#### GENERAL NOTES

- 1. FRAME CONNECTIONS \* (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 1\(^{\frac{1}{2}}\) 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 ▲ (I
  - 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 1/6 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 9

PREVAILING WIND

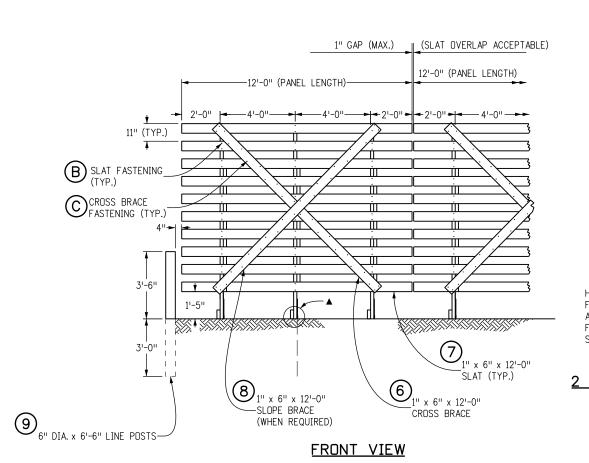
- A. TWO LINE POSTS SHALL BE PLACED AT THE ENDS OF EACH RUN OF SNOW FENCE AS SHOWN.
- ▲ SEE ANCHOR CLIP CONNECTION DETAILS ON SHEET 2.

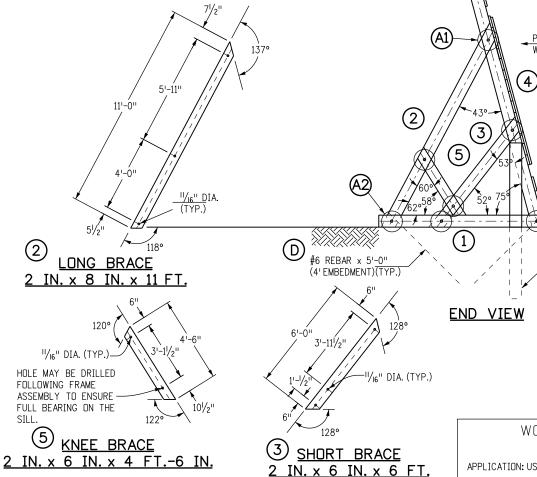
"/<sub>16</sub>" DIA.\_ (TYP.)

FRONT VERTICAL

2 IN. x 6 IN. x 12 FT.

\* SEE FRAME CONNECTION DETAIL ON SHEET 2.





WOOD SNOW FENCE 12 FOOT HIGH D-607-12

9 LINE POST

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 WERSITE.

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

5'-0"

12<sup>i</sup>-0"

33/4"

1	Information	Computer File
SRJ	Initials: S	Creation Date: 03/24/06
LTA	Initials: L	Last Modification Date: 03/24/06
	signSupport/	Full Path: www.dot.state.co.us/De
	!.dgn	Drawing File Name: D06070120102
: English	Not to Scale Units: I	CAD Ver.: MicroStation V8 Scale:

		Sheet Revisions	
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Colorado Department of Transportation

\*\*CDOT\*\* Street Address\*\*



Region, Unit

Street Address
Office location
City, CO Zip code
Phone: XXX-XXX-XXXX FAX: XXX-XXX-XXX
Intials/Intials

√<sub>16</sub>" DIA. (TYP)

2 IN. x 6 IN. x 8 FT.

---4'-2"-

2'-10"->-

As Constructed		WOOD SNOW FENCE 12 FOOT HIGH		Project No./Code			
No Revisions:	mm/dd/yy		D-607-12		D-607-12		
Revised:	mm/dd/yy	Designer:	XXXXXXXX				Code
Void:	mm/dd/yy	Detailer: Sheet Subset	: XXXXXXXX	Subset Sheet	s: XX>	of XXX	Sheet Number: 1 of 2

#### LUMBER FOR ONE 12 FT. WIDE PANEL

ITEM NO.	NO. OF PIECES	LUMBER SIZE	DESCRIPTION			
1	3	2" x 6" x 8'-0"	SILL			
2	3	2" x 8" x 11'-0"	LONG BRACE			
3	3	2" x 6" x 6'-0"	SHORT BRACE			
4	3	2" x 6" x 12'-0"	FRONT VERTICAL			
5	3	2" x 6" x 4'-6"	KNEE BRACE			
9	<b>A</b> 4	6" DIA. (MIN.) x 6'-6"	LINE POST			
FRAME MEMBERS 1, 2, 3, 4, 5 AND 9 SHALL BE PRESSURE TREATED LUMBER IN ACCORDANCE WITH SUBSECTION 710.08 (AASHTO M133).						
6	6 1 1" x 6" x 12'-0"		CROSS BRACE			
7	12	1" x 6" x 12'-0"	SLAT			
8	1	1" x 6" x 12'-0"	SLOPE BRACE			

NOTE: SLOPE BRACE (8) IS REQUIRED WHEN GROUND SLOPE IS 5:1 OR STEEPER

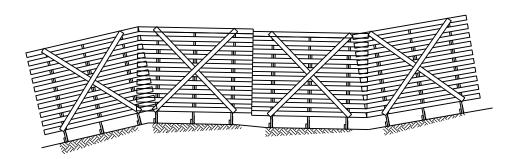
▲ NOTE: TWO LINE POSTS SHALL BE PLACED AT THE ENDS OF EACH RUN OF SNOW FENCE.

 $\overline{V}$  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.

#### HARDWARE FOR ONE 12 FT. WIDE PANEL

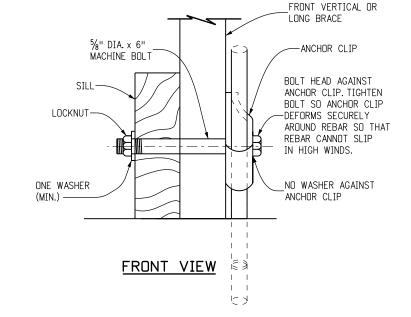
NOTE	QUANTITY	DESCRIPTION
A2	Ø 6	5%" DIA.x 6" MACHINE BOLT WITH 1 OR MORE FLAT WASHERS (MIN.) AND 1 NYLON INSERT LOCKOUT
A1	Ø 15	5%" DIA.x 5" MACHINE BOLT WITH 2 OR MORE FLAT WASHERS (MIN.) AND 1 NYLON INSERT LOCKOUT
В	. 72	10D RING SHANK OR SCREW SHANK NAILS (FULL HEAD) WITH 2 OR MORE FLAT WASHERS
С	* 22	8D COMMON NAILS
D	6	#6 x 5'-O" REBAR
0	6	5" x $1\frac{1}{2}$ " x $\frac{1}{8}$ " ANCHOR CLIP FOR $\frac{5}{8}$ " DIA. BOLT

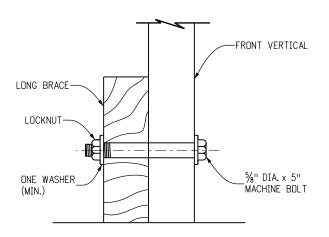
\* 44 IF SLOPE BRACE IS USED

ADDITIONAL WASHERS SHOULD BE ANTICIPATED. SEE BOLTING DETAIL.

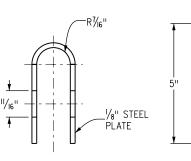
B SLAT FASTENING

C CROSS BRACE AND SLOPE BRACE FASTENING

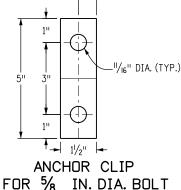




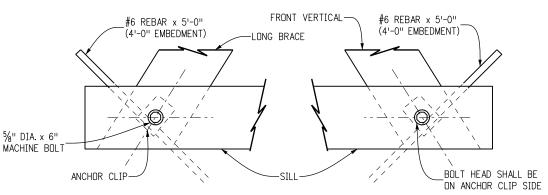
## FRONT VIEW (A1) FRAME CONNECTION DETAIL



END VIEW OF
ANCHOR CLIP
(AFTER BENDING)



NOTE: (FLAT PLATE PRIOR TO BENDING) HOLES SHALL BE NO GREATER THAN  $V_{16}$  IN. LARGER THAN THE BOLT.



END VIEW END VIEW

(A2) ANCHOR CLIP CONNECTION DETAILS

WOOD SNOW FENCE 12 FOOT HIGH D-607-12

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

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DATE: MARCH 24, 2006 SRJ/LTA

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CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

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	mm/dd/yy		XXXXXX
$\mathbb{R}$ -X	mm/dd/yy	XXXXXXX	XXXXXX

### Colorado Department of Transportation Street Address

Office location
City, CD Zip code
Phone: XXX-XXX-XXXX FAX: XXX-XXXX

Region, Unit
Intials/Intials

As Constructed		WOOD SNOW FENCE 12 FOOT HIGH		Project No./Code		
No Revisions:	mm/dd/yy	1	D-607-12		Number	
Revised:	mm/dd/yy	Designer:	XXXXXXXX			Code
V *1		Detailer:	XXXXXXXX	_		
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