AREA = 85.0 FT^2

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
PAVEMENT MARKING WORDS
SHEET 1 OF 2

NO SCALE JANUARY 2000

PCBDTB

T-13A

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

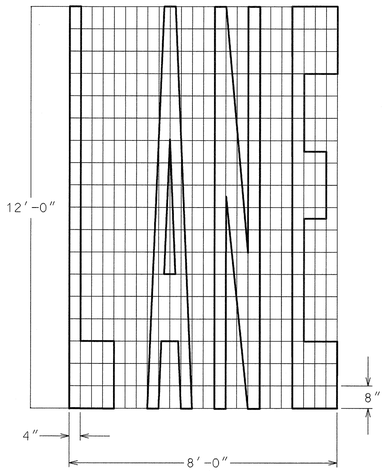
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

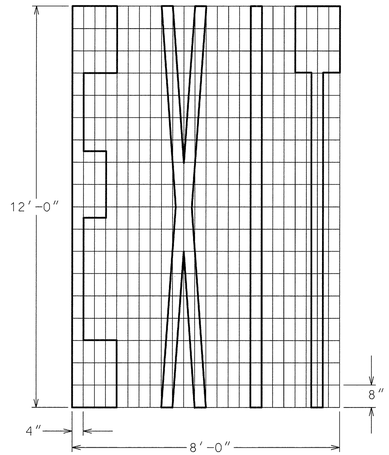
DRAWING No.
40-030

RELEASED FOR CONSTRUCTION 12/02/10

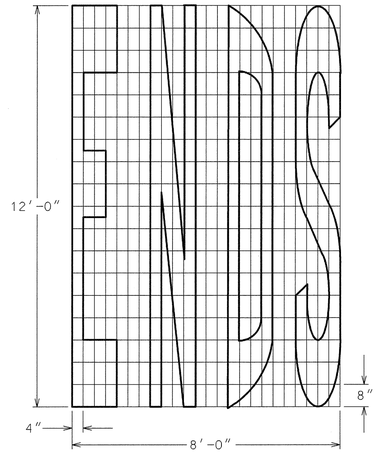
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



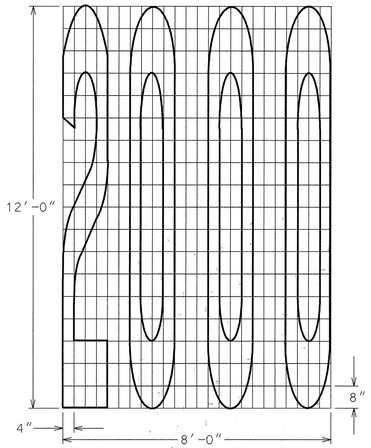
AREA = 35.9 FT^2



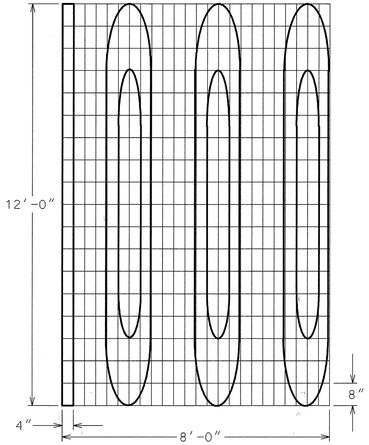
AREA = 27.7 FT^2



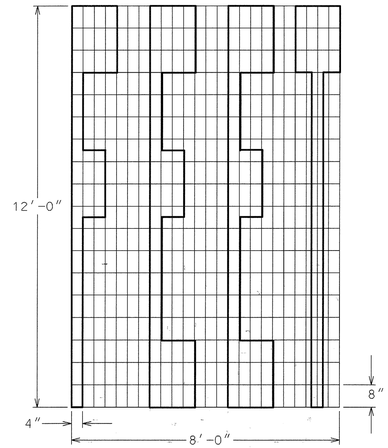
AREA = 40.1 FT^2



AREA = 39.6 FT^2



AREA = 34.3 FT^2



AREA = 40.1 FT^2

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
PAVEMENT MARKING WORDS
SHEET 2 OF 2

NO SCALE JANUARY 2000

T-13B

PCBDTB

\\133server2 2 07_2 dgn Jul 03, 2003 16:18:17

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

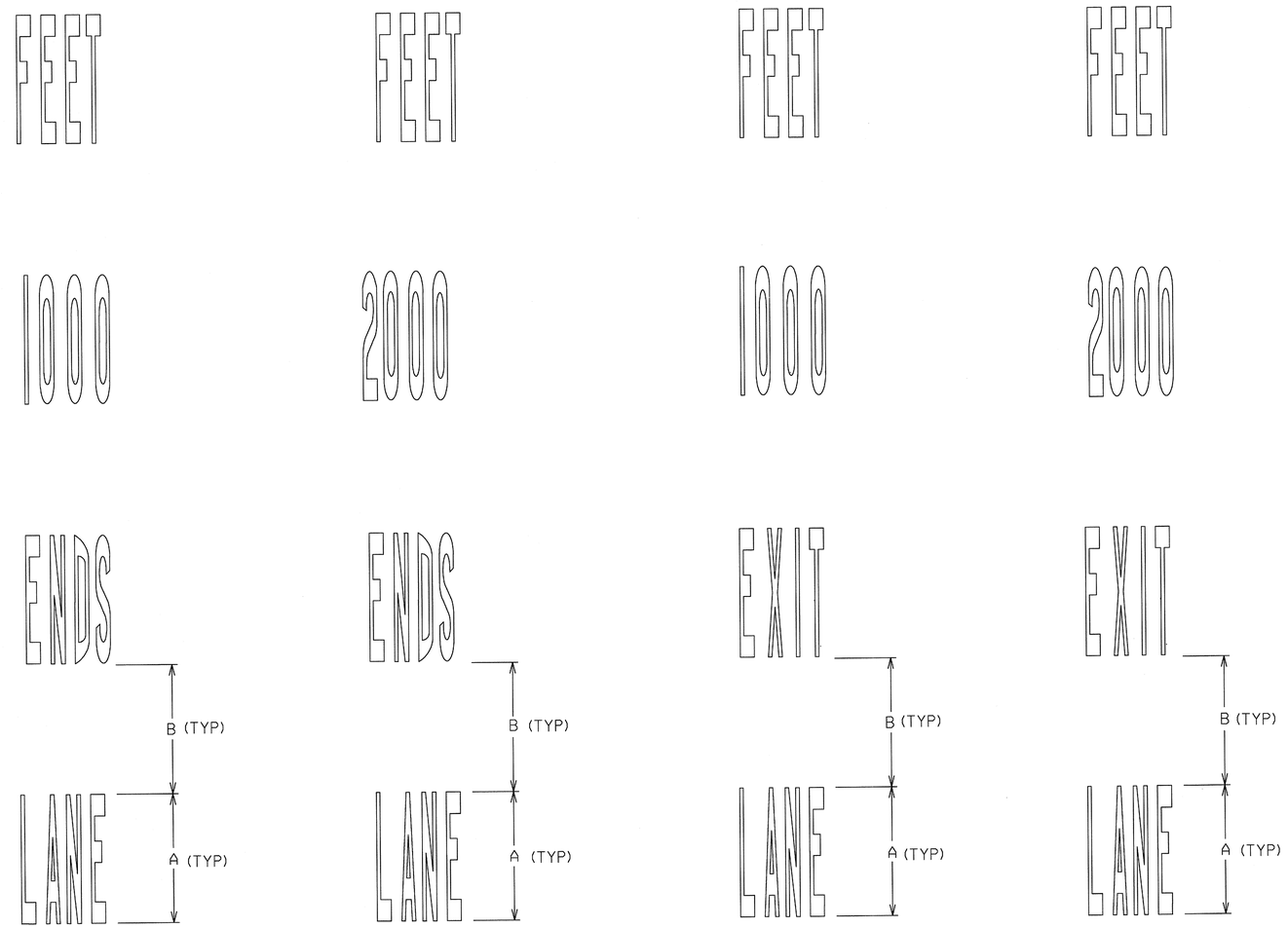
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-031

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TYPE 10
AREA = 143.2 FT^2

TYPE 11
AREA = 148.5 FT^2

TYPE 12
AREA = 130.8 FT^2

TYPE 13
AREA = 136.1 FT^2

SPEED LIMIT	DISTANCE (FEET)	
	A	B
35	8	80
45	8	80
55	12	120
65	12	120

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING WORDS PLACEMENT

NO SCALE JANUARY 2000

T-13C

PCBOTB

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION DETAILS

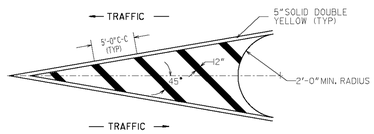
DRAWING No.
40-032

3/1/2007 GPLN

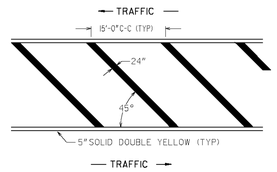
RELEASED FOR CONSTRUCTION 12/02/10

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

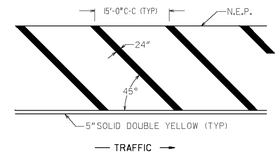
DETAIL "A"(YELLOW)



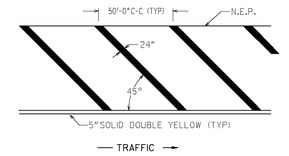
DETAIL "B"(YELLOW)



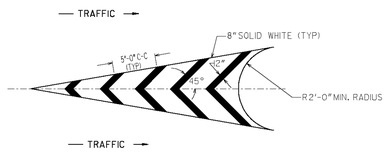
DETAIL "C"(YELLOW)



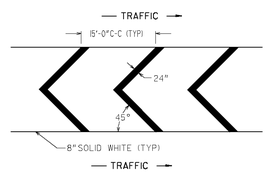
DETAIL "D"(YELLOW)



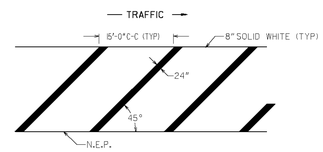
DETAIL "A"(WHITE)



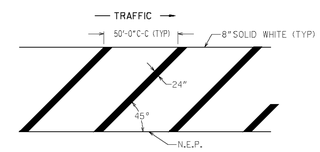
DETAIL "B"(WHITE)



DETAIL "C"(WHITE)



DETAIL "D"(WHITE)



GENERAL NOTES:

1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDE THE AREA WITHIN THE BORDERS AND THE 5" SOLID DOUBLE YELLOW BORDER.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

GEORGIA DEPARTMENT OF TRANSPORTATION

- NO SCALE -

DATE	REVISIONS
6/25/04	Modified general note 1
1/18/05	CHANGED BORDER
11/21/08	Modified general note 1

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNING AND MARKING PLANS

DETAIL OF PAVEMENT MARKING HATCHING
JANUARY 2000
T-14
NUMBER T -14

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

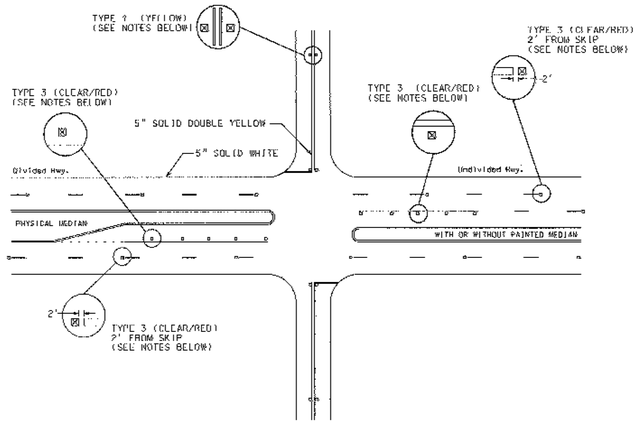
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-033

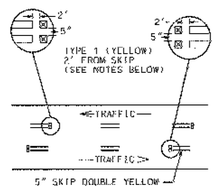
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

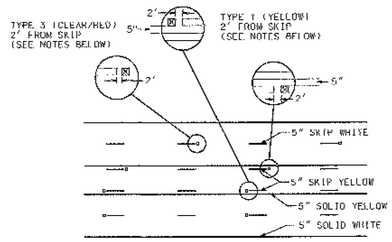
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



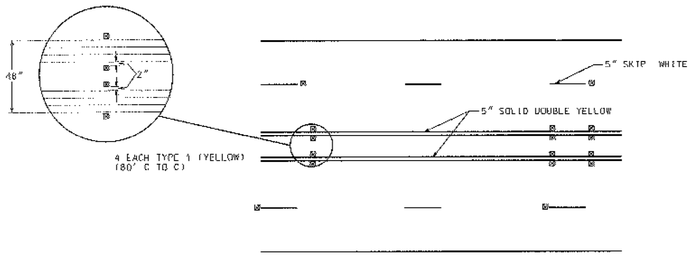
DIVIDED / UNDIVIDED HIGHWAY



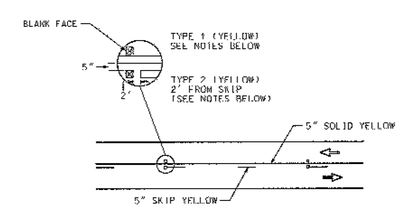
REVERSIBLE LANE



TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



NO PASSING ZONE

GENERAL NOTES:

1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 80 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES, SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.
5. ON HORIZONTAL CURVES WHERE AT LEAST 3 MARKERS CANNOT BE SEEN AT ONE TIME USING NORMAL SPACING, MARKERS SHALL BE PLACED 40 FT.

DATE	REVISIONS
9-4-03	NO PASSING ZONE RPM's
1-13-04	NO PASSING ZONE RPM's

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
RAISED PAVEMENT MARKER LOCATION
NON-LIMITED ACCESS ROADWAY
NO SCALE JANUARY 2000

T-15A

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

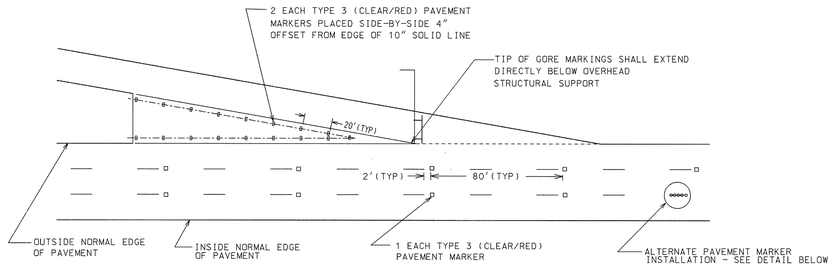
DRAWING No.
40-034

3/1/2007 GPLN

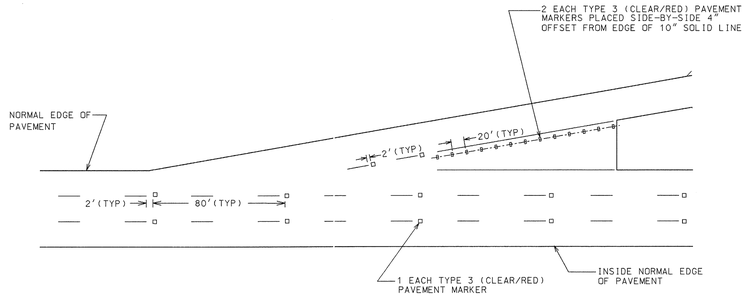
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

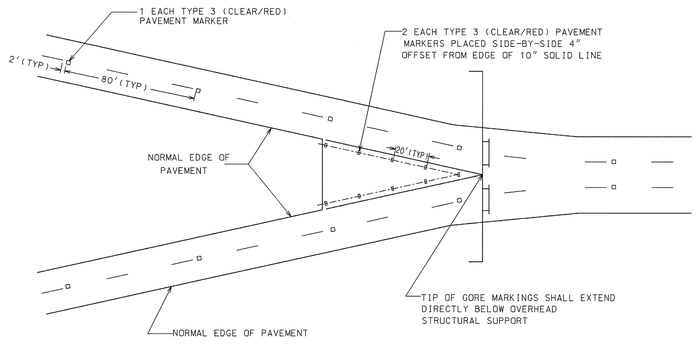
EXIT RAMP



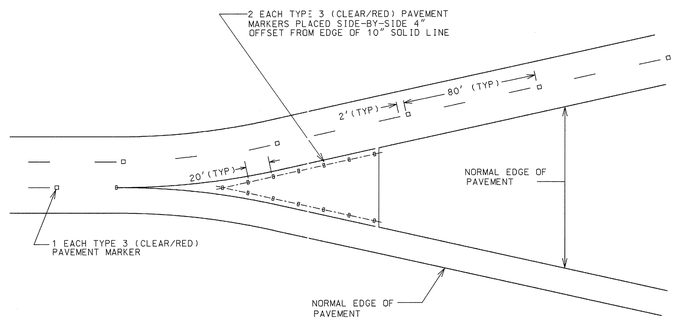
ENTRANCE RAMP

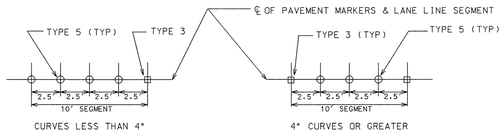


DIVERGING RAMPS



CONVERGING RAMPS





ALTERNATE PAVEMENT MARKER INSTALLATION

(USE ON ALL LANE LINES WHEN LANE LINES CROSS LONGITUDINAL CONCRETE PAVEMENT JOINTS)

GENERAL NOTES:

1. FOR SPECIFICATIONS REFER TO STANDARD SPECIFICATIONS; SECTION 654-RAISED PAVEMENT MARKERS.
2. CENTERLINE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL COINCIDE WITH CENTERLINE OF LANES.
3. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD APPROACHING TRAFFIC.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
RAISED PAVEMENT
MARKER LOCATION
LIMITED ACCESS ROADWAY

NO SCALE JANUARY 2000

T-15B

...\t15bpm location (raised mrkrs) July 02, 2003 10:20:39

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

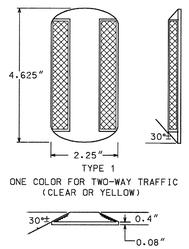
CONSTRUCTION DETAILS

DRAWING No. 40-035

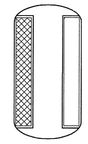
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

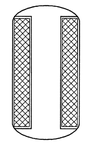
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



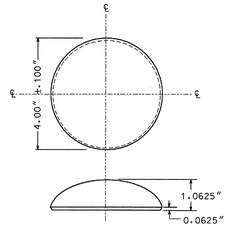
TYPE 1
ONE COLOR FOR TWO-WAY TRAFFIC
(CLEAR OR YELLOW)



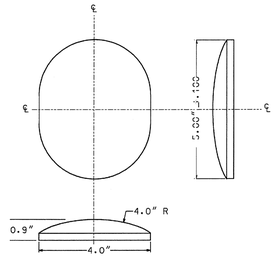
TYPE 2
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW OR RED)



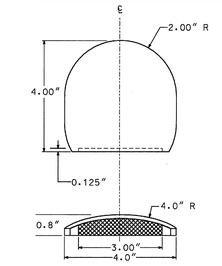
TYPE 3
TWO COLOR FOR ONE-WAY TRAFFIC
(ANY COMBINATION OF CLEAR, YELLOW OR RED)



TYPE 4
OPAQUE CERAMIC MARKER
(WHITE, YELLOW OR BLACK)

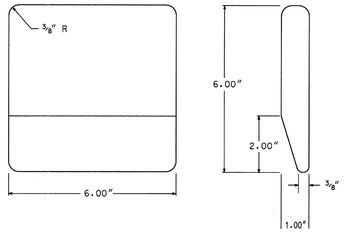


TYPE 5
OVAL CERAMIC MARKER
(NON-REFLECTIVE WHITE, YELLOW OR BLACK)

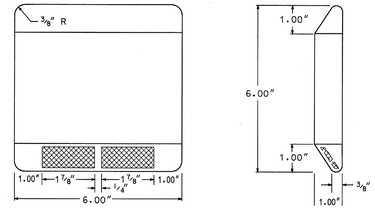


TYPE 6
REFLECTIVE CERAMIC MARKER
(REFLECTIVE WHITE, YELLOW OR BLACK)

RAISED REFLECTIVE MARKERS

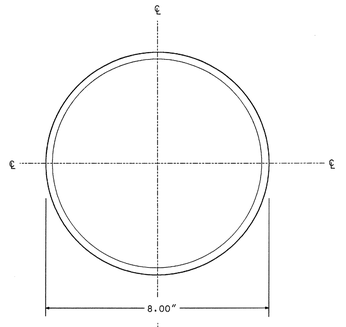


TYPE 7
NON-REFLECTIVE MARKER
(WHITE OR YELLOW)

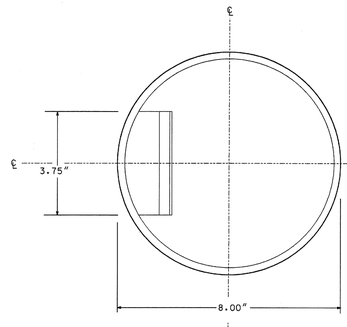


TYPE 8
REFLECTIVE MARKER
(WHITE OR YELLOW)

CERAMIC JIGGLE BAR MARKER

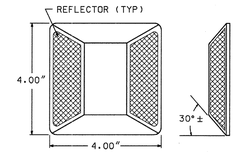


TYPE 9
NON-REFLECTIVE
(WHITE OR YELLOW)

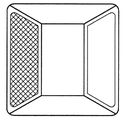


TYPE 10
REFLECTIVE
(WHITE OR YELLOW)

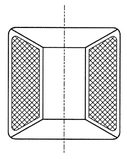
CERAMIC CHANNEL MARKER



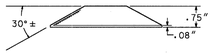
TYPE 11
ONE COLOR FOR TWO-WAY TRAFFIC
(CLEAR OR YELLOW)



TYPE 12
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW, OR RED)



TYPE 13
TWO COLOR FOR ONE-WAY TRAFFIC
(ANY COMBINATION OF CLEAR, YELLOW, OR RED)



ALTERNATE RAISED REFLECTIVE MARKERS

GENERAL NOTES:

1. SPECIFICATIONS SHALL BE PER THE SPECIAL PROVISIONS, OR AS SPECIFIED BELOW.
2. COLORS FOR REFLECTIVE ELEMENTS SHALL BE EITHER CLEAR, YELLOW, OR RED AS SPECIFIED.
3. THE SHELL OF THE REFLECTIVE MARKERS SHALL BE OF ONE COLOR OR OF A COMBINATION OF TWO COLORS, WHICH SHALL BE THE SAME AS THE REFLECTIVE ELEMENT.
4. THE SURFACE OF OPAQUE CERAMIC MARKERS SHALL BE GLAZED AND OF THE COLOR SPECIFIED IN THE PLANS WITH A WHITE, VITREOUS, CERAMIC BASE.
5. RAISED REFLECTIVE MARKERS TYPES 1, 2, AND 3 SHALL BE STIMSONITE SERIES 948, OR EQUAL.
6. CERAMIC JIGGLE BARS SHALL BE FERRO CORPORATION PENMARK P-6, OR EQUAL. ADHESIVE SHALL BE PER MANUFACTUROR'S SPECIFICATIONS.
7. CERAMIC CHANNEL MARKERS SHALL BE FERRO CORPORATION PENMARK P-18, OR EQUAL. ADHESIVE SHALL BE PER MANUFACTUROR'S SPECIFICATIONS.
8. COLORS FOR ALL RAISED PAVEMENT MARKERS SHALL BE AS SPECIFIED IN THE PLANS.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
RAISED PAVEMENT MARKERS

NO SCALE JANUARY 2000

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-036

RELEASED FOR CONSTRUCTION 12/02/10

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BRIDGE DELINEATION DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TYPE 1 - NORMAL BRIDGE

BRIDGES THAT ARE 4 FEET OR MORE WIDER THAN THE APPROACH PAVEMENT, EACH SIDE

SUMMARY OF MATERIALS		
DESCRIPTION	UNIT	QUAN.
TWO WAY OPERATION		
DELINEATORS, TYPE 2, WHITE	EACH	12
ONE WAY OPERATION		
DELINEATORS, TYPE 1, WHITE	EACH	3
DELINEATORS, TYPE 1, YELLOW	EACH	3

GENERAL NOTES

1. PLACE DELINEATORS IN A STRAIGHT LINE FLARE WITH THE FIRST ONE OFFSET AS SHOWN.
2. THE INSIDE EDGE OF THE DELINEATOR NEAREST THE BRIDGE SHALL BE IN LINE WITH THE INNER EDGE OF RAIL OR ABUTMENT OR FACE OF BRIDGE CURB (IF PRESENT).
3. ALL DELINEATORS SHALL CONFORM TO GEORGIA STANDARD 9030-C AND SECT 3-D OF THE M.U.T.C.D.
4. TREATMENT SHOWN IS MINIMAL, ADDITIONAL DELINEATION MAY BE ADDED AT THE ENGINEER'S DESCRETION.

TYPE 2 - INTERMEDIATE BRIDGE

2 OR MORE LANE OPERATION - WIDTH GREATER THAN ROADWAY WIDTH, BUT LESS THAN 4' IN EXCESS OF APPROACH PAVEMENT WIDTH, EACH SIDE

SUMMARY OF MATERIALS			
DESCRIPTION	UNIT	QUAN.	QUAN. TWO WAY
OBJECT MARKERS, TYPE IX SIGN MATERIAL 12" x 36" (BLACK ON YELLOW)	SQ FT	2:6.00	4:12.00
GALVANIZED STEEL POSTS, TYPE I 12 LIN FT EACH (2")	LIN FT	2:24	4:48
OBJECT MARKER, TYPE 2 YELLOW (MOUNT ON OBJECT MARKER POSTS)	EACH	4	8
SOLID TRAFFIC STRIPE, 4" WHITE (EDGELINE)	LIN FT	1100	2200
SOLID TRAFFIC STRIPE, 4" YELLOW (EDGELINE)	LIN FT	1100	

GENERAL NOTES

1. ON BRIDGES WITH ONE WAY OPERATION, BRIDGE APPROACH DELINEATION (INCL. SIGNS AND MARKINGS) SHALL BE INSTALLED ON THE APPROACH END ONLY.
2. THE INSIDE EDGE OF THE OBJECT MARKER NEAREST THE BRIDGE SHALL BE IN LINE WITH THE INNER EDGE OF THE ABUTMENT OR RAIL, OR FACE OF BRIDGE CURB IF PRESENT.
3. OBJECT MARKERS SHALL BE PLACED IN A STRAIGHT LINE FLARE WITH THE FIRST UNIT OFFSET AS SHOWN.
4. ALL OBJECT MARKERS SHALL CONFORM TO GEORGIA STANDARD 9030-C AND SECT 3-D.02 OF THE M.U.T.C.D. OBJECT MARKERS SHALL BE PER SECT. 3-6 OF THE M.U.T.C.D.
5. REFLECTIVE SHEETING FOR OBJECT MARKERS SHALL BE TYPE IX, LEVEL A.
6. TREATMENT SHOWN IS MINIMAL ADDITIONAL DELINEATION MAY BE ADDED AT THE ENGINEER DISCRETION.

DETAIL - OBJECT MARKER
(NO SCALE)

TYPE 3 - NARROW BRIDGE

(A.) 2 LANE OPERATION - BETWEEN 18' AND 24' WIDE (B.) 3 OR MORE LANE OPERATION EQUAL TO OR LESS THAN APPROACH PAVEMENT WIDTH

SUMMARY OF MATERIALS			
DESCRIPTION	UNIT	QUAN. ONEWAY	QUAN. TWOWAY
OBJECT MARKERS, TYPE 3, TYPE I SIGN MATERIAL, OM-3L, OM-3R BLACK ON YELLOW	SQ. FT.	4:1200	8:24
GALVANIZED STEEL POSTS, TYPE I, 12 LIN FT EACH FOR OBJECT MARKERS	LIN.FT.	4:48	8:96
OBJECT MARKER, TYPE 2, (YELLOW)	EACH	8	16
W5-2(36)SIGNS, TYPE III SIGN MATL.	SQ. FT.	2:18:00	4:36
W13-1(24)(45), SIGNS, TYPE III SIGN MATL - MOUNT W/W5-2	SQ. FT.	2:18:00	4:36
GALV. STEEL POSTS, TYPE I, PB, (4") 16 LIN FT EA FOR W5-2	LIN.FT.	2:64	4:128
R4-1(24) SIGNS, TYPE I SIGN MATL	SQ. FT.		2:10:00
GALV. STEEL POSTS, TYPE III (2") 13 LIN FT EA FOR R4-1	LIN.FT.		2:26
W14-3(48)SIGNS, TYPE III SIGN MATL.	SQ. FT.		2:11
GALV. STEEL POSTS, TYPE 2 (3") 12 LIN FT EA FOR W14-3	LIN.FT.		2:24
RAISED PAVEMENT MARKERS TYPE I FOR CENTERLINES SPACING 40-0"	EACH	CLEAR 18	YELLOW 36
4" SOLID TRAF. STRIPE FOR EDGELINES	LIN.FT.	100 WHITE 100 YELLOW	YELLOW 2:200
4" SOLID YELLOW - PASSING LINES	LIN.FT.		1400
4" SKIP WHITE - CENTERLINE (ONEWAY)	GR LIN.FT.	700	

GENERAL NOTES

1. ON BRIDGES WITH ONE WAY OPERATION, BRIDGE APPROACH SIGNS AND MARKINGS SHALL BE INSTALLED ON THE APPROACH END OF THE BRIDGE ONLY. SIGNS AND MARKINGS FOR NO PASSING ZONES ARE NOT REQUIRED. LEFT EDGE LINES AND RAISED PAVEMENT MARKERS SHALL BE YELLOW. RIGHT EDGE LINES AND PAVEMENT MARKERS SHALL BE WHITE. LANE LINE SHALL BE SKIP WHITE.
2. PAVEMENT MARKERS FOR THE CENTERLINE/LANELINE SHALL BE RAISED IN APPLICABLE AREA IN ACCODANCE WITH DEPARTMENT POLICY.
3. THE INSIDE EDGE OF THE OBJECT MARKER NEAREST THE BRIDGE SHALL BE IN LINE WITH THE INNER EDGE OF THE ABUTEMENT OR RAIL, OR FACE OF BRIDGE CURB IF PRESENT.
4. PLACE OBJECT MARKER AND DELINEATORS IN A STRAIGHT LINE FLARE WITH THE FIRST ONE OFFSET AS SHOWN.
5. ALL REFLECTIVE SHEETING SHALL BE TYPE IX.
6. ALL OBJECT MARKERS SHALL CONFORM TO GA STD. 9030-C AND SECT 111 OF THE M.U.T.C.D.. ALL OBJECT MARKERS SHALL CONFORM TO SECT. III-C OF THE M.U.T.C.D.
7. TREATMENT SHOWN IS MINIMAL, ADDITIONAL TREATMENT MAY BE ADDED AT THE ENGINEER DISCRETION.

DETAIL - OBJECT MARKER
(NO SCALE)

TYPE 4 - ONE LANE BRIDGE

(A.) BRIDGES LESS THAN 18' IN WIDTH. (B.) 18' WIDE WITH POOR APPROACH ALIGNMENT OR SUBSTANTIAL TRUCK VOLUME.

SUMMARY OF MATERIALS		
DESCRIPTION	UNIT	QUAN.
OBJECT MARKERS, TYPE 3, TYPE IX SIGN MATL 8 EACH OM-3R, OM-3L	SQ FT	16:48.00
GALV. STEEL POSTS, TYPE I, 12' (2") FOR OBJECT MARKERS	LIN FT	16:192
OBJECT MARKER, TYPE 2, YELLOW MOUNTED ON OBJECT MARKERS POST	EACH	16
OBJECT MARKER, TYPE 2 YELLOW INCL. POSTS	EACH	28
W5-3(36) SIGNS, TYPE IX SIGN MATL.	SQ FT	8:72.00
W13-1(24)(35) SIGNS, TYPE IX SIGN MATL. MOUNTED WITH W5-3	SQ FT	4:16.00
W13-1(24)(45) SIGNS, TYPE IX SIGN MATL. MOUNTED WITH W5-3	SQ FT	4:16.00
GALV. STEEL POSTS, TYPE I, (PB-4") 16' L FOR W5-3 SIGNS	LIN FT	8:256
SOLID TRAFFIC STRIPE-8" WHITE FOR EDGELINE	LIN FT	2200
SOLID TRAFFIC STRIPE-4" YELLOW FOR APPROACH CENTERLINE (1000 MIN EA END)	LIN FT	4000
RAISED/RECESSED MARKERS, TYPE I YELLOW FOR CENTERLINE - 40'-0" SPACING	EACH	100

DETAIL - OBJECT MARKER
(NO SCALE)

GENERAL NOTES

1. OBJECT MARKER NEAREST THE BRIDGE SHALL BE IN LINE WITH THE INNER EDGE OF THE ABUTEMENT OR RAIL, OR THE FACE OF BRIDGE CURB IF PRESENT. OBJECT MARKERS AND DELINEATORS SHALL FOLLOW THE TAPER OF THE ROADWAY TO FULL WIDTH OF ROADWYA THEN PARALLEL FOR DISTANCE SHOWN.
2. PAVEMENT MARKERS USED ON NO PASSING LANES APPROACHING THE BRIDGE SHALL BE ON 40'-0" SPACING AND SHALL BE RAISED WHERE APPLICABLE.
3. 4 IN SOLID YELLOW NO PASSING LINES SHALL BE INSTALLED FOR AT LEAST 1000' IN ADVANCE OF THE BRIDGE.
4. REFLECTIVE SHEETING TYPE IX, LEVEL A SHALL BE USED FOR ALL SIGNS AND OBJECT MARKERS.
5. ALL DELINEATIORS SHALL CONFORM TO GA. STD. 9030-C AND SECT. 3D.02 OF THE M.U.T.C.D. OBJECT MARKERS SHALL CONFORM TO SECT. 3C.01 OF THE M.U.T.C.D.
6. DELINEATION SHOWN IS MINIMAL. ADDITIONAL DELINEATION MAY BE ADDED AT THE ENGINEERS DISCRETION.
7. IN THE EVENT THE ROADWAY IS A ONE WAY OPERATION, CONTACT THE DISTRICT TRAFFIC AND SAFETY ENGINEER FOR DELINEATION DETAILS.

DATE	REVISIONS
9-7-06	ADDED TITLE BLOCK AND
	REV. REFLECTIVE SHEET.

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS FOR
BRIDGE DELINEATION
ON DIVIDED HIGHWAYS
TWO WAY OPERATION

NO SCALE REV 5/23/05

PCBDTB

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

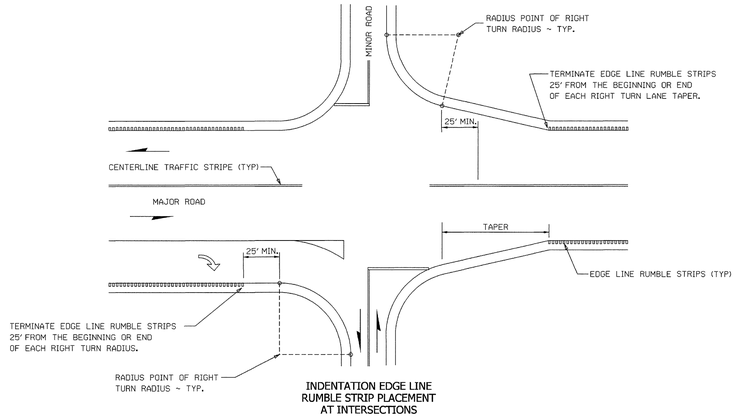
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

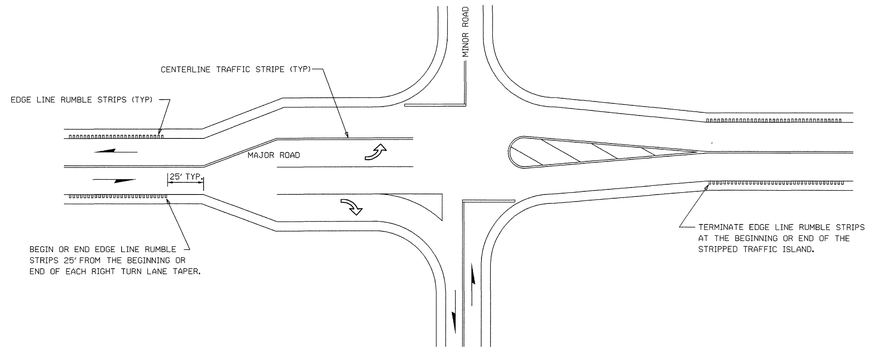
DRAWING No. 40-037

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	480	668

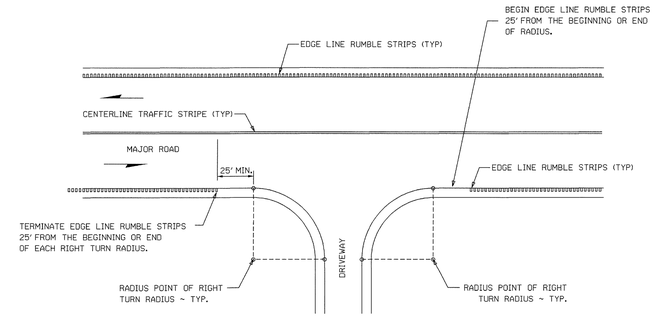
COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



INDENTATION EDGE LINE RUMBLE STRIP PLACEMENT AT INTERSECTIONS

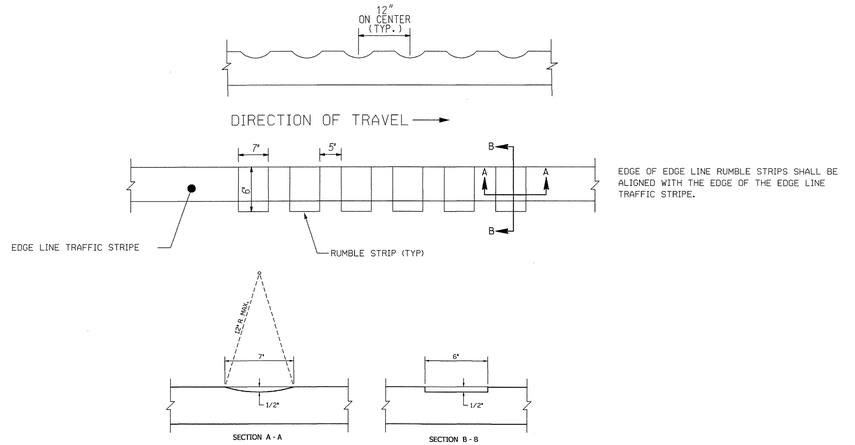


INDENTATION EDGE LINE RUMBLE STRIP PLACEMENT AT INTERSECTIONS



INDENTATION EDGE LINE RUMBLE STRIP PLACEMENT AT DRIVEWAYS

INDENTATION EDGE LINE RUMBLE STRIPS ARE MEASURED PER LINEAR FEET. THE PLAN QUANTITY IS THE PAY QUANTITY UNLESS THE ENGINEER MAKES AUTHORIZED CHANGES. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER LINEAR FOOT. PAYMENT IS FULL COMPENSATION FOR FURNISHING EQUIPMENT, LABOR, AND FOR PERFORMING THE WORK IN ACCORDANCE WITH THE DETAILS AND SECTION 456 OF THE SPECIFICATIONS.



MILLED EDGE LINE RUMBLE STRIP DETAILS

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC SAFETY AND DESIGN

CONSTRUCTION DETAIL
EDGE LINE RUMBLE STRIP

DRAWING No. T-23

\\edge line rumble details.dgn 10/29/2007 11:45:56 PM

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

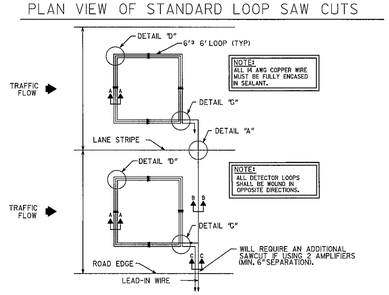
CONSTRUCTION DETAILS

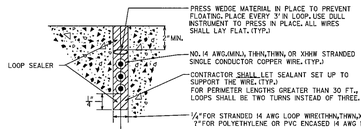
DRAWING No. 40-038

RELEASED FOR CONSTRUCTION 12/02/10

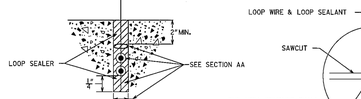
INDUCTIVE LOOP VEHICLE DETECTOR DETAILS
USING STRANDED COPPER WIRE

PLAN VIEW OF STANDARD LOOP SAW CUTS

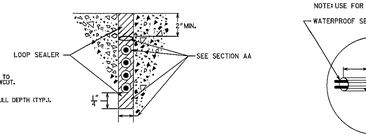




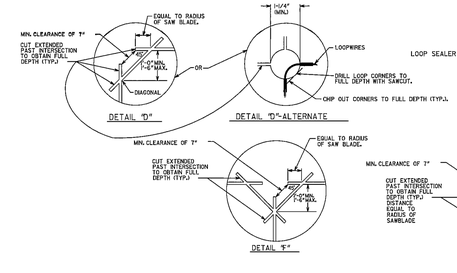
SECTION AA

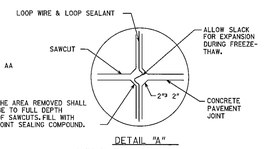


SECTION BB

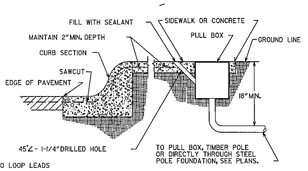


SECTION CC

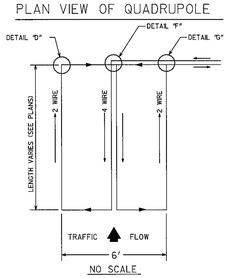




TYPICAL CURB DETAIL
(WITH SIDEWALK)



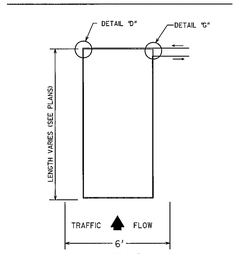
PLAN VIEW OF QUADRUPOLE



LOOP WIRE CONFIGURATION

THE DOUBLE LAYER CONFIGURATION (2-4-2) SHOWN IS A MINIMUM DESIGN FOR NORMAL INSTALLATIONS WHEN REQUIRED BY THE PLANS.

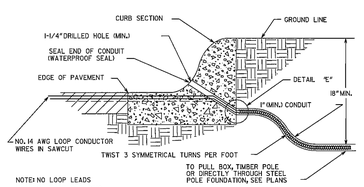
PLAN VIEW OF STANDARD LOOP



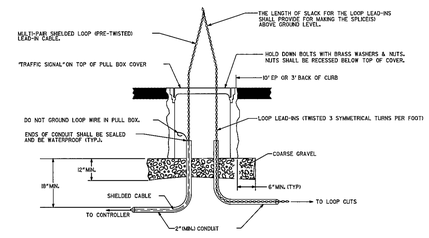
LOOP WIRE CONFIGURATION

THE DOUBLE LAYER CONFIGURATION (2-2) SHOWN IS A MINIMUM DESIGN FOR NORMAL INSTALLATIONS WHEN REQUIRED BY THE PLANS.

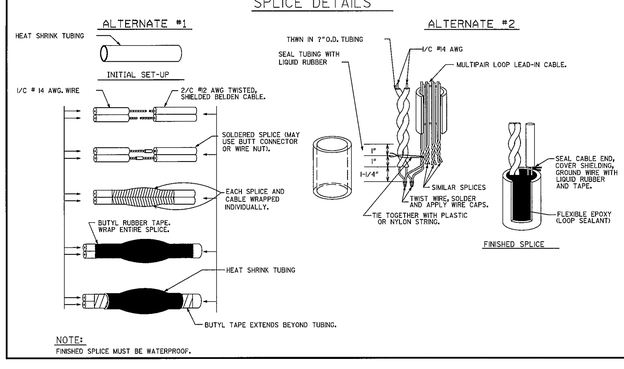
TYPICAL CURB DETAIL
(WITHOUT SIDEWALK)



PULL BOX-SPLICE DETAILS

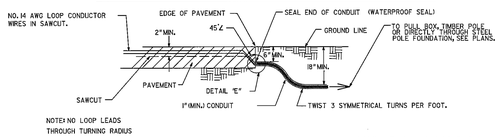


SPLICE DETAILS



NOTE:
FINISHED SPLICE MUST BE WATERPROOF.

DETAIL WHERE NO CURB EXISTS



Guidelines For Usage On Metric Projects

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				REVISION DATES		
		GEORGIA DEPARTMENT OF TRANSPORTATION	-NO SCALE-	1/13/04		
				4/12/04		
				7/27/04		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNAL PLANS
LOOP DETECTOR INSTALLATION DETAIL
DECEMBER 1998
DRAWING No. TS-01

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

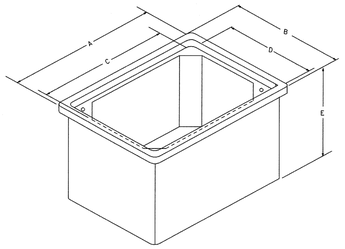
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS
DRAWING No. 40-039

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

			COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

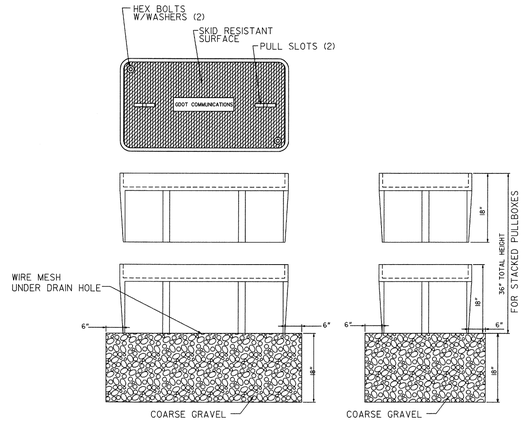
PULLBOX DIMENSIONS



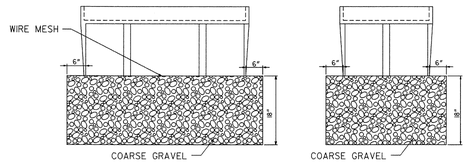
PULL BOX TYPE	* SIZE (IN.)				
	A	B	C	D	E
1	14	14	12	12	12
2	21	14	18	11	12
3	33	20	30	17	12
4S	38	26	36	24	18
4	38	26	36	24	36
5S	50	32	48	30	18
5	50	32	48	30	36
6	38	26	36	24	36
7	50	32	48	30	36

* SIZES SHOWN ARE MINIMUM TRADE SIZES. DIMENSIONS C AND D ARE MINIMUM REQUIREMENTS WITH A TOLERANCE OF NO MORE THAN - 0.50 IN/+2.0 IN.

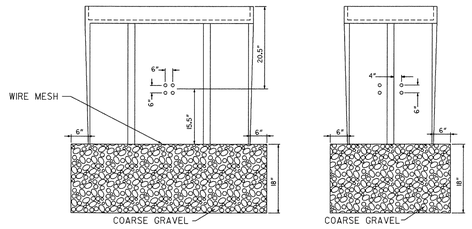
TYPE 4, 5, 4S, 5S, 6, AND 7 PULLBOX ASSEMBLIES



TYPE 4 AND 5

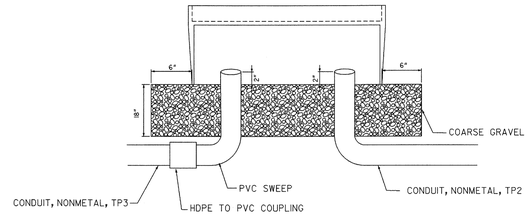


TYPE 4S AND 5S



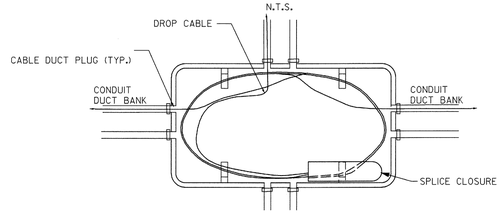
TYPE 6 AND 7

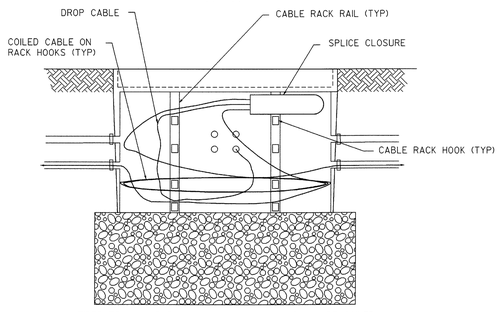
TYPICAL CONDUIT ENTRANCE DETAILS
TYPE 1,2,3,4S & 5S



FIBER OPTIC CABLE MANAGEMENT IN TYPE 4,5,6 & 7 PULL BOX

N.T.S.





FIBER TRUNK AND DROP CABLE IN CLOSURE SHALL BE COILED TOGETHER. SEPARATE FIBER CABLES SHALL BE COILED SEPARATELY AND SUPPORTED ON SEPARATE RACK HOOKS.

Guidelines For Usage On Metric Projects

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GEORGIA
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

REVISION DATES		
11/02/2000		
07/27/2004		
08/11/2006		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC SAFETY & DESIGN

SIGNAL DETAILS

PULL BOX ASSEMBLY AND INSTALLATION

DRAWING No. TS-02

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

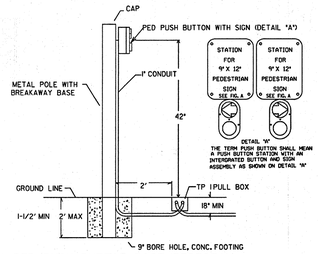
CONSTRUCTION DETAILS

DRAWING No. 40-040

3/1/2007 GPLN

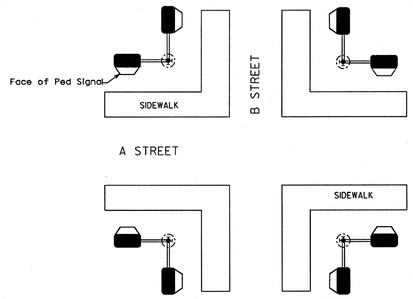
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	483	668

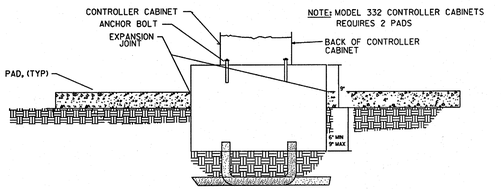
RELEASED FOR CONSTRUCTION 12/02/10



PED. PUSH BUTTON POST/PEDESTAL

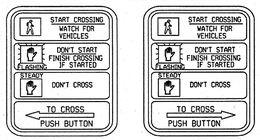
FOR USE WHEN DITCHES OR UNEVEN TERRAIN IS BETWEEN POLE AND EDGE OF PAVEMENT.





NOTE: MODEL 332 CONTROLLER CABINETS REQUIRES 2 PADS

PEDESTRIAN SIGNS

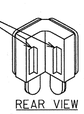


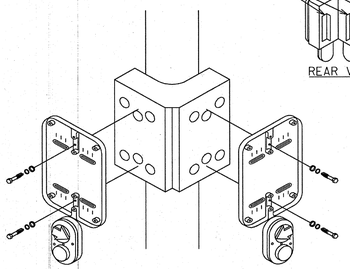
R1Ø-3B(L) 9" X 12"

R1Ø-3B(R) 9" X 12"

FIG. A

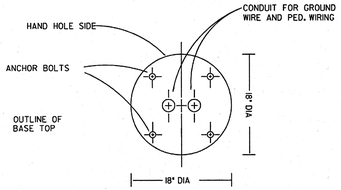
SUPPORT ANGLES & HARDWARE ARE SUPPLIED WITH PUSHBUTTON STATION



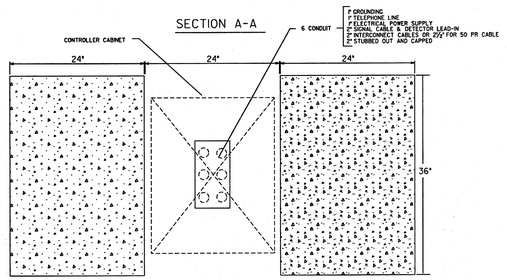


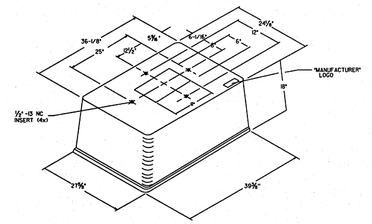
DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" PEDESTRIAN POLE

PEDESTRIAN SIGNAL HEAD ORIENTATION

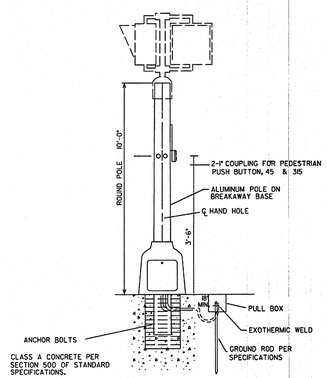


PED POLE BASE
(TOP VIEW)

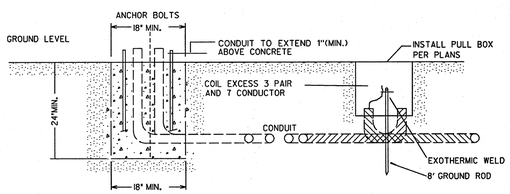




PREFABRICATED CONTROLLER BASE
ISOMETRIC DETAIL



TYPICAL DETAIL FOR PEDESTRIAN SIGNAL POLES



PED. POLE BASE

Guidelines For Usage On Metric Projects

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DATE	REVISIONS
3/31/2002	ADDED - PEDESTRIAN SIGNAL HEAD ORIENTATION DETAIL
10/31/2002	ADDED - NEW DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" PEDESTRIAN POLE.
02/15/03	ADDED - REDESIGN PEDESTRIAN SIGN
7/27/04	ADDED METRIC USAGE NOTE
03/04/05	CHANGED DESCRIPTION OF PRE-FORMED CONCRETE PAD

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PEDESTRIAN FACILITIES AND CONTROLLER CABINET

NO SCALE DECEMBER 1998

TS-03

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

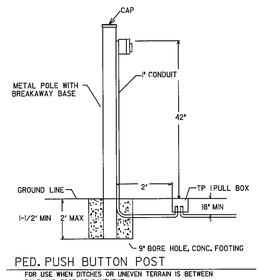
CONSTRUCTION DETAILS

DRAWING No. 40-041

3/1/2007 GPLN

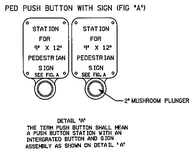
RELEASED FOR CONSTRUCTION 12/02/10

STATE GA | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS

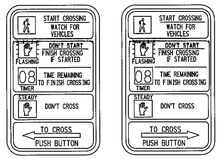


PED. PUSH BUTTON POST

FOR USE WHEN DITCHES OR UNEVEN TERRAIN IS BETWEEN POLE AND EDGE OF PAVEMENT.



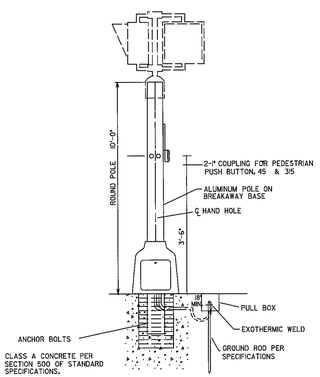
PEDESTRIAN SIGNS



R1Ø-3E(L) 9" X 12"

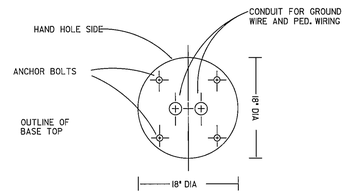
R1Ø-3E(R) 9" X 12"

FIG. A

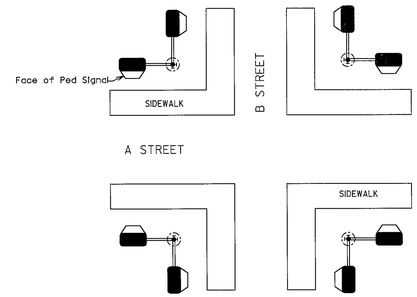


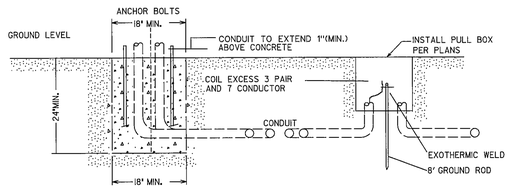
TYPICAL DETAIL FOR PEDESTRIAN SIGNAL POLES

PEDESTRIAN SIGNAL HEAD ORIENTATION

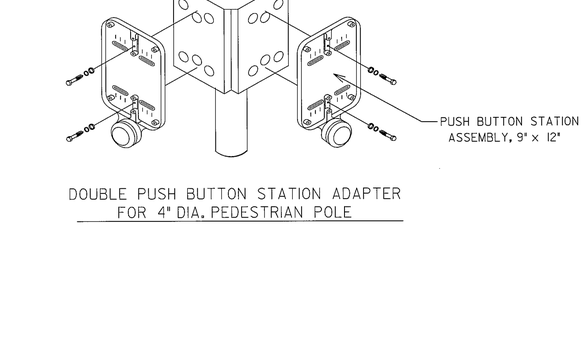


PED POLE BASE
(TOP VIEW)





PED. POLE BASE



DOUBLE PUSH BUTTON STATION ADAPTER FOR 4" DIA. PEDESTRIAN POLE

Guidelines For Usage On Metric Projects

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3/1/2007 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

-NO SCALE -

REVISION DATES		
3/31/2002	3/5/2007	
10/31/2002		
2/15/2003		
7/27/2004		
3/04/2005		
8/8/2006		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNAL PLANS
DETAILS OF PEDESTRIAN FACILITIES
DECEMBER 1998
DRAWING No. TS-03a

3/1/2007 GPLN

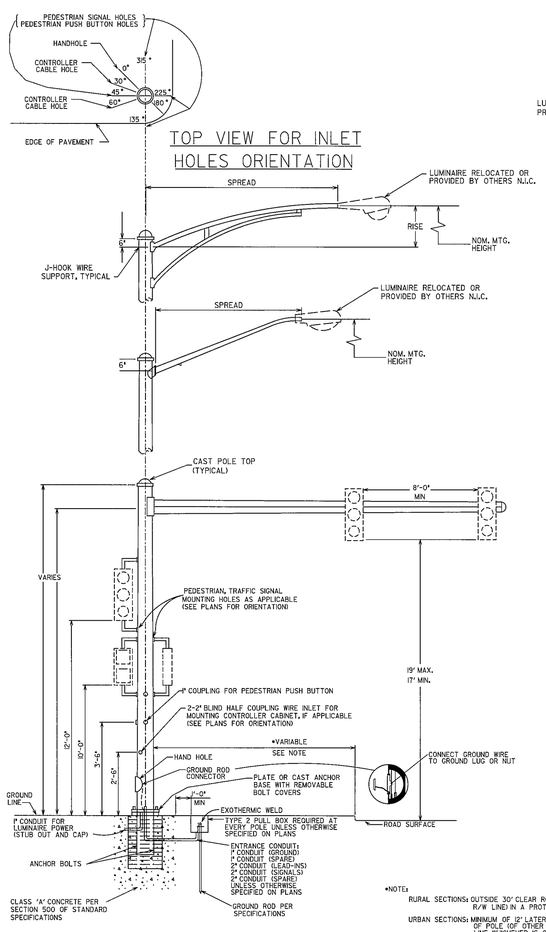
THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS
DRAWING No. 40-042

RELEASED FOR CONSTRUCTION 12/02/10

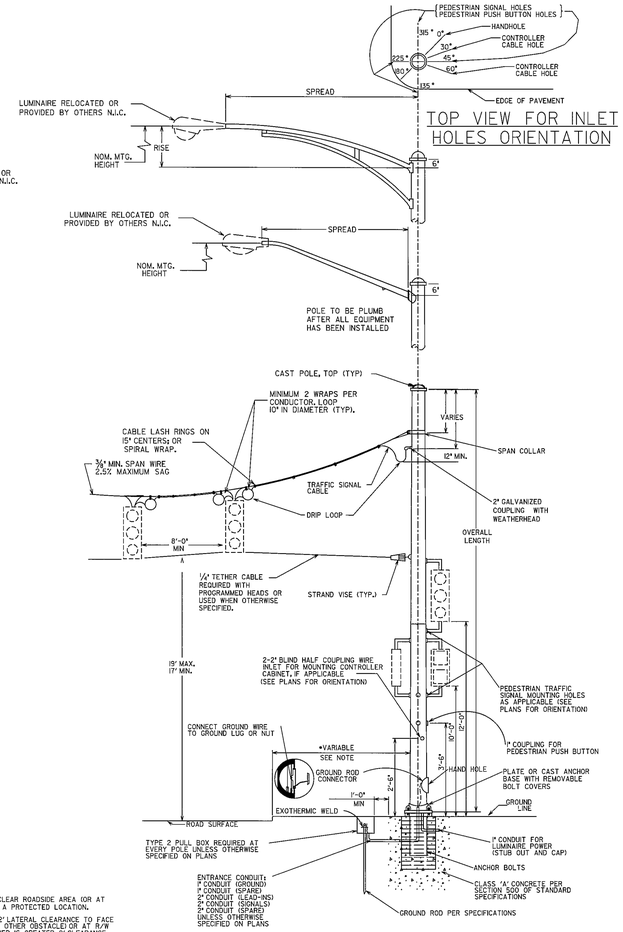
3/1/2007 GPLN



TYPICAL MAST ARM POLE DETAIL

*NOTE:
RURAL SECTIONS: OUTSIDE 30' CLEAR ROADSIDE AREA (OR AT R/W LINE) IN A PROTECTED LOCATION.

URBAN SECTIONS: MINIMUM OF 12' LATERAL CLEARANCE TO FACE OF POLE (OF OTHER OBSTACLE) OR AT R/W LINE WHICHEVER IS GREATER. 2' CLEARANCE ACCEPTABLE WITH SPEED LIMIT OF 35 MPH OR LESS.



TYPICAL STEEL STRAIN POLE DETAIL

NOTES:

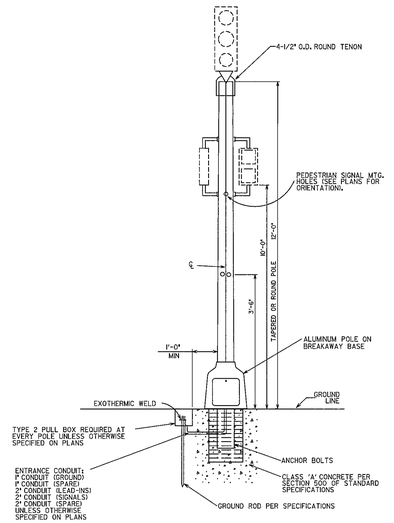
DRAWINGS AND OTHER DATA INDICATING POLE DIMENSIONS AND DESIGN TOGETHER WITH DESIGN OF BASE SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE DEPT. ENGINEER, PER SPECIFICATIONS AND DETAILS.

FOUNDATION SIZE AND REINFORCING SHALL BE DETERMINED FROM THE "STRAIN POLE FOUNDATIONS" SHEET WITH THE USE OF THE BENDING MOMENT AT YIELD PROVIDED BY POLE MANUFACTURER.

ALL HOLES IN MAST ARMS MUST BE FABRICATED BY THE MANUFACTURER. SEE SECTION 925 OF STANDARD SPECIFICATIONS REGARDING ROAD MOUNTING HARDWARE FOR SIGNAL HEADS.

WHEN POLES ARE LOCATED ON ALL CORNERS, LUMINAIRES ARE TO BE INSTALLED PERPENDICULAR TO THE FAR SIDE APPROACHING TRAFFIC.

WHEN LUMINARIES ARE ONLY BEING INSTALLED ON TWO CORNERS, THEY SHOULD BE INSTALLED PERPENDICULAR TO THE FAR SIDE APPROACHING TRAFFIC ON THE MAJOR APPROACH.



PEDESTAL POLE MOUNTED SIGNAL HEAD

Guidelines For Usage On Metric Projects

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GEORGIA
DEPARTMENT OF TRANSPORTATION

-NO SCALE-

REVISION DATES		
06/2000		
09/2001		
07/2004		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNAL PLANS
DETAILS OF METAL TRAFFIC SIGNAL SUPPORT STRUCTURES
DECEMBER 1998
DRAWING No. TS-04

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

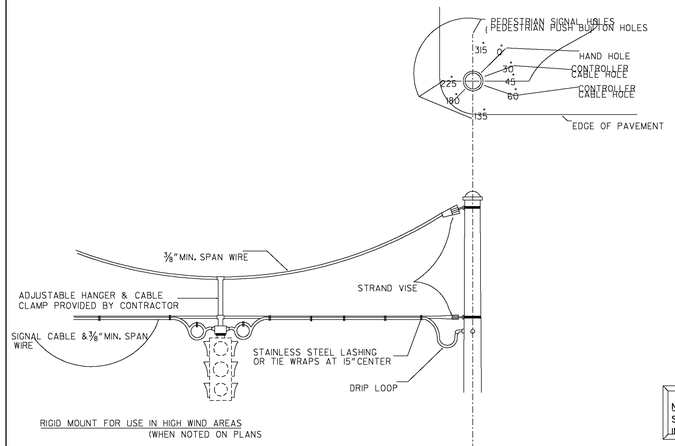
REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

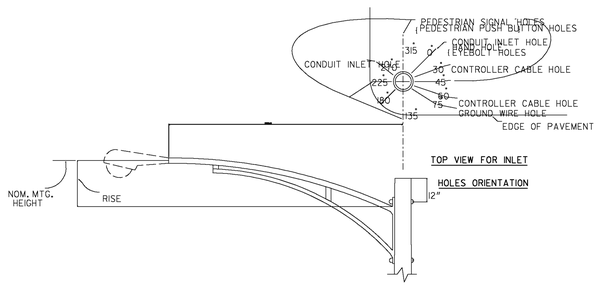
DRAWING No. 40-043

RELEASED FOR CONSTRUCTION 12/02/10

STATE		SHEET NO.	TOTAL SHEETS
GA.			



RIGID MOUNT FOR USE IN HIGH WIND AREAS (WHEN NOTED ON PLANS

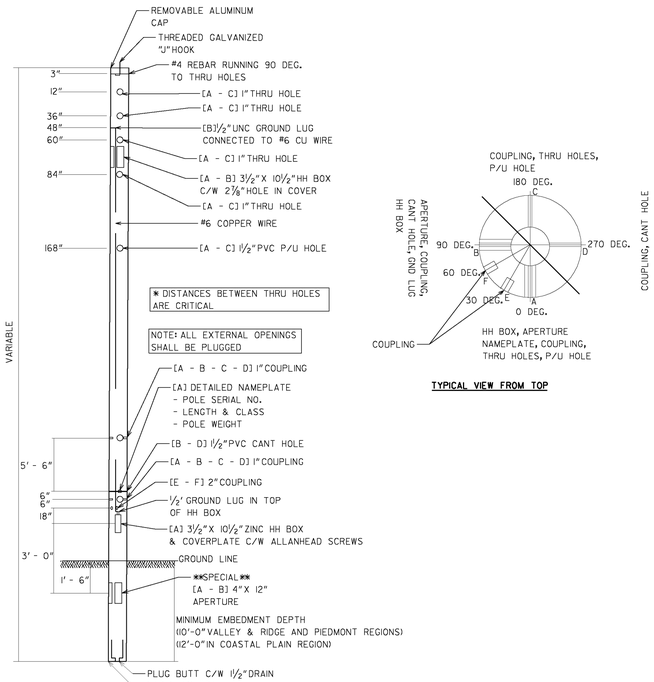


TOP VIEW FOR INLET HOLES ORIENTATION

NOTE: ALL HOLES AND COUPLING FOR PEDESTRIAN SIGNALS AND PUSH BUTTONS SHALL BE REQUIRED IN EACH POLE REGARDLESS OF PLANS SHEETS.

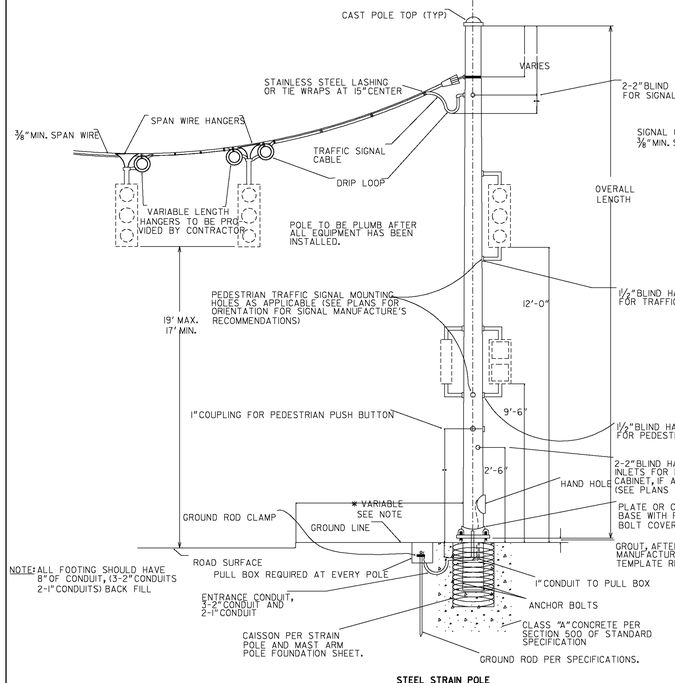
NOTE:
CONCRETE STRAIN POLE FOOTING WILL INCLUDE THE SAME FOOTING DESIGN AS A "SIMILAR" DESIGN STEEL POLE. THE STEEL REINFORCEMENT FROM STRAIN POLE AND MAST ARM POLE FOUNDATION DESIGN SHEET WILL BE INSTALLED AROUND THE CONCRETE STRAIN POLE. BACK FILL THE POLE AS DESCRIBED IN THE "CAISSON DETAIL" UP TO THE LEVEL OF THE CONDUIT ENTRANCE/ HAND HOLE DEPTH. ONCE THE CONDUIT AND WIRE CONNECTING ARE MADE INSIDE THE POLE, FINISH BACK FILLING ACCORDING TO "CAISSON DETAIL."

ALL POLES SHALL HAVE ATTACHMENT POINTS 2'(MIN.) ABOVE ACTUAL ATTACHMENT POINT FOR FUTURE USE.

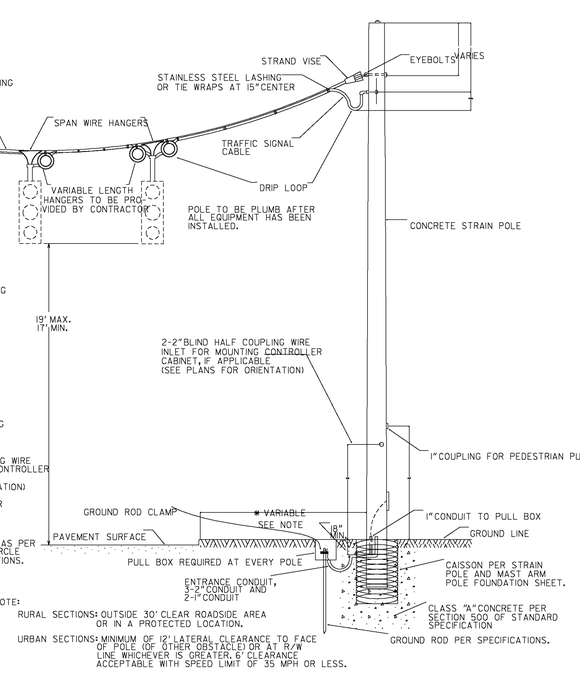


TYPICAL POLE SECTION
FOR CONCRETE STRAIN POLE

TYPICAL VIEW FROM TOP



STEEL STRAIN POLE



CONCRETE STRAIN POLE

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following: "Rounded-Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

DATE	REVISIONS
7-27-04	ADDED METRIC USAGE NOTE
9-5-08	TYPICAL POLE SECTION

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF CONCRETE TRAFFIC SIGNAL STRAIN POLES

NO SCALE DECEMBER 1998

PCBOTB

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

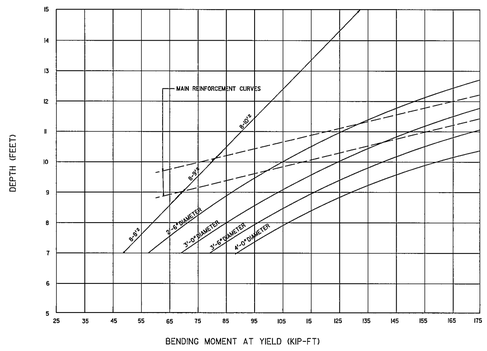
DRAWING No. 40-044

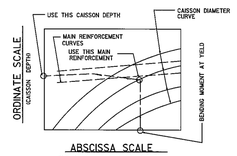
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

PIEDMONT

ϒ= 120 PCF
Φ= 25 DEGREES
C= 300 PCF



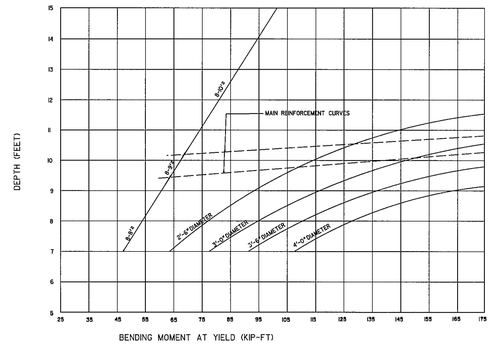


PROCEDURE TO FIND FOOTING SIZE

1. DETERMINE "BENDING MOMENT AT YIELD" FROM APPROVED SHOP DRAWINGS
2. SELECT DIAMETER OF CAISSON.
3. READ "BENDING MOMENT AT YIELD" ON ABSCISSA SCALE, PROJECT A VERTICAL LINE UPWARD UNTIL THE DESIRED "CAISSON DIAMETER CURVE" IS INTERSECTED, TURN 90 DEGREES AND PROJECT A HORIZONTAL LINE UNTIL THE ORDINATE SCALE IS INTERSECTED.
4. READ THE REQUIRED "CAISSON DEPTH" FROM THE INTERSECTION POINT ON THE ORDINATE SCALE DEPTH SHALL BE INTERPOLATED TO THE NEAREST 3 INCH INCREMENT.
5. READ THE REQUIRED "MAIN REINFORCEMENT SIZE" FROM THE INTERSECTION POINT ON THE CAISSON DIAMETER CURVE.

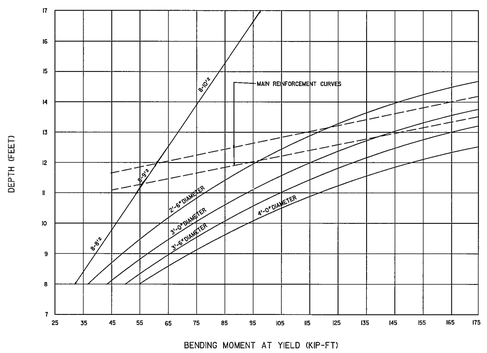
VALLEY & RIDGE

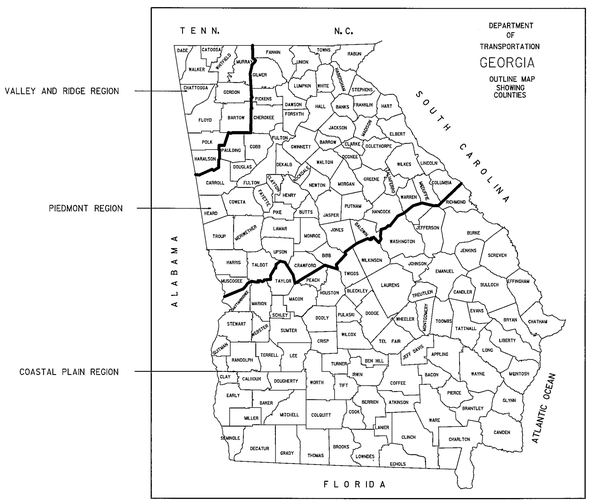
ϒ= 115 PCF
Φ= 15 DEGREES
C= 750 PSF

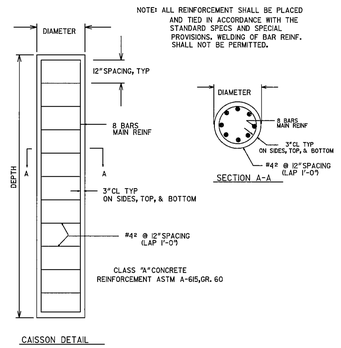


COASTAL PLAIN

ϒ= 120 PCF
Φ= 32 DEGREES
C= 0 PCF







3/1/2007 GPLN

GEORGIA
DEPARTMENT OF TRANSPORTATION

-NO SCALE-

REVISION DATES
7-09-2004

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS

SIGNAL PLANS

DETAILS OF STRAIN POLE AND MAST ARM POLE FOUNDATIONS

DECEMBER 1998

DRAWING No. TS-06

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

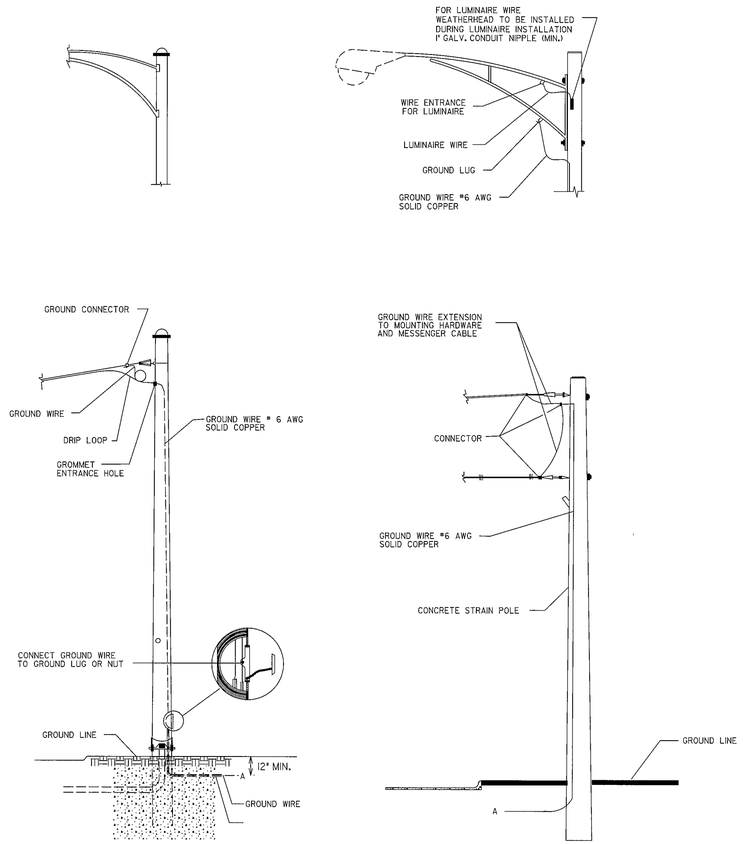
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

CONSTRUCTION DETAILS

DRAWING No. 40-045

3/1/2007 GPLN

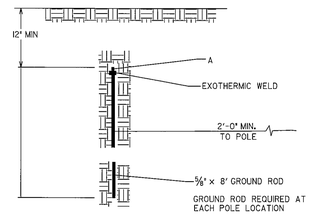
RELEASED FOR CONSTRUCTION 12/02/10



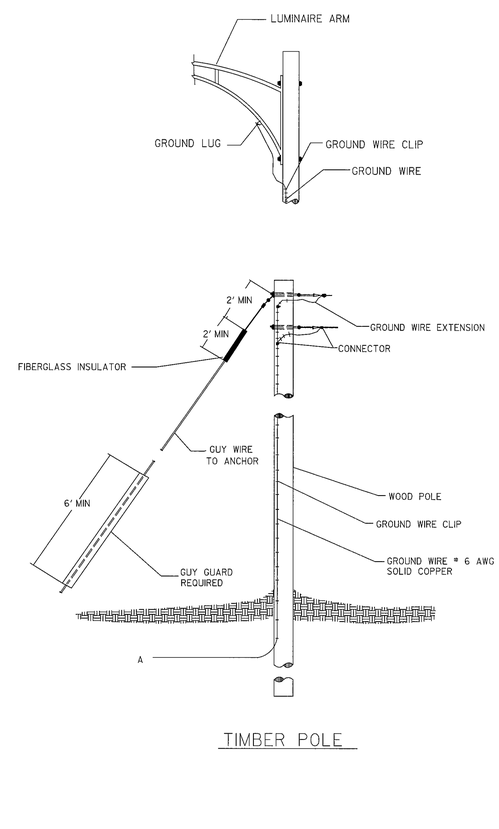
STEEL STRAIN POLE

CONCRETE STRAIN POLE

OVERHEAD SIGN GROUNDING SYSTEM SHALL CONFORM TO SECTION 647



GROUNDING DETAIL



TIMBER POLE

Guidelines For Usage On Metric Projects

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		GEORGIA DEPARTMENT OF TRANSPORTATION	-NO SCALE-	REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
				7/27/2004	OFFICE: TRAFFIC OPERATIONS
					SIGNAL PLANS
					GROUNDING DETAILS FOR OVERHEAD SPAN WIRE SIGNS AND TRAFFIC SIGNALS — TS-07 — DRAWING No. — DECEMBER 1998

3/1/2007 GPLN

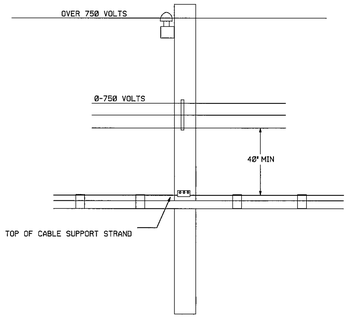
		THE LPA GROUP TRANSPORTATION CONSULTANTS 3595 ENGINEERING DRIVE NORCROSS, GEORGIA 30092 (770) 263-9118		REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
					OFFICE: INNOVATIVE PROGRAM DELIVERY
					CONSTRUCTION DETAILS
					DRAWING No. 40-046

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

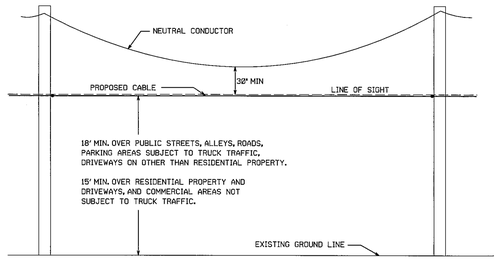
TYPICAL DETAIL "A"

TYPICAL POWER SEPARATION AT POLE



TYPICAL DETAIL "B"

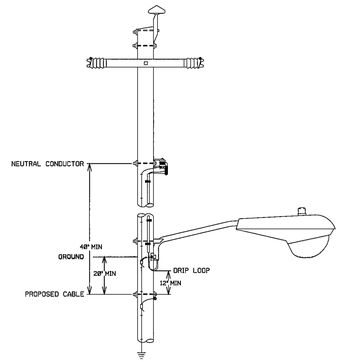
SEPARATION REQUIREMENTS FOR MID-SPAN AND AT CROSSINGS



THE VERTICAL SEPARATION FROM NEUTRAL CONDUCTORS SHALL BE INCREASED SO THAT THE LOWEST POINT OF THE NEUTRAL CONDUCTOR (IN THE SPAN OR AT THE CROSSING) WILL BE AT LEAST 30 INCHES ABOVE THE COMMUNICATION CABLE ATTACHMENT LEVEL (LINE OF SIGHT) AS ILLUSTRATED ABOVE.

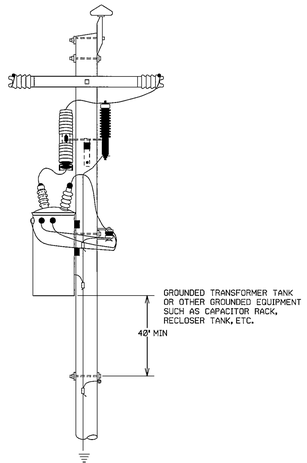
TYPICAL DETAIL "C"

STREET LIGHT BRACKET SEPARATION NOTE: SEE TABLE BELOW



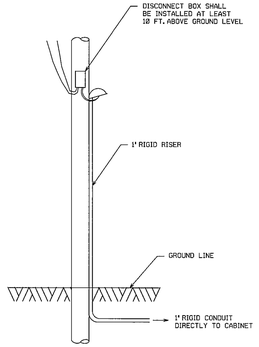
TYPICAL DETAIL "D"

TYPICAL TRANSFORMER AND POWER RISER SEPARATION WITHOUT GUARD ARM



TYPICAL DETAIL "E"

TYPICAL DISCONNECT BOX INSTALLATION



VERTICAL CLEARANCES AT THE POLE FOR SPAN WIRES AND BRACKETS FOR STREET LIGHTS (RULE 238C)

TYPE OF CLEARANCE	CLEARANCE (IN.)			
	IF EFFECTIVELY GROUNDED	IF NOT EFFECTIVELY GROUNDED		
		FOR LUMINAIRES		FOR TROLLEY CONDUCTORS
		UP TO 150V	OVER 150V	
ABOVE COMMUNICATION CROSSARMS	20 (A)	20 (A)	20 (A)	20 (A)
BELOW COMMUNICATION CROSSARMS	24	24	40	24
ABOVE COMMUNICATION CABLES	4	20 (A)	20 (A)	12
BELOW COMMUNICATION CABLES	4	20	40	12
FROM COMMUNICATION TERMINAL BOXES	4	20 (A)	20 (A)	12 (B)
FROM COMMUNICATION BRACKETS BRIDLE WIRE RINGS, AND DRIVE HOOKS	4	16 (A)	16 (A)	4

NOTES A. MAY BE REDUCED TO 12 IN. FOR WIRES OR PARTS OF BRACKETS 40 IN. OR MORE FROM SURFACE OF POLE

B. IF OBTAINABLE IF NOT, MAXIMUM OBTAINABLE

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3/1/2007 GPLN

GEORGIA DEPARTMENT OF TRANSPORTATION

-NO SCALE-

REVISION DATES
06/2000

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TRAFFIC OPERATIONS
SIGNAL PLANS
UTILITY CLEARANCE DETAILS
DECEMBER 1998
DRAWING No. TS-08

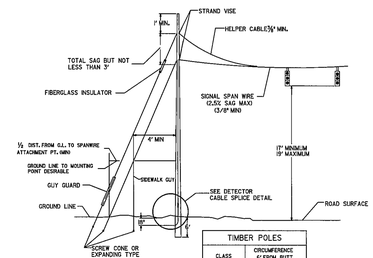
THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS
DRAWING No. 40-047

3/1/2007 GPLN

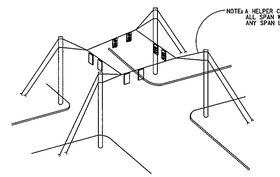
RELEASED FOR CONSTRUCTION 12/02/10



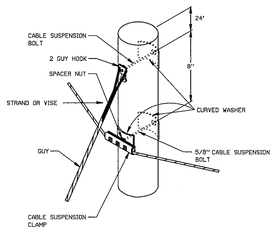
TIMBER POLES	
CLASS	CIRCUMFERENCE 6' FROM BUTT
I	41.0"
II	38.5"

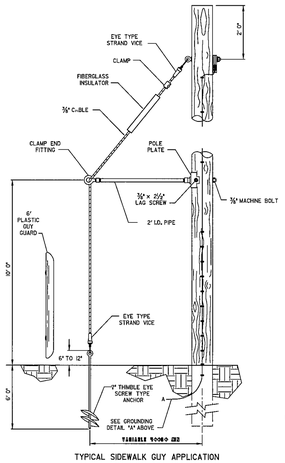
TYP. TIMBER SIGNAL POLE DETAIL

SAG = .025 SPAN LENGTH
SPAN LENGTH = LONGEST DISTANCE BETWEEN ANY TWO SUPPORT POLES IN INSTALLATION.

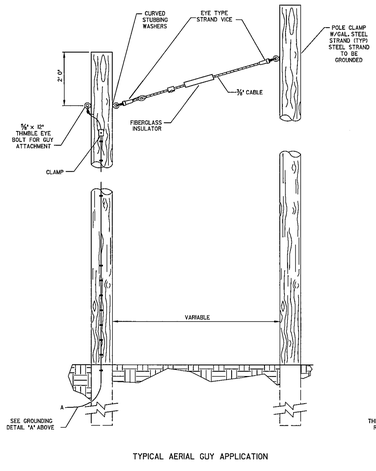


TYPICAL DETAIL "D"
SUSPENSION STRAND - PULL TOWARD POLE - LESS THAN 5 FEET



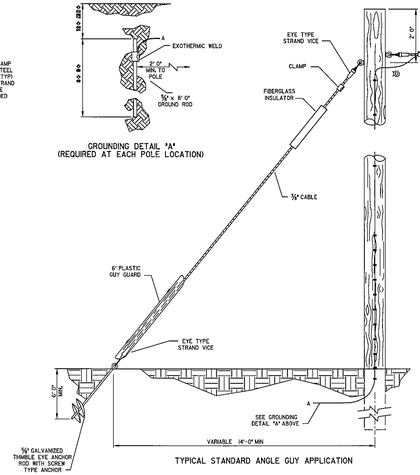


TYPICAL SIDEWALK GUY APPLICATION



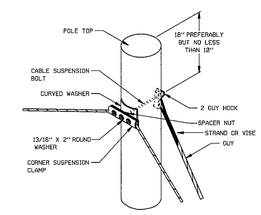
TYPICAL AERIAL GUY APPLICATION

GROUNDING DETAIL "A"
(REQUIRED AT EACH POLE LOCATION)



TYPICAL STANDARD ANGLE GUY APPLICATION

TYPICAL DETAIL "E"
SUSPENSION STRAND - PULL AWAY FROM POLE - 5 FEET OR MORE



Guidelines For Usage On Metric Projects

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				REVISION DATES			
		GEORGIA DEPARTMENT OF TRANSPORTATION	-NO SCALE-	7/27/2004			STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
							OFFICE: TRAFFIC OPERATIONS
							SIGNAL PLANS
							TS-09
							STANDARD GUYING DETAILS — DRAWING No.
							DECEMBER 1998

3/1/2007 GPLN

			REVISION DATES			
		THE LPA GROUP TRANSPORTATION CONSULTANTS 3595 ENGINEERING DRIVE NORCROSS, GEORGIA 30092 (770) 263-9118				STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
						OFFICE: INNOVATIVE PROGRAM DELIVERY
						CONSTRUCTION DETAILS
						DRAWING No. 40-048

3/1/2007 GPLN

2/15/2008 12:21:29 PM \\GDOT-DSN1\GOPLOT\DCF\go_fiff_outputs.dgn "gowens M:\GARY\soundwall masters\N-1A.prt"

RELEASED FOR CONSTRUCTION 12/02/10

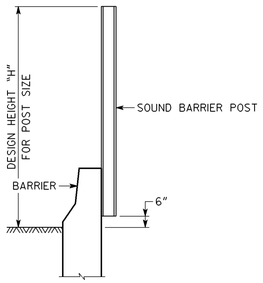
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

FOUNDATION DEPTH AND DIAMETER ⚠

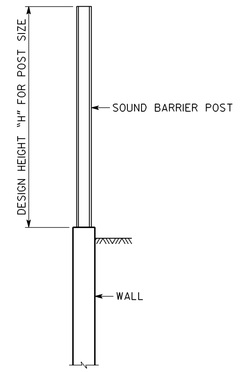
DESIGN HEIGHT "H"	PIEDMONT (POST SPACING)									COASTAL PLAIN (POST SPACING)								
	10'-0"			15'-0"			20'-0"			10'-0"			15'-0"			20'-0"		
	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER
6'-0"	4'-3"	2'-0"	2'-6"	5'-0"	2'-0"	2'-6"	6'-0"	2'-0"	2'-6"	6'-6"	2'-0"	3'-0"	7'-9"	2'-0"	3'-0"	8'-9"	2'-0"	3'-0"
8'-0"	5'-3"	2'-0"	2'-6"	6'-3"	2'-0"	2'-6"	7'-3"	2'-0"	3'-0"	7'-9"	2'-0"	3'-0"	9'-0"	2'-0"	3'-0"	10'-3"	2'-0"	3'-0"
10'-0"	6'-3"	2'-0"	2'-6"	7'-6"	2'-0"	3'-0"	8'-6"	2'-0"	3'-0"	8'-9"	2'-0"	3'-0"	10'-3"	2'-0"	3'-0"	11'-6"	2'-0"	3'-0"
12'-0"	7'-3"	2'-0"	3'-0"	8'-6"	2'-0"	3'-0"	8'-9"	2'-6"	3'-6"	9'-9"	2'-0"	3'-0"	11'-6""	2'-0"	3'-0"	11'-9"	2'-6"	3'-6"
14'-0"	8'-3"	2'-0"	3'-0"	8'-6"	2'-6"	3'-6"	9'-9"	2'-6"	3'-6"	10'-6"	2'-0"	3'-0"	11'-9"	2'-6"	3'-6"	12'-9"	2'-6"	3'-6"
16'-0"	7'-9"	2'-6"	3'-6"	9'-6"	2'-6"	3'-6"	10'-6"	2'-6"	3'-6"	10'-6"	2'-6"	3'-6"	12'-9"	2'-6"	3'-6"	13'-9"	2'-6"	3'-6"
18'-0"	8'-6"	2'-6"	3'-6"	10'-3"	2'-6"	3'-6"	11'-6"	2'-6"	3'-6"	11'-3"	2'-6"	3'-6"	13'-6"	2'-6"	3'-6"	14'-9"	2'-6"	3'-6"
20'-0"	9'-3"	2'-6"	3'-6"	11'-3"	2'-6"	3'-6"	12'-6"	2'-6"	3'-6"	12'-0"	2'-6"	3'-6"	14'-6"	2'-6"	3'-6"	15'-9"	2'-6"	3'-6"
22'-0"	10'-0"	2'-6"	3'-6"	12'-0"	2'-6"	3'-6"	13'-6"	2'-6"	4'-0"	12'-9"	2'-6"	3'-6"	15'-0"	2'-6"	3'-6"	15'-6"	3'-0"	4'-0"
24'-0"	10'-6"	2'-6"	3'-6"	12'-9"	2'-6"	4'-0"	14'-9"	2'-6"	4'-0"	13'-6"	2'-6"	3'-6"	15'-9"	2'-6"	4'-0"	16'-3"	3'-0"	4'-0"
26'-0"	11'-3"	2'-6"	3'-6"	13'-6"	2'-6"	4'-0"	15'-9"	2'-6"	4'-0"	14'-0"	2'-6"	3'-6"	16'-6"	2'-6"	4'-0"	16'-3"	3'-6"	4'-0"
28'-0"	12'-0"	2'-6"	3'-6"	14'-3"	2'-6"	4'-0"	15'-3"	3'-0"	4'-6"	14'-6"	2'-6"	3'-6"	16'-0"	3'-0"	4'-0"	16'-0"	4'-0"	4'-6"
30'-0"	12'-6"	2'-6"	4'-0"	15'-3"	2'-6"	4'-0"	16'-0"	3'-0"	4'-6"	15'-0"	2'-6"	4'-0"	15'-9"	3'-6"	4'-0"	16'-0"	4'-6"	4'-6"

POST SUMMARY

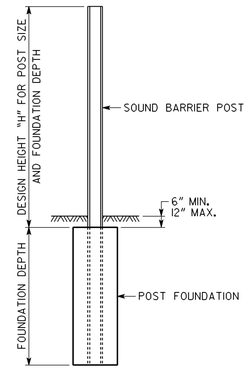
DESIGN HEIGHT "H"	TYPE B PANELS					TYPE C, F AND G PANELS				
	GROUND MOUNTED (POST SPACING)			WALL MOUNTED	BARRIER MOUNTED	GROUND MOUNTED (POST SPACING)			WALL MOUNTED	BARRIER MOUNTED
	10'-0"	15'-0"	20'-0"	10'-0"	10'-0"	10'-0"	15'-0"	20'-0"	10'-0"	10'-0"
6'-0"	W8XI0	W8XI0	WI0XI2	W8XI0	W8X24	WI0X22	WI0X22	WI0X22	WI0X22	W8X24
8'-0"	W8XI0	WI0XI2	WI2XI4	W8XI0	W8X24	WI0X22	WI0X22	WI0X22	WI0X22	W8X24
10'-0"	WI0XI2	WI2XI6	WI2XI9	WI0XI2	W8X24	WI0X22	WI0X22	WI0X22	WI0X22	W8X24
12'-0"	WI2XI4	WI2XI9	WI4X22	WI0XI5	W8X24	WI0X22	WI0X22	WI2X26	WI0X22	W8X24
14'-0"	WI2XI9	WI4X22	WI4X30	WI0XI9	W8X24	WI0X22	WI2X26	WI4X30	WI0X22	W8X24
16'-0"	WI4X22	WI4X30	WI4X34	WI0X22	W8X24	WI2X26	WI4X30	WI4X34	WI0X22	W8X24
18'-0"	WI4X26	WI4X34	WI4X43	WI0X26	W8X3I	WI2X26	WI4X34	WI4X43	WI0X26	W8X3I
20'-0"	WI4X30	WI4X43	WI4X53	WI0X33	WI0X33	WI4X30	WI4X43	WI4X53	WI0X33	WI0X33
22'-0"	WI4X34	WI4X48	WI4X6I	WI0X39	WI0X39	WI4X34	WI4X48	WI4X6I	WI0X39	WI0X39
24'-0"	WI4X38	WI4X6I	WI4X74	WI0X45	WI2X40	WI4X38	WI4X6I	WI4X74	WI0X45	WI2X40
26'-0"	WI4X43	WI4X6I	WI4X82		WI2X45	WI4X43	WI4X6I	WI4X82		WI2X45
28'-0"	WI4X53	WI4X74	WI4X90			WI4X53	WI4X74	WI4X90		
30'-0"	WI4X6I	WI4X82	WI4XI09			WI4X6I	WI4X82	WI4XI09		



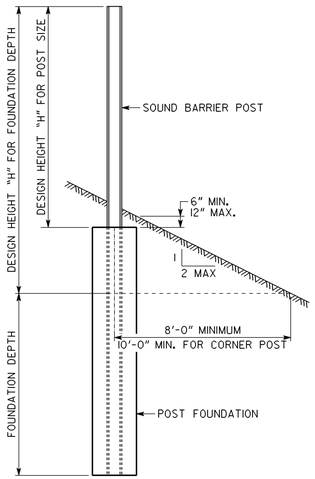
BARRIER MOUNTED SOUND BARRIER



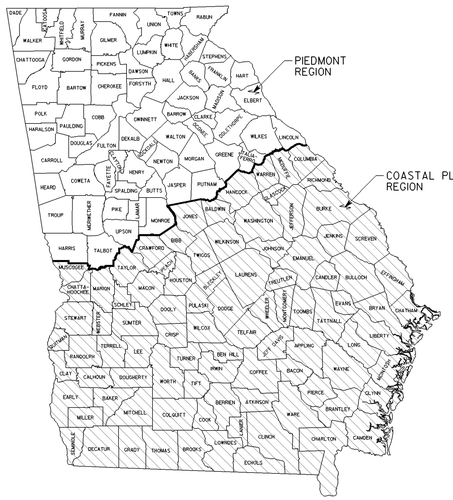
WALL MOUNTED SOUND BARRIER

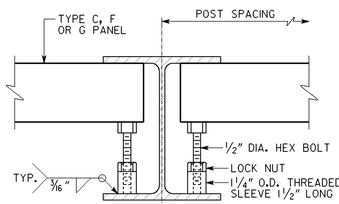


GROUND MOUNTED SOUND BARRIER

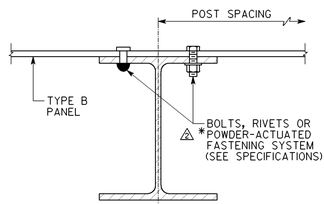


GROUND MOUNTED SOUND BARRIER





NOTE: ½" DIA. BOLTS SHALL BE LONG ENOUGH TO RETAIN PANEL.



⚠ * - FASTENERS SHALL BE STAINLESS STEEL OR SHALL BE GALVANIZED AS PER ASTM A-153 OR ZINC COATED AS PER ASTM B-695 CLASS 50.

PANEL ATTACHMENT DETAILS
NO SCALE

NOTES: ALL NUTS, BOLTS, WASHERS, PLATES, INSERTS, ANGLES AND HARDWARE REQUIRED FOR CONSTRUCTING SOUND BARRIERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 OR A-153. SELF-TAPPING SCREWS SHALL BE IN ACCORDANCE WITH SECTION 624 OF THE DOT SPECIFICATIONS. THREADS FOR NUTS, INSERTS AND THREADED SLEEVES SHALL BE UNC CLASS 2B. THREADS FOR BOLTS AND THREADED RODS SHALL BE UNC CLASS 2A. WASHERS SHALL BE COMPATIBLE WITH NUTS AND BOLTS.

⚠ POSTS FOR BARRIER MOUNTED AND WALL MOUNTED SOUND BARRIER SHALL BE AT 10'-0" SPACING.

POST SHALL BE ASTM A-36, GALVANIZED AFTER ALL FABRICATION IS COMPLETE. ALL POSTS SHALL BE PLUMB.

BARRIER MOUNTED SOUND BARRIERS ACROSS BRIDGES SHALL BE TYPE B PANELS AND SHALL BE 12'-0" MAXIMUM.

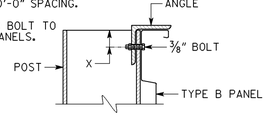
CONCRETE: POST FOUNDATION ----- CLASS A, f'_c = 3000 PSI

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

NOTE: L 4 X 4 X 3/8 FOR 10'-0" SPACING AND L 6 X 6 X ½ FOR 15'-0" AND 20'-0" SPACING.

PAINT ANGLE AND BOLT TO MATCH TYPE B PANELS.

X = 1⅝" FOR L 4 X 4 X 3/8 AND 2½" FOR L 6 X 6 X ½.



ANGLE ATTACHMENT DETAILS
NO SCALE

BY	DATE	REVISION
SWW	1-08-08	REVISED TABLE
DLC	9-6-05	REVISED NOTE
DLC	2-24-05	REVISED NOTE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

SOUND BARRIER
FOUNDATION AND POST DETAILS

SCALE 3/8"=1'-0"(UNLESS NOTED) MAY 2004

DESIGNED JPT/DLC
DRAWN DLC
CHECKED SWW
DESIGN GROUP SWW

REVIEWED JPT/MCD
APPROVED PVL

NUMBER N-1A
PAGE 1OF 2

2/15/2008 12:21:29 PM "\\GDOT-DSN1\GOPLOT\DCF\go_fiff_outputs.dgn" "gowens M:\GARY\soundwall masters\N-1A.prt"

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-049

8/20/2008 8:21:37 AM \\GDOT-DSN\GDOPLOT\QCF\qc_ffff_output.qcf gowens T:\OARF\soundwalls\N-1B.prt

RELEASED FOR CONSTRUCTION 12/02/10

⚠ ⚠ DESIGN HEIGHT "H"	DRILLED IN ANCHOR **
8′	HILTI HVA ADHESIVE ANCHOR, 1/2″ Ø BOLT
10′	HILTI HVA ADHESIVE ANCHOR, 3/4″ Ø BOLT
12′	HILTI HVA ADHESIVE ANCHOR, 1″ Ø BOLT
14′	HILTI HVA ADHESIVE ANCHOR, 1 1/4″ Ø BOLT

POST SIZE	GAGE FOR BOLTS
W8X24	3 1/2″
W8X31	5 1/2″
W10X33	5 1/2″
W10X39	5 1/2″
W12X40	5 1/2″
W12X45	5 1/2″

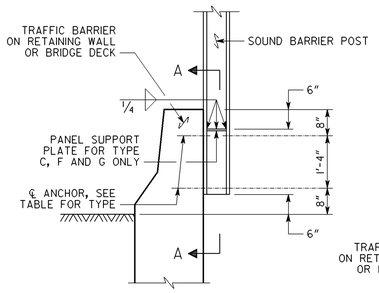
⚠ CAST-IN-PLACE DESIGN HEIGHT "H" ⚠	ANCHOR DIAMETER	BOLT HOLE SIZE
6′	3/8″	9/16″
8′	1/2″	11/16″
10′	5/8″	13/16″
12′	3/4″	15/16″
14′	7/8″	1 1/16″
16′	1″	1 3/16″
18′	1 1/8″	1 5/16″
18′-26′	1 1/2″ W/PLATE	1 11/16″

NOTES: SOUND BARRIER SHALL NOT BE MOUNTED ON SIDE BARRIERS AS SHOWN IN GA STD 4948.

SOUND BARRIER SHALL ONLY BE ATTACHED TO BARRIERS OR RETAINING WALLS THAT HAVE BEEN SPECIFICALLY DESIGNED FOR THE LOADING FROM SOUND BARRIER.

** AT CONTRACTOR'S OPTION, OTHER CHEMICAL ADHESIVE ANCHORS ON THE GA DOT QUALIFIED PRODUCTS LIST MAY BE USED TO ATTACH SOUND BARRIER POSTS TO THE BACK OF TRAFFIC BARRIER.

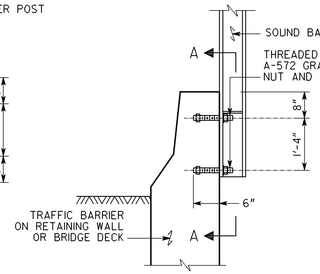
⚠ CONTRACTOR SHALL SUBMIT MANUFACTURER'S BROCHURE AND LOAD CAPACITY INFORMATION TO THE ENGINEER FOR APPROVAL BEFORE ORDERING ANCHORS. EPOXY RESIN ADHESIVE ANCHORS SHALL NOT BE USED FOR GROUND MOUNTED OR WALL MOUNTED SOUND BARRIERS.



DETAIL FOR SOUND BARRIER MOUNTED ON TRAFFIC BARRIER

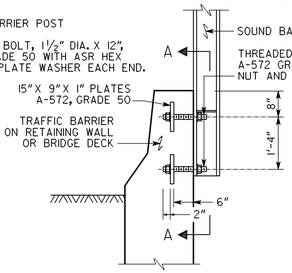
DRILLED IN ANCHOR

NOTE: MAXIMUM HEIGHT ON BRIDGE = 12′-0″
MAXIMUM HEIGHT ON M.S.E. WALL = 18′-0″



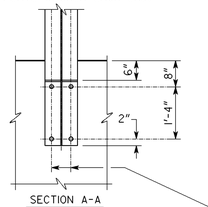
ANCHOR DETAIL FOR SOUND BARRIER BETWEEN 6′-0″ AND 18′-0″

CAST-IN-PLACE



ANCHOR DETAIL FOR SOUND BARRIER BETWEEN 18′-0″ AND 26′-0″

CAST-IN-PLACE



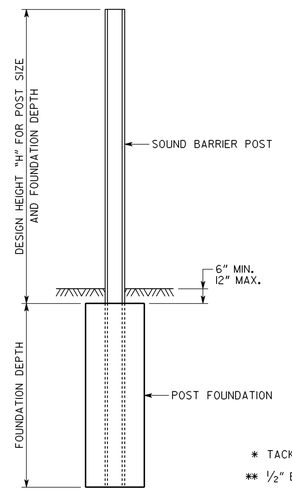
SECTION A-A

℄ BOLT HOLES (SEE CHART FOR GAGE, ANCHOR DIAMETER AND BOLT HOLE SIZE).

⚠ DETAILS FOR BARRIER MOUNTED SOUND BARRIER

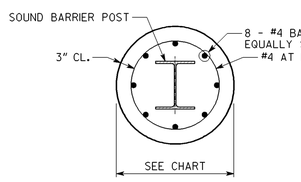
⚠ POST SIZE	PANEL SUPPORT PLATE SIZE *
W8X24,31	4″ X 7 1/8″ X 1/2″
W10X22	4″ X 9 3/8″ X 1/2″
W10X26	4″ X 9 1/2″ X 1/2″
W10X33,39	4″ X 8 7/8″ X 1/2″
W12X26	4″ X 11 1/2″ X 1/2″
W12X40	4″ X 11″ X 1/2″
W12X45	4″ X 10 7/8″ X 1/2″
W14X30,34,38	4″ X 13 1/8″ X 1/2″
W14X43	4″ X 12 5/8″ X 1/2″
W14X48,53	4″ X 12 1/2″ X 1/2″
W14X61	4 7/8″ X 12 5/8″ X 1/2″
W14X74,82	4 7/8″ X 12 1/2″ X 1/2″
W14X90,109	7″ X 12 5/8″ X 1/2″

* REQUIRED FOR BARRIER MOUNTED SOUND BARRIER ONLY. OPTIONAL FOR GROUND MOUNTED SOUND BARRIER.

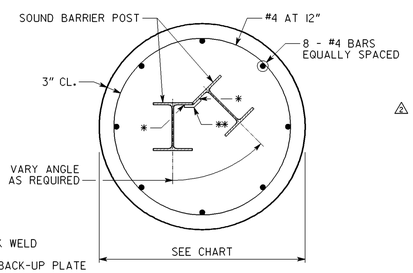


GROUND MOUNTED SOUND BARRIER

SCALE: 3/8″ = 1′-0″

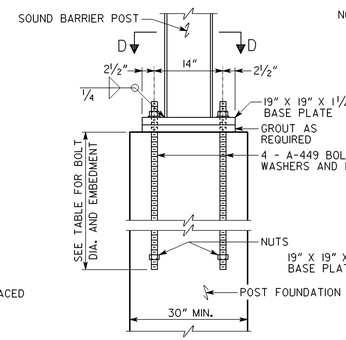


SECTION B - B



CORNER POST BASE DETAIL

DETAILS FOR GROUND MOUNTED SOUND BARRIER

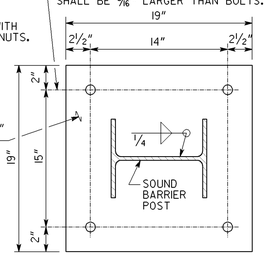


⚠ DETAIL FOR ALTERNATE POST TO FOUNDATION CONNECTION DETAIL

10, 15 AND 20 FOOT POST SPACING

NOTE: POST AND BASE PLATE SHALL BE GALVANIZED AFTER ALL FABRICATION IS COMPLETE.

THIS DETAIL DOES NOT APPLY FOR SOUND BARRIERS OVER 24′-0″ HIGH.

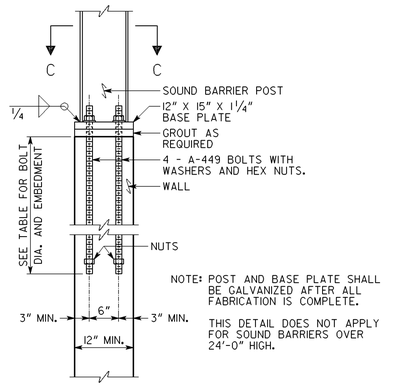


⚠ SECTION D-D

SCALE: 2″ = 1′-0″

⚠ POST BOLTED TO DRILLED SHAFT HEIGHT	BOLT Ø	EMBED
6′ TO 12′	3/4″	2′-0″
12′ TO 16′	1″	3′-0″
16′ TO 20′	1 1/4″	4′-6′
20′ TO 24′	1 1/2″	6′-0″

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

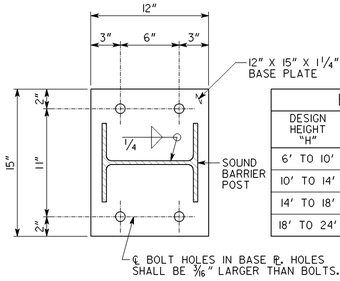


NOTE: POST AND BASE PLATE SHALL BE GALVANIZED AFTER ALL FABRICATION IS COMPLETE.

THIS DETAIL DOES NOT APPLY FOR SOUND BARRIERS OVER 24′-0″ HIGH.

DETAILS FOR WALL MOUNTED SOUND BARRIER

10 FOOT POST SPACING



BOLT SIZE DESIGN HEIGHT "H"	BOLT DIAMETER	EMBEDMENT
6′ TO 10′	3/4″	2′-0″
10′ TO 14′	1″	2′-6″
14′ TO 18′	1 1/4″	3′-6″
18′ TO 24′	1 1/2″	4′-6″

SECTION C - C

SCALE: 2″ = 1′-0″

NOTE: SOUND BARRIERS SHALL ONLY BE ATTACHED TO BARRIERS OR RETAINING WALLS WHICH HAVE BEEN SPECIFICALLY DESIGNED FOR THE LOADING FROM THE SOUND BARRIER.

DETAILS FOR WALL MOUNTED SOUND BARRIER

10 FOOT POST SPACING

BY	REVISION	DATE
SWW	REV. PANEL SUPPORT PLATE	8-17-08
SWW	REV'D TABLE AND DETAILS	1-08-08
DLC	REVISED TABLE AND NOTE	2-24-05

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
SOUND BARRIER
FOUNDATION AND POST DETAILS

SCALE 3/8″=1′-0″(UNLESS NOTED) MAY 2004

DESIGNED JPT/DLC
DRAWN DLC
CHECKED SWW
DESIGN GROUP SWW
REVIEWED JPT/MCD
APPROVED PVL

NUMBER N-1B
PAGE 2 OF 2

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

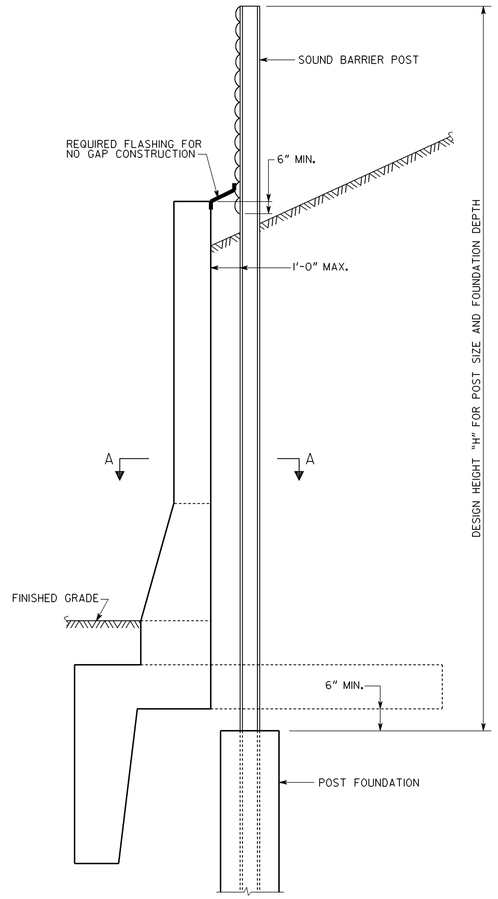
DRAWING No. 40-050

3/1/2007 GPLN

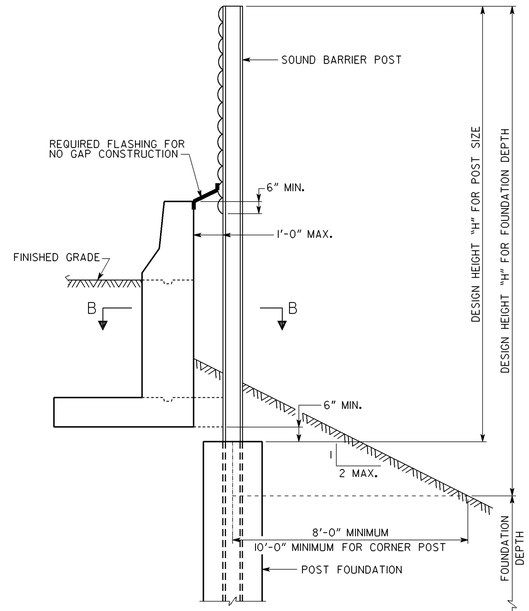
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	493	668

RELEASED FOR CONSTRUCTION 12/02/10

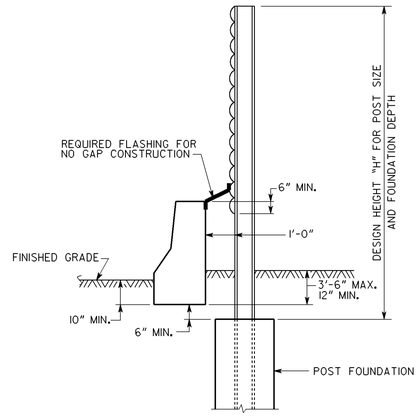
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



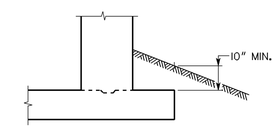
DETAIL FOR GROUND MOUNTED SOUND BARRIER
(FOR USE WITH TYPE 6, 6A, 6SA, 6B, 6SB, 6C OR 6SC CONCRETE SIDE BARRIER)



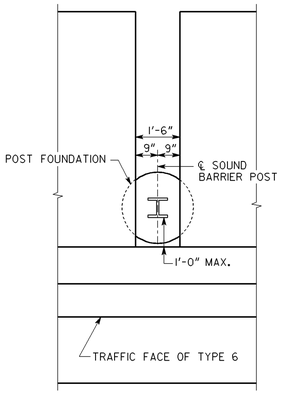
DETAIL FOR GROUND MOUNTED SOUND BARRIER
(FOR USE WITH TYPE 2, 2A, 2B OR 2C CONCRETE SIDE BARRIER)



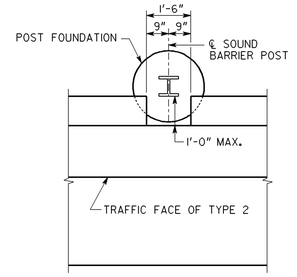
DETAIL FOR GROUND MOUNTED SOUND BARRIER
(FOR USE WITH TYPE 7R CONCRETE SIDE BARRIER)



FOOTING DETAIL FOR SIDE BARRIER
(FOR USE WITH TYPE 2, 2A, 2B OR 2C CONCRETE SIDE BARRIER)



SECTION A-A



SECTION B-B

NOTE: TYPE 2 AND TYPE 7R BARRIER SHOWN. DETAILS ALSO APPLY TO BARRIER TYPE 2S AND 7RS.

NOTE:
CONSTRUCTION OR EXPANSION JOINTS IN THE TYPE 2 AND TYPE 6 BARRIER SHALL BE LOCATED A MINIMUM OF 3'-0" FROM A BLOCK-OUT.

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION	CONSTRUCTION DETAIL SOUND BARRIER DETAILS AT CONCRETE SIDE BARRIERS	
	SCALE 1/2"=1'-0"(UNLESS NOTED)	MAY, 2004
BY	DESIGNED JPT/DLC DRAWN WMC CHECKED SWW DESIGN GROUP SWW	REVIEWED JPT/MCD APPROVED PVL
		NUMBER N-2

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

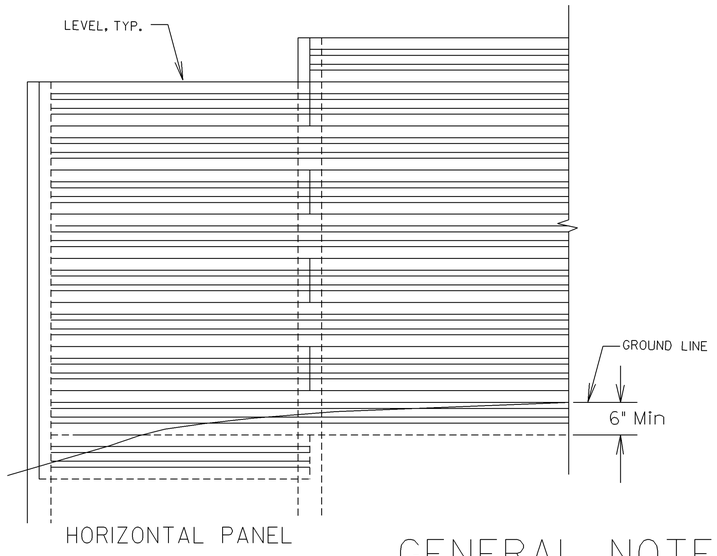
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No.
40-051

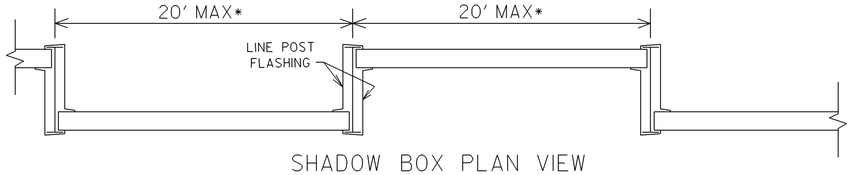
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

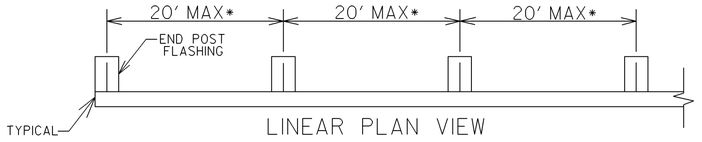


HORIZONTAL PANEL

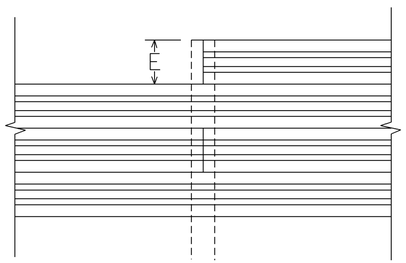


SHADOW BOX PLAN VIEW

* SEE FOUNDATION AND POST DETAILS FOR 10', 15' AND 20' POST SPACINGS



LINEAR PLAN VIEW



CHANGE IN HEIGHT
(TYPICAL)
E MIN = 1 PANEL WIDTH

GENERAL NOTES:

1. ALL POSTS SHALL BE ENCLOSED WITH FLASHING.
2. THE TOP CAP OF THE WALL SHALL ALSO COVER THE AREA ENCLOSED BY THE POST FLASHING.
3. THE SOUND BARRIER PANELS SHALL BE ABLE TO RESIST A WIND LOAD OF 80 MPH (28 PSF). ADDITIONAL GIRTS, FASTENERS, ETC. SHALL BE SHOWN WHERE NECESSARY IN THE SHOP DRAWINGS, AND SHALL BE INCLUDED IN THE BID PRICE, PER SQUARE FOOT OF SOUND BARRIER.
4. THE WALL PANELS SHALL BE PLACED A MINIMUM OF 6" INTO THE BERM / EXISTING GROUND IF NO SIDE BARRIER PROTECTION DEVICE IS UTILIZED. SEE TYPICAL SECTION.
5. SEE SPECIFICATIONS SECTION 624 FOR ADDITIONAL CONDITIONS.
6. THE PANELS, FLASHING, AND ALL EXPOSED SURFACES SHALL HAVE THE FOLLOWING COLOR: 16360 (T-ROCK GREEN) OR EQUIVALENT.
7. SOUND BARRIER PANELS SHALL BE PLACED ON THE ROADWAY SIDE OF THE SUPPORT POSTS WHEN MOUNTED ON BRIDGES.
8. WHERE PANELS BUTT UP AGAINST OTHER PANELS, FLASHING SHALL BE INSTALLED TO ENSURE "AIR TIGHT", NO GAP CONSTRUCTION.
9. WHEN PANELS ARE INSTALLED BEHIND SIDE BARRIER, AND THE PANEL IS NOT BURIED IN THE GROUND, FLASHING IS REQUIRED TO PROVIDE NO GAP CONSTRUCTION. THE WALL PANELS SHALL BE PLACED A MINIMUM OF 6 IN. BELOW THE TOP OF THE SIDE BARRIER.
10. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER. SHOP DRAWINGS SHALL INCLUDE ANY SIGN ATTACHMENT AND FLASHING FOR SIGN SUPPORTS.

DATE | REVISION | BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
SOUND BARRIER
TYPE B
INTERLOCKING STEEL PANELS

NO SCALE JUNE 17, 2004

NUMBER N-4

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
CONSTRUCTION DETAILS

DRAWING No. 40-052

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE:
FOR LARGER PIPE SIZES, TYPE "D" DROP INLET BOX WILL HAVE DETAILS AND DIMENSIONS AS SHOWN FOR TYPE "C" INLETS.

DETAILS OF C.I. GRATING & FRAME

* CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

SPECIAL NOTE:
STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

BRICK WALL THICKNESSES
(FOR ALL TYPE INLETS)

H	T
TO 10'	8"
TO 20'	12"
TO 30'	16"

NOTE:
DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES

NOTE: CONCRETE WALLS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS, BUT WHERE H IS OVER 9 FT., AND PIPE IS OVER 30" I.D., THE HORIZONTAL STEEL, WHICH IS MORE THAN 9 FT. DEEP WILL BE INCREASED TO 6" SPACINGS. 6" CONC. BOTTOM SLABS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS.

NOTE: FOR PRECAST ALTERNATES, SEE STD. 1019-A PRECAST AND/OR STD. 1040 PRECAST AND BUILT-IN-PLACE COMPONENTS MAY BE USED IN COMBINATIONS WHICH PROVIDE PROPER FITS AND STRUCTURAL ADEQUACY.

NOTE:
MINIMUM DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES, THESE DIMENSIONS MAY BE MODIFIED IF SO DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DIMENSIONS GIVEN ARE MINIMUM EXCEPT FOR "a" WHICH IS MAXIMUM.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES "A" or "B" BRICK OR REINF. CONC.			TYPE "C" OR "D" (BRICK)						TYPE "E" (BRICK)						TYPE "C","D" OR "E" (REINFORCED CONCRETE)						
	W1	W2	H(min)	W1	W2	W3	a (MAX.)	b	H(min.)	W1	W2	W3	a (MAX.)	b	H(min.)	W1 type "C"	W1 type "E"	W2	W3	a (MAX.)	b	H(min.)
15"	2'- 0"	2'- 7"	3'-3½"	2'-2⅛"	2'-11"	2'-9⅛"	0'-4 9/16"	0'-7⅞"	3'-9½"	3'-2⅛"	3'- 1"	3'-0⅝"	0'-7 9/16"	1'-1⅛"	3'-11½"	2'- 0"	2'- 1"	2'- 7"	2'- 0"	3½"	6"	3'- 6"
18"	2'- 0"	2'-10"	3'- 7"	2'-2⅛"	3'-2½"	2'-9⅛"	0'-4 9/16"	0'-7⅞"	4'-1"	3'-2⅛"	3'-4½"	3'-0⅝"	0'-7 9/16"	1'-1⅛"	4'- 1"	2'- 0"	2'- 1"	3'- 0"	2'- 0"	3½"	6"	3'-11"
24"	~	~	~	2'-8⅛"	3'-3⅛"	3'-3⅛"	0'-7 9/16"	1'-1⅛"	4'- 9"	3'-2⅛"	3'-11½	3'-0⅝"	0'-7 9/16"	1'-1⅛"	4'-8¼"	2'- 8"	2'- 9"	3'- 8"	2'- 6"	6½"	11¼"	4'- 7"
30"	~	~	~	3'-7¼"	4'-0¼"	3'-10 1/16"	1'-0⅛"	1'- 9"	5'-10"	3'-5½"	4'-8⅜"	3'- 4"	0'- 8"	1'-1⅞"	5'-6⅞"	3'- 4"	3'- 6"	4'- 9"	3'- 0"	9½"	16½"	5'-10"
36"	~	~	~	4'-1⅞"	6'-0⅝"	4'-8⅞"	1'-4 7/16"	2'-2¼"	6'-11⅛"	3'-11½	5'-8 9/16"	3'-10"	0'-11"	1'-7 1/16"	6'-7 1/16"	3'-10"	4'- 0"	5'-10"	3'- 9"	1'- 2"	2'- 0"	6'-10"
42"	~	~	~	4'-5 "	7'-1¾"	5'- 0"	1'- 6"	2'-7 3/16"	8'-0¼"	4'-6½"	7'-5 11/16"	4'- 5"	1'-2½"	2'-1 3/16"	8'-4 3/16"	4'- 5"	4'- 6"	7'- 0"	4'- 3"	1'- 5"	2'-5½"	7'-11"
48"	~	~	~	5'- 0"	8'-2¾"	5'- 7"	1'-9½"	3'-1¼"	9'-1¼"	5'-1½"	8'-6 11/16"	5'- 0"	1'- 6"	2'-7 3/16"	9'-5 3/16"	5'- 0"	5'- 0"	8'- 2"	5'- 0"	1'-9½"	3'-1½"	9'- 2"
54"	~	~	~	5'- 7"	9'- 4"	6'- 2"	2'- 1"	3'-7½"	10'-2½"	5'-8½"	9'-7¾"	5'- 7"	1'-9½"	3'-1¼"	10'-6¼"	5'- 6"	5'- 6"	9'- 2"	5'- 6"	2'-0½"	3'-6½"	10'- 0"
60"	~	~	~	6'- 2"	1'-4⅞"	6'- 9"	2'-4½"	4'-1⅜"	11'-3¼"	6'-3½"	10'-8 13/16"	6'- 2"	2'- 1"	3'-7 5/16"	11'-7 5/16"	6'- 0"	6'- 0"	10'- 3"	6'- 0"	2'-3½"	4'- 0"	11'- 1"

GENERAL NOTES:

1. SPECIFICATIONS:GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.

2. ½" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.

3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL, SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.

4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.

5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DROP INLETS
(BUILT-IN-PLACE)

SCALE AS SHOWN | REV. & REDR. AUG., 1999

DATE | REVISION | BY
DES. ____ REV. ____ TRA. ____ CHK. ____
(SUBMITTED) James A. Kennel — STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) — CHIEF ENGINEER

NUMBER 1019A

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-001

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

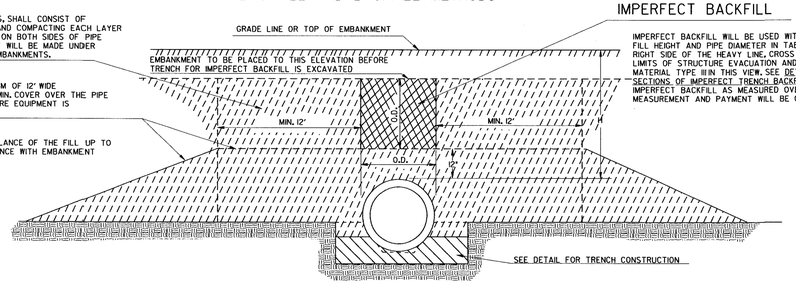
NORMAL BACKFILL

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

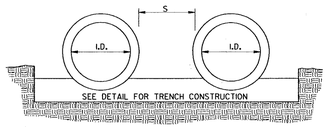
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. I FALLS ON THE RIGHT SIDE OF THE HEAVY LINE, CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EVACUATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

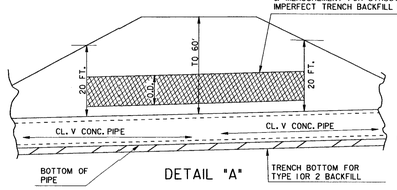


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

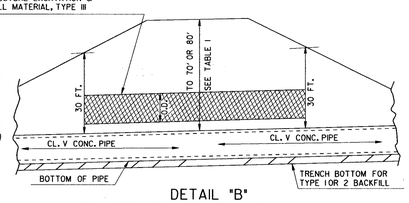
NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III

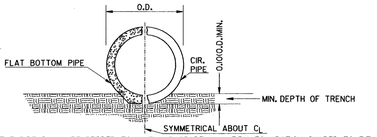


DETAIL "A"
(FOR CONCRETE PIPE DIAMETERS 78" & 84", WITH FILL HEIGHTS OVER 20 FT.)



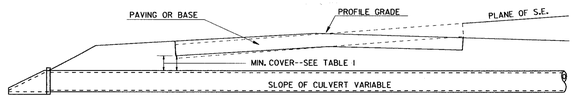
DETAIL "B"
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

TRENCH CONSTRUCTION FOR SIDE DRAIN

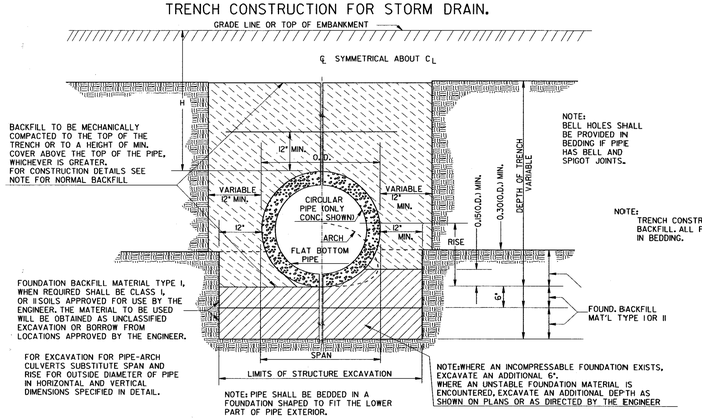


NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSABLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



TRENCH CONSTRUCTION FOR STORM DRAIN.



NOTE: PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.

NOTE: WHERE AN INCOMPRESSABLE FOUNDATION EXISTS, EXCAVATE AN ADDITIONAL 6". WHERE AN UNSTABLE FOUNDATION MATERIAL IS ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

NOTE: BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE: TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 1 OF 3
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE — REV. & REDR.: SEPT., 2001

REVISION / DATE / BY: DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) James A. Bass
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Paul L. Liles
CHIEF ENGINEER

NUMBER 1030D

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-002

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

1/15/02 2:43:41 PM \\GDOT-DSN1\GOPLOT\OCF\gord_oce9600_mylar.qcf darbyd M:\standard\English\1030d2.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TABLE NO. 1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE 1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	PIPE DIAMETER (INCHES)
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		12
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		15
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.105	
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		18
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105	
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		24
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM 1	12	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105		
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		30
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.075	.075	.075	.075	.105	.105	.105	.135	.135			
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		36
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.105	.105	.105	.105	.105	.135	.135	.135	.135			
	ALUM 2	12	.060	.060	.060	.060	.075	.075	.105	.105	.105	.135			
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	
	ALUM 1	12	.105	.105	.135	.135	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.105	.135	.135			
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		48
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	ALUM 1	12	.105	.105	.135	.164	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.135	.135	.164	.164		
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		54
	STEEL 1	12	.079	.079	.079	.079	.079	.079	.079	.109	.138	.138	.168		
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	ALUM 1	15	.105	.105	.135	.164	.164	.164							
	ALUM 2	15	.060	.060	.060	.075	.075	.105	.135	.135	.164	.164			
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		60
	STEEL 1	12	.109	.109	.109	.109	.109	.109	.109	.109	.138	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.079	.109	.138	.138	.168	.168	
	ALUM 1	15	.135	.135	.164	.164	.164	.164							
	ALUM 2	15	.060	.060	.075	.105	.105	.135	.135	.164	.164				
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			66
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168		
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.135	.164	.164					
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			72
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168				
	STEEL 2	12	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168			
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.164	.164	.164					
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V				78
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168			
	ALUM 2	21	.075	.075	.105	.105	.135	.164	.164						
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V				84
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.079	.079	.109	.109	.138	.168				
	ALUM 2	21	.105	.105	.105	.135	.135	.164	.164						
90	CONCRETE	12	III	III											90
	STEEL 2	18	.064	.064	.064	.079	.109	.109	.138	.138	.168				
	ALUM 2	24	.105	.105	.135	.135	.164								
96	CONCRETE	12	III	III											96
	STEEL 2	18	.079	.079	.079	.079	.109	.109	.138	.168					
	ALUM 2	24	.105	.105	.135	.135	.164								
102	CONCRETE	12	III	III											102
	STEEL 2	24	.079	.079	.079	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164	.164										
108	CONCRETE	12	III	III											108
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164											
114	CONCRETE														114
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.168						
	ALUM 2	24	.164	.164											
120	CONCRETE														120
	STEEL 2	24	.109	.109	.109	.109	.138	.138	.168						
	ALUM 2	24	.164	.164											

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDTIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3..

TABLE NO.3-(INFORMATION ONLY)

	COR. METAL THICKNESS	EQUIVALENT GAGE
STEEL	.064	16
	0.079	14
	0.109	12
	0.138	10
	0.168	8
ALUMINUM	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO. 1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

BY	REVISION	DATE
	GEN. REV. NOTES	9-26-01
GJP	ADDED SEAM CONST. NOTE	3-9-99

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 2 OF 3
(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)

NO SCALE | OCTOBER 21, 1998

DES. ____ DRW. ____ TRA. ____ CHK. ____
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) CHIEF ENGINEER

NUMBER 1030D

1/15/02 2:43:41 PM \\GDOT-DSN1\GOPLOT\OCF\gord_oce9600_mylar.qcf darbyd M:\standard\English\1030d2.prf GO-RD6

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-003

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	498	668

RELEASED FOR CONSTRUCTION 12/02/10

TABLE NO. I R ROUND PIPE - SPIRAL RIB ALUMINUM
MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL (FEET) ABOVE TOP OF PIPE							
			1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50
12										
15										
18	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM R	12	.060	.060	.060	.060	.060	.060	.075	.075
24	STEEL R	12	.064	.064	.064	.064	.075	.075	.105	.105
	ALUM R	12	.060	.060	.060	.060	.075	.075	.105	.105
30	STEEL R	12	.064	.064	.064	.064	.064	.064	.079	.079
	ALUM R	15	.060	.060	.060	.060	.075	.075	.105	.105
36	STEEL R	12	.064	.064	.064	.064	.064	.079	.079	.109
	ALUM R	18	.060	.060	.075	.075	.105	.105	.105	.135
42	STEEL R	12	.064	.064	.064	.064	.079	.079	.109	.109
	ALUM R	21	.075	.075	.075	.105	.105	.105	.135	.135
48	STEEL R	12	.064	.064	.064	.079	.079	.109	.109	
	ALUM R	24	.105	.105	.105	.105	.105	.135	.135	
54	STEEL R	15	.064	.064	.064	.079	.079	.109		
	ALUM R	24	.105	.105	.105	.105	.135	.135		
60	STEEL R	15	.079	.079	.079	.079	.109	.109		
	ALUM R	24	.105	.105	.105	.105	.135	.135		
66	STEEL R	18	.079	.079	.079	.109	.109			
	ALUM R	24	.135	.135	.135	.135	.135			
72	STEEL R	18	.109	.109	.109	.109	.109			
	ALUM R	27	.135	.135	.135	.135	.135			
78	STEEL R	21	.109	.109	.109	.109				
84	STEEL R	21	.109	.109	.109	.109				
90										
96										
102										
108										
114										
120										

R DENOTES SPIRAL RIB PROFILE 3/4" X 3/4" X 7-1/2"

TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASED UPON ALCLAD ALLOY 3004H34 HAVING MINIMUM YIELD STRENGTH, f_y=24,000 PSI.
IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004H32 (f_y=20,000PSI), ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:
A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 IN. BECOMES 13.8 IN.)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FT. BECOMES 29.7-34.0 FT.)

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR ALL INSTALLATIONS.

TABLE NO. 2 (PIPE-ARCH)

TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL AND CORRUGATED ALUMINUM (PIPE-ARCH) AND MAXIMUM HEIGHTS OF FILL IN FEET FOR CORRESPONDING TYPE OF PIPE-ARCH

EQUIV. RISE INCH	NON-MIN. SPAN INCH	MIN. THICKNESS (INCHES) COR. STEEL @	MIN. THICKNESS (INCHES) COR. STEEL @	MIN. THICKNESS (INCHES) COR. ALUMINUM	MIN. COVER (INCHES)	MAX. HT. FILL (FEET)
15	17	13	.064	.060	18	13
		51	.168		18	12
18	21	15	.064	.060	18	15
		52	.168		18	14
21	24	18	.064	.060	18	10
		55	.168		18	9
24	28	20	.064	.060	18	11
		59	.168		18	10
30	35	24	.064	.075	18	9
		63	.168		18	8
36	42	29	.064	.105	18	7
		67	.168		18	7
42	49	33	.079	.105	18	7
		76	.188		18	7
48	57	38	.079	.135	18	12
		81	.188		18	12
54	64	43	.079	.135	18	7
		86	.188		18	7
60	71	47	.079	.164	18	7
		90	.188		18	7
66	77	51	.079		18	15
		92	.188		18	15
77	83	55	.079		18	16
		96	.188		18	16
78	87	63	.079		18	14
		97	.188		18	14
84	93	67	.109		24	12
		103	.188		24	11
90	103	71	.109		24	11
		110	.188		24	11

NOTE FOR TABLE NO. 2
ALTERNATE CORRUGATIONS FOR PIPE-ARCHES, HAVING EQUAL PERIPHERY TO THAT SHOWN, MAY BE SUBSTITUED IF LISTED IN AASHTO SPECIFICATION.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 3 OF 3
(FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH)

NO SCALE SEPT., 2001

REVISION / DATE

BY: DESIGNED ____ TRACED ____ CHECKED ____ REVISED ____

(SUBMITTED) James A. Bennett STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) Paul V. Liles, Jr. CHIEF ENGINEER

NUMBER 1030D

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-004

3/1/2007 GPLN

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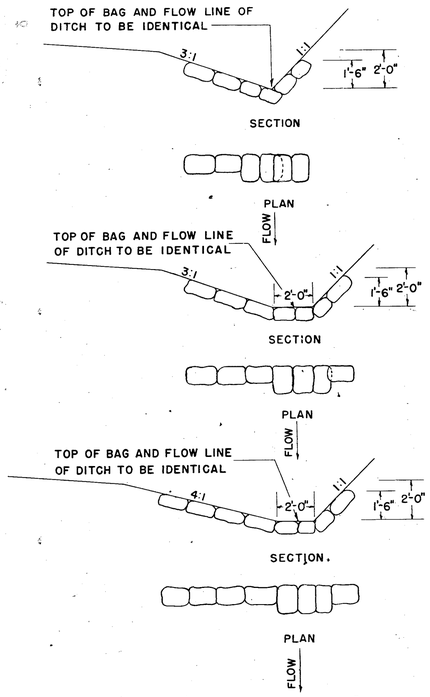
1/15/02 2:43:46 PM \\GDOT-DSN1\GDPLOT\DCF\gord_dc6600_mylar.dcf darbyd M:\standard\English\1030d3.prt GD-R06

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
GA.			

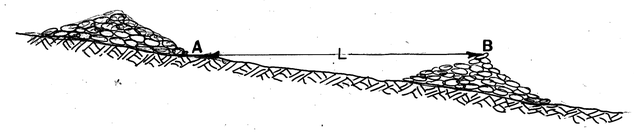
SAND CEMENT BAG DITCH CHECKS



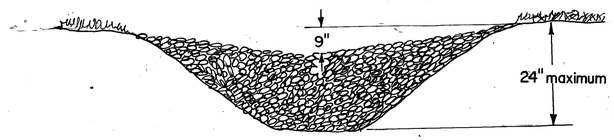
STONE RIP RAP DITCH CHECKS

(TYPICAL FOR TEMPORARY DITCH CHECKS)

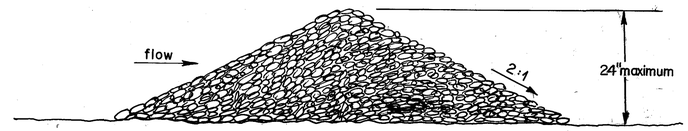
"L" = the distance such that Pt. A & Pt. B are of Equal Elevation.



SPACING BETWEEN DITCH CHECKS



SECTION



LONGITUDINAL VIEW

NOTES FOR "SAND CEMENT BAG DITCH CHECKS":

1- NORMAL SIZE OF SAND CEMENT BAGS TO BE ACCORDING TO SECTION 603.

2- SECTIONS SHOWN MAY BE MODIFIED TO FIT OTHER FORESLOPE AND BACKSLOPE RATIOS, DEPTHS AND WIDTH OF DITCHES. DITCH CHECKS TO BE CONSTRUCTED TO AN ELEVATION OF NOT LESS THAN SIX (6) INCHES BELOW NORMAL SHOULDER ELEVATION. TOP OF SAND CEMENT BAGS TO BE IDENTICAL WITH FLOW LINE OF DITCH.

3- ARRANGEMENT OF BAGS MAY BE VARIED IN POSITION SHOWN TO FIT LOCAL CONDITIONS.

4- DITCH CHECKS TO BE PLACED AT VERTICAL INTERVALS NOT MORE THAN SIX (6) INCHES.

5- DITCH CHECK DIMENSIONS ARE TYPICAL AND MAY BE VARIED BY THE ENGINEER.

NOTES FOR "STONE RIP RAP DITCH CHECKS":

1- STONE RIP RAP DITCH CHECKS, AS SHOWN ABOVE, SHALL NOT BE USED INSIDE THE CLEAR ZONE.

2- STONE DUMPED RIP RAP SHALL BE ACCORDING TO SECTION 603, EXCEPT WHEN NOTED OTHERWISE.

3- TEMPORARY DITCH CHECKS SHALL BE ACCORDING TO SECTION 163.

4- THE CONTRACTOR MAY ELECT TO SUBSTITUTE SAND BAG RIP RAP FOR THE STONE SHOWN AND TO THE SAME DIMENSIONS WITH NO CHANGE IN PAYMENT.

BY	REVISIONS	DATE
A.V.S.	Delete Basis of Payment & ref. to Sect. 104 of Specs.	2-15-66
R.M.U.	Add Stone Ditch Checks	7-2-97

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAND CEMENT BAG
DITCH CHECKS
STONE RIP RAP DITCH CHECKS

NO SCALE 1-30-50 DATE

DESIGNED W.A.J.
DRAWN
TRACED H.T.B.
CHECKED W.A.J.

SUBMITTED [signature] ROAD DESIGN ENGINEER
APPROVED [signature] STATE HIGHWAY ENGINEER

NUMBER 1031

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

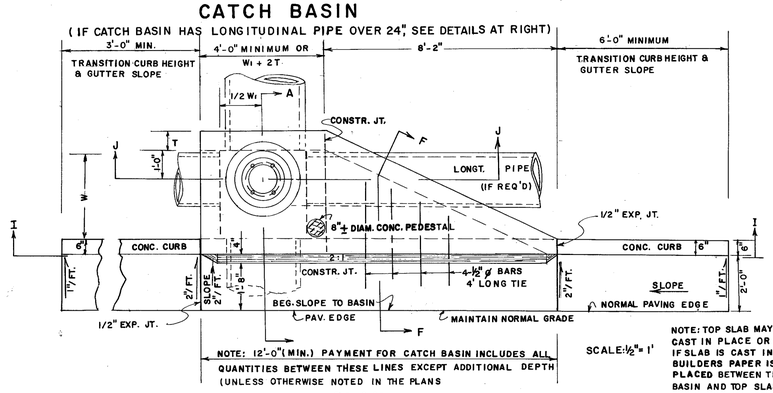
DRAWING No. 41-005

RELEASED FOR CONSTRUCTION 12/02/10

AF 21866

CATCH BASIN

(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)

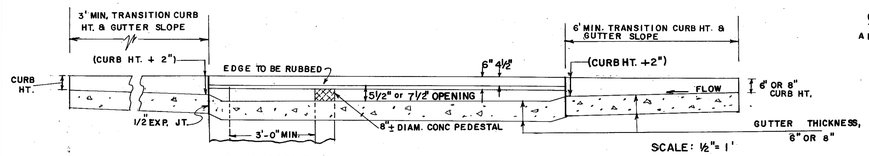


NOTE: 12'-0"(MIN.) PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH (UNLESS OTHERWISE NOTED IN THE PLANS

SCALE: 1/2"= 1'

NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST, IF SLAB IS CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

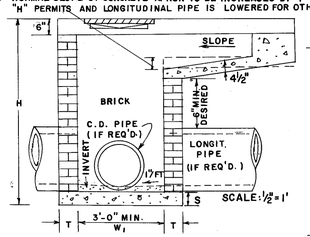
PLAN



SCALE: 1/2"= 1'

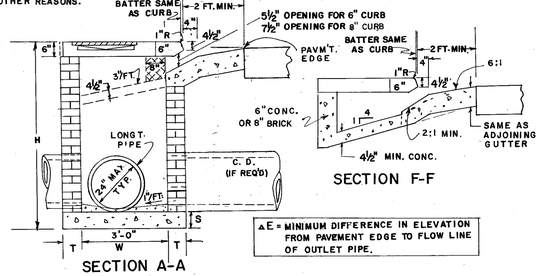
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



SCALE: 1/2"= 1'

SECTION J-J

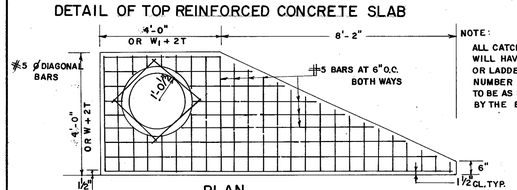


SECTION A-A

SECTION F-F

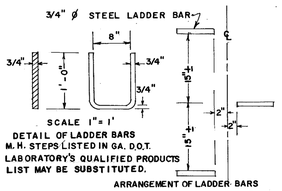
ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.



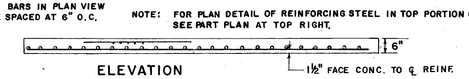
SCALE 1"= 1'

NOTE: DETAIL OF LADDER BARS M. H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ARRANGEMENT OF LADDER BARS

NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

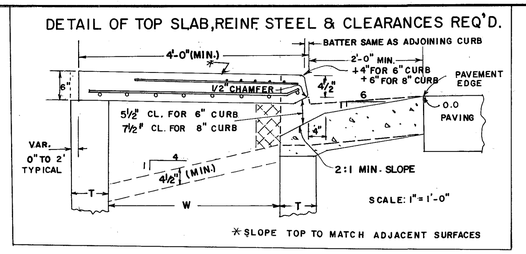
NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.



ELEVATION

W OR W1 (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W, #4 BARS 12" O.C. BOTH WAYS 2"ℓ FROM SLAB TOP	8"

DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

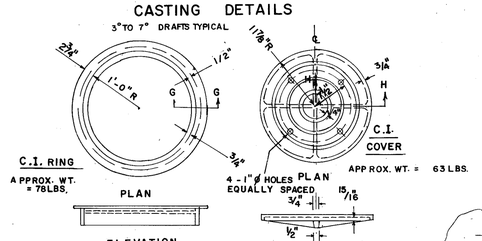


SCALE: 1"= 1'-0"

* SLOPE TOP TO MATCH ADJACENT SURFACES

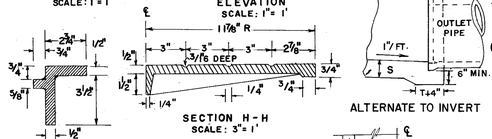
CASTING DETAILS

3" TO 7" DRAFTS TYPICAL



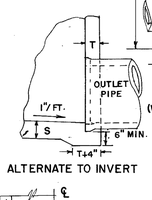
ELEVATION SCALE: 1"= 1'

ELEVATION SCALE: 1"= 1'

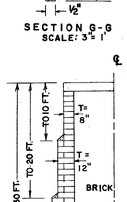


SECTION G-G SCALE: 3"= 1'

SECTION H-H SCALE: 3"= 1'

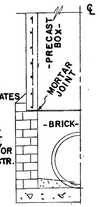


ALTERNATE TO INVERT



DEPTH LIMITS FOR INCREASING "T"

NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES. ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRE-CAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS.

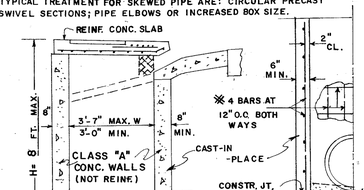


PRECAST BOX ON BRICK (HALF-SECTION)

NOTE: TYPICAL TREATMENT FOR SKEWED PIPE ARE: CIRCULAR PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE.

PIPE DIA.	H (MIN.)	W or W1	±E (MIN)
12	4'- 4"	3'-0"	3'-3"
15	4'- 7"	3'-0"	3'-6"
18	4'- 10"	3'-0"	3'-9"
24	5'- 6"	3'-0"	4'-4"
30	6'- 2"	3'-7"	5'-0"
36	6'- 10"	4'-6"	5'-7"
42	7'- 4"	5'-3"	5'-11"
48	8'- 0"	6'-0"	6'-6"
54	8'- 6"	6'-8"	7'-0"
60	9'- 2"	7'-4"	7'-7"

NOTE: THE MIN. H & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.



NON-REINFORCED SMALL BASIN (W. NOT OVER 3'-7")

REINFORCED CONCRETE (HALF-SECTION)

CONSTRUCTION ALTERNATES

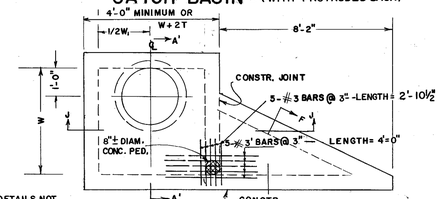
NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)

CATCH BASIN - (WITH PROTRUDED BACK)

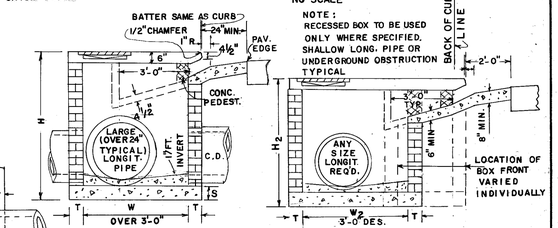


NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

PART PLAN

NO SCALE

NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED. SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL



SECTION A'-A' (WITH LARGE LONGITUDINAL PIPE)

NOTE: H_2 & W_2 TO BE SHOWN IN THE PLANS

SECTION A-A' (WITH RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB

PLAN

ELEVATION

NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN — REV. & REDR. AUGUST, 1982

REV. & REDR. RMJ
TRA. GME
CHK. RKC

(SUBMITTED) Lloyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Howard — STATE HIGHWAY ENGINEER

NUMBER 1033 D

FORM EF3

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

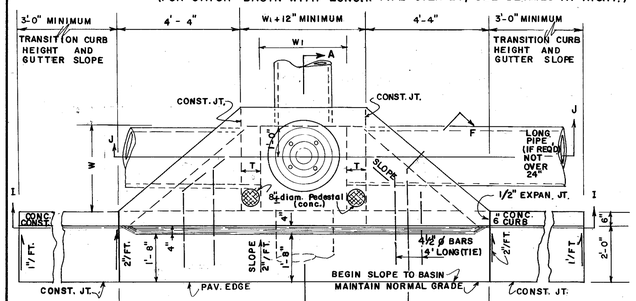
DRAWING No. 41-006

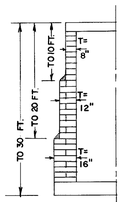
RELEASED FOR CONSTRUCTION 12/02/10

AF 21868

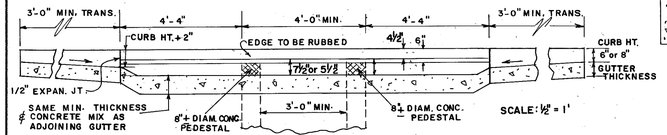
CATCH BASIN

(FOR CATCH BASIN WITH LONGIT. PIPE OVER 24", SEE DETAILS AT RIGHT.)

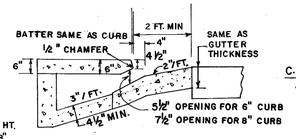




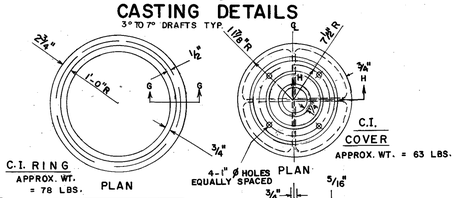
DEPTH LIMITS FOR INCREASING "T"

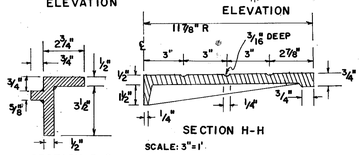


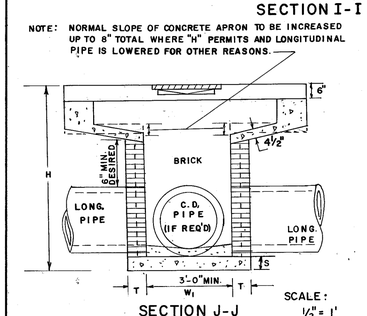
SECTION I-I



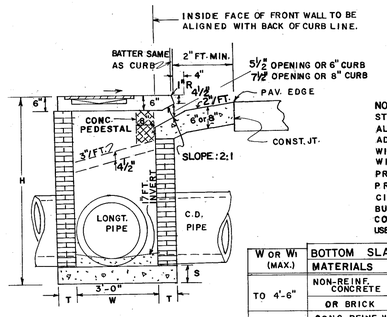
SECTION F-F





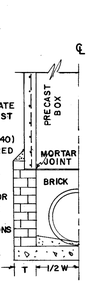


SECTION J-J SCALE: ½" = 1'



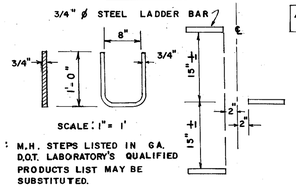
SECTION A-A

NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES. ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRECAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS



PRECAST BOX ON BRICK (HALF-SECTION)

W or W1 (MAX.)	BOTTOM SLAB MATERIALS	"S"
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W1 4 BARS 12" O.C. BOTH WAYS 2" CL FROM SLAB TOP	8"



NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS. NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.

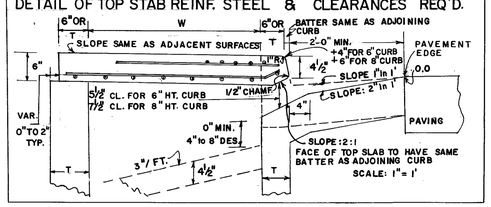
DETAIL OF LADDER BARS

▲E = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

TYPICAL MIN. DIMENSIONS			
PIPE DIA.	H (MIN.)	W or W1	MIN. ▲E
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
54	8'-6"	6'-8"	7'-0"
60	9'-2"	7'-4"	7'-7"

NOTE: THE MIN. H & MIN. ▲E GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED, IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W & W1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

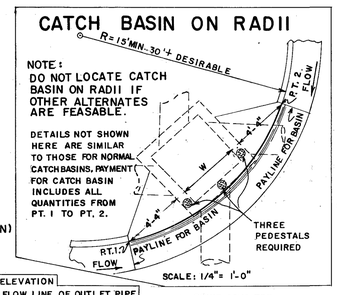
DETAIL OF TOP STAB REINF. STEEL & CLEARANCES REQ'D.

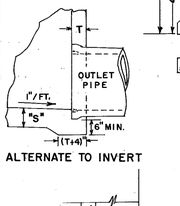


CASTING DETAILS

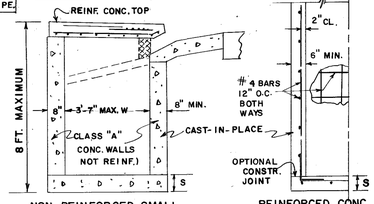
3° TO 7° DRAFTS TYP.

CATCH BASIN ON RADII





ALTERNATE TO INVERT



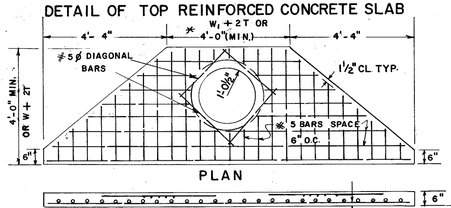
NON REINFORCED SMALL BASIN (W1 NOT OVER 3'-7")

REINFORCED CONC. HALF-SECTION

NOTE: CONSTRUCTION ALTERNATES

DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

DETAIL OF TOP REINFORCED CONCRETE SLAB



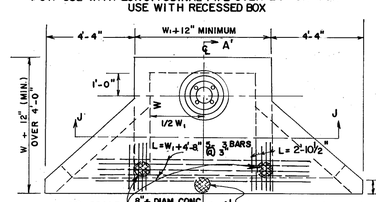
NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF CAST IN PLACE, BUILDER'S PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

FORM EP3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CATCH BASIN (WITH PROTUDED BACK)

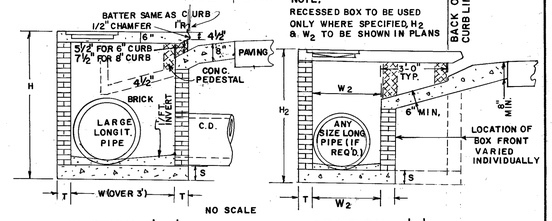
FOR USE WITH LONGITUDINAL PIPE OVER 24" OR FOR USE WITH RECESSED BOX



NOTE:
DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT FAR LEFT FOR NORMAL CATCH BASINS.

PART PLAN

NOTE:
RECESSED BOX TO BE USED ONLY WHERE SPECIFIED. H2 & W2 TO BE SHOWN IN PLANS



SECTION A'-A' (FOR LONGIT. PIPE OVER 24")

SECTION A'-A' (FOR RECESSED BOX)

NOTE:
TYPICAL TREATMENT FOR SKEWED PIPES ARE: CIRCULAR PRECAST UNITS; PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZES TO ACCOMODATE THE SKEWS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN — REV. & RED. AUGUST, 1982

REV. & REDR. R.M.U.	(SUBMITTED) Floyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.	NUMBER 1034D
TRA G.M.E. CHK. R.K.C.	(APPROVED) Harry D. Mulkey — STATE HIGHWAY ENGINEER	

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-007

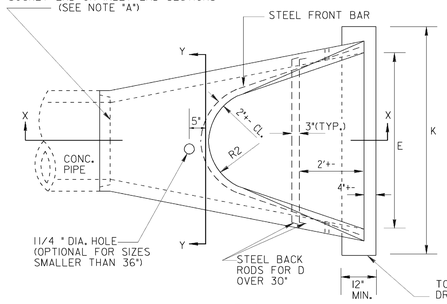
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

9/6/2006 9:44:21 AM \\GDOT-DSN\GOPLOT\GCF\go_tiff_output.gcf gowens M:\GARY\REVISED I120\I120.prf GO-RD6

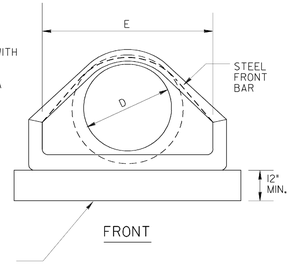
CONCRETE FLARED END SECTION

END SECTION TO PIPE JOINT SHOWN AS TYPICAL:
HUB END ON OUTLET END SECTIONS;
SOCKET END ON INLET END SECTIONS
(SEE NOTE *A*)



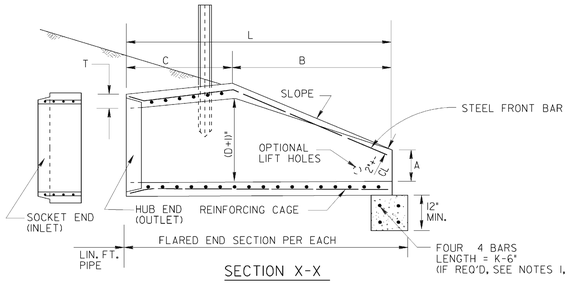
PLAN

INSTALLATION: (D OVER 30") CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THRU 1 1/4 " HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONC. SECTION TO PROVIDE ADEQUATE BEARING AREA OR A LIFTING ASSEMBLY DEVICE MAY BE USED TO GIVE 3 LIFT POINTS. HOOKS CONNECTED DIRECTLY TO CONCRETE IS NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.

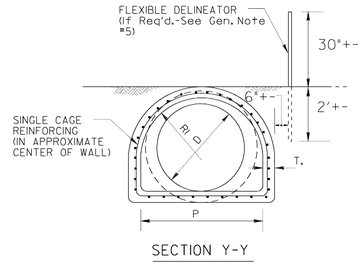


FRONT

NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



SECTION X-X



SECTION Y-Y

REINFORCING CAGE:

(1.) WIRE FABRIC HAVING EQUAL STEEL AREA AS INNER CAGE FOR CLASS II PIPE, AASHTO M-170.
(2.) ALTERNATE: # 3 BARS SPACED 12"+LONGITUDINALLY WITH # 2 BARS TRANVERSELY AT 6' O.C. MAX. SPACING, SPOT WELDED OR TIED TO FORM CAGE. (BACK RODS MAY BE OMITTED.)

NOTE 'A':
CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR.
FLARED END SECTIONS SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN.

T = PIPE WALL THICKNESS (0.0833D + 1"+- TYPICAL)

DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+- 1" TOLERANCE)

PIPE DIA	FRONT BAR	BACK RODS	SLOPE +-	A	B	C*	L*	E	P	RI	R2	OUTLET TOEWALL (IF REQ'D) K= E + 2'	CU.YDS. CONC.
12"	I-#3 x 5'-4"	NOT REQ'D.	2.2:1	4"	2'-0"	4'-1"	6'-1"	2'-0"	1'-8"	10"	9"	4'-0"	.148
15"	I-#3 x 6'-0"	NOT REQ'D.	2.2:1	6"	2'-3"	3'-10"	6'-1"	2'-6"	2'-0"	1'-0"	11"	4'-6"	.167
18"	I-#3 x 7'-2"	NOT REQ'D.	2.2:1	9"	2'-3"	3'-10"	6'-1"	3'-0"	2'-5"	1'-4"	1'-0"	5'-0"	.185
24"	I-#3 x 9'-10"	NOT REQ'D.	2.4:1	10"	3'-8"	2'-6"	6'-2"	4'-0"	2'-9"	1'-5"	1'-2"	6'-0"	.222
30"	I-#4 x 11'-8"	NOT REQ'D.	2.4:1	12"	4'-6"	1'-8"	6'-2"	5'-0"	3'-1"	1'-6"	1'-3"	7'-0"	.259
36"	I-#4 x 13'-10"	2-#4 x 6'-3"	2.4:1	15"	5'-3"	2'-11"	8'-2"	6'-0"	4'-0"	2'-0"	1'-8"	8'-0"	.296
42"	I-#4 x 13'-10"	2-#4 x 7'-4"	2.4:1	21"	5'-3"	2'-11"	8'-2"	6'-6"	4'-6"	2'-4"	1'-10"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCERS OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

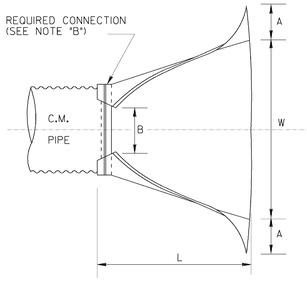
* NOTE: "C" AND "L" DIMENSION MAY BE MEASURED TO EITHER END OF JOINT CONNECTION AT PIPE.

METAL FLARED END SECTION

(USE ONLY WITH COR. METAL PIPE)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REQUIRED CONNECTION (SEE NOTE "B")



PLAN

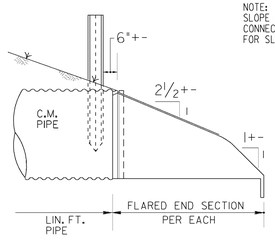
NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.

FLARED END SECTION DIMENSIONS

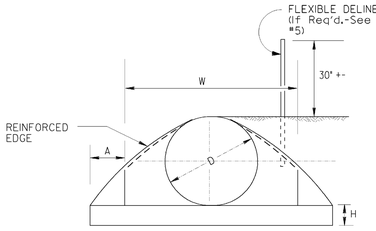
PIPE SIZE "D"	THICKNESS GALV. STEEL	THICKNESS ALUM.	A A= 0.4D +- 1"	B B=0.5 D +- 1"	H H=0.25D +- 1" (MIN.6")	L L=1.67D +- 1/2"	W W=2.0D +- 2"
12"	.064"	.060"	5"	6"	6"	1'-8"	2'-0"
15"	.064"	.060"	6"	7"	6"	2'-3"	2'-6"
18"	.064"	.060"	7"	9"	6"	2'-6"	3'-0"
24"	.064"	.060"	9"	1'-0"	6"	3'-4"	4'-0"
30"	.079"	.105"	1'-0"	1'-3"	7"	4'-2"	5'-0"
36"	.079"	.105"	1'-2"	1'-6"	9"	5'-0"	6'-0"
42"	.109"	.164"	1'-5"	1'-9"	10"	5'-10"	7'-0"

NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=1.75 D TYPICAL). TO PREVENT OVERLAP OF END SECTION WINGTIPS. SEE ALSO STD. 1030D.

NOTE:
SLOPE DRAIN PIPES WILL REQUIRE AN ELBOW FOR CONNECTION TO THE FLARED END SECTION. PAYMENT FOR SLOPE DRAIN PIPE WILL INCLUDE THIS ELBOW.



SIDE



FRONT

SPECIAL NOTE:

FLARED END SECTIONS ARE NORMALLY LIMITED TO USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END SECTIONS OR OTHER PIPE END STRUCTURES.

NOTE "B":

THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE FOLLOWING:

(a) A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR TO CL OF PIPE)

(b) A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION. PIPE WILL BE INSERTED INTO BAND COLLAR TO MEET THE END SECTION.

(c) A STUB PIPE WILL BE RIVITED TO THE END SECTION AND THE MAIN PIPE CONNECTED TO THE STUB WITH A NORMAL CONNECTING BAND.

(d) OTHER TYPE CONNECTION IF RECOMMENDED BY MANUFACTURER AND APPROVED BY THE D.O.T.

GENERAL NOTES :

1. TOEWALLS ARE REQ'D. FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR THE ENGINEER.

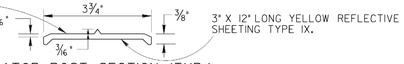
2. TOEWALLS WILL BE PAID FOR AS CU. YDS. OF CLASS "A" OR "B" CONCRETE. CONTRACTOR MAY ELECT TO CONSTRUCT TOE WALL WITH SAND CEMENT BAG RIPRAP OR STONE RIPRAP TO SAME MINIMUM DIMENSIONS WITH NO ADDITIONAL PAYMENT.

3. PRECAST TOEWALLS SHALL BE CL. "A" CONCRETE; CAST-IN-PLACE TOEWALLS MAY BE CL "A" OR "B" CONCRETE AND MAY BE TRENCH FORMED. WHERE PLANS ITEMIZE ONE CLASS OF CONCRETE AND CONTRACTOR ELECTS TO USE OTHER CLASS, NO ADDITIONAL PAYMENT IS MADE. NO PAYMENT IS MADE FOR STEEL IN TOEWALL.

4. CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE. IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH END SECTION.

5. FLEXIBLE DELINEATORS SHALL BE REQUIRED AT CROSS DRAIN FLARED END SECTIONS, BOTH INLET AND OUTLET. PAYMENT FOR FLARED END SECTION WILL INCLUDE DELINEATORS, SEE DETAIL AND NOTES BELOW. DELINEATORS NOT REQ'D. FOR SIDE DRAIN, SLOPE DRAIN, OR LONG PIPE.

1" X 12" LONG YELLOW REFLECTIVE SHEETING TYPE IX, ON EACH SIDE OF RIDGE.



3" X 12" LONG YELLOW REFLECTIVE SHEETING TYPE IX.

DELINEATOR POST SECTION (TYP.)

NOTE:
DELINEATOR POST SHALL CONFORM TO SEC. 911 FOR FLEXIBLE DELINEATOR POST EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED AND LENGTH IS 4'-6" FROM TOP TO BOTTOM POINT. ALTERNATES PERMITTED IF APPROVED BY D.O.T. LABORATORY.

SPECIAL NOTE :

PIPE SIZES (D) ARE "NOMINAL-MINIMUM" INSIDE DIAMETERS IN ACCORDANCE WITH GEORGIA STANDARD FOR PIPE CULVERTS. "D" DIMENSION FOR FLARED END SECTION SHALL EQUAL THE "D" DIMENSION FOR CONNECTING PIPE CULVERT.

DATE	REV. REFLECTIVE SHEETING REVISION	BY
6-9-06		GLO

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
FLARED END SECTIONS
FOR PIPES

NO SCALE REV. & REDR. SEPT., 1999

DES. ____ REV. ____ RETR. ____ CHK. ____

(SUBMITTED) _____ STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) _____ CHIEF ENGINEER

NUMBER 1120

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-008

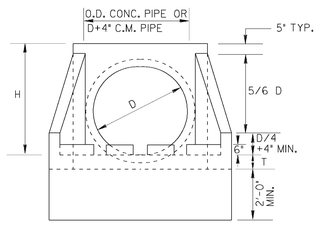
9/6/2006 9:44:21 AM \\GDOT-DSN\GOPLOT\GCF\go_tiff_output.gcf gowens M:\GARY\REVISED I120\I120.prf

7/7/2004 10:49:45 AM \\GDOT-DSN1\GDPLOT\GCF\GO_TIFF_OUTPUT.GCF GOWENS_M\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\1125.PRF GO-RD6

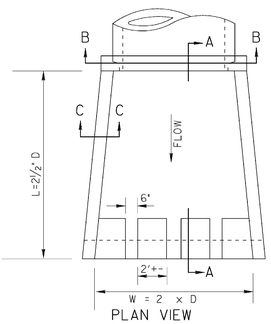
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET HEADWALL

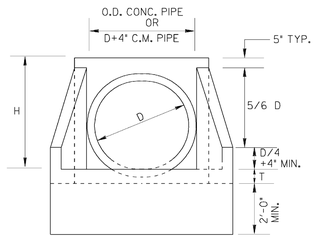


FRONT ELEVATION



PLAN VIEW

INLET HEADWALL



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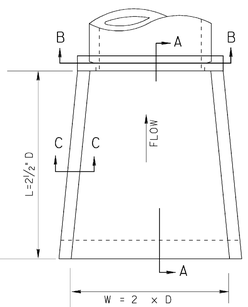
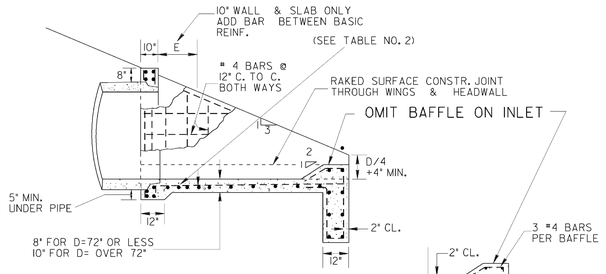
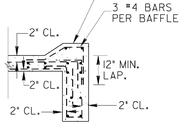


PLAN VIEW

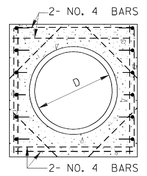


SECTION A-A

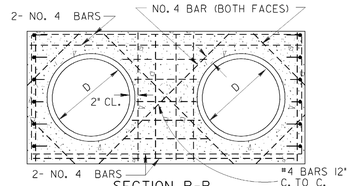


10" SLAB

D = INSIDE DIAMETER OF PIPE



SECTION B-B
(SINGLE PIPE LINE)



SECTION B-B
(MULTIPLE PIPE LINE)

TABLE NO. 1- QUANTITIES FOR HEADWALLS

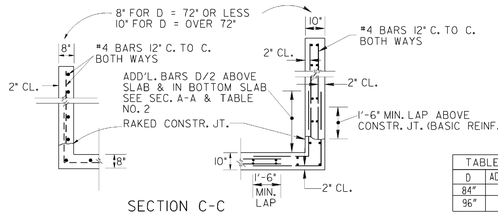
	CU. YDS. CONCRETE (PAY QUANTITIES)*					LBS. STEEL (GIVEN FOR INFORMATION ONLY)				
	FOR SINGLE LINE			ADD FOR ADD'L LINE		FOR SINGLE LINE			ADD FOR EACH ADD'L LINE	
D	INLET	OUTLET		INLET	OUTLET	INLET	OUTLET		INLET	OUTLET
15"	0.87	0.93		0.60	0.66	102	113		73	83
18"	1.10	1.16		0.85	0.93	106	117		93	104
24"	1.61	1.69		1.29	1.37	127	138		124	134
30"	2.21	2.32		1.83	1.96	170	180		154	164
36"	2.92	3.05		2.49	2.63	238	254		196	212
42"	3.73	3.87		3.00	3.17	290	306		231	247
48"	4.62	4.80		3.58	3.74	335	351		265	281
54"	5.63	5.83		4.17	4.38	407	428		319	340
60"	6.72	6.95		4.82	5.01	456	477		360	391
72"	9.22	9.48		6.24	6.46	623	649		475	494
84"	14.84	15.19		9.05	9.29	1517	1539		1017	1044
96"	18.88	19.27		11.13	11.41	2118	2150		1323	1350

*NOTE:
QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

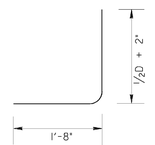
H = D + 10" MIN. FOR C.M. PIPE
H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE (13/12 D + 9" TYP.)

T = 8" FOR D = 72" OR LESS
T = 10" FOR D = OVER 72"



SECTION C-C

TABLE NO. 2		
D	ADD'L.BAR	E
84"	#4	5"
96"	#4	8"



ADDITIONAL BAR DETAIL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TAPERED
INLET HEADWALL - OUTLET HEADWALL
(BUILT-IN-PLACE)

NO SCALE — REV. & REDR. OCT., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) CHIEF ENGINEER

NUMBER 1125

DATE | REVISION | BY

7/7/2004 10:49:48 AM \\GDOT-DSN1\GDPLOT\GCF\GO_TIFF_OUTPUT.GCF GOWENS_M\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\1125.PRF

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

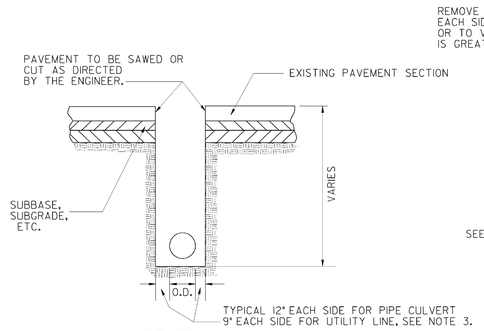
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-009

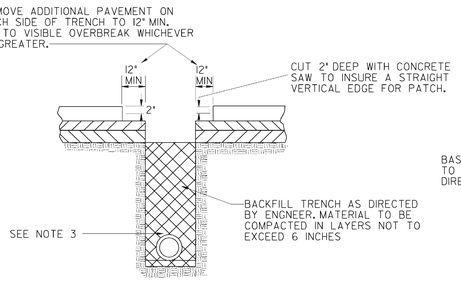
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

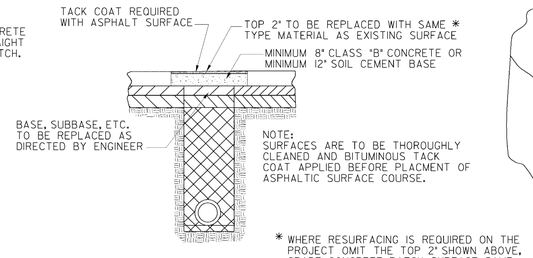
STORM DRAIN AND UTILITY INSTALLATION BY OPEN CUT - GENERAL



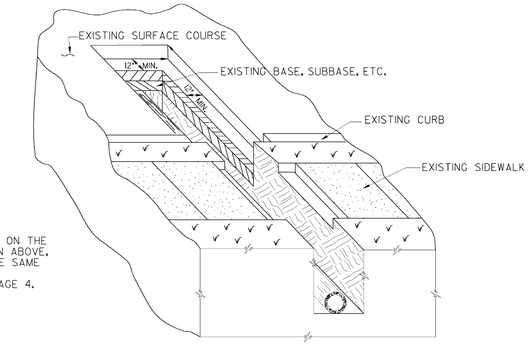
STAGE 1



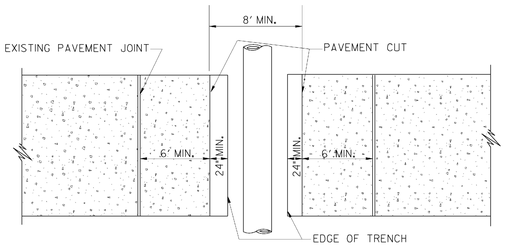
STAGE 2



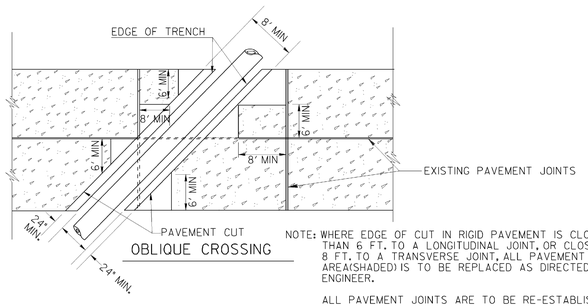
STAGE 3



STORM DRAIN AND UTILITY INSTALLATION BY OPEN CUT ACROSS P.C. CONCRETE PAVING



NORMAL CROSSING

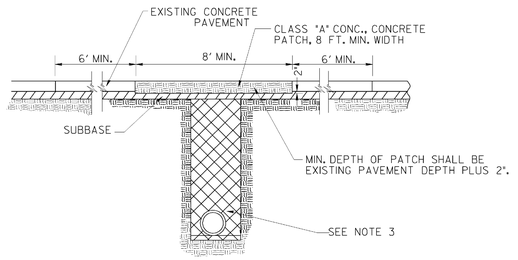


OBLIQUE CROSSING

NOTE: WHERE EDGE OF CUT IN RIGID PAVEMENT IS CLOSER THAN 6 FT. TO A LONGITUDINAL JOINT, OR CLOSER THAN 8 FT. TO A TRANSVERSE JOINT, ALL PAVEMENT IN THAT AREA(SHADED) IS TO BE REPLACED AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT JOINTS ARE TO BE RE-ESTABLISHED.

DOWELS AND TIE-BARS ARE TO BE REPLACED.



NOTE:
WHEN THE CONCRETE IS POURED, IT SHALL BE STRUCK OFF AT AN ELEVATION SLIGHTLY HIGHER THAN THE INTENDED SURFACE AND TAMPED TO OFFSET SHRINKAGE. MECHANICAL VIBRATING EQUIPMENT SHALL BE USED TO CONSOLIDATE THE PLACED CONCRETE, ESPECIALLY AT THE EDGES AND AROUND THE STEEL AT JOINTS. THE CONCRETE SHALL THEN BE TAMPED A SECOND TIME, THEN SCREEDED AND CHECKED WITH A STRAIGHT EDGE TO GIVE THE SAME SURFACE GRADE AS THE EXISTING PAVMENT.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.

2. (a)OTHER PAVEMENT REPLACEMENT MATERIALS, SUCH AS HIGH EARLY STRENGTH CONCRETE, MAY BE SUBSTITUTED FOR MATERIALS SHOWN WHEN CALLED FOR IN THE PLANS OR BY THE ENGINEER.
   (b)PAYMENT FOR PIPE CULVERT OR UTILITY SHALL INCLUDE SAWING AND/OR CUTTING AND REMOVING EXISTING PAVEMENT AND REPLACING THE PAVEMENT AS SPECIFIED. PAYMENT FOR PIPE OR UTILITY INCLUDES THIS PAVEMENT REPLACEMENT MATERIAL. REGARDLESS OF WHERE MATERIALS SHOWN ARE USED OR WHERE OTHER MATERIALS SUCH AS HIGH EARLY STRENGTH CONCRETE ARE USED.
   (c)PAYMENT FOR PIPE CULVERT OR UTILITY INSTALLATION SHALL INCLUDE REPLACING IN KIND ANY PORTIONS OF SIDEWALK, CURB, CURB & GUTTER, MEDIAN PAVING, DRIVEWAYS, ETC., WHICH ARE DISTURBED DUE TO THE INSTALLATION.

3. TRENCH DETAIL SHOWN IS GENERAL, SEE STANDARD 1030D FOR DETAILS REQUIRED FOR PIPE CULVERT INSTALLATIONS. SEE THE UTILITIES MANUAL FOR UTILITY INSTALLATION REQUIREMENTS.

4. AFTER REMOVING EXISTING PAVEMENT, THE SUBBASE AND VERTICAL FACE OF EXISTING PAVING SHALL BE DAMPED (BUT NOT WET), ADDITIONALLY, THE VERTICAL FACE OF THE EXISTING PAVEMENT SHALL BE PAINTED WITH A SOLUTION OF PORTLAND CEMENT AND WATER MIXED TO THE CONSISTENCY OF HEAVY PAINT. THE CONCRETE MIX SHALL THEN BE POURED BEFORE THIS SURFACE DRIES OUT. AFTER CONCRETE IS POURED, IT SHALL BE WORKED INTO ALL CORNERS AND INTO ALL ROUGH SURFACES OF THE EXISTING PAVEMENT.

5. WHERE PIPE IS REMOVED, BUT NOT REPLACED, PAYMENT FOR PIPE REMOVAL INCLUDES ALL ITEMS DESCRIBED IN GENERAL NOTE 2., WITH ALL OTHER NOTES AND DETAILS ALSO BEING APPLICABLE.

NOTE:
THIS STANDARD IS FOR USE WHERE PERMANENT PAVEMENT PATCHING IS REQUIRED. TEMPORARY PATCHING, IF REQUIRED, SHALL BE ACCORDING TO OTHER DETAILS, SPECIFICATIONS, AND/OR AS DIRECTED BY THE ENGINEER.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

PAVEMENT PATCHING DETAILS
(STORM DRAIN OR UTILITY INSTALLATIONS BY OPEN CUT ACROSS EXISTING PAVEMENT)

NO SCALE — REV. & REDR., AUG. 1999

DATE | REVISION | BY

REV. ____ TRA. ____ CHK. ____

(SUBMITTED) Kenneth Krause
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Carol L. Comer
CHIEF ENGINEER

NUMBER 1401

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

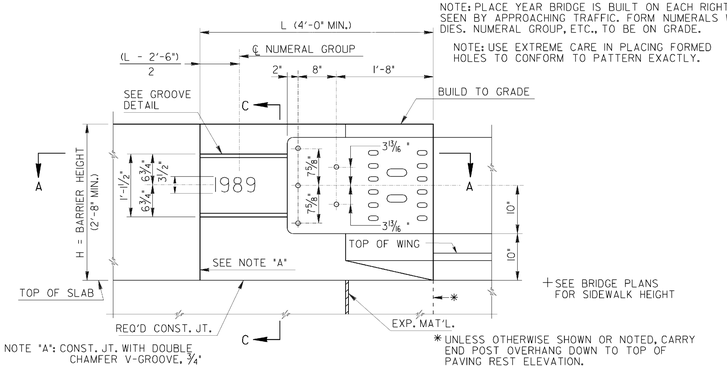
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-010

2/26/03 11:18:26 AM \\GDOT-DSN1\GOPLOT\OCF\gg_Tiff_Output.ocf derbyd M:\standard\English\3054.prf GO-RD6

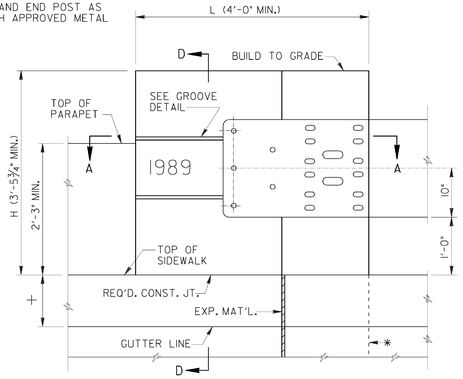
NOTE: PLACE YEAR BRIDGE IS BUILT ON EACH RIGHT-HAND END POST AS SEEN BY APPROACHING TRAFFIC. FORM NUMERALS WITH APPROVED METAL DIES. NUMERAL GROUP, ETC., TO BE ON GRADE.

NOTE: USE EXTREME CARE IN PLACING FORMED HOLES TO CONFORM TO PATTERN EXACTLY.

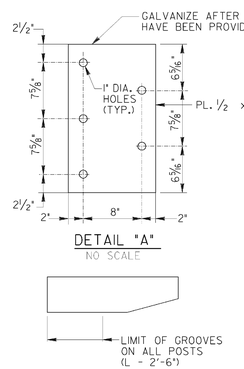


NOTE "A": CONST. JT. WITH DOUBLE CHAMFER V-GROOVE, ¾"

FRONT ELEVATION - END POST
BARRIER
SCALE: 1"=1'-0"



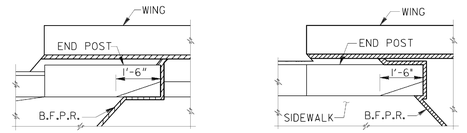
FRONT ELEVATION - END POST
SIDEWALK AND PARAPET
SCALE: 1" = 1'-0"



DETAIL "A"
NO SCALE

DETAIL "B"
NO SCALE

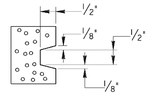
MATERIALS	
ITEM	SPECIFICATIONS
GUARDRAIL	A.A.S.T.H.O. SPECIFICATION M 180
½" PLATE	A.S.T.M. DESIGNATIONS A-36
NUTS & BOLTS	A.S.T.M. DESIGNATION A-307
WASHERS	MEDIUM STEEL
GALVANIZING	A.S.T.M. A-153



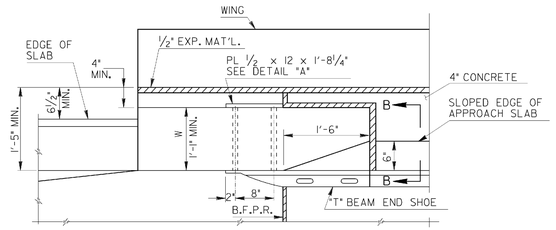
BARRIER

SIDEWALK AND PARAPET

TYPICAL SKEWED END DETAIL
SCALE: ½" = 1'-0"

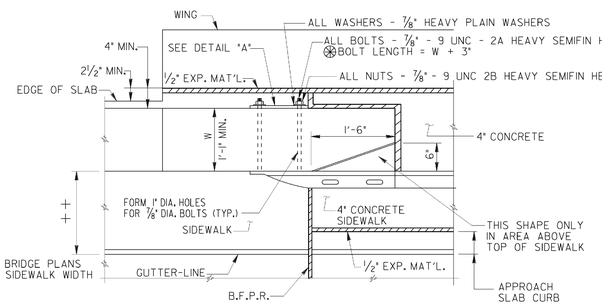


GROOVE DETAIL
HALF SCALE



PLAN - END POST
BARRIER
SCALE: 1"=1'-0"

⊛ BOLT LENGTH SHALL BE OF SUFFICIENT LENGTH TO PROVIDE FOR FULL NUT ATTACHMENT. W + 3" DIMENSION SHALL BE FIELD VERIFIED PRIOR TO ORDERING BOLTS TO INSURE PROPER LENGTH.



PLAN - END POST
SIDEWALK AND PARAPET
SCALE: 1" = 1'-0"

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD.

LOCATION - ALL END POSTS UNLESS NOTED ON BRIDGE PLANS.

CHAMFER - CHAMFER ALL EXPOSED EDGES ¾".

GALVANIZING - ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION.

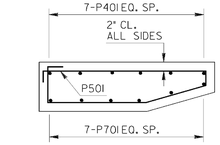
PAYMENT FOR MISCELLANEOUS HARDWARE - COST OF ½" PLATE AND MISCELLANEOUS HARDWARE SHALL BE INCLUDED IN THE PRICES BID FOR CONTRACT ITEMS.

PAYMENT FOR THE END POST - IF END POST IS A PORTION OF THE SUBSTRUCTURE, CONCRETE AND REINFORCEMENT ARE COMPUTED AND INCLUDED IN THE END BENT QUANTITIES.
IF END POST IS A PORTION OF THE SUPERSTRUCTURE, CONCRETE AND REINFORCEMENT ARE COMPUTED AND INCLUDED IN THE END SPAN QUANTITIES.

RESPONSIBILITY - WHEN THE BRIDGE CONTRACT IS SEPARATE FROM THE CONTRACT CONTAINING THE APPROACHING GUARDRAIL, THE BRIDGE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR THE CONSTRUCTION OF THE END POSTS AND FORMING OF THE 1" DIAMETER BOLT HOLES. THE CONTRACT CONTAINING THE APPROACHING GUARDRAIL SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE SPECIAL END SHOE, PLATE, NUTS, WASHERS, AND BOLTS.

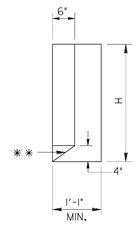
DIMENSIONS - FOR DIMENSIONS "L", "H", AND "W" AND OTHER DIMENSIONS, SEE BRIDGE PLANS.

END POST - END POST TO BE CONSTRUCTED AFTER HANDRAIL IS IN PLACE. END POST TO BE CONSTRUCTED AFTER BARRIER IS CONSTRUCTED WHEN NO HANDRAIL IS USED.



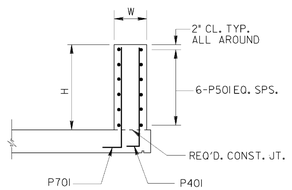
SECTION A-A
SCALE: ¾" = 1'-0"

NOTE: IF END POST IS ON SUBSTRUCTURE, SEE BRIDGE PLANS FOR BARS THAT DOWEL FROM BELOW.

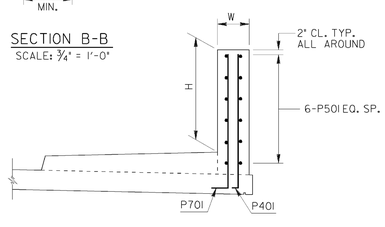


** SLOPED PORTION OF END POST TO BE POURED MONOLITHIC WITH END POST

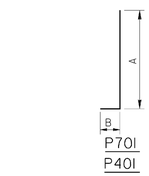
SECTION B-B
SCALE: ¾" = 1'-0"

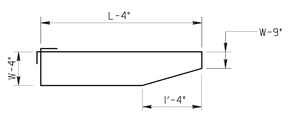


SECTION C-C
SCALE: ½" = 1'-0"



SECTION D-D
SCALE: ½" = 1'-0"





P50I

NO. BARS REQ'D		
MARK	BARRIER	SIDEWALK
P40I	7	7
P50I	6	6
P70I	7	7

FOR END POST ON SUPERSTRUCTURE:
A = H - 4" + SLAB DEPTH (FOR BARRIER)
A = H - 4" + SIDEWALK DEPTH + SLAB DEPTH (FOR SIDEWALK AND PARAPET)
B = 1'-0"

FOR END POST ON SUBSTRUCTURE:
A = H - 2"
B = 0"

NOTE: ROTATE P70I AND P40I AS NECESSARY TO MAINTAIN 2" MIN. CL. IN CONCRETE.

REV.	TRANSITION	9-30-02
BY	REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
END POST AND
END POST GUARDRAIL ATTACHMENT DETAILS

SCALE: AS SHOWN — MAY 1989

DESIGNED H.W.C.
DRAWN E.R.M.
CHECKED H.W.C.

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 3054

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

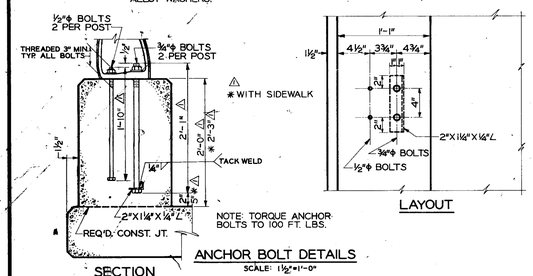
DRAWING No. 41-011

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	506	668

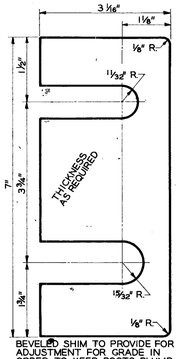
RELEASED FOR CONSTRUCTION 12/02/10

FED. ROAD DIV. No.	STATE	FED. AID PROJ. No.	STATE AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	GA.					

NOTE: ANCHOR BOLTS SHALL BE HOT DIP GALVANIZED BOLTS WITH STD. A.S.R. GALVANIZED HEX NUTS AND ALUMINUM ALLOY WASHERS.



ANCHOR BOLT DETAILS
SCALE: 1½"=1'-0"

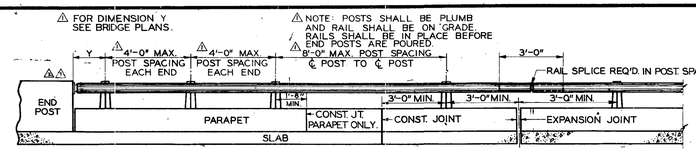


BEVELED SHIM TO PROVIDE FOR ADJUSTMENT FOR GRADE IN ORDER TO KEEP POSTS PLUMB.

SHIM DETAIL

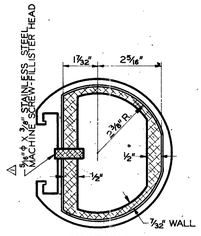
⚠ FOR DIMENSION Y SEE BRIDGE PLANS.

⚠ NOTE: POSTS SHALL BE PLUMB AND RAIL SHALL BE ON GRADE. RAILS SHALL BE IN PLACE BEFORE END POSTS ARE POURED.

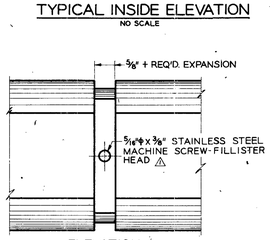


TYPICAL INSIDE ELEVATION
NO SCALE

MATERIAL SPECIFICATIONS	
ITEM	MATERIAL
⚠⚠ POSTS	ALUM. ALLOY A444-T4
⚠⚠ RAILING, CLAMP BAR, SPLICE SLEEVE AND END ATTACHMENT	A.S.T.M. B-221 ALLOY 6061, CONDITION T6
SHIM AND WASHER	A.S.T.M. B-209 SHIM, 1100-0 WASHER, ALCAD 2024-T3
ANCHOR BOLT & NUT	A.S.T.M. A-307 GALV. STEEL GALV. A-153
ANCHOR BOLT ANGLE	COMMERCIAL QUALITY
CONNECTOR BOLT	STAINLESS STEEL - A.S.T.M. A 276 TYPE 316 CONDITION A.
⚠ MACHINE SCREW	STAINLESS STEEL - A.S.T.M A276 TYPE 316 CONDITION A

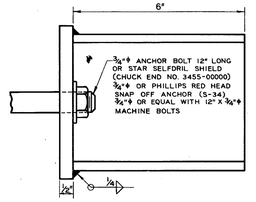


SECTION

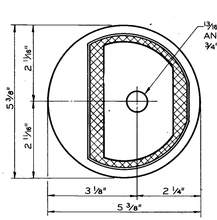


ELEVATION

RAIL SPLICE DETAILS
SCALE: 6" = 1'-0"

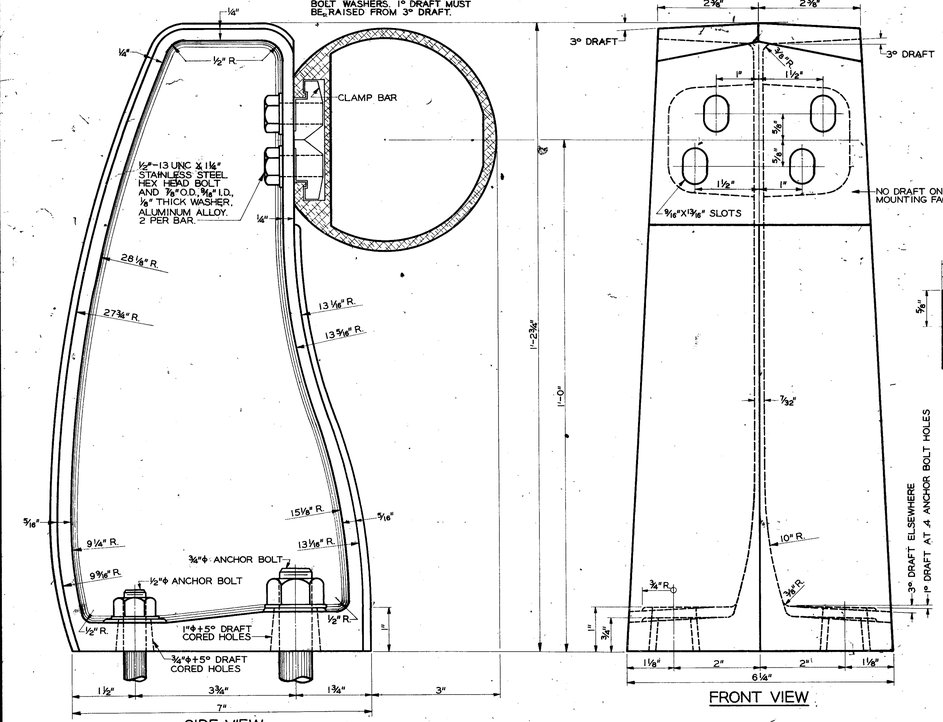


RAIL DETAIL
SCALE: 6" = 1'-0"



⚠ END RAIL DETAIL
SCALE: 6" = 1'-0"

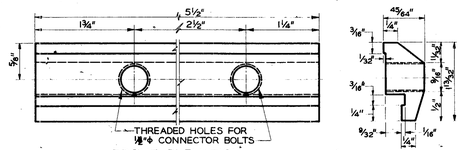
NOTE: PROVIDE 1° DRAFT LOCALLY UNDER CONNECTOR BOLT WASHERS. 1° DRAFT MUST BE RAISED FROM 3° DRAFT.



SIDE VIEW

FRONT VIEW

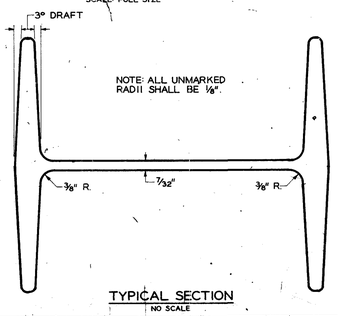
POST DETAILS



FRONT ELEVATION

END ELEVATION

CLAMP BAR DETAILS
SCALE: FULL SIZE



TYPICAL SECTION
NO SCALE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD.
RAILING SHALL CONFORM TO HORIZONTAL AND VERTICAL ALIGNMENT FOR RAILING ON A HORIZONTAL CURVE THE RAIL SHALL CONFORM TO THE CURVE.
POSTS SHALL BE VERTICAL.
COST OF ANCHOR BOLTS, CONNECTOR BOLTS, NUTS, WASHERS, CLAMP BARS, SPLICE SLEEVES AND SHIMS SHALL BE INCLUDED IN PRICE BID FOR ALUMINUM RAILING.

RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF 3 POSTS.
OUTER SURFACE OF POST FLANGES, EXCEPT BASE AND RAIL MOUNTING FACES, SHALL HAVE A NO. 36 GRIT FINISH.
1° DRAFT LOCALLY UNDER CONNECTOR BOLT HEAD MAY BE DEPRESSED PROVIDED BOLT LENGTH AND WASHER THICKNESS ARE REVISED TO FURNISH FULL ENGAGEMENT OF CLAMP BAR THREADS.

REVISIONS	BY	DATE
MAT'L. SPEC. & END ATTACH.	H.W.C.	10-22-85
MAT'L. SPEC. & CLAMP BAR	J.T.K.	7-21-65
WASHER THICKNESS - FIN.	J.T.K.	11-19-65
MAT'L. SPEC. & INSIDE ELEV.	J.T.K.	4-21-67
POST SPL. PARAPET & SLEEVE	H.W.C.	9-29-74

⚠ DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD ONE PIPE ALUMINUM HANDRAILING FOR BRIDGES

SCALE: 9"= 1'-0" UNLESS NOTED — OCTOBER 1964

DESIGNED J.T.K.
DRAWN R.M.
TRACED B.J.W.
CHECKED J.T.K.

SUBMITTED C. A. Marnlyn BRIDGE ENGINEER
APPROVED M. Linderman STATE HIGHWAY ENGINEER

NUMBER 3626

DRAWING No. 41-012

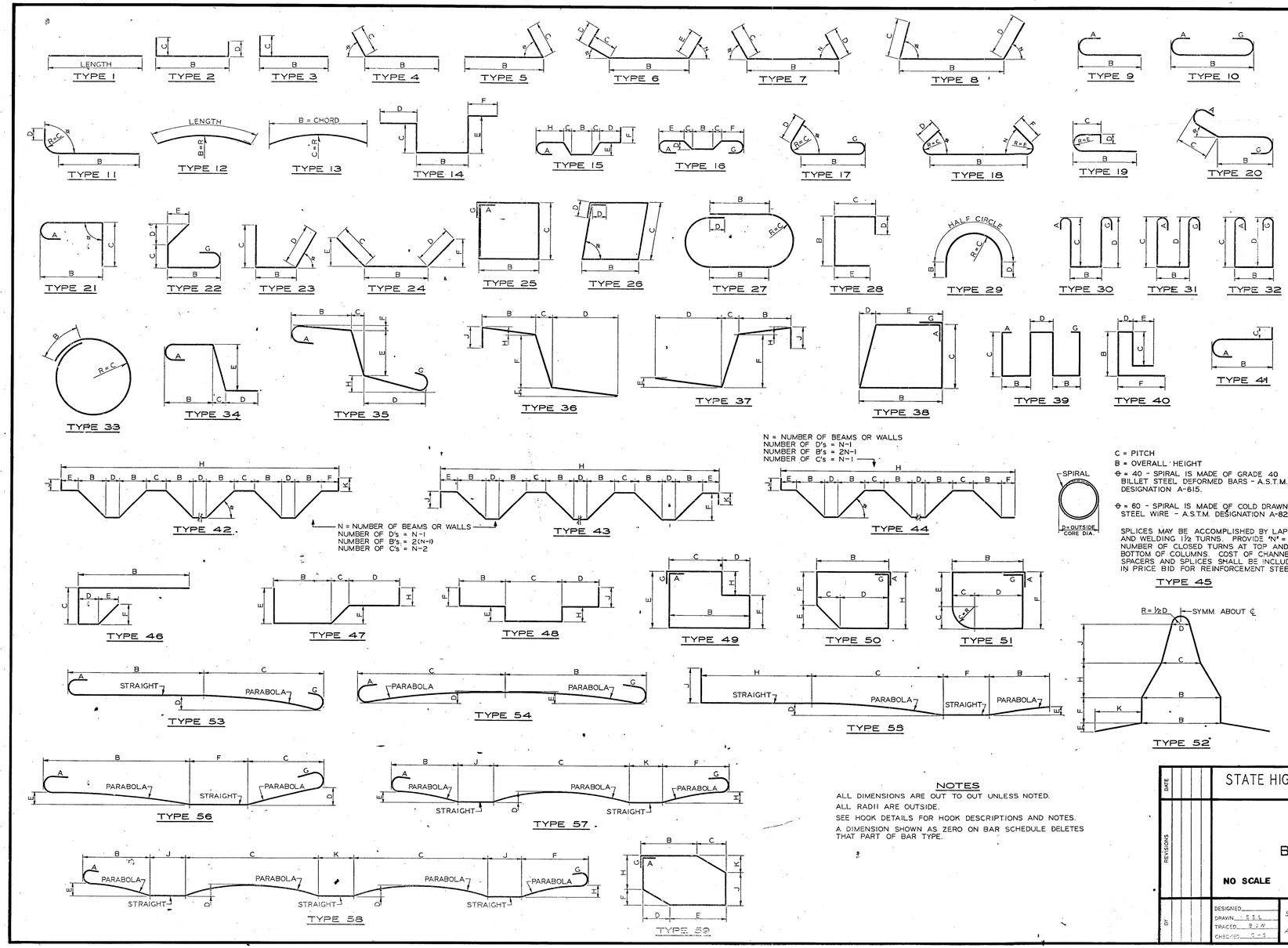
THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



N = NUMBER OF BEAMS OR WALLS
NUMBER OF D's = N-1
NUMBER OF B's = 2N-1
NUMBER OF C's = N-1

N = NUMBER OF BEAMS OR WALLS
NUMBER OF D's = N-1
NUMBER OF B's = 2(N-1)
NUMBER OF C's = N-2

C = PITCH
B = OVERALL HEIGHT
Φ = 40 - SPIRAL IS MADE OF GRADE 40 BILLET STEEL DEFORMED BARS - A.S.T.M. DESIGNATION A-615.
Φ = 60 - SPIRAL IS MADE OF COLD DRAWN STEEL WIRE - A.S.T.M. DESIGNATION A-82.

SPLICES MAY BE ACCOMPLISHED BY LAPPING AND WELDING 1½ TURNS. PROVIDE 'N' + TOTAL NUMBER OF CLOSED TURNS AT TOP AND BOTTOM OF COLUMNS. COST OF CHANNEL SPACERS AND SPLICES SHALL BE INCLUDED IN PRICE BID FOR REINFORCEMENT STEEL.

FED ROAD DIV. NO.	STATE	FED AID PROJ. NO.	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3 -	GA.					

HOOK DETAILS

RECOMMENDED 180° HOOKS
GRADE 40 ksi
D = 5d for #3 through #11
D = 10d for #14 and #18
GRADES 50-60-75 ksi
D = 6d for #3 through # 8
D = 8d for #9, #10, and #11
D = 10d for # 14 and #18

DETAILING DIMENSION — HOOK A or G

RECOMMENDED 180° END HOOK DIMENSIONS

BAR SIZE	GRADES 50-60-75 ksi A or G	GRADES 50-60-75 ksi J	GRADE 40 ksi A or G	GRADE 40 ksi J
#3	5	3	5	2¾
#4	6	4	6	3½
#5	7	5	7	4½
#6	8	6	8	5¼
#7	10	7	9	6¼
#8	11	8	10	7
#9	1-3	1 1¼	1-0	8
#10	1-5	1-0¾	1-1	9
#11	1-7	1-2¼	1-2	10
#14	2-2	1-8½	2-2	1-8½
#18	2-11	2-3	2-11	2-3
STYLE	1		2	

RECOMMENDED 90° END HOOK DIMENSIONS
ALL GRADES
D = 6d for #3 through #8
D = 8d for #9, #10, and #11
D = 10d for #14 and #18

DETAILING DIMENSION

BAR SIZE	HOOK A or G
#3	6
#4	8
#5	10
#6	1-0
#7	1-2
#8	1-4
#9	1-7
#10	1-10
#11	2-0
#14	2-7
#18	3-5
HOOK STYLE 3	

STIRRUP AND TIE HOOK

DETAILING DIMENSION — HOOK A or G

STIRRUPS
(TIES SIMILAR)

STIRRUP AND TIE HOOK DIMENSIONS
GRADES 40-50-60 ksi

BAR SIZE	D (in.)	90° HOOK A or G	135° HOOK A or G	135° HOOK N Approx.
#3	1⅞	4	4	2⅞
#4	2	4½	4½	3⅛
#5	2⅜	6	5½	3⅞
#6	3	6½	6½	4½
STYLE		4	5	

STYLE 6 = NO HOOK

HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY. ACTUAL HOOK STYLE FOR ANY PARTICULAR BAR WILL BE SHOWN UNDER A or G HEADING ON BAR SCHEDULE.

NOTES

ALL DIMENSIONS ARE OUT TO OUT UNLESS NOTED.
ALL RADII ARE OUTSIDE.
SEE HOOK DETAILS FOR HOOK DESCRIPTIONS AND NOTES.
A DIMENSION SHOWN AS ZERO ON BAR SCHEDULE DELETES THAT PART OF BAR TYPE.

STATE HIGHWAY DEPARTMENT OF GEORGIA
BRIDGE DIVISION

STANDARD

BAR BENDING DETAILS

NO SCALE — AUGUST 1969

DESIGNED
DRAWN E.S.L.
TRACED B.J.W.
CHECKED C.C.S.

SUBMITTED R.L. Chapman Jr. BRIDGE ENGINEER
APPROVED STATE HIGHWAY ENGINEER

NUMBER 3901

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-013

3/1/2007 GPLN

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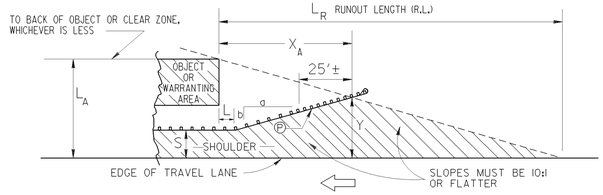
RELEASED FOR CONSTRUCTION 12/02/10

GUARDRAIL LENGTHS OF ADVANCEMENT AT FIXED OBJECTS OR AT WARRANTING FILL SLOPES TYPICAL

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

(FLARED)



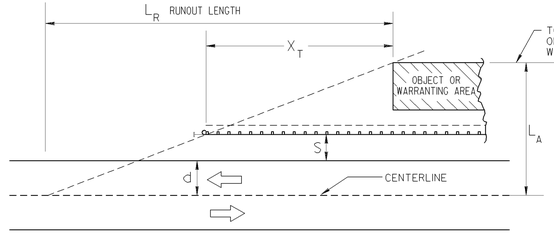
S = USUABLE SHOULDER WIDTH PLUS 2 FT. (TYP.)

$$X_A = \frac{L_A + (b/a)L - S}{b/a + (L_A/L_R)}$$

$$Y = L_A - \frac{L_A}{L_R}(X_A)$$

DESIGN SPEED (MPH)	FLARE RATE a:b
70	15:1
60	14:1
55	12:1
50	11:1
45	10:1
40	8:1
30	7:1

(STANDARD)

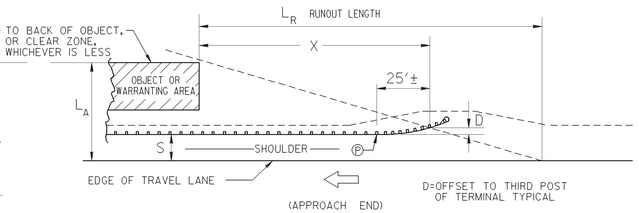


DESIGN SPEED (MPH)	L_R Runout Length in feet			
	OVER 6000 (A,D,T,)	2000-6000 (A,D,T,)	800-2000 (A,D,T,)	UNDER 800 (A,D,T,)
70	475	445	395	360
60	425	400	345	330
55	360	345	315	280
50	330	300	260	245
45	260	245	215	200
40	230	200	180	165
30	165	165	150	130

$$X_T = L_R \times \frac{L_A - (S+d)}{L_A}$$

(TRAILING END)

S = USUABLE SHOULDER WIDTH PLUS 2 FT. (TYP.)

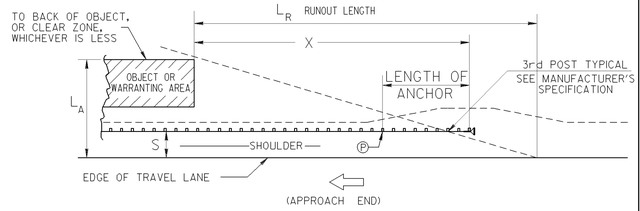


D=OFFSET TO THIRD POST OF TERMINAL TYPICAL

Ⓟ = POINT OF BEGINNING TERMINAL (TYP.)

$$X = L_R \times \frac{L_A - (S+D)}{L_A}$$

D=FLARE OF TERMINAL
D=0 FOR NON-FLARED TERMINALS



CLEAR ZONE DISTANCES

CLEAR ZONE DISTANCES (FT) CHART

DESIGN SPEED	DESIGN ADT	FORESLOPES			BACKSLOPES		
		1V:6H OR FLATTER	1V:5H TO 1V:4H	1V:3H	1V:3H	1V:5H TO 1V:4H	1V:6H OR FLATTER
40 M.P.H. OR LESS	UNDER 750	7-10	7-10	* *	7-10	7-10	7-10
	750-1500	10-12	12-14	* *	10-12	10-12	10-12
	1500-6000	12-14	14-16	* *	12-14	12-14	12-14
	OVER 6000	14-16	16-18	* *	14-16	14-16	14-16
45-50 M.P.H.	UNDER 750	10-12	12-14	* *	8-10	8-10	10-12
	750-1500	14-16	16-20	* *	10-12	12-14	14-16
	1500-6000	16-18	20-26	* *	12-14	14-16	16-18
	OVER 6000	20-22	24-28	* *	14-16	18-20	20-22
55 M.P.H.	UNDER 750	12-14	14-18	* *	8-10	10-12	10-12
	750-1500	16-18	20-24	* *	10-12	14-16	16-18
	1500-6000	20-22	24-30	* *	14-16	16-18	20-22
	OVER 6000	22-24	26-32*	* *	16-18	20-22	22-24
60 M.P.H.	UNDER 750	16-18	20-24	* *	10-12	12-14	14-16
	750-1500	20-24	26-32*	* *	12-14	16-18	20-22
	1500-6000	26-30	32-40*	* *	14-18	18-22	24-26
	OVER 6000	30-32*	36-44*	* *	20-22	24-26	26-28
65-70 M.P.H.	UNDER 750	18-20	20-26	* *	10-12	14-16	14-16
	750-1500	24-26	28-36*	* *	12-16	18-20	20-22
	1500-6000	28-32*	34-42*	* *	16-20	22-24	26-28
	OVER 6000	30-34*	38-46*	* *	22-24	26-30	28-30

* WHERE A SITE SPECIFIC INVESTIGATION INDICATES A HIGH PROBABILITY OF CONTINUING CRASHES, OR SUCH OCCURRENCES ARE INDICATED BY CRASH HISTORY, THE DESIGNER MAY PROVIDE CLEAR-ZONE DISTANCES GREATER THAN THE CLEAR-ZONE SHOWN ABOVE. CLEAR ZONES MAY BE LIMIT TO 30 FT. FOR PRACTICALITY AND TO PROVIDE A CONSISTENT ROADWAY TEMPLETE IF PREVIOUS EXPERIENCE WITH SIMILAR PROJECTS OR DESIGNS INDICATES SATISFACTORY PERFORMANCE.

* * SINCE RECOVERY IS LESS LIKELY ON THE UNSHIELDED, TRAVERSABLE 1V:3H SLOPES, FIXED OBJECTS SHOULD NOT BE PRESENT IN THE VICINITY OF THE TOE OF THESE SLOPES. RECOVERY OF HIGH-SPEED VEHICLES THAT ENCROACH BEYOND THE EDGE OF THE SHOULDER MAY BE EXPECTED TO OCCUR BEYOND THE TOE OF SLOPE. DETERMINATION OF THE WIDTH OF RECOVERY AREA AT THE TOE OF SLOPE SHOULD TAKE INTO CONSIDERATION RIGHT-OF-WAY AVAILABILITY, ENVIRONMENTAL CONCERNS, ECONOMIC FACTORS, SAFETY NEEDS AND CRASH HISTORIES. ALSO, THE DISTANCE BETWEEN THE EDGE OF THE THROUGH TRAVELED LANE AND THE BEGINNING OF THE 1V:3H SLOPE SHOULD INFLUENCE THE RECOVERY AREA PROVIDED AT THE TOE OF THE SLOPE.

HORIZONTAL CURVE ADJUSTMENTS

RADIUS (FEET)	K_{CZ} (CURVE CORRECTION FACTOR) DESIGN SPEED (MPH)						
	40	45	50	55	60	65	70
2860	1.1	1.1	1.1	1.2	1.2	1.2	1.3
2290	1.1	1.1	1.2	1.2	1.2	1.3	1.3
1910	1.1	1.2	1.2	1.2	1.3	1.3	1.4
1640	1.1	1.2	1.2	1.3	1.3	1.4	1.5
1430	1.2	1.2	1.3	1.3	1.4	1.4	
1270	1.2	1.2	1.3	1.3	1.4	1.5	
1150	1.2	1.2	1.3	1.4	1.5		
950	1.2	1.3	1.4	1.5	1.5		
820	1.3	1.3	1.4	1.5			
720	1.3	1.4	1.5				
640	1.3	1.4	1.5				
570	1.4	1.5					
380	1.5						

$CZ_C = (L_C)(K_{CZ})$

Where:

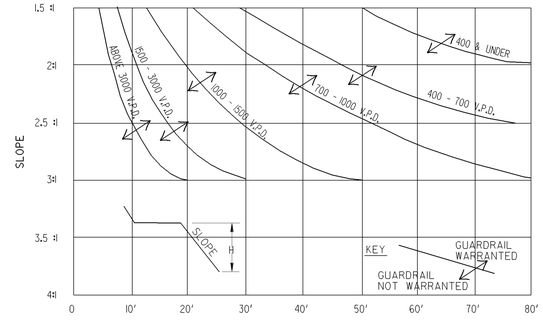
CZ_C = CLEAR ZONE ON OUTSIDE OF CURVATURE, FEET

L_C = CLEAR ZONES ON TANGENTS, FEET (SEE CHART AT LEFT)

K_{CZ} = CURVE CORRECTION FACTOR

NOTE:
THE CURVE CORRECTION FACTOR IS APPLIED TO THE OUTSIDE OF CURVES ONLY. CURVES FLATTER THAN 2860 FEET DO NOT REQUIRE AN ADJUSTED CLEAR ZONE.

FILL HEIGHT / SLOPE WARRANTS



H = FILL HEIGHT (FT.)

NOTE:
FILL HEIGHT/SLOPE EXTRAPOLATIONS WHICH FALL ABOVE AND TO THE RIGHT OF CURVE INDICATES GUARDRAIL IS WARRANTED FOR THE FILL EMBANKMENT.

REVISED GUARDRAIL AND CLEAR ZONE REVISION	BY	G.I.O.	DATE
			9-4-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL WARRANT GUIDES
LENGTHS OF ADVANCEMENT
CLEAR ZONE DISTANCES
FILL HEIGHT EMBANKMENTS

NOT TO SCALE DEC., 1999

DES. ____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
DRW. ____
TRA. ____ (APPROVED) CHIEF ENGINEER
CHK. ____

NUMBER 4000W

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

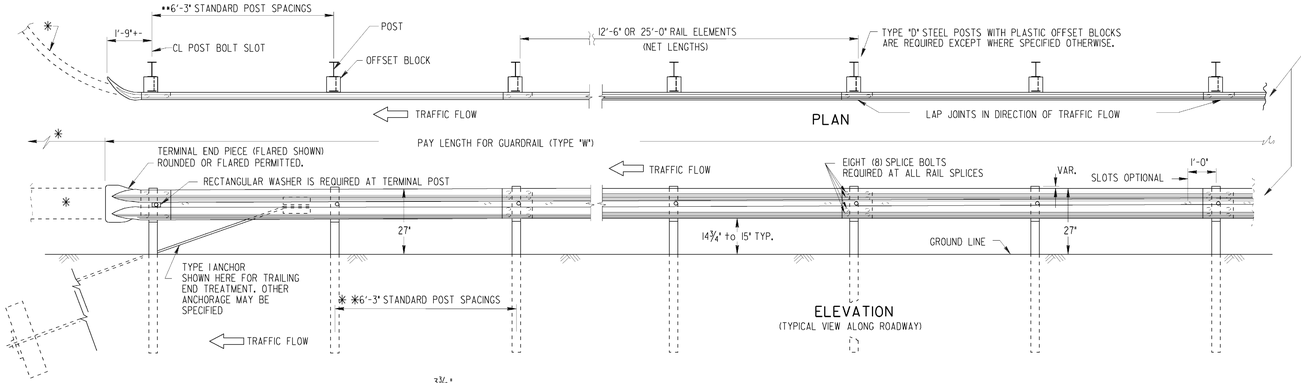
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-014

RELEASED FOR CONSTRUCTION 12/02/10

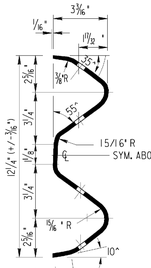
9/3/2024 8:37:23 AM \\GDOT-DSNI\GOPLOT\GCF\GO_TIFF_OUTPUT.GCF GOWENS,M\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\4010.PRF GO-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

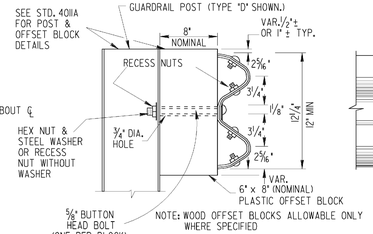


NOTE:
* A PRECURVED GUARDRAIL SECTION WILL BE REQUIRED WHERE TYPE I ANCHORAGE IS PERMITTED AT GUARDRAIL TERMINAL IF TRAFFIC FLOW IS TWO-WAY. SEE APPLICABLE STANDARDS.

** REDUCED POST SPACINGS WILL BE REQUIRED AT TURNOUTS AROUND RADII, AT REDUCED OFFSETS TO FACE OF FIXED OBJECTS OR AT OTHER SPECIFIED LOCATIONS. SEE PLAN DETAILS OR APPLICABLE STANDARDS. PAYMENT FOR GUARDRAIL WILL INCLUDE THE ADDITIONAL POSTS REQUIRED.

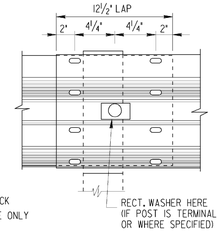


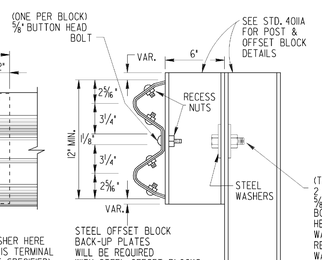
SECTION THROUGH RAIL ELEMENT



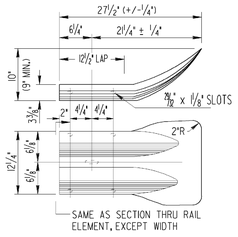
"W" BEAM SPLICE AT POST

NOTE: OFFSET BLOCKS FOR "W" BEAM GUARDRAIL WILL BE PLASTIC EXCEPT WHERE SPECIFIED OTHERWISE.

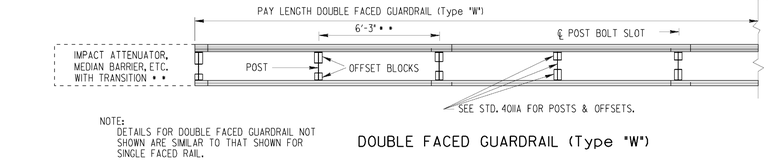




NOTE: STEEL OFFSET BLOCKS ARE NOT PERMITTED ON NEW INSTALLATIONS.

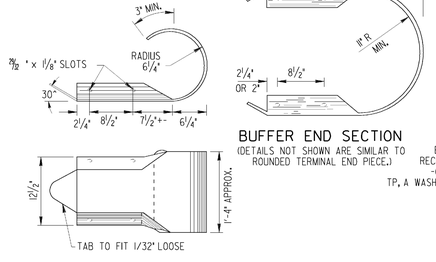


TERMINAL END PIECE (FLARED)

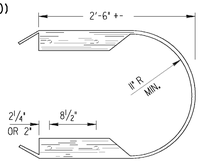


NOTE:
DETAILS FOR DOUBLE FACED GUARDRAIL NOT SHOWN ARE SIMILAR TO THAT SHOWN FOR SINGLE FACED RAIL.

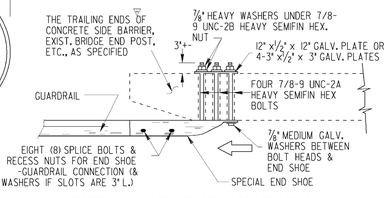
DOUBLE FACED GUARDRAIL (Type "W")



TERMINAL END PIECE (ROUNDED)



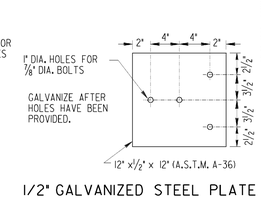
BUFFER END SECTION
(DETAILS NOT SHOWN ARE SIMILAR TO ROUNDED TERMINAL END PIECE.)



TYPICAL END SHOE CONNECTION

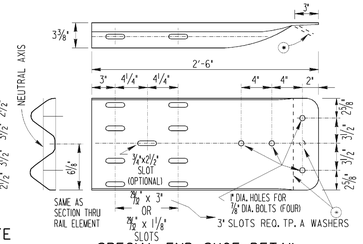
NOTE: THE "W" BEAM RAIL ELEMENT/END SHOE SPLICE SHALL BE LAPPED IN THE DIRECTION OF THE NEAREST TRAFFIC.

▽ "W" BEAM END CONNECTIONS ARE NOT PERMITTED AT APPROACHES TO CONCRETE STRUCTURES. SEE SEPARATE STANDARDS FOR REQUIRED "T" BEAM CONNECTIONS.



1/2" GALVANIZED STEEL PLATE

(TO BE USED WITH SPECIAL END SHOE CONNECTION UNDER NUTS & WASHERS ON BACK OF BRIDGE END POST OR BACK OF CONCRETE SIDE BARRIER) (FOUR 3" x 1½" x 3" GALV. PLATES WITH 1" DIA. HOLE CENTERED, MAY BE USED AS AN ALTERNATE)



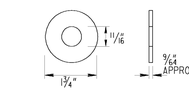
SPECIAL END SHOE DETAIL

(FOR USE IN CONNECTING GUARDRAIL TO BRIDGE END POST, CONCRETE BARRIERS, ETC.)

⊙ APPLIES ONLY TO END SHOE WITH BUFFERED END ASSEMBLY OF ANCHORAGE.

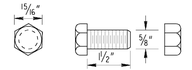
TYPE A WASHER (GALV.)

IF SLOTS IN SPECIAL END SHOE ARE 3" LONG TP. A WASHERS ARE REQ'D UNDER SPLICE BOLT HEADS & UNDER NUTS WITH 2" LONG SPLICE BOLTS. IF END SHOE SLOTS ARE 1⅛" LONG, USE NORMAL SPLICE CONNECTIONS



STEEL WASHER (GALV.)

(REQ'D. UNDER ⅝" HEX BOLT HEADS, UNDER HEX NUTS AND AS SPECIFIED)



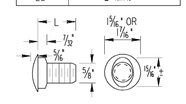
⅝" DIA. HEX BOLT & HEX NUT

(TO BE USED ONLY FOR ATTACHING STEEL OFFSET BLOCKS TO STEEL POST)

SPECIAL NOTE:
ALL GUARDRAIL SPLICES WILL BE PROPERLY SECURED WITH EIGHT SPLICE BOLT CONNECTIONS. ALL NUTS WILL BE TIGHTENED. LOOSE NUTS, OMITTED BOLTS, OR OMITTED NUTS WILL BE CAUSE FOR REJECTION.

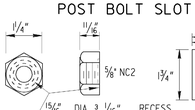
GUARDRAIL NOT ERECTED AT A 27" TOP OF RAIL HEIGHT MAY BE CAUSE FOR REJECTION.

L	THREAD LENGTH
1¼"	FULL LENGTH
2"	1½" MIN.
9½"	1¾" MIN.
18"	2½" MIN.
25"	2" MIN.



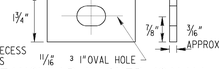
BUTTON HEAD (OR SPLICE) BOLT

(8 REQ'D PER SPLICE)



POST BOLT SLOT SPLICE BOLT SLOT

RECESS NUT



RECTANGULAR WASHER (GALV.)

(FOR USE AT TERMINAL POST OR WHERE SPECIFIED)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT ARTBA TECHNICAL BULLETIN NO. 268 -- UNLESS SPECIFIED OTHERWISE. DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA. STANDARD 4011A.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
4. FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
5. ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
6. WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150', PRECURVED RAIL WILL BE REQUIRED.
7. PAYMENT FOR GUARDRAIL (Type "W") TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

NOTE:
UNLESS SPECIFIED OTHERWISE, ALL REFERENCES TO GUARDRAIL ON STANDARDS AND/OR CONSTRUCTION DETAILS WILL MEAN "W" BEAM GUARDRAIL AS SHOWN ON THIS STANDARD.

SPECIAL END SHOE WILL BE 10 GAUGE STEEL GALVANIZED ACCORDING TO A.A.S.H.T.O. M-111

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

"W" BEAM GUARDRAIL

DATE | REVISION

NO SCALE REV. & REDR. MAY, 1999

DES. | DETRACED | CHK. | BY

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) CHIEF ENGINEER

NUMBER 4010

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

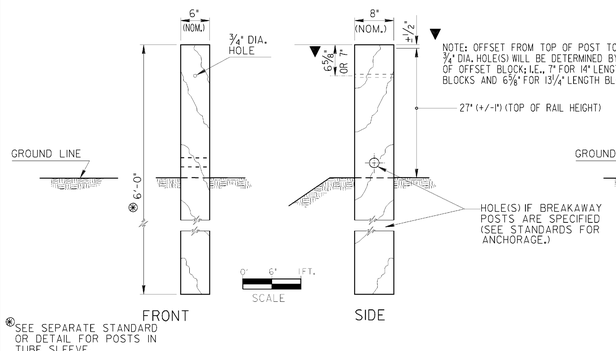
DRAWING No. 41-015

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

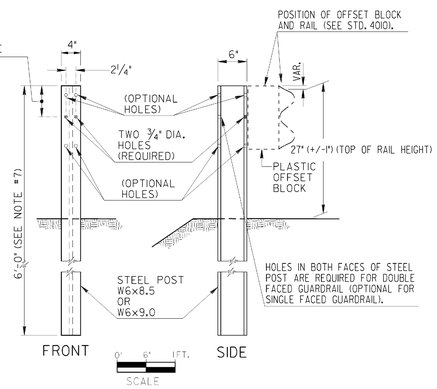
TYPE A WOOD POST (FOR "W" BEAM GUARDRAIL)

NOTE: WOOD POST ARE ALLOWABLE ONLY WHERE SPECIFIED.

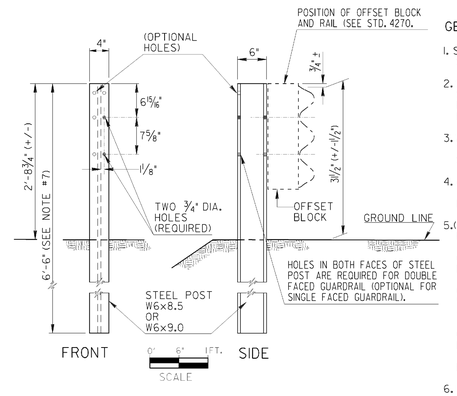


◉SEE SEPARATE STANDARD OR DETAIL FOR POSTS IN TUBE SLEEVE.

TYPE D STEEL POST (FOR "W" BEAM GUARDRAIL)



TYPE D-T STEEL POST (FOR "T" BEAM GUARDRAIL)



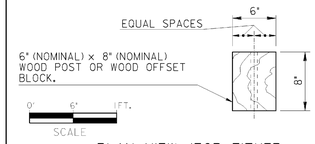
GENERAL NOTES:

1. SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO.
2. STEEL POSTS MAY BE EITHER ROLLED OR WELDED STRUCTURAL SHAPES. STEEL OFFSET BLOCKS SHALL BE ROLLED. WELDED POSTS SHALL BE SEAL WELDED BETWEEN WEB AND FLANGE BEFORE GALVANIZING.
3. WHERE WOOD POST OR WOOD OFFSET BLOCKS ARE PERMITTED, THE WOOD SHALL BE TREATED IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS.
4. ALL BOLTS USED FOR FASTENING THE RAIL AND OFFSET BLOCKS TO WOOD POSTS SHALL HAVE SUFFICIENT LENGTH TO EXTEND AT LEAST ¼" BEYOND THE FULL NUT, UP TO 3" BEYOND.
5. (a) "W" BEAM GUARDRAIL: ALL OFFSET BLOCKS SHALL BE 8" DEPTH PLASTIC BLOCKS EXCEPT FOR (d) BELOW.

   (b) "T" BEAM GUARDRAIL: STANDARD INSTALLATION WILL USE 8" DEPTH PLASTIC BLOCKS UNLESS OTHERWISE APPROVED.

   (c) (3¾" DEPTH MODIFIED STEEL OFFSETS MAY BE SPECIFIED WHERE JUSTIFIED FOR MORE SEVERE CONDITIONS. PAY ITEM IS --GUARDRAIL, TP T, MODIFIED OFFSET BLOCK---PER LIN. FT.

   (d) WOOD OFFSET BLOCKS MAY BE USED ONLY AT AN ISOLATED LOCATION WITHIN A RUN OF GUARDRAIL, WHERE OTHER BLOCK TYPES WOULD NOT PROVIDE PROPER FIT, AS DETERMINED BY THE ENGINEER OR SHOWN IN THE PLANS.
6. POSTS WILL BE SPACED AT 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
7. ADDITIONAL LENGTH POSTS, WHERE SPECIFIED, SHALL BE 7'-0" AND 7'-6" LONG FOR "W" BEAM AND "T" BEAM GUARDRAILS RESPECTIVELY, WITH HOLES DIMENSIONED FROM THE POST-TOP THE SAME AS SHOWN.



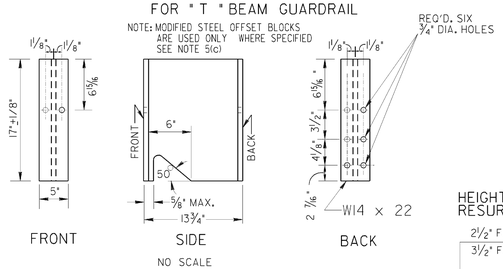
PLAN VIEW (FOR EITHER "W" BEAM OR "T" BEAM POST OR BLOCK)

WOOD POSTS AND WOOD OFFSET BLOCKS MAY BE ROUGH OR SURFACED.

DIMENSIONS FOR WOOD POSTS AND WOOD OFFSET BLOCKS ARE NOMINAL IN ACCORDANCE WITH ACCEPTED LUMBER INDUSTRY STANDARDS.

MODIFIED STEEL OFFSET BLOCK FOR "T" BEAM GUARDRAIL

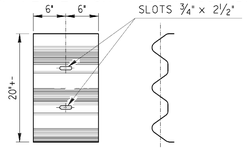
NOTE: MODIFIED STEEL OFFSET BLOCKS ARE USED ONLY WHERE SPECIFIED SEE NOTE 5(c)



NO SCALE

BACK-UP PLATE (FOR "T" BEAM GUARDRAIL)

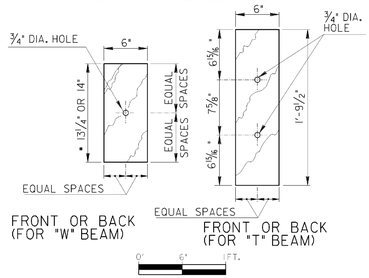
NOTE: BACK-UP PLATES ARE REQUIRED WITH ALL STEEL OFFSET BLOCKS EXCEPT AT RAIL SPLICES OR WHERE ONE RAIL SECTION IS NESTED INSIDE ANOTHER RAIL SECTION. BACK-UP PLATE WILL BE LOCATED BACK OF RAIL ADJACENT TO OFFSET BLOCKS (INSIDE MAIN RAIL).



SAME AS SECTION THROUGH RAIL (STANDARD 4270)

NOTE: WHERE WOOD OFFSET BLOCK ON STEEL POST IS PERMITTED IN "W" BEAM INSTALLATION, A NAIL OR SCREW FROM POST TO WOOD IS REQUIRED TO PREVENT ROTATION OF THE BLOCK.

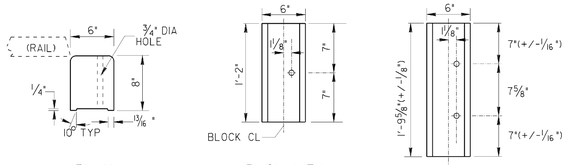
WOOD OFFSET BLOCKS
(WHERE PERMITTED, SEE NOTE 5(d))



(PLAN VIEW IS SAME AS SHOWN FOR WOOD POST ABOVE)

STANDARD PLASTIC OFFSET BLOCKS

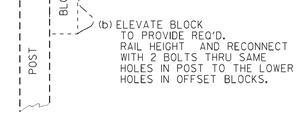
NOTE: PLASTIC OFFSET BLOCKS SHALL BE OF TYPE LISTED IN GA. DOT QPL OF APPROVED PRODUCTS OR PER STANDARD SPECIFICATIONS.



NOTE: DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES.

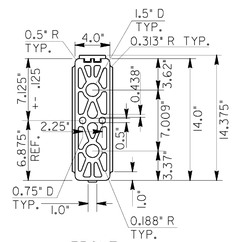
NO SCALE

HEIGHT CORRECTION IF NEEDED FOR RESURFACED PROJECTS



CONCRETE FOUNDATION FOR POST IN SHALLOW FILLS OVER CULVERTS OR OTHER OBSTRUCTIONS

(NOTE: PLATE MOUNTED POST MAY BE USED AS AN ALTERNATE, SEE SEPARATE SHEET).



COMPOSITE OFFSET BLOCKS (FOR "W" BEAM)

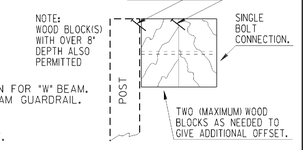
NO SCALE

NOTE: 1. COMPOSITE OFFSET BLOCKS SHALL BE OF TYPE LISTED IN GA. D.O.T. QPL OF APPROVED PRODUCTS OR PER STANDARD SPECIFICATIONS.

2. UNIFORM WALL THICKNESS OF 0.375".

3. UNSPECIFIED CORNERS TO BE 0.050" MIN.

4. UNSPECIFIED TOLERANCES TO BE 0.050".

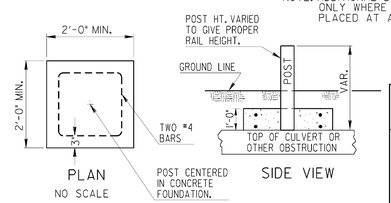


NOTE: ADDITIONAL DEPTH OFFSETS BELOW ARE SHOWN FOR "W" BEAM. SIMILAR OFFSETS MAY BE APPLIED FOR "T" BEAM GUARDRAIL.

NOTE: ADDITIONAL DEPTH OFFSETS ARE PERMITTED ONLY WHERE AN ISOLATED POST MUST BE PLACED AT A GREATER THAN NORMAL OFFSET.

NOTE: FOR BLOCK CONNECTION TO POST AND TO RAIL SEE STD. 4010(OR 4270).

ADDITIONAL DEPTH OFFSET BLOCKOUTS
(FOR USE WHERE GREATER THAN STANDARD OFFSET IS SPECIFIED)



NO SCALE

STEEL POST TO BE PLUMBED AND FOUNDATION CONCRETE POURED AROUND POST TO FINISHED ELEVATION.

PAYMENT FOR GUARDRAIL TO INCLUDE ALL EXTRA WORK AND MATERIALS INCLUDING CONCRETE (CL. A OR CL. B) AND NO. 4 BARS.

IF OFFSET FROM RAIL FACE TO HEADWALL IS LESS THAN 4'-3", POST SPACINGS ARE REDUCED TO 3'-1½" C.C. ACROSS THE CULVERT WITH 7 SUCH SPACINGS IN ADVANCE AT NO ADDITIONAL PAYMENT.

BY	REVISION	DATE
	ADDED COMPOSITE BLOCK	12-18-01
	REV. OFFSET BLK., RAIL HT.	12-27-00

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD POSTS AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL
(REPLACES STANDARDS 4011 & 4271)

SCALE: AS SHOWN — REVISED & REDRAWN DEC., 1999

(SUBMITTED) James A. Kennedy — STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) Genie L. Buckley — CHIEF ENGINEER

NUMBER 4011A

4/18/02 2:31:11 PM \\GDOT-DSN\GPLOT\OCFYa-TTF_Output.ocf darbya M:\standard\English\4011a.prf

4/18/05 2:31:11 PM \\GDOT-DSN\GPLOT\OCFYa-TTF_Output.ocf darbya M:\standard\English\4011a.prf

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-016

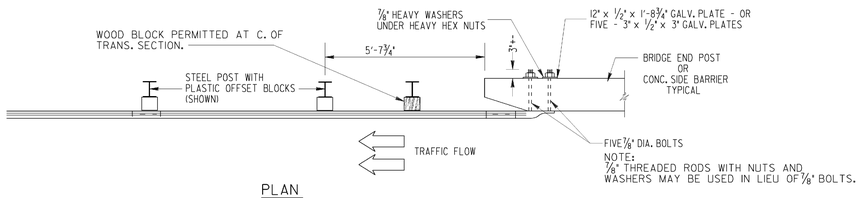
8/26/2005 2:56:36 PM \\GDOT-DSN1\GDPLOT\QCF\go_1ff_output.qcf gowens W:\GARY\Revised 4012C\4012C.prf 00-R06

RELEASED FOR CONSTRUCTION 12/02/10

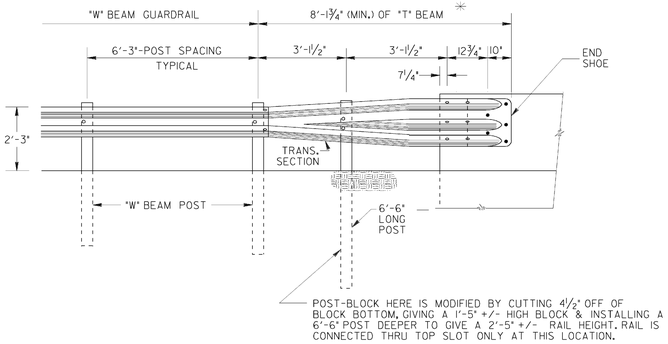
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GUARDRAIL CONNECTION AT TRAILING ENDS

(SEE NOTE AT BOTTOM LEFT)



PLAN



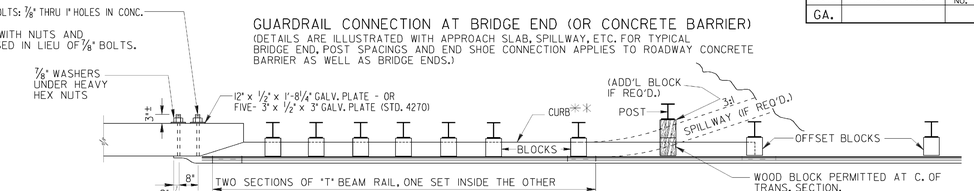
ELEVATION

NOTE:
DETAILS AT TOP LEFT ARE APPLICABLE FOR CONNECTIONS AT THE TRAILING ENDS OF ONE-WAY TRAFFIC OR AT THE TRAILING END OF MULTI-LANE (4 OR MORE) FACILITIES.

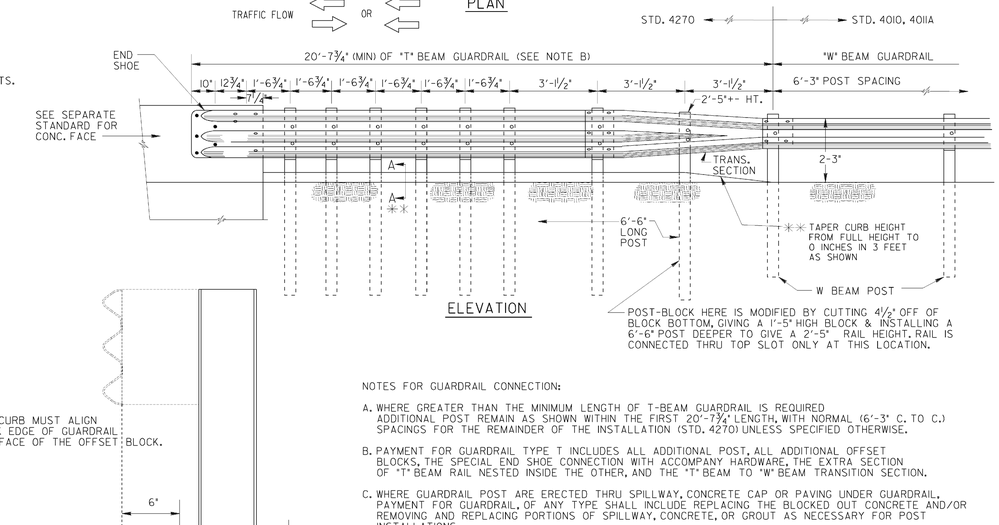
NOTE:
DETAILS AT TOP RIGHT ARE APPLICABLE FOR CONNECTIONS AT THE APPROACH ENDS OF BRIDGES OR CONCRETE SIDE BARRIERS OR AT ALL FOUR ENDS FOR TWO-LANE, TWO WAY TRAFFIC.

GUARDRAIL CONNECTION AT BRIDGE END (OR CONCRETE BARRIER)

(DETAILS ARE ILLUSTRATED WITH APPROACH SLAB, SPILLWAY, ETC. FOR TYPICAL BRIDGE END, POST SPACINGS AND END SHOE CONNECTION APPLIES TO ROADWAY CONCRETE BARRIER AS WELL AS BRIDGE ENDS.)



PLAN



ELEVATION

SECTION A-A**

NOTES FOR GUARDRAIL CONNECTION:

A. WHERE GREATER THAN THE MINIMUM LENGTH OF T-BEAM GUARDRAIL IS REQUIRED ADDITIONAL POST REMAIN AS SHOWN WITHIN THE FIRST 20'-7 3/4" LENGTH, WITH NORMAL (6'-3" C. TO C.) SPACINGS FOR THE REMAINDER OF THE INSTALLATION (STD. 4270) UNLESS SPECIFIED OTHERWISE.

B. PAYMENT FOR GUARDRAIL TYPE T INCLUDES ALL ADDITIONAL POST, ALL ADDITIONAL OFFSET BLOCKS, THE SPECIAL END SHOE CONNECTION WITH ACCOMPANY HARDWARE, THE EXTRA SECTION OF "T" BEAM RAIL NESTED INSIDE THE OTHER, AND THE "T" BEAM TO "W" BEAM TRANSITION SECTION.

C. WHERE GUARDRAIL POST ARE ERECTED THRU SPILLWAY, CONCRETE CAP OR PAVING UNDER GUARDRAIL, PAYMENT FOR GUARDRAIL, OF ANY TYPE SHALL INCLUDE REPLACING THE BLOCKED OUT CONCRETE AND/OR REMOVING AND REPLACING PORTIONS OF SPILLWAY, CONCRETE, OR GROUT AS NECESSARY FOR POST INSTALLATIONS.

**FOR CURB DETAILS ASSOCIATED WITH APPROACH SLAB, SEE APPROACH SLAB STANDARD. FOR GUARDRAIL INSTALLATION LOCATIONS WHERE AN APPROACH SLAB IS NOT USED, PROVIDE A CONCRETE CURB IN ACCORDANCE WITH SECTION 'A-A'. CONCRETE CURB SHALL BE PAID FOR PER LINEAR FOOT.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, OFFSET BLOCKS, END SHOE, TRANSITION SECTION, ETC., SEE SEPARATE STANDARDS AS APPLICABLE.
3. GUARDRAIL INSTALLATIONS, INCLUDING ANCHORAGES AND CONNECTIONS, ARE TO BE COMPLETED BEFORE BEING SUBJECT TO TRAFFIC UNLESS OTHERWISE APPROVED.
4. OFFSET BLOCKS SHALL BE PLASTIC UNLESS SPECIFIED OTHERWISE. OFFSET BLOCKS ARE REQUIRED AT ALL POSTS.
5. THE COST FOR DRILLING HOLES FOR THE END SHOE CONNECTION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE GUARDRAIL.

NOTE: POST SPACINGS SHOWN ARE TYPICAL AVERAGE WITH NORMAL CONSTRUCTION TOLERANCES ALLOWED.

BY	REVISION	DATE
C.O	DELETED AND ADDED NOTES	3-16-05
	REV. ELEV. VIEW OF GUARDRAIL CONNECTION AT BRIDGE END.	3-26-03
MDR	REV. CRB & SPLWAY LOC.	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL CONNECTION AT BRIDGE END OR AT CONCRETE BARRIER END

NO SCALE — REDRAWN NOV., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 4012-C

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-017

3/1/2007 GPLN

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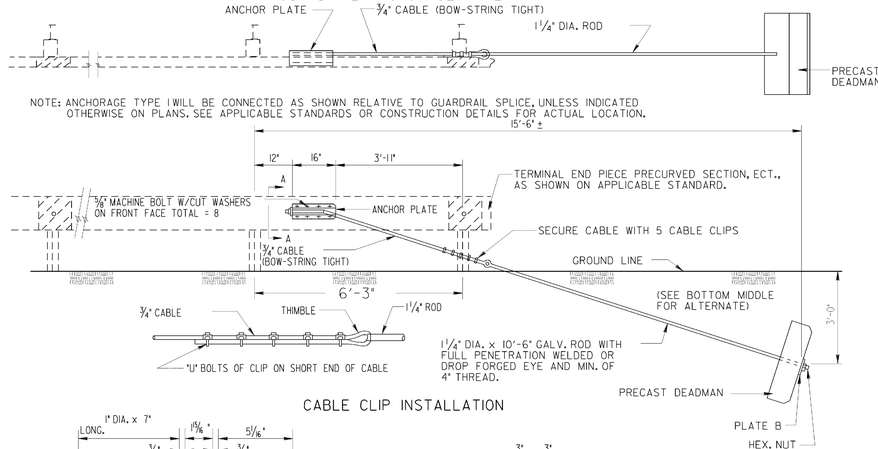
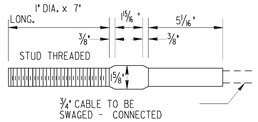
RELEASED FOR CONSTRUCTION 12/02/10

GUARDRAIL ANCHORAGE TYPE I

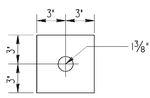


NOTE: ANCHORAGE TYPE I WILL BE CONNECTED AS SHOWN RELATIVE TO GUARDRAIL SPLICE, UNLESS INDICATED OTHERWISE ON PLANS. SEE APPLICABLE STANDARDS OR CONSTRUCTION DETAILS FOR ACTUAL LOCATION.

CABLE CLIP INSTALLATION

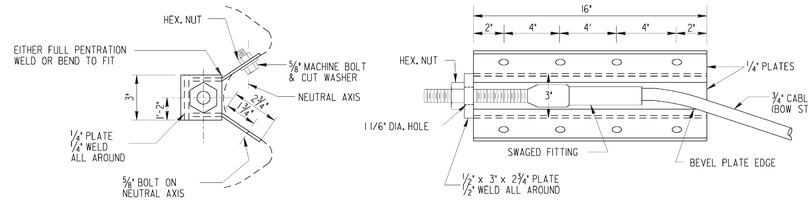


SWAGED FITTING AND STUD



GALV. PLATE 6" x ½" x 6"

PLATE "B"

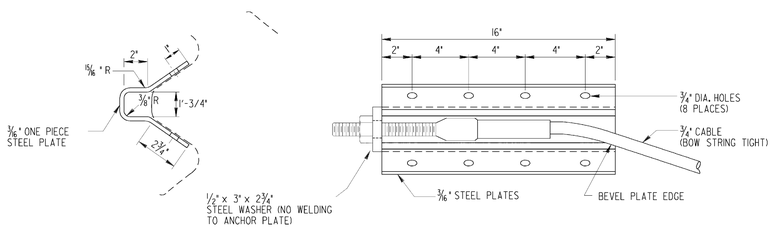


SECTION A-A

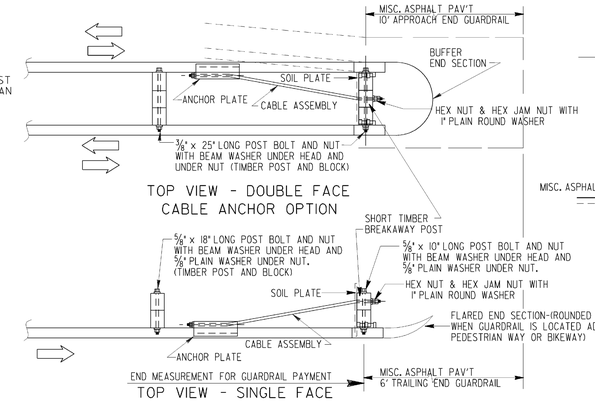
STANDARD ANCHOR PLATE

NOTE: THE 5 mm ONE PIECE STEEL PLATE SHOWN HERE MAY BE USED AS AN ALTERNATE TO THE STANDARD 6 mm WELDED PLATE SHOWN ABOVE..

NOTE: ANCHOR PLATES SHOWN HERE WITH GUARDRAIL (TYPE "W") ATTACHMENT TO GUARDRAIL (TYPE "T") WILL BE THE SAME EXCEPT THAT THE ANCHOR PLATE WILL BE LOCATED BETWEEN THE BOTTOM AND MIDDLE CORRUGATIONS.

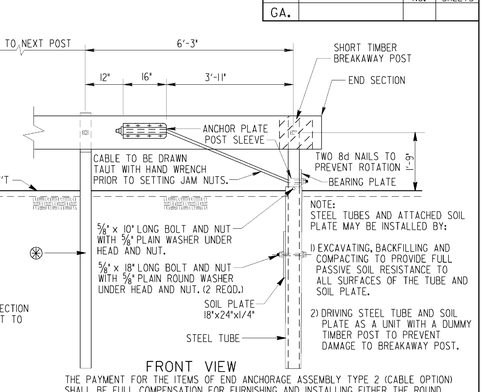


ALTERNATE ANCHOR PLATE



TOP VIEW - DOUBLE FACE CABLE ANCHOR OPTION

TOP VIEW - SINGLE FACE CABLE ANCHOR OPTION



NOTE:
STEEL TUBES AND ATTACHED SOIL PLATE MAY BE INSTALLED BY:

1) EXCAVATING, BACKFILLING AND COMPACTING TO PROVIDE FULL PASSIVE SOIL RESISTANCE TO ALL SURFACES OF THE TUBE AND SOIL PLATE.

2) DRIVING STEEL TUBE AND SOIL PLATE AS A UNIT WITH A DUMMY TIMBER POST TO PREVENT DAMAGE TO BREAKAWAY POST.

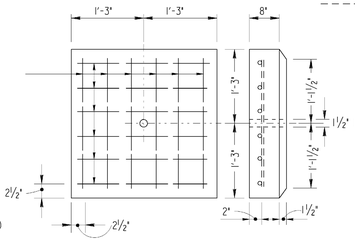
FRONT VIEW

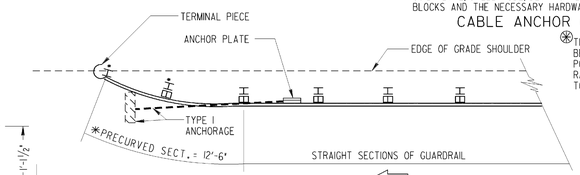
THE PAYMENT FOR THE ITEMS OF END ANCHORAGE ASSEMBLY TYPE 2 (CABLE OPTION) SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING EITHER THE ROUND OR THE BUFFER END SECTION, THE BEAM ANCHOR PLATE, CABLE ASSEMBLY, PIPE SLEEVE, SOIL PLATE, STEEL TUBE, BEARING PLATE, SHORT TIMBER BREAKAWAY POST, OFFSET BLOCKS AND THE NECESSARY HARDWARE.

CABLE ANCHOR OPTION

*TIMBER OR STEEL POST WITH TIMBER BLOCK MAY BE USED. TIMBER POST AND BLOCK SHOWN (THIS POST MUST BE TIMBER IN STEEL POST RUN OF RAIL ADJACENT TO PEDESTRIAN WAY OR BIKEWAY. TO PROVIDE ANCHORAGE FOR PIPE RAILS AS REQUIRED)

PRECAST DEADMAN (CLASS "A" CONCRETE)



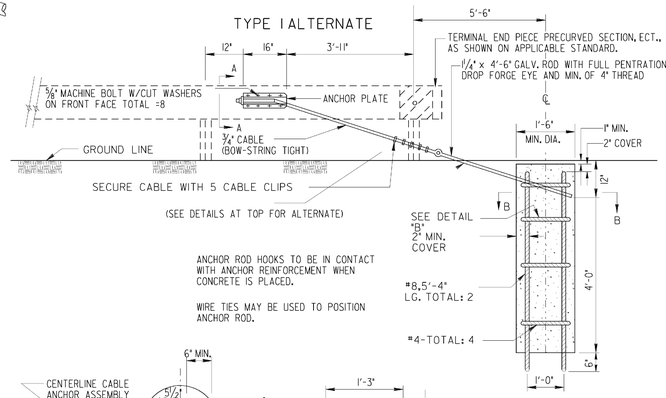


*PRECURVED SECTION SHALL UTILIZE POST OF THE SAME LENGTH AS REQUIRED FOR THE ADJOINING STRAIGHT SECTIONS, REGARDLESS OF DISTANCE TO GRADED SHOULDER EDGE.

AT TRAILING END OF TWO-WAY TRAFFIC
(WHICH FALLS OUTSIDE CLEAR ZONE OF OPPOSING TRAFFIC)

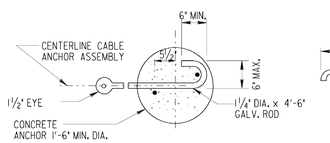
NOTE:
SEE STD. 4052 OR OTHER APPLICABLE DETAILS FOR REQUIREMENT FOR TYPE 12 ANCHORAGE ON THE TRAILING END.

TYPE I ALTERNATE

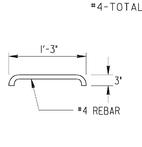


ANCHOR ROD HOOKS TO BE IN CONTACT WITH ANCHOR REINFORCEMENT WHEN CONCRETE IS PLACED.

WIRE TIES MAY BE USED TO POSITION ANCHOR ROD.



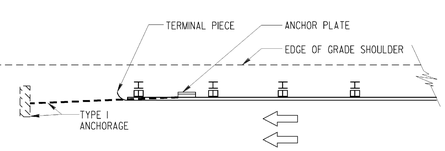
SECTION B-B



DETAIL "B"

NOTE: USE OF TYPE I ALTERNATE IS CONTRACTOR'S OPTION.

NOTE: SEE STANDARD 4012C FOR GUARDRAIL CONNECTION TO CONCRETE FACE.



AT TRAILING END OF ONE-WAY TRAFFIC

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERE TO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, OTHER TYPE ANCHORAGE, LOCATION, ETC. SEE SEPARATE STANDARDS AS APPLICABLE.
3. GUARDRAIL INSTALLATIONS, INCLUDING ANCHORAGES AND CONNECTIONS, ARE TO BE COMPLETED BEFORE BEING SUBJECT TO TRAFFIC UNLESS OTHERWISE APPROVED.
4. PAYMENT FOR ANCHORAGE INCLUDES ANCHOR PLATE; 1¼" DIA. ROD; ¾" CABLE; PRECAST DEADMAN (OR ALTERNATIVE) ALL ACCOMPANYING HARDWARE.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL ANCHORAGE TYPE I

REDRAWN NOV., 1999

DATE	REVISION	BY
7-02	ADDED CABLE ANCH. OPTION	

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) James A. Kennard
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Genl L Eadhart
CHIEF ENGINEER

NUMBER 4012D

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-018

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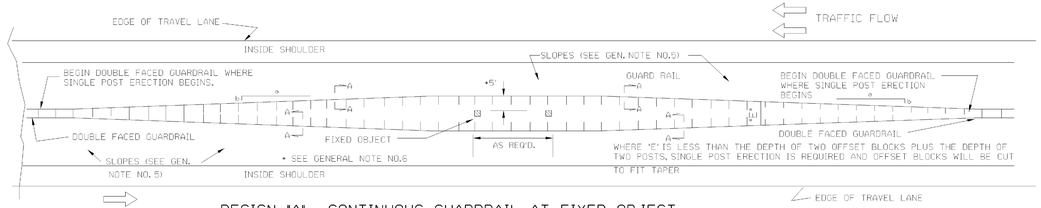
GUARDRAIL LOCATIONS IN MEDIANS

20 10 0 20 FT.
SCALE

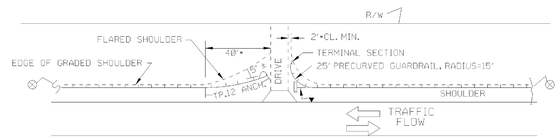


DESIGN "A" - CONTINUOUS GUARDRAIL AT FIXED OBJECT

NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE STANDARDS OR DETAILS FOR DOUBLE FACED GUARDRAIL ON INSIDE SHOULDERS OF MEDIANS OR FOR CONCRETE MEDIAN BARRIERS AT FIXED OBJECTS.

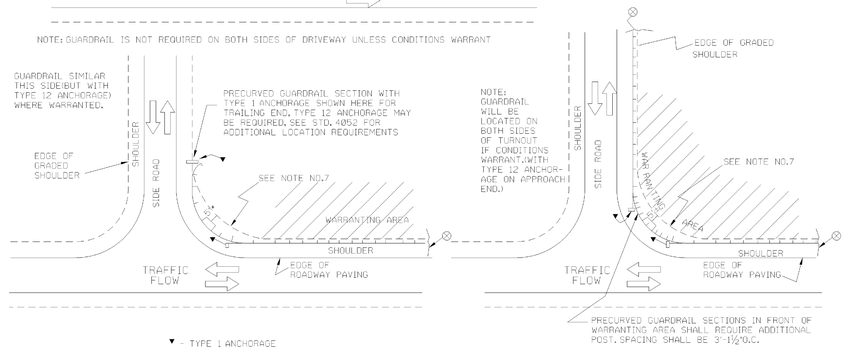
GUARDRAIL LOCATIONS AT TURNOUTS

NO SCALE



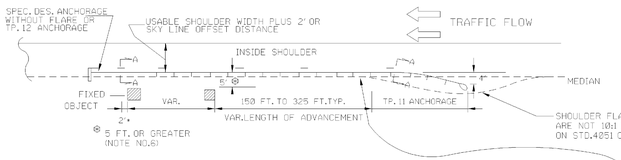
NOTE: GUARDRAIL IS NOT REQUIRED ON BOTH SIDES OF DRIVEWAY UNLESS CONDITIONS WARRANT

NOTE: PRECURVED GUARDRAIL WILL BE REQUIRED WITH RADII LESS THAN 150'.



▼ - TYPE 1 ANCHORAGE

⊗ - EXTENDED GUARDRAIL TO HAVE ANCHORAGE OR ATTACHMENT PER APPLICABLE STANDARD DETAILS.



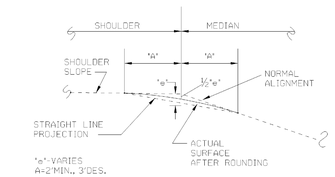
DESIGN "C"-GUARDRAIL ON INSIDE SHOULDERS AT FIXED OBJECTS

NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRED ON BOTH SIDES OF OBJECT FOR DESIGN "C", UNLESS OTHERWISE SPECIFIED.

SPECIAL NOTE: FOR CONTINUOUS DOUBLE FACED GUARDRAIL ON THE INSIDE SHOULDER OF MEDIAN, SEE SEPARATE DETAILS.

ANY PORTION OF GUARDRAIL WITH THE BACK SIDE OF POST EXPOSED INSIDE THE CLEAR ZONE OF OPPOSING TRAFFIC SHALL BE DOUBLE FACED, EXCEPT FOR BREAK-AWAY POSTS.

FLARE RATE: DESIGN "A", "B", & "D"	
DESIGN SPEED (mph)	MAX. FLARE RATE a/b
70	15
60	13
50	11
40	9
30	7



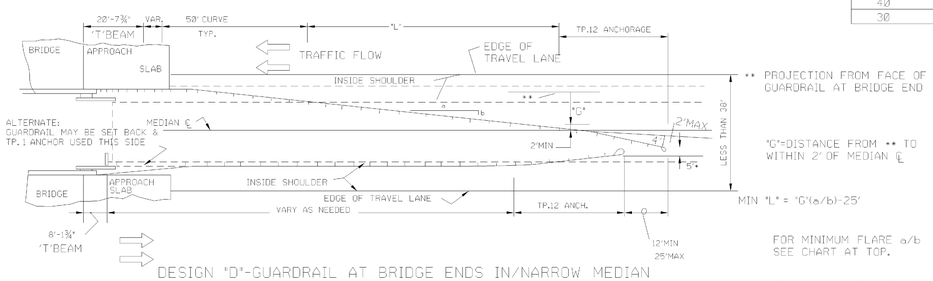
DETAIL OF SHOULDER ROUNDING

(TYPICAL FOR EXISTING GUARDRAIL INSTALLATIONS ON 6:1 OR ON 8:1 SLOPE)

GENERAL NOTES:

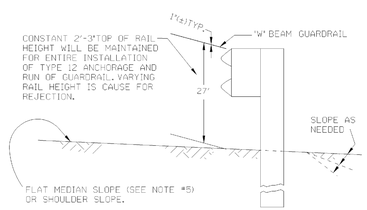
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, AND OFFSET BLOCKS, SEE STANDARDS 4010 AND 4011 A.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE SEPARATE STANDARDS, OR CONSTRUCTION DETAILS AS APPLICABLE.
4. FOR DETAILS OF DOUBLE FACED GUARDRAIL ATTACHED TO OR TERMINATED AT CONCRETE MEDIAN BARRIER, SEE STANDARD 4940.
5. NEGATIVE SLOPES IN FRONT OF GUARDRAIL AND ALL ANCHORAGES SHALL BE 10:1, OR FLATTER, FOR ALL NEW INSTALLATIONS.
6. OFFSET BETWEEN FACE OF GUARDRAIL AND FACE OF FIXED OBJECT SHALL BE 5FT.=DESIRABLE, 4'-2"MINIMUM, WHERE AN OFFSET OF LEAST 4'-3" CANNOT BE OBTAINED, DOUBLE POST SPACINGS (3'-1½" O.C.) IN FRONT OF OBJECT PLUS A MINIMUM OF 7 SUCH SPACINGS IN ADVANCE OF OBJECT IS REQUIRED WITH A 3 FT. MINIMUM OFFSET.
7. WHERE PRECURVED GUARDRAIL IS INSTALLED AROUND RADII AT INTERSECTING SIDE ROADS, THE SHOULDER AREA BACK OF THE GUARDRAIL IS TO BE WIDENED AS SHOWN ABOVE WITH THE OFFSET BETWEEN THE TRAVEL LANE AND GUARDRAIL REMAINING APPROXIMATELY CONSTANT.

NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS



DESIGN "D"-GUARDRAIL AT BRIDGE ENDS IN/NARROW MEDIAN

DESIGN "D" IS LIMITED FOR USE WHERE THE GRASSED MEDIAN AT BRIDGE APPROACHES IS ALMOST FLUSH (SLOPES NOTE STEEPER THAN 20:1) AND MEDIAN IS LESS THAN 38 FT. IN WIDTH FOR OTHER CONDITIONS. SEE STD. 4051 OR CONSTRUCTION DETAILS.



SECTION A-A

(SHOWN FOR "W" BEAM GUARDRAIL)

BY	DATE	REVISION
G.J.P.	6-28-96	REDRAWN
R.M.U.	11-17-97	CHG. TP.11 TO TP.12
R.M.U.	10-4-93	CHG. TP.8 TO TP.11
R.M.U.	2-17-92	DES. B TO STD.4055
R.M.U.	6-1-90	REV. NOTE 5
R.M.U.	5-22-84	REV. DES. "B" & "D"
R.M.U.	10-5-87	REV. NOTES 2,3, & 6
R.M.U.		REV. & REDRAWN

REV. ANCH. AT TURNOUTS	3-26-03

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL LOCATIONS IN MEDIANS
GUARDRAIL LOCATIONS AT TURNOUTS

SCALE: AS SHOWN — REV. & REDR.: DECEMBER, 1984

DES. R.M.U. (SUBMITTED)
DRW. R.M.U. STATE ROAD & AIRPORT DESIGN ENGR.
TRA. G.M.E. (APPROVED)
CHK. R.K.C. STATE HIGHWAY ENGINEER

NUMBER 4022A

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

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RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-019

RELEASED FOR CONSTRUCTION 12/02/10

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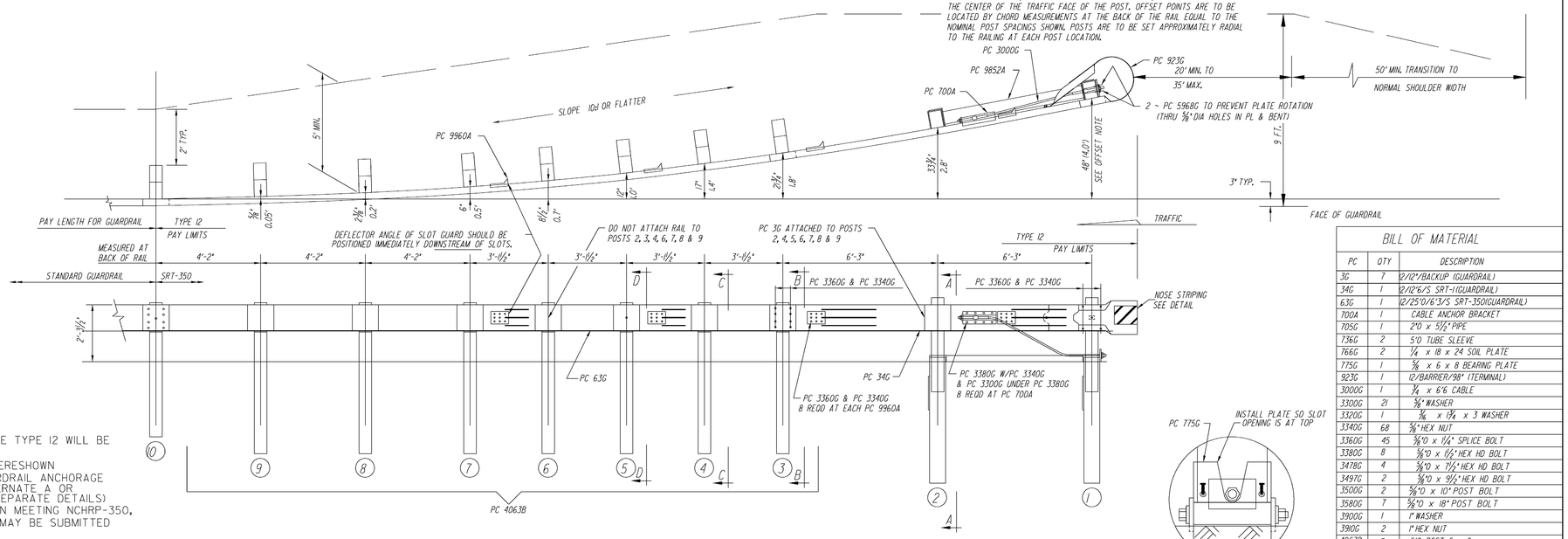
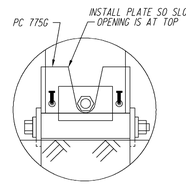
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OFFSET NOTE:
THE POST OFFSET DIMENSIONS ARE GIVEN TO THE CENTER OF THE TRAFFIC FACE OF THE BLOCKOUTS., EXCEPT AT THE FIRST TWO POSTS, WHERE THE DIMENSION IS TO THE CENTER OF THE TRAFFIC FACE OF THE POST. OFFSET POINTS ARE TO BE LOCATED BY CHORD MEASUREMENTS AT THE BACK OF THE RAIL EQUAL TO THE NOMINAL POST SPACINGS SHOWN. POSTS ARE TO BE SET APPROXIMATELY RADIAL TO THE RAILING AT EACH POST LOCATION.



NOTE:
GUARDRAIL ANCHORAGE TYPE 12 WILL BE EITHER
(a) SYRO SRT-350 AS HERESHOWN
(b) SPECIAL DESIGN GUARDRAIL ANCHORAGE WITHOUT FLARE, ALTERNATE A OR ALTERNATE B (SEE SEPARATE DETAILS)
(c) AN ALTERNATE DESIGN MEETING NCHRP-350, TL-3 REQUIREMENTS MAY BE SUBMITTED FOR DOT APPROVAL

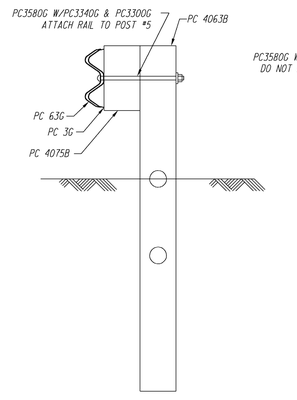
NO ADDITIONAL PAYMENT WILL BE MADE WHERE THE CONTRACTOR ELECTS TO USE (b) OR (c).



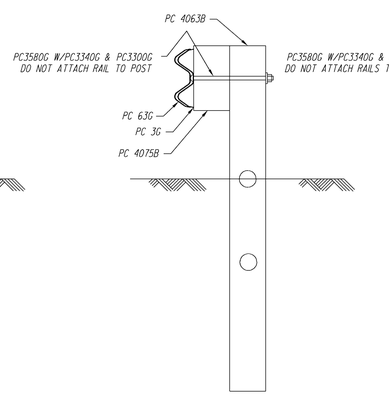
BEARING PLATE ORIENTATION

BILL OF MATERIAL

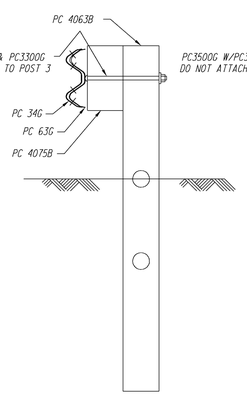
PC	QTY	DESCRIPTION
3G	7	2'-10"/BACKUP (GUARDRAIL)
34G	1	2'-10"6/S SRT-1(GUARDRAIL)
63G	1	(2)-2'5"0/6'3/S SRT-350(GUARDRAIL)
700A	1	CABLE ANCHOR BRACKET
705G	1	2'-0 x 5½" PIPE
736G	2	5'-0 TUBE SLEEVE
766G	2	¼ x 18 x 24 SOIL PLATE
775G	1	⅝ x 6 x 8 BEARING PLATE
923G	1	12/BARRIER/98" (TERMINAL)
3000G	1	¾ x 6'-6 CABLE
3300G	21	⅝" WASHER
3320G	1	⅞ x 1¾ x 3 WASHER
3340G	68	⅝" HEX NUT
3360G	45	⅝"0 x 1¼" SPLICE BOLT
3380G	8	⅝"0 x 1½" HEX HD BOLT
3478G	4	⅝"0 x 7½" HEX HD BOLT
3497G	2	⅝"0 x 9½" HEX HD BOLT
3500G	2	⅝"0 x 10" POST BOLT
3580G	7	⅝"0 x 18" POST BOLT
3900G	1	1" WASHER
3910G	2	1" HEX NUT
4063B	7	6'-0 POST 6 x 8
4075B	7	14" BLOCK 6 x 8
4147B	2	3'-9 POST 5½ x 7½
5968G	2	16d NAIL SRT
9852A	1	STRUT ASSEMBLY
9960A	4	SLOT GUARD
9961G	1	⅜ x 3 x 4 PLATE WASHER



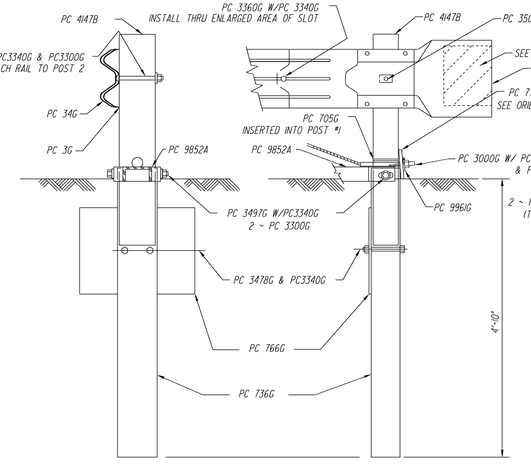
SECTION "D-D"
(@ POST #5)



SECTION "C-C"
(@ POSTS #4, #6, #7, #8 & #9)



SECTION "B-B"
(@ POST #3)



SECTION "A-A"
(@ POST #2)

ENLARGED VIEW @ POST #1

DETAILS NOT SHOWN WILL BE ACCORDING TO THE MANUFACTURERS REQUIREMENTS AND AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL OBTAIN A COPY OF THE MANUFACTURES INSTALLATION INSTRUCTIONS.

DATE	REVISION	BY
4-10-06	REMOVED NOSE STRIPING DETAIL-SEE GA. STD. 4360	G.L.D.
7-31-97	REVISED NOTES	P.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL ANCHORAGE TYPE 12

NO SCALE — JULY 1997

DES. ____ DRW. ____ TRA. ____ CHK. ____
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 4040

3/1/2007 GPLN

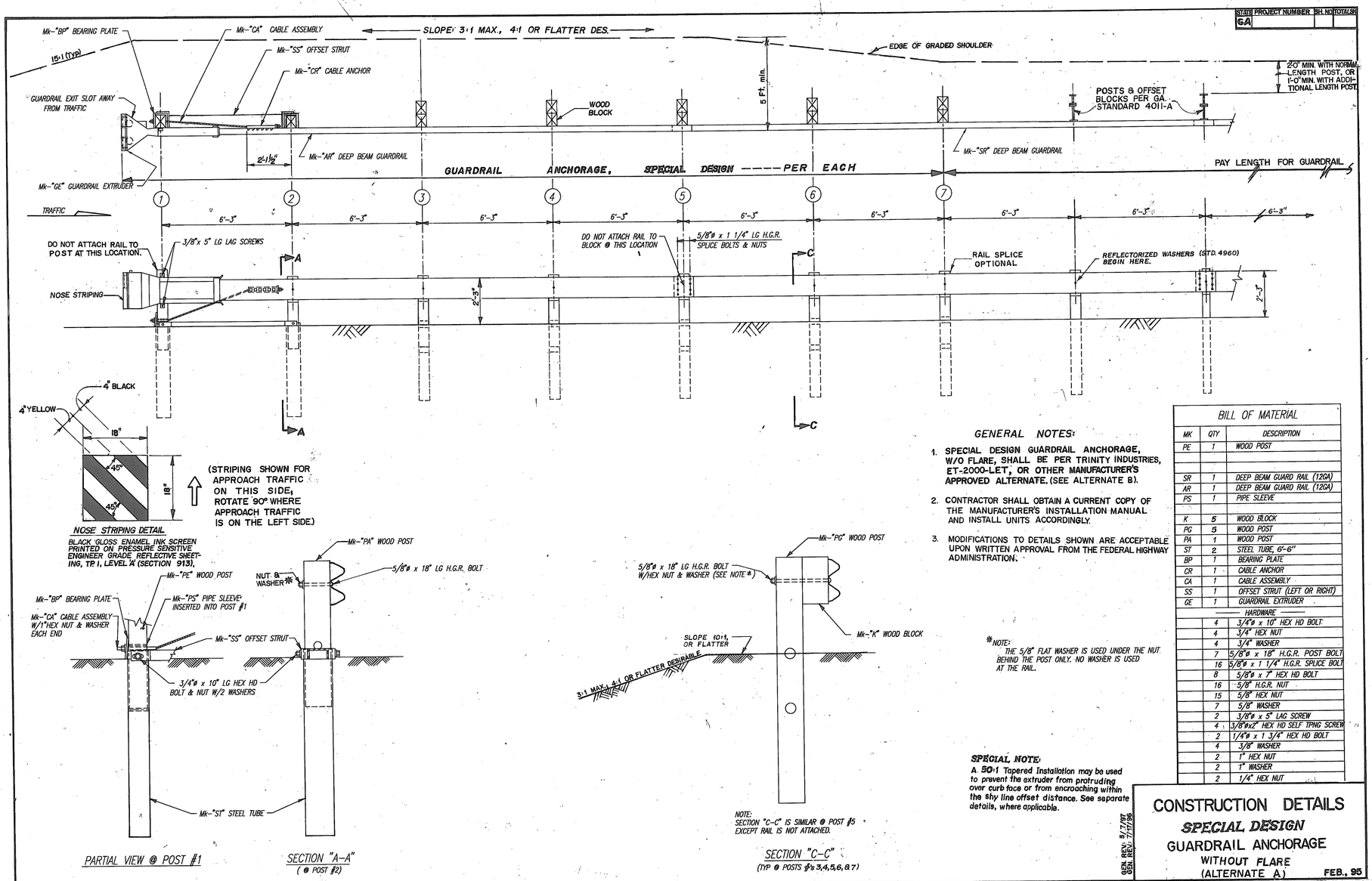
THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-020

RELEASED FOR CONSTRUCTION 12/02/10



GENERAL NOTES:

1. SPECIAL DESIGN GUARDRAIL ANCHORAGE, W/O FLARE, SHALL BE PER TRINITY INDUSTRIES, ET-2000-LET, OR OTHER MANUFACTURER'S APPROVED ALTERNATE. (SEE ALTERNATE B).
2. CONTRACTOR SHALL OBTAIN A CURRENT COPY OF THE MANUFACTURER'S INSTALLATION MANUAL AND INSTALL UNITS ACCORDINGLY.
3. MODIFICATIONS TO DETAILS SHOWN ARE ACCEPTABLE UPON WRITTEN APPROVAL FROM THE FEDERAL HIGHWAY ADMINISTRATION.

* NOTE: THE 5/8" FLAT WASHER IS USED UNDER THE NUT BEHIND THE POST ONLY. NO WASHER IS USED AT THE RAIL.

SPECIAL NOTE:
A 50:1 Tapered Installation may be used to prevent the extruder from protruding over curb face or from encroaching within the 5'-1" line offset distance. See separate details, where applicable.

BILL OF MATERIAL

MK	QTY	DESCRIPTION
PE	1	WOOD POST
SR	1	DEEP BEAM GUARD RAIL (12GA)
AR	1	DEEP BEAM GUARD RAIL (12GA)
PS	1	PIPE SLEEVE
K	5	WOOD BLOCK
PG	5	WOOD POST
PA	1	WOOD POST
ST	2	STEEL TUBE, 6'-6"
BP	1	BEARING PLATE
CR	1	CABLE ANCHOR
CA	1	CABLE ASSEMBLY
SS	1	OFFSET STRUT (LEFT OR RIGHT)
GE	1	GUARDRAIL EXTRUDER
		HARDWARE
	4	3/4"ø x 10" HEX HD BOLT
	4	3/4" HEX NUT
	4	3/4" WASHER
	7	5/8"ø x 18" H.G.R. POST BOLT
	16	5/8"ø x 1 1/4" H.G.R. SPLICE BOLT
	8	5/8"ø x 7" HEX HD BOLT
	16	5/8" H.G.R. NUT
	15	5/8" HEX NUT
	7	5/8" WASHER
	2	3/8"ø x 5" LAG SCREW
	4	3/8"ø x 2" HEX HD SELF TPNG SCREW
	2	1/4"ø x 1 3/4" HEX HD BOLT
	4	3/8" WASHER
	2	1" HEX NUT
	2	1" WASHER
	2	1/4" HEX NUT

GEN. REV: 5/7/97
GEN. REV: 7/47/95

CONSTRUCTION DETAILS
SPECIAL DESIGN
GUARDRAIL ANCHORAGE
WITHOUT FLARE
(ALTERNATE A)

FEB., 95

4040A

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

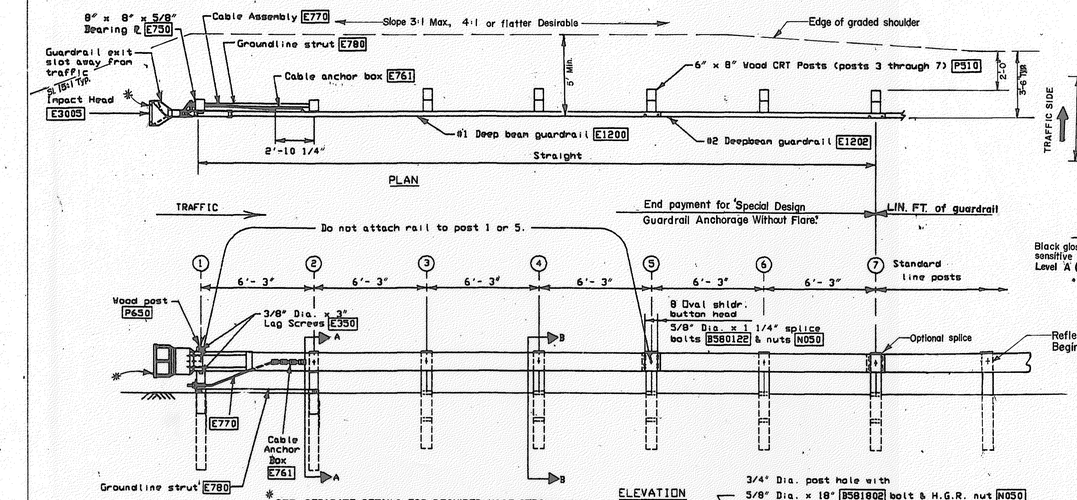
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No.
41-021

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET	TOTAL SHEETS
GA.			

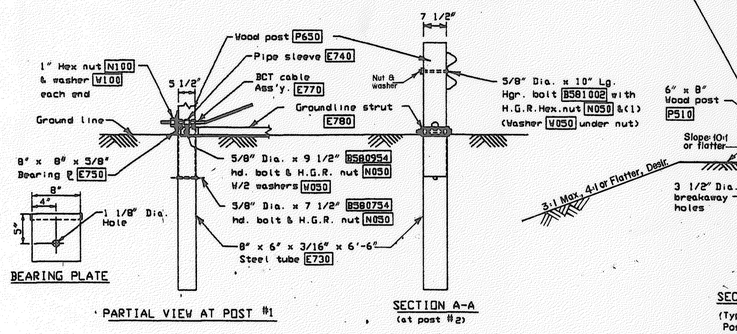


NOSE STRIPING DETAIL

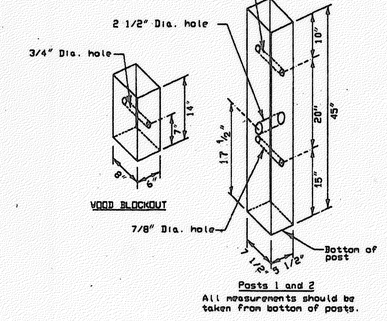
Black gloss enamel ink screen printed on pressure sensitive engineer grade reflective sheeting, Tp. 1, Level A (SECTION 913)

GENERAL NOTES

1. Wood posts are required with the Bean Eating Steel Terminal (BEST).
2. All bolts, nuts, cable assemblies, cable anchors, and bearing plates shall be galvanized.
3. When the Bean Eating Steel Terminal is selected as the end treatment for MBGF installation, the MBGF will be flared at a rate of 50:1 over the first 50 feet of the system, if needed, to prevent the BEST impact head from encroaching, as shown at bottom left. The flare may be decreased or eliminated for specific installations if directed by the Engineer. A 50:1 flare rate will be used at curb sections where the curb face is aligned with the face of the guardrail. (See DETAIL A.)
4. The steel tubes shall not protrude more than 4 inches above ground (measured along a 3 foot cord). Site grading may be necessary to meet this requirement.
5. The steel tubes may be driven with an approved driving head. They shall not be driven with the wood post in the tube. If the steel tubes are placed in drilled holes, the backfill material must be satisfactorily compacted to prevent tube settlement.
6. When rock excavation is encountered, a 12 inch diameter post hole, 20 inches deep, may be used if approved by the Engineer. Granular material will be placed in the bottom of the hole approximately 8 1/2 inches deep to provide drainage. The steel tube sleeves will be field cut to 20 inches in length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
7. The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening the nuts.
8. The wood blockouts shall be 'toe nailed' to the rectangular wood posts to prevent them from turning when the wood shrinks.
9. DETAIL 'A' Installation: the soil tubes and posts shall be installed at the proper ground elevation behind the curb. The posts will then require field drilling new holes to accommodate the rail to post connection bolt to maintain the proper height of the rail above the gutter pan. The excess post length above the rail will be removed if directed by the Engineer.

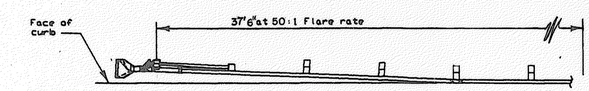


BEST Bill of Materials		
Code #	QTY	DESCRIPTION
E1200	1	#1 Deep Beam Guardrail (26'-6 1/2")(12 Ga.)
E1202	1	#2 Deep Beam Guardrail (13'-6 1/2")(12 Ga.)
E730	2	Steel Tube - 6"x 8"x 6'-6"x 3/16 "
P650	2	Wood Posts - 5 1/2 "x 7 1/2 "x 45"
P510	5	6" x 8" x 6'- 0" Wood CRT Posts
P675	5	6" x 8" x 14" Wood Blockouts
E740	1	Pipe Sleeve - 2" Std. Pipe x 5 1/2"
E750	1	Bearing Plate - 8" x 8" x 5/8"
E761	1	Cable Anchor Box
E770	1	Cable Assembly
E780	1	Groundline Strut
E3005	1	BEST Impact Head
HARDWARE		
B580754	2	5/8"x 7 1/2" Hex Hd. Bolt (bottom of tubes)
B580954	2	5/8"x 9 1/2" Hex Hd. Bolt (Top of tubes)
W050	10	5/8" Flat Washer (2 ea. at Tubes + 6 Posts)
B581002	1	5/8"x 10" H.G.R. Post Bolt (Post 2)
B581802	5	5/8"x 18" H.G.R. Post Bolt (Posts 3 through 7)
B580122	16	5/8"x 1 1/4" H.G.R. Splice Bolt
N050	26	5/8" H.G.R. Nut (Splice-16, Tubes-4, GR-6)
E350	2	3/8"x 3" Lag Screw
N100	2	1" Hex Nut (Anchor Cable)
W100	2	1" Washer (Anchor Cable)

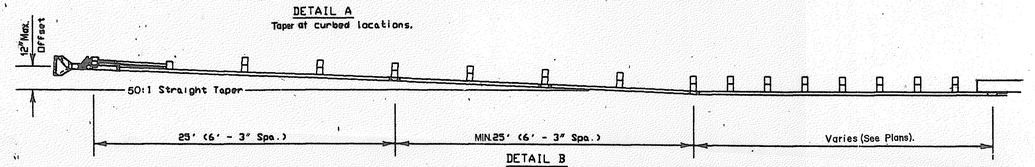


Posts 1 and 2
All measurements should be taken from bottom of posts.

NOTE:
Tapered installations are to be used only where specified, typically to prevent protrusion over curb face or to prevent encroachment within the Shy Line offset distance.



DETAIL A
Taper at curbed locations.



DETAIL B
(Taper at reduced Post Spacings.)

NOTE:
Special Design Guardrail Anchorage Without Flare, as shown, shall be in accordance with 'B-E-S-T' Systems, meeting NCHRP 350 requirements and as approved by the FHWA. The Contractor will be responsible for obtaining units from a licensed distributor.
See separate details for ALTERNATE A.

SPECIAL DESIGN GUARDRAIL ANCHORAGE

WITHOUT FLARE (ALTERNATE B)

4040B

MAY, 1997

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

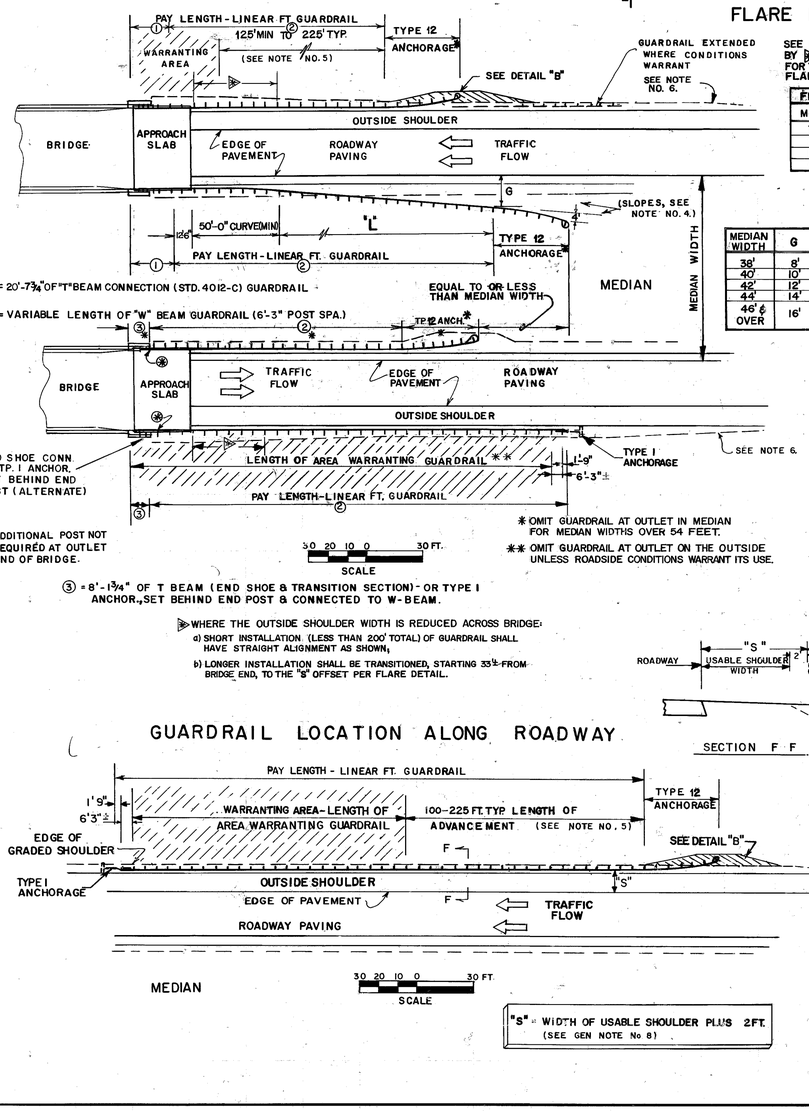
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-022

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

GUARDRAIL LOCATION AT BRIDGE ENDS



MEDIAN WIDTH	G	MIN. L
38'	8'	200'
40'	10'	175'
42'	12'	150'
44'	14'	137.5'
46' & OVER	16'	125'

* OMIT GUARDRAIL AT OUTLET IN MEDIAN FOR MEDIAN WIDTHS OVER 54 FEET.

** OMIT GUARDRAIL AT OUTLET ON THE OUTSIDE UNLESS ROADSIDE CONDITIONS WARRANT ITS USE.

* ADDITIONAL POST NOT REQUIRED AT OUTLET END OF BRIDGE.

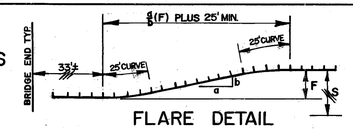
③ = 8'-1¾" OF T BEAM (END SHOE & TRANSITION SECTION) OR TYPE I ANCHOR, SET BEHIND END POST & CONNECTED TO W-BEAM.

▶ WHERE THE OUTSIDE SHOULDER WIDTH IS REDUCED ACROSS BRIDGE:

a) SHORT INSTALLATION (LESS THAN 200' TOTAL) OF GUARDRAIL SHALL HAVE STRAIGHT ALIGNMENT AS SHOWN,

b) LONGER INSTALLATION SHALL BE TRANSITIONED, STARTING 33½ FROM BRIDGE END, TO THE "S" OFFSET PER FLARE DETAIL.

FLARE DETAIL

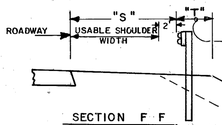


SEE NOTE INDICATED BY ▶, BELOW LEFT, FOR TYPICAL USE OF FLARE.

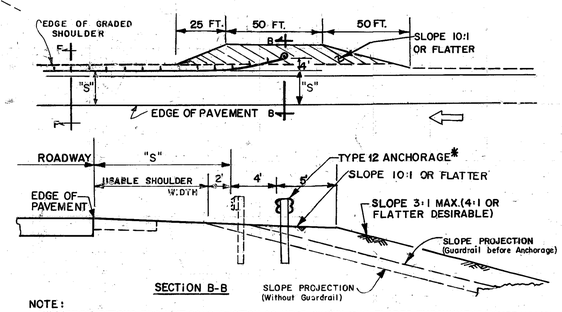
FLARE RATE	
MPH	a/b (MIN)
70	15:1
60	13:1
50	11:1
40	9:1

GUARDRAIL LOCATION ALONG ROADWAY

"S" = WIDTH OF USABLE SHOULDER PLUS 2FT. (SEE GEN NOTE No 8)



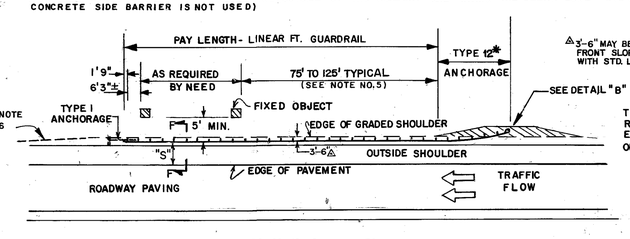
DETAIL "B"



NOTE:
WHERE CONDITIONS PROHIBIT CONSTRUCTION AS HERE SHOWN, THE FLARED EMBANKMENT MAY BE MODIFIED AT THE DIRECTION OF THE ENGINEER OR AS SHOWN ON THE PLANS IN ORDER TO PROVIDE THE 10:1 OR FLATTER SLOPES AROUND THE TP. 12 ANCHORAGE & TO GIVE THE CONSTANT 27" TOP OF RAIL HEIGHT WITH A 4 FT. OFFSET AS SHOWN.

GUARDRAIL LOCATION IN FRONT OF FIXED OBJECTS

(FOR USE WHERE FIXED OBJECTS ARE LOCATED ALONG THE OUTSIDE OF THE ROADWAY ARE WITHIN THE CLEAR ZONE WIDTH AND CONCRETE SIDE BARRIER IS NOT USED)

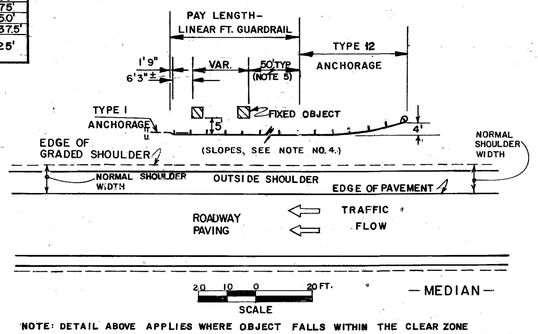


△ 3'-6" MAY BE REDUCED TO 2'-6" FOR FRONT SLOPE OF 4:1 OR FLATTER WITH STD. LENGTH 6'-0" POST.

THIS DETAIL IS FOR USE WHERE FIXED OBJECTS REQUIRE GUARDRAIL AND SLOPES ARE NOT FLAT ENOUGH TO PERMIT GUARDRAIL ERECTION BACK OF GRADED SHOULDER, AS IN DETAIL BELOW.

"S" = WIDTH OF USABLE SHOULDER PLUS 2FT. (SEE GEN. NOTE No. 8)

NOTE;
FOR DETAILS OF GUARDRAIL PROTECTION OF FIXED OBJECTS IN THE MEDIAN, SEE STANDARD #4055.
FOR DETAILS OF CONCRETE BARRIERS, SEE STANDARDS 4940, 4948, OR OTHER APPLICABLE DETAILS.



NOTE: DETAIL ABOVE APPLIES WHERE OBJECT FALLS WITHIN THE CLEAR ZONE WIDTH AND SLOPES IN FRONT OF THE OBJECT ALLOW GUARDRAIL INSTALLATION BACK OF THE GRADED SHOULDER. SEE GENERAL NOTE NO. 4.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. POST SPACINGS SHALL BE 6'-3" C. TO C. EXCEPT WHERE REDUCED SPACINGS ARE SPECIFIED AT BRIDGE ENDS OR AT FIXED HAZARDS.
3. FOR DETAILS OF GUARDRAIL, ACCESSORIES, POSTS, OFFSET BLOCKS, ANCHORAGES, ETC., SEE APPLICABLE STANDARD AND/OR CONSTRUCTION DETAILS.
4. NEGATIVE SLOPES IN FRONT OF GUARDRAIL AND TYPE 12 ANCHORAGES SHALL BE 10:1 OR FLATTER, ON ALL NEW INSTALLATIONS.
5. GUARDRAIL SHALL BEGIN IN ADVANCE OF AN OBJECT OR WARRANTING AREA SUFFICIENT LENGTH TO PREVENT VEHICLE PENETRATION BEHIND THE RAIL INTO PROTECTED AREA. THE TYPICAL LENGTHS OF ADVANCEMENT SHOWN MAY BE INCREASED OR DECREASED WHEN SHOWN IN THE PLANS, OR WHERE DIRECTED BY THE ENGINEER BECAUSE OF SPEED DESIGN, ROADSIDE GEOMETRICS, GRADES, SIZE OF HAZARD, OR OTHER CONDITIONS; IF FURTHER INFORMATION IS DESIRED, SEE GA. D.O.T. "GUIDELINES FOR DETERMINING GUARDRAIL NEED, LOCATION AND STANDARDS" OR AASHTO "ROADSIDE DESIGN GUIDE."
6. WHERE GUARDRAIL IS REQUIRED ON THE SHOULDER, THE SHOULDER WILL BE GRADED WIDER AS SHOWN IN DETAIL "B".
7. GAPS OF LESS THAN 200 FT. BETWEEN GUARDRAIL INSTALLATIONS SHOULD BE AVOIDED EXCEPT WHERE JUSTIFIED BY LOCAL CONDITIONS.
8. "S" IS THE OFFSET TO FACE OF GUARDRAIL. THIS WILL BE TWO FT. GREATER THAN THE NORMAL USABLE SHOULDER WIDTH (WITHOUT GUARDRAIL). HOWEVER, IF THE NORMAL GRADED SHOULDER WIDTH (WITHOUT GUARDRAIL) IS GREATER THAN REQUIRED BY AASHTO, "S" DISTANCE MAY BE ESTABLISHED AS TWO (2) FT. GREATER THAN THE AASHTO SHOULDER WIDTH.
9. OFFSET FROM RAIL FACE TO HAZARD FACE SHALL BE 5'±DESIRABLE AND 4'-3" MINIMUM. THIS OFFSET MAY BE REDUCED TO 3'-0" MIN. BY USING 3'-1 1/2" POST SPACINGS IN FRONT OF HAZARD WITH A MINIMUM OF 7 SUCH SPACINGS IN ADVANCE OF HAZARD.

SPECIAL NOTE:
LOCATION AND QUANTITIES GIVEN IN THE PLANS FOR GUARDRAIL AND ANCHORAGES ARE ESTIMATES MADE FROM OFFICE COMPUTATIONS. A FINAL DETERMINATION AS TO LOCATIONS AND QUANTITIES OF GUARDRAIL AND ANCHORAGES WILL BE MADE BY THE ENGINEER OR A REPRESENTATIVE FROM THE OFFICE OF TRAFFIC OPERATIONS AFTER CONSTRUCTION OF ROADWAY.

* OR APPROVED ALTERNATE, MEETING NCHRP 350 REQUIREMENTS

REV.	DESCRIPTION	DATE
R.M.U.	REV. ANCH. TYPE	10-2-97
R.M.U.	GEN. REV.	10-5-98
R.M.U.	CHANGED TP. 12 TO TP. II	4-29-99
R.M.U.	CHANGED GR. FLARE	4-29-99
R.M.U.	ADD. ADDED SEC. F-F	6-8-99
R.M.U.	Grand. Slope Water	8-19-99
R.M.U.	DIV.	12-1-99

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL LOCATION DETAILS
FOR MULTI-LANE DIVIDED HIGHWAYS
(WITH SHOULDERS ADJACENT TO ROADWAY)

SCALE: AS SHOWN — REV. & REDR. DEC. 1984

DES. R.M.U. | DRW. R.M.U. | TRA. O.M.E. | CHK. R.K.C.

(SUBMITTED) Harry E. Edwards — STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Hal Kemore — STATE HIGHWAY ENGINEER

NUMBER 4051

FORM EF00003

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-023

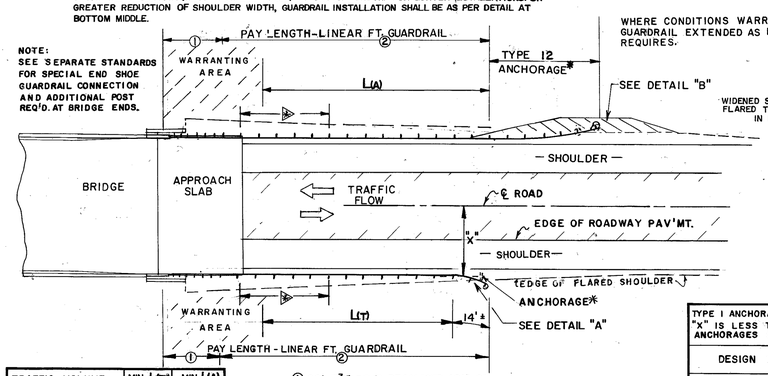
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE:
FOR MINIMAL REDUCTION (TO 2') OF SHOULDER ACROSS BRIDGE, ALIGNMENT SHALL BE STRAIGHT FOR SHORT INSTALLATIONS (LESS THAN 200' TOTAL) AS SHOWN HEREON. FOR LONGER INSTALLATIONS OR GREATER REDUCTION OF SHOULDER WIDTH, GUARDRAIL INSTALLATION SHALL BE AS PER DETAIL AT BOTTOM MIDDLE.

NOTE:
SEE SEPARATE STANDARDS FOR SPECIAL END SHOE GUARDRAIL CONNECTION AND ADDITIONAL POST REQ'D. AT BRIDGE ENDS.

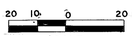


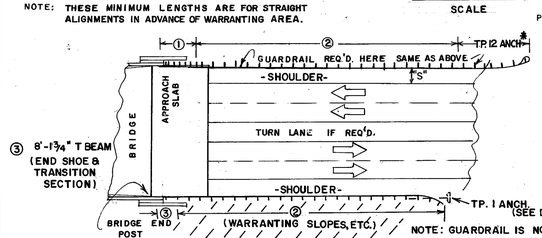
TRAFFIC VOLUME	MIN. L(T)	MIN. L(A)
DHV OVER 400	100'-0"	137'-6"
DHV 200 - 400	87'-6"	125'-0"
DHV 100 - 200	75'-0"	112'-6"
ADT 400 & OVER	62'-6"	100'-0"
ADT UNDER 400	50'-0"	87'-6"

NOTE: THESE MINIMUM LENGTHS ARE FOR STRAIGHT ALIGNMENTS IN ADVANCE OF WARRANTING AREA.

① 20'-7¾" OF T BEAM (STD. 4012-C)
② VARIABLE LENGTH OF W BEAM (6'-3" POST SPA.)

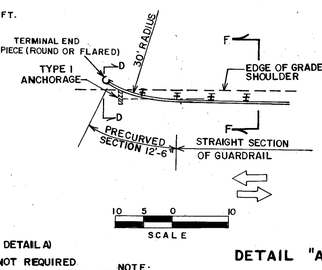
GUARDRAIL LOCATION AT BRIDGE ENDS





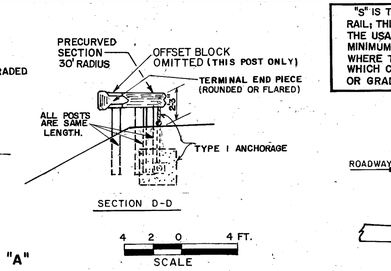
NOTE: GUARDRAIL IS NOT REQUIRED ON THIS SIDE UNLESS WARRANTED BY ROAD SIDE CONDITIONS.

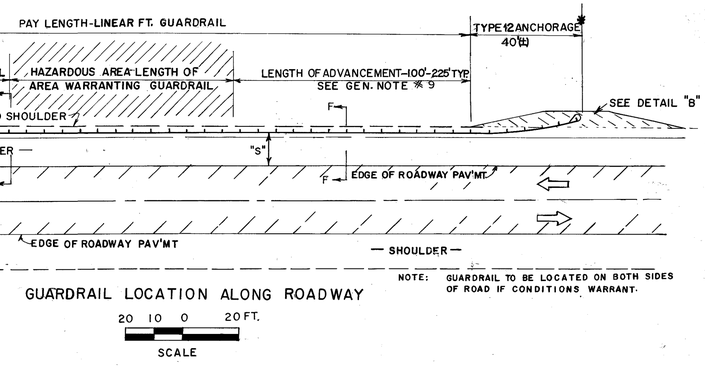
GUARDRAIL AT BRIDGE END OF MULTI-LANE UNDIVIDED HIGHWAY
NO SCALE



DETAIL "A"

NOTE:
DETAIL "A" IS FOR USE ONLY WHERE TYPE 1 ANCHORAGES ARE PERMITTED AS SHOWN ABOVE. OTHERWISE, SEE DETAIL "B" FOR PROPER INSTALLATION OF TYPE 12 ANCHORAGE.*





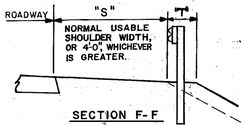
NOTE: GUARDRAIL TO BE LOCATED ON BOTH SIDES OF ROAD IF CONDITIONS WARRANT.

GUARDRAIL LOCATION ALONG ROADWAY

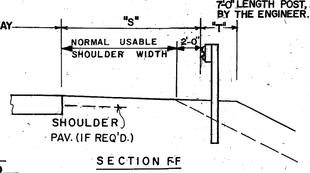
TYPE I ANCHORAGES* WILL BE UTILIZED AT THE TRAILING END, UNLESS THE DISTANCE "X" IS LESS THAN THE PARAMETER GIVEN IN THIS TABLE IN WHICH CASE TYPE II ANCHORAGES SHALL BE REQUIRED.

DESIGN TRAFFIC VOLUME		DESIGN SPEEDS (AS SHOWN ON COVER SHEET)			
		40 MPH	50 MPH	55 MPH	60 MPH
OVER 6000	A.D.T.	14'	18'	22'	30'
1500 - 6000	A.D.T.	12'	16'	20'	26'
750 - 1500	A.D.T.	10'	12'	16'	20'
UNDER 750	A.D.T.	7'	10'	12'	16'

"S" IS THE OFFSET TO THE FACE OF THE GUARDRAIL; THIS WILL BE TWO(2)' FEET GREATER THAN THE USABLE SHOULDER WIDTH (PER AASHTO MINIMUM SHOULDER REQUIREMENTS) EXCEPT WHERE THE CURRENT A.D.T. IS UNDER 400, IN WHICH CASE "S" MAY BE EQUAL TO THE USABLE OR GRADED SHOULDER WIDTH (NOT LESS THAN 4).



"T" = 3'-6" FOR NORMAL LENGTH POST; MAY BE REDUCED TO 2'-6" WITH 7'-0" LENGTH POST, AS DIRECTED BY THE ENGINEER.



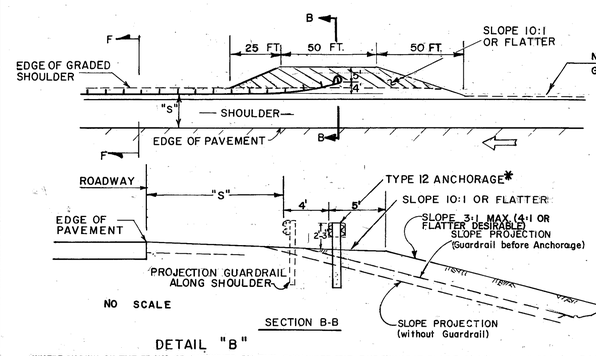
SECTION FF
(USE FOR ALL CONDITIONS, EXCEPT WHERE CURRENT ADT IS UNDER 400.

GENERAL NOTES:

1. GUARDRAIL, ITS FITTINGS, PARTS, ETC. ARE TO BE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
2. FOR DETAILS OF BEAM TYPE GUARDRAIL, ACCESSORIES, GUARDRAIL POSTS OFFSET BLOCKS, GUARDRAIL ANCHORAGES, TYPE I, AND TYPE 12, & BRIDGE END CONNECTION DETAILS, SEE APPLICABLE GEORGIA STANDARD PLANS AND/OR CONSTRUCTION DETAILS.
3. ALL OFFSET AND LENGTHS HERE SHOWN ARE APPLIED TO FACE OF GUARDRAIL.
4. POST SPACING SHALL BE 6'3" C. TO C. UNLESS OTHERWISE NOTED.
5. TYPE 12 ANCHORAGES SHOULD BE TERMINATED ON SLOPES 10:1 OR FLATTER. WHERE NORMAL SLOPES STEEPER, A 10:1 OR FLATTER SLOPE SHOULD BE CONSTRUCTED AT LOCATIONS WHERE TYPE 12 ANCHOR FLARES BACK OF SHOULDER.
6. GUARDRAIL SHALL NOT BE ERECTED ON SLOPES WHICH ARE STEEPER THAN 10:1, EXCEPT FOR THE PORTION OF PRECURVED (SHOP CURVED) SECTION THAT EXTENDS BACK OF THE SHOULDER AS SHOWN IN DETAIL "A" WHICH IS ERECTED ON NORMAL SLOPES OR EXCEPT WHERE SHOWN OTHERWISE IN THE PLANS.
7. PAY LENGTH SHALL BE MEASURED ALONG FACE OF GUARDRAIL.
8. W. BEAM GUARDRAIL WILL HAVE A CONSTANT TOP OF RAIL HT. OF 2'-3" THRU OUT INSTALLATION EXCEPT WHERE A PORTION OF THE PRECURVED SECTION SHOWN IN DETAIL "A" EXTENDS BACK OF THE GRADED SHOULDER.
9. GUARDRAIL WILL EXTEND PAST HAZARD ON BOTH THE APPROACH & TRAILING ENDS TO PREVENT VEHICLE PENETRATION BEHIND THE RAIL INTO THE HAZARDOUS AREA. THE TYPICAL LENGTHS OF ADVANCEMENT SHOWN MAY BE INCREASED OR DECREASED WHEN SHOWN IN THE PLANS, OR WHERE DIRECTED BY THE ENGINEER BECAUSE OF SPEED DESIGN, ROADSIDE GEOMETRY, SIZE OF HAZARD, OR OTHER CONDITIONS. IF FURTHER INFORMATION IS DESIRED; SEE GA. D.O.T. "GUIDELINES FOR DETERMINING GUARDRAIL NEED, LOCATION AND STANDARDS" OR AASHTO "ROADSIDE DESIGN GUIDE."

SPECIAL NOTE:
LOCATION AND QUANTITIES GIVEN IN THE PLANS FOR GUARDRAIL AND ANCHORAGES ARE ESTIMATES MADE FROM OFFICE COMPUTATIONS. A FINAL DETERMINATION AS TO LOCATIONS AND QUANTITIES OF GUARDRAIL AND ANCHORAGES WILL BE MADE BY THE ENGINEER OR A REPRESENTATIVE FROM THE OFFICE OF TRAFFIC OPERATIONS AFTER CONSTRUCTION OF ROADWAY.

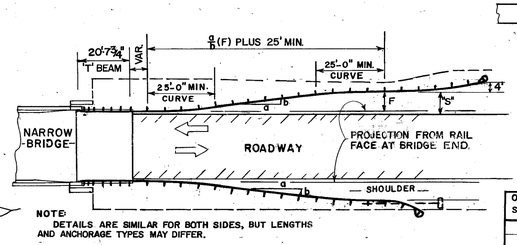
*OR APPROVED ALTERNATE, MEETING NCHRP 350 REQUIREMENTS



NO SCALE

DETAIL "B"

WHERE SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER, THE EMBANKMENT FLARE SHOWN ABOVE FOR TYPE I ANCHORAGE MAY BE MODIFIED, PROVIDED 10:1 OR FLATTER SLOPES ARE PROVIDED IN FRONT OF THE RAIL & A CONSTANT 27 INCH RAIL HEIGHT IS MAINTAINED.



NOTE:
DETAILS ARE SIMILAR FOR BOTH SIDES, BUT LENGTHS AND ANCHORAGE TYPES MAY DIFFER.

GUARDRAIL LOCATION AT END OF NARROW BRIDGE
(NOTE: DETAILS NOT SHOWN HERE ARE SIMILAR TO THOSE AT TOP LEFT.)

OPERATING SPEED (MPH)	FLARE RATE a/b
60	13:1 MIN.
55	12:1 MIN.
50	11:1 MIN.
40	9:1 MIN.

BY	REVISION	DATE
R.M.U.	REV. ANCH. TYPE CHG. (FR 9 TO TR 11)	10-2-97
R.M.U.	REV. DET. NARROW BR.	10-15-96
R.M.U.	ADD. ADDL. SEC. F-F	4-2590
R.M.U.	ADD. 25" CHART	8-30-89
R.M.U.	SHOULDER WIDTHS	6-2-86
R.M.U.	ADD. DET. NARROW BR.	11-9-84
R.M.U.	ADD. TYPE 12 ANCH.	4-19-84
R.M.U.	ADD. DET. NARROW BR.	4-19-84

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

GUARDRAIL LOCATION DETAILS
FOR UNDIVIDED HIGHWAYS AND ROADS
(WITH SHOULDERS ADJACENT TO ROADWAY)

SCALE AS SHOWN — REV. & REDR. DECEMBER, 1980

DES. R.M.U.
DRW. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) Joe E. Hardy
STATE & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Wakefield
STATE HIGHWAY ENGINEER

NUMBER 4052

FORM EF3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

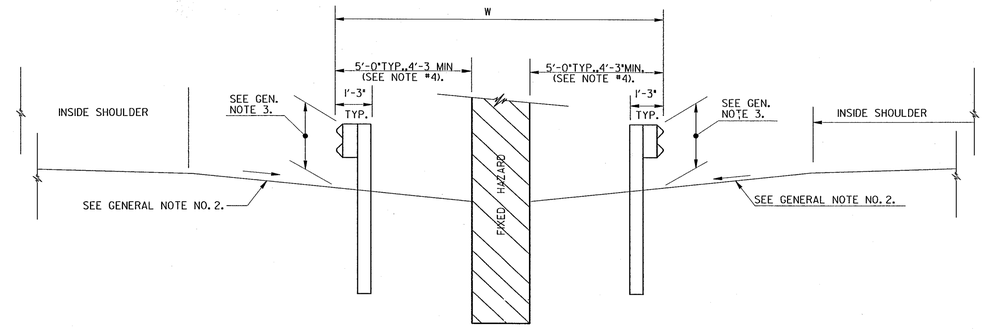
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-024

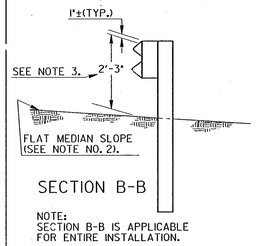
3/1/2007 GPLN

Tue Jun 22 15:22:22 1998 \\GDOT_SV20\DCF\OSDMYLAR.dgf postg M:\standard\English\ENGLISH\4055.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A
(NO SCALE)



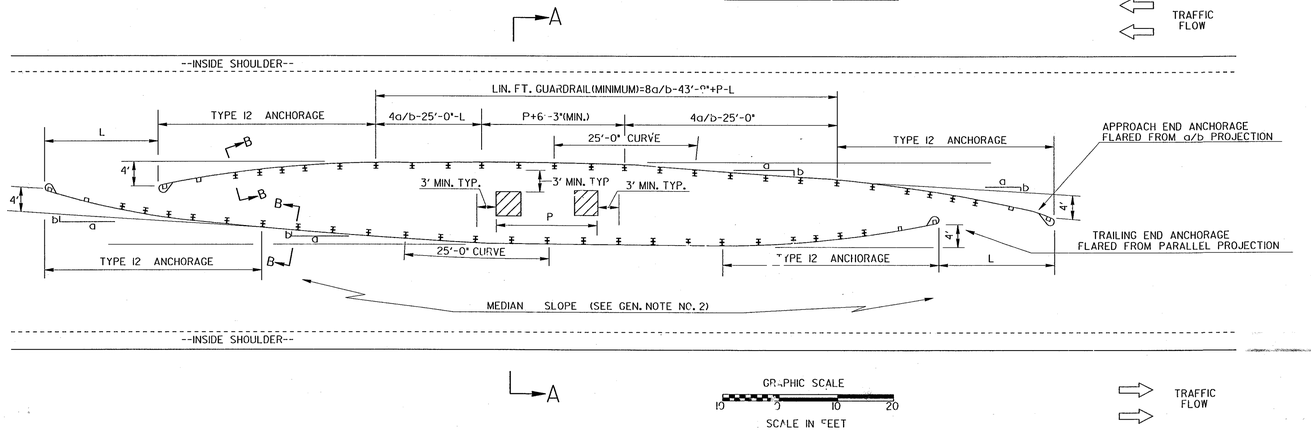
SECTION B-B

NOTE:
SECTION B-B IS APPLICABLE FOR ENTIRE INSTALLATION.

TABLE A	
W	L
12'-0"	14'-0"
13'-0"	16'-0"
14'-0"	18'-0"
15'-0"	20'-0"

DO NOT USE THIS STANDARD FOR GORE AREAS.

TABLE B	
DESIGN SPEED (mph)	MAX.FLARE RATE (a/b)
70	15
60	14
55	12
50	11
40	9
30	7



PLAN VIEW

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.

2. ALL MEDIAN SLOPES SHALL BE 10:1, OR FLATTER, FOR THE ENTIRE INSTALLATION AND FOR AT LEAST 50 FT. IN ADVANCE ON BOTH SIDES.

3. THE HEIGHT OF "W"-BEAM RAIL TOP SHALL BE 2'-3", AS MEASURED TO THE GROUND LINE BELOW THE FACE OF RAIL AT ALL POINTS.

4. WHERE AN OFFSET OF AT LEAST 4'-3" CANNOT BE OBTAINED FROM RAIL FACE TO OBJECT FACE, DOUBLE POST SPACING(3'-1½" o.c.) IN FRONT OF OBJECT PLUS A MINIMUM OF SEVEN SUCH SPACINGS IN ADVANCE OF OBJECT IS REQUIRED WITH A 3 FOOT (MIN.) OFFSET FROM RAIL FACE TO OBJECT FACE.

USER'S GUIDE:

a) DETERMINE VALUE FOR 'W' FROM DEPTH OF OBJECT AND OFFSETS, THEN SELECT 'L' VALUE FROM TABLE A AT LEFT.

b) FIND a/b FROM TABLE B AT LEFT.

c) ESTABLISH "P"(OUTSIDE TO OUTSIDE OF OBJECT) AND ROUND TO MULTIPLE OF 6'-3" OR 12'-6".

d) MINIMUM LINEAR FEET OF GUARDRAIL IS THEN EQUAL TO: (16)(a/b)-87'-6"+2P-2L.

ALSO: FOUR TYPE 12 ANCHORAGES IN ADDITION TO THE ABOVE.

SPECIAL NOTE:

STANDARD NO. 4055 IS APPLICABLE AT FIXED OBJECTS WHERE DOUBLE FACED GUARDRAIL IS NOT REQUIRED AND MEDIAN SLOPES ARE 10:1 OR FLATTER. DO NOT USE IN GORES.

STANDARD NO. 4055 SUPERSEDES "DESIGN B" ON STD. NO. 4022A.

DATE	REVISION
7-22-98	REVISED AND REDRAWN
4-4-96	GEN. REVISION
12-15-94	REV. ANCH. TO TP. II

G.J.P. R.M.U. R.M.U. BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GUARDRAIL LOCATION AT FIXED OBJECTS IN MEDIAN

SCALE AS SHOWN DEC., 1993

DES. ____ (SUBMITTED) James A. Kennel
STATE ROADWAY & AIRPORT DESIGN ENGR.
DRW. ____
TRA. ____ (APPROVED)
CHK. ____ STATE HIGHWAY ENGINEER

NUMBER 4055

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

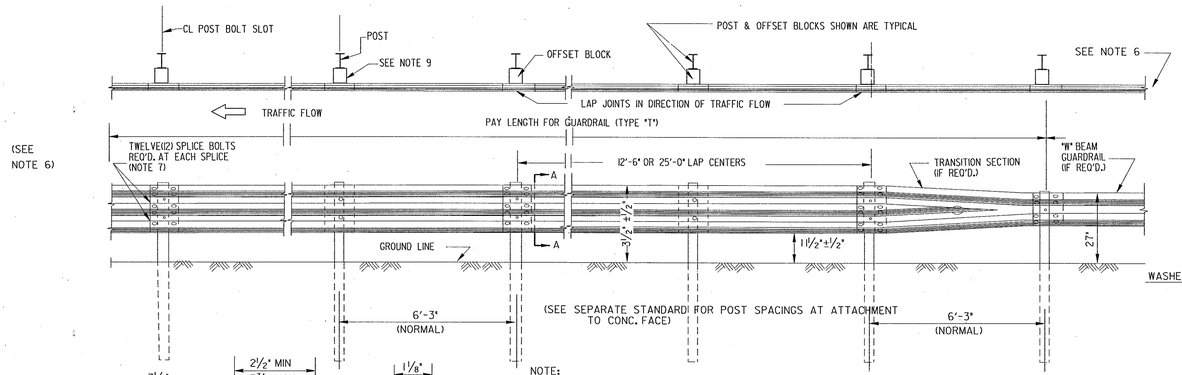
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

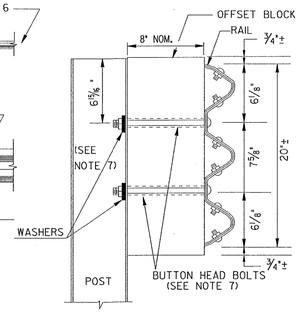
DRAWING No. 41-025

RELEASED FOR CONSTRUCTION 12/02/10

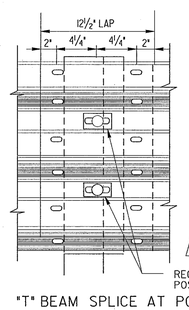
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



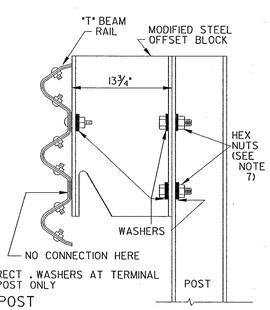
NOTE:
WHERE ATTACHED TO CONCRETE BARRIER, BRIDGE END POST OR OTHER CONCRETE FACE, PAYMENT FOR T BEAM GUARDRAIL SHALL INCLUDE ADDITIONAL POSTS, OFFSET BLOCKS AND DOUBLE THICKNESS (ONE RAIL NESTED INSIDE ANOTHER) SECTION OF T BEAM GUARDRAIL AS SPECIFIED.



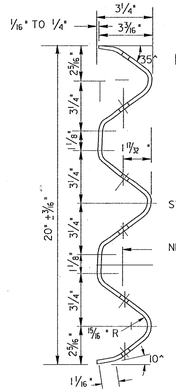
SECTIONAL VIEW
(GUARDRAIL TP. T-LIN. FT.)



"T" BEAM SPLICE AT POST



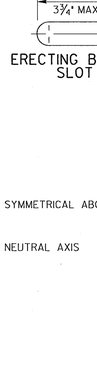
SECTIONAL VIEW
(GUARDRAIL TP. T, MODIFIED OFFSET BLOCKS -LIN. FT.)



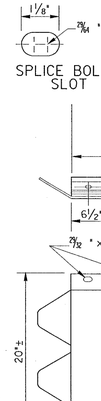
SYMMETRICAL ABOUT CL

NEUTRAL AXIS

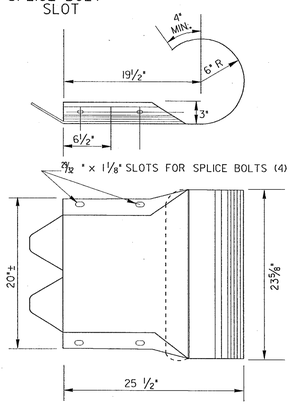
SECTION THROUGH RAIL ELEMENT (SEC. A-A)



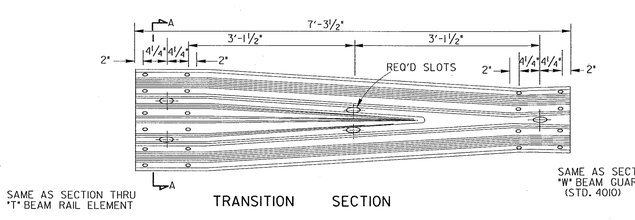
ERECTING BOLT SLOT



SPLICE BOLT SLOT



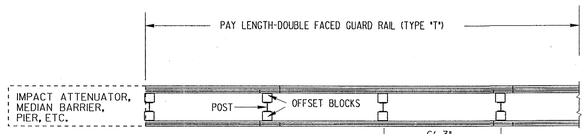
ROUNDED TERMINAL SECTION
TO BE LAPPPED ON TRAFFIC FACE OF RAIL WHERE TYPE I ANCHORAGE IS REQUIRED



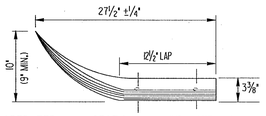
SAME AS SECTION THRU "T" BEAM RAIL ELEMENT

TRANSITION SECTION

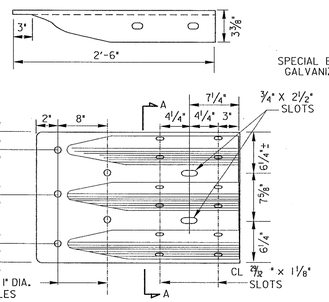
SAME AS SECTION THRU "W" BEAM GUARDRAIL (STD. 4010)

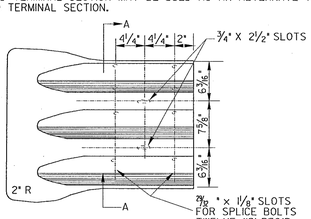


DOUBLE FACED GUARDRAIL (TYPE "T")

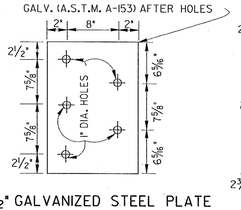


THE FLARED TERMINAL SECTION MAY BE USED AS AN ALTERNATE TO THE ROUND TERMINAL SECTION.





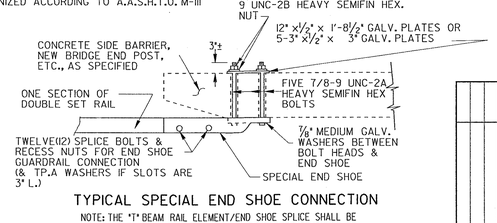
FLARED TERMINAL SECTION



½" GALVANIZED STEEL PLATE
(FOR USE WITH END SHOE CONN.)
ALTERNATE: FIVE 3" x½" x 3" GALV. PLATES WITH 1" DIA. HOLE CENTERED, GALV. AFTER HOLES.

"T" BEAM SPECIAL END SHOE

SPECIAL END SHOE WILL BE 10 GUAGE STEEL GALVANIZED ACCORDING TO A.A.S.H.T.O. M-111



TYPICAL SPECIAL END SHOE CONNECTION
NOTE: THE "T" BEAM RAIL ELEMENT/END SHOE SPLICE SHALL BE LAPPED IN THE DIRECTION OF THE NEAREST TRAFFIC.

GENERAL NOTES:

1. SPECIFICATIONS: GA. STANDARD CURRENT EDITION & SUPPLEMENTS THERETO
2. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
3. NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0".
4. RAIL ELEMENTS ON CURVES OF RADII LESS THAN 150' WILL BE PRECURVED.
5. PAYMENT FOR GUARDRAIL (TYPE "T") WILL INCLUDE ALL POSTS, BLOCKS, HARDEWARE ACCESSORIES AND WHERE REQUIRED ALL ADDITIONAL POSTS, END SHOES, TERMINAL SECTIONS, TRANSITION SECTIONS, BACK-UP PLATES AND REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS OR CATCH BASINS WHERE NECESSARY.
6. ALL GUARDRAIL TERMINALS SHALL REQUIRE AN APPROVED ANCHORAGE AS SPECIFIED IN IN THE PLANS OR APPROVED BY THE ENGINEER EXCEPT WHERE CONNECTED TO A BRIDGE END OR OTHER CONCRETE FACE.
7. NUTS, BOLTS AND WASHERS WHICH ARE NOT DETAILED ON THIS STANDARD, SHALL BE AS SHOWN FOR W BEAM GUARDRAIL ON STANDARD 4010.
8. SEE SEPARATE STANDARDS AS APPLICABLE FOR ANCHORAGES, POSTS, OFFSET BLOCKS, CONNECTIONS TO CONCRETE FACE, W BEAM GUARDRAIL, ETC.
9. SEE STANDARD 4011-A FOR DETAILS AND REQUIREMENTS OF BACK -UP PLATES, WHERE STEEL OFFSET BLOCKS ARE ALLOWED OR SPECIFIED.
10. OFFSET BLOCKS SHALL BE PLASTIC UNLESS OTHERWISE APPROVED OR SPECIFIED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

"T" BEAM GUARDRAIL

NO SCALE — REV. & REDR. NOV., 1999

BY	DES. & REV. ____ REDR. ____ CHK. ____	(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.	DATE	REVISION
		(APPROVED) CHIEF ENGINEER		

NUMBER 4270

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-026

3/1/2007 GPLN

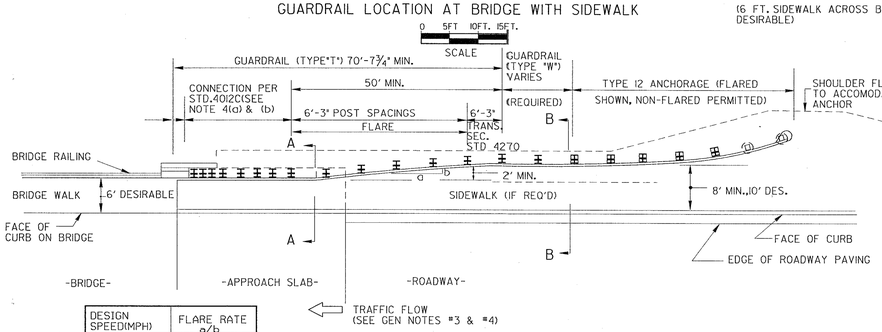
Thu Oct 28 14:04:06 1999 \\GDOT_GO_SV20\OCF\OSD_Mulan.ocf postq M:\David\approved\revised\4280.prf

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

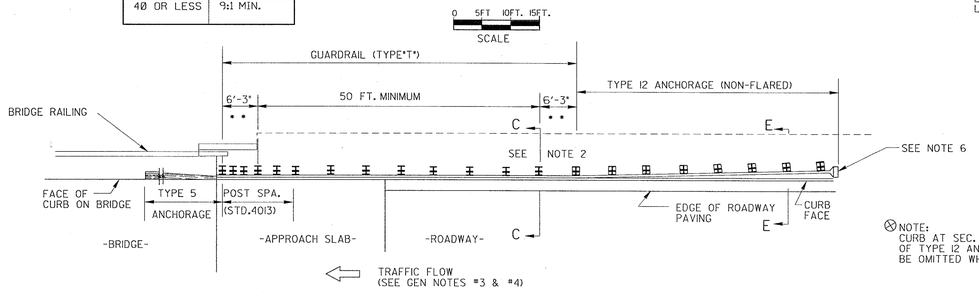
GUARDRAIL LOCATION AT BRIDGE WITH SIDEWALK

(6 FT. SIDEWALK ACROSS BRIDGE DESIRABLE)



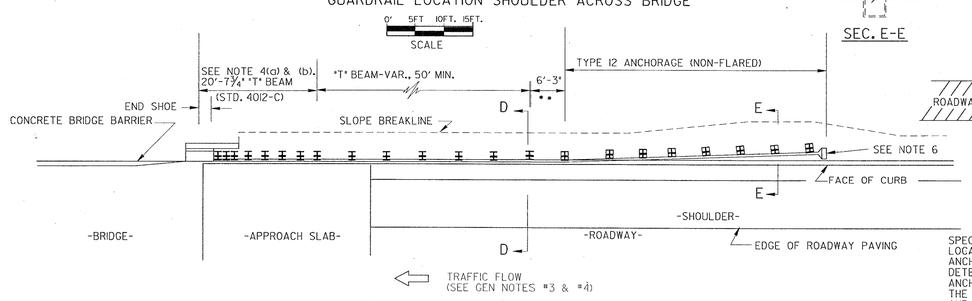
DESIGN SPEED(MPH)	FLARE RATE a/b
60	13:1 MIN.
55	12:1 MIN.
50	11:1 MIN.
40 OR LESS	9:1 MIN.

GUARDRAIL LOCATION AT BRIDGE WITH NARROW WALK

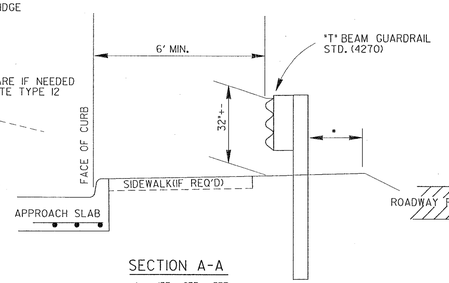


•• SEE STD. 4270 FOR TRANSITION PIECE BETWEEN "T"-BEAM AND ANCHORAGES,WHERE REQUIRED.

GUARDRAIL LOCATION SHOULDER ACROSS BRIDGE

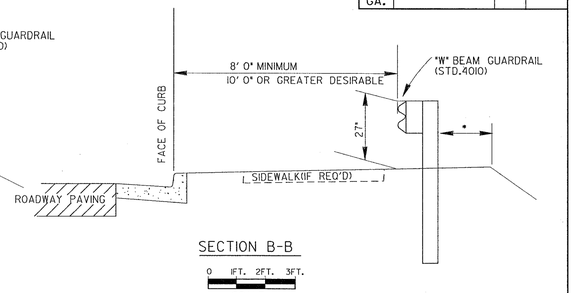


NOTE: APPLICATION OF ABOVE DETAILS IS TYPICAL FOR URBAN TYPE FACILITIES WITL CONTINOUS CONCRETE CURB & GUTTER ADJACENT TO THE PAVEMENT. SEE SEPARATE DETAILS WHERE SECTIONS OF ASPHALT CURB ARE LOCATED UNDER GUARDRAIL ON SHOULDERS OF RURAL TYPE FACILITIES.



SECTION A-A

0 1FT. 2FT. 3FT.
SCALE

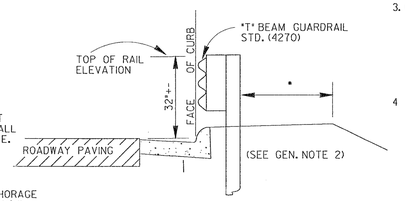


SECTION B-B

0 1FT. 2FT. 3FT.
SCALE

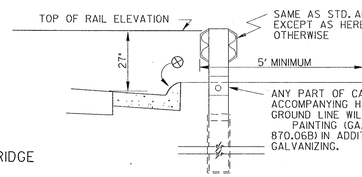
• DISTANCE FROM BACK OF POST TO EDGE OF GRADED SHOULDER SHALL NOT BE LESS THAN 2 FEET WITH NORMAL LENGTH POST AND NOT LESS THAN 1 FOOT WITH ADDITIONAL LENGTH POST.(STD. 4011A)

⊗NOTE: CURB AT SEC. E.E. IN FRONT OF TYPE 12 ANCHORAGE SHALL BE OMITTED WHERE FEASIBLE.

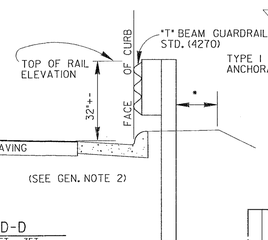


SECTION C-C

0 1FT. 2FT. 3FT.
SCALE

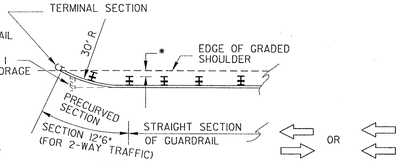


SEC. E-E



SECTION D-D

0 1FT. 2FT. 3FT.
SCALE



DETAIL "A"

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD,CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. IF GUARDRAIL IS DIRECTLY ABOVE CURB, DO NOT USE STD. 1033D,1033G,1034D, 1034G CATCH BASINS AT SAME LOCATION. EITHER USE OTHER DRAINAGE STRUCTURES OR ADJUST LOCATION OF CATCH BASINS TO MISS GUARDRAIL.
3. (a) TYPE 12 ANCHORAGES ARE REQUIRED AT ALL APPROACH ENDS OF GUARDRAIL AND AT TRAILING ENDS THAT FALL WITHIN THE C.Z.W. OF THE TWO-WAY TRAFFIC. C.Z.W.=CLEAR ZONE WIDTH.
   (b) TYPE 1 ANCHORAGE WITH A 30' R PRECURVED RAIL SECTION MAY BE USED AT TRAILING ENDS THAT FALL OUTSIDE THE C.Z.W. OF THE TWO-WAY TRAFFIC.
   (c) TYPE 1 ANCHORAGES ARE USED AT THE TRAILING ENDS OF ONE-WAY TRAFFIC.
4. (a) GUARDRAIL PER APPLICABLE DETAIL AT LEFT IS REQUIRED AT BOTH APPROACH BRIDGE END POSTS WITH ONE-WAY TRAFFIC AND AT ALL 4 BRIDGE END POSTS WITH 2-LANES & 2-WAY TRAFFIC.
   (b) BRIDGE END POSTS AT THE TRAILING END OF ONE-WAY TRAFFIC OR AT THE TRAILING END OF TWO-WAY TRAFFIC ON MULTI-LANE(FOUR OR MORE) FACILITIES DOES NOT REQUIRE GUARDRAIL UNLESS STEEP SLOPES OR OTHER CONDITION WARRANTS GUARDRAIL FOR TRAFFIC COMING OFF OF BRIDGE. IF REQUIRED FOR THIS CONDITION,GUARDRAIL TYPE SHALL BE AS WARRANTED & WITHOUT ADDITIONAL POST/DOUBLE THICK RAIL.
5. SKETCHES SHOWN HERE FOR GUARDRAIL AND ANCHORAGES ARE REPRESENTATIVE, SEE SEPARATE STANDARDS OR DETAILS FOR SPECIFIC REQUIREMENTS.
6. NON-FLARED ANCHORAGE SHALL HAVE STRAIGHT TAPER(50:1 TYP.) SO THAT THE EXTRUDER OR IMPACT HEAD WILL NOT PROTRUDE OVER CURB FACE.

SPECIAL NOTE:
LOCATION AND QUANTITIES GIVEN IN THE PLANS FOR GUARDRAIL AND ANCHORAGES ARE ESTIMATES MADE FROM OFFICE COMPUTATIONS. A FINAL DETERMINATION AS TO LOCATIONS AND QUANTITIES OF GUARDRAIL AND ANCHORAGE WILL BE MADE BY THE ENGINEER OR A REPRESENTATIVE FROM THE OFFICE OF TRAFFIC OPERATIONS AFTER CONSTRUCTION OF ROADWAY AND CURB. THIS APPLIES TO ALL CONDITIONS SHOWN ON THIS STANDARD.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD GUARDRAIL LOCATION

(ON ROADS WITH CURB & GUTTER, HEADER CURB OR INTEGRAL CURB)

SCALE AS SHOWN — REV. & REDR. OCT., 1999

DES. ____ REDR. ____ BY

(SUBMITTED) Joseph A. Kennedy
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Genie L. Conley
CHIEF ENGINEER

DATE | REVISION

NUMBER 4280

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-027

RELEASED FOR CONSTRUCTION 12/02/10

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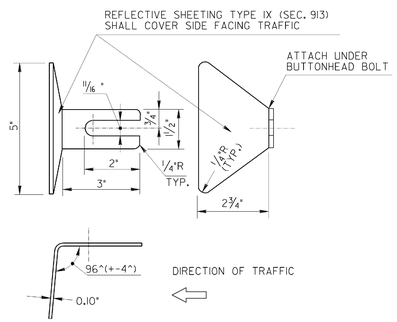
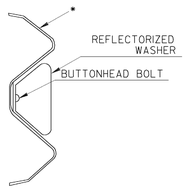
REFLECTORIZED WASHER DETAILS



MATERIALS: ALUMINUM (ASTM B 209 ALLOY 5052 H-32 OR 12 GA. STEEL (ASTM A 526 GALV. M-111) WITH REFLECTIVE SHEETING, AS APROVED BY THE DEPT. OF TRANSPORTATION LABORATORY.

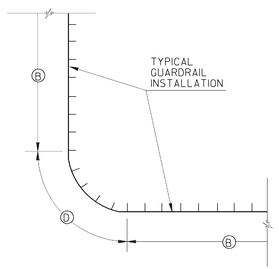
COLORS: YELLOW IN MEDIANS AND WHITE ON OUTSIDE SHOULDERS



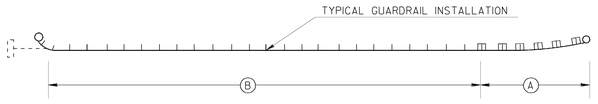
WASHER LOCATION DETAIL

NOTE:
FOR 'T'-BEAM GUARDRAIL, WASHER IS PLACED IN THE TOP INDENTION.

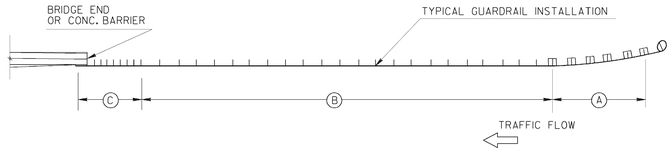
* WHERE BOLT DOES NOT EXTEND THRU RAIL REFLECTORIZED WASHER IS ATTACHED UNDER THE SPLICE BOLT ON THE TOP CORRUGATION, IF REQUIRED.



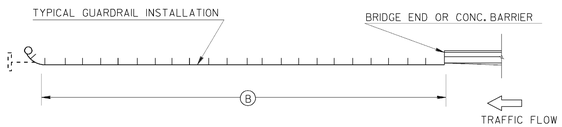
AT TURNOUTS



ALONG ROADSIDE

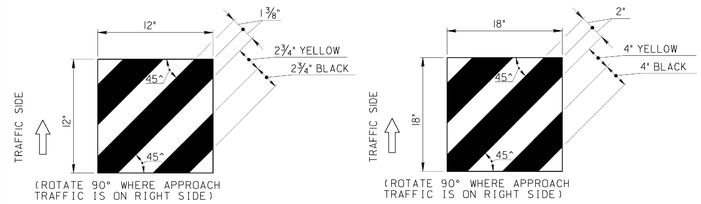


APPROACH END-BRIDGE OR CONCRETE BARRIER



TRAILING END-BRIDGE OR CONCRETE BARRIER

NOSE STRIPING DETAILS



BLACK GLOSS DURABLE INK PRINTED ON TYPE IX REFLECTIVE SHEETING (SEE CURRENT SEC. 913 AND 917)

SPACING OF REFLECTORIZED WASHERS

(A) AT ANCHORAGES:
- -TWO (2) REFLECTORIZES WASHERS ARE REQUIRED ON THE RAIL UNDER SPLICE BOLTS AS DIRECTED BY THE ENGINEER FOR ELLIPTICALLY FLARED ANCHORAGES WITH ROUNDED END PIECES;
- -NO REFLECTORIZED WASHERS WILL BE USED FOR TANGENTIALLY ALIGNED OR STRAIGHT TAPERED ANCHORAGE WITH EXTRUDER OR IMPACT HEADS

(B) -AT 75 FT. SPACINGS FOR INTERMEDIATE SECTIONS;

(C) -THREE WASHERS AT 6'-3" SPACING AT CONNECTIONS TO CONCRETE FACE ON THE APPROACH END;

(D) -AT 12'-6" SPACINGS AROUND RADII TURNS.

GENERAL NOTES:

1-SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.

2-SEE SEPARATE STANDARDS FOR DETAILS OF GUARDRAIL INSTALLATIONS, CONNECTING HARDWARE, AND ANCHORAGES.

3-PAYMENT FOR GUARDRAIL AND ANCHORAGES INCLUDES ALL REFLECTORIZED WASHERS AND NOSE STRIPING REQUIRED.

4-ADJUSTMENTS OF SPACINGS AND/OR REQUIREMENTS FOR REFLECTIVE WASHERS MAY BE DIRECTED BY THE ENGINEER TO SUIT INDIVIDUAL LOCATIONS.

5-WHERE DOUBLE FACED GUARDRAIL IS LOCATED ON THE INSIDE SHOULDER OF MEDIANS, REFLECTORIZED WASHERS SHALL BE REQUIRED ONLY ON THE SIDE WHICH IS NEAREST TO TRAFFIC, UNLESS SPECIFIED OTHERWISE.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REV. REFLECTIVE SH. TYPE. 4-10-06
REFLEC. SH. SPEC. 2-1-01
ADD NOSE STRIPING 6-1-99
REVISION DATE BY
GLO RMU RMU

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE STRIPING

NO SCALE — REV. & REDR. APRIL, 1999

DES. ____ DRWN. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 4360

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-028

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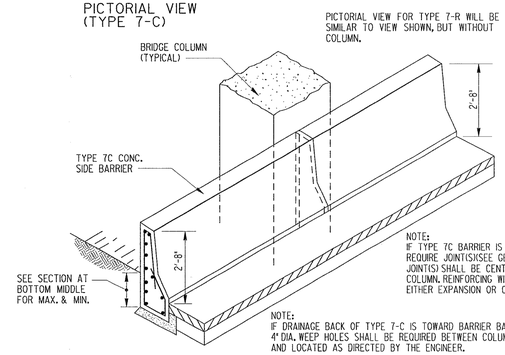
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

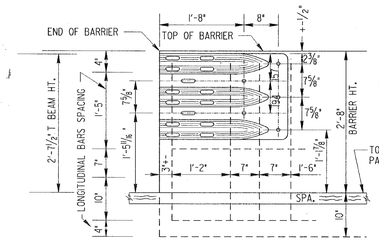
PICTORIAL VIEW (TYPE 7-C)



PICTORIAL VIEW FOR TYPE 7-R WILL BE SIMILAR TO VIEW SHOWN, BUT WITHOUT COLUMN.

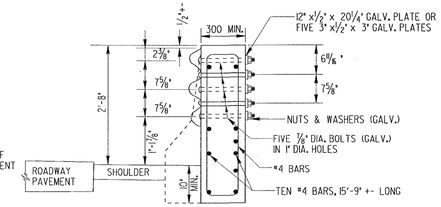
NOTE:
IF TYPE 7C BARRIER IS LONG ENOUGH TO REQUIRE JOINT(S)(SEE GENERAL NOTE NO.6); THE JOINT(S) SHALL BE CENTERED IN FRONT OF A COLUMN. REINFORCING WILL NOT EXTEND THRU EITHER EXPANSION OR CONTRACTION JOINTS.

NOTE:
IF DRAINAGE BACK OF TYPE 7-C IS TOWARD BARRIER BACK, 4" DIA. WEEP HOLES SHALL BE REQUIRED BETWEEN COLUMNS AND LOCATED AS DIRECTED BY THE ENGINEER.

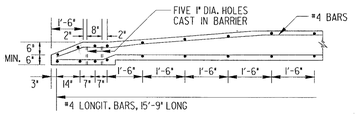


NOTE:
SEE STANDARD 4270 FOR DETAILS OF GUARDRAIL, SPECIAL END SHOE, 1/2" GALV. PLATE AND RELATED ITEMS.

ELEVATION (TYPE 7-T)
(GUARDRAIL ATTACHMENT)

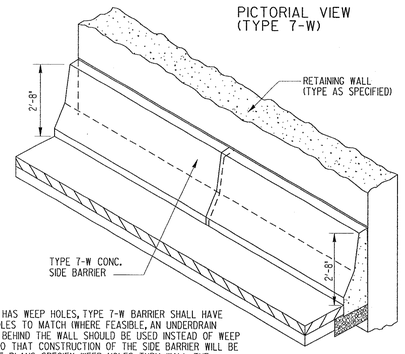


SECTION B-B (TYPE 7-T)



REINFORCING FOR TYPE 7-T

PICTORIAL VIEW (TYPE 7-W)



NOTE:
IF WALL HAS WEEP HOLES, TYPE 7-W BARRIER SHALL HAVE WEEP HOLES TO MATCH (WHERE FEASIBLE, AN UNDERDRAIN SYSTEM BEHIND THE WALL SHOULD BE USED INSTEAD OF WEEP HOLES, SO THAT CONSTRUCTION OF THE SIDE BARRIER WILL BE EASIER. IF PLANS SPECIFY WEEP HOLES THRU WALL, THE CONTRACTOR AT HIS OPTION MAY SUBSTITUTE AN APPROVED UNDERDRAIN SYSTEM FOR NO ADDITIONAL PAYMENT.)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO. ALL CONCRETE SHALL BE CLASS "A", SURFACE FINISHES REQUIRED ONLY WHERE SPECIFIED; SEE SECTION 500.

2. GRADE AND ALIGNMENT OF BARRIER TOP SURFACE SHALL NOT VARY FROM THE ESTABLISHED LINE AND GRADE MORE THAN 1/8 IN. IN 10'-0" WHEN CHECKED WITH A STRAIGHT EDGE OF NOT LESS THAN 10'-0" IN LENGTH.

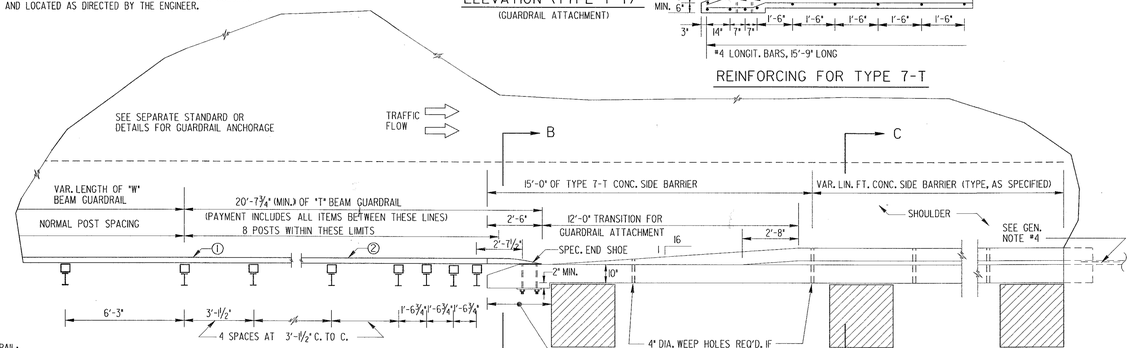
3. WHERE GUARDRAIL ATTACHMENT IS REQUIRED, PAYMENT FOR CONCRETE SIDE BARRIER, TYPE 7-T, INCLUDES THE TRANSITION, TAPER AND THE FIVE 1" DIA. HOLES, PROPERLY LOCATED, FOR CONNECTING THE SPECIAL END SHOE. PAYMENT FOR GUARDRAIL INCLUDES THE SPECIAL END SHOE, ALL CONNECTING HARDWARE, ADD'L POSTS & DOUBLE (INSET) "T" BEAM.

4. IF GUARDRAIL IS WARRANTED ON THE TRAILING END OF SIDE BARRIER WITH ONE-WAY TRAFFIC, BARRIER FACE TRANSITION AND ADDITIONAL GUARDRAIL POSTS ARE NOT REQUIRED.

5. IF THE EDGE OF THE TRAVEL LANE TO THE FACE OF THE CONCRETE BARRIER IS MORE THAN APPROXIMATELY 15 FT., CONSIDERATION SHOULD BE GIVEN TO CONTINUING GUARDRAIL RATHER THAN USING CONCRETE SIDE BARRIER.

6. ALL CONCRETE SIDE BARRIERS OVER 20 FT. IN LENGTH SHALL HAVE CONTRACTION JOINTS AT 20 FT. MAXIMUM SPACINGS. IF SAWED, CONTRACTION JOINT CUT SHALL BE 1/4" WIDE AND 2" DEEP. ALL CONCRETE SIDE BARRIERS OVER 400 FT. IN LENGTH SHALL HAVE EXPANSION JOINTS AT 400 FT. MAXIMUM SPACINGS. A 1" PREFORMED, JOINT FILLER SHALL BE USED AT THE EXPANSION JOINTS. DISTANCE BETWEEN JOINTS SHOULD BE EQUAL (APPROXIMATELY).

7. LOCATE OVERHEAD SIGN SUPPORTS BACK OF SIDE BARRIER IF FEASIBLE; WHERE CONDITIONS NECESSITATE LOCATION ON BARRIER TOP, SUPPORT FOOTING FOR SIGN SHALL BE DESIGNED BY CONTRACTOR, APPROVED BY THE D.O.T. PRIOR TO CONSTRUCTION. SEE SEPARATE DETAILS FOR TYPE 26 SIDE BARRIER IF REQUIRED.



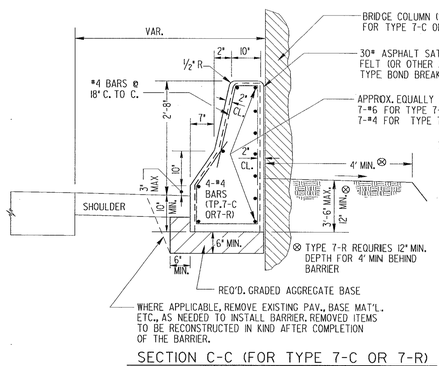
GUARDRAIL:
-- THE LENGTH OF ADVANCEMENT VARIES PER INDIVIDUAL SITE AND SHALL BE ENOUGH TO PREVENT ERRANT VEHICLE PENETRATION INTO OBJECT.

-- POSTS & OFFSET BLOCKS DEPICTED FOR GUARDRAIL ARE TYPICAL. NORMAL CONSTRUCTION TOLERANCES ARE ALLOWED FOR SPACINGS.

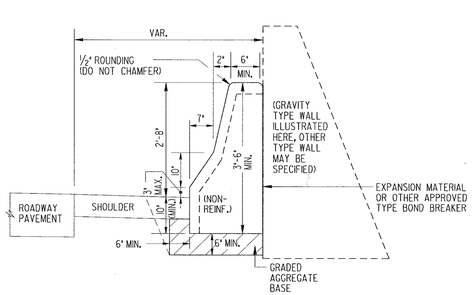
PLAN VIEW
(TRANSITION FOR & ATTACHMENT TO GUARDRAIL)

① "T" BEAM TO "W" BEAM GUARDRAIL TRANSITION SECTION (STD. 4270)

② DOUBLE THICKNESS (ONE RAIL SECTION INSET IN ANOTHER) "T" BEAM GUARDRAIL



SECTION C-C (FOR TYPE 7-C OR 7-R)



- VOIDS WILL NOT BE PERMITTED BETWEEN BARRIER AND WALL. OPENINGS WILL BE GROUT FILLED.

TYPE 7-W

BARRIER TYPE LOCATIONS	
TYPE	LOCATION
7-C	AT BRIDGE COLUMNS
7-R	ALONG ROADSIDE-FREESTANDING, MIN. 12" DEPTH BEHIND BARRIER FOR 4' MIN.
7-W	ALONG RETAINING WALL (TYPE AS SPECIFIED); BUT NOT ALONG SOUND BARRIER.
7-T	AT GUARDRAIL ATTACHMENT

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE SIDE BARRIER
TYPES 7-C,7-R,7-T,7-W

DEC., 1999

BY	REVISION	DATE
DES.		
DRW.		
TRA.		
CHK.		

(SUBMITTED) James A. Kennedy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Russell L. Fowler
CHIEF ENGINEER

NUMBER 4948A

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-029

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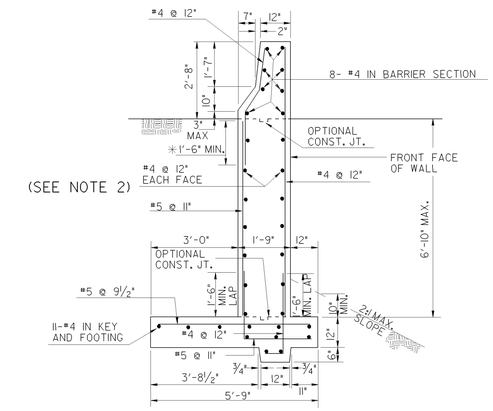
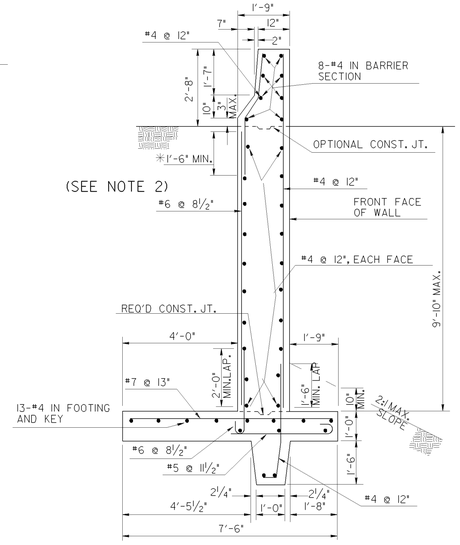
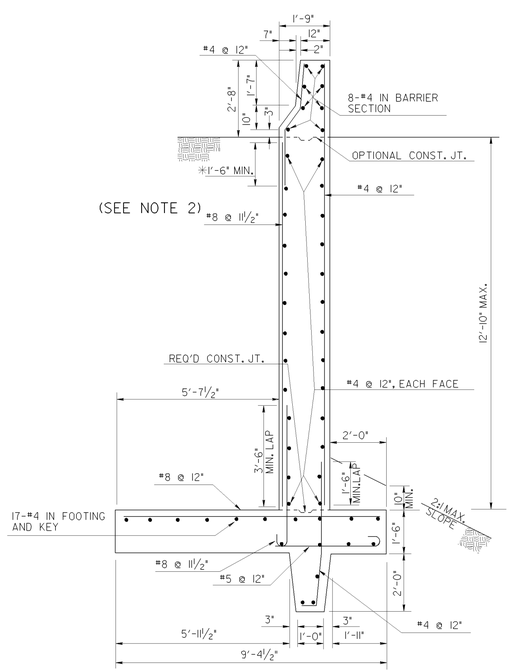


*NON-CONTACT LAPS ARE ACCEPTABLE

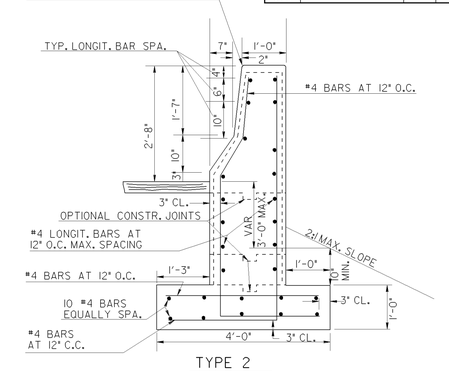
TYPE 2-A SIDE BARRIER



TYPE 2-B SIDE BARRIER



TYPE 2-C SIDE BARRIER



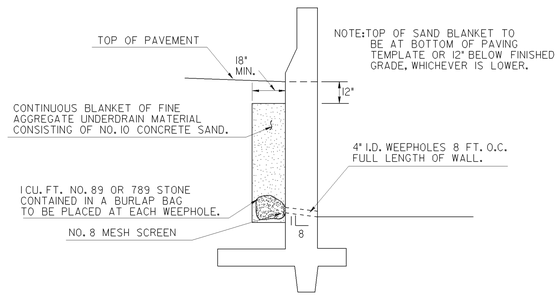
TYPE 2

GENERAL NOTES:

1. AT CONTRACTOR'S OPTION, SIDES OF FOOTING KEY MAY BE VERTICAL. MAINTAIN WIDTH SHOWN AT TOP OF KEY. BACKFILL FRONT FACE OF WALL FIRST.
2. UNDERDRAIN SYSTEM PER DETAILS AT BOTTOM LEFT AND/OR NOTE 9 IS REQUIRED FOR TYPES 2-A, 2-B, AND 2-C.
3. EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH.
4. 1" EXPANSION JOINTS SHALL BE PROVIDED IN WALL, FOOTING AND KEY AT A MAXIMUM SPACING OF 100 FT. EXPANSION JOINTS SHALL BE SPACED UNIFORMLY.
5. CONTRACTION JOINTS SHALL BE AS SPECIFIED FOR SIDE BARRIER, GA. STD. 4948A.
6. EXPANSION AND CONTRACTION JOINTS IN TYPES 2-A, 2-B, AND 2-C SIDE BARRIER SHALL BE WATERPROOFED ON THE BACK SIDE. WATERPROOFING SHALL BE 3-PLY AND EXTEND FROM TOP OF SAND BLANKET TO TOP OF FOOTING FOR 1'-6" MIN. EACH SIDE OF JOINT.
7. TYPES 2, 2-A, 2-B, AND 2-C SIDE BARRIER SHALL BE PAID FOR PER LIN. FT. AS CONCRETE SIDE BARRIER, TYPE 2, 2A, 2B, OR 2C PRICE BID TO INCLUDE COST OF WATERPROOFING AND ALL INCIDENTALS AS SPECIFIED IN SECTION 621 OF THE STD. SPEC.
8. SIDE BARRIER DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

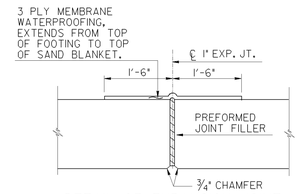
   θ = ANGLE OF INTERNAL FRICTION 28°
   ɣ = UNIT WEIGHT = 110 PCF
   A = COEFF. OF SLIDING FRICTION = .45
9. A SYNTHETIC DRAINAGE BLANKET SELECTED FROM THE DEPARTMENT'S QUALIFIED PRODUCTS LIST IS AN ACCEPTABLE SUBSTITUTE FOR THE SAND BLANKET, BAG OF STONE, AND MESH SCREEN SHOWN IN THE UNDERDRAIN DETAILS.

RED'D SOIL BEARING CAPACITY	
TYPE	CAPACITY, TONS/SF
2-A	1.25
2-B	1.25
2-C	1.5
2	1.0

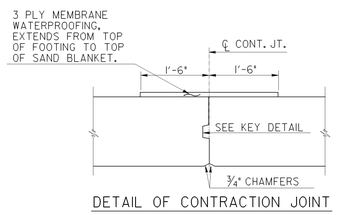


UNDERDRAIN DETAILS

SEE GEN. NOTE 9 FOR ALTERNATE

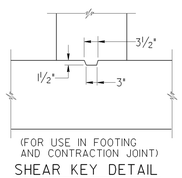


DETAIL OF EXPANSION JOINT



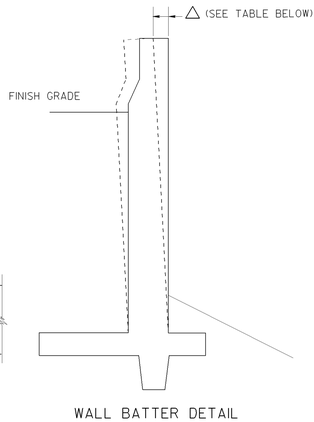
DETAIL OF CONTRACTION JOINT

△ (INCHES)	
WALL TYPE	DIMENSION
2-A	0
2-B	0
2-C	3/16



(FOR USE IN FOOTING AND CONTRACTION JOINT)

SHEAR KEY DETAIL



WALL BATTER DETAIL

BY	REVISION	DATE
GLO	ADDED BAR LAP NOTE AND WALL BATTER DETAIL.	1-25-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE SIDE BARRIER
TYPES 2, 2A, 2B & 2C

NO SCALE — DEC., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 4948B

8/23/2007 11:44:29 AM \\GDOT-DSN\GDPLOT\DCF\go_t1ff_output.dcf gowens M:\GARY\Revised 4948B\4948B.prf

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

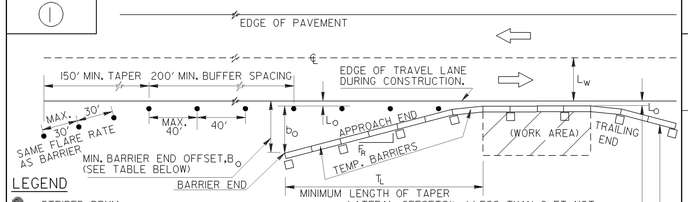
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-030

RELEASED FOR CONSTRUCTION 12/02/10

OPTION ① — BARRIER DELINEATIONS, OFFSETS, & FLARE RATES



LEGEND

- ● - STRIPED DRUM
- □ - 10"x10" YELLOW PANELS WITH TYPE VII SHEETING- MAX. 40' SPACING-LONGITUDINAL SECTION-MAX. 20' SPACING IN TAPER
- T_L - MINIMUM TAPER LENGTH OF TEMPORARY BARRIER MEASURED FROM THE SECTION OF TEMPORARY BARRIER RUNNING PARALLEL WITH THE TRAVEL LANE TO THE BARRIER END IN FEET
- B_O - MINIMUM BARRIER END OFFSET DISTANCE IN FEET
- L_O - DESIRABLE MINIMUM LATERAL OFFSET DISTANCE FROM THE EDGE OF THE TRAVEL LANE TO THE TOE OF THE TEMPORARY BARRIER IN FEET
- b_O - MINIMUM BARRIER END OFFSET(B_O) MINUS THE DESIRABLE MINIMUM LATERAL OFFSET(L_O)
- F_R - MINIMUM FLARE RATE OF THE TEMPORARY BARRIER IN THE TAPER SECTION
- L_W - LANE WIDTH IN FEET

L_O = MINIMUM LENGTH OF TAPER LATERAL OFFSETS LESS THAN 2 FT. NOT PERMITTED, UNLESS APPROVED BY THE ENGINEER.

FOR A TWO-LANE TWO-WAY ROADWAY THE LANE WIDTH(L_W) PLUS THE LATERAL OFFSET(L_O) MUST BE GREATER THAN THE MINIMUM BARRIER END OFFSET(B_O), OR THE TRAILING END SHALL BE TAPERED SAME AS APPROACH.

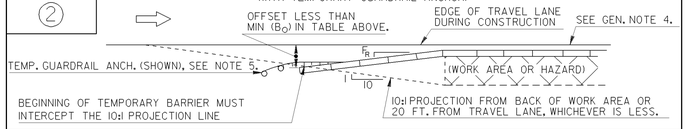
IF $L_W + L_O$ IS LESS THAN 20 FT. FOR THE WORK AREA OR THE TRAILING END, THEN THE 10"X10" PANELS SHALL BE REFLECTORIZED ON BOTH SIDES.

MINIMUM LENGTH OF TAPER REQUIRED
$b_o = B_o - L_o$
$T_L = b_o \times F_R$

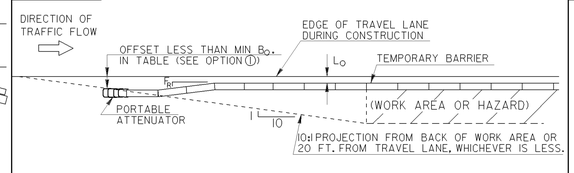
POSTED SPEED ON THE ROADWAY	DESIRABLE MINIMUM LATERAL OFFSET (FT.) L_O	FLARE RATE F_R	B_O MINIMUM OFFSET TO BARRIER END (FEET)
30-40 MPH	2	5:1	13
45-50 MPH	2	6:1	16
55 MPH	2	8:1	23
60-70 MPH	2	8:1	30

NOTE: INTERMEDIATE SPEEDS MAY UTILIZE AVERAGE VALUES.

OPTION ② — MINIMUM BARRIER ADVANCEMENT LENGTH (WITH TEMPORARY GUARDRAIL ANCHOR)



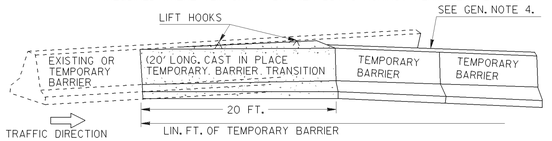
OPTION ③ — PORTABLE ATTENUATOR TERMINAL



NOTES:
1. SEE SPECIFICATION SECTIONS 648 AND 150.
2. SEE CONSTRUCTION DETAIL G-11 FOR NON-GATING ATTENUATORS.
3. SEE GENERAL NOTE NO. 4.

OPTION ④ — TEMPORARY BARRIER TRANSITION - CAST - IN - PLACE

(REQUIRED WHERE TEMPORARY BARRIER BUTTS AGAINST PERMANENT BARRIER)



NOTES:
1. COVER PERMANENT BARRIER, PAVEMENT, & PRECAST SECTIONS WITH POLYETHYLENE AS A BOND BREAKER.
2. PLACE BARRIER SIDE FORMS AGAINST PERMANENT & TEMP. BARRIER TO FORM SMOOTH TRANSITION.
3. USE CLASS "A" CONCRETE, A TYPE I FINISH IS SUFFICIENT.
4. TRANSITION SHALL BE COMPLETED BEFORE TEMPORARY BARRIER IS EXPOSED TO ON-COMING TRAFFIC.
5. TRANSITION IS NOT REQ'D. AT TRAILING END OF ONEWAY TRAFFIC FLOW.
6. TRANSITION WILL BE PAID FOR AS TEMPORARY BARRIER. PAYMENT INCLUDES REUSE, REMOVE AND DISPOSAL. TEMPORARY MEDIAN TRANSITION WILL BE PROVIDED BY THE CONTRACTOR WITH PAYMENT MADE AT THE PRICE BID FOR BARRIER AS SPECIFIED IN THE PLANS.

END TREATMENT FOR BARRIER TERMINAL

WHERE BARRIER END OFFSETS REQUIRED IN OPTION ① CAN NOT BE OBTAINED THEN, A TEMPORARY GUARDRAIL ANCHORAGE AT THE BARRIER END WILL BE REQUIRED AS PER OPTION ②. IF INSTALLATION OF GUARDRAIL ANCHORAGE IS NOT PRACTICAL DUE TO LOCAL CONDITIONS, A TEMPORARY PORTABLE IMPACT ATTENUATOR SHOULD BE USED AT THE BARRIER END AS PER OPTION ③.

① = FIRST OPTION, MINIMUM OFFSET IS OBTAINED.

② = SECOND OPTION, TEMPORARY GUARDRAIL ANCHORAGE, AS SPECIFIED.

③ = THIRD OPTION, PORTABLE ATTENUATOR.

④ = FOURTH OPTION, TERMINATE WITH A CAST-IN-PLACE TRANSITION.

⑤ = FIFTH OPTION, CONNECT TO GUARDRAIL.

GENERAL NOTES:

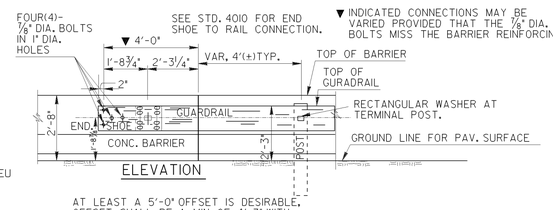
1. BARRIERS SHALL BE PLACED SUCH THAT OPENINGS BETWEEN INDIVIDUAL SECTIONS SHALL BE KEPT TO A MAXIMUM. ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE CONNECTED AS REQUIRED BY GA. STANDARD 9161 AND/OR MANUFACTURERS RECOMMENDATIONS.
2. THE BARRIER IS NOT TO BE CONNECTED TO THE BRIDGE DECK BY CONNECTING PINS OR REBAR UNLESS AN APPROVED METHOD FOR CONNECTION IS REQUIRED.
3. PRECAST BARRIER SECTIONS SHALL CONFORM TO THE DIMENSIONAL REQUIREMENTS IN GA. STANDARD 9161 AND/OR MANUFACTURERS RECOMMENDATIONS.
4. TRAFFIC CONTROL NOT SHOWN ON THIS STANDARD SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF SECTION 150, STANDARDS, CONSTRUCTION DETAILS AND/OR PLAN SHEETS. DRUMS, ETC. SHOWN FOR OPTION ① SHALL BE APPLICABLE FOR THE OTHER OPTIONS AS WELL. DRUMS SHALL BE PROVIDED IN ADVANCE OF TEMPORARY BARRIERS INSTALLATION AND SHALL BE IN PLACE BEFORE THE BARRIER IS INSTALLED AND REMOVED AFTER THE BARRIER IS REMOVED.
5. WHERE TEMPORARY GUARDRAIL ANCHORAGE IS SPECIFIED, THE FIRST BREAKAWAY SHALL BE 37'-6" MINIMUM IN ADVANCE OF BEGINNING THE TEMPORARY BARRIER INSTALLATION.
6. PAYMENT FOR TEMORARY GUARDRAIL ANCHORS INCLUDES END SHOE, CONNECTING BOLTS, NUTS AND WASHERS, ADDITIONAL POSTS AND OFFSETS BLOCKS, 25 FT. ADDITIONAL "W"-BEAM WITH THE DOUBLE NESTED SECTION PLUS STANDARD ANCHORAGE COMPONENTS. (TOTAL LENGTH=62'-6"(±) MIN.
7. UNACCEPTABLE OR NON-STANDARD END TREATMENT WILL NOT BE LEFT IN PLACE AFTER REMOVAL OF THE TEMPORARY BARRIER, ALL GUARDRAIL AND ALL ANCHORAGES LEFT IN PLACE WILL BE TREATED AS NECESSARY TO CONFORM WITH CURRENT STANDARDS IMMEDIATELY AFTER REMOVAL OF THE TEMPORARY BARRIER.

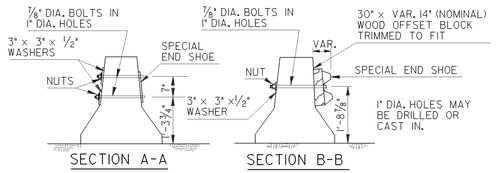
OPTION ⑤ — TEMPORARY CONCRETE BARRIER/GUARDRAIL CONNECTIONS & JUNCTIONS

NOTE:
PAYMENT FOR TEMPORARY CONCRETE BARRIER WILL INCLUDE ALL SPECIAL END SHOES, BOLTS, BOLT HOLES, NUTS, WASHERS, ADDITIONAL GUARDRAIL POSTS, ETC., NECESSARY FOR THE CONNECTIONS, AS SHOWN, WHEN REQUIRED.

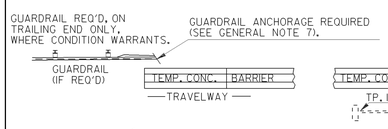
ALL SPECIAL END SHOES WILL BE CONNECTED TO CONCRETE BARRIER WITH FOUR ⅞" DIA. BOLTS (A.S.T.M. A-307). LOCATION OF THE BOLTS MAY BE VARIED AT THE DIRECTION OF THE ENGINEER. REMOVABLE TYPE ⅞" DIA. CONCRETE ANCHOR BOLTS, INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, MAY BE USED INSTEAD OF THE BOLTS CONNECTION SYSTEM SHOWN. ANY BOLTS BROKEN OR IMPROPERLY INSTALLED WILL BE CAUSE FOR REJECTION.

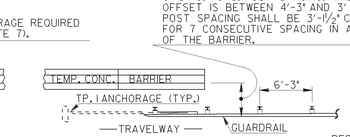
⅞" THREADED RODS WITH NUTS AND WASHERS MAY BE USED IN LIEU OF ⅞" BOLTS.

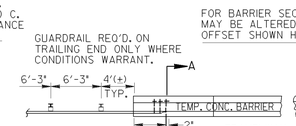


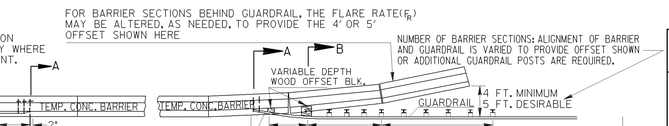


AT LEAST A 5'-0" OFFSET IS DESIRABLE, OFFSET SHALL BE A MIN. OF 4'-3" WITH 6'-3" C. TO C. POST SPACING. WHEN OFFSET IS BETWEEN 4'-3" AND 3' MIN. POST SPACING SHALL BE 3'-1½" C. TO C. FOR 7 CONSECUTIVE SPACING IN ADVANCE OF THE BARRIER.









STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BY	REVISION	DATE
GLO	REVISED ALL OPTIONS AND REV. REFLECTIVE SHEETING	5-10-07
RMJ	TYPE AND GENERAL NOTES. COM. SR. SPEC.	2-1-01

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

TEMPORARY BARRIER
(END TREATMENT OPTIONS)

NO SCALE — REV. & REDR. MAY, 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 4960

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING NO. 41-031

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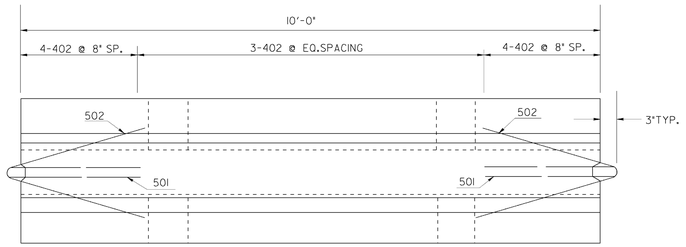
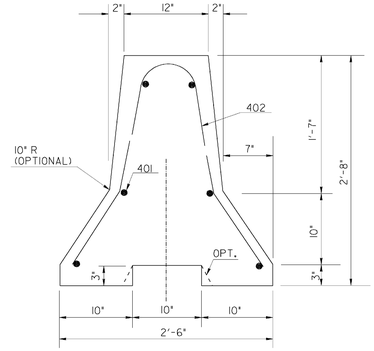
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

PRECAST CONCRETE BARRIER DETAILS

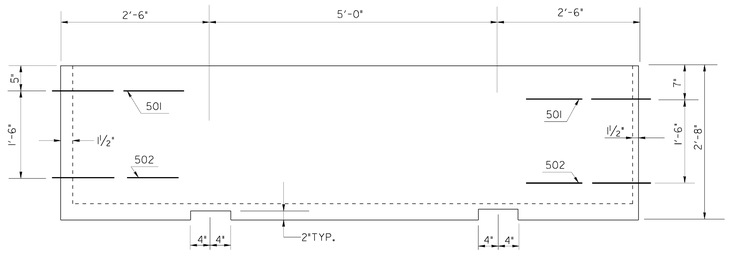


PLAN

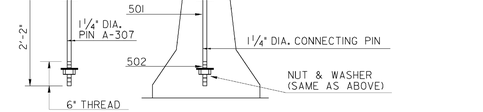


END ELEVATION

NOTE:
BARRIER SECTIONS SHALL BE CONNECTED TOGETHER WITH THE 1¼" DIA. A-307 DOUBLE HEX CONNECTION BOLT. THE BOTTOM NUT & WASHER SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE BARRIER INSTALLATION.



SIDE VIEW



PIN CONNECTION

✳AN ALTERNATE CONNECTING PIN WITH A FUSED NUT ON THE TOP THREADED PORTION AND NUT AND WASHER AS SPECIFIED ON THE BOTTOM MAY ALSO BE USED.

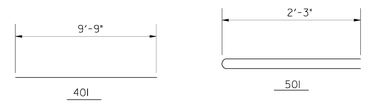
GENERAL NOTES:

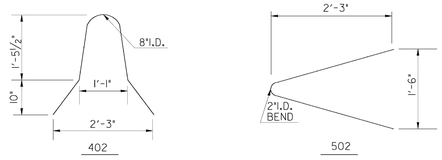
1-MATERIALS: CLASS 'A' CONCRETE AND 40 STEEL.

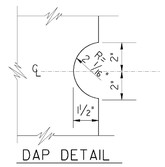
2-SEE GA. SPECIFICATIONS FOR BASIS OF PAYMENT AND METHOD NO.___.

3-REINFORCEMENT, HAVING AN AREA AT LEAST EQUAL TO REBARS SHOWN, MAY BE USED AS AN ALTERNATE.

4-BARRIERS SHALL BE PLACED SUCH THAT OPENINGS BETWEEN INDIVIDUAL SECTIONS SHALL BE KEPT TO A MAXIMUM.







DAP DETAIL

REV. CONNECTION WASHER AND REV. GEN. NOTE NO. 4.	9-8-06
REV. REBAR & PIN CONN.	5-2-01
COTTER PIN REQUIREMENT REVISION	5-10-96
BY	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DETAILS OF PRECAST TEMPORARY BARRIERS

NO SCALE — AUG., 1995

G.L.D. R.M.U.

DES. ____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
DRW. ____
TRA. ____ (APPROVED) CHIEF ENGINEER
CHK. ____

NUMBER 4961

RELEASED FOR CONSTRUCTION 12/02/10

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-032

3/1/2007 GPLN

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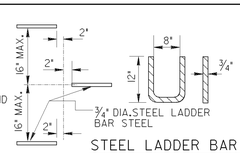
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

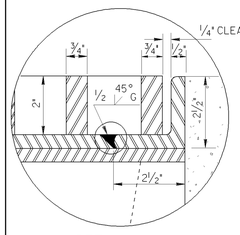
STEEL LADDER BAR STEPS



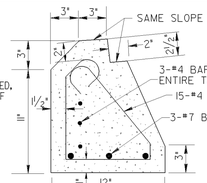
NOTES:
STEPS ARE REQ'D. ON ALL STRUCTURES WHERE H IS GREATER THAN 4'-0".

THE NUMBER AND LOCATION OF STEPS WILL BE AS DIRECTED BY THE ENGINEER

AN ALTERNATE STEP MAY BE SUBSTITUTED, IF APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH.

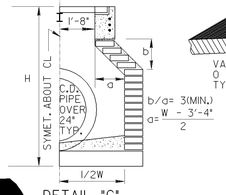


DETAIL A

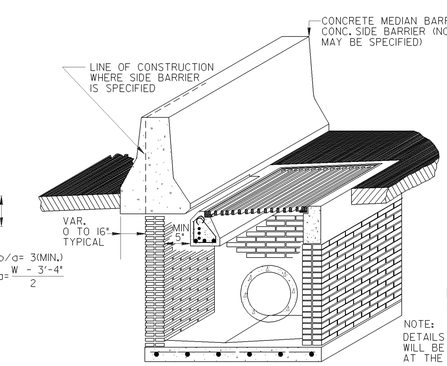


OPTION: BEAM MAY BE PRECAST

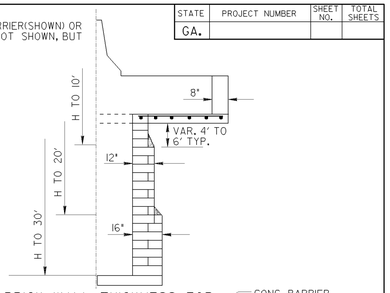
DETAIL B



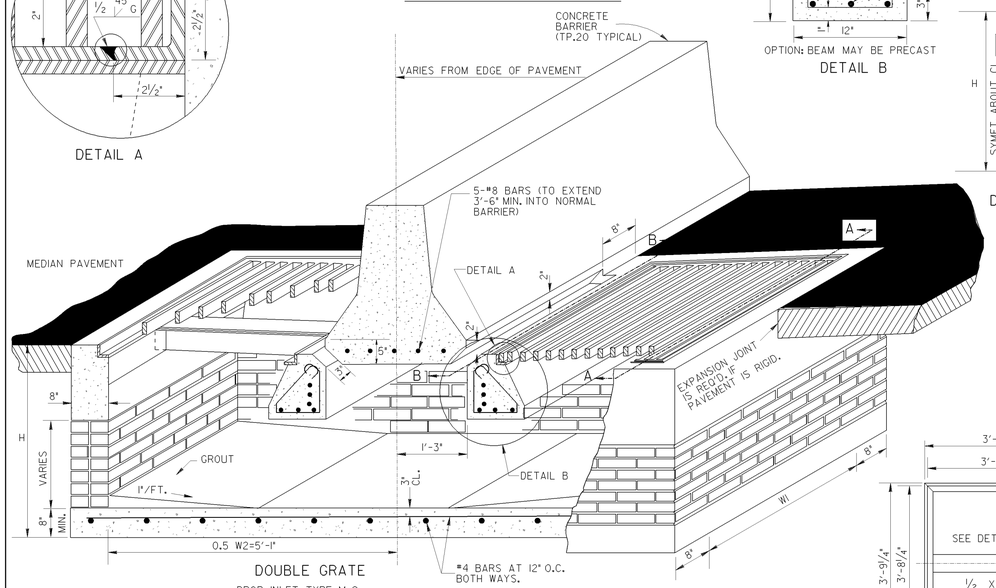
DETAIL "C"



SINGLE GRATE
DROP INLET TYPE M-1



BRICK WALL THICKNESS FOR ADD'L HEIGHTS



DOUBLE GRATE
DROP INLET TYPE M-2

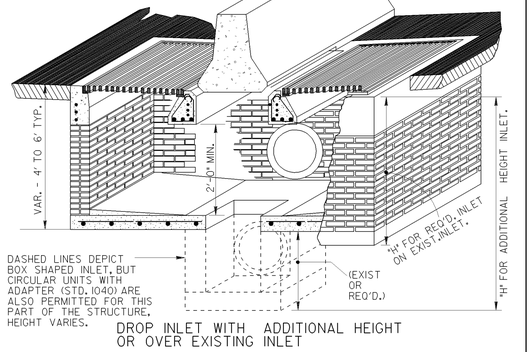
#4 BARS AT 12" O.C. BOTH WAYS.

MINIMUM DIMENSIONS: INLET WITH CROSS DRAIN PIPE

PIPE SIZE	W1	α	ß	MIN. H
15"	3'-0"	—	—	3'-10"
18"	3'-0"	—	—	4'-2"
24"	3'-0"	—	—	4'-9"
30"	3'-6"	1°	3°	5'-4"
36"	4'-0"	4°	1'-0"	6'-4"
42"	4'-6"	7°	1'-9"	7'-8"
48"	5'-0"	10°	2'-6"	9'-0"
54"	5'-6"	1'-1"	3'-3"	10'-4"
60"	6'-0"	1'-4"	4'-0"	11'-8"

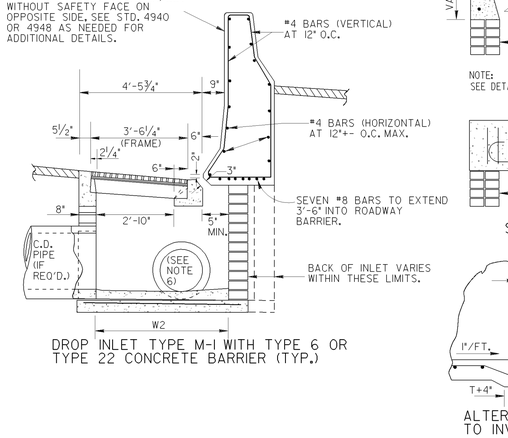
MINIMUM DIMENSIONS: INLET WITH LONGITUDINAL PIPE

PIPE SIZE	T+M-1 W2	T+M-2 W2	MIN. H
15"	4'-3"	10'-2"	3'-10"
18"	4'-3"	10'-2"	4'-2"
24"	4'-3"	10'-2"	4'-9"
30"	4'-3"	10'-2"	5'-4"
36"	4'-3"	10'-2"	5'-10"
42"	4'-10"	10'-2"	6'-6"
48"	5'-8"	10'-2"	7'-1"

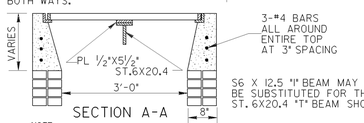


DROP INLET WITH ADDITIONAL HEIGHT OR OVER EXISTING INLET

(TYPE M-2 INLET SHOWN; CONSTRUCTION SIMILAR FOR TYPE M-1)

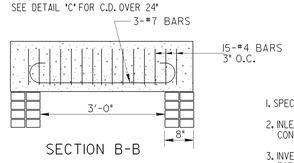


DROP INLET TYPE M-1 WITH TYPE 6 OR TYPE 22 CONCRETE BARRIER (TYP.)

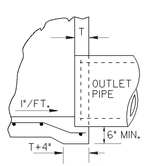


SECTION A-A

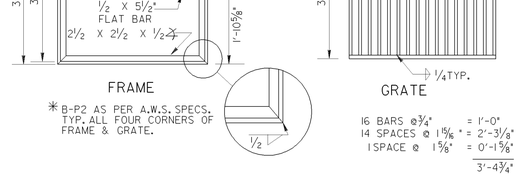
NOTE:
SEE DETAIL "C" FOR C.D. OVER 24"



SECTION B-B



ALTERNATE TO INVERT



FRAME

* B-P2 AS PER A.W.S. SPECS. TYP. ALL FOUR CORNERS OF FRAME & GRATE.

GRATE

16 BARS @ ¾" = 1'-0"
14 SPACES @ 1 5/16" = 2'-3⅛"
1 SPACE @ 1⅝" = 0'-1⅝"
3'-4¾"

GENERAL NOTES

1. SPECIFICATION : GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. INLETS SHALL BE DESIGNATED AS GROUP I (SEC. 668) UNLESS A CROSS DRAIN PIPE OVER 36" CONNECTS TO A REQUIRED PART OF THE INLET.
3. INVERTS AND PIPES SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS SHALL BE FORMED WITH GROUT OR CONCRETE AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. FOR CONCRETE BARRIER DETAILS NOT SHOWN, SEE SEPARATE STANDARDS OR PLAN DETAILS. IF THE ROADWAY BARRIER HAS REINFORCING STEEL, THE REINFORCING SHALL BE CONTINUED IN BARRIER SECTION ACROSS THE INLET. ADDITIONAL REINFORCING REQUIRED WHERE SHOWN.
5. BOTH THE GRATE AND THE FRAME SHALL BE EITHER A-36 STEEL; HOT-DIPPED GALVANIZED, A-123. AFTER FABRICATION OR A-588 STEEL; NOT GALVANIZED DRILL ½" DIA HOLE IN ONE FRAME CORNER FOR A-36 STEEL TO PREVENT BUILD-UP OF GALVANIZING MATERIAL.
6. IF BARRIER (OR WALL) FOOTING PREVENTS NORMAL LOCATION OF LOGITUDINAL PIPE, W2 MAY BE ENLARGED TO RECEIVE AN OFFSET LONGITUDINAL OR 18" DIA. 60° WYE CONNECTION MAY BE USED TO DRAIN NORMAL SIZE INLET INTO THE OFFSET LOGITUDINAL. WHERE WYE CONNECTIONS ARE USED, MANHOLES SHALL BE SPACED AT 600'+- INTERVALS IN PLACE OF WYE CONNECTION. IF DRAINAGE PERMITS, AND STRUCTURAL APPROVAL IS MADE, LONGITUDINAL PIPE MAY BE LOCATED UNDER THE FOOTING.

SPECIAL NOTE:
STANDARD 5001-M INLET GRATES ARE FOR USE ONLY ON LIMITED ACCESS TYPE FACILITIES.

DATE	REVISION	BY
6-14-10	REV. GEN. NOTES NO. 5 & 6	G.L.D.
6-30-98	REDRAWN	G.A.P.
8-15-97	ADD SPECIAL NOTE	R.M.U.
9-11-94	ADD NOTE 6	R.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DROP INLET TYPES M-1 & M-2
ADJACENT TO CONCRETE BARRIER

NO SCALE — MAY 1996

DES. W.W.S. (SUBMITTED) STATE DESIGN POLICY ENGINEER
DRW. L.G.S.
TRA. R.M.U.
CHK. R.K.C. (APPROVED) CHIEF ENGINEER

NUMBER 5001M
SHEET 1 OF 2

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

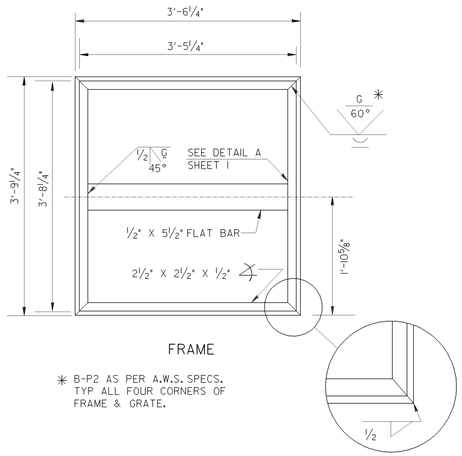
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-033

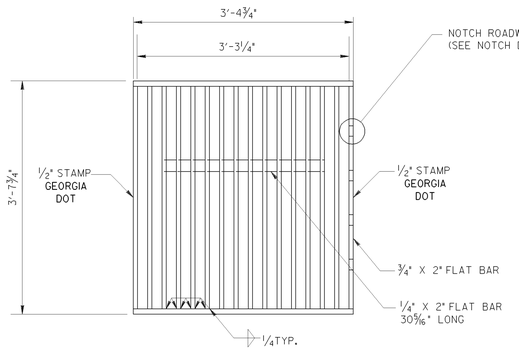
RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

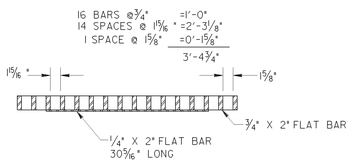


FRAME

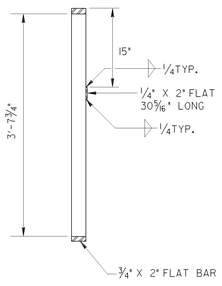
✳ B-P2 AS PER A.W.S. SPECS. TYP ALL FOUR CORNERS OF FRAME & GRATE.



GRATE

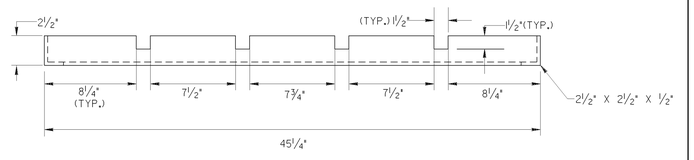


FRAME AND GRATE DETAIL

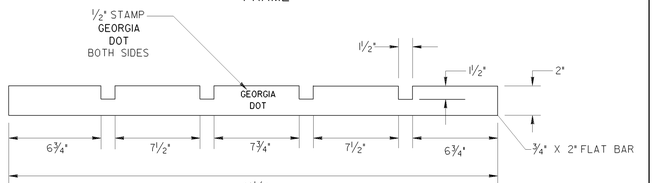


GENERAL NOTES:

1. SPECIFICATION : GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NO SEPERATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THE FABRICATION AND INSTALLATION OF THE SECURITY CHAIN.

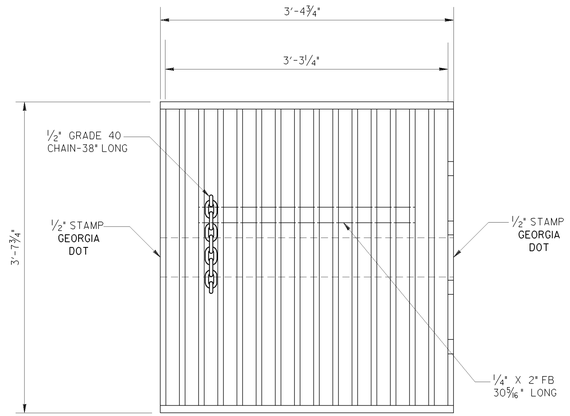


FRAME

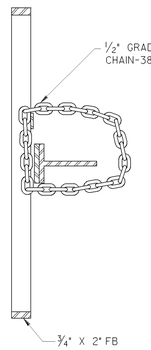


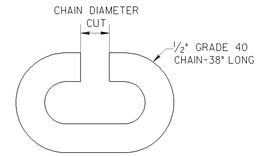
¾" X 2" FLAT BAR (1 REQ'D)

NOTCH DETAIL

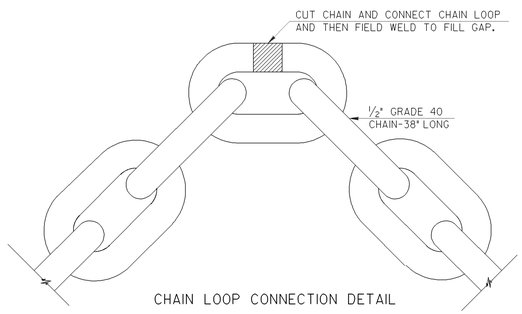


SECURITY CHAIN DETAIL

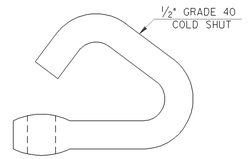




CUT CHAIN LINK DETAIL



CHAIN LOOP CONNECTION DETAIL



ALTERNATE CHAIN LOOP CONNECTION DETAIL

G.L.O.	6-14-10	ADDED CHAIN DETAILS	
C.L.P.	6-30-98	REDRAWN	
R.M.U.	8-15-97	ADD SPECIAL NOTE	
R.M.U.	9-1-94	ADD NOTE 6	
BY	DATE	REVISION	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DROP INLET TYPES M-1 & M-2
ADJACENT TO CONCRETE BARRIER

NO SCALE — MAY 1996

DES. W.W.S. (SUBMITTED) — STATE DESIGN POLICY ENGINEER
DRW. L.G.S.
TRA. R.M.U.
CHK. R.K.C.
(APPROVED) — CHIEF ENGINEER

NUMBER 5001M
SHEET 2 OF 2

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-034

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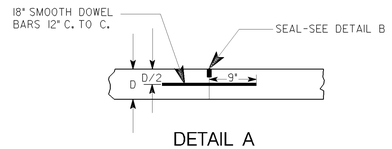
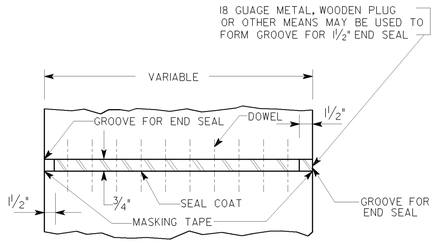


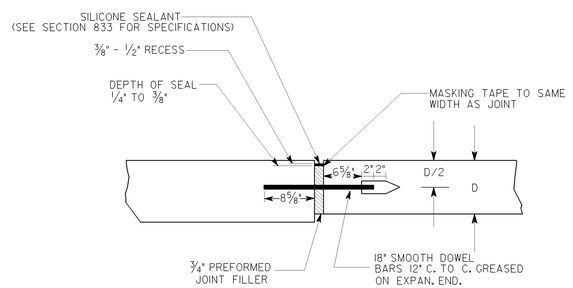
DETAIL A

TRANSVERSE CONSTRUCTION OR SAWED CONTRACTION JOINTS



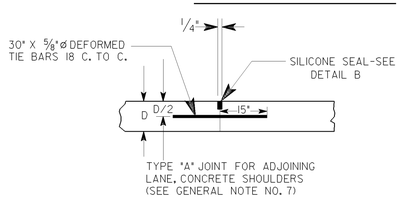
DETAIL C

PLAN OF TRANSVERSE EXPANSION JOINT BETWEEN PAVEMENT AND BRIDGE APPROACH SLAB



DETAIL D

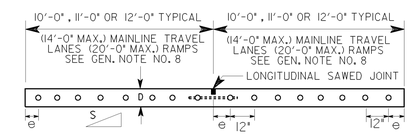
EXPANSION JOINT



DETAIL E

ADJOINING LANES, CONCRETE SHOULDER, LONGITUDINAL SAWED OR FORMED JOINTS

FOR DETAILS OF SHOULDER SEE PLANS



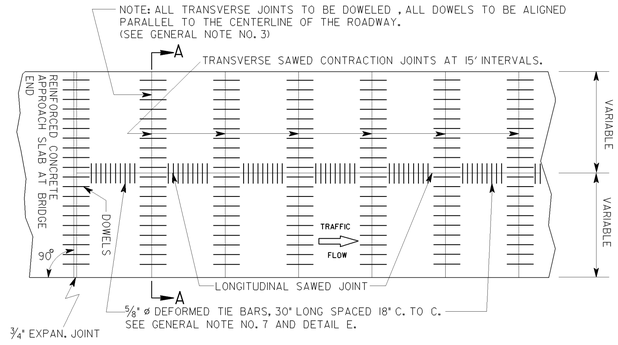
SEE PLANS FOR REQUIRED SLOPE

UNIFORM THICKNESS DOWELED PORTLAND CEMENT CONCRETE PAVING WITH CENTER JOINT AND TIE BARS AND 90° TRANSVERSE CONTRACTION JOINTS AT 15 FT. INTERVALS

e = 6' UNLESS SPECIFIED OTHERWISE

SECTION A-A

SECTION THROUGH TRANSVERSE JOINT

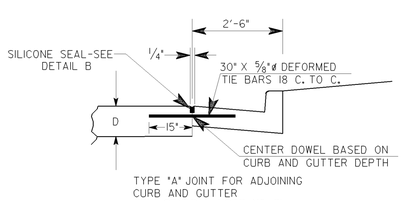


STANDARD JOINT LAYOUT

WHERE A NEW LANE WILL BE ADJOINING AN EXISTING P.C. CONCRETE PAVED LANE, THE SPACING FOR THE TRANSVERSE JOINTS IN THE NEW LANE WILL BE VARIED FROM THAT SHOWN ABOVE WHERE NECESSARY TO MATCH THE TRANSVERSE JOINTS IN THE EXISTING LANE. WHEN EXISTING PAVING JOINTS EXCEED 25 FEET IN LENGTH AN INTERMEDIATE TRANSVERSE JOINT WILL BE ESTABLISHED IN THE NEW LANE AT MID-SLAB.

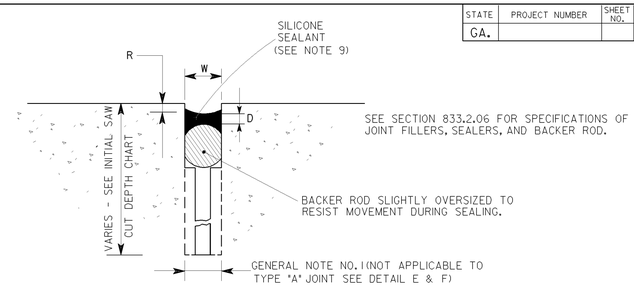
REQUIRED DOWEL BAR DIAMETERS

PAVEMENT THICKNESS (D)	DOWEL BAR DIAMETERS
6"	1¼"
7"	1¼"
8"	1¼"
9"	1¼"
10"	1½"
11"	1½"
12"	1½"



DETAIL F

ADJOINING CURB AND GUTTER



DETAIL B

CONTRACTION OR CONSTRUCTION JOINT

JOINT SCHEDULE			
TYPE	W	D	R
TRANSVERSE JOINT	¼"	¼"-⅜"	⅜" TO ½"
℄ LONGITUDINAL SAWED JOINT	¼"	¼"-⅜"	⅜" TO ½"
JOINT FOR ADJOINING LANE FOR TYPE "A" JOINT	¼"	¼"-⅜"	⅜" TO ½"

REQUIRED MINIMUM DEPTH OF INITIAL SAW CUT FOR LONGITUDINAL AND TRANSVERSE JOINTS. ALL INITIAL CUTS TO BE ⅛" IN WIDTH.

DEPTH OF PAVEMENT D	DEPTH OF CUT
6"	1⅞"
7"	2"
8"	2¼"
8½"	2⅜"
9"	2½"
10"	2¾"
11"	3"
12"	3¼"

GENERAL NOTES:

1. THE LOCATION OF THE INITIAL SAW CUT MAY VARY BETWEEN THESE LINES.
2. CONTRACTION JOINT FOR CONCRETE SHOULDERS SHALL CONFORM WITH TRANSVERSE SAWED CONTRACTION JOINT IN MAINLINE PAVEMENT.
3. TRANSVERSE JOINTS SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE LANE BEING PLACED, EXCEPT WHERE NEW LANES ARE PLACED AGAINST EXISTING LANES WITH SKEWED JOINTS. THE NEW JOINTS WILL MATCH THE SKEW OF THE EXISTING PAVEMENT.
4. JOINTS IN ACCELERATION AND DECELERATION LANES ARE TO COINCIDE WITH MAINLINE JOINTS, BUT MAY BE NORMAL TO ACCELERATION OR DECELERATION EDGE.
5. GA. STD. SPECIFICATIONS (SEC. 430) FOR TOLERANCE ON DOWELS.
6. CASES WHERE CONCRETE CURB AND GUTTER IS PLACED ADJACENT TO A CONCRETE ROADWAY SLAB, THE LONGITUDINAL JOINT SHALL BE SAWED AND SEALED OF FORMED AND SEALED AS A LONGITUDINAL JOINT AS SHOWN BY THE STANDARD.
7. NO TIE BAR SHALL BE LOCATED CLOSER THAN 18" TO A TRANSVERSE JOINT. WHERE NEW CONCRETE WILL BE ADJOINING EXISTING CONCRETE, DO NOT TIE NEW CONCRETE TO EXISTING CONCRETE.
8. SPACING BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 14'-0" FOR MAINLINE TRAVEL LANES. RAMP PAVEMENT SECTIONS OVER 14'-0" WIDE SHALL HAVE A LONGITUDINAL SAWED JOINT ALONG THE CENTERLINE AND THE SPACING BETWEEN LONGITUDAL JOINTS SHALL NOT EXCEED 20'-0".
9. WHEN SELF LEVELING SILICONE SEALANT IS USED, TOOLING OF THE SEALANT TO OBTAIN A CONCAVE SURFACE IS NOT REQUIRED IF SEALENT MEETS DIMENSIONS OF DETAIL B.

DATE	REVISION	BY
1-25-07	REV. DOWELS DIA. AND TRANSVERSE JTS. SPACING	GLO
8-9-02	AND REV. GEN. NOTE 8.	
4-3-2000	REV. GEN. NOTE 3, 7 & 8.	
	¼" TRANSVERSE JOINT	RMC

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
JOINT DETAILS FOR
PORTLAND CEMENT CONCRETE PAVING

NO SCALE — REV. & REDRAWN MAY, 1996

DES. DRW. TRA. CHK.

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 5046H

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RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-035

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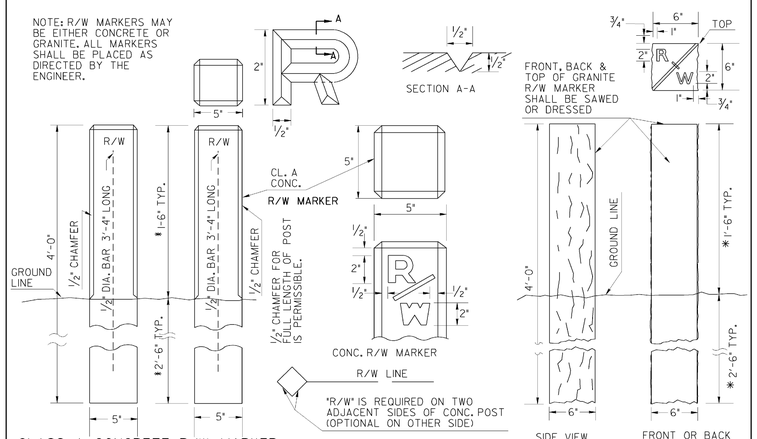
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DETAILS OF RIGHT OF WAY MARKERS

NOTE: R/W MARKERS MAY BE EITHER CONCRETE OR GRANITE. ALL MARKERS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.



* NOTE: WHERE DIRECTED BY THE ENGINEER, THE ABOVE GROUND HEIGHT OF ANY R/W MARKER SHALL BE REDUCED BY INCREASING THE DEPTH AS NEEDED WITH NO ADDITIONAL PAYMENT.

DATE	REVISION	BY
4-10-06	REDRAWN TO MATCH METRIC CA. STD. 9003	G.L.D.
6-30-98	REDRAWN	G.J.P.
9-28-90	REV. F.A.P. - SP POST ALT.	R.M.U.
10-11-88	VAR. HT. R/W MARKER	R.M.U.
5-24-85	ADD GRANITE R/W M.	R.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DETAILS OF MARKERS
FEDERAL AID AND STATE
RIGHT OF WAY MARKERS

NO SCALE — REV. & REDR. DEC., 1981

DES. ____
DRW. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 9003

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3/1/2007 GPLN

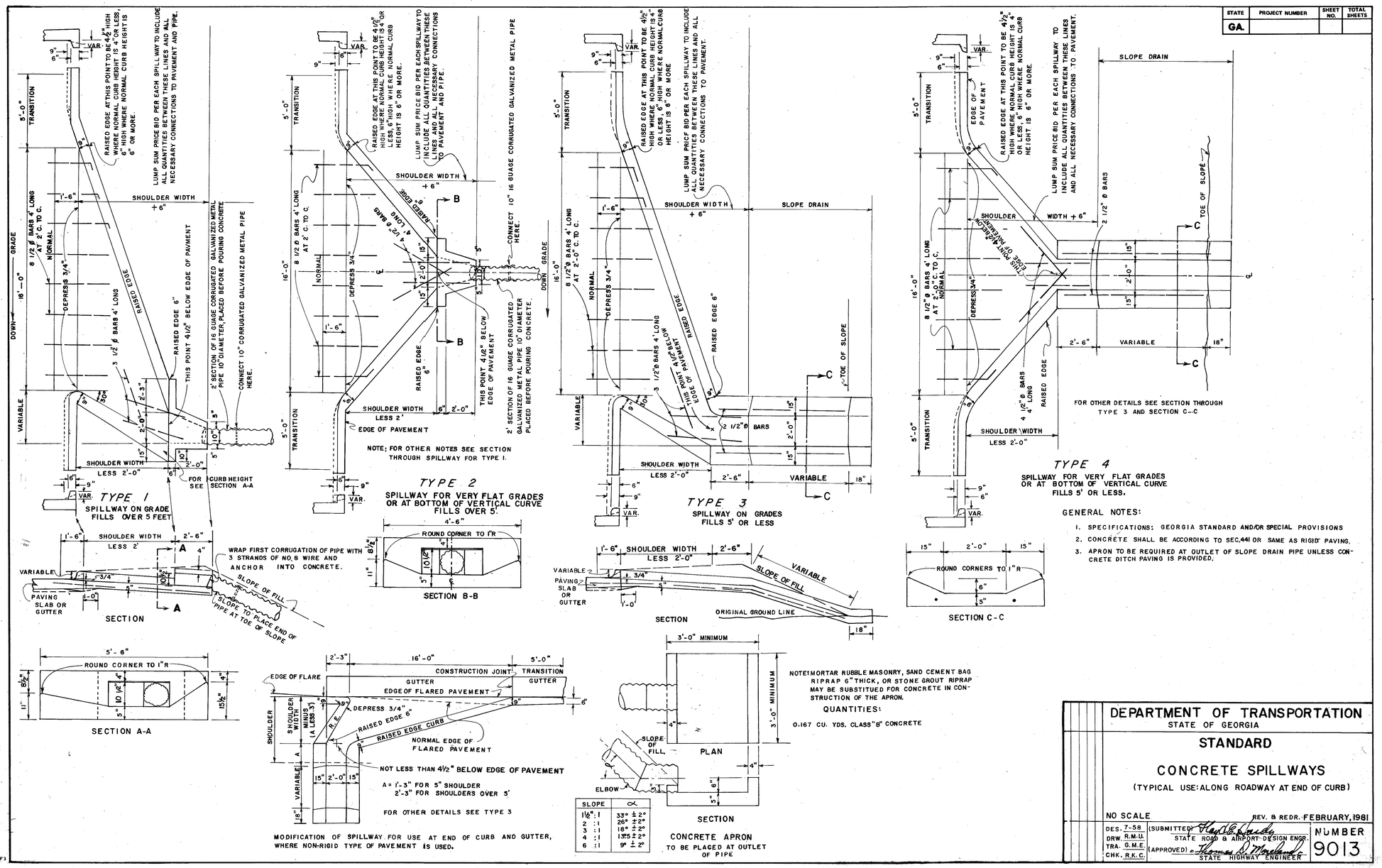
THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-036

RELEASED FOR CONSTRUCTION 12/02/10



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE SPILLWAYS
(TYPICAL USE: ALONG ROADWAY AT END OF CURB)

NO SCALE — REV. & REDR. FEBRUARY, 1981

DES. 7-58 | DRW. R.M.U. | TRA. G.M.E. | CHK. R.K.C.

(SUBMITTED) Harold E. Sandy — STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Moreland — STATE HIGHWAY ENGINEER

NUMBER 9013

FORM EF3

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-037

3/1/2007 GPLN

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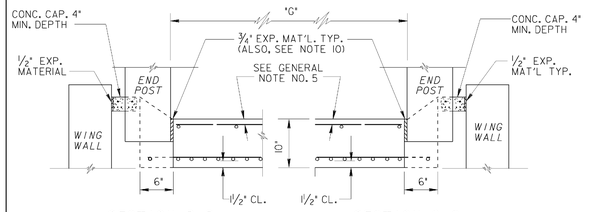
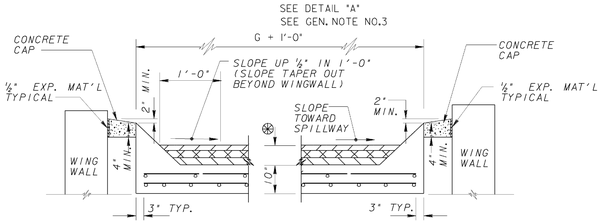


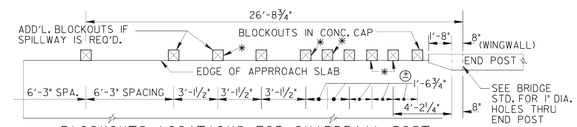
SECTION B-B SECTION C-C

NOTE: WHERE END POST INTERSECTS APPROACH SLAB, THE INTERCEPTED REINFORCING, BOTH LONGITUDINAL & TRAVERSE, SHALL BE SHORTENED AS NEEDED TO GIVE 3"* CLEARANCE TO END POST.



SECTION D-D (SHOWN WHERE SPILLWAY IS NOT REQ'D.) SECTION E-E (SHOWN WHERE SPILLWAY IS REQ'D.)

NOTE: BLOCKOUTS ARE OMITTED WHERE IT HAS BEEN VERIFIED THAT GUARDRAIL WILL NOT BE REQ'D.

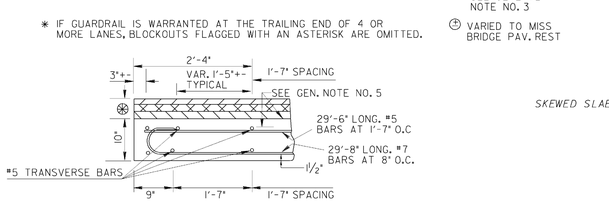


BLOCKOUTS LOCATIONS FOR GUARDRAIL POST

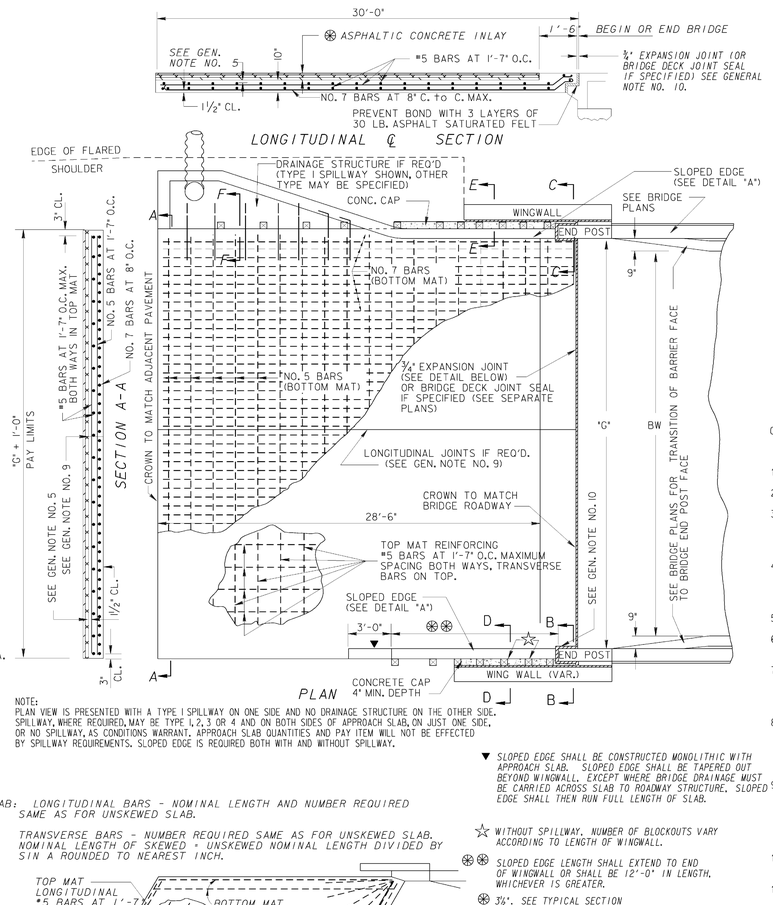
SEE GENERAL NOTE NO. 3

* IF GUARDRAIL IS WARRANTED AT THE TRAILING END OF 4 OR MORE LANES, BLOCKOUTS FLAGGED WITH AN ASTERISK ARE OMITTED.

Ⓣ VARIED TO MISS BRIDGE PAV. REST



TYPICAL LONGITUDINAL END VIEW



NOTE:
PLAN VIEW IS PRESENTED WITH A TYPE I SPILLWAY ON ONE SIDE AND NO DRAINAGE STRUCTURE ON THE OTHER SIDE. SPILLWAY, WHERE REQUIRED, MAY BE TYPE 1, 2, 3 OR 4 AND ON BOTH SIDES OF APPROACH SLAB, ON JUST ONE SIDE. OR NO SPILLWAY, AS CONDITIONS WARRANT. APPROACH SLAB QUANTITIES AND PAY ITEM WILL NOT BE EFFECTED BY SPILLWAY REQUIREMENTS. SLOPED EDGE IS REQUIRED BOTH WITH AND WITHOUT SPILLWAY.

▼ SLOPED EDGE SHALL BE CONSTRUCTED MONOLITHIC WITH APPROACH SLAB. SLOPED EDGE SHALL BE TAPERED OUT BEYOND WINGWALL, EXCEPT WHERE BRIDGE DRAINAGE MUST BE CARRIED ACROSS SLAB TO ROADWAY STRUCTURE. SLOPED EDGE SHALL THEN RUN FULL LENGTH OF SLAB.

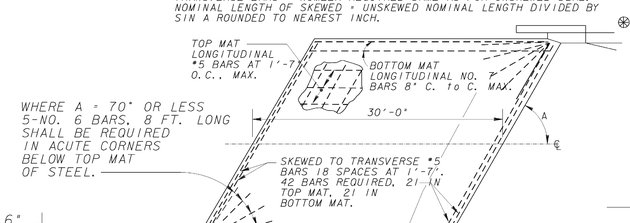
☆ WITHOUT SPILLWAY. NUMBER OF BLOCKOUTS VARY ACCORDING TO LENGTH OF WINGWALL.

⊛⊛ SLOPED EDGE LENGTH SHALL EXTEND TO END OF WINGWALL OR SHALL BE 12'-0" IN LENGTH, WHICHEVER IS GREATER.

⊛ ¾". SEE TYPICAL SECTION OR GENERAL NOTE NO. 2.

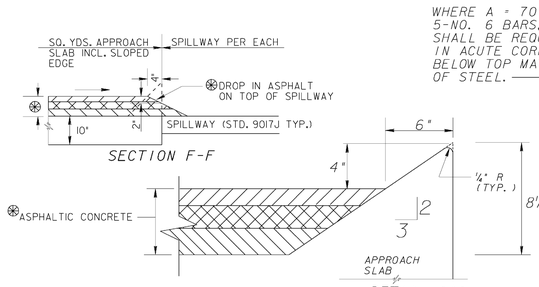
SKEWED SLAB: LONGITUDINAL BARS - NOMINAL LENGTH AND NUMBER REQUIRED SAME AS FOR UNSKEWED SLAB.

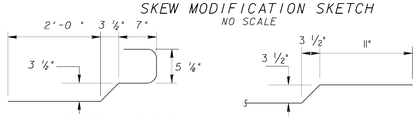
TRANSVERSE BARS - NUMBER REQUIRED SAME AS FOR UNSKEWED SLAB. NOMINAL LENGTH OF SKEWED = UNSKEWED NOMINAL LENGTH DIVIDED BY SIN A ROUNDED TO NEAREST INCH.

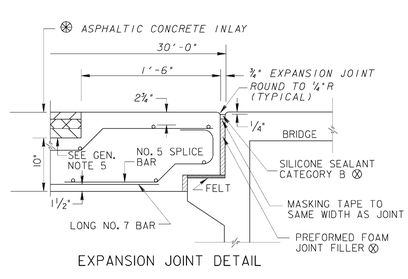


WHERE A = 70° OR LESS 5-NO. 6 BARS, 8 FT. LONG SHALL BE REQUIRED IN ACUTE CORNERS BELOW TOP MAT OF STEEL.

SKEW MODIFICATION SKETCH
NO SCALE







EXPANSION JOINT DETAIL

⊗ SEE SECTION 833. THICKNESS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS BASED ON JOINT WIDTH.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

QUANTITIES & REINFORCEMENT FOR TYPICAL SLAB SIZES **

BW	"C" (= BW + 1'-6")	SQ. YDS. OF APPR. SLAB (= (G+1')x 30 / 9)	BOTTOM MAT REINF. 29'-8" LONG *7 LONGIT. BARS -NUMBER- (= 1.5G + 1.75)	BOTTOM MAT REINF. 21 - * 5 TRAN. BARS -LENGTH- (= G + 6')	TOP MAT REINF. 29'-6" LONG *5 LONGIT. BARS -NUMBER- (= 1/19 (G+0.5)+1	TOP MAT REINF. 21 - * 5 TRAN. BARS -LENGTH- (= G + 6')
28'-0"	29'-6"	101.67	46	30'-0"	20	30'-0"
30'-0"	31'-6"	108.33	49	32'-0"	22	32'-0"
32'-0"	33'-6"	115.00	52	34'-0"	23	34'-0"
34'-0"	35'-6"	121.67	55	36'-0"	24	36'-0"
36'-0"	37'-6"	128.33	58	38'-0"	25	38'-0"
38'-0"	39'-6"	135.00	61	40'-0"	27	40'-0"
40'-0"	41'-6"	141.67	64	42'-0"	28	42'-0"
42'-0"	43'-6"	148.33	67	44'-0"	29	44'-0"
44'-0"	45'-6"	155.00	70	46'-0"	30	46'-0"
46'-0"	47'-6"	161.67	73	48'-0"	32	48'-0"
48'-0"	49'-6"	168.33	76	50'-0"	33	50'-0"
50'-0"	51'-6"	175.00	79	52'-0"	34	52'-0"
52'-0"	53'-6"	181.67	82	54'-0"	36	54'-0"
54'-0"	55'-6"	188.33	85	56'-0"	37	56'-0"
56'-0"	57'-6"	195.00	88	58'-0"	38	58'-0"
58'-0"	59'-6"	201.67	91	60'-0"	39	60'-0"
60'-0"	61'-6"	208.33	94	62'-0"	40	62'-0"

** DATA IN ABOVE TABLE ARE BASED UPON COMMON SLAB / BRIDGE WIDTHS. WHERE OTHER WIDTHS ARE ENCOUNTERED, THE FORMULAE AT COLUMN TOPS MAY BE USED IN DETERMINING ADDITIONAL DATA NEEDED.

NO. 5 SPLICE BARS NOT INCLUDED. NUMBER REQUIRED IS DOUBLE THAT FOR *7 LONGITUDINAL BARS SHOWN ABOVE. SEE NO.5 TOP MAT BAR BENDING DETAIL BELOW.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. USE THIS STANDARD WHERE THE ROADWAY PAVING IS ASPHALTIC CONCRETE.
3. THE CONCRETE CAPS ADJACENT TO THE APPROACH SLAB WILL HAVE HOLES APPROXIMATELY 9"x9", BLOCKED OUT FOR GUARDRAIL POST INSTALLATIONS (SEE DETAIL). PAYMENT FOR APPROACH SLAB WILL INCLUDE THE ½" EXPANSION MATERIAL & CONCRETE CAPS WITH BLOCKED OUT HOLES. (SEE DETAIL AT FAR LEFT).
4. WIDTH OF APPROACH SLAB IS NORMALLY DETERMINED BY DISTANCE BETWEEN FACES OF BRIDGE END POSTS. DETAILS SHOWN ARE BASED UPON THE BRIDGE BARRIER FACE BEING TRANSITIONED 9" TO FACE OF END POST ON EACH SIDE. SEE BRIDGE PLANS IF BARRIER IS CONTINUED ACROSS APPROACH SLAB INSTEAD. SEE STANDARD 9017M.
5. MINIMUM COVER OVER TOP MAT OF REINFORCING SHALL BE 2".
6. WHERE APPROACH SLAB IS INTERCEPTED BY THE BRIDGE END POST, EXTERIOR BARS WILL BE SHORTENED AS NEEDED TO GIVE A 3" CLEARANCE TO STRUCTURE.
7. PAY AREA FOR APPROACH SLAB SHALL BE COMPUTED AS A PRODUCT OF THE OVERALL SLAB WIDTH [(G+1')/3] TIMES THE LENGTH (30/3) WITH NO DEDUCTIONS MADE FOR AREAS OCCUPIED BY THE END POST & EXPANSION JOINTS OR BY DRAINAGE STRUCTURES, AND NO ADDITIONS MADE FOR SIDEWALKS OR OTHER ITEMS WHEN REQUIRED WITH THE APPROACH SLAB.
8. "CS" CONC. OR P.C. CONC. SUBBASE SHALL BE USED. CLEAR POLYETHYLENE SHEETING 8 MILS MIN. THICKNESS, WITH A 6" OVERLAP, UNIFORMLY LAID, SHALL BE REQUIRED UNDER THE APPROACH SLAB TO PREVENT BONDING. POLYETHYLENE SHEETING SHALL BE NEW, UNUSED AND FREE OF HOLES, RIPS AND TEARS. PRICE FOR SUBBASE SHALL BE INCLUDED IN OVERALL PRICE BID FOR APPROACH SLAB.
9. ALL APPROACH SLABS EXCEEDING 42' IN WIDTH WILL CONTAIN A LONGITUDINAL CONSTRUCTION JOINT. SLABS EXCEEDING 60' AND 90' IN WIDTH SHALL CONTAIN 2 AND 3 LONGITUDINAL CONSTRUCTION JOINTS RESPECTIVELY. SECTIONS BETWEEN JOINTS OR BETWEEN A JOINT AND SLAB EDGE SHALL NOT BE LESS THAN 12' OR MORE THAN 30' WIDE. REINFORCEMENT STEEL REMAINS UNCHANGED AND SHALL EXTEND THRU JOINTS. JOINTS SHALL BE LOCATED AT LANE LINES TO PROVIDE OFFSET FROM WHEELPATHS.
10. SEAL JOINT BETWEEN APPROACH SLAB AND END POST WITH LOW MODULUS SILICONE SEALANT. JOINT WIDTH BEHIND ENDPOST SHALL MATCH JOINT WIDTH BETWEEN APPROACH SLAB AND BRIDGE.
11. ASPHALTIC CONCRETE INLAY SHALL BE PAID UNDER ROADWAY PAY ITEM FOR ASPHALTIC CONCRETE.

DM. SLOPED EDGE	9-20-02
GEN. REV.	9-18-01
REV. ASPH. CONC. INLAY	6-14-01
REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
REINFORCED CONCRETE APPROACH SLAB WITH ASPHALT INLAY

30 FT. LENGTH

TYPICAL USE : WHERE SHOULDER IS ADJACENT TO ROADWAY AND/OR BRIDGE

SCALE AS SHOWN AUG. 1999

S.V.M.	BY	DES.	(SUBMITTED)	STATE ROAD & AIRPORT DESIGN ENGR.	NUMBER
		DRV.			9017R
		TRA.	(APPROVED)	CHIEF ENGINEER	
		CHK.			

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3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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(770) 263-9118

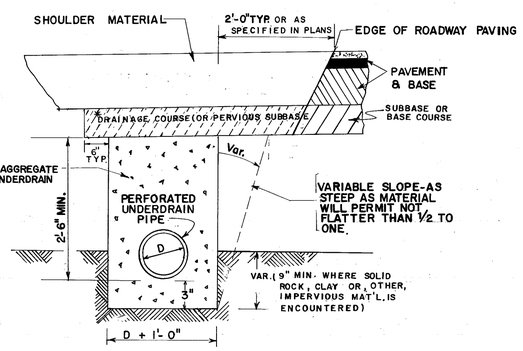
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

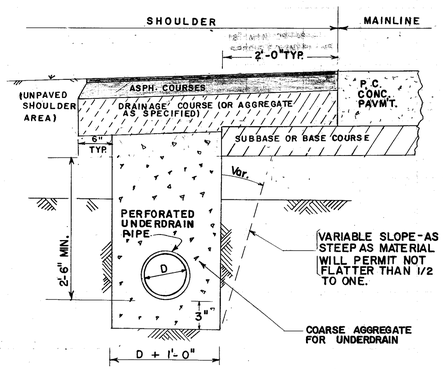
DRAWING No. 41-038

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	533	668

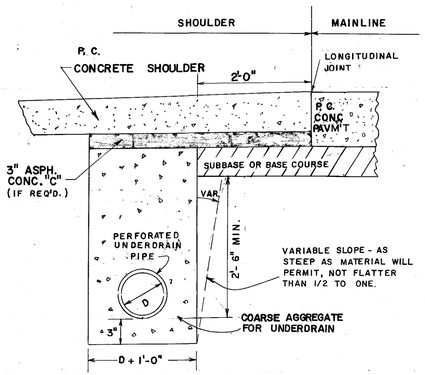
RELEASED FOR CONSTRUCTION 12/02/10



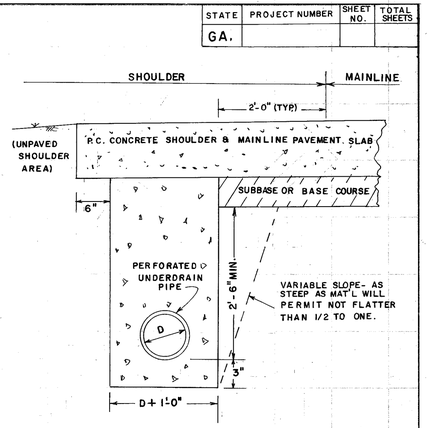
GENERAL DETAIL



ASPHALT SHOULDER - P.C.C. PAVEMENT



UNDER CONCRETE SHOULDER



UNDER CONCRETE SHOULDER*

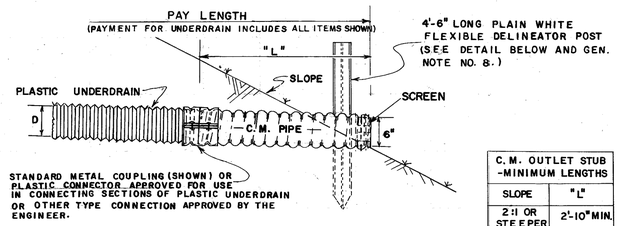
*CONSTRUCTED MONOLITHIC WITH MAINLINE 4'-0" PAVED SHOULDER SHOWN

PERFORATED UNDERDRAIN — TYPICAL INSTALLATIONS

*NOTE: PERFORATED UNDERDRAIN PIPE WILL BE INSTALLED COMPLETE PRIOR TO PLACING PERVIOUS SUB-BASE OR DRAINAGE COURSE.

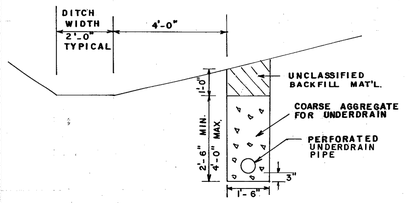
OUTLET DETAIL FOR PLASTIC UNDERDRAIN

(REQUIRED AT ALL OUTLETS WHERE PERFORATED PLASTIC UNDERDRAIN IS TERMINATED ON SLOPES).



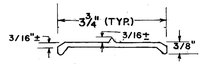
NOTE : "L" = MINIMUM LENGTH OF CORRUGATED METAL PIPE SECTION. THE C.M. OUTLET STUB SECTION MAY BE PERFORATED OR MAY BE NON-PERFORATED.

C.M. OUTLET STUB -MINIMUM LENGTHS	
SLOPE	"L"
2:1 OR STEEPER	2'-10" MIN.
2+:1 TO 4:1	5'-0" MIN.
4+:1 TO 6:1	10'-0" MIN.
FLATTER THAN 6:1	14'-0" MIN.



ADJACENT TO DITCH

NOTE: ALTERNATE FLEXIBLE DELINEATORS PERMITTED IF APPROVED BY THE D.O.T. LABORATORY.



DELINEATOR POST SECTION (TYP.)

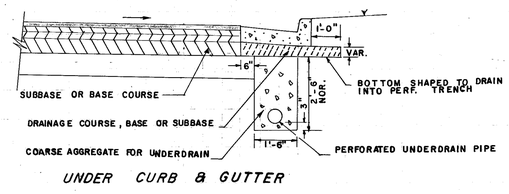
COLOR: WHITE

LENGTH: 4'-6" (from top to bottom point)

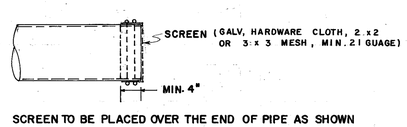
SPECIFICATION: SEC. 911 (EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED)

SPECIAL NOTE:

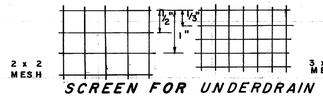
DETAILS SHOWN HERE ARE TYPICAL AND MAY BE USED BY THE DESIGNER AS A GUIDE IN PREPARING TYPICAL SECTIONS. MINIMUM TRENCH DEPTHS & TRENCH WIDTHS SHOULD BE ADHERED TO AS SHOWN HOWEVER. SHOULDER DETAILS, PAVEMENT DESIGNS, DRAINAGE COURSES, ETC., WILL BE AS SHOWN ON THE TYPICAL SECTIONS FOR THE PROJECT AND MAY VARY FROM THE DEPICTIONS ABOVE.
ON CONSTRUCTION, THE TYPICAL SECTIONS IN THE PLANS SHOULD BE USED FOR SPECIFIC DETAILS. IF UNDERDRAIN IS NOT SHOWN ON THE TYPICAL SECTIONS OR ELSEWHERE IN THE PROJECT PLANS, INSTALLATION WILL BE AS SHOWN ABOVE AND AS DIRECTED BY THE ENGINEER.



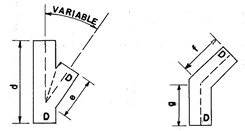
UNDER CURB & GUTTER



SCREEN TO BE PLACED OVER THE END OF PIPE AS SHOWN AND SECURED FIRMLY IN PLACE BY WRAPPING GALVANIZED WIRE AROUND PIPE. AND SCREEN OTHER METHODS FOR SECURING SCREEN FIRMLY OVER END OF PIPE MAY BE USED IF APPROVED BY THE ENGINEER.



SCREEN FOR UNDERDRAIN



GENERAL NOTES.

1. UNDERDRAINS MAY BE PLACED IN SHOULDER AREAS OR AS TRANSVERSE DRAINAGE UNDER PAVEMENT. SEE TYPICAL SECTION AND PLAN AND PROFILE SHEETS FOR SPECIAL CONDITIONS.
2. TRENCH SHALL BE SHAPED WITH SIDES AS NEARLY VERTICAL AS IS PRACTICAL AND WITH A FLAT BOTTOM.
3. MINIMUM GRADIENT FOR UNDERDRAIN PIPE SHALL BE 0.15% .
4. MAXIMUM DISTANCE BETWEEN OUTLETS SHALL BE 400' TO 500' WHERE CONDITIONS PERMIT.
5. DEAD ENDS OF PIPE SHALL BE CLOSED WITH METAL OR PLASTIC CAPS OR CONCRETE PLUGS. OUTFALL ENDS OF PIPE SHALL BE EQUIPPED WITH SCREEN.
6. LATERAL CONNECTIONS SHALL BE MADE WITH SUITABLE STANDARD FITTINGS. (ELLS, WYES OR TEES AS DETAILED)
7. THE DIMENSIONS (a thru g) SHOWN ON THE LATERAL CONNECTIONS FOR THE VARIOUS KINDS AND SIZES OF PERFORATED UNDERDRAIN SHALL BE IN AGREEMENT WITH THE MANUFACTURERS' STANDARD PRACTICE.
8. PLAIN WHITE (NO REFLECTIVE SHEETING) FLEXIBLE DELINEATOR POSTS WILL BE REQUIRED AT ALL OUTLETS EXITING ON SLOPES, BUT NOT REQUIRED IF UNDERDRAIN EXITS IN CONC. DITCH PAVING, DROP INLETS, ETC., POSTS. WILL BE 2 FT. ± IN THE GROUND PLACED AS DIRECTED BY THE ENGINEER, SO AS TO BE MOST VISIBLE TO MOWERS, PAYMENT FOR UNDERDRAIN WILL INCLUDE THE DELINEATORS.

R.M.U. ADD C & G DITCH INSTALL 8-7-83
R.M.U. Add. Monolithic Conc. Sh. 5-27-81
R.M.U. FLEXIBLE DELINEATOR 1-20-81

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

PERFORATED UNDERDRAIN

NO SCALE — REV. & REDR. JULY 1980

REV. R.M.U.
T.R.A. G.M.E.
CHK. R.K.C.

SUBMITTED: STATE ROAD AND AIRPORT DESIGN ENGR.
APPROVED: Thomas D. Moseley
STATE HIGHWAY ENGINEER

NUMBER 9029B

FORM EF3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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GEORGIA STANDARDS

DRAWING No. 41-039

3/1/2007 GPLN

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RELEASED FOR CONSTRUCTION 12/02/10

SEE T-22A and T-22B FOR BRIDGE DELINEATION DETAILS

RECOMMENDED SPACING FOR DELINEATORS

DELINEATORS SHOULD NORMALLY BE SPACED 528' APART. WHERE SUCH IS INTERRRUPTED BY DRIVEWAYS, CROSSROADS, ETC., AND WHERE UNDER THE NORMAL SPACING, A DELINEATOR WOULD FALL WITHIN SUCH AN AREA, THAT DELINEATOR MAY BE MOVED IN EITHER DIRECTION A DISTANCE NOT EXCEEDING 1/4 (132') OF THE NORMAL SPACING. IF SUCH DELINEATOR STILL FALLS WITHIN THAT AREA, IT SHOULD BE ELIMINATED. SEE TABLE BELOW FOR RECOMMENDED SPACING OF HORIZONTAL CURVES.

TABLE SPACING (1) FOR DELINEATORS ON HORIZONTAL CURVES

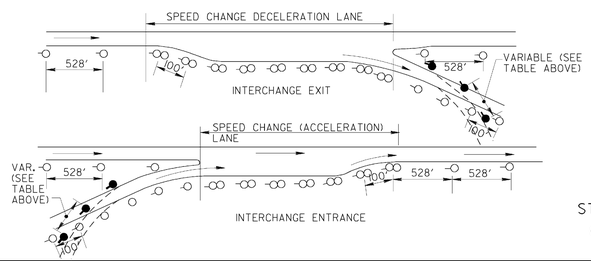
RADIUS OF CURVE (IN FEET)	SPACING ON CURVE (IN FEET)	SPACING IN ADVANCE & BEYOND CURVE (IN FEET) (MAINLINE ONLY)		
		1ST	2ND	3RD
50	20	40	65	125
150	30	60	90	180
200	35	70	110	215
250	40	85	125	250
300	50	95	145	290
400	55	110	170	300
500	65	125	190	300
600	70	140	210	300
700	75	150	230	300
800	80	165	245	300
900	85	175	260	300
1000	90	185	275	300

(1) SPACING, S, FOR SPECIFIC RADII NOT SHOWN MAY BE INTERPOLATED FROM THE TABLE OR COMPUTED FROM THE FORMULA $S=3\sqrt{R}-50$, WHERE R IS THE RADIUS OF CURVATURE IN FT. AND S IS ROUNDED TO THE NEAREST 5 FT. THE SPACING TO THE FIRST DELINEATOR IN ADVANCE OF THE CURVE IS 2S, TO THE SECOND 3S, AND THE THIRD 6S, BUT NONE TO EXCEED 300 FEET. MINIMUM SPACING IS 20 FEET.

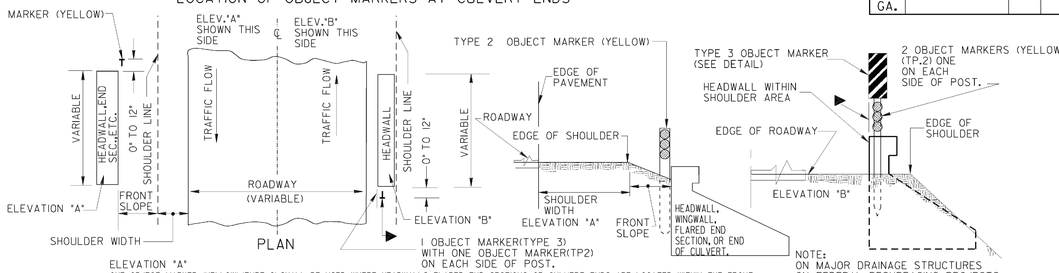
LOCATION OF DELINEATORS ON FREEWAY & EXPRESSWAY TYPE HIGHWAYS

TYPES OF DELINEATORS, ERECTION LOCATION, AND SPACING SHALL BE AS FOLLOWS.

- ○ SINGLE CRYSTAL(WHITE) REFLECTOR UNITS (TYPE 1 DELINEATOR) ON RIGHT SIDE OF MAINLINE AT 528 FOOT SPACING & ON RT. SIDE OF RAMP TGT. SECTIONS AT 100 FOOT SPACING FROM PHYSICAL CORE TO RAMP TERMINUS.
- ○○ DOUBLE CRYSTAL(WHITE) REFLECTOR UNITS (TYPE 2 DELINEATOR) ON RIGHT SIDE OF SPEED CHANGE (ACCELERATION & DECELERATION) LANES THAT ARE ON RIGHT SIDE OF MAINLINE AT 100 FOOT SPACING FROM TAPER TO PHYSICAL CORE.
- ● (YELLOW) SINGLE YELLOW REFLECTOR UNITS (TYPE 1 DELINEATOR) ON LEFT SIDE OF RAMP HORIZONTAL CURVES & ON LEFT SIDE OF MAINLINE HORIZONTAL CURVES GREATER THAN 3° CURVATURE.
- ●● (YELLOW) DOUBLE YELLOW REFLECTOR UNITS (TYPE 2 DELINEATOR) ON LEFT SIDE OF SPEED CHANGE (ACCELERATION & DECELERATION) LANES THAT ARE ON LEFT SIDE OF MAINLINE AT 100 FOOT SPACING FROM TAPER TO PHYSICAL CORE.
- ● (RED) SINGLE REFLECTOR UNITS (TYPE 1 DELINEATOR) ON LEFT SIDE OF EXIT RAMPS AT 100 FOOT SPACING FROM "WRONG WAY" SIGN TO RAMP TERMINUS. USE TYPE 1A RED DELINEATORS ON RIGHT OR LEFT SIDE OF EXIT RAMPS WHERE TYPE 1 WHITE OR YELLOW DELINEATORS ARE USED FACE OF RED DELINEATORS ORIENTED OPPOSITE TO NORMAL TRAFFIC FLOW.



LOCATION OF OBJECT MARKERS AT CULVERT ENDS



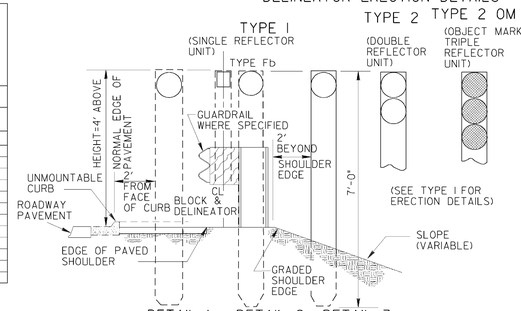
ELEVATION "A"
ONE OBJECT MARKER (YELLOW) (TYPE 2) SHALL BE USED WHERE HEADWALLS, FLARED END SECTIONS, OR CULVERT ENDS ARE LOCATED WITHIN THE FRONT SLOPE AS SHOWN IN ELEVATION "A" DETAIL.

ELEVATION "B"
A COMBINATION OF ONE OBJECT MARKER (TYPE 3) AND TWO OBJECT MARKERS (YELLOW) (TYPE 2), ONE ON EACH SIDE OF THE POST, SHALL BE USED WHERE HEADWALLS OF CULVERTS ARE LOCATED WITHIN THE EXISTING SHOULDER AREA AS SHOWN IN ELEVATION "B" DETAIL.

▶ = THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION

NOTE:
ON MAJOR DRAINAGE STRUCTURES ON FEDERAL RESURFACING PROJECTS, WHEN ELEVATION "B" EXISTS, THE FIELD REVIEW TEAM WILL RECOMMEND WHICH TO USE: GUARDRAIL, ADDITIONAL DELINEATION, OR EXTENSION OF DRAINAGE STRUCTURE.

DELINEATOR ERECTION DETAILS

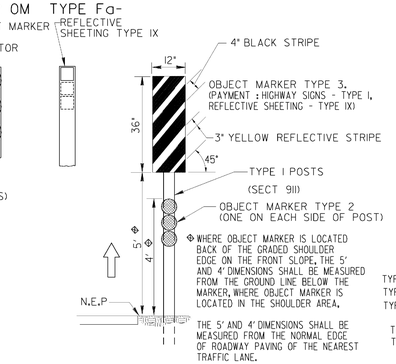


NOTE: ERECTION DETAILS ABOVE ARE TYPICAL FOR ALL TYPES EXCEPT 1A, 2A, 3A, & Fb, WHICH ARE MOUNTED ON THE POST OR STRUCTURE ALREADY IN PLACE.

DETAIL 1: ERECTION FOR ROADWAYS HAVING UNMOUNTABLE CURBS.

DETAIL 2: ERECTION FOR ROADWAY WITH GUARDRAIL, DELINEATOR POST SHALL BE IN THE SAME PLANE AS FACE OF GUARDRAIL POSTS, EXCEPT FOR TYPE Fb, AS SHOWN, AND POSSIBLY AT BRIDGE ENDS AS INDICATED ABOVE.

DETAIL 3: ERECTION FOR ROADWAYS HAVING SHOULDERS (WITHOUT CURBS). WITH MOUNTABLE CURBS, ERECTION SHALL BE SAME AS DETAIL 3.



DETAIL OF OBJECT MARKER

TYPES OF DELINEATORS

TYPE 1 - ALUMINUM OR GALVANIZED STEEL FLANGED "U" CHANNEL POST WITH SINGLE REFLECTOR UNIT. REFLECTOR UNIT TO CONSIST OF: (A) ONE 3" DIAMETER SEALED PRISMATIC REFLEX REFLECTOR WITH PLATE AND FRAME, OR, (B) ONE 4" X 5" RECTANGULAR TYPE 1, LEVEL A REFLECTIVE SHEETING REFLECTOR WITH PLATE AND FRAME, OR (C) ONE 3¼" DIAMETER CENTER MOUNT SEALED PRISMATIC REFLEX REFLECTOR HOUSED IN ALUMINUM BACKING WITH SINGLE GROMMETTED HOLE IN CENTER OF REFLECTOR.

TYPE 2 - ALUMINUM OR GALVANIZED STEEL FLANGED "U" CHANNEL POST WITH DOUBLE REFLECTOR UNIT. REFLECTOR UNIT TO CONSIST OF: (A) TWO 3" DIAMETER SEALED PRISMATIC REFLEX REFLECTORS WITH PLATE AND FRAME, OR, (B) TWO 4" X 5" RECTANGULAR TYPE 1, LEVEL A REFLECTIVE SHEETING REFLECTORS WITH PLATE AND FRAME, OR (C) TWO 3¼" DIAMETER CENTER MOUNT SEALED PRISMATIC REFLEX REFLECTOR HOUSED IN ALUMINUM BACKING WITH SINGLE GROMMETTED HOLE IN CENTER OF EACH REFLECTOR.

TYPE 3 - ALUMINUM OR GALVANIZED STEEL FLANGED "U" CHANNEL POST WITH TRIPLE REFLECTOR UNIT. REFLECTOR UNIT TO CONSIST OF: (A) THREE 3" DIAMETER SEALED PRISMATIC REFLEX REFLECTORS WITH PLATE AND FRAME, OR, (B) THREE 4" X 5" RECTANGULAR TYPE 1, LEVEL A REFLECTIVE SHEETING REFLECTORS WITH PLATE AND FRAME, OR (C) THREE 3¼" DIAMETER CENTER MOUNT SEALED PRISMATIC REFLEX REFLECTORS HOUSED IN ALUMINUM BACKING WITH SINGLE GROMMETTED HOLE IN CENTER OF EACH REFLECTOR.

TYPE 1A-SINGLE, TYPE 2A-DOUBLE, TYPE 2 OM-TRIPLE: REFLECTOR UNIT ONLY MOUNTED ON POST OR STRUCTURE ALREADY IN PLACE. REFLECTOR UNIT SAME AS FOR TYPE 1, 2, AND 2 OM, RESPECTIVELY.

TYPE Fa, TYPE Fb: FLEXIBLE DELINEATOR POSTS SHALL BE USED AT LOCATIONS WHERE HIGH FREQUENCY OF HITS ARE CONTEMPLATED, SUCH AS GORE AREAS, OUTSIDE OF SHARP CURVES, ETC., AND MAY ALSO BE USED AS ALTERNATIVES TO EITHER TYPE 1, TYPE 2, OR TYPE 3 DELINEATORS WHEN SPECIFIED ON THE PLANS. DIFFERENT DESIGN FLEXIBLE DELINEATORS PERMITTED, IF APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS AND RESEARCH.

GENERAL NOTES:

A- SPECIFICATIONS: GA. STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.

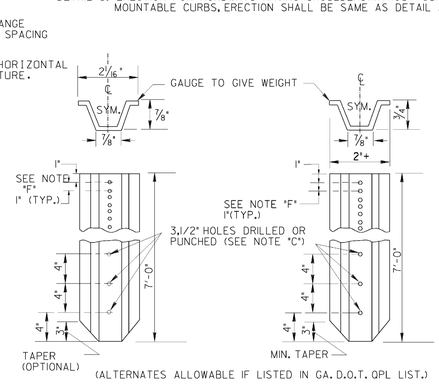
B- REFLECTORS FOR TYPES 1 AND 1A SHALL BE CRYSTAL (WHITE), YELLOW OR RED, AS SPECIFIED ON THE PLANS. REFLECTORS FOR TYPES 2 AND 2A SHALL BE CRYSTAL (WHITE) OR YELLOW AS SPECIFIED ON THE PLANS. REFLECTORS FOR TYPE 3 AND 3A SHALL BE YELLOW ONLY AS SPECIFIED ON THE PLANS.

C- WHEN POSTS ARE SET IN CONCRETE, METAL RODS SHALL BE INSERTED IN 3/4"/2" DIA. HOLES LOCATED AT BOTTOM OF POST. MIN SIZE OF RODS SHALL BE ¼" DIA. X 3" LONG.

D- MONODIRECTIONAL DELINEATORS SHALL BE USED AND ERECTED AT THE RECOMMENDED SPACING, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

E- FOR ADDITIONAL DATA ON DELINEATORS, REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ALL SUPPLEMENTS THERETO.

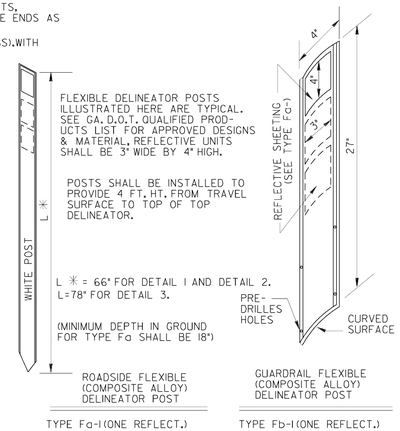
F- DRILL OR PUNCH 17 3/16" DIA. HOLES ON 1" CENTERS FOR A DISTANCE OF 17" MINIMUM FROM TOP POST.



(ALTERNATES ALLOWABLE IF LISTED IN GA. D.O.T. QPL LIST.)

STEEL FLANGED "U" CHANNEL POST (1.12 LBS./FT.) (GALVANIZED)

ALUMINUM FLANGED "U" CHANNEL POST (0.78 LBS./FT.)



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DELINEATORS & MARKERS AND ALTERNATE POSTS

NO SCALE — REV. & REDR. MAR., 2001

BY	REVISION	DATE
C.O.	REV. OBJECT MARKER TYPE, DELETED DETAIL AND REV. REFLECTIVE SHEETING TYPE.	4-10-06

DES. ____ REV. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9030C

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

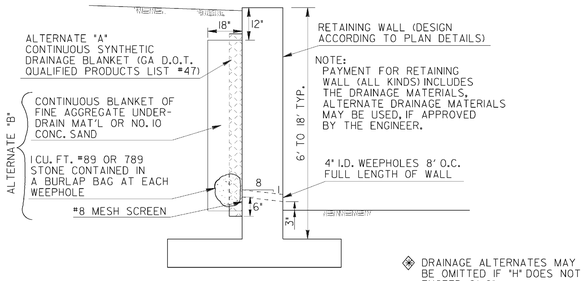
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-040

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DETAILS OF RETAINING WALL TYPICAL SECTIONS



STANDARD DRAINAGE FOR RETAINING WALLS

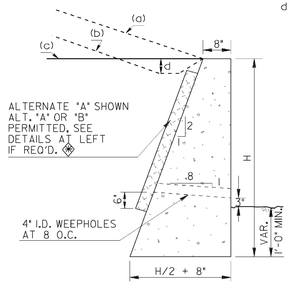
(FOR HEIGHTS FROM 6 FT. TO 18 FT.- SPECIAL DESIGN DRAINAGE REQUIRED FOR RETAINING WALLS OVER 18 FT. IN HEIGHT.)

(a) - SLOPED BACKFILL, NO DITCH

(b) - SLOPED BACKFILL WITH DITCH

(c) - FLAT BACKFILL

d = DITCH DEPTH, 6'-12" TYPICAL SEE PLANS FOR DESIGN



	MAXIMUM "H" *	
BACKFILL	PLAIN WALL	W.BARRIER FACE
FLAT	10'-0" **	10'-0"
SLOPE TO 4:1	6'-3"	7'-0"
SLOPE TO 2:1	4'-6"	4'-9"

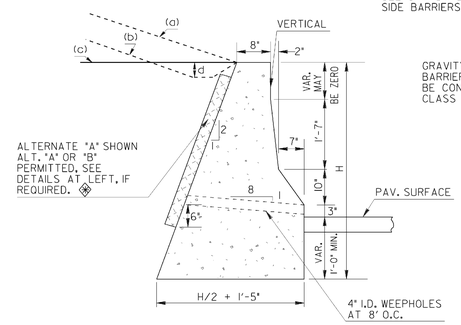
*GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.

**MAXIMUM "H" OF 7'-3" HERE IF TRAFFIC IS ON BACKFILL.

TYPICAL SECTION FOR GRAVITY TYPE WALL

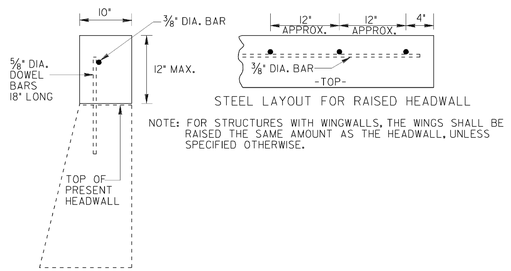
MATERIALS: CLASS "B" CONC. OR MORTAR RUBBLE MASONARY.

NOTE: SEE STANDARD 4948 WHERE CONCRETE SIDE BARRIERS ARE DESIRED.



TYPICAL SECTION FOR GRAVITY WALL WITH BARRIER FACE

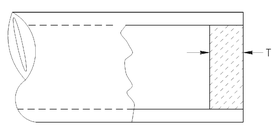
DETAIL FOR RAISING HEADWALL



STEEL LAYOUT FOR RAISED HEADWALL

NOTE: FOR STRUCTURES WITH WINGWALLS, THE WINGS SHALL BE RAISED THE SAME AMOUNT AS THE HEADWALL, UNLESS SPECIFIED OTHERWISE.

TYPICAL PIPE PLUG



SECTION

NOTE: PLAN PAY QUANTITIES ARE TO REFLECT PIPE PLUGS AS CU. YDS. OF CL. A OR CL. B CONCRETE. ON CONSTRUCTION PLUGS MAY BE BUILT WITH BRICK MASONRY, MORTAR RUBBLE MASONRY, CL. A CONC., OR CL. B CONC. WITH NO ADJUSTMENT IN PAYMENT MADE FOR ALTERNATES.

D	T (MIN)	PIPE PLUG (CU. YDS.)
12"	8"	0.0194
15"	8"	0.0303
18"	8"	0.0436
24"	8"	0.0776
30"	8"	0.1212
36"	8"	0.1745
42"	8"	0.2376
48"	8"	0.3103
54"	12"	0.5890
60"	12"	0.7272
66"	12"	0.8799
72"	12"	1.0472

DATE	REVISION
6-30-98	REDRAWN
4-30-84	ADD PIPE PLUG DETAILS
2-15-83	RET. WALL "H" TABLE ADDED

BY: G.J.P. R.M.U. R.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
RETAINING WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG.

NO SCALE: REV. & REDR. DECEMBER, 1982

REV. & R.M.U. (SUBMITTED)
REDR.
STATE ROAD & AIRPORT DESIGN ENGR.
TRA. G.M.E. (APPROVED)
CHK. R.K.C.
STATE HIGHWAY ENGINEER

NUMBER 9031L
SHEET 1 OF 2

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

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DEPARTMENT OF TRANSPORTATION
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GEORGIA STANDARDS

DRAWING No. 41-041

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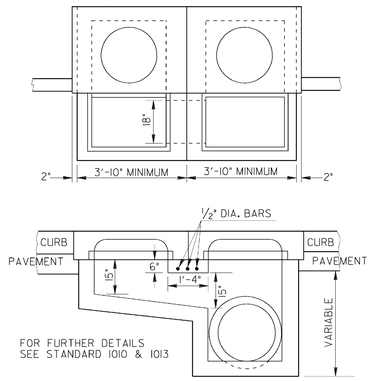
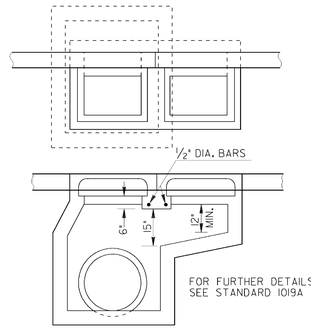
RELEASED FOR CONSTRUCTION 12/02/10

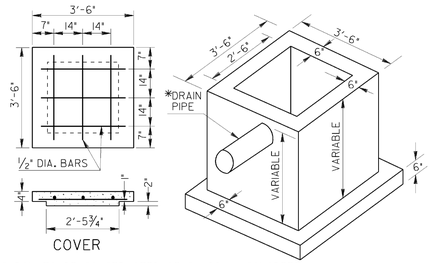
DETAIL OF CATCH BASIN MODIFIED FOR DOUBLE GRATES



DETAIL OF DROP INLET MODIFIED FOR DOUBLE GRATES



DETAIL OF CONCRETE SPRING BOX



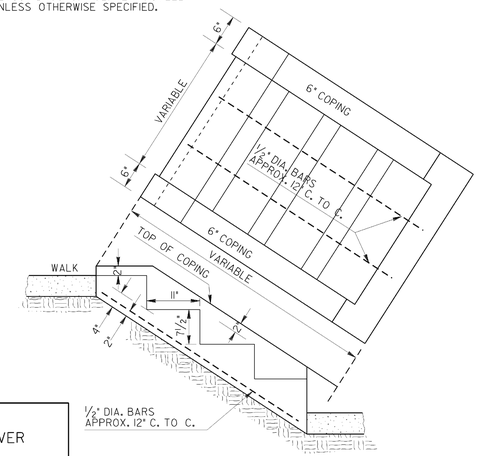
NOTE: SPRING BOX TO BE CONSTRUCTED OF CLASS "A" CONCRETE.

*DRAIN PIPE SHALL BE 6" PERFORATED UNDERDRAIN PIPE, EXCEPT WHERE OTHERWISE SPECIFIED. (2" GALV. PIPE USED ONLY IN SPECIAL CASES.) PAYMENT FOR SPRING BOX INCLUDES 1'-6" MIN. LENGTH OF DRAIN PIPE. ANY ADDITIONAL PIPE REQUIRED SHALL BE PAID FOR SEPARATELY.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

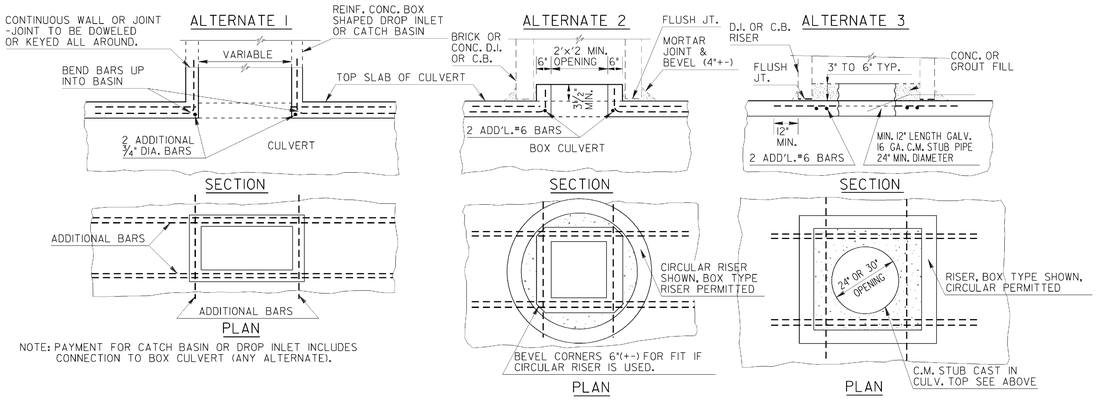
DETAIL OF CONCRETE STEPS

NOTE:
BASIS OF PAYMENT SHALL BE CLASS "B" CONC. INCL. REINF. STEEL UNLESS OTHERWISE SPECIFIED.



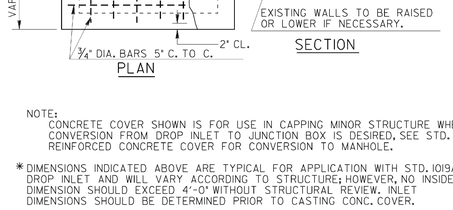
NOTE: RISE AND TREAD ARE TO BE ADJUSTED TO FIT SLOPE. RISE NOT TO EXCEED 8".

DETAILS OF CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT



NOTE: PAYMENT FOR CATCH BASIN OR DROP INLET INCLUDES CONNECTION TO BOX CULVERT (ANY ALTERNATE).

DETAILS FOR CAPPING EXISTING DROP INLET WITH CONCRETE COVER



NOTE:
CONCRETE COVER SHOWN IS FOR USE IN CAPPING MINOR STRUCTURE WHERE CONVERSION FROM DROP INLET TO JUNCTION BOX IS DESIRED. SEE STD. 1011A REINFORCED CONCRETE COVER FOR CONVERSION TO MANHOLE.

*DIMENSIONS INDICATED ABOVE ARE TYPICAL FOR APPLICATION WITH STD. 1019A DROP INLET AND WILL VARY ACCORDING TO STRUCTURE; HOWEVER, NO INSIDE DIMENSION SHOULD EXCEED 4'-0" WITHOUT STRUCTURAL REVIEW. INLET DIMENSIONS SHOULD BE DETERMINED PRIOR TO CASTING CONC. COVER.

NOTE: IF STRUCTURE IS TO BE UNDER TRAFFIC AND DOES NOT HAVE ONE FT. MIN. CLEARANCE TO SUBBASE, THE SLAB THICKNESS SHALL BE INCREASED BY 4" AND THE REBARS SIZE INCREASES FROM ¾" DIA. TO 1" DIA.

DATE	REVISION	BY
6-30-98	REDRAWN	G.J.P.
4-30-84	RET. WALL "H" TABLE ADDED	R.M.U.
2-15-83	ADD PIPE PLUG DETAILS	R.M.U.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
DETAILS OF: CATCH BASIN MODIFIED FOR DOUBLE GRATE, DROP INLET MODIFIED FOR DOUBLE GRATE, CONCRETE SPRING BOX, CONCRETE STEPS, CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT CAPPING EXISTING DROP INLET

NO SCALE: REV. & REDR. DECEMBER, 1982

REV. & R.M.U.	(SUBMITTED)	
REDR.	STATE ROAD & AIRPORT DESIGN ENGR.	
TRA. G.M.E.	(APPROVED)	
CHK. R.K.C.	CHIEF ENGINEER	

NUMBER 9031L
SHEET 2 OF 2

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(770) 263-9118

REVISION DATES

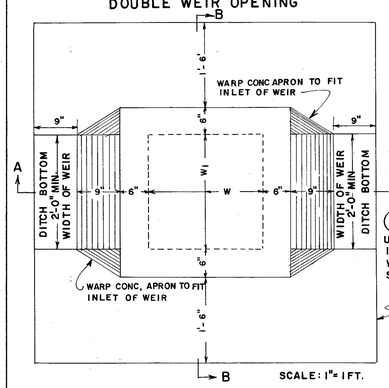
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-042

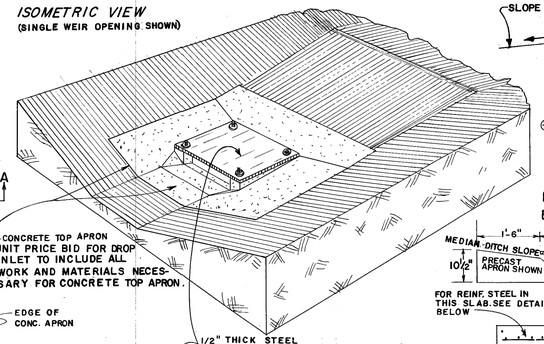
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

DETAILS OF DROP INLET WITH DOUBLE WEIR OPENING



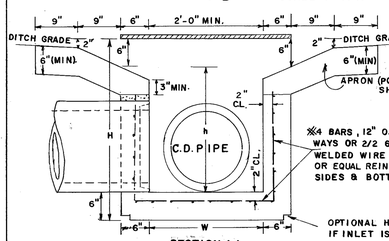
ISOMETRIC VIEW
(SINGLE WEIR OPENING SHOWN)



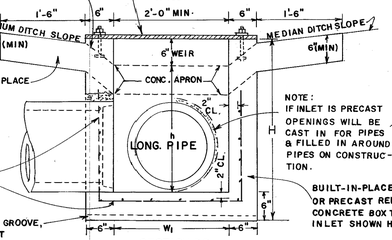
CONCRETE TOP APRON UNIT PRICE BID FOR DROP INLET TO INCLUDE ALL WORK AND MATERIALS NECESSARY FOR CONCRETE TOP APRON.

EDGE OF CONC. APRON

1/2" THICK STEEL PLATE BOLTED AT EACH CORNER WITH 1/2"x 6" Ⓚ BOLT, NUT, AND WASHER. BOLT, NUT AND WASHER GALVANIZED ACCORDING TO A.S.T.M. A-153.



SCALE: 1"= 1 FT.



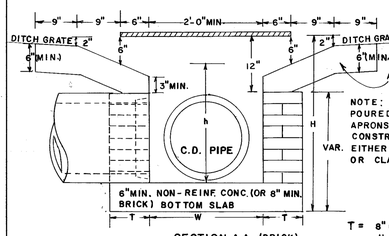
APRON (POURED IN PLACE SHOWN)

Ⓚ #4 BARS, 12" O.C. BOTH WAYS OR 2/2 6x6 WELDED WIRE FABRIC OR EQUAL REINF. IN ALL SIDES & BOTTOM

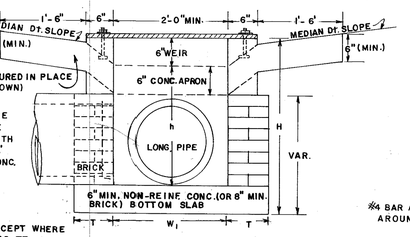
NOTE: IF INLET IS PRECAST OPENINGS WILL BE CAST IN FOR PIPES & FILLED IN AROUND PIPES ON CONSTRUCTION.

BUILT-IN-PLACE OR PRECAST REINF. CONCRETE BOX TYPE INLET SHOWN HERE.

OPTIONAL HANDLING GROOVE, IF INLET IS PRECAST

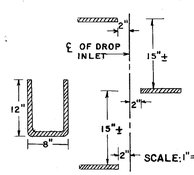


T = 8" (MIN.) EXCEPT WHERE H IS OVER 10 FT. SEE DETAIL AT RIGHT.

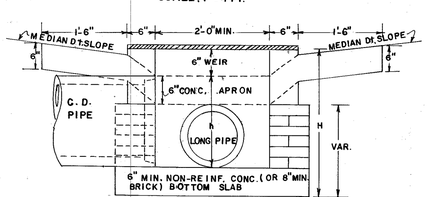


SCALE: 1"= 1 FT.

DETAIL AND ARRANGEMENT OF LADDER BARS



LADDER BARS ARE REQUIRED IN ALL INLETS, WHERE h=OVER 4'-0". NUMBER AND LOCATION OF LADDER BARS TO BE AS DIRECTED BY THE ENGINEER. AN ALTERNATE STEP MAY BE SUBSTITUTED, IF APPROVED BY THE LABORATORY.

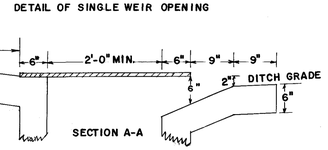


(C.D. PIPE IS 6" MIN. LARGER THAN LONG. PIPE)

SLOPE 20:1 (REFERENCED TO DITCH GRADE) OR FLATTER

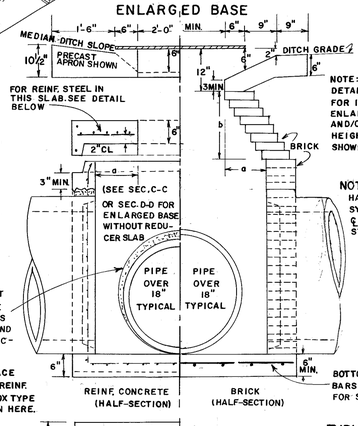
1'-0"

DETAIL OF SINGLE WEIR OPENING



Ⓚ ALTERNATE:
PARABOLT CONC. ANCHORS PB-12-514, PHILIPS RED HEAD WW 1254, USE. TAPER BOLT 3432 OR AN EQUAL 1/2" ϕ ANCHOR BOLT MAY BE USED TO SECURE THE STEEL PLATE.

DROP INLET WITH ENLARGED BASE

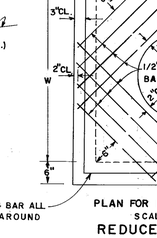


NOTE: DETAILS NOT SHOWN FOR INLETS WITH ENLARGED BASES AND/OR ADDITIONAL HEIGHT WILL BE AS SHOWN ELSEWHERE.

NOTE: HALF-SECTIONS ARE SYMMETRICAL ABOUT ℄ OF THE TYPE CONSTRUCTION UTILIZED.

NO SCALE

BOTTOM SLAB REINF. NO.4 BARS Ⓓ 12" O.C. BOTH WAYS FOR STRUCTURES SHOWN HERE.



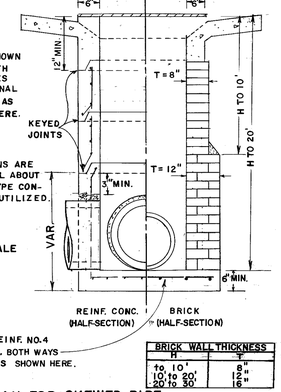
PLAN FOR REINF. STEEL
SCALE: 3/4"= 1'-0"

SYMMETRICAL ABOUT ℄

12" DIAGONAL BARS AT 4"O.C.

REDUCER SLAB
(HALF-SECTION)

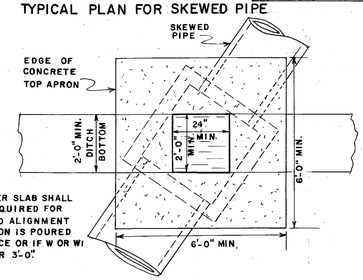
DROP INLET WITH ADDITIONAL HEIGHT
(DETAILS SHOWN ARE TYPICAL BOX ENCLOSURE FOR PIPE MAY BE BRICK MASONRY WITH PRECAST RISERS. ALSO SEE STD. 1040 FOR ADAPTERS USED WITH CIRCULAR ALTERNATES).



NO SCALE

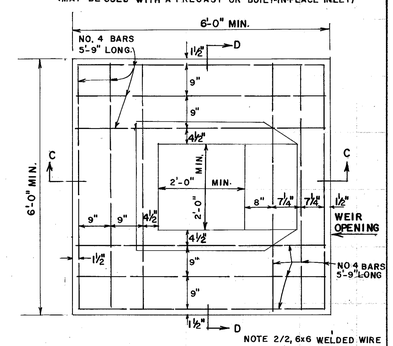
BRICK WALL THICKNESS	
H	T
to 10'	8"
10 to 20'	12"
20 to 30'	16"

TYPICAL PLAN FOR SKEWED PIPE

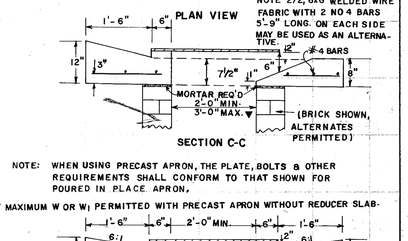


NOTE: REDUCER SLAB SHALL BE REQUIRED FOR SKEWED ALIGNMENT IF APRON IS POURED IN PLACE OR IF W OR W1 IS OVER 3'-0".

REINFORCING FOR OPTIONAL PRECAST APRON
(MAY BE USED WITH A PRECAST OR BUILT-IN-PLACE INLET)



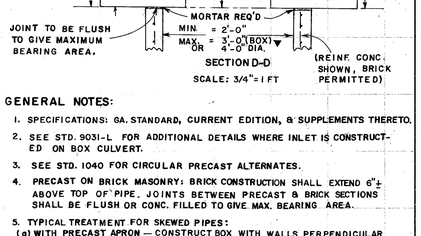
NOTE 2/2, 6x6 WELDED WIRE FABRIC WITH 2 NO 4 BARS 5'-9" LONG. ON EACH SIDE MAY BE USED AS AN ALTERNATIVE.



SECTION C-C

NOTE: WHEN USING PRECAST APRON, THE PLATE, BOLTS & OTHER REQUIREMENTS SHALL CONFORM TO THAT SHOWN FOR POURED IN PLACE APRON.

▼ MAXIMUM W OR W1 PERMITTED WITH PRECAST APRON WITHOUT REDUCER SLAB.



SECTION D-D
SCALE: 3/4"= 1 FT

GENERAL NOTES:

1. SPECIFICATIONS: GA. STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.
2. SEE STD. 9031-L FOR ADDITIONAL DETAILS WHERE INLET IS CONSTRUCTED ON BOX CULVERT.
3. SEE STD. 1040 FOR CIRCULAR PRECAST ALTERNATES.
4. PRECAST ON BRICK MASONRY: BRICK CONSTRUCTION SHALL EXTEND 6"± ABOVE TOP OF PIPE. JOINTS BETWEEN PRECAST & BRICK SECTIONS SHALL BE FLUSH OR CONC. FILLED TO GIVE MAX. BEARING AREA.
5. TYPICAL TREATMENT FOR SKEWED PIPES:
   (a) WITH PRECAST APRON — CONSTRUCT BOX WITH WALLS PERPENDICULAR TO PIPE AND SET PRECAST APRON PARALLEL TO DITCH AND SKEWED RELATIVE TO PIPE OR USE CIRCULAR SECTIONS (STD.1040)
   (b) WITH BUILT-IN-PLACE APRON — CONSTRUCT BOX AS DESCRIBED IN (a) AND USE REDUCER SLAB OR INCREASE W OR W1 DIMENSIONS AS NECESSARY OR USE CIRCULAR SECTIONS (STD. 1040)

TYPICAL DROP INLET DIMENSIONS * *

PIPE SIZE	BRICK MASONRY MIN. W OR W1	MIN. H	MIN. h	a (MAX.)	b (MIN.)	MODIFIED MIN H	MODIFIED MIN. h	REINF. CONCRETE * MIN. W OR W1	MIN. H	MIN. h	a (MAX)
15"	2'-0"	3'-1"	2'-1"	—	—	2'-7½"	1'-7½"	2'-0"	3'-2"	2'-2"	—
18"	2'-3"	3'-10"	2'-10"	1½"	2/16	2'-11"	1'-11"	2'-3"	3'-5"	2'-5"	—
24"	2'-10"	4'-11"	3'-11"	5"	8/8	3'-6"	2'-6"	3'-0"	4'-10"	3'-10"	6"
30"	3'-5"	6'-0"	5'-0"	8½"	1'-2 5/16	4'-1"	3'-1"	3'-6"	5'-5"	4'-5"	9"
36"	4'-0"	7'-1"	6'-1"	1'-0"	1'-8¾"	—	—	4'-0"	6'-0"	5'-0"	1'-0"
42"	4'-7"	8'-6"	7'-2"	1'-3½"	2'-2¾"	—	—	4'-6"	6'-7"	5'-7"	1'-3"
48"	5'-2"	9'-7"	8'-3	1'-7"	2'-8⅞"	—	—	5'-0"	7'-2"	6'-2"	1'-6"

* BUILT-IN-PLACE OR PRECAST BOX

* * DIMENSIONS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPE AND MAY BE VARIED IF CONDITIONS PERMIT, AND THE VARIED DIMENSIONS ARE SHOWN IN THE PLANS OR SPECIFIED BY THE ENGINEER. DIMENSIONS "a" ARE BASED UPON 2'-0" WEIR OPENING. MINIMUM H AND h ARE BASED UPON LARGEST PIPE INVOLVED. BOX ENCLOSURE FOR PIPE DOES NOT HAVE TO BE SQUARE. W AND W1 DIMENSIONS MAY DIFFER. (DIMENSIONS HAVE BEEN SPECIFIED FOR BOX SHAPED INLETS, SEE STD. 1040 FOR DIMENSIONS OF CIRCULAR ALTERNATES)

FORM EF3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD MEDIAN DROP INLET
(PRECAST OR BUILT-IN-PLACE) & CONCRETE APRON

SCALE AS SHOWN — REV. & REDR. AUGUST 26, 1981

GEN. REV.	DATE	REVISION
R.M.U.	4-17-86	

DES. 2-67 (SUBMITTED) Lloyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.
REV. R.M.U.
TRA. G.M.E.
CHK. R.K.C.
(APPROVED) Thomas D. Moreland — STATE HIGHWAY ENGINEER

NUMBER 9031-S

DRAWING No. 41-043

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

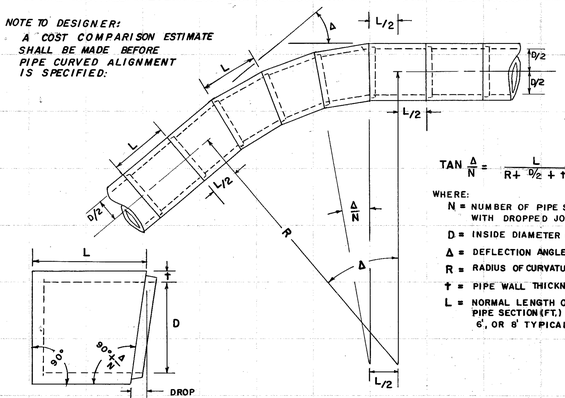
3/1/2007 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	538	668

RELEASED FOR CONSTRUCTION 12/02/10

PIPE CURVED ALIGNMENT USING SECTIONS WITH DROPPED JOINTS

NOTE TO DESIGNER:
A COST COMPARISON ESTIMATE SHALL BE MADE BEFORE PIPE CURVED ALIGNMENT IS SPECIFIED.



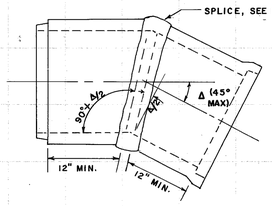
SECTION WITH DROPPED JOINT

$$\tan \frac{\Delta}{N} = \frac{L}{R + D/2 + t}$$

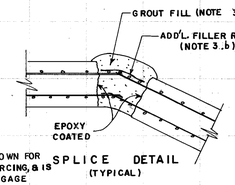
WHERE:
- N = NUMBER OF PIPE SECTIONS WITH DROPPED JOINTS
- D = INSIDE DIAMETER OF PIPE
- Δ = DEFLECTION ANGLE, DEGREES
- R = RADIUS OF CURVATURE (FT.)
- t = PIPE WALL THICKNESS (FT.)
- L = NORMAL LENGTH OF PIPE SECTION (FT.) 4', 6', OR 8' TYPICAL.

NOTES FOR PIPE CURVED ALIGNMENT:
1. PLANS ARE TO SPECIFY ONLY THE PIPE DIAMETER "D," THE ANGLE "Δ," AND THE TANGENT ALIGNMENT.
2. PIPE WALL THICKNESS "t", PIPE SECTION LENGTHS "L", AND DROP IN PIPE JOINT "Δ/N" VARIES ACCORDING TO PIPE PRODUCER AND IS BASED ON FEASIBILITY.
3. THE RADIUS "R" AND THE NUMBER OF DROPPED JOINT PIPE SECTIONS "N" IS DETERMINED BY (1)& (2) ABOVE. MINOR MODIFICATIONS IN THE RADIUS "R" ARE NORMALLY MADE SO THAT "N" WILL BE A WHOLE NUMBER,
4. PIPE SECTIONS SHALL BE ORIENTED SUCH THAT THE PLANE OF THE DROPPED JOINT IS AT RIGHT ANGLES TO THE THEORETICAL CIRCULAR CURVE. THE TOP OF SECTIONS ARE TO BE MARKED SO THAT THE DEFLECTION ANGLE IS PROPERLY ORIENTED.
5. DETAILS ARE SHOWN FOR CONCRETE PIPE. CURVED ALIGNMENT FOR C.M. PIPE SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
6. PAYMENT PER LIN. FT. PIPE INCLUDES PIPE SECTIONS WITH DROPPED JOINTS.

PIPE ELBOW SECTION (PRE-FABRICATED)



PLAN VIEW

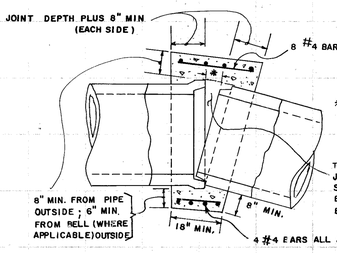


SPLICE DETAIL (TYPICAL)

NOTE: SPLICE DETAIL IS SHOWN FOR DOUBLE CAGE REINFORCING, & IS SIMILAR FOR SINGLE GAGE REINFORCING, BUT WITH SINGLE SPLICE ALL AROUND BEING APPLICABLE.

NOTES FOR PIPE ELBOW:
1. PAYMENT FOR LIN. FT. OF PIPE INCLUDES ELBOWS.
2. ELBOW ANGLE Δ SHALL VARY ACCORDING TO NEED, BUT SHALL NOT BE GREATER THAN 45°. THE CONTRACTOR SHALL INFORM PRODUCER AS TO ANGLE REQUIRED.
3. (a) CONCRETE PIPE SHALL BE CUT BEFORE BEING CURED AND STEEL EXPOSED FROM EACH SIDE OF CUT (b) EXPOSED STEEL SHALL BE REJOINED. FILLER RODS AT LEAST EQUAL TO RODS IN PIPE SHALL BE ADDED AS NEEDED FOR HANDLING STRENGTH & TO HOLD GROUT. (c) ALL VOID IN SPLICE SHALL BE PACKED WITH GROUT MORTAR RICH ENOUGH TO GIVE STRENGTH AT LEAST EQUAL TO REMOVED CONCRETE WITH INSIDE SMOOTHED OUT.
4. C.M. PIPE ELBOW NOT SHOWN, BUT MAY BE SPECIFIED. SOLID WELD SHALL BE REQUIRED FOR C.M. ELBOW JOINT WITH GALVANIZING AND/OR COATINGS REPAIRED AS REQ'D.

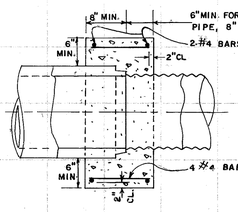
CONCRETE COLLAR FOR DEFLECTING PIPE



PLAN SECTION

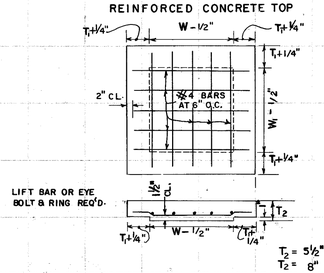
NOTES FOR CONCRETE COLLARS:
1. PERIMETERS OF CONCRETE COLLARS DO NOT HAVE TO BE SMOOTH LINES. COLLARS MAY BE FORMED AGAINST COMPACTED OR UNDISTURBED SOIL. DIMENSIONS ARE MINIMUM. COLLAR MAY BE SQUARE, ROUND OR SHAPE MAY VARY SO LONG AS MINIMUM DIMENSIONS ARE OBTAINED,
2. ALL CONCRETE COLLARS ARE TO BE CONSTRUCTED WITH CLASS A CONCRETE.
3. PAYMENT FOR LIN. FT. OF PIPE INCLUDES COLLARS.

CONCRETE COLLAR FOR JOINTING PIPE



PLAN OR SIDE SECTION

REINFORCED CONCRETE TOP

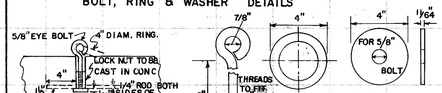


$T_2 = 5\frac{1}{2}$" FOR W OR W_1 TO 3'-0"
$T_2 = 8$" FOR W OR W_1 OVER 3'-0"

PIPE SIZE	MIN W OR W	MIN. h	MIN. H
15"	2'-0"	1'-9"	2'-9"
18"	2'-3"	2'-1"	3'-1"
24"	2'-10"	2'-8"	3'-8"
30"	3'-5"	3'-3"	4'-3"
36"	4'-0"	3'-10"	4'-9"
42"	4'-7"	4'-5"	5'-5"
48"	5'-2"	5'-0"	6'-0"

SEE GEN. NOTE NO.3

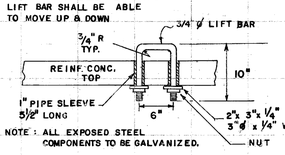
BOLT, RING & WASHER DETAILS



ALTERNATE CONNECTION FOR BOLT & RING

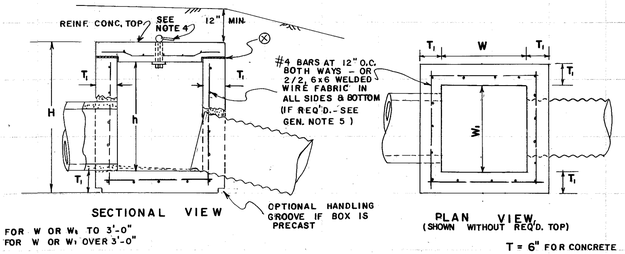
WASHER, BOLT & RING TO BE GALV. STEEL OR WROUGHT IRON RING TO BE PLACED IN EYE OF BOLT BEFORE LEAVING SHOP.

STEEL LIFTING BAR DETAIL



NOTE : ALL EXPOSED STEEL COMPONENTS TO BE GALVANIZED.

DETAILS OF CONCRETE JUNCTION BOX
(PRECAST OR BUILT IN PLACE)

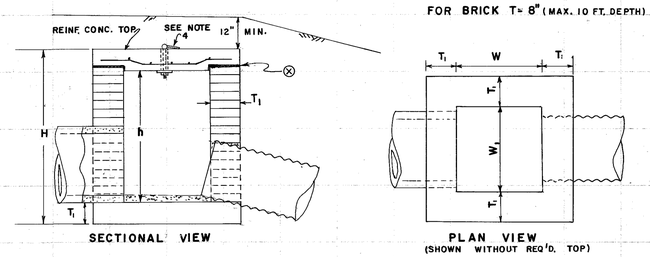


SECTIONAL VIEW

PLAN VIEW
(SHOWN WITHOUT REQ'D. TOP)

T = 6" FOR CONCRETE

DETAILS OF BRICK JUNCTION BOX
FOR BRICK T= 8" (MAX. 10 FT. DEPTH)



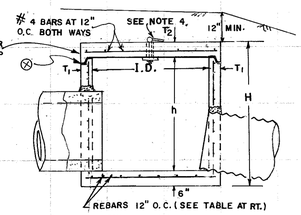
SECTIONAL VIEW

PLAN VIEW
(SHOWN WITHOUT REQ'D. TOP)

⊗ PREVENT BOND WITH EITHER 30 LB. ASPHALT SATURATED FELT OR PREFORMED FOAM JOINT FILLER.

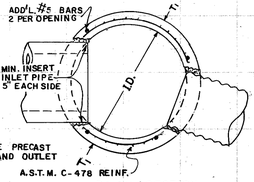
DETAILS OF CIRCULAR PRECAST JUNCTION BOX
(REINFORCING AND DESIGN SHALL COMPLY WITH A.S.T.M. C-478 EXCEPT AS OTHERWISE SHOWN. MATERIALS SHALL COMPLY WITH GA. STD. SPECIFICATIONS FOR PRECAST MANHOLES)

I.D.	T_1 (MIN.)	T_2 (MIN.)	MAX. PIPE CONC.	MAX. PIPE C.M.	REBARS IN BOTTOM
4'-0"	5"	6"	30"	36"	#5
5'-0"	5"	8"	42"	48"	#5
6'-0"	6"	8"	48"	54"	#6



SECTIONAL VIEW

PIPE SIZE	MIN. h	MIN. H
15"	1'-10"	2'-10"
18"	2'-2"	3'-2"
24"	2'-9"	3'-9"
30"	3'-4"	4'-4"
36"	4'-0"	5'-2"
42"	4'-7"	5'-9"
48"	5'-2"	6'-4"



PLAN SECTION

NOTE:
OPENINGS SHALL BE PRECAST FOR BOTH INLET AND OUTLET

GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. ILLUSTRATED PIPES, PIPE JOINTS, ALIGNMENT, SIZES, ETC. ARE SHOWN AS REPRESENTATIVE. ACTUAL REQUIREMENTS VARY PER LOCATION AS INDICATED IN THE PLANS.
3. JUNCTION BOXES DO NOT HAVE TO BE CONSTRUCTED SQUARE. W & W1 DIMENSIONS MAY VARY ACCORDING TO PIPE SIZE.
4. ALL JUNCTION BOX TOPS SHALL BE EQUIPPED WITH EITHER AN EYE BOLT & RING (SHOWN) OR A LIFTING BAR (ALTERNATE).
5. REINFORCING IS REQUIRED FOR ALL PRECAST JUNCTION BOXES. REINFORCING MAY BE OMITTED FOR BUILT IN PLACE CONCRETE BOXES NOT OVER 10 FT. DEEP AND NOT LARGER THAN 3' x 3'. CONSTRUCTION JOINTS PERMITTED IF DOWELED OR KEYED. ALL JUNCTION BOX TOPS SHALL BE REINFORCED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

PRECAST OR BUILT IN PLACE
JUNCTION BOXES
PIPE COLLARS, PIPE ELBOW & PIPE CURVED ALIGNMENT

NO SCALE — REV. & REDR. JULY 1985

DES. RMU (SUBMITTED) Floyd E. Hardy
DRW. RMU STATE ROAD & AIRPORT DESIGN ENGR.
TRA. GME (APPROVED) Hal Kwon
CHK. RKC STATE HIGHWAY ENGINEER

NUMBER 9031U

FORM EF6

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

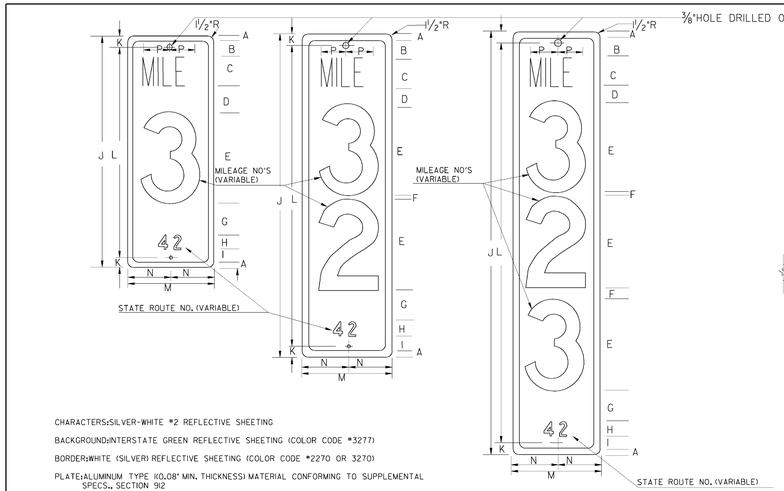
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-044

8/7/2006 3:10:25 PM \\GDOT-DSN\GOPLOT\GCF\go_11f1_output.gcf gawens M:\GARY\Revised 9033\9033.prf 00-R06

RELEASED FOR CONSTRUCTION 12/02/10



CHARACTERS: SILVER-WHITE #2 REFLECTIVE SHEETING

BACKGROUND: INTERSTATE GREEN REFLECTIVE SHEETING (COLOR CODE #3277)

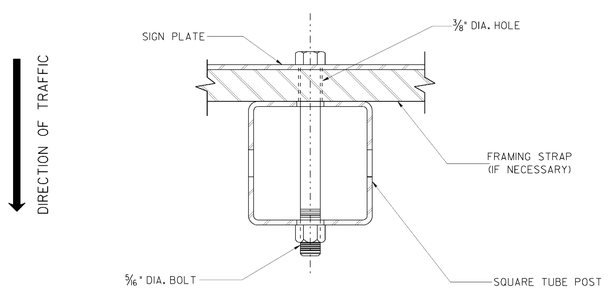
BORDER: WHITE (SILVER) REFLECTIVE SHEETING (COLOR CODE #2770 OR 3270)

PLATE: ALUMINUM TYPE IO, 08" MIN. THICKNESS) MATERIAL CONFORMING TO SUPPLEMENTAL SPECS., SECTION 912

TYPICAL MILEPOST SIGN DETAILS

NOTE: INSTALLATION OF MILEPOST SHALL BE WITHHELD UNTIL THE GRASS IS ACCEPTED BY THE STATE.

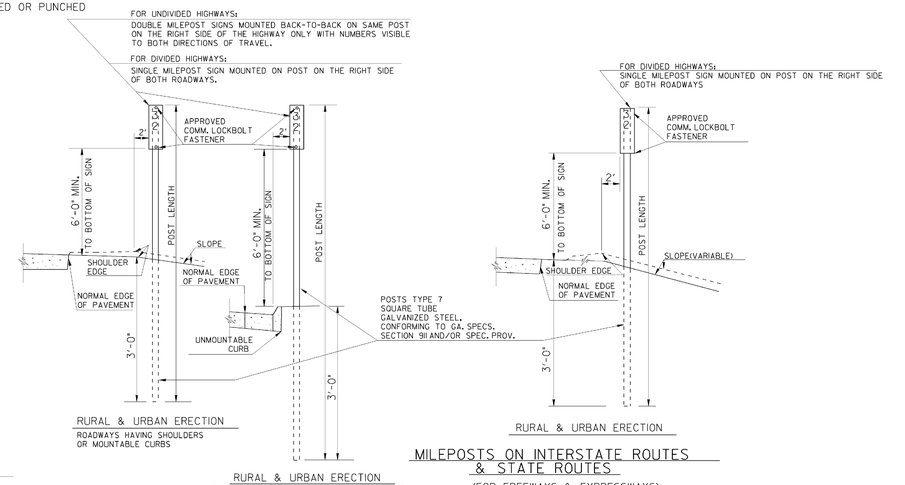
POST	STUB SIZE
TYPE 7	2¼" × 2¼"



TYPICAL DETAIL

NOTE: SAMPLE OF COMMERCIAL LOCKBOLT FASTENER TO BE USED MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION

⅜" HOLE DRILLED OR PUNCHED



TYPICAL MILEPOST ERECTION DETAILS

NOTE: MILEPOSTS SHALL BE LOCATED IN LINE WITH DELINEATOR POST OR, IF APPROPRIATE, IN THE SAME PLANE AS FACE OF GUARDRAIL POST WITH THE BOTTOM OF THE MARKER AT THE SAME HEIGHT AS THE DELINEATOR AS SHOWN IN THE DETAILS ABOVE.

MILE POST MARKERS

DIMENSIONS (INCHES)

	FREEWAYS AND EXPRESSWAYS			CONVENTIONAL HIGHWAYS		
	1-DIGIT	2-DIGITS	3-DIGITS	1-DIGIT	2-DIGITS	3-DIGITS
A	½	½	½	½	½	½
B	2½	2½	2½	1½	1½	1½
C	4	4	4	4	4	4
D	3	3	3	2	2	2
E	10	10	10	6	6	6
F		3	2½		3	3
G	1¼	¾	¾	1¼	1¼	1¼
H	10	10	10	10	10	10
I	1¼	¾	¾	1¼	1¼	1¼
J	24	36	48	18	27	36
K	1	1	1	1	1	1
L	22	34	46	16	25	34
M	12	12	12	10	10	10
N	6	6	6	5	5	5
P	4¾	4¾	4¾	3¾	3¾	3¾
POST LENGTH (LIN.FT.)	11	12	13	11	12	12

GENERAL NOTES:

1. MILEPOST ARE TO BE LOCATED AND ERECTED ON ACCURATE MILEAGE MEASUREMENTS MADE ON EITHER THE NORTH-BOUND OR EASTBOUND ROADWAY BEGINNING WITH ZERO MILEAGE AT THE SOUTH OR WEST STATE LINES FOR THE INTERSTATE HIGHWAY SYSTEM AND AT THE SOUTH OR WEST COUNTY LINES FOR THE STATE HIGHWAY SYSTEM AND AT JUNCTIONS WHERE ROUTES BEGIN AND RUNNING CONTINUOUS WITHIN THE STATE FOR THE INTERSTATE HIGHWAY SYSTEM AND RUNNING CONTINUOUS WITHIN THE COUNTY FOR THE STATE HIGHWAY SYSTEM. CORRESPONDING MILEPOSTS FOR SB OR WB ROADWAY OF DIVIDED HIGHWAYS ONLY, ARE TO BE LOCATED DIRECTLY OPPOSITE THOSE ON NB OR EB ROADWAYS.
2. WHERE ANY INTERFERENCE PREVENTS INSTALLING THE MILEPOST AT ITS ACCURATE LOCATION, IT MAY BE MOVED IN EITHER DIRECTION A MAXIMUM OF 50'. IF IT CANNOT BE PLACED WITHIN THAT DEGREE OF ACCURACY, IT SHALL BE OMITTED. MEASUREMENT TO THE NEXT MILEPOST LOCATION SHALL BE MADE FROM THE ACCURATELY ESTABLISHED MILE LOCATION AND NOT FROM THE ADJUSTED LOCATION.
3. MILEPOSTS SHALL BE INSTALLED ONLY AFTER IMPROVEMENTS ON EITHER SYSTEM HAVE PROGRESSED SUFFICIENTLY TO PERMIT THE POSTING OF ACCURATE MILEAGE. MILEPOSTS WILL ONLY BE ERECTED ON PAVED ROADS.
4. IT SHALL BE THE RESPONSIBILITY OF THE ENGINEER TO MARK THE LOCATION AND NUMERICAL DESIGNATION OF EACH MILEPOST. DISTANCES WILL BE OBTAINED BY THE USE OF A CERTIFIED ODOMETER IN A VEHICLE TRAVELING IN THE RIGHT HAND LANE IN THE DIRECTION IN WHICH THE MILEAGE INCREASES. NUMERICAL DESIGNATIONS SHALL BE DETERMINED AND COORDINATED FROM OFFICIAL GEORGIA D.O.T. MILEPOST RECORDS. CONTACT THE OFFICE OF TRAFFIC ENGINEERING AND SAFETY FOR CERTIFIED MILEPOST DATA.
5. WHERE TWO ROUTES ARE COMMON, THE MILEAGE WILL ONLY BE CARRIED AS THE LOWER NUMBERED ROUTE, BUT THE CORRECT MILEAGE ON THE OTHER ROUTE WILL BE MEASURED AND AFTER THE ROUTES SEPARATE, MILEPOST SHOWING THE CORRECT MILEAGE WILL BE ERECTED AS USUAL.
6. MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
   (A) HIGHWAY SIGNS-SECTION 636
   (B) SIGN FABRICATION-SECTION 910, EXCEPT THAT THE MESSAGE SHALL BE OF REFLECTIVE MATERIAL, PRESSURE SENSITIVE.
   (C) SIGN POST-SECTION 911 AND/OR SPEC. PROV.
   (D) SIGN BLANKS- SECTION 912
   (E) REFLECTORIZING MATERIALS-SECTION 913

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

MILEPOSTS

NO SCALE RE-DRAWN SEPT. 1999

C.I.D.	REVISION	BY	DATE
	REVISED POST TO A TYPE 7		3-30-06

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9033

8/7/2006 3:10:25 PM \\GDOT-DSN\GOPLOT\GCF\go_11f1_output.gcf gawens M:\GARY\Revised 9033\9033.prf

3/1/2007 GPLN

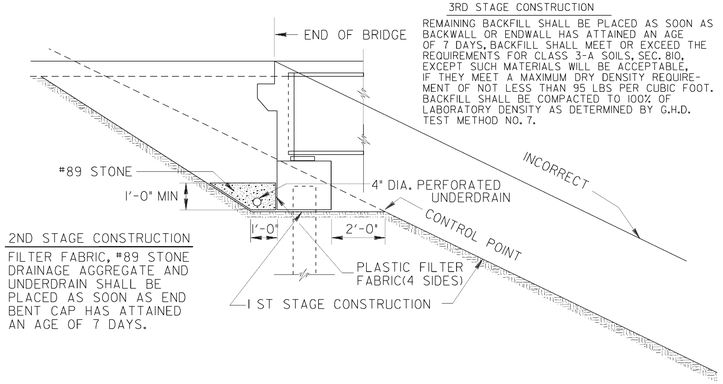
THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

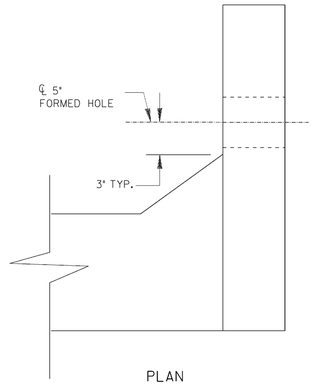
DRAWING No. 41-045

9/3/2004 8:27:35 AM \\GDOT-DSN1\GOPLOT\GCF\GO_TIFF_OUTPUT.GCF GOWENS M:\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\9037.PRF GO-RD6

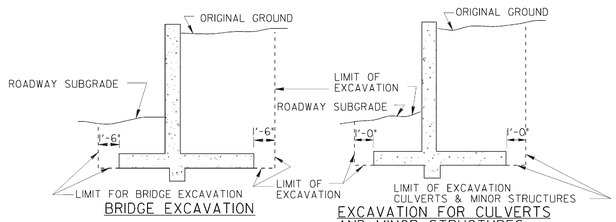


SKETCH SHOWING CONSTRUCTION OF FILLS AT ENDS OF BRIDGES

NO SCALE



PLAN

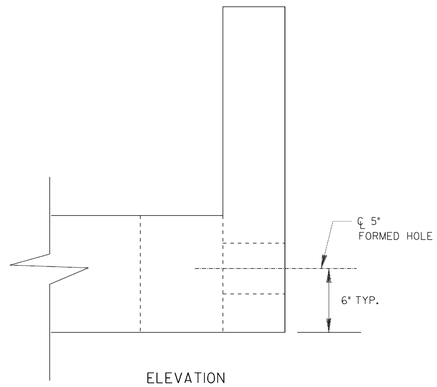


TYPICAL DETAILS OF EXCAVATION AT STRUCTURES

NOTE: WHERE FILL IS PLACED BEFORE CONSTRUCTION OF STRUCTURES THE COST OF EXCAVATION AND BACKFILL WILL BE INCLUDED IN THE COST OF OTHER ITEMS. THERE WILL BE NO PAYMENT FOR EXCAVATION UNDER THIS CONDITION.

NOTES:

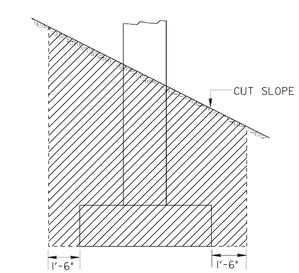
1. PERFORATED UNDERDRAIN SHALL EXTEND TO THE INSIDE FACE OF WING AT THE HIGH END OF THE CAP.
2. AT THE LOW END OF THE CAP, CONNECT PERFORATED UNDERDRAIN TO A COMPATIBLE SOLID PIPE FROM THE INSIDE FACE OF WING UNTIL IT EXITS THE SLOPE. SOLID PIPE SHALL HAVE A MINIMUM SLOPE OF 2%.
3. SOLID PIPE MAY BE PLACED AT EITHER END OF CAPS WITH LEVEL BOTTOM.
4. PERFORATED UNDERDRAIN SHALL BE INSTALLED PARALLEL TO BOTTOM OF CAP. LOW POINTS OR SAGS THAT MAY TRAP WATER WILL NOT BE ALLOWED.
5. FILTER FABRIC SHALL NOT BE ATTACHED TO THE END BENT CAP.
6. COST FOR PROVIDING AND INSTALLING FILTER FABRIC, UNDERDRAIN, AND STONE SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.



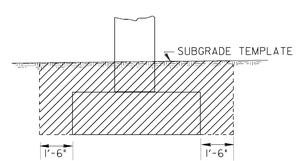
ELEVATION

WINGWALL DETAIL

SHADED AREA IS BRIDGE EXCAVATION.



INTERMEDIATE BENT



INTERMEDIATE BENT

TYPICAL EXCAVATION DETAILS AT BRIDGE BENTS IN CUT SECTIONS

NO SCALE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TYPICAL FILL DETAIL AT END OF BRIDGE

NO SCALE — REDRAWN SEPT., 1999

DES. DRW. TRA. CHK. BY

(SUBMITTED) James A. Brand
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Paul L. Liles
CHIEF ENGINEER

NUMBER 9037

DATE REVISION

RELEASED FOR CONSTRUCTION 12/02/10

9/3/2004 8:27:35 AM \\GDOT-DSN1\GOPLOT\GCF\GO_TIFF_OUTPUT.GCF GOWENS M:\GARY\ENGLISH STANDARDS UPDATED AND UPDATED INDEX\9037.PRF

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A UNIT OF MICHAEL BAKER CORPORATION
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NORCROSS, GEORGIA 30092
(770) 263-9118

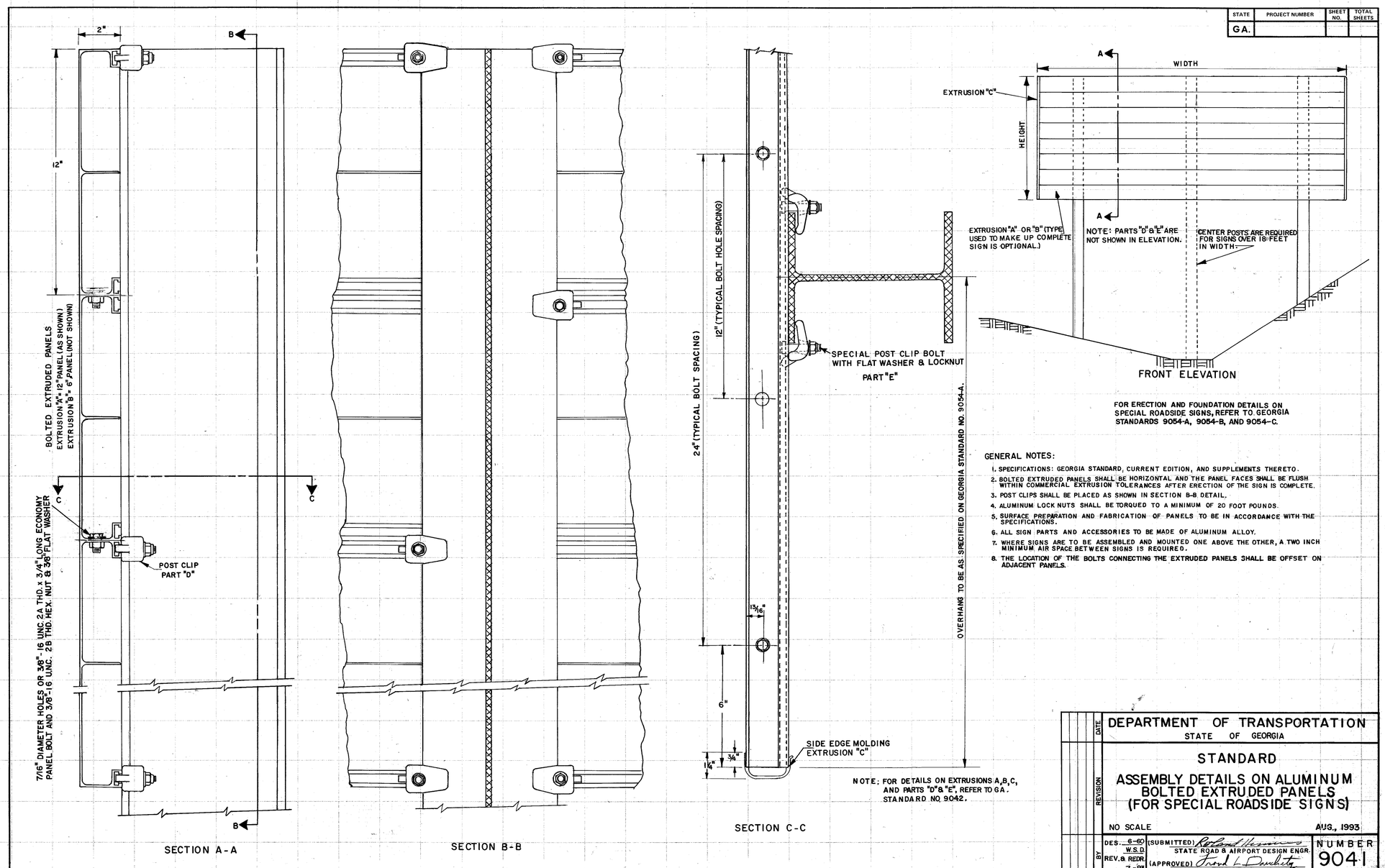
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-046

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



FOR ERECTION AND FOUNDATION DETAILS ON SPECIAL ROADSIDE SIGNS, REFER TO GEORGIA STANDARDS 9054-A, 9054-B, AND 9054-C.

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. BOLTED EXTRUDED PANELS SHALL BE HORIZONTAL AND THE PANEL FACES SHALL BE FLUSH WITHIN COMMERCIAL EXTRUSION TOLERANCES AFTER ERECTION OF THE SIGN IS COMPLETE.
3. POST CLIPS SHALL BE PLACED AS SHOWN IN SECTION B-B DETAIL.
4. ALUMINUM LOCK NUTS SHALL BE TORQUED TO A MINIMUM OF 20 FOOT POUNDS.
5. SURFACE PREPARATION AND FABRICATION OF PANELS TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
6. ALL SIGN PARTS AND ACCESSORIES TO BE MADE OF ALUMINUM ALLOY.
7. WHERE SIGNS ARE TO BE ASSEMBLED AND MOUNTED ONE ABOVE THE OTHER, A TWO INCH MINIMUM AIR SPACE BETWEEN SIGNS IS REQUIRED.
8. THE LOCATION OF THE BOLTS CONNECTING THE EXTRUDED PANELS SHALL BE OFFSET ON ADJACENT PANELS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

ASSEMBLY DETAILS ON ALUMINUM BOLTED EXTRUDED PANELS (FOR SPECIAL ROADSIDE SIGNS)

NO SCALE AUG., 1993

DES. 6-60 W.S.D. REV. & REDR. 7-93

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) STATE HIGHWAY ENGINEER

NUMBER 9041

FORM EF00003

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

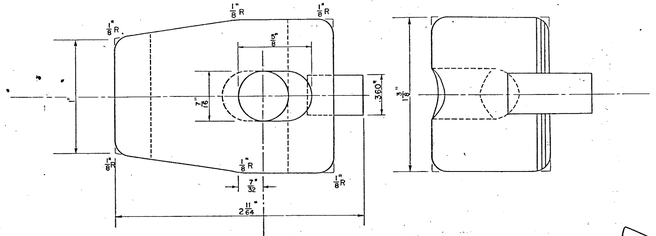
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

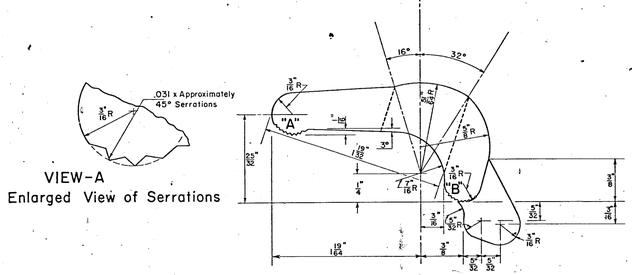
DRAWING No. 41-047

3/1/2007 GPLN

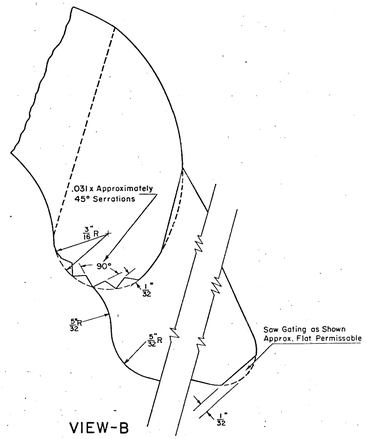
RELEASED FOR CONSTRUCTION 12/02/10

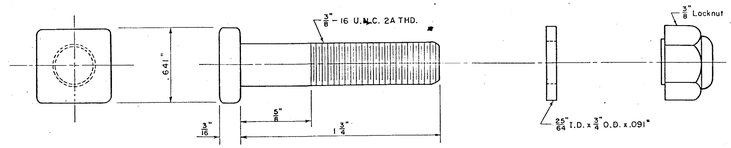
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



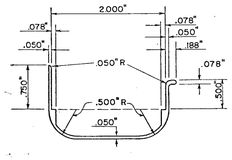


POST CLIP
Part "D" (Cast)





SPECIAL POST CLIP BOLT WITH FLAT WASHER & LOCKNUT
Part "E"



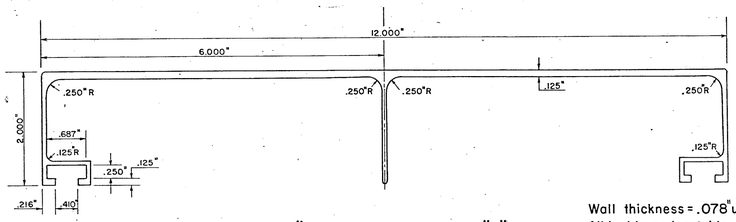
SIDE EDGE MOLDING
Extrusion "C"

GENERAL NOTES

1. Specifications: Georgia Standard and / or Special Provisions.

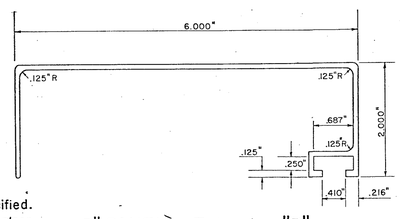
2. For assembly details on extrusions A, B, C, Parts D & E see Georgia Standard Number 9041.

3. Alternate assembly components of comparable acceptable design may be used upon the approval of the Highway Engineer.



12" PANEL - Extrusion "A"

Wall thickness = .078" unless otherwise specified.
All inside and outside corners = .031" radius unless otherwise specified.



6" PANEL - Extrusion "B"

BY	REVISIONS	DATE
K.L.C.	added General Note #2	2-27-61
A.L.G.	deleted ASTM designat. on 6 revised GEN. NOTES	9-27-66

STATE HIGHWAY DEPARTMENT OF GEORGIA
ENGINEERING DEPARTMENT

STANDARD
ALUMINUM BOLTED EXTRUDED PANELS
ASSEMBLY COMPONENTS DETAILS (FOR SPECIAL ROADSIDE SIGNS)

NO SCALE — JUNE, 1960

DESIGNED W.S.D.
DRAWN O.R.A.
TRACED G.C.R.
CHECKED C.E.B. W.C.L.

SUBMITTED [signature] STATE ROAD DESIGN ENGINEER
APPROVED [signature] STATE HIGHWAY ENGINEER

NUMBER 9042

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-048

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE: PANEL & LEGEND DETAILS NOT SHOWN ON THIS STANDARD. (COVERED UNDER SEPARATE DRAWINGS).

"X" = AVERAGE HEIGHT FROM GROUND LINE TO BOTTOM OF SIGN.

TYPICAL SIGN ERECTION DETAILS

ELEVATION   DETAIL "A"

TYPE 1 FOOTING DETAILS
(USE DETAIL "A" IF ROCK IS ENCOUNTERED)

NOTE: STUB POST SIZE SAME AS FOR SIGN POST.

*TYPE 3 FOOTING DETAILS

SECTION B-B

*FOR TYPE 3 FOOTINGS WITH LESS THAN 4'-6½" EARTH COVER TO ROCK, BUILD FOOTINGS ACCORDING TO DETAIL "A". THE DIAMETER OF THE UPPER CONCRETE PORTION OF THE FOOTING WILL BE 3'-0". SHOULD 4'-6½" OR MORE OF EARTH COVER EXIST BUT LESS THAN "D" SECURELY SOCKET PILE INTO ROCK STRATA 1'-0"±. PILE SHALL BE EXTENDED INTO CONCRETE 1'-6".

IN CASE THE PILE CAN NOT BE SECURELY SOCKETED INTO ROCK 1'-0"±, THE SIGN MAY BE MOVED UP TO 50 FEET UP OR DOWN THE ROAD TO OBTAIN A BETTER FOUNDATION.

TYPICAL SIDE VIEW OF HINGE

NOTE: FLANGE HOLES FOR HINGE SHALL BE DRILLED OR SUB-PUNCHED & REAMED.

NOTE: INSTALL FUSE WITH NOTCHES TOWARD BASE.

DETAIL "B"

FABRICATOR NOTE: IMPORTANT—ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN THE SHOP FOLLOWING A METHOD APPROVED BY THE ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO OBTAIN THE FOLLOWING MINIMUM RESIDUAL TENSIONS IN EACH BOLT.

BOLT SIZE	MIN. RESIDUAL BOLT TENSION
½"Φ	12,050 LBS.
⅝"Φ	19,200 LBS.
¾"Φ	28,400 LBS.
⅞"Φ	36,050 LBS.

USE H.S. BOLTS WITH HEX. HD., & HEX. NUT, ONE FLAT WASHER UNDER EACH BOLT HD. & BEVEL OR FLAT WASHER (WHERE REQUIRED) UNDER EACH NUT.

FUSE PLATE DETAIL
(SEE TABLE FOR DIMENSIONS)

DESIGN DATA

ADAPTED FROM THE STATE HIGHWAY DEPARTMENT OF TEXAS. DESIGN WIND VELOCITY AS SHOWN.

POST SIZE (3)	BOLT SIZE & TORQUE	a	b	c	d	e	f	g	h	i	j	k	ℓ	m	n	p	q	r	s	BOLT DIA.	STUB LENGTH	STUB PROJECTION
	BASE CONNECTION DATA TABLE										FUSE PLATE DATA TABLE										STUB POST DATA	
S 3x5.7	½"Φ X 2½" TORQUE = 200"#	SEE DETAIL									3⅛"	1½"	1⅛"	2⅝"	1½"	9/16"	½"	9/16"	¼"	½"Φ	1'-6"	3½"
S 4x7.7											3⅛"	1½"	1⅛"	2⅝"	1½"	9/16"	½"	9/16"	¼"	½"Φ	1'-6"	3½"
W 6x9	⅝"Φ X 2¾" TORQUE = 450"#	5"	2"	1¼"	2¾"	1⅛"	¾"	½"	¼"	11/32"	3⅝"	2"	1⅛"	4"	2¼"	⅞"	½"	9/16"	¼"	½"Φ	2'-0"	3"
W 6x12											3¾"	2"	1⅛"	4"	2¼"	⅞"	⅝"	11/16"	⅜"	⅝"Φ	2'-0"	3"
W 6x15											4½"	2½"	1¼"	6"	3½"	1¼"	¾"	13/16"	½"	¾"Φ	2'-6"	3"
W 8x18											4½"	2½"	1¼"	5¼"	2¾"	1¼"	¾"	13/16"	½"	¾"Φ	2'-6"	3"
W 8x21	¾"Φ X 3½" TORQUE = 750"#	6"	2¼"	1⅜"	3½"	1¼"	1"	¾"	5/16"	13/32"	4⅞"	2½"	1½"	5¼"	2¾"	1¼"	⅞"	15/16"	9/16"	⅞"Φ	3'-0"	2½"
W 10x22											5⅜"	3"	1½"	5¾"	2¾"	1½"	⅞"	15/16"	9/16"	⅞"Φ	3'-0"	2½"
W 10x26											5⅜"	3"	1½"	5¾"	2¾"	1½"	⅞"	15/16"	9/16"	⅞"Φ	3'-0"	2½"
W 12x26											5⅜"	3"	1½"	6½"	3½"	1½"	⅞"	15/16"	9/16"	⅞"Φ	3'-0"	2½"

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION

1. ASSEMBLE POST TO STUB WITH BOLTS & WITH ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES.
2. SHIM AS REQUIRED TO PLUMB POST.
3. TIGHTEN ALL BOLTS TO THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS & SHIMS & TO CLEAN BOLT THREADS. THEN LOOSEN EACH BOLT IN TURN & RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
4. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

GENERAL NOTES

1. SPECIFICATIONS – GEORGIA STANDARD AND/OR SPECIAL PROVISIONS.
2. ALL CONCRETE SHALL BE CLASS "A".
3. (2) ALL STRUCTURAL STEEL SHALL BE A.S.T.M. DESIGNATION A-36 & SHALL BE GALV. AFTER FABRICATION IN ACCORDANCE WITH A.S.T.M. SPECIFICATION A-123 & A-153 (EXCEPT AS NOTED AT FUSE PLATES). ALL HOLES SHALL BE DRILLED ⊚ & ALL CUTS SHALL PREFERABLY BE SAW CUTS. FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND FLAT & SMOOTH. STEEL ℄'s SHALL BE A-36.
4. ALL HIGH STRENGTH BOLTS, NUTS, & WASHERS SHALL CONFORM TO A.S.T.M. A-325. TIGHTEN THE HIGH STRENGTH BOLTS IN THE BASE CONNECTION ONLY TO THE TORQUE SHOWN IN THE TABLE. DO NOT OVERTIGHTEN.
5. POSTS MUST BE PLUMB & LOCATED AS SPECIFIED.
6. THE FACE OF ALL FLANGES OF POSTS SHALL BE IN THE SAME PLANE.
7. SIGN FACES SHALL BE ORIENTED TO AVOID SPECULAR REFLECTION ORDINARILY BY A SLIGHT TURNING AWAY FROM THE ROADWAY OF APPROXIMATELY 3 DEGREES. CARE SHALL BE TAKEN TO KEEP THE ADJUSTMENT SMALL SO AS TO MAINTAIN ADEQUATE REFLECTIVE VALUES.
8. EXCAVATION – DURING EXCAVATION, SURROUNDING SOIL SHALL REMAIN UNDISTURBED. ANY BACKFILLING REQUIRED SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
9. FOR FIELD REPAIR OF DAMAGE TO SPELTER COATING DUE TO WELDING OR OTHER CAUSES, SEE THE STANDARD SPECIFICATIONS.
10. OTHER REQUIREMENTS – FOR GENERAL NOTES & CONTRACT REQUIREMENTS, SEE SPECIAL PLANS, SUPPLEMENTAL SPECS. & SPECIAL PROVISIONS.
11. PILES SHALL CONFORM TO THE STANDARD SPECIFICATIONS.

⊚ EXCEPT AS NOTED.

SIGN POST AND STUB POST
ELEVATION FOR S SHAPES (3)

SECTION C-C   SECTION D-D

SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER & IN GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATIONS ON LEFT SHOULDER.

(2) STEEL ℄ DETAIL
SECTION E-E

SECTION G-G   SECTION H-H
(SEE TABLE FOR DIMENSIONS)

NOTE: SECTIONS SHOWN ARE FOR INSTALLATIONS ON RT. SHOULDER & IN GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATION ON LT. SHOULDER.

FURNISH 2, .012"± THICK & 2, .032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M. – B 36.

SHIM DETAIL

STIFFENER PLATE DETAIL
(SEE TABLE FOR DIMENSIONS)

SECTION F-F

SIGN POST AND STUB POST
ELEVATION FOR S AND W SHAPES (3)

BY	REVISIONS	DATE
H.W.C.	(1) BAR DESIGNATION ADDED	3-10-71
H.W.C.	(2) CH. ℄ BARS TO ℄'S & REV. NOTE	10-7-77
R.M.U.	(3) UPDATED BEAM SIZE	10-28-81

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
ERECTION AND FOUNDATION DETAILS FOR SPECIAL ROADSIDE SIGNS BREAKAWAY TYPE POSTS

NO SCALE   JULY 1970

DESIGNED HWC
DRAWN MGN
TRACED CCG
CHECKED HJL

SUBMITTED R. L. Chapman Jr. BRIDGE ENGINEER
APPROVED J. O. Bacon Jr. STATE HIGHWAY ENGINEER

NUMBER 9054A

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

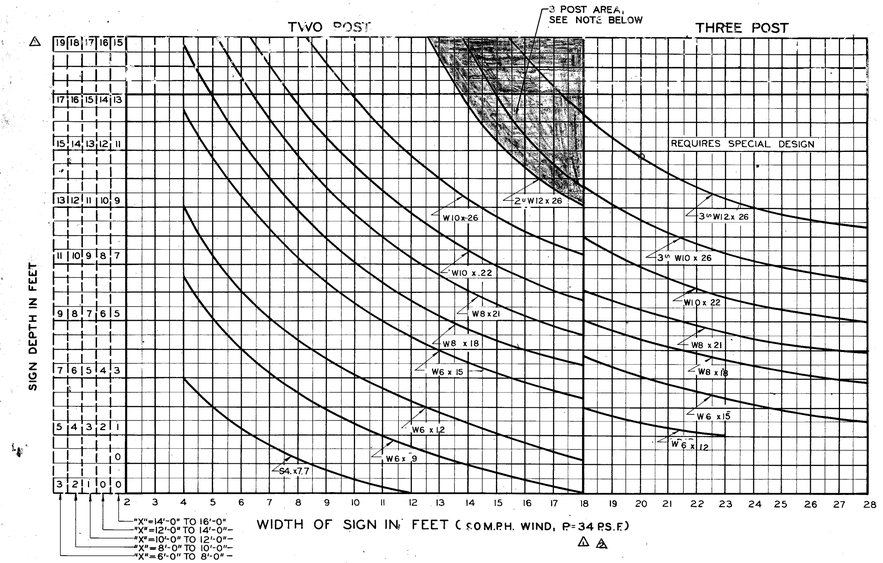
REVISION DATES

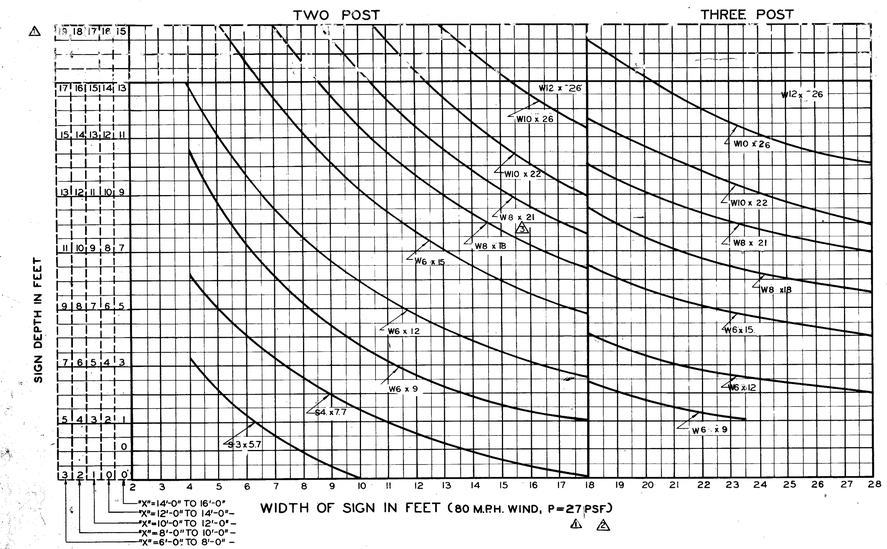
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

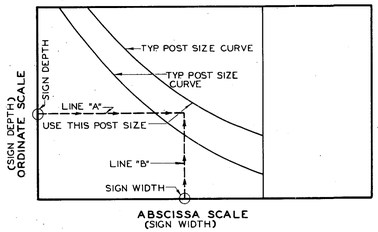
DRAWING No. 41-049

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



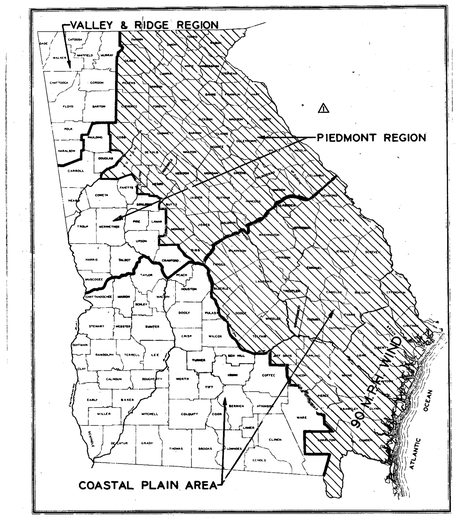




PROCEDURE TO FIND POST SIZE

1. DETERMINE SIGN WIDTH & DEPTH.
2. DETERMINE "X" DIMENSION USING GA. STD. NO. 9054-A
3. DETERMINE PROPER "X" COLUMN & READ UP ORDINATE SCALE UNTIL REACHING CORRECT SIGN DEPTH (STEP 1) IN THAT COLUMN. TURN 90° TO ORDINATE SCALE & PROJECT A LINE PARALLEL TO THE ABSCISSA SCALE. (LINE "A")
4. READ ALONG ABSCISSA SCALE TO CORRECT SIGN WIDTH. TURN 90° TO ABSCISSA SCALE & PROJECT A LINE (LINE "B") TO INTERSECT LINE "A". THE* NO. OF POSTS SHALL BE DETERMINED BY WHICH AREA THE POINT FALLS WITHIN. THE* SIZE SHALL BE THAT OF THE LARGER OF THE TWO POST SIZE CURVES THE INTERSECT POINT FALLS BETWEEN.

*WHEN A SIGN FALLS WITHIN THE TWO POST SECTION OF THE CHART ABOVE THE 2"W.12x26 CURVE, THAT SIGN SHALL REQUIRE THREE POSTS & SHALL BE PLOTTED TO ONE OF THE TWO LINES WHICH HAVE BEEN EXTENDED FROM THE THREE POST SECTION.



USE 80 M.P.H. WIND EXCEPT WHERE INDICATED BY HATCHED AREA.

REVISIONS		DATE
BY		
H.W.C.	GENERAL REVISION	10-7-77
R.M.U.	UPDATE BEAM SIZE	10-28-81
R.M.U.	COR. 2 P. to 8x21 For 80 MPH	3-26-87

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
ERECTION AND FOUNDATION DETAILS
FOR SPECIAL ROADSIDE SIGNS
BREAKAWAY TYPE POSTS

NO SCALE JULY 1970

DESIGNED HWC
DRAWN MGN
TRACED CCG
CHECKED

SUBMITTED R. L. Chapman, Jr. BRIDGE ENGINEER
APPROVED J. O. Bacon STATE HIGHWAY ENGINEER

NUMBER 9054-B

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

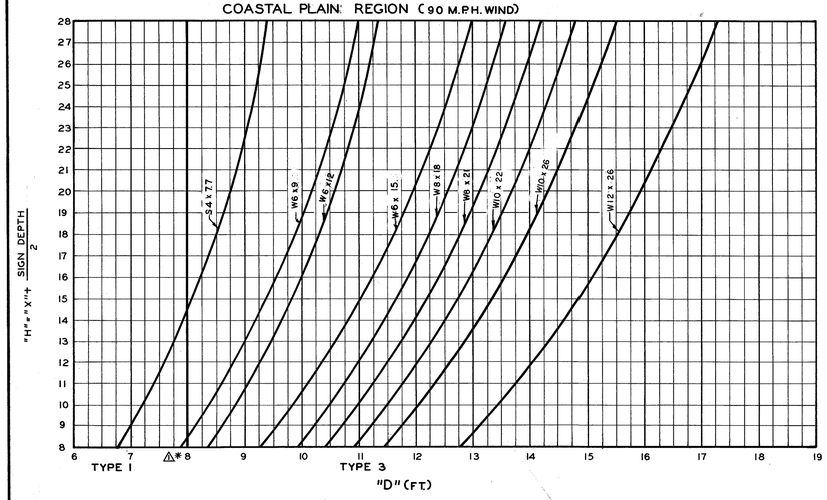
DRAWING No. 41-050

3/1/2007 GPLN

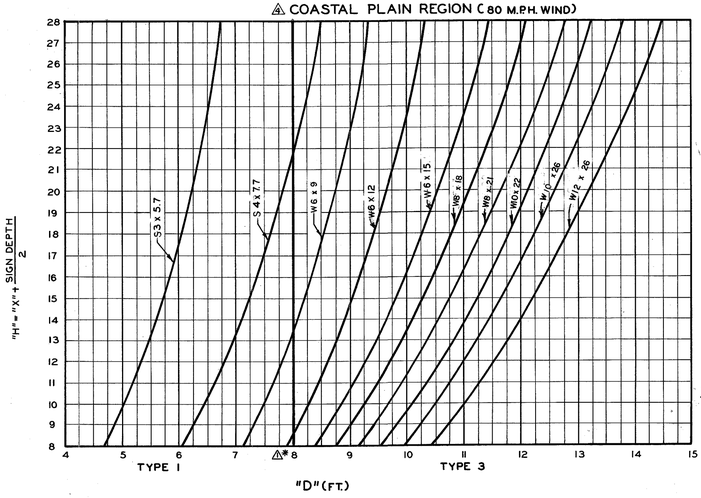
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	545	668

RELEASED FOR CONSTRUCTION 12/02/10

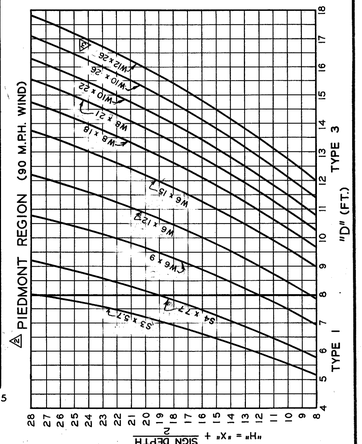
△△ COASTAL PLAIN REGION (90 M.P.H. WIND)



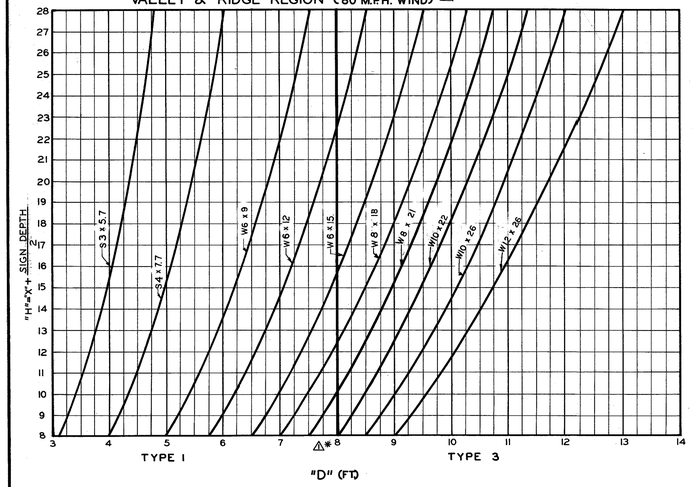
△ COASTAL PLAIN REGION (80 M.P.H. WIND)



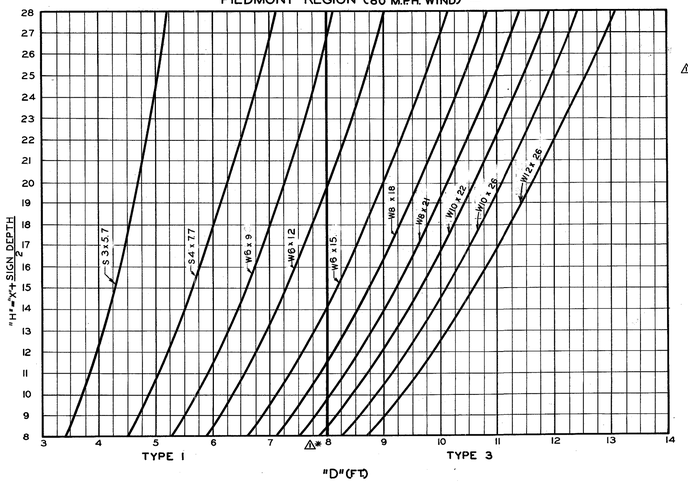
△ PIEDMONT REGION (30 M.P.H. WIND)



VALLEY & RIDGE REGION (80 M.P.H. WIND) △



PIEDMONT REGION (80 M.P.H. WIND) △

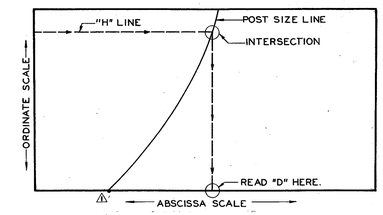


PROCEDURE TO FIND FOOTING DEPTH

1. DETERMINE REGION SIGN IS LOCATED IN FROM GA. STD. NO. 9054-B.
2. DETERMINE "H" ("H"= "X"+ ½ SIGN DEPTH) USING GA. STD. NO. 9054-A.
3. DETERMINE POST SIZE FROM GA. STD. NO. 9054-B.
4. ON PROPER CHART (STEP 1) READ UP ORDINATE SCALE TO PROPER "H" (STEP 2), THEN READ ACROSS ABSCISSA SCALE TO CORRECT POST SIZE. "D" (FOOTING DEPTH) CAN BE READ FROM ABSCISSA SCALE DIRECTLY BELOW INTERSECTION OF POST SIZE LINE & "H" ORDINATE.

△*5. FOR FOOTING DEPTHS BELOW 8', USE TYPE 1 FOOTING, FOR FOOTING DEPTHS 8' & ABOVE, USE TYPE 3 FOOTING.

△6. FOOTING DEPTH "D" SHALL BE READ TO THE NEXT HIGHER 3 INCH INCREMENT, WHEN "D" FALLS BETWEEN 3 INCH INCREMENTS.



EXAMPLE

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD ERECTION AND FOUNDATION DETAILS FOR SPECIAL ROADSIDE SIGNS BREAKAWAY TYPE POSTS

NO SCALE — JULY 1970

DATE	REVISIONS	BY
10-28-81	UPDATED BEAM SIZE	R.M.U.
10-14-70	NOTE REMOVED & NOTE 5 ✱ ADDED	H.W.C.
10-7-77	ADDED TABLE & REV. WIND	H.W.C.
11-29-77	CORR. PIED. REG. CHART	R.M.U.

DESIGNED HWC
DRAWN MGN
TRACED CCG
CHECKED HJL

SUBMITTED R. L. Chapman Jr. BRIDGE ENGINEER
APPROVED J. C. Bacon STATE HIGHWAY ENGINEER

NUMBER 9054C

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
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NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-051

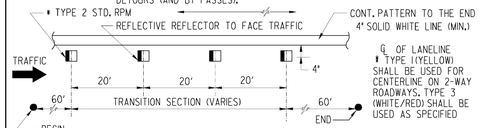
RELEASED FOR CONSTRUCTION 12/02/10

8/3/2006 11:33:34 AM \\GDOT-DSN1\GDPLOT\QCF\go_1ff_output.qcf gowens M:\GARY\REVISED 9100\9100.prf GO-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TEMPORARY RAISED PAVEMENT MARKER DETAIL

INSTALLATION PATTERN FOR LATERAL MAINLINE SHIFTS AND CROSSOVER OPERATIONS. ALSO APPLICABLE FOR DETOURS (AND BY-PASSES).



PAVEMENT MARKER INSTALLATION SHALL BEGIN 60 FEET IN ADVANCE OF BEGINNING OF THE SHIFT OR TRANSITION ALIGNMENT, CONTINUE THRU THE TRANSITION AREA, & EXTEND 60 FEET BEYOND THE INTERSECTION WITH THE TEMPORARY ALIGNMENT. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE GA. STD. SPECIFICATIONS.

STANDARD LEGEND

- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

GENERAL NOTES :

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS. UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM. WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED. EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES. REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

BY	DATE	REVISION
GLO	4-24-08	SPEC. BAR. SH. SPEC.
		DETAILS.
	3-30-06	REVISED GENERAL NOTES AND LEGEND, DELETED TWO

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL
GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9100

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-052

3/1/2007 GPLN

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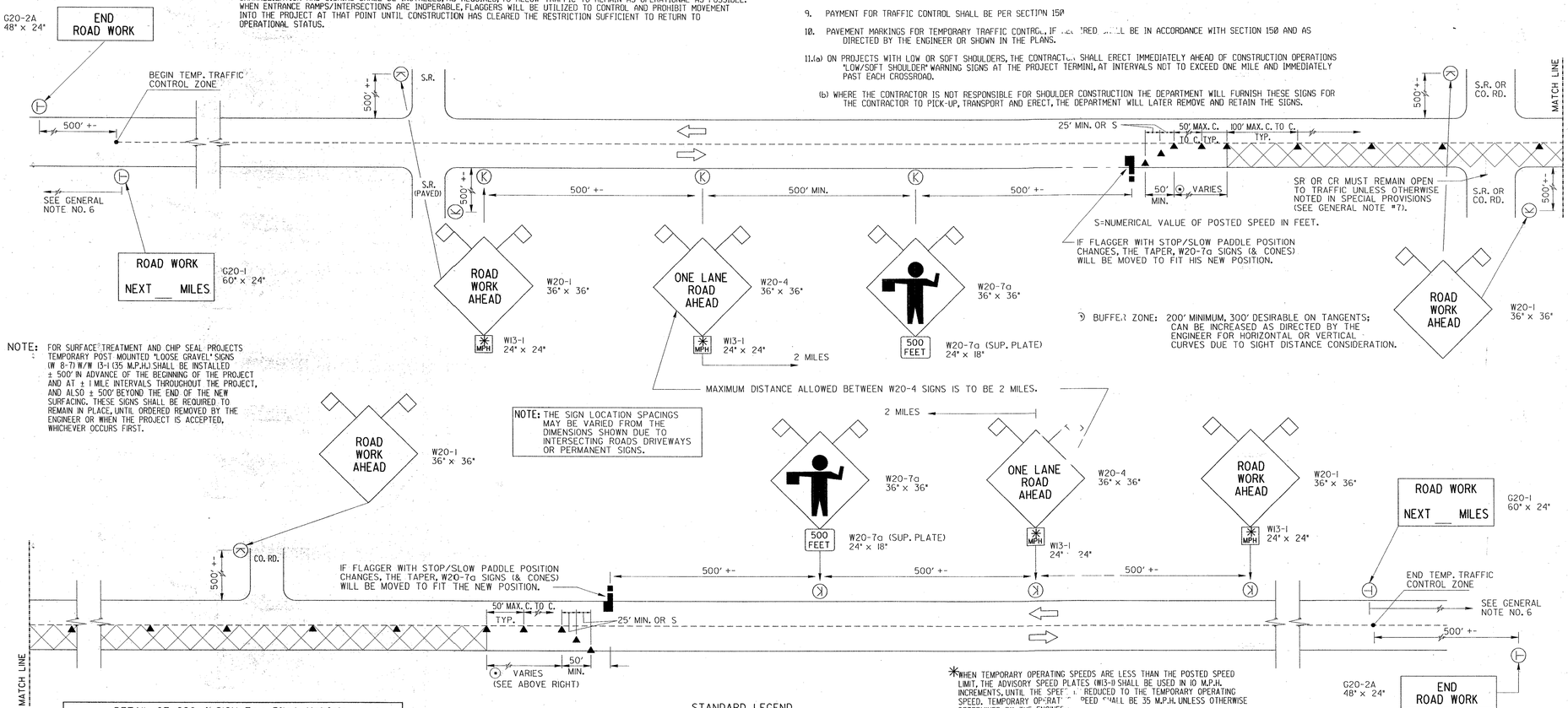
RELEASED FOR CONSTRUCTION 12/02/10

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150.)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE MOUNTED SIGNS SHALL BE MOUNTED SO THAT THE BOTTOM OF THE SIGN WILL BE BETWEEN 1 FT. AND 3 FT. ABOVE THE PAVEMENT EDGE. ALL TEMPORARY POST MOUNTED SIGNS SHALL BE MOUNTED SO THAT THE BOTTOM OF THE SIGN BE 7' MINIMUM ABOVE PAVEMENT EDGE.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, ALL CHANNELIZING DEVICES [illegible]ANCE OF AND THROUGHOUT THE WORK AREA SHALL BE STRIPED DRUMS AND SHALL HAVE 10"x10" YELLOW PANELS WITH TYPE V SHEETING ON THE TAPERS ONLY. SPACING OF DEVICES SHALL BE AS SHOWN DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150. WARNING FLAGS OR / AND FLASHING LIGHTS ON SIGNS SHALL BE AS REQUIRED BY SECTION 150.
7. FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTRIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150
10. PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTRO[illegible] IF [illegible]RED [illegible]L BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
11. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACT[illegible] SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.

(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

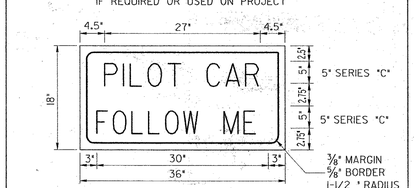


NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED "LOOSE GRAVEL" SIGNS (W 8-7) W/W 13-1 (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS DRIVEWAYS OR PERMANENT SIGNS.

*WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEE[illegible] REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERAT[illegible] SPEED [illegible]SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.

DETAIL OF G20-4 SIGN For Pilot Vehicle
IF REQUIRED OR USED ON PROJECT



STANDARD LEGEND

- 18" X 18" FLOURESCENT RED/ORANGE OR ORANGE/RED WARNING FLAG REQUIRED ON ALL PORTABLE MOUNTED SIGNS
- STRIPED DRUM
- PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- TEMPORARY POST MOUNTED SIGN - NO FLAGS REQUIRED (7' MOUNT HEIGHT)
- PORTABLE MOUNTED SIGN - FLAGS REQUIRED (1' TO 3' MOUNT HEIGHT)
- WORK AREA
- TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TRAFFIC CONTROL DETAIL

FOR LANE CLOSURE ON TWO-LANE HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____ BY

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

DATE REVISION

NUMBER 9102

THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

GEORGIA STANDARDS

DRAWING No. 41-053

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

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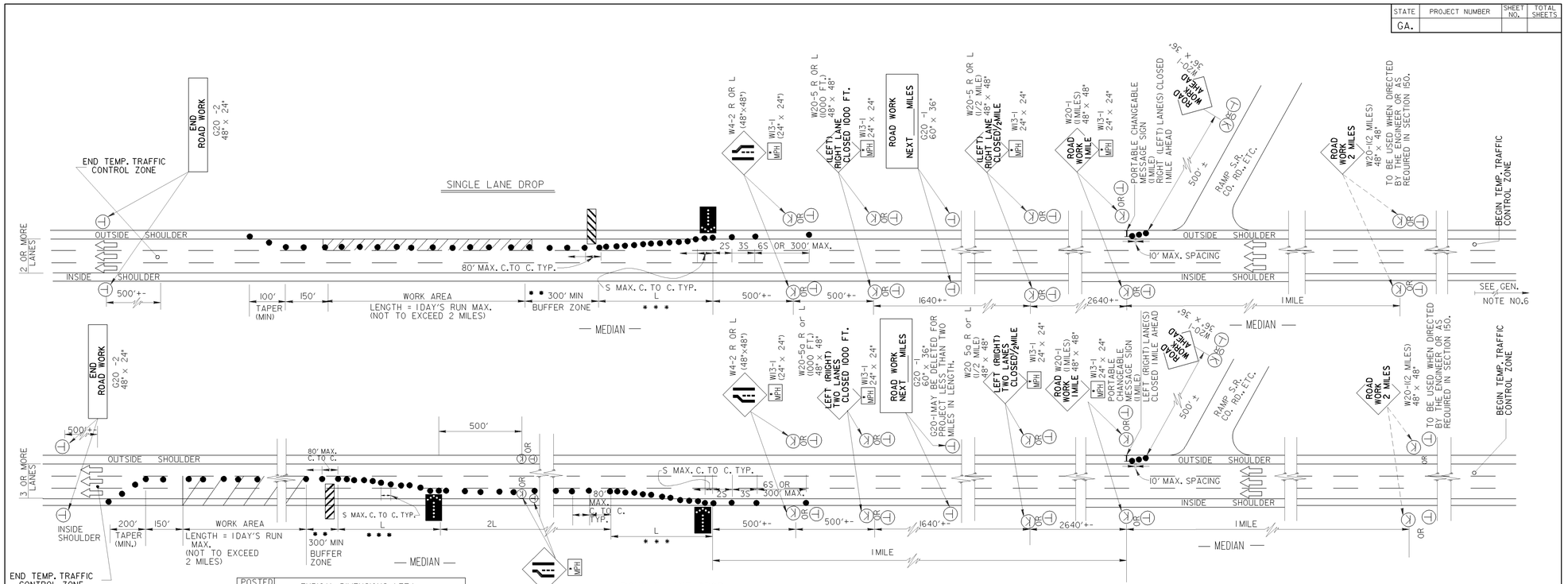
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



POSTED SPEED MPH PRIOR TO WORK	TYPICAL DIMENSIONS (FT.) L (FOR 12' OFFSET)	S	2S	3S	6S or 300'MAX.
25	125	25	50	75	150
30	180	30	60	90	180
35	245	35	70	105	210
40	320	40	80	120	240
45	540	45	90	135	270
50	600	50	100	150	300
55	660	55	110	165	300
60	720	60	120	180	300
65	780	65	130	195	300

(SEE FORMULA FOR OTHER CONDITIONS)

STANDARD LEGEND

- STRIPED DRUM
- TRAFFIC CONE - 28" MIN. (DAYTIME USE ONLY)
- TYPE III BARRICADE (OPTIONAL)
- SEQUENTIAL OR FLASHING ARROW
- TEMPORARY POST MOUNTED SIGN (OFF SHOULDER) --FOR LONG TERM LANE CLOSURE SUCH AS STATIONARY OPERATIONS, BRIDGE WIDENING PROJECTS ETC. - (7' MOUNT HEIGHT)
- (K) PORTABLE MOUNTED SIGN (ON SHOULDER) --FOR SHORT TERM LANE CLOSURE SUCH AS MOVING OPERATIONS, RESURFACING PROJECTS, ETC. (SEE GENERAL NOTE. NO. 3)
- WORK AREA
- PORTABLE CHANGEABLE MESSAGE SIGN

L=WS FOR SPEEDS OF 45 M.P.H. OR GREATER;
L= WS²/60 FOR SPEEDS OF 40 M.P.H. OR LESS
WHERE:
L=MIN. LENGTH OF TAPER FOR LANE CLOSURE
S=POSTED SPEED
W=WIDTH OF OFFSET.

* WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED.

** BUFFER ZONES OF 300' MINIMUM, 500' DESIRABLE ARE REQUIRED FOR TANGENT SECTIONS AND SHALL BE INCREASED FOR HORIZONTAL OR VERTICAL CURVES DUE TO SIGHT DISTANCE CONSIDERATIONS.

* * * TAPERS REQUIRE THE USE OF SIX (6") INCH TOP STRIPES. IF CONDITIONS EXIST INTO THE NIGHT. SEE GENERAL NOTES NO. 5.

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED BY SECTION 150.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.

GENERAL NOTES:

10. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT, THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
11. IF EXISTING ADVANCE WARNING SIGNS (ROAD WORK, W20-1) ARE IN PLACE, AND ARE IN CONFLICT WITH THE LANE CLOSURE SIGNS SHOWN, THEY SHALL BE RESET IN ADVANCE OF LANE CLOSURE WITH THE MINIMUM SIGN SPACING REQUIRED BY THE STANDARDS AND THE MUTCD MAINTAINED.
12. HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.
13. THE G20-1 SIGNS SHOULD BE PLACED AT EACH TERMINUS OF THE PROJECT, PREFERABLY BETWEEN THE LAST ADVANCE WARNING SIGN(ROAD WORK- 500 FT.) AND BEFORE THE ADVANCE WARNING SIGNS FOR LANE SHIFTS, LANE CLOSURES, ETC.
14. THE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE PLACED ONE MILE IN ADVANCE OF A LANE CLOSURE WITH A MESSAGE DENOTING THE APPROPIATE LANE CLOSURE ONE MILE AHEAD.

DATE	REVISION	BY
9-4-07	ADDED POTABLE MESSAGE SIGN. ADDED GEN. NOTE #14	GLO
3-30-06	REMOVED FLAGS AND REV. GENERAL NOTES, REV. SIGN G20-2A TO G20-2.	GLO

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL DETAIL
FOR LANE CLOSURE ON MULTI-LANE
DIVIDED HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

DES. DRW. TRA. CHK.

(SUBMITTED) _____ STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) _____ CHIEF ENGINEER

NUMBER 9106

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THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
GEORGIA STANDARDS

DRAWING No. 41-054

3/1/2007 GPLN

23-DEC-2010 11:46 JParks	006043EC01 8825Full.pen	Y:\Roadways\07400004\006043\DGN\006043EC01.dgn GRWCOV	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	549	668

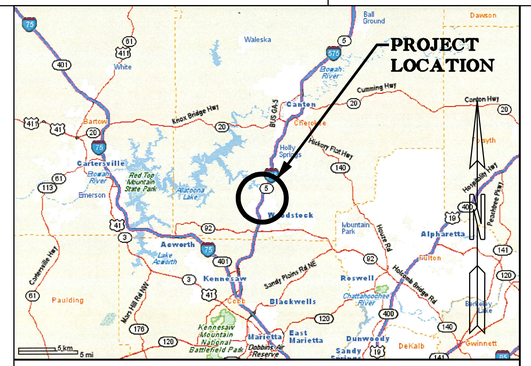
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION, SEDIMENT, & POLLUTION CONTROL PLAN
RIDGEWALK PARKWAY OVER I-575
CHEROKEE COUNTY

FEDERAL AID PROJECT
CSNHS-0006-00(043)

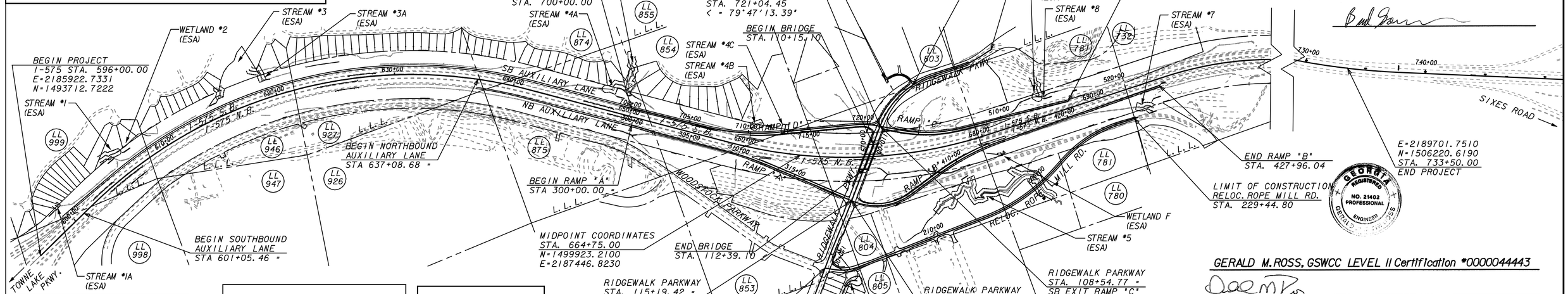
FEDERAL ROUTE # I-575
STATE ROUTE # 5
P.I.NO. 0006043

RELEASED FOR CONSTRUCTION
12/02/10



LOCATION SKETCH

TRAFFIC DESIGN DATA:	I-575	RIDGEWALK PKWY.
TRAFFIC A.D.T.(V.P.D.)	88120 (2012)	8320 (2012)
TRAFFIC A.D.T.(V.P.D.)	160500 (2032)	15950 (2032)
TRAFFIC D.H.V.(V.P.H.)	13620 (2032)	1590 (2032)
DIRECTIONAL DIST.	51%	53%
% TRUCKS	6	3
24 HR.TRUCKS %	7	5
SPEED DESIGN (MPH)	75	45



"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.

GERALD M. ROSS, GSWCC LEVEL II Certification *0000044443

BRAD GOWEN, GSWCC LEVEL II Certification *0000049259

11/30/2010

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1985 (NAD 1983)/(94) WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

24 Hour Contact
Ryan Beech
770-422-7520

MID-POINT COORDINATES
STATION= 664+75.00
N 1499923.2100
E 2187446.8230
LAT 34°07'21.9"
LONG 84°31'38.2"

LAND DISTRICT 15

PLANS PREPARED BY
THE LPA GROUP
TRANSPORTATION CONSULTANTS
A UNIT OF MICHAEL BAKER CORPORATION
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 400 800 1600

CSNHS-0006-00(043)
CHEROKEE COUNTY

COUNTY No. 057 PROJECT No. CSNHS-0006-00(043)	CHEROKEE COUNTY
LENGTH OF PROJECT	MILES
NET LENGTH OF ROADWAY	3.123
NET LENGTH OF BRIDGES	0.042
NET LENGTH OF PROJECT	3.165
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	3.165

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.

GEORGIA REGISTERED 11/30/2010 NO. 0001702 PROFESSIONAL ENGINEER BRADLEY T. GOWEN
GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL # 0000049259

GEORGIA REGISTERED NO. 21402 PROFESSIONAL ENGINEER GERALD M. ROSS

PLANS COMPLETED 10-01-2010

REVISIONS

DATE	REQUESTED BY	PAGE NUMBER	SIGNATURE	GSWCC LEVEL II *
12/20/10	EPD	549,551,576,616,654		0000049259

DRAWING No. 50-01

RELEASED FOR CONSTRUCTION 12/02/10

Georgia Department of Transportation ESPCP General Notes
Updated: August 26, 2008

(Sheet 1 of 5)

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 states that **"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 specifications 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 applicable 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.

The initial BMP installation is shown in the initial phase and this includes all perimeter silt fence controls and retrofit bmp's for sediment basins 1 & 4. The silt fence and retrofits shall be installed concurrent with clearing and grubbing operations. Intermediate and final BMP's are shown throughout all stages of the intermediate phase. The BMP's to be installed during these stages are additional silt fence due to temporary pavement, filter rings, sediment inlet traps, ditch checks, slope mats, rip rap, construction exits, temporary grassing, mulching, permanent grassing, temporary pipe slope drains, and the remaining sediment basins 2A, 2B, 3, 5, 6, 7, & 8. These BMP's shall be installed concurrently with mass grading operations with the exception of ditch checks, inlet traps and filter rings which should be installed prior to mass grading operations. The contractor's grading plan shall be developed so that the sediment basins are constructured as early as possible during the mass grading operations. During mass grading operations, runoff from disturbed area must be directed to sediment control BMP's. Sediment basins are not utilized at all outfalls due to adverse impacts of constructing and removing the basin. Final BMP's included in this project are rip rap, grassing, and slope mats. These items are installed during mass grading operations, but are noted on the plans as permanent BMP's for final stabilization of that stage.

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

SOIL SERIES INFORMATION
A project specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and the in the selection of permanent vegetation and fertilizers.

POST-CONSTRUCTION BMP'S
All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of vegetation, permanent slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channel/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 Typical 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 storm 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 deductions 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.

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 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.

MONITORING SAMPLING METHODS & PROCEDURES
See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.

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 utilizing by 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 ID	Total Drainage area (acres)	Disturbed area (acres)	Required Sediment storage Volume (yd3)	Total Storage volume provided (yd3)	Silt Fence with J-Hooks		Check Dam (6-80 yd3 each)		Inlet sediment Traps (5-25 yd3 each)		Sediment Basins (yd3 each)	
					LF	Total Volume	# of Devices	Total Volume	# of Devices	Total Volume	# of Devices	Total Volume
STA. 599+86 LT	1.13	1.13	76	128			8	128				
STA. 606+60 LT	1.48	1.48	99	210			10	210				
STA. 619+39 LT	2.24	2.24	150	187	2200	142			3	45		
STA. 641+80 LT	3.20	3.20	214	303	520	43	5	250	1	10		
STA. 649+45 LT	18.4	5.61	1233	1504	2500	142	10	412			3	950
STA. 705+10 LT	1.00	0.65	67	110	265	22	1	78	1	10		
STA. 713+44 LT	12.4	3.41	833	934	1350	113	42	551	7	70	2	200
STA. 719+80 LT	1.25	0.98	84	85	950	85						
STA. 219+57 RT	37.7	11.8	2526	2791	7200	421	75	945	27	270	2	1155
STA. 426+82 RT	6.40	5.80	429	672	2850	143	30	519	1	10		
STA. 601+85 LT	1.64	1.64	110	159	950	79			8	80		
STA. 120+94 RT	1.27	1.27	85	87	560	47			4	40		

Where sediment basins are utilized they shall be constructed concurrently with clearing and grubbing operations. However, sediment basins are not utilized at all outfalls due to adverse impacts of constructing and removing the basin to the surrounding ESA'S.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

ESPC GENERAL NOTES

DRAWING No.
51-001

RELEASED FOR CONSTRUCTION 12/02/10

Georgia Department of Transportation ESPCP General Notes
Updated: August 26, 2008
(Sheet 2 of 5)

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".

STREAM BUFFER ENCROACHMENT
Stream Buffers are 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)			
STREAM 1A	I-575	600+00, LT	600+00, RT	Warm	NO	No
STREAM 1	I-575	604+00, LT	607+34, LT	Warm	NO	NO
STREAM 3	I-575	615+50, RT	615+50, LT	Warm	NO	NO
STREAM 3A	I-575	619+50, LT	619+50, LT	Warm	Yes	NO
STREAM 4A	I-575	647+40, LT	649+80, LT	Warm	NO	NO
STREAM 4B	RAMP D	710+50, LT	710+50, LT	Warm	Yes	NO
STREAM 4C	RAMP D	713+00, LT	713+00, LT	Warm	Yes	NO
STREAM 5A	RELOC. ROPE MILL RD	218+20, LT	218+80, LT	Warm	NO	NO
STREAM 5	RELOC. ROPE MILL RD	210+70, LT	219+60, RT	Warm	Yes	NO
STREAM 7	RAMP C RAMP B	425+35, LT	427+00, RT	Warm	NO	NO
Construction activities within the stream buffer consist of culvert reconstruction, minor grading operations required for slope reconstruction, guardrail installation, and base and paving operations						

*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.

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 APPLICABLE CONTRACT DOCUMENTS, SPECIAL PROVISIONS, OR LANDSCAPING PLANS.

THE SEEDING TABLE BELOW SHOULD BE USED IN DETERMINING GRASS SPECIES DEPENDENT ON PLANTING DATES. CHEROKEE COUNTY IS IN PLANTING ZONE 1.

APPLY FERTILIZER AS FOLLOWS:

AGRICULTURAL LIME-UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT APPROXIMATE RATE DETERMINED BY THE LABORATORY SOIL TEST.

FERTILIZER MIXED GRADE-UNIFORMERLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200 LBS/ACRE. IF USING HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE AS THE STANDARD FERTILIZER.

SELECT FERTILIZER MIXED GRADE SUCH AS 10-10-10, 6-12-12, 5-10-15, OR OTHER ANALYSIS WITHIN THE FOLLOWING LIMITS:
NITROGEN 5 TO 10 PERCENT
PHOSPHORUS 10 TO 15 PERCENT
POTASSIUM 10 TO 15 PERCENT
IF USING MIXED GRADE FERTILIZER FOR HYDROSEEDING, ENSURE IT HAS THE FOLLOWING ANAYSIS:
NITROGEN 5 TO 19 PERCENT
PHOSPHORUS 10 TO 19 PERCENT
POTASSIUM 10 TO 19 PERCENT

SEEDING TABLE

PLANTING ZONES	PLANTING DATES	POUNDS (KG) OF SEED PER ACRE (HECTACRE)									
		RYE GRASS MILLET CEREAL GRASS (OATS)	COMMON BERMUDA GRASS (HULLED)	COMMON BERMUDA GRASS (UNHULLED)	TALL FESCUE	WEEPING LOVE GRASS	WHITE OR CRIMSON CLOVER	COMMON VETCH	SCARIFIED INTERSTATE LESPEDEZA	UNSCARIFIED INTERSTATE LESPEDEZA	REQUIRED PERMANENT PLANTING
1	MARCH 1- MAY 15		10 (11)	10 (11)	50 (56)						COMMON BERMUDA GRASS
1	MAY 1- JULY 31		10 (11)	10 (11)							
1	AUGUST 1 - FEBRUARY 28	15 (17)									
1	NOVEMBER 15 - JANUARY 31						6 (7)				
2, 3, 4	FEBRUARY 25 - AUGUST 31		10 (11)	10 (11)							
2, 3, 4	SEPTEMBER 1 - FEBRUARY 14	15 (17)									COMMON BERMUDA GRASS
2, 3, 4	NOVEMBER 15 - JANUARY 31						6 (7)				

	PLANT THESE COMBINATIONS ON BACK SLOPES, FILL SLOPES AND AREAS WHICH WILL NOT BE SUBJECT TO FREQUENT MOWING											
1, 2	MARCH 1 - JULY 31					4 (5)			50 (56)			INTERSTATE LESPEDEZA OF CROWN VETCH
1, 2	AUGUST 1 - FEBRUARY 28				30 (34)			15 (17)		75 (84)		
3, 4	AUGUST 15 - AUGUST 31					4 (5)			50 (56)			INTERSTATE LESPEDEZA
3, 4	SEPTEMBER 1 - FEBRUARY 14	50 (56)								75 (84)		

MULCHING SCHEDULE

MULCHING MATERIAL	RATE/ACRE
DRY STRAW OR HAY	2.5 TONS
WOOD WASTE, CHIPS SAWDUST, OR BARK	6 TO 9 TONS (2 TO 3" DEEP)

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 (Acres)	Site Size (Acres)	Warm or Cold water Stream	Appendix B NTU value (outfall Monitoring Only)	Allowable NTU Increase (For Receiving Water)	Location Description
1.	Primary	710+65, LT	NOONDAY CREEK	Stage 1,2,3	Outfall	16	134	Warm	50		Outfall of Proposed Culvert Extension
2.	Alternate	219+75, LT	LITTLE RIVER	Stage 1,2,3	Outfall	3.2	134	Warm	50		Outfall pipe from sd3 #8
3.	Alternate	511+10, LT	LITTLE RIVER	Stage 1,2,3	Outfall	2.9	134	Warm	50		Outfall pipe from sd3 #5
4.	Alternate	606+75, LT	NOONDAY CREEK	Stage 1,2,3	Outfall	1.8	134	Warm	50		Outfall Of proposed ditch

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.

EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE
CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INSTALLATION OF CONSTRUCTION EXIT, PERIMETER SILT FENCE & TREE PROTECTION FENCE	■																							
CLEARING & GRUBBING	■	■	■																					
ROUGH GRADING & DRAINAGE	■	■	■	■	■	■	■	■	■															
INSTALLATION OF UTILITY LINES (S.S./WATER/STORM)	■	■	■	■	■	■	■	■																
INSTALL GRADING PHASE EROSION MEASURES								■	■															
CURB & GUTTER AND PAVEMENT										■	■	■	■	■	■	■	■							
FINAL GRADING																■	■	■	■	■	■	■		
FINAL GRADE & GRASSING																		■	■	■	■	■	■	
REMOVE TEMPORARY EROSION MEASURES AND TREE PROTECTION FENCING																								■

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TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES
12/20/10

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

ESPC GENERAL NOTES

DRAWING No.
51-002

RELEASED FOR CONSTRUCTION 12/02/10

Georgia Department of Transportation ESPCP General Notes
Updated: August 26, 2008
(Sheet 3 of 5)

MONITORING SAMPLING METHODS & PROCEDURES
OUTFALL SAMPLING:

MANUAL SAMPLING:
SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIME AS STATED IN PART IV.D.5.D.OF THE PERMIT. SAMPLING WILL OCCUR AT THE DESIGNATED REPRESENTATIVE OUTFALL. THE SAMPLE WILL BE TAKEN IN THE CENTER OF THE OUTFALL CHANNEL,A LARGE MOUTH, CLEAN,GLASS OR PLASTIC JAR/BOTTLE,LABELED WITH PROJECT NUMBER AND LOCATION WILL BE USED TO COLLECT SAMPLE.THE SAMPLE CONTAINER WILL BE HELD SUCH THAT THE OPENING FACES UPSTREAM. ONCE THE SAMPLE JAR/BOTTLE IS FULL AND CAPPED,IT WILL BE TRANSPORTED TO THE LOCATION WHERE THE TURBIDITY TESTING WILL BE CONDUCTED. SAMPLES MAY BE ANALYZED AT THE SITE WITH PROPERLY CALIBRATED PORTABLE TURBIDIMETERS. ALL TURBIDITY TESTS WILL BE CONDUCTED IMMEDIATELY BUT IN NO CASE,LATER THAN 48 HOURS AFTER THE TIME THE SAMPLE WAS OBTAINED.

AUTOMATIC SAMPLING:

SAMPLES WILL BE TAKEN AT THE APPROPRIATE TIMES AS SPECIFIED IN PART IV.D.5.D.OF THE PERMIT. AUTOMATIC SAMPLING CAN BE ACCOMPLISHED BY USING A SAMPLING DEVICE SIMILIAR TO THE ISCO MODEL 3700 OR 6700.THESE DEVICES CAN BE TRIGGERED BY FLOW METERS OR RAIN GAUGES TO COLLECT THE REQUIRED SAMPLES. THIS DETERMINATION WILL BE MADE ON A PROJECTBY PROJECT BASIS.THE PROBE FOR THE AUTOMATIC SAMPLER WILL BE PLACED IN THE CENTER OF THE OUTFALL CHANNEL. SAMPLES WILL REMAIN IN THE AUTOMATIC SAMPLER UNTIL THE NEXT BUSINESS DAY, WHEN THEY WILL BE COLLECTED AND TESTED.

TESTING:
ALL TURBIDITY TESTS SHALL BE DONE IN ACCORDANCE WITH 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED): THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT,EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD,TURBIDITY RESULTS WILL BE RECORED AND REPORTED TO EPD IN ACCORDANCE WITH PART IV.E OF THE PERMIT.

4. Inspections.
a. Permittee requirements.
(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored,used,or handled for spills and leaks from vehicles and equipment; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each 24 hour period at the site.These inspections must be conducted until a Notice of Termination is submitted.
(2). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any nonworking Saturday,non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day,whichever occurs first): (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly.Where discharge locations or points are accessible,they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).For areas of a site that have undergone final stabilization,the permittee must comply with Part IV.D.4.a.(3).These inspections must be conducted until a Notice of Termination is submitted.
(3). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e.,until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization.These areas shall be inspected for evidence of,or the potential for,pollutants entering the drainage system and the receiving water(s).Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly.Where discharge locations or points are accessible,they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
(4). Based on the results of each inspection,the site description and the pollution prevention and control measures identified in the Erosion,Sedimentation and Pollution Control Plan,the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.
(5). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection,major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan,and actions taken in accordance with Part IV.D.4.a.(4). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD.Such reports shall identify any incidents of non-compliance.Where the report does not identify any incidents of non-compliance,the report shall contain a certification that the construction site is in compliance with the Erosion,Sedimentation and Pollution Control Plan and this permit.The report shall be signed in accordance with Part V.G. of this permit.

E. Reporting.
1. The applicable permittees are required to submit a summary of the monitoring results to the EPD at the address shown in Part II.C. by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format.Upon written notification,EPD may require the applicable permittee to submit the sampling results on a more frequent basis.Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD.The sampling reports must be signed in accordance with Part V.G.Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
2. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD according to the schedule in Appendix A of this permit.The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.
3. All monitoring results shall include the following information:
a. The date,exact place,and time of sampling or measurements;
b. The name(s) of the individual(s) who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the individual(s) who performed the analyses;
f. References and written procedures,when available,for the analytical techniques or methods used;
g. The results of such analyses,including the bench sheets,instrument readouts,computer disks or tapes,etc., used to determine these results; and
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU."

F. Retention of Records
1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion,Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all monitoring information,results,and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(1)(c) of this permit.
2. Copies of all Notices of Intent,Notices of Termination,reports,plans,monitoring reports,monitoring information,including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation,Erosion,Sedimentation and Pollution Control Plans,records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the the NOT is submitted in accordance with Part VI of this permit.These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.
RETENTION OF RECORDS:
The Department will retain records in accordance with Part IV.F of the General Permit GAR 100002

d. Sampling Frequency.
(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below.For a qualifying event,samples must be taken within forty-five (45) minutes of:
(a) the accumulation of the minimum amount of rainfall for the qualifying event,if the storm water discharge to a monitored receiving water or from a monitored outfall has begun at or prior to the accumulation,or
(b) the beginning of any storm water discharge to a monitored receiving water or from a monitored outfall,if the discharge begins after the accumulation of the minimum amount of rainfall for the qualifying event.
(2). However,where manual and automatic sampling are impossible (as defined in this permit),or are beyond the permittee's control,the permittee shall take samples as soon as possible,but in no case more than twelve (12) hours after the beginning of the storm water discharge.
(3). Sampling by the permittee shall occur for the following events:
(a). For each area of the site that discharges to a receiving stream,the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours* (Monday thru Friday,8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM, excluding all non-working Federal holidays,when construction activity is being conducted by the Primary permittee) that occurs after all clearing and grubbing operations have been completed in the drainage area of the location selected as the representative sampling location;
(b). In addition to (a) above,for each area of the site that discharges to a receiving stream,the first rain event that reaches or exceeds 0.5 inch and allows for monitoring during normal business hours* that occurs either 90 days after the first sampling event or after all mass grading operations have been completed in the drainage area of the location selected as the representative sampling location,whichever comes first;
(c). At the time of sampling performed pursuant to (a) and (b) above,if BMPs are found to be properly designed,installed and maintained,no further action is required.If BMPs in any area of the site that discharges to a receiving stream are not properly designed, installed and maintained,corrective action shall be defined and implemented within two (2) business days,and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained,or until post-storm event inspections determine that BMPs are properly designed,installed and maintained; and
(d). Existing construction activities,i.e.,those that are occurring on or before the effective date of this permit,that have met the sampling required by (a) above shall sample in accordance with (b).Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for monitoring at any time of the day or week.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

ESPC GENERAL NOTES

DRAWING No. 51-003

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ENVIRONMENTAL RESOURCE IMPACT TABLE

Resource Name/Type	Location		Side	Construction Activity	Permitted Activity	Controlling Criteria	Special Provision?	Comments including any permit expiration dates
	Beginning STA	Ending STA						
STREAM 1A	599+55	600+15	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 1	604+85	606+75	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 3	615+40	616+35	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 3A	619+10	619+70	LT	Culvert Extention w/ Rip rap placement associated with Roadway Widening	39 lf of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream impacts have been mitigated through the purchase of mitigation credits, Buffer variance not required Roadway drainage exemption - work beyond 50 ft of the proposed culvert and within the buffer will require a buffer variance or written permission from EPD prior to commencement of the activity., PERMIT EXPIRES 03/18/2012
STREAM 4A	647+30	649+80	LT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
STREAM 4B	710+15	711+35	LT	Dual 18" pipe extension w/ rip rap placement, reconstruction of concrete ditch associated with Ramp D construction	64 LF of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream impacts have been mitigated through the purchase of mitigation credits, Buffer variance not required Roadway drainage exemption - work beyond 50 ft of the proposed culvert and within the buffer will require a buffer variance or written permission from EPD prior to commencement of the activity., PERMIT EXPIRES 03/18/2012
STREAM 4C	712+75	713+50	LT	Construction of 24" pipe due to construction of Ramp D	86 LF of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream impacts have been mitigated through the purchase of mitigation credits, Buffer variance not required Roadway drainage exemption - work beyond 50 ft of the proposed culvert and within the buffer will require a buffer variance or written permission from EPD prior to commencement of the activity., PERMIT EXPIRES 03/18/2012
STREAM 4D	649+00	650+70	RT	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Stream is a non-buffered state water not requiring a buffer, therefore a buffer variance is not required, impacts to the stream are not allowed, any impacts will require a permit modification or a new permit prior to commencement of activity
STREAM 5A	218+00	219+10	LT	Roadway Construction	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	107.23	No activities are to occur within the stream or its associated buffer
STREAM 5	210+40, LT	220+00, RT	Both	Construction of new 60" culvert due to relocation of Rope Mill Rd.	255 LF of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	107.23	Cherokee Darter Habitat; Temporary Orange Barrier Fence shall be utilized at this location to preserve the 25' stream buffer for as long as possible and to prevent accidental clearing of the buffer until construction of the culvert is scheduled to begin; Roadway drainage exemption - work beyond 50 ft of the proposed culvert will require a buffer variance or written permission from EPD prior to commencement of the activity; Culvert to be embedded; PERMIT EXPIRES 03/18/2012
STREAM 7	513+20, LT	427+25, RT	Both	Roadway Widening	NONE	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	No activities are to occur within the stream or its associated buffer
WETLAND F	413+30	414+00	RT	Placement of fill due to Ramp B Construction	0.02 AC of permanent impact	NWP 14 & Georgia Erosion and Sedimentation Control Act	NONE	Wetland impacts have been mitigated through the purchase of mitigation credits, PERMIT EXPIRES 03/18/2012
STREAM 5 - ESA Signs	219+10, LT & RT	220+10, LT & RT	Both	Placement of ESA signs	None	Environmental Commitments Table	107.23	Install signs as shown on the signing and marking plans

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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ESPC GENERAL NOTES

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Georgia Department of Transportation ESPCP General Notes
Updated: August 26,2008
(Sheet 4 of 5)

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

The following is a summary of project outfalls within 1 mile and within the watershed of an identified Impaired Stream Segment that has been listed for criteria violated,"Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macroinvertebrate Community),within Category 4a, 4b and 5,and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

Outfall Location(s)	Basin Name	Reach Name	Location of the Impaired stream segment as Indicated in the 305b/303d list	Criteria Violated (Bio F or Bio M)	Potential Cause (NP or UR)	Category (4a,4b or 5)	Numeric waste load allocation for sediment*
STA.599+86	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							
STA.606+60	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							
STA.619+39	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							
STA.641+80	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							

Outfall Location(s)	Basin Name	Reach Name	Location of the Impaired stream segment as Indicated in the 305b/303d list	Criteria Violated (Bio F or Bio M)	Potential Cause (NP or UR)	Category (4a,4b or 5)	Numeric waste load allocation for sediment*
STA.649+45	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							
STA.705+10	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							
STA.713+44	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							
STA.719+80	Coosa	Noonday	Cherokee County	Bio F	NP	4a,5	N/A
The additional BMPs from part III C 2 of GAR 100002 used for this outfall are as followed: d.Place a large sign (minimun 4 feet x 8 feet) on the site visible from the roadway identifying the construction site,the permittee(s),and the contact person(s) and telephone number(s). f.Conduct turbidity and Total Suspended Solids (TSS) sampling after every rain event of the 0.5 inch or greater within any 24 hour period,recognizing the exceptions specified in Part IV.D.6.d. of this permit. m.Apply the appropriate Georgia Department of Transportation approved erosion control matting or blankets or bonded fiber matrix to all slopes steeper than 3:1 r.Certified personnel shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Part IV.D.4.a(2)(a)-(c) of this permit.							

*A TMDL Implementation Plan has not been finalized for Noonday Creek. The above chart lists the 4 additional BMP's required for areas of the site that discharge within one (1) linear mile of an Impaired Stream Segment.

NOTE: Provide complete details for retention of records as per Part IV.F. of the permit.

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

ESPC GENERAL NOTES

DRAWING No. 51-005

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: REGION 1 - CHEROKEE COUNTY SWCD

Project Name: RIDGEWALK PARKWAY AT I-575
City/County: WOODSTOCK/CHEROKEE COUNTY

Address: N/A
Date on Plans: October 1, 2010

Plan Page #	Included Y/N	Item
51-05	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.)
ALL	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)
51-01	Y	3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
51-01	N	4. Provide name, address and phone number of primary permittee.
53-01 & 02	Y	5. Note total and disturbed acreage of the project or phase under construction.
50-01	Y	6. Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these area.
50-01	Y	7. Provde vicinity map showing site's relation to surrounding areas. Include desgination of specific phase, if necessary.
51-01	Y	8. Graphic scale and north arrow.
53-01 & 02	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
	* Only existing contours shown. Proposed contours handled by cross section sheets	
53-01 & 02	Y	10. Delineation and acreage of contributing drainage basins on the project site.
53-01 & 02	Y	11. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
53-01 & 02	Y	12. Delineation of 25-foot or 50-foot undisturbed buffers adjacent to state waters any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
55-01	Y	13. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
53-01 & 02	Y	14. Storm-drain pipe and weir velocities with appropriate outlet protection to accommoduate discharges without erosion. Identify/Delineate all storm water discharge points.
51-01	Y	15. Soil series for the entire site and their delineation.
55-01	Y	16. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
51-04	Y	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	N/A	18. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 17 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.
55-01	Y	19. Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets.
50-01	Y	20. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
54-ALL	Y	21. The limits of disturbance for each phase of construction.
51-01	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 not to use a sediment basin must be included in the plan for each common drainage location in which a sediment basin in not provided.
	N/A	23. Use of alternative BMPs whose performance has been documents 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.
54-ALL	Y	24. Best Management Practices to minimze off-site vehicle tracking of sediments and the generation of dust.
51-02	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.
51-01	Y	26. Provide BMPs for remediation of all petroleum spills and leaks.
52-ALL	Y	27. Location of Best Management Practices that are consistent with and no less stringent thatn the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
53-01	Y	28. Description of the nature of construction activity.
54-ALL	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.
51-02 Complete Chart	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 stablization).
51-01	Y	31. Description of the practices that will be used to reduce the pollutants in storm water discharges.
51-01	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.
50-01	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.
50-01	Y	34. Design professionals'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.
50-01	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.
53-01 & 02	Y	36. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-02	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.
51-01	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 perimter control BMPs within 7 days after installation.
51-01	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.
51-01	Y	40. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
51-01	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.
51-03	Y	42. Provide complete requirements of inspections and record keeping by the primary permittee.
51-03	Y	43. Provide complete requirements of sampling frequency and reporting of sampling results.
51-04	Y	44. Provide complete details for retention of records as per Part IV.F. of the permit.
51-03	Y	45. Description of analytical methods to be used to collect and analyze the samples from each location.
51-02	Y	46. Appendix B rationale for outfall sampling points where applicable.
51-01	Y	47. Clearly 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."**
51-01	Y	48. Clearly 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."**
51-01	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."**
52-ALL	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.
51-02	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.

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NORCROSS, GEORGIA 30092
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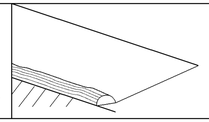
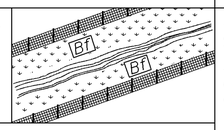
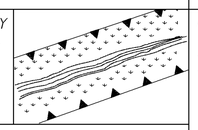
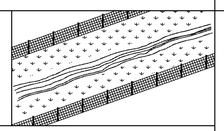
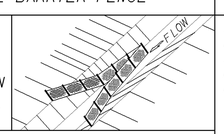
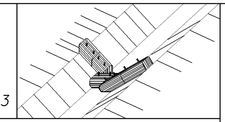
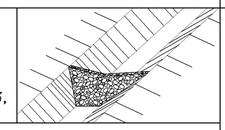
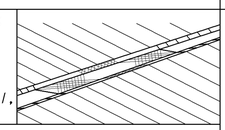
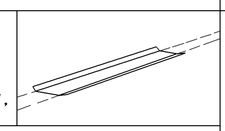
ESPC GENERAL NOTES

DRAWING No. 51-006

RELEASED FOR CONSTRUCTION 12/02/10

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Be	EARTH BERM SECTION 161 LINE CODE Be		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 "Dn" 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".

DATE	REVISION	BY
11-13-07	REV. Be, ADDED Bf, ESA, OBF AND Ch-F	GLO
1-19-07	REVISED TITLE BLOCK	GLO

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

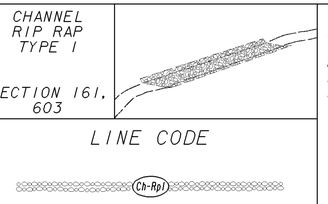
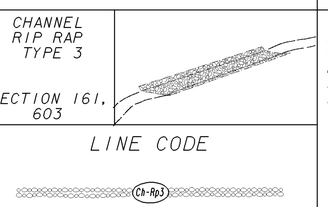
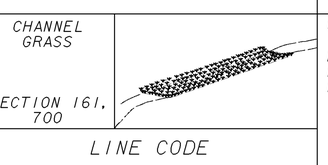
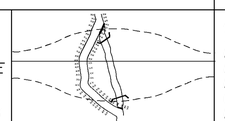
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

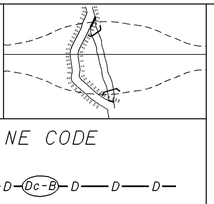
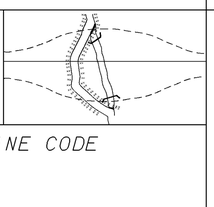
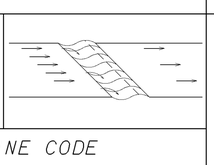
EROSION CONTROL LEGEND

DRAWING No. 52-001

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Ch-Rp1	CHANNEL RIP RAP TYPE 1 SECTION 161, 603 LINE CODE		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		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		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		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, 1.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		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		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		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		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".

DATE	REVISION
11-13-07	REVISED ORDER
1-19-07	REVISED TITLE BLOCK
BY	
GLO	
GLO	

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
EROSION CONTROL LEGEND

DRAWING No. 52-002

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441	LINE CODE: Dn2-A	A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-B	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441	LINE CODE: Dn2-B	A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFETLY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-I	PERMANENT DOWNDRAIN STRUCTURE GA. STD. 9017J TP1, D-26 TP1 SECTION 576, 577.	LINE CODE: Dn2-I	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: Dn2-2	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: Ds1	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: Ds2	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	4 FT. MIN. LINE CODE: Fr	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: Mb	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: Ps	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".

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 3 OF 6

NO SCALE — JANUARY 2007

BY	REVISION	DATE
GLO	DELETED Fe, REVISED ORDER	11-3-07
GLO	REVISED TITLE BLOCK	1-19-07

NUMBER EC-L3 — DRAWING No. 52-3

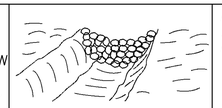
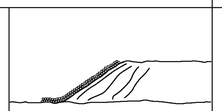
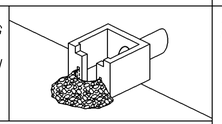
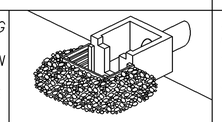
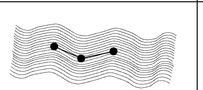
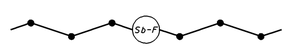
THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

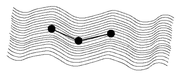
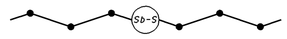
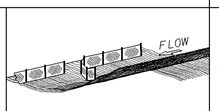
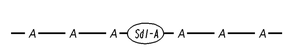
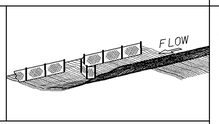
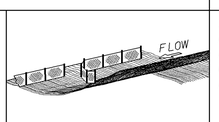
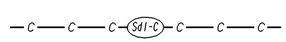
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
EROSION CONTROL LEGEND

DRAWING No. 52-003

RELEASED FOR CONSTRUCTION 12/02/10

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 "Chl". 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	DATE	REVISION
GLO	1-19-07	REVISED TITLE BLOCK
GLO	11-13-07	REV. Sb-F, Sb-S, Sdl-A, Sdl-B AND Sdl-C.

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

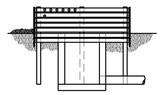
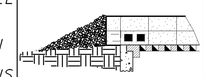
REVISION DATES

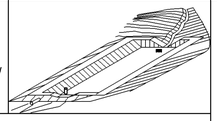
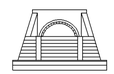
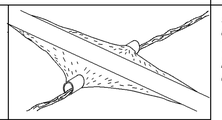
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
EROSION CONTROL LEGEND

DRAWING No. 52-004

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Sd1-Bb	BRUSH BARRIER CONSTRUCTION DETAIL	 LINE CODE * * * (Sd1-Bb) * * *	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.
	Sd1-Hb	SEDIMENT BARRIER CONSTRUCTION DETAIL SECTION 163	 LINE CODE — S — S — S — (Sd1-Hb) — S — S — S —	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.
	Sd2-B	BAFFLE BOX INLET SEDIMENT TRAP CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163	 LINE CODE (Sd2-B)	USED FOR INLETS RECEIVING RUNOFF WITH A HIGHER VOLUME OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A Q=7cfs.
	Sd2-Bg	BLOCK & GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163	 LINE CODE (Sd2-Bg)	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.
	Sd2-F	INLET SEDIMENT TRAP CONSTRUCTION DETAILS SECTION 163	 (a) OR (b) OR (c) LINE CODE (Sd2-F)	(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.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Sd2-G	GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163	 LINE CODE (Sd2-G)	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.
	Sd3	SEDIMENT BASIN CONSTRUCTION DETAIL SECTION 163	 LINE CODE (Sd3)	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.
	Sg-1 Sg-2 Sg-3	SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW LINE CODE (Sg-1) (Sg-2) (Sg-3)	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
	Sr	STREAM CROSSING SECTION 161	 LINE CODE (Sr)	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

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	REVISION	BY
11-13-07	REV. Sg-1, Sg-2 AND Sg-3	GLO
1-19-07	REVISED TITLE BLOCK	GLO

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 5 OF 6

NO SCALE | JANUARY 2007

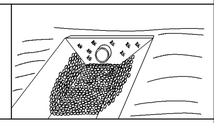
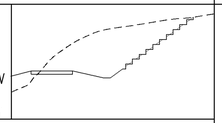
NUMBER EC-L5 | DRAWING No. 52-5

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
EROSION CONTROL LEGEND

DRAWING No. 52-005

	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 	THIS ITEM IS ADDED TO "St" WHEN ADDITIONAL PROTECTION IS NEEDED. TYPE I RIP RAP PLACED ON FILTER FABRIC SHOULD BE USED AT A 24" THICKNESS. MAY BE USED ON INLETS FOR FLOWING STREAMS. REFER TO CHARTS IN "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR QUANTITIY DETERMINATION.
	Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL SECTION 205	 LINE CODE Su (LINE CODE Su IS SHOWN ON THE PLANS FOR SERRATED SLOPES WHERE SPECIFIED IN THE SOIL SURVEY.)	PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS ITEM IS NOT REQUIRTED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE USED ON THE PROJECT, THEN THIS ITEM SHALL BE SHOWN WHERE SERRATED SLOPES ARE TO BE USED.

	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".

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 6 OF 6

NO SCALE — NOV., 2007

NUMBER EC-L6 — DRAWING No. 52-6

DATE | REVISION | BY

RELEASED FOR CONSTRUCTION 12/02/10

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

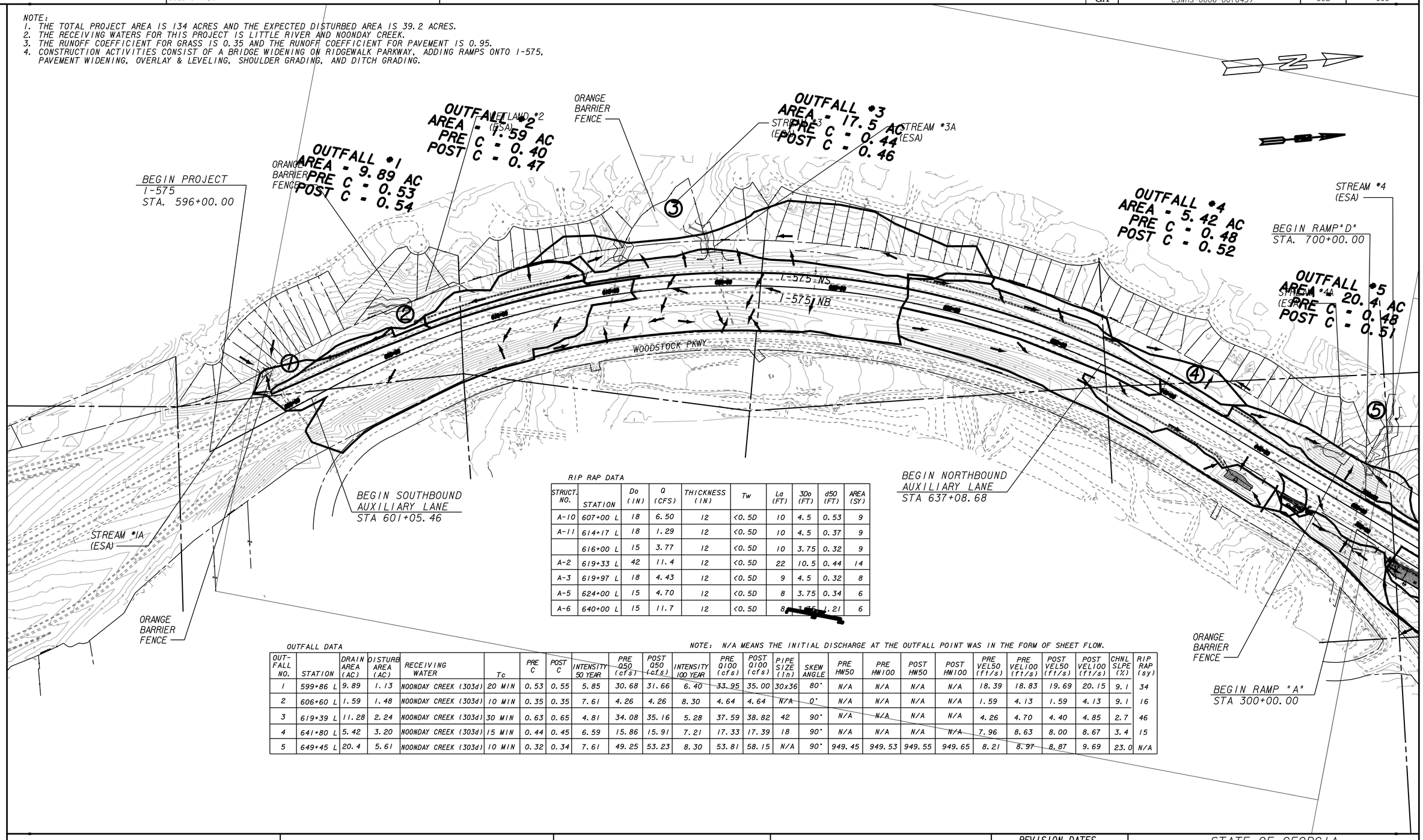
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL LEGEND

DRAWING No. 52-006

RELEASED FOR CONSTRUCTION 12/02/10

NOTE:
1. THE TOTAL PROJECT AREA IS 134 ACRES AND THE EXPECTED DISTURBED AREA IS 39.2 ACRES.
2. THE RECEIVING WATERS FOR THIS PROJECT IS LITTLE RIVER AND NOONDAY CREEK.
3. THE RUNOFF COEFFICIENT FOR GRASS IS 0.35 AND THE RUNOFF COEFFICIENT FOR PAVEMENT IS 0.95.
4. CONSTRUCTION ACTIVITIES CONSIST OF A BRIDGE WIDENING ON RIDGEWALK PARKWAY, ADDING RAMPS ONTO I-575, PAVEMENT WIDENING, OVERLAY & LEVELING, SHOULDER GRADING, AND DITCH GRADING.



RIP RAP DATA

STRUCT. NO.	STATION	Do (IN)	Q (CFS)	THICKNESS (IN)	Tw	La (FT)	3Do (FT)	d50 (FT)	AREA (SY)
A-10	607+00 L	18	6.50	12	<0.5D	10	4.5	0.53	9
A-11	614+17 L	18	1.29	12	<0.5D	10	4.5	0.37	9
	616+00 L	15	3.77	12	<0.5D	10	3.75	0.32	9
A-2	619+33 L	42	11.4	12	<0.5D	22	10.5	0.44	14
A-3	619+97 L	18	4.43	12	<0.5D	9	4.5	0.32	8
A-5	624+00 L	15	4.70	12	<0.5D	8	3.75	0.34	6
A-6	640+00 L	15	11.7	12	<0.5D	8	3.75	1.21	6

OUTFALL DATA

NOTE: N/A MEANS THE INITIAL DISCHARGE AT THE OUTFALL POINT WAS IN THE FORM OF SHEET FLOW.

OUT-FALL NO.	STATION	DRAIN AREA (AC)	DISTURB AREA (AC)	RECEIVING WATER	Tc	PRE C	POST C	INTENSITY 50 YEAR	PRE Q50 (cfs)	POST Q50 (cfs)	INTENSITY 100 YEAR	PRE Q100 (cfs)	POST Q100 (cfs)	PIPE SIZE (in)	SKEW ANGLE	PRE HW50	PRE HW100	POST HW50	POST HW100	PRE VEL50 (ft/s)	PRE VEL100 (ft/s)	POST VEL50 (ft/s)	POST VEL100 (ft/s)	CHNL SLPE (%)	RIP RAP (sy)
1	599+86 L	9.89	1.13	NOONDAY CREEK (303d)	20 MIN	0.53	0.55	5.85	30.68	31.66	6.40	33.95	35.00	30x36	80°	N/A	N/A	N/A	N/A	18.39	18.83	19.69	20.15	9.1	34
2	606+60 L	1.59	1.48	NOONDAY CREEK (303d)	10 MIN	0.35	0.35	7.61	4.26	4.26	8.30	4.64	4.64	N/A	0°	N/A	N/A	N/A	N/A	1.59	4.13	1.59	4.13	9.1	16
3	619+39 L	11.28	2.24	NOONDAY CREEK (303d)	30 MIN	0.63	0.65	4.81	34.08	35.16	5.28	37.59	38.82	42	90°	N/A	N/A	N/A	N/A	4.26	4.70	4.40	4.85	2.7	46
4	641+80 L	5.42	3.20	NOONDAY CREEK (303d)	15 MIN	0.44	0.45	6.59	15.86	15.91	7.21	17.33	17.39	18	90°	N/A	N/A	N/A	N/A	7.96	8.63	8.00	8.67	3.4	15
5	649+45 L	20.4	5.61	NOONDAY CREEK (303d)	10 MIN	0.32	0.34	7.61	49.25	53.23	8.30	53.81	58.15	N/A	90°	949.45	949.53	949.55	949.65	8.21	8.97	8.87	9.69	23.0	N/A

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL DRAINAGE AREA MAP

SHEET 1 OF 2

DRAWING No. 53-001

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	563	668

RELEASED FOR CONSTRUCTION 12/02/10

NOTE:
1. THE TOTAL PROJECT AREA IS 134 ACRES AND THE EXPECTED DISTURBED AREA IS 39.2 ACRES.
2. THE RECEIVING WATERS FOR THIS PROJECT IS LITTLE RIVER AND NOONDAY CREEK.
3. THE RUNOFF COEFFICIENT FOR GRASS IS 0.35 AND THE RUNOFF COEFFICIENT FOR PAVEMENT IS 0.95.
4. CONSTRUCTION ACTIVITIES CONSIST OF A BRIDGE WIDENING ON RIDGEWALK PARKWAY, ADDING RAMPS ONTO I-575, PAVEMENT WIDENING, OVERLAY & LEVELING, SHOULDER GRADING, AND DITCH GRADING.

RIP RAP DATA

STRUCT. NO.	STATION	Do (IN)	Q (CFS)	THICKNESS (IN)	Tw	La (FT)	3Do (FT)	d50 (FT)	AREA (SY)
A-7	703+00 L	18	4.02	12	<0.5D	10	4.5	0.77	9
B-0	710+50 L	18	12.7	12	<0.5D	11	4.5	0.79	11
B-12	109+35 R	18	2.29	12	<0.5D	10	4.5	0.17	9
C-7	107+70 L	18	6.58	12	<0.5D	10	4.5	0.56	9
C-13	112+40 L	18	1.44	12	<0.5D	9	4.5	0.22	8
C-15	113+27 R	18	1.75	12	<0.5D	9	4.5	0.22	8
C-17	114+44 L	18	1.21	12	<0.5D	9	4.5	0.20	8
C-19	114+76 R	18	1.00	12	<0.5D	9	4.5	0.24	8
C-2	408+[illegible] L	30	51.3	12	<0.5D	22	7.5	1.56	39
C-3	202+48 L	18	5.62	12	<0.5D	9	4.5	0.40	8
F-0	220+25 L	18	18.2	12	<0.5D	16	4.5	0.40	20

OUTFALL #5
AREA - 20.4 AC
PRE C - 0.48
POST C - 0.57

BEGIN RAMP "D" STA. 700+00.00

STREAM #4 (ESA)

OUTFALL #6
AREA - 1.02 AC
PRE C - 0.61
POST C - 0.67

STREAM #4C (ESA)

STREAM #4B (ESA)

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB ENTRANCE RAMP "D"
STA. 714+14.47

OUTFALL #7
AREA - 17.0 AC
PRE C - 0.40
POST C - 0.46

OUTFALL #8
AREA - 2.84 AC
PRE C - 0.36
POST C - 0.38

BEGIN BRIDGE
STA. 110+15.10

RIDGEWALK PARKWAY
STA. 104+06.32 =
DRIVEWAY 'A'
STA. 12+75.511

LIMIT OF CONSTRUCTION
DRIVEWAY 'A'
STA. 10+00.00

LIMIT OF CONSTRUCTION
RIDGEWALK PKWY
STA. 96+89.10

STREAM #7 (ESA)

STREAM #8 (ESA)

LIMIT OF CONSTRUCTION
RAMP "C"
STA. 515+81.61

STREAM #7 (ESA)

ORANGE BARRIER FENCE

RIDGEWALK PKWY

RAMP "D"

RAMP "C"

I-575 NB

I-575 NS

RAMP "A"

RAMP "B"

LITTLE RIVER

OUTFALL #10
AREA - 23.0 AC
PRE C - 0.44
POST C - 0.48

END PROJECT
STA. 733+50.00
N=1506220.6190
E=2189701.7510

LIMIT OF CONSTRUCTION
RAMP "B"
STA. 427+96.04

LIMIT OF CONSTRUCTION
RELOC. ROPE MILL RD.
STA. 229+31.60

BEGIN RAMP "A"
STA 300+00.00 =

WOODSTOCK PKWY

END BRIDGE
STA. 112+39.40

RELOC. ROPE MILL RD.

ORANGE BARRIER FENCE

OUTFALL #9
AREA - 36.6 AC
PRE C - 0.42
POST C - 0.47

ORANGE BARRIER FENCE

STREAM #5 (ESA)

OUTFALL #12
AREA - 1.31 AC
PRE C - 0.61
POST C - 0.89

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00

RIDGEWALK PARKWAY
STA. 108+54.77 =
SB EXIT RAMP "C"
STA. 500+00.00

OUTFALL #11
AREA - 3.31 AC
PRE C - 0.38
POST C - 0.49

RIDGEWALK PKWY

FREELON LANE
CUL-DE-SAC

RIDGEWALK PARKWAY
STA. 121+22.79=
RELOC. ROPE MILL ROAD
STA. 200+00.00

LIMIT OF CONSTRUCTION
RIDGEWALK PARKWAY
STA. 126+50.00

OUTFALL DATA

NOTE: N/A MEANS THE INITIAL DISCHARGE AT THE OUTFALL POINT WAS IN THE FORM OF SHEET FLOW.

OUT-FALL NO.	STATION	DRAIN AREA (AC)	DISTURB AREA (AC)	RECEIVING WATER	Tc (MIN)	PRE C	POST C	INTENSITY 50 YEAR	PRE Q50 (cfs)	POST Q50 (cfs)	INTENSITY 100 YEAR	PRE Q100 (cfs)	POST Q100 (cfs)	PIPE SIZE (in)	SKEW ANGLE	PRE HW50	PRE HW100	POST HW50	POST HW100	PRE VEL50 (ft/s)	PRE VEL100 (ft/s)	POST VEL50 (ft/s)	POST VEL100 (ft/s)	CHNL SLPE (%)	RIP RAP (sy)
6	705+10 L	1.02	0.65	NOONDAY CREEK	10	0.62	0.69	7.61	3.88	4.27	8.30	4.18	4.60	18	90°	N/A	N/A	N/A	N/A	3.84	3.92	4.01	4.10	10	10
7	713+44 L	17.0	3.41	NOONDAY CREEK	[illegible]	39	0.46	6.59	33.32	37.57	7.21	36.35	41.03	24	90°	974.14	974.48	974.82	975.33	6.89	7.54	8.05	8.80	N/A	N/A
8	719+80 L	2.84	0.98	NOONDAY CREEK	10	0.40	0.53	7.61	8.57	11.50	8.30	9.35	12.54	N/A	90°	N/A	N/A	N/A	N/A	5.71	6.23	7.67	8.36	7.0	N/A
9	219+57 R	36.6	11.8	LITTLE RIVER	30	0.52	0.59	4.81	153.4	153.4	5.28	193.2	193.2	60	90°	889.76	889.76	891.13	891.13	16.71	16.71	17.46	17.46	2.0	N/A
10	426+82 R	23.0	5.80	LITTLE RIVER	20	0.46	0.50	5.85	59.2	61.9	6.40	64.8	67.7	30	24°	925.87	927.05	926.43	927.75	18.73	19.15	18.93	19.37	3.7	11
11	601+85 L	3.31	1.64	LITTLE RIVER	10	0.38	0.43	7.61	10.77	13.28	8.30	11.80	14.44	18	90°	968.25	968.49	968.91	969.31	5.01	5.49	6.41	7.00	N/A	N/A
12	120+94 R	1.31	1.27	LITTLE RIVER	10	0.61	0.88	7.61	4.54	5.76	8.30	4.97	6.17	18	0°	N/A	N/A	N/A	N/A	10.26	10.52	10.97	11.18	N/A	N/A

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

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 200 400 800

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL DRAINAGE AREA MAP

SHEET 2 OF 2

DRAWING No. 53-002

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

INITIAL PHASE INSTALLATION NOTE:

THE INITIAL BMP INSTALLATION AS SHOWN INCLUDES ALL PERIMETER SILT FENCE CONTROLS. THIS SILT FENCE SHALL BE INSTALLED CONCURRENT WITH THE CLEARING AND GRUBBING OPERATIONS.

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

INTERMITTENT STREAM #1A

ORANGE BARRIER FENCE

EXIST. R/W & L/A

NOTE

1. 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 TYPICAL 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.

BEGIN PROJECT
CSNHS-0006-00(043)
I-575 STA. 596+00.00
N=1493712.7222
E=2185922.7331

I-575 S.B.

I-575 N.B.

596+00 597+00 598+00 599+00 600+00

CONST. ℄ I-575

N 22°57'06" W

MATCH LINE STA. 601+00

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

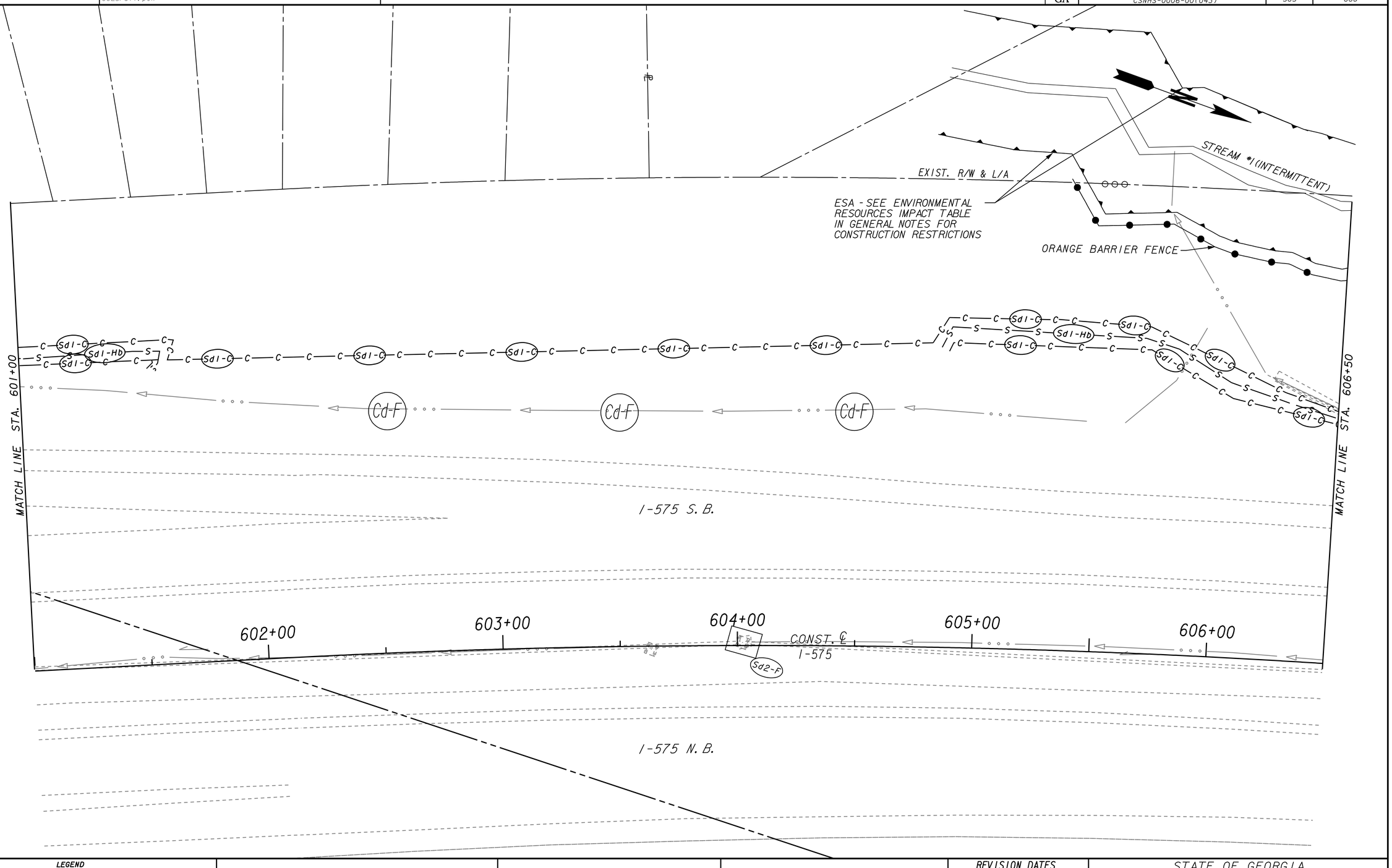
BMP LOCATION DETAILS

INITIAL PH.
I-575 SB AUXILIARY LANE
BEGIN PROJECT TO STA. 601+00

DRAWING No. 54-001

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

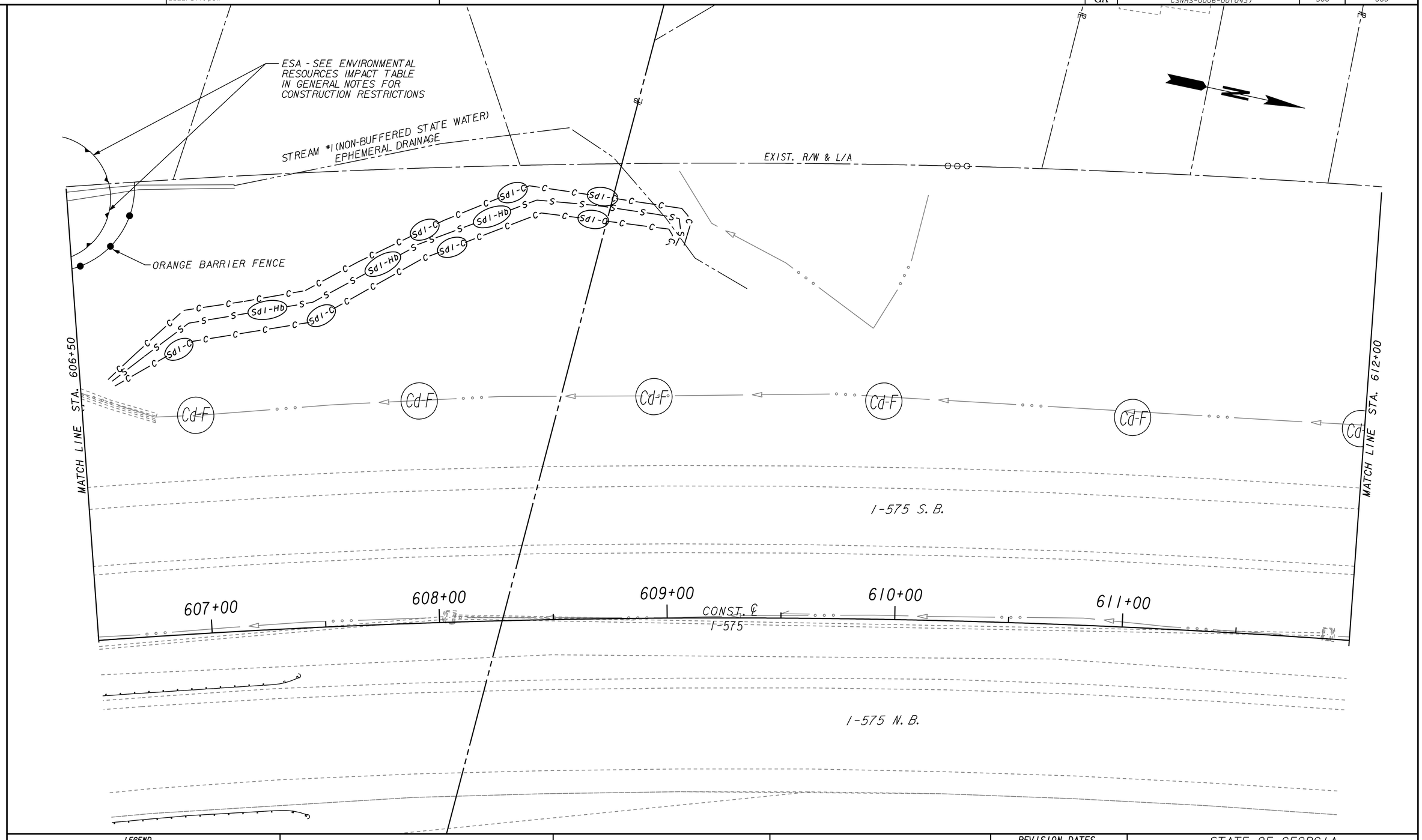
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 601+00 TO STA. 606+50

DRAWING No. 54-002

1/5/2009 GPLN

23-DEC-2010 11:24 JParks	TIME$$$ 006043ER03-0 8825Full.pen	R:\07400004\006043\DGN\006043ER03-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	566	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

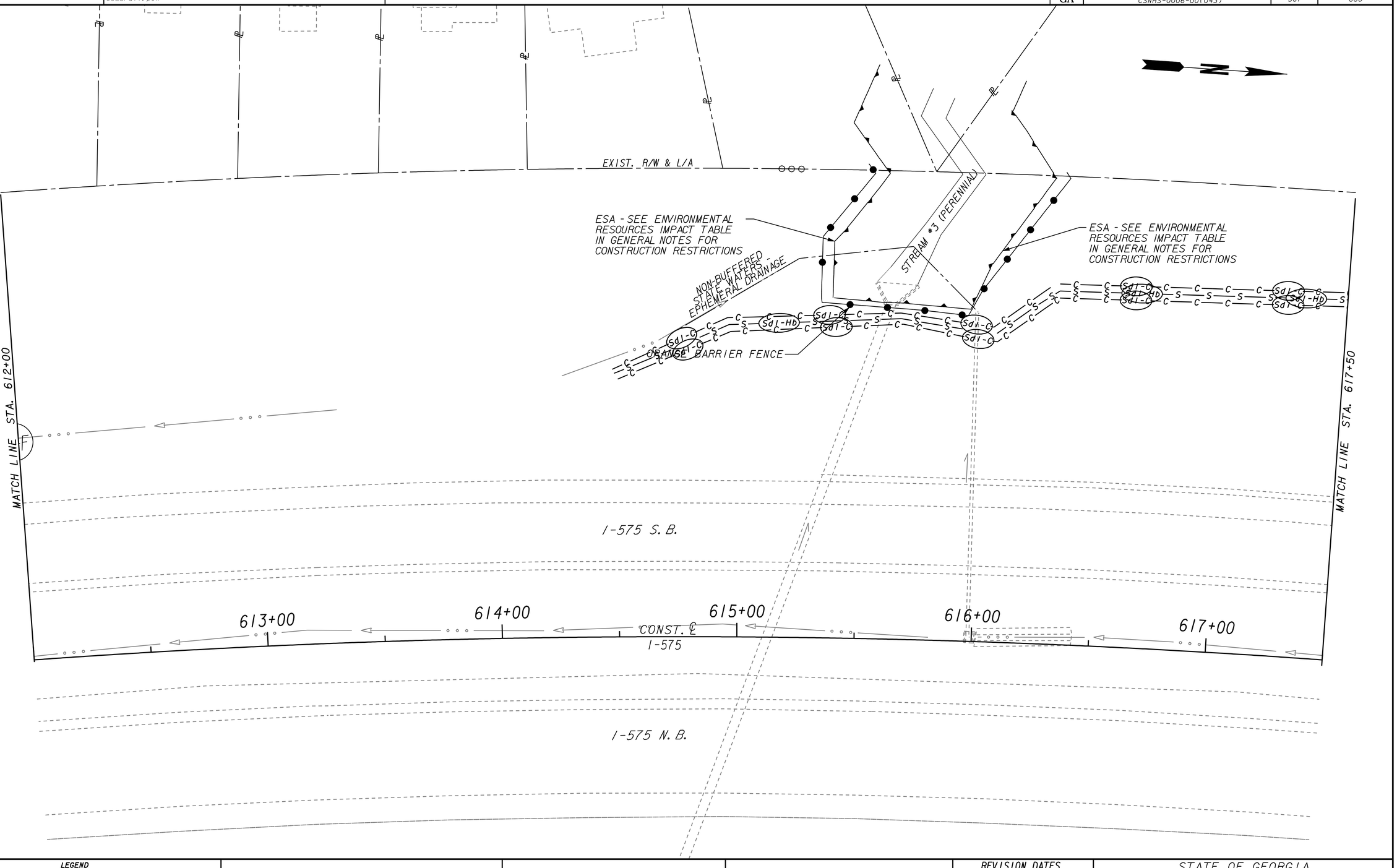
BMP LOCATION DETAILS

INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 606+50 TO STA. 612+50

DRAWING No. 54-003

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

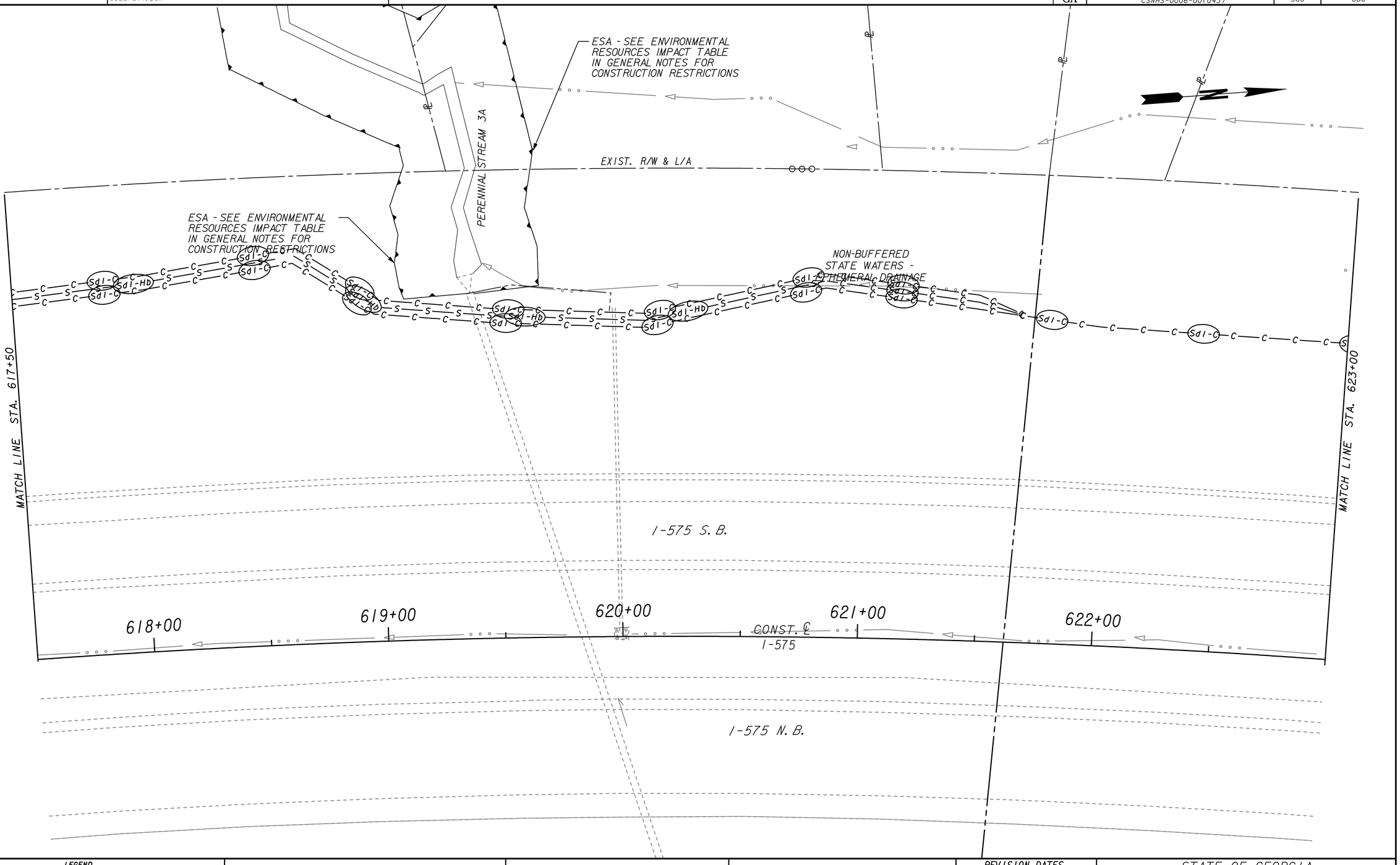
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 612+00 TO STA. 617+50

DRAWING No. 54-004

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	568	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

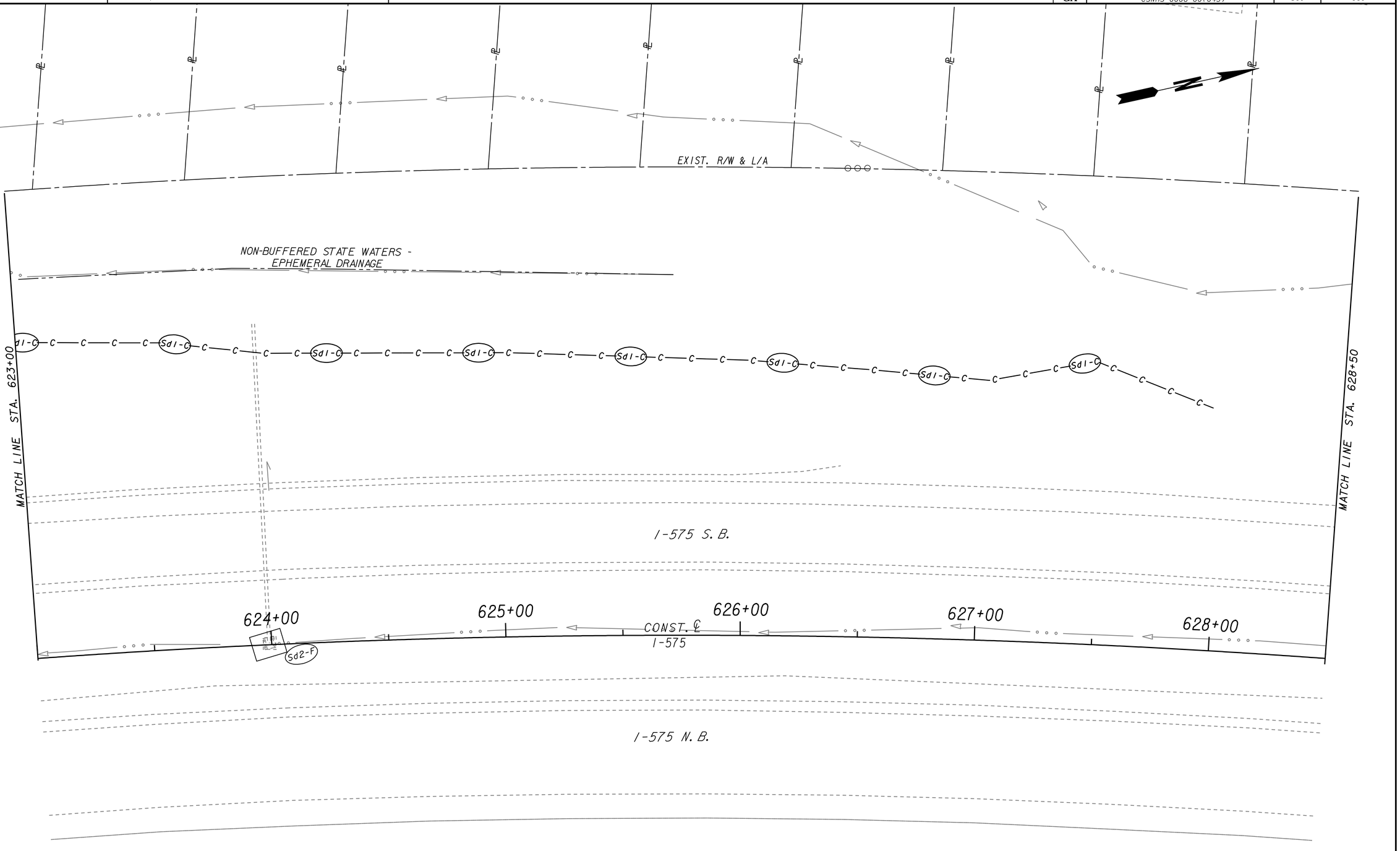
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 617+50 TO STA. 623+00

DRAWING No. 54-005

1/5/2009 GPLN

23-DEC-2010 11:25 JParks	TIME$$$ 006043ER06-0 8825Full.pen	R:\07400004\006043\DGN\006043ER06-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	569	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

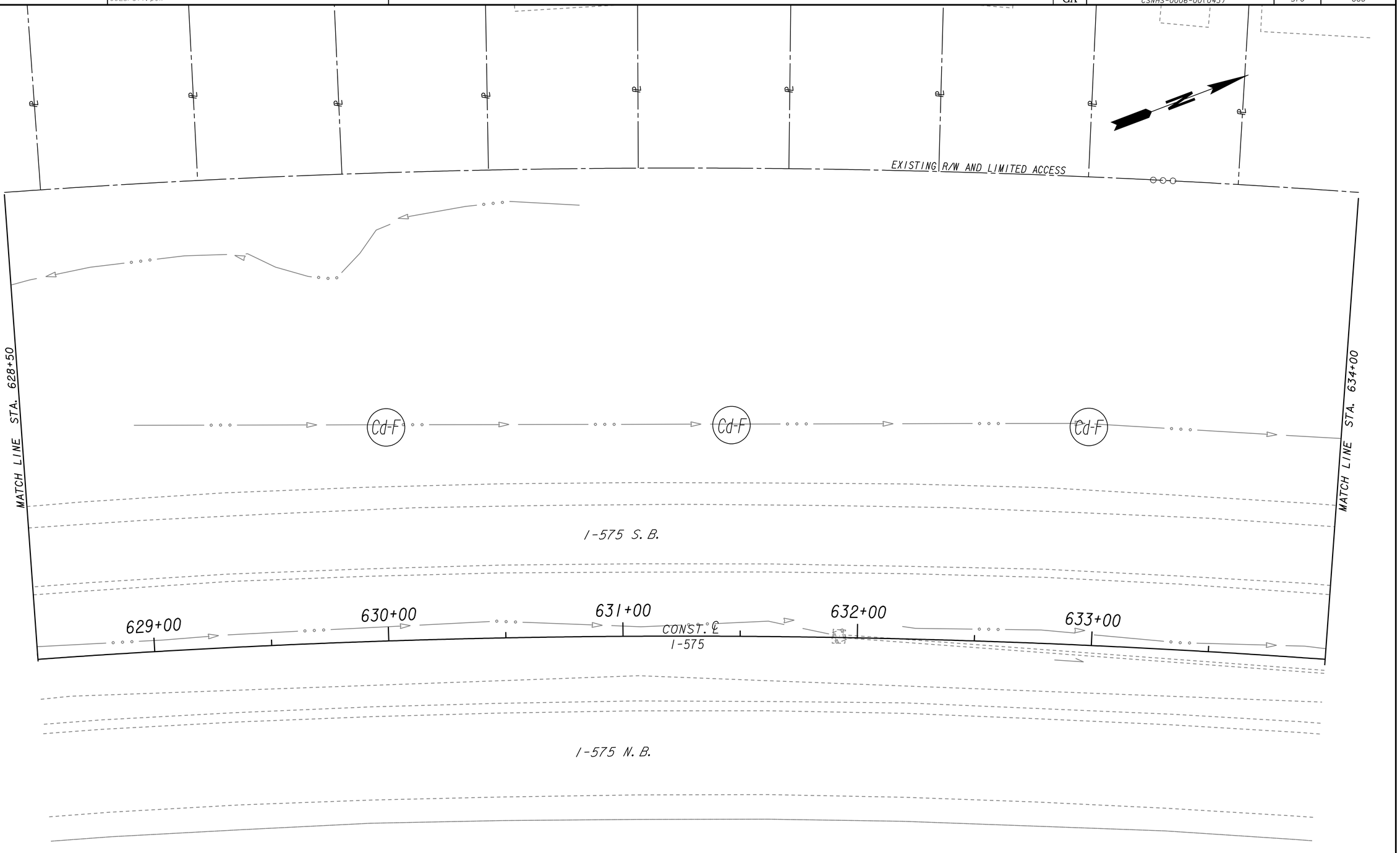
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 623+00 TO STA. 628+50

DRAWING No. 54-006

1/5/2009 GPLN

23-DEC-2010 11:25 JParks	TIME$$$ 006043ER07-0 8825Full.pen	R:\07400004\006043\DGN\006043ER07-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	570	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 628+50 TO STA. 634+00

DRAWING No. 54-007

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

MATCH LINE STA. 634+00

MATCH LINE STA. 639+50

Cd-F

Sdl-A

A

I-575 S.B.

635+00

636+00

637+00

638+00

639+00

CONST. ℄ I-575

I-575 N.B.

LL 927

LL 874

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- OPEN LANES OF TRAFFIC

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

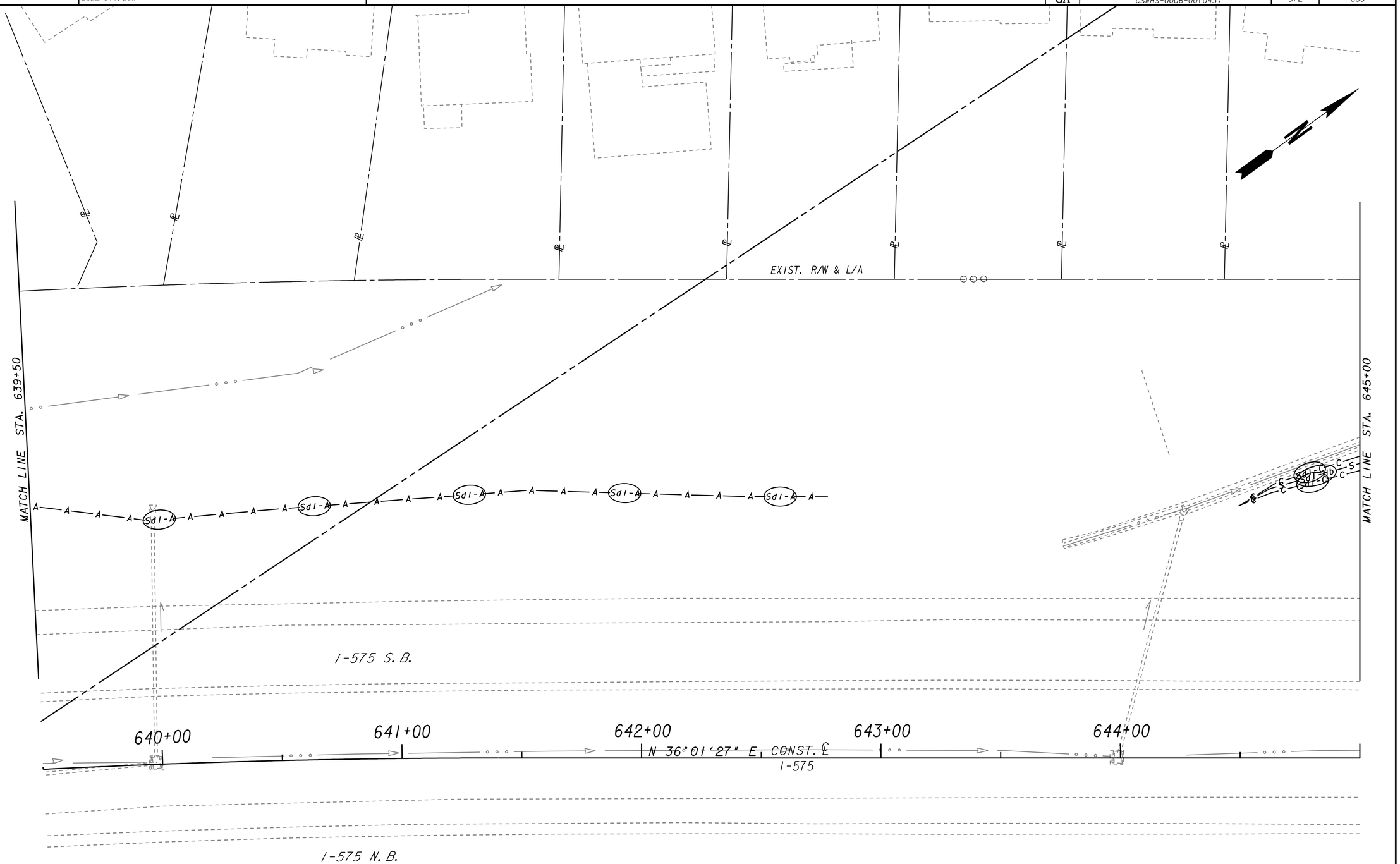
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 54-008

1/5/2009 GPLN

23-DEC-2010 11:25 JParks	TIME$$$ 006043ER09-0 8825Full.pen	R:\07400004\006043\DGN\006043ER09-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	572	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
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- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

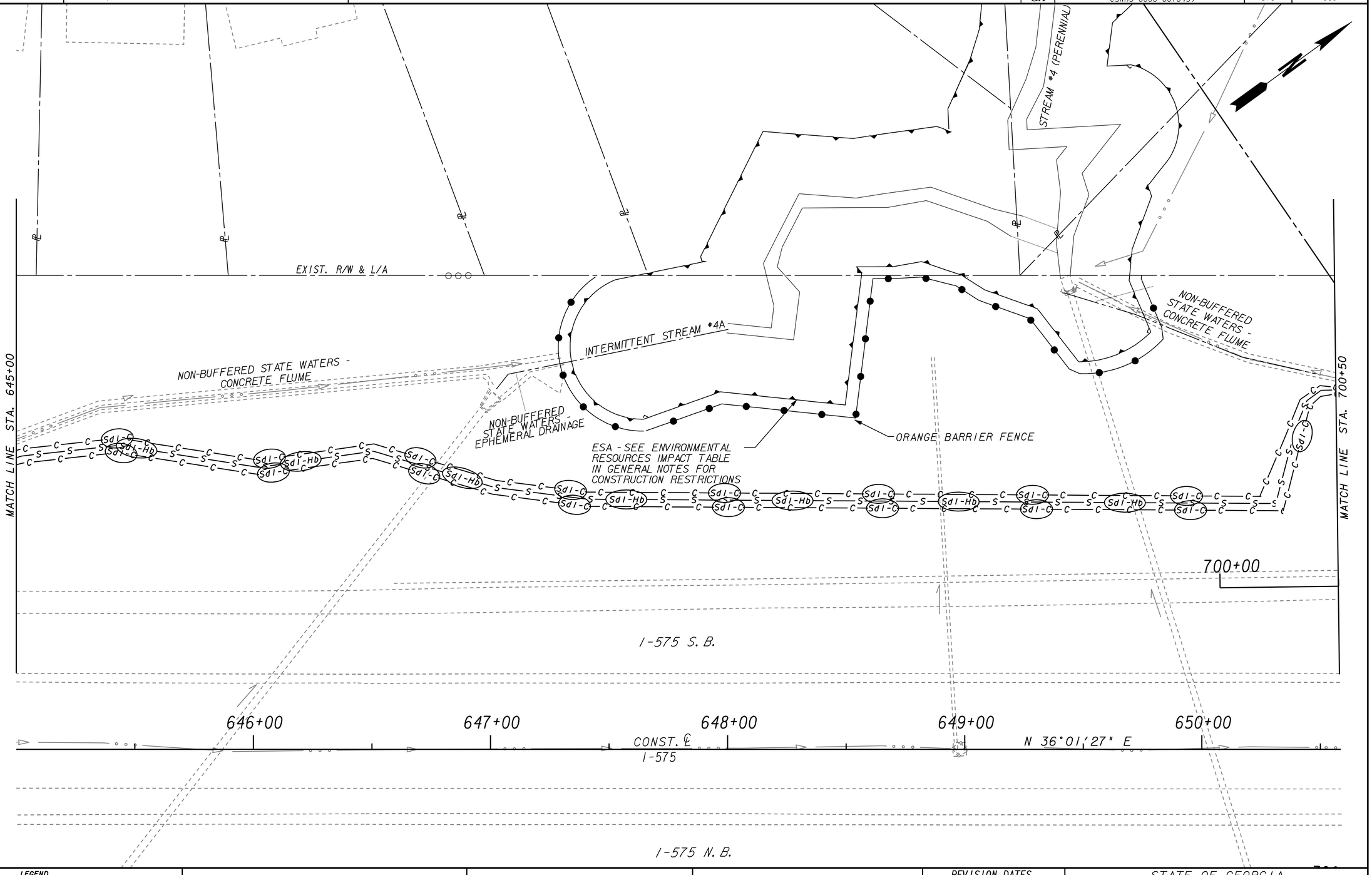
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 639+50 TO STA. 645+00

DRAWING No. 54-009

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	573	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

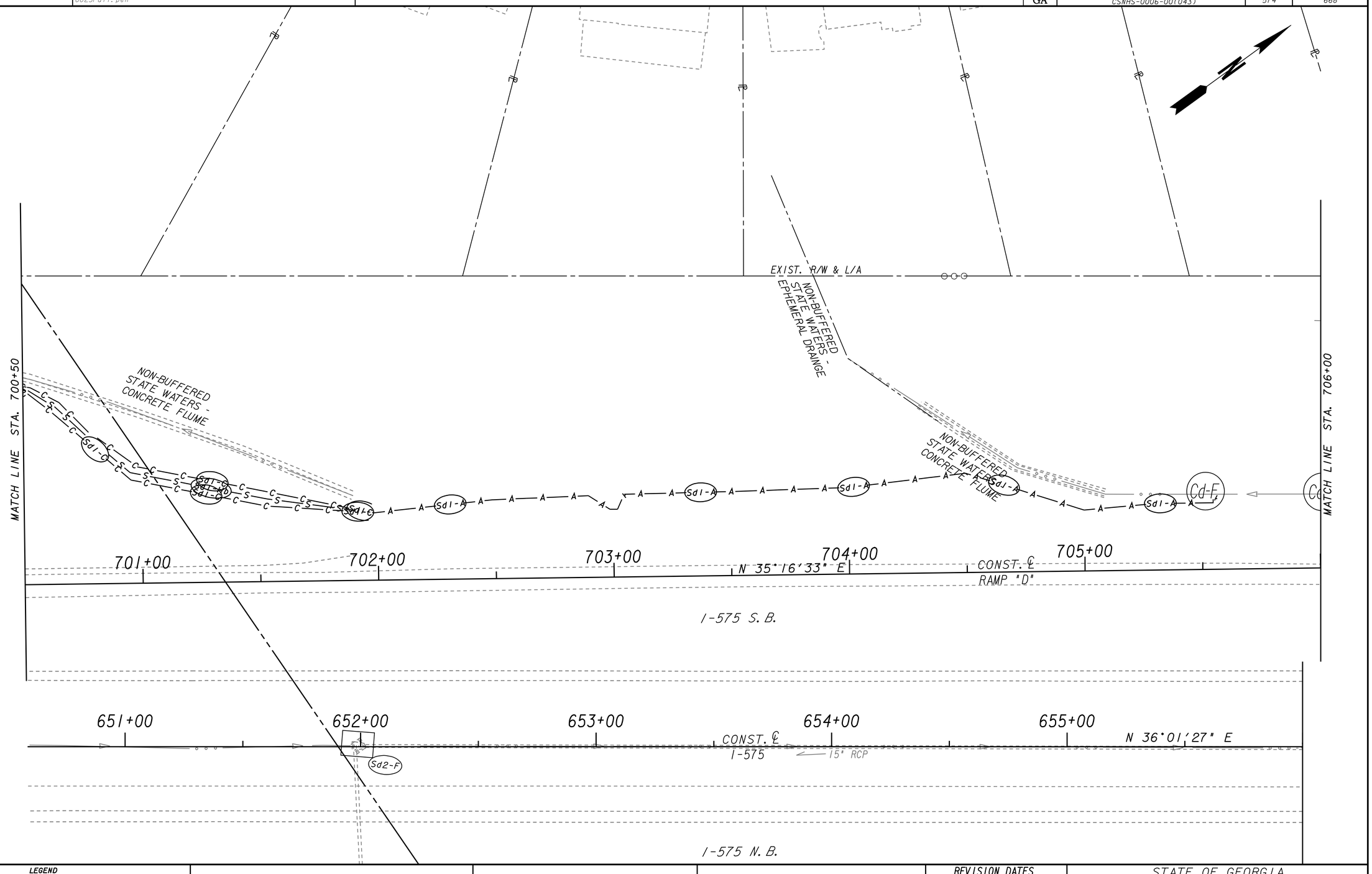
INITIAL PH.
I-575 SB AUXILIARY LANE
STA. 645+00 TO STA. 650+50

DRAWING No. 54-010

1/5/2009 GPLN

23-DEC-2010 11:25 JParks	TIME$$$ 006043ER11-0 8825Full.pen	R:\07400004\006043\DGN\006043ER11-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	574	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

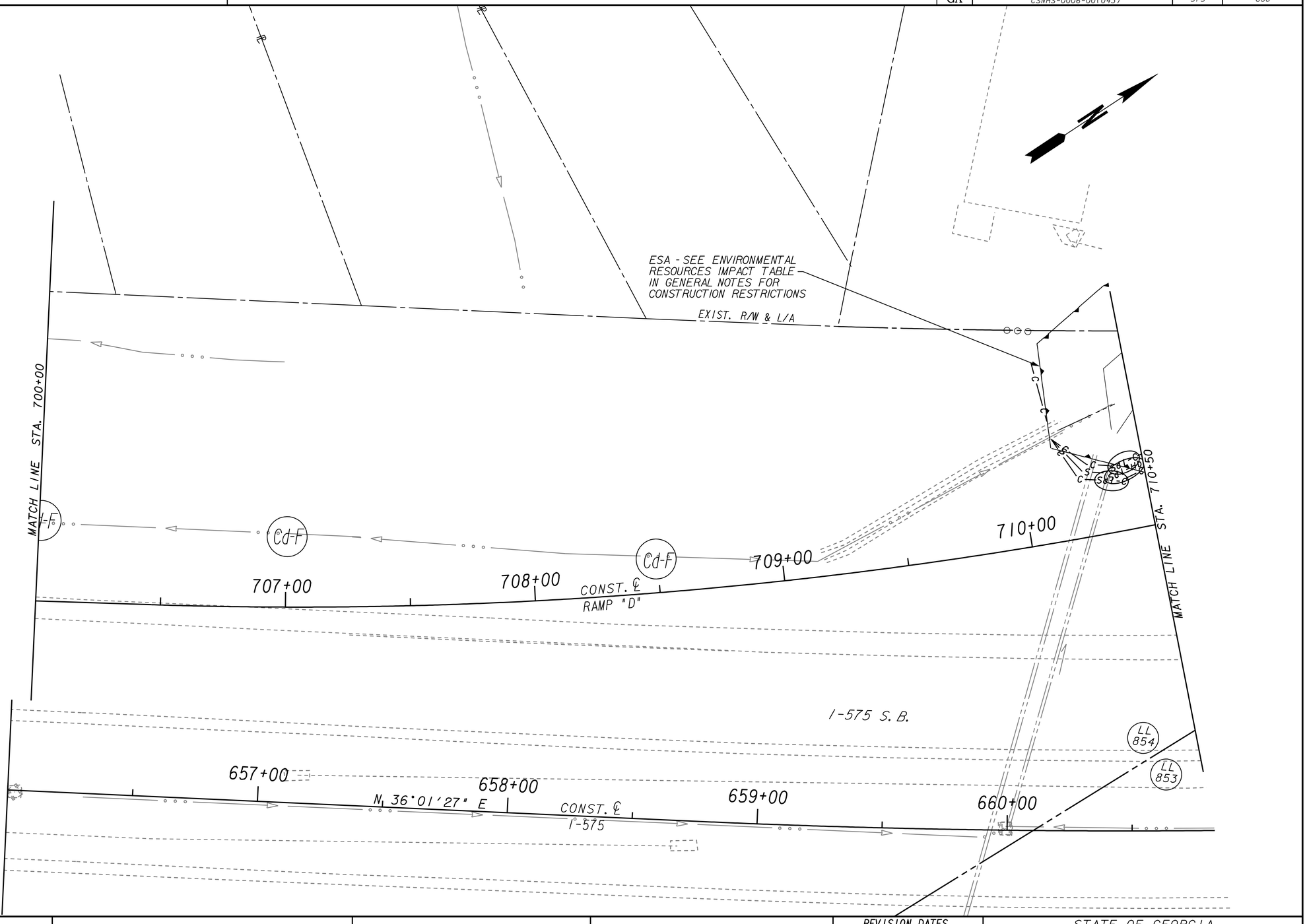
INITIAL PH.
I-575 STA. 650+50 TO
SB ENTR. RAMP D STA. 700+00

DRAWING No. 54-011

1/5/2009 GPLN

23-DEC-2010 11:25 JParks	TIME$$$ 006043ER12-0 8825Full.pen	R:\07400004\006043\DGN\006043ER12-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	575	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.
I-575 SB ENTRANCE RAMP D
STA. 700+00 TO STA. 704+50

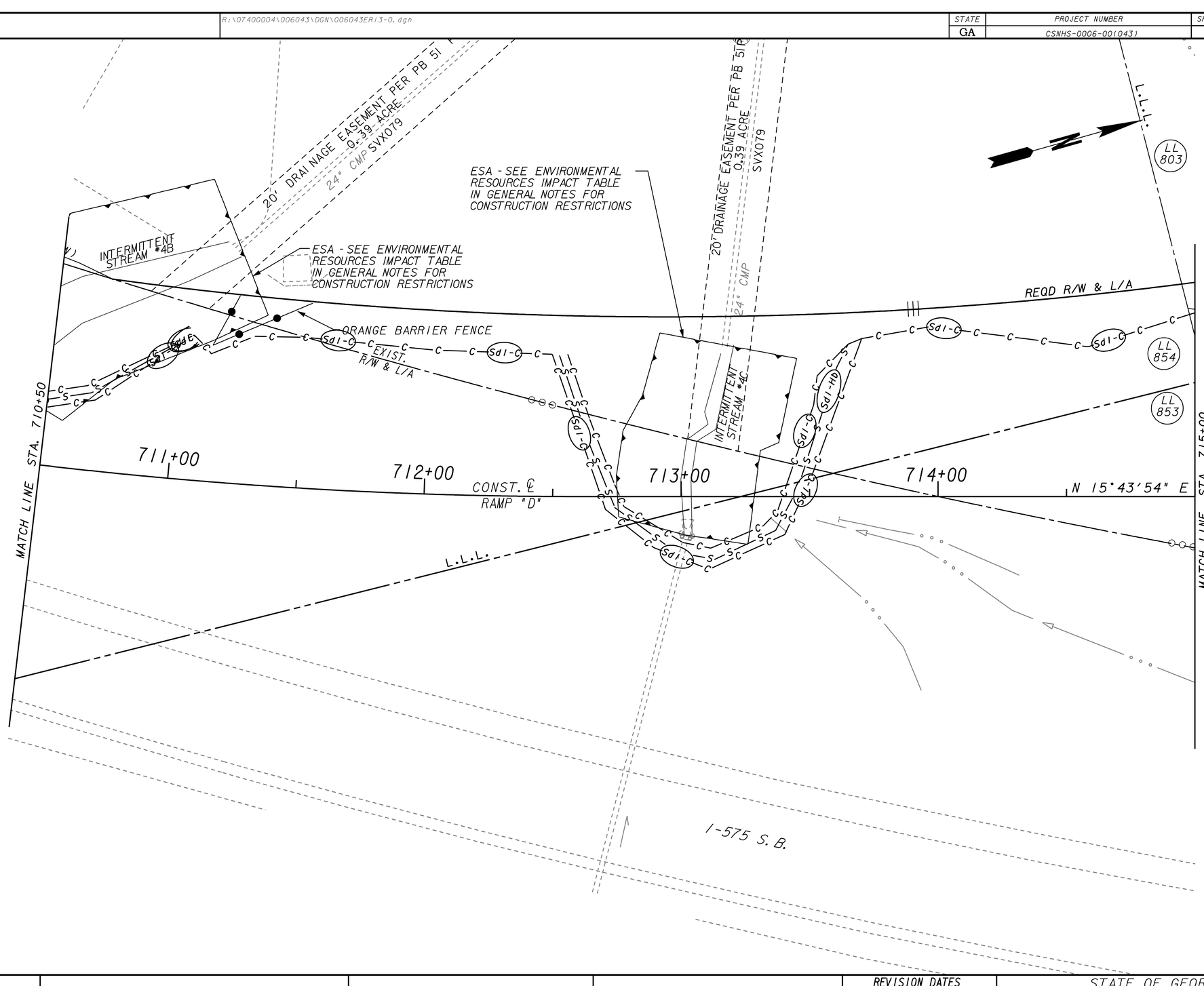
DRAWING No. 54-012

1/5/2009 GPLN

23-DEC-2010 11:26	TIME$$	006043ER13-0	R:\07400004\006043\DGN\006043ER13-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	576	668

RELEASED FOR CONSTRUCTION 12/02/10

1/5/2009 GPLN



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		
12/20/10		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

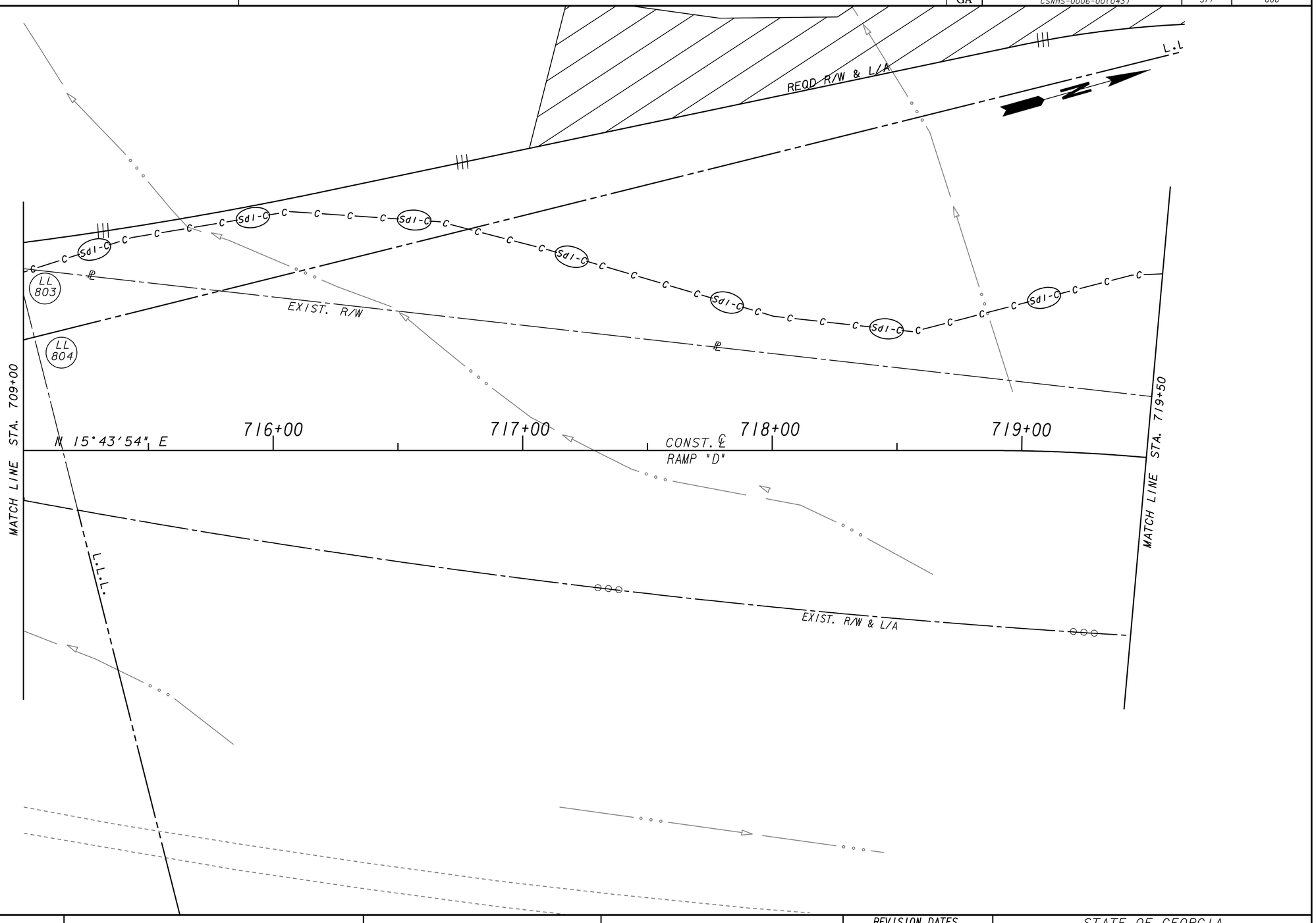
INITIAL PH.

I-575 SB ENTRANCE RAMP D
STA. 704+50 TO STA. 709+00

DRAWING No. 54-013

23-DEC-2010 11:26	TIME$$$	006043ER14-0	R:\07400004\006043\DGN\006043ER14-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	577	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

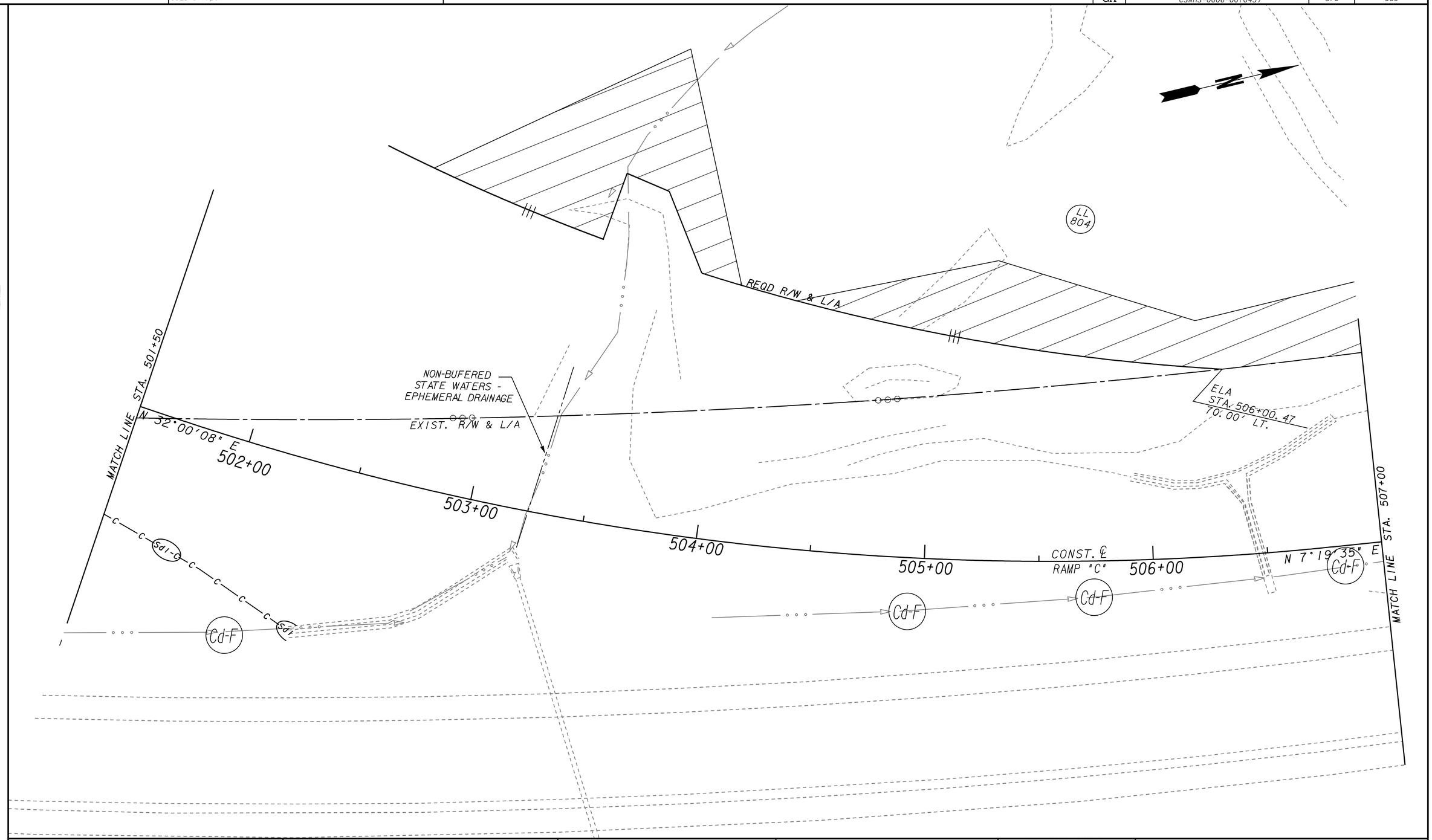
INITIAL PH.
I-575 SB ENTRANCE RAMP D
STA. 709+00 TO STA. 713+50

DRAWING No. 54-014

1/5/2009 GPLN

23-DEC-2010 11:26 JParks	TIME$$$ 006043ER15-0 8825Full.pen	R:\07400004\006043\DGN\006043ER15-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	578	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

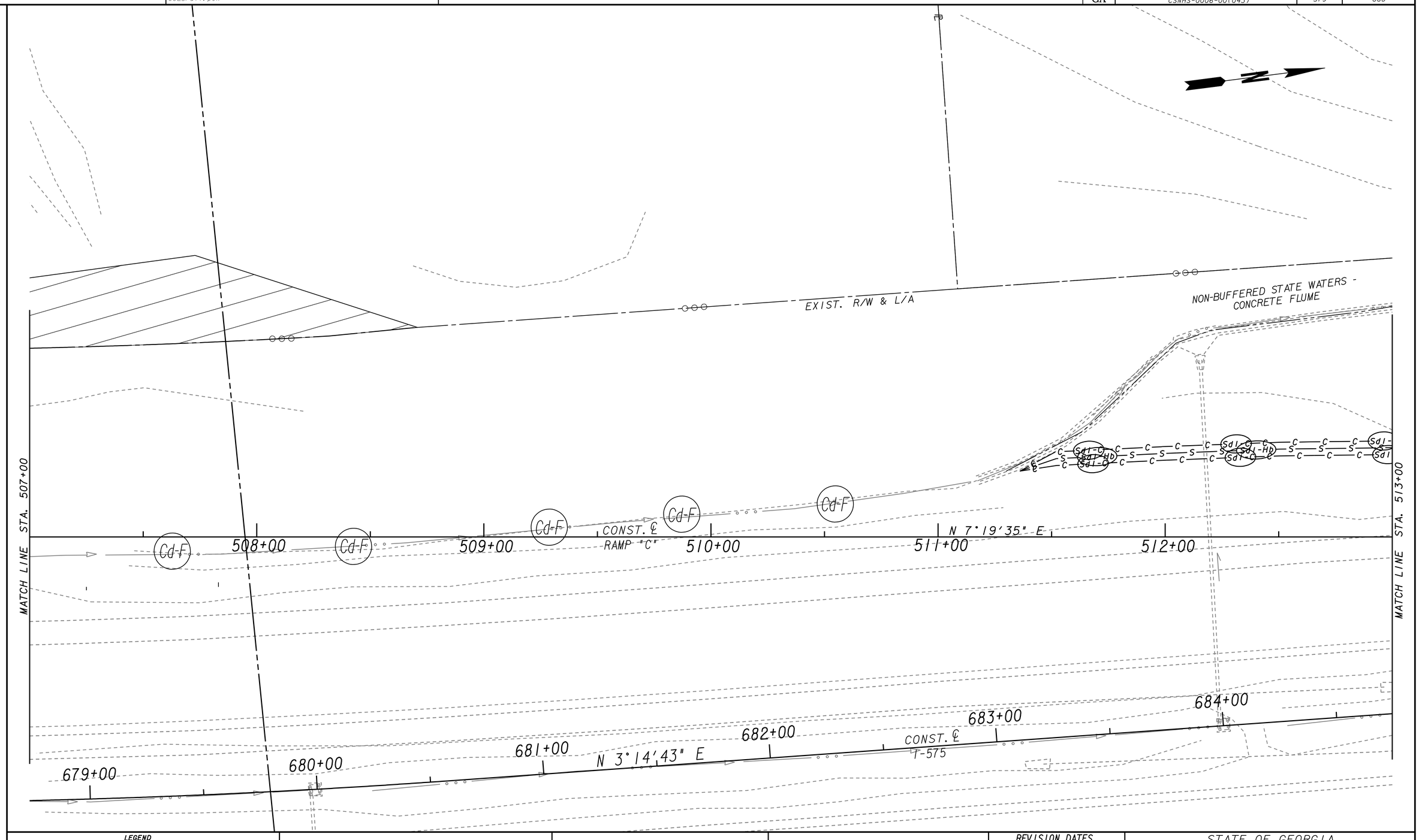
I-575 SB EXIT RAMP C
STA. 501+50 TO STA. 507+00

DRAWING No. 54-015

1/5/2009 GPLN

23-DEC-2010 11:26 JParks	TIME$$ 006043ER16-0 8825Full.pen	R:\07400004\006043\DGN\006043ER16-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	579	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.
I-575 SB EXIT RAMP C
STA. 507+00 TO STA. 513+00

DRAWING No. 54-016

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

INTERMITTENT STREAM #7

EXIST. R/W & L/A

NON-BUFFERED STATE WATERS - CONCRETE FLUME

ORANGE BARRIER FENCE

END RAMP "C"
STA. 516+03.74

MATCH LINE STA. 513+00

N 7°19'35" E

514+00

CONST. ℄ RAMP "C"

515+00

516+00

I-575 S.B.

685+00

686+00

687+00

688+00

CONST. ℄ I-575

N 3°14'43" E

689+00

690+00

I-575 N.B.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

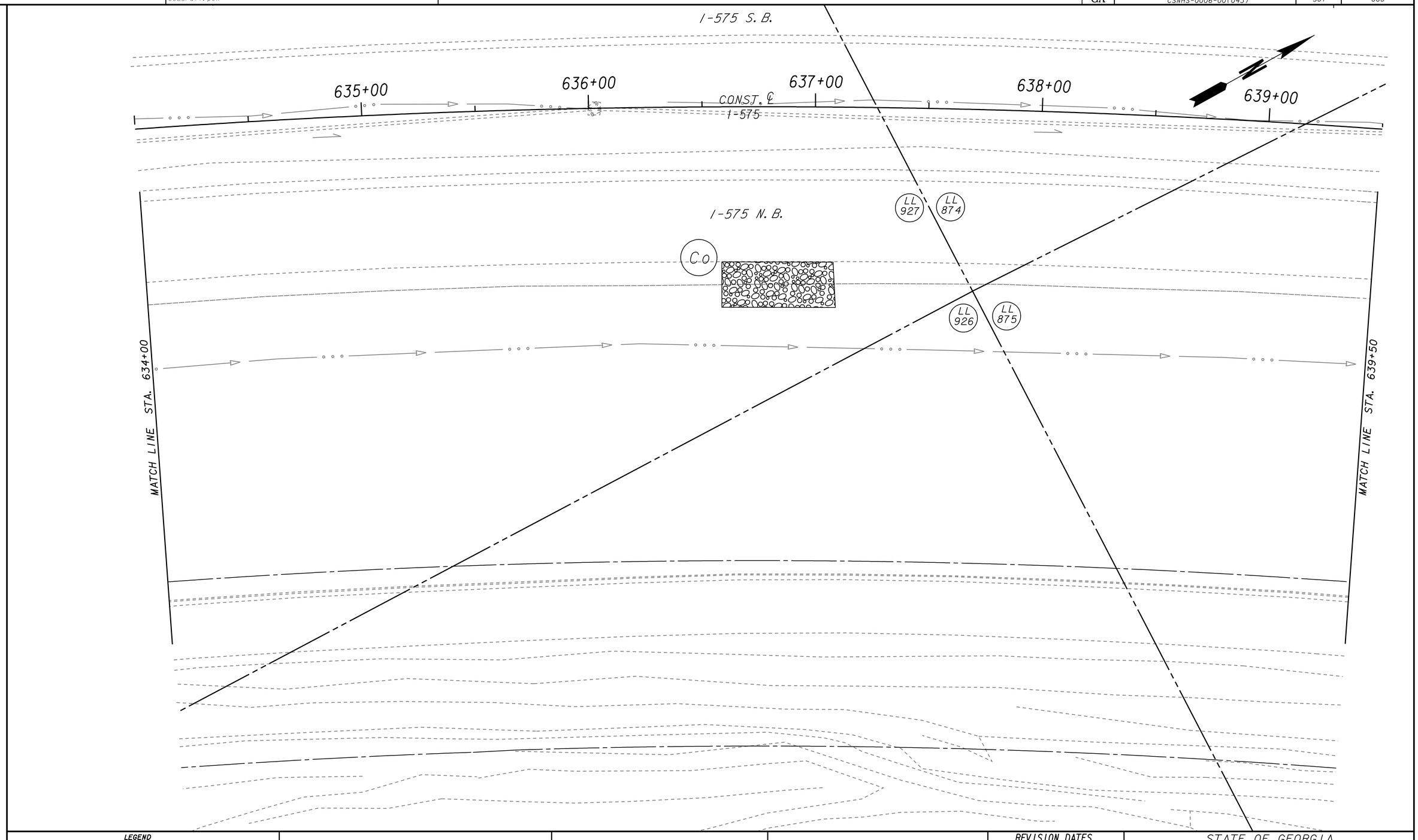
I-575 SB EXIT RAMP C
STA. 513+00 TO END CONST.

DRAWING No. 54-017

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	581	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
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0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

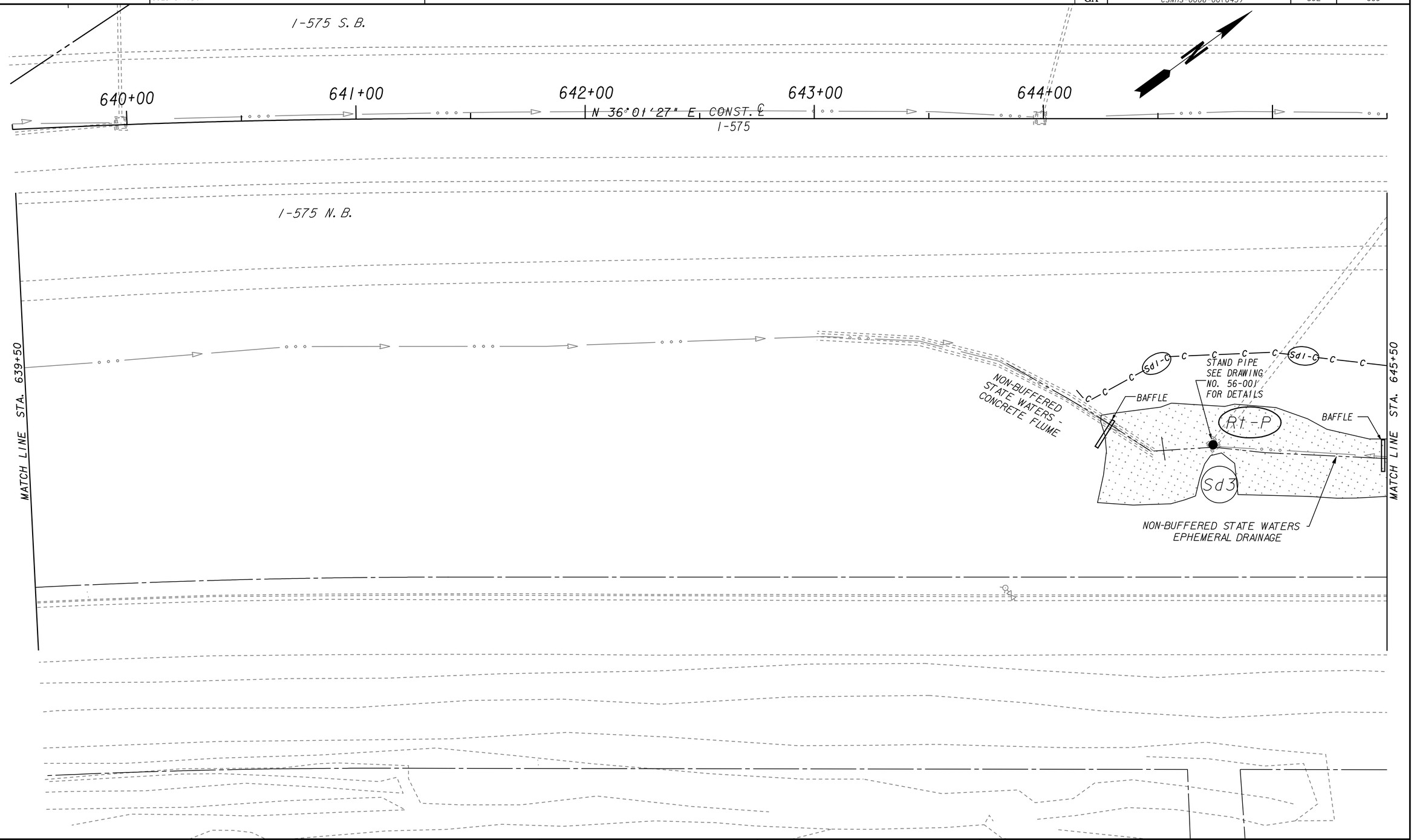
INITIAL PH.
I-575 NB AUXILIARY LANE
BEGIN CONSTR. TO STA. 639+50

DRAWING No. 54-018

1/5/2009 GPLN

23-DEC-2010 11:27 JParks	TIME*** 006043ER19-0 8825Full.pen	R:\07400004\006043\DGN\006043ER19-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	582	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

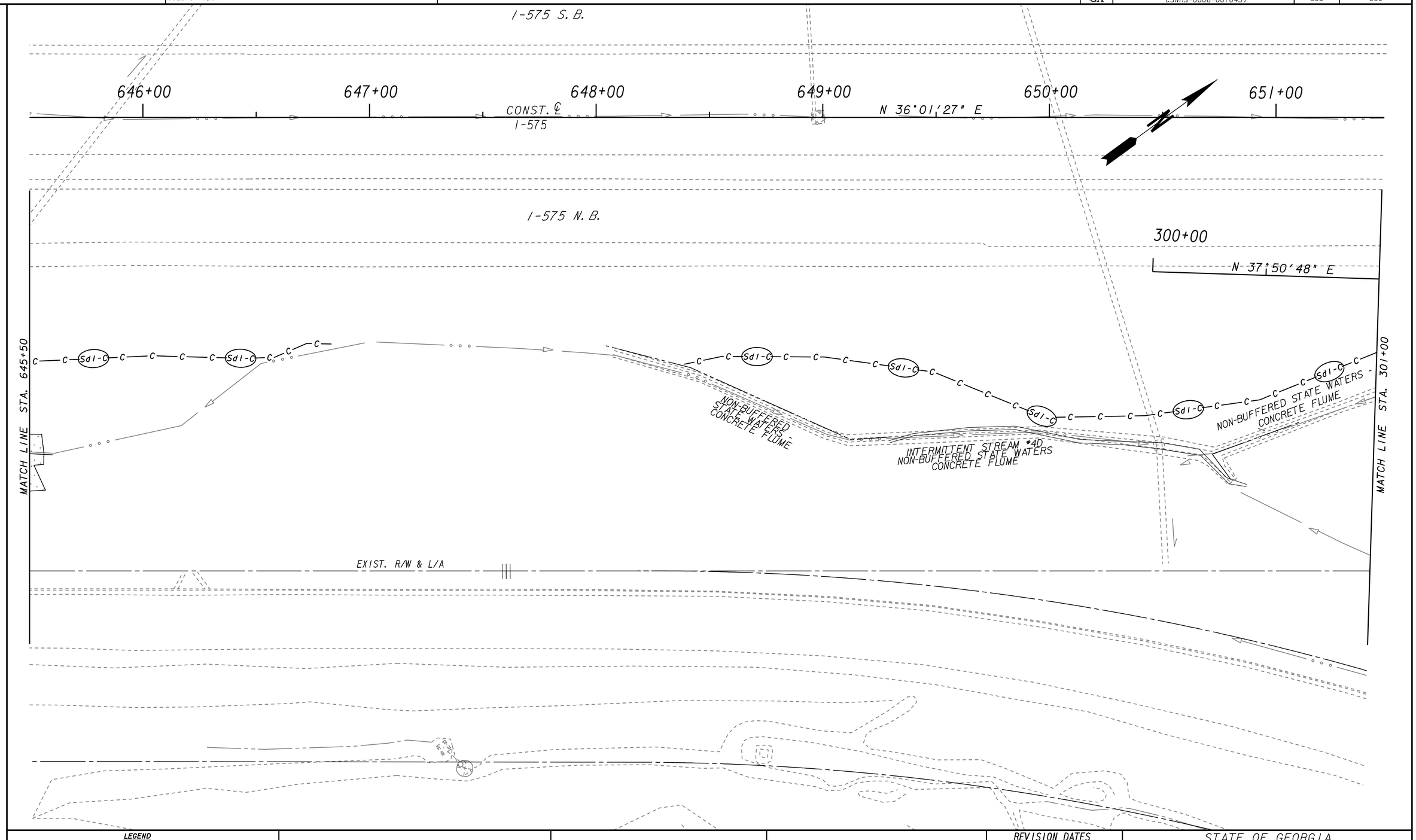
I-575 NB AUXILIARY LANE
STA. 639+50 TO STA. 645+50

DRAWING No. 54-019

1/5/2009 GPLN

23-DEC-2010 11:27 JParks	TIME\$\$\$ 006043ER20-0 8825Full.pen	R:\07400004\006043\DGN\006043ER20-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	583	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
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- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

I-575 NB AUXILIARY LANE
STA. 645+50 TO STA. 651+50

DRAWING No. 54-020

1/5/2009 GPLN

23-DEC-2010 11:27 JParks	TIME$$$ 006043ER21-0 8825Full.pen	R:\07400004\006043\DGN\006043ER21-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	584	668

RELEASED FOR CONSTRUCTION 12/02/10

652+00 653+00 654+00 655+00 657+00

CONST. ℄ I-575

15" RCP

N 36°01'27" E

Sd2-F

I-575 N.B.

302+00 303+00 304+00 305+00 306+00

N 37°50'48" E

CONST. ℄ RAMP "A"

N 36°01'27" E

Sd1-C

Cd-F Cd-F

MATCH LINE STA. 651+50

MATCH LINE STA. 307+00

Dl LL 854

Dl

LL 853

EXIST. R/W & L/A

LL 875

LL 854

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

I-575 NB AUXILIARY LANE
STA. 651+50 TO STA. 657+50

DRAWING No. 54-021

1/5/2009 GPLN

23-DEC-2010 11:27 JParks	TIME$$$ 006043ER22-0 8825Full.pen	R:\07400004\006043\DGN\006043ER22-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	585	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S. B.

I-575 N. B.

L.L.L.

MATCH LINE STA. 307+00

MATCH LINE STA. 313+00

658+00 659+00 660+00 661+00 662+00 663+00

N 36°01'27" E

CONST. ℄ I-575

308+00 309+00 310+00 311+00 312+00

N 36°01'27" E

CONST. ℄ RAMP "A"

N 44°14'14" E

LL 854

LL 853

Cd-F

Sd1-C

RETROFIT TO BE SLOTTED BOARD TYPE, HEIGHT = 4FT

Rt-B

BAFFLE

D1

Sd3

NON-BUFFERED STATE WATERS

BAFFLE

EXIST. R/W & L/A

℄

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

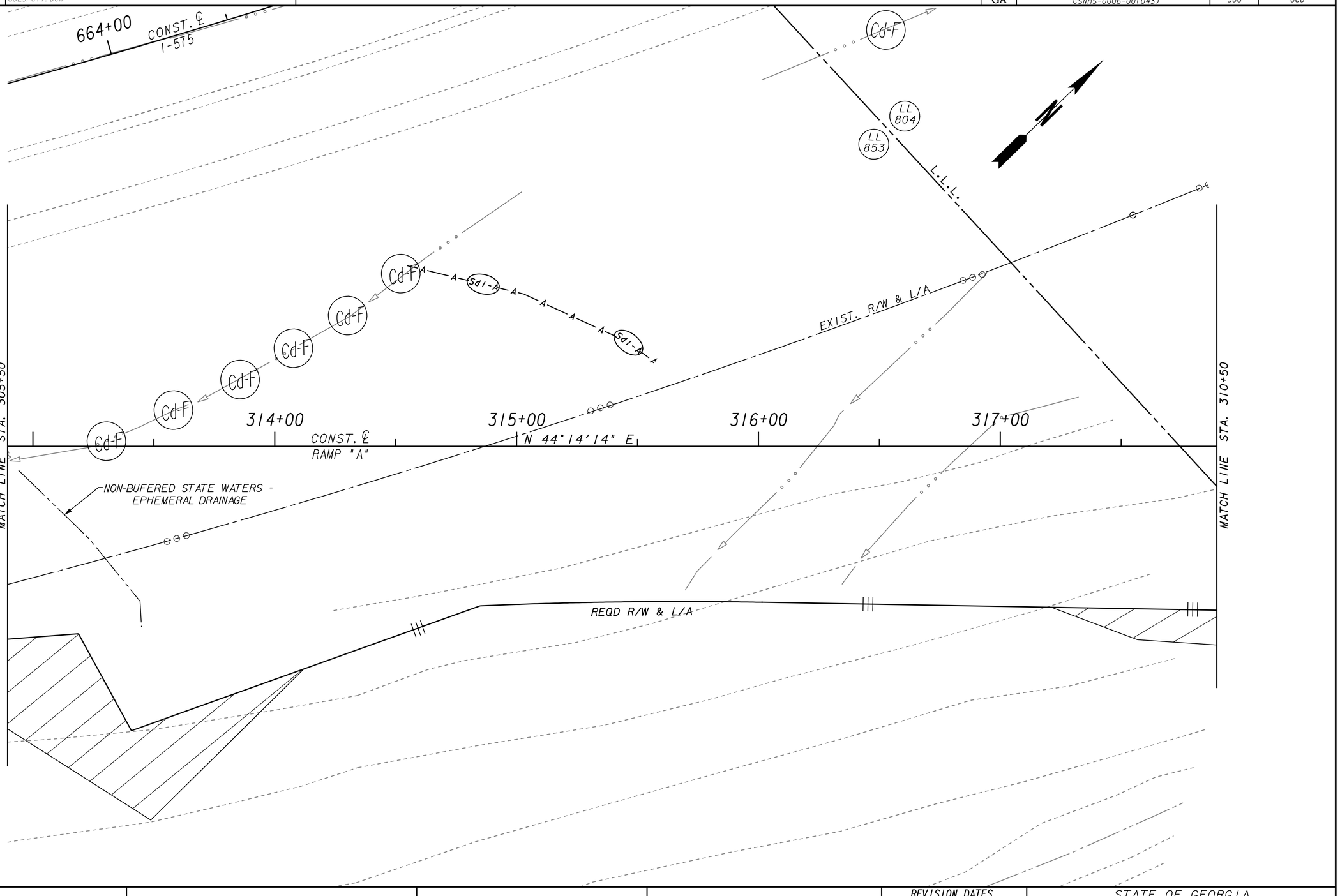
I-575 STA. 657+50 TO NB EXIT RAMP A STA. 305+50

DRAWING No. 54-022

1/5/2009 GPLN

23-DEC-2010 11:27 JParks	TIME$$$ 006043ER23-0 8825Full.pen	R:\07400004\006043\DGN\006043ER23-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	586	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

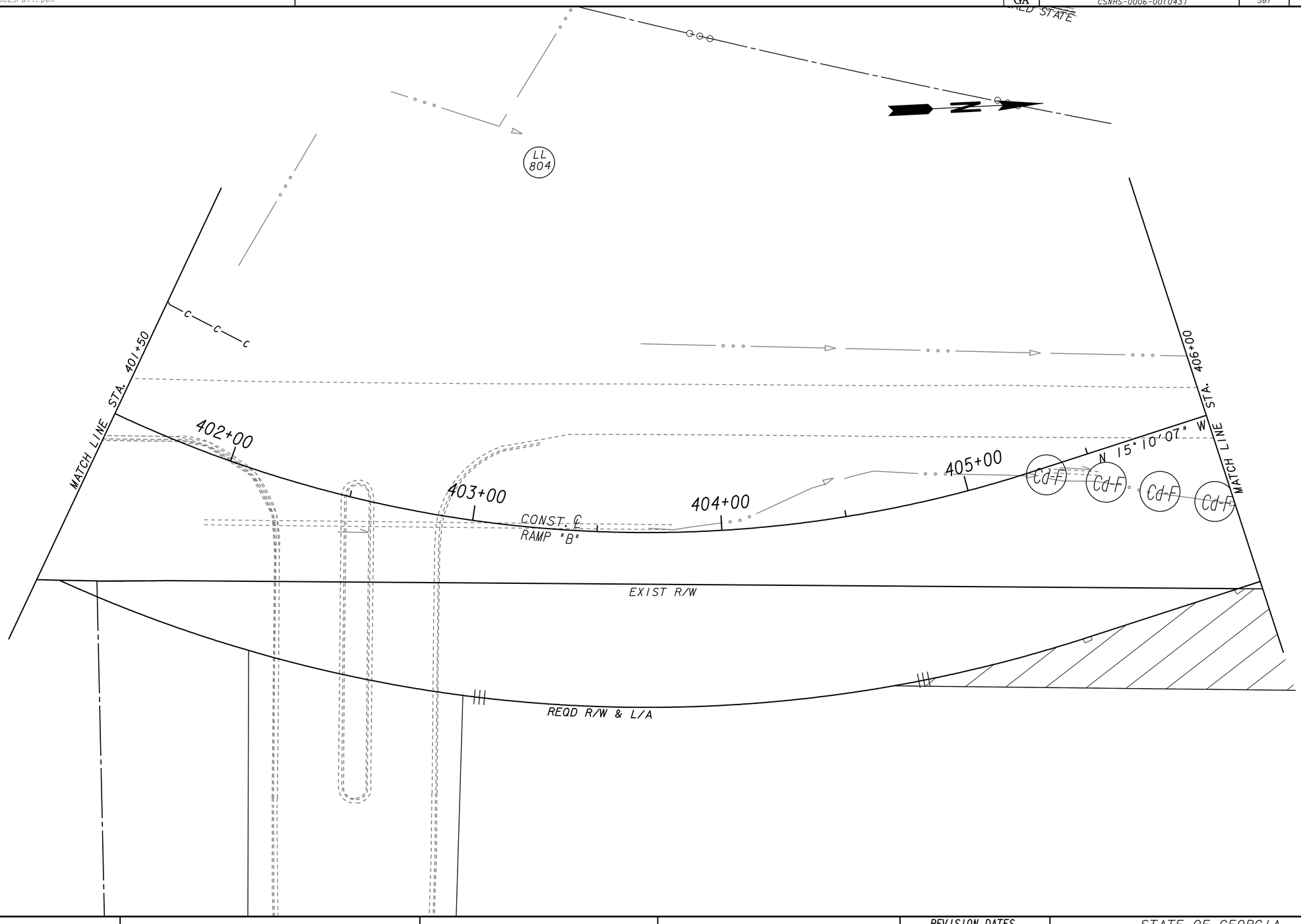
I-575 NB EXIT RAMP A
STA. 305+50 TO STA. 310+50

DRAWING No. 54-023

1/5/2009 GPLN

23-DEC-2010 11:27 JParks	TIME$$$ 006043ER24-0 8825Full.pen	R:\07400004\006043\DGN\006043ER24-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	587	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

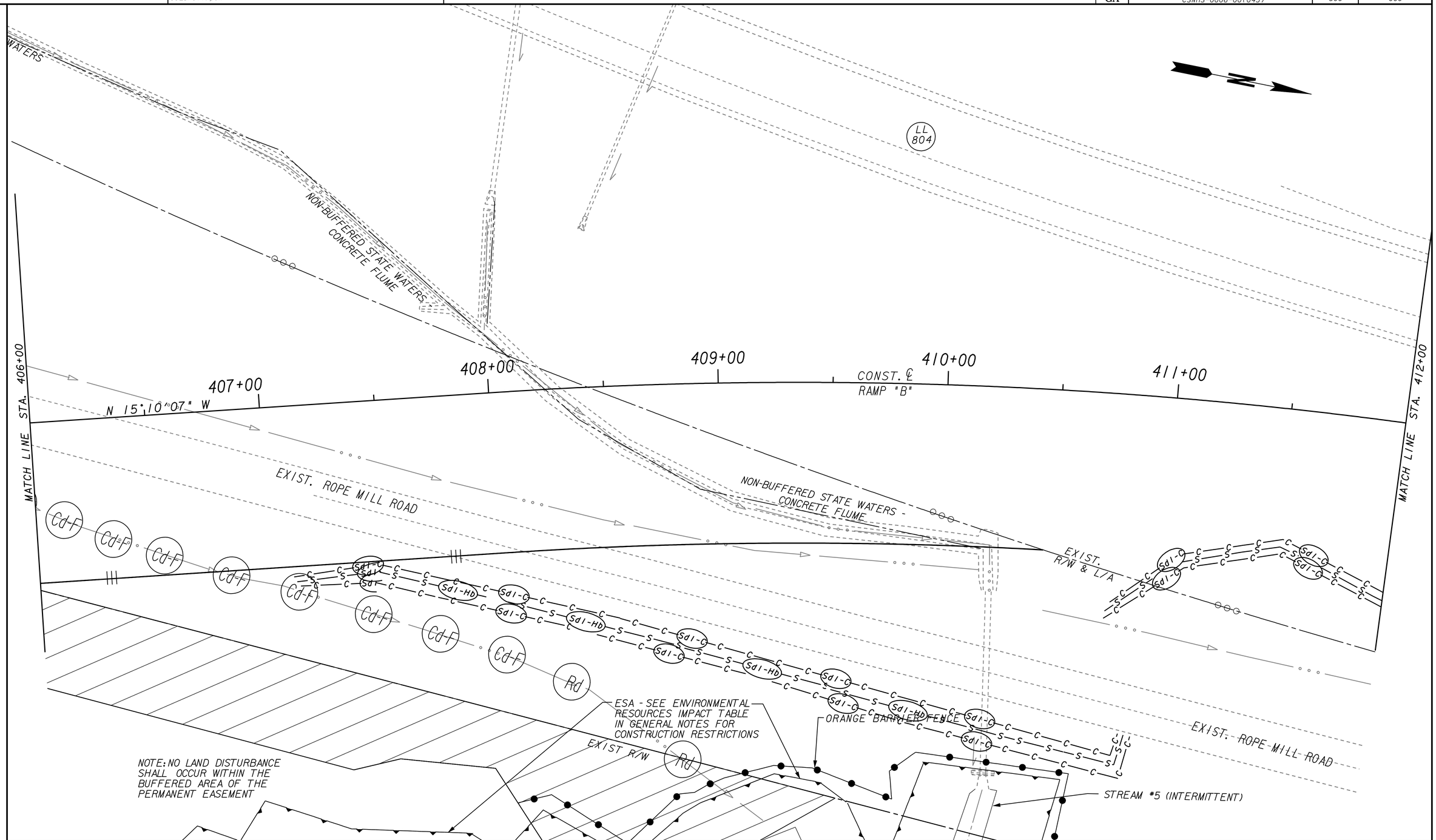
I-575 NB ENTRANCE RAMP B
STA. 401+50 TO STA. 406+00

DRAWING No. 54-024

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	588	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.
I-575 NB ENTRANCE RAMP B
STA. 406+00 TO STA. 412+00

DRAWING No. 54-025

1/5/2009 GPLN

23-DEC-2010 11:28 JParks	TIME$$$ 006043ER26-0 8825Full.pen	R:\07400004\006043\DGN\006043ER26-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	589	668

RELEASED FOR CONSTRUCTION 12/02/10

680+00 681+00 682+00 683+00 684+00 685+00

N 3°14'43" E

CONST. ℄ I-575

I-575 N.B.

MATCH LINE STA. 412+00

413+00 414+00 415+00 416+00 417+00

N 2°00'09" E

CONST. ℄ RAMP "B"

MATCH LINE STA. 418+00

Cd-F Cd-F

REAL-BUFFERED STATE WATERS - EPHEMERAL DRAINAGE

WETLAND F

EXIST. ROPE MILL ROAD

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

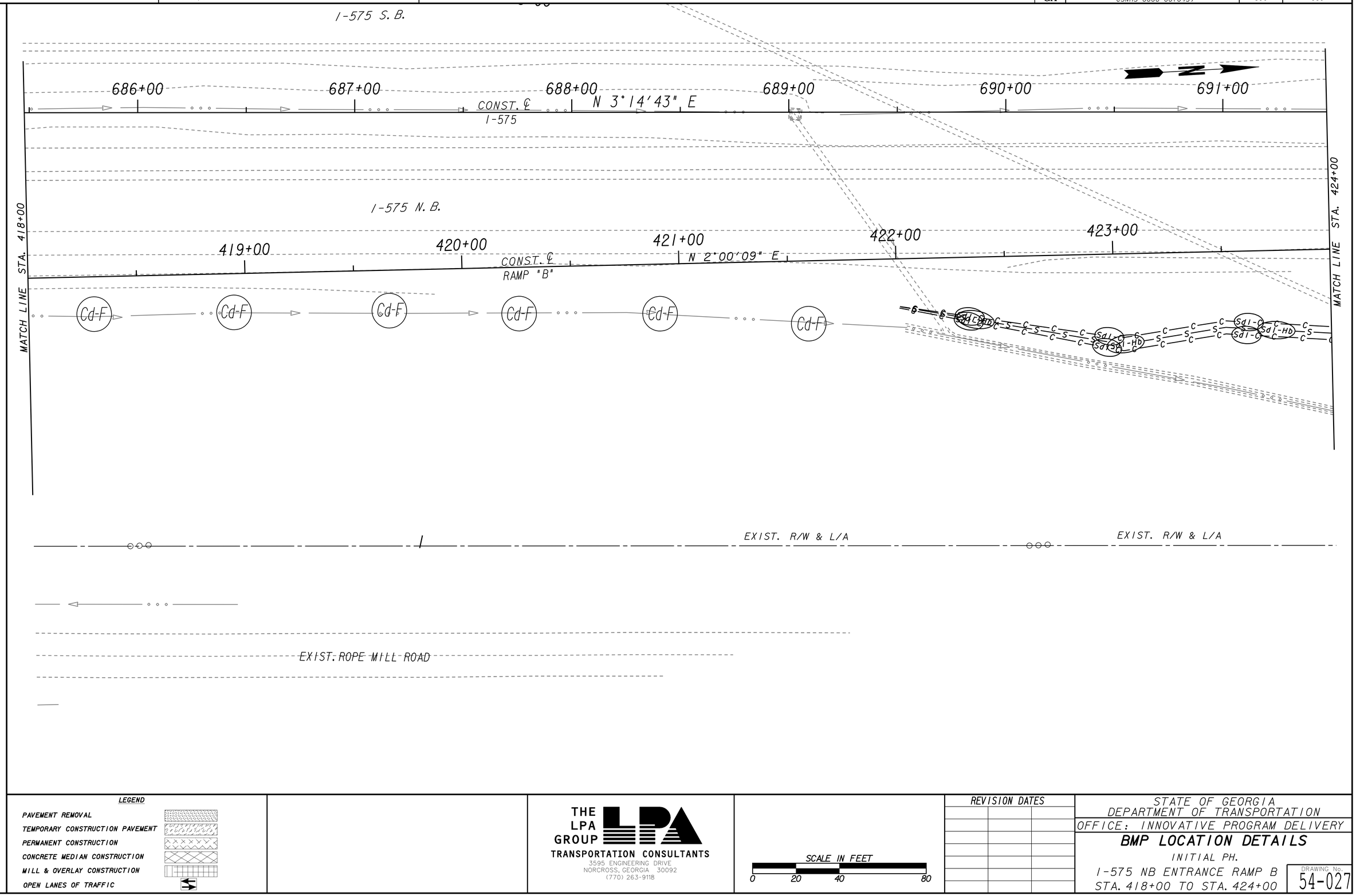
I-575 NB ENTRANCE RAMP B
STA. 412+00 TO STA. 418+00

DRAWING No. 54-026

1/5/2009 GPLN

23-DEC-2010 11:28	TIME$$$	006043ER27-0	R:\07400004\006043\DGN\006043ER27-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	590	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

I-575 NB ENTRANCE RAMP B
STA. 418+00 TO STA. 424+00

DRAWING No. 54-027

1/5/2009 GPLN

23-DEC-2010 11:28 JParks	TIME$$$ 006043ER28-0 8825Full.pen	R:\07400004\006043\DGN\006043ER28-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	591	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

692+00 693+00 694+00 695+00 696+00 697+00

CONST. ℄ I-575

N 3°14'43" E

I-575 N.B.

425+00 426+00 427+00

MATCH LINE STA. 418+00

N 2°00'09" E

CONST. ℄ RAMP "B"

END RAMP "B" STA. 427+96.04

Rd

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

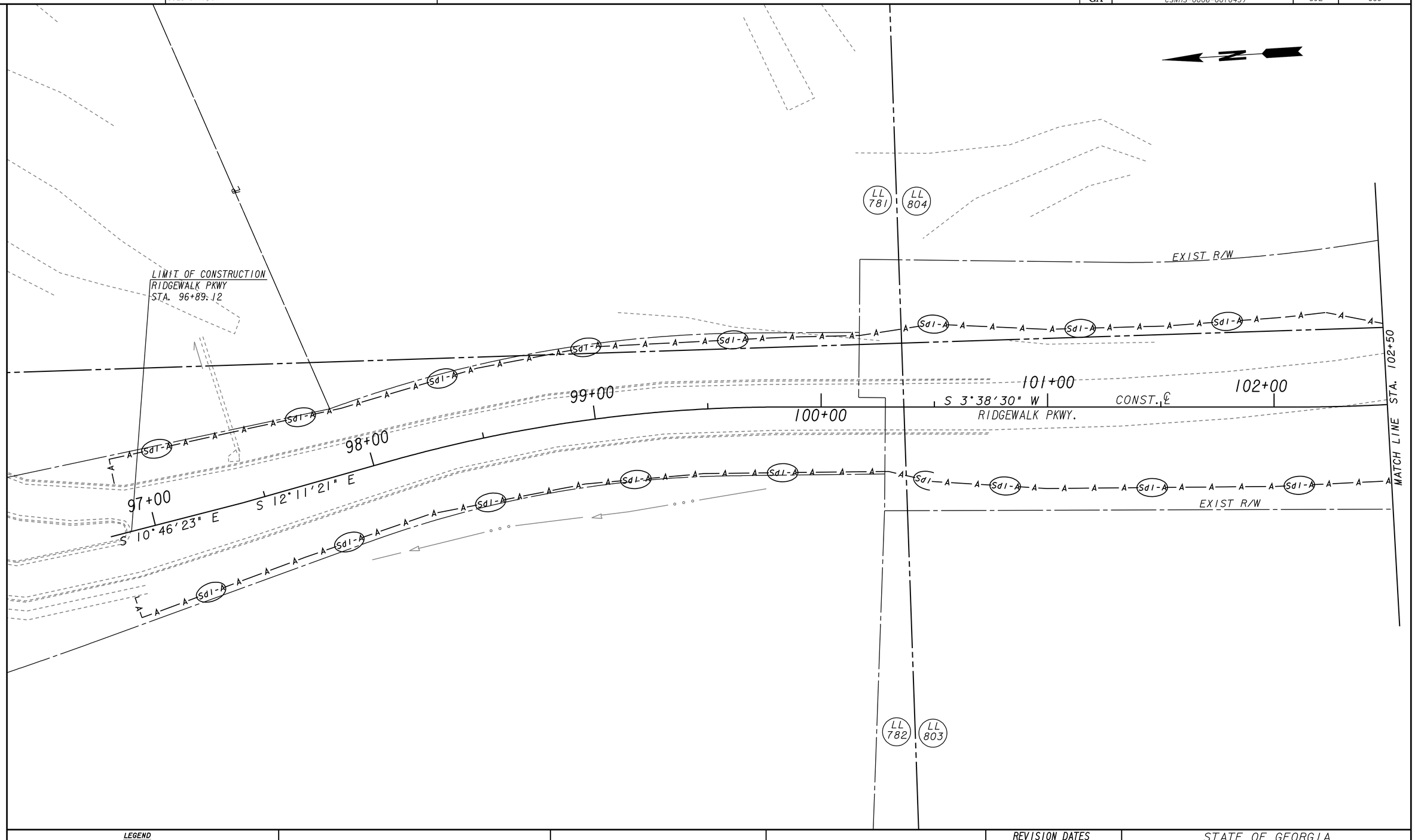
I-575 NB ENTRANCE RAMP B
STA. 418+00 TO END CONST.

DRAWING No. 54-028

1/5/2009 GPLN

23-DEC-2010 11:28 JParks	TIME$$$ 006043ER29-0 8825Full.pen	R:\07400004\006043\DGN\006043ER29-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	592	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

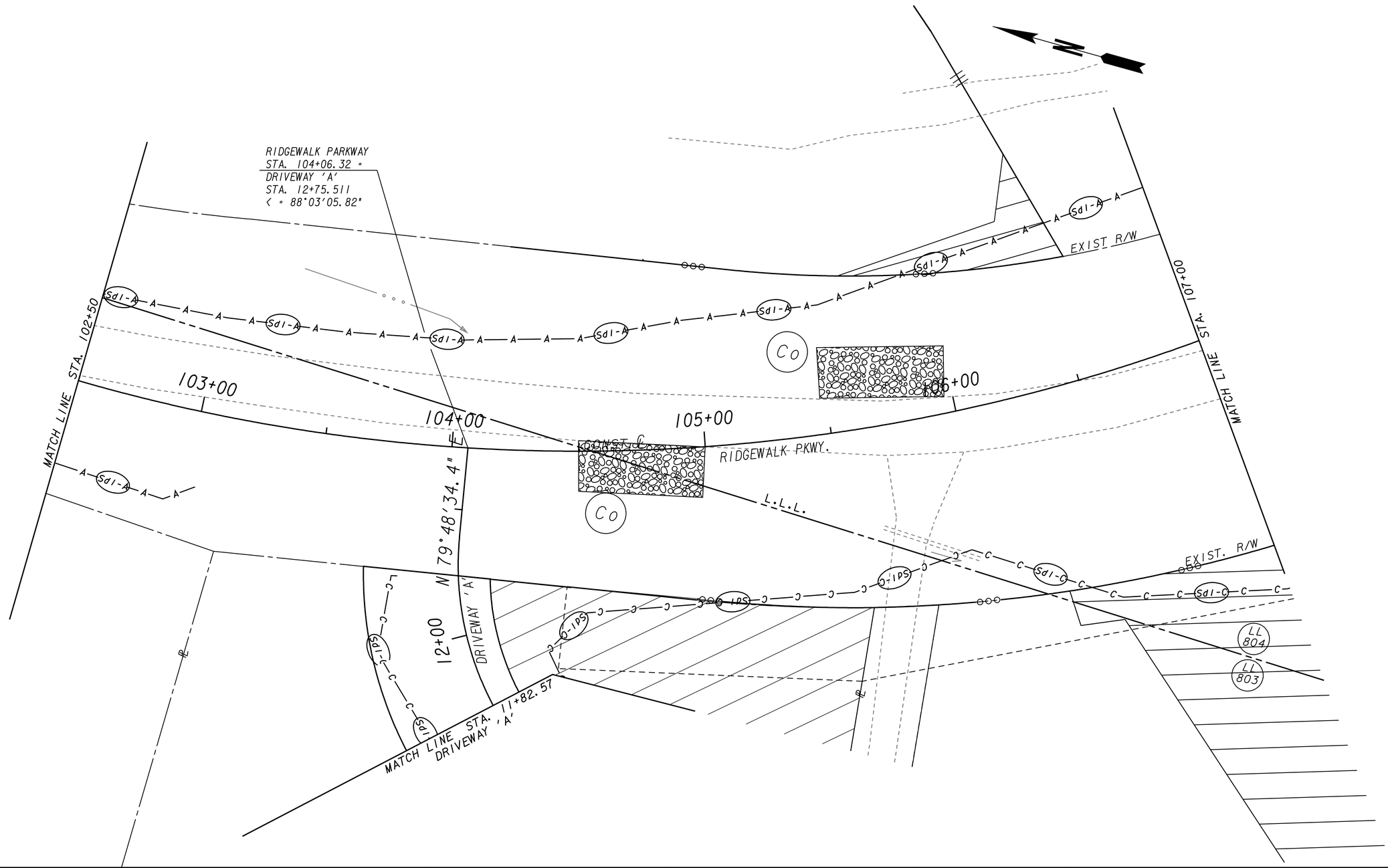
INITIAL PH.
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 54-029

1/5/2009 GPLN

23-DEC-2010 11:28	TIME$$$	006043ER30-0	R:\07400004\006043\DGN\006043ER30-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	593	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 54-030

1/5/2009 GPLN

23-DEC-2010 11:28 JParks	TIME$$ 006043ER31-0 8825Full.pen	R:\07400004\006043\DGN\006043ER31-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	594	668

RELEASED FOR CONSTRUCTION 12/02/10

EXIT RAMP C MATCH LINE STA. 12+50

CONST. ℄ RAMP "C"

RIDGEWALK PARKWAY
STA. 108+54.77 = SB EXIT RAMP "C" STA. 500+00.00
∠ = 79°47'14.19"

501+00

N 32°00'08" E

N 32°00'07" E

EXIST. L/A & R/W

108+00

109+00

110+00

CONSTRUCTION JOINT

CONST. ℄

111+00

112+00

RIDGEWALK PKWY.

S 47°47'07" E

MATCH LINE STA. 107+00

CONST. ℄

RIDGEWALK PARKWAY
STA. 108+54.77 = SB ENTRANCE RAMP "D" STA. 721+04.45
∠ = 79°47'13.39"

CO

PG 016

EXIST. R/W

720+00

CONST. ℄ RAMP "D"

MATCH LINE STA. 719+50 ENTRANCE RAMP D

LL 803

LL 804

CONST. ℄ I-575

00+219

00+119

00+079

00+699

Sd2-F

NON-BUFFERED STATE WATERS - CONCRETE FLUME

I-575 SOUTHBOUND

I-575 NORTHBOUND

MATCH LINE STA. 112+50

Cd-F

Sd1-A

Sd1-C

Sd1

Sd1-D

Sd1-PS

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 54-031

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

SEE DWG. NO. 19-024
ENTRANCE RAMP B
MATCH LINE STA. 401+50

RAMP "B" CONST. ℄

401+00

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00
∠ = 89°48'22.75"

ACCESS EASEMENT

REQD R/W & L/A

LL 804

LL 853

REQD R/W & L/A

EXIST R/W

113+00 114+00 115+00 116+00 117+00 118+00

CONST. ℄

S 47°47'07" E

N 42°01'19" E

RIDGEWALK PKWY.

S 46°36'07" E

MATCH LINE STA. 112+50

MATCH LINE STA. 118+50

319+00

EXIST R/W

EXIST. R/W & L/A

REQD L/A

REQD L/A

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65
∠ = 87°58'38.76"

LL 804

LL 853

CONST. ℄ RAMP "A"

ID R/W & L/A

MATCH LINE STA. 318+00
EXIT RAMP A
SEE DWG. NO. 19-023

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

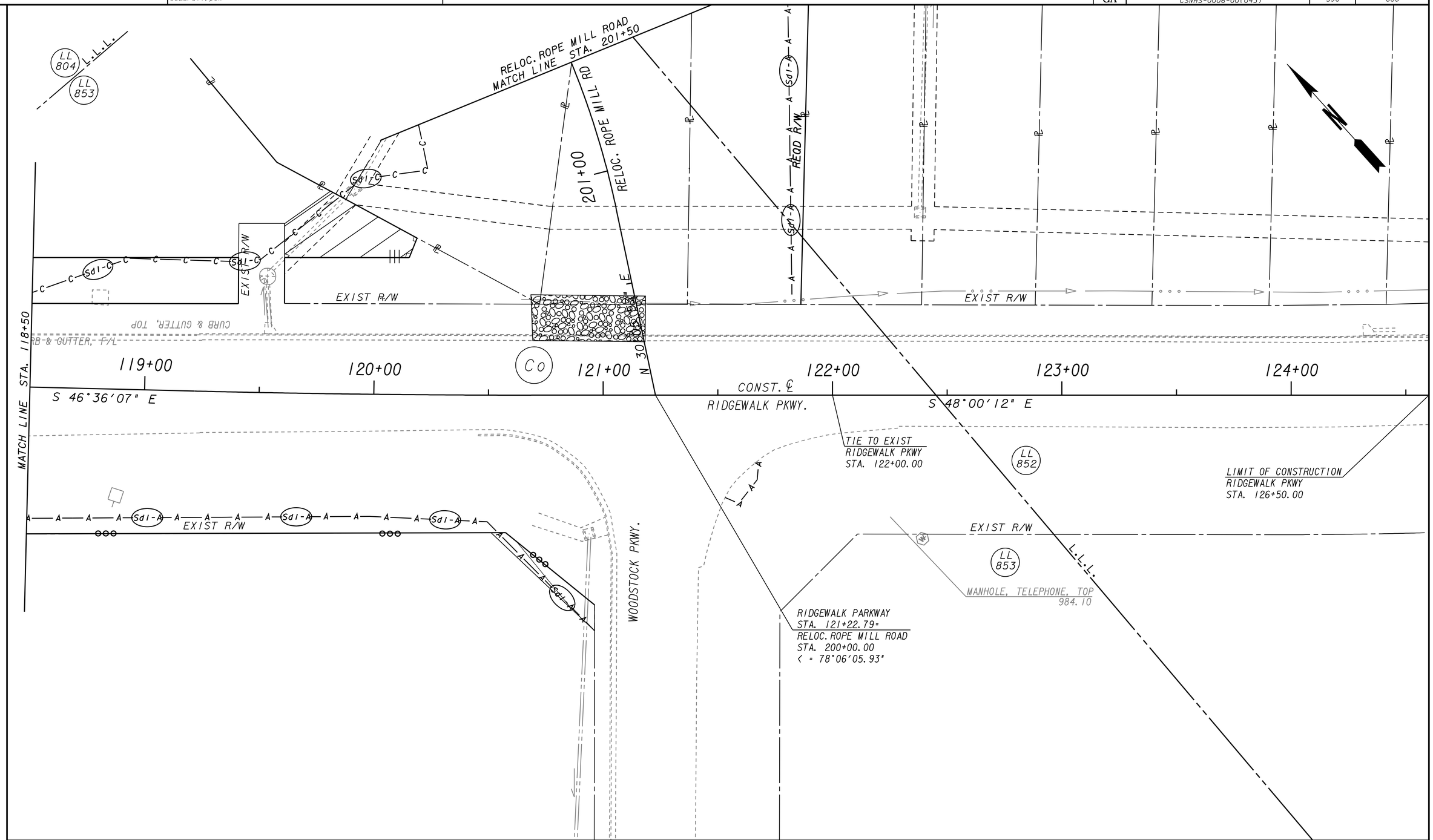
INITIAL PH.

RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 54-032

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

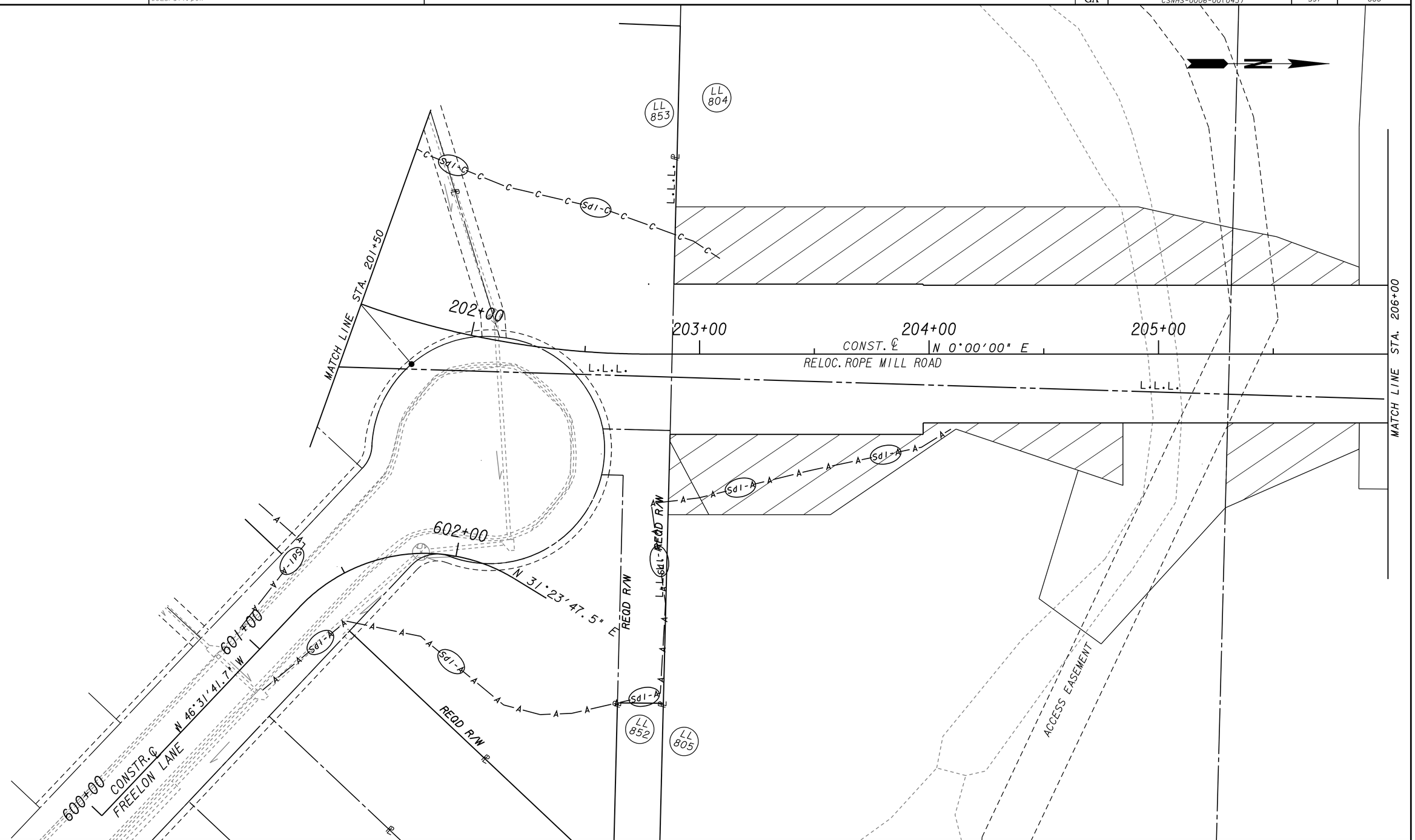
DRAWING No. 54-033

1/5/2009 GPLN

23-DEC-2010 11:29 TIME$$ 006043ER34-0
JParks 8825Full.pen
R:\07400004\006043\DGN\006043ER34-0.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	597	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

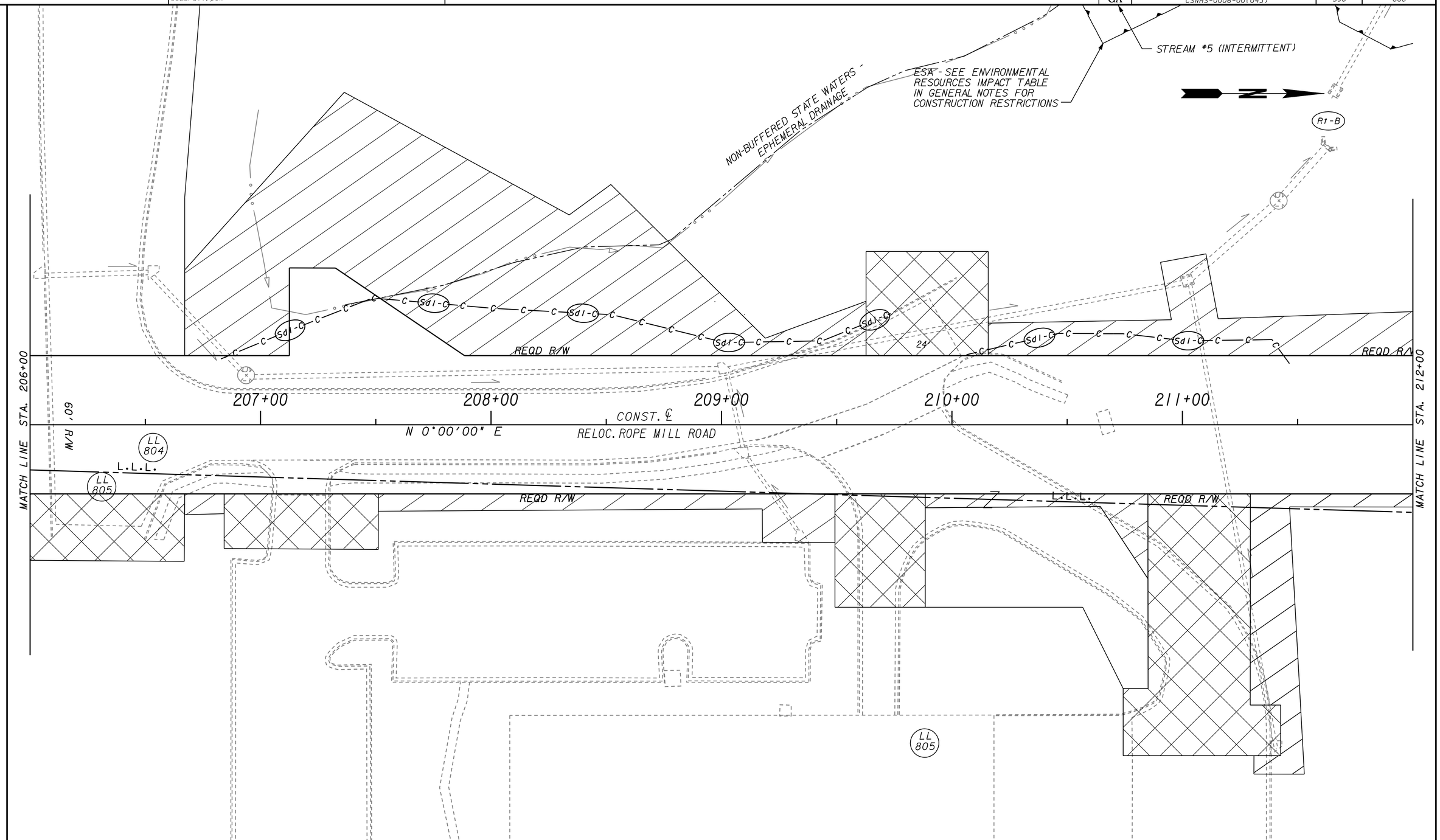
RELOC. ROPE MILL ROAD
STA. 201+50 TO STA. 206+00

DRAWING No. 54-034

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	598	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

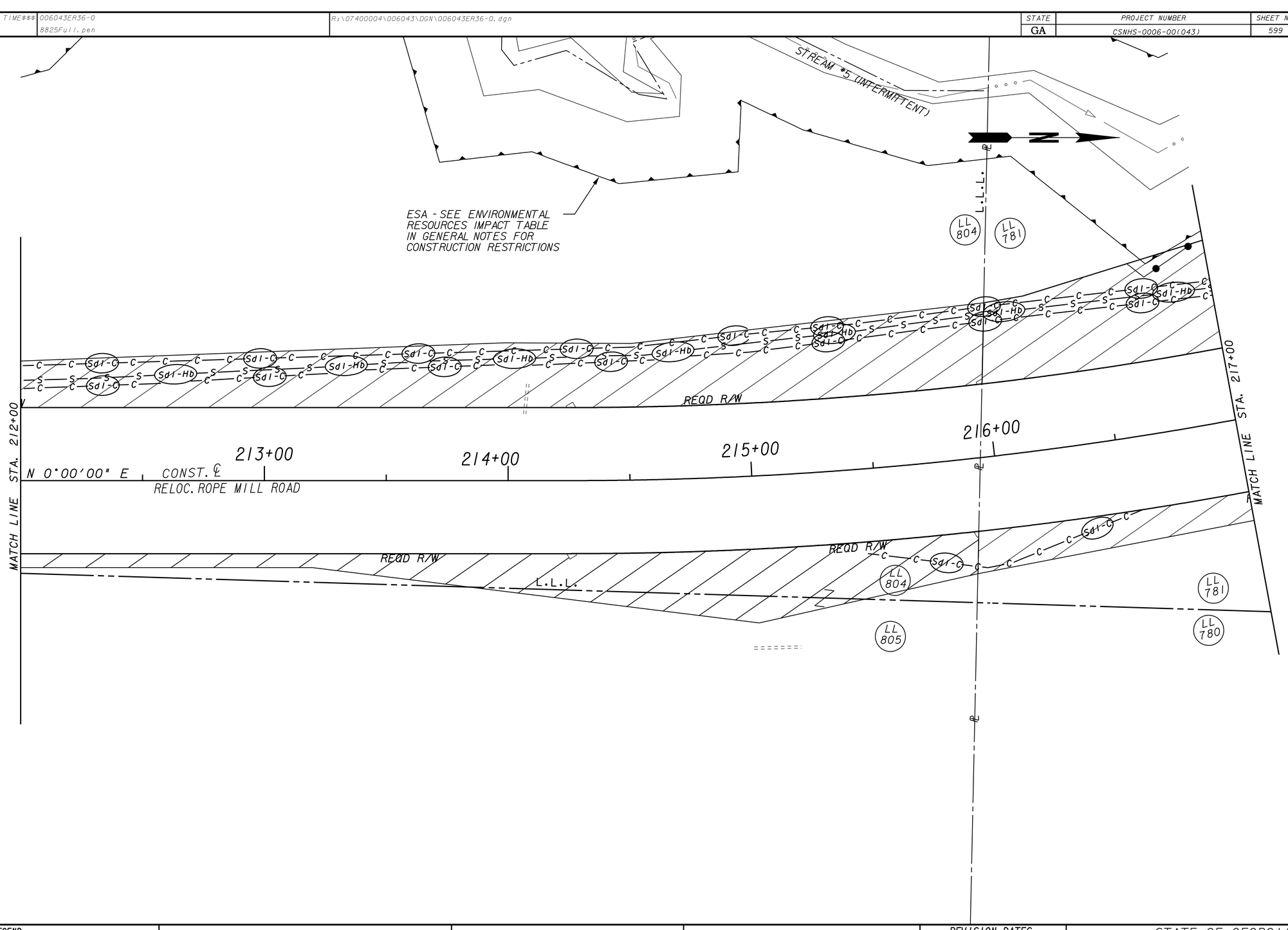
BMP LOCATION DETAILS

INITIAL PH.
RELOC. ROPE MILL ROAD
STA. 206+00 TO STA. 212+00

DRAWING No. 54-035

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

RELOC. ROPE MILL ROAD
STA. 212+00 TO STA. 217+00

DRAWING No. 54-036

1/5/2009 GPLN

23-DEC-2010 11:29 JParks	TIME*** 006043ER37-0 8825Full.pen	R:\07400004\006043\DGN\006043ER37-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	600	668

RELEASED FOR CONSTRUCTION 12/02/10

ESA-25' STREAM BUFFER

STREAM #5 (INTERMITTENT)

STREAM #5 (PERENNIAL)

INTERMITTENT STREAM #5A

EXIST R/W

ESA-25' STREAM BUFFER

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ESA-25' STREAM BUFFER

EXIST R/W

MATCH LINE STA. 217+00

218+00

219+00

220+00

221+00

N 26°47'39" W

REQD R/W

REQD R/W

REQD R/W

REQD R/W

REQD R/W

CONST. ℄ RELOC. ROPE MILL ROAD

STREAM #5 (PERENNIAL)

L.L.L.

TEMPORARY ORANGE BARRIER FENCE

TEMPORARY ORANGE BARRIER FENCE

NOTE:
CONSTRUCTION ACTIVITIES SHALL NOT TAKE PLACE WITHIN THE BUFFERED AREA OF STREAM #5 FROM MARCH 1ST THROUGH JUNE 15TH

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

MATCH LINE STA. 222+00

℄

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

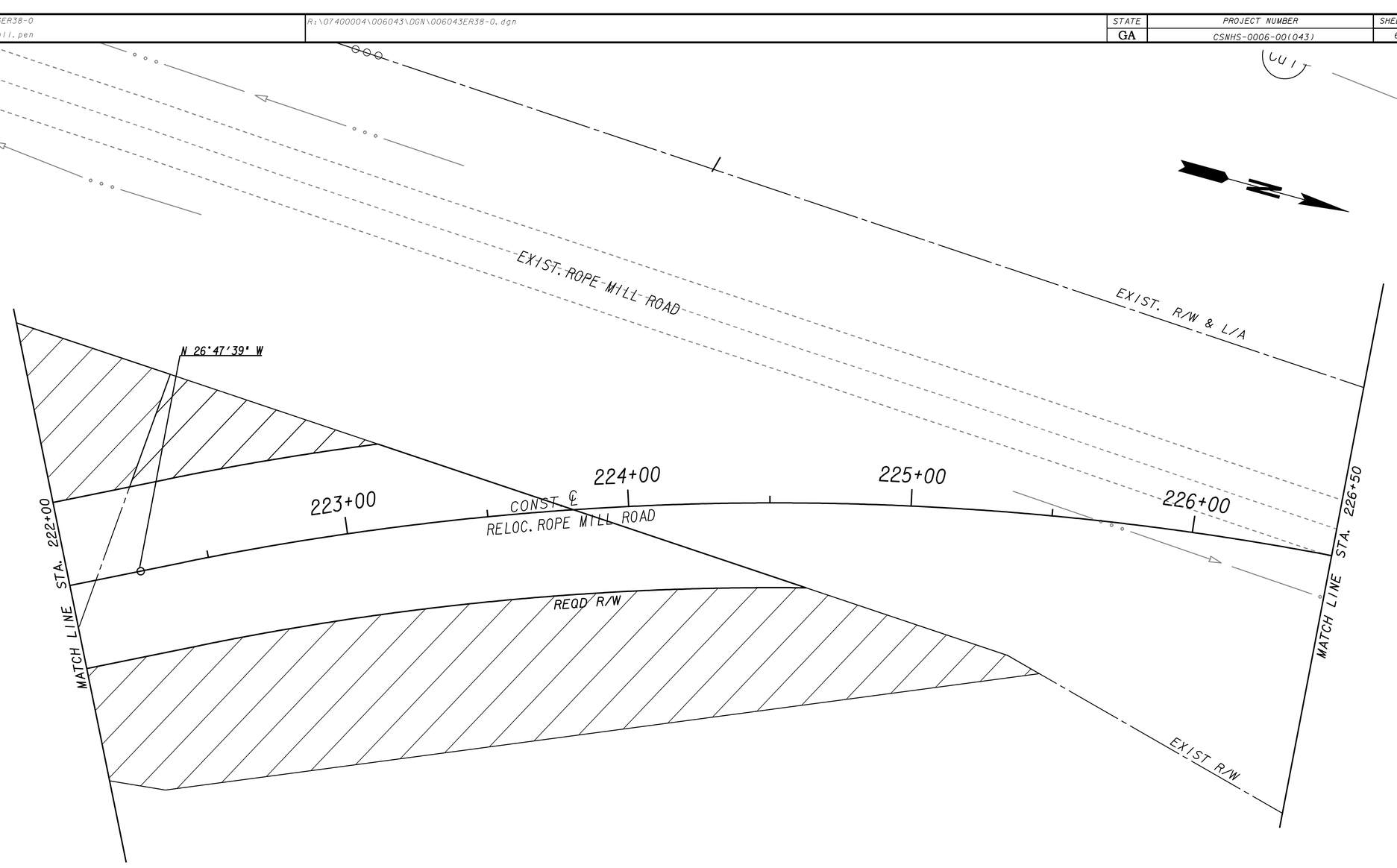
RELOC. ROPE MILL ROAD
STA. 217+00 TO STA. 222+00

DRAWING No. 54-037

1/5/2009 GPLN

23-DEC-2010 11:30 JParks	TIME$$$ 006043ER38-0 8825Full.pen	R:\07400004\006043\DGN\006043ER38-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	601	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

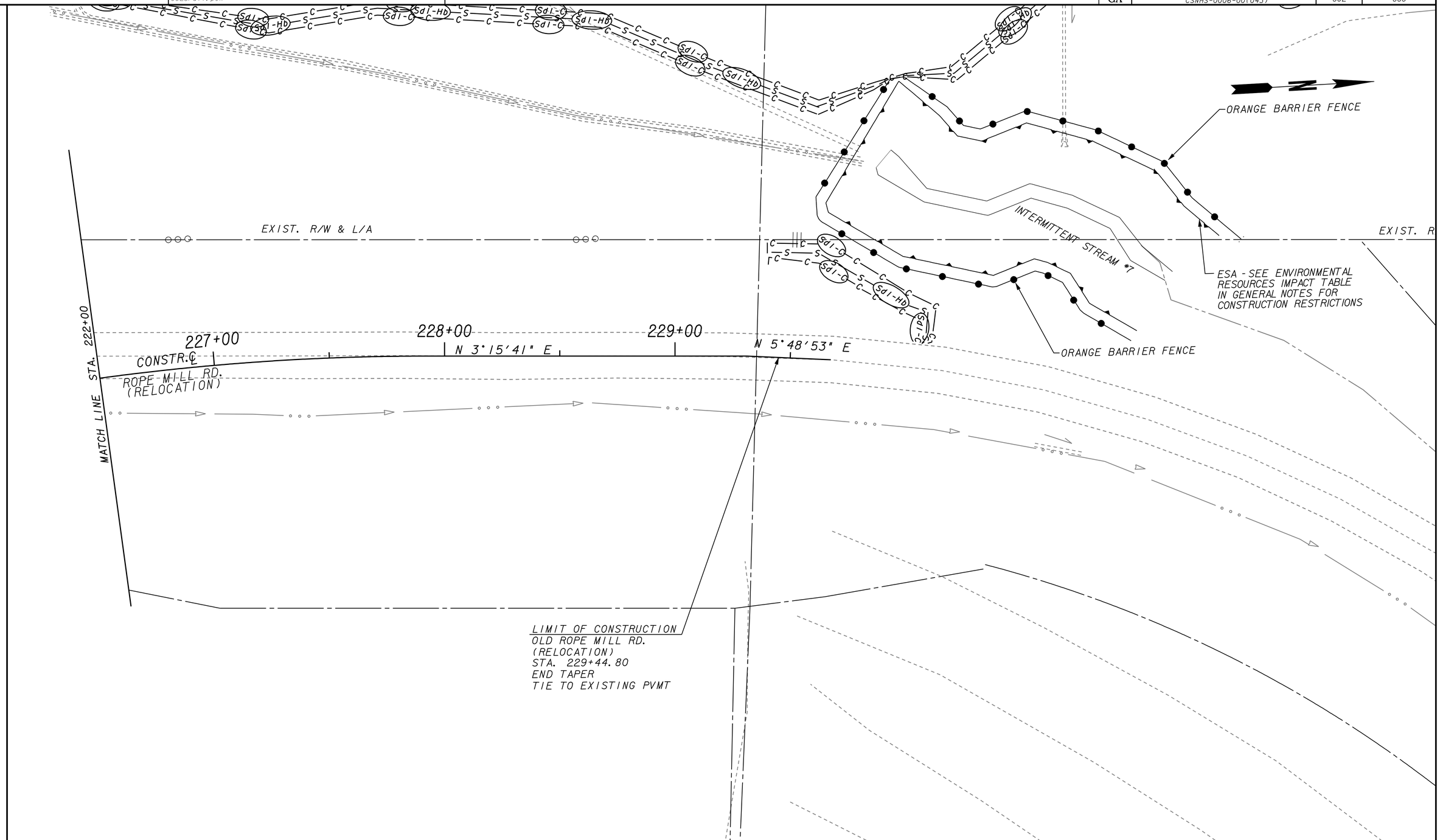
RELOC. ROPE MILL ROAD
STA. 222+00 TO STA. 226+50

DRAWING No. 54-038

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	602	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INITIAL PH.

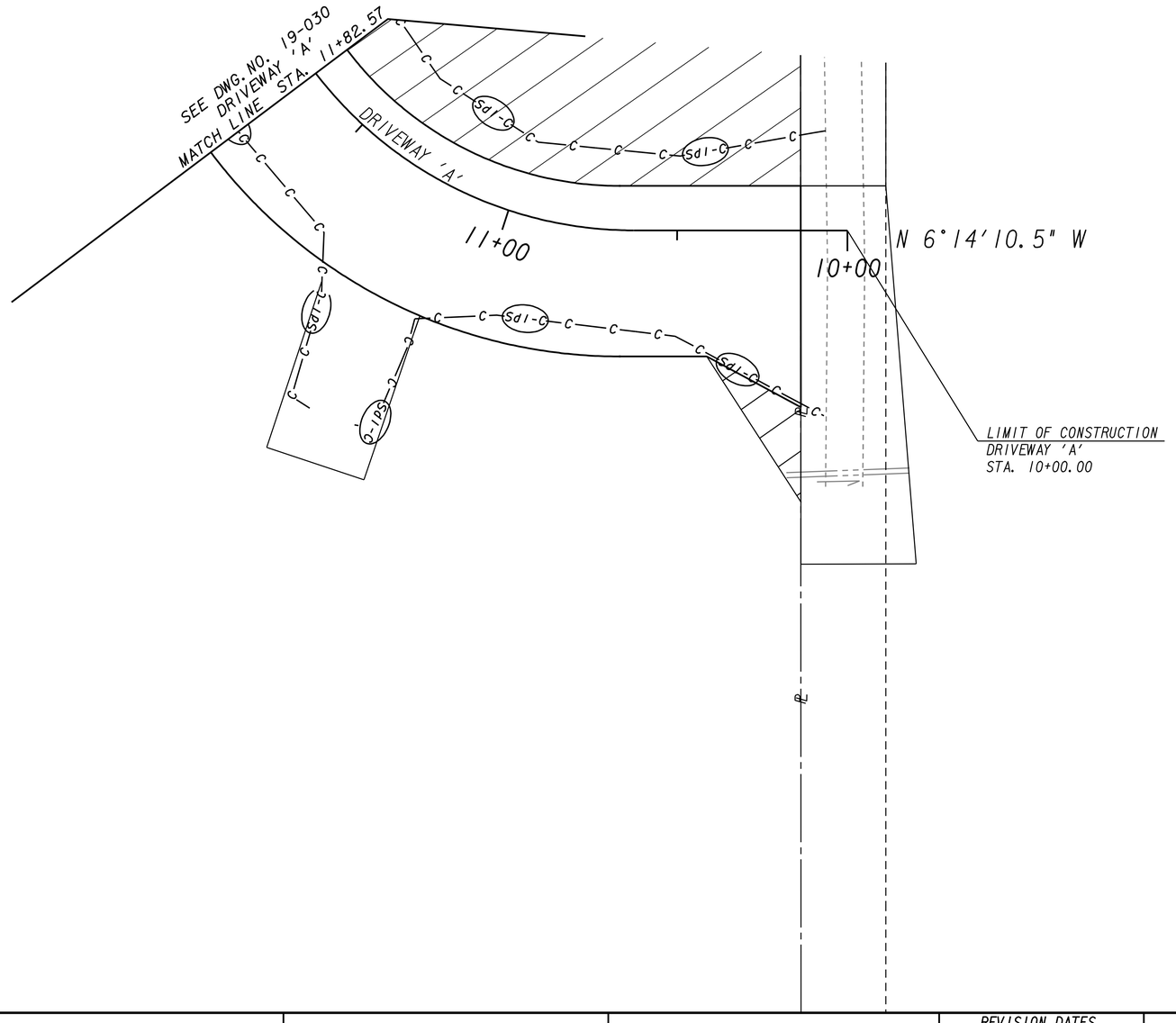
RELOC. ROPE MILL ROAD
STA. 226+50 TO END CONST.

DRAWING No. 54-039

1/5/2009 GPLN

23-DEC-2010 10:37	TIME$$$	006043ER40-0	R:\07400004\006043\DGN\006043ER40-0.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	603	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

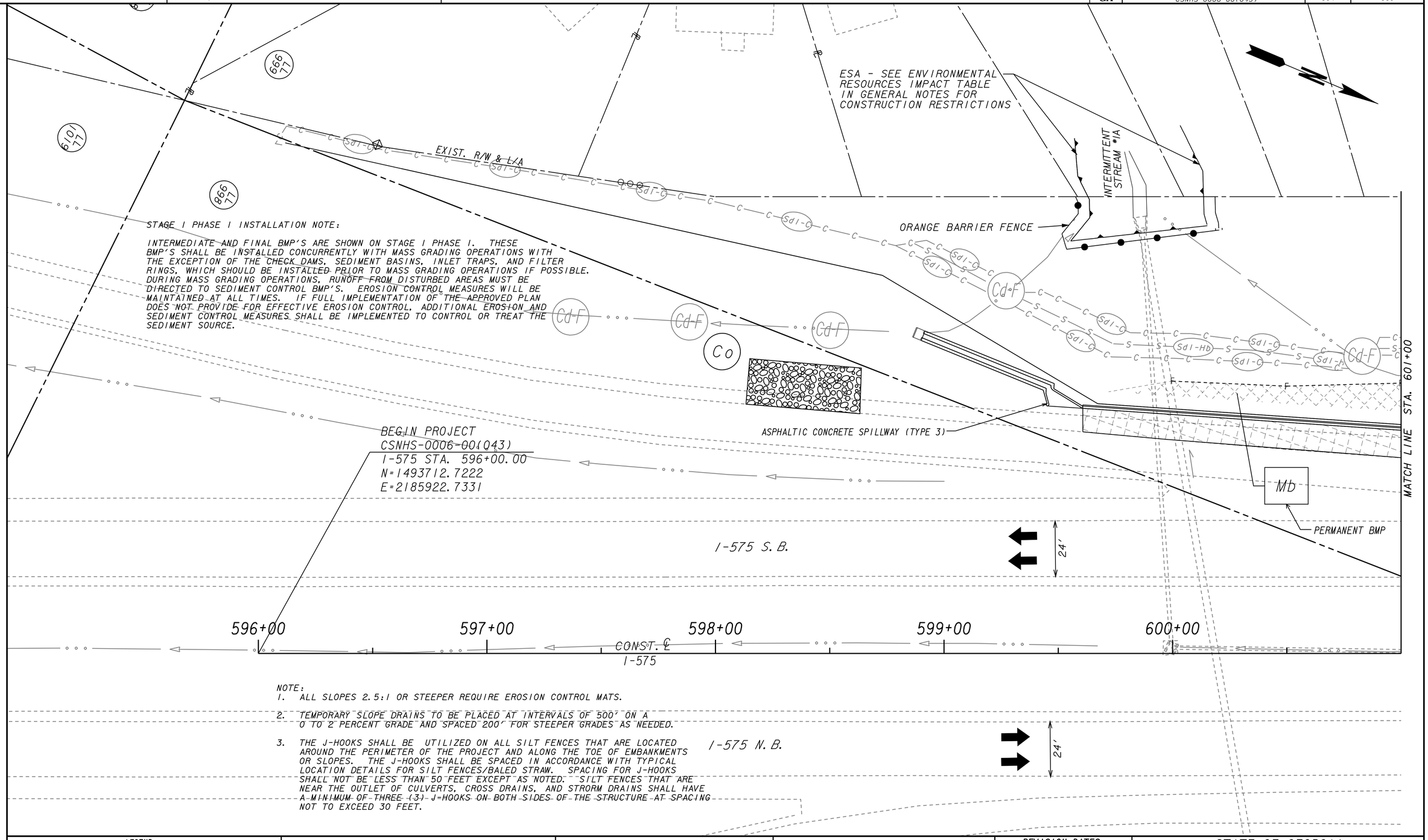
BMP LOCATION DETAILS

INITIAL PH.
DRIVEWAY 'A'
BEGIN CONS. TO STA. 11+82.57

DRAWING No. 54-040

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



NOTE:
1. ALL SLOPES 2.5:1 OR STEEPER REQUIRE EROSION CONTROL MATS.
2. TEMPORARY SLOPE DRAINS TO BE PLACED AT INTERVALS OF 500' ON A 0 TO 2 PERCENT GRADE AND SPACED 200' FOR STEEPER GRADES AS NEEDED.
3. 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 TYPICAL 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.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- OPEN LANES OF TRAFFIC

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

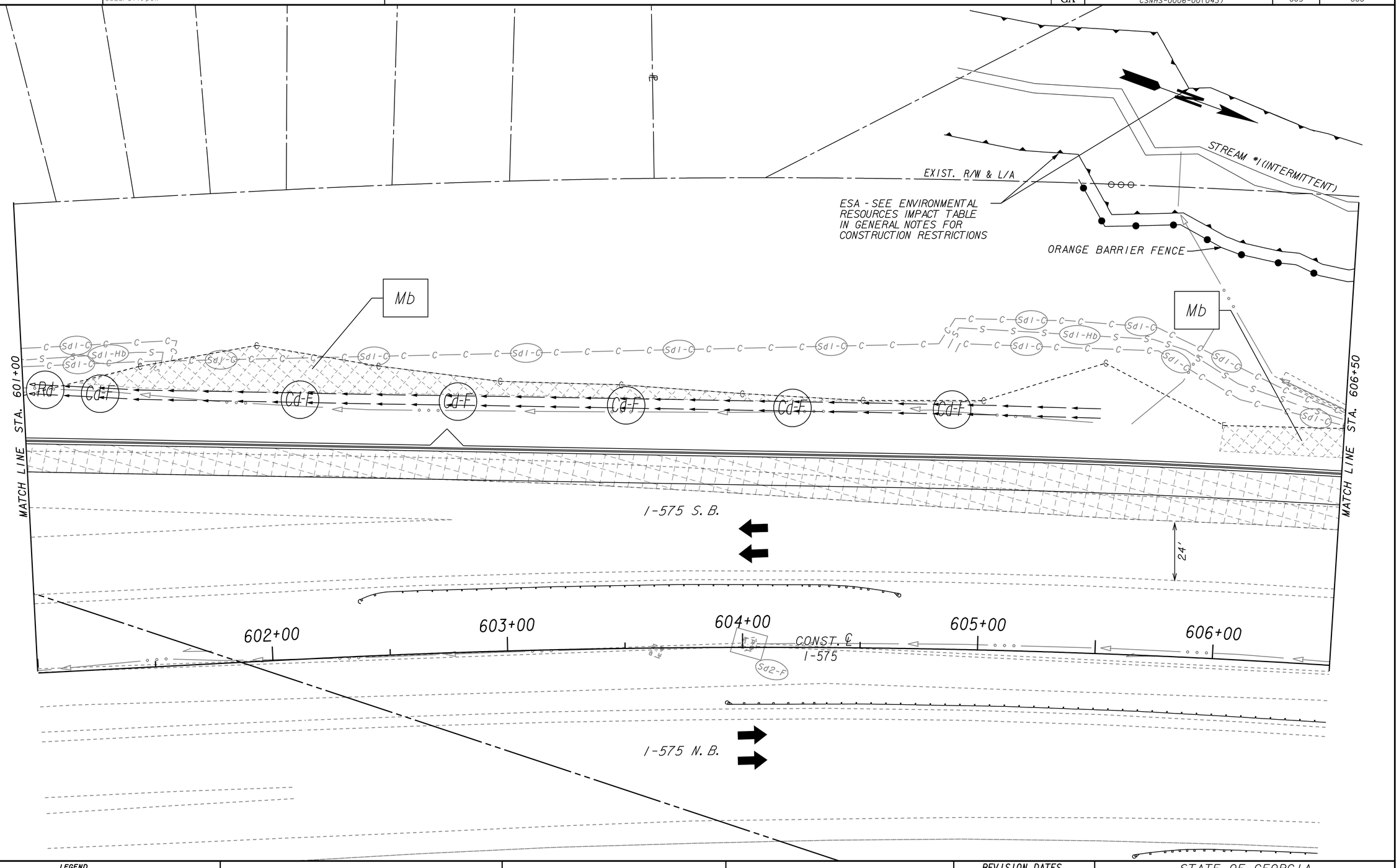
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
BEGIN PROJECT TO STA. 601+00

DRAWING No. 54-041

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	605	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 601+00 TO STA. 606+50

DRAWING No. 54-042

1/5/2009 GPLN

23-DEC-2010 10:38	TIME$$$	006043ER03-1A	R:\07400004\006043\DGN\006043ER03-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	606	668

RELEASED FOR CONSTRUCTION 12/02/10

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

STREAM #1 (NON-BUFFERED STATE WATER) EPHEMERAL DRAINAGE

EXIST. R/W & L/A

ORANGE BARRIER FENCE

PERMANENT BMP

RIP RAP TP 3 9 SY

18"

MATCH LINE STA. 606+50

MATCH LINE STA. 612+00

24'

I-575 S.B.

I-575 N.B.

607+00 608+00 609+00 610+00 611+00

CONST. ℄ I-575

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

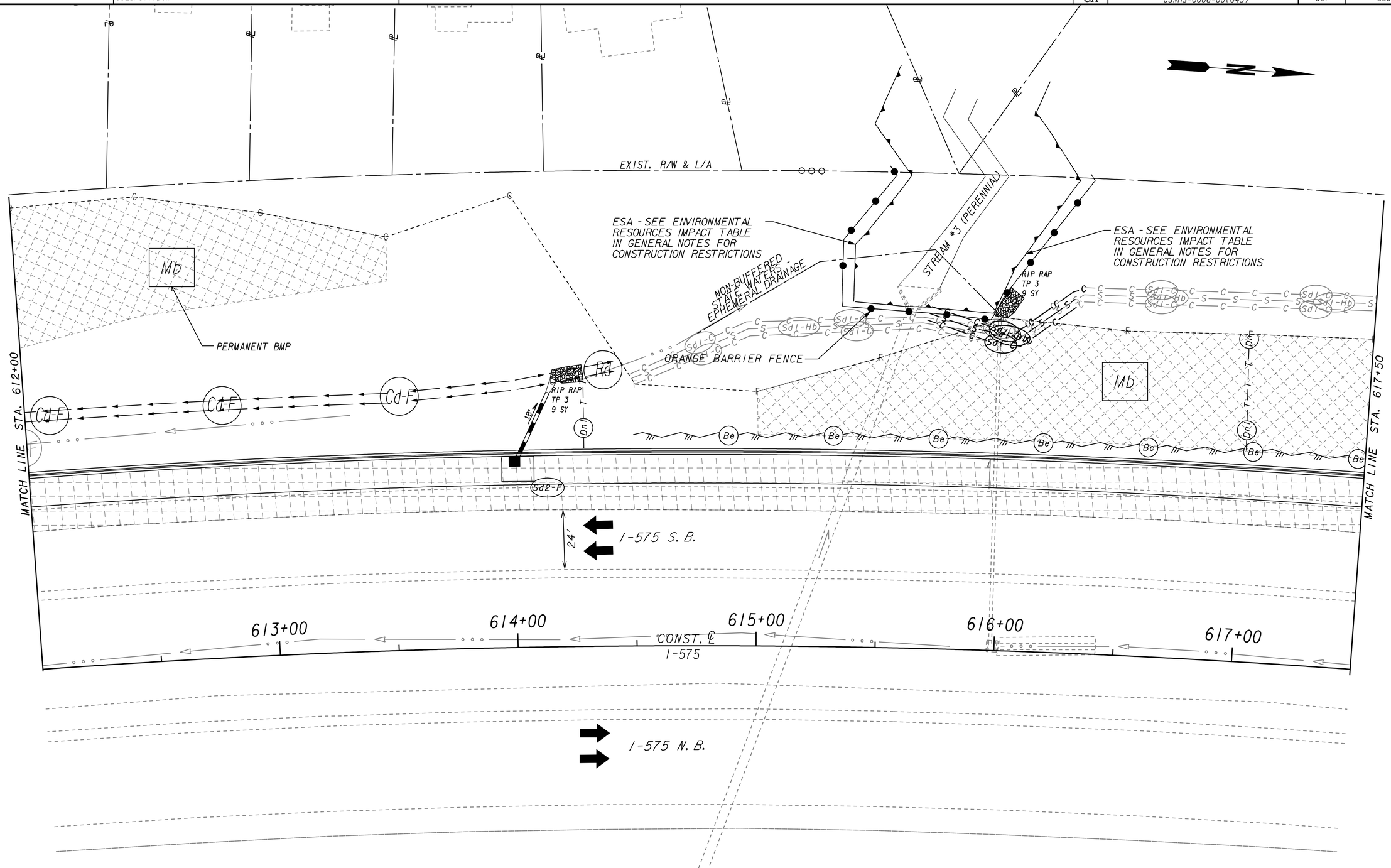
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 606+50 TO STA. 612+50

DRAWING No. 54-043

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	607	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

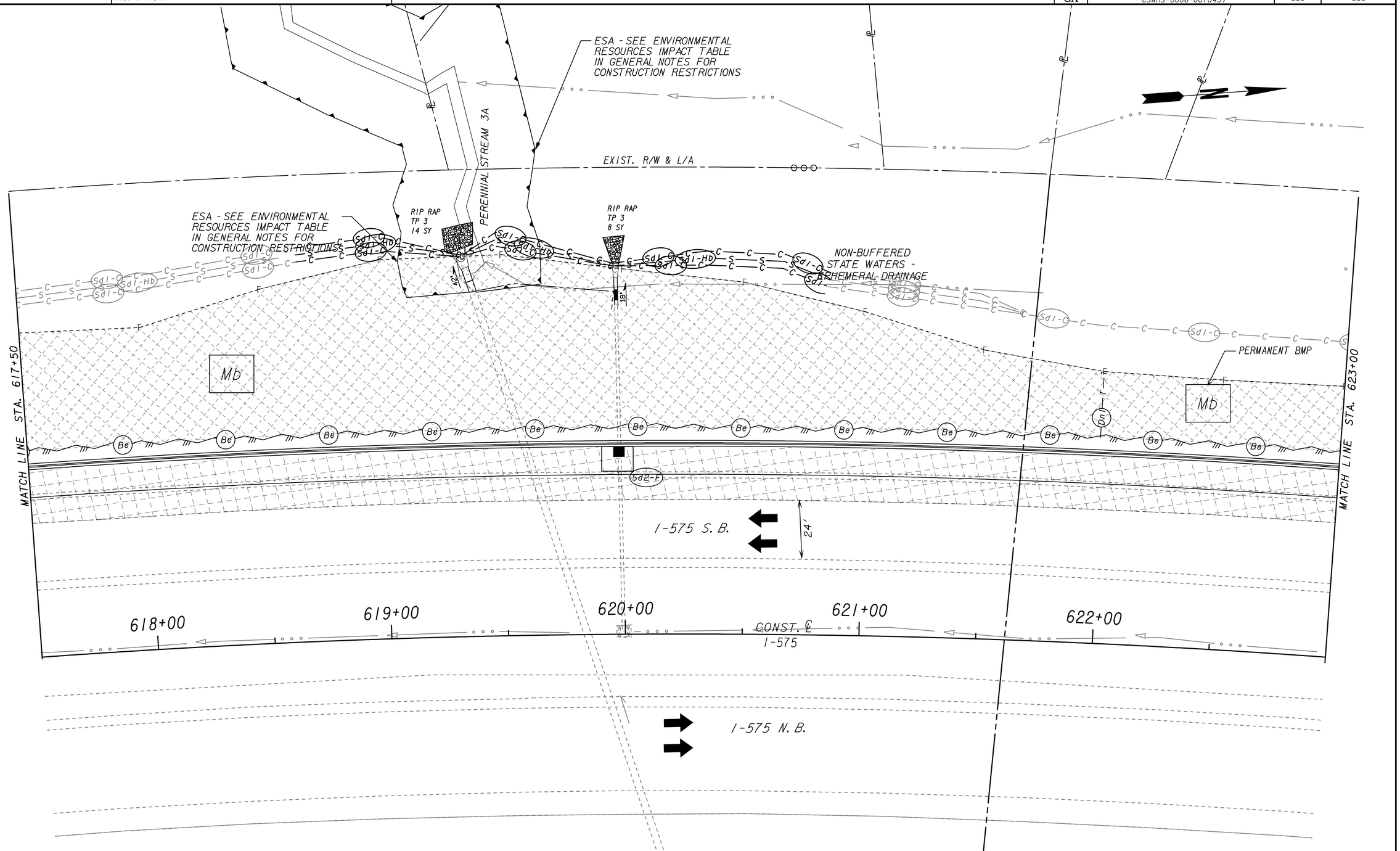
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 612+00 TO STA. 617+50

DRAWING No. 54-044

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	608	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

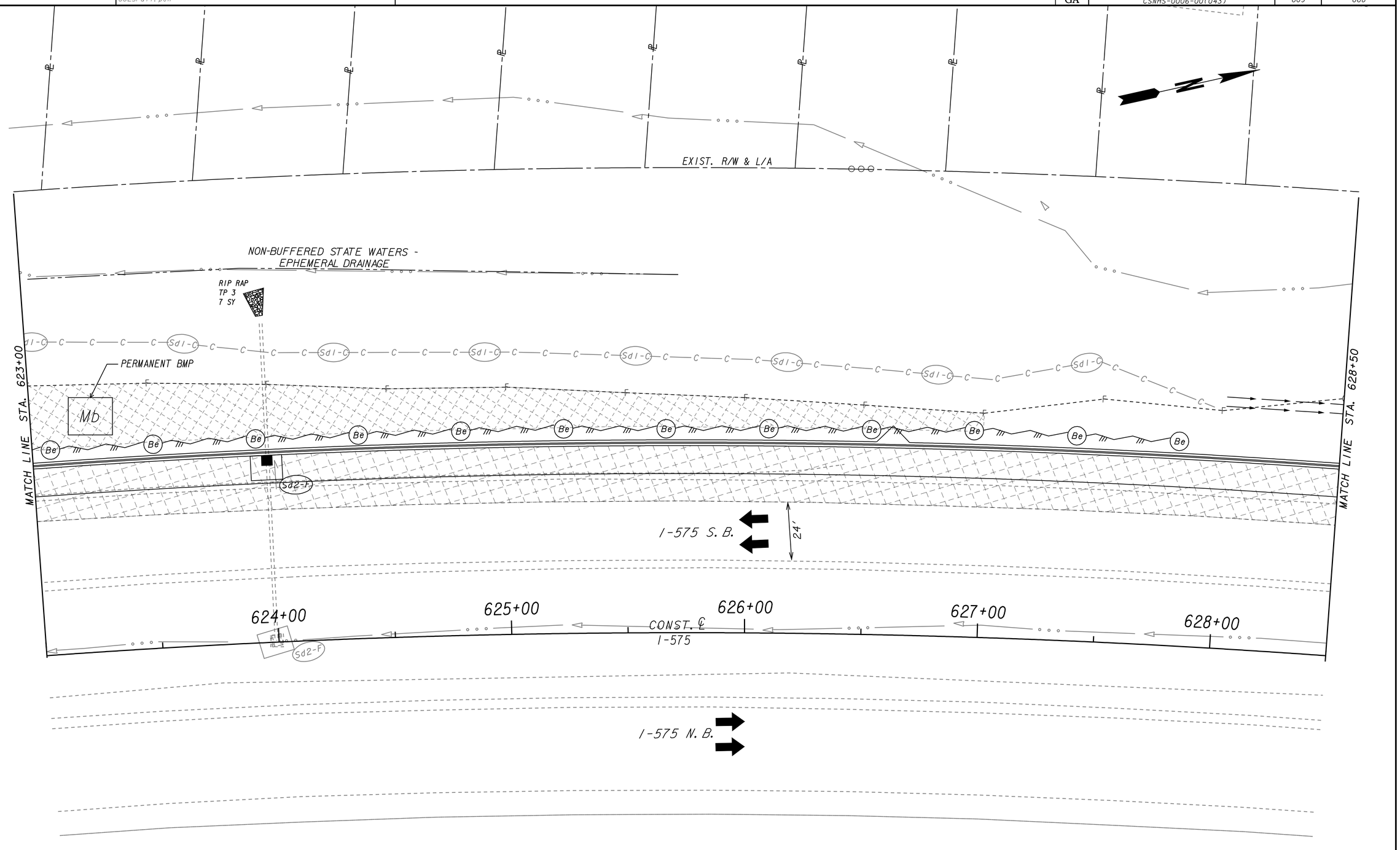
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 617+50 TO STA. 623+00

DRAWING No. 54-045

1/5/2009 GPLN

23-DEC-2010 10:38 JParks	TIME\$\$ 006043ER06-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER06-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	609	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

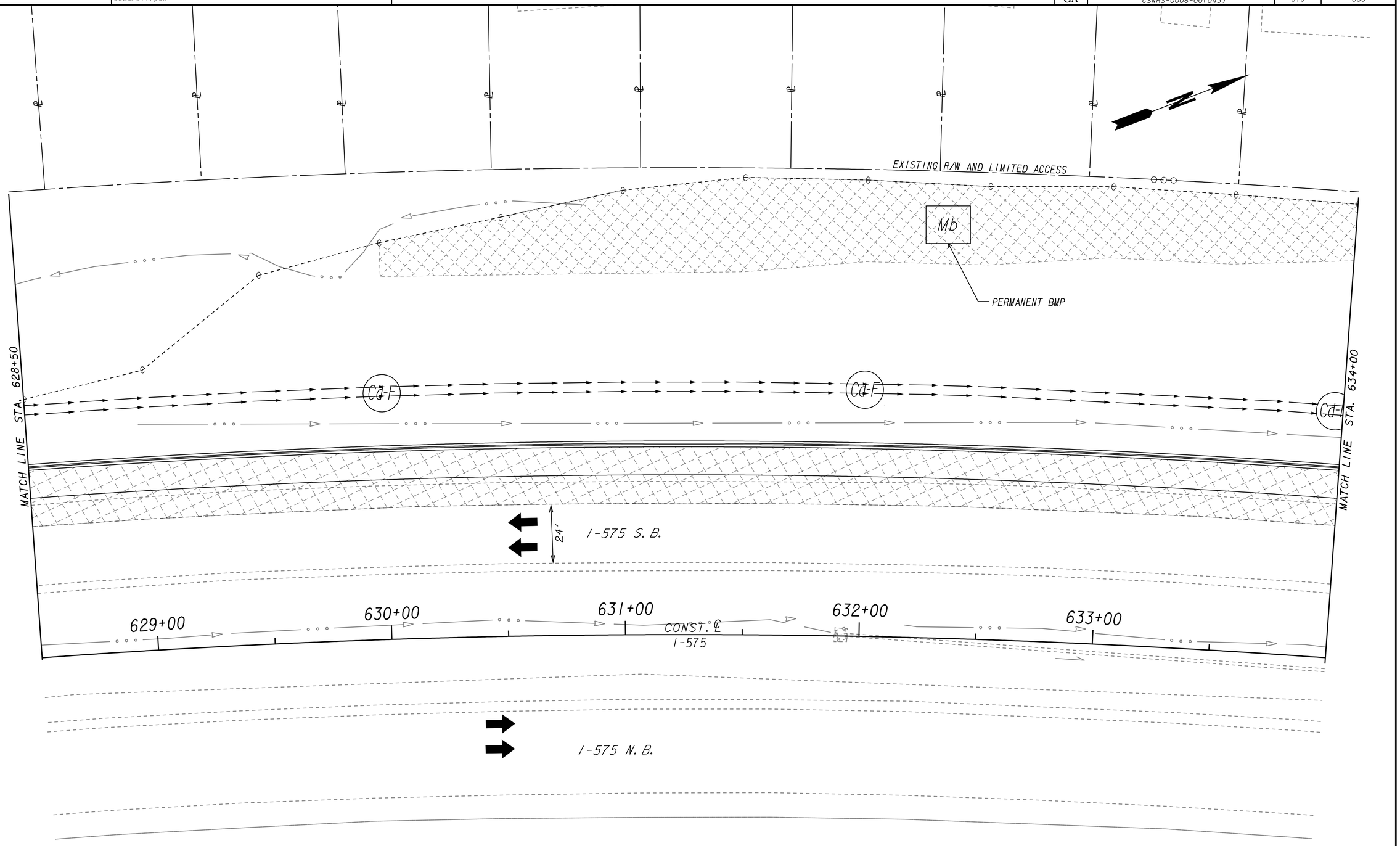
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 623+00 TO STA. 628+50

DRAWING No. 54-046

1/5/2009 GPLN

23-DEC-2010 10:38 JParks	TIME$$$ 006043ER07-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER07-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	610	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
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SCALE IN FEET
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REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

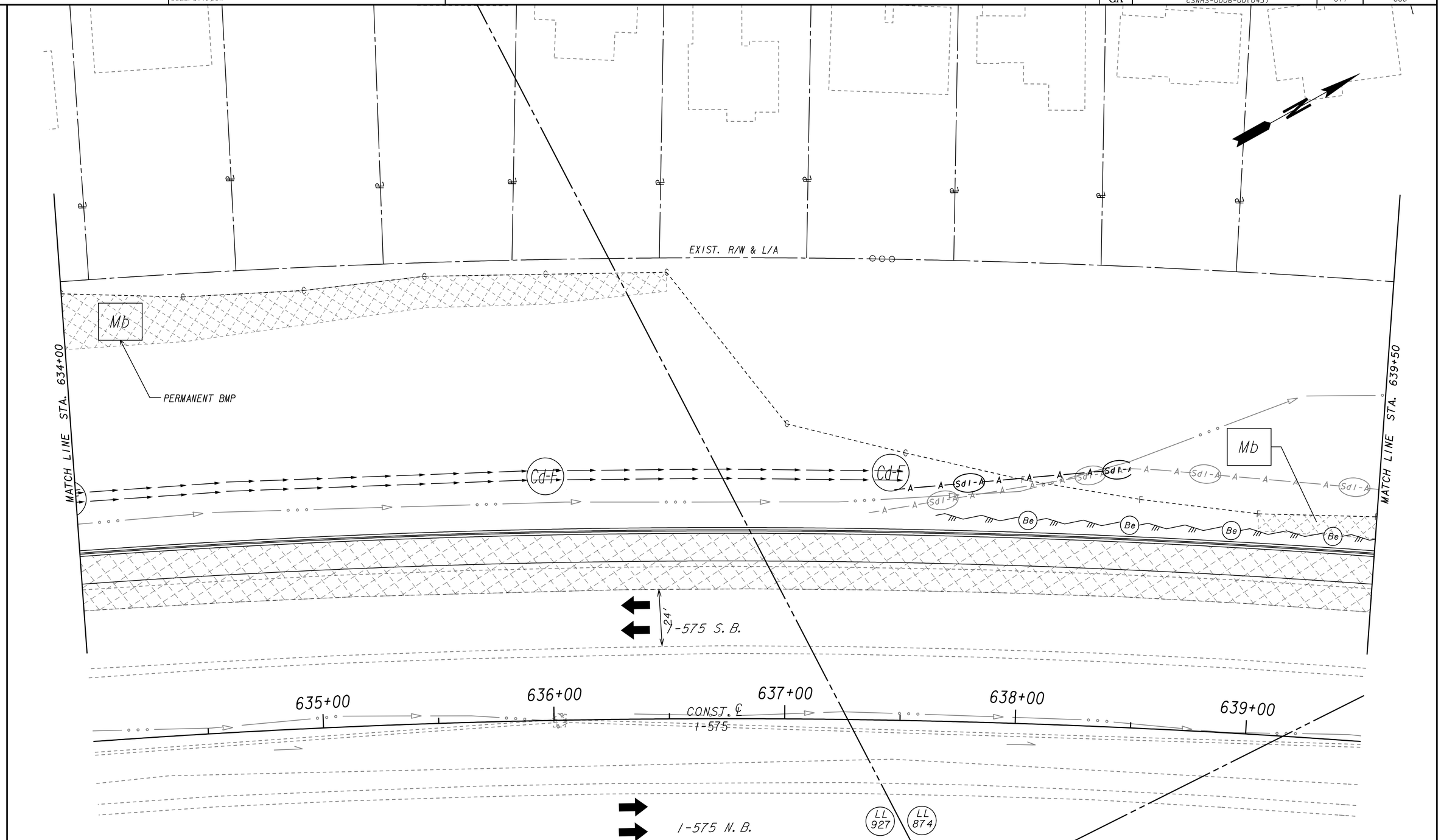
INTERMEDIATE PHASE

I-575 SB AUXILIARY LANE
STA. 628+50 TO STA. 634+00

DRAWING No. 54-047

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

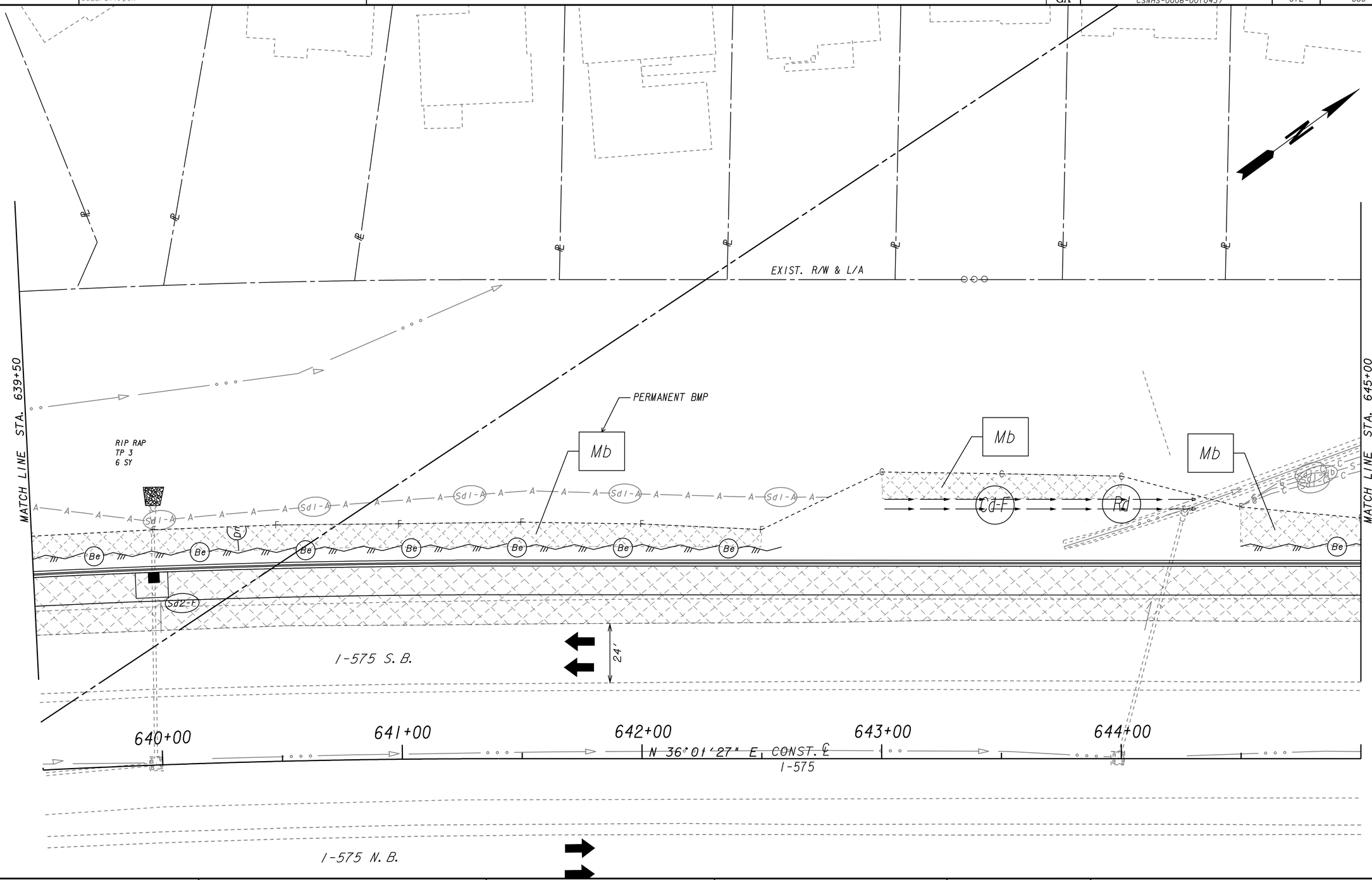
BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 634+00 TO STA. 639+50

DRAWING No. 54-048

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
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- OPEN LANES OF TRAFFIC

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

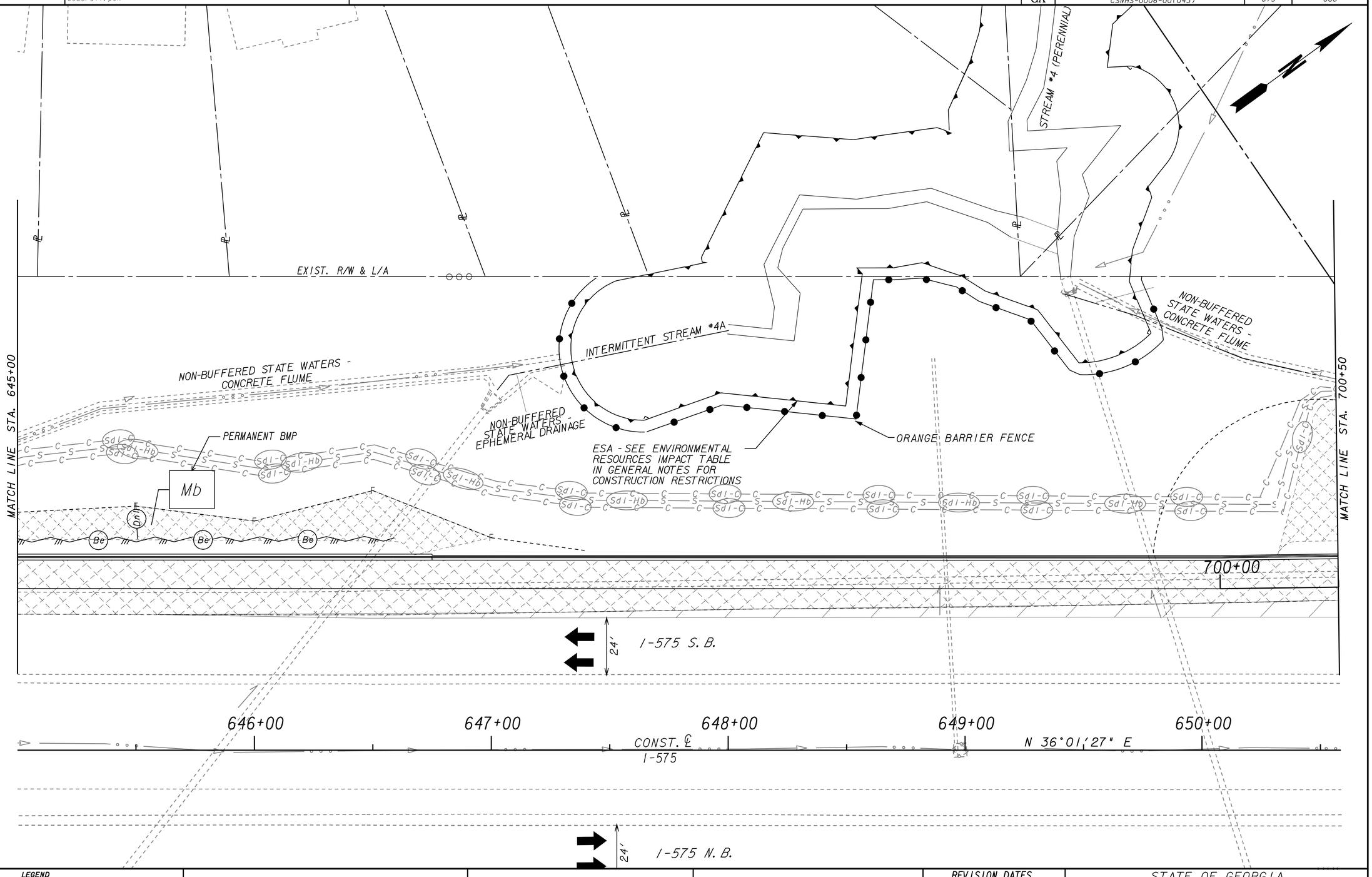
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 639+50 TO STA. 645+00

DRAWING No. 54-049

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	613	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

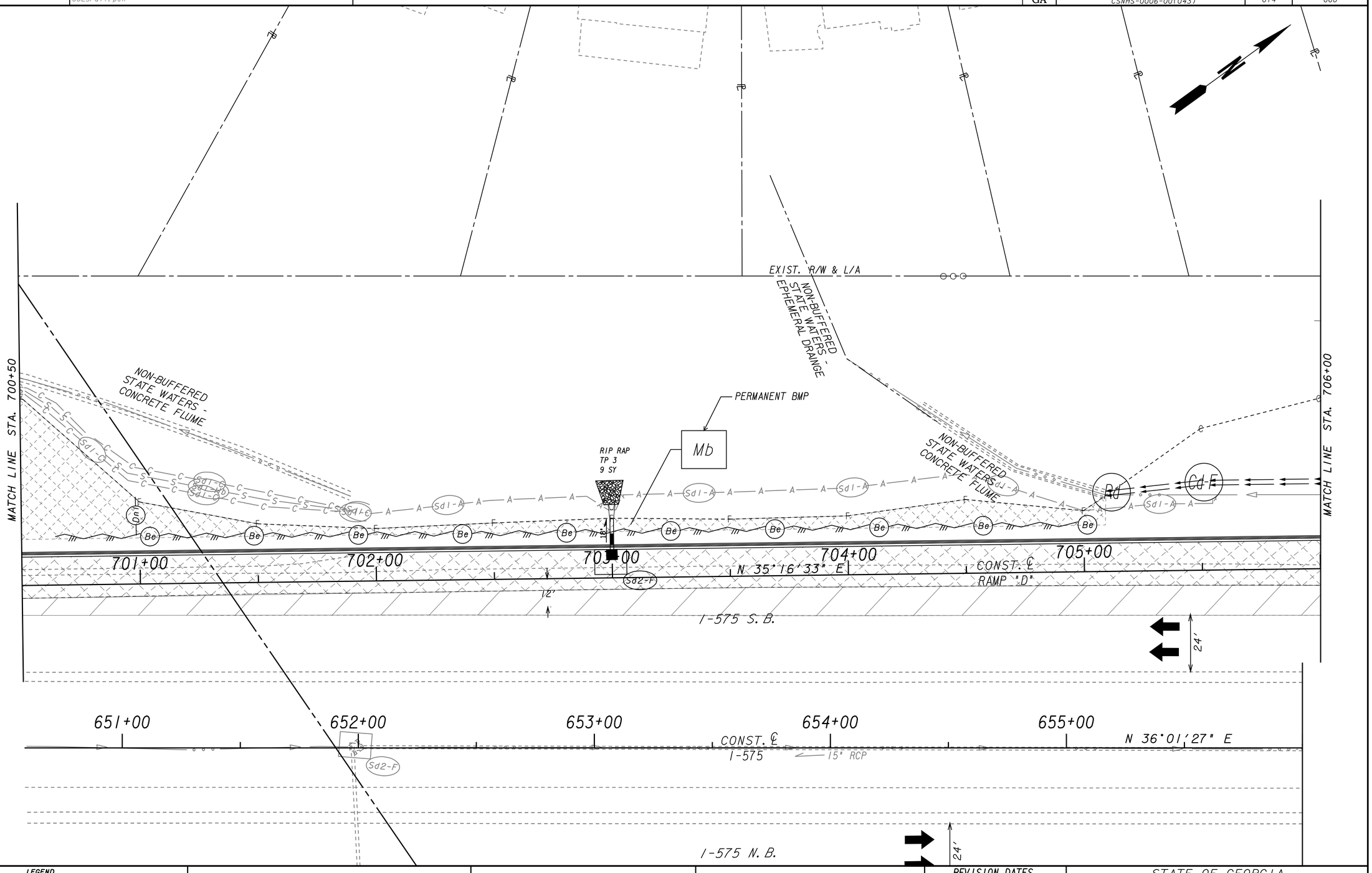
INTERMEDIATE PHASE
I-575 SB AUXILIARY LANE
STA. 645+00 TO STA. 650+50

DRAWING No. 54-050

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	614	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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3595 ENGINEERING DRIVE
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

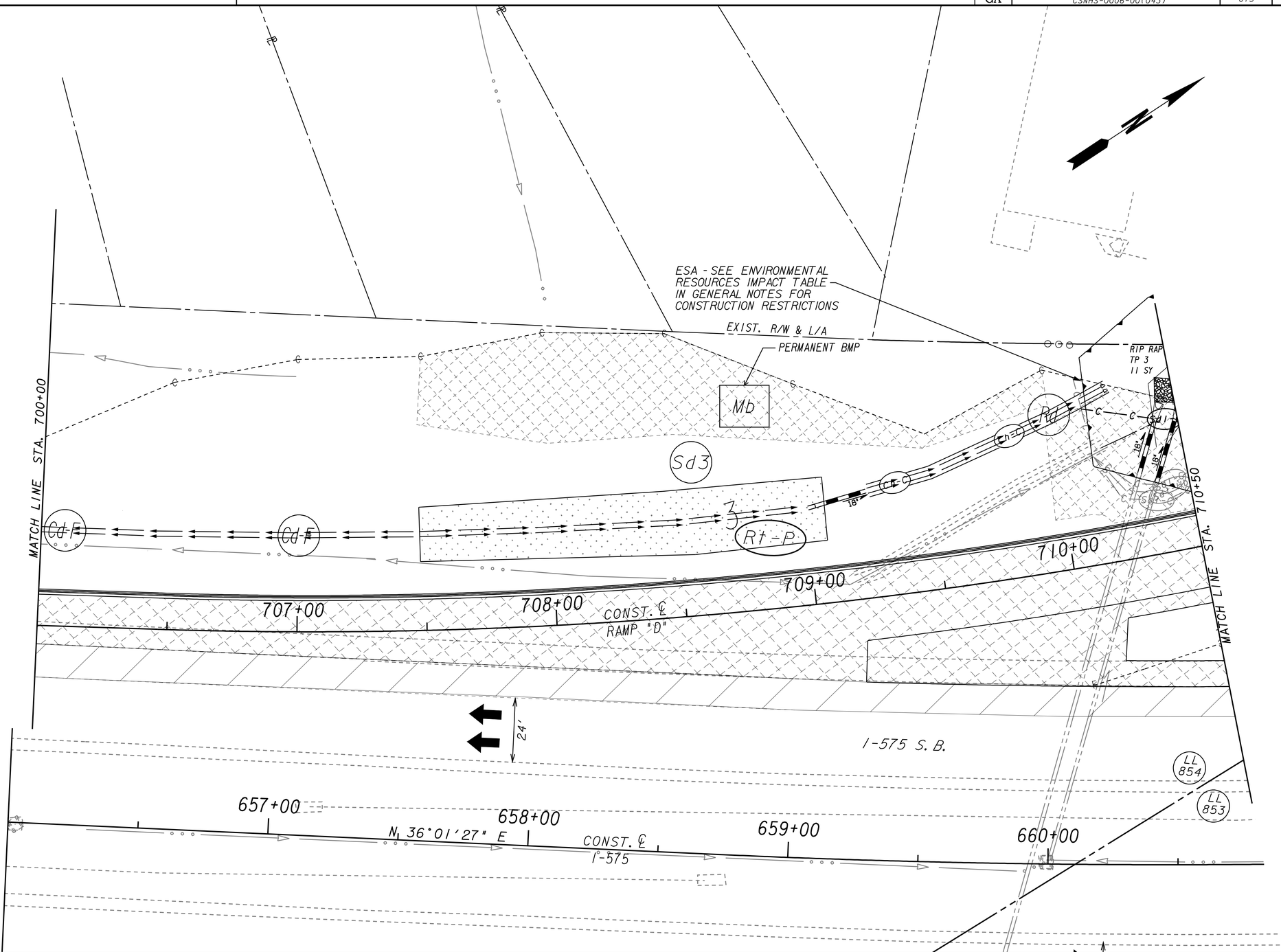
INTERMEDIATE PHASE
I-575 STA. 650+50 TO
SB ENTR. RAMP D STA. 700+00

DRAWING No. 54-051

1/5/2009 GPLN

23-DEC-2010 10:39	TIME$$$	006043ER12-1A	R:\07400004\006043\DGN\006043ER12-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	615	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
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- OPEN LANES OF TRAFFIC

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

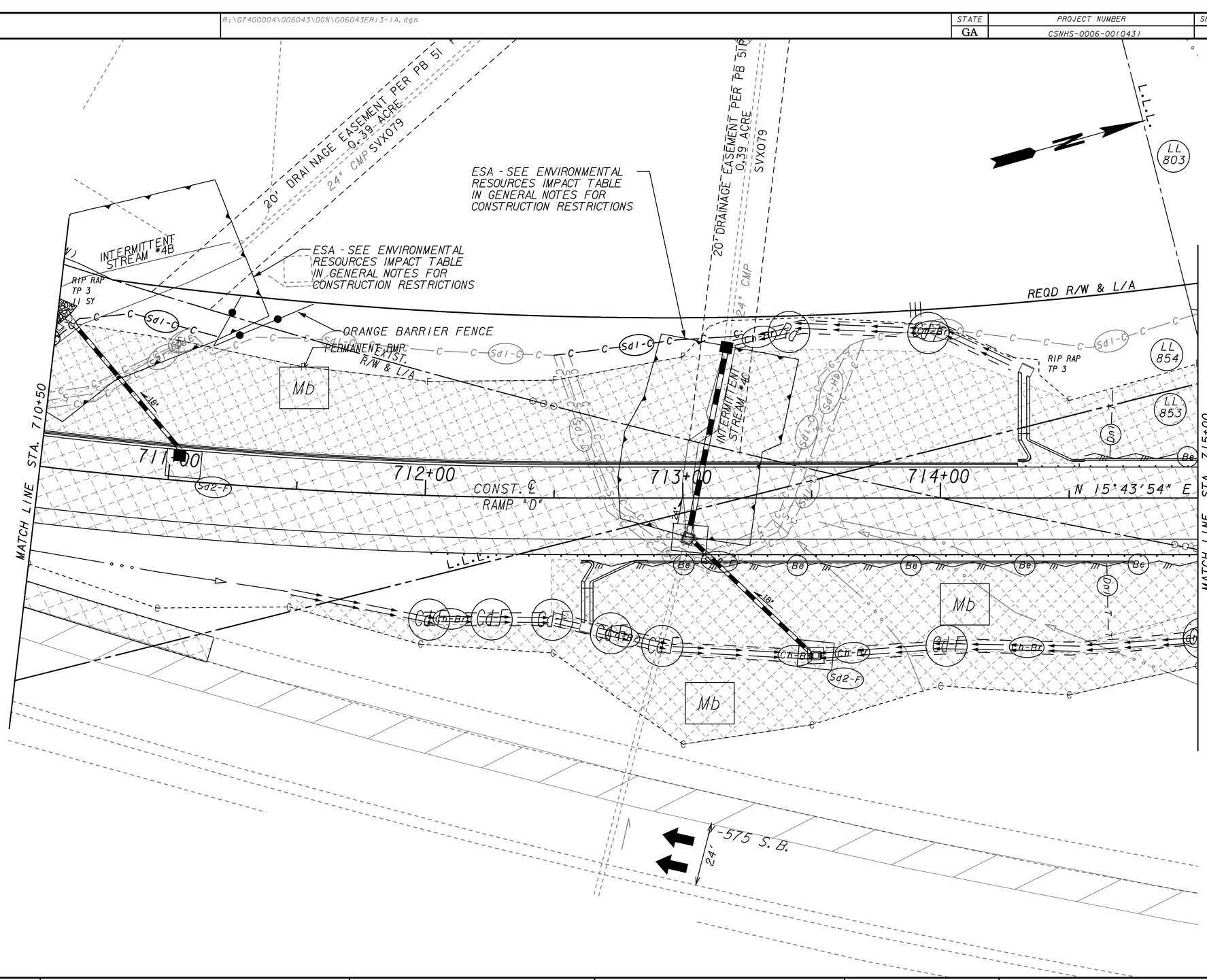
I-575 SB ENTRANCE RAMP D
STA. 700+00 TO STA. 704+50

DRAWING No. 54-052

1/5/2009 GPLN

23-DEC-2010 10:39	TIME***	006043ER13-1A	R:\07400004\006043\DGN\006043ER13-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	616	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		
12/20/10		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

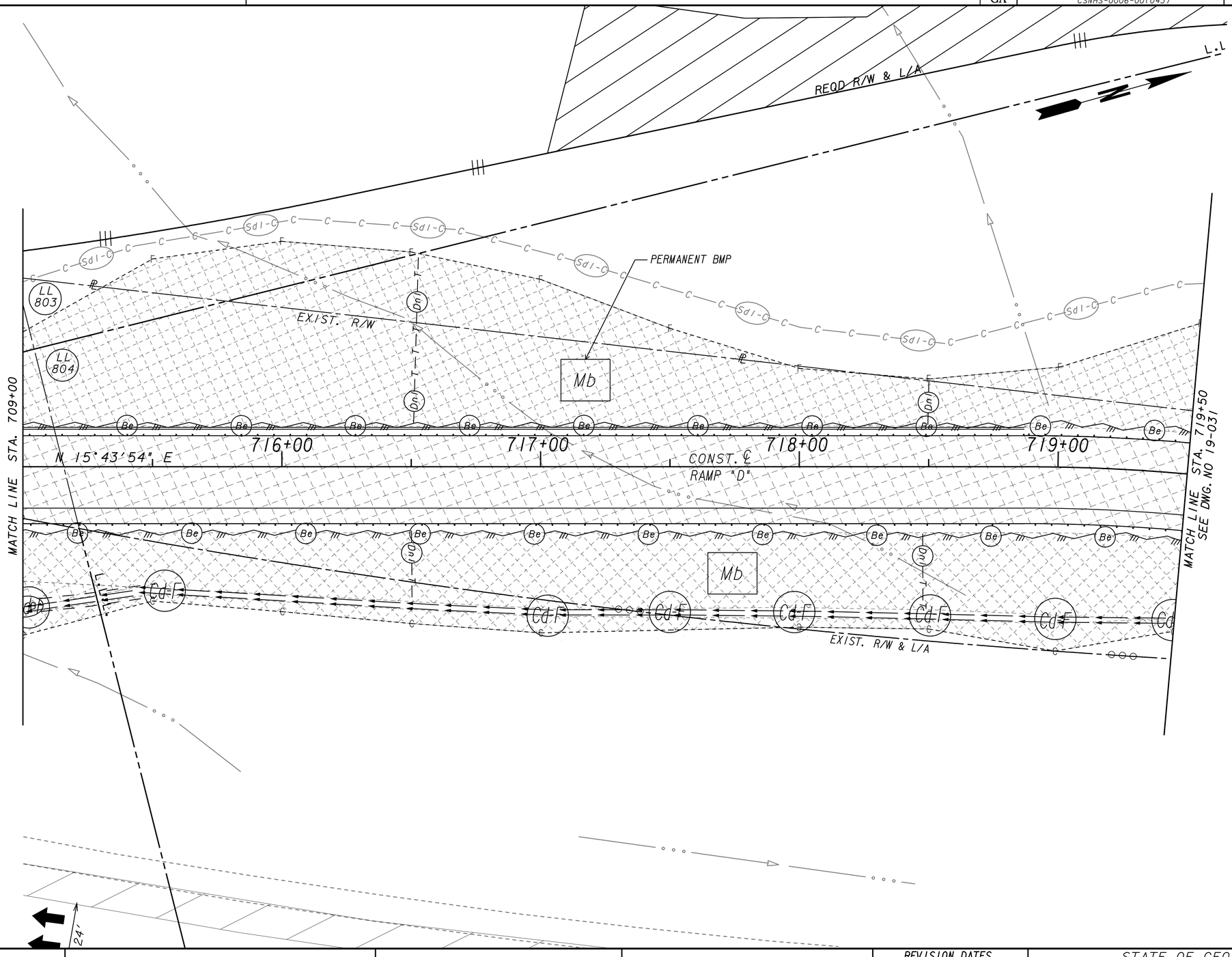
I-575 SB ENTRANCE RAMP D
STA. 704+50 TO STA. 709+00

DRAWING No. 54-053

1/5/2009 GPLN

23-DEC-2010 10:39	TIME$$$	006043ER14-1A	R:\07400004\006043\DGN\006043ER14-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	617	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- OPEN LANES OF TRAFFIC

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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

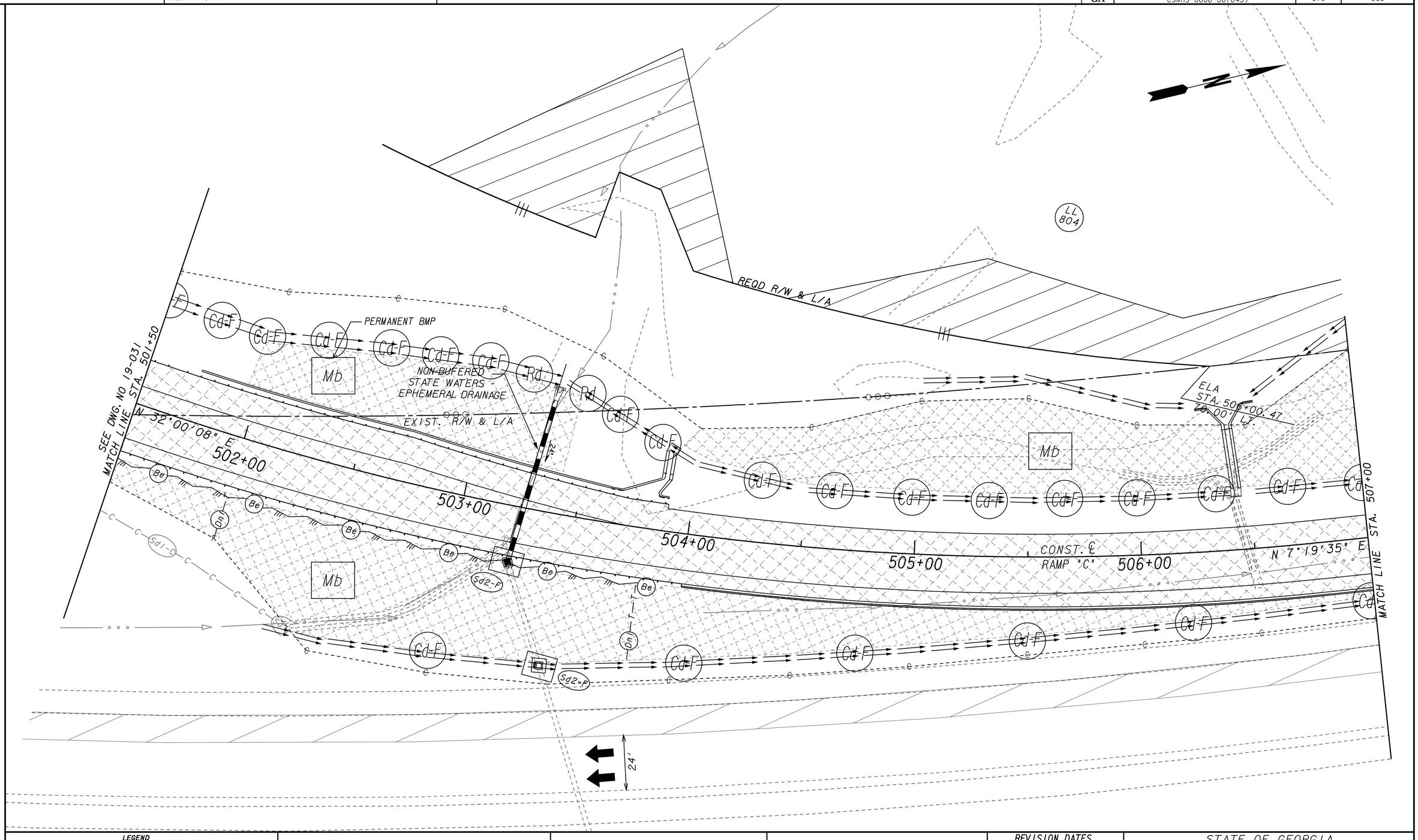
INTERMEDIATE PHASE
I-575 SB ENTRANCE RAMP D
STA. 709+00 TO STA. 713+50

DRAWING No. 54-054

1/5/2009 GPLN

23-DEC-2010 10:40 JParks	TIME\$\$ 006043ER15-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER15-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	618	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
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- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

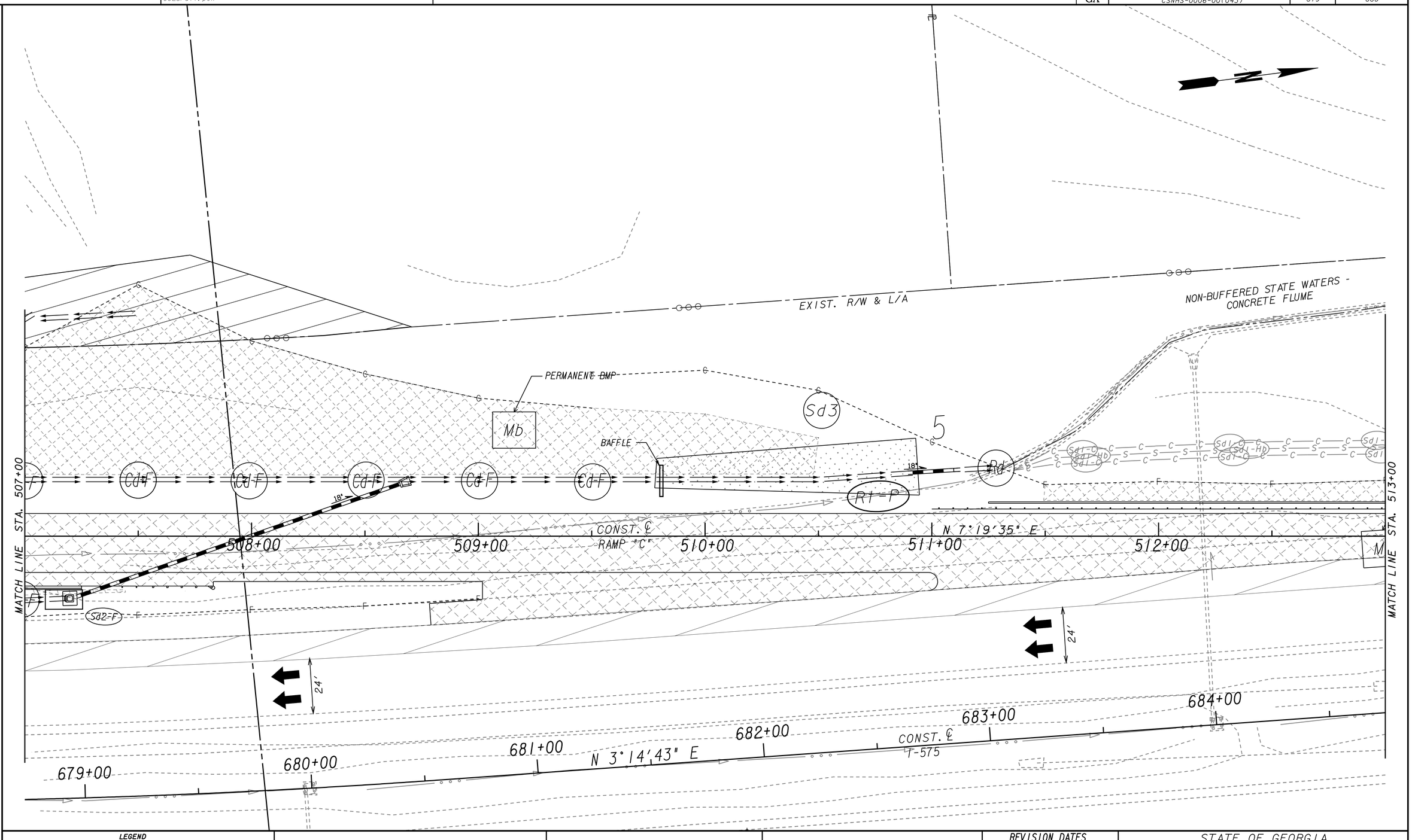
INTERMEDIATE PHASE
I-575 SB EXIT RAMP C
STA. 501+50 TO STA. 507+00

DRAWING No. 54-055

1/5/2009 GPLN

23-DEC-2010 10:40	TIME$$	006043ER16-1A	R:\07400004\006043\DGN\006043ER16-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	619	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 SB EXIT RAMP C
STA. 507+00 TO STA. 513+00

DRAWING No. 54-056

1/5/2009 GPLN

23-DEC-2010 10:40 JParks	TIME$$$ 006043ER17-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER17-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	620	668

RELEASED FOR CONSTRUCTION 12/02/10

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

INTERMITTENT STREAM #7

EXIST. R/W & L/A

NON-BUFFERED STATE WATERS - CONCRETE FLUME

ORANGE BARRIER FENCE

END RAMP "C" STA. 516+03.74

STA. 513+00

MATCH LINE

PERMANENT BMP

N 7°19'35" E

514+00

CONST. ℄ RAMP "C"

515+00

516+00

24'

Mb

I-575 S.B.

PERMANENT BMP

685+00

686+00

687+00

688+00

689+00

690+00

CONST. ℄ I-575

N 3°14'43" E

I-575 N.B.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

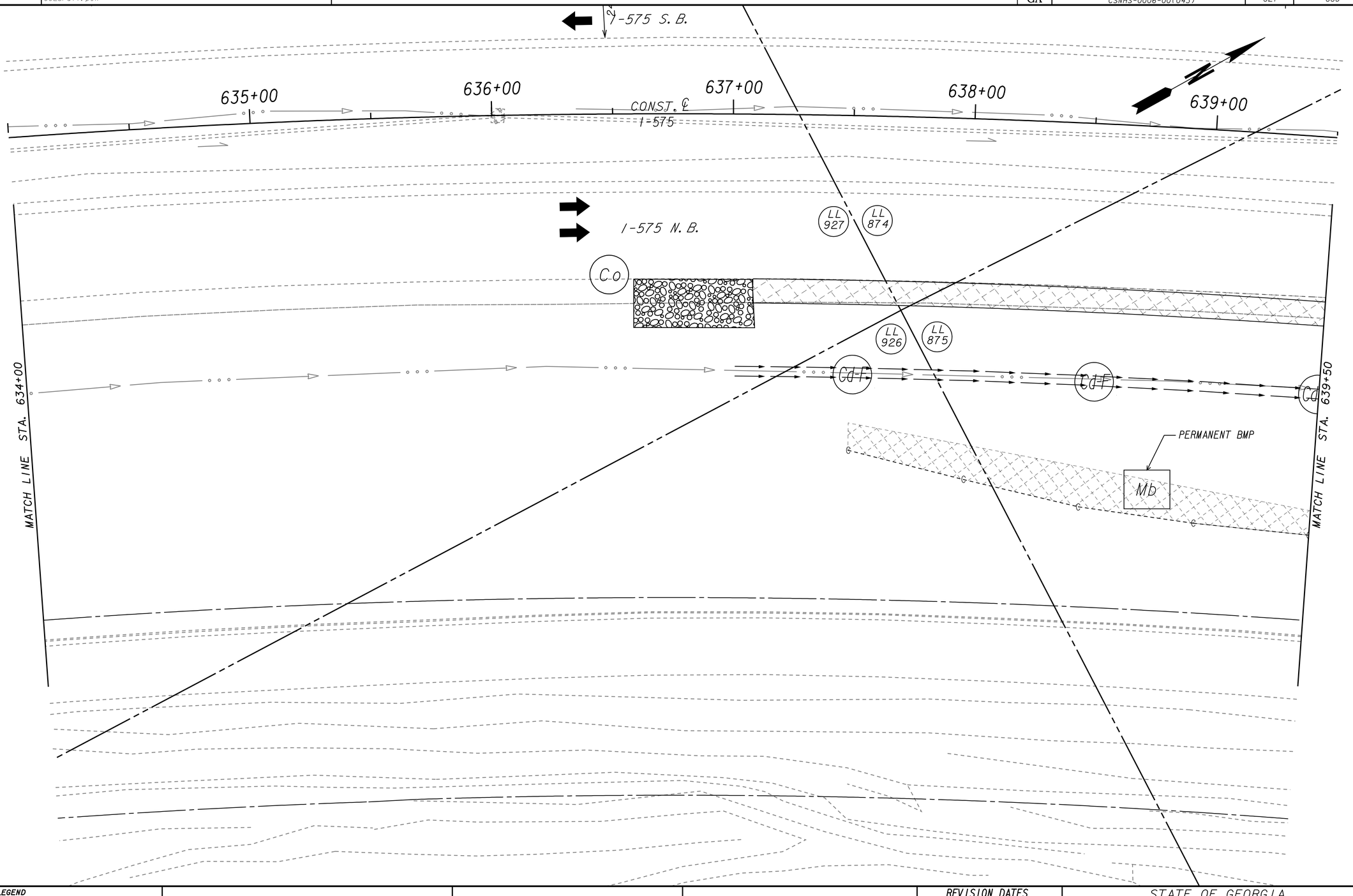
I-575 SB EXIT RAMP C
STA. 513+00 TO END CONST.

DRAWING No. 54-057

1/5/2009 GPLN

23-DEC-2010 10:40 JParks	TIME$$$ 006043ER18-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER18-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	621	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 NB AUXILIARY LANE
BEGIN CONSTR. TO STA. 639+50

DRAWING No. 54-058

1/5/2009 GPLN

23-DEC-2010 10:40 JParks	TIME\$\$\$ 006043ER19-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER19-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	622	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S. B.

24'

640+00 641+00 642+00 643+00 644+00

N 36°01'27" E CONST. ℄ I-575

I-575 N. B.

MATCH LINE STA. 639+50

MATCH LINE STA. 645+50

Cd-F Cd-F Cd-F

NON-BUFFERED STATE WATERS CONCRETE FLUME

Rd-F

Sdl-C STAND PIPE SEE DRAWING NO. 56-00J FOR DETAILS

BAFFLE

Rt-P

BAFFLE

Sd3

NON-BUFFERED STATE WATERS EPHEMERAL DRAINAGE

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

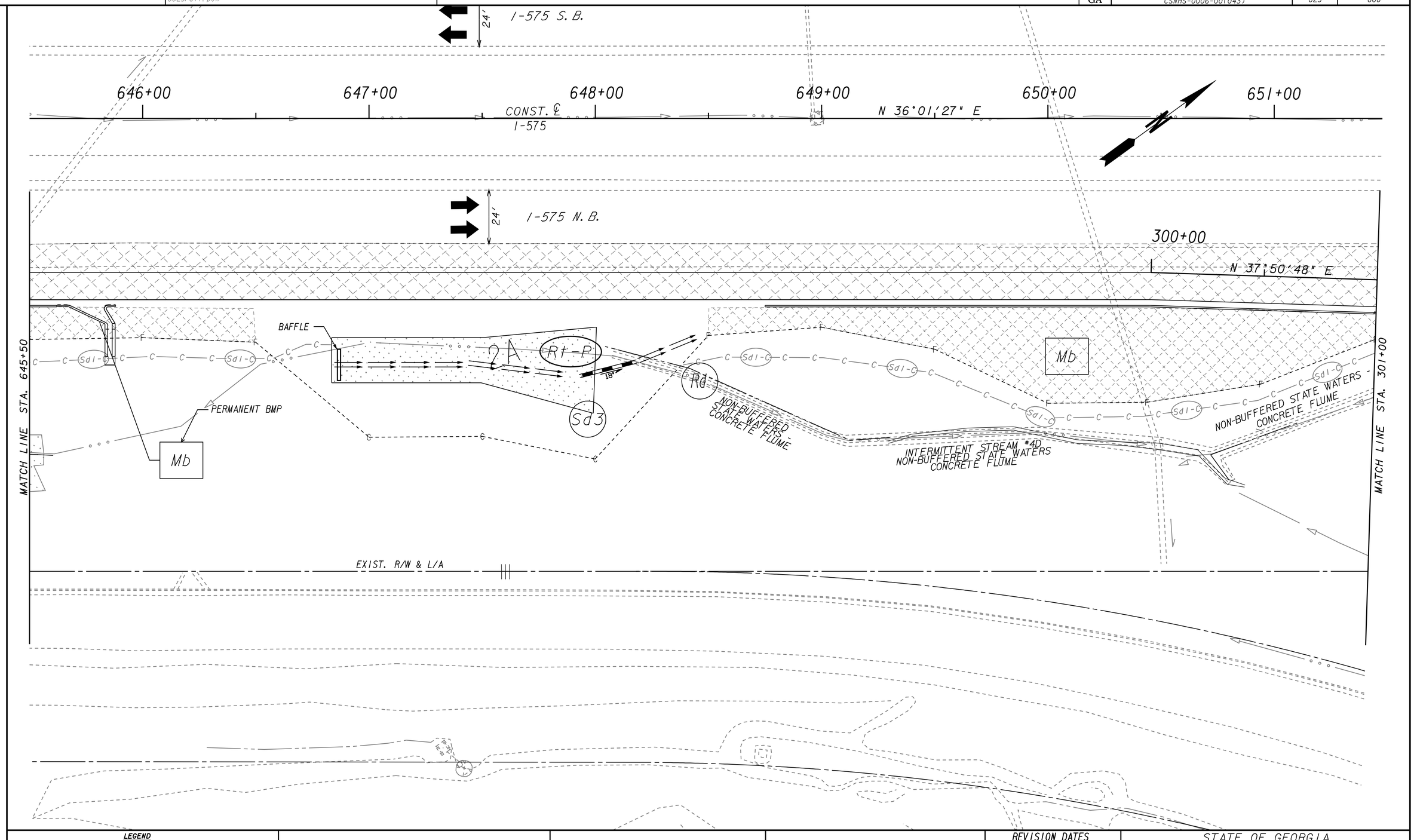
INTERMEDIATE PHASE
I-575 NB AUXILIARY LANE
STA. 639+50 TO STA. 645+50

DRAWING No. 54-059

1/5/2009 GPLN

23-DEC-2010 10:40 JParks	TIME*** 006043ER20-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER20-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	623	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

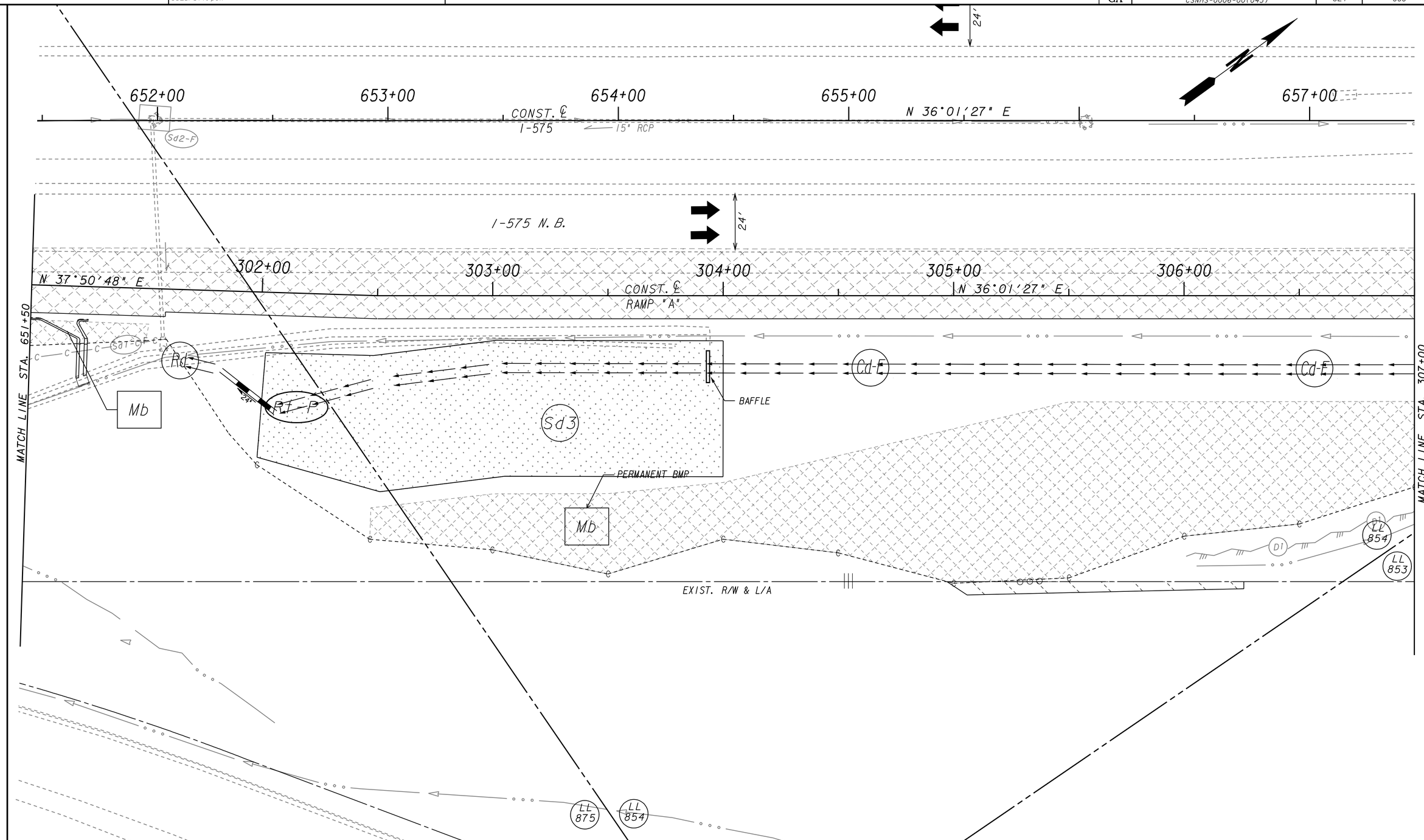
I-575 NB AUXILIARY LANE
STA. 645+50 TO STA. 651+50

DRAWING No. 54-060

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	624	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

I-575 NB AUXILIARY LANE
STA. 651+50 TO STA. 657+50

DRAWING No. 54-061

1/5/2009 GPLN

23-DEC-2010 10:41 JParks	TIME### 8825Full.pen	006043ER22-1A	R:\07400004\006043\DGN\006043ER22-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	CSNHS-0006-00(043)	625	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

24'

LL 854

LL 853

658+00 659+00 660+00 661+00 662+00 663+00

N 36°01'27" E CONST. ℄ I-575

I-575 N.B. L.L.L.

24'

MATCH LINE STA. 307+00

308+00 309+00 310+00 311+00 312+00

N 36°01'27" E CONST. ℄ RAMP "A"

N 44°14'14" E

MATCH LINE STA. 313+00

CdF

Sd1-C

RETROFIT TO BE SLOTTED BOARD TYPE, HEIGHT = 4FT

Rt.-B.

Sd2-F

18"

D1

PERMANENT BMP

Mb

Sd3

NON-BUFFERED STATE WATERS

BAFFLE

EXIST. R/W & L/A

℄

LL 854

LL 853

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

I-575 STA. 657+50 TO NB EXIT RAMP A STA. 305+50

DRAWING No. 54-062

1/5/2009 GPLN

23-DEC-2010 10:41 JParks	TIME$$$ 006043ER23-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER23-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	626	668

RELEASED FOR CONSTRUCTION 12/02/10

664+00 CONST. ℄ I-575

24'

LL 804

LL 853

L.L.L.

EXIST. R/W & L/A

Mb

Cd-F

Sd1-A

305+50 STA. MATCH LINE

314+00

315+00

316+00

317+00

CONST. ℄ RAMP "A"

N 44° 14' 14" E

310+50 STA. MATCH LINE

24'

NON-BUFERED STATE WATERS EPHEMERAL DRAINAGE

PERMANENT BMP

REQD R/W & L/A

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 NB EXIT RAMP A
STA. 305+50 TO STA. 310+50

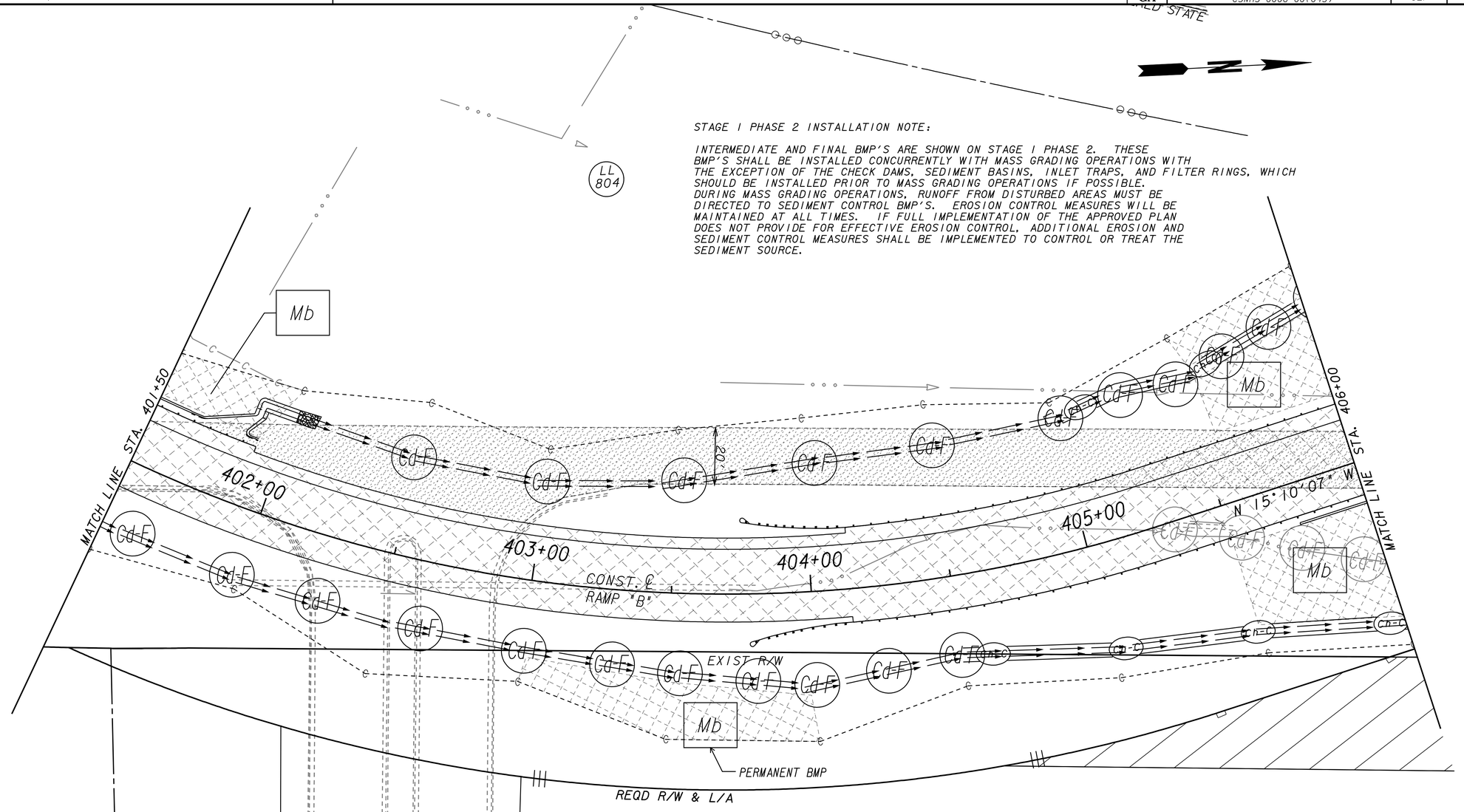
DRAWING No. 54-063

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STAGE 1 PHASE 2 INSTALLATION NOTE:

INTERMEDIATE AND FINAL BMP'S ARE SHOWN ON STAGE 1 PHASE 2. THESE BMP'S SHALL BE INSTALLED CONCURRENTLY WITH MASS GRADING OPERATIONS WITH THE EXCEPTION OF THE CHECK DAMS, SEDIMENT BASINS, INLET TRAPS, AND FILTER RINGS, WHICH SHOULD BE INSTALLED PRIOR TO MASS GRADING OPERATIONS IF POSSIBLE. DURING MASS GRADING OPERATIONS, RUNOFF FROM DISTURBED AREAS MUST BE DIRECTED TO SEDIMENT CONTROL BMP'S. 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.



NOTE:
1. ALL SLOPES 2.5:1 OR STEEPER REQUIRE EROSION CONTROL MATS.
2. TEMPORARY SLOPE DRAINS TO BE PLACED AT INTERVALS OF 500' ON A 0 TO 2 PERCENT GRADE AND SPACED 200' FOR STEEPER GRADES AS NEEDED.
3. 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 TYPICAL 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.

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE

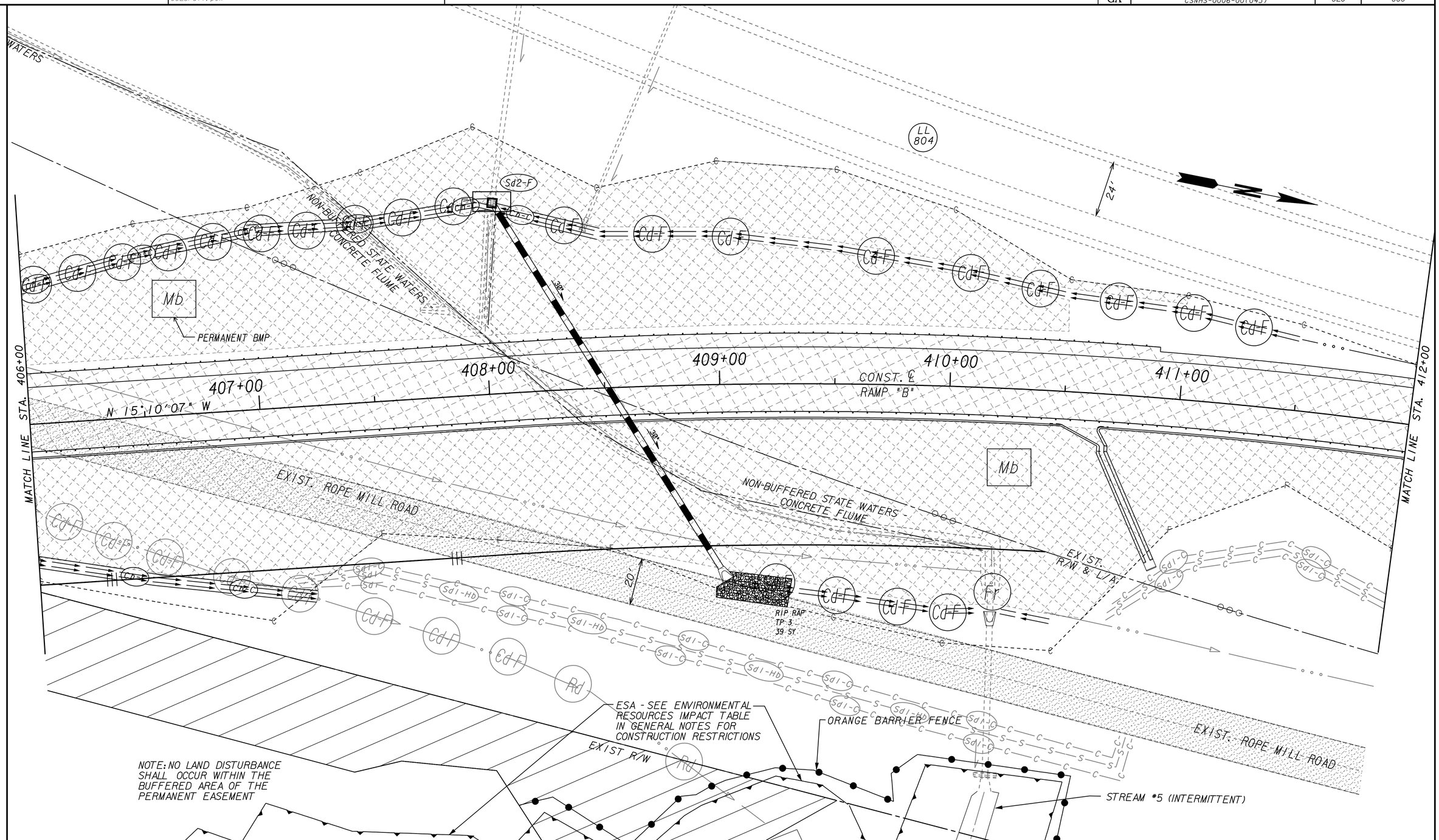
I-575 NB ENTRANCE RAMP B
STA. 401+50 TO STA. 406+00

DRAWING No. 54-064

1/5/2009 GPLN

23-DEC-2010 10:41	TIME$$$	006043ER25-1B	R:\07400004\006043\DGN\006043ER25-1B.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	628	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

1/5/2009 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 NB ENTRANCE RAMP B
STA. 406+00 TO STA. 412+00

DRAWING No. 54-065

23-DEC-2010 10:41 JParks	TIME$$$ 006043ER26-1B 8825Full.pen	R:\07400004\006043\DGN\006043ER26-1B.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	629	668

RELEASED FOR CONSTRUCTION 12/02/10

680+00 681+00 682+00 683+00 684+00 685+00

N 3°14'43" E

CONST. ℄ I-575

I-575 N.B.

24' 24' 24' 24'

MATCH LINE STA. 412+00

413+00 414+00 415+00 416+00 417+00

N 2°00'09" E

CONST. ℄ RAMP "B"

MATCH LINE STA. 418+00

MD

PERMANENT BMP

Sd2-F

Cd-HD

NON-BUFFERED STATE WATERS

EPHEMERAL DRAINAGE

18'

WETLAND F

Sd1-C

Sd1-HD

Ch-C

Cd-F

RI-P

Sd2-F

Sd3

EXIST. ROPE MILL ROAD

20'

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

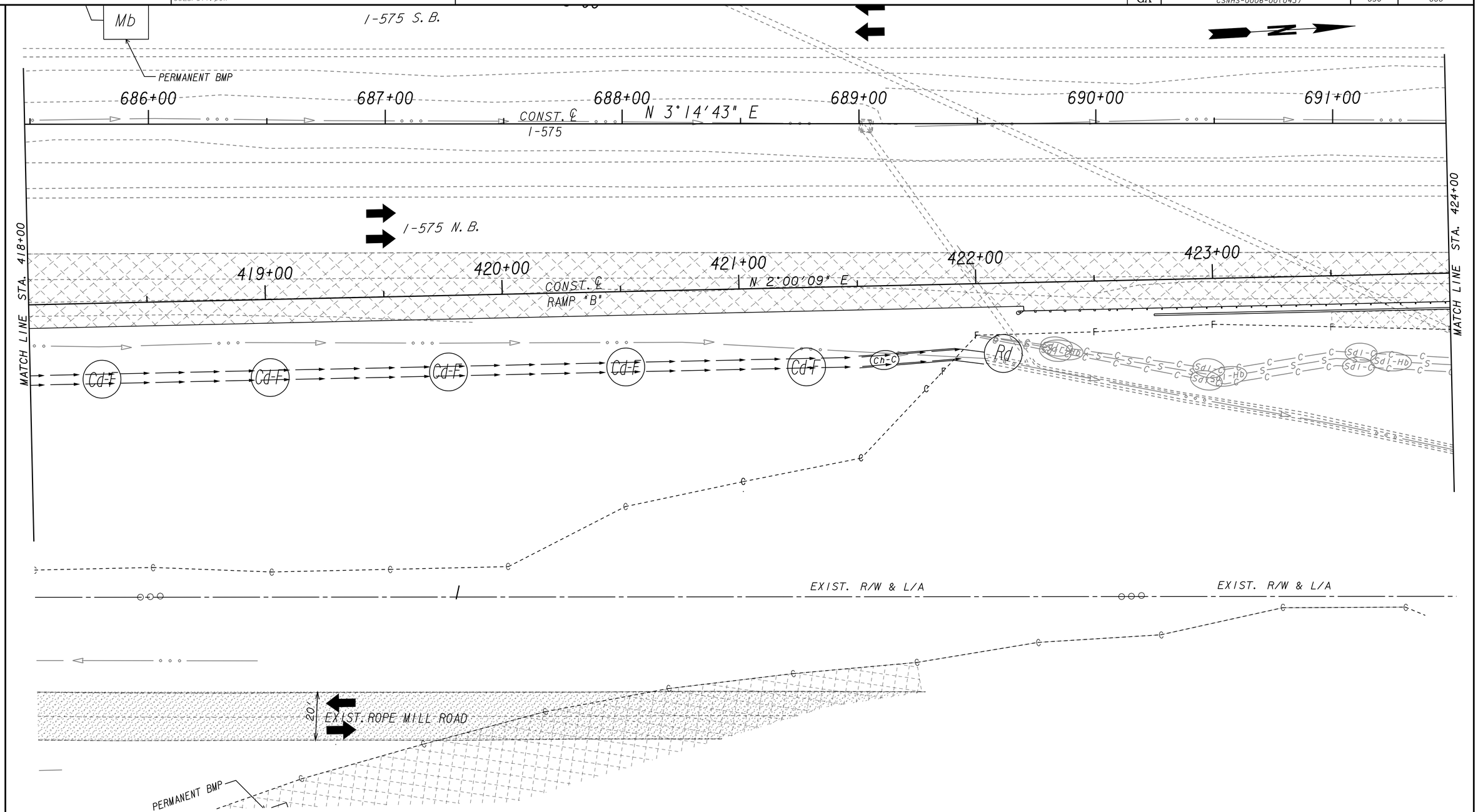
BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 NB ENTRANCE RAMP B
STA. 412+00 TO STA. 418+00

DRAWING No. 54-066

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
I-575 NB ENTRANCE RAMP B
STA. 418+00 TO STA. 424+00

DRAWING No. 54-067

1/5/2009 GPLN

23-DEC-2010 10:42 JParks	TIME$$$ 006043ER28-1B 8825Full.pen	R:\07400004\006043\DGN\006043ER28-1B.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	631	668

RELEASED FOR CONSTRUCTION 12/02/10

I-575 S.B.

692+00 693+00 694+00 695+00 696+00 697+00

CONST. ℄ I-575

N 3°14'43" E

I-575 N.B.

MATCH LINE STA. 418+00

425+00 426+00 427+00

N 2°00'09" E

CONST. ℄ RAMP "B"

Co END RAMP "B" STA. 427+96.04

Rd

Mb

PERMANENT BMP

ORANGE BARRIER FENCE

INTERMITTENT STREAM #7

EXIST. R/W & L/A

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

ORANGE BARRIER FENCE

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

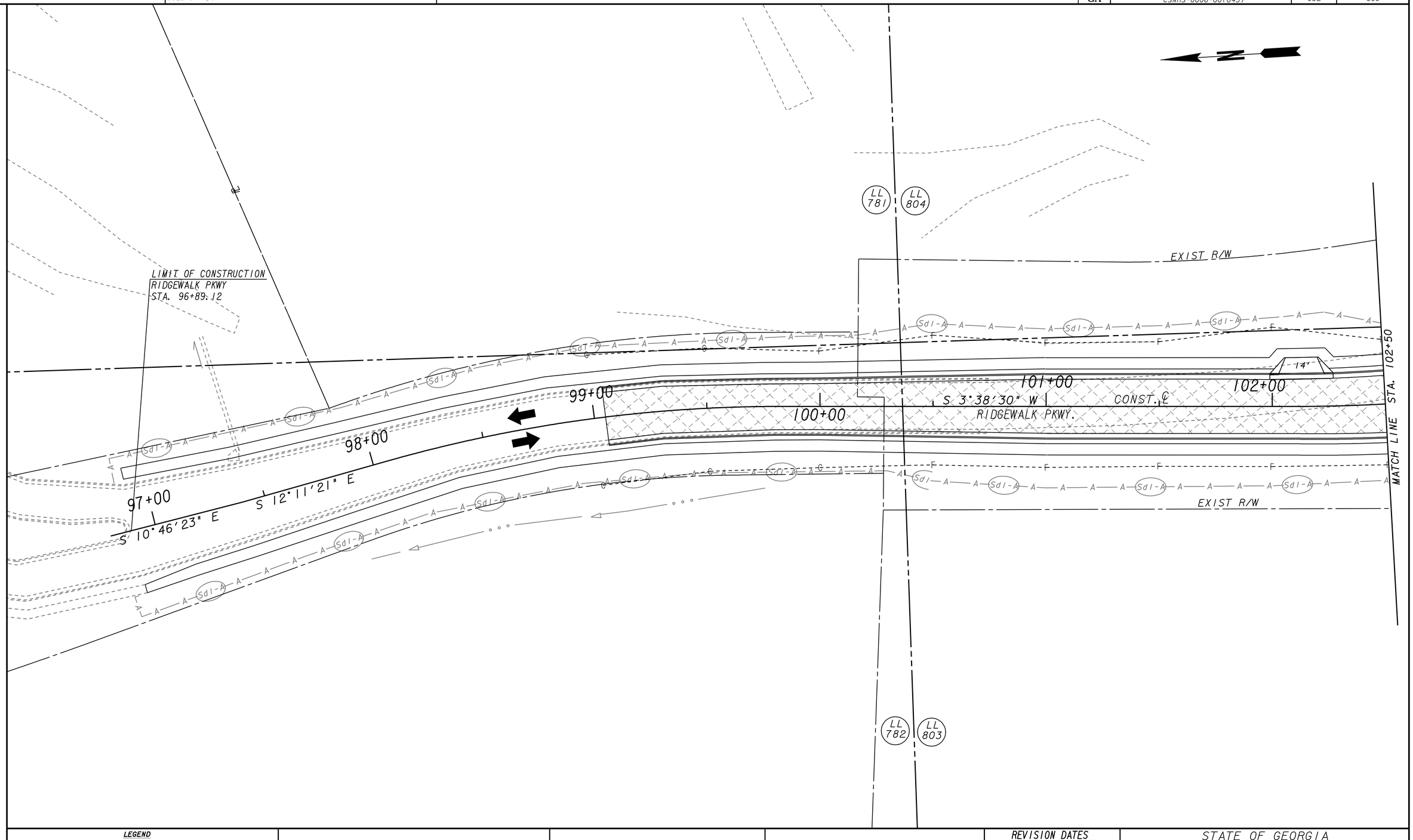
INTERMEDIATE PHASE
I-575 NB ENTRANCE RAMP B
STA. 418+00 TO END CONST.

DRAWING No. 54-068

1/5/2009 GPLN

23-DEC-2010 10:42 JParks	TIME$$$ 006043ER29-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER29-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	632	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

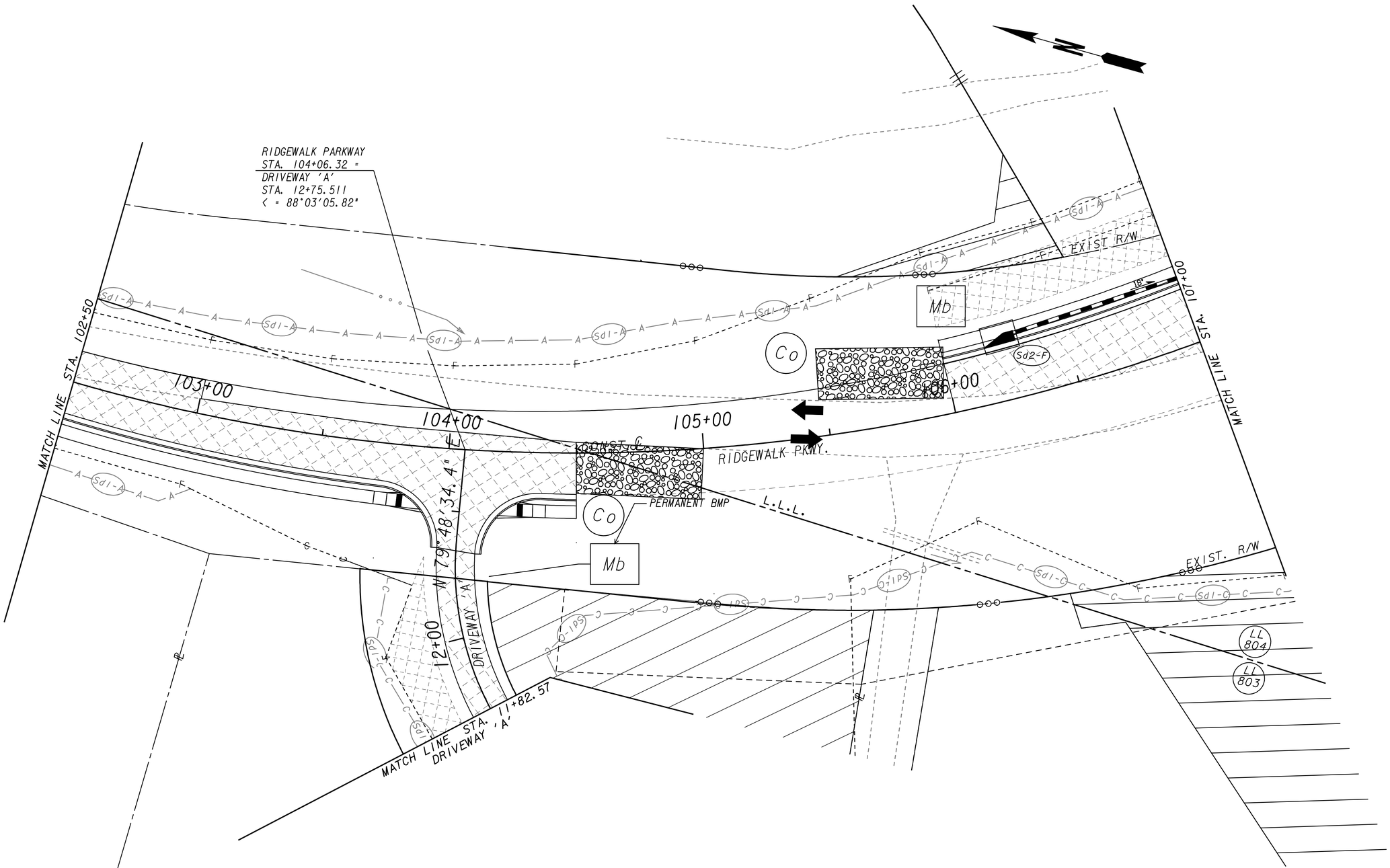
INTERMEDIATE PHASE
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 54-069

1/5/2009 GPLN

23-DEC-2010 10:42 JParks	TIME\$\$\$ 006043ER30-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER30-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	633	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

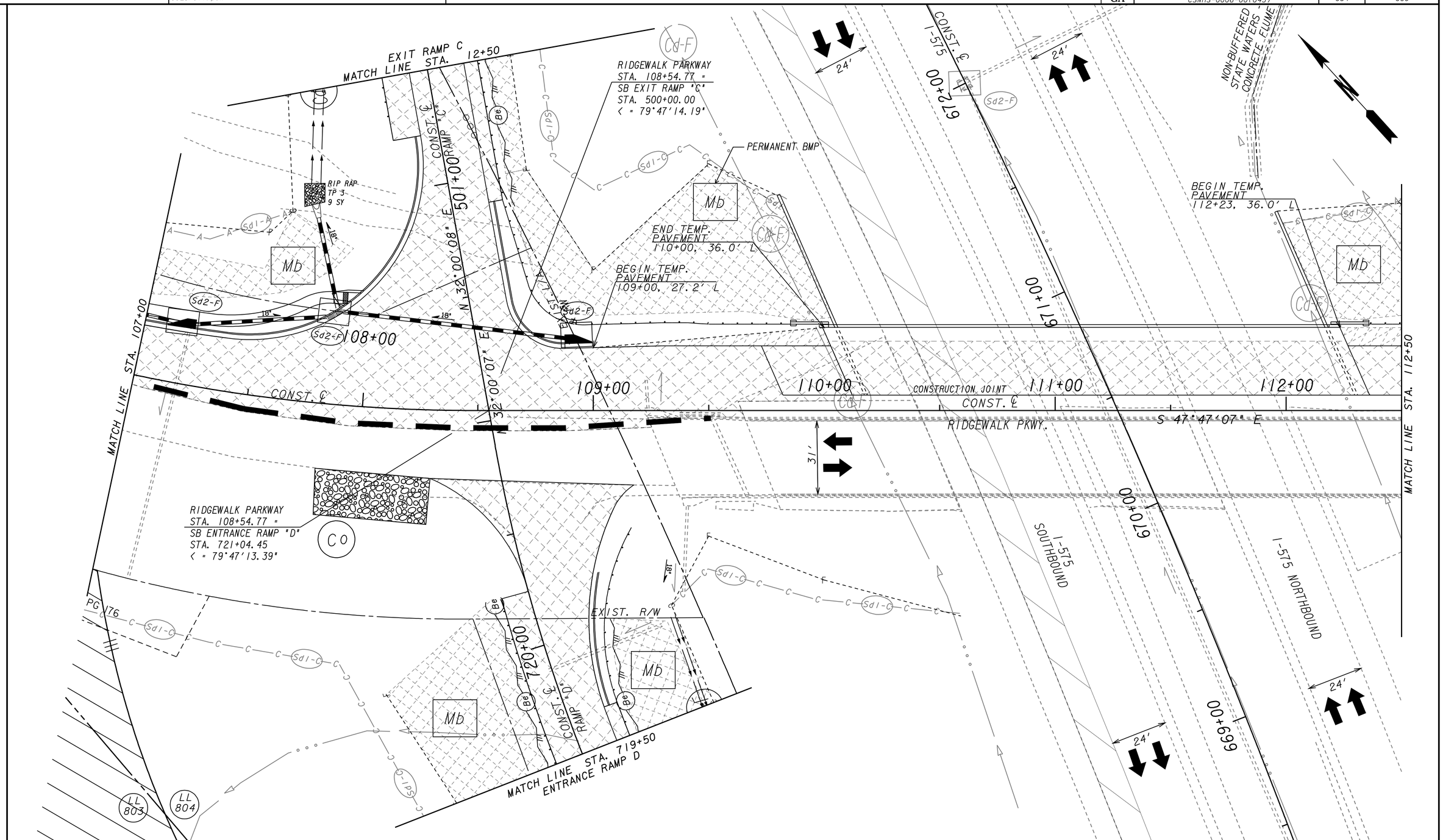
BMP LOCATION DETAILS

INTERMEDIATE PHASE
RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 54-070

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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3595 ENGINEERING DRIVE
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 54-071

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

ENTRANCE RAMP B
MATCH LINE STA. 401+50

RAMP "B" CONST. ℄

PERMANENT BMP
RIP RAP
TP 3
8 SY

Mb

END TEMP. PAVEMENT
113+50, 28.0' L

401+00

24'

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00
∠ = 89°48'22.75"

ACCESS EASEMENT

REQD R/W & L/A

LL 804

LL 853

EXIST R/W

MATCH LINE STA. 112+50

113+00

114+00

115+00

CONST. ℄

S 47°11'07" E

N 42°01'19" E

116+00

RIDGEWALK PKWY.

117+00

118+00

MAINTAIN ACCESS TO D/W
DURING CONSTRUCTION

S 46°36'07" E

MATCH LINE STA. 118+50

319+00

EXIST R/W

REQD L/A

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65
∠ = 87°58'38.76"

CONST. ℄ RAMP "A"

MATCH LINE STA. 318+00
EXIT RAMP A

Cd-F

Md

Co

Sd1-A

Sd1-C

Sd1-F

Sd2-F

18'

24'

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 54-072

1/5/2009 GPLN

23-DEC-2010 10:43 JParks	TIME$$$ 006043ER33-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER33-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	636	668

RELEASED FOR CONSTRUCTION 12/02/10

RELOC. ROPE MILL ROAD
MATCH LINE STA. 201+50

LL 804 — L.L.L. — LL 853

Mb

PERMANENT BMP

201+00 RELOC. ROPE MILL RD

N 30°36'07" E

REQD R/W

EXIST R/W

EXIST R/W

CURB & GUTTER, F/L

CURB & GUTTER, F/L

MATCH LINE STA. 118+50

119+00

120+00

121+00

122+00

123+00

124+00

S 46°36'07" E

S 48°00'12" E

CONST. ℄
RIDGEWALK PKWY.

39'

18"

18"

18"

Co

Sd1-F

Sd2-F

Sd1-A

Sd1-C

Sd2-F

EXIST R/W

WOODSTOCK PKWY.

34'

TIE TO EXIST
RIDGEWALK PKWY
STA. 122+00.00

LL 852

LIMIT OF CONSTRUCTION
RIDGEWALK PKWY
STA. 126+50.00

EXIST R/W

LL 853

L.L.L.

MANHOLE, TELEPHONE, TOP
984.10

RIDGEWALK PARKWAY
STA. 121+22.79=
RELOC. ROPE MILL ROAD
STA. 200+00.00
< = 78°06'05.93"

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

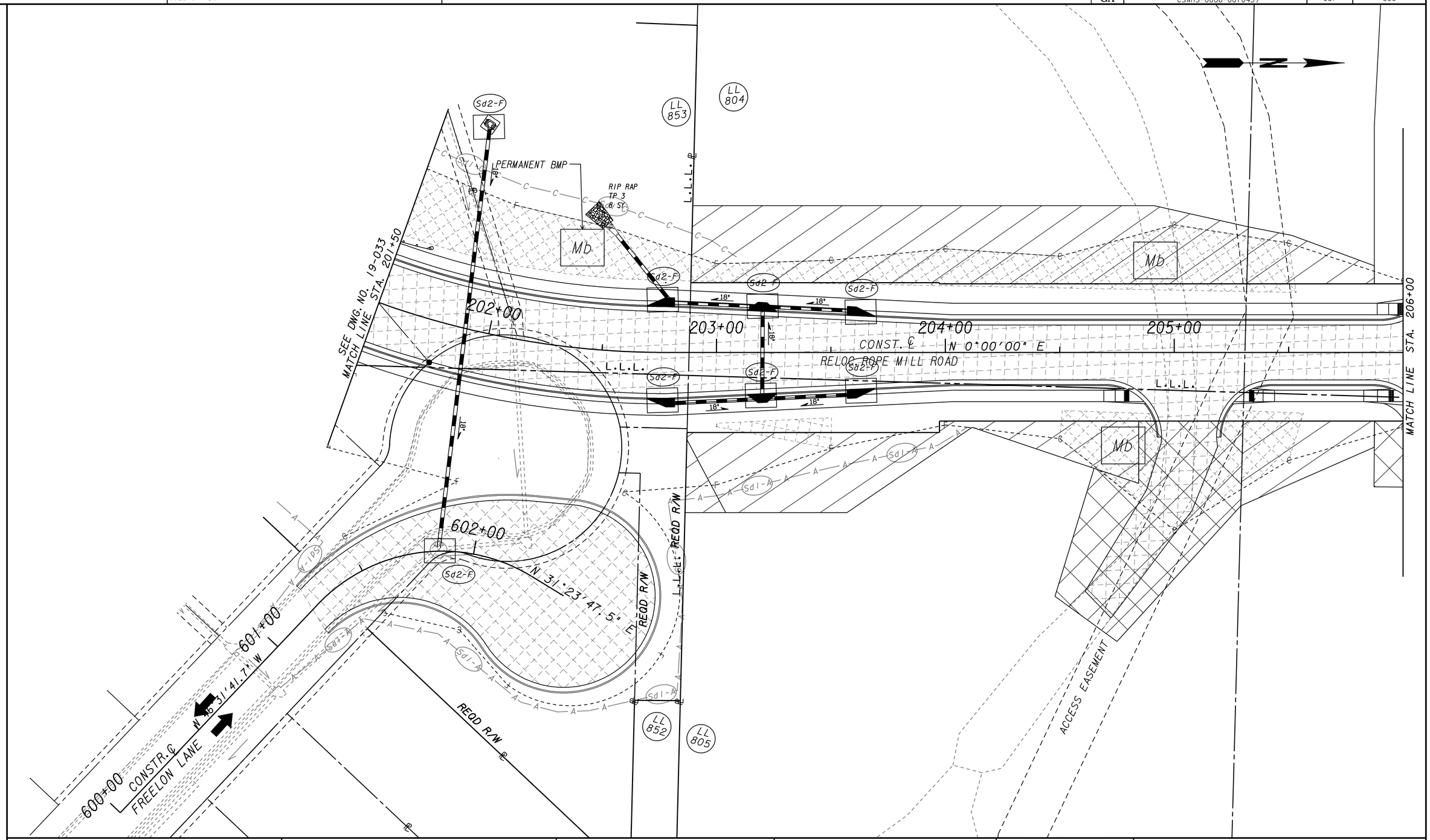
INTERMEDIATE PHASE
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 54-073

1/5/2009 GPLN

23-DEC-2010 10:43 JParks	TIME*** 006043ER34-1A 8825Full.pen	R:\07400004\006043\DGN\006043ER34-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	637	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

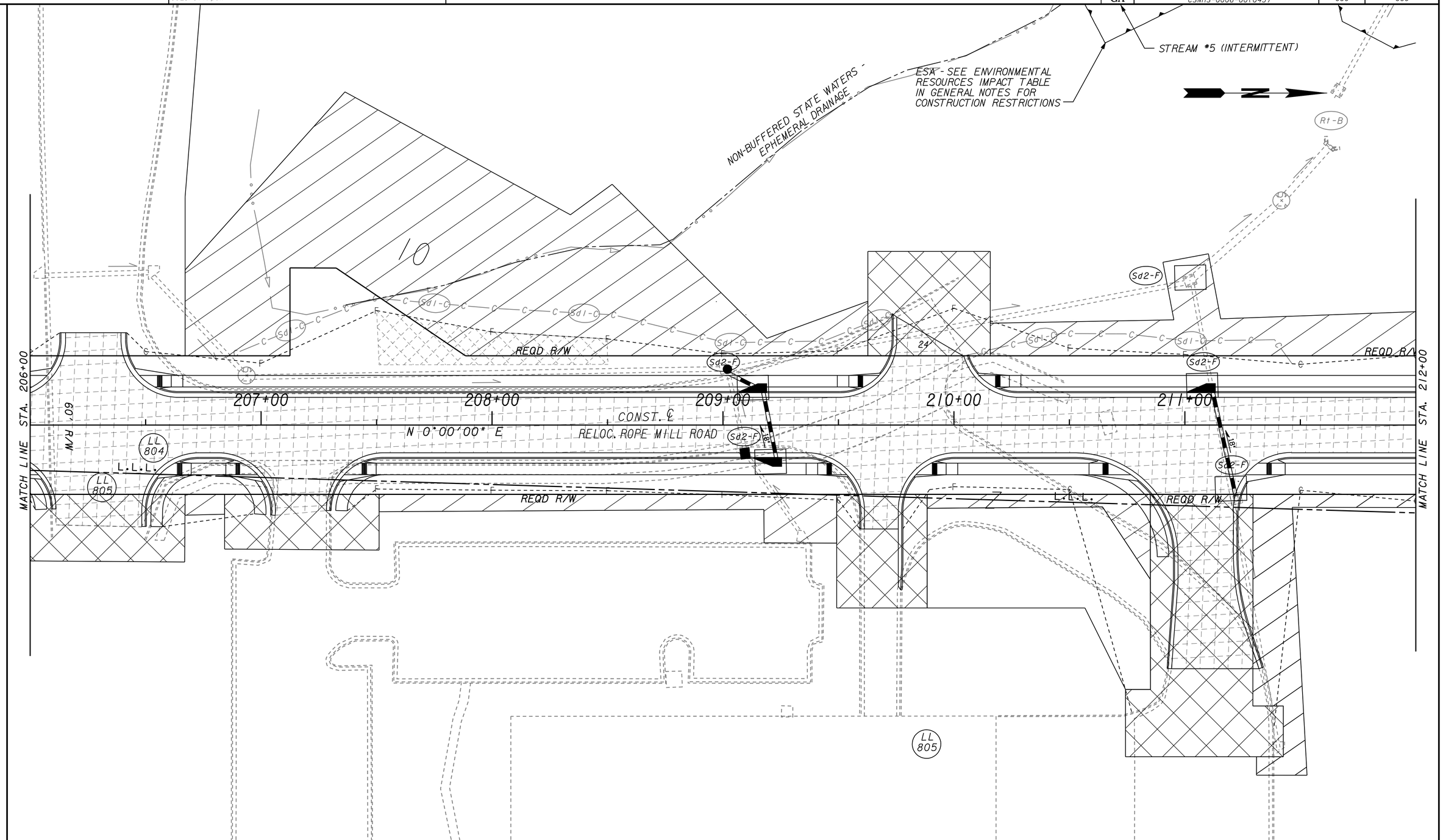
INTERMEDIATE PHASE
RELOC. ROPE MILL ROAD
STA. 201+50 TO STA. 206+00

DRAWING No. 54-074

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	638	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
RELOC. ROPE MILL ROAD
STA. 206+00 TO STA. 212+00

DRAWING No. 54-075

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STREAM #5 (INTERMITTENT)

ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS

N

L.L.L.

LL 804

LL 781

LL 805

LL 780

PERMANENT BMP

MB

REQD R/W

Sd1-C

Sd1-Hb

Sd2-F

18'

MATCH LINE STA. 212+00

MATCH LINE STA. 217+00

213+00

214+00

215+00

216+00

N 0°00'00" E CONST. ℄

RELOC. ROPE MILL ROAD

℄

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
RELOC. ROPE MILL ROAD
STA. 212+00 TO STA. 217+00

DRAWING No. 54-076

1/5/2009 GPLN

23-DEC-2010 10:43	TIME***	006043ER37-1A	R:\07400004\006043\DGN\006043ER37-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	640	668

RELEASED FOR CONSTRUCTION 12/02/10

ESA-25' STREAM BUFFER
STREAM #5 (INTERMITTENT)
INTERMITTENT STREAM #5A
STREAM #5 (PERENNIAL)
ESA-25' STREAM BUFFER
ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS
EXIST R/W
BAFFLE
BAFFLE
PERMANENT BMP
MATCH LINE STA. 217+00
REQD R/W
218+00
219+00
220+00
221+00
N 26°47'39" W
CONST. ℄ OC. ROPE MILL ROAD
STREAM #5 (PERENNIAL)
TEMPORARY ORANGE BARRIER FENCE
TEMPORARY ORANGE BARRIER FENCE
ESA - SEE ENVIRONMENTAL RESOURCES IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS
L.L.L.
℄

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
RELOC. ROPE MILL ROAD
STA. 217+00 TO STA. 222+00

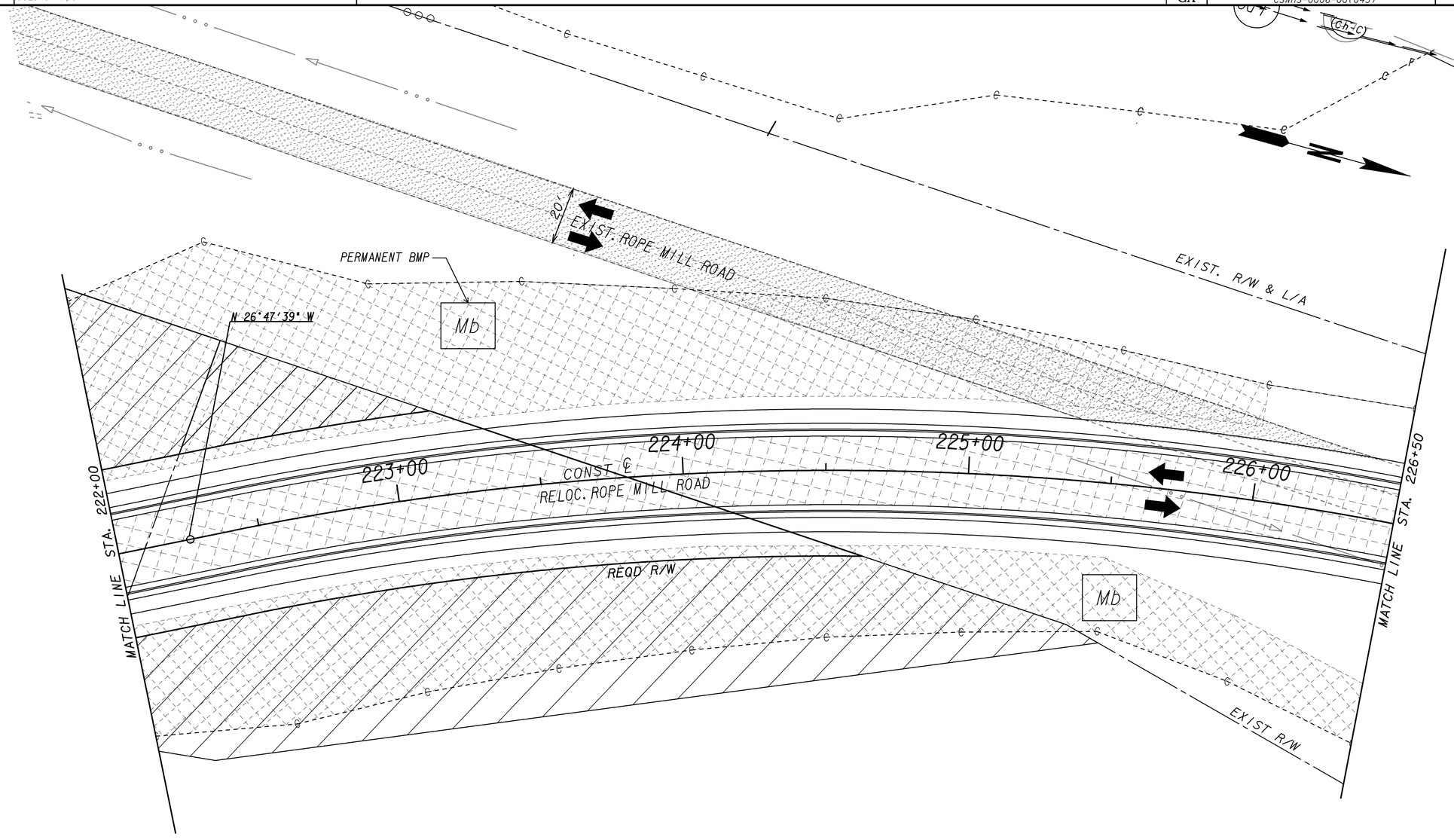
DRAWING No. 54-077

1/5/2009 GPLN

23-DEC-2010 10:43 JParks | TIME$$$ 8825Full.pen | 006043ER38-1A | R:\07400004\006043\DGN\006043ER38-1A.dgn

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	641	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

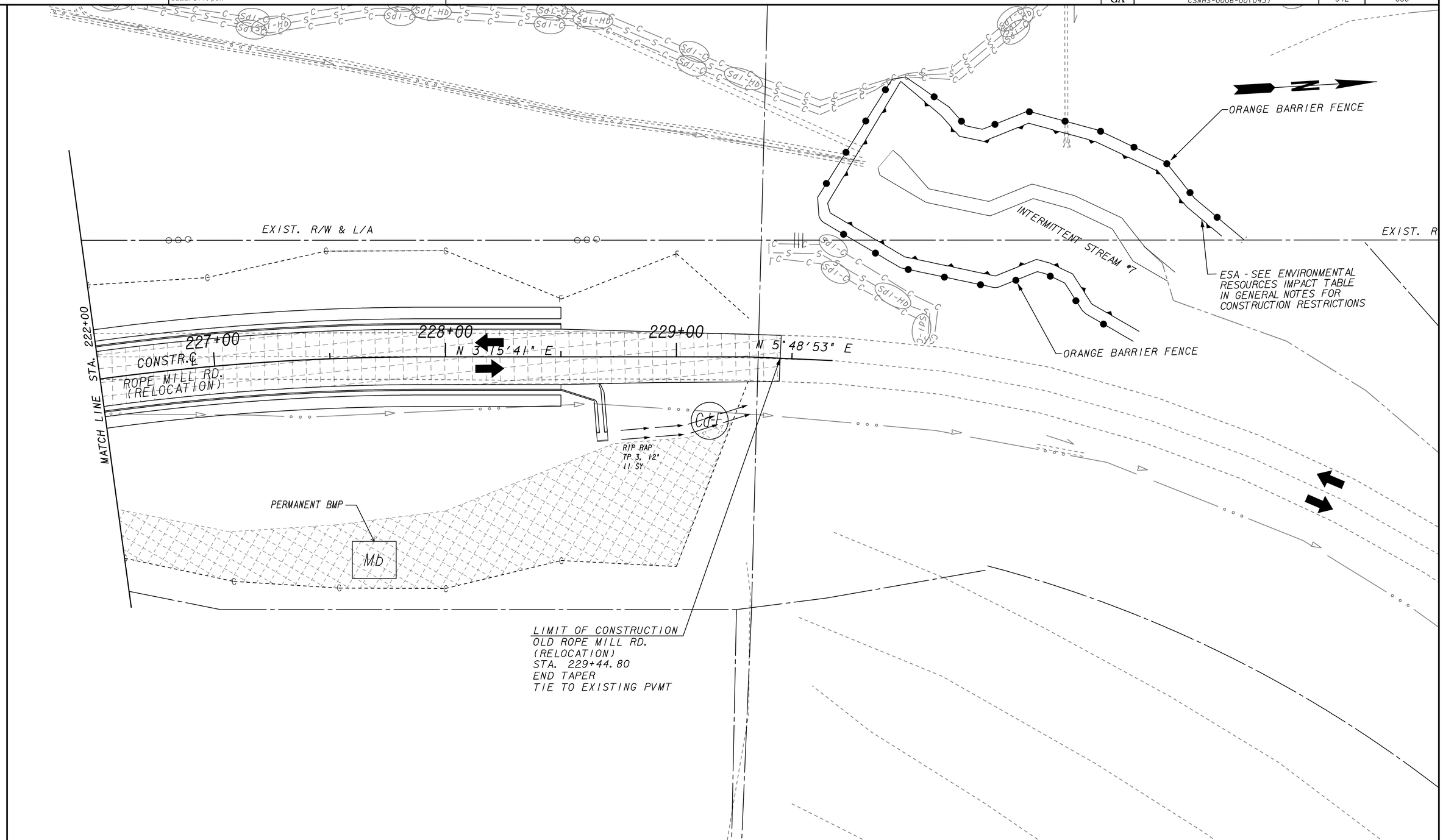
INTERMEDIATE PHASE
RELOC. ROPE MILL ROAD
STA. 222+00 TO STA. 226+50

DRAWING No. 54-078

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	642	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

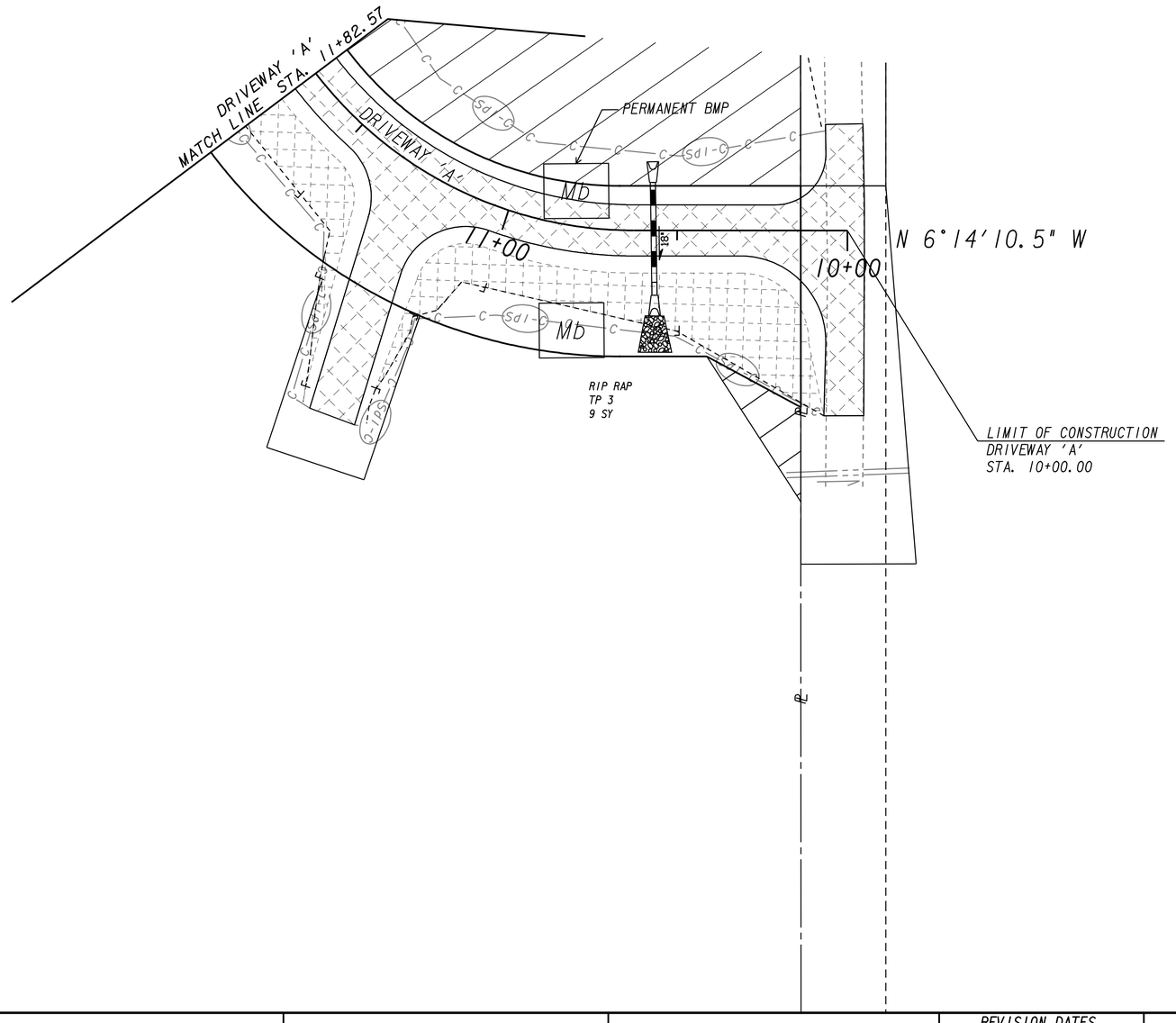
INTERMEDIATE PHASE
RELOC. ROPE MILL ROAD
STA. 226+50 TO END CONST.

DRAWING No. 54-079

1/5/2009 GPLN

23-DEC-2010 10:44	TIME$$$	006043ER40-1A	R:\07400004\006043\DGN\006043ER40-1A.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	643	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

INTERMEDIATE PHASE
DRIVEWAY 'A'
BEGIN CONS. TO STA. 11+82.57

DRAWING No. 54-080

1/5/2009 GPLN

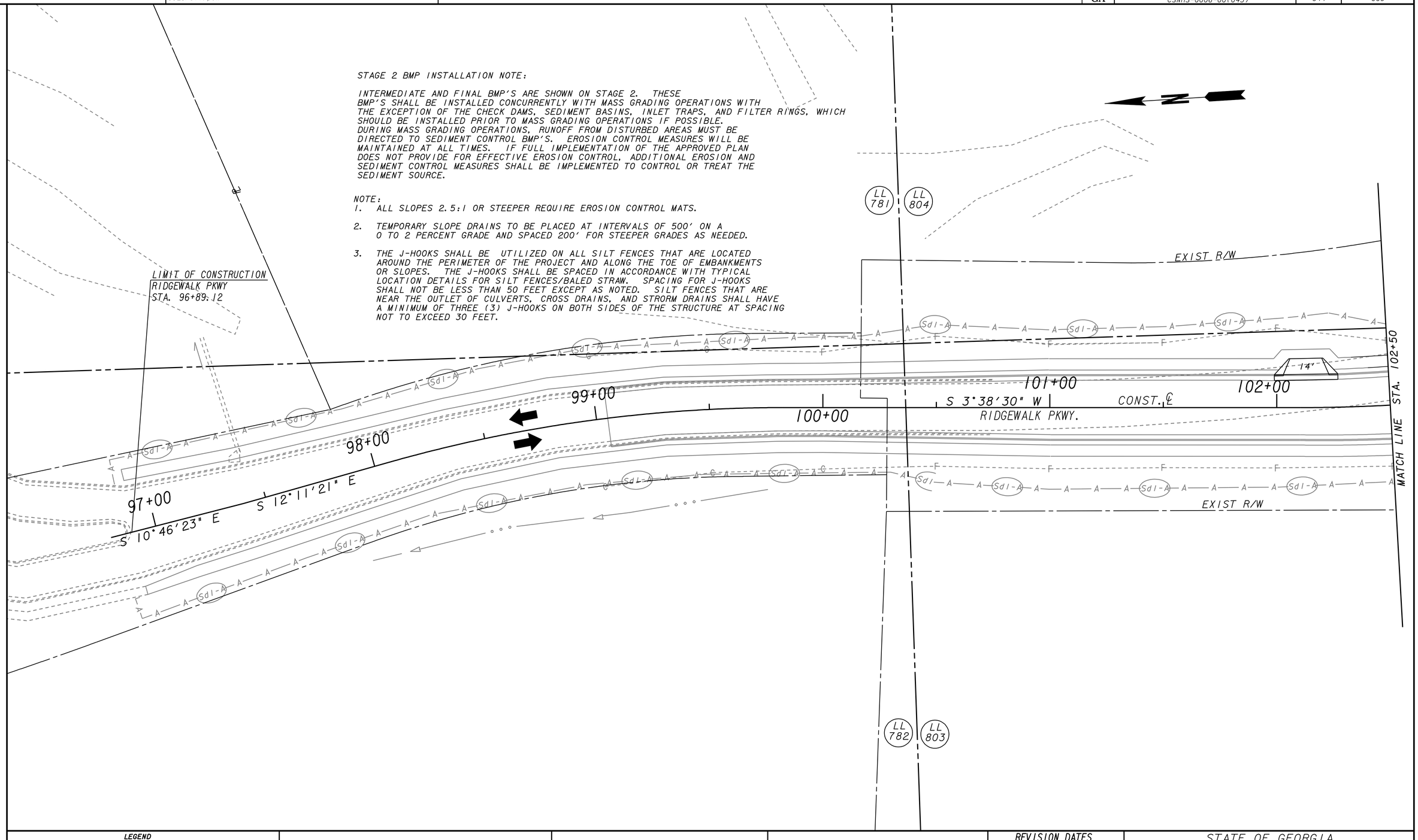
23-DEC-2010 10:44	TIME$$$	006043ER29-2	R:\07400004\006043\DGN\006043ER29-2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	644	668

RELEASED FOR CONSTRUCTION 12/02/10

STAGE 2 BMP INSTALLATION NOTE:

INTERMEDIATE AND FINAL BMP'S ARE SHOWN ON STAGE 2. THESE BMP'S SHALL BE INSTALLED CONCURRENTLY WITH MASS GRADING OPERATIONS WITH THE EXCEPTION OF THE CHECK DAMS, SEDIMENT BASINS, INLET TRAPS, AND FILTER RINGS, WHICH SHOULD BE INSTALLED PRIOR TO MASS GRADING OPERATIONS IF POSSIBLE. DURING MASS GRADING OPERATIONS, RUNOFF FROM DISTURBED AREAS MUST BE DIRECTED TO SEDIMENT CONTROL BMP'S. 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.

NOTE:
1. ALL SLOPES 2.5:1 OR STEEPER REQUIRE EROSION CONTROL MATS.
2. TEMPORARY SLOPE DRAINS TO BE PLACED AT INTERVALS OF 500' ON A 0 TO 2 PERCENT GRADE AND SPACED 200' FOR STEEPER GRADES AS NEEDED.
3. 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 TYPICAL 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.



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

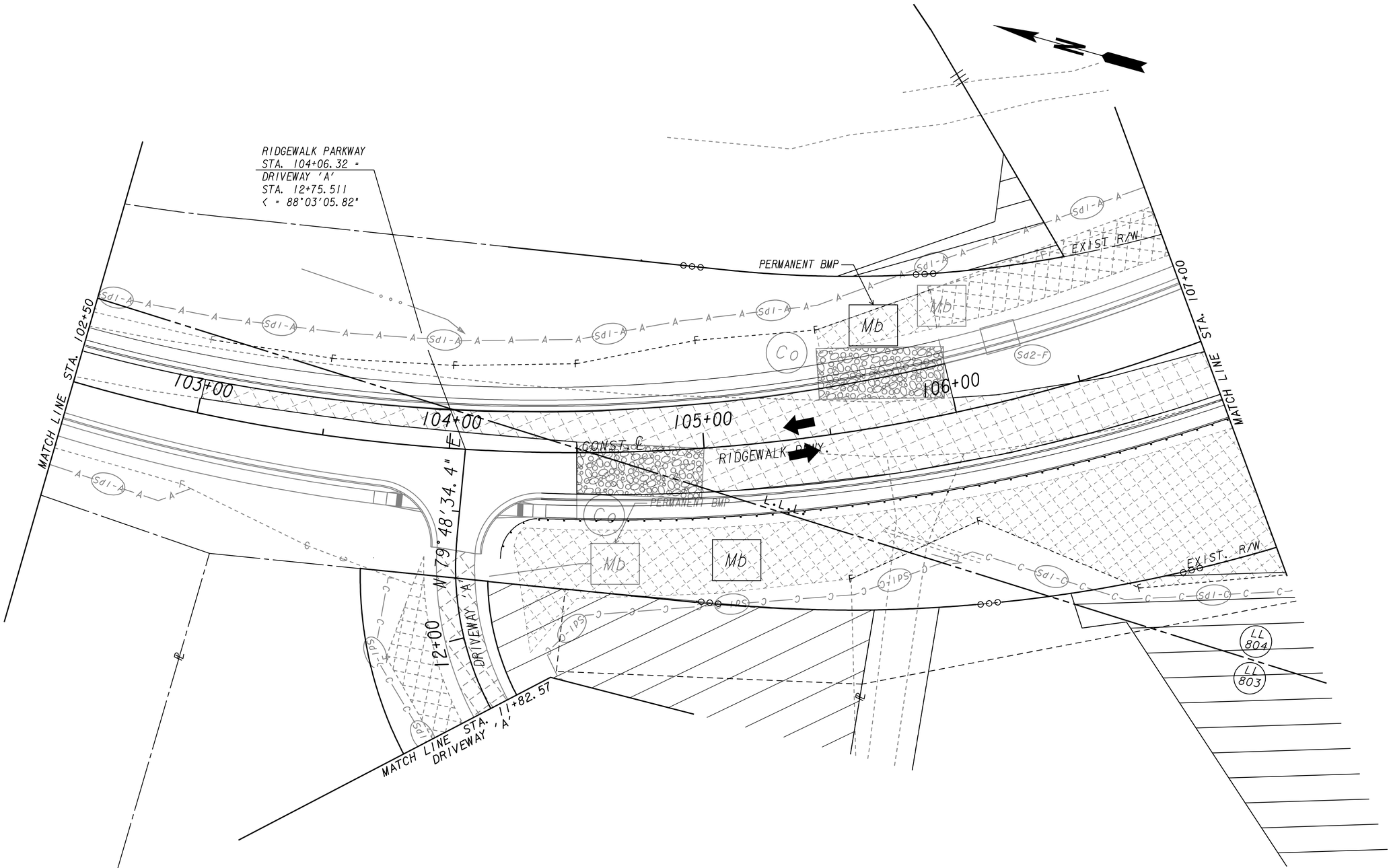
INTERMEDIATE PHASE
STAGE 2
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 54-081

1/5/2009 GPLN

23-DEC-2010 10:44 JParks	TIME$$$ 006043ER30-2 8825Full.pen	R:\07400004\006043\DGN\006043ER30-2.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSNHS-0006-00(043)	645	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

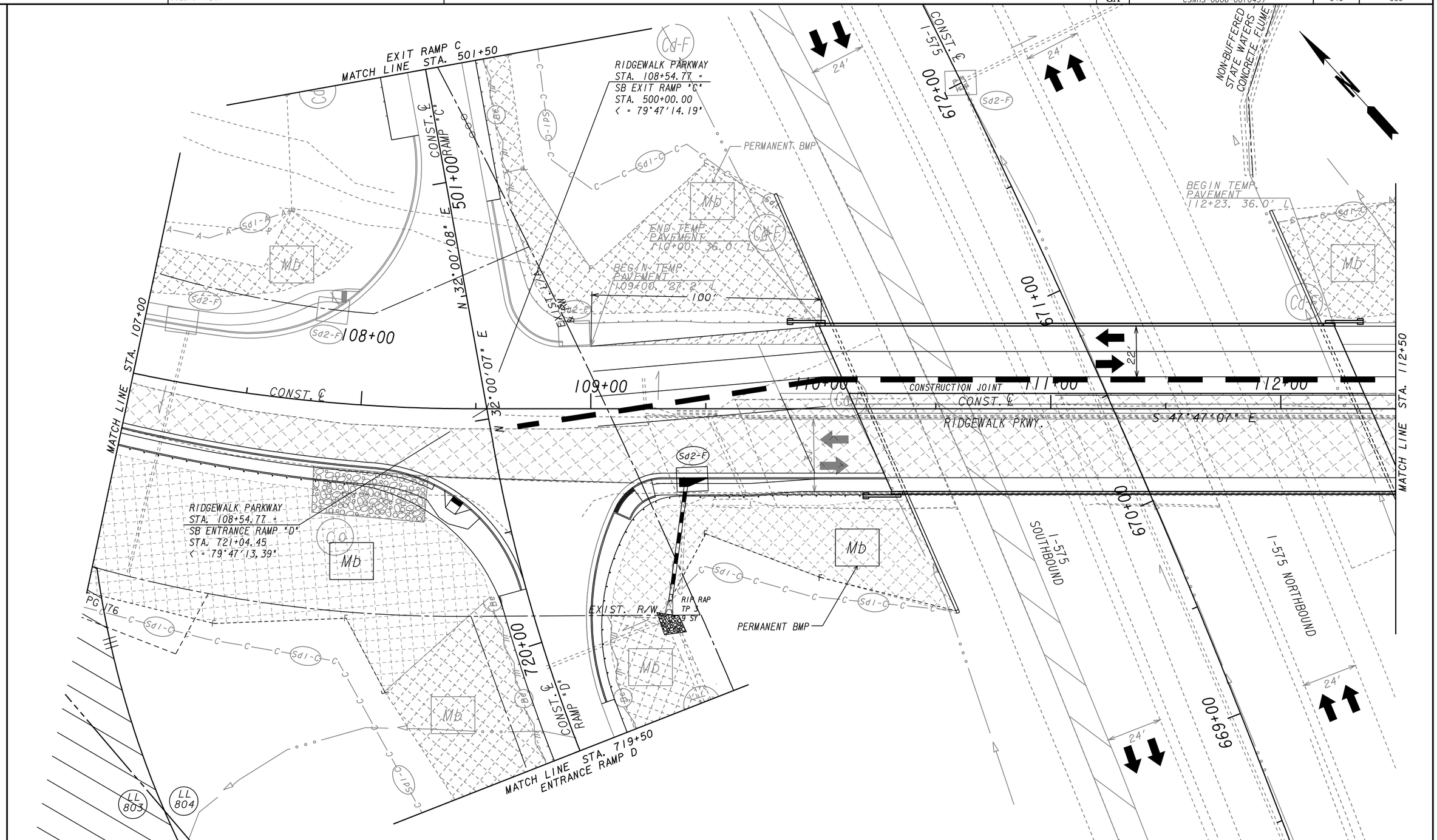
INTERMEDIATE PHASE
STAGE 2
RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 54-082

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	646	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

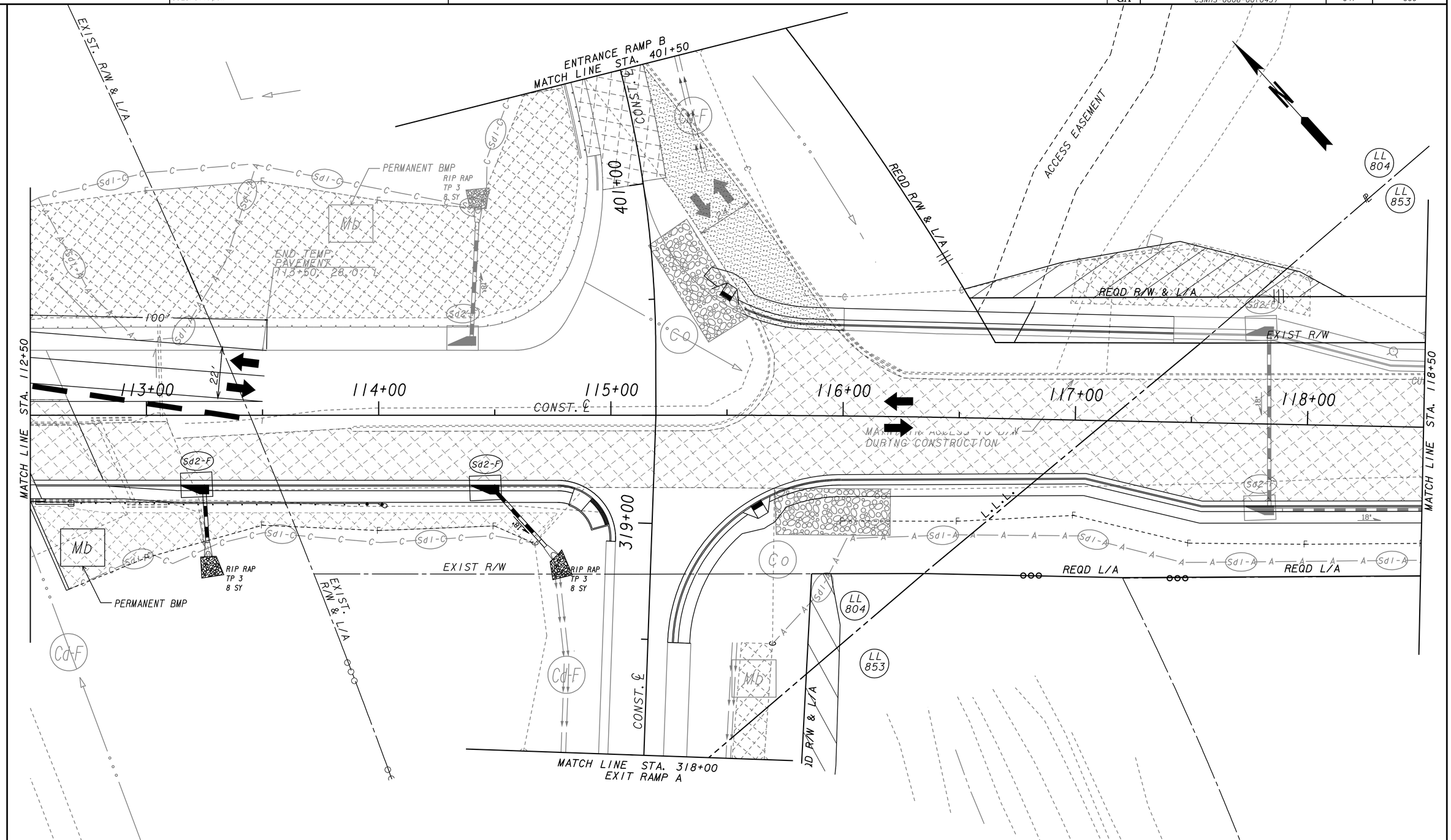
BMP LOCATION DETAILS
INTERMEDIATE PHASE
STAGE 2
RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 54-083

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	647	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

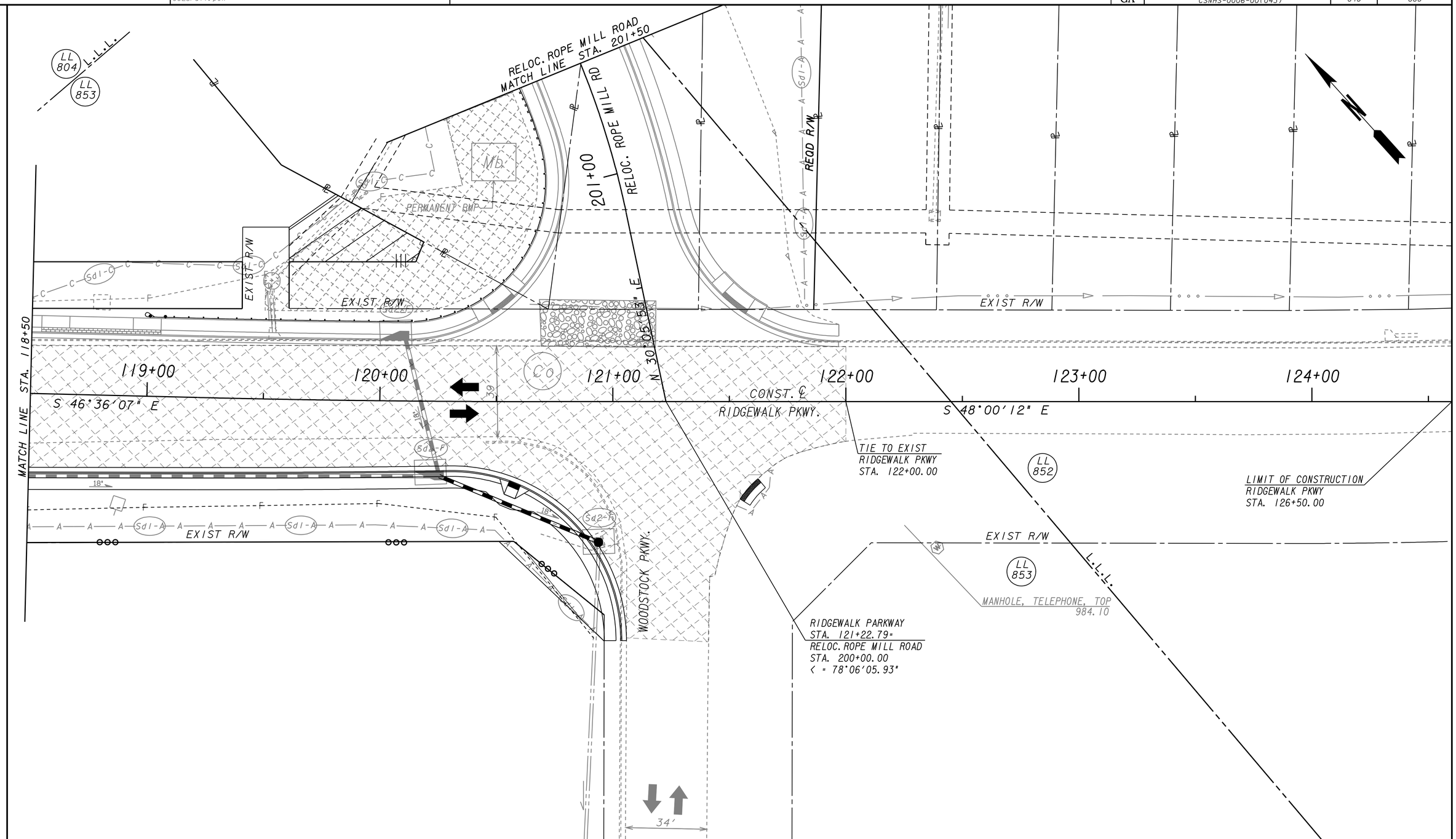
BMP LOCATION DETAILS
INTERMEDIATE PHASE
STAGE 2
RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 54-084

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	648	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS
INTERMEDIATE PHASE
STAGE 2
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 54-085

1/5/2009 GPLN

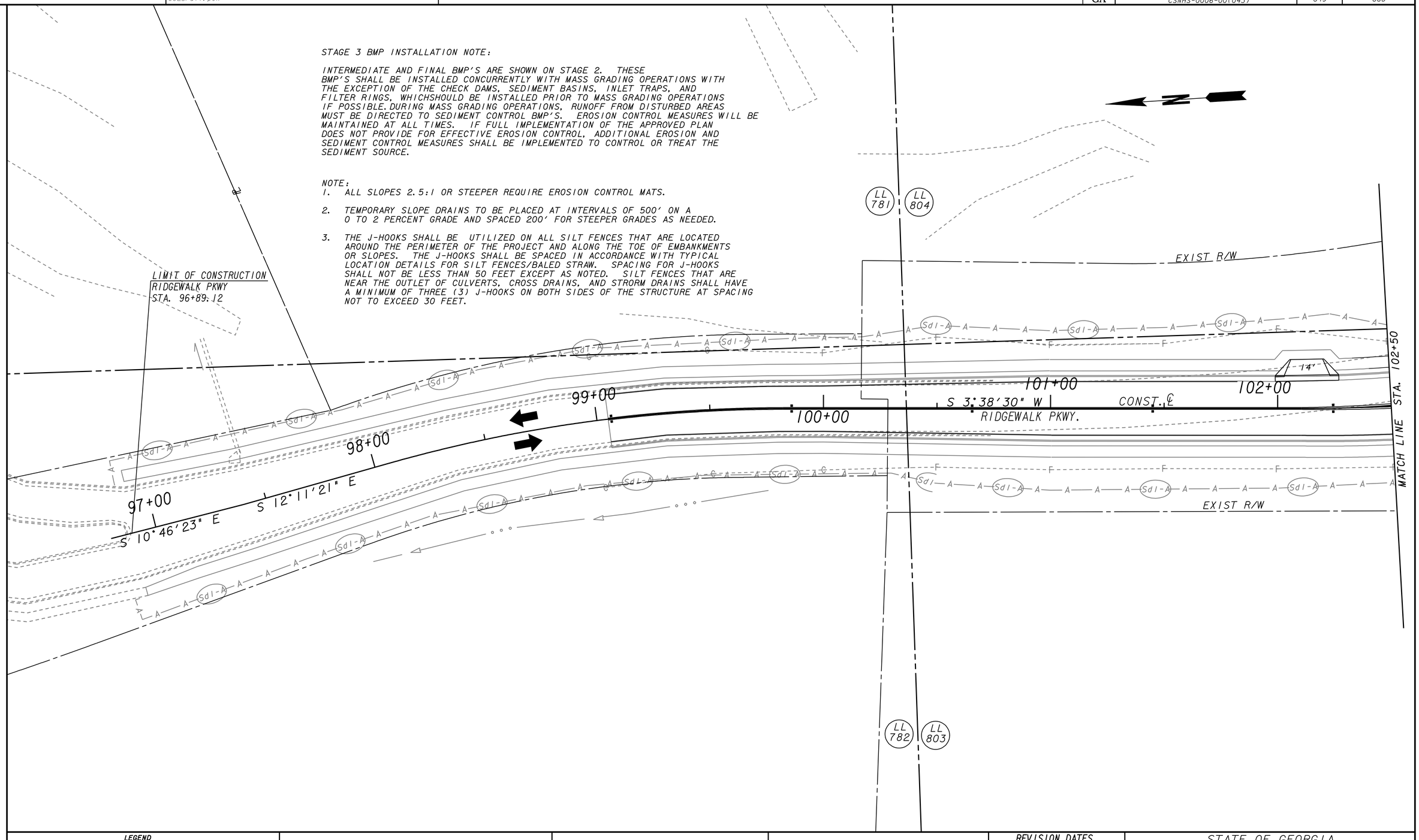
23-DEC-2010 10:45	TIME###	006043ER29-3	R:\07400004\006043\DGN\006043ER29-3.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	649	668

RELEASED FOR CONSTRUCTION 12/02/10

STAGE 3 BMP INSTALLATION NOTE:

INTERMEDIATE AND FINAL BMP'S ARE SHOWN ON STAGE 2. THESE BMP'S SHALL BE INSTALLED CONCURRENTLY WITH MASS GRADING OPERATIONS WITH THE EXCEPTION OF THE CHECK DAMS, SEDIMENT BASINS, INLET TRAPS, AND FILTER RINGS, WHICHSHOULD BE INSTALLED PRIOR TO MASS GRADING OPERATIONS IF POSSIBLE. DURING MASS GRADING OPERATIONS, RUNOFF FROM DISTURBED AREAS MUST BE DIRECTED TO SEDIMENT CONTROL BMP'S. 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.

NOTE:
1. ALL SLOPES 2.5:1 OR STEEPER REQUIRE EROSION CONTROL MATS.
2. TEMPORARY SLOPE DRAINS TO BE PLACED AT INTERVALS OF 500' ON A 0 TO 2 PERCENT GRADE AND SPACED 200' FOR STEEPER GRADES AS NEEDED.
3. 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 TYPICAL 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.



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

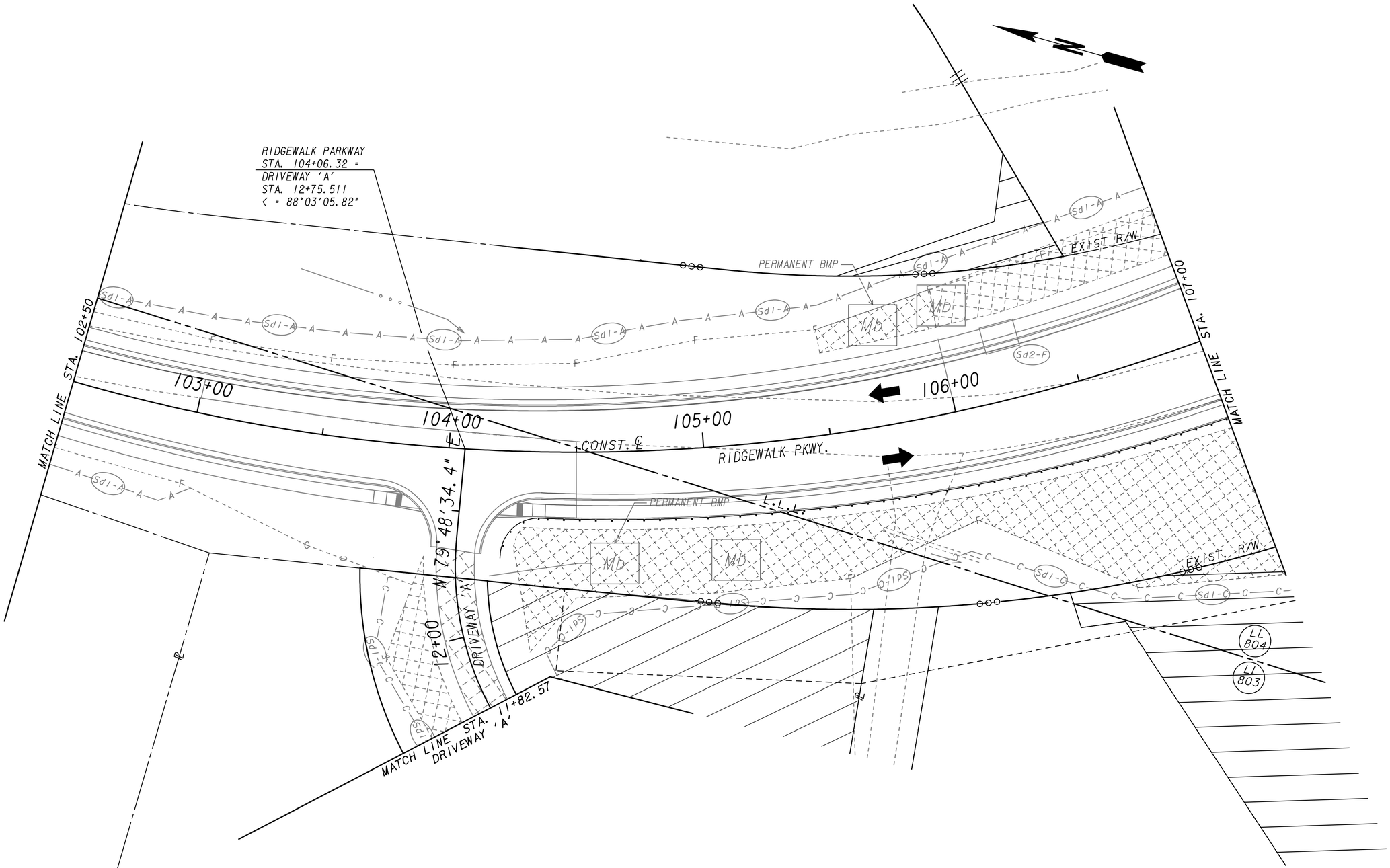
INTERMEDIATE PHASE
STAGE 3
RIDGEWALK PARKWAY
BEGIN CONST. TO STA. 102+50

DRAWING No. 54-086

1/5/2009 GPLN

23-DEC-2010 10:45	TIME$$$	006043ER30-3	R:\07400004\006043\DGN\006043ER30-3.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
JParks		8825Full.pen		GA	CSNHS-0006-00(043)	650	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

1/5/2009 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

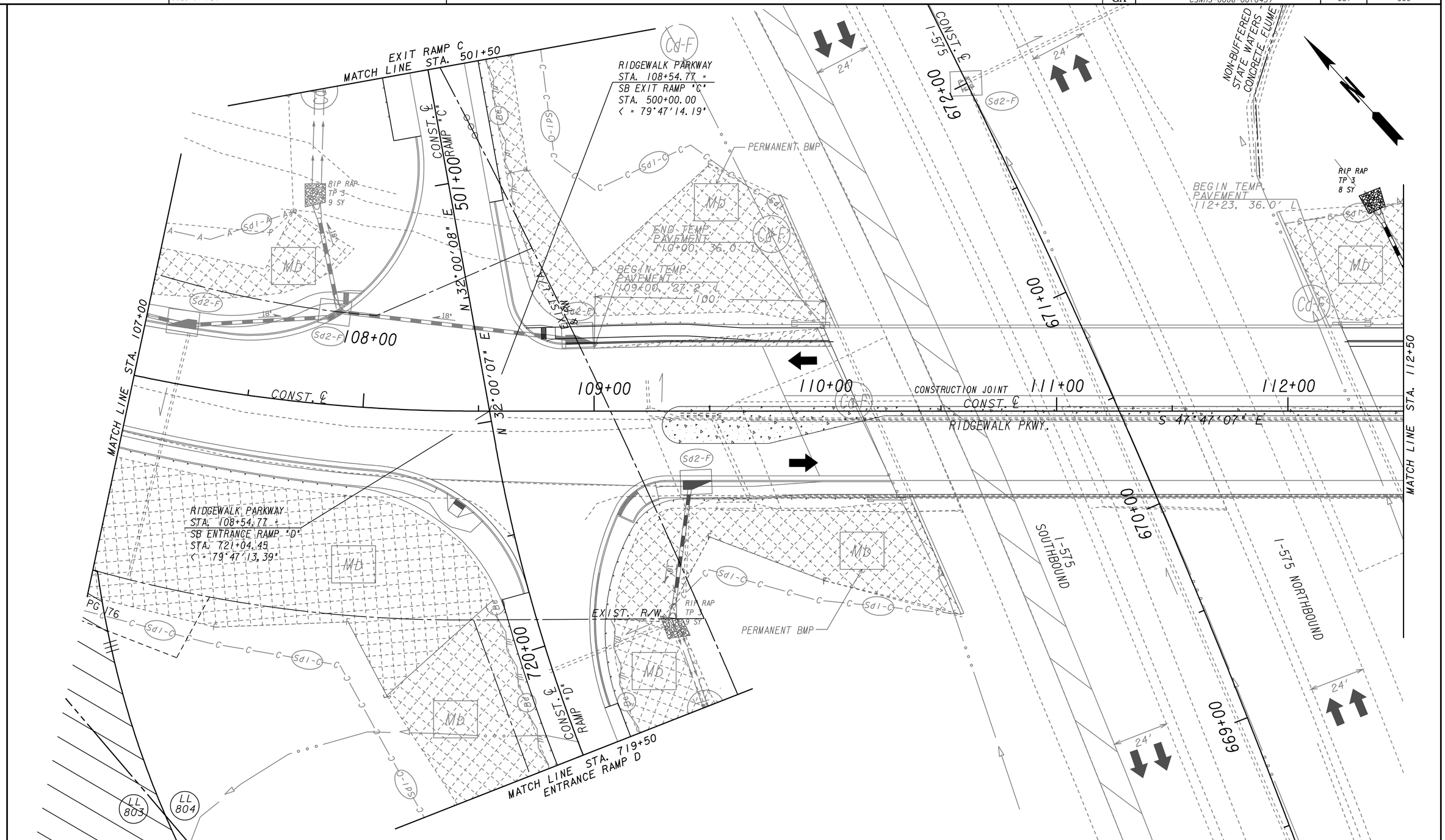
BMP LOCATION DETAILS

INTERMEDIATE PHASE
STAGE 3
RIDGEWALK PARKWAY
STA. 102+50 TO STA. 107+00

DRAWING No. 54-087

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	651	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS
INTERMEDIATE PHASE
STAGE 3
RIDGEWALK PARKWAY
STA. 107+00 TO STA. 112+50

DRAWING No. 54-088

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

EXIST. R/W & L/A

ENTRANCE RAMP B
MATCH LINE STA. 401+50

PERMANENT BMP

RIP RAP
TP 3

END TEMP. PAVEMENT
113+50, 28.0' L

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB ENTRANCE RAMP "B"
STA. 400+00.00
< = 89°48'22.75"

ACCESS EASEMENT

REQD R/W & L/A

EXIST R/W

MATCH LINE STA. 112+50

113+00 114+00 115+00 116+00 117+00 118+00

CONST. ℄

S 47°47'07" E

S 46°36'07" E

RIDGEWALK PKWY.

MAINTAIN ACCESS TO D/W
DURING CONSTRUCTION

MATCH LINE STA. 118+50

N 42°01'19" E

319+00

EXIST R/W

REQD L/A

EXIST. R/W & L/A

PERMANENT BMP

CONST. ℄ RAMP "A"

RIDGEWALK PARKWAY
STA. 115+19.42 =
NB EXIT RAMP "A"
STA. 319+46.65
< = 87°58'38.76"

ID R/W & L/A

MATCH LINE STA. 318+00
EXIT RAMP A

LL 804

LL 853

LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
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(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS

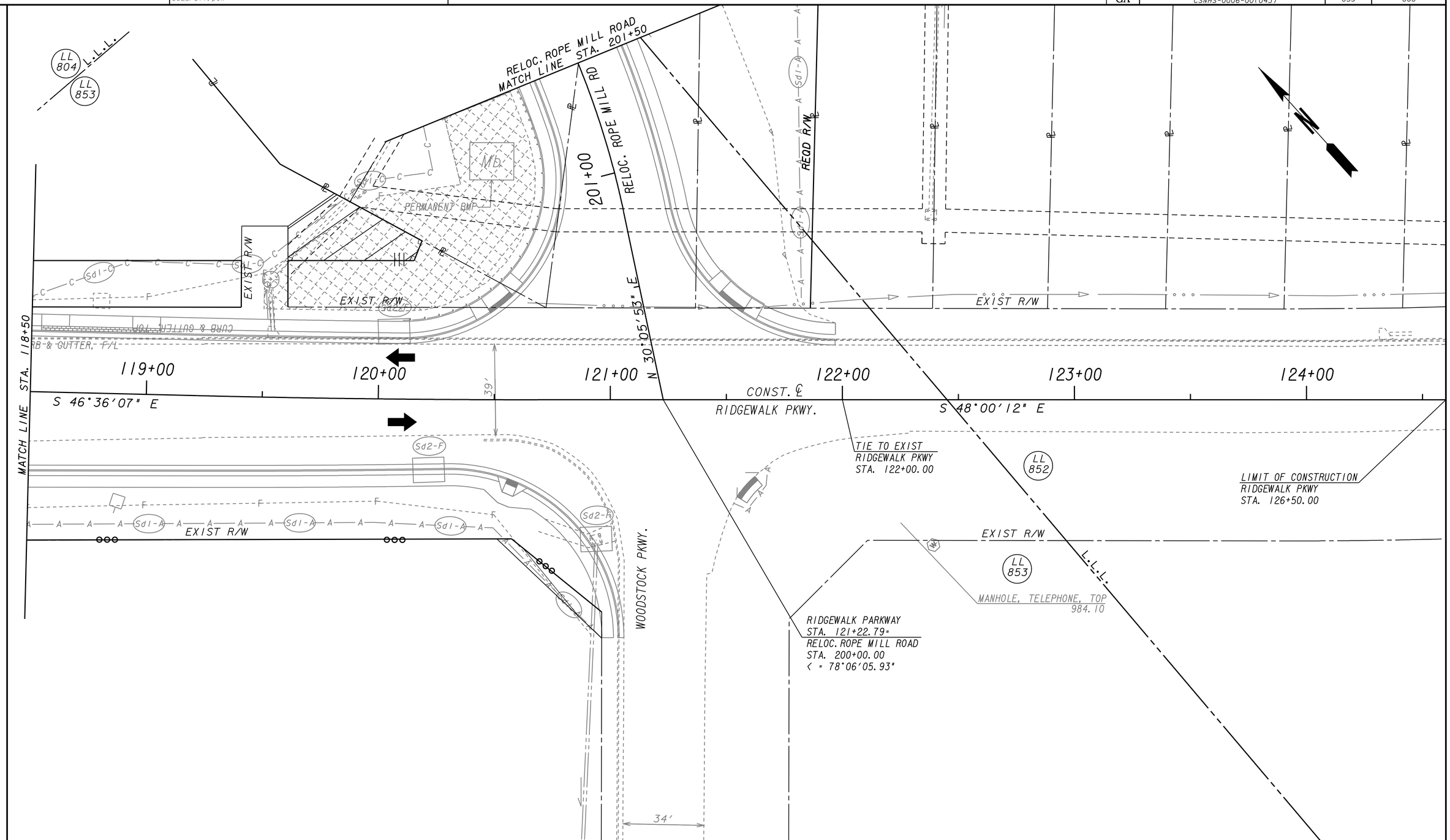
INTERMEDIATE PHASE
STAGE 3
RIDGEWALK PARKWAY
STA. 112+50 TO STA. 118+50

DRAWING No. 54-089

1/5/2009 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	653	668

RELEASED FOR CONSTRUCTION 12/02/10



LEGEND

- PAVEMENT REMOVAL
- TEMPORARY CONSTRUCTION PAVEMENT
- PERMANENT CONSTRUCTION
- CONCRETE MEDIAN CONSTRUCTION
- MILL & OVERLAY CONSTRUCTION
- OPEN LANES OF TRAFFIC

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 20 40 80

REVISION DATES

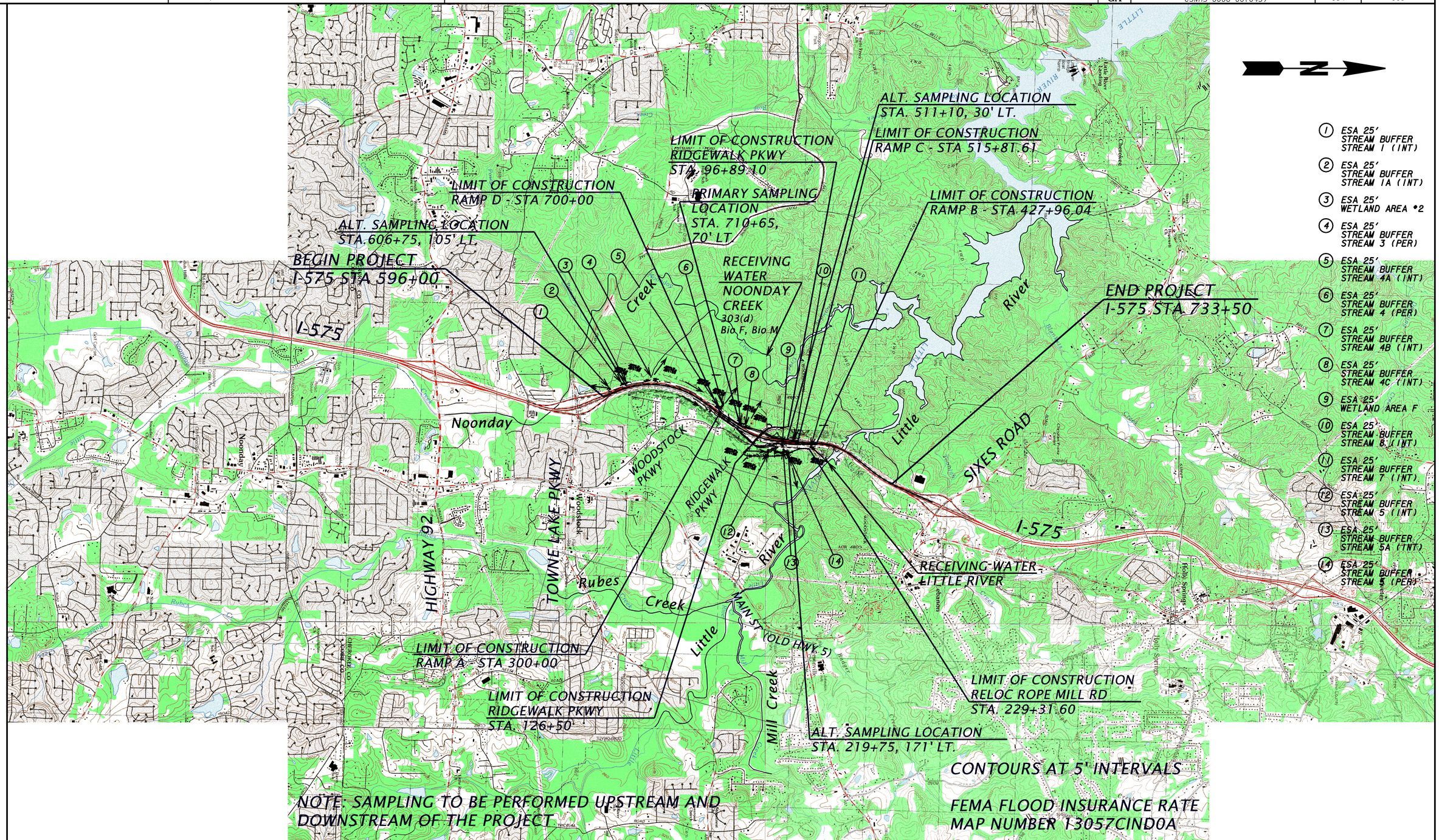
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

BMP LOCATION DETAILS
INTERMEDIATE PHASE
STAGE 3
RIDGEWALK PARKWAY
STA. 118+50 TO END CONST.

DRAWING No. 54-090

1/5/2009 GPLN

RELEASED FOR CONSTRUCTION 12/02/10



THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

SCALE IN FEET
0 2000 4000 8000

REVISION DATES
12/20/10

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

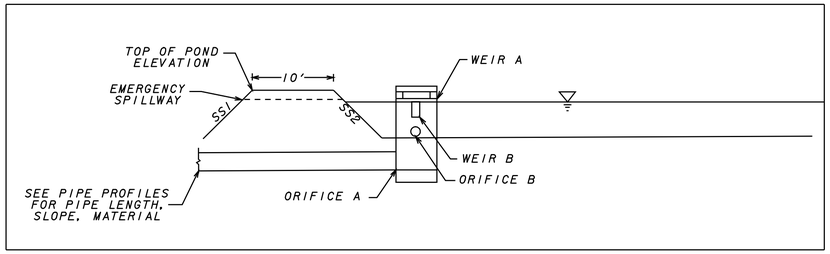
WATERSHED MAP
SITE MONITORING PLAN

DRAWING No. 55-001

1/5/2009 GPLN

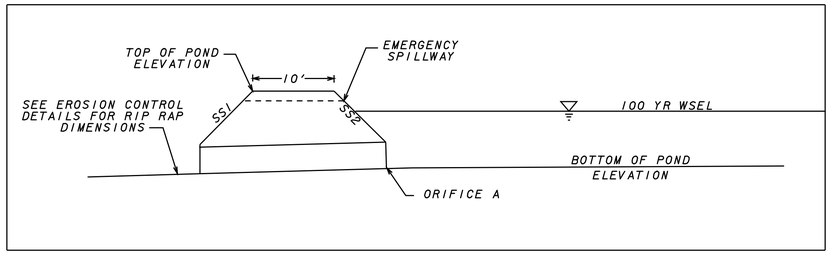
RELEASED FOR CONSTRUCTION 12/02/10

SEDIMENT/DETENTION PONDS

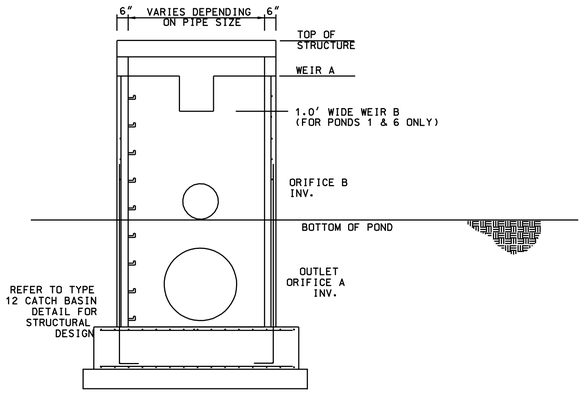


POND ID	BOTTOM OF POND ELEV.	TOP OF POND ELEV.	WEIR A	WEIR B	SS1	SS2	ORIFICE A	ORIFICE B	100 YR WSEL
1	969.7	984.7	981.7	979.5	2:1	2:1	18"@ 965.6	12"@ 969.7	981.0
6	918.9	929.9	924.0	921.3	2:1	2:1	18"@ 907.2	15"@ 918.9	923.9
8	907.0	915.0	913.0		2:1	2:1	18"@ 904.2	18"@ 907.2	911.9

SEDIMENT/DETENTION DITCH PONDS

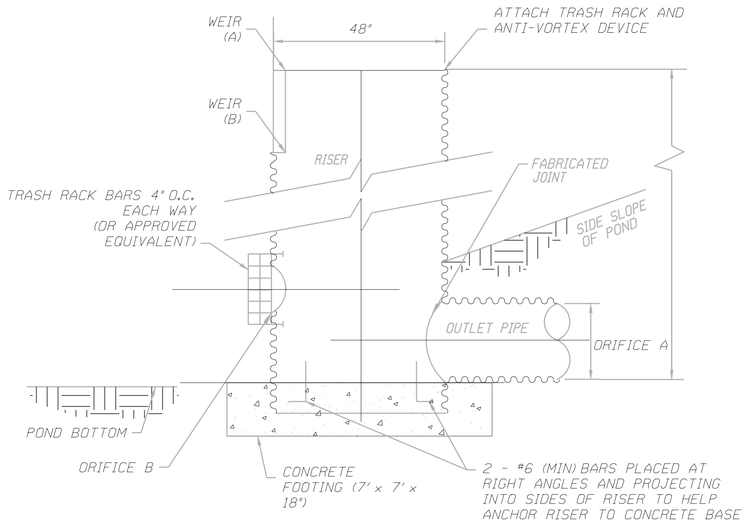


POND ID	BOTTOM OF POND ELEV.	TOP OF POND ELEV.	ORIFICE A	SS1	SS2	SPILLWAY	100 YR WSEL
2A	982.0	985.0	18" RCP	2:1	2:1	984.0	982.8
2B	978.0	981.0	24" RCP	2:1	2:1	980.5	980.6
3	980.0	983.0	18" RCP	2:1	2:1	982.0	981.1
4	980.15	984.15	18" RCP	2:1	2:1	983.5	983.3
5	954.4	958.4	24" RCP	2:1	2:1	957.9	957.4



TYPICAL POND OUTLET CONTROL CONCRETE STRUCTURE

N.T.S.



TYPICAL POND OUTLET CONTROL CMP PIPE STRUCTURE

N.T.S.

NOTE

RETROFIT TO BE ADDED DURING STAGING AND REMOVED UPON COMPLETION OF CONSTRUCTION FOR BOTH POND TYPES. RETROFIT SHOULD BE DESIGNED TO PROTECT ALL ORIFICES AND WEIR B, BUT NOT WEIR A.

EACH POND IS DESIGNED TO HAVE A MINIMUM OF 1 FOOT OF FREEBOARD

SEDIMENT BASIN DETAILS

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3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSNHS-0006-00(043)	656	668

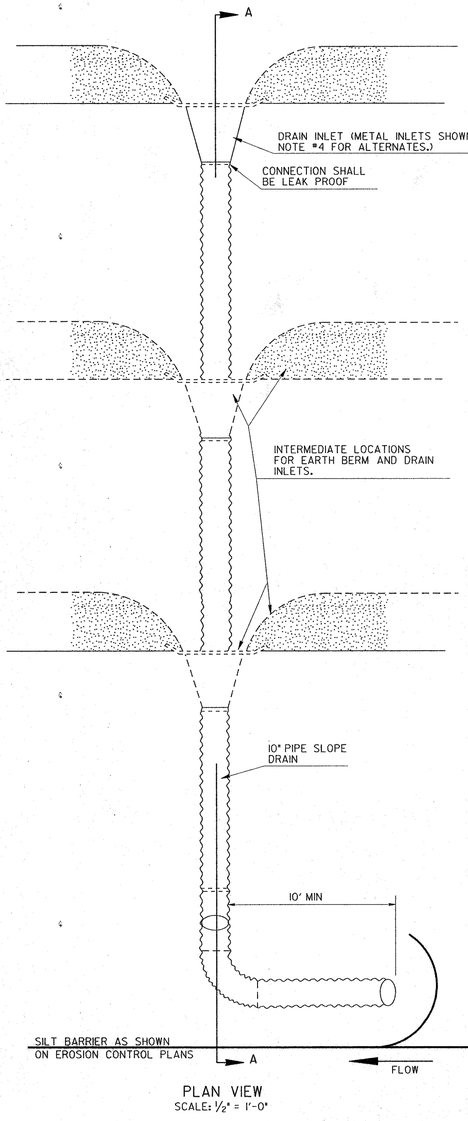
RELEASED FOR CONSTRUCTION 12/02/10

Tue Feb 29 08:32:19 2000 \\GDOT-DSNI\DCF\OSD_Mular.dcf posted M:\David\working\(am)d-19.dgn

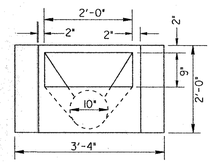
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

USES:

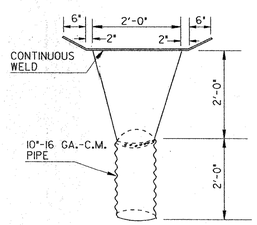
TEMPORARY PIPE SLOPE DRAIN IS USED TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TYPICAL SPACING SHALL BE AT INTERVALS OF 500 FEET ON DIAMETER TO 2% GRADES, 200 FEET ON STEEPER GRADES, AND MORE FREQUENTLY AS DICTATED BY EXISTING FIELD CONDITIONS.



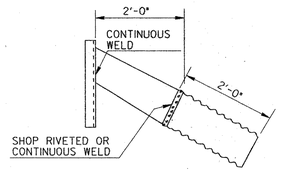
PLAN VIEW
SCALE: ½" = 1'-0"



FRONT VIEW
SCALE: ¾" = 1'-0"

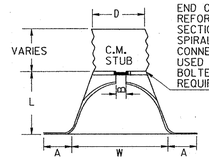


PLAN VIEW
SCALE: ¾" = 1'-0"



SIDE VIEW
SCALE: ¾" = 1'-0"

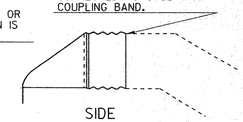
SECTION A-A
SCALE: ½" = 1'-0"



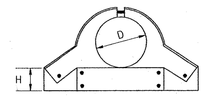
PLAN

END OF C.M. STUB REFORMED TO FIT END SECTION IF PIPE IS SPIRALED & LUG OR CONNECTING ROD IS USED - OR RIVETED OR BOLTED CONNECTION IS REQUIRED.

PLASTIC PIPE ELBOW OR C.M. PIPE ELBOW TO BE CONNECTED TO STUB WITH COUPLING BAND.



SIDE



FRONT

TYPICAL DIMENSIONS

D	GALV. STEEL	ALUM.	A	B	H	L	W
10"	18 GA	18 GA	7½"	2½"	6"	14½"	21"
12"	16 GA	16 GA	5"	6"	6"	20"	24"

ALTERNATE DRAIN INLET (METAL)

GENERAL NOTES:

1. DRAIN INLETS AND SLOPE DRAIN PIPE USED FOR TEMPORARY EROSION AND POLLUTION CONTROL UNDER SECTION 163 WILL BE RETAINED FOR USE AS INVENTORY ITEMS BY THE CONTRACTOR.
2. EROSION PROTECTION AT PIPE OUTLET WILL BE PROVIDED AS APPROPRIATE. THE PIPE MAY BE EXTENDED TO OUTLET IN A PAVED DITCH OR TEMPORARY DISSIPATORS CONSTRUCTED OF LOGS OR STONE MAY BE USED. NO SEPARATE PAYMENT WILL BE MADE FOR THIS PROTECTION MEASURE.
3. SLOPE DRAIN PIPE MAY BE ANY TYPE ALLOWED BY THE GA. STANDARD SPECIFICATIONS.
4. ALLOWABLE DRAIN INLET ALTERNATES WILL BE:
   (A) IF SLOPE DRAIN IS PLASTIC, A PLASTIC DRAIN INLET OR PLASTIC FLARED END SECTION HAVING SIMILAR DESIGN TO METAL INLETS OR END SECTIONS MAY BE USED FOR THE DRAIN INLET.
   (B) A METAL FLARED END SECTION MAY BE USED WITH EITHER PLASTIC PIPE OR C.M. PIPE, IF THE END SECTION WAS MADE FOR LARGER PIPE THAN THE SLOPE DRAIN PIPE, AN APPROVED MODIFIED CONNECTION WILL BE REQUIRED BETWEEN THE PIPE AND THE END SECTION.
   (C) A SUMP HOLE WITH DIMENSIONS AT LEAST EQUIVALENT TO THE METAL DRAIN AND LINED WITH POLYETHYLENE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER MAY BE USED WITH ANY TYPE OF PIPE.
   (D) THE METAL DRAIN INLET SHOWN MAY BE USED WITH EITHER 10" C.M. PIPE OR PLASTIC PIPE.
5. THE CONTRACTOR MAY ELECT TO USE PIPE LARGER THAN 10" DIAMETER WITH NO ADDITIONAL PAYMENT.

BY	REVISION	DATE
	ADDED ELBOW	2-25-00

CONSTRUCTION DETAILS

TEMPORARY PIPE SLOPE DRAIN WITH DRAIN INLET

SCALE AS SHOWN

D-19

Tue Feb 29 08:32:19 2000 \\GDOT-DSNI\DCF\OSD_Mular.dcf posted M:\David\working\(am)d-19.dgn

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-002

3/1/2007 GPLN

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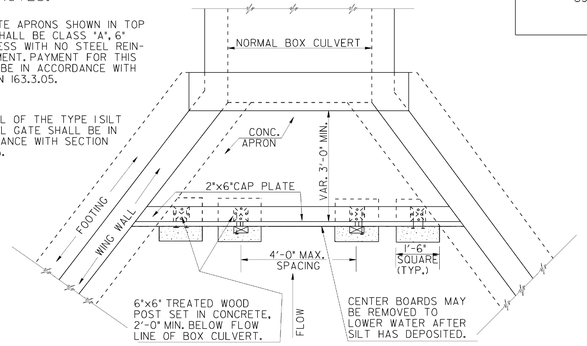
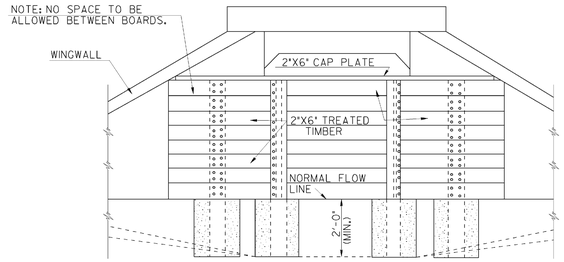
TYPE 1- FOR BOX CULVERTS

NOTES:

1. CONCRETE APRONS SHOWN IN TOP VIEW SHALL BE CLASS "A", 6" THICKNESS WITH NO STEEL REINFORCEMENT. PAYMENT FOR THIS SHALL BE IN ACCORDANCE WITH SECTION 163.3.05.
2. REMOVAL OF THE TYPE I SILT CONTROL GATE SHALL BE IN ACCORDANCE WITH SECTION 163.3.05.



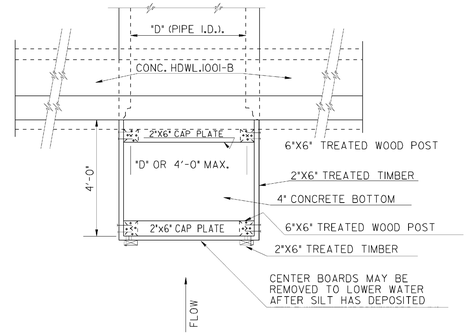
TOP VIEW



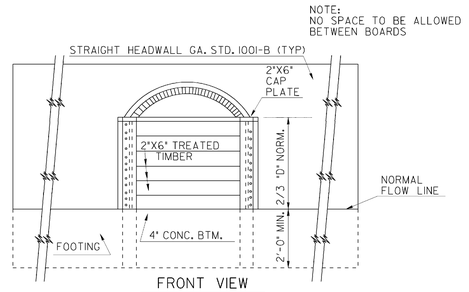
FRONT VIEW

USES: 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.

TYPE 2 - FOR STRAIGHT HEADWALLS



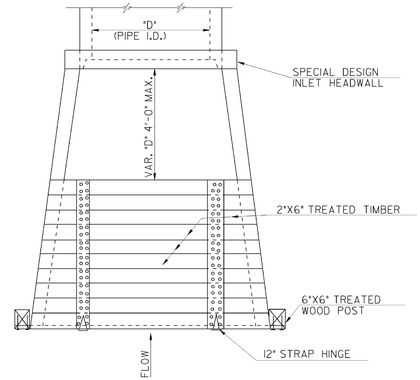
TOP VIEW



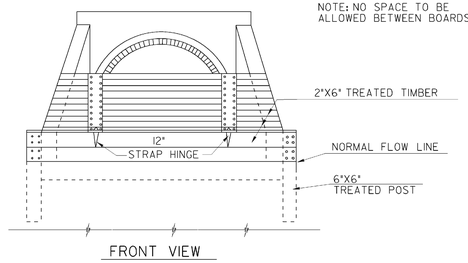
FRONT VIEW

TYPE 3 - FOR FLARED END SECTIONS AND TAPERED HEADWALLS

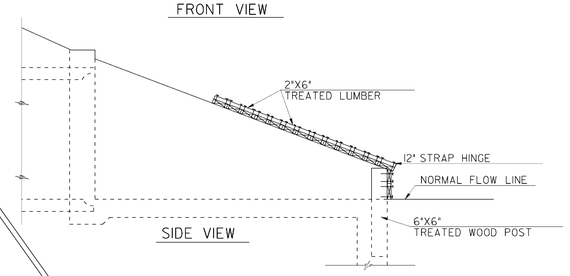
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TOP VIEW



FRONT VIEW



SIDE VIEW

NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

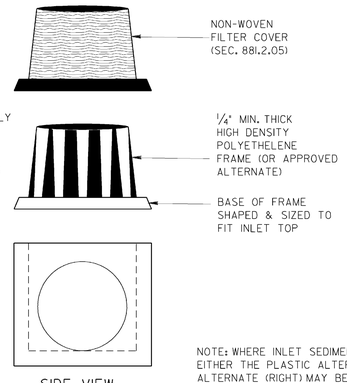
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.

NOTE:
IF RUNOFF MAY BYPASS THE PROTECTED INLET, A TEMPORARY DIKE SHOULD BE CONSTRUCTED ON THE DOWN SLOPE SIDE OF THE STRUCTURE.

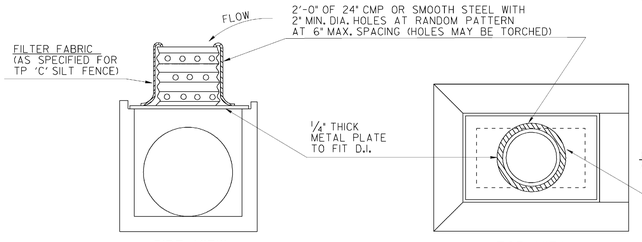
INLET SEDIMENT TRAP - FOR DROP INLETS

(PLASTIC ALTERNATE)



SIDE VIEW

(METAL ALTERNATE)



SIDE VIEW

TOP VIEW

NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

BY	REVISION	DATE
GLO	REV. SPECIFICATION	3-21-05
MER	ADDED PAYMENT NOTE	10-22-08

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
SILT CONTROL GATES FOR STRUCTURES TYPE- 1, 2, 3: INLET SEDIMENT TRAP

REV. & REDR. DEC., 2000

Designed ____
Drawn ____
Traced ____
Checked B-72

NUMBER D-20

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RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
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(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-003

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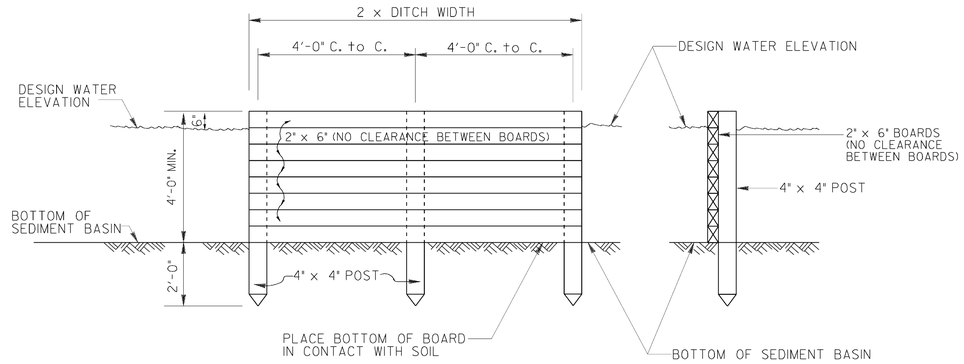
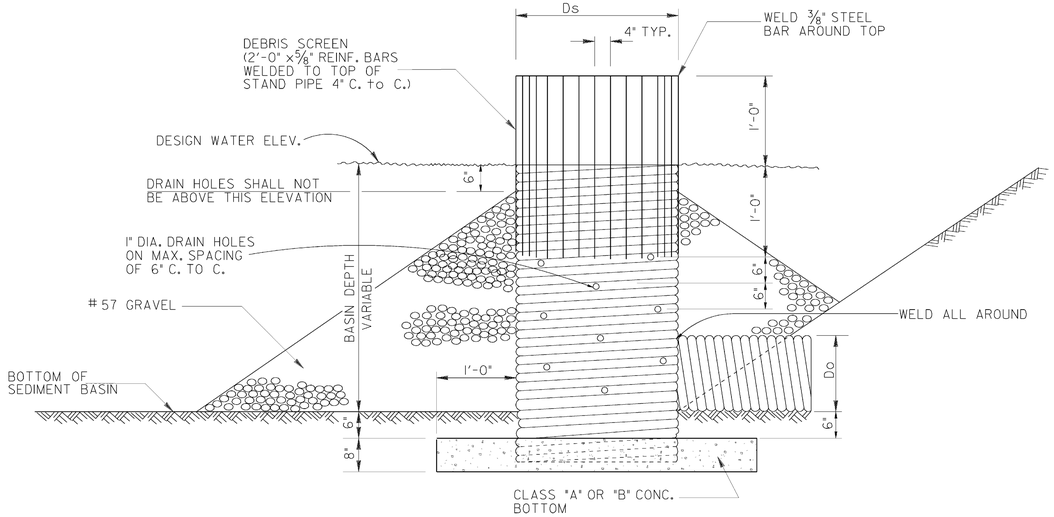
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



INLET BAFFLE



PRIMARY SPILLWAY
FOR
SEDIMENT BASIN TYPE-I

USES:

PRIMARY SPILLWAYS, TYPE-I, ARE TO BE USED WITH SEDIMENT BASINS, TYPE-I. (SEE SEPARATE SHEET).

BY	DATE	REVISION
J.M.W.	2-17-95	REVISED INLET BAFFLE AND PRIMARY SPILLWAY
J.M.W.	5-14-93	REVISED SPILLWAY FILTER
J.M.W.	6 - 2 89	ADDED "USES" GUIDE
P.M.U.	4- 6-89	GEN. REVISION
J.M.W.	11-9-73	DELETED TYPE 2
J.M.W.		REVISED SEDIMENT
G.L.D.	1-20-06	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INLET BAFFLE
PRIMARY SPILLWAY TYPE - I

J.M.W.
J.L.P.

NUMBER
D-21

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3595 ENGINEERING DRIVE
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No.
56-004

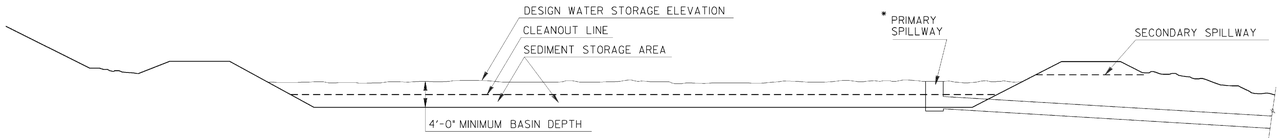
RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

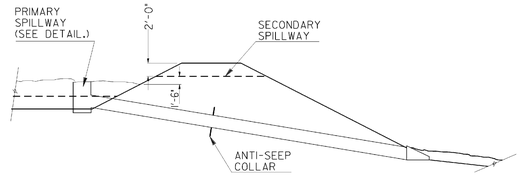
USES:
THIS IS A BASIN THAT IS EXCAVATED OR AN AREA THAT IS DAMMED. THE BASIN WILL BE DESIGNED TO HOLD A SEDIMENT LOAD OF 1815 CUBIC FEET OF VOLUME PER ACRE OF DRAINAGE AREA. IT IS USED FOR DRAINAGE AREAS OF 3 TO 5 ACRES OR WHERE A ROADWAY CUT DITCH EXCEEDS 1,000 CONSECUTIVE FEET IN LENGTH. LARGER DRAINAGE AREAS OR LONGER CUT DITCHES SHOULD BE BROKEN INTO SMALLER AREAS IF POSSIBLE. IF A SEDIMENT BASIN IS USED ON AN AREA LARGER THAN 5 ACRES, THE SIZE WILL BECOME VERY LARGE. THIS REQUIRES SPECIAL CONSIDERATION FOR CLEANOUT ACCESS SUCH AS THE ADDITION OF A CLEANOUT PENINSULA. SUFFICIENT EASEMENT IS NEEDED FOR THE BASIN AND ACCESS FOR CLEANOUT VIA A ROUTE WITH 3:1 SLOPE OR LESS.



SECTION A-A

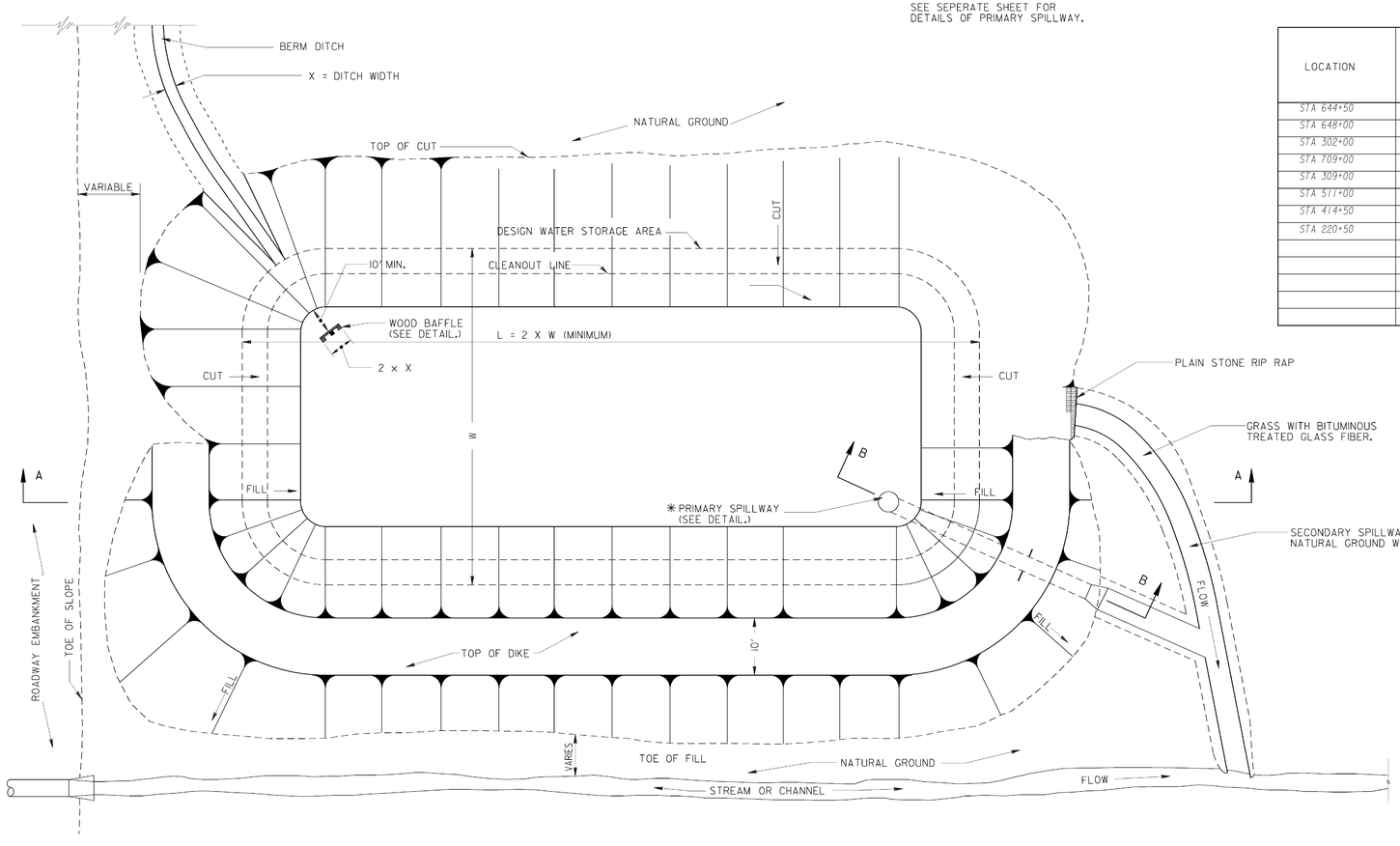
NOTE: RUNOFF FROM UNDISTURBED, ADJACENT LAND SHOULD BE ROUTED TO BYPASS SEDIMENT BASINS.

NOTE:
ALLOWABLE SEDIMENT DEPTH SHALL NOT EXCEED 1/3 TOTAL BASIN DEPTH.



SECTION B-B

* SEE SEPERATE SHEET FOR DETAILS OF PRIMARY SPILLWAY.



LOCATION	SIDE	REQUIRED VOLUME	BASIN DEPTH	W AT DEPTH SHOWN	L	PRIMARY SPILLWAY D_S	PRIMARY SPILLWAY D_O	SECONDARY SPILLWAY WIDTH
		CU. FT.	FT.	FT.	FT.	IN.	IN.	FT.
STA 644+50	RT	23321	7.27	40	135	18	12	2
STA 648+00	RT	1215	3	32	120	18	18	2
STA 302+00	RT	9128	3	69	185	24	24	4
STA 709+00	LT	2388	3	25	55	18	18	2
STA 309+00	RT	6851	2.85	50	100	18	18	4
STA 511+00	LT	3423	3	20	115	24	24	2
STA 414+50	RT	10940	5.1	30	160	18	15	2
STA 220+50	LT	20255	6	40	75	18	18	10

NOTE:
BASIN DEPTH 4'-0" MINIMUM, W & L MAY VARY TO CONFORM TO SITE CONDITIONS, PROVIDED REQUIRE VOLUME IS MAINTAINED, MINIMUM L = 2W.

NOTE:

RETROFIT ORIFICES AND WEIRS TO ACCOUNT FOR STORAGE DEPTHS AS INDICATED IN THE CHART.

DATE	REVISION	BY
11-19-73	REVISED SEDIMENT	J.M.W.
5-19-89	GEN. REV.	J.M.W.
5-14-93	ADDED "USES" GUIDE	J.M.W.
2-24-95	GEN. REV.	J.M.W.
4-2-01	ADDED RUNOFF NOTE	J.M.W.
10-15-01	RELOC. WOOD BAFFLE	J.M.W.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SEDIMENT BASIN TYPE - 1
FOR USE OUTSIDE NATURAL CHANNELS

D-22

THE DRAWINGS TO BE AN EXACT REPRESENTATION OF THE FINAL AS-BUILT CONDITIONS.

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OFFICE: INNOVATIVE PROGRAM DELIVERY

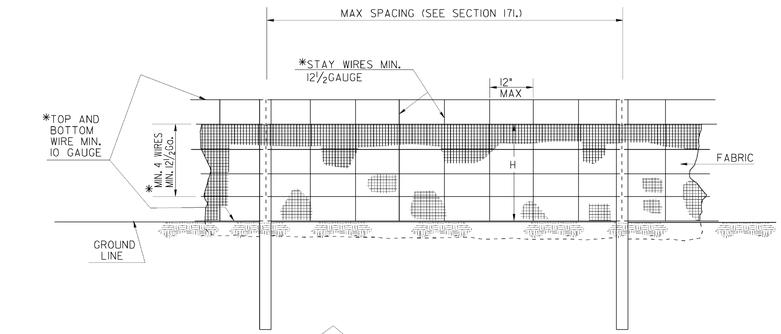
EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-005

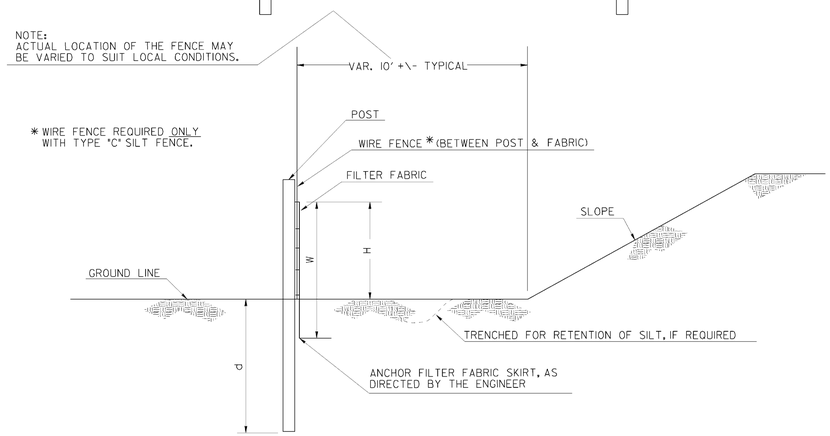
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

TEMPORARY SILT FENCE DETAILS



NOTE:
ACTUAL LOCATION OF THE FENCE MAY BE VARIED TO SUIT LOCAL CONDITIONS.



ELEVATION

TEMPORARY SILT FENCES ARE FOR USE WHERE IT HAS BEEN DETERMINED THAT BALED STRAW EROSION CHECKS ARE INADEQUATE OR THAT SILT FENCES CAN BE JUSTIFIED ON A COST EFFECTIVE BASIS.

TEMPORARY SILT FENCES ARE NOT TO BE CONFUSED WITH SILT RETENTION BARRIERS.

SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.

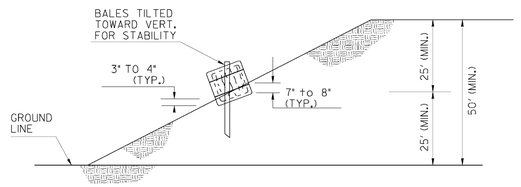
FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-2"	1'-6"	3'-0"	WHERE FILL EXEEDS 10 FT. HEIGHT;
TYPE "B"	3 FT.	1'-4"±	1'-6"	1'-10"	WHERE FILL HEIGHTS ARE UNDER 10 FT.;
TYPE "C"	4 FT.	2'-2"	1'-6"	3'-0"	& AT BRIDGE END ROLLS, DITCH CHECKS, & AT GRADES OVER 8% AT 25 FT. SPACING.

(SEE SHEET 2 OF 2 FOR ADDITIONAL APPLICATIONS.)

BALED STRAW EROSION CHECK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

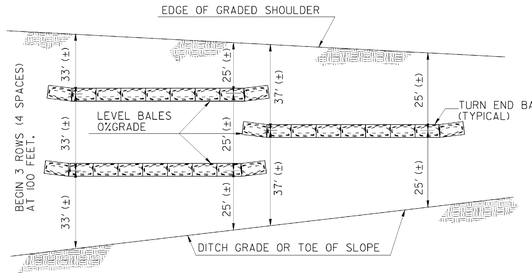
BALED STRAW ON FILL SLOPE



ELEVATION

(ONE ROW OF BALES SHOWN-2 OR MORE MAY BE SPECIFIED)

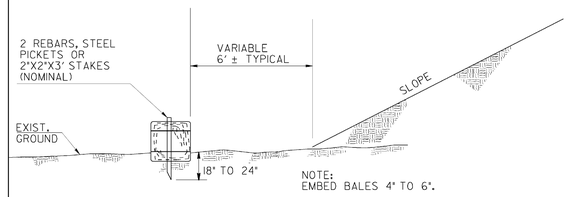
NOTE: FOR BALED STRAW OR SILT FENCE AT TOE OF SLOPE, SEE DETAILS AT LEFT OR RIGHT AND ALSO SHEET 2 OF 2.



LONGITUDINAL VIEW

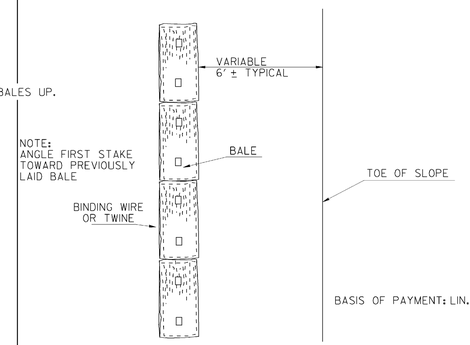
(DIMENSIONS ARE MEASURED VERTICALLY.)

BALED STRAW AT TOE OF SLOPE



ELEVATION

NOTE:
THE 6' ± OFFSET MAY BE VARIED TO SUIT LOCAL CONDITIONS.



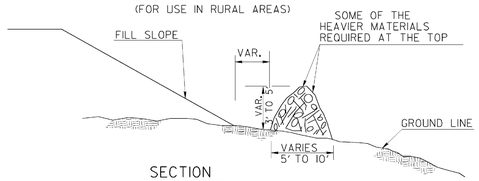
PLAN

NOTE:
BALED STRAW IS USED IN TYPICAL RURAL AREAS WHERE FILLS ARE FROM 5 FT. TO 10 FT. HIGH, FOR DITCH CHECKS, AND AS SPECIFIED ELSEWHERE. (See Sh. 2 of 2)

SYNTHETIC HAY BALES OF TYPE WHICH HAVE BEEN CLASSIFIED AS "ACCEPTED" BY THE D.O.T. OFFICE OF MATERIALS & RESEARCH MAY BE USED AS AN ALTERNATE TO BALED STRAW AS APPROVED BY THE ENGINEER.

BRUSH BARRIER DETAILS

(FOR USE IN RURAL AREAS)



SECTION

NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.

FRONT VIEW

NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BY	REV. & REDR. REVISION	9-01 DATE

TEMPORARY SILT FENCE
BALED STRAW EROSION CHECK
BRUSH BARRIER DETAILS

(SHEET 1 OF 2)

D-24(a)

3/1/2007 GPLN

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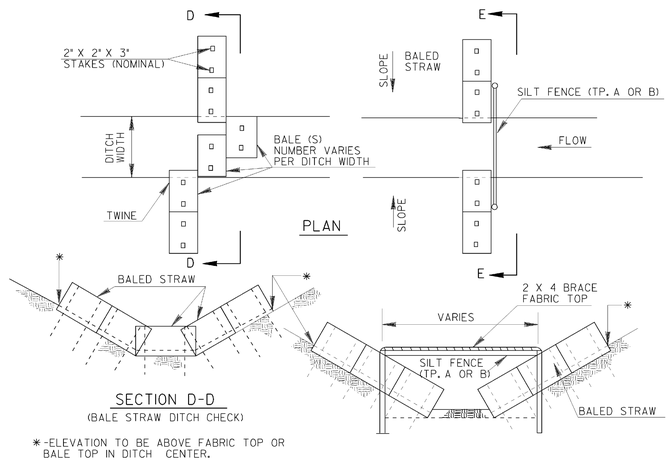
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No.
56-006

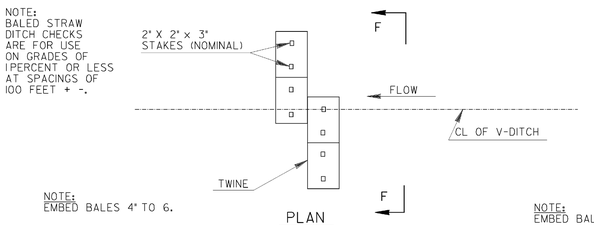
RELEASED FOR CONSTRUCTION 12/02/10

TYPICAL LOCATIONS IN DITCHES

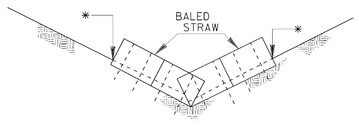


* -ELEVATION TO BE ABOVE FABRIC TOP OR BALE TOP IN DITCH CENTER.

NOTE:
BALED STRAW DITCH CHECKS ARE FOR USE ON GRADES OF 1PERCENT OR LESS AT SPACINGS OF 100 FEET + -.

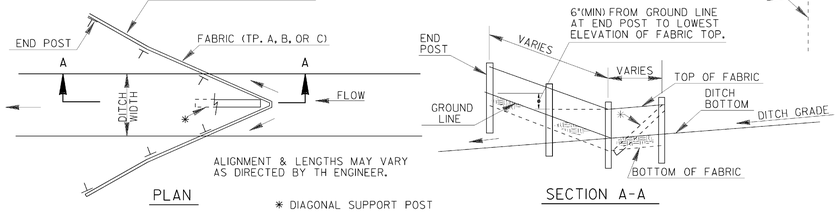


NOTE:
EMBED BALES 4" TO 6.



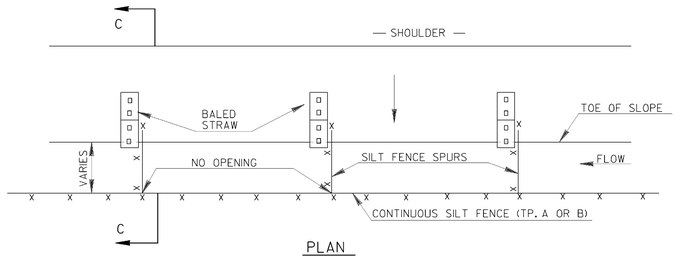
NOTE:
EMBED BALES 4" TO 6".

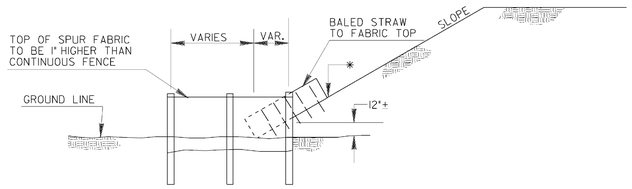
GRADE OF DITCH OR SLOPE	TYPE OF SILT FENCE	SPACING (METERS)
LESS THAN 1%	TYPE B	100' +-
1% TO 2%	TYPE A	100' +-
2% TO 3%	TYPE A	50' +-
3% TO 4%	TYPE C	50' +-
4% TO 5%	TYPE C	25' +-

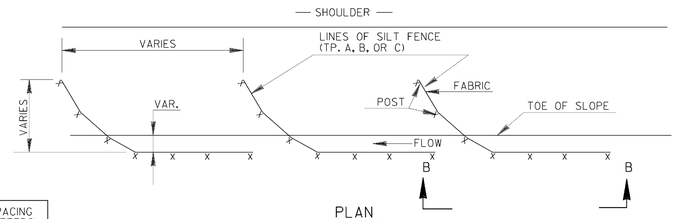


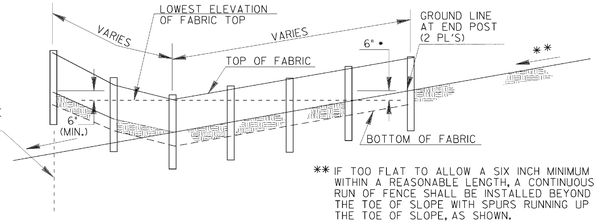
* DIAGONAL SUPPORT POST

TYPICAL LOCATIONS AT TOE OF SLOPES



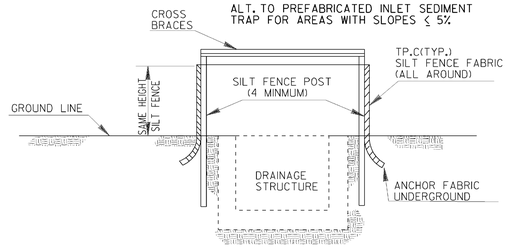






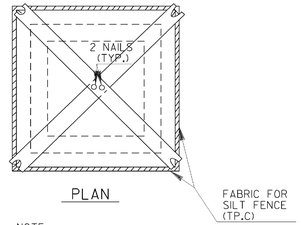
** IF TOO FLAT TO ALLOW A SIX INCH MINIMUM WITHIN A REASONABLE LENGTH, A CONTINUOUS RUN OF FENCE SHALL BE INSTALLED BEYOND THE TOE OF SLOPE WITH SPURS RUNNING UP THE TOE OF SLOPE, AS SHOWN.

TYPICAL LOCATION AROUND DROP INLETS



CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE



NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:

SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE, BALED STRAW EROSION CHECK, BRUSH BARRIER DETAILS" FOR BALED STRAW AT TOE OF SLOPE, FOR SILT FENCE ERECTION DETAILS, OR FOR BRUSH BARRIERS, WHERE REQUIRED.

BY	REVISION	DATE
MGR	REV. SILT FENCE REQ.	10-22-02
RMU	REV. & REDR.	9-01
J.M.W.	ADD "USES" GUIDE	5-94-93

CONSTRUCTION DETAILS
TYPICAL LOCATION DETAILS FOR SILT FENCES / BALED STRAW

(SHEET 2 OF 2)
NO SCALE

AUGUST 1989

D-24(b)

3/6/03 4:08:49 PM \\GDOT-DSN1\GOPLOT\QCF\qc_Tiff_Output.qcf dgrbyd M:\David\send_to_website\tempforchangetotif\d-24b.prf GO-RDG

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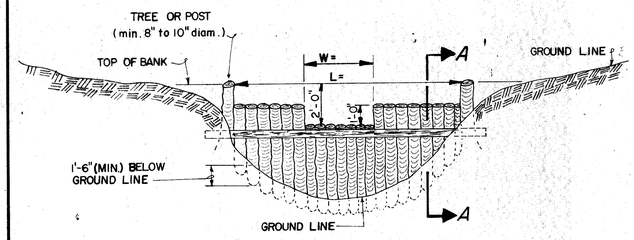
EROSION CONTROL CONSTRUCTION DETAILS

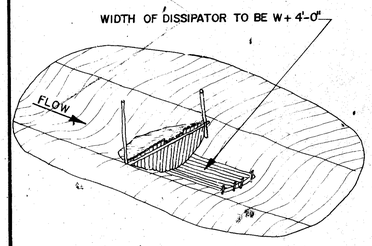
DRAWING No. 56-007

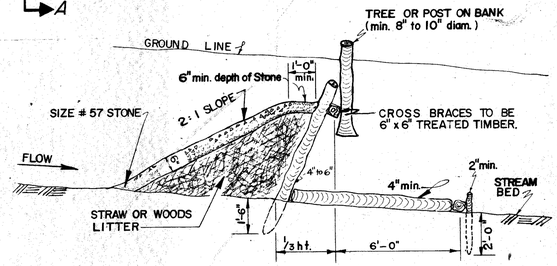
3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

TYPE 1

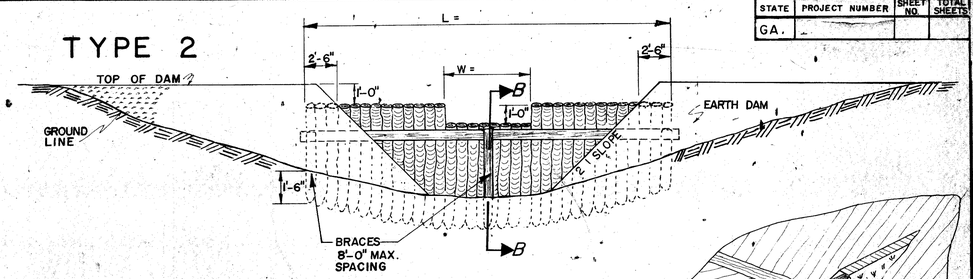


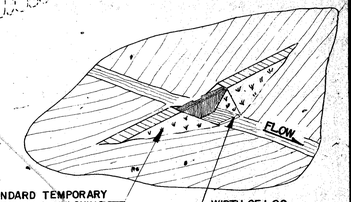


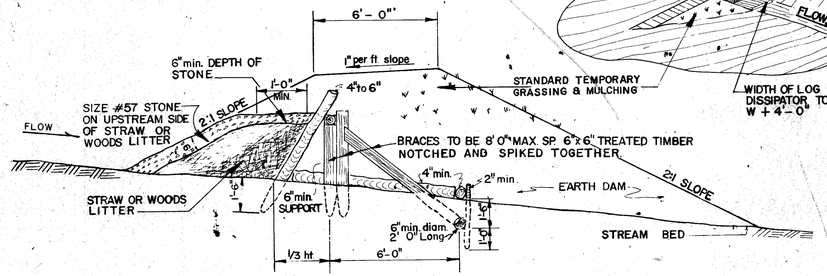


SECTION A - A

TYPE 2







SECTION B - B

PROFILE

USES:
THESE ITEMS ARE USED ON EASEMENTS AND IN RURAL WOODED AREAS. THE PURPOSE OF THE CHECK DAM IS TO REDUCE FLOW VELOCITY. LOWER VELOCITIES REDUCE EROSION POTENTIAL AND ALLOW SOME SUSPENDED SEDIMENT TO DEPOSIT. THEY ARE USED DOWNSTREAM OF DRAINAGE STRUCTURES BUT SHOULD NOT BE USED IN FLOWING STREAMS. CHECK DAMS ARE USUALLY CONSTRUCTED OF ALL NATURAL MATERIALS FROM THE AREA AND LEFT IN PLACE. THIS ITEM MAY BE USED ON THE R.O.W. BUT HAS BEEN LARGELY REPLACED BY DITCH CHECKS OF SILT FENCE OR HAY BALES OR RIPRAP. IT MAY BE USED IN AREAS WHERE BACKUP IS NEEDED TO PROTECT TROUT STREAMS OR LAKES FROM SILTATION PRODUCED BY MAJOR FLOOD EVENTS. THIS ITEM IS USED ON FOREST SERVICE LANDS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BY	REVISIONS	DATE
JLP	Checked	3-1-71
JLP	Arrows	12-7-72
R.M.U.	Slope Cover Reform 1	4-29-75

J.M.W. Added Class "B" Rip Rap 5-14-93

CONSTRUCTION DETAIL
EROSION CONTROL CHECK DAMS

AUGUST, 1969

DESIGNED JMW
DRAWN JMW
TRACED JMW
CHECKED JLP

SUBMITTED _____
APPROVED _____

D-25

K+E PLATE 1, PLAN-PROFILE KEUFFEL & ESSER CO.

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OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

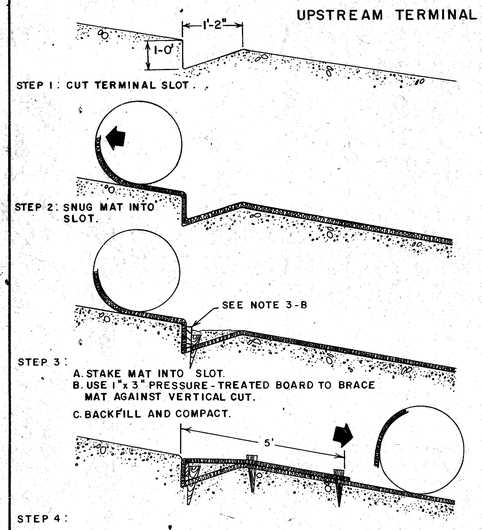
DRAWING No. 56-008

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

UPSTREAM TERMINAL



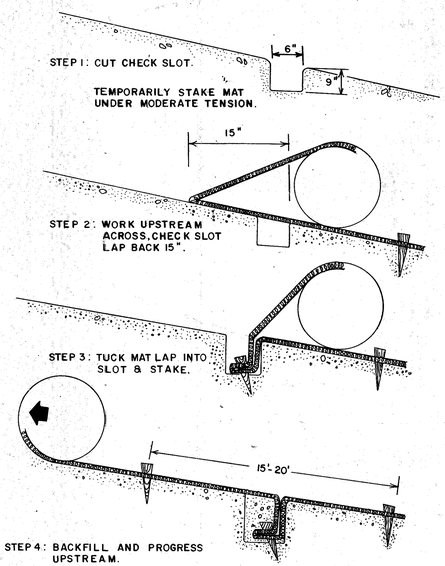
STEP 1: CUT TERMINAL SLOT.

STEP 2: SNUG MAT INTO SLOT.

STEP 3:
A. STAKE MAT INTO SLOT.
B. USE 1"x 3" PRESSURE-TREATED BOARD TO BRACE MAT AGAINST VERTICAL CUT.
C. BACKFILL AND COMPACT.

STEP 4:
A. REVERSE MAT ROLL DIRECTION TO OVERLAY CHECK SLOT.
B. STAKE MAT TO ANCHOR TERMINAL.

TRANSVERSE CHECK SLOT



STEP 1: CUT CHECK SLOT.

TEMPORARILY STAKE MAT UNDER MODERATE TENSION.

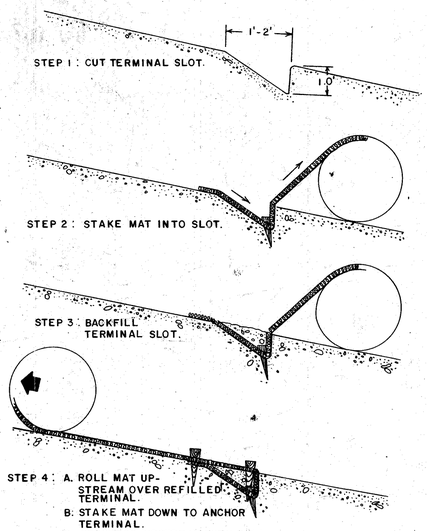
STEP 2: WORK UPSTREAM ACROSS, CHECK SLOT LAP BACK 15".

STEP 3: TUCK MAT LAP INTO SLOT & STAKE.

STEP 4: BACKFILL AND PROGRESS UPSTREAM.

PULL OUT TEMPORARY STAKES WHEN NO LONGER NEEDED FOR TENSIONING.

DOWNSTREAM TERMINAL

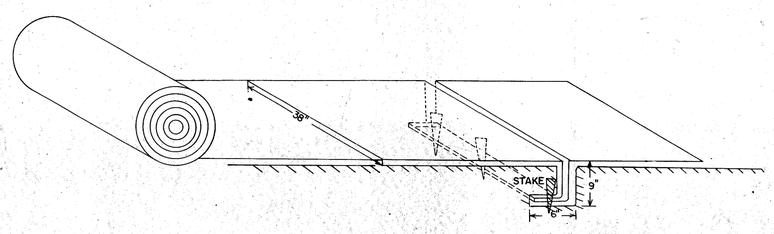


STEP 1: CUT TERMINAL SLOT.

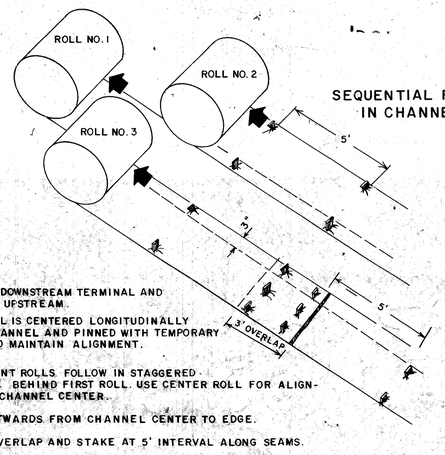
STEP 2: STAKE MAT INTO SLOT.

STEP 3: BACKFILL TERMINAL SLOT.

STEP 4: A. ROLL MAT UPSTREAM OVER REFILLED TERMINAL.
B. STAKE MAT DOWN TO ANCHOR TERMINAL.
C. PROGRESS UPSTREAM WITH ROLL.



PICTORIAL VIEW OF TRANSVERSE SLOT



SEQUENTIAL ROLL RUN OUT IN CHANNELS

1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

CONSTRUCTION DETAILS

PERMANENT SOIL REINFORCING MAT

DRAWN BY: K.L.J. AUG., 1988

D-35

FORM EPD0003

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

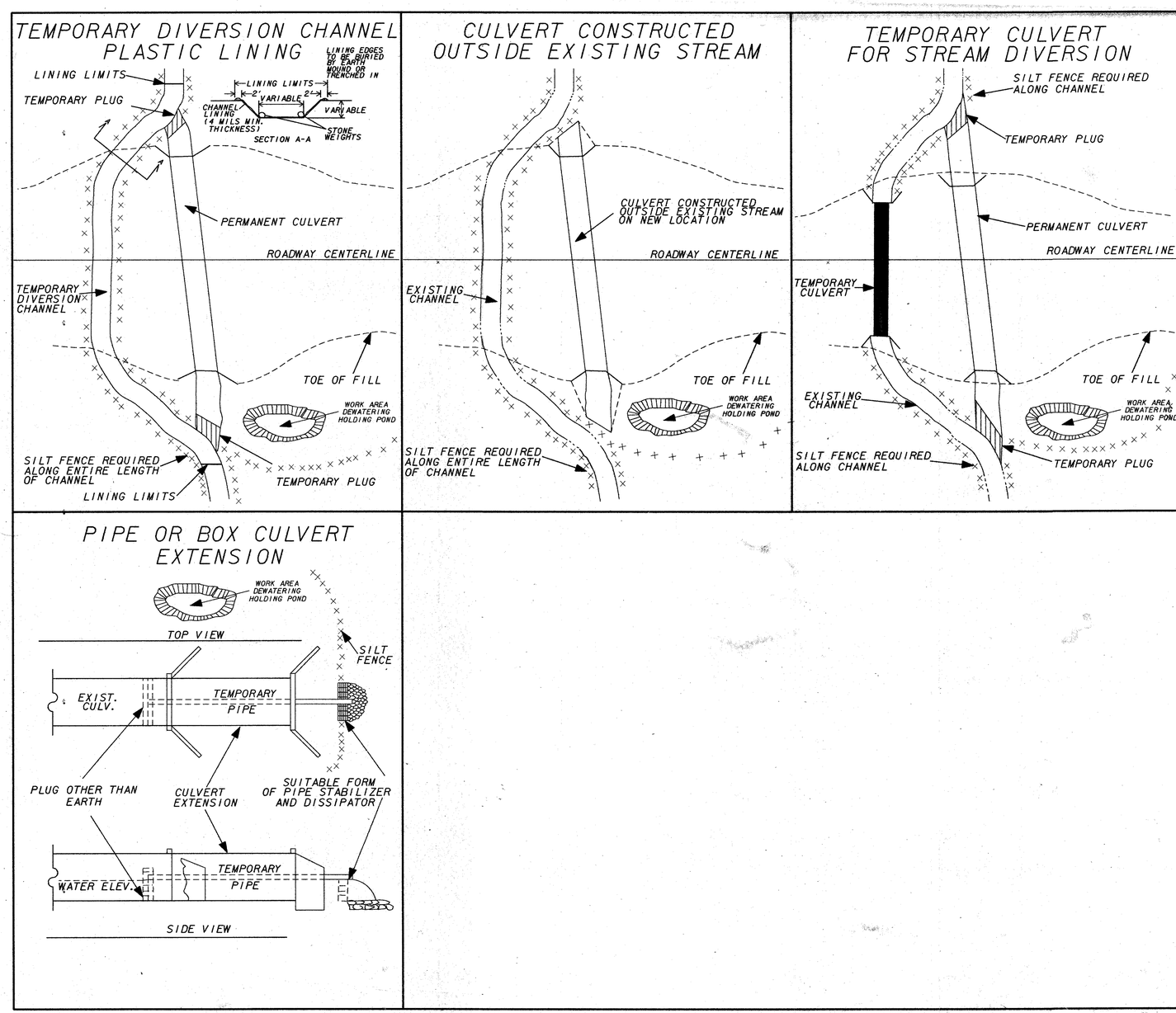
EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-009

RELEASED FOR CONSTRUCTION 12/02/10

Mon Jun 28 13:26:08 1993 GOO_BPRF02 DTRDDAD stream.prf

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



1. THESE DETAILS ARE NOT CONSTRUCTION DRAWINGS. THEY ARE ROUGH SKETCHES OF IDEAS. ALTERNATES MAY BE SUBMITTED BY THE CONTRACTOR IN THE EROSION CONTROL PLAN.
2. DIVERSION CHANNELS TO BE INCLUDED IN THE COST OF CULVERT, WHEN REQUIRED.
3. THE PLASTIC LINING SHALL BE PVC OR PE MATERIAL WITH A MINIMUM THICKNESS OF 6 MILS.
4. THE LAP OF THE SHEETS OF PLASTIC LINING SHALL BE A MINIMUM OF 2 FEET.
5. THE DIVERSION CHANNEL SHOULD BE THE SAME WIDTH AND DEPTH AS THE EXISTING CHANNEL.

BY	REVISION DATE
M.W.	JUNE 28, 1993
M.W.	MAY 14, 1993
M.W.	OCTOBER 23, 1992
M.W.	JUNE 28, 1989

GEORGIA DEPARTMENT OF TRANSPORTATION

EXAMPLES OF DIVERSION CHANNELS

D-38

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TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

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STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

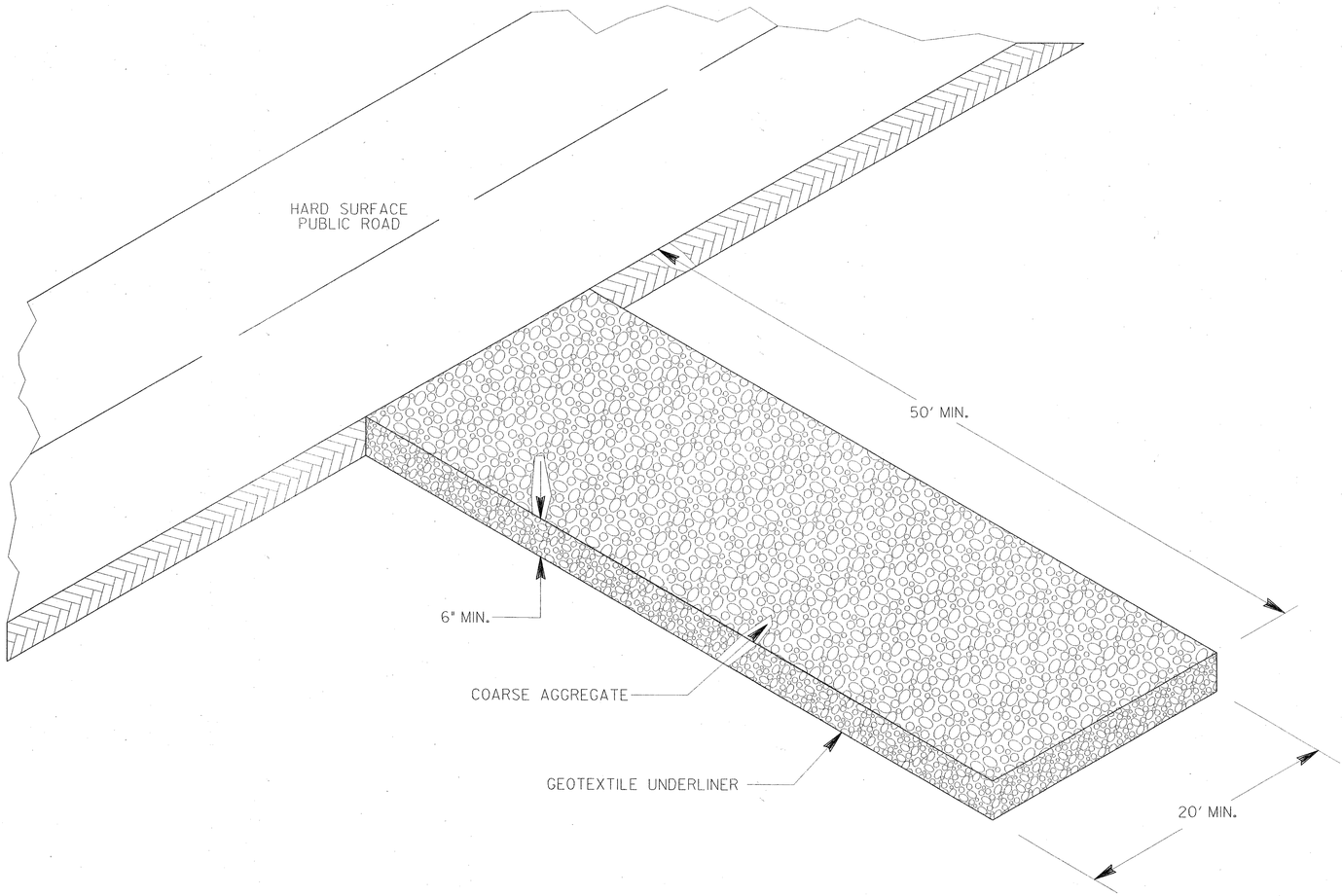
EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-010

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



MAINTENANCE

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5 - 3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

ITEM: 163-0300__CONSTRUCTION EXIT___EACH

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

CONSTRUCTION EXIT

NO SCALE — FEB., 2001

DATE / REVISION / BY

NUMBER D-41

PC90T8

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

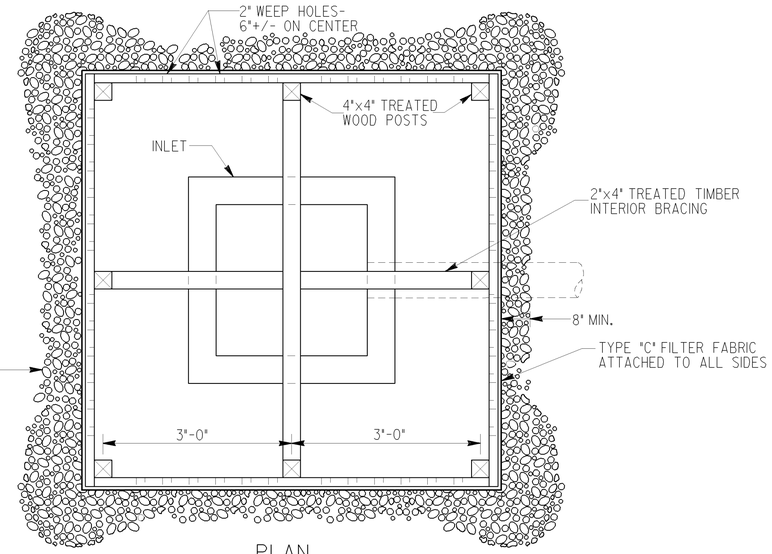
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-011

3/1/2007 GPLN

RELEASED FOR CONSTRUCTION 12/02/10

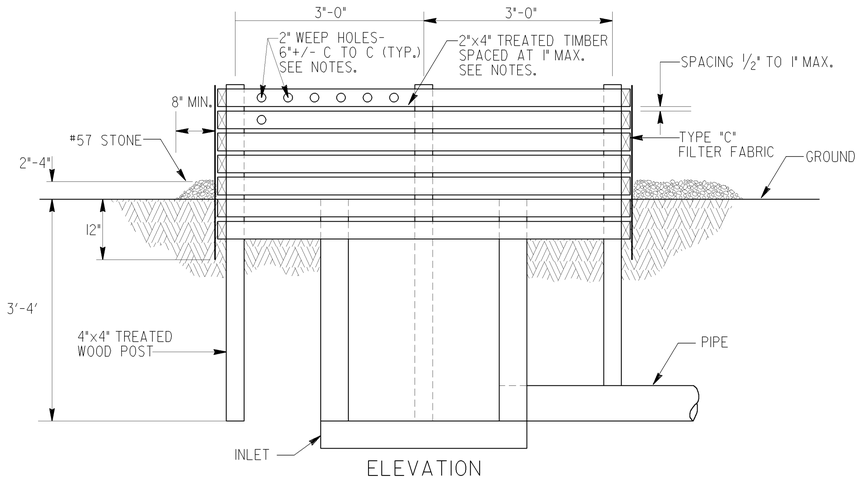


PLAN

NOTES:

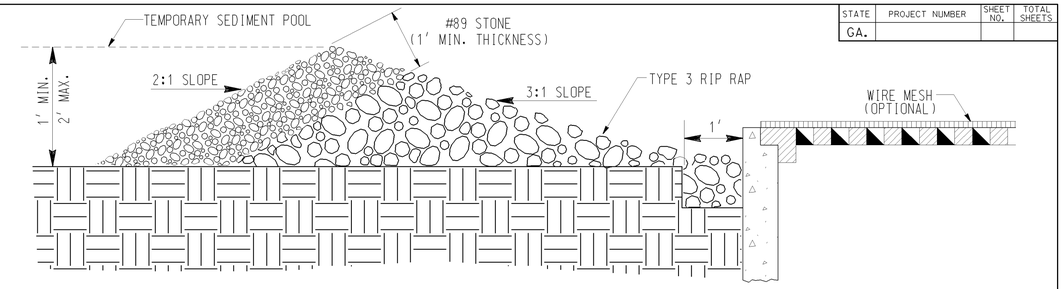
BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 1" APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.

GRAVEL SHALL BE PLACED OUTSIDE THE BOX, ALL AROUND THE INLET, TO A DEPTH OF 2 TO 4 INCHES. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED.

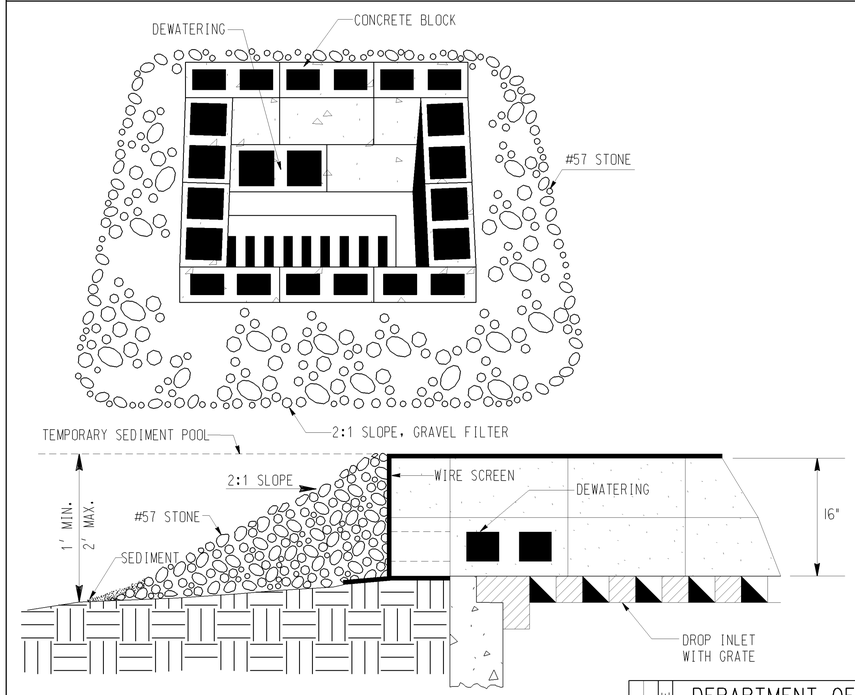


ELEVATION

BAFFLE BOX (Sd2-B)



GRAVEL DROP INLET PROTECTION
(GRAVEL DONUT) Sd2-G



BLOCK & GRAVEL DROP
INLET PROTECTION
(Sd2-Bg)

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP _____ EACH

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
INLET SEDIMENT TRAPS
BAFFLE BOX Sd2-B
BLOCK AND GRAVEL DROP INLET PROTECTION Sd2-Bg
GRAVEL DROP INLET PROTECTION Sd2-G
NO SCALE MAY 2008

NUMBER D-42

THE LPA GROUP
TRANSPORTATION CONSULTANTS
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NORCROSS, GEORGIA 30092
(770) 263-9118

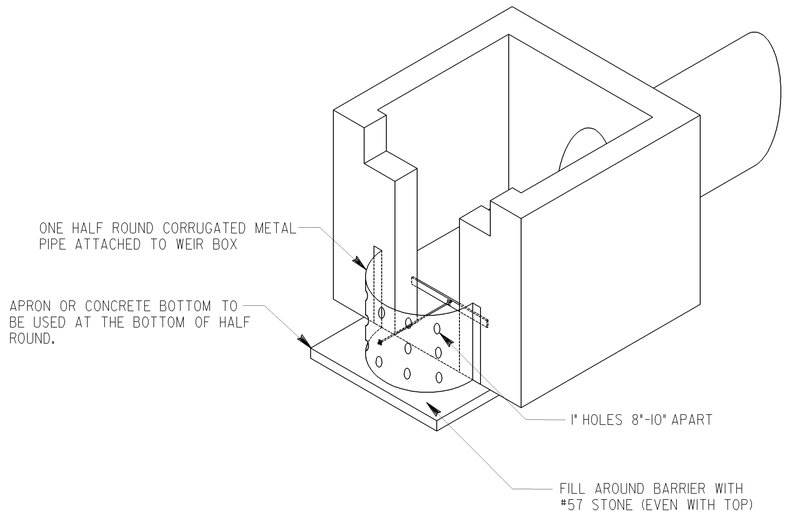
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY
EROSION CONTROL
CONSTRUCTION DETAILS

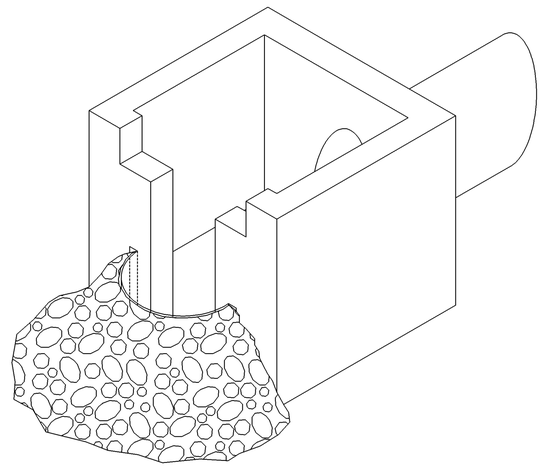
DRAWING No. 56-012

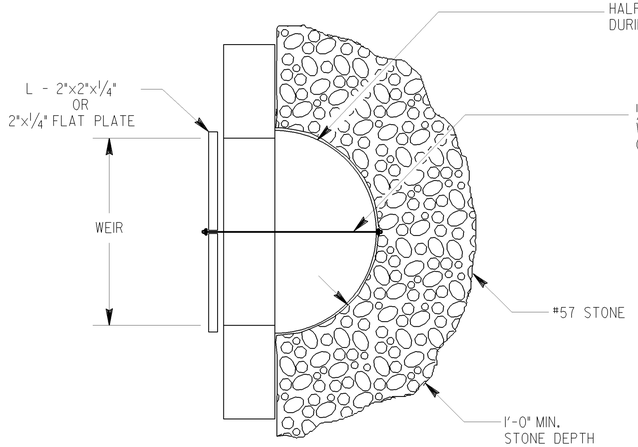
3/1/2007 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



ISOMETRICS





ATTACHMENT DETAIL PLAN

GENERAL NOTES

1. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRE TOTAL DRAINAGE AREA.
2. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA IN THE PROJECT.
3. THE HEIGHT OF THE RETROFIT SHOULD BE APPROXIMATELY ONE HALF THE HEIGHT OF THE STORMWATER MANAGEMENT OUTLET STRUCTURE. THE POND MUST BE CAPABLE OF STORING THE REQUIRED VOLUME OF SEDIMENT IN ADDITION TO THE REQUIRED STORMWATER VOLUME. THE REQUIRED SEDIMENT STORAGE VOLUME SHALL BE ACHIEVED BY EITHER EXCAVATING THE BASIN OR RAISING THE OUTLET STRUCTURE'S INVERT TO ACHIEVE 67 CUBIC YARDS PER ACRE OF SEDIMENT STORAGE. REMOVE SEDIMENT WHEN ONE THIRD OF THE SEDIMENT STORAGE CAPACITY, NOT TOTAL POND CAPACITY, IS LOST TO SEDIMENT ACCUMULATION.
4. NEVER TO BE USED ON EXPOSED PIPE END OR WINGED HEADWALL.
5. DIAMETER OF HALF ROUND PIPE SHOULD BE 1.5 TIMES THE DIAMETER OF THE PRINCIPAL PIPE OUTLET OR WIDER THAN THE GREATEST WIDTH OF THE CONCRETE WEIR.

NOTE: RETROFIT ORIFICES AND WEIRS TO ACCOUNT FOR STORAGE DEPTHS AS INDICATED IN THE CHART.

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE RETROFIT, STA. NO.- ____ EACH

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
RETROFITTING STRUCTURE FOR TEMPORARY SEDIMENT FILTER
PERFORATED HALF-ROUND PIPE WITH STONE FILTER

NO SCALE — MAY 2008

DATE / REVISION / BY

NUMBER D-44

RELEASED FOR CONSTRUCTION 12/02/10

3/1/2007 GPLN

THE LPA GROUP
TRANSPORTATION CONSULTANTS
3595 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9118

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-013

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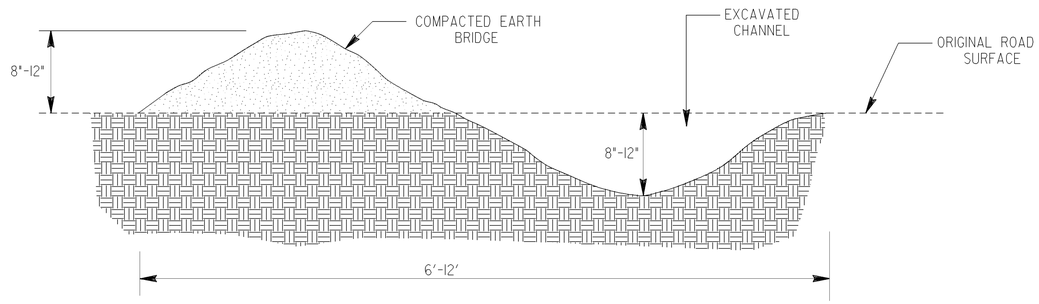
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TYPICAL DIVERSION ACROSS ROAD

CONSTRUCTION SPECIFICATIONS FOR DIVERSIONS

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONAL MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.

2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

3. ALL FILLS SHALL BE MACHINE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED DIVERSION.

4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.

5. DIVERSION CHANNEL SHALL BE STABILIZED.

6. PAYMENT IS INCLUDED IN THE OVERALL PRICE BID FOR EARTHWORK. NO SEPERATE PAYMENT SHALL BE MADE FOR DIVERSIONS.

MAXIMUM SPACING BETWEEN DIVERSIONS	
ROAD GRADE (PERCENT)	DISTANCE BETWEEN DIVERSIONS (FEET)
1	400
2	250
5	125
10	80
15	60
20	50
STABLE OUTLETS SHALL BE PROVIDED FOR EACH DIVERSION.	

BY	REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
TYPICAL DIVERSION
ACROSS ROAD

NO SCALE — MAY 2008

NUMBER D-47

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REVISION DATES

STATE OF GEORGIA
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OFFICE: INNOVATIVE PROGRAM DELIVERY

EROSION CONTROL CONSTRUCTION DETAILS

DRAWING No. 56-014