RELEASED FOR CONSTRUCTION - 12/05/11

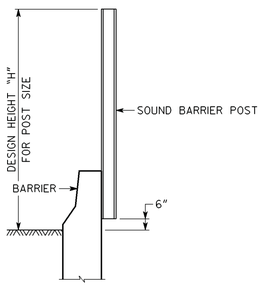
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

FOUNDATION DEPTH AND DIAMETER ⚠

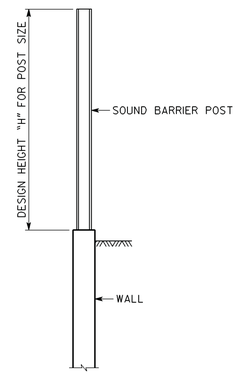
DESIGN HEIGHT "H"	PIEDMONT (POST SPACING)									COASTAL PLAIN (POST SPACING)								
	10'-0"			15'-0"			20'-0"			10'-0"			15'-0"			20'-0"		
	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	CORNER POST DIAMETER	DEPTH	DIAMETER	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

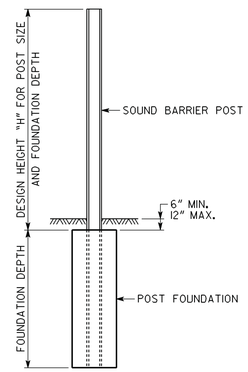
DESIGN HEIGHT "H"	TYPE B PANELS					TYPE C, F AND G PANELS				
	GROUND MOUNTED (POST SPACING)			WALL MOUNTED	BARRIER MOUNTED	GROUND MOUNTED (POST SPACING)			WALL MOUNTED	BARRIER MOUNTED
	10'-0"	15'-0"	20'-0"	10'-0"	10'-0"	10'-0"	15'-0"	20'-0"	10'-0"	10'-0"
6'-0"	W8X10	W8X10	W10X12	W8X10	W8X24	W10X22	W10X22	W10X22	W10X22	W8X24
8'-0"	W8X10	W10X12	W12X14	W8X10	W8X24	W10X22	W10X22	W10X22	W10X22	W8X24
10'-0"	W10X12	W12X16	W12X19	W10X12	W8X24	W10X22	W10X22	W10X22	W10X22	W8X24
12'-0"	W12X14	W12X19	W14X22	W10X15	W8X24	W10X22	W10X22	W12X26	W10X22	W8X24
14'-0"	W12X19	W14X22	W14X30	W10X19	W8X24	W10X22	W12X26	W14X30	W10X22	W8X24
16'-0"	W14X22	W14X30	W14X34	W10X22	W8X24	W12X26	W14X30	W14X34	W10X22	W8X24
18'-0"	W14X26	W14X34	W14X43	W10X26	W8X31	W12X26	W14X34	W14X43	W10X26	W8X31
20'-0"	W14X30	W14X43	W14X53	W10X33	W10X33	W14X30	W14X43	W14X53	W10X33	W10X33
22'-0"	W14X34	W14X48	W14X61	W10X39	W10X39	W14X34	W14X48	W14X61	W10X39	W10X39
24'-0"	W14X38	W14X61	W14X74	W10X45	W12X40	W14X38	W14X61	W14X74	W10X45	W12X40
26'-0"	W14X43	W14X61	W14X82		W12X45	W14X43	W14X61	W14X82		W12X45
28'-0"	W14X53	W14X74	W14X90			W14X53	W14X74	W14X90		
30'-0"	W14X61	W14X82	W14X109			W14X61	W14X82	W14X109		



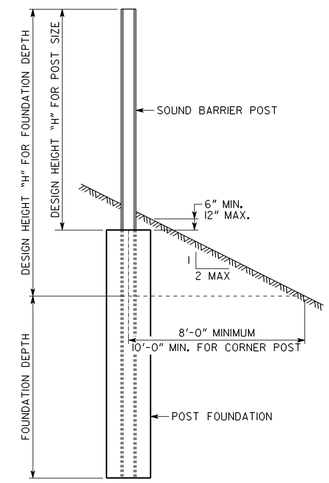
BARRIER MOUNTED SOUND BARRIER



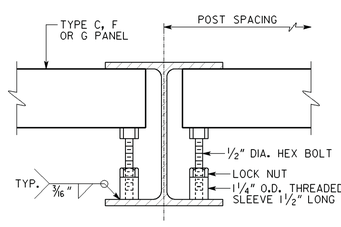
WALL MOUNTED SOUND BARRIER



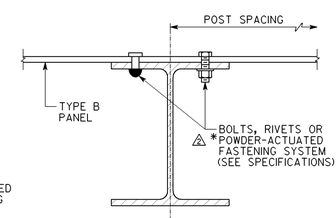
GROUND MOUNTED SOUND BARRIER



GROUND MOUNTED SOUND BARRIER



NOTE: 1/2" 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.

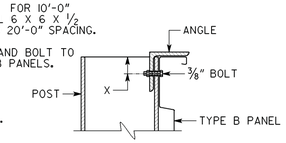
CONCRETE: POST FOUNDATION ----- CLASS A, f'_c = 3000 PSI

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 1/2 FOR 15'-0" AND 20'-0" SPACING.

PAINT ANGLE AND BOLT TO MATCH TYPE B PANELS.

X = 1 5/8" FOR L 4 X 4 X 3/8 AND 2 1/2" FOR L 6 X 6 X 1/2.



ANGLE ATTACHMENT DETAILS
NO SCALE

DATE	REVISION	BY
1-08-08	REVISED TABLE	SWW
9-6-05	REVISED NOTE	DLC
2-24-05	REVISED NOTE	DLC

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 1 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.
40-047