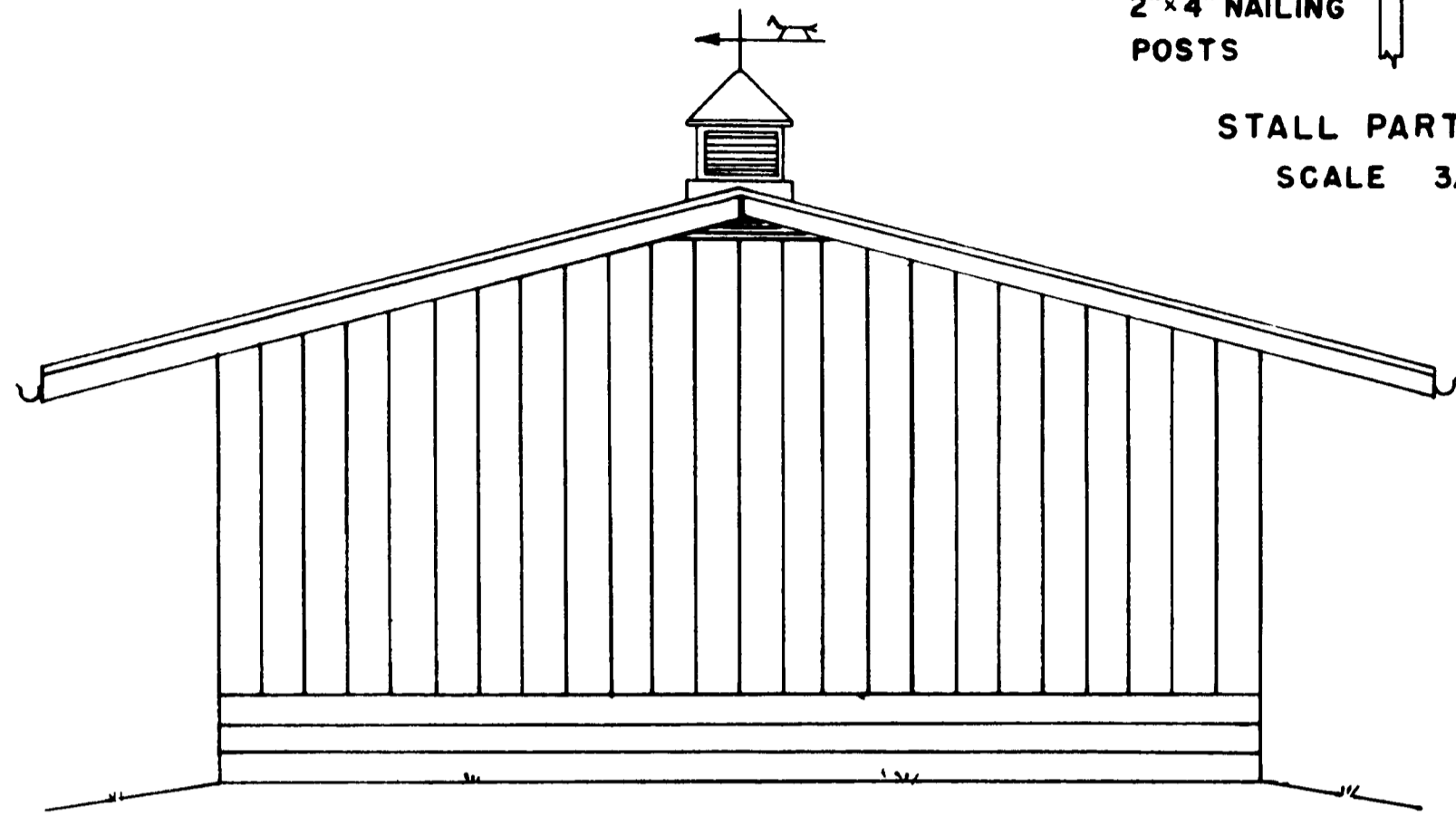


## **Important: Warranty Disclaimer for Plans**

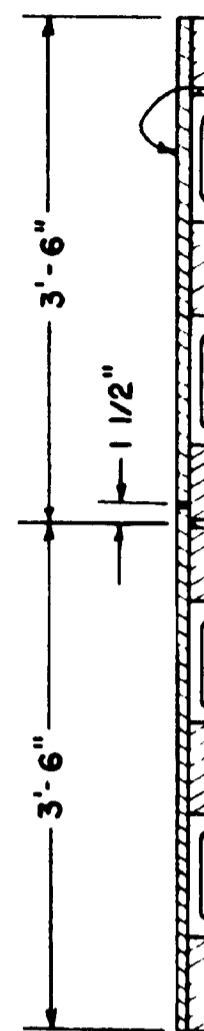
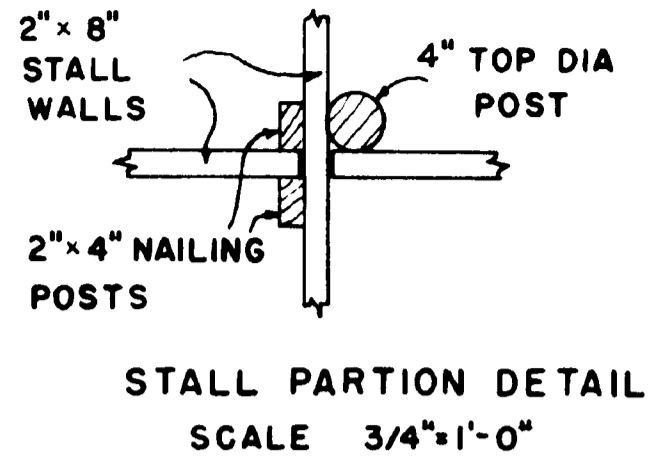
For the convenience of our clientele, this website makes available conceptual plans that can be helpful in planning buildings, facilities, or other structures. They were developed over many years by engineers at Land Grant universities through the former USDA Cooperative Farm Buildings Plan Exchange. *Regardless of the original intent, these are older plans that provide conceptual information only, and are not to be considered or used as construction plans.*

These plans do not claim to represent the most current technology or the most recent construction techniques, standards, or codes. For example, over the years there have been changes in the National Design Specifications for Wood Construction, changes in the strengths and types of building materials, and changes in fasteners, among other things. Those changes, along with variations in climate, building codes, and other factors, make it imperative that professional services be utilized for your specific project. Suggested services include, but are not limited to, structural design, assurance of compliance with codes and regulations, site selection, construction supervision, and provision for utilities, waste management, and access. *These plans do not replace the need for competent design assistance in developing safe, legal, and well-functioning agricultural buildings and systems.*

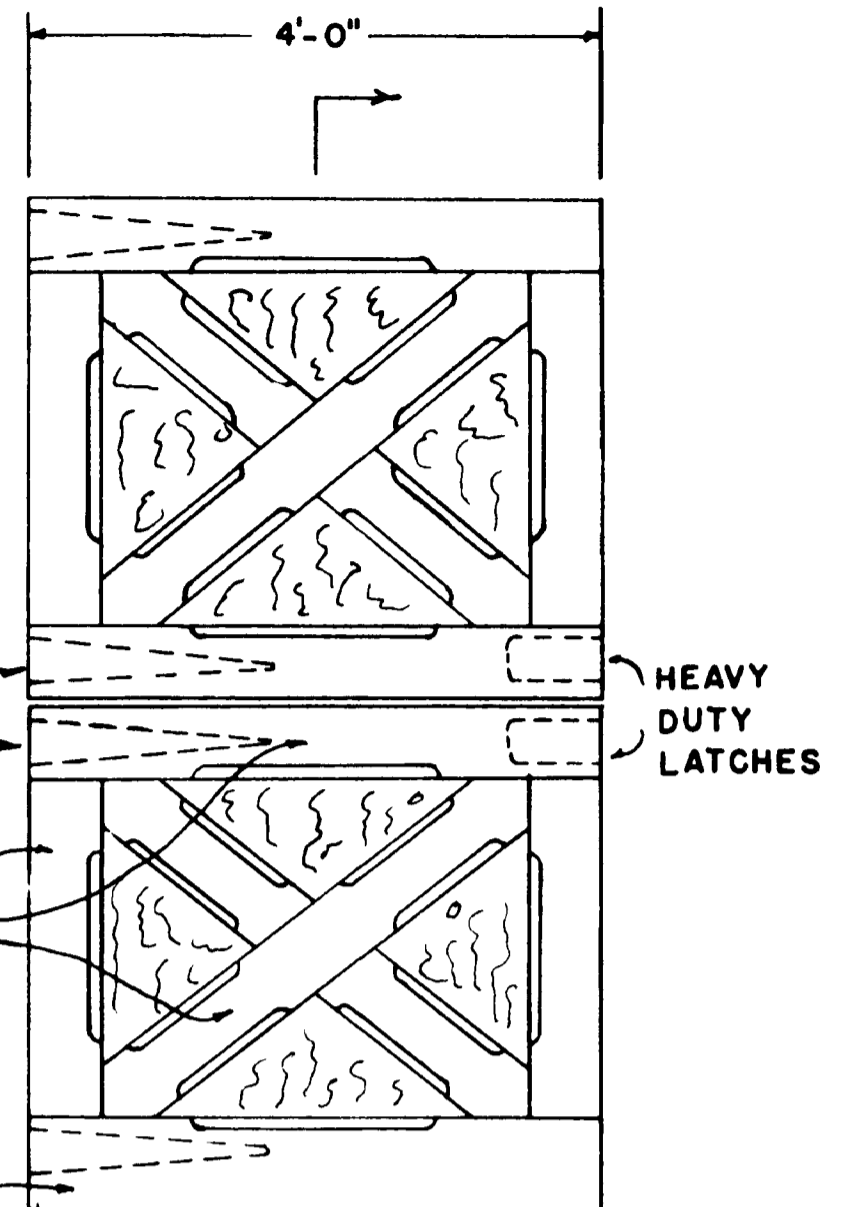
**Neither the University of Kentucky, the Midwest Plan Service, the United States Department of Agriculture, nor any of the cooperating Land Grant universities, warranty these plans. They are for conceptual use only and are not for use as construction plans.**



END ELEVATION  
SCALE 1/4"=1'-0"

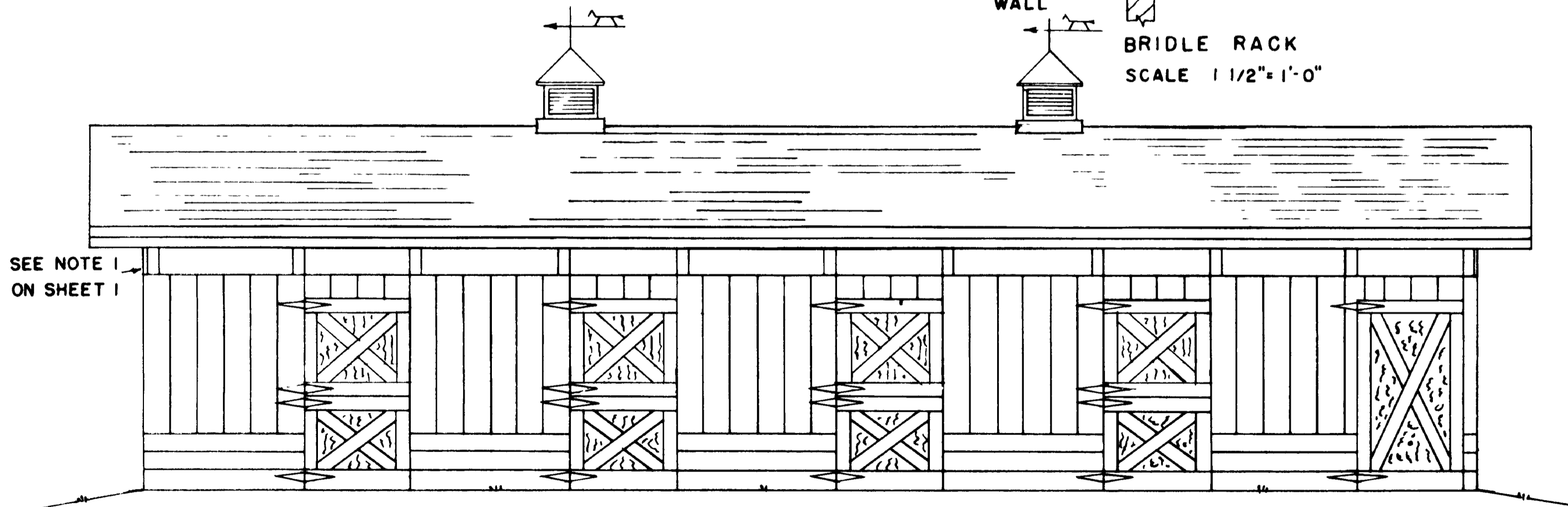
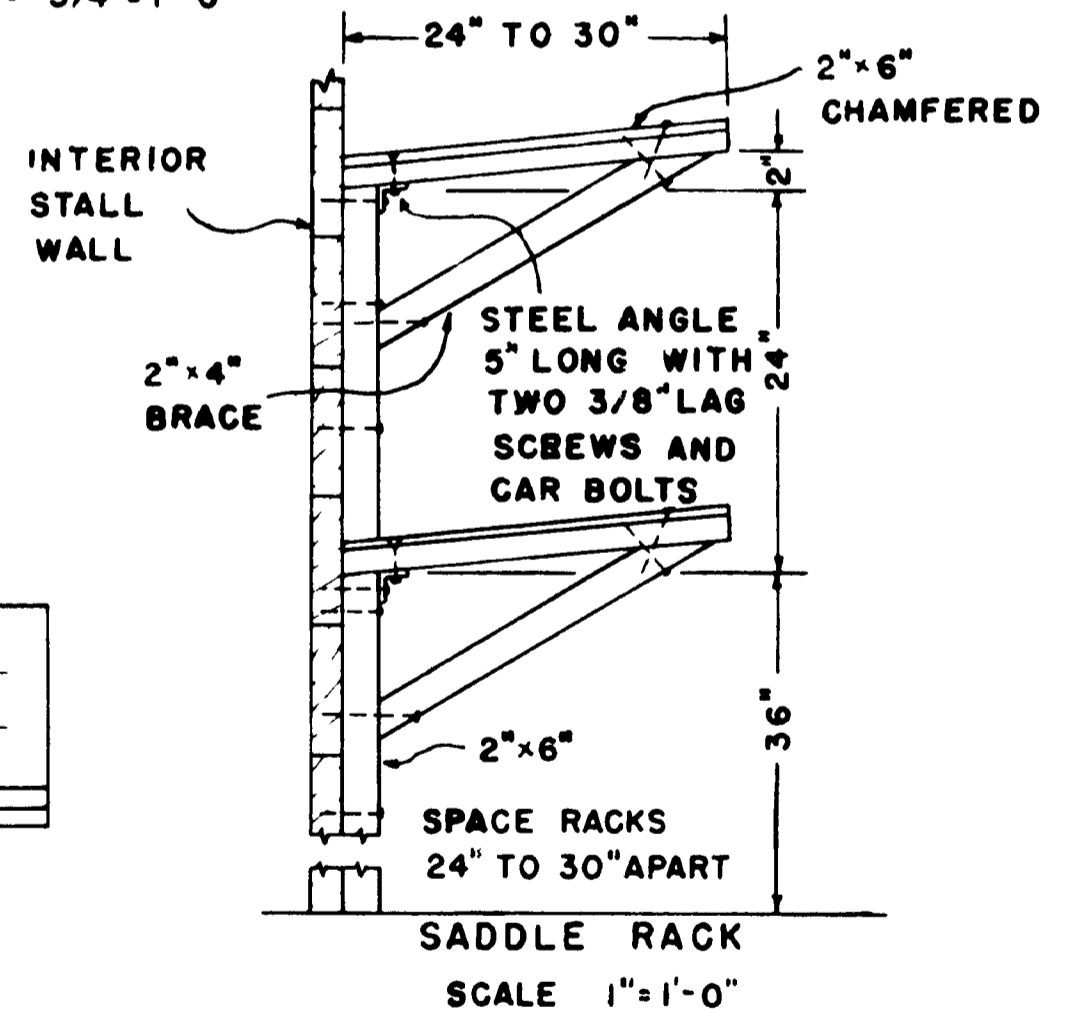
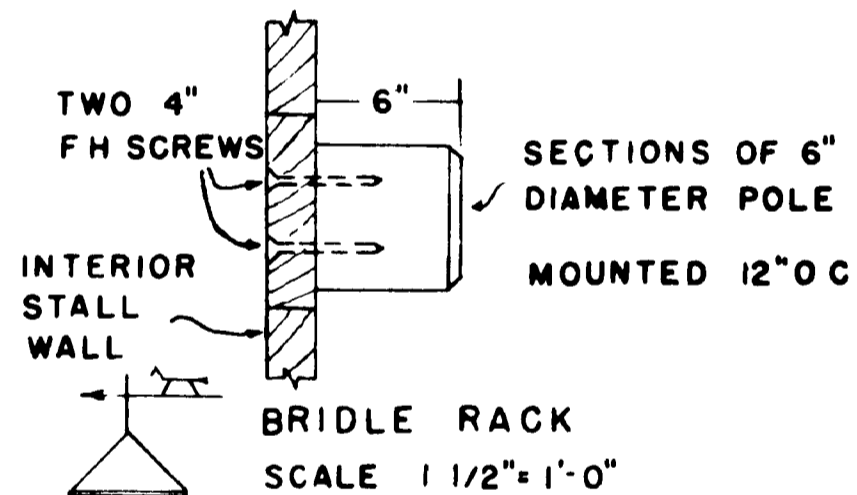


SECTION B-B



STALL DOOR DETAILS  
SCALE = 3/4"=1'-0"

ELEVATION



SIDE ELEVATION  
SCALE 1/4"=1'-0"

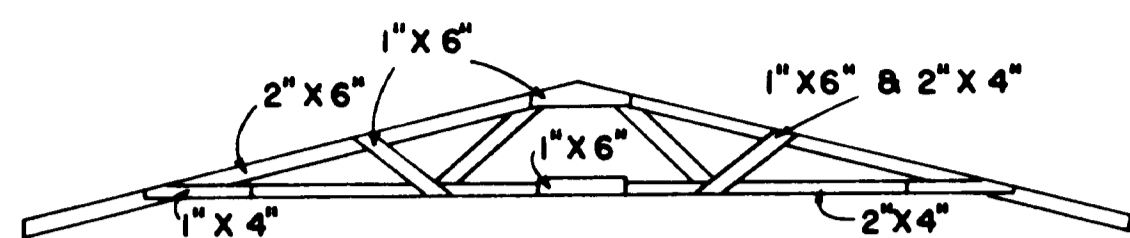
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COLLEGE OF AGRICULTURE  
UNIVERSITY OF KENTUCKY  
AND  
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

HORSE BARN-8 STALL

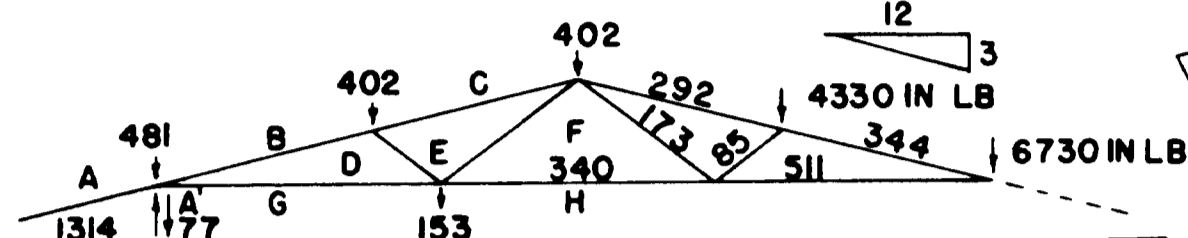
VA. '67 EX 6010 SHEET 2 OF 3

REVIEWED 1977

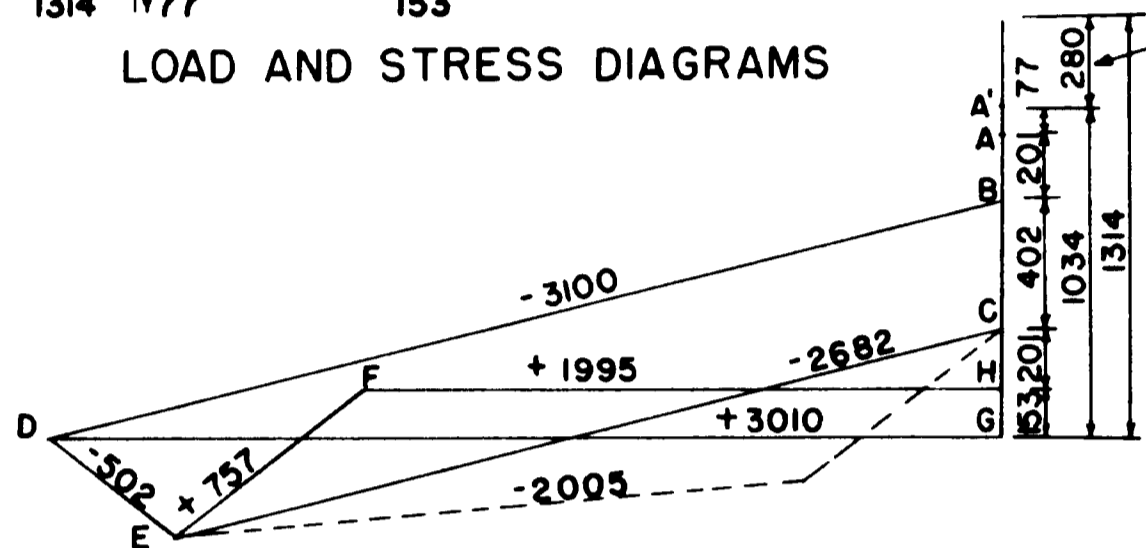
# 24-FT SPAN, 3 IN 12 PITCH, NAILED TRUSSED RAFTER WITH 3 1/2 FT. OVERHANG



BACK SIDE OF ASSEMBLY

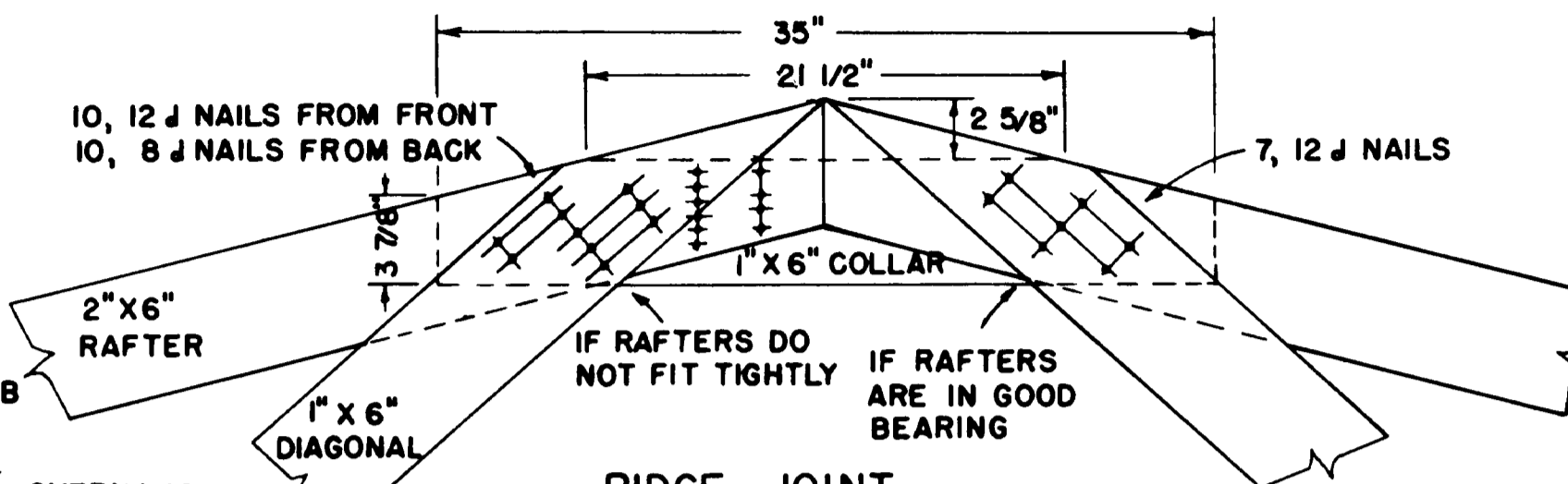


LOAD AND STRESS DIAGRAMS



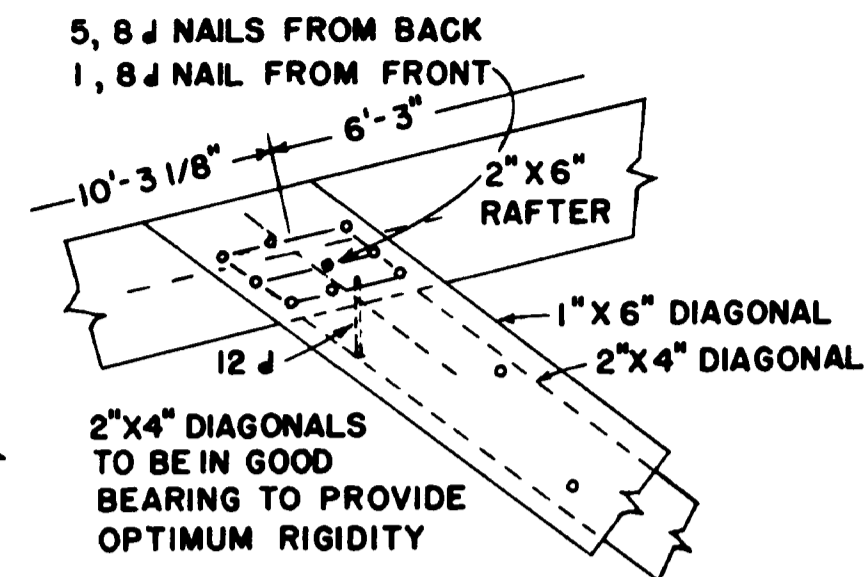
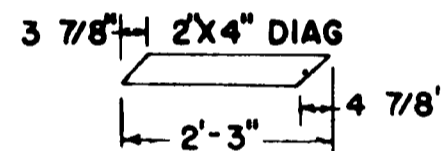
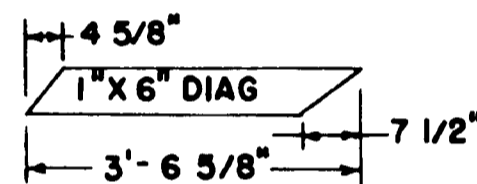
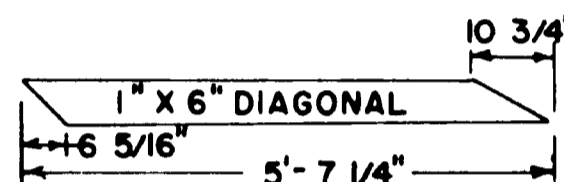
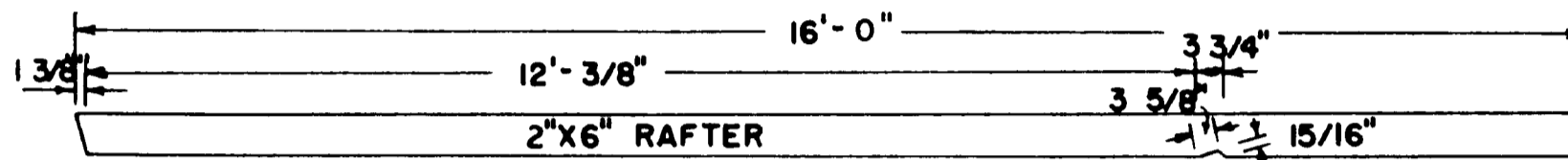
DEAD LOAD AND LIVE LOAD ON ROOF 22 1/2 LB / SQ FT

TRUSSED RAFTERS SPACED 4'-0" ON CENTER  
 LUMBER N#1 SOUTHERN PINE OR DOUGLAS FIR  
 C = 1200 PSI COMPRESSION PARALLEL TO GRAIN  
 F = 1450 PSI MODULUS OF RUPTURE  
 E = 1,600,000 PSI MODULUS OF ELASTICITY  
 CAMBER 3/4" AT CENTER SPLICE



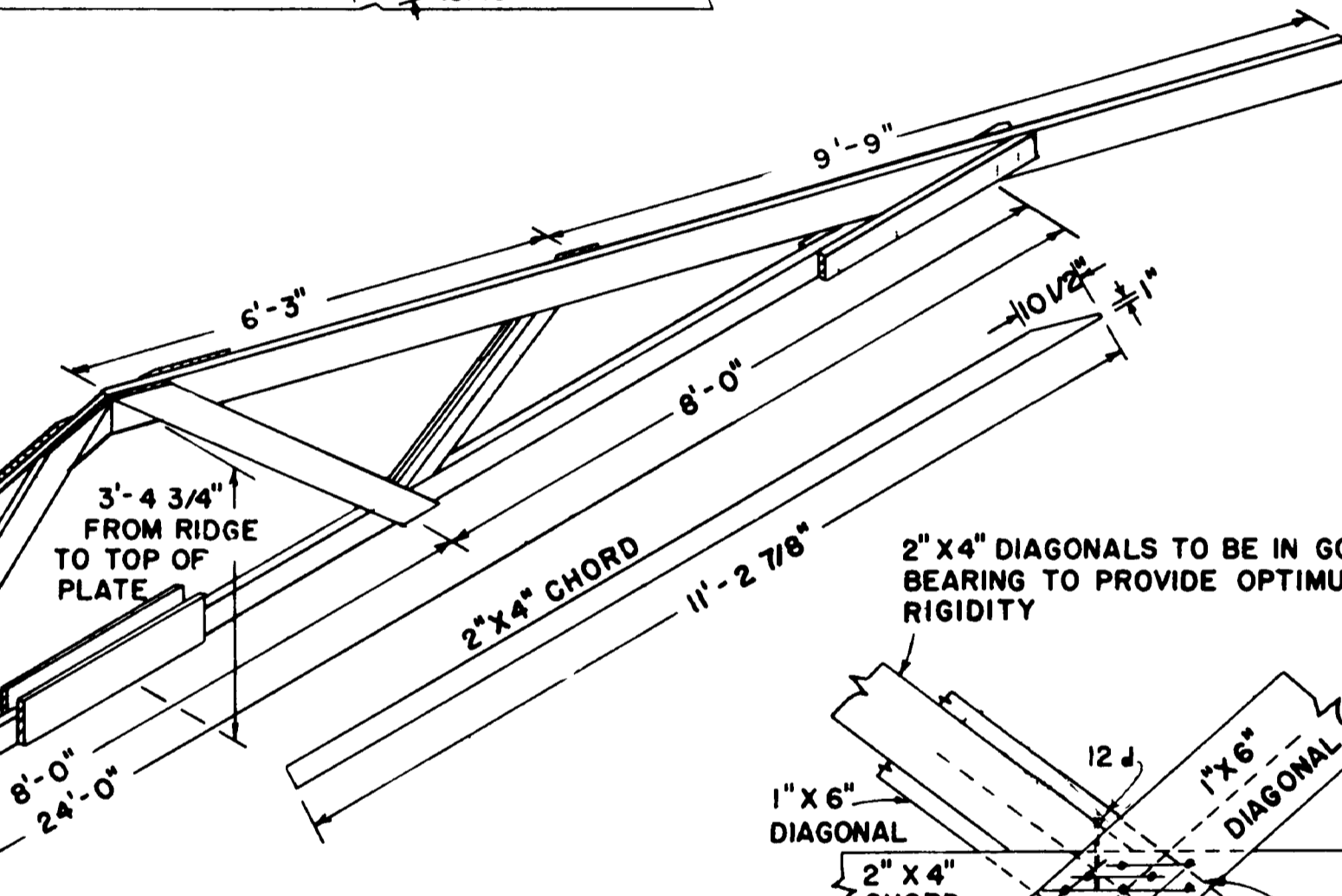
RIDGE JOINT

(DESIGNS AS INFLUENCED BY GOOD OR POOR WORKMANSHIP)

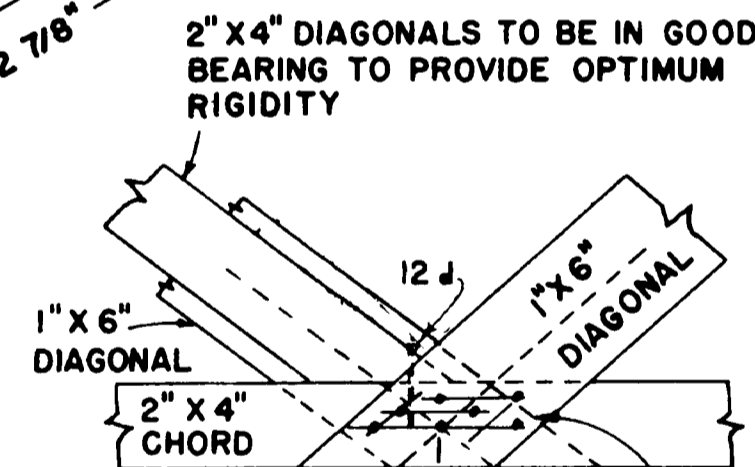


RAFTER DIAGONAL JOINT

(FROM BACK OF ASSEMBLY)

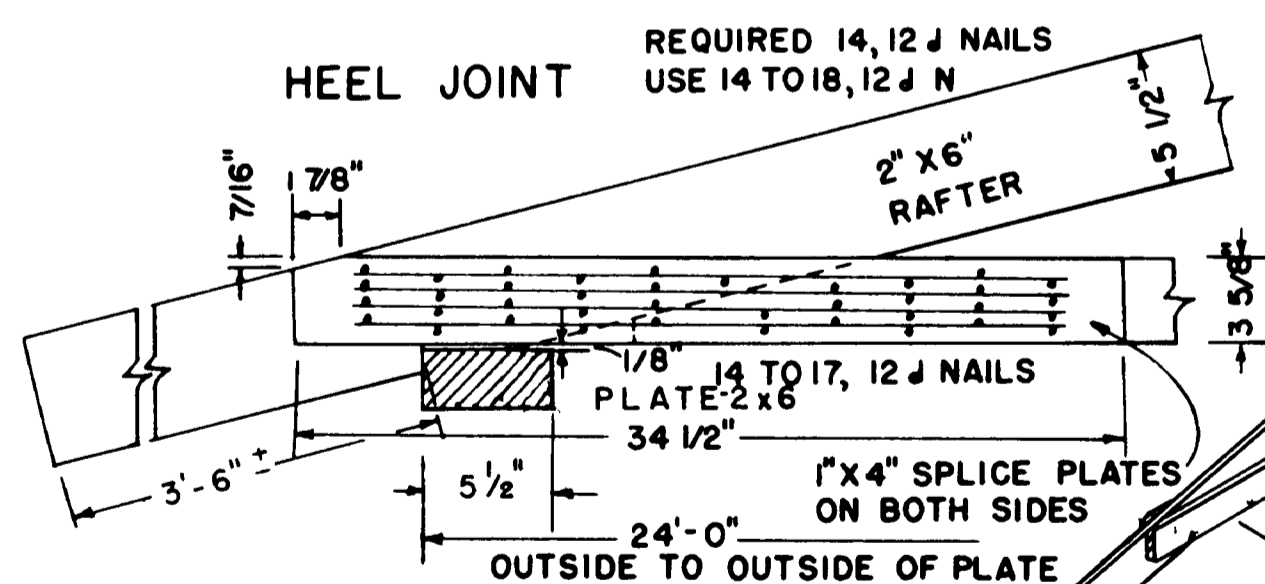


FRONT VIEW OF ASSEMBLY



CHORD - DIAGONAL JOINT

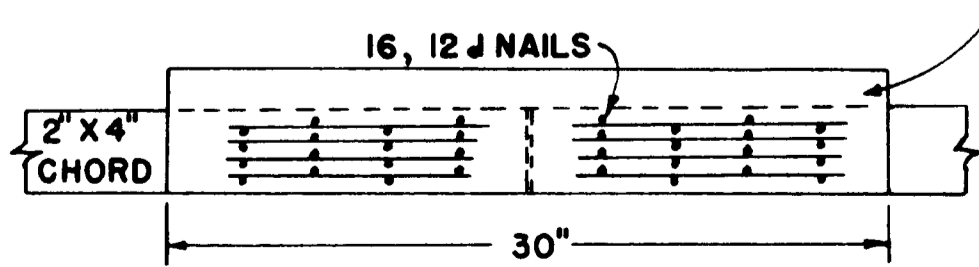
7, 12 d NAILS



HEEL JOINT

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

1" X 6" SPLICE PLATES ON BOTH SIDES



CENTER-SPLICE JOINT

## BILL OF MATERIALS

RAFTERS	2 PCS	2" X 6" X 18'
CHORDS	2 PCS	2" X 4" X 12'
DIAGONALS	2 PCS	1" X 6" X 10'
	1 PCS	2" X 4" X 6'
SPLICES	4 PCS	1" X 4" X 3'
	3 PCS	1" X 6" X 3'
NAILS		BRIGHT HARDENED
	140 PCS.	- 12 d 3 1/4" X .148" 3 1/4" X .135"
	38 PCS.	- 8 d 2 1/2" X .135" 2 1/2" X .120"

## NOTES

- USE HELICALLY THREADED NAILS FOR PERMANENTLY TIGHT, RIGID JOINTS THROUGHOUT STRUCTURE
- USE HARDENED NAILS IN DRY SOUTHERN PINE
- USE TEMPLATES FOR ALL NAILS TO ASSURE MAXIMUM EFFICIENCY AND EFFECTIVENESS
- DRIVE ALL NAILS FROM FRONT EXCEPT THOSE SHOWN AS (O)

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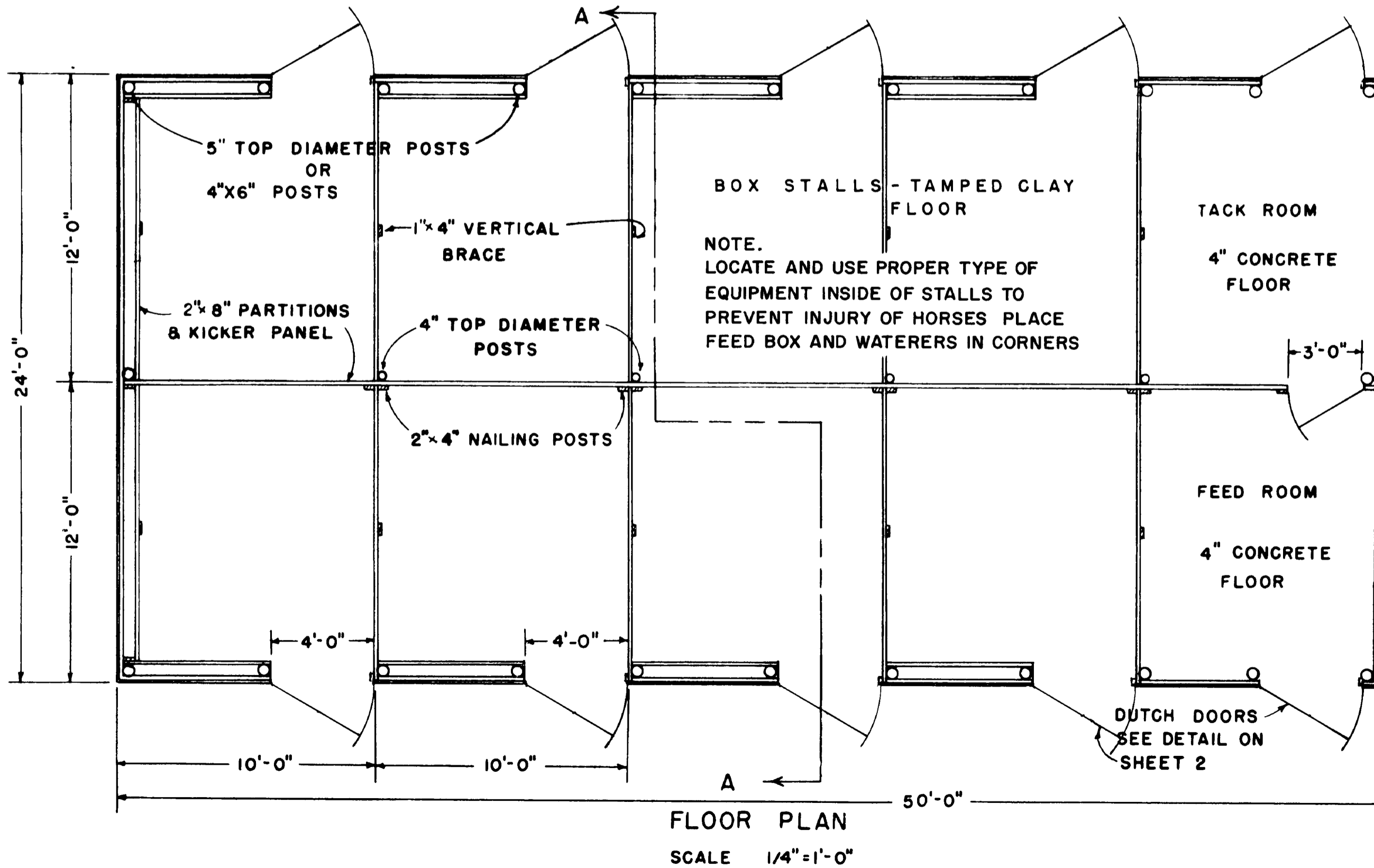
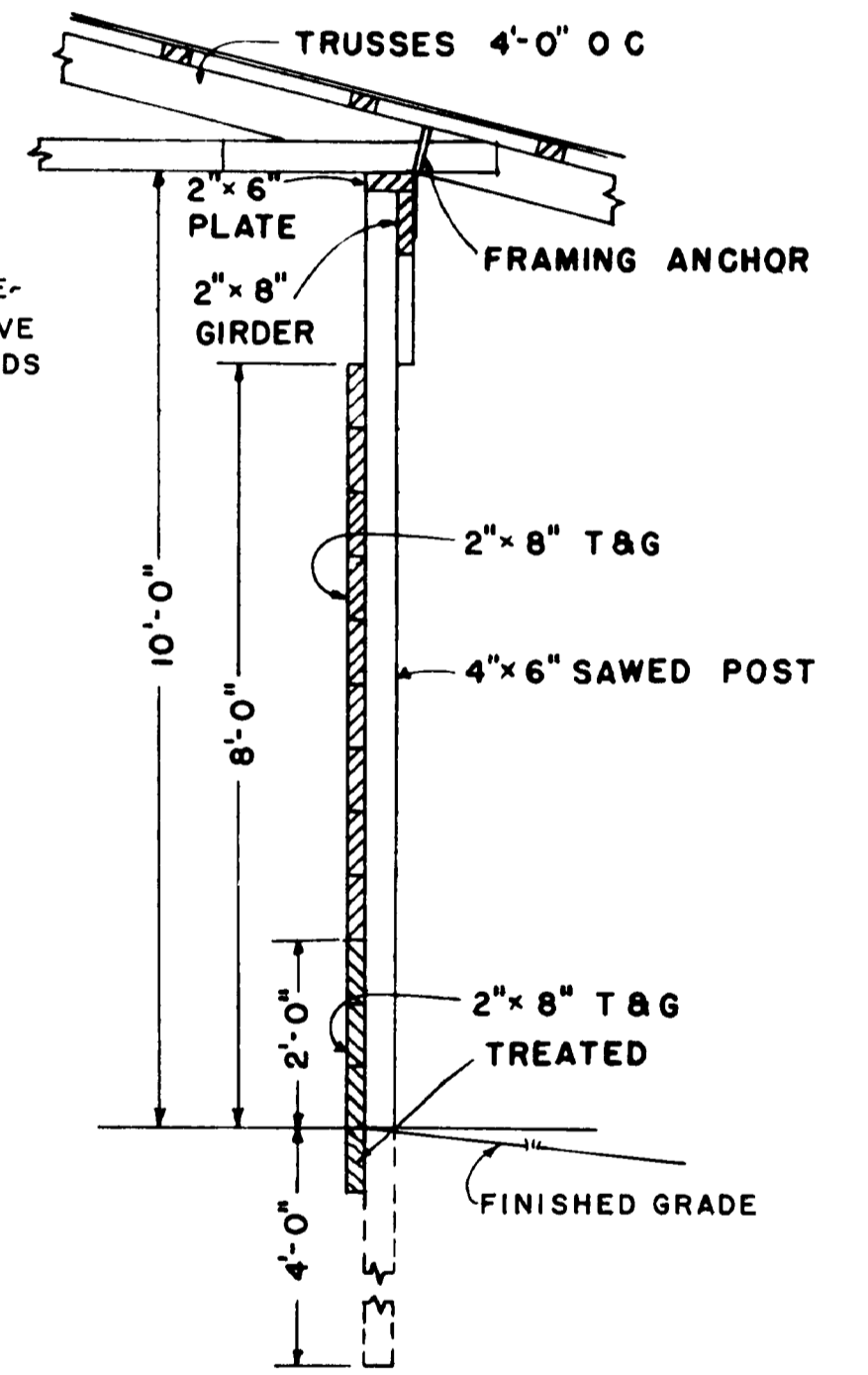
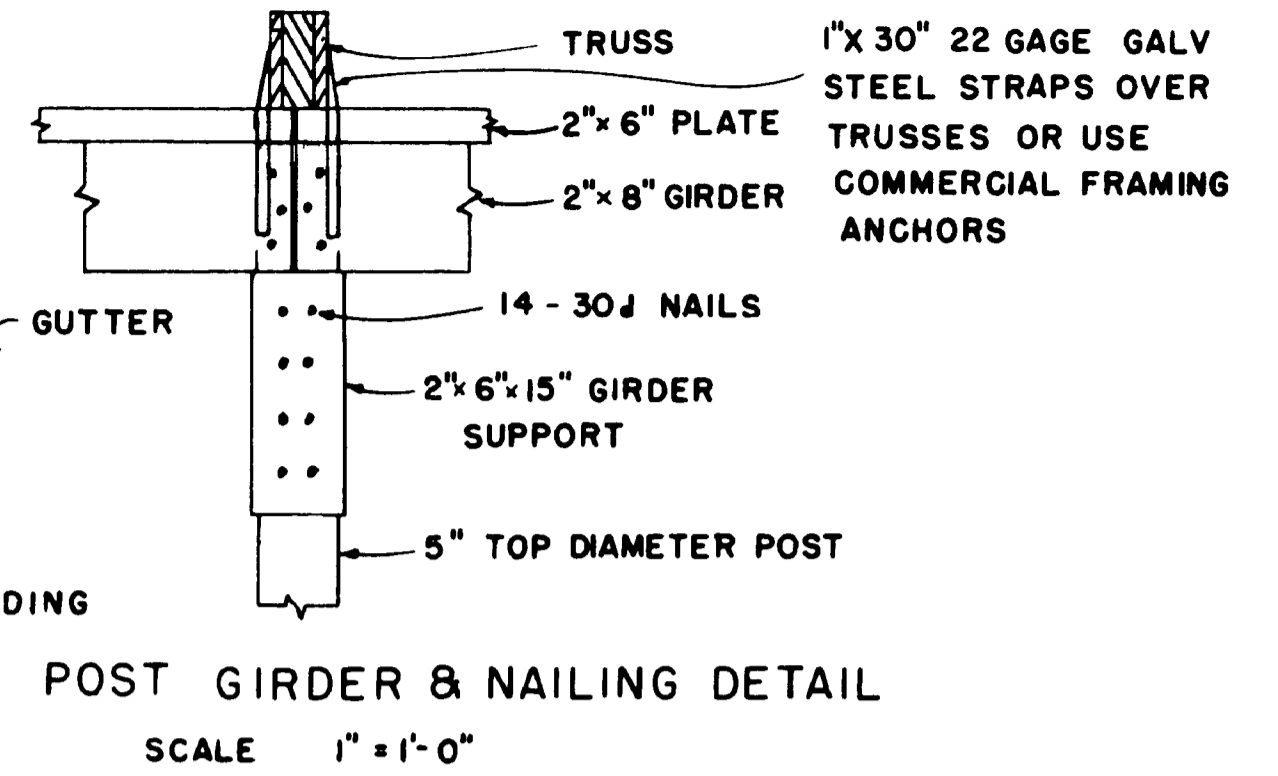
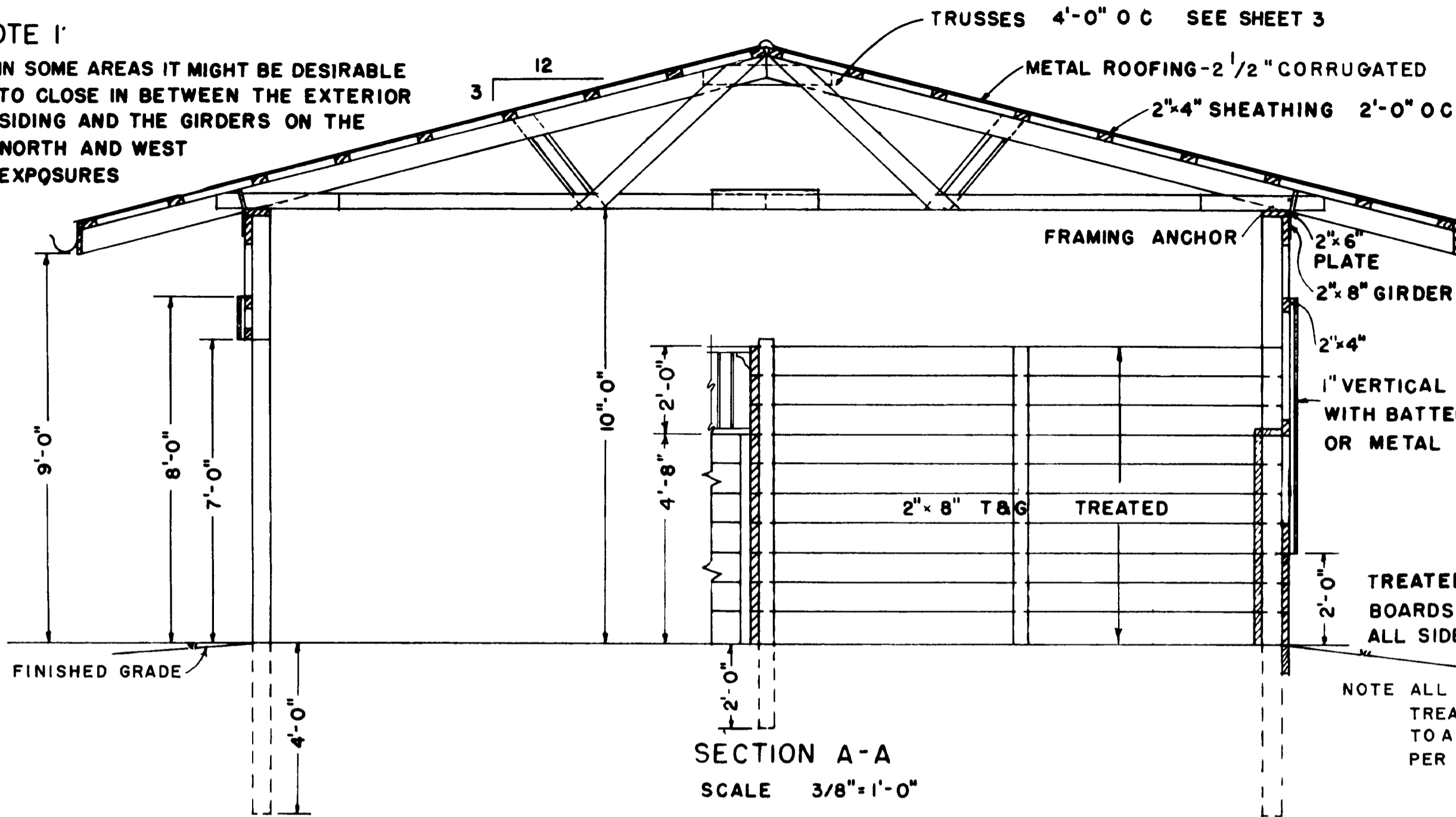
## HORSE BARN-8STALL

VA '67 EX. 6010 SHEET 3 OF 3

REVIEWED 1972

**NOTE 1**

IN SOME AREAS IT MIGHT BE DESIRABLE TO CLOSE IN BETWEEN THE EXTERIOR SIDING AND THE GIRDERS ON THE NORTH AND WEST EXPOSURES



NOTE ALL POSTS TO BE PRESSURE-TREATED WITH PRESERVATIVE TO A RETENTION OF 8 POUNDS PER CUBIC FOOT

NOTE. LOCATE AND USE PROPER TYPE OF EQUIPMENT INSIDE OF STALLS TO PREVENT INJURY OF HORSES PLACE FEED BOX AND WATERERS IN CORNERS

"THESE PLANS ARE FOR USE AS A CONSTRUCTION GUIDE IF A CONSTRUCTION CONTRACT IS TO BE MADE, WRITTEN SPECIFICATIONS ARE NEEDED"

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**HORSE BARN-8 STALL**

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