

REV. DATE

DATE: 4-1-2023 JOB NAME: Y. Volodko

DRAWN BY: NBP SCALE: As Shown

Page: 1 of 3 Construction Plans-1

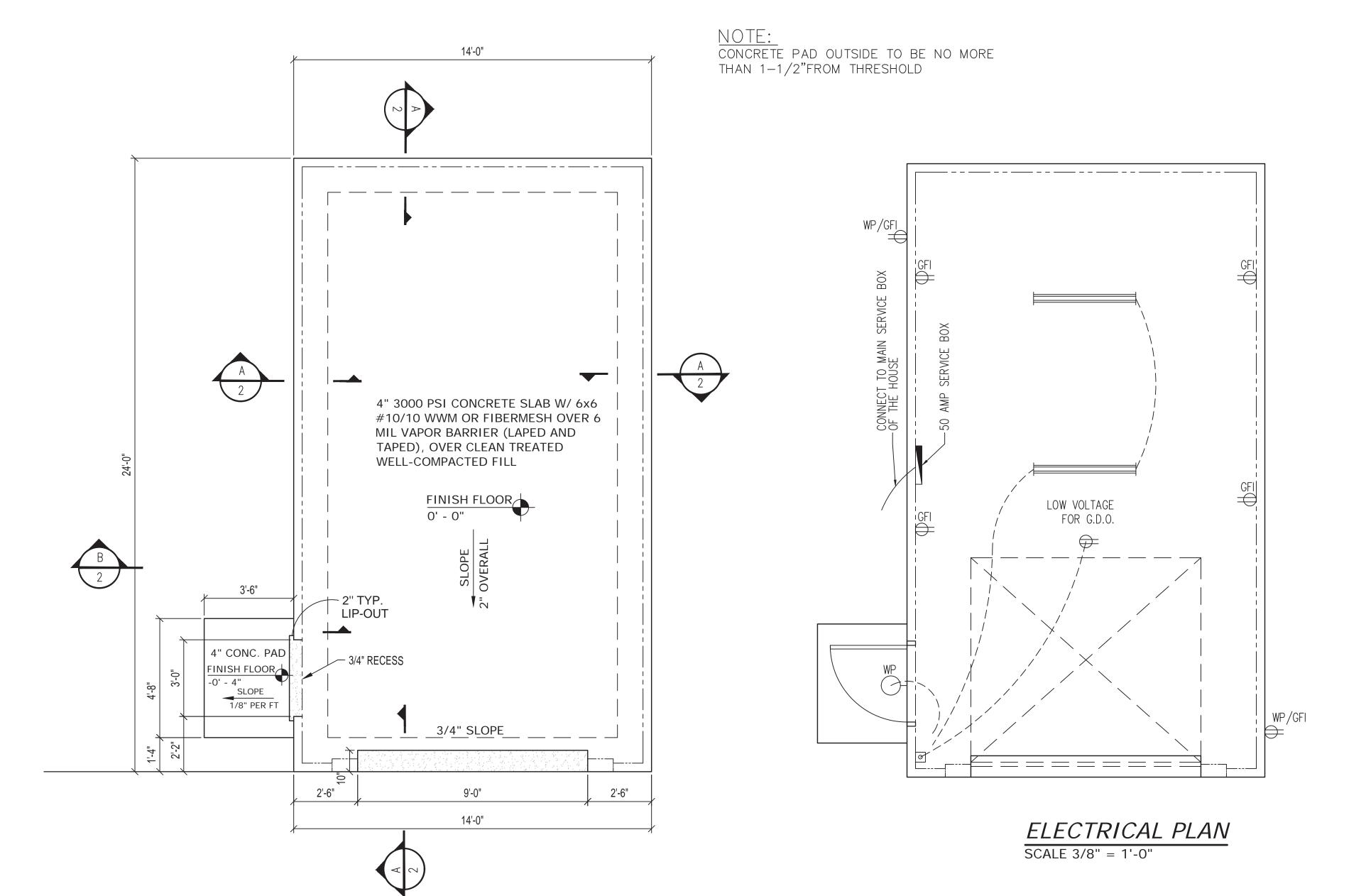
NIKOLAY'S DESIGN & DRAFTING SERVICES, LLC THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION AS AN 'ARCHITECTUAL WORK' UNDER SEC. 102 OF THE COPYRIGHT ACT, 17 U.S.O. AS AMENDED DECEMBER 1990 AND KNOWN AS ARCHITECTUAL WORKS COPYRIGHT PROTECTION ACT OF 1990. THE PROTECTION INCLUDES BUT IS NOT LIMITED TO OVERALL FORM AS WELL AS ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS OF DESIGN. UNDER SUCH PROTECTION, UNAUTORIZED USE OF THESE PLANS, WORK OR HOME PRESENTED, CAN LEGALLY RESULT IN THE CESSATION OF CONSTRUCTION OR BUILDING BEING SEIZED AND / OR MONETARY COMPENSATION TO NIKOLAY'S DESIGN & DRAFTING SERVICES, LLC. THE CONSEPTUAL DESIGN AND LAYOUT FOR THIS STRUCTURE HAS BEEN PROVIDED TO NIKOLAY'S DESIGN & DRAFTING SERVICES, LLC BY THE OWNER OR CONTRUCTOR AND ANY SIMILARITIES TO ANOTHER PLAN IS THE TOTAL RESPONSIBILITY OF OWNER OR CONTRACTOR.



CONTRACTORS AND/OR OWNER TO FIELD VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION

REV. DATE

SHED ADDITION:



			DE	SIGN DA	ΙΤΑ			
				CRITERIA:		023 FBC-R,	, SEC R301.	2
ULTIN	ATE DES	IGN WIND	SPEED (M	PH) V _{IIIT} =		15	55	
			•	PH) V _{ASD} =		12	21	
			_	ATEGORY:			С	
	r			GHT (FT) =			.00	
				N (FT) a =			00	
				OF STYLE:		GABLE	ROOF	
			RO	OF PITCH:		4.5	TO 6	IN 12
			RISK C	ATEGORY:			II	
	(OCCUPAN	CY CLASSIF	FICATION:	ENC	LOSED / PA	ARTIALLY C	PEN
	INTER	NAL PRESS	SURE COEF	FICIENT =		+/-(0.18	
HEIGH	IT & EXPO	SURE ADJ	USTMENT	FACTOR =		1.	21	
		ADJUST	ED C & C V	VIND PRES	SURES (AS	D) (PSF)		
ROOF	EWA =	10 FT ²	EWA =	20 FT ²	EWA =	50 FT ²	EWA =	100 FT ²
Zone 1'	NA	NA	NA	NA	NA	NA	NA	NA
Zone 1	20.9	-44.8	18.9	-40.4	16.5	-34.7	14.7	-30.4
Zone 2	20.9	-71.4	18.9	-61.0	16.5	-47.2	14.7	-36.8
Zone 3	20.9	-84.7	18.9	-71.9	16.5	-54.9	14.7	-42.1
WALL	EWA =	10 FT ²	EWA =	20 FT ²	EWA =	50 FT ²	EWA =	100 FT ²
Zone 4	31.4	-34.1	30.1	-32.7	28.1	-30.8	26.8	-29.4
Zone 5	31.4	-42.1	30.1	-39.3	28.1	-35.5	26.8	-32.7
			1					
GA	RAGE DO	OR				/E LOAD =		
9 X 7	27.6	-31.3				/E LOAD =		
16 X 7	26.5	-29.5		SOIL B	EARING CA	APACITY =	2000 PSF	



FOUNDATION PLAN

SCALE 3/8" = 1'-0"

2

- (2) #5 REBAR CONT. @ BOT. MONOLITHIC FOOTING

N.T.S.

THICKENED SLAB **EXTERIOR W/ STEP** N.T.S.

2

GROUND FAULT INTERRUPTER OUTLET SWITCH INCAND. WALL FIX. BUTTON FOR G.D.O. FLOURESCENT FIX. OR LED 4'-0" WIRE/CONDUIT

ELECTRICAL PLAN LEGEND

WATERPROOF OUTLET

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Page: 2 of 3 Construction Plans-2

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NOTE:

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Yelena Volodko

DATE: 4-1-2023 JOB NAME: Y. Volodko

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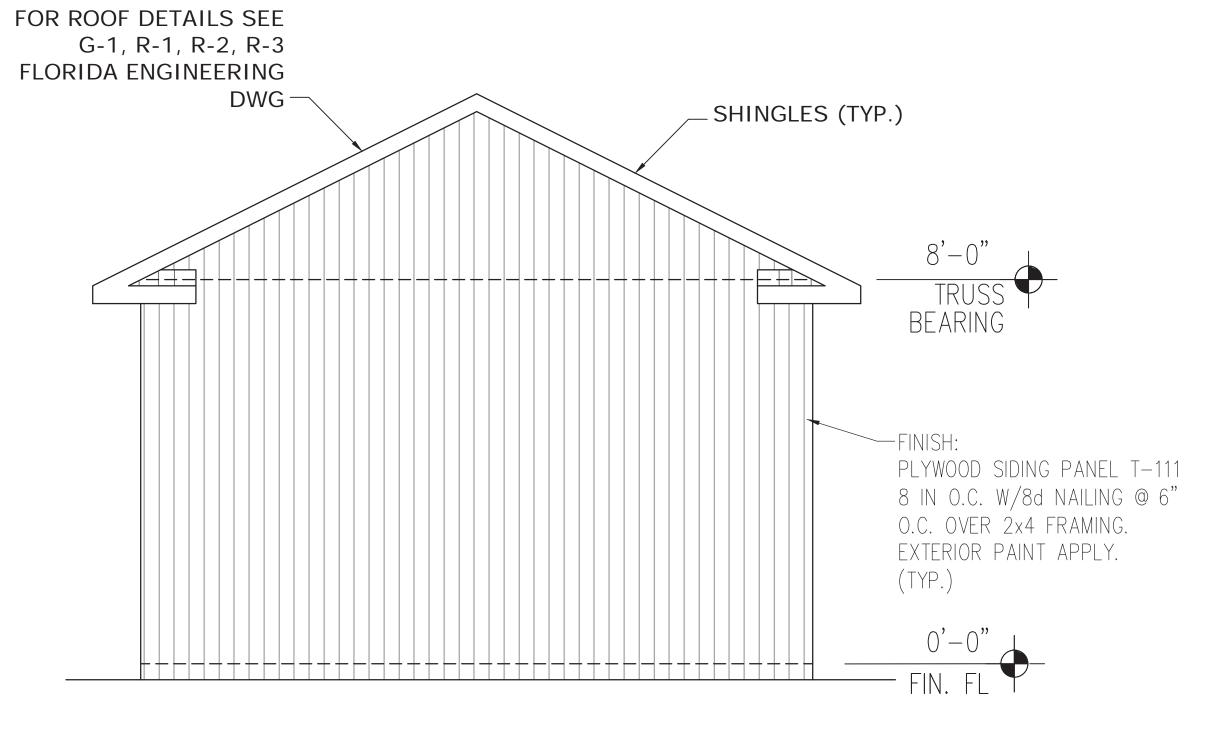
Page: 3 of 3 Elevation

SHINGLES (TYP.) -ROOF VENT-TRUSS BEARING 3068 S/C

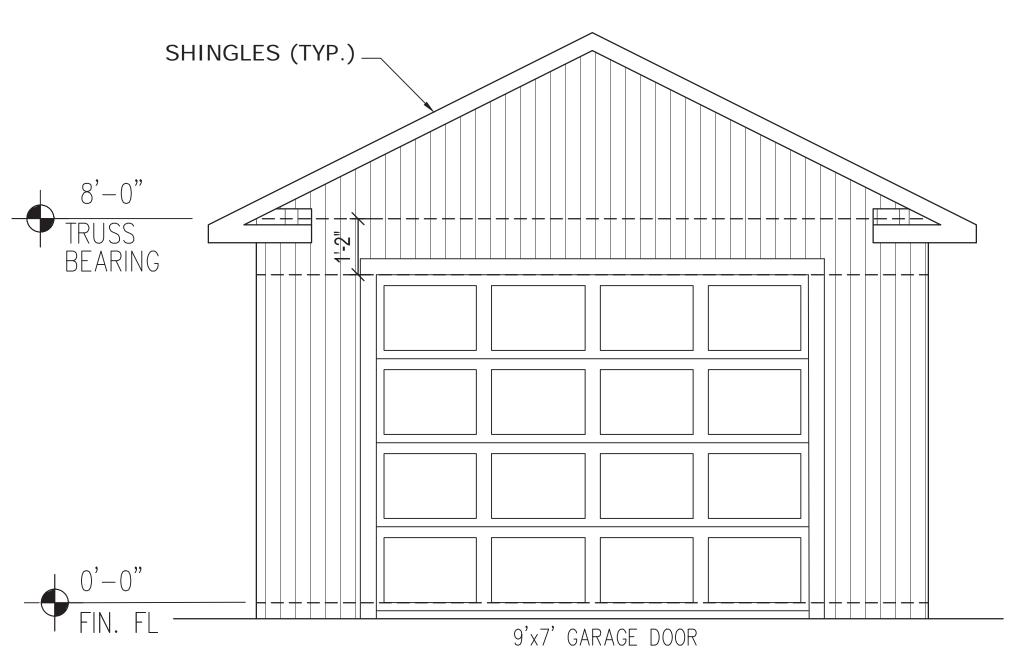
> LEFT ELEVATION SCALE 1/2" = 1'-0"

SHINGLES (TYP.) ROOF VENT TRUSS BEARING

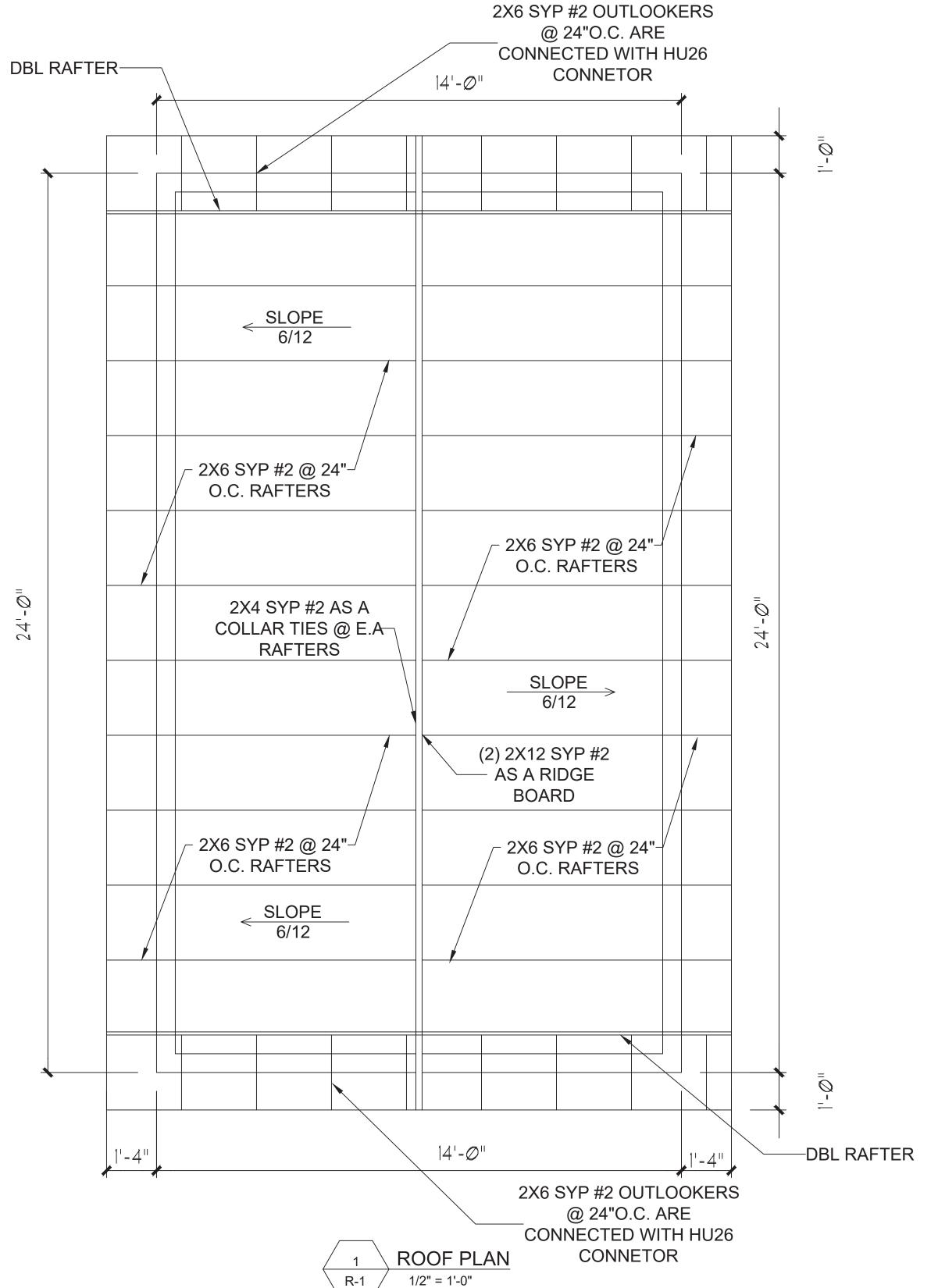
> RIGHT ELEVATION SCALE 1/2" = 1'-0"



REAR ELEVATION SCALE 1/2" = 1'-0"



FRONT ELEVATION SCALE 1/2" = 1'-0"



CONNECTOR LIST

CONNECT TO

CMU BLOCK

WOOD WALL

RIDGE BEAM

RAFTER

GIRDER JOIST

CMU WALL

HIP BEAM

WALL CORNER

MATERIAL

RAFTERS/JOISTS

RAFTERS/JOISTS

RAFTER

RAFTER

JOIST

RAFTER/JOIST

RIDGE BEAM

HIP BEAM

USING

HETA20

HTS20

LRU208/210/212Z

MSTA36

MTS20

HUS26/28/210/212

HRC/HHRC

(2) HETA / HTS20

RAFTER SIZE

2X6

2X8

2X10

2X12

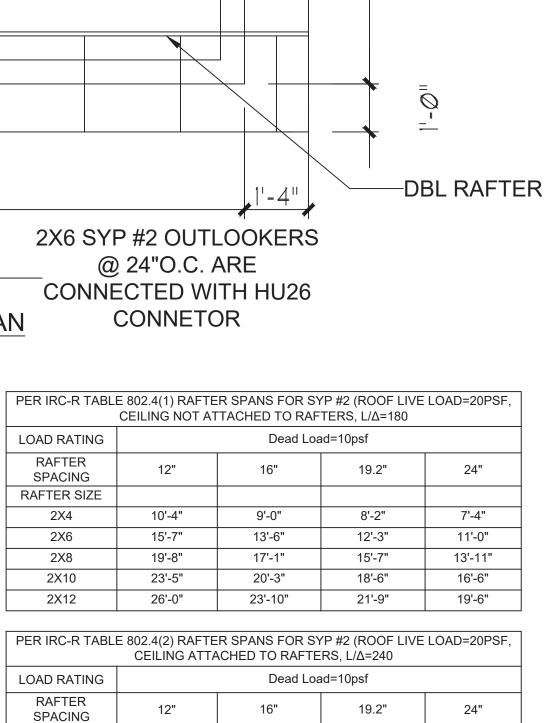
9'-5"

14'-9"

19'-6"

23'-5"

26'-0"



8'-7"

13'-5"

17'-1"

20'-3"

23'-10"

7'-4"

11'-0"

13'-11"

16'-6"

19'-6"

8'-1"

12'-3"

18'-6"

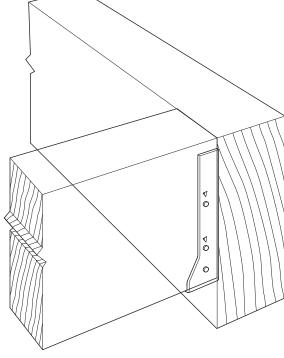
21'-9"

		- 2X8 SYP #2 @ 24"- O.C. JOISTS	
6			
24'-0"			
		2X8 SYP #2 @ 24" O.C. JOISTS	
4			
	•	14'-0"	
		2 CEILING PLAN R-1 1/2" = 1'-0"	

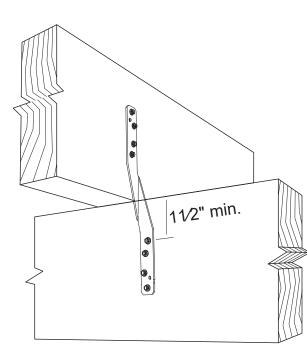
Per IRC-R Tab		oist Spans for SY ive Load=10psf, l		ble Attic w/o					
LOAD RATING	Dead Load=5psf								
RAFTER SPACING	12"	16"	19.2"	24"					
RAFTER SIZE									
2X4	11'-10"	10'-9"	10'-2"	9'-3"					
2X6	18'-8"	16'-11"	15'-7"	13'-11"					
2X8	24'-7"	21'-7"	19'-8"	17'-7"					
2X10	26'-0"	25'-7"	23'-5"	20'-11"					

	storage	e, Live Load=20	psf,)	
LOAD RATING		Dead Loa	ad=10psf	
RAFTER SPACING	12"	16"	19.2"	24"
RAFTER SIZE				
2X4	9'-3"	8'-0"	7'-4"	6'-7"
2X6	13'-11"	12'-0"	11'-0"	9'-10'
2X8	17'-7"	15'-3"	13'-11"	12'-6'
2X10	20'-11"	18'-0"	16'-6"	14'-9'

	HIP VAL	LEY CONVERSION		RAFTER LE	ENGTH CHART
F COMMO	OOF	THEN HIP/VA RAFTER ROO)F	ROOF PITCH	FACTOR
PITCH IS		PITCH BECO	MES	3/12	1.05
1/12	5°	1/17	3°	4/12	1.07
2/12	10°	2/17	7°	5/12	1.10
3/12	14°	3/17	10°	6/12	1.14
4/12	18°	4/17	13°	7/12	1.17
5/12	23°	5/17	16°	8/12	1.20
6/12	27°	6/17	19°	9/12	1.25
7/12	30°	7/17	22°	10/12	1.30
8/12	34°	8/17	25°	11/12	1.35
9/12	37°	9/17	28°	12/12	1.40
10/12	40°	10/17	30°	14/12	1.54
11/12	42°	11/17	33°	16/12	1.70
12/12	45°	12/17	35°	MULTIPLY HOP	RIZONTAL SPAN OF
		ART FOR SIMPLE ROOF ONLY APPLY FOR DUAL PITCH ROO			FACTOR. CHOOSE CTOR BY ROOF PITCH



Typical HU Installed on a Beam



Typical HTS Installation

NOTES:

 ENSURE DBL RAFTERS PRESENT WHERE AHU IS CONNECTED (IF ANY).

SCOPE OF WORK:

 ROOF AND CEILING FRAMING. SEE STRUCTURAL PLANS FOR FOUNDATION, BEAM COLUMN AND STRUCTURAL DETAILS.

NOTE:
CONTACT ENGINEER OF RECORD BEFORE
REPLACING ANY BEAMS OR COLUMNS

Rafter	Rafter	Roof Span (ft)							
Slope	Spacing (in)	12	24	36					
	("")	Required no. of 16d common nails per heel joint splices							
	12	3	6	9					
	16	4	8	12					
	19.2	5	10	14					
03:12	24	6	12	18					
	12	3	5	7					
	16	3	6	9					
	19.2	4	7	11					
04:12	24	5	9	13					
	12	3	4	6					
	16	3	5	7					
	19.2	3	6	9					
05:12	24	4	7	11					
	12	3	3	4					
	16	3	4	5					
	19.2	3	4	6					
07:12	24	3	5	8					
	12	3	3	3					
	16	3	3	4					
	19.2	3	4	5					
09:12	24	3	4	6					
	12	3	3	3					
	16	3	3	3					
	19.2	3	3	4					
12:12	24	3	3	5					

10d common nails shall be permitted to be substituted for 16d common nails where required number of nails is taken as 1.2 times the number of 16d common nails, rounded up to the next full nail

ALL THE DESIGN AND DETAILS ON THIS PLAN ARE THE PROPERTY OF FLORIDA ENGINEERING LLC, AND SHALL NOT BE USED, COPIED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF FLORIDA ENGINEERING LLC.

Florida
Engineering, LLC
4161 TAMIAMI TRAIL UNIT
PORT CHARLOTTE, FL 339
PH. 941-391-5980



THAT THE BUILDING DESIGN ENGINEER OF THAT THE BUILDING DESIGN & SHOWN ON THESE AND AS ACCOMPANIED BY DESIGN & SUPPORT DOCUMENTS RMS TO THE 2023 8th EDITION FLORIDA BUILDING CODE. ERTIFICATION DOES NOT INCLUDE ROOF TRUSS INCLUDE ROOF TRUSS INCLUDE ROOF TRUSS INCLUDE ROOF TRUSS INCLUDE BECORD.

AN HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2023 FION FLORIDA BUILDING CODE WITH SUPPLEMENTS.

1520 OVERBROOK RD ENGLEWOOD, FL34223

> REV 4: REV 5:

DRAWN BY: KC / RK
REVIEWED BY: TB
PROJECT #: 2311050

SCALE: AS PER PLAN

SHEET TITLE:

ROOF & CEILING PLAN

SHEET NUMBER:

R-1

- **GENERAL NOTES:** THE CONTRACTOR/OWNER IS TO VERIFY ALL SITE CONDITIONS, PROPERTY DIMENSIONS, AND PRODUCT AVAILABILITY, OPENINGS FOR WINDOWS AND DOORS AND ATTACHMENT REQUIREMENTS
- ALL STRUCTURAL DESIGN HAS BEEN CARRIED OUT PER THE PROVISIONS OF CHAPTER 16 OF THE BUILDING CODE, AS WELL AS ASCE 7. ENGINEERING DESIGNS PROVIDED IN THESE DETAIL SPECIFICATIONS REPRESENT THE MINIMUM DESIGN CRITERIA FOR CONSTRUCTION TO THE CODES IDENTIFIED ABOVE.
- ANY PRODUCT OR MATERIAL SUBSTITUTION IS PERMITTED AS LONG AS THE SUBSTITUTION IS EQUAL TO OR GREATER THAN THE ORIGINAL SPECIFIED PRODUCT ALL TESTING DATA OR PRODUCT VERIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR THE ENGINEER HAS NOT PROVIDED REVIEW OF SUCH MATERIAL UNLESS OTHERWISE SPECIFIED.
- THE PRESUMPTIVE LOAD-BEARING VALUES OF THE FOUNDATION SOIL IS TO BE 2000PSF BASED ON THE TABLE R401.4.1. OF THE BUILDING CODE ENGINEER HAS NOT PROVIDED ANY JOB SITE INSPECTIONS UNLESS SPECIFICALLY ARRANGED
- CLADDING PRODUCTS ARE TO BE INSTALLED TO THE MANUFACTURES SPECIFICATIONS, AND TO COMPLY WITH THE BUILDING CODE. AND ASCE7 THE CONTRACTOR IS TO PROVIDE ANY INSTALLATION GUIDELINES OR PRODUCT TESTING REQUIRED BY THE BUILDING OFFICIAL IF REQUESTED.
- ALL CONSTRUCTION WORK AND DESIGN IS SUBJECT TO THE REVIEW AND INTERPRETATION OF THE BUILDING OFFICIALS CONTRACTOR ACKNOWLEDGES THAT ADDITIONAL ENGINEERING DETAILS. AND/OR REQUIREMENTS MAY BE REQUESTED/REQUIRED BY THE PERMITTING AUTHORITY HAVING JURISDICTION, AND SUCH REQUIREMENTS MAY ALTER THE ORIGINAL PROPOSED DESIGN THESE ADJUSTMENTS COULD SUBJECT THE CONTRACTOR TO ADDITIONAL EXPENSES AND ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- HOMEOWNER ASSOCIATION, DEED RESTRICTIONS AND ZONING REQUIREMENTS, ETC. ARE THE RESPONSIBILITY OF THE CONTRACTOR AND NO VERIFICATION OR COMPLIANCE IS EXPRESSED OR IMPLIED
- 10. THE STRUCTURE HAS BEEN DESIGNED TO BE SELF-SUPPORTING AND STABLE WHEN CONSTRUCTION IS COMPLETE THE CONTRACTOR IS RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF
- OVIDE SAFETY OF WORKERS, THE BUILDING AND ALL COMPONENTS OF THE BUILDING ALL TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR 11. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE POSITIVE DRAINAGE FROM THE STRUCTURE OR BUILDING TO ALL APPLICABLE CODES AND ORDINANCES SITE DRAINAGE IS ALSO THE CONTRACTORS
- RESPONSIBILITY THE ENGINEER HAS ACKNOWLEDGED NO REVIEW, COMMENT OR COMPLIANCE.
- 12. NO ENVIRONMENTAL STUDIES HAVE BEEN PERFORMED BY THE ENGINEER. AND IF REQUIRED ARE THE RESPONSIBILITY OF THE CONTRACT.
- 13. THE DESIGN OF ALL PRE-ENGINEERED ROOF TRUSSES INCLUDING GIRDERS FLOOR TRUSSES, AND ALL BEAMS ARE TO BE DESIGNED TO MEET THE BUILDING CODE WITH SUPPLEMENTS, AND ASCE 7. THE DESIGN IS TO INDICATE THE ENGINEER OF RECORD AND BEAR THE SEAL OF SUCH ENGINEER. ALL LATERAL AND CROSS BRACING REQUIRED IS TO BE SPECIFIED BY THE DESIGNER. THE TRUSS OR FLOOR SYSTEM DESIGN SHALL NOT EXERT LATERAL LOADS ON ANY WALL SYSTEM, INTERIOR OR EXTERIOR. THE DESIGN IS TO ALSO INDICATE THE MAGNITUDE OF THE LOADS AND ANY PROVISIONS REQUIRED. THE CONTRACTOR ASSUMES THE RESPONSIBILITY OF REVIEW OF THE PRE-ENGINEERED SYSTEMS AND ANY COMPLIANCE NECESSARY. ANY DEVIATION FROM THE PROPOSED DESIGNS MAY REQUIRE ADDITIONAL REVIEW AND MODIFICATION
- 14. ALL PERMANENT TRUSS BRACING, IN ADDITION TO TRUSS BRACING SPECIFIED BY THE TRUSS ENGINEER SHALL BE INSTALLED PER THE DETAIL IN THESE SHEETS, AND IN ACCORDANCE TO BWT-76 AND
- 15. ALL MATERIAL INSTALLATIONS ARE TO BE PER THE CODES AND STANDARDS REFERENCED

FASCIA & SOFFIT VENTING:

- MINIMUM 2"X4" SUB FASCIA NAILED TO TRUSS TAILS W/(2) 16D NAILS AT EACH TRUSS (EACH PLY WHEN MULTIPLE TRUSS.
- TYPICAL DRIP EDGE & SOFFIT/FASCIA INSTALLED TO MFG SPECIFICATIONS.
- SEE ALUMINUM ENGINEERING SPECIFICATIONS SUPPLIED BY OTHERS FOR FASCIA OR OVERHANG REQUIREMENTS WHEN SCREEN ENCLOSURES OR STRUCTURAL GUTTERS ARE DESIGNED TO BE ATTACHED TO FASCIA. NO VENTING IF USING SPRAY FOAM INSULATION
- SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2).
- ENTRY LANAI CEILING SPECIFICATION OPTIONS:
- ½" SAG RESISTANT GYPSUM BOARD OVER 1"X4" P.T. FURRING STRIPS NAILED @ 16" O.C. W/ (2) 8D NAILS EACH TRUSS 1" NOMINAL PLYWOOD OR OSB FASTENED W/ 8D NAILS 6" O.C. OR 3" X 1 1" STAPLES 4" O.C.
- 5" SAG RESISTANT EXTERIOR DRYWALL

GENERAL STRUCTURAL NOTES:

- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF THE TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHODS OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, SAFETY, DESIGN ADEQUACY AND INSPECTION OF ERECTION BRACING, TEMPORARY SUPPORTS ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OR PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, THE STANDARD DETAILS CONTAINED IN THE ENGINEER OF RECORD
- LOADING APPLIES TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION SHALL NOT EXCEED THE SAFE LOAD CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOAD USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL THE STRUCTURAL FRAMING IS PROPERLY CONNECTED. TOGETHER AND UNTIL ALL TEMPORARY BRACING IS IN PLACE.
- GARAGE TO LIVING DOOR TO BE SOLID W/ 20 MINUTE FIRE RATING & SELF CLOSING HINGES
- GARAGE TO DWELLING SEPARATION TO HAVE 🖟 GYPSUM BOARD ON GARAGE SIDE WALLS & 🖟 TYPE "X" ON CEILINGS W/ HABITABLE ROOMS ABOVE PER FBC 2023 R302.6.
- 9. WALL SECTIONS 4 FOOT OR GREATER IN LENGTH W/ VERTICAL REBAR IN A FILLED CELL AT EACH END SHALL BE CONSIDERED A SHEAR WALL. FILLED CELLS ARE REQUIRED W/ VERTICAL #5 REBAR ON EACH SIDE OF WINDOWS, DOORS & OPENINGS ALSO AT ALL CORNERS & UNDER ALL GIRDER TRUSSES & BEAMS.

SITE PREPARATION NOTES:

- THE BUILDING SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER
- IF THE SITE PREPARATION REQUIREMENTS ARE NOT SPECIFIED BY A GEOTECHNICAL REPORT THE FOLLOWING PROCEDURES SHOULD BE USED AS A MINIMUM WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS EXCAVATE A MINIMUM OF 4" OF EXISTING SOIL REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE
- **UNSUITABLE MATERIAL** THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL
- FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL PLACE IN 8-INCH LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY BASED ON THE MODIFIED PROCTOR
- ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL
- PROVIDE FILED DENSITY TESTS FOR EACH 1,500 SF OF BUILDING AREA FOR EACH LIFT OF CONTROLLED FILL

APPLICABLE CODES:

2023 FLORIDA BUILDING CODE, 8th EDITION

2023 FLORIDA BUILDING CODE, 8th EDITION, BUILDING

2023 FLORIDA BUILDING CODE, 8th EDITION, RESIDENTIAL

2023 FLORIDA BUILDING CODE, 8th EDITION, EXISTING BUILDING

2023 FLORIDA BUILDING CODE, 8th EDITION, MECHANICAL 2023 FLORIDA BUILDING CODE, 8th EDITION, PLUMBING

2023 FLORIDA BUILDING CODE, 8th EDITION, FUEL GAS

2023 FLORIDA BUILDING CODE, 8th EDITION, ACCESSIBILITY CODE 2023 FLORIDA BUILDING CODE, 8th EDITION, ENERGY CONSERVATION

2020 NATIONAL ELECTRIC CODE

2023 FFPC 8th EDITION 2018 NFPA 101-LIFE SAFETY CODE ASCE 7-22: MIN. DESIGN LOADS ON BUILDINGS AND OTHER

STRUCTURES

ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL

CONCRETE

SPECIFICATIONS FOR MASONRY STRUCTURES

AWC 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD W/ ALL

AWC 2018 SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC W/

APPLICABLE STANDARDS:

AISC STEEL CONSTRUCTION MANUAL (LATEST EDITION) TMS 402/602-16: BUILDING CODE REQUIREMENTS AND

SUPPLEMENTS

COMMENTARY AWS D1.1 STRUCTURAL WELDING CODE FOR STEEL (2020)

ALUMINUM DESIGN MANUAL 2020

4" O.C. 2 x WOOD FRAMING-_PERIMETER OR BLOCKING @ ALL -8" O.C. FIELD NAILING TYP. HORIZONTAL EDGES NAILING TYP. 1. PROVIDE MIN. 7/16" SHEATHING w/ 8d COMMON NAILS @ 4" & 8" SPACING.

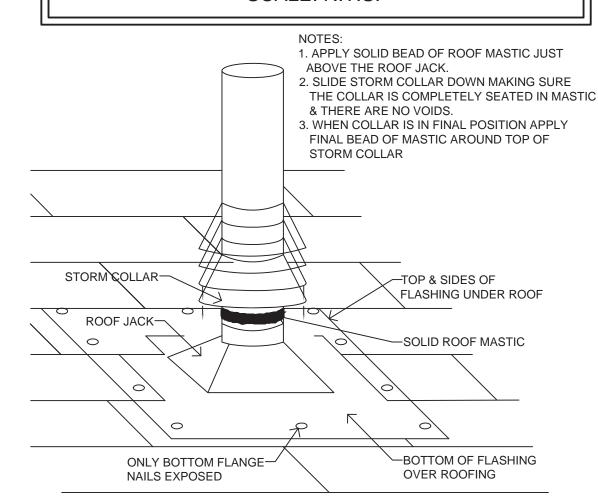
- 2. SHEATHING SHALL BE INSTALLED w/ FACE
- GRAIN PARALLEL TO STUDS. 3. ALL HORIZONTAL JOINTS SHALL BE INSTALLED
- OVER FRAMING OR BLOCKING.
- 4. SINGLE STORY APPLICATION: SHEATHING SHALL BE ATTACHED TO BOTTOM PLATE & TOP MEMBER OF DOUBLE TOP PLATE.

WALL SHEATHING TO BE USED AS SHEAR WALL &

UPLIFT RESISTANCE.

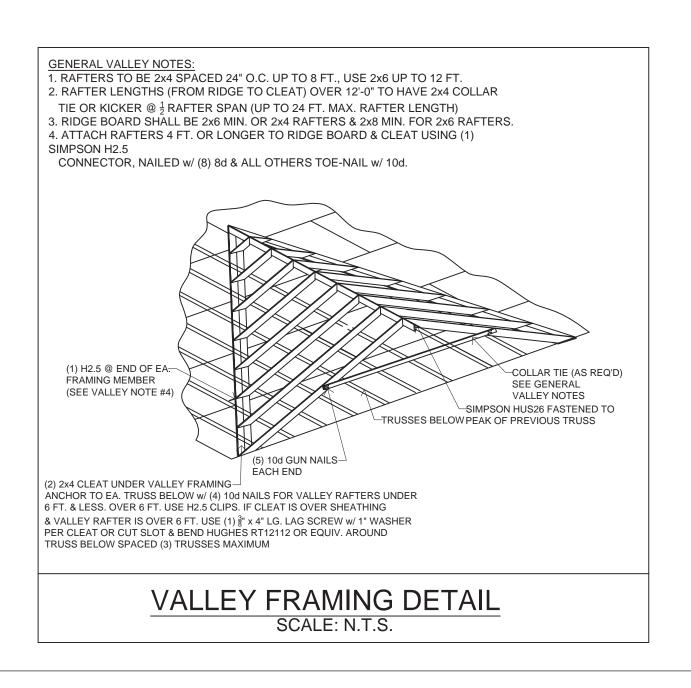
SEE FLOOR PLANS FOR SHEAR WALL SEGMENT ANCHOR REQUIREMENTS.

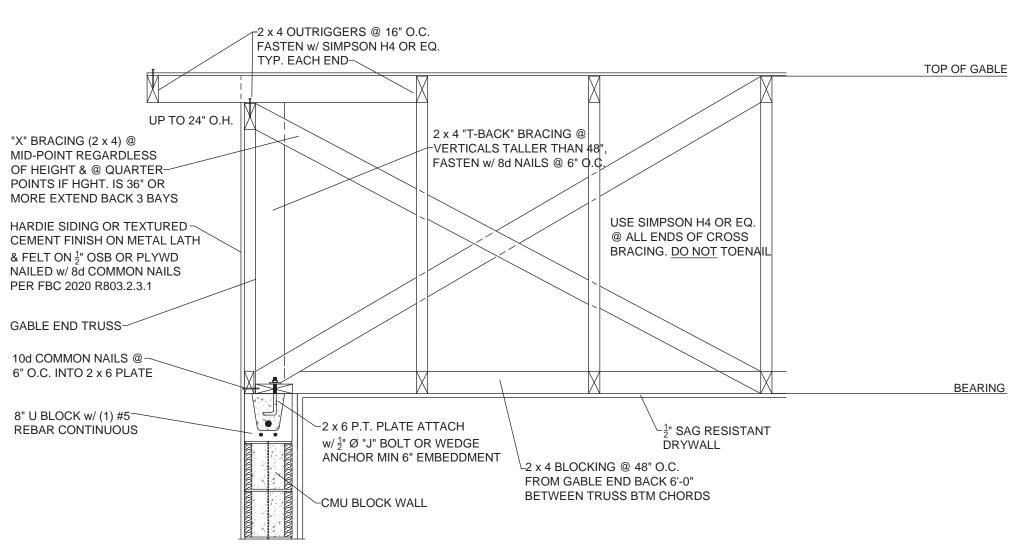
TYPE II WALL SHEATHING NAILING REQUIREMENTS SCALE: N.T.S.



VENT PIPE PENETRATION

SCALE: N.T.S.





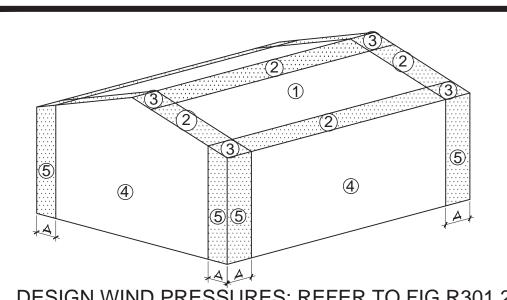
GABLE END CONNECTION

ROOF PLAN NOTES 1. MINIMUM PRE-FABRICATED ROOF TRUSS **DESIGN LOADS TO BE:**

TOP CHORD LIVE LOAD: 20 P.S.F. TOP CHORD DEAD LOAD: 20 P.S.F. BOTTOM CHORD: 10 P.S.F. TOTAL OF 50 P.S.F. TRUSS ENGINEER IS RESPONSIBLE FOR THE DESIGN OF

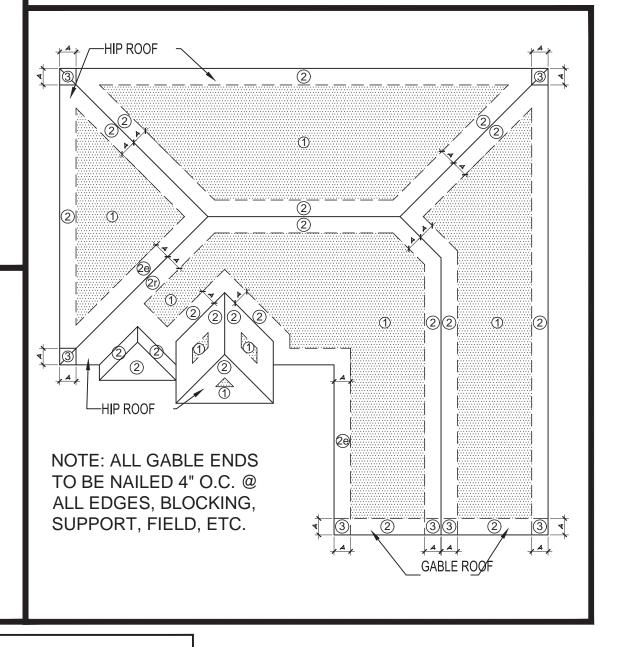
TRUSS SYSTEM, ROOF FRAMING PLAN & MUST PROVIDE ENGINEERING FOR ALL TRUSSES, TRUSS TO TRUSS CONNECTORS. BEAM BUCKETS/HANGER & UPLIFT DESIGN LOADS. ALL OF WHICH SHALL BE CLEARLY & COMPLETELY SPECIFIED ON TRUSS MANUFACTURER'S ENGINEERING DOCUMENTS.

3. ALL FLASHING & EAVE METAL TO BE 26 GAUGE, G-90 GALV. STEEL. FLASHING TO BE INSTALLED AT ALL WALL/ ROOF INTERSECTIONS, GUTTERS (IF APPLICABLE) WHEREVER THERE IS A CHANGE IN ROOF SLOPE DIRECTION EXCEPT HIP & RIDGE JUNCTIONS & ALL AROUND ROOF OPENINGS.



DESIGN WIND PRESSURES: REFER TO FIG R301.2(7) COMPONENT AND CLADDING PRESSURE ZONES (2023 FBC-R)

THE ENGINEER OF RECORD MUST REVIEW AND APPROVE TRUSS PLANS PRIOR TO THE START OF ANY CONSTRUCTION. FOUNDATION, BEARING WALLS, BEAMS, POSTS & TRUSS CONNECTORS ARE SUBJECT TO CHANGE BASED ON FINAL TRUSS PLANS



ATTIC VENTILATION REQUIREMENTS

1/300 RATIO REQUIRED ATTIC VENTILATION 50% OF REQUIRED VENTS TO BE PLACED IN UPPER PORTION OF ATTIC AT LEAST 3 FT. ABOVE EAVE VENTS.

. RIDGE VENT & OFF RIDGE VENTS ARE TO BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS WITH 2x4 BLOCKING BETWEEN TRUSSES AT EACH SIDE OF VENT

2. BLOCKING NAILED w/ (2) 16d NAILS AT EACH END, EACH PIECE TYPICAL 3. OFF RIDGE VENT INSTALLED A MINIMUM OF 12" FROM ROOF PEAK 4. RIDGE BLOCKING IS NOT REQUIRED WHEN A MINIMUM 24/16 SHEETING.

R905.1.1 UNDERLAYMENT

UNDERLAYMENT FOR ROOF SLOPES 2:12 AND GREATER SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED IN THIS CHAPTER, UNDERLAYMENT MATERIALS REQUIRED TO COMPLY WITH ASTM D226, D1970, D4869, D6757, OR ASTM D8257. SHALL BEAR A LABEL INDICATING COMPLIANCE TO THE STANDARD DESIGNATION AND, IF APPLICABLE, TYPE CLASSIFICATION INDICATED. UNDERLAYMENT FOR ROOF SLOPES 2:12 AND GREATER SHALL BE APPLIED AND ATTACHED IN ACCORDANCE WITH SECTION R905.1.1.1 OR R905.1.1.2 AS APPLICABLE

TABLE R803.2.2 MINIMUM ROO	F Sh	HEA ⁻	THIN	IG T	HIC	KNE	SS	
			WIN	D SPE	EED (N	ЛРН)		
RAFTER/TRUSS SPACING 24" O.C	115	120	130	140	150	160	170	180
MIN. SPAN SHEATHING THICKNESS, INCHES (PANEL SPAN RATING) EXPOSURE B	$\frac{\frac{7}{16}}{\frac{24}{16}}$	$\frac{\frac{7}{16}}{\frac{24}{16}}$	$\frac{\frac{7}{16}}{\frac{24}{16}}$	$\frac{\frac{7}{16}}{\frac{24}{16}}$	$\frac{15}{32}$ $(\frac{32}{16})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$
MIN. SPAN SHEATHING THICKNESS, INCHES (PANEL SPAN RATING) EXPOSURE C	$\frac{\frac{7}{16}}{\frac{24}{16}}$	$\frac{\frac{7}{16}}{\frac{24}{16}}$	$\frac{15}{32}$ $(\frac{32}{16})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{23}{32}$ $(\frac{48}{24})$
MIN. SPAN SHEATHING THICKNESS, INCHES (PANEL SPAN RATING) EXPOSURE D	15 32 (32) (16)	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{19}{32}$ $(\frac{40}{20})$	$\frac{23}{32}$ $(\frac{48}{24})$	$\frac{23}{32}$ $(\frac{48}{24})$

WOOD STRUCTURAL PANEL SHEATHING SHALL BE FASTENED TO ROOF FRAMING IN ACCORDANCE WITH TABLE R803.2.3.1.SHEATHING SHALL BE FASTENED WITH ASTM F1667 RSRS-03 (21/2" x 0.131" x 0.281 HEAD DIAMETER) NAILS EXCEPT THAT ASTM F1667 RSRS-01 (23/8" × 0.113") NAILS OR ASTM F1667 RSRS-04 (3" × 0.120" × 0.281 HEAD DIAMETER) NAILS SHALL BE PERMITTED WHERE SHEATHING THICKNESS IS 15/32 INCHES AND LESS. RSRS-01, RSRS-03 AND RSRS-04 ARE RING SHANK NAILS MEETING THE SPECIFICATIONS IN ASTM F1667.

TAB	LE R	1803.	2.3.1	ROC	OF SI	HEAT	ΓΗΙΝ	G AT	TAC	HME	NT ^{a,t})				
							WIN	ND SPE	EED (M	IPH)						
RAFTER/TRUSS SPACING 24" O.C	1	15	1:	20	1:	30	14	40	15	50	10	60	1	70	18	80
	Е	F	Е	F	Е	F	Е	F	Е	F	Е	F	Е	F	Е	F
				'				EXPOS	SURE E	3			•	•	•	
RAFTER/TRUSS SG = 0.42	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4	4
RAFTER/TRUSS SG = 0.49	6	12	6	12	6	6	6	6	6	6	6	6	6	6	6	6
		1		•		!		EXPOS	SURE		!	1	1	•	1	4
RAFTER/TRUSS SG = 0.42	6	6	6	6	6	6	4	4	4	4	4	4	3	3	3	3
RAFTER/TRUSS SG = 0.49	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4
			•		•	•	ı	EXPOS	SURE [)	•					
RAFTER/TRUSS SG = 0.42	6	6	6	6	4	4	4	4	4	4	3	3	3	3	3	3
RAFTER/TRUSS SG = 0.49	6	6	6	6	6	6	6	6	4	4	4	4	4	4	4	

E = NAIL SPACING ALONG PANEL EDGES (INCHES)

F = NAIL SPACING ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD (INCHES)

A.FOR SHEATHING LOCATED A MINIMUM OF 4 FEET FROM THE PERIMETER EDGE OF THE ROOF, INCLUDING 4 FEET ON EACH SIDE OF RIDGES AND HIPS. NAIL SPACING IS PERMITTED TO BE 6 INCHES ON CENTER ALONG PANEL EDGES AND 6 INCHES ON CENTER ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD.

B.WHERE RAFTER/TRUSS SPACING IS LESS THAN 24 INCHES ON CENTER OR FOR SPECIFIC GRAVITIES (SG) OTHER THAN THOSE SHOWN, ROOF SHEATHING FASTENING IS PERMITTED TO BE IN ACCORDANCE WITH THE AWC WFCM OR THE AWC NDS PROVIDED NAIL SPACING DOES NOT EXCEED 6 INCHES ON CENTER ALONG PANEL EDGES AND 12 INCHES ON CENTER ALONG INTERMEDIATE SUPPORTS IN THE PANEL FIELD.

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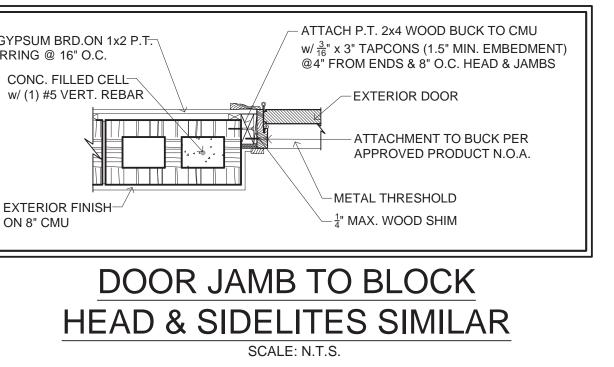
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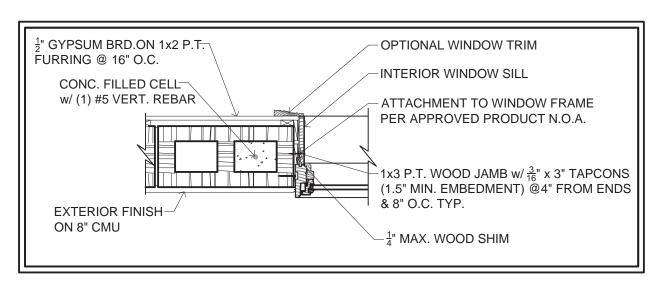
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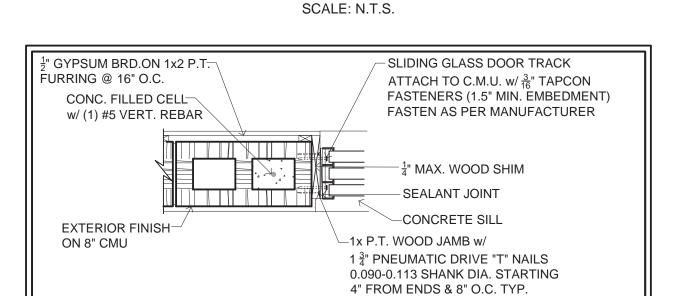
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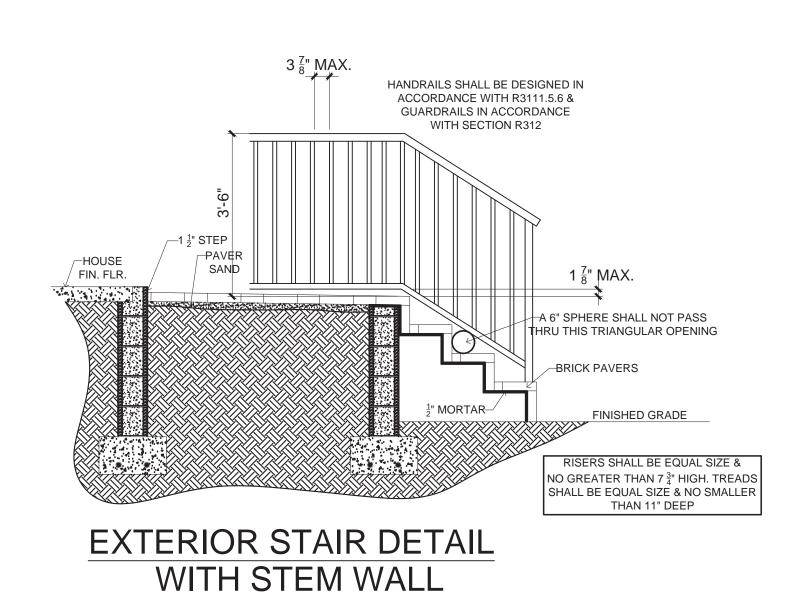




WINDOW JAMB TO BLOCK **HEAD SIMILAR**

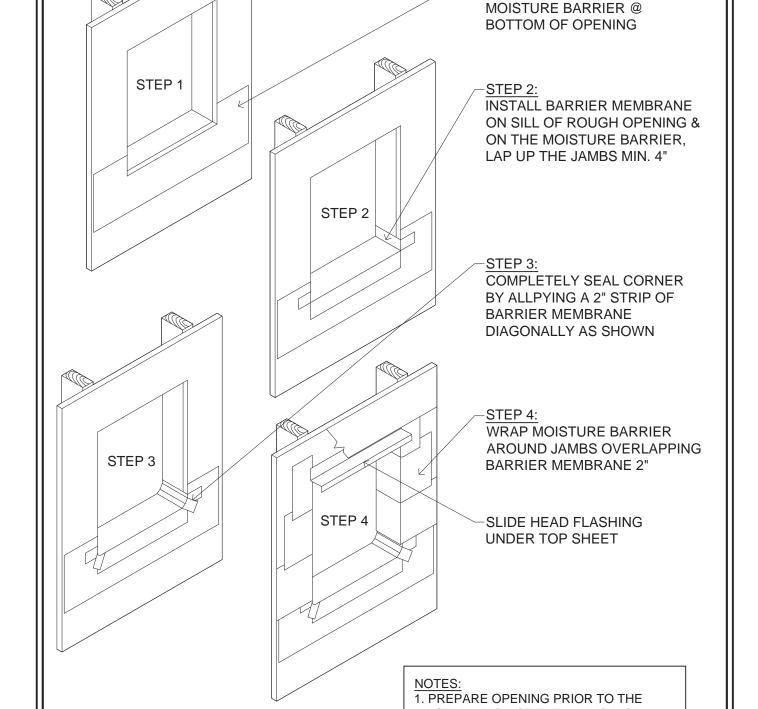


SLD GLASS DOOR JAMB TO **BLOCK HEAD SIMILAR**



SCALE: N.T.S.

½" GYPSUM BRD.ON 1x2 P.T. FURRING @ 16" O.C. ON 8" CMU



INSTALL SHEET OF

INSTALLATION OF THE WINDOW OR

MECHANICAL EQUIPMENT. COORDINATE

2. PROVIDE MOISTURE BARRIER & OTHER

ASSOCIATED TRIM & ACCESSORIES.

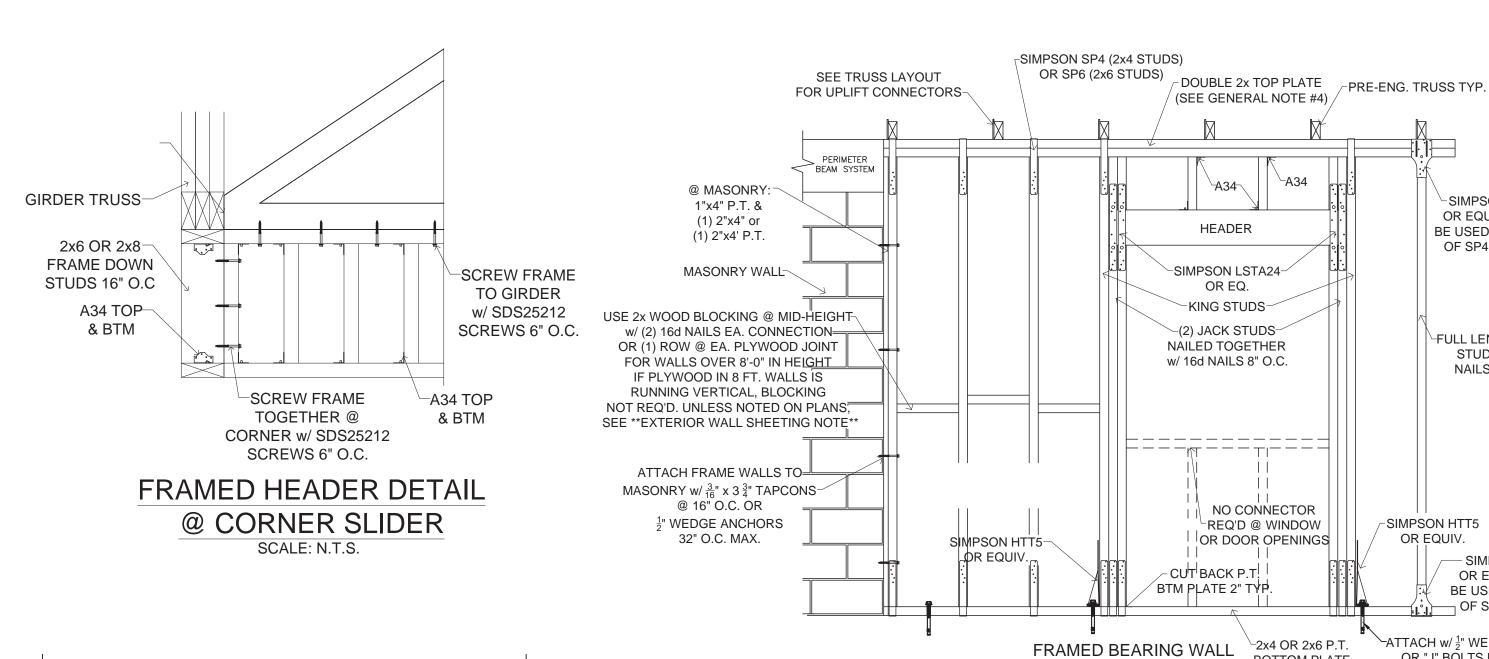
3. PROVIDE FLASHING @ SILL TO DRAIN

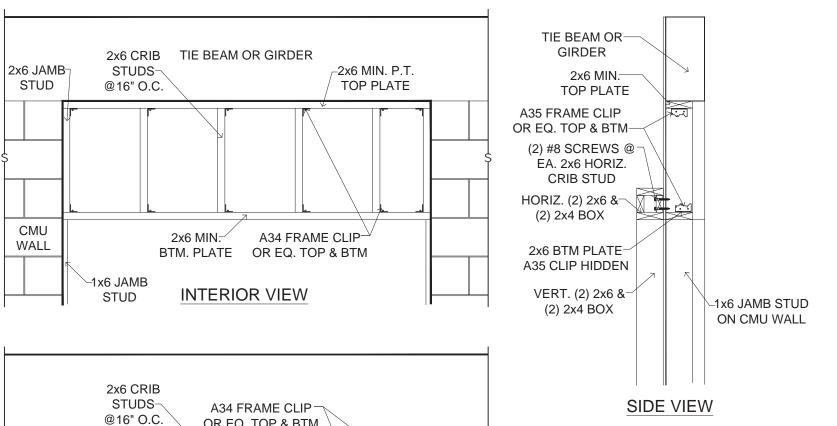
WATER TO THE EXTERIOR.

INSTALLATION w/ OTHER SUBTRADES

ROUGH OPENING PREPARATION

HEADER IS SUPPORTED BY A SUITABLE FRAMING ANCHOR.				4' 6' 9' 12' 15'						
IF GO BOLT OR PRO BOI OR SIMPSON SYSTEM IS INDICATED IN THIS DETA	CONNECTORS		l		HEADER STUD END OF HEAD					
UNSUPPORTEI WALL HEIGHT	D	STUD SPACING	1 1 2 3 3 3 3 NUMBER OF FULL LENGTH STUIL AT EACH END OF HEADER							
		12 INCHES	2	2	3	3	3	3		
10' OR LESS		16 INCHES	2	2	3	3	3	3		
		24 INCHES	1	2	2	2	2	2		
		12 INCHES	2	2	3	4	5	5		
GREATER THAN 10'		16 INCHES	2	2	3	3	4	4		
		24 INCHES	1	2	2	2	3	3		
A 16 A 18 2x4 WALL SIMPSON SP4 B,C 6 SIMPSON SPH4 B,C 10 B,C 12 2x6 WALL STRAP FASTENERS	760 1065 1215 1370 735 1240 1360 JPLIFT 735		HEADE	-II ER		C A	CONN	PICAL ECTO FULL ENGTI TUDS		
SIMPSON SPH6 B,C 10	ITH	<u> </u>		NO (CTOR F	REQUIR	ED		





@16" O.C. OR EQ. TOP & BTM NOTE: IF CRIB STUDS ARE NOT REQ'D, **BOX 2x4 ADJACENT TO WALL CONNECTS** DIRECTLY TO THE BEAM w/ $\frac{3}{16}$ " x 3 $\frac{1}{2}$ " LG. TAPCONS 6" FROM ENDS @ 16" O.C. WALL

1x6 JAMB

STUD

NOTE: HORIZ. BOX MAY BE CONSTRUCTED w/ 2x8 IN LIEU OF THE 2x6 MEMBERS IF THE POCKET FOR THE SLIDING GLASS DOOR REQUIRES MORE DEPTH. VERIFY THIS PRIOR TO INSTALLATION.

EXTERIOR VIEW SLIDING GLASS DOOR POCKET DETAIL SCALE: N.T.S.

HORIZ. (2) 2x6 &-

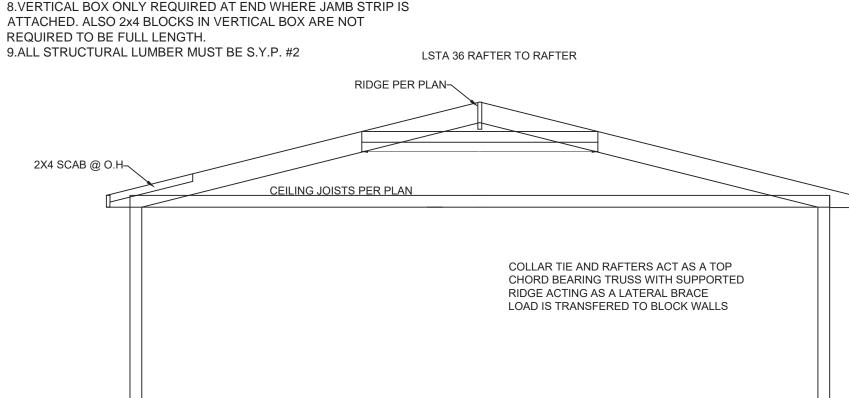
(2) 2x4 BOX

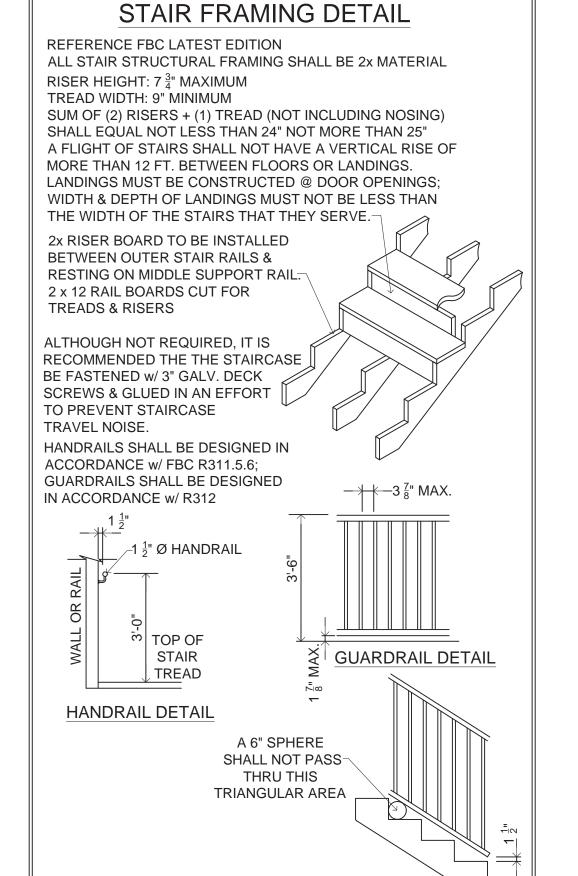
-VERT. (2) 2x6 &

(2) 2x4 BOX

NOTES:

1. ATTACH 2x6 TOP PLATE TO TIE BEAM OR GIRDER w/ $\frac{3}{16}$ " X 3 $\frac{1}{2}$ " MIN. TAPCONS STARTING 6" FROM ENDS @ 16" O.C. 2. ATTACH 2x6 BOTTOM PLATE TO CMU WALL EA. END w/ A35 CLIP w/ (4) 10d NAILS IN TOP PLATE & (3) 3 TAPCONS IN CMU WALL. (CLIP MAY BE ON TOP OR BOTTOM OF PLATE). 3.ATTACH 2x6 JAMB STUDS TO CMU WALL $w/\frac{3}{16}$ " x 3 $\frac{1}{2}$ " LG. TAPCONS STARTING 8" FROM TOP @ 16" O.C. 4.ATTACH 1x6 JAMB PLATES TO CMU w/ $\frac{3}{16}$ " x 2 $\frac{3}{4}$ " LG. TAPCONS STARTING 8" FROM TOP 16" O.C. 5.ATTACH 2x6 CRIB STUDS TO TOP & BOTTOM PLATES w/ A34 CLIPS w/ (2) 10d NAILS IN CRIB STUD & (2) 10d NAILS IN PLATE. 6.ATTACH 2x4 SIDE PLATE OF BOX ADJACENT TO FACE OF WALL TO CRIB STUDS w/ (2) #8 x 4" LG. WOOD SCREWS PER STUD. 7.ATTACH 2x6PLATES TO 2x4 PLATES IN BOX w/ 16d NAILS STARTING 6" FROM ENDS 16" O.C. 8. VERTICAL BOX ONLY REQUIRED AT END WHERE JAMB STRIP IS





SIMPSON SP2

OR EQUIV. MAY

BE USED INSTEAD

OF SP4 OR SP6

-FULL LENGTH WALL

STUDS w/ 16d

NAILS 16" O.C.

- SIMPSON SP1

OR EQUIV. MAY

BE USED INSTEAD

→ OF SP4 OR SP6

`ATTACH w/ ½" WEDGE ANCHOR

OR "J" BOLTS EMBEDDED

SIMPSON HTT5

ALL OTHER SPANS

BOTTOM PLATE

(INTERIOR/EXTERIOR)

#4 SIMPSON SP4 @ TOP OF ALL FULL LENGTH STUDS @ ALL DOOR/ WINDOW OPENINGS

#3 SIMPSON SP4 @ TOP & BOTTOM OF FULL LENGTH STUDS @ 32" O.C.

OPENING WIDTH

FULL LENGTH/ JACK STUD SCHEDULE

1'-0" TO 4'-0" (1) JACK STUD EACH END, (2) FULL LENGTH STUD EACH END

9'-1" TO 12'-0" (3) JACK STUDS EACH END, (3) FULL LENGTH STUDS EACH END

Frame 2x4-Bearing Wall-Header Schedule

NOTE SCHEDULE

#1 1/2" X 5" TITEN HD ANCHOR BOLT W/ 2" WASHER @ 6" FROM ALL CORNERS & OPENINGS, & 32" O.C. MAX

#2 SIMPSON SP4 @ BOTTOM OF ALL FULL LENGTH & JACK STUDS @ ALL DOOR/ WINDOW OPENINGS

#5 CONNECT ALL JACK STUDS TO HEADER W/ SIMPSON LSTA12 @ ALL DOOR/ WINDOW OPENINGS

#6 CONNECT DBL TOP PLATE TO HEADER W/ SIMPSON SP4 @ 16" FROM EACH END, & 32" O.C. MAX.

(1) JACK STUD EACH END, (2) FULL LENGTH STUDS EACH END

6'-1" TO 9'-0" (2) JACK STUDS EACH END, (3) FULL LENGTH STUDS EACH END SHALL BE SPECIFIED

TYP. ROOF FRAMING SECTION

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PROJECT NO: SCALE: PER PLAN

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SHEET TITLE:

SHEET NUMBER: S-2

DETAILS



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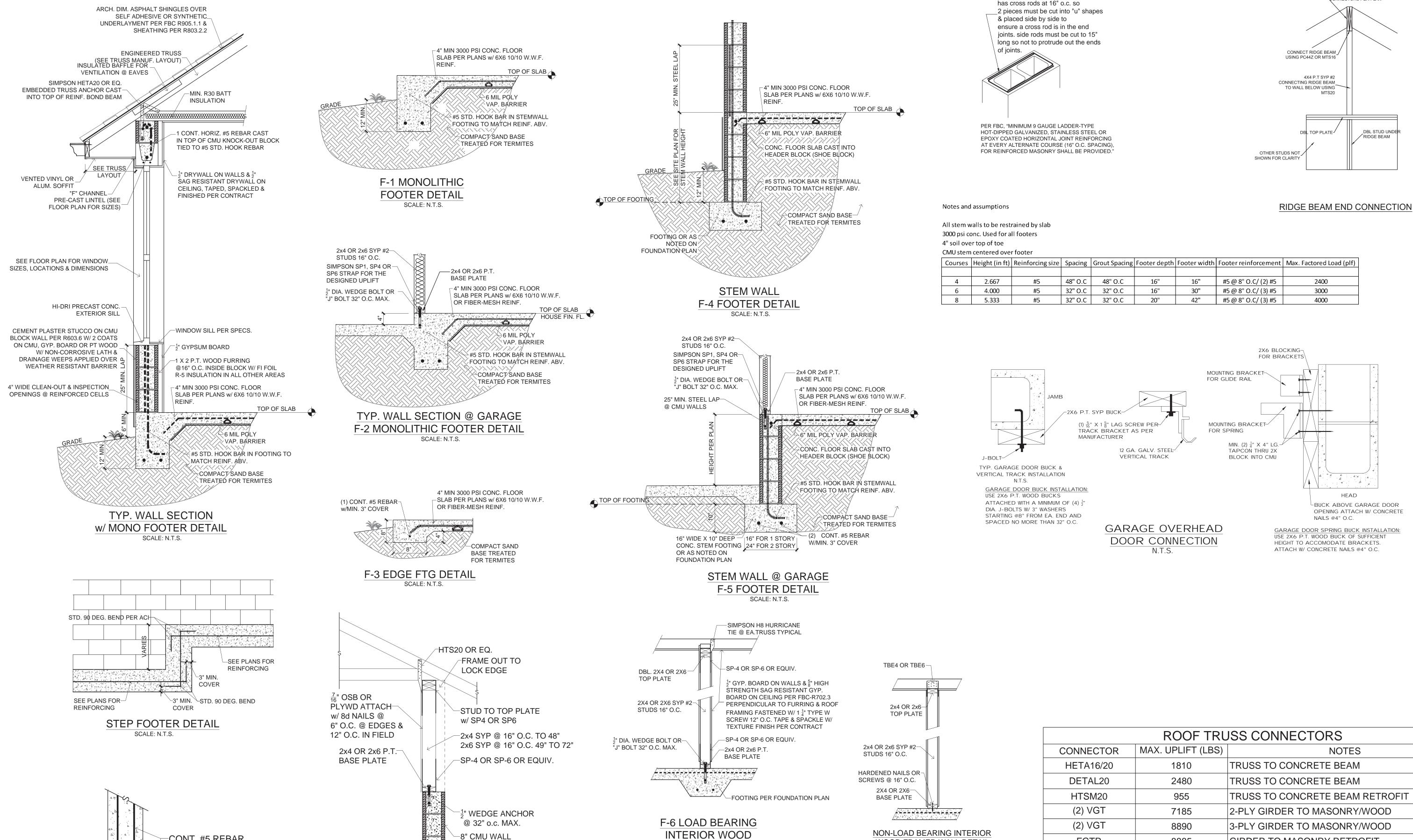
RIDGE BEAM/RAFTERS AND

CONNECTORS PER PLAN

9 gage ladder mesh reinforcement

WOOD FRAMED WALL DETAIL

SCALE: N.T.S.



FRAMED WALL DETAIL

SCALE: N.T.S.

NOTES TRUSS TO CONCRETE BEAM TRUSS TO CONCRETE BEAM TRUSS TO CONCRETE BEAM RETROFIT 2-PLY GIRDER TO MASONRY/WOOD 3-PLY GIRDER TO MASONRY/WOOD 8885 **FGTR** GIRDER TO MASONRY RETROFIT 10345 HGT-2 2-PLY GIRDER TO WOOD COLUMN HGT-3 3-PLY GIRDER TO WOOD COLUMN 10440 LGUM26-2-SDS 2 PLY GIRDER TO MASONRY FACE MOUNTED 1430 H2.5A 595 TRUSS TO DBL TOP PLATE 1310 HTS 16/20 TRUSS TO WOOD BEAM/HEADER 1040 H10A TRUSS TO DBL TOP PLATE HUS26 1320 TRUSS TO LEDGERBOARD FACE MOUNTED (2) HTSM20 1850 USE IN LIEU OF MISSED HETA20

SHEET NUMBER:

DRAWN BY: CG

REVIEWED BY:

PROJECT NO:

SHEET TITLE:

SCALE: PER PLAN

S-3

STRUCTURAL

DETAILS

KNEEWALL @ ENTRY

SCALE: N.T.S.

-CONT. #5 REBAR

25" MIN. LAP

FOOTING STEEL LAP

SCALE: N.T.S.