

DRAW NORTH ARROW



PREVAILING WIND DIRECTION

IF LIVESTOCK WILL HAVE ACCESS TO THE STRUCTURE, PROVIDE RUB RAILS SUCH AS TWO 2X10 BOARDS ON THE DOWNWIND SIDE TO PROTECT STRUCTURE FROM LIVESTOCK DAMAGE.

TOTAL NUMBER OF POSTS NEEDED _____

L = _____

CORRUGATED STEEL (28 GAGE) OR LUMBER (1" NOMINAL THICK)

MIN. 6" DIA. TOP WOOD POST

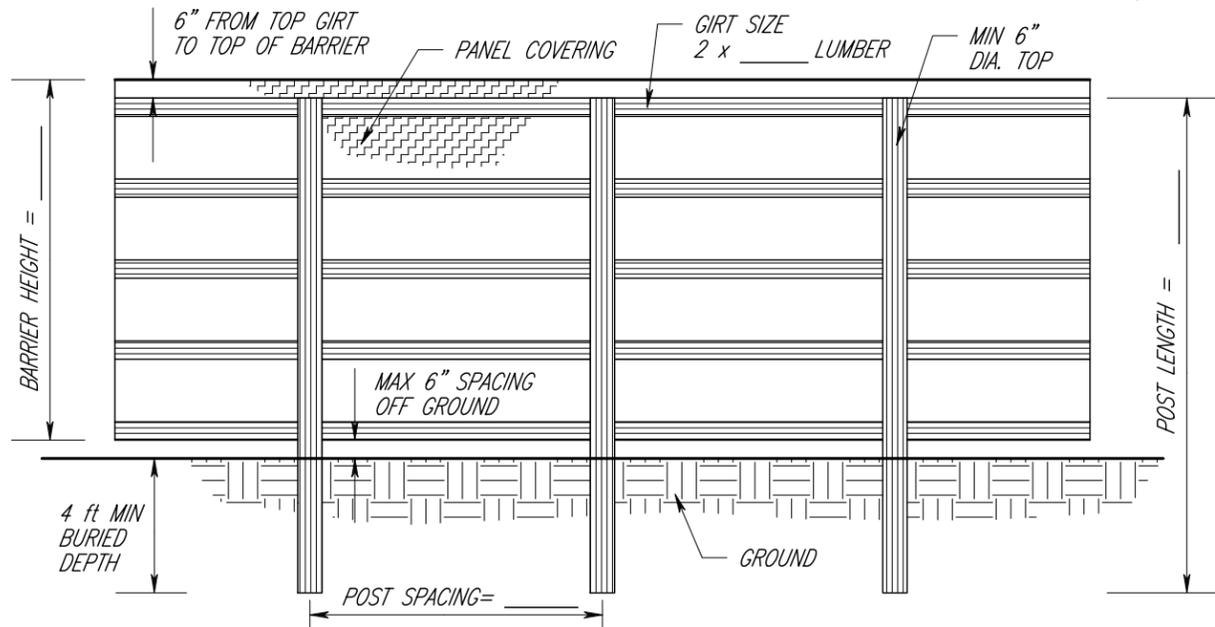
POST SPACING

FABRICATED WINDBREAK PLAN VIEW

NOT TO SCALE

SPACE REMAINING GIRTS EVENLY BETWEEN 2'-3" AND 2'-6"

NUMBER OF GIRTS NEEDED _____
(drawing may not show correct number, See Dimension Table for details)



FABRICATED WINDBREAK DETAIL

NOT TO SCALE

DIMENSIONS FOR FABRICATED WINDBREAK.

BARRIER LENGTH (FT)	BARRIER HEIGHT (FT)	POST LENGTH (FT)	MIN. BURIED DEPTH (FT)	POST SPACING (FT)	NUMBER OF POSTS	GIRT NUMBER & SIZE
	6	10	4	10		3, 2X8
	8	12	4	10		4, 2X8
	10	14	4	8		5, 2X6
	12	16	4	6		6, 2X4

AS-BUILTS:

CONSTRUCTION NOTES AND SPECS

- 1) WINDBREAK SHOULD BE LOCATED A DISTANCE OF 10 X HEIGHT UPWIND OF FEEDLOT FENCE OR AREA TO BE PROTECTED.
- 2) SNOW DEPOSIT ZONE WILL EXTEND 5 X HEIGHT DOWNWIND OF THE FABRICATED WINDBREAK. WIND PROTECTION ZONE WILL EXTEND 15 X HEIGHT DOWNWIND OF THE FABRICATED WINDBREAK.
- 3) PANEL COVERING SHALL BE A MINIMUM NOMINAL 1 INCH LUMBER, 28 GAGE COATED CORRUGATED STEEL, OR SIMILAR DURABILITY MATERIAL AS APPROVED BY NRCS ENGINEER. BOARDS OR PANELS SHOULD BE ATTACHED TO THE WINDWARD SIDE OF THE SHELTER.
- 4) ALL WOOD MATERIAL SHALL BE SOUND, NEW WOOD FREE FROM DECAY AND DISEASE DAMAGE, AND SHALL BE STRAIGHT AND NOT CRACKED. ALL POLES, POSTS, AND GIRTS SHALL BE STRUCTURAL GRADE OR BETTER. ALL POLES, POSTS, AND GIRTS SHALL BE PRESSURE TREATED BY ONE OF THE FOLLOWING PRESERVATIVES: CREOSOTE, PENTACHLOROPHENOL, OR WATERBORNE PRESERVATIVES (ARSENICALS) TREATED TO 0.4 POUNDS PER CUBIC FOOT RETENTION. WOOD FOR USE IN PERMANENT CONTACT WITH EARTH SHALL BE TREATED TO A RETENTION LEVEL OF AT LEAST 0.6 POUNDS PER CUBIC FOOT.
- 5) STEEL SHALL BE MALLEABLE, WELDABLE, CARBON STEEL. STEEL SHALL BE GALVANIZED ACCORDING TO ASTM A123. BOLTS, RODS, NUTS, WASHERS AND OTHER HARDWARE SHALL BE AN APPROPRIATE GRADE OF STEEL, AND BE GALVANIZED.
- 6) STRUCTURES SHALL BE INSTALLED ACCURATELY TO THE DIMENSIONS SHOWN ON THE DRAWINGS. NAILS AND SPIKES SHALL BE DRIVEN IN WOOD WITH JUST SUFFICIENT FORCE TO SET THE HEADS FLUSH WITH THE SURFACE OF THE WOOD. BOLT HOLES SHALL BE DRILLED FOR SNUG FIT. HOLES FOR LAG SCREWS SHALL BE BORED WITH A BIT NOT LARGER THAN THE BODY OF THE SCREW AT THE BASE OF THE THREAD. WASHERS SHALL BE USED IN CONTACT WITH ALL BOLT HEADS AND NUTS THAT WOULD OTHERWISE BE IN CONTACT WITH WOOD. STEEL WELDS SHALL BE HEAVY DUTY WITH OBVIOUS STRENGTH EQUAL TO THE STRENGTH OF THE STRUCTURAL STEEL.

OPERATION & MAINTENANCE: INSPECT FABRICATED WINDBREAK AND REPAIR ANY DAMAGE TO STRUCTURE ANNUALLY.

"STATEMENT OF COMPLIANCE"
Construction (was) (was not) completed in accordance with approved construction plans and specifications.

JAA Date

ND Conservation Job Sheet 26 SOLID FABRICATED WINDBREAK STRAIGHT LINE FOR FEEDLOT USE

REVISIONS		
DATE	APPROVED	TITLE
10/11/2010	Dennis K. Reep	State Conservation Engineer

Date _____

Designed _____

Drawn _____

Checked _____

Approved _____

PRODUCER _____

SECTION _____ T. _____ R. _____

COUNTY _____

CONSERVATION DISTRICT _____

USDA - NRCS
State Office Engineering Staff
220 East Rosser Ave
Bismarck, North Dakota 58501



File Name: Fab_Windbreak_ND_10_10.pro

Drawing No. _____

10/7/2010 1:53PM

Sheet 1 of 1