24-FT SPAN, 3 IN 12 PITCH, NAILED TRUSSED RAFTER WITH 3½ FT OVERHANG

BACK SIDE OF ASSEMBLY

LOAD AND STRESS DIAGRAMS

DEAD LOAD AND LIVE LOAD ON ROOF: 2240 LBS/SQ. FT.

TRUSSED RAFTERS SPACED 4'-0" ON CENTER

LUMBER: N 1 SOUTHERN PINE OR DOUGLAS FIR

C = 1000 F.S.I. COMPRESSION PARALLEL TO GRAIN

F = 1450 F.S.I. MODULUS OF RUPTURE

E = 600,000 F.S.I. MODULUS OF ELASTICITY

CAMBER: 3/4" AT CENTER SPlice

HEEL JOINT

REQUIRED 14, 12 J NAILS
USE 14 TO 18, 12 J N

FRONT VIEW OF ASSEMBLY

BILL OF MATERIALS

RAFTERS 2 PCS. 2" X 6" X 16'

CHORDS 2 PCS. 2" X 4" X 12'

DIAGONALS 2 PCS. 1" X 8" X 10'

1 PCS. 2" X 6" X 8'

SPLICES 4 PCS. 1" X 4" X 6'

3 PCS. 1" X 6" X 3'

NAILS 100 PCS. 12 J 3/4" X .125" 3/4" X 1 1/2" XI 1 1/2" X .125" 100 PCS. 8 J 2 1/2" X 1 1/4" X .150" 2 1/2" X .125"

CENTER-SPlice JOINT

NOTES:

USE HELICALLY THREADED NAILS FOR PERMANENTLY TIGHT, RIGID JOINTS THROUGHOUT STRUCTURE

USE HARDENED NAILS IN DRY SOUTHERN PINE

USE TEMPLETS FOR ALL NAILS TO ASSURE MAXIMUM EFFICIENCY AND EFFECTIVENESS

DRIVE ALL NAILS FROM FRONT EXCEPT THOSE SHOWN AS (O)

HORSE BARN- 8STALL
VA. '67 EX. 6010 SHEET 3 OF 3