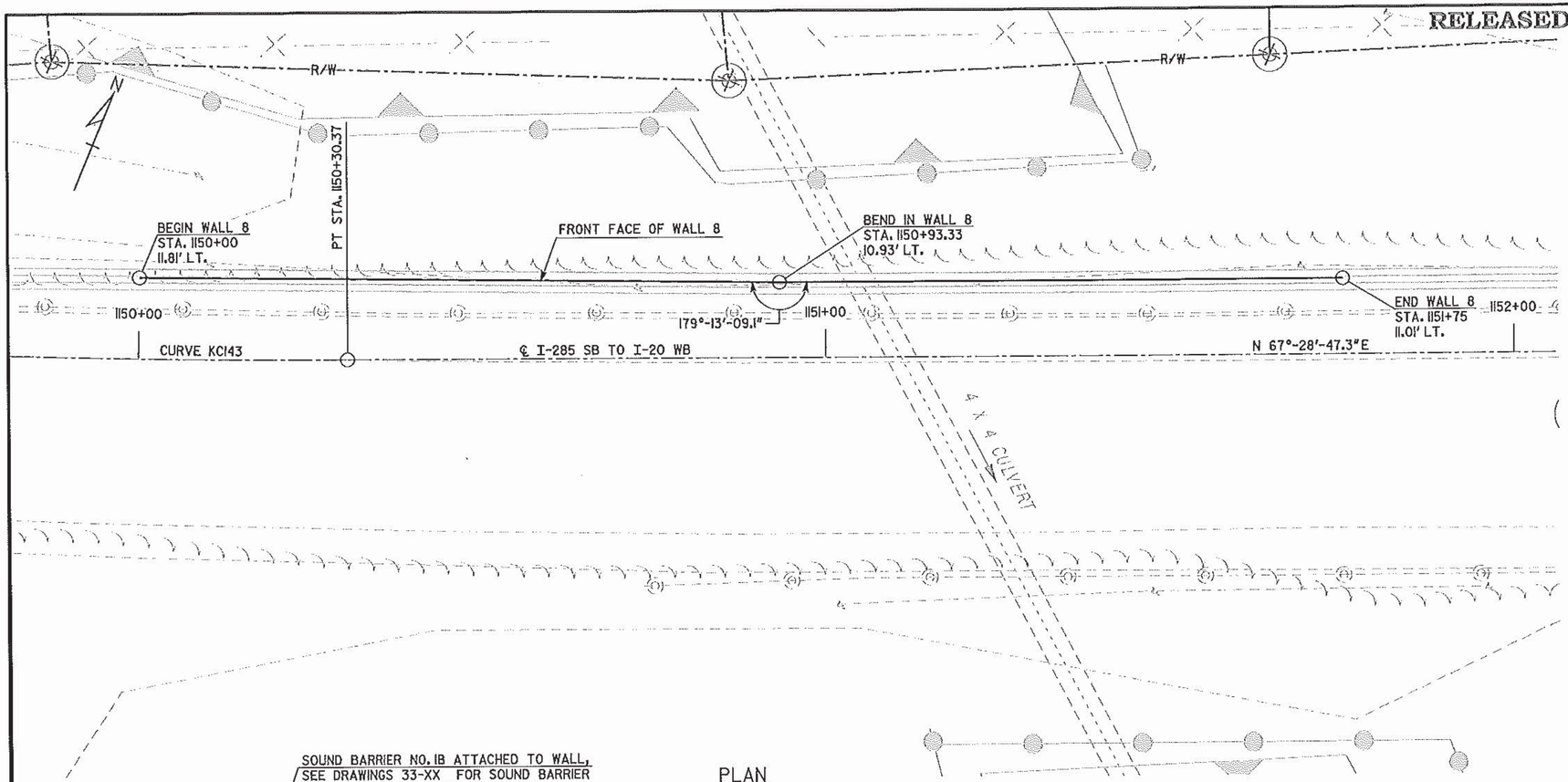
RELEASED FOR CONSTRUCTION: 12/05/11

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0009542	469	759



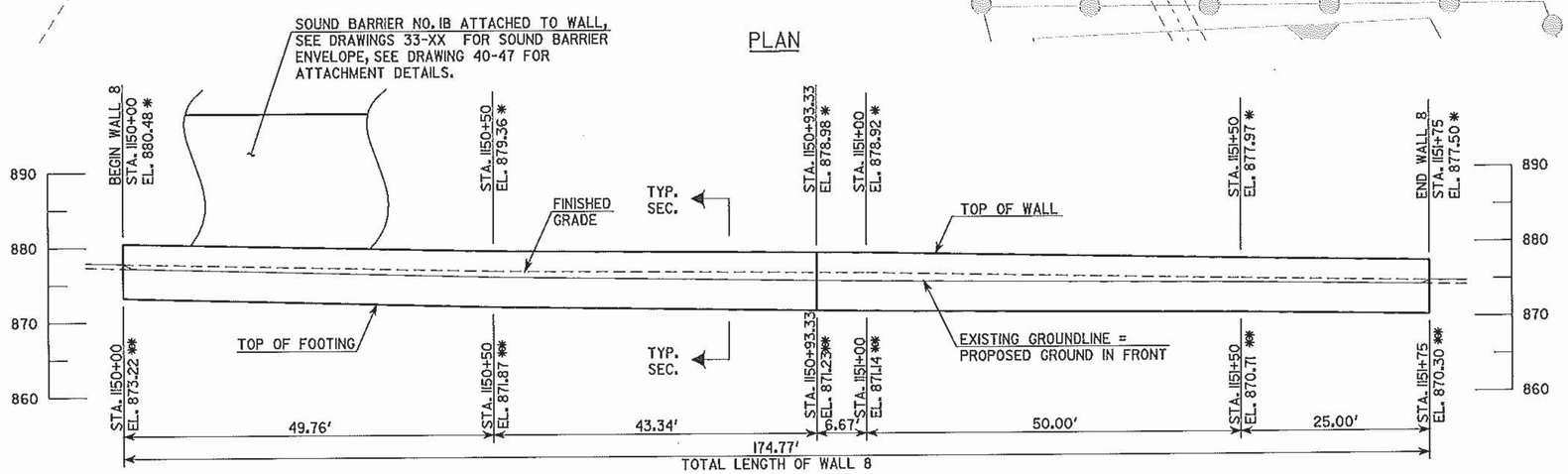
PLAN

WALL NO. 8 DESIGN DATA

SPECIFICATIONS	AASHTO 17TH EDITION, 2002
CONCRETE	CLASS A, f'_c = 3,000 PSI
REINFORCEMENT STEEL	GRADE 60, f_y = 60,000 PSI
DESIGN SOIL PRESSURE	3000 PSF
COHESION	0 PSF
ANGLE OF INTERNAL FRICTION	28°
UNIT WEIGHT	120 PCF
COEFFICIENT OF SLIDING FRICTION	0.35

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-3107	126	CY	CLASS A CONCRETE, RETAIN WALL
511-1000	14258	LB	BAR REINF STEEL



ELEVATION

LOOKING AT BACK FACE OF WALL

EXIST. 4' X 4' CULVERT
STA. 1151+10.58
EL. 839.38

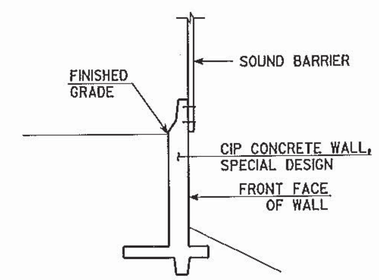
PVI STA. 1150+00	PVI STA. 1150+50	PVI STA. 1151+00	PVI STA. 1151+50	PVI STA. 1152+00
EL. 878.21	EL. 877.27	EL. 876.48	EL. 875.78	EL. 874.82
-1.8359%	-1.0477%	-1.0507%	-1.8889%	

PROFILE GRADE DATA

I-285 SB TO I-20 WB

HORIZONTAL CURVE DATA

CURVE KC143
P.I. STA. 1146+31.20
Δ = 31°-17'-45.4"
D = 3°-49'-11"
R = 1500.00'
T = 420.16'
L = 819.33'



TYPICAL SECTION

SCALE: NONE

SEE DRAWING 31-26 FOR DETAILS

NOTES:
1. * ELEVATION OF TOP OF WALL AT BACK FACE, TYP.
2. ** ELEVATION AT TOP OF FOOTING, TYP.

12.5.11

GEORGIA REGISTERED NO. 24732 PROFESSIONAL ENGINEER ALBERT W. BOWMAN

WALL NO. 8

THE LPA GROUP A UNIT OF MICHAEL BAKER CORPORATION

THE LPA GROUP INCORPORATED
TRANSPORTATION CONSULTANTS
3535 ENGINEERING DRIVE
NORCROSS, GEORGIA 30092
(770) 263-9110

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

WALL PLAN AND ELEVATION - CIP

I-20 CD LANES

DEKALB COUNTY 0009542

SCALE: 1" = 10'-0" DECEMBER 2011

DRAWING NO. 31-24

WALL SHEET 1 OF 1

BY	REVISIONS	DATE

DESIGNED BSB | CHECKED ANZ | REVIEWED WEI/WMD
DRAWN BSB | DESIGN GROUP AWB | APPROVED BFR

12/20/2011 4:24:36 PM R:\123300\Walls\final\W8-01.dgn