AS-BUILT PLANS 12/12/12

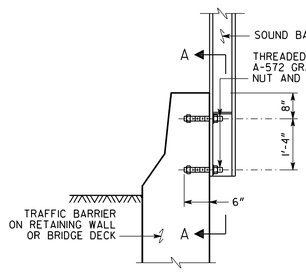
POST SIZE	GAGE FOR BOLTS
W8X24	3 1/2"
W8X31	5 1/2"
W10X33	5 1/2"
W10X39	5 1/2"
W12X40	5 1/2"
W12X45	5 1/2"

△ CAST-IN-PLACE		
DESIGN HEIGHT "H" △	ANCHOR DIAMETER D" △	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.

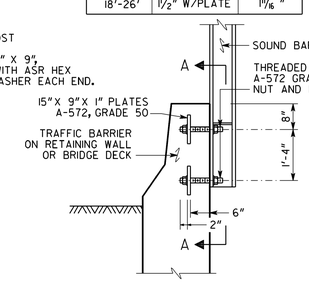
SOUND BARRIER SHALL ONLY BE ATTACHED TO BARRIERS OR RETAINING WALLS THAT HAVE BEEN SPECIFICALLY DESIGNED FOR THE LOADING FROM SOUND BARRIER.

△

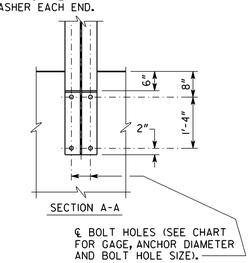


ANCHOR DETAIL FOR SOUND BARRIER BETWEEN 6'-0" AND 18'-0"
CAST-IN-PLACE

△△



ANCHOR DETAIL FOR SOUND BARRIER BETWEEN 18'-0" AND 26'-0"
CAST-IN-PLACE



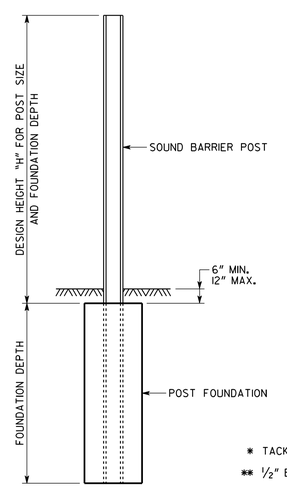
△

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"

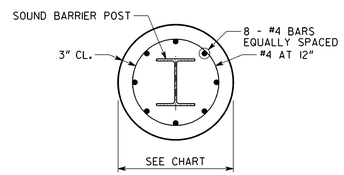
* REQUIRED FOR BARRIER MOUNTED SOUND BARRIER ONLY. OPTIONAL FOR GROUND MOUNTED SOUND BARRIER.

NOTE: MAXIMUM HEIGHT ON BRIDGE = 12'-0"
MAXIMUM HEIGHT ON M.S.E. WALL = 18'-0"

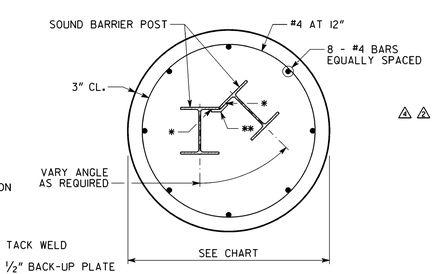
DETAILS FOR BARRIER MOUNTED SOUND BARRIER



GROUND MOUNTED SOUND BARRIER
SCALE: 3/8" = 1'-0"

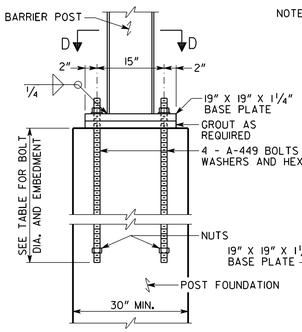


SECTION B - B



CORNER POST BASE DETAIL

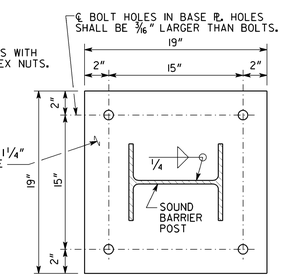
DETAILS FOR GROUND MOUNTED SOUND BARRIER



△△ 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.

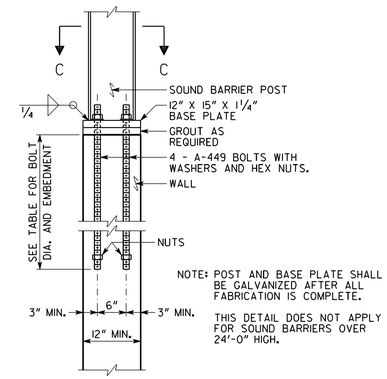
THIS DETAIL DOES NOT APPLY FOR SOUND BARRIERS OVER 24'-0" HIGH.



△△ 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"

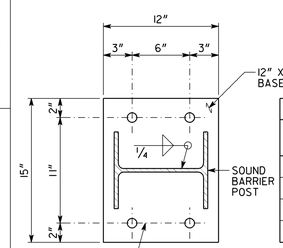
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



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

REVISIONS	BY	DATE
REMOVED ADHESIVE ANCHOR	SHW	01-10-12
REVISED TABLE AND DETAIL	SHW	11-16-11
REVISED PLATE SIZES	SHW	07-13-10
REVISED PANEL SUPPORT PLATE	SHW	08-17-08
REVD. TABLES AND DETAILS	SHW	01-08-08
REVD. TABLE AND NOTE	DLC	02-24-05

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 SHW
DESIGN GROUP SHW

REVIEWED JPT/MCD
APPROVED PVL

NUMBER N-1 B
PAGE 2 OF 2

SOUNDBARRIER.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
CONSTRUCTION DETAILS

DRAWING No. 40-050