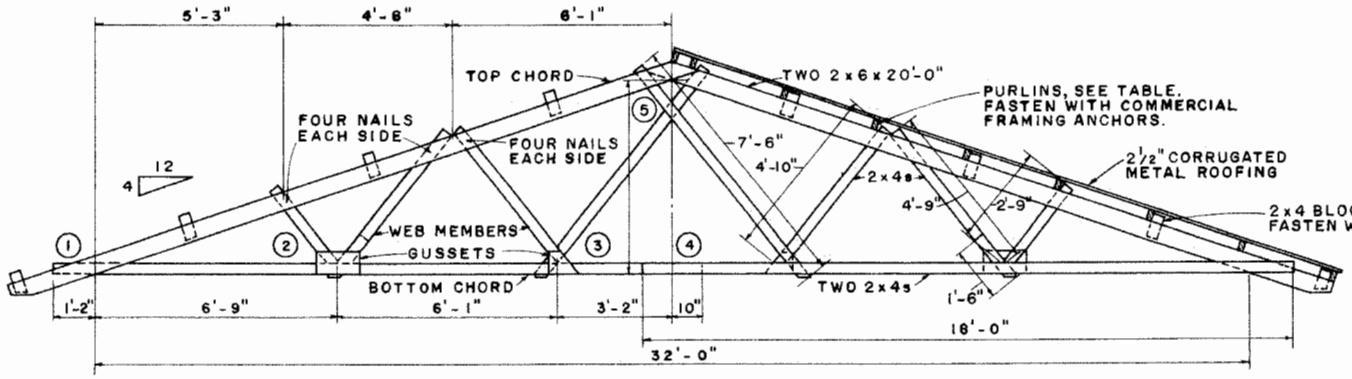
WHERE SNOW OR WIND LOAD WILL NOT EXCEED----	TRUSSES MAY BE SPACED UP TO-------	PURLINS MAY BE---	PURLINS SPACED UP TO--
18 LBS., PER SQ.FT.	12'-0"o.c.	2 x 4	1'-3"
22 " " " "	10'-0"o.c.	2 x 4	1'-6"
27 " " " "	8'-0"o.c.	2 x 4	2'-0"
36 " " " "	6'-0"o.c.	2 x 4	2'-6"
43 " " " "	5'-0"o.c.	2 x 4	1'-6"*
54 " " " "	4'-0"o.c.	2 x 4	2'-4"*

* LAID FLAT



ELEVATION
SCALE: 3/8" = 1'-0"

THIS TRUSS IS DESIGNED TO SUPPORT LOADS UP TO 200 LBS. PER FOOT OF SPAN INCLUDING THE WEIGHT OF THE ROOF.

ALL LUMBER SHALL BE STRESS GRADED TO PROVIDE 1500 PSI FIBER STRESS IN BENDING AND 1360 PSI IN COMPRESSION.

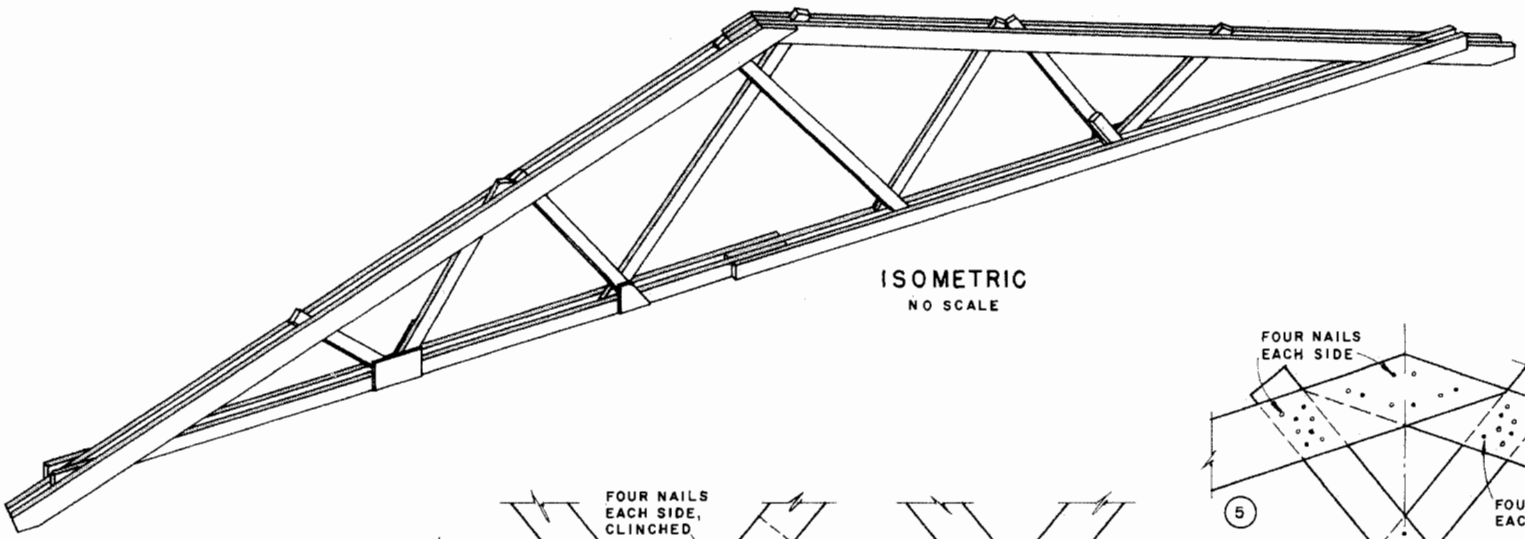
MATERIALS FOR ONE TRUSS:

TOP CHORD	4 PCS.	2 x 6 x 20'-0"
BOTTOM CHORD	4 PCS.	2 x 4 x 18'-0"
WEB MEMBERS AND BLOCKING	1 PC.	2 x 4 x 16'-0"
	2 PCS.	2 x 4 x 14'-0"
	1 PC.	2 x 4 x 8'-0"

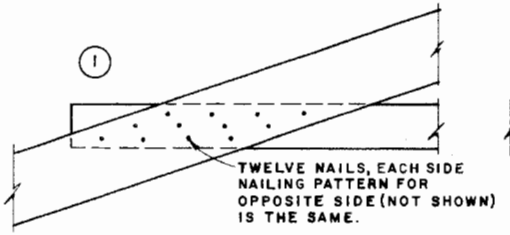
ONE 48"x96" PLYWOOD PANEL WILL PROVIDE GUSSETS FOR 13 TRUSSES.

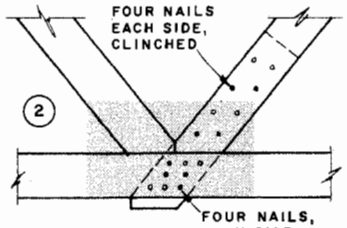
NAILS	7 LBS.	20d COMMON
	1 LB.	10d COMMON

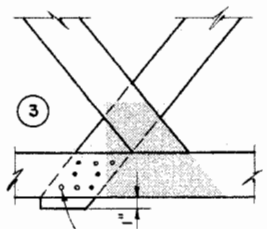
TRUSSES SHOULD BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE.

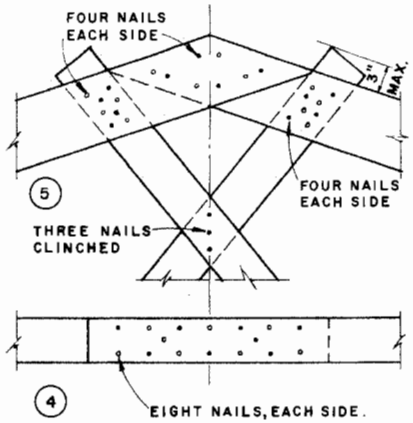


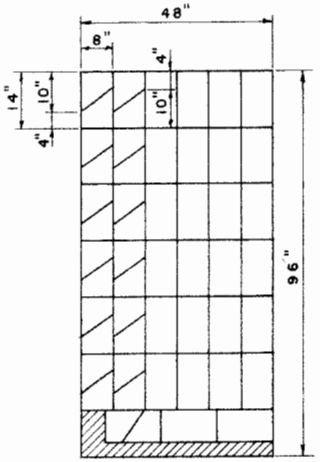
ISOMETRIC
NO SCALE



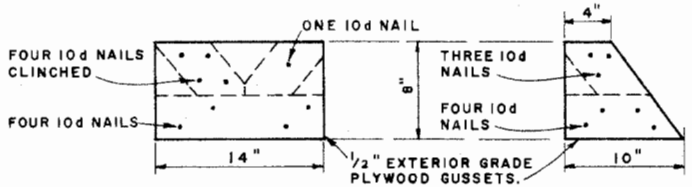








CUTTING DIAGRAM FOR GUSSETS



JOINT DETAILS
SCALE: 1½" = 1'-0"

ALL NAILS TO BE 20d COMMON, EXCEPT AS NOTED.
• = NAILS DRIVEN FROM THE NEAR SIDE OF THE TRUSS.
o = NAILS DRIVEN FROM THE FAR SIDE FOR LEFT END OF TRUSS AS DETAILED.
NOTE THAT NAILING PATTERNS ARE REVERSED FOR RIGHT END OF TRUSS.
ALL PROJECTING NAILS TO BE CLINCHED.

LSU AgCenter Research & Extension

32 FT. UTILITY TRUSS

4/12 SLOPE • LAP-NAILED CONSTRUCTION

USDA '64	EX. 5973	SHEET 1 OF 1

Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.