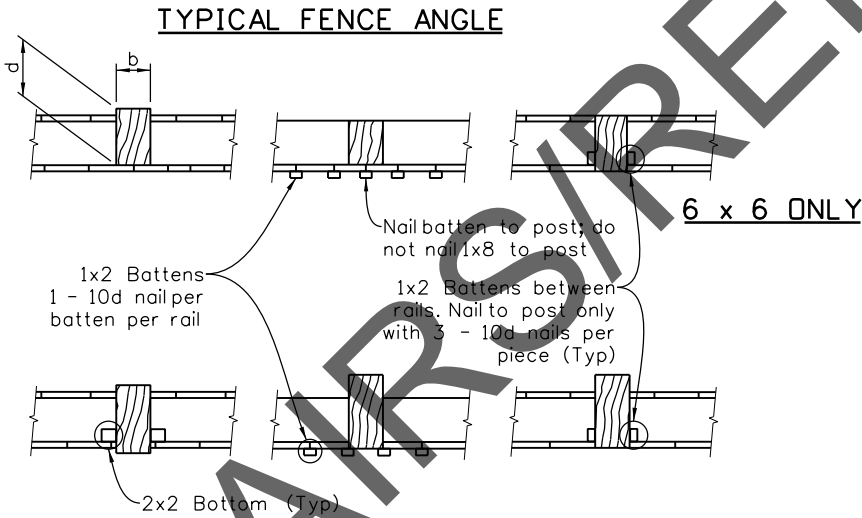
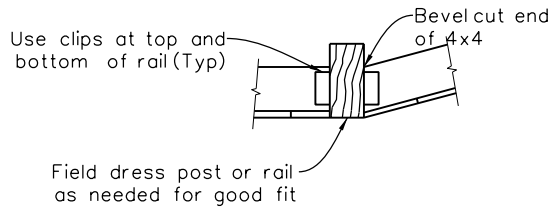
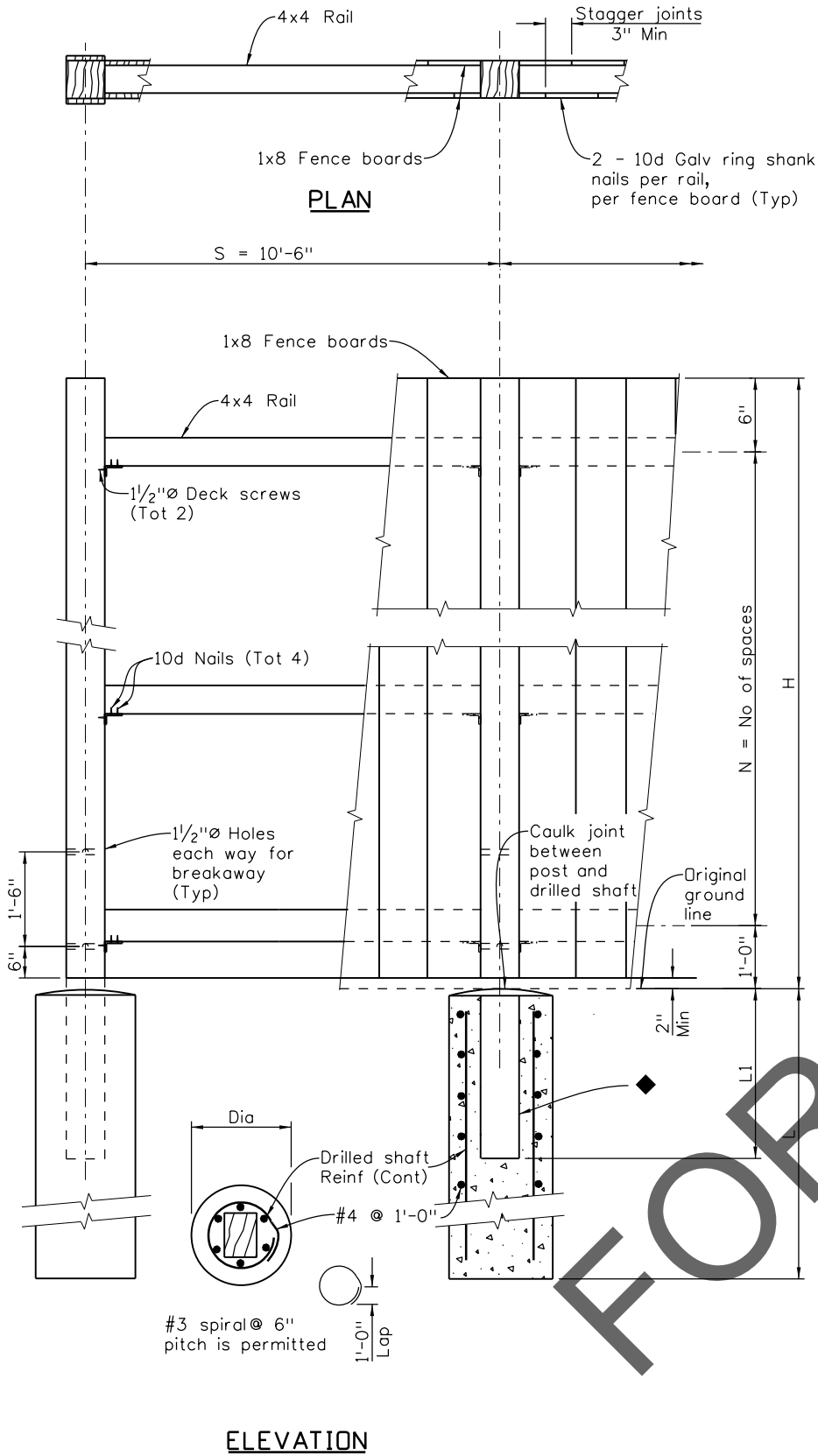
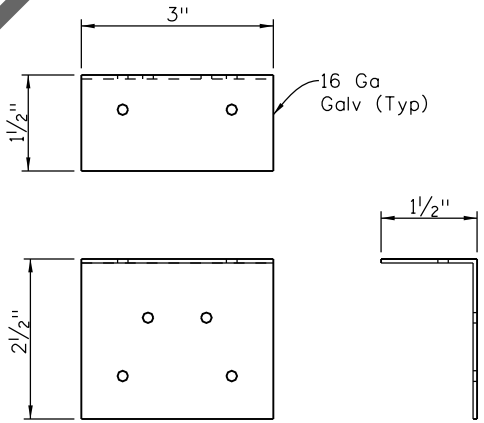


Revision Dates	9/ 24
3/23	
10/13	
3/07	
4/02	
11/99	
3/99	
8/95	

INITIALS	DESIGN	DATE	DETAIL	DATE	QUANTITY	DATE
By						
Checked By						



**VARIATIONS IN FENCE POST INSTALLATION**



**CLIP ANGLE DETAIL**  
(or approved equal)

**NOTES:**

1. Timber shall conform to subsection 508.02 of the Standard Specifications with stresses fb = 1000 psi (Min) and fv = 65 psi (Min)
2. All wood dimensions are based on nominal sizes and must be adjusted for dressed material if used.
3. Grade 60 reinforcing steel is required for #4 bars and larger.

**DESIGN DATA:**

AASHTO Standard Specifications for Structural Design of Sound Barrier, 1989

Reinforcing steel: #4 bars and larger, fs = 24,000 psi, fy = 60,000 psi

Wind Load = 12 psf For walls 6'-0" to 15'-0" high

Class B Concrete fc = 1,200 psi, n = 9

**SOIL PARAMETERS FOR DRILLED SHAFT DESIGN:**

Compact coarse and fine sand, medium stiff clay weight = 120 Lb/CF, φ = 35°

Special design is required when the height of the sound barrier exceeds 14'-0"

Height	Post		DRILLED SHAFT				S	H	N
	b	d	L ▲	L1 ▲	Dia ▲	Reinf			
6'-0"	6"	6"	4'-0"	3'-0"	1'-4"	6#6	10'-6"	6'-0"	2
8'-0"	6"	6"	4'-6"	3'-6"	1'-4"	6#6	10'-6"	8'-0"	3
10'-0"	6"	8"	5'-0"	4'-0"	1'-6"	6#6	10'-6"	10'-0"	3
12'-0"	6"	10"	5'-6"	4'-0"	1'-8"	6#6	10'-6"	12'-0"	4
14'-0"	6"	10"	6'-0"	4'-0"	1'-8"	6#6	10'-6"	14'-0"	4

▲ Minimum

◆ Wrap embedded portion of post in two layers of 90 Lb roofing felt, over one later of 4 mil polyethylene. Hold in place with packaging tape.o

All seals for this set of drawings are applied to the cover page(s)

Print Date: \$DATE\$  
File Name: Sheet\_B-607-SB1.dgn  
Horiz. Scale: None Vert. Scale: As Noted  
Unit Information Unit Leader Initials

**Sheet Revisions**

Date:	Comments	Init.

**Colorado Department of Transportation**



2829 West Howard Place, 3rd Floor  
Denver, CO 80204  
Phone: 303-512-4079  
FAX: 303-757-9197

Staff Bridge Branch

Initials

**As Constructed**

No Revisions:

Revised:

Void:

**WOOD SOUND BARRIER  
(TIMBER POST)**

Designer: XXXXXXXX	Structure Numbers	X-XX-XX
Detailer: XXXXXXXX		X-XX-XX
Sheet Subset: BRIDGE	Subset Sheets: BXX of XXX	

**Project No./Code**

Project Number

Code

Sheet Number