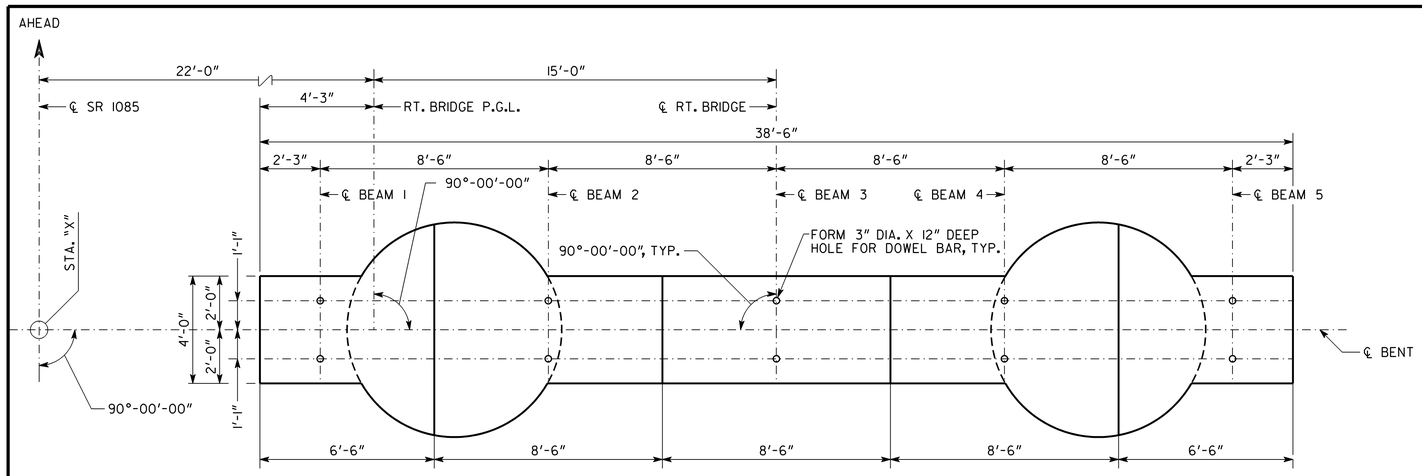
VOID

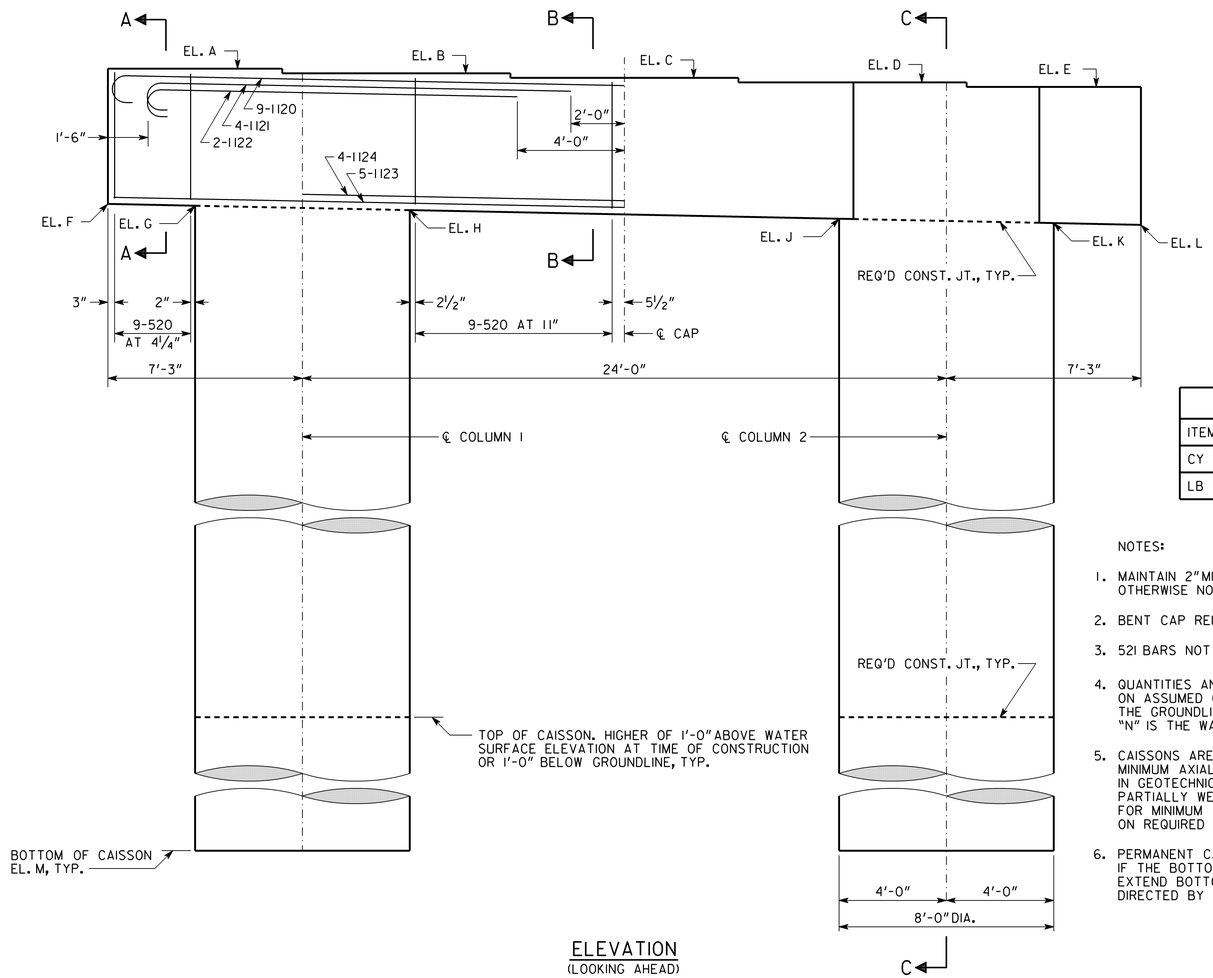
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	EDS-0000-00(346)	705	999



PLAN

STA. "X"	
BENT 2	835+30
BENT 3	836+50
BENT 4	837+70
BENT 5	838+90
BENT 6	840+10
BENT 7	841+30
BENT 8	842+50
BENT 9	843+90
BENT 10	845+30
BENT 11	846+70
BENT 12	847+90

GEOTECHNICAL TABLE		
BENT	MIN. AXIAL RESISTANCE	MIN. EMBEDMENT
2 THRU 7, 12	1450 KIPS	47 FT.
8 AND 11	1525 KIPS	49 FT.
9 AND 10	1725 KIPS	55 FT.



ELEVATION
(LOOKING AHEAD)

TABLE OF ELEVATIONS - RIGHT BRIDGE													
	A	B	C	D	E	F	G	H	J	K	L	M	N
BENT 2	292.69	292.47	292.26	292.05	291.84	287.63	287.55	287.35	286.95	286.75	286.67	188.0 ±	242.5
BENT 3	296.27	296.06	295.85	295.63	295.42	291.22	291.14	290.94	290.53	290.33	290.25	178.0 ±	238.5
BENT 4	299.25	299.04	298.82	298.61	298.40	294.19	294.11	293.91	293.51	293.31	293.23	173.0 ±	240.5
BENT 5	301.55	301.33	301.12	300.91	300.70	296.49	296.41	296.21	295.81	295.61	295.53	165.0 ±	242.5
BENT 6	303.16	302.94	302.73	302.52	302.31	298.10	298.02	297.82	297.42	297.22	297.14	163.0 ±	244.0
BENT 7	304.11	303.90	303.69	303.48	303.26	299.06	298.98	298.78	298.37	298.17	298.09	160.0 ±	245.0
BENT 8	304.18	303.97	303.75	303.54	303.33	299.12	299.04	298.84	298.44	298.24	298.16	158.0 ±	245.0
BENT 9	303.55	303.34	303.13	302.91	302.70	298.50	298.42	298.22	297.81	297.61	297.53	150.0 ±	235.0
BENT 10	302.03	301.81	301.60	301.39	301.18	296.97	296.89	296.69	296.29	296.09	296.01	148.0 ±	235.0
BENT 11	299.73	299.51	299.30	299.09	298.88	294.67	294.59	294.39	293.99	293.79	293.71	154.0 ±	237.5
BENT 12	297.73	297.52	297.31	297.10	296.88	292.68	292.60	292.40	291.99	291.79	291.71	155.0 ±	238.5

SUBSTRUCTURE QUANTITIES - RIGHT BRIDGE											
ITEM	BENT 2	BENT 3	BENT 4	BENT 5	BENT 6	BENT 7	BENT 8	BENT 9	BENT 10	BENT 11	BENT 12
CY CLASS "AA" CONCRETE	206.4	234.6	238.3	239.4	239.8	239.6	239.9	267.3	261.7	251.2	240.1
LB BAR REINF STEEL	33315	37732	38315	38469	38561	38515	38561	42824	41966	40309	38561

NOTES:

1. MAINTAIN 2" MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
2. BENT CAP REINFORCEMENT IS SYMMETRICAL ABOUT CENTERLINE CAP.
3. 521 BARS NOT SHOWN IN ELEVATION VIEW.
4. QUANTITIES AND REINFORCEMENT LENGTHS WERE CALCULATED BASED ON ASSUMED CONTROL ELEVATION "N". CONTROL ELEVATION "N" IS THE GROUNDLINE AT BENTS 2 THRU 8, 11 AND 12. CONTROL ELEVATION "N" IS THE WATER SURFACE ELEVATION AT BENTS 9 AND 10.
5. CAISSONS ARE DESIGNED USING 2.5 KSF SKIN FRICTION TO ACHIEVE A MINIMUM AXIAL RESISTANCE AT GROUNDLINE. SEE MIN. AXIAL RESISTANCE IN GEOTECHNICAL TABLE FOR MAGNITUDE. EMBED CAISSONS INTO PARTIALLY WEATHERED ROCK. SEE MIN. EMBEDMENT IN GEOTECHNICAL TABLE FOR MINIMUM REQUIRED EMBEDMENT. LENGTH SUBJECT TO CHANGE BASED ON REQUIRED LOAD TEST. SEE SPECIAL PROVISION 524.
6. PERMANENT CASING WILL BE REQUIRED TO INSTALL ALL CAISSONS. IF THE BOTTOM OF THE PERMANENT CASING IS LOWERED DURING DRILLING, EXTEND BOTTOM OF CAISSON DEEPER, INCLUDING REINFORCEMENT, AS DIRECTED BY THE ENGINEER TO COMPENSATE FOR LOSS OF CAPACITY.

BRIDGE NO. 4 RIGHT

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

INTERMEDIATE BENTS 2 THRU 12 - RIGHT BRIDGE
SR 1085 (FALL LINE FREEWAY)
OVER OCONEE RIVER
BALDWIN COUNTY EDS00-0000-00(346)

NO SCALE AUGUST 2010

DRAWING NO. 35-88
BRIDGE SHEET 15 OF 21

REVISIONS: DATE | BY

DESIGNED SKG | CHECKED JTM | REVIEWED WMD/WEI
DRAWN SKG/KHB | DESIGN GROUP IAB | APPROVED PVL

B0000346BR 4 LT & RT.DGN