BILL OF MATERIALS

RAFTERS
2 PCS. 2x6x20'-0"
(24'-0")

LOWER CHORD
2 PCS. 2x6x7'-4"
DIAGONALS
2 PCS. 2x4x4'-4"

SPLICES
2 PCS. 1x6x5'-6"
2 PCS. 1x8x10'-2"
GUSSETS
2 PCS. 1x6x2'-4"
4 PCS. 1x6x2'-7-1/2"
1 PCS. 1x8x3'-0"

NAILS (SCREWITE)
230-270 PCS. 12d
BRIGHT
3-1/2" x 0.148"
(44 LBS.)

OR

NAILS (SCREWITE)
230-270 PCS. 12d
HARDENED
3-1/2" x 0.155"
(37 LBS.)

36'-FT. SPAN, 5 IN 12 PITCH, NAILED TRUSSED
RAFTER (NO CEILING) SPACED
4 FT. ON CENTER

FRONT VIEW OF ASSEMBLY
NO SCALE

CHORD-DIAGONAL JOINT
WITH 14, 2 DIA. NAILS
SCALE 1/8"=1'-0"

2x4 DIAGONALS TO BE IN
GOOD BEARING TO PROVIDE
OPTIMUM RIGIDITY

NAIL 1/8" TO 2x4

1x6 DIAGONAL

1x6 DIAGONAL

2x4 LOWER CHORD

2x4 LOWER CHORD

3'-0" (FOR MINIMUM NUMBER
OF NAILS)

3'-0" (FOR MAXIMUM NUMBER
OF NAILS)

33, 12d NAILS,

31, 12d NAILS

IN COLAR

1/4" COLLAR

IF RAFTERS DO NOT FIT
TIGHTLY

IF RAFTERS ARE IN GOOD
BEARING

DESIGN AS INFLUENCED BY GOOD OR POOR WORKMANSHIP
WITH 26 OR 66, 12d NAILS

RIDGE JOINT
SCALE 1/8"=1'-0"

CENTER-SPLICE JOINT
WITH 40, 12d NAILS
SCALE 1/8"=1'-0"

REQUIRES FOR FIG. 16, 12d NAILS
USE 40, 12d NAILS

IN SPICE PLATES ON BOTH SIDES

1/4" SPICE PLATES ON BOTH SIDES

COOPERATIVE EXTENSION WORK IN
AGRICULTURE AND HOME ECONOMICS
STATE OF TENNESSEE
UNIVERSITY OF TENNESSEE
AND
UNIVERSITY OF ARIZONA
AGRICULTURE COOPERATING
FREESTALL HOUSING
HIGH DENSITY