

FLORIDA BUILDING CODE	
Compliance Summary	
TYPE OF CONSTRUCTION	
Roof: Hip Construction, Wood Trusses @ 24" O.C. Walls: 8" CMU Block Floor: 4" Thk. Concrete Slab w/ Fibermesh Concrete Additive Foundation: Continuous Footer/Stem Wall	
ROOF DECKING	
Material: 5/8" CDX Plywood or 5/8" O.S.B. Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing Fasteners: Ring Shank Nails per schedule on sheet 6.4	
HURRICANE UPLIFT CONNECTORS	
Truss Anchors: SIMPSON HETA20 @ Ea. Truss End (Typ. U.O.N.) Porch Column Base Connector: (4) #5 Rebar w/ 12" hooks into footing Porch Column to Beam Connector: (4) #5 Rebar w/ 12" hooks into beam	
FOOTINGS AND FOUNDATIONS	
Footing: 20"x10" Cont. W/2-#5 Bars Cont. Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.	

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2023 FLORIDA, 8th EDITION BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATEGORY: 2, EXPOSURE: "B"

BASED ON ASCE 7-22, 2023 FBC 1609-A WIND VELOCITY: V<sub>ULT</sub> = 130 MPH  
V<sub>ASD</sub> = 101 MPH

3. ROOF DESIGN LOADS:  
SUPERIMPOSED DEAD LOADS: 20 PSF  
SUPERIMPOSED LIVE LOADS: 20 PSF

4. FLOOR DESIGN LOADS:  
SUPERIMPOSED DEAD LOADS: 25 PSF  
SUPERIMPOSED LIVE LOADS:  
RESIDENTIAL: 40 PSF  
BALCONIES: 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 1° TO 21°	
WIND ZONE	WIND AREA
ROOF 1° TO 21°	1
	2
	3
	4
	5
	6
WALL	7
	8
	9
	10
	11
	12

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BUILDING HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	.82	1.21	1.41
20	.89	1.29	1.59
25	.94	1.38	1.61
30	1.00	1.40	1.66

FRAMING ANCHOR SCHEDULE

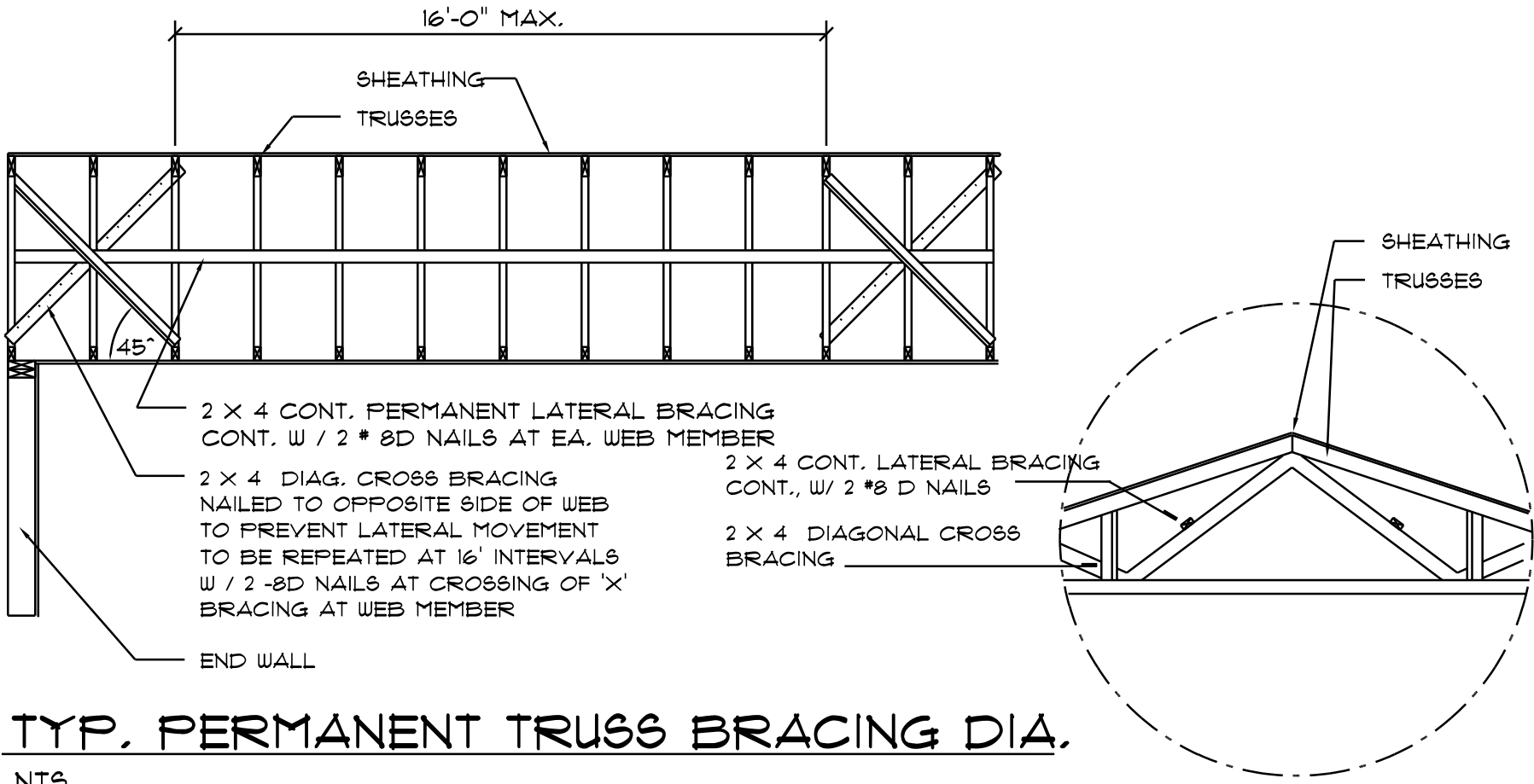
APPLICATION	MANUFR/MODEL
TRUSSES TO WALL:	SIMPSON HETA20 w/ GALV'D TRUSS SEAT
PORCH BEAM TO COL.:	(2) #5 REBAR TURNED INTO BEAM EACH WAY 12" MIN.
PORCH POST TO FND.:	(4) #5 REBAR CONNECTED TO FOUNDATION

NOTE:  
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:  
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

NOTE:  
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:  
"SIMPSON" PRODUCT APPROVALS:  
MIAMI/DADE COUNTY REPORT #91-0107.05, #96-1126.11, #99-0623.04  
SBCCI NER-443, NER-393

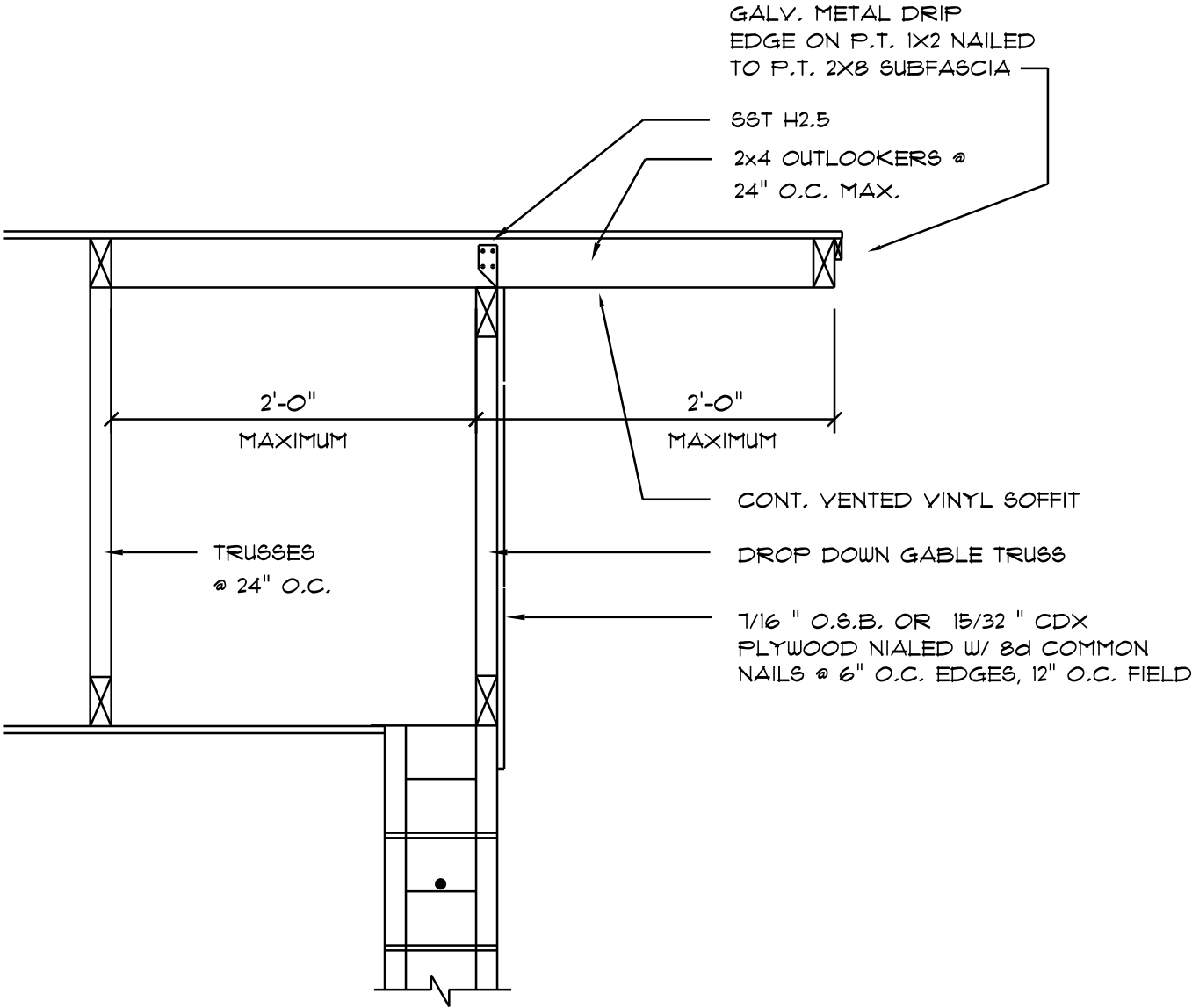


TYP. PERMANENT TRUSS BRACING DIA. NTS

NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

Truss Bracing DETAILS

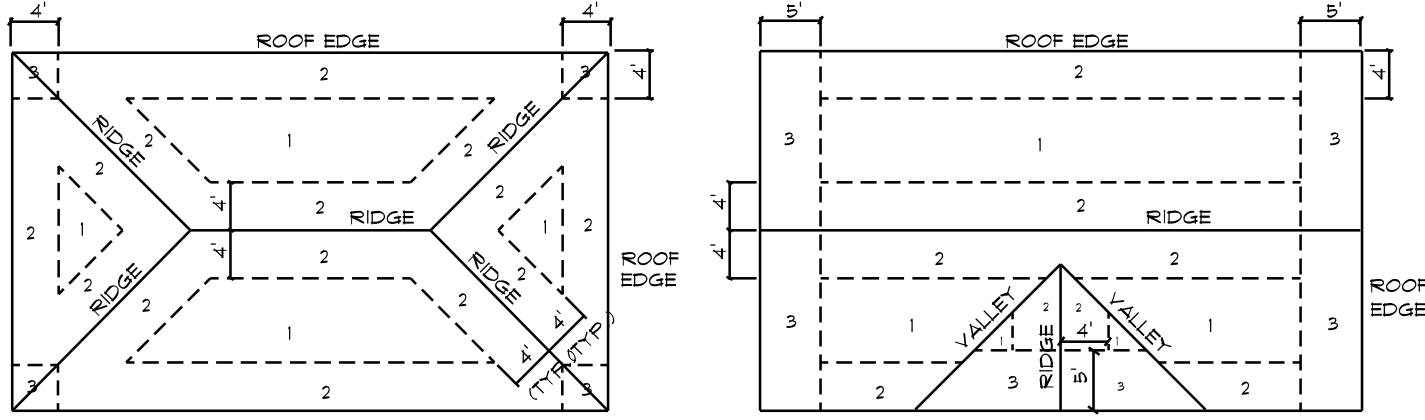
SCALE: AS NOTED



Gable End DETAIL

SCALE: NONE

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1			6 in. o.c. EDGE 6 in. o.c. FIELD
2	1/16" O.S.B. OR 15/32 CDX	2 15"x0.13" RING SHANK NAILS OR 3"x0.120" RING SHANK NAILS	6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



ROOF SHEATHING NAILING ZONES (HIP ROOF) ROOF SHEATHING NAILING ZONES (GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

B

General Roofing NOTES:

DECK REQUIREMENTS:  
METAL PANELS MUST BE FASTENED TO 1X4 FURRING PURLINS OR 1/2" PLYWOOD  
CAULKING:  
MUST BE APPROVED BY THE MANUFACTURER, BUTYL SEALANT SUPPLIED IN TAPE OR GUN-GRADE FORM.

METAL PANEL:  
METAL PANELS SHALL BE MIN. 29 GAUGE AND COMPLY WITH ASTM A-792 AND D 7-98

FASTENERS:  
FASTENERS FOR METAL PANELS SHALL BE GALVANIZED WOOD FAST SCREW, MINIMUM OF #3 X 1 1/2" HEX HEAD.  
ATTACHMENT:  
METAL PANELS SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN 24" O.C. WHERE ROOF IS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF METAL PANELS SHALL CONFORM WITH ASTM E 330 OR FA 125.

BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFR'S INSTALLATION INSTRUCTIONS.

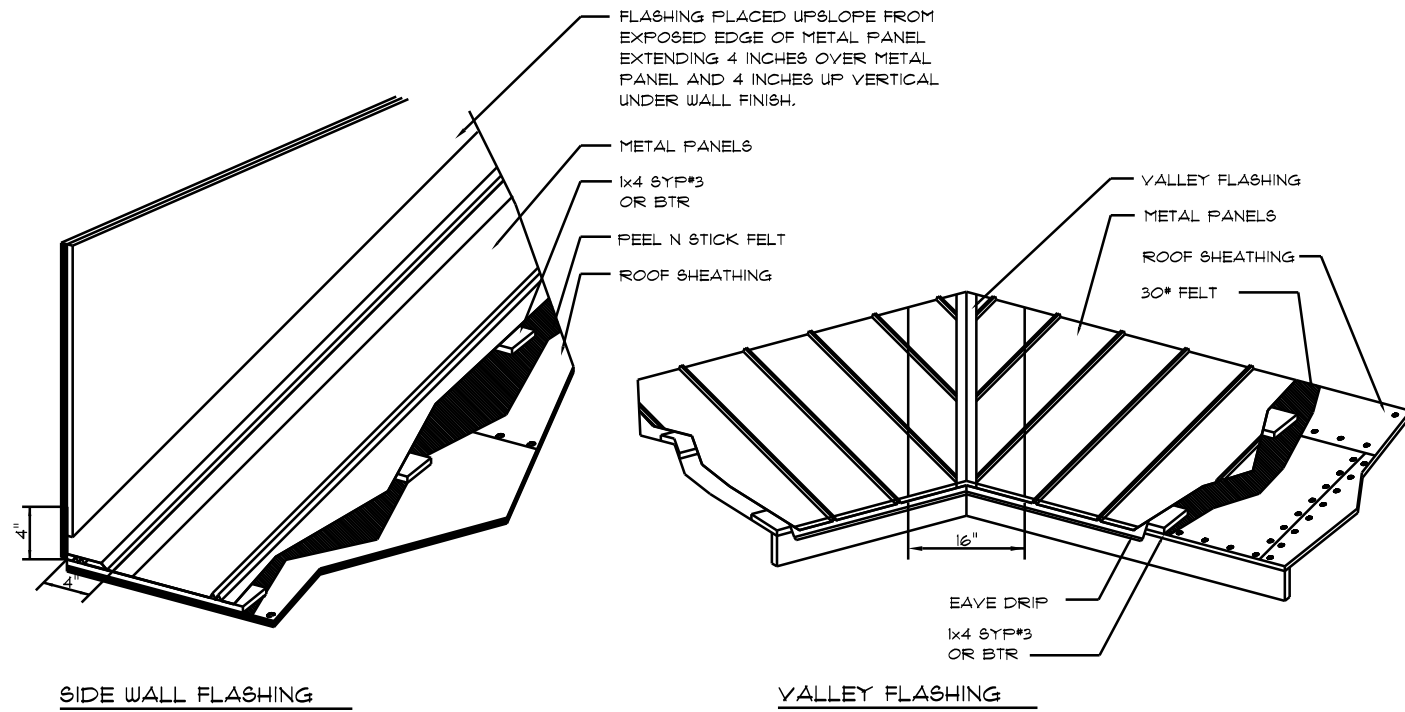
1. RC-1 - RIDGE CAP
2. ED-1 - EAVE DRIP
3. EF-3 - EAVE FLASHING
4. SW-1 - SIDEWALL FLASHING
5. EW-1 - ENDWALL FLASHING
6. GR-4 - GABLE END OR RAKE BOARD FLASHING
7. TF-1 - TRANSITION FLASHING
8. PV-2 - PREFORMED VALLEY FLASHING
9. BUTYL TAPE
10. SEALANT TAPE
11. PIPEBOOT

UNDERLAYMENT APPLICATION:  
UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 71 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

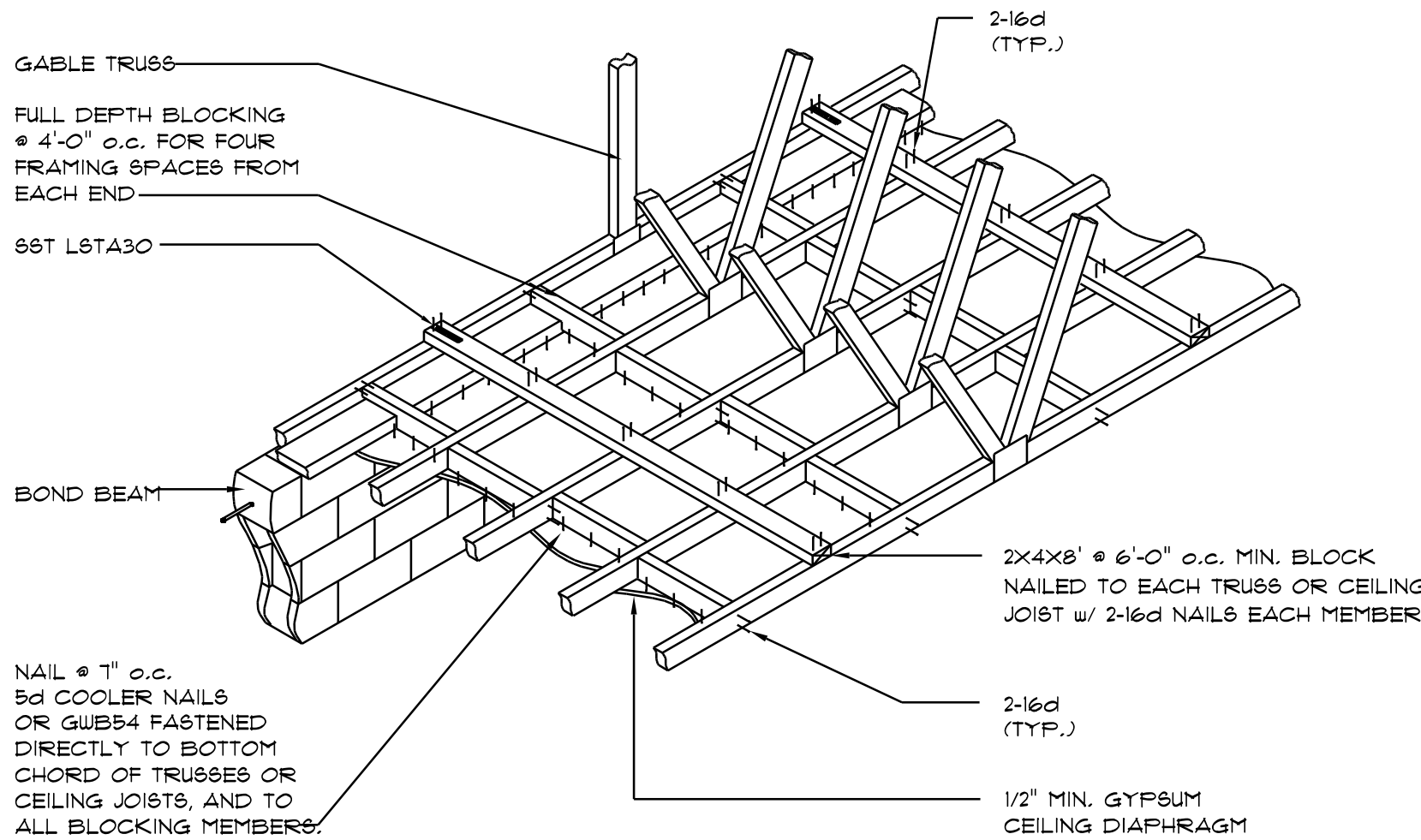
VALLEYS:  
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ROOFING MATERIAL. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:  
1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1501.3.9.2.  
2. OPEN VALLEYS: VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.  
3. CLOSED VALLEYS: VALLEY LINING SHALL BE ONE OF THE FOLLOWING:  
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.  
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.  
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 1910.



METAL ROOFING. DET.

SCALE: NONE

8M-R15 METAL ROOFING PANELS ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE FOR BUILDINGS W/ 80' MEAN ROOF HEIGHT, MIN. 3/12 PITCH BASED ON ASCE 7-98, EXPOSURE "C"									
ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO	100 - 110 O/C SPACING	TRIM	120 - 130 O/C SPACING	TRIM	140 - 150 O/C SPACING	TRIM
1	WD. SCREW	#3 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	12"
	MTL. SCR.	#12 X 1" #14 X 1/8"	< 18 GA > 18 GA	36"	18"	24"	12"	24"	12"
2 & 3	WD. SCREW	#3 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	8"
	MTL. SCR.	#12 X 1" #14 X 1/8"	< 18 GA > 18 GA	36"	18"	24"	12"	24"	8"



DIRECT TRUSS TO MASONRY CONNECTION  
ENDWALL FOR GYPSUM CEILING DIAPHRAGM

SCALE: NONE

REVISIONS	
Apr. 30th, 2025	



CUSTOM HOME FOR:  
**Raphael Residence**  
SUWANNEE COUNTY, FL

**NICHOLAS PAUL GEISLER**  
ARCHITECT  
N.C.A.R.B. Certified

SHEET NUMBER  
**S.3**  
OF 4 SHEETS

Nicholas  
as  
Geisler

Digitally signed  
by Nicholas  
Geisler  
Date:  
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