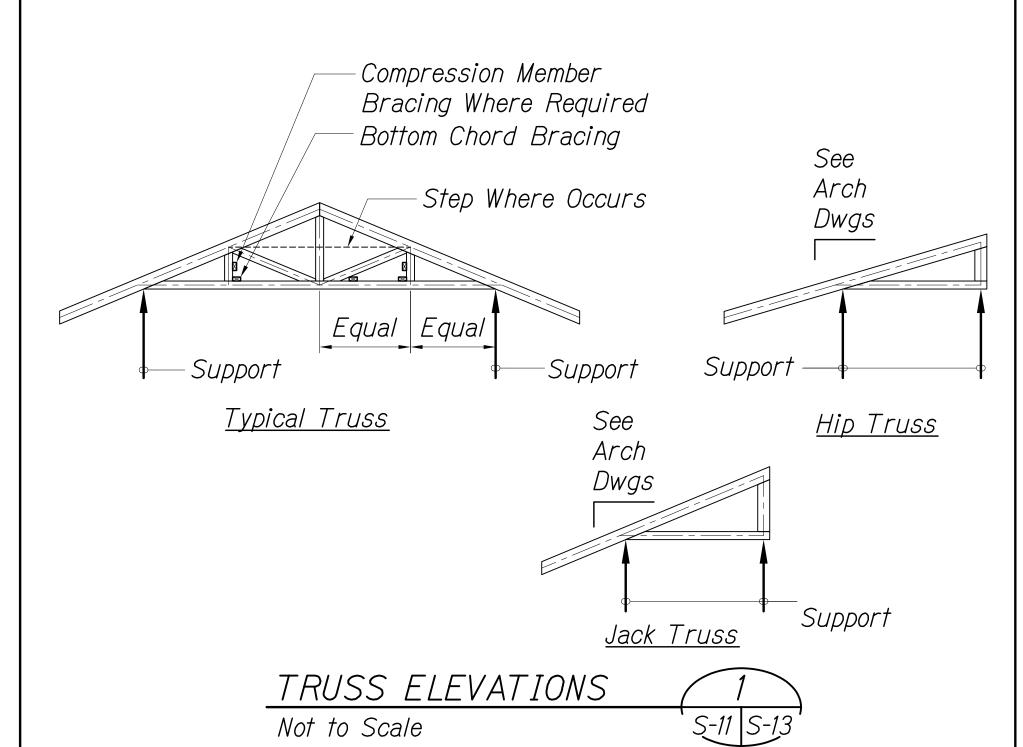
## Metal-Plate Connected Wood Trusses:

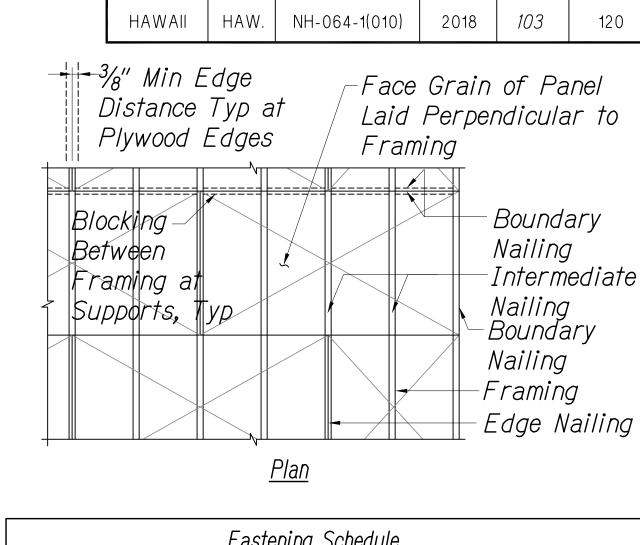
- A. Metal-plate-connected wood trusses shall comply with:
- 1. TPI 1, National Design Standard for metal-plate-connected wood truss construction.
- 2. TPI DSB, recommended design specification for temporary bracing of metal-plate-connected wood trusses.
- 3. TIP HIB, commentary and recommendation for handling, installing and bracing metal-plate-connected wood trusses.
- B. The fabricator shall be a member of tpi and have a minimum of 3 years successful experience in the fabrication of metal-plate-connected wood trusses. the fabricator shall have sufficient production capacity to produce, transport and deliver the required trusses without cause of delay in the work.
- C. Truss construction documents shall be prepared or under the supervision of a qualified professional engineer licensed to practice in the state of hawaii and shall be provided to the building official and approved prior to installation. truss construction documents shall include, at a minimum, the information specified below:
- 1. Show location, pitch, span, camber, configuration and spacing for each type of truss required.
- 2. Indicate sizes, stress grade and species for lumber.
- 3. Indicate locations of permanent bracing required to prevent buckling of individual truss members due to design loadS.
- 4. Indicate type, size, material, finish, design values, orientation, and location of metal connector plates.
- 5. Show splice details and bearing details.
- 6. Include structural analysis data signed and sealed by the qualified professional engineer responsible for the design.
- D. Wood shall be preservative treated. 2

  E. Metal connector plates shall be hot dipped galvanized astm a 653, g185 coating designation, and not less than 0.036 inch.

  F. Truss members shall not be cut, notched,
- drilled, spliced or otherwise altered in any way without the approval of a registered design professional.
- G. Multi-ply trusses shall be nailed to each other with 16d common nails at 10 inches o.c. along all truss members.
- H. SEe architectural drawings for slopes of top and bottom chords.
- I. Structural performance
- 1. Roof dead load (not including self weight of trusses) =11 psf
- 2. Roof live load top chord = 20 psf (reducible)
- 3. Bottom chord live load = 10 psf

- 4. Wind loads in accordance with building code criteria noted on drawings
- 5. Load combinations in accordance with building code.
- 6. Top chord and bottom chord live load need not act concurrently.
- 7. Vertical deflection under total load shall be limited to 1/240 of span or 1 1/4", whichever is less.
- 8. Vertical deflection under live or wind load shall be limited to 1/360 of span or 3/4", whichever is less.
- 9. Wind loads along collector trusses are reversible. loads along top chord shall be transferred to bottom chord through truss member connections.
- 10. Minimum truss member sizes
  - a. Top chord = 2x6
  - b. Bottom chord = 2x4
- c. Web members = 2x4





PROJ. NO.

FED. ROAD

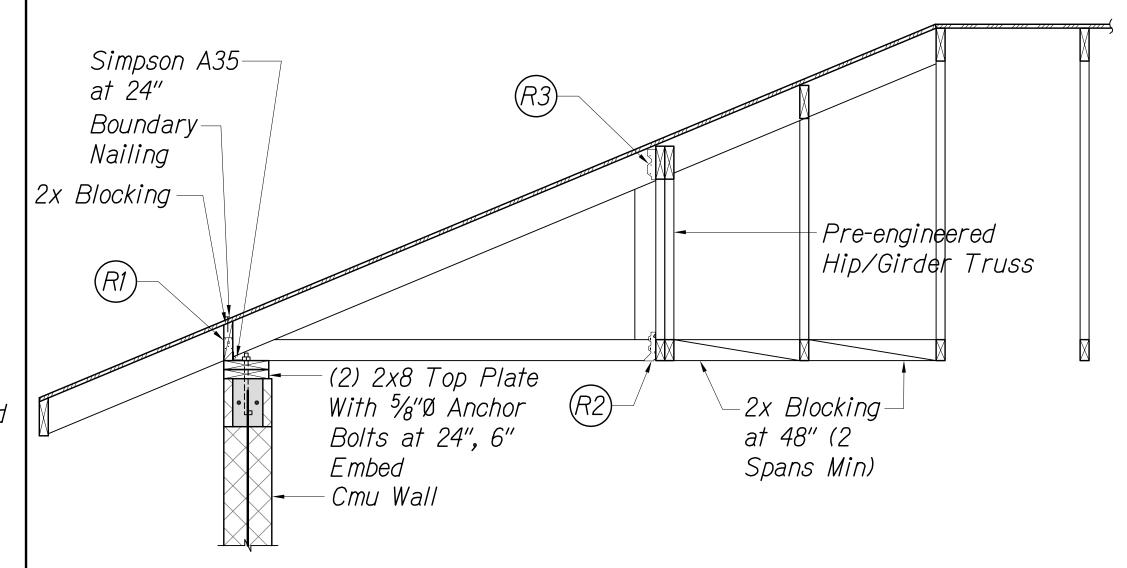
DIST. NO.

FISCAL SHEET YEAR NO.

SHEETS

Fastening Schedule						
Location	Edge	Boundaries	Intermediate	Remarks		
Roof	8d at 6"	8d at 6"	8d at 12"			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

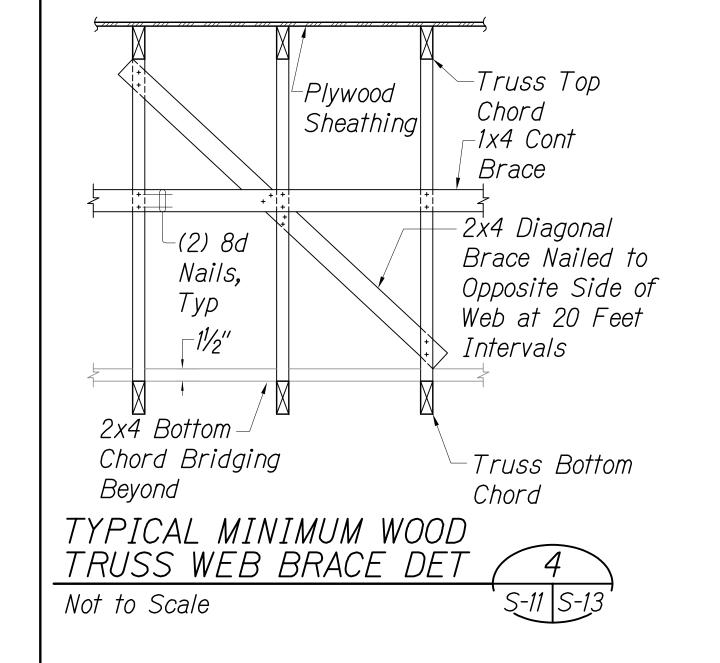


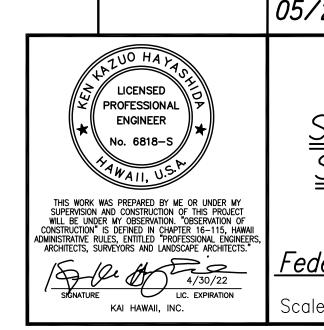


## At Typical, Girder, Jack/Hip Truss

	Connector Schedule							
	Member	Support	(R1)	R2	R3	R4)		
	Typical Truss	Wall/Beam, Girder Truss	Simpson H10	-	_	-		
	Jack Truss	Wall/Beam, Hip/Girder Truss	Simpson H1	Simpson LUS26	Simpson LS50	-		
	Hip Truss	Wall/Beam, Hip/Girder Truss	(2) Simpson LS50	Simpson SUR/L26	Simpson LS50	-		
	Girder Truss	Wall/Beam	(2) Simpson H25A	-	-	-		







STORAGE ROOF FRAMING
SECTIONS AND DETAILS

Sand Island Access Road

<u>Truck Weigh Station</u>

Federal Aid Project No. NH-064-1(010)

Scale: As Noted Date: January 2021

SHEET No. S-13 OF 120 SHEETS

RMTC JOB NO. : 1-19548-0E

SURVEY PLC
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TRACED BY
DESIGNED E
QUANTITIES