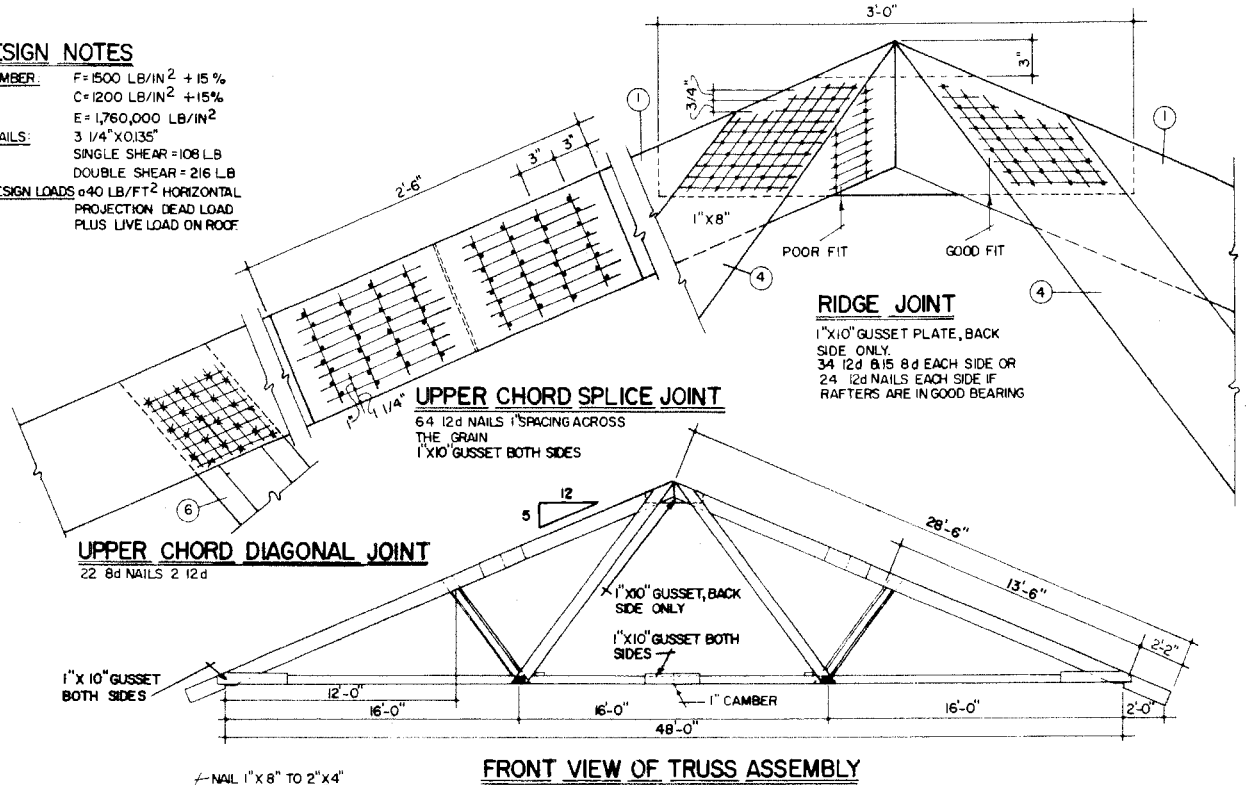


DESIGN NOTES

1. LUMBER: F = 1500 LB/IN² + 15%
C = 1200 LB/IN² + 15%
E = 1,760,000 LB/IN²
3 1/4" x 0.135"
2. NAILS: SINGLE SHEAR = 108 LB
DOUBLE SHEAR = 216 LB
3. DESIGN LOADS: 40 LB/FT² HORIZONTAL PROJECTION DEAD LOAD PLUS LIVE LOAD ON ROOF.



UPPER CHORD SPLICE JOINT
64 12d NAILS 1" SPACING ACROSS THE GRAIN
1" x 10" GUSSET BOTH SIDES

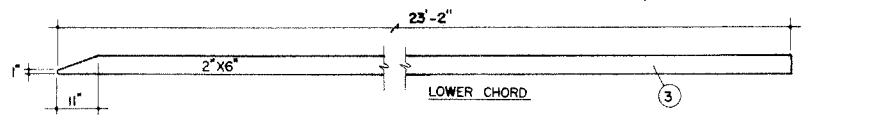
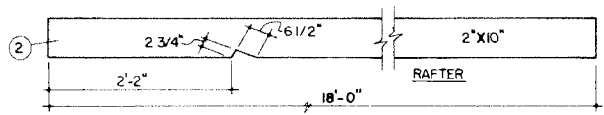
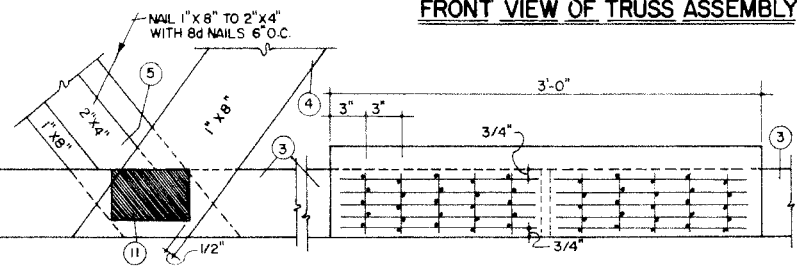
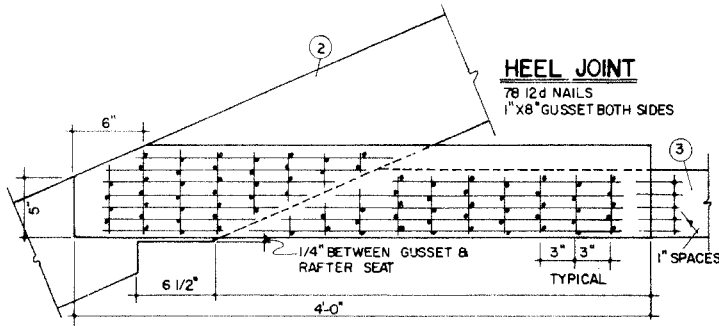
UPPER CHORD DIAGONAL JOINT
22 8d NAILS 2 12d

RIDGE JOINT
1" x 10" GUSSET PLATE, BACK SIDE ONLY
34 12d 8/15 8d EACH SIDE OR 24 12d NAILS EACH SIDE IF RAFTERS ARE IN GOOD BEARING

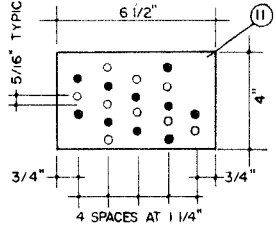
1" x 10" GUSSET BOTH SIDES

1" x 10" GUSSET, BACK SIDE ONLY
1" x 10" GUSSET BOTH SIDES

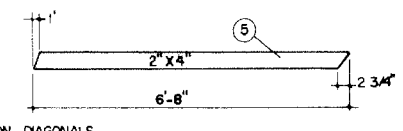
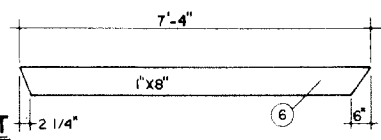
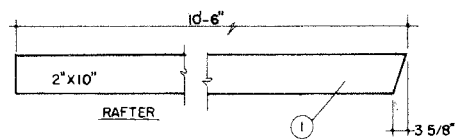
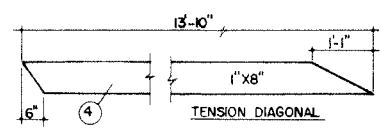
1" CAMBER



METAL GUSSET PLATE (22 GA.)
SCALE 3" = 1'-0" FOR LOWER CHORD DIAGONAL JOINT.



SECTION THRU LOWER CHORD-DIAGONAL JOINT
SCALE 3" = 1'-0"



NOTES & SPECIFICATIONS

1. LUMBER: CONSTRUCTION GRADE DOUGLAS FIR OR EQUIVALENT
2. TRUSSES: SPACED 4'-0" ON CENTERS.
3. CAMBER: 1" AT CENTER SPLICE.
4. NAILS: USE HARDENED, HELICAL, THREAD-ED NAILS OR EQUIVALENT. DRIVE ALL NAILS FROM THE FRONT EXCEPT THOSE SHOWN AS X.
5. MAKE AND USE A NAILING TEMPLATE FOR LOCATING ALL NAILS.
6. MINIMUM END GRAIN NAIL SPACING, ALL MEMBERS 2 1/2"-3"
7. MINIMUM EDGE GRAIN NAIL SPACING, ALL MEMBERS 3/4"-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.