

RELEASED FOR CONSTRUCTION - 12/05/11

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"

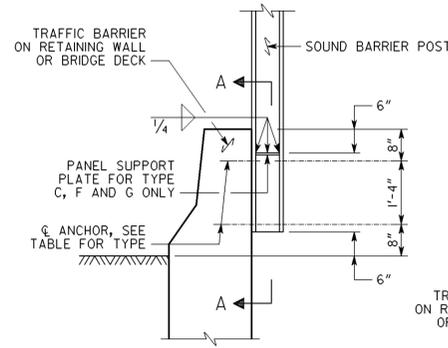
DESIGN HEIGHT "H"	ANCHOR DIAMETER	BOLT HOLE SIZE
6'	3/8"	9/16"
8'	1/2"	5/8"
10'	5/8"	3/4"
12'	3/4"	15/16"
14'	7/8"	1 1/16"
16'	1"	1 3/16"
18'	1 1/8"	1 5/16"
18'-26'	1 1/2" W/PLATE	1 1/8"

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.

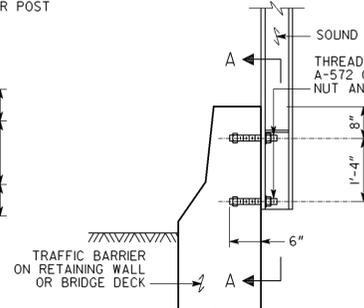
\*\* AT CONTRACTOR'S OPTION, OTHER CHEMICAL ADHESIVE ANCHORS ON THE GA DOT QUALIFIED PRODUCTS LIST MAY BE USED TO ATTACH SOUND BARRIER POSTS TO THE BACK OF TRAFFIC BARRIER. CONTRACTOR SHALL SUBMIT MANUFACTURER'S BROCHURE AND LOAD CAPACITY INFORMATION TO THE ENGINEER FOR APPROVAL BEFORE ORDERING ANCHORS. EPOXY RESIN ADHESIVE ANCHORS SHALL NOT BE USED FOR GROUND MOUNTED OR WALL MOUNTED SOUND BARRIERS.

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 3/8" 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"

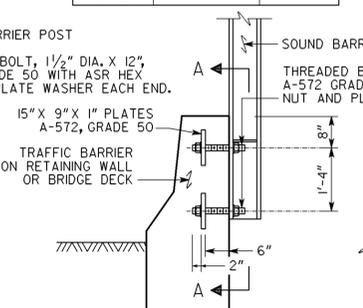


DETAIL FOR SOUND BARRIER MOUNTED ON TRAFFIC BARRIER DRILLED IN ANCHOR

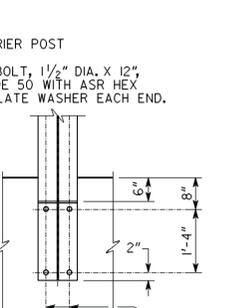
NOTE: MAXIMUM HEIGHT ON BRIDGE = 12'-0"  
MAXIMUM HEIGHT ON M.S.E. WALL = 18'-0"



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

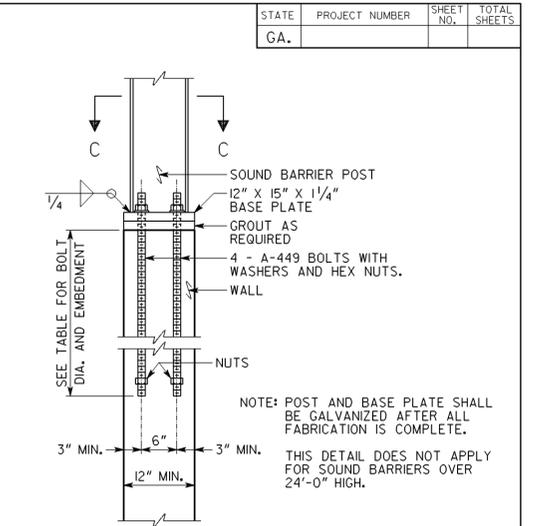


ANCHOR DETAIL FOR SOUND BARRIER BETWEEN 18'-0" AND 26'-0" CAST-IN-PLACE

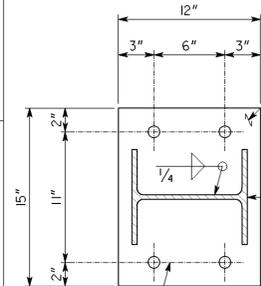


SECTION A-A  
BOLT HOLES (SEE CHART FOR GAGE, ANCHOR DIAMETER AND BOLT HOLE SIZE).

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



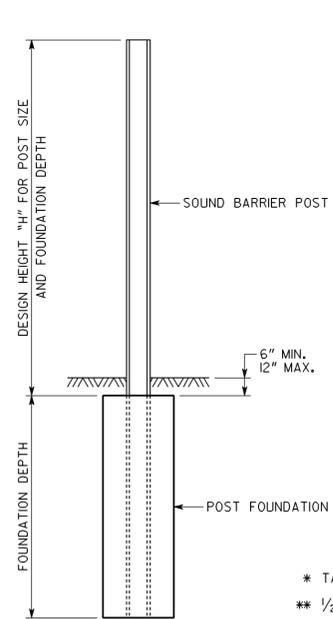
DETAILS FOR WALL MOUNTED SOUND BARRIER 10 FOOT POST SPACING



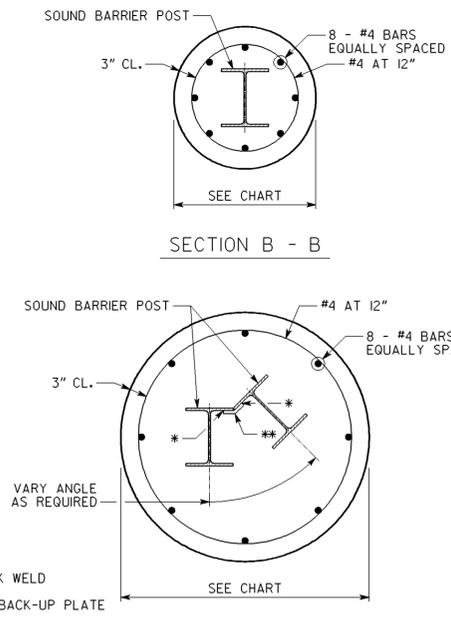
SECTION C - C  
SCALE: 2" = 1'-0"

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"

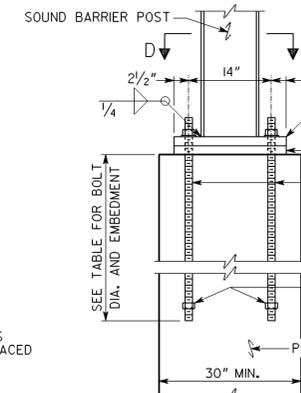
DETAILS FOR WALL MOUNTED SOUND BARRIER 10 FOOT POST SPACING



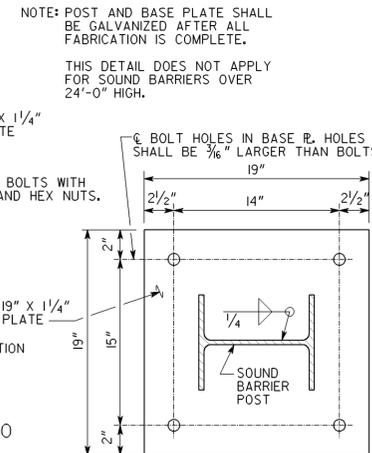
GROUND MOUNTED SOUND BARRIER  
SCALE: 3/8" = 1'-0"



DETAILS FOR GROUND MOUNTED SOUND BARRIER  
CORNER POST BASE DETAIL



DETAIL FOR ALTERNATE POST TO FOUNDATION CONNECTION DETAIL 10, 15 AND 20 FOOT POST SPACING



SECTION D-D  
SCALE: 2" = 1'-0"

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"

REV. NO.	DATE	DESCRIPTION
8-17-08		
1-08-08		
12-24-08		

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  
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