GENERAL NOTES

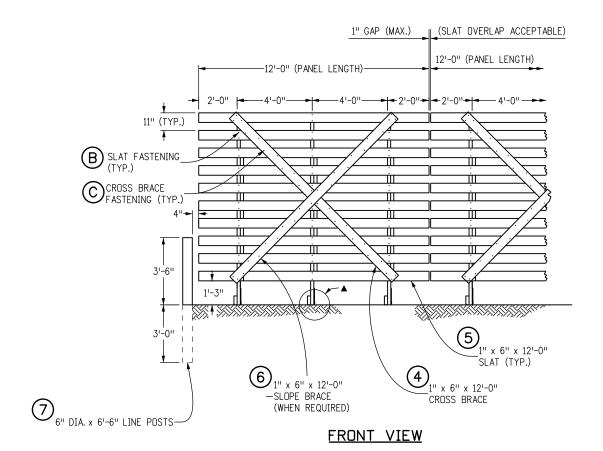
- 1. FRAME CONNECTIONS * (A1)
- (A1) (A2
- A. SILL AND FRAME ASSEMBLY CONNECTIONS SHALL BE MADE WITH $\frac{1}{2}$ IN. DIA. MACHINE BOLTS (A 307) WITH A MINIMUM OF $\frac{1}{4}$ IN. USABLE THREAD LENGTH. NYLON INSERT LOCKNUTS SHALL BE PROVIDED WITH EACH BOLT. BOLT LENGTHS INDICATED HEREIN ARE BASED ON THE MOST TYPICAL WOOD THICKNESS ENCOUNTERED. BECAUSE OF THE VARIANCE OF ROUGH SAWN WOOD THICKNESS, IT MAY BE NECESSARY TO PROVIDE BOLTS OF DIFFERENT LENGTHS, ADDITIONAL WASHERS, OR BOTH TO MEET THE FOLLOWING REQUIREMENTS.
- B. BOLTED CONNECTIONS SHALL BE TIGHTENED TO A CLAMP TIGHT CONDITION. DO NOT CRUSH WOOD FIBERS BY OVER TIGHTENING CONNECTIONS. AFTER THE CONNECTIONS ARE TIGHTENED, THE LOCKOUT SHALL BE COMPLETELY THREADED ON THE BOLT WITH A MINIMUM OF ONE THREAD PROTRUDING BEYOND THE NUT, AND A MAXIMUM OF \(\frac{1}{2} \) IN. OF THE THREAD PROTRUDING BEYOND THE NUT. ADDITIONAL WASHERS MAY BE REQUIRED TO SHIM THE CONNECTION SO THAT NO MORE THAN \(\frac{1}{2} \) IN. OF THREAD PROTRUDES. THIS REQUIREMENT PROVIDES A MINIMUM OF \(\frac{1}{4} \) IN. OF THREAD REMAINING FOR FURTHER TIGHTENING AS THE WOOD CONTINUES TO WEATHER.

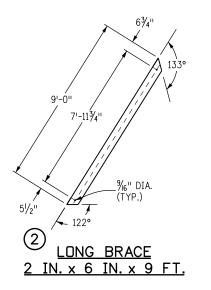
2. <u>SLAT FASTENING</u> B

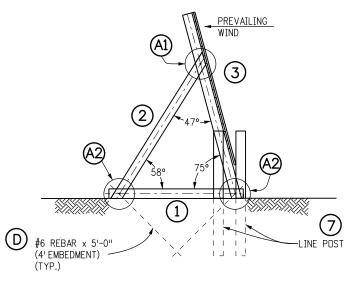
SLATS SHALL BE ATTACHED TO EACH FRONT VERTICAL FRAME WITH 2-10D RING SHANK OR SCREW SHANK NAILS (FULL-HEAD). THE USE OF NAILING GUNS IS ACCEPTABLE.

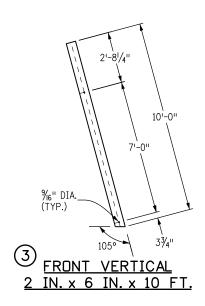
- 3. CROSS BRACE AND SLOPE BRACE FASTENING (C)
 - A. CROSS BRACES SHALL BE FASTENED TO SLATS WITH 2-8D COMMON NAILS AT EACH LOCATION AND SHALL BE CLINCHED.
 - B. SLOPE BRACES ARE REQUIRED IF THE GROUND SLOPE IS 5:1 OR STEEPER. WHEN THE SLOPE BRACE IS REQUIRED, IT SHALL BE ATTACHED IN THE SAME MANNER AS THE CROSS BRACE.
- 4. ANCHORS ▲ (
 - A. THE ENDS OF EACH SILL SHALL BE ANCHORED WITH A DRIVEN #6
 REBAR CLAMPED TO THE SILL WITH AN ANCHOR CLIP AS SHOWN
 IN THE DETAILS ON SHEET 2.
 - B. WHERE REBARS CANNOT BE DRIVEN AS SPECIFIED DUE TO ROCK CONDITIONS, REBAR SHALL BE ANCHORED IN THE ROCK. A 1/8 IN. DIA. HOLE SHALL BE DRILLED A MINIMUM OF 6 IN. INTO SOLID ROCK AND ALL LOOSE MATERIAL AND DUST REMOVED. THE REBAR SHALL BE INSTALLED WITH AN APPROVED EPDXY GROUT IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - C. THE ROCK ANCHOR SHALL BE FASTENED TO THE FRAME AS SHOWN IN THE PLANS EXCEPT THAT THE ANCHOR MAY BE PERPENDICULAR TO THE SILL. IF NO ANCHORS CAN BE DRIVEN, FOUR ROCK ANCHORS, TWO FOR EACH OUTER SILL, SHALL BE INSTALLED PER PANEL.
 - D. SOIL REMOVED PRIOR TO DRILLING SHALL BE REPLACED AND COMPACTED.

- 5. LINE POSTS (7)
 - A. TWO LINE POSTS SHALL BE PLACED AT THE ENDS OF EACH RUN OF SNOW FENCE AS SHOWN.
 - ▲ SEE ANCHOR CLIP CONNECTION DETAILS ON SHEET 2.
- * SEE FRAME CONNECTION DETAIL ON SHEET 2.









END VIEW

WOOD SNOW FENCE 10 FOOT HIGH D-607-11

APPLICATION: USE SHRP-W/FR-91-106 SNOW FENCE GUIDE TO DETERMINE PLACEMENT.

HISTORY: PERMANENT SNOW FENCE DESIGN DEVELOPED FROM SHRP PROJECT,
U.S. DEPT OF AGRICULTURE, UNIVERSITY OF WYOMING, AND WYDOT.
DESIGN GUIDE MAY BE ACCESSED ON PROJECT SPECIAL DETAILS WEB PAGE
ON THE M STANDARDS WEBSITE.

PLEASE CALL THE STANDARDS ENGINEER AT 303-757-9021 FOR ANY QUESTIONS. PLEASE DELETE THIS BLOCK BEFORE USING THIS DETAIL ON A PROJECT.

DATE: MARCH 24, 2006 SRJ/LTA

Computer File Inf	ormation	
Creation Date: 03/24/06	Initials: SRJ	\mathbb{R} -X
Last Modification Date: 03/24/06	Initials: LTA	$\mathbb{R}=\mathbb{X}$
Full Path: www.dot.state.co.us/DesignSu	pport/	\mathbb{R} -X
Drawing File Name: D06070110102.dgn		\mathbb{R}
CAD Ver.: MicroStation V8 Scale: Not to	Scale Units: English	(R-X)

	Sheet Revisions				
	mm/dd/yy		XXXXXX		
)	mm/dd/yy	XXXXXX	XXXXXX		
)	mm/dd/yy	XXXXXX	XXXXXX		
)	mm/dd/yy	XXXXXX	XXXXXX		
)	mm/dd/yy	XXXXXXX	XXXXXX		



Region, Unit Intials/Intials

As Cons	structed	WOOD	SNOW FENCE 10 FOOT HIGH		Project No./Code		
No Revisions:	mm/dd/yy			D-607-11			Number
Revised:	mm/dd/yy	Designer:	XXXXXXXX				Code
		Detailer:	XXXXXXX				
Void:	mm/dd/yy	Sheet Subset	: XXXXXXX	Subset Sheets	s: XXX	of XXX	Sheet Number: 1 of 2

LUMBER FOR ONE 12 FT. WIDE PANEL

ITEM NO.	NO.OF PIECES	NO. OF PIECES LUMBER SIZE			
1	3	2" x 6" x 7'-0"	SILL		
2	3	2" x 6" x 9'-0"	LONG BRACE		
3	3	2" x 6" x 10'-0"	FRONT VERTICAL		
7	A 4	6" DIA. (MIN.) x 6'-6"	LINE POST		
FRAME MEMBERS 1, 2, 3 AND 7 SHALL BE PRESSURE TREATED LUMBER IN ACCORDANCE WITH SUBSECTION 710.08 (AASHTO M133).					
4	1	1" x 6" x 12'-0"	CROSS BRACE		
5	10	1" x 6" x 12'-0"	SLAT		
6	1	1" x 6" x 12'-0"	SLOPE BRACE		

NOTE: SLOPE BRACE (6) IS REQUIRED WHEN GROUND SLOPE IS 5:1 OR STEEPER

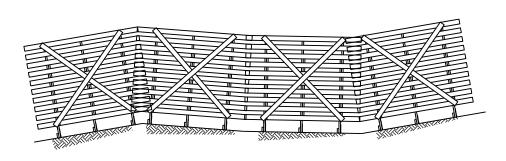
▲ NOTE: TWO LINE POSTS SHALL BE PLACED AT THE ENDS OF EACH RUN OF SNOW FENCE.

 \overline{V} Use alkaline copper (acq) or copper azole (cba) for the pressure treated portions of the fence unless chromated copper arsenate (cca) is approved by the engineer.

ONE THREAD (MIN.) ADDITIONAL WASHERS IF NECESSARY

BOLTING DETAIL

A MINIMUM OF $\frac{1}{4}$ IN. OF THREAD SHALL REMAIN FOR FURTHER TIGHTENING.



PANEL LAPPING DETAIL

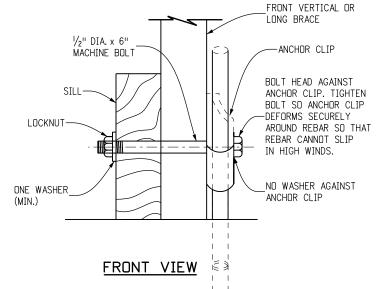
NOTE: PANELS SHALL BE OVERLAPPED. A MAXIMUM 1 IN. GAP IS ACCEPTABLE. SEE FRONT VIEW ON SHEET 1.



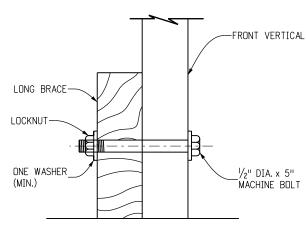
NOTE	QUANTITY	DESCRIPTION
A2	Ø 6	$\frac{1}{2}$ " DIA. \times 6" MACHINE BOLT WITH 1 OR MORE FLAT WASHERS (MIN.) AND 1 NYLON INSERT LOCKOUT
A1	Ø 3	$rac{1}{2}$ " DIA.x 5" MACHINE BOLT WITH 2 OR MORE FLAT WASHERS (MIN.) AND 1 NYLON INSERT LOCKOUT
В	60	10D RING SHANK OR SCREW SHANK NAILS (FULL HEAD) WITH 2 OR MORE FLAT WASHERS
С	* 22	8D COMMON NAILS
n	6	#6 x 5'-0''' REBAR
	6	5" x 11_2 " x 1_8 " ANCHOR CLIP FOR 1_2 " DIA. BOLT

* 44 IF SLOPE BRACE IS USED

- B SLAT FASTENING
- C CROSS BRACE AND SLOPE BRACE FASTENING

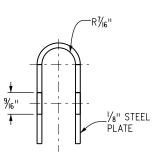


にメ

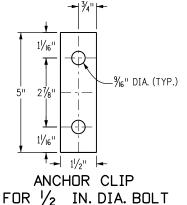


FRONT VIEW

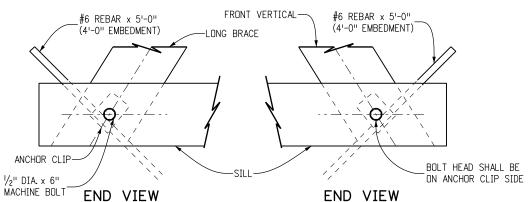
(A1) FRAME CONNECTION DETAIL



END VIEW OF
ANCHOR CLIP
(AFTER BENDING)



NOTE: (FLAT PLATE PRIOR TO BENDING)
HOLES SHALL BE NO GREATER THAN
1/16 IN. LARGER THAN THE BOLT.



D-607-11 SHRP-W/FR-91-106 SNOW FENCE GUIDE TO DET

WOOD SNOW FENCE 10 FOOT HIGH

APPLICATION: USE SHRP-W/FR-91-106 SNOW FENCE GUIDE TO DETERMINE PLACEMENT.
HISTORY: PERMANENT SNOW FENCE DESIGN DEVELOPED FROM SHRP PROJECT,
U.S. DEPT OF AGRICULTURE, UNIVERSITY OF WYOMING, AND WYDOT.
DESIGN GUIDE MAY BE ACCESSED ON PROJECT SPECIAL DETAILS WEB PAGE

PLEASE CALL THE STANDARDS ENGINEER AT 303-757-9021 FOR ANY QUESTIONS. PLEASE DELETE THIS BLOCK BEFORE USING THIS DETAIL ON A PROJECT.

DATE: MARCH 24, 2006 SRJ/LTA

(A2) ANCHOR CLIP CONNECTION DETAILS

	<u>Information</u>	Computer File
□ (Initials: SRJ	Creation Date: 03/24/06
□ (Initials: LTA	Last Modification Date: 03/24/0
╗	signSupport/	Full Path: www.dot.state.co.us/[
\Box (.dgn	Drawing File Name: D060701102
1 (Not to Scale Units: English	CAD Ver.: MicroStation V8 Scale

	Sheet Revisions				
	mm/dd/yy		XXXXX		
R-X	mm/dd/yy	XXXXXXX	XXXXX		
	mm/dd/yy		XXXXX		
	mm/dd/yy		XXXXX		
R-X	mm/dd/yy	XXXXXXX	XXXXX		

Colorado	Department of Transportation
CO	Street Address Office location City, CO Zip code Phone: XXX-XXX-XXXX FAX: XXX-XXX-XXX

(CO)	Phone: XXX-XXX-XXXX	FAX: XXX-XXX-XXX
Region, Unit	t I	ntials/Intials

As Cons	tructed	WOOD SNOW FENCE 10 FOOT HIGH D-607-11		Project No./Code		
No Revisions:	mm/dd/yy			Number		
Revised:	mm/dd/yy	Designer:	XXXXXXXX			Code
Void:	mm/dd/yy	Detailer: Sheet Subset	: XXXXXXXX	 s: XX>	of XXX	Sheet Number: 2 of 2

ON THE M STANDARDS WEBSITE.