

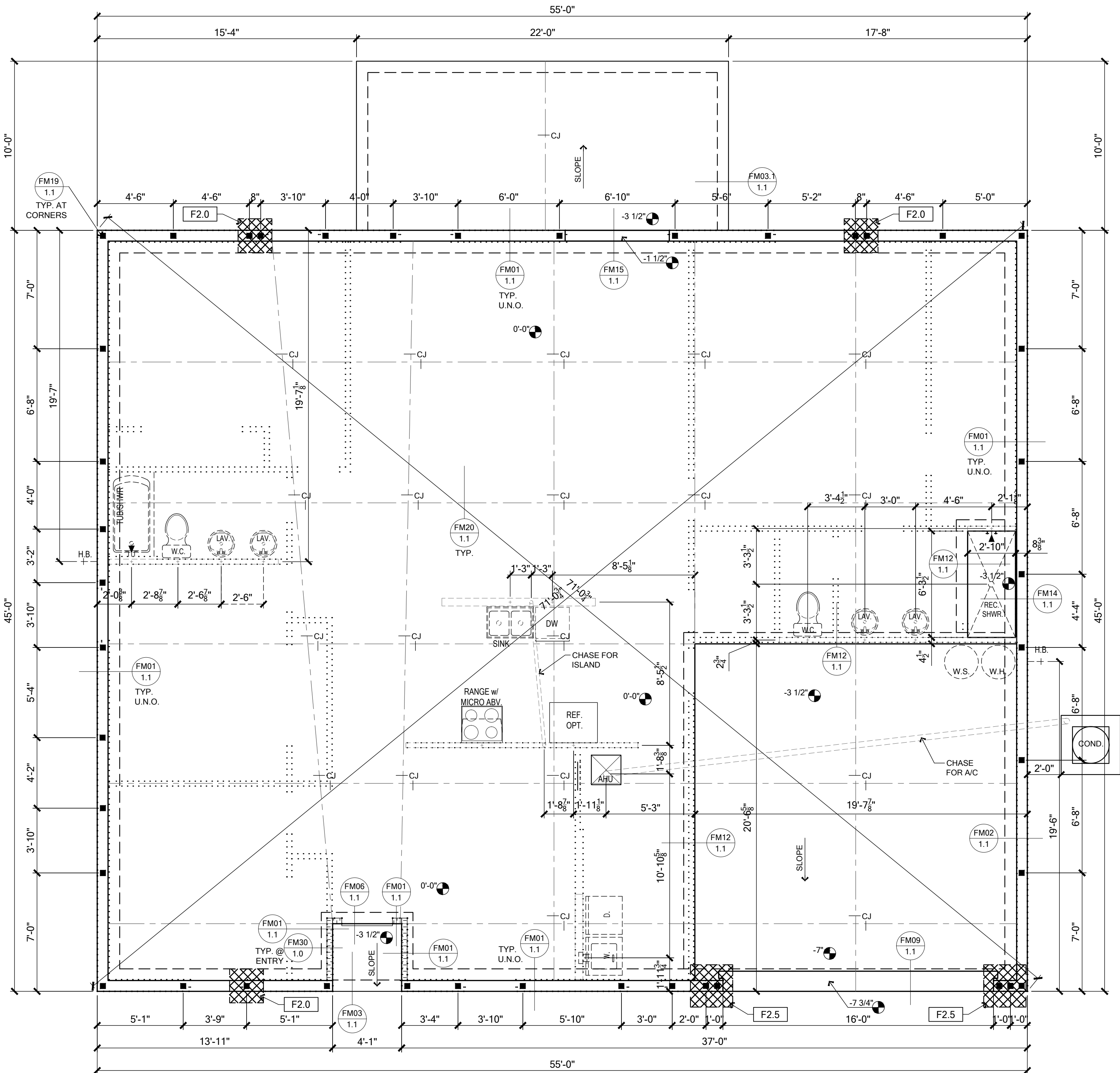
A circular blue ink stamp. The outer ring contains the text "Columbia County Building Department" at the top and "State of Florida" at the bottom. In the center, it reads "Plans Reviewed for Code Compliance".

The information appearing on and inside this Seal Must Not be used, in whole or in part, for any purpose other than to identify the licensee named on the seal as the sole and authorized signatory of the drawings, plans, specifications, reports, calculations, or other documents or instruments prepared by the licensee. The licensee is responsible for the accuracy and completeness of the information provided on the seal. The licensee is also responsible for the accuracy and completeness of the information provided on the seal. The licensee is also responsible for the accuracy and completeness of the information provided on the seal.

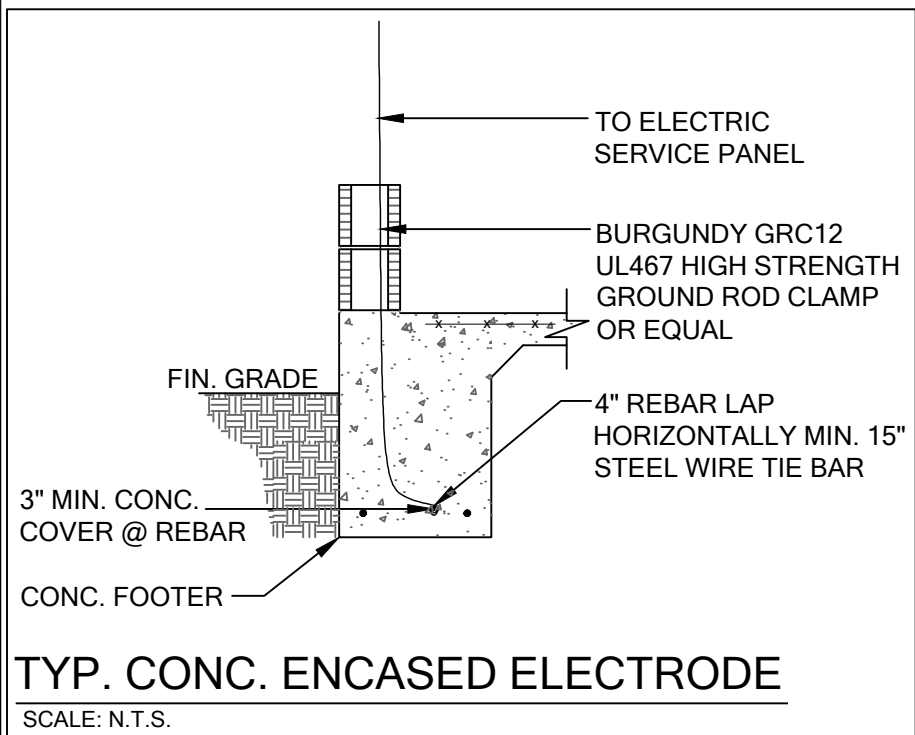
Signing Date: 07/02/2024

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

[illegible]



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



FOUNDATION SCHEDULE				
MARK	SIZE	DEPTH	REINFORCING	GRAVITY CAP. [lbs]
F2.0	2'-0" x 2'-0"	1'-0"	3 #5 E.W. BOT.	7200
F2.5	2'-6" x 2'-6"	1'-0"	3 #5 E.W. BOT.	11000
F3.0	3'-0" x 3'-0"	1'-0"	4 #5 E.W. BOT.	15600
F3.5	3'-6" x 3'-6"	1'-0"	4 #5 E.W. BOT.	21500
F4.0	4'-0" x 4'-0"	1'-0"	5 #5 E.W. BOT.	28000

FOUNDATION DEPTH NOTE:

- INTERIOR PAD DEPTHS AS LISTED IN THE SCHEDULE ARE THE TOTAL DEPTH AND MEASURED FROM THE TOP OF THE SLAB.
- EXTERIOR PAD DEPTHS AS LISTED IN THE SCHEDULE ARE TOTAL DEPTH WITH THE BOTTOM OF THE FOOTING TO MATCH THE BOTTOM OF THE CONTINUOUS MONOLITHIC POOR WHICH RUNS THROUGH IT.

GENERAL FOUNDATION NOTES				
1	PROVIDE MIN. 6 MIL. APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MIN. 6" AND SEALED.			
2	3-1/2" 2500 PSI CONC. SLAB W/ 6X6 10/10 WWF, OR FIBERMESH /FIBERMIX ADDED TO THE CONCRETE. IN ACCORDANCE W/ MANUF'S INSTRUCTIONS AND NER-284 FOR FIBERMESH OR NER-414 FOR FIBERMIX, OVER 6 MIL VISQUEEN VAPOR BARRIER			
3	INDICATES FILLED CELL W/3000 PSI CONC. FROM FOUNDATION TO BEAM W/ (1) #5 REBAR, GRADE 60 U.N.O. TYPICAL ABOVE SLAB. HOOKED FTG. DOWELS 5" EMBEDMENT W/ 25" EXTENSION ABOVE SLAB. FILLED CELLS TO BE PLACED @ EACH CORNER, END OF INDICATED BRG. WALLS, EACH SIDE OF ALL OPENINGS, UNDER GIRDER TRUSSES (FLOOR AND ROOF) AND SEE PLAN FOR SPACING.			
4	CONSULT W/ MANUFACTURER SPECIFICATIONS PRIOR TO POURING OR RECESSING DOOR SILLS OR SLIDING GLASS DOOR SILLS.			
5	EXTERIOR SLABS SHALL SLOPE MIN. 2% OR 1/4" PER FOOT AWAY FROM HOUSE U.N.O. ON PLAN.			
6	CONTROL JOINTS (IF SHOWN) ARE NOT REQUIRED BY CODE BUT ARE SUGGESTED (ESPECIALLY WHEN USING FIBER REINFORCED CONCRETE OR IN EXTERIOR CONDITIONS). CONTROL JOINTS TO BE 1/8" SAW CUT A DEPTH OF 1/4 OF THE THICKNESS OF THE SLAB. FILL CUT W/ APPROVED JOINT MATERIAL OR USE ALTERNATE APPROVED METHOD.			
7	NO WOOD STAKES PERMITTED IN FOUNDATION.			
8	PENDING SITE CONDITIONS, FOUNDATION MAY HAVE TO BE STEPPED DOWN. SEE FM18 ON SHEET 1.1 FOR ADDITIONAL INFORMATION. G.C. TO DETERMINE STEP LOCATIONS IF REQUIRED.			
9	SEE TYPICAL DETAIL ON LINTEL PLAN FOR REQUIRED STEEL BENDS AND LAP SPLICE.			
10	ANY EQUIPMENT AND/OR APPLIANCES HAVING AN IGNITION SOURCE SHALL BE ELEVATED A MIN OF 18". CONTRACTOR TO PROVIDE SUCH PLATFORM W/ EITHER MASONRY OR WOOD CONSTRUCTION.			
11	ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2000 PSF (SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS). IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY, THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN. SOIL TO BE FREE OF ORGANIC MATERIAL AND COHESIVE SOILS. COMPACTED IN 12" LIFTS TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM - 1557 (MODIFIED PROCTOR). THE FOUNDATION SIZES INDICATED ON THE FOUNDATION PLAN HAS BEEN DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY OF 2000 PSF.			

FOUNDATION LEGEND				
[Symbol]	INDICATES SINGLE-STORY WALL FOUNDATION			
[Symbol]	INDICATES TWO-STORY WALL FOUNDATION			
[Symbol]	INDICATES CONCRETE PAD FOUNDATION			
[Symbol]	INDICATES FILLED CELL WITH (GRADE 60) REBAR			

NOTE:

PRIOR TO COMMENCING FOOTER VERIFY WASTE SYSTEM DRAIN LOCATION WITH PLUMBING CONTRACTOR. SEE DETAIL FM23/1.1 FOR FOUNDATION PENETRATIONS.

Community:	Forest Cove	Garage Side:	Right
Plan Name:	Willow	Elev - F	
Lot:	1	Block:	001
Address:	TBD Street A		
	Lake City, FL 32024		
Job No.	9FC00101		
Reference No.	24-04830		
Sheet:			

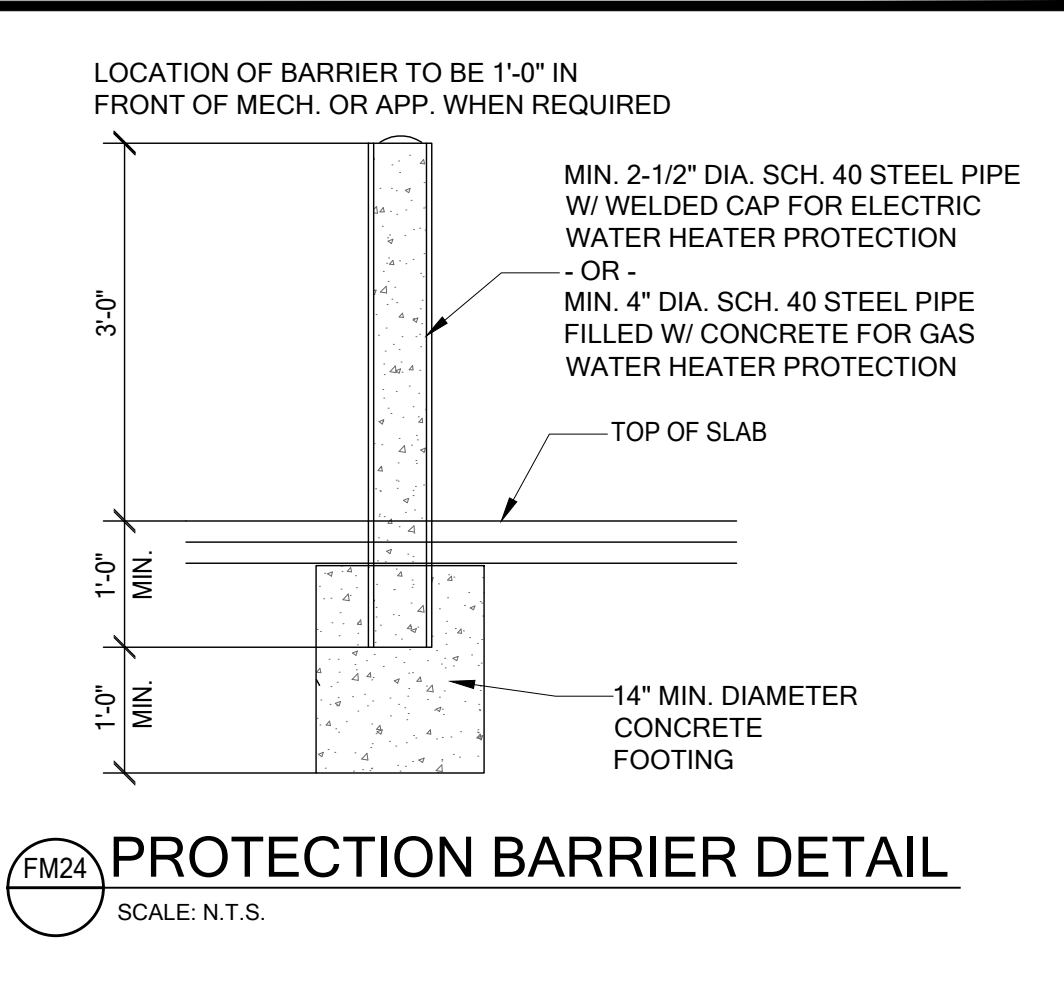
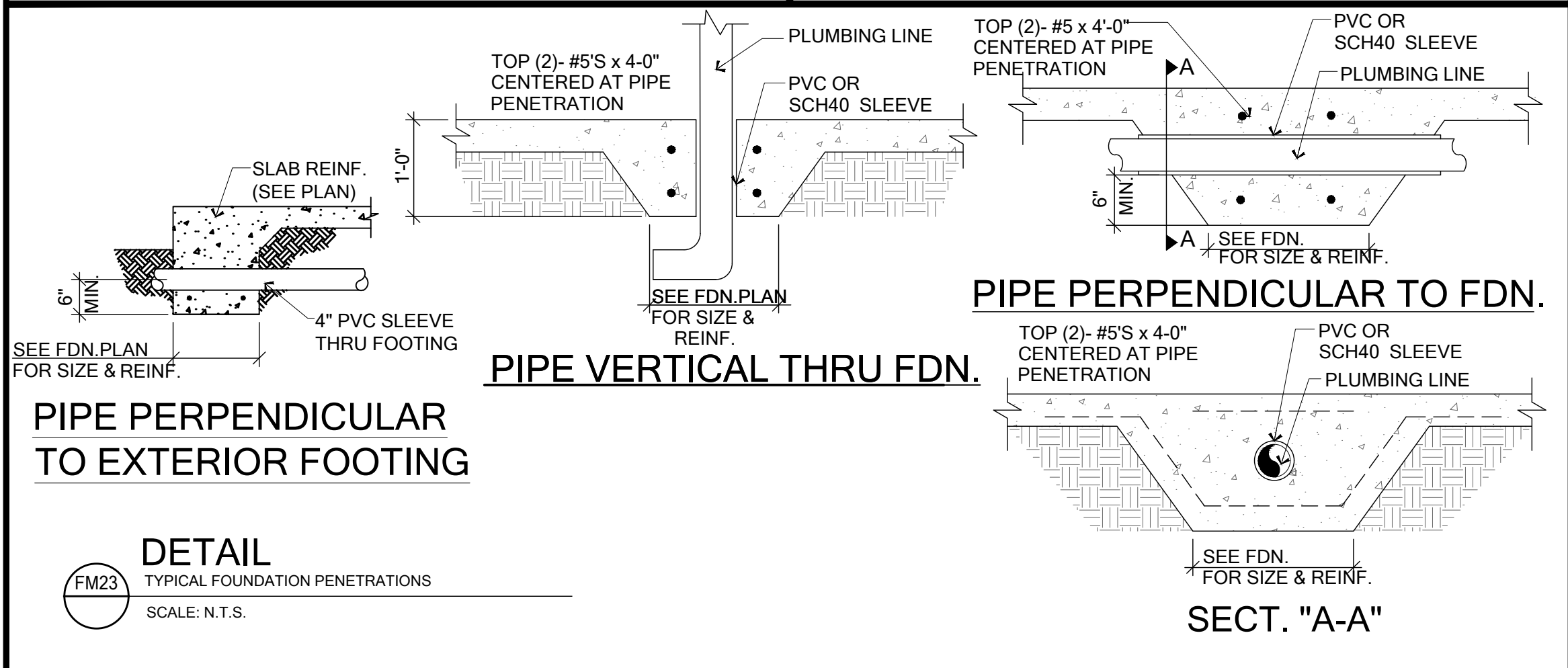
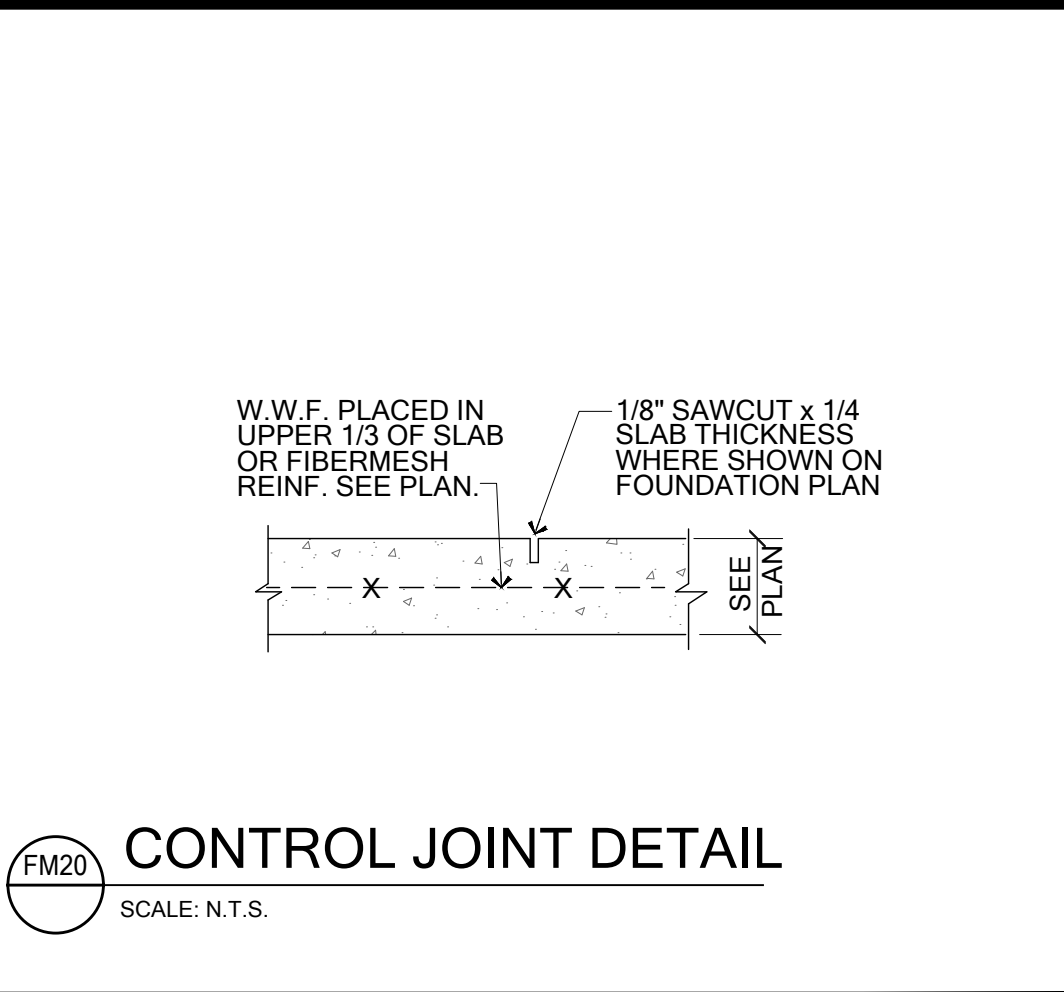
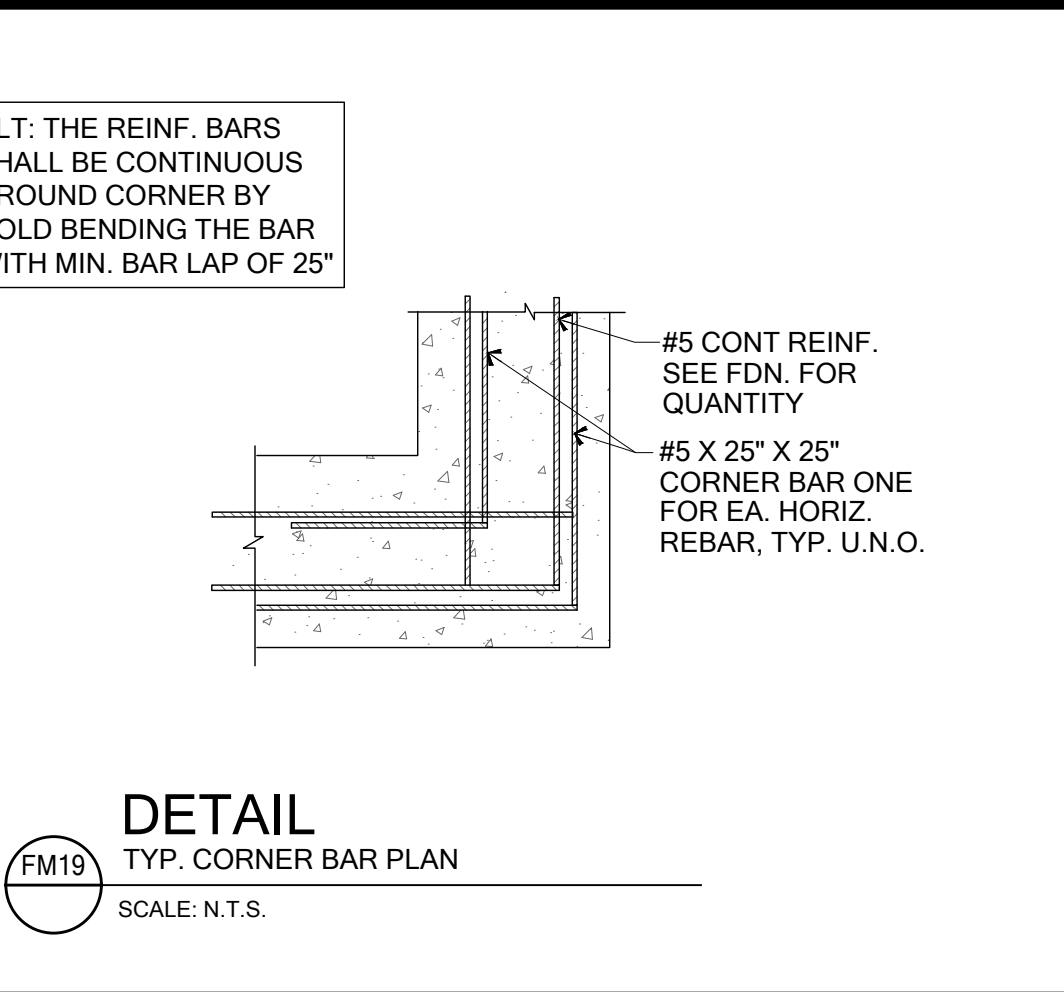
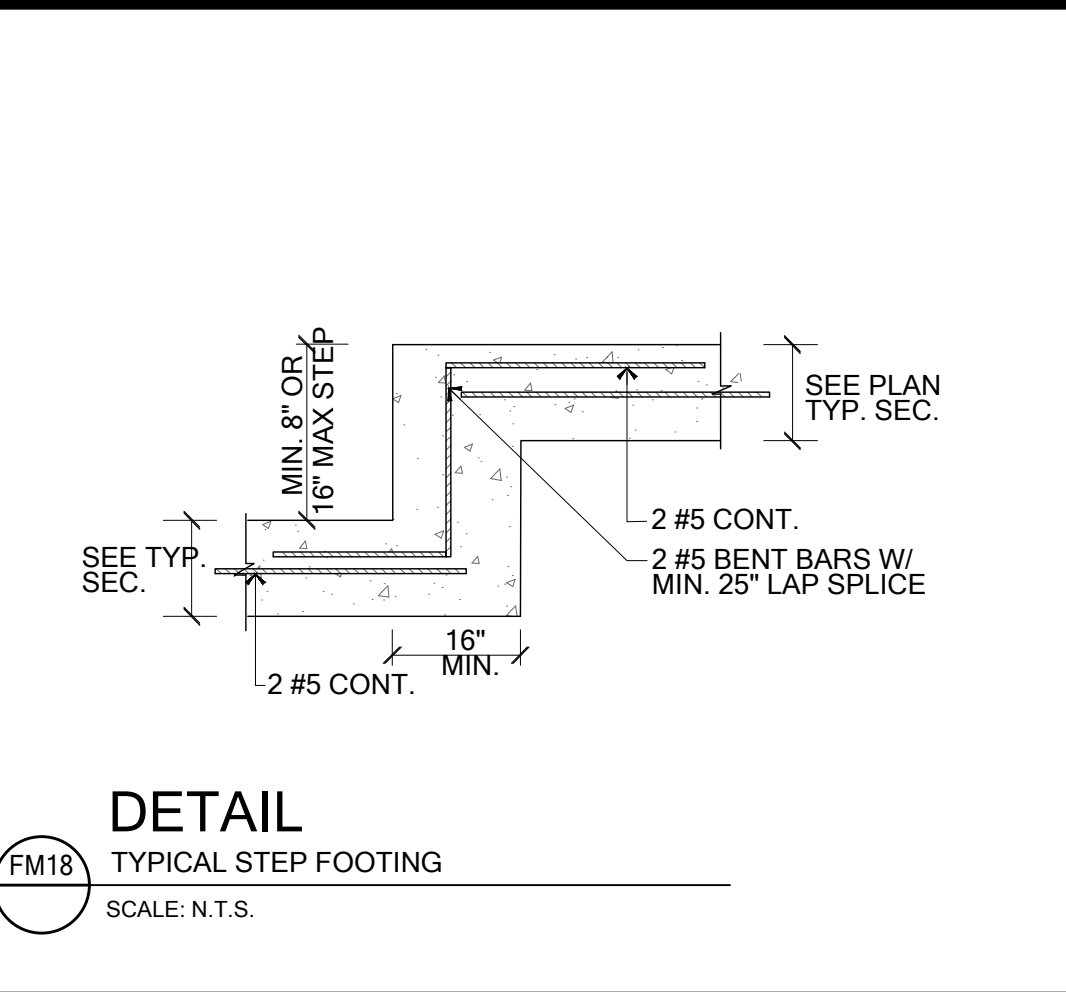
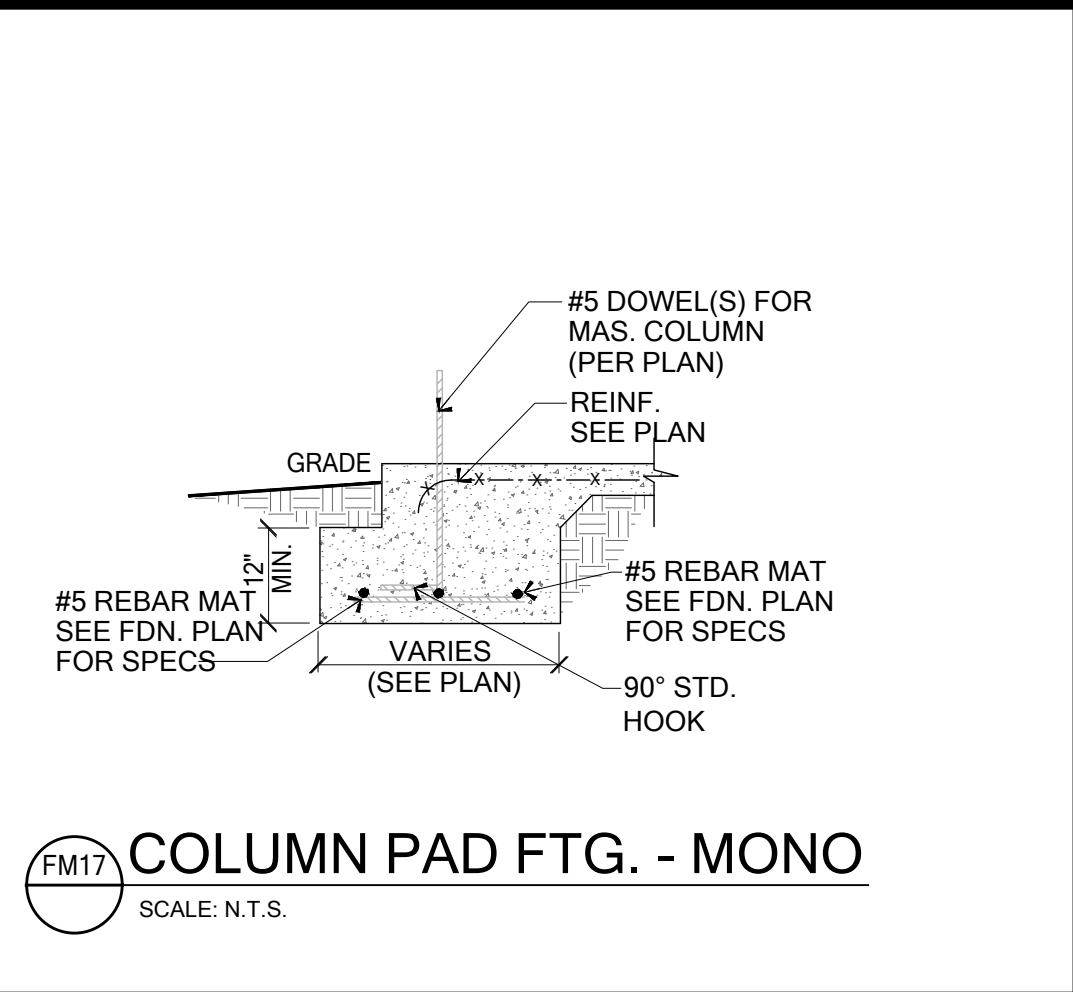
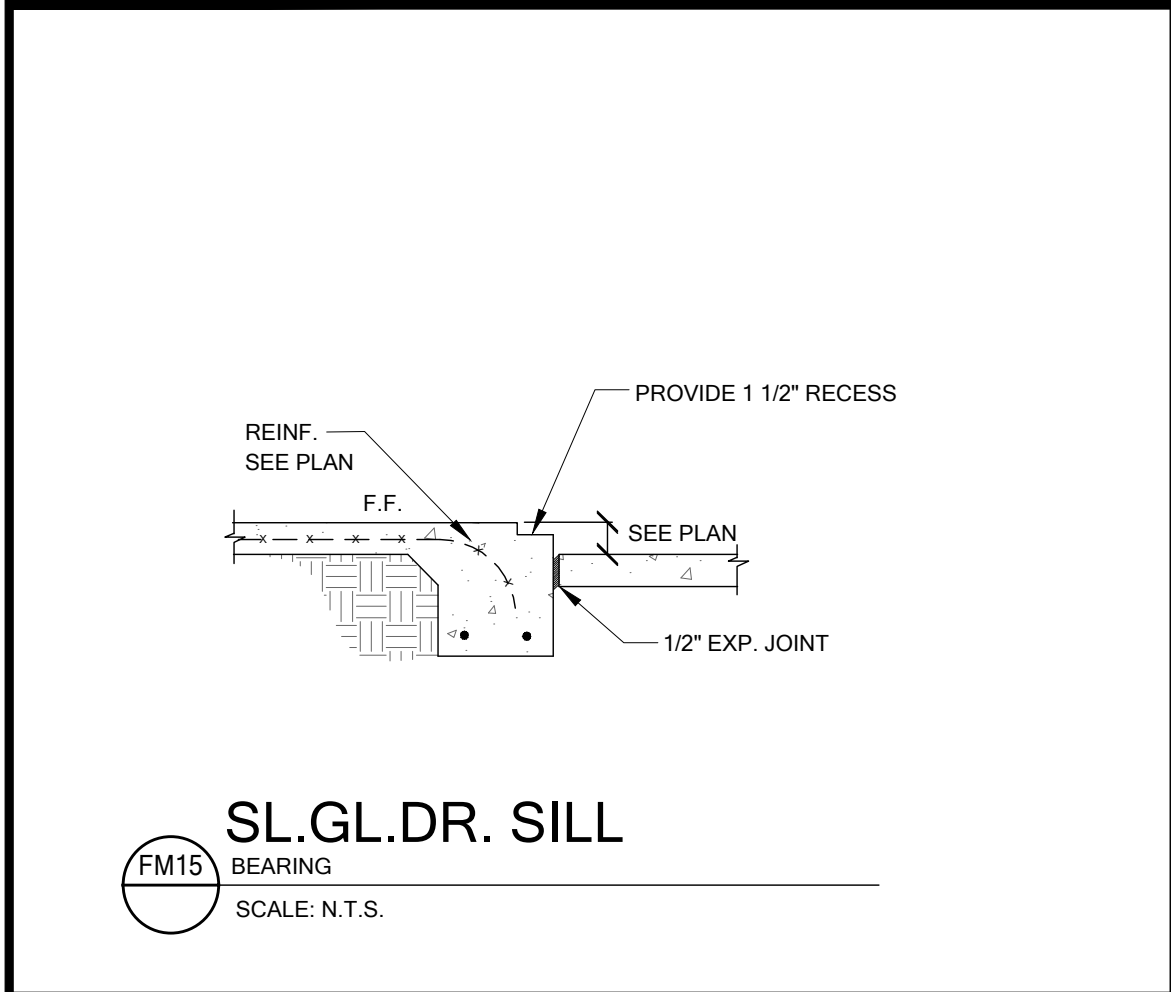
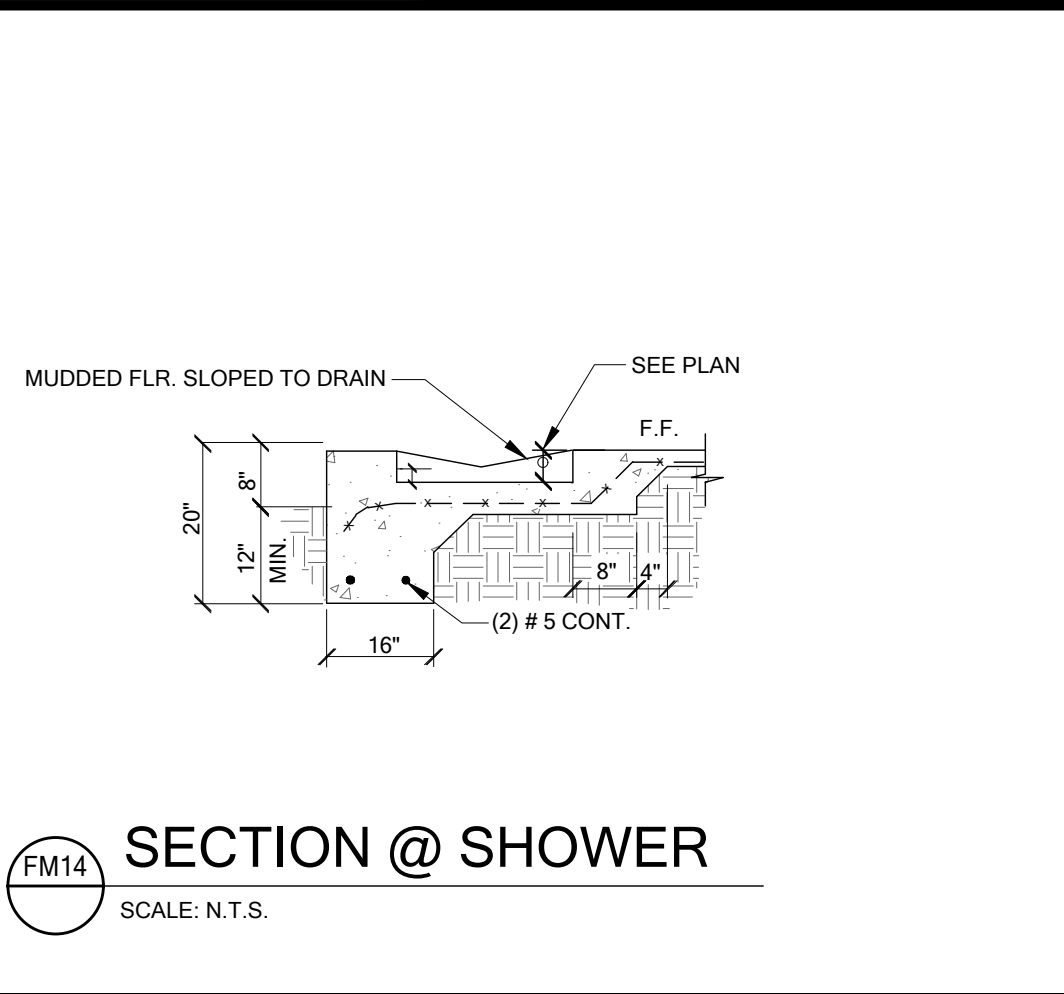
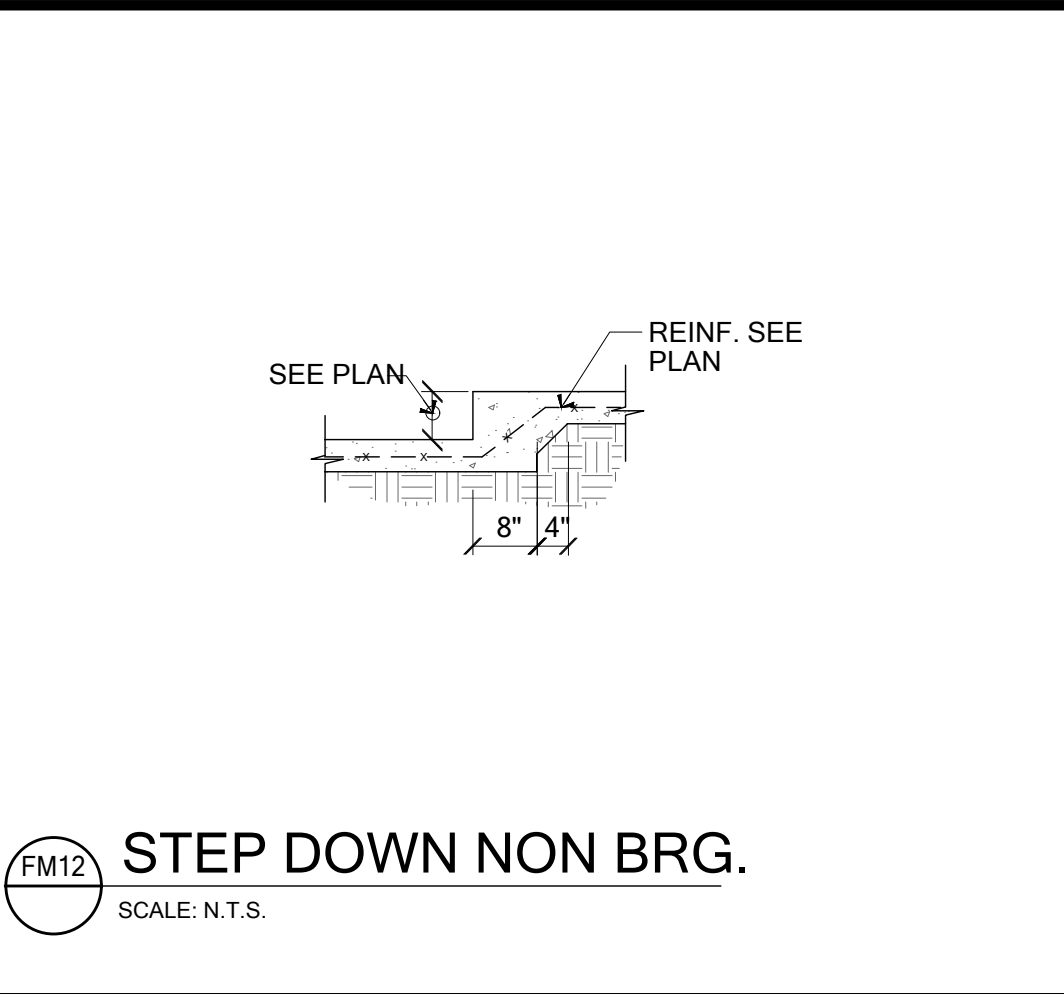
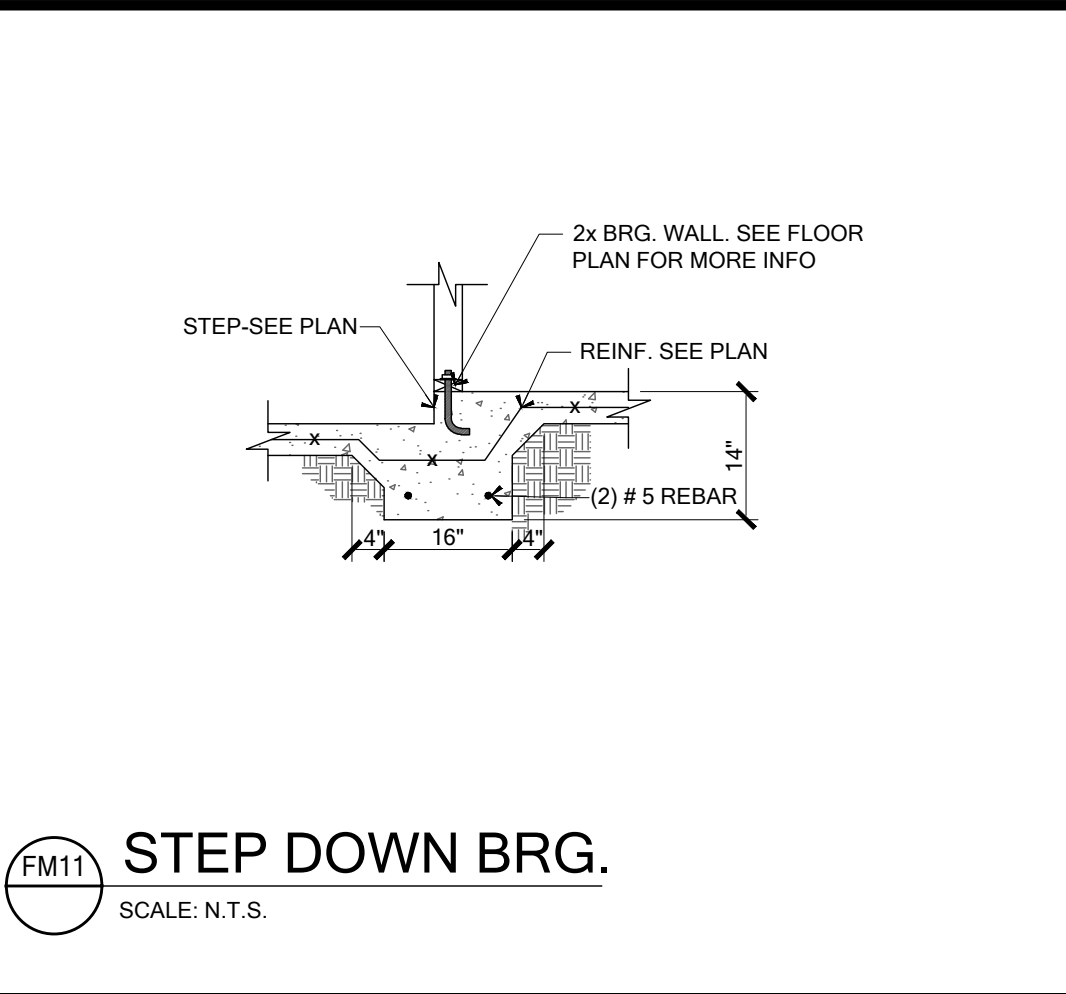
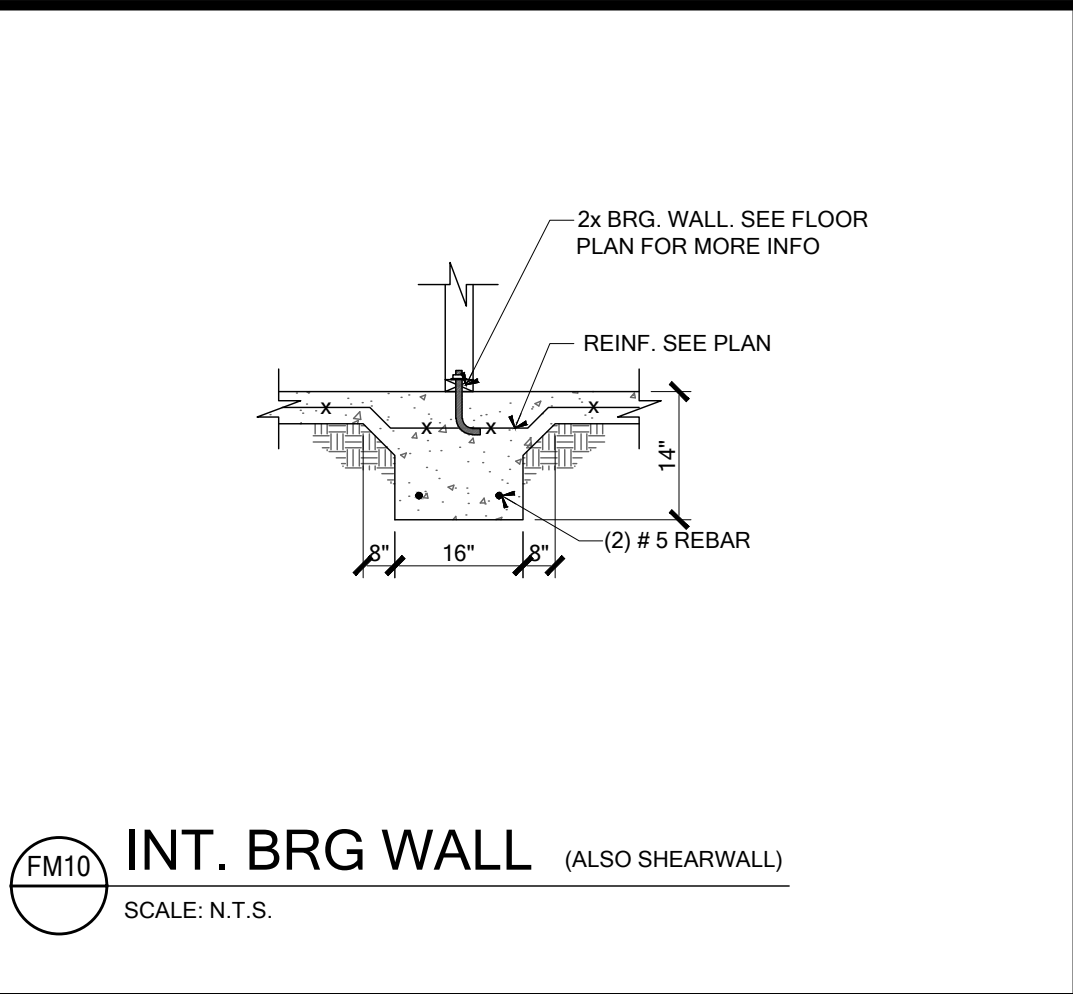
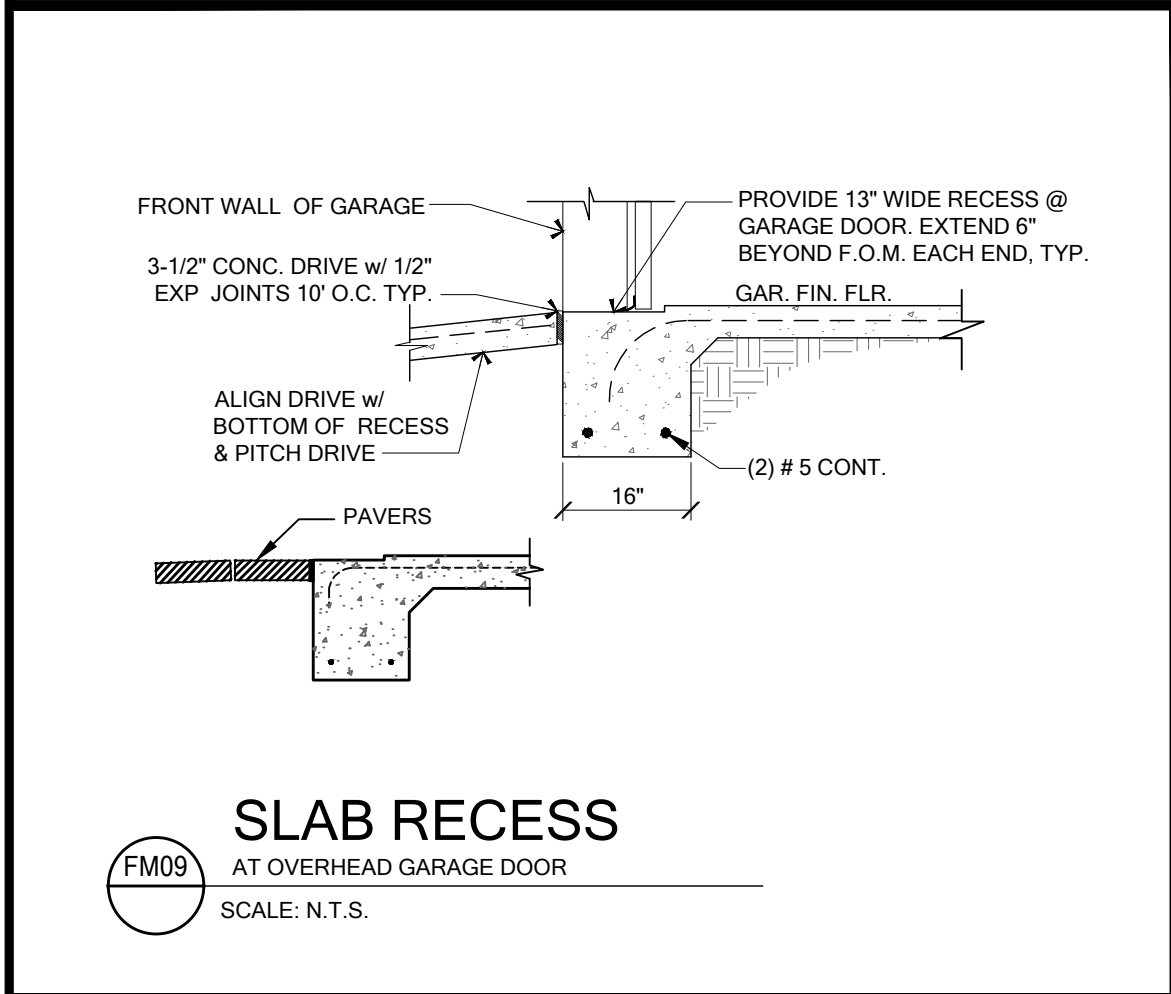
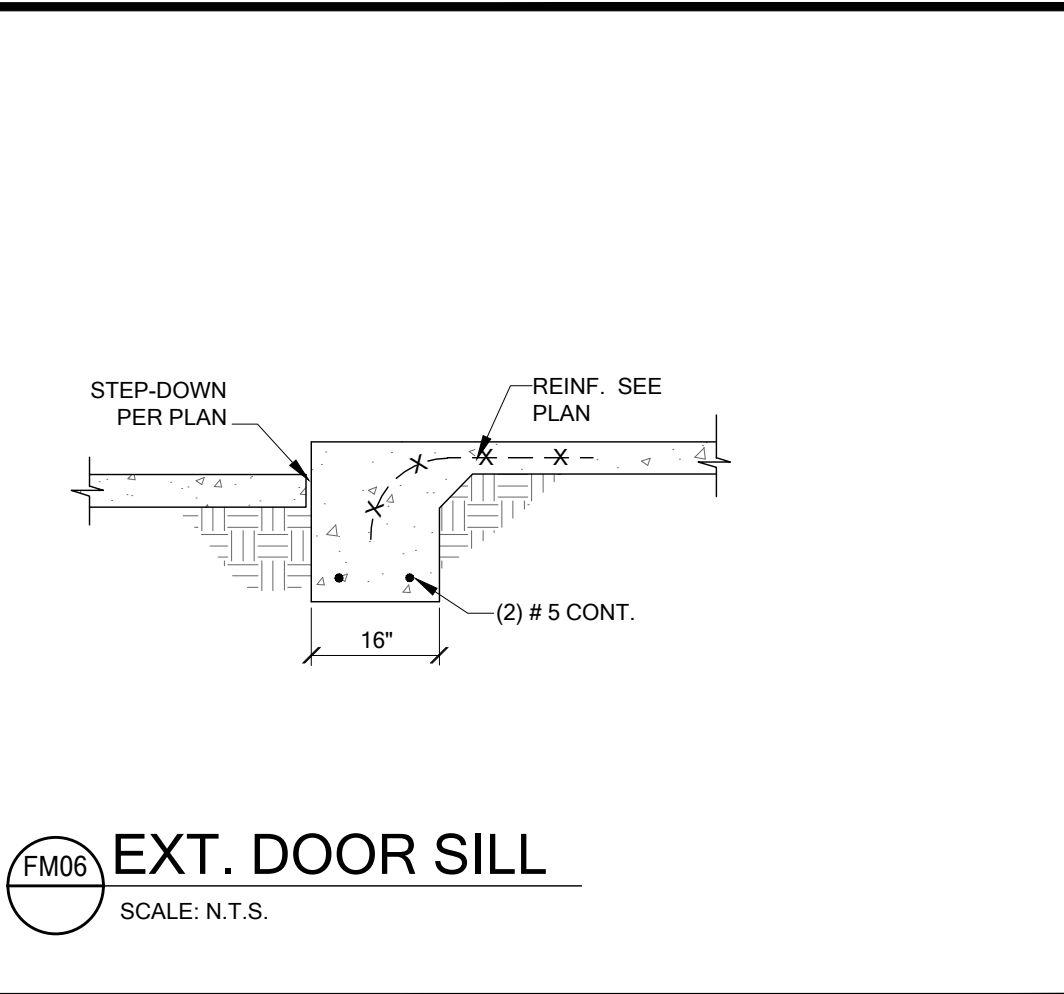
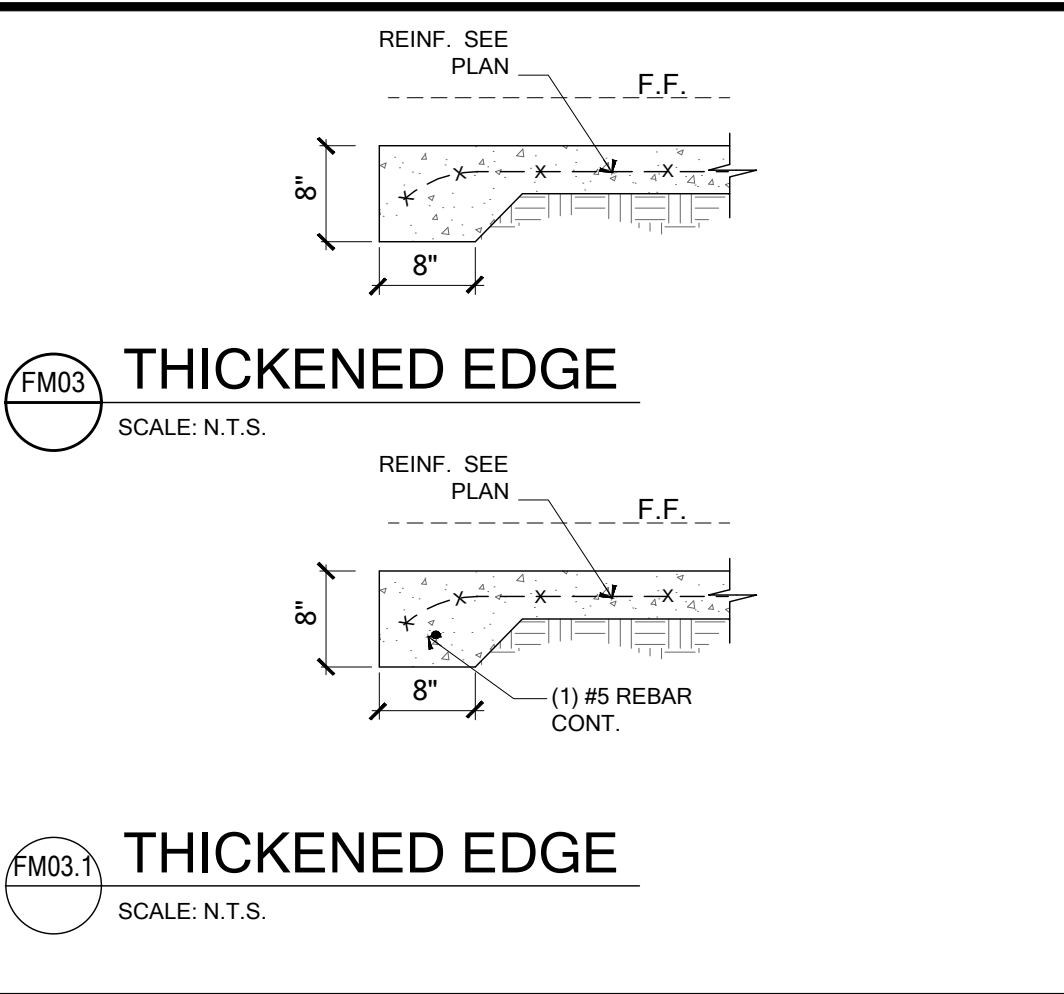
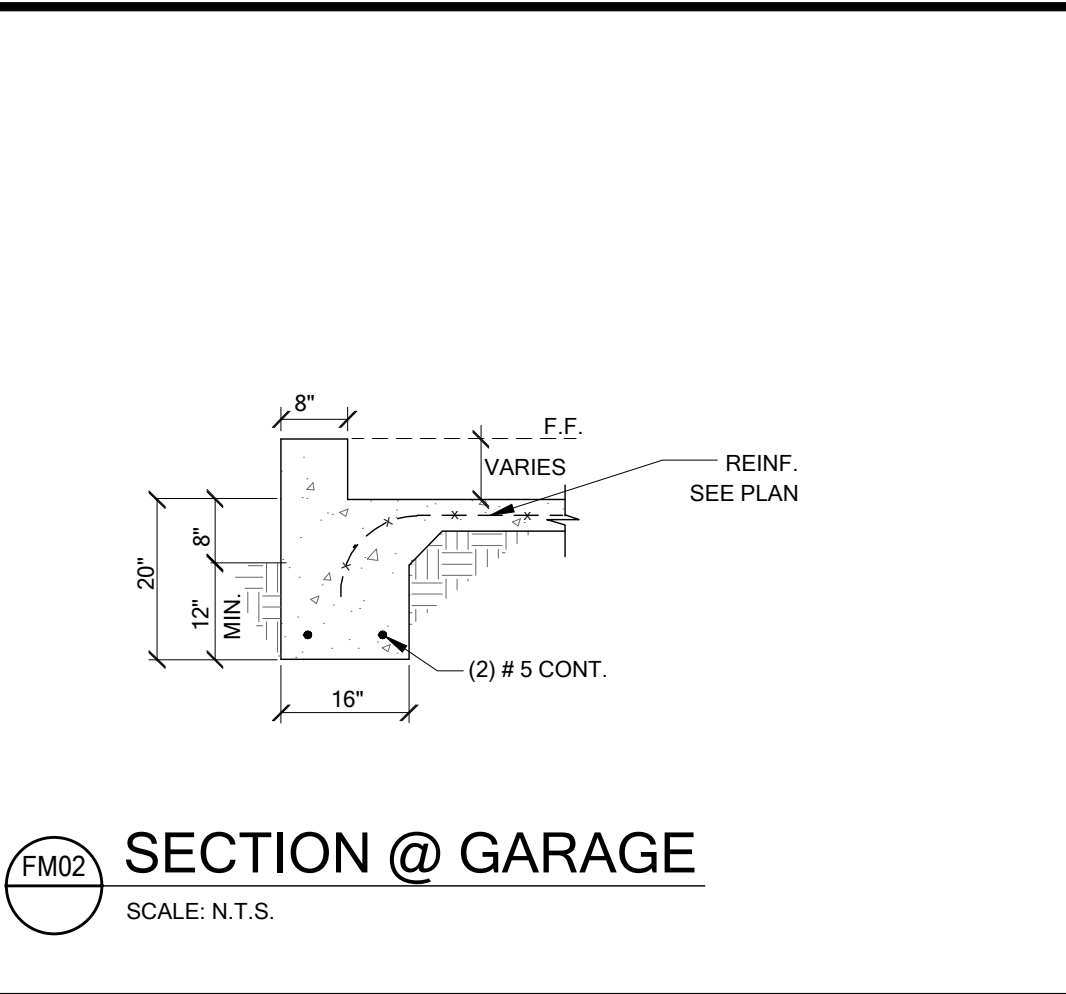
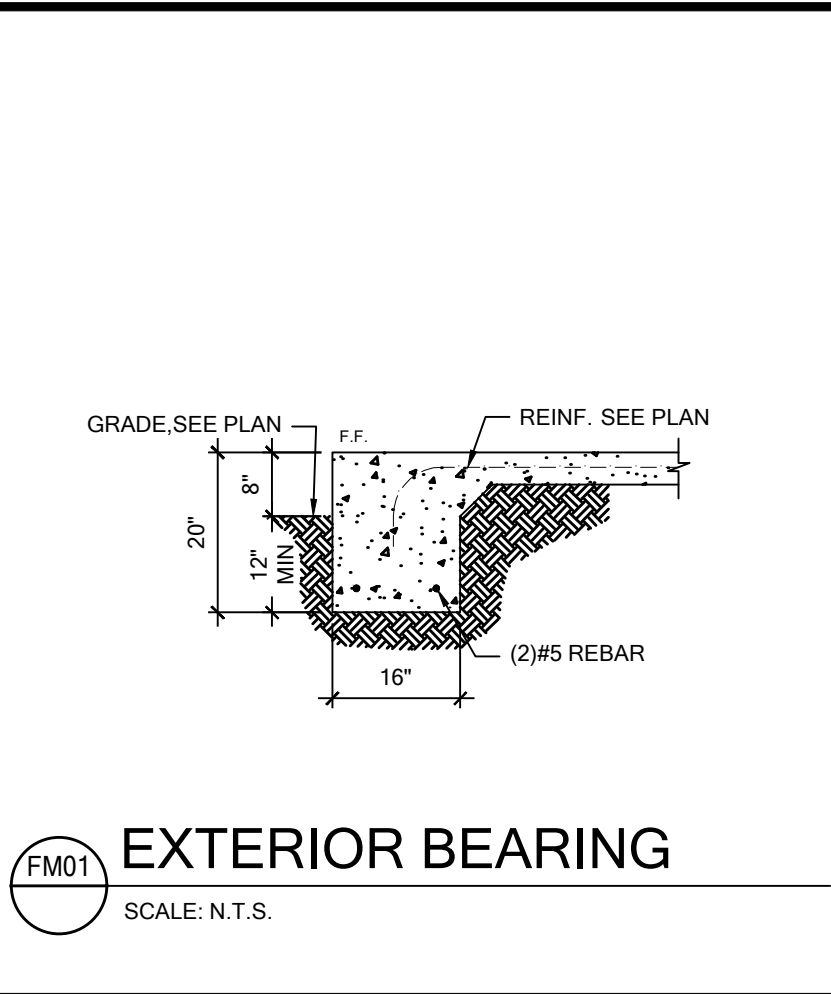
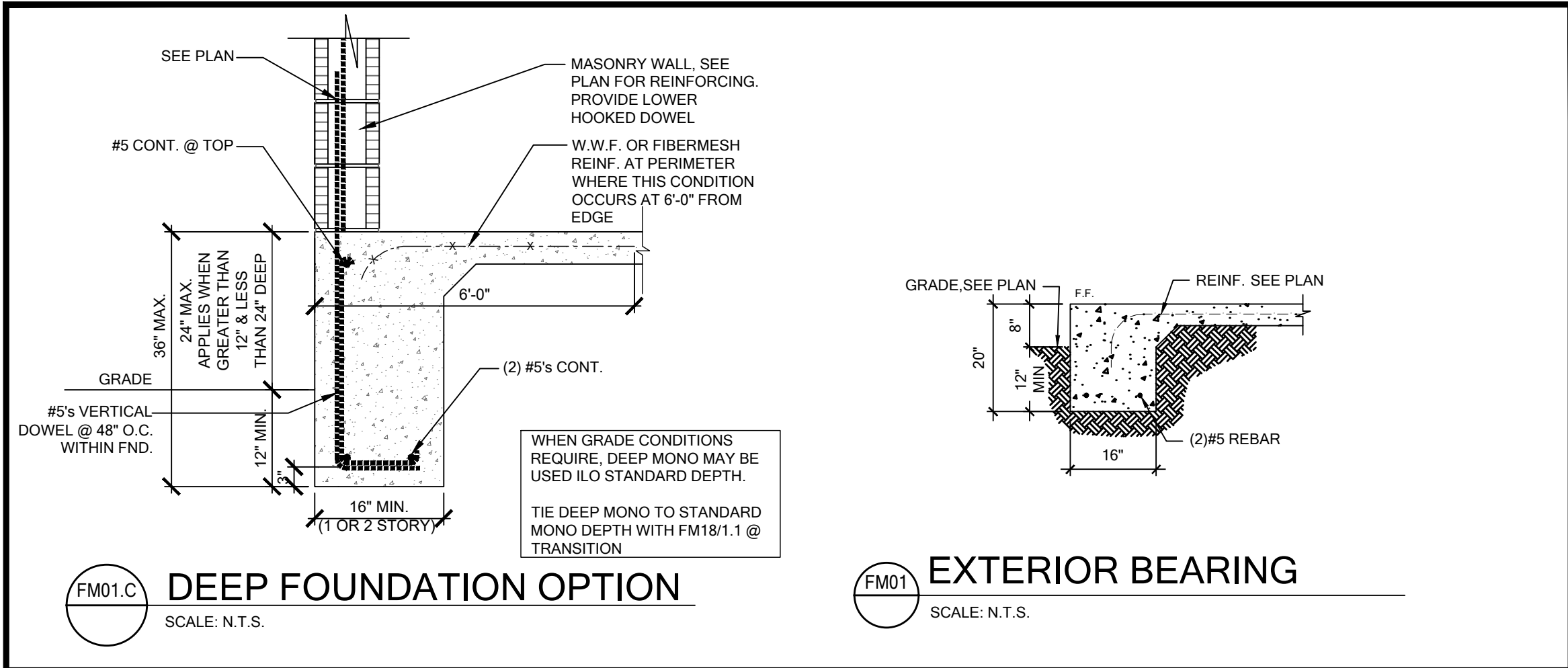
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MARONDA
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3999 West First Street
Sanford, FL 32771
(407)302-9871

Community:	Forest Cove	Garage Side:	Right
Plan Name:	Willow	Elev - F	
Lot:	1	Block:	001
Address:	TBD Street A		
	Lake City, FL 32024		
Job No.	9FC00101		
Reference No.	24-04830		
Sheet:			



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06 / 28 / 2024

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MARONDA
Homes
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Sanford, FL 32711
(407)302-9871

Community: Forest Cove

Garage Side: Right

Plan Name: Willow

Elev - F

Lot: 1

Block: 001

Address: TBD Street A

Lake City, FL 32024

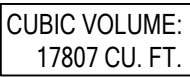
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ESSENTIALS SERIES

Reference No: 24-04830

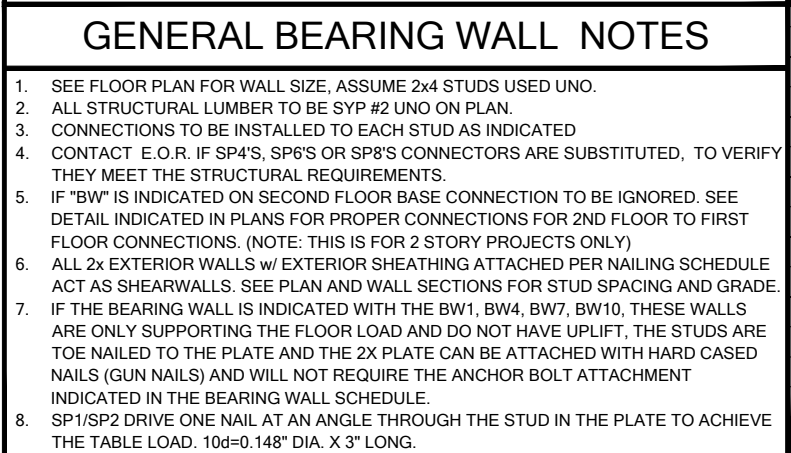
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FND. DTLS.



AREA TABULATION		
FIRST FLOOR PLAN	2052	SQ. FT.
LIVING TOTAL	2052	SQ. FT.
GARAGE	407	SQ. FT.
ENTRY	16	SQ. FT.
TOTAL AREA	2475	SQ. FT.

BEARING WOOD WALL SCHEDULE					
MARK	STUD SPACING	CONNECTION & FASTENERS		LUMBER SPECIES	UPLIFT CAP. [psi]
		TOP	BOTTOM		
BW1	---	---	---	---	---
BW2	---	---	---	---	---
BW3	---	---	---	---	---
BW4	16"	(2) 16d TOENAILS	(2) 16d TOENAILS	SYP	NO UPLIFT
BW5	16"	(1) FRAMEFAST FMF006 SCREW	(1) FRAMEFAST FMF006 SCREW	SYP	498
BW6	16"	(2) FRAMEFAST FMF006 SCREWS	(2) FRAMEFAST FMF006 SCREWS	SYP	998
BW7	---	---	---	---	---
BW8	---	---	---	---	---
BW9	---	---	---	---	---
BW10	12"	(2) 16d TOENAILS	(2) 16d TOENAILS	SYP	NO UPLIFT
BW11	12"	(1) FRAMEFAST FMF006 SCREW	(1) FRAMEFAST FMF006 SCREW	SYP	665
BW12	12"	(2) FRAMEFAST FMF006 SCREWS	(2) FRAMEFAST FMF006 SCREWS	SYP	1338



GENERAL COLUMN NOTES	
1.	SEE FLR. PLN. FOR WALL WIDTH. STUD PACKS TO MATCH WALL WIDTH UNO.
2.	ALL STRUCTURAL LUMBER TO BE SYP#2 UNO ON PLAN.
3.	NAIL BUILT UP STUDS PER DETAIL. K/S-D MINIMUM BOLT EMBEDMENT: 5" EMBEDMENT FOR 1/2" ATR 6" EMBEDMENT FOR 5/8" ATR 8" EMBEDMENT FOR 7/8" ATR
4.	SEE WOOD CONSTRUCTION NOTE #4 ON SN SHEET FOR CORROSION INFORMATION

WIND UPLIFT OPENING PRESSURES			
ENCLOSURE EXPOSED - EXPOSED SURFACE		ENCLOSURE EXPOSED - EXPOSED SURFACE	
INTERIOR WALL ZONE (4) (MORE THAN 4 FT. FROM BLDG. CORNER)		INTERIOR WALL ZONE (3) (4 FT. OR CLOSER TO BLDG. CORNER)	
(1)	+ 21.2 PSF / - 22.9 PSF	(2)	+ 21.2 PSF / - 28.3 PSF
(3)	+ 20.2 PSF / - 22.0 PSF	(4)	+ 20.2 PSF / - 26.4 PSF
(5)	+ 18.9 PSF / - 20.7 PSF	(6)	+ 18.9 PSF / - 23.9 PSF
(7)	+ 20.2 PSF / - 22.0 PSF		
(8)	+ 18.9 PSF / - 20.7 PSF		
(9)	+ 20.2 PSF / - 22.0 PSF		
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(170)	+ 18.9 PSF / - 20.7 PSF		
(171)	+ 20.2 PSF / - 22.0 PSF		
(172)	+ 18.9 PSF / - 20.7 PSF		
(173)	+ 20.2 PSF / - 22.0 PSF		
(174)	+ 18.9 PSF / - 20.7 PSF		
(175)	+ 20.2 PSF / - 22.0 PSF		
(176)	+ 18.9 PSF / - 20.7 PSF		
(177)	+ 20.2 PSF / - 22.0 PSF		
(178)	+ 18.9 PSF / - 20.7 PSF		
(179)	+ 20.2 PSF / - 22.0 PSF		
(180)	+ 18.9 PSF / - 20.7 PSF		
(181)	+ 20.2 PSF / - 22.0 PSF		
(182)	+ 18.9 PSF / - 20.7 PSF		
(183)	+ 20.2 PSF / - 22.0 PSF		
(184)	+ 18.9 PSF / - 20.7 PSF		
(185)	+ 20.2 PSF / - 22.0 PSF		
(186)	+ 18.9 PSF / - 20.7 PSF		
(187)	+ 20.2 PSF / - 22.0 PSF		
(188)	+ 18.9 PSF / - 20.7 PSF		
(189)	+ 20.2 PSF / - 22.0 PSF		
(190)	+ 18.9 PSF / - 20.7 PSF		
(191)	+ 20.2 PSF / - 22.0 PSF		
(192)	+ 18.9 PSF / - 20.7 PSF		
(193)	+ 20.2 PSF / - 22.0 PSF		
(194)	+ 18.9 PSF / - 20.7 PSF		
(195)	+ 20.2 PSF / - 22.0 PSF		
(196)	+ 18.9 PSF / - 20.7 PSF		
(197)	+ 20.2 PSF / - 22.0 PSF		
(198)	+ 18.9 PSF / - 20.7 PSF		
(199)	+ 20.2 PSF / - 22.0 PSF		
(200)	+ 18.9 PSF / - 20.7 PSF		
(201)	+ 20.2 PSF / - 22.0 PSF		
(202)	+ 18.9 PSF / - 20.7 PSF		
(203)	+ 20.2 PSF / - 22.0 PSF		
(204)	+ 18.9 PSF / - 20.7 PSF		
(205)	+ 20.2 PSF / - 22.0 PSF		
(206)	+ 18.9 PSF / - 20.7 PSF		
(207)	+ 20.2 PSF / - 22.0 PSF		
(208)	+ 18.9 PSF / - 20.7 PSF		
(209)	+ 20.2 PSF / - 22.0 PSF		
(210)	+ 18.9 PSF / - 20.7 PSF		
(211)	+ 20.2 PSF / - 22.0 PSF		
(212)	+ 18.9 PSF / - 20.7 PSF		
(213)	+ 20.2 PSF / - 22.0 PSF		
(214)	+ 18.9 PSF / - 20.7 PSF		
(215)	+ 20.2 PSF / - 22.0 PSF		
(216)	+ 18.9 PSF / - 20.7 PSF		
(217)	+ 20.2 PSF / - 22.0 PSF		
(218)	+ 18.9 PSF / - 20.7 PSF		
(219)	+ 20.2 PSF / - 22.0 PSF		
(220)	+ 18.9 PSF / - 20.7 PSF		
(221)	+ 20.2 PSF / - 22.0 PSF		
(222)	+ 18.9 PSF / - 20.7 PSF		
(223)	+ 20.2 PSF / - 22.0 PSF		
(224)	+ 18.9 PSF / - 20.7 PSF		
(225)	+ 20.2 PSF / - 22.0 PSF		
(226)	+ 18.9 PSF / - 20.7 PSF		
(227)	+ 20.2 PSF / - 22.0 PSF		
(228)	+ 18.9 PSF / - 20.7 PSF		
(229)	+ 20.2 PSF / - 22.0 PSF		
(230)	+ 18.9 PSF / - 20.7 PSF		
(231)	+ 20.2 PSF / - 22.0 PSF		
(232)	+ 18.9 PSF / - 20.7 PSF		
(233)	+ 20.2 PSF / - 22.0 PSF		
(234)	+ 18.9 PSF / - 20.7 PSF		
(235)	+ 20.2 PSF / - 22.0 PSF		
(236)	+ 18.9 PSF / - 20.7 PSF		
(237)	+ 20.2 PSF / - 22.0 PSF		
(238)	+ 18.9 PSF / - 20.7 PSF		
(239)	+ 20.2 PSF / - 22.0 PSF		
(240)	+ 18.9 PSF / - 20.7 PSF		
(241)	+ 20.2 PSF / - 22.0 PSF		
(242)	+ 18.9 PSF / - 20.7 PSF		
(243)	+ 20.2 PSF / - 22.0 PSF		
(244)	+ 18.9 PSF / - 20.7 PSF		
(245)	+ 20.2 PSF / - 22.0 PSF		
(246)	+ 18.9 PSF / - 20.7 PSF		
(247)	+ 20.2 PSF / - 22.0 PSF		
(248)	+ 18.9 PSF / - 20.7 PSF		
(249)	+ 20.2 PSF / - 22.0 PSF		
(250)	+ 18.9 PSF / - 20.7 PSF		
(251)	+ 20.2 PSF / - 22.0 PSF		
(252)	+ 18.9 PSF / - 20.7 PSF		
(253)	+ 20.2 PSF / - 22.0 PSF		
(254)	+ 18.9 PSF / - 20.7 PSF		
(255)	+ 20.2 PSF / - 22.0 PSF		
(256)	+ 18.9 PSF / - 20.7 PSF		
(257)	+ 20.2 PSF / - 22.0 PSF		
(258)	+ 18.9 PSF / - 20.7 PSF		
(259)	+ 20.2 PSF / - 22.0 PSF		
(260)	+ 18.9 PSF / - 20.7 PSF		
(261)	+ 20.2 PSF / - 22.0 PSF		
(262)	+ 18.9 PSF / - 20.7 PSF		
(263)	+ 20.2 PSF / - 22.0 PSF		
(264)	+ 18.9 PSF / - 20.7 PSF		
(265)	+ 20.2 PSF / - 22.0 PSF		
(266)	+ 18.9 PSF / - 20.7 PSF		
(267)	+ 20.2 PSF / - 22.0 PSF		
(268)	+ 18.9 PSF / - 20.7 PSF		
(269)	+ 20.2 PSF / - 22.0 PSF		
(270)	+ 18.9 PSF / - 20.7 PSF		
(271)	+ 20.2 PSF / - 22.0 PSF		
(272)	+ 18.9 PSF / - 20.7 PSF		
(273)	+ 20.2 PSF / - 22.0 PSF		
(274)	+ 18.9 PSF / - 20.7 PSF		
(275)	+ 20.2 PSF / - 22.0 PSF		
(276)	+ 18.9 PSF / - 20.7 PSF		
(277)	+ 20.2 PSF / - 22.0 PSF		
(278)	+ 18.9 PSF / - 20.7 PSF		
(279)	+ 20.2 PSF / - 22.0 PSF		
(280)	+ 18.9 PSF / - 20.7 PSF		
(281)	+ 20.2 PSF / - 22.0 PSF		
(282)	+ 18.9 PSF / - 20.7 PSF		
(283)	+ 20.2 PSF / - 22.0 PSF		
(284)	+ 18.9 PSF / - 20.7 PSF		
(285)	+ 20.2 PSF / - 22.0 PSF		
(286)	+ 18.9 PSF / - 20.7 PSF		
(287)	+ 20.2 PSF / - 22.0 PSF		
(288)	+ 18.9 PSF / - 20.7 PSF		
(289)	+ 20.2 PSF / - 22.0 PSF		
(290)	+ 18.9 PSF / - 20.7 PSF		
(291)	+ 20.2 PSF / - 22.0 PSF		
(292)	+ 18.9 PSF / - 20.7 PSF		
(293)	+ 20.2 PSF / - 22.0 PSF		
(294)	+ 18.9 PSF / - 20.7 PSF		
(295)	+ 20.2 PSF / - 22.0 PSF		
(296)	+ 18.9 PSF / - 20.7 PSF		
(297)	+ 20.2 PSF / - 22.0 PSF		
(298)	+ 18.9 PSF / - 20.7 PSF		
(299)	+ 20.2 PSF / - 22.0 PSF		
(300)	+ 18.9 PSF / - 20.7 PSF		
(301)	+ 20.2 PSF / - 22.0 PSF		
(302)	+ 18.9 PSF / - 20.7 PSF		
(303)	+ 20.2 PSF / - 22.0 PSF		

WINDOW SCHEDULE						
MASONRY						
TYPE	SIZE	ROUGH OPEN	U-Value SHGC w/Gr		U-Value w/Gr	
			SHGC	Gr	SHGC	Gr
1H2 SH	25 1/2" x 26"	27 1/4" x 26"	0.33	0.23	0.33	0.2
1H3 SH	28 1/2" x 33 1/2"	27 1/4" x 33 1/2"	0.33	0.23	0.33	0.2
1H4 SH	31 1/2" x 38 1/2"	27 1/4" x 38 1/2"	0.33	0.23	0.33	0.2
1H5 SH	34 1/2" x 43 1/2"	27 1/4" x 43 1/2"	0.33	0.23	0.33	0.2
1H6 SH	37 1/2" x 48 1/2"	27 1/4" x 48 1/2"	0.33	0.23	0.33	0.2
1H7 SH	51 1/2" x 63 1/2"	53 7/8" x 63 1/2"	0.33	0.23	0.33	0.2
2H2 SH	25 1/2" x 26"	27 1/4" x 26"	0.33	0.23	0.33	0.2
2H3 SH	28 1/2" x 33 1/2"	37 3/4" x 33 1/2"	0.33	0.23	0.33	0.2
2H4 SH	31 1/2" x 38 1/2"	37 3/4" x 38 1/2"	0.33	0.23	0.33	0.2
2H5 SH	34 1/2" x 43 1/2"	37 3/4" x 43 1/2"	0.33	0.23	0.33	0.2
2H6 SH	37 1/2" x 48 1/2"	37 3/4" x 48 1/2"	0.33	0.23	0.33	0.2
2H7 SH	51 1/2" x 63 1/2"	53 7/8" x 63 1/2"	0.33	0.23	0.33	0.2
3H2 SH	36" x 36"	37 3/4" x 36"	0.33	0.23	0.33	0.2
3H3 SH	36" x 42"	37 3/4" x 42"	0.33	0.23	0.33	0.2
3H4 SH	36" x 48"	53 7/8" x 38 1/2"	0.33	0.23	0.33	0.2
3H5 SH	36" x 54"	53 7/8" x 43 1/2"	0.33	0.23	0.33	0.2
3H6 SH	42" x 58 1/2"	49 1/4" x 48 1/2"	0.33	0.23	0.33	0.2
3H7 SH	50" x 54 1/2"	49 1/4" x 58 1/2"	0.33	0.23	0.33	0.2
3H8 SH	50" x 54 1/2"	37 3/4" x 57 1/2" wall	0.31	0.26	0.31	0.2
3H9 SH	72" x 48 1/2"	73 7/8" x 58 1/2"	0.33	0.23	0.33	0.2
3H10 SH	72" x 54 1/2"	73 7/8" x 63 1/2"	0.33	0.23	0.33	0.2
3H11 SH	72" x 60 1/2"	73 7/8" x 69 1/2"	0.33	0.23	0.33	0.2
3H12 SH	72" x 66 1/2"	73 7/8" x 75"	0.33	0.23	0.33	0.2
3H13 SH	72" x 72 1/2"	73 7/8" x 72"	0.33	0.23	0.33	0.2
3H14 SH	72" x 78 1/2"	73 7/8" x 78"	0.33	0.23	0.33	0.2
3H15 SH	108 1/2" x 82"	110" x 92"	0.33	0.23	0.33	0.2
3H16 SH	126 1/2" x 93 1/2"	127 1/2" x 93 1/2"	0.33	0.23	0.33	0.2
3H17 SH	212 1/2" x 93 1/2"	214" x 93 1/2"	0.31	0.26	0.31	0.2
3H18 SH	212 1/2" x 93 1/2"	214" x 102" wall	0.31	0.26	0.31	0.2
3H19 SH	212 1/2" x 93 1/2"	214" x 110" wall	0.31	0.26	0.31	0.2
3H20 SH	212 1/2" x 93 1/2"	214" x 118" wall	0.31	0.26	0.31	0.2
3H21 SH	212 1/2" x 93 1/2"	214" x 126" wall	0.31	0.26	0.31	0.2
3H22 SH	212 1/2" x 93 1/2"	214" x 134" wall	0.31	0.26	0.31	0.2
3H23 SH	212 1/2" x 93 1/2"	214" x 142" wall	0.31	0.26	0.31	0.2
3H24 SH	212 1/2" x 93 1/2"	214" x 150" wall	0.31	0.26	0.31	0.2
3H25 SH	212 1/2" x 93 1/2"	214" x 158" wall	0.31	0.26	0.31	0.2
3H26 SH	212 1/2" x 93 1/2"	214" x 166" wall	0.31	0.26	0.31	0.2
3H27 SH	212 1/2" x 93 1/2"	214" x 174" wall	0.31	0.26	0.31	0.2
3H28 SH	212 1/2" x 93 1/2"	214" x 182" wall	0.31	0.26	0.31	0.2
3H29 SH	212 1/2" x 93 1/2"	214" x 190" wall	0.31	0.26	0.31	0.2
3H30 SH	212 1/2" x 93 1/2"	214" x 198" wall	0.31	0.26	0.31	0.2
3H31 SH	212 1/2" x 93 1/2"	214" x 206" wall	0.31	0.26	0.31	0.2
3H32 SH	212 1/2" x 93 1/2"	214" x 214" wall	0.31	0.26	0.31	0.2
3H33 SH	212 1/2" x 93 1/2"	214" x 222" wall	0.31	0.26	0.31	0.2
3H34 SH	212 1/2" x 93 1/2"	214" x 230" wall	0.31	0.26	0.31	0.2
3H35 SH	212 1/2" x 93 1/2"	214" x 238" wall	0.31	0.26	0.31	0.2
3H36 SH	212 1/2" x 93 1/2"	214" x 246" wall	0.31	0.26	0.31	0.2
3H37 SH	212 1/2" x 93 1/2"	214" x 254" wall	0.31	0.26	0.31	0.2
3H38 SH	212 1/2" x 93 1/2"	214" x 262" wall	0.31	0.26	0.31	0.2
3H39 SH	212 1/2" x 93 1/2"	214" x 270" wall	0.31	0.26	0.31	0.2
3H40 SH	212 1/2" x 93 1/2"	214" x 278" wall	0.31	0.26	0.31	0.2
3H41 SH	212 1/2" x 93 1/2"	214" x 286" wall	0.31	0.26	0.31	0.2
3H42 SH	212 1/2" x 93 1/2"	214" x 294" wall	0.31	0.26	0.31	0.2
3H43 SH	212 1/2" x 93 1/2"	214" x 302" wall	0.31	0.26	0.31	0.2
3H44 SH	212 1/2" x 93 1/2"	214" x 310" wall	0.31	0.26	0.31	0.2
3H45 SH	212 1/2" x 93 1/2"	214" x 318" wall	0.31	0.26	0.31	0.2
3H46 SH	212 1/2" x 93 1/2"	214" x 326" wall	0.31	0.26	0.31	0.2
3H47 SH	212 1/2" x 93 1/2"	214" x 334" wall	0.31	0.26	0.31	0.2
3H48 SH	212 1/2" x 93 1/2"	214" x 342" wall	0.31	0.26	0.31	0.2
3H49 SH	212 1/2" x 93 1/2"	214" x 350" wall	0.31	0.26	0.31	0.2
3H50 SH	212 1/2" x 93 1/2"	214" x 358" wall	0.31	0.26	0.31	0.2
3H51 SH	212 1/2" x 93 1/2"	214" x 366" wall	0.31	0.26	0.31	0.2
3H52 SH	212 1/2" x 93 1/2"	214" x 374" wall	0.31	0.26	0.31	0.2
3H53 SH	212 1/2" x 93 1/2"	214" x 382" wall	0.31	0.26	0.31	0.2
3H54 SH	212 1/2" x 93 1/2"	214" x 390" wall	0.31	0.26	0.31	0.2
3H55 SH	212 1/2" x 93 1/2"	214" x 398" wall	0.31	0.26	0.31	0.2
3H56 SH	212 1/2" x 93 1/2"	214" x 406" wall	0.31	0.26	0.31	0.2
3H57 SH	212 1/2" x 93 1/2"	214" x 414" wall	0.31	0.26	0.31	0.2
3H58 SH	212 1/2" x 93 1/2"	214" x 422" wall	0.31	0.26	0.31	0.2
3H59 SH	212 1/2" x 93 1/2"	214" x 430" wall	0.31	0.26	0.31	0.2
3H60 SH	212 1/2" x 93 1/2"	214" x 438" wall	0.31	0.26	0.31	0.2
3H61 SH	212 1/2" x 93 1/2"	214" x 446" wall	0.31	0.26	0.31	0.2
3H62 SH	212 1/2" x 93 1/2"	214" x 454" wall	0.31	0.26	0.31	0.2
3H63 SH	212 1/2" x 93 1/2"	214" x 462" wall	0.31	0.26	0.31	0.2
3H64 SH	212 1/2" x 93 1/2"	214" x 470" wall	0.31	0.26	0.31	0.2
3H65 SH	212 1/2" x 93 1/2"	214" x 478" wall	0.31	0.26	0.31	0.2
3H66 SH	212 1/2" x 93 1/2"	214" x 486" wall	0.31	0.26	0.31	0.2
3H67 SH	212 1/2" x 93 1/2"	214" x 494" wall	0.31	0.26	0.31	0.2
3H68 SH	212 1/2" x 93 1/2"	214" x 502" wall	0.31	0.26	0.31	0.2
3H69 SH	212 1/2" x 93 1/2"	214" x 510" wall	0.31	0.26	0.31	0.2
3H70 SH	212 1/2" x 93 1/2"	214" x 518" wall	0.31	0.26	0.31	0.2
3H71 SH	212 1/2" x 93 1/2"	214" x 526" wall	0.31	0.26	0.31	0.2
3H72 SH	212 1/2" x 93 1/2"	214" x 534" wall	0.31	0.26	0.31	0.2
3H73 SH	212 1/2" x 93 1/2"	214" x 542" wall	0.31	0.26	0.31	0.2
3H74 SH	212 1/2" x 93 1/2"	214" x 550" wall	0.31	0.26	0.31	0.2
3H75 SH	212 1/2" x 93 1/2"	214" x 558" wall	0.31	0.26	0.31	0.2
3H76 SH	212 1/2" x 93 1/2"	214" x 566" wall	0.31	0.26	0.31	0.2
3H77 SH	212 1/2" x 93 1/2"	214" x 574" wall	0.31	0.26	0.31	0.2
3H78 SH	212 1/2" x 93 1/2"	214" x 582" wall	0.31	0.26	0.31	0.2
3H79 SH	212 1/2" x 93 1/2"	214" x 590" wall	0.31	0.26	0.31	0.2
3H80 SH	212 1/2" x 93 1/2"	214" x 598" wall	0.31	0.26	0.31	0.2
3H81 SH	212 1/2" x 93 1/2"	214" x 606" wall	0.31	0.26	0.31	0.2
3H82 SH	212 1/2" x 93 1/2"	214" x 614" wall	0.31	0.26	0.31	0.2
3H83 SH	212 1/2" x 93 1/2"	214" x 622" wall	0.31	0.26	0.31	0.2
3H84 SH	212 1/2" x 93 1/2"	214" x 630" wall	0.31	0.26	0.31	0.2
3H85 SH	212 1/2" x 93 1/2"	214" x 638" wall	0.31	0.26	0.31	0.2
3H86 SH	212 1/2" x 93 1/2"	214" x 646" wall	0.31	0.26	0.31	0.2
3H87 SH	212 1/2" x 93 1/2"	214" x 654" wall	0.31	0.26	0.31	0.2
3H88 SH	212 1/2" x 93 1/2"	214" x 662" wall	0.31	0.26	0.31	0.2
3H89 SH	212 1/2" x 93 1/2"	214" x 670" wall	0.31	0.26	0.31	0.2
3H90 SH	212 1/2" x 93 1/2"	214" x 678" wall	0.31	0.26	0.31	0.2
3H91 SH	212 1/2" x 93 1/2"	214" x 686" wall	0.31	0.26	0.31	0.2
3H92 SH	212 1/2" x 93 1/2"	214" x 694" wall	0.31	0.26	0.31	0.2
3H93 SH	212 1/2" x 93 1/2"	214" x 702" wall	0.31	0.26	0.31	0.2
3H94 SH	212 1/2" x 93 1/2"	214" x 710" wall	0.31	0.26	0.31	0.2
3H95 SH	212 1/2" x 93 1/2"	214" x 718" wall	0.31	0.26	0.31	0.2
3H96 SH	212 1/2" x 93 1/2"	214" x 726" wall	0.31	0.26	0.31	0.2
3H97 SH	212 1/2" x 93 1/2"	214" x 734" wall	0.31	0.26	0.31	0.2
3H98 SH	212 1/2" x 93 1/2"	214" x 742" wall	0.31	0.26	0.31	0.2
3H99 SH	212 1/2" x 93 1/2"	214" x 750" wall	0.31	0.26	0.31	0.2
3H100 SH	212 1/2" x 93 1/2"	214" x 758" wall	0.31	0.26	0.31	0.2

[illegible]

DOOR SCHEDULE				
ALL DOOR ARE INSURING AND IF YOU NEED NOT SWING 1-3/8" OFF HEIGHT				
DOOR TYPE	SIZE	MASONRY OPG	FRAME HEIGHT	
X6 X6.8	25 1/2" X 82"	29" X 83 3/4"	26" X 82 1/2"	
X6 X6.8	25 1/2" X 98"	29" X 99 3/4"	26" X 98 1/2"	
X6 X6.8	29 1/2" X 82"	33" X 83 3/4"	30" X 82 1/2"	
X6 X6.8	29 1/2" X 82"	33" X 99 3/4"	30" X 98 1/2"	
X6 X6.8	31 1/2" X 82"	35" X 83 3/4"	32" X 82 1/2"	
X6 X6.8	31 1/2" X 98"	35" X 99 3/4"	32" X 98 1/2"	
X6 X6.8	37 1/2" X 82"	41" X 83 3/4"	38" X 82 1/2"	
X6 X6.8	37 1/2" X 98"	41" X 99 3/4"	38" X 98 1/2"	
w/11 X 11 X 6.8	51 1/8" X 82"	54 1/2" X 83 3/4"	51 1/2" X 82 1/2"	
w/11 X 11 X 8.0	51 1/8" X 98"	54 1/2" X 99 3/4"	51 1/2" X 98 1/2"	
w/11 X 11 X 6.8	68 1/2" X 82"	68 1/2" X 82"	67 3/4" X 82 1/2"	
w/11 X 11 X 8.0	64 1/2" X 98"	64 1/2" X 98"	62 3/4" X 98 1/2"	
DR. DR. DR. DR. DR. DR.	75" X 82"	76 1/4" X 83 3/4"	74 3/4" X 82 1/2"	
DR. DR. DR. DR. DR. DR.	75" X 98"	76 1/4" X 99 3/4"	74 3/4" X 98 1/2"	
DR. DR. DR. DR. DR. DR.	141 1/8" X 96"	144 5/8" X 97 3/4"	143 1/4" X 96 1/2"	
W/12 X 7 0" CHD	96" X 84"	96" X 84"	96" X 84"	
W/12 X 7 0" CHD	192" X 84"	96" X 84"	96" X 84"	

SLIDING GLASS DOORS				
DOOR TYPE	SIZE	MASONRY OP'NG	U-VALUE	SHGC
68 SGD	60" X 80"	63 1/2" X 81 3/4"	0.54	0.25
75 SGD	72" X 80"	75 1/2" X 81 3/4"	0.54	0.25
80 SGD	72" X 96"	75 1/2" X 97 3/4"	0.54	0.25
86 SGD	96" X 80"	99 1/2" X 81 3/4"	0.54	0.25
86 SGD	96" X 96"	99 1/2" X 97 3/4"	0.54	0.25
80 SGD	106 13/16" X 80"	110 1/4" X 81 3/4"	0.54	0.25
80 SGD	106 13/16" X 96"	110 1/4" X 97 3/4"	0.54	0.25
080 SGD	141 1/8" X 96"	144 5/8" X 97 3/4"	0.54	0.25

SEE MANUFACTURER DETAIL FOR INSTALLATION AND # OF FASTENERS PER DOOR.

HEADER SCHEDULE				
MARK	HEADER SIZE	REMARKS		
(H1)	(2) - 2X6 #2 SYP W/ 1/2" FLUTCH PLATE	SEE NOTE #5		
(H2)	(2) - 2X8 #2 SYP W/ 1/2" FLUTCH PLATE	SEE NOTE #5		
(H3)	(2) - 2X10 #2 SYP W/ 1/2" FLUTCH PLATE	SEE NOTE #5		
(H4)	(2) - 2X12 #2 SYP W/ 1/2" FLUTCH PLATE	SEE NOTE #5		
(H5)	3 1/2" X 7 1/4" GLULAM	(1.6E/F=1,500 PSI)		
HEADER SUPPORT NO. OF JACKS & STUDS REQ. AT OPENING:				
OPENING SIZE	2x4 WALL		2x6 OR 2x8 WALL	
	JACKS EA END	KINGS EA END	JACKS EA END	KINGS EA END
	(1)	(2)	(1)	(2)
	(2)	(3)	(2)	(3)
	(3)	(4)	(3)	(4)

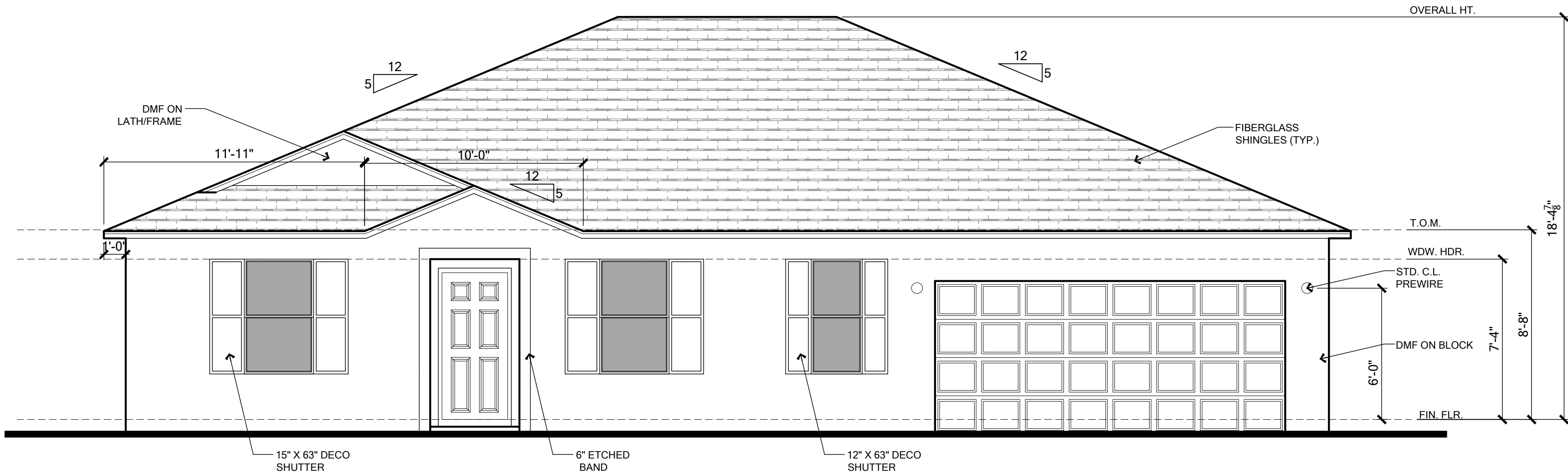
GENERAL HEADER NOTES

VERIFY W/ PLAN CORRECT LENGTH OF HEADER REQUIRED
 IF HEADER IS ON THE 1ST FLOOR, SEE PLAN FOR BEARING WALL TYPE AND FOLLOW INSTRUCTIONS WITHIN BEARING WALL SCHEDULE FOR REQUIRED CORRECTIONS AND ON PLAN.
 IF HEADER IS ON THE 2ND FLOOR SEE PLAN FOR INDICATED HEADER CONNECTION FOR REQUIRED CONNECTIONS.
 ALL HEADER JACK AND KING STUDS SHALL BE FASTENED TO EACH PER DETAIL K/S/D.
 FASTEN ALL MULTI-PLY HEADERS TOGETHER W/ (2) ROWS 10d COMMON NAILS AT 8" O.C. ALONG EACH EDGE OR (3) ROWS IF 2x10 OR LARGER.
 FASTEN ALL HEADERS TO KING STUDS W/ (3) 10d TOENAILS PER SIDE.
 IF HEADER IS NOT SPECIFIED CONTACT E.O.R.

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☐ SCOTT A. LEWIKOWSKI, PE - FL #78750
☐ THIEN BAO DUONG, PE - FL #94452

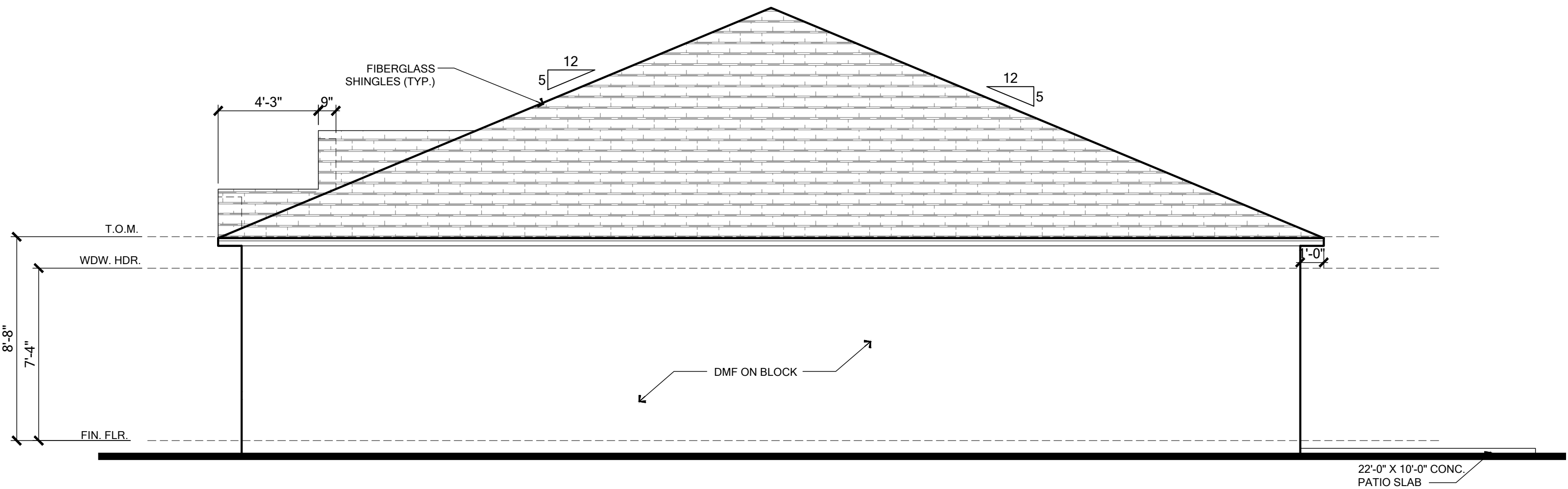


FLOOR PLAN



FRONT ELEVATION

SCALE: 1/4" = 1'- 0"



RIGHT ELEVATION

SCALE: 1/4" = 1'- 0"

ELEVATION NOTES

EAVE OVERHANG 12" ALUM. FASCIA AND SOFFITS, AND SOFFITS AND GABLE OVERHANG 9" ALUM. FASCIA AND SOFFITS, U.N.O. PLUMB CUT WITH LEVEL RETURNS

Banding/Stucco General Notes

1. Etched Banding typical at Front Elevation.
2. Raised banding to return 1'-0" around corner.
3. Side and Rear elevations to have 4" etched banding unless otherwise noted.
4. When installed with stone/brick veneer increase thickness of banding by 2" typical.

R703.7 Exterior Plaster

Installation of these materials shall be in compliance with ASTM C926, ASTM C1063, or ASTM C1787 and the provisions of this code.

R703.7.1 Lath

Lath and Lath attachments shall be of corrosion-resistant materials. Expanded metal or woven wire lath shall be attached with 1-1/2" long, 11 gage nails having a 7/16" head, or 1-1/2" long, 16 gage staples, spaced in accordance with ASTM C1063 or C1787, or as otherwise approved. (Refer to Sheet SN for the engineered method for Lath attachment.)

Lathing Accessories

Attachments shall be of corrosion-resistant materials. Wood Application: 16 Ga x1-1/2" long (3/4"-1" crown) staples @ 6" O.C. vertically/horizontally into the framing members. Masonry Application: Concrete stud nail, 3/8" (10 mm) head dia. Min. @ 6" O.C. vertically/horizontally or compatible adhesives, exterior gun-grade, construction adhesive with 1" dabs @ 6" O.C. or in a semi-continuous bead between the solid plaster base and the solid portion of the key attachment flange. Control Joints: Install control joint lathing accessories in conformance with C1063. Lath shall not be continuous through control joints, but shall be stopped and tied at each side. All accessories shall be in accordance with the latest ASTM C1063 & ASTM C1861.

R703.7.2 Plaster

Plastering with cement plaster shall be not less than three coats where applied over any type of code-approved lath and shall be not less than two coats where directly applied over masonry, concrete, clay brick, stone, or tile. If the plaster surface is completely covered by veneer or other facing material or is completely concealed, plaster application need be only two coats, provided total thickness is as set in Table R702.1(1).

Cement plaster shall be in accordance with ASTM C926 and material shall be in accordance with one of the types listed in R703.7.2.

R703.7.3 Water-Resistive Barriers

Water-resistive barriers shall be installed as required in Section R703.2 and, where applied over wood-based sheathing, shall include a water-resistive vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing (installed in accordance with Section R703.4) intended to drain to the water-resistive barrier is directed between the layers.

R703.2 Water-Resistive Barrier

Not fewer than one layer of water-resistive barrier shall be applied over studs or sheathing of all exterior walls with flashing as indicated in Section R703.4, in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer. The water-resistive barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

Water-resistive barrier materials shall comply with one of the following:

1. No. 15 felt complying with ASTM D226, Type 1.
 2. ASTM E2568, Type 1 or 2.
 3. ASTM E331 in accordance with Section R703.11.
 4. Other approved materials in accordance with the manufacturer's installation instructions.
- No. 15 asphalt felt and water-resistive barriers complying with ASTM E2568 shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51mm), and where joints occur, shall be lapped not less than 6 inches (152 mm).

R703.4 Flashing

Approved metal flashing, vinyl flashing, self-adhered membranes and mechanically attached flexible flashing shall be applied shingle-fashion or in accordance with the manufacturer's instructions. Metal flashing shall be corrosion resistant. Fluid-applied membranes used as flashing shall be applied in accordance with the manufacturer's instructions. All flashing shall be applied in a manner to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components.

Self-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C920 Class 25 Grade NS or greater for proper joint expansion and contraction, ASTM C1281, AAMA 812, or other approved standard as appropriate for the type of sealant. Fluid-applied membranes used as flashing in exterior walls shall comply with AAMA 714. The flashing shall extend to the surface of the exterior wall finish.

Approved flashings shall be installed at the following locations.

- Exterior window/door openings.
- Intersection of chimneys or other masonry construction with frame walls.
- Under and at the ends of masonry, wood or metal copings and sills.
- Continuously above all projecting wood trim
- Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
- At wall and roof intersection.
- At Built-in gutters.

R703.12 Adhered Masonry Veneer

Adhered masonry veneer (or stone veneer) installation shall comply with the requirements of Section R703.7.3 and the requirements in Sections 12.1 and 12.3 of TMS 402/ACI 530/ASCE 5. Adhered masonry veneer shall be installed in accordance with Sections R703.7.1, Article 3.3C of TMS 602/ACI 530.1/ASCE 6 or the manufacturer's instructions.

Coastal Flashings: all flashing material for coastal locations (ex. within 3,000 feet of the ocean) shall be corrosion resistant material (ex. zinc and/or stainless steel) and shall be selected for compatibility with adjacent wood preservatives per the manufacturer's recommendations.

CALCULATIONS BASED ON THE FOLLOWING VALUES

- RIDGE VENTS - 15 SQ. IN. OF NET FREE AREA / LINEAR FT.
- OFF-RIDGE VENTS - 140 SQ. IN. OF NET FREE AREA / UNIT
- SOFFIT VENTS - 14.9 SQ. IN. OF NET FREE AREA / SQ. FT.

	ATTIC SPACE	1/150 Rule			1/300 Rule		
		SQ. IN. of ventilation required	SQ. FT. of vented soffit needed	LF of vented soffit provided	SQ. IN. of ventilation required	SQ. FT. of vented soffit needed	SQ. IN. of ventilation to be provided by upper ventilators
FIRST FLOOR PLAN	2475	2376.0	159.5	200	1188.0	26.6	594.0

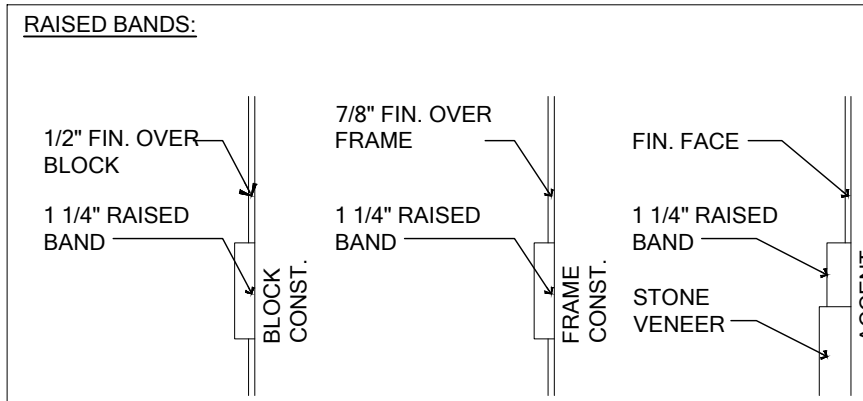
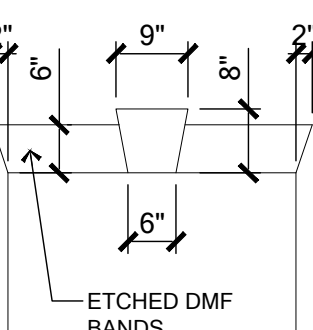
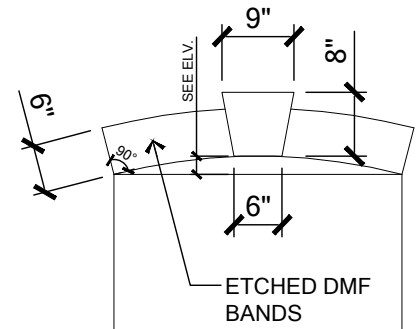
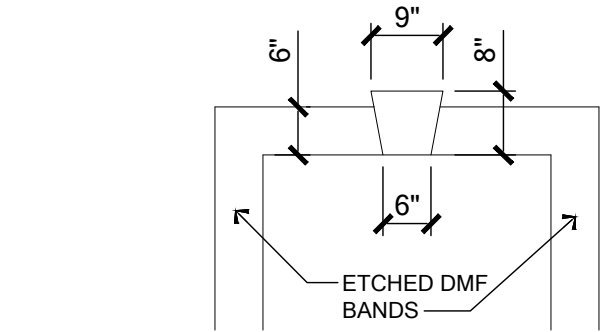
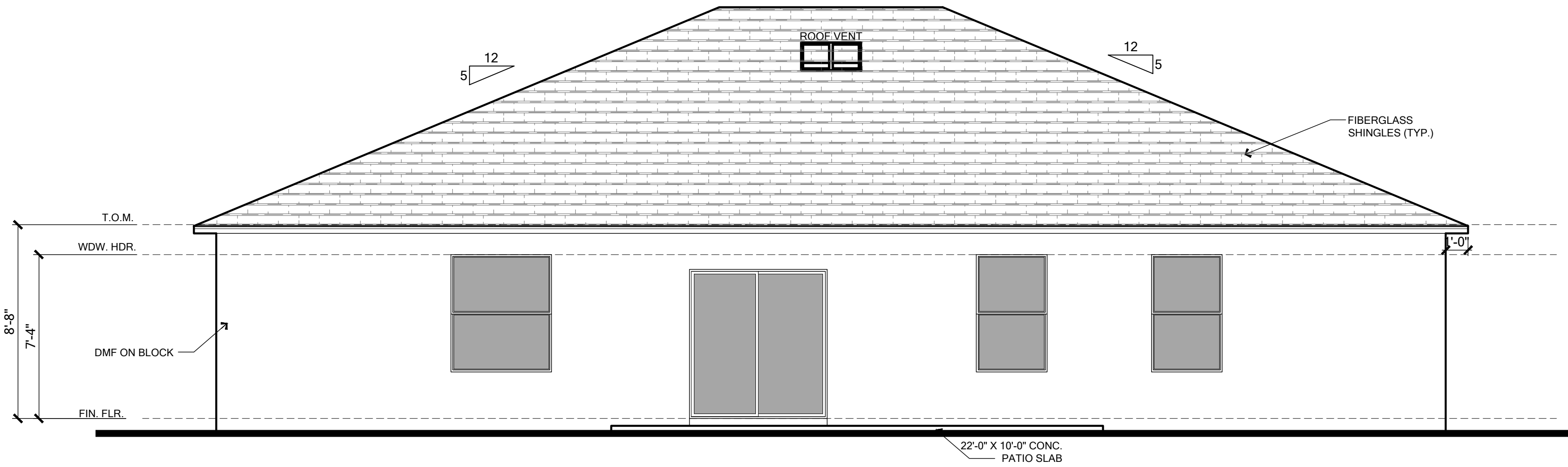
VENTILATION PROVIDED		
	Amt.	Total Ventilation Provided (Sq. Inches)
Off-Ridge Vent (1st Floor)	1	140
Total Ventilation Provided by Upper Ventilators		140
1/150 Rule used; Off-Ridge not part of Calculations		

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.



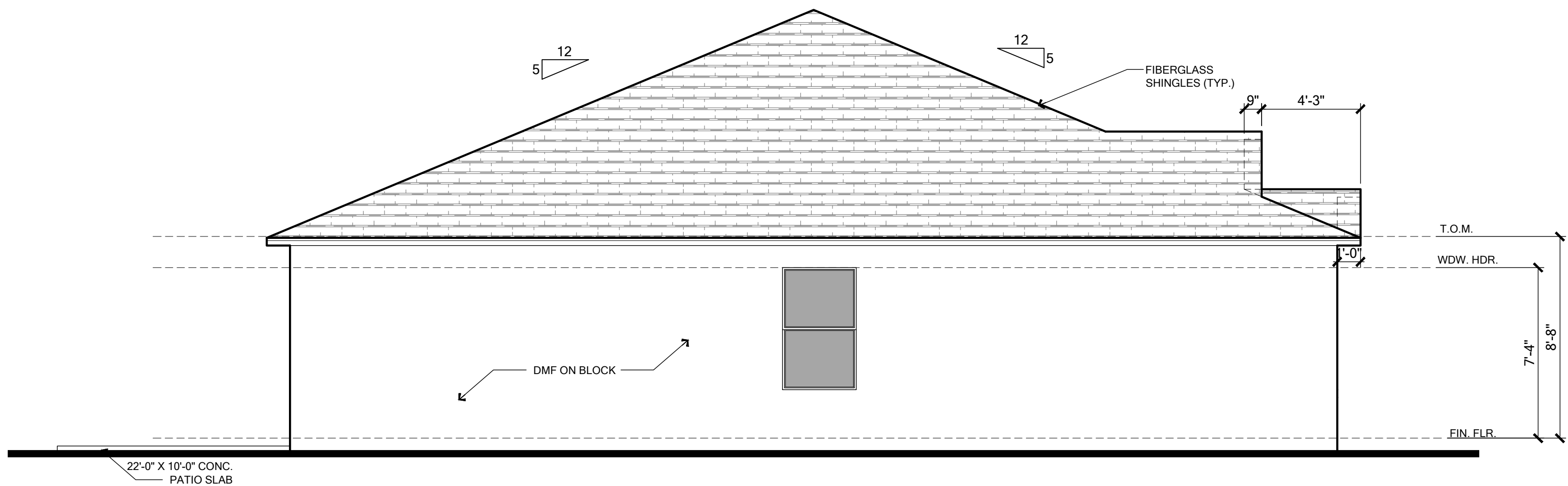
Community:	Forest Cove		Garage Side:	Right
	Plan Name:	Willow		
Reference No.	Lot: 1	Block: 001	Elev - F	
	Address:	TBD Street A Lake City, FL 32024		
Sheet:	24-04830		Job no:	9FC000101
			ESSENTIALS SERIES	

ELEVATIONS



REAR ELEVATION

SCALE: 1/4" = 1'-0"



LEFT ELEVATION

SCALE: 1/4" = 1'-0"

ELEVATION NOTES

EAVE OVERHANG 12" ALUM. FASCIA AND SOFFITS, AND SOFFITS AND GABLE OVERHANG 9" ALUM. FASCIA AND SOFFITS, U.N.O. PLUMB CUT WITH LEVEL RETURNS

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	ATTIC SPACE	1/150 Rule			1/300 Rule		
		SQ. IN. of ventilation required	SQ. FT. of vented soffit needed	LF of vented soffit provided	SQ. IN. of ventilation required	SQ. FT. of vented soffit needed	SQ. IN. of ventilation to be provided by upper ventilators
FIRST FLOOR PLAN	2475	2376.0	159.5	200	1188.0	26.6	594.0

VENTILATION PROVIDED		
	Amt.	Total Ventilation Provided (Sq. Inches)
Off-Ridge Vent (1st Floor)	1	140
Total Ventilation Provided by Upper Ventilators		140
1/150 Rule used; Off-Ridge not part of Calculations		

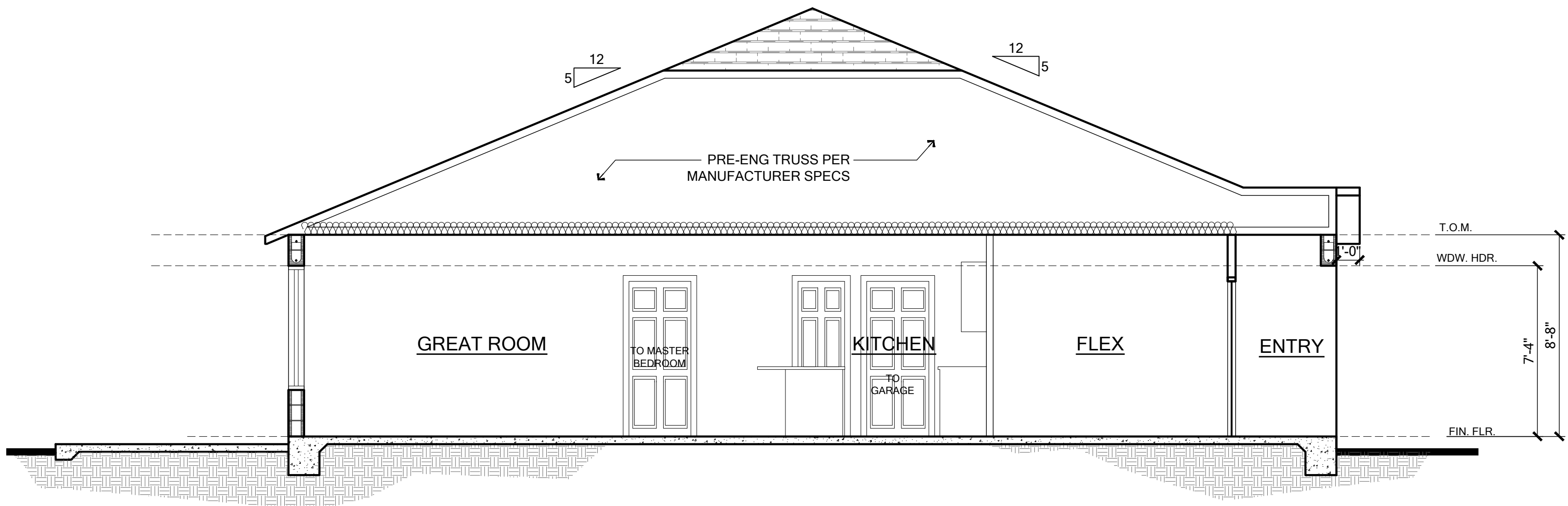
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MARONDA Homes
3999 West First Street
Sanford, FL 32711
(407)302-9871

Community: Forest Cove	Garage Side:	Right
	Plan Name:	Willow
Reference No. 24-04830	Lot:	1
	Address:	TBD Street A Lake City, FL 32024
Sheet: 4.1		

ELEVATIONS



FOR COUNTY
USE ONLY

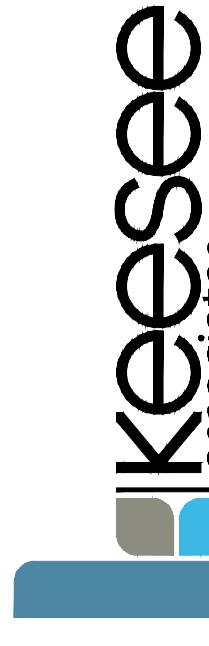
06/28/2024

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CA No. 5161 SCOTT A. ENOMSKI, PE, FL #8750
SCOTT A. ENOMSKI, PE, FL #8750
THIEN BAO DUONG, PE - FL #84452



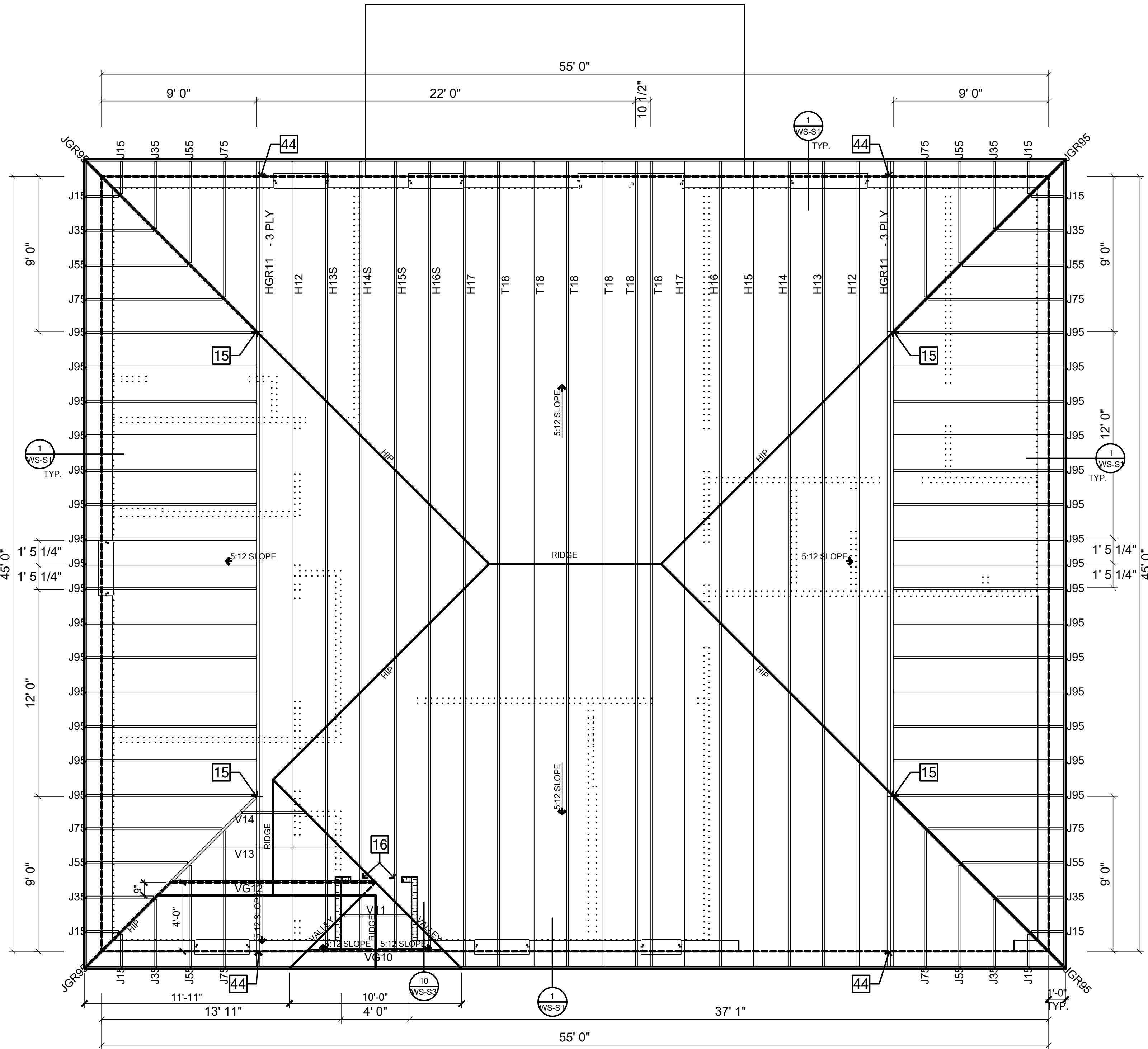
ARCHITECTURE | DESIGN | PLANNING
288 Southall Lane, Midland, FL 32751, Suite 200 | (407) 880-2304
A-22803115

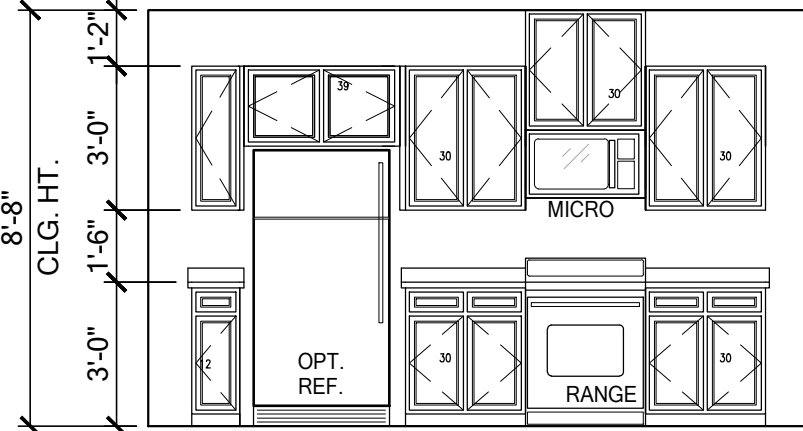




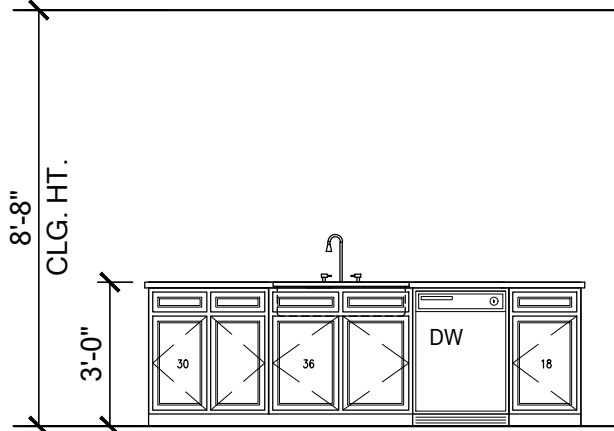
MARONDA
Homes
3999 West First Street
Sanford, FL 32771
(407)302-9871

Community: Forest Cove	Garage Side:	Right
	Plan Name:	Willow
Reference No. Sheet:	Elev - F	001
	Block:	001
Address:	Lot:	1
	Address:	TBD Street A Lake City, FL 32024
Job no:	Job no:	9FC00101
	Job no:	ESSENTIALS SERIES

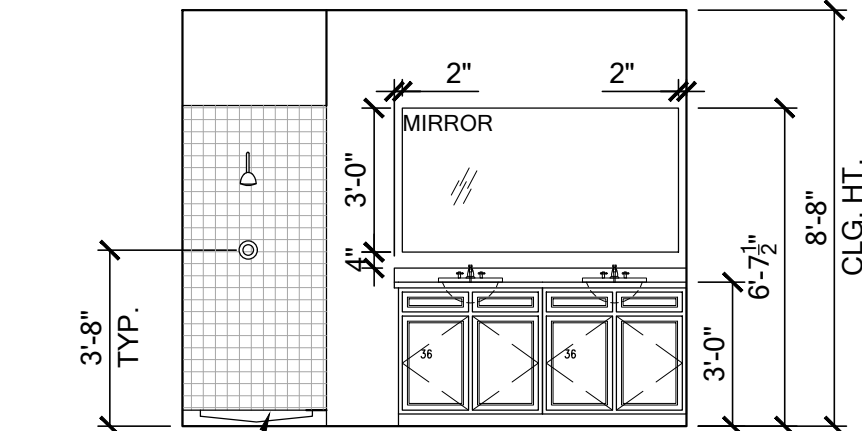




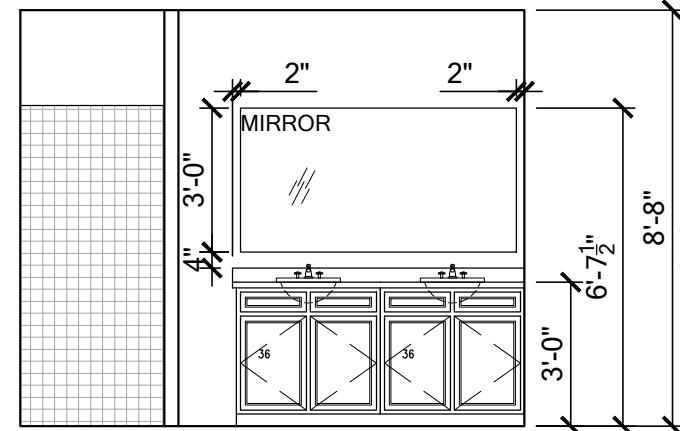
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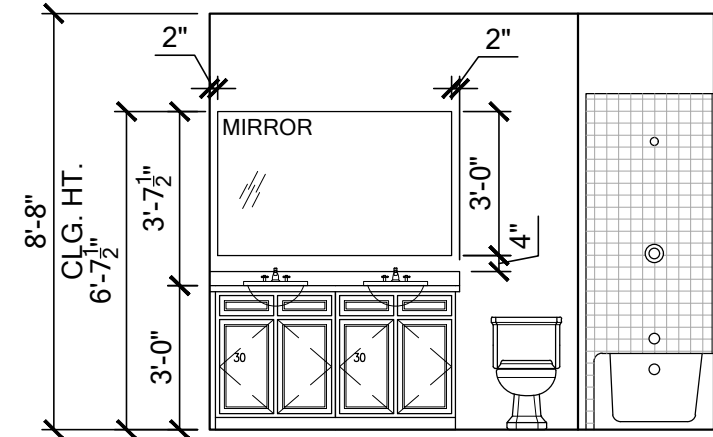
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STANDARD KITCHEN ISLAND



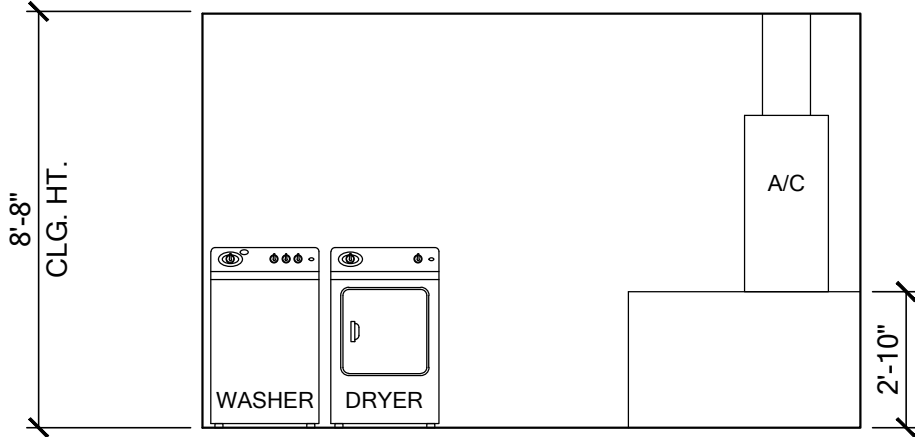
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MASTER BATH



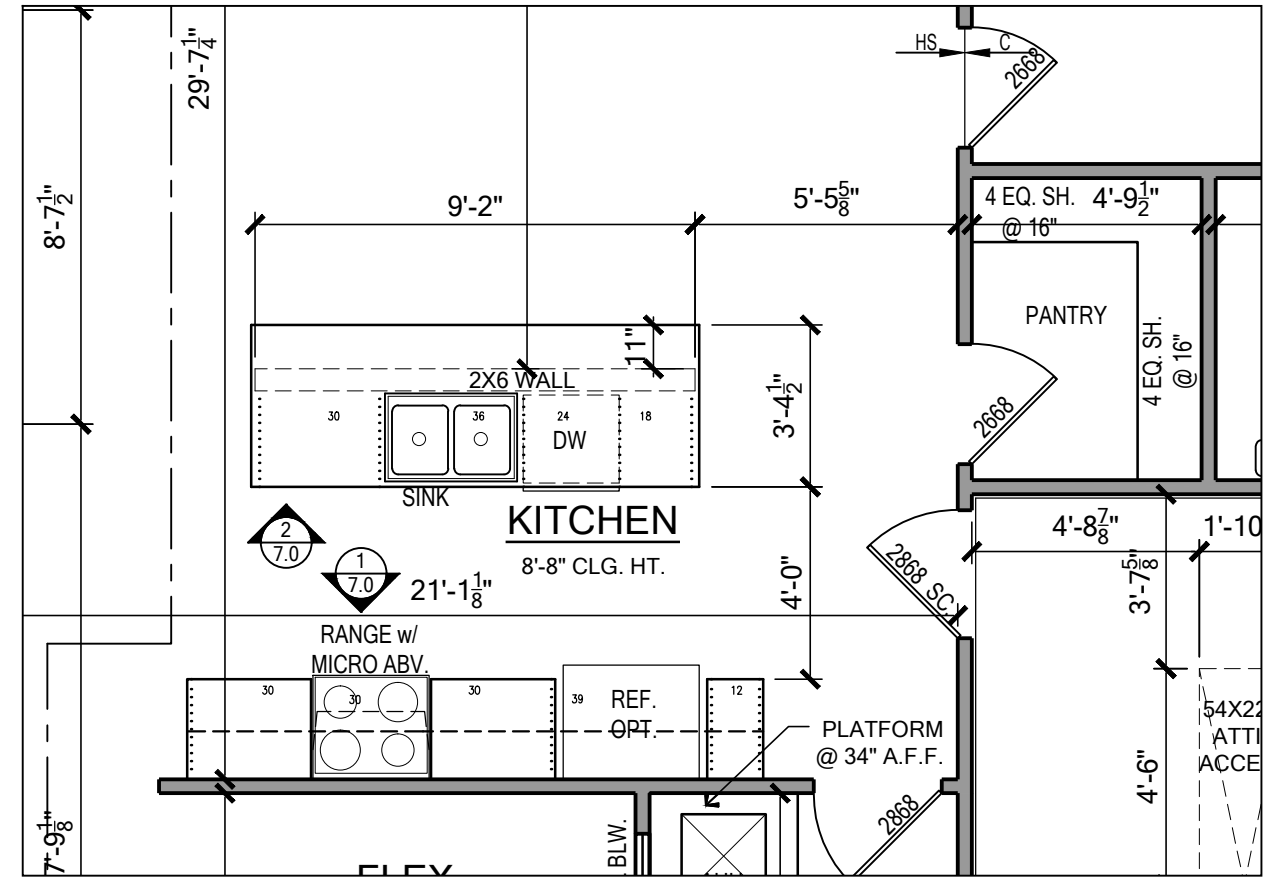
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TILE MASTER SHOWER



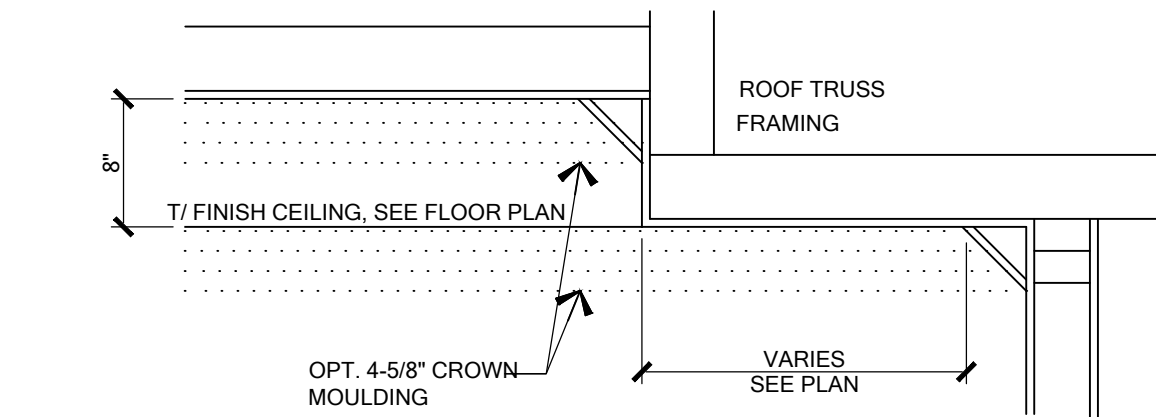
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BATH 2



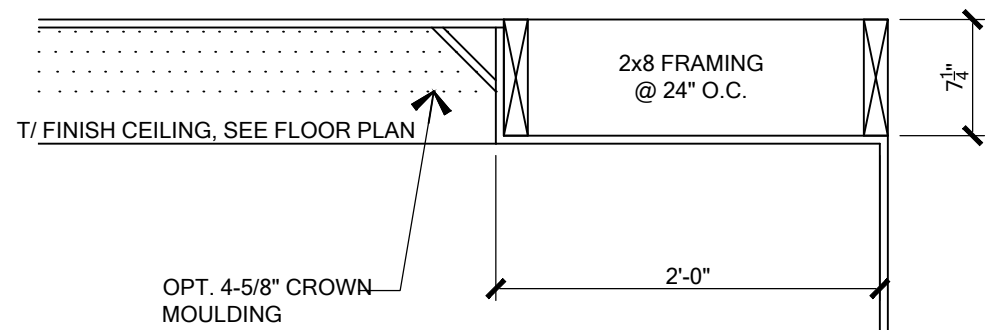
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LAUNDRY RM.



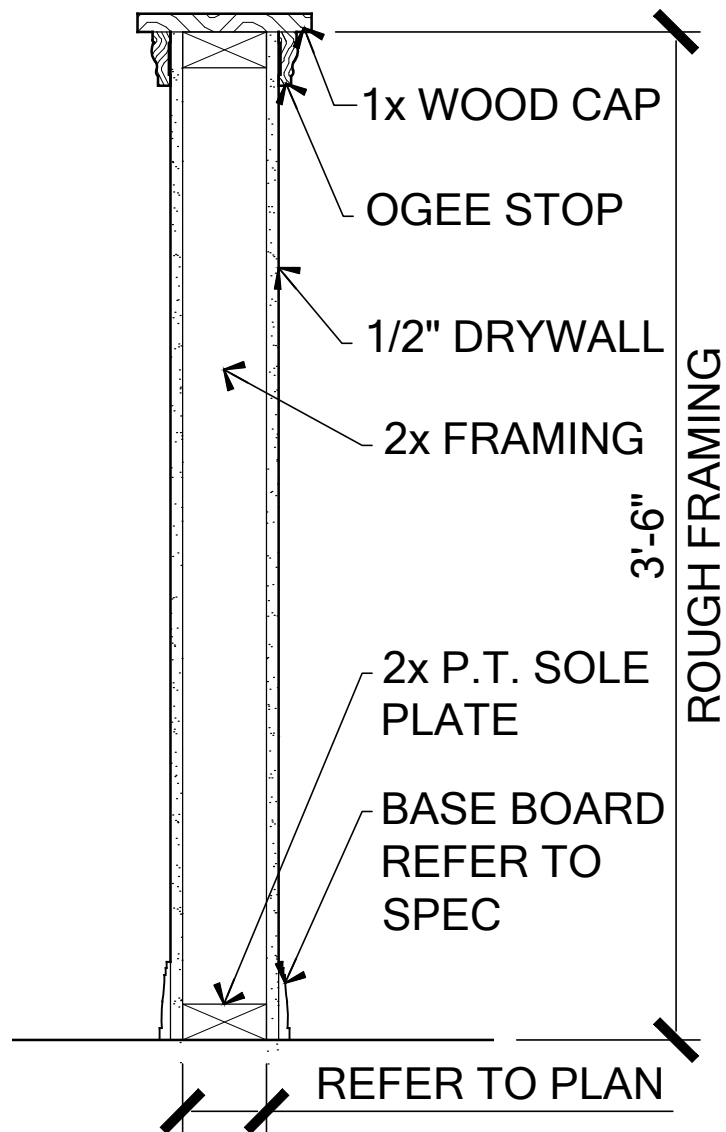
STANDARD KITCHEN
SCALE: 1/4" = 1'-0"



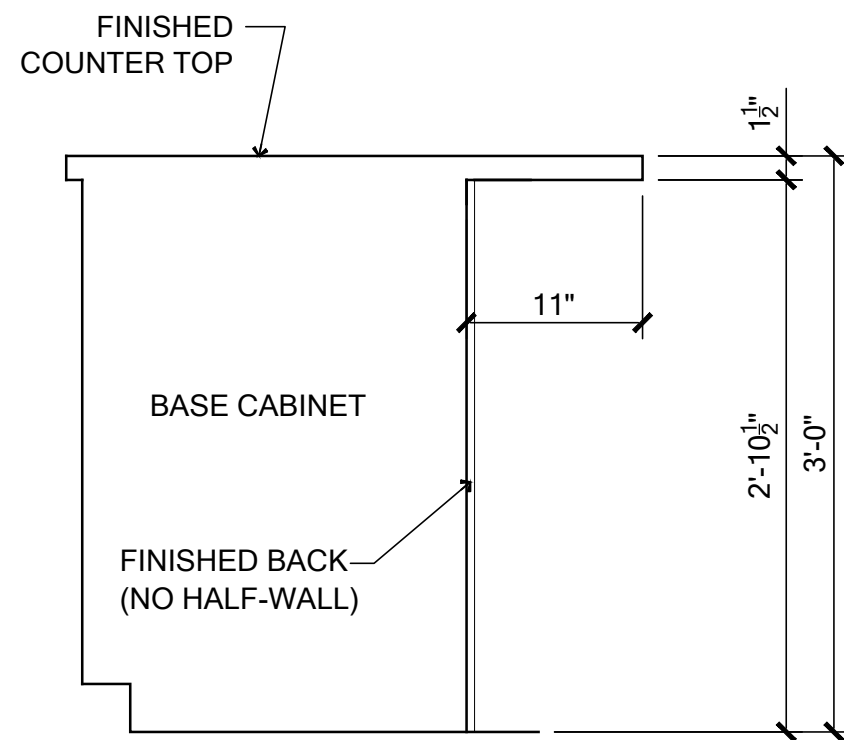
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SCALE: N.T.S.



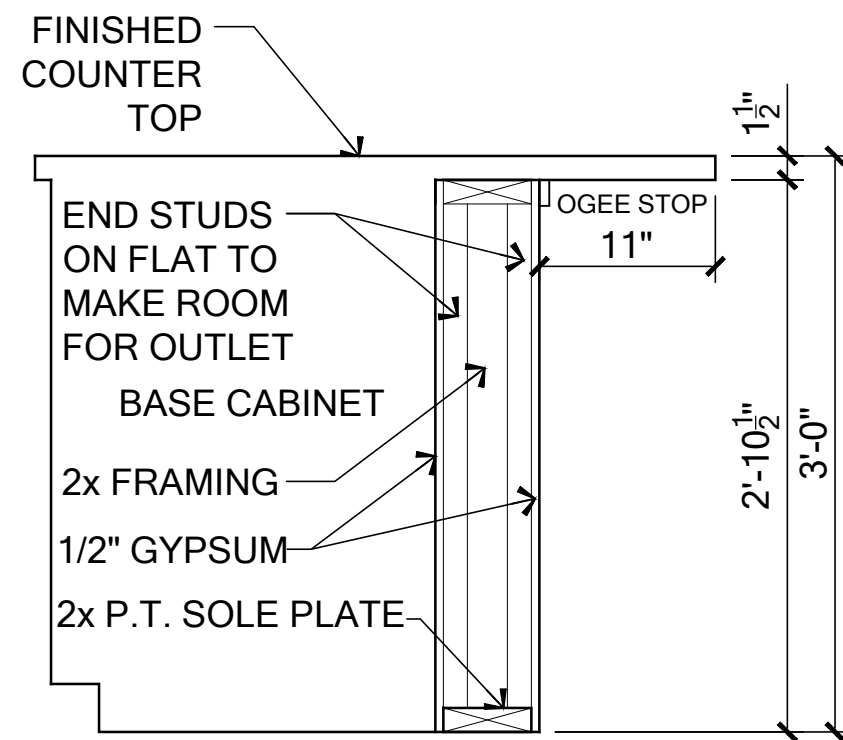
DROP DOWN TRAY CEILING
SCALE: N.T.S.



TYPICAL HALF-WALL
SCALE: 1-1/2" = 1'-0"



FLOW-THRU BAR SECTION
W/ FINISHED BACK
SCALE: 1" = 1'-0"



FLOW-THRU BAR SECTION
W/ HALF-WALL
SCALE: 1" = 1'-0"

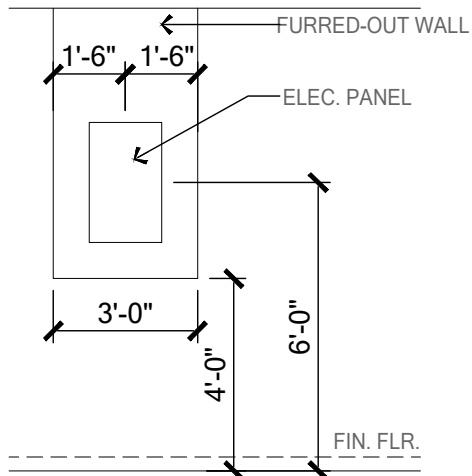
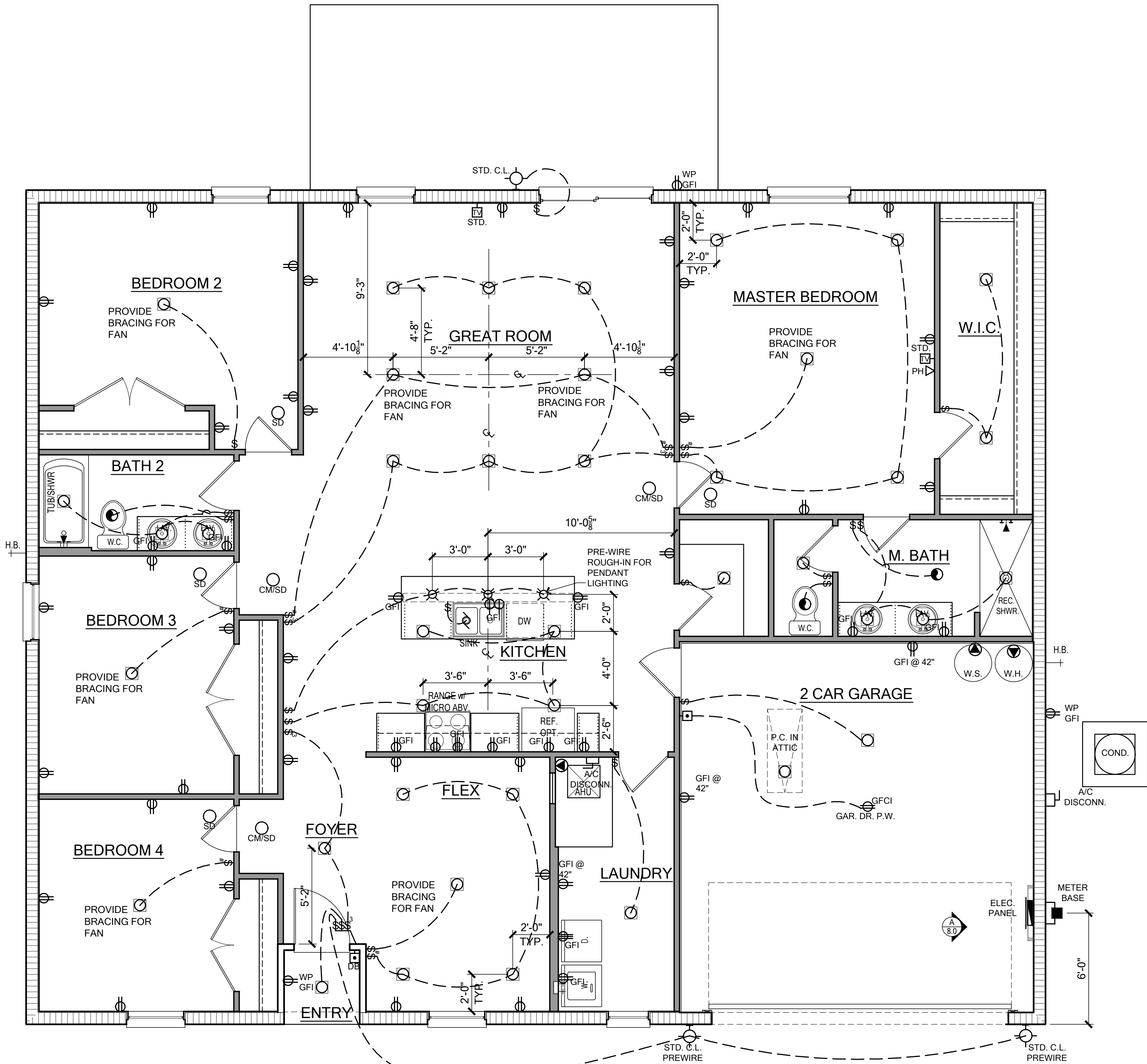
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MARONDA
Homes
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Community:	Forest Cove	Garage Side:	Right
Plan Name:	Willow	Elev - F	
Lot:	1	Block:	001
Address:	TBD Street A Lake City, FL 32024		
Job no:	9FC00101	ESSENTIALS SERIES	
Reference No:	24-04830		
Sheet:	7.0		
INTERIOR ELEV			



PANEL WALL DETAIL
SCALE: 1/4" = 1'-0"

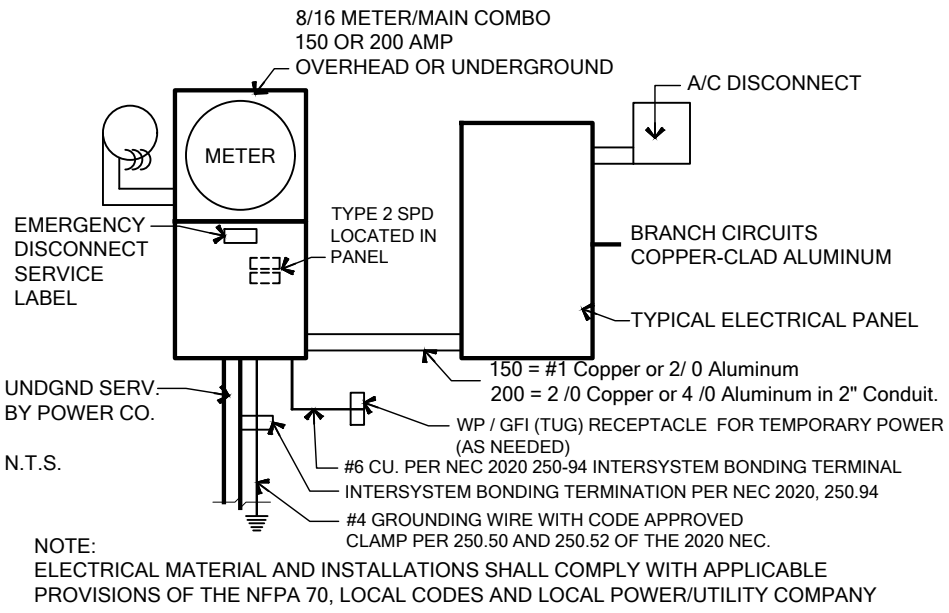
ELECTRICAL LEGEND

POWER SYMBOLS			
	110-115 RECEPTACLE	WP WEATHER PROOF	
	SINGLE POLE RECEPTACLE	VP VAPOR PROOF	
	SWITCHED RECEPTACLE	GFI GROUND FAULT INTERRUPT	
	QUAD RECEPTACLE	A ARC FAULT INTERRUPT	
	CEILING / SOFFIT RECEPTACLE	48 MOUNTING HEIGHT	
	FLOOR RECEPTACLE	GDO GARAGE DOOR OPENER	
	220 RECEPTACLE	PS PULL STRING	
	SMOKE DETECTOR		MOTOR
	CARBON MONOXIDE DETECTOR		BATH FAN
	COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR		BATH FAN AND LIGHT COMBINATION
	ISO ISOLATED CIRCUIT		SINGLE POLE SWITCH
	14/3 WIRE SWITCH		THREE WAY SWITCH
	OPTIONAL CEILING FAN PREWIRE		SPECIAL PURPOSE
	OPTIONAL LIGHT PRE-WIRE		DISCONNECT
	STANDARD CEILING FAN PREWIRE		ELECTRIC PANEL
	STANDARD LIGHT PRE-WIRE		METER BASE

LIGHTING SYMBOLS			
	CEILING MNT LIGHT FIXTURE		2' FLOOR, SINGLE BULB
	WALL MNT LIGHT FIXTURE		4' FLOOR, SINGLE BULB
	WALL WASH FIXTURE		4' FLOOR, DOUBLE BULB
	LED LIGHT		4' FLOOR, WRAP
	BATH FAN AND LIGHT COMBINATION		ROPE LIGHTING
	DOUBLE FLOOD LIGHT		SCONCE LIGHT
	EMERGENCY LIGHT		EXIT LIGHT SIGN

LOW VOLTAGE SYMBOLS	
	SPEAKER
	TV OUTLET
	TELEPHONE
	DOOR CHIME
	PUSH BUTTON / DOOR BELL
	DATA OUTLET
	THERMOSTAT

ELECTRICAL RISER DIAGRAM



- Notes:** unless otherwise noted.
- Electrical outlet heights as measured from finished floor to centered line of the box to be: 16" AFF (general). In a Flood Zone, all electrical equipment to be at or above DFE.
 - Trim plates and devices to be ganged, where possible.
 - Electrical switches to be at 42" centerline above finished floor.
 - Electrical plan is intended for purposes only. All work shall be done in strict accordance with the National Electric Code (NEC), latest edition, by a licensed electrical contractor who shall be responsible for the installation & sizing of all electrical, wiring & accessories.
 - Smoke alarms shall comply with NFPA 72 and Section R314 and shall be listed in accordance with UL 217. Combination smoke and carbon monoxide alarms shall be listed in accordance with UL 217 and UL 2034.
 - Provide AFCI's (Arc-Fault Circuit Interrupters) combination type installed to provide protection of the branch circuits in all dwelling units per NFPA 70 (Current Edition) and the NEC and as defined in UL 1699.
 - Provide Tamper Resistant Receptacles as required by the NFPA 70 (Current Edition).
 - Carbon Monoxide Protection: carbon monoxide alarms or detectors shall be installed in all dwelling units in accordance with FBC R315 and NFPA 70. Such devices shall be listed by the appropriate standard, either ANSI/UL 2034, standard for single and multiple station CO alarms or UL 2075, gas and vapor detector sensor, according to the installation.
 - R315.1.2 Combination Alarms: combination smoke/carbon monoxide alarms shall be listed and labeled by a Nationally Recognized Testing Laboratory.
 - Keep all smoke detectors minimum of 36" from bathroom doors.
 - In new construction, smoke detectors shall be hardwired into an A/C electrical power source and shall be equipped with a monitored battery backup.
 - Bathroom exhaust fans must vent to the exterior of the building, ventilation to attic space and soffits is not acceptable.
 - Chapter 45 Private Swimming Pools - Outdoor swimming pools shall be provided with a barrier complying with R4501.17.1.1 through R4501.17.1.14.
 - Add GFCI protection to receptacles in laundry rooms and utility rooms of dwellings where installed within 6' of the outside edge of a sink. This would include the receptacle installed for a washing machine. Receptacle outlets shall not be required on a wall directly behind a range or sink to fulfill the requirement of an outlet every 24". The width of the sink or range is not to be included in the spacing of the outlets unless the distance from the sink or range is greater than 12" for straight counter tops and 18" for sinks and ranges installed in corner counters.
 - Where more than one smoke alarm is required to be installed within an individual dwelling unit in accordance with section R314.3, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual dwelling unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.
 - For one- and two-family dwelling units, all service conductors shall terminate in disconnecting means having a short-circuit current rating equal to or greater than the available fault current, installed in a readily accessible outdoor location. Each disconnect shall be one of the following:
(1) Service disconnects marked as follows:
EMERGENCY DISCONNECT,
SERVICE DISCONNECT
(2) Meter disconnects installed per 230.82(3) and marked as follows:
EMERGENCY DISCONNECT,
METER DISCONNECT,
NOT SERVICE EQUIPMENT
(3) Other listed disconnect switches or circuit breakers on the supply side of each service disconnect that are suitable for use as service equipment and marked as follows:
EMERGENCY DISCONNECT,
NOT SERVICE EQUIPMENT
Markings shall comply with 110.21(B).
 - All permanently installed luminaires, excluding those in kitchen appliances, shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.



Community:	Forest Cove	Garage Side:	Right
Plan Name:	Willow	Elev - F	
Lot:	1	Block:	001
Address:	TBD Street A		
	Lake City, FL 32024		
Job no	9FC00101		
Reference No	24-04830		
Sheet:			
	8.0		
	ELECTRICAL		

TERMITE SPECIFICATIONS

SECTION R318 PROTECTION AGAINST TERMITES

GIVEN THAT STRUCTURE IS LOCATED IN A VERY HEAVY TERMITE INFESTATION AREA, TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE A PREVENTIVE TREATMENT TO NEW CONSTRUCTION (SEE SECTION 202, REGISTERED TERMITICIDE). UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

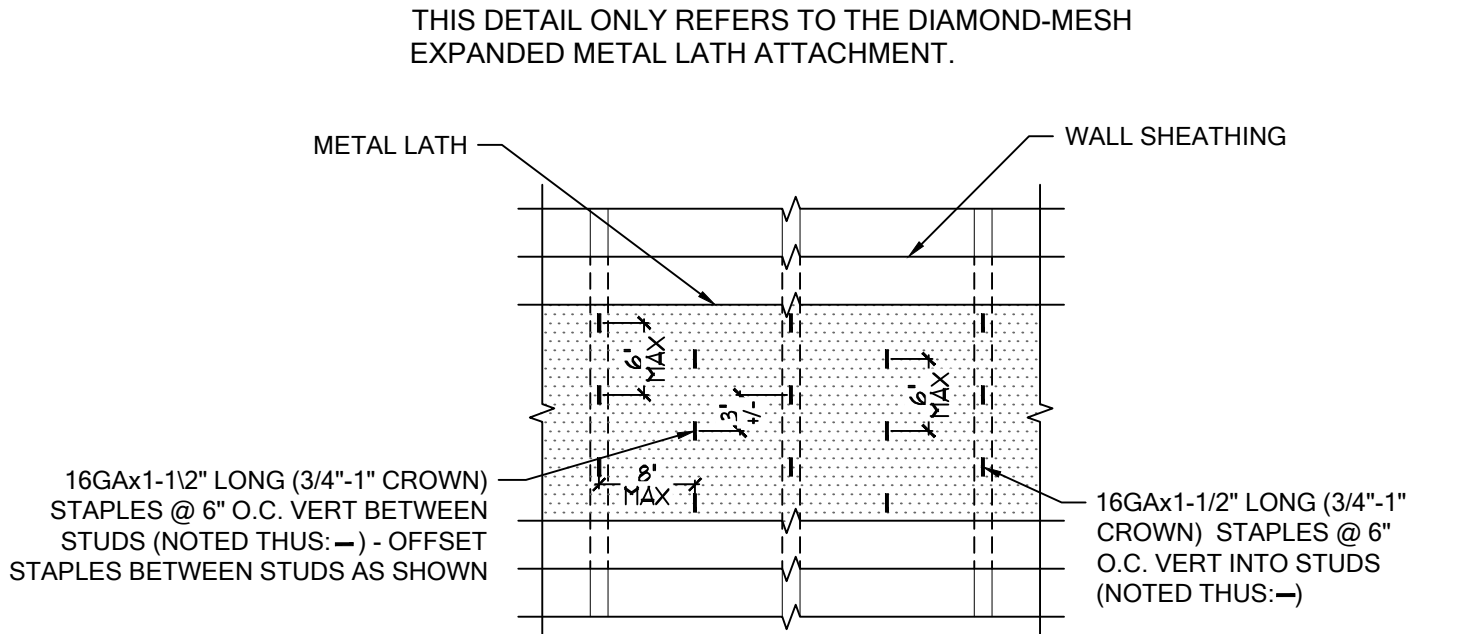
NOTES:

- METHOD OF TREATMENT SHALL BE APPROVED BY THE GOVERNING JURISDICTION "LIQUID BORATE OR BOR-A-COR" PRODUCT METHODS MUST BE DETERMINED AT PERMIT STAGE AND PRODUCT APPROVAL DATA MUST BE ON FILE WITH THE BUILDING DEPARTMENT.
- PRESSURE TREATED LUMBER THAT HAS BEEN CUT OR DRILLED THAT EXPOSES UNTREATED PORTIONS OF WOOD ARE REQUIRED TO BE FIELD TREATED TO PREVENT INSECT INFESTATION.
- OPTIONAL BORATE APPLIED TO ALL FRAME MEMBERS WITHIN 24" A.F.F.

NOTICE TO BUILDER AND ALL SUBCONTRACTORS

It is the intent of the Engineer listed in the titleblock of these documents that these documents be accurate, providing Licensed Professionals clear information. Every attempt has been made to prevent error. The Builder and all subcontractors are required to review all the information contained in these documents, prior to the commencement of any work. The Engineer are not responsible for any plan errors, omissions, or misinterpretations undetected and not reported to the Engineer prior to construction. All construction MUST be in accordance to the information found in these documents. Any questions regarding the information found in these plans should be directed to our Quality Assurance Manager at 321-972-0491 immediately. No backcharges will be considered for reimbursement by the the Engineer without advanced notification and approval by the Engineer. Payments will be made in accordance to the terms of the agreement.

Care and Maintenance: Yearly maintenance and inspections by the builder/homeowner are necessary for the future life of this home. Care must be taken to check windows and doors for caulking, remove leaves and debris off roofs, make sure that water flow is away from the house and have your home repainted every 3 - 5 years to protect the coatings. The designer and engineer of record are not responsible for instances that may occur over the normal life of the home without proper maintenance.



METAL LATH ATTACHMENT DETAIL

REV. 09.24.21 SCALE: 3/4" = 1'-0"
DETAIL EXCEEDS THE REQUIREMENTS FOR FBCR 703.7.1 LATH

GENERAL STRUCTURAL NOTES

CAST IN PLACE REINFORCED CONCRETE

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI (SLABS) 3000 PSI (COLUMNS AND BEAMS), A SLUMP OF 5" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63.
- HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
- HORIZONTAL FOOTING BARS SHALL BE BENT 25° AROUND CORNERS OR CORNER BARS WITH A 25" LAP PROVIDED EA. WAY.
- CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM U.N.O.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064/A 1064M. WWF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6". POLYPROPYLENE FIBERS FOR SLABS ON GRADE TO BE MIN 1.5 LBS OF FIBER PER CUBIC YARD.
- ALL REINFORCING STEEL / STIRRUPS AND TIES SHALL BE NEW DOMESTIC DEFORMED BARS FREE FROM RUST-SCALE & OIL & SHALL MEET ASTM A615, ASTM A706, OR ASTM A996 GRADE 40 U.N.O. REINFORCING FOR FOOTING SHALL BE SUPPORTED ON PRE-CAST CONCRETE PADS, STEEL WIRE OR PLASTIC SUPPORTS, TOP REINFORCING SHALL BE POSITIVELY SUPPORTED BY TEMPORARY STRINGERS. DOWELS FOR COLUMNS & FILLED CELLS SHALL BE SECURED IN PLACE BY USING ADDITIONAL CROSS-REINFORCING TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS PER DETAIL MS05/ 2.0.
- HIGH STRENGTH USP CIA-GEL, 7000-C ANCHORING, EPOXY ADHESIVE BINDER WAS USED IN THE DESIGN OF THIS PRODUCT. IF CONTRACTORS WISH TO USE A DIFFERENT EPOXY, THEY MUST FIRST CONTACT THE ENGINEER OF RECORD FOR WRITTEN APPROVAL.
- WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "F" OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) RESIDENTIAL IS TO BE IMPLEMENTED. F303.4 CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I. THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATE 2500 P.S.I. SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.

MASONRY

- HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90-14, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 2000 PSI (f_m = 2000 PSI)
- MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270-14a.
- COARSE GROUT SHALL CONFORM TO ASTM C476-10 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI SLUMP 9" TO 11". CONTINUOUS MASONRY INSPECTIONS ARE REQUIRED DURING CONSTRUCTION
- GRADE 60 U.N.O. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.
- REINFORCING STEEL SHALL BE LAPPED PER DETAIL MS05/2.0, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM, PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW OF GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS PROHIBITED.
- TEMPORARY BRACING AND SHORING OF WALL TO PROVIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- TYPICAL FILLED CELL REINFORCING SIZE AND SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS AND NO CONCENTRATED LOADS FOR (7) DAYS, PER CODE ACI 318-19.
- CONSOLIDATE GROUT POURS EXCEEDING 12" IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. CONSOLIDATION OR RECONSOLIDATION IS NOT REQUIRED FOR SELF-CONSOLIDATING GROUT. GROUT SHALL FINISH FLUSH WITH TOP OF WALL.

WOOD CONSTRUCTION

- ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, SHEAR WALLS AND MISC. STRUCTURAL WOOD FRAMING MEMBERS, (I.E. BLOCKING OR GABLE END BRACING) SHALL BE EITHER AS SPECIFIED IN PLAN OR IN DETAILS. IF CONFLICTS OCCUR BETWEEN PLAN AND DETAILS, THE STRONGEST MATERIAL SHALL BE USED. AT A MINIMUM, ALL STRUCTURAL FRAMING MEMBERS SHALL BE S.P.F. #2.
- ALL LUMBER SPECIFIED ON DRAWINGS ARE INTENDED FOR DRY USE ONLY (MOISTURE CONTENT 19% OR LESS), U.N.O. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 STUD SHOES, TYP., U.N.O.
- MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND TO SELECT APPROPRIATE CONNECTORS THAT RESIST CORROSION. FOR EXAMPLE, ACQ-C, ACQ-D, CBA-A OR CA-B REQUIRE HOT-DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS. DOT SODIUM BORATE (SBX) DOES NOT.
- ALL EXPOSED WOOD OR WOOD IN CONTACT WITH EARTH OR CONCRETE TO BE PRESSURE TREATED.
- UNTREATED WOOD SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE, OR MASONRY SEAT PLATES SHALL BE PROVIDED AT BEARING LOCATIONS WITHOUT WOODEN TOP PLATES.
- SEE PLAN FOR STUD PACK AND BEAM NAILING PATTERNS.
- ALL ENGINEERING LUMBER TO HAVE THE FOLLOWING MIN VALUES U.N.O.
PARALLAM COLUMNS: 1.8E Fb = 2400 PSI
MICROLAM (LVL) BEAMS: 2.0E Fb= 2600 PSI
GLULAM BEAMS: SP/SP 24F-V5 LAYUP (1.7E Fb = 2400 PSI) MIN.
- SEE PLAN NOTE FOR ADDITIONAL ROOF, WALL, SHEAR WALL AND FLOOR SHEATHING REQUIREMENTS ALONG W/ NAILING INFORMATION OTHERWISE:
ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR OR OSB
FLOOR SHEATHING: 3/4" T&G WOOD DECKING GROUP 1 APA RATED (48/24) SHEATHING OR 3/4" T&G EXDOR MAGNESIUM OXIDE UNDERLAYMENT FLOOR PANELS SHALL FINISH FLUSH TO EXTERIOR WALL FACE
WALL SHEATHING: 7/16" STRUCTURAL 1 OSB (EXPOSURE 1)-OR-15/32" OSB PLYWOOD (C-C/C-D) (EXPOSURE1) MINIMUM OF 1/8" SPACE IS RECOMMENDED BETWEEN PANELS, AT EDGES, AND END JOINTS TO ALLOW FOR EXPANSION. SHEATHING SHALL NOT BE USED AS WEATHER RESISTANCE BARRIER UNLESS SPECIFIED.
- LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED TO WOOD SHEATHING WITH 1-1/2" LONG, 11 GAUGE NAILS HAVING A 7/16" HEAD, OR 1 1/2" LONG, 16 GAUGE STAPLES SPACED IN ACCORDANCE WITH ASTM C1063 OR C1787, OR AS OTHERWISE APPROVED

STRUCTURAL STEEL

- MATERIAL SPECIFICATIONS: WIDE FLANGE SECTIONS: ASTM A992, GRADE 50, Fy=50 KSI TUBE STEEL (HSS): ASTM A500, GRADE B, Fy = 46 KSI PIPE STEEL: ASTM A53, TYPE E OR S, Fy = 35 KSI ALL OTHER STRUCTURAL & MISC. STEEL: A36 Fy=36 KSI STRUCTURAL CONNECTIONS: ALL STRUCTURAL BOLTS TO BE ASTM A325N U.N.O
- STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL REINFORCEMENT SHOP DRAWINGS TO BE PROVIDED TO ENGINEER OF RECORD BEFORE FABRICATION FOR REVIEW AND APPROVAL

UPLIFT CONNECTORS

- UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT OR LATERAL FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE COORDINATE WITH THE TRUSS ENGINEER FOR THE LOCATION OF THESE WALLS. SEE STRUCTURAL PLANS FOR MORE INFO.

GYPSPUM BOARD

- GYPSPUM BOARD MAY BE INSTALLED USING GWB54 NAILS TO SET IN PLACE. FIELD FASTENING SHOULD BE TYPE "W" 1 1/4" DRYWALL SCREWS @ 12" O.C. FOR CEILING AND 1 1/8" DRYWALL SCREWS @ 12" O.C. FOR WALLS. ALL ENDS AND EDGES OF WALLBOARD SHALL OCCUR OVER AND BE SCREWED TO SUPPORTS. MAXIMUM SCREW SPACING FOR WALLS SHALL BE 16" O.C. ALONG SUPPORTS. MAXIMUM SCREW SPACING FOR CEILINGS SHALL BE 12" O.C. ALONG SUPPORTS. MINIMUM SCREW / NAIL DISTANCE FROM EDGE SHALL BE 3/8". THIS SHALL APPLY TO BOTH CEILING AND WALL INSTALLATION. DRYWALL SHIMS SHALL BE USED ONLY WHERE NECESSARY. OPENINGS CUT FOR OUTLETS, SWITCHES, ETC. SHALL BE OF A TOLERANCE THAT CAN BE COVERED ADEQUATELY WITH NORMAL SWITCH PLATES AND COVERS WITHOUT ADDITIONAL TAPING OR CAULKING. DRYWALL SHALL NOT BE INSTALLED WITHOUT PROPER BACKING.

PRE ENGINEERED WOOD TRUSSES

- ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS PER STRUCTURAL PLAN.
- PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD.
- BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS.
- TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FRAMING DESIGN LOADS.
- DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
- PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES. SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

FIELD REPAIR NOTES

- MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED WITH 1/2" DIA. EPOXY ANCHORS w/ 7" EMBEDMENT. USP CIA-GEL 7000 EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS OR USP 1/2" SD WEDGE-BOLT WITH MINIMUM 6" EMBEDMENT. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR STEPS.
- FOR MISSED VERT. DOWELS, DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY (USP HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE) MIXED PER THE MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO THE MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
- FOR MORTAR JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING).
- MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH (1) USP HTWM16 TWIST STRAP W/ (4) 1/4" x 1 3/4" WEDGE-BOLTS OR TAPCONS TO MASONRY AND (8)-10d x 1 1/2" NAILS TO TRUSS FOR UPLIFTS LESS THAN 1225 LBS (USE (2) HTWM16 FOR UPLIFTS LESS THAN 2450#). IF CORNER STRAP IS MISSED CONTRACTOR TO INSTALL (2) USP HGAM10KT W/ (4) 1/4" x 1 1/2" WS15 WOOD SCREWS AND (4) 1/4" x 1 3/4" WEDGE-BOLTS ONE EACH SIDE OF TRUSS.
- NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW WITHOUT APPROVAL FROM EOR. IF GIRDER TRUSS CONNECTIONS ARE MISSED, CONTACT THE EOR FOR SUBSTITUTION.
- IF MISSED, MSTAM36 OR MSTCM40 STRAP IS MISSED FOR 2ND FLOOR JAMB STUD CONNECTION, CONTRACTOR MAY INSTALL USP HTT5 W/ (28) 16d x 2 1/2" NAILS AND 5/8" ANCHOR BOLT SET IN USP HIGH STRENGTH EPOXY W/ MIN 6" EMBEDMENT AND MIN 3" EDGE DISTANCE. CONTACT EOR IF STRAPS ARE MISSED UNDER GIRDER JAMB STUD LOCATIONS.
- MISSED ROOF TIE DOWNS MAY BE SUBSTITUTED WITH (1) USP RT16A W/ (8) 8d x 1 1/2" NAILS AND (4) 3/16" DIA. X 1 3/4" TAPCONS FOR UPLIFTS LESS THAN 1380#.

STRUCTURAL DESIGN CRITERIA

CODE CRITERIA

- FLORIDA BUILDING CODE 8TH EDITION (2023) RESIDENTIAL
- FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023)
- FLORIDA BUILDING CODE ACCESSIBILITY 8TH EDITION (2023) RESIDENTIAL
- NFPA 70-20, NATIONAL ELECTRICAL CODES (NEC 2020)
- BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - (ACI 318-19)
- SPECIFICATIONS FOR STRUCTURAL CONCRETE - (ACI 301-20)
- BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - (ACI 530-13)
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - 2018 EDITION
- WOOD FRAMED CONSTRUCTION MANUAL 2018 EDITION
- APA PLYWOOD DESIGN SPECIFICATION E30-19
- AMERICAN SOCIETY OF CIVIL ENGINEERS: ASCE/SEI 7-22
- ALUMINUM DESIGN MANUAL - AAF-20 (AA ADM-2020)

Code references are summaries of code sections. See FBCR (Current Version) for complete information.

Scan QR Code for the complete FBCR



GENERAL ROOF LOADING

	SHINGLE ROOF (PSF)	METAL ROOF (PSF)	TILE ROOF (PSF)	HEAVY ROOF (PSF)
TOP CHORD LL	16	20	20	20
TOP CHORD DL	7	10	15	25
BOTTOM CHORD LL*	0	0	0	0
BOTTOM CHORD DL	10	10	10	10
TOTAL (PSF)	33	40	45	55

BOTTOM CHORD LL (OPT)				
ATTICS W/ LIMITED STORAGE	20			
ATTICS W/ HEAVY STORAGE	50			
* ATTICS W/ NO STORAGE (NON-CONCURRENT)	10			

NOTE: LL REDUCTIONS ARE ALLOWED PER CODE BUT ONLY WITH WRITTEN APPROVAL FROM EOR OR INDICATED ON PLAN

GENERAL FLOOR LOADING

	40 (PSF)	COMMENTS:
TOP CHORD LL	40 (PSF)	
TOP CHORD DL	10 (PSF)	
BOTTOM CHORD LL	0 (PSF)	
BOTTOM CHORD DL	5 (PSF)	

SPECIAL FLOOR LOADING

GAME ROOM	60(PSF)	LIBRARY READING ROOMS	60(PSF)
BALCONIES/DECKS	40(PSF)	LIBRARY STACK ROOMS	150(PSF)
LIGHT STORAGE:	100(PSF)	NON-SLEEPING ROOMS	40(PSF)
GUARDRAILS	125(PSF)	SLEEPING ROOMS	30(PSF)
HANDRAILS(d)	200(LBS)(h,i)	HABITABLE ATTICS SERVED	
GUARDRAIL IN-FILL COMP.(i)	200(LBS)(h)	w/ FIXED STAIRS	30(PSF)
STAIRS(c)	50(LBS)(i)	PASSENGER VEH. GAR.	50(PSF) 2000(LBS)
	40 (PSF) 300(LBS)		

- COMMENTS:
- (PSF) = UNIFORM LOADS
(LBS) = CONCENTRATED LOADS
- c. INDIVIDUAL STAIR TREADS SHALL BE CAPABLE OF SUPPORTING THE UNIFORMLY DISTRIBUTED LIVE LOAD OR A 300-POUND CONCENTRATED LOAD APPLIED ON AN AREA OF 2 INCHES BY 2 INCHES, WHICHEVER PRODUCES THE GREATER STRESSES.
- d. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP, FOR A GUARD NOT REQUIRED TO SERVE AS A HANDRAIL, THE LOAD NEED NOT BE APPLIED TO THE TOP ELEMENT OF THE GUARD IN A DIRECTION PARALLEL TO SUCH ELEMENT.
- f. BALUSTERS AND PANELS/FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA EQUAL TO 1 SQ. FT.
- h. GLAZING USED IN HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED WITH A LOAD ADJUSTMENT FACTOR OF 4. THE LOAD ADJUSTMENT FACTOR SHALL BE APPLIED TO EACH OF THE CONCENTRATED LOADS APPLIED TO THE TOP OF THE RAIL, AND TO THE LOAD ON THE IN-FILL COMPONENTS. THESE LOADS SHALL BE DETERMINED INDEPENDENT OF ONE ANOTHER, AND LOADS ARE ASSUMED NOT TO OCCUR WITH ANY OTHER LIVE LOAD.
- i. WHERE THE TOP OF A GUARD SYSTEM IS NOT REQUIRED TO SERVE AS A HANDRAIL, THE SINGLE CONCENTRATED LOAD SHALL BE APPLIED AT ANY POINT ALONG THE TOP, IN THE VERTICAL DOWNWARD DIRECTION AND IN THE HORIZONTAL DIRECTION AWAY FROM THE WALKING SURFACE. WHERE THE TOP OF A GUARD IS REQUIRED TO SERVE AS THE HANDRAIL, A SINGLE CONCENTRATED LOAD SHALL BE APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. CONCENTRATED LOAD SHALL NOT BE APPLIED CONCURRENTLY.

DEFLECTION CRITERIA

	LL/240	TL/180	COMMENTS:
ROOF TRUSSES*	LL/180	TL/120	
ROOF RAFTERS	LL/360	TL/240	
ROOF RAFTERS (W/O CLG.)	LL/360	TL/240	
FLOOR TRUSSES/ BEAMS **	LL/360	TL/240	
FLOOR JOIST***	LL/480	TL/240	

*TL MAX 1 1/4" UP TO 40FT SPAN
**TL MAX 3/4"
*** TL MAX 1/2"

WIND LOADING CRITERIA 140-B

WIND SPEED (ULTIMATE)	140 MPH
WIND SPEED (ALLOWABLE)	108.0 MPH
EXPOSURE CATEGORY	B
BUILDING CATEGORY	II
BUILDING TYPE	V
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

NOTE: MEAN ROOF HEIGHT FOR TYPICAL SINGLE STORY HOME IS 15FT, AND FOR 2 STORY HOME IS 30FT

ASCE 7-22 WALL DESIGN ALLOWABLE COMPONENTS AND CLADDING WIND PRESSURES AND SUCTIONS FOR MEAN ROOF HEIGHT ≤ 30 ft

GENERAL PRESSURE NOTES

- NOTES:
- MULTIPLY BY 1.67 TO GET ULTIMATE WIND PRESSURES.
 - "z" = END ZONE IS ONLY WIN 4'-0" OF ALL EXTERIOR BUILDING CORNERS.
- * INDICATED PRESSURES CAN BE INTERPOLATED FOR OTHER DOOR SIZES, OTHERWISE USE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.

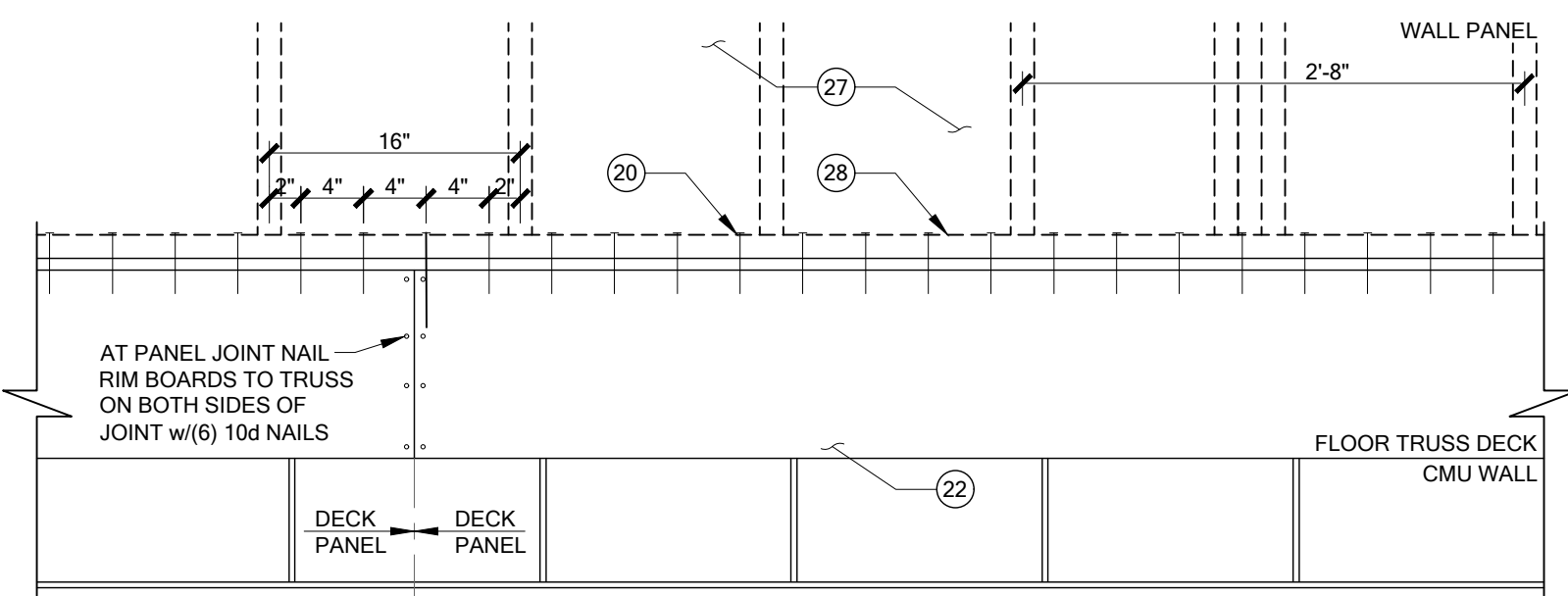
DESIGNATED AREAS WHERE THE ULTIMATE WIND SPEED IS 140 MPH OR GREATER, CONTRACTOR TO PROVIDE ADDITIONAL INFORMATION AS REQUIRED FOR PERMITTING TO INCLUDE IMPACT GLAZING, SHUTTERS, OR WOOD STRUCTURE PANELS PER THE FBCR R301.2.1.2 PROTECTION OF OPENINGS.

EXPOSURE [D], DESIGNATED AREAS WHERE THE ULTIMATE WIND SPEED IS 130 MPH OR GREATER AND IS WITHIN (1) ONE MILE OF THE MEAN HIGH WATER LINE WHERE AN EXPOSURE [D] CONDITION EXISTS UPWIND IS CONSIDERED TO BE IN THE WIND-BOURNE DEBRIS AREA. CONTRACTOR TO PROVIDE ADDITIONAL INFORMATION AS REQUIRED FOR PERMITTING TO INCLUDE IMPACT GLAZING, SHUTTERS, OR WOOD STRUCTURE PANELS PER THE FBCR R301.2.1.2 PROTECTION OF OPENINGS.

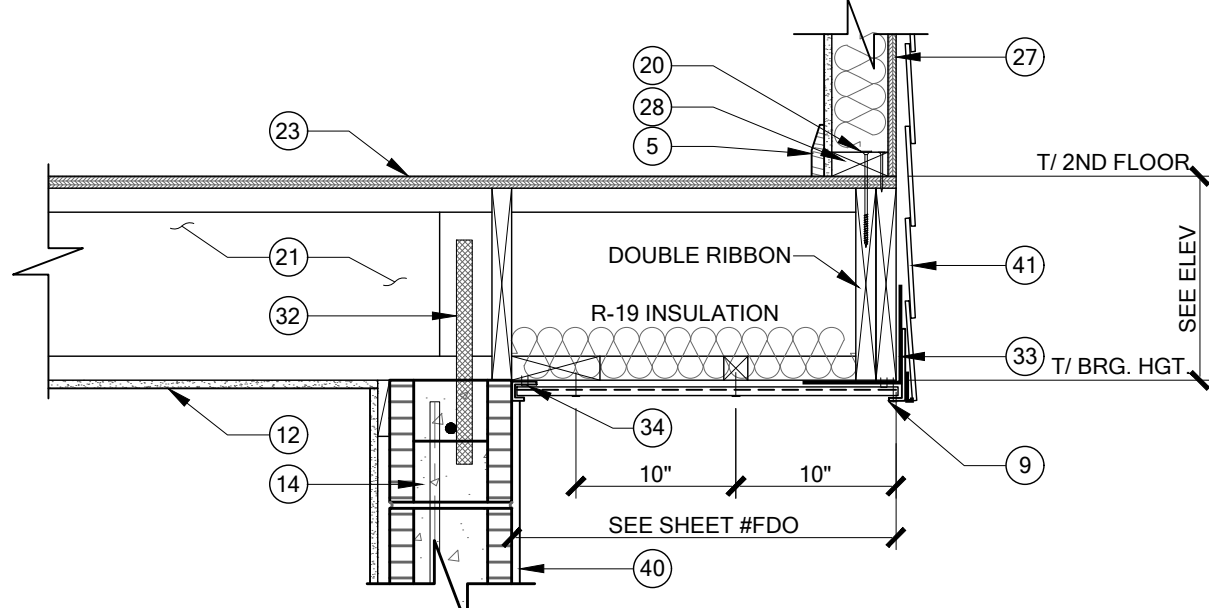
To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.



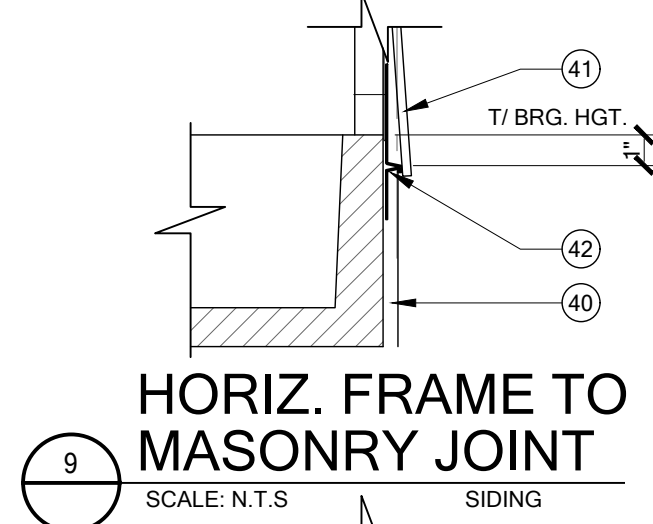
Community: Forest Cove	Garage Side: Right	ESSENTIALS SERIES
Plan Name: Willow	Elev - F	
Block: 001	Lot: 1	
Address: TBD Street A	Lake City, FL 32024	
Reference No. Sheet: 24-04830	Job No. 9FC00101	
SN		
STRUCT NOTES		



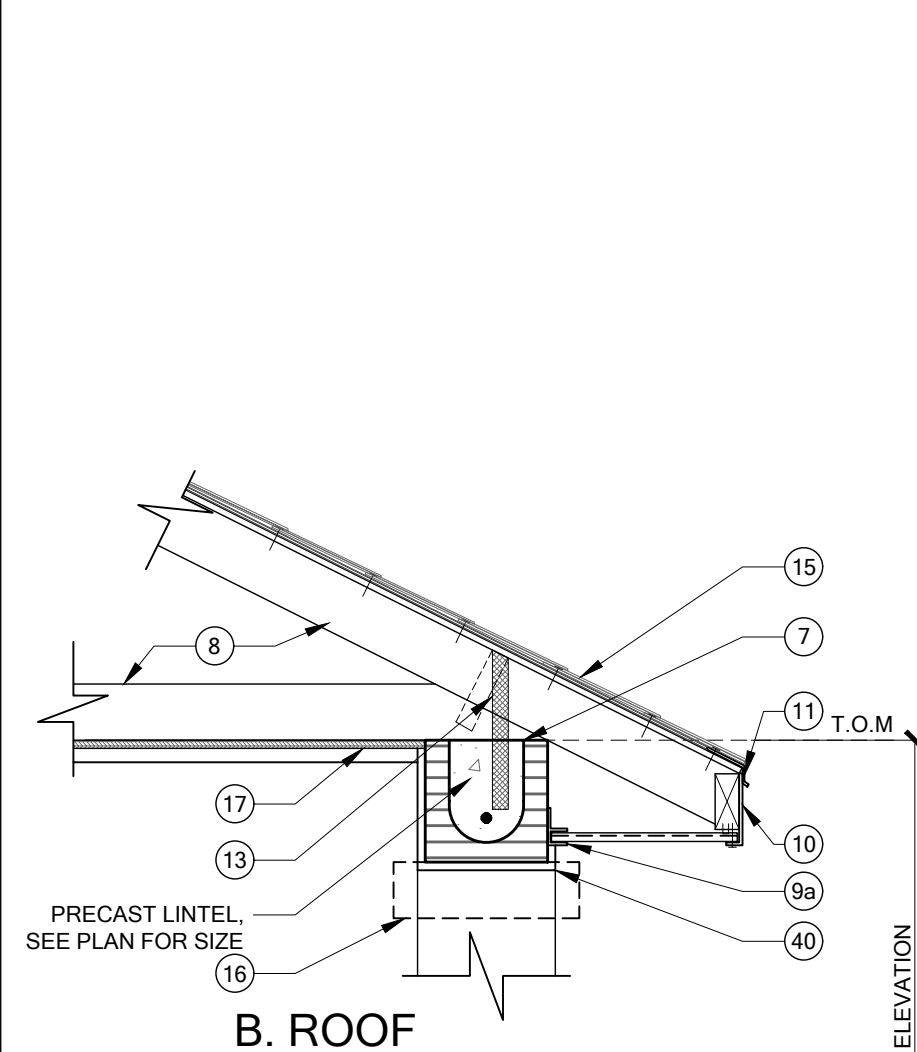
7 PARTIAL FLOOR TRUSS ELEVATION
SCALE: N.T.S



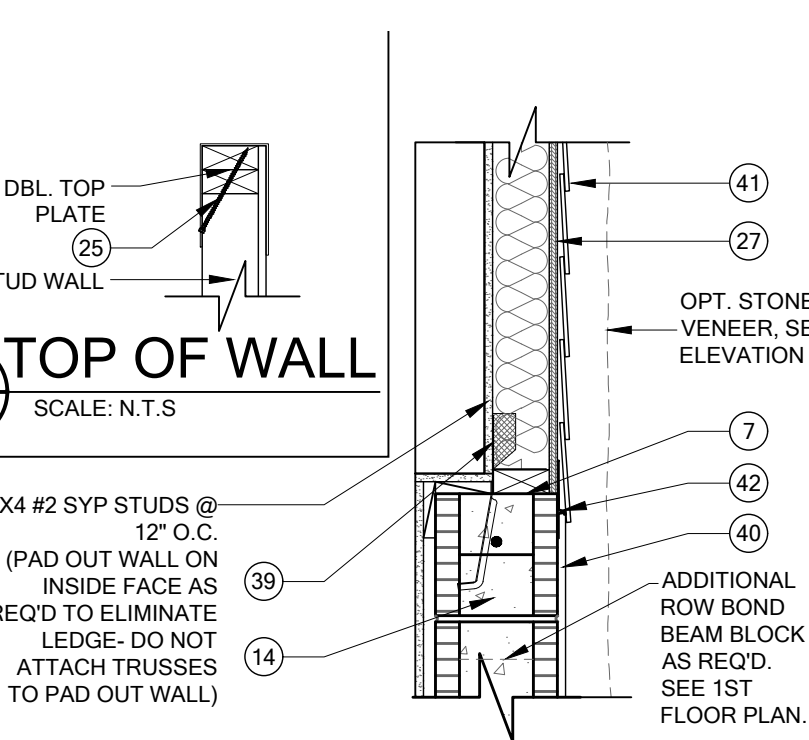
6 PARTIAL SECTION - FLOOR OVERHANG
SCALE: N.T.S



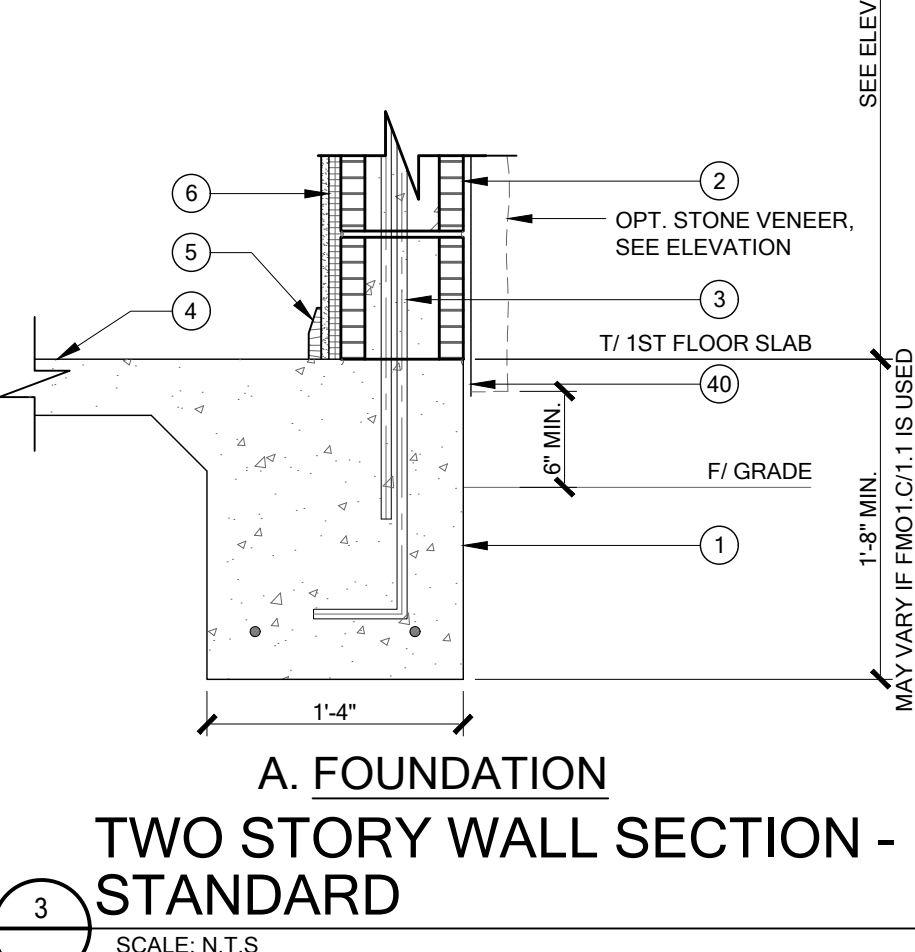
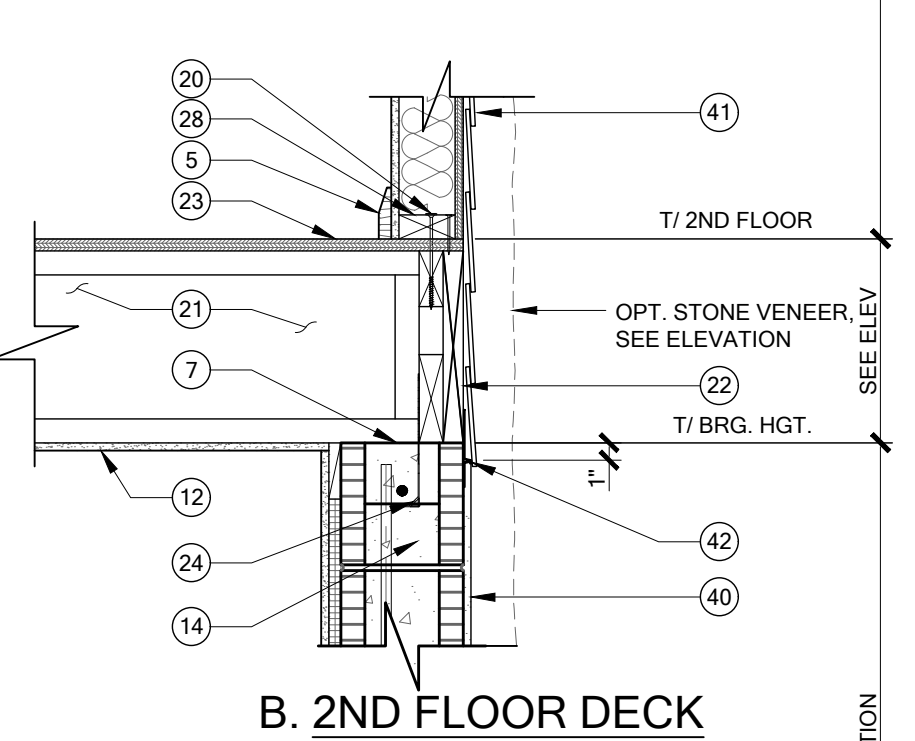
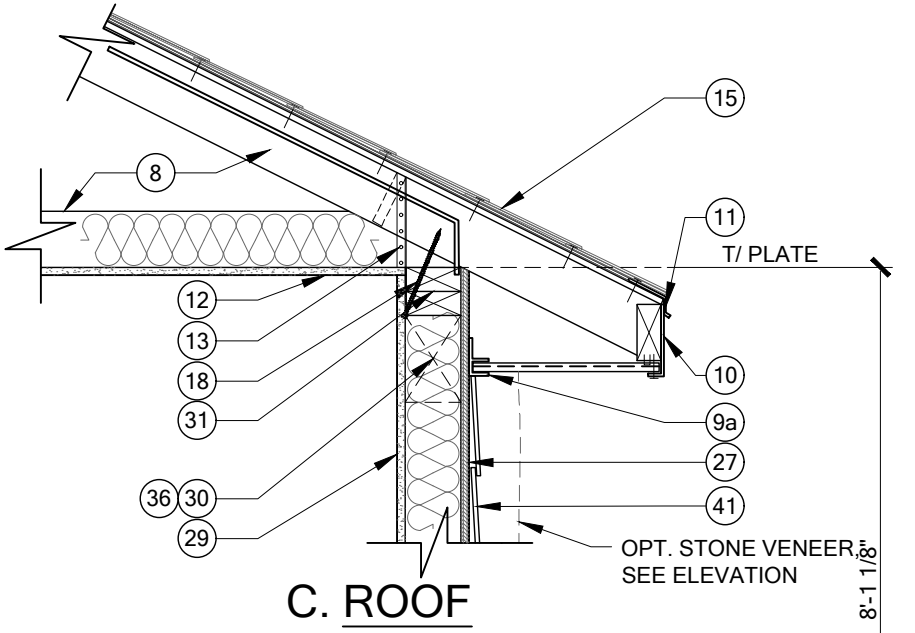
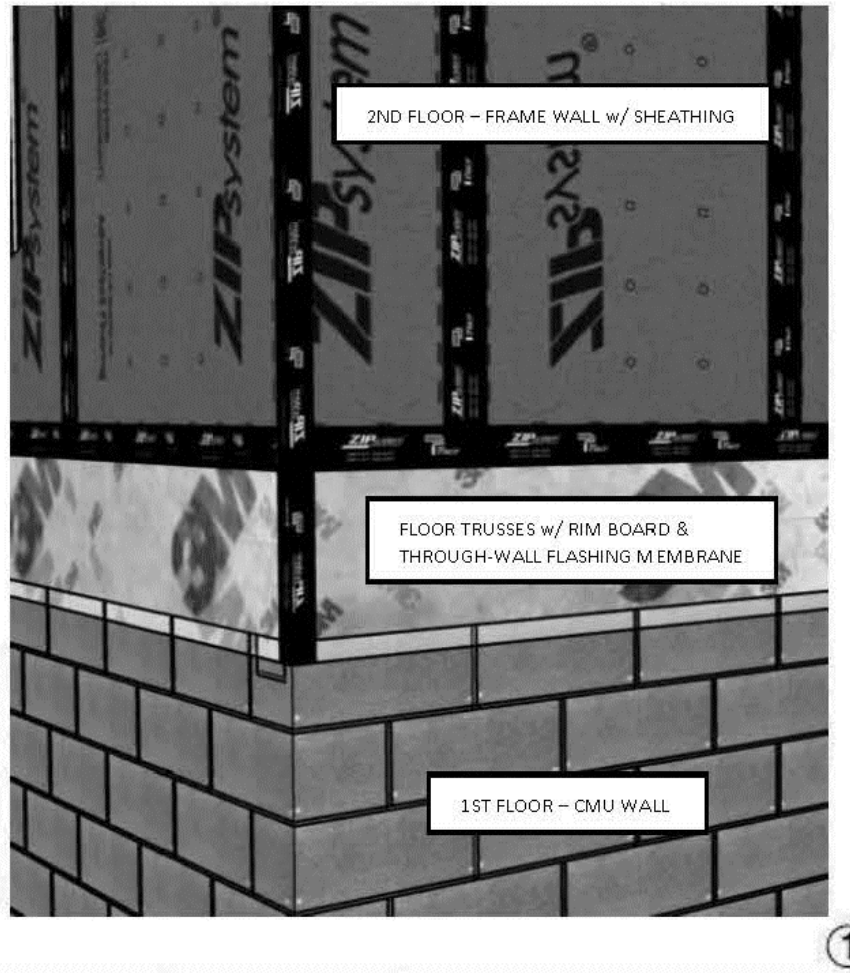
9 HORIZ. FRAME TO MASONRY JOINT
SCALE: N.T.S



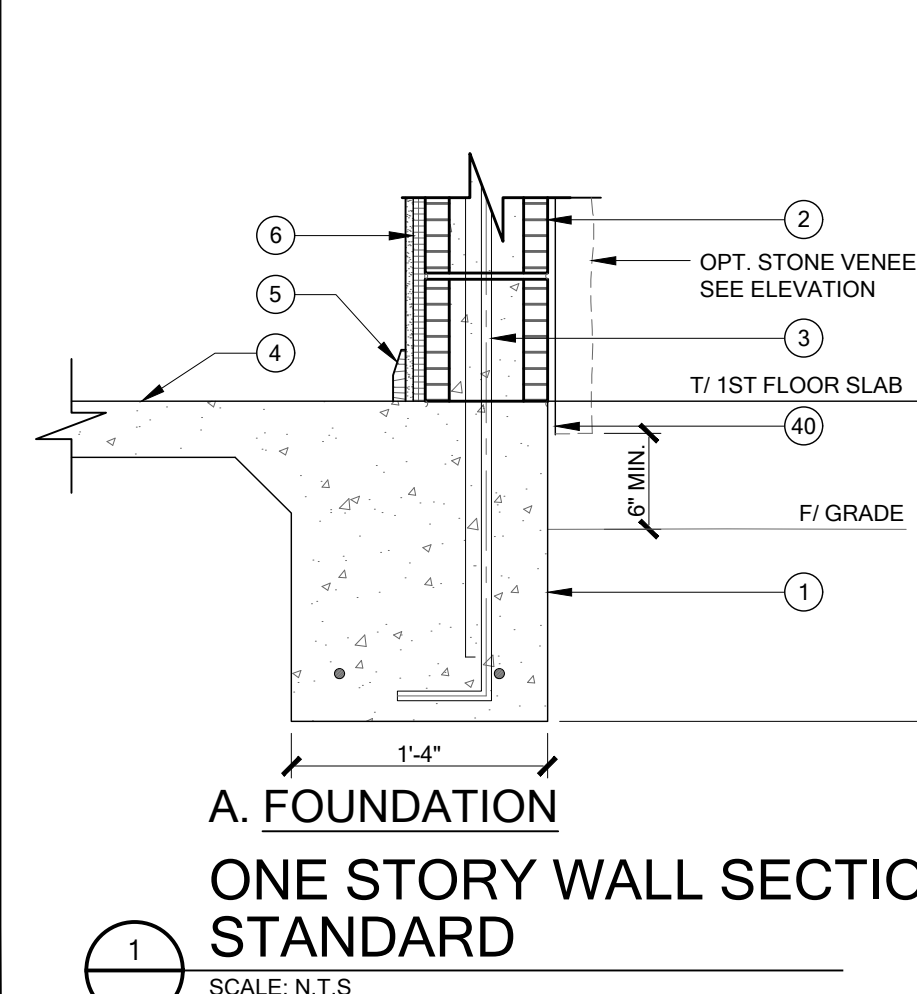
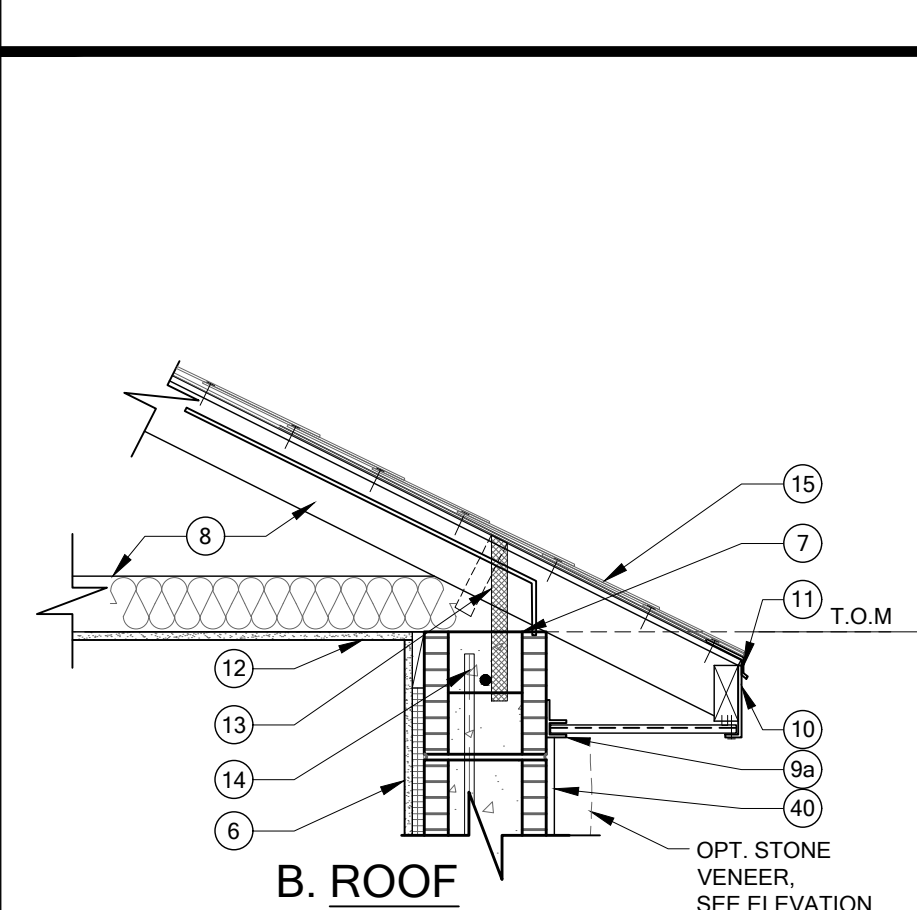
2 B. ROOF
SCALE: N.T.S



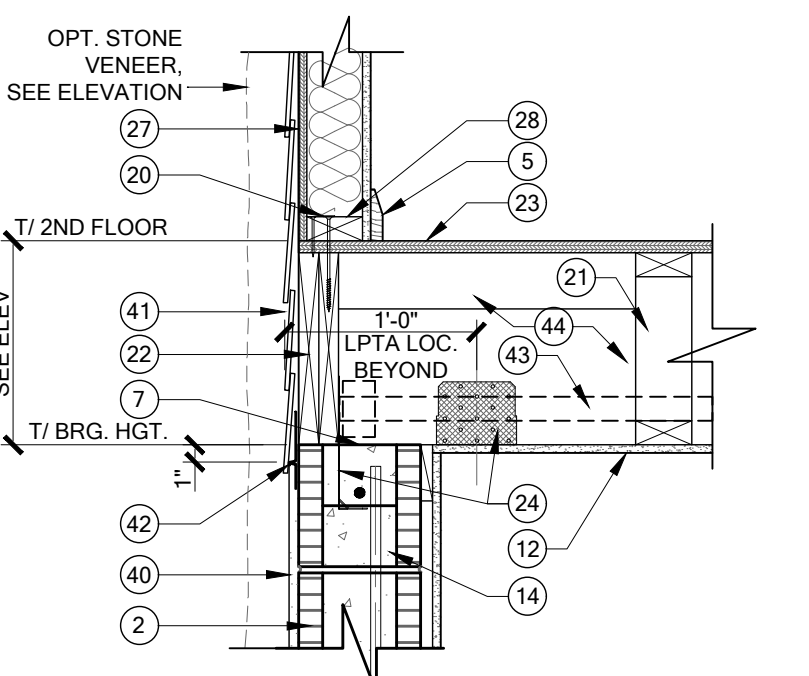
4B TOP OF WALL
SCALE: N.T.S



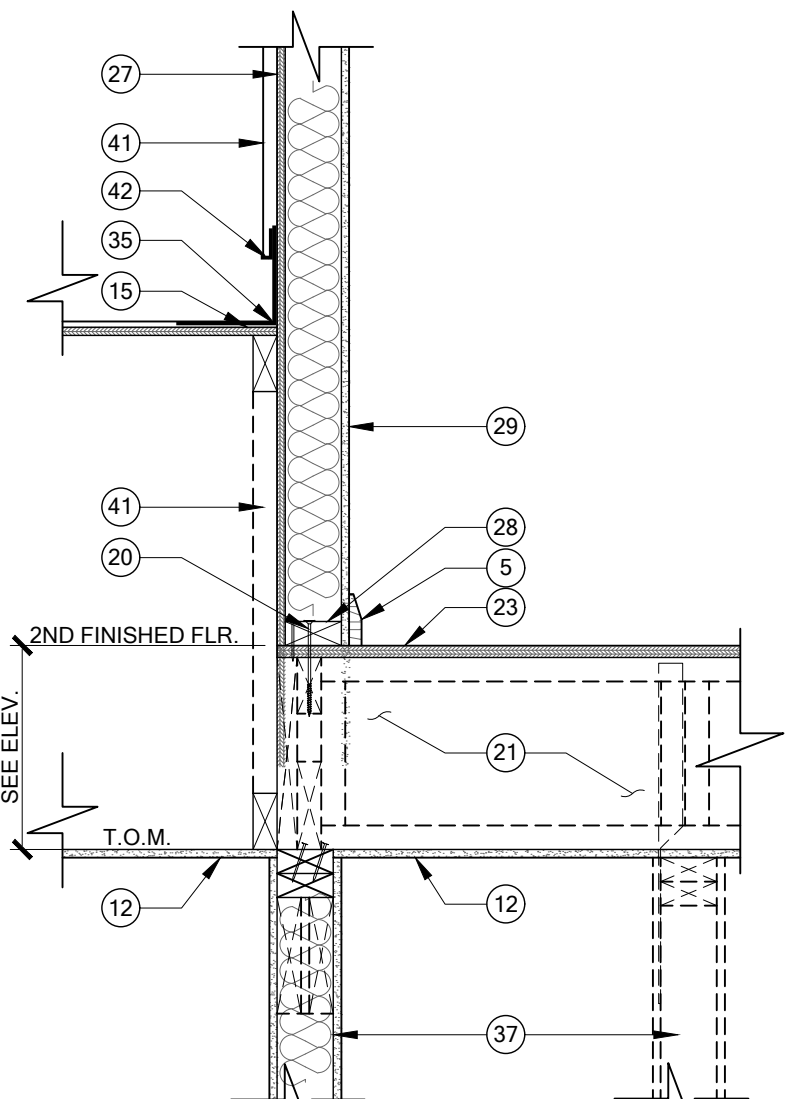
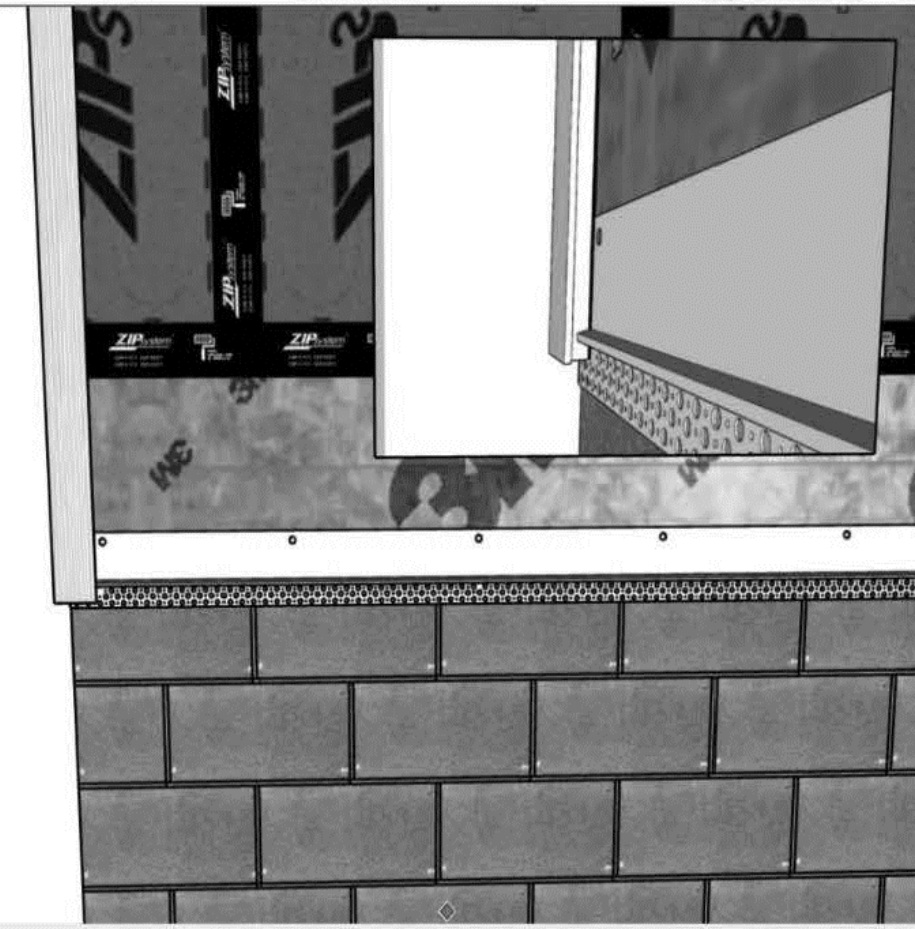
3 A. FOUNDATION
SCALE: N.T.S



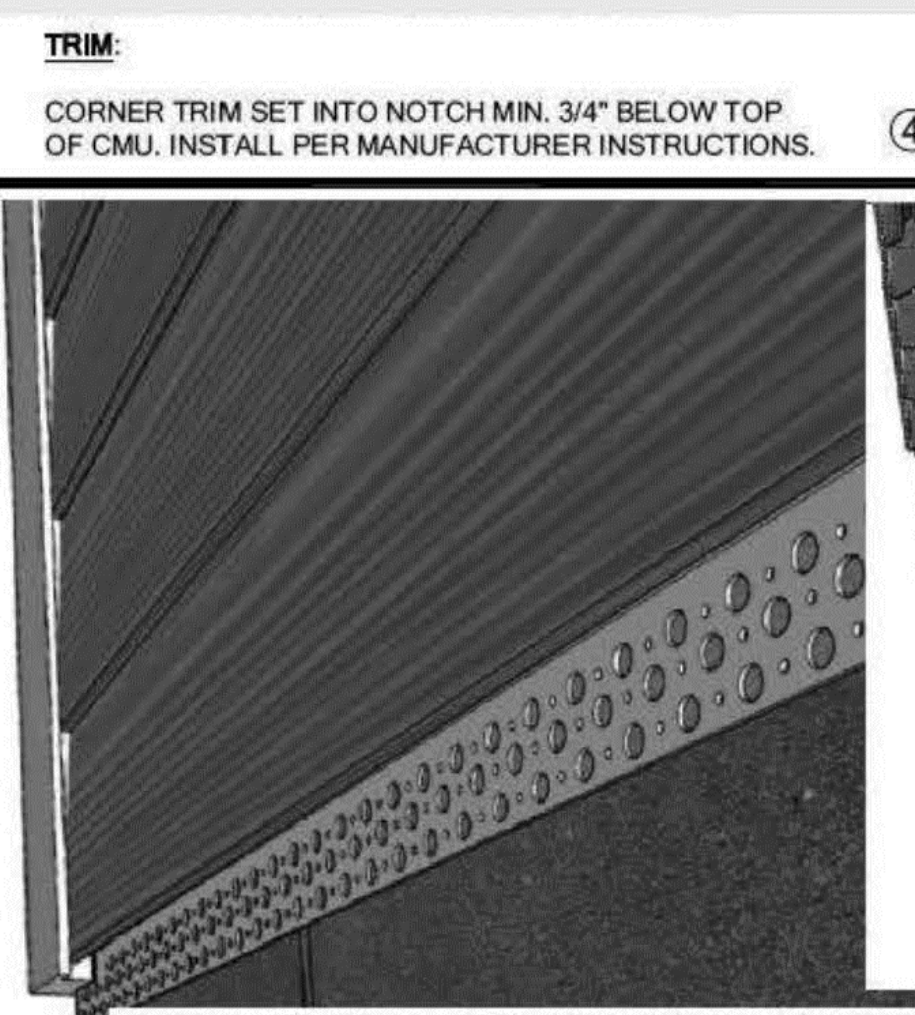
1 A. FOUNDATION
SCALE: N.T.S



5 PARTIAL SECTION - SIDE WALL
SCALE: N.T.S



8 PARTIAL SECTION - FLOOR TRUSS TO ROOF
SCALE: N.T.S



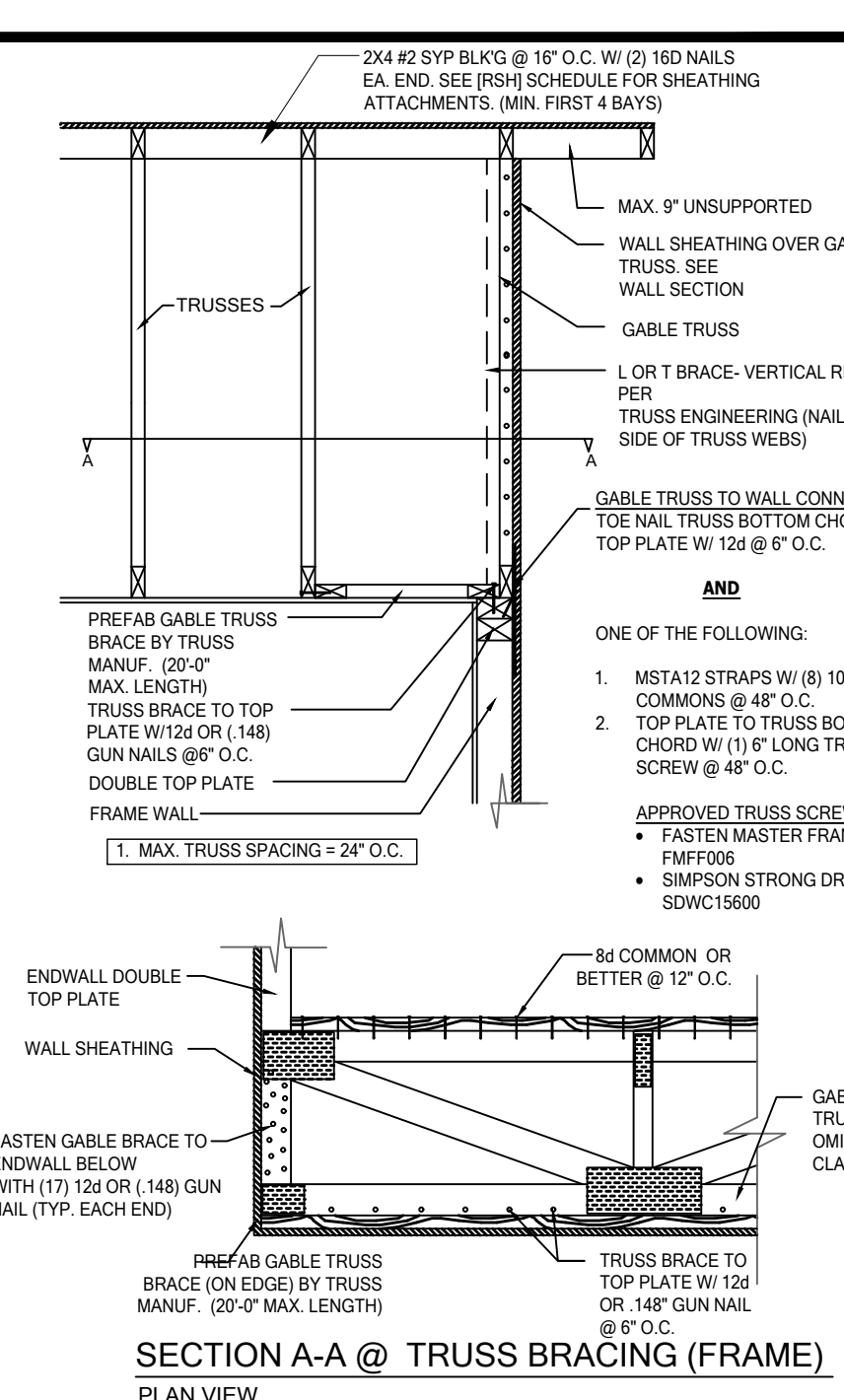
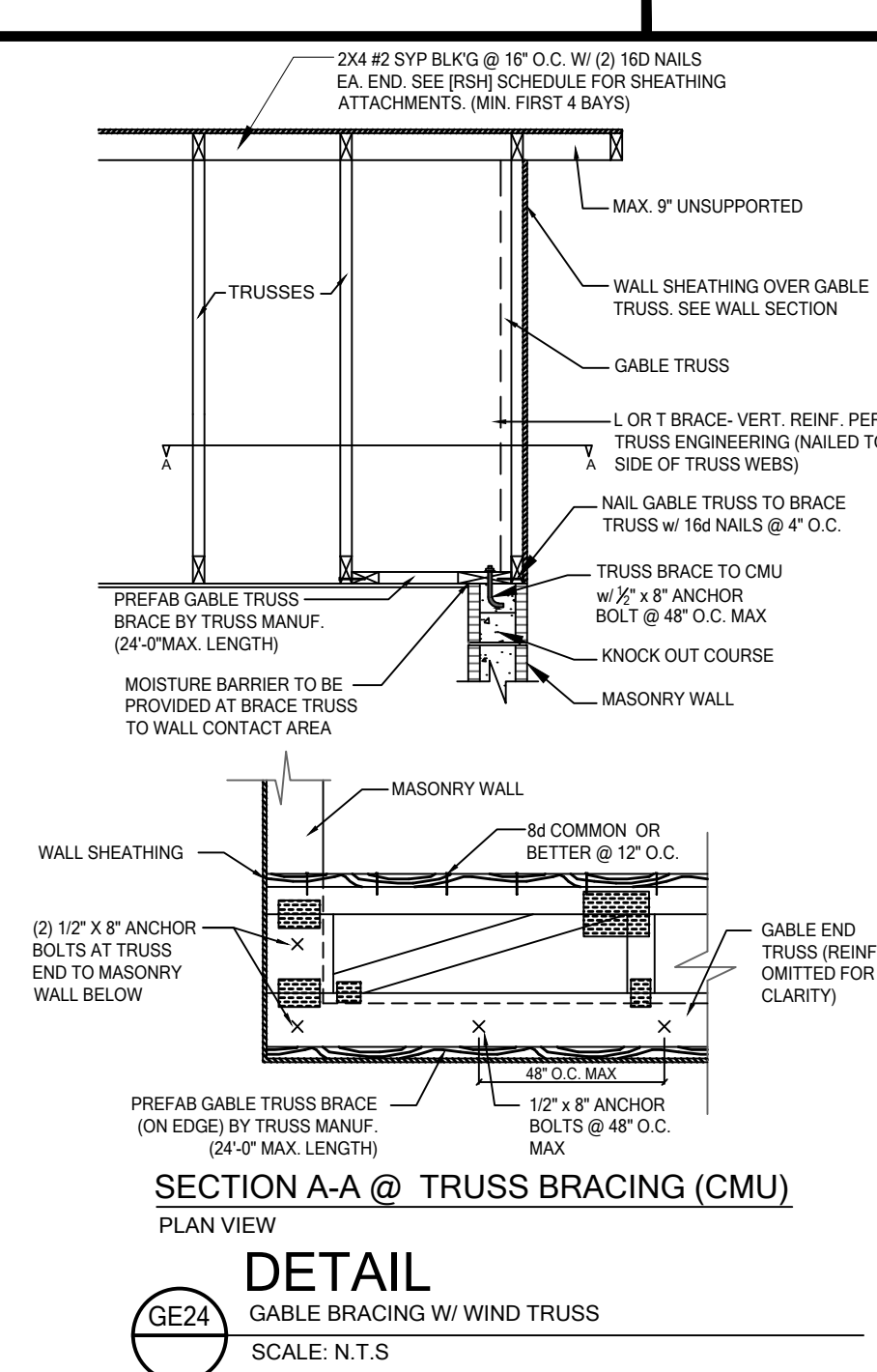
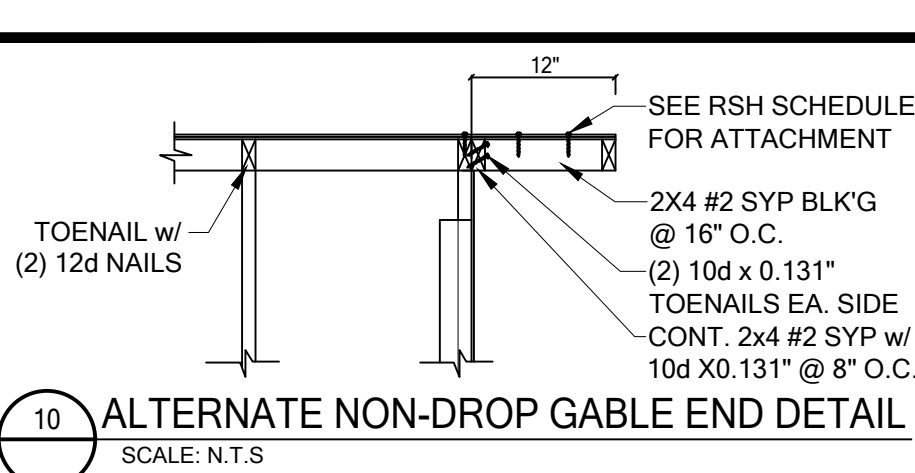
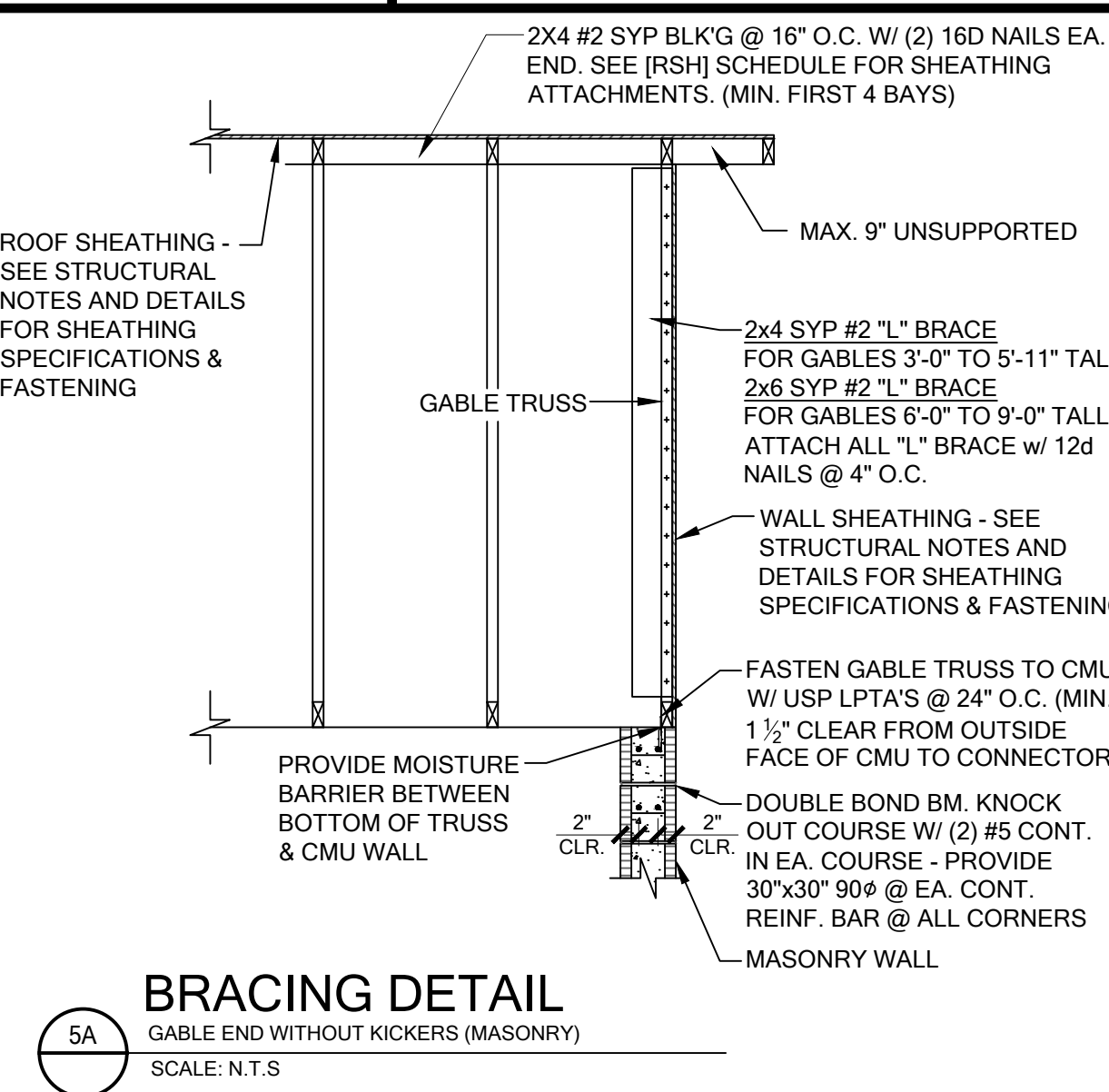
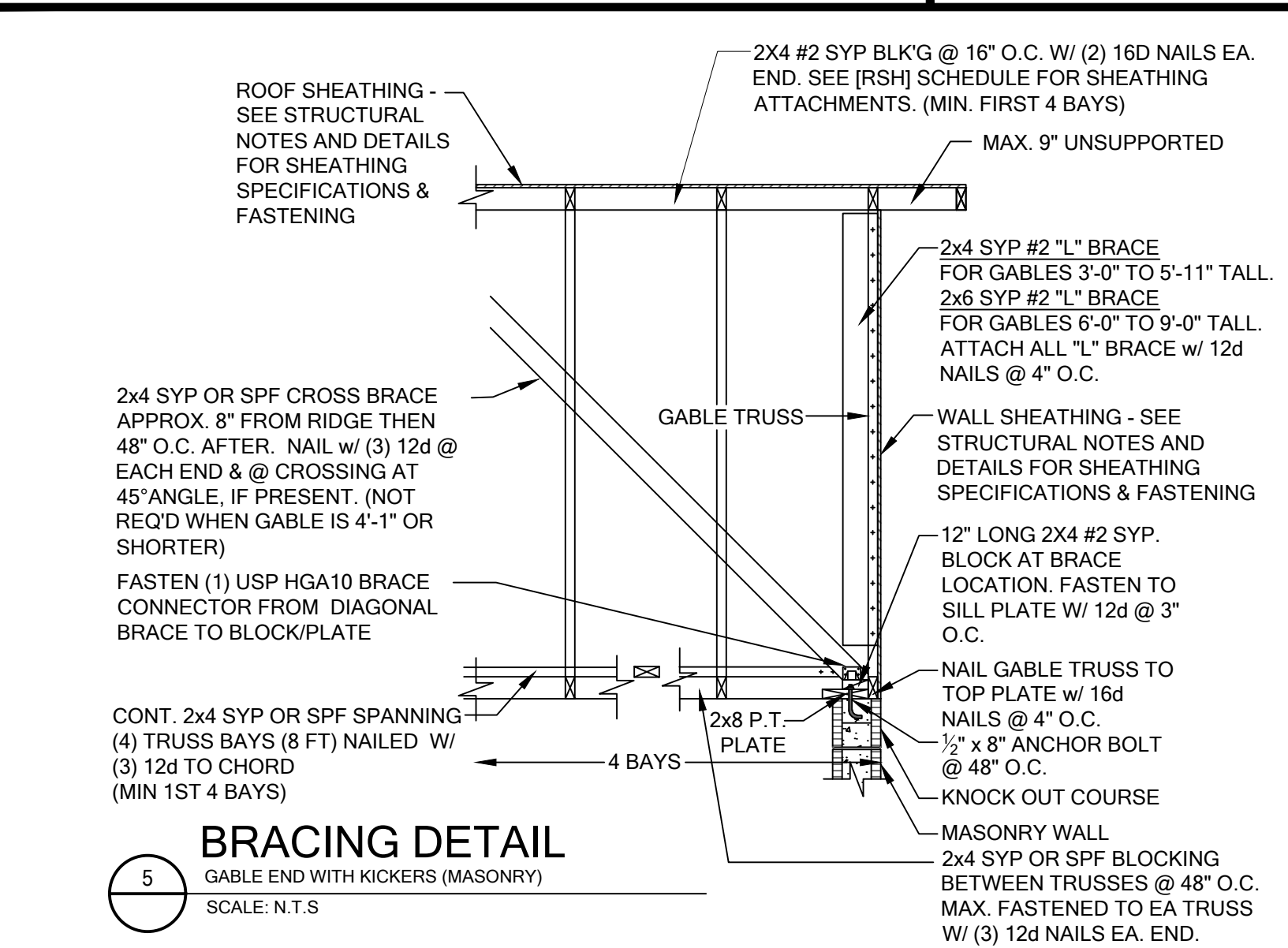
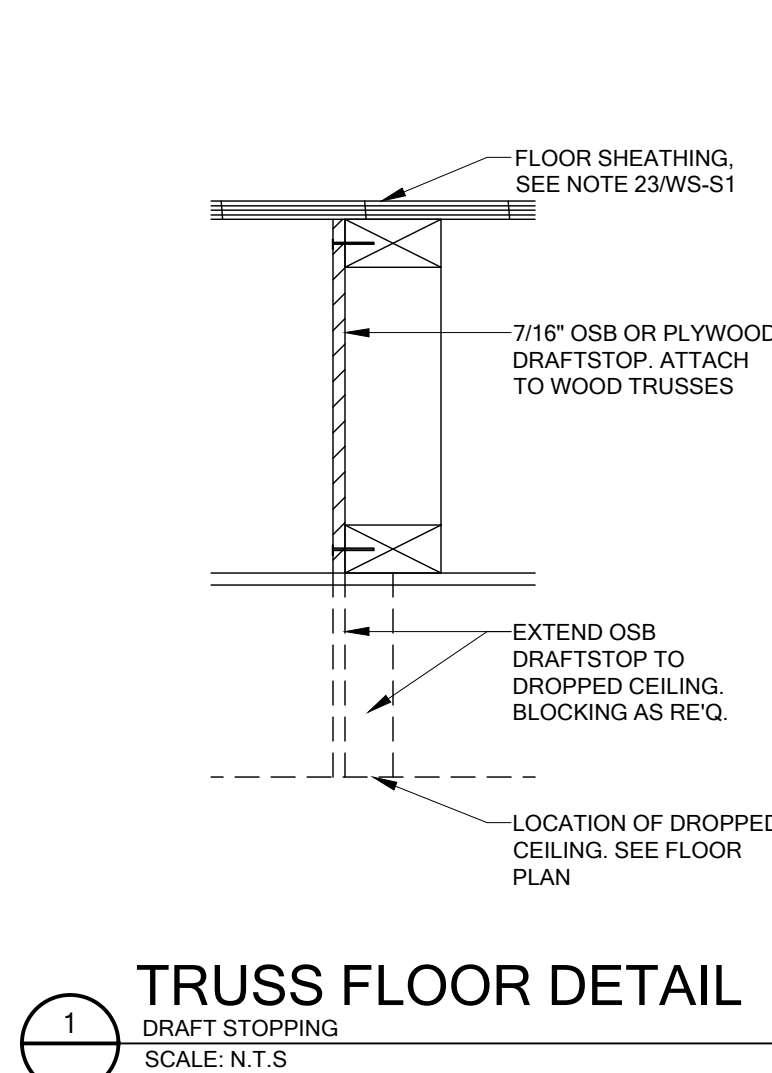
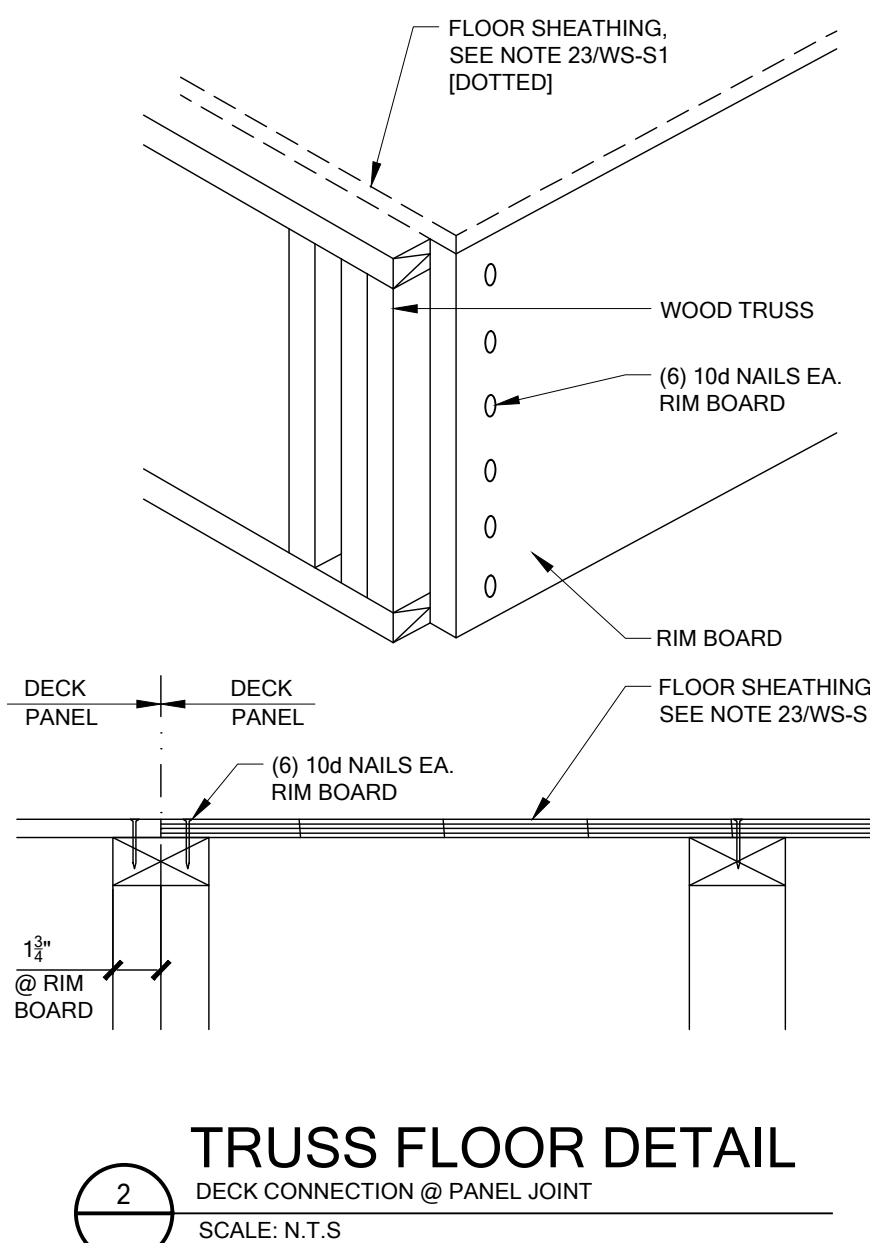
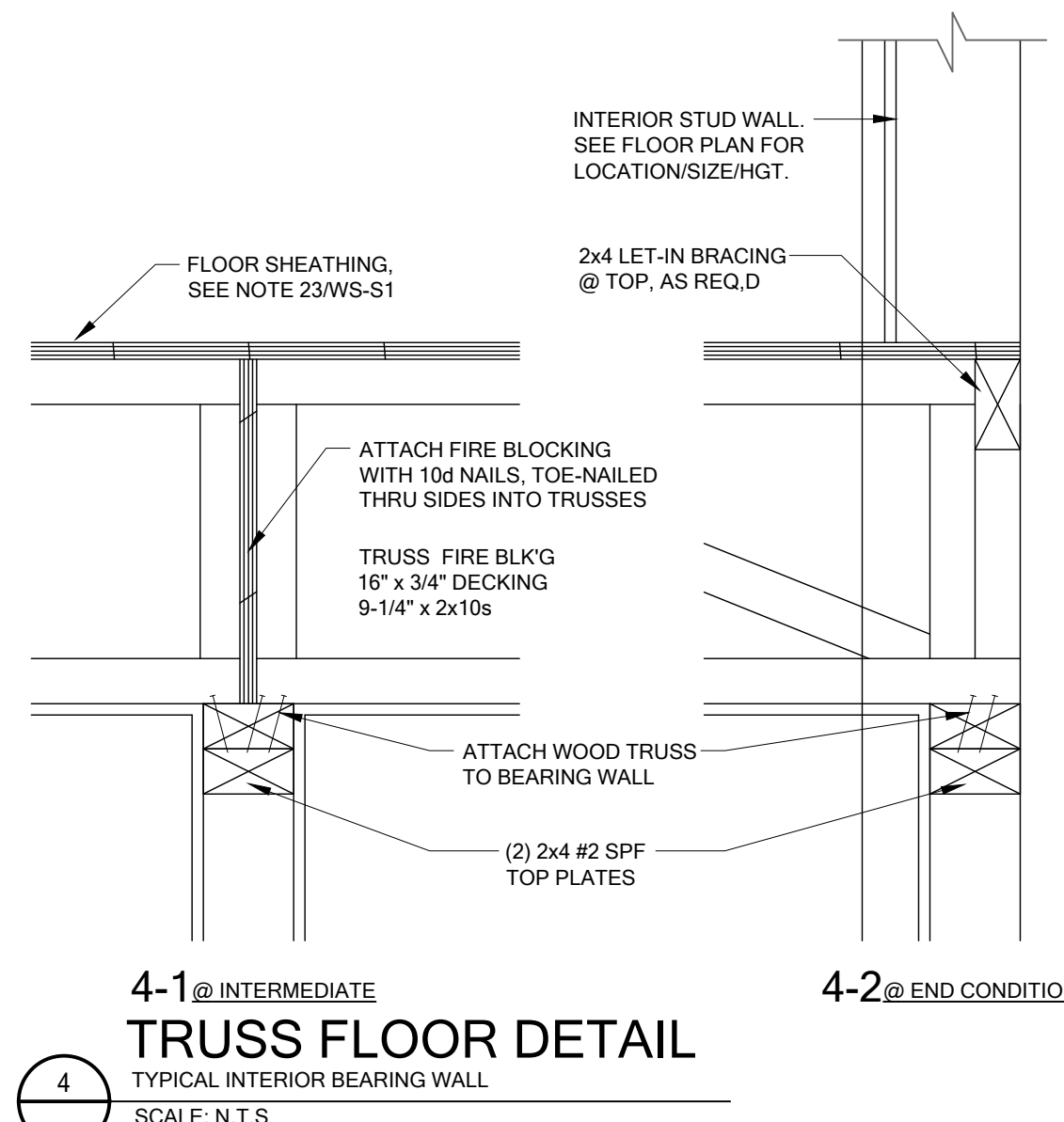
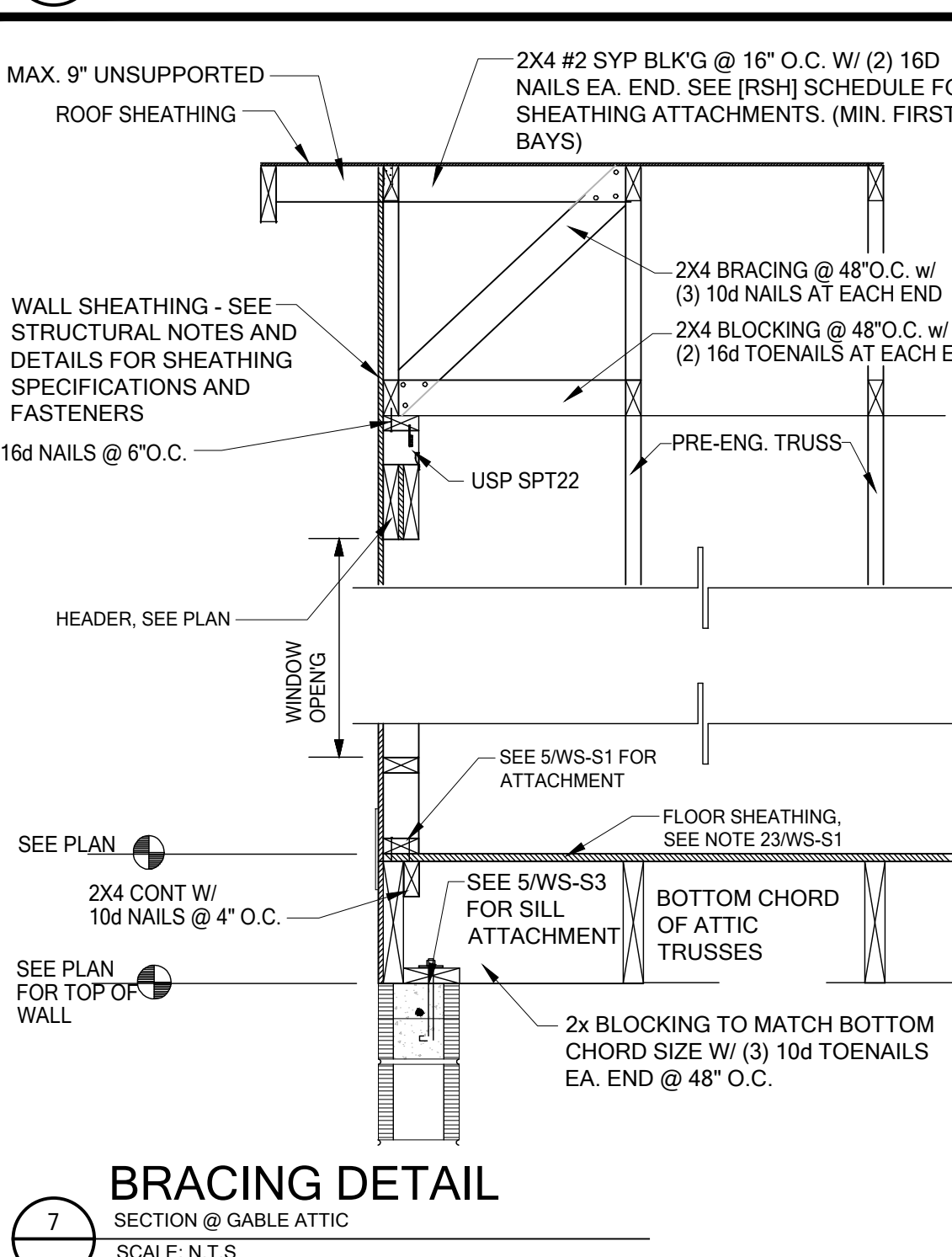
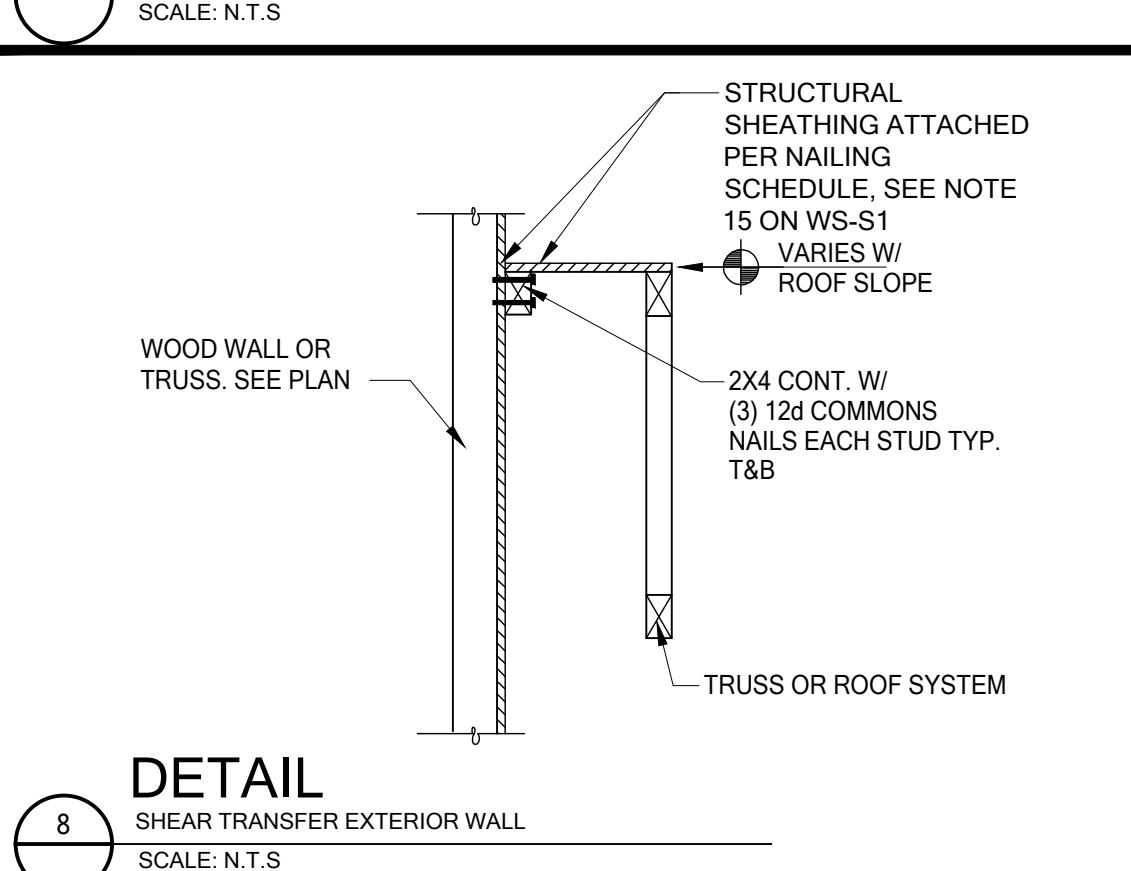
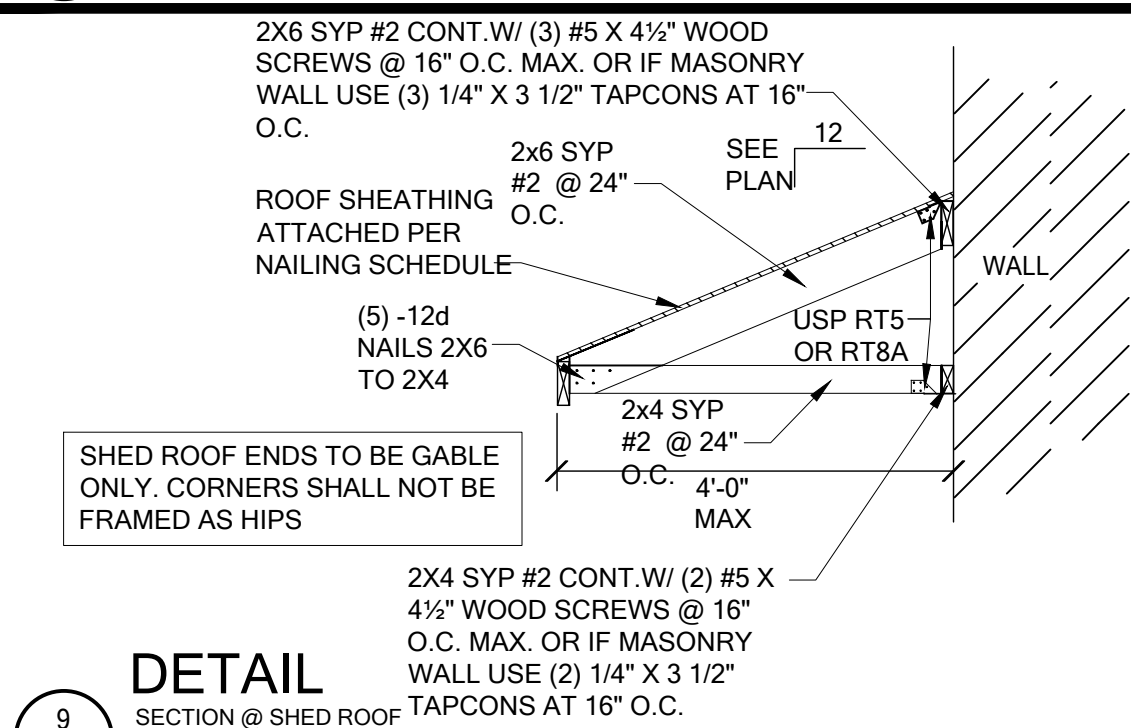
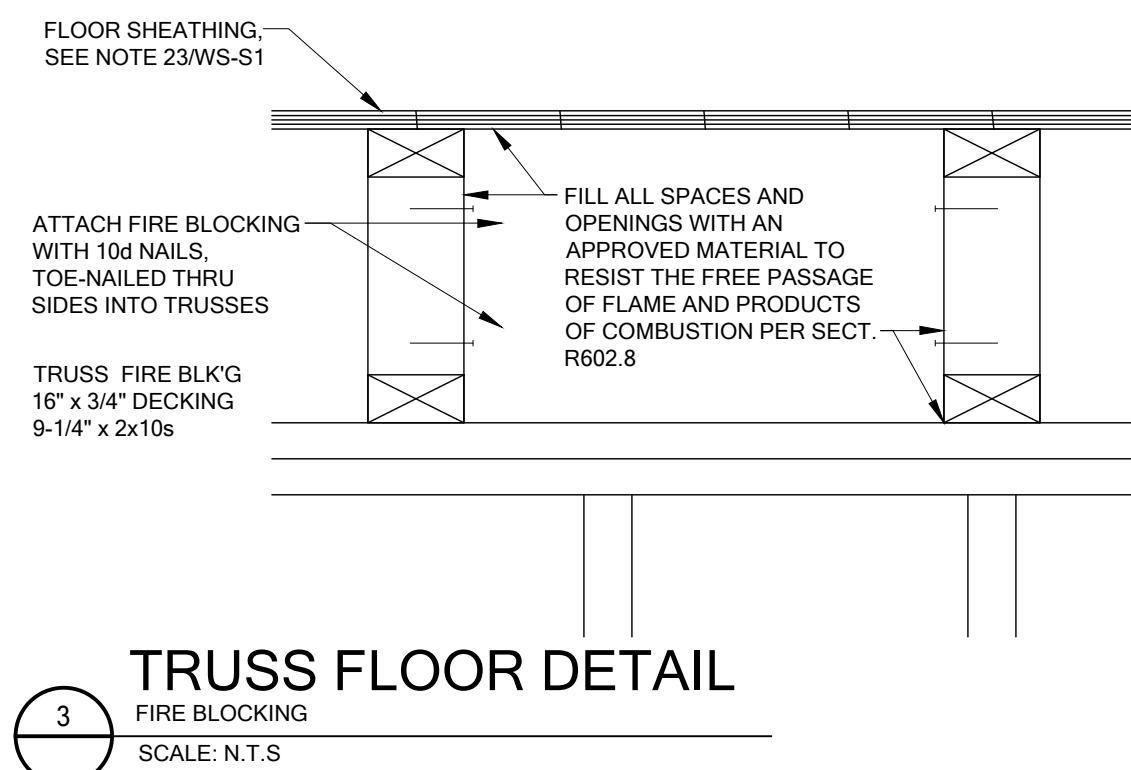
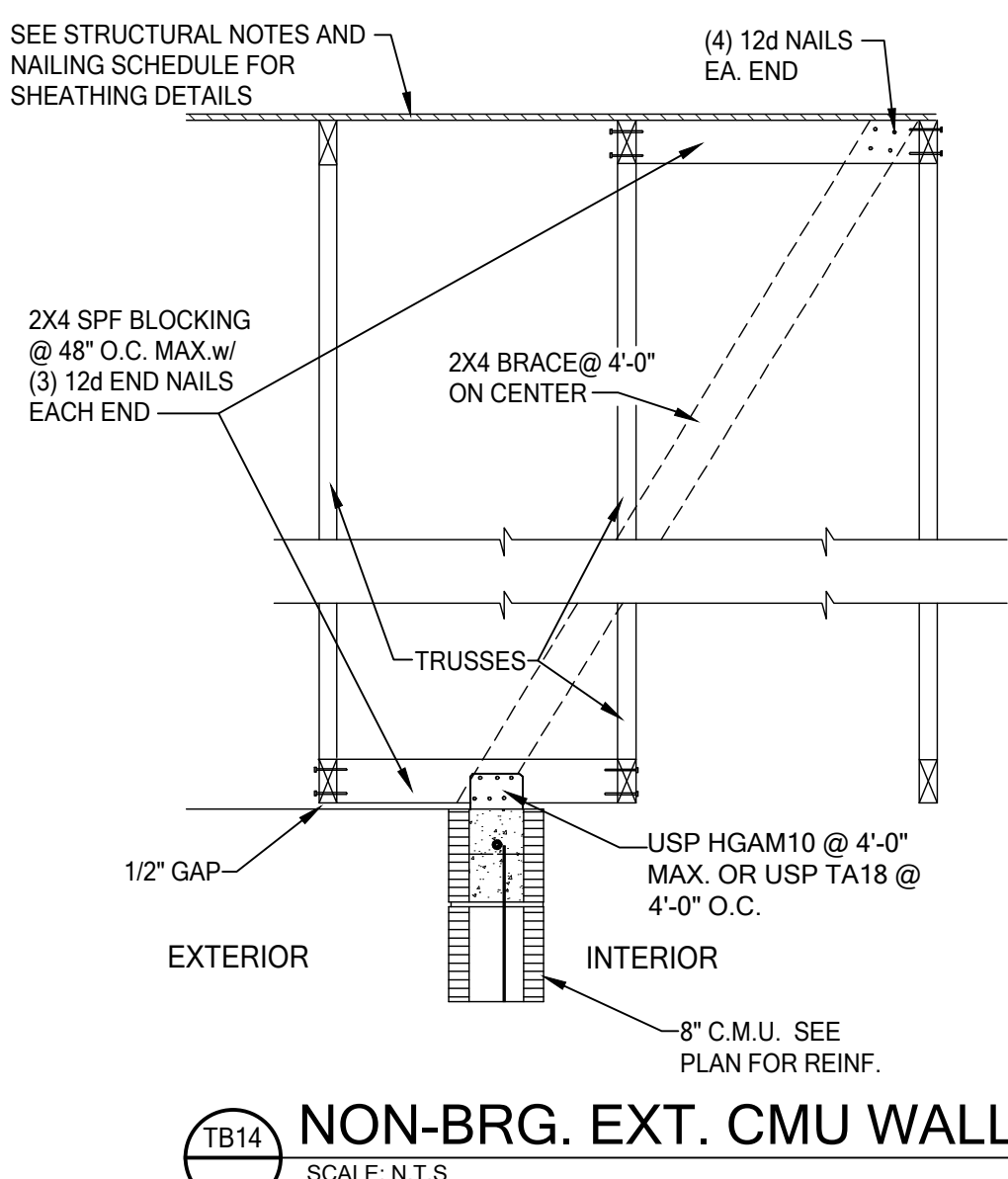
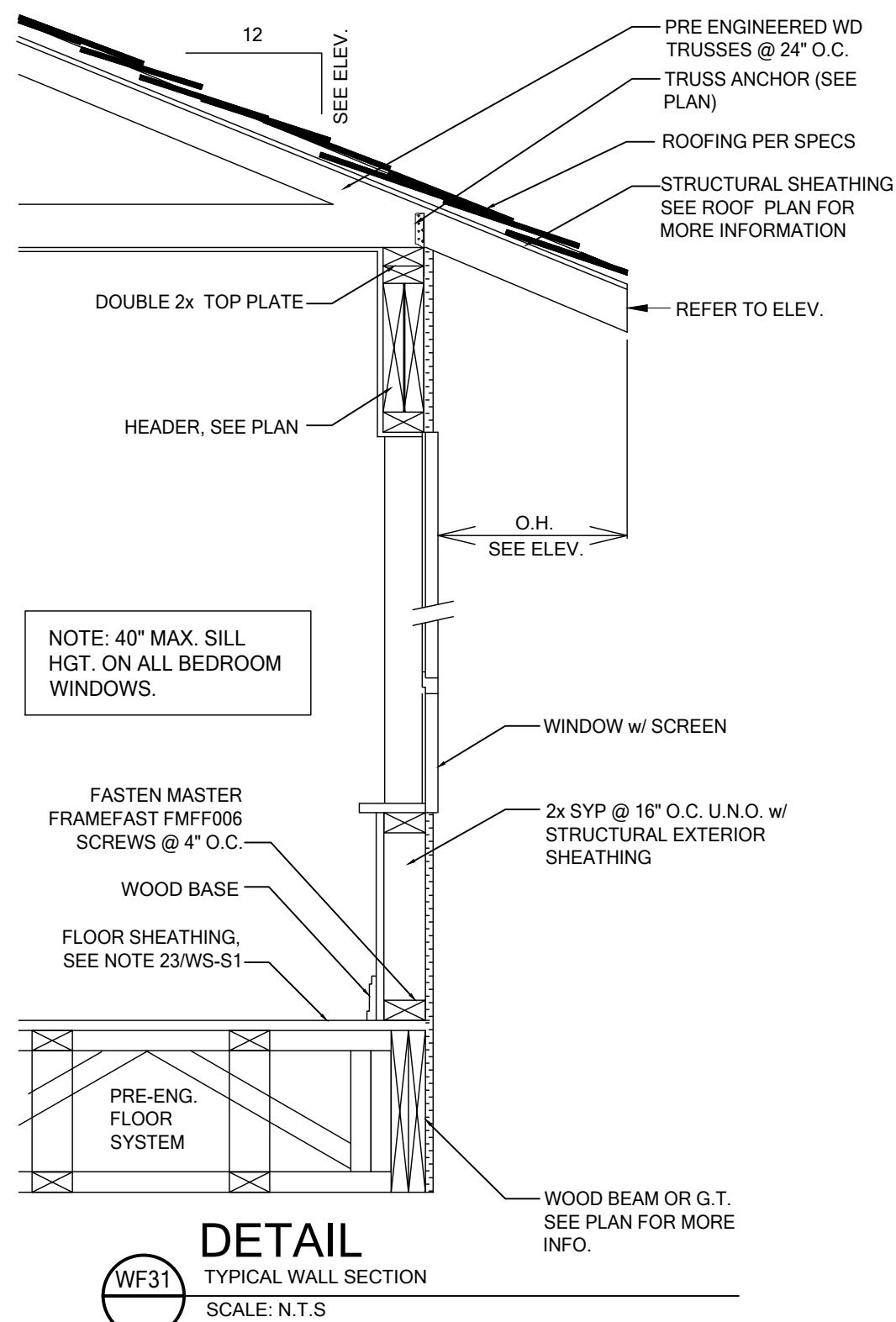
5 LAP SIDING:
ATTACH w/ 11ga. 1 3/4" ROOFING NAIL 16" O.C. INTO STUD OR .090" SHANK x 1.215 HD x 1.5" LONG RING SHANK NAIL 8" O.C. INTO WSP (MIN. 7/16" OSB). INSTALL PER MANUFACTURER INSTRUCTIONS.

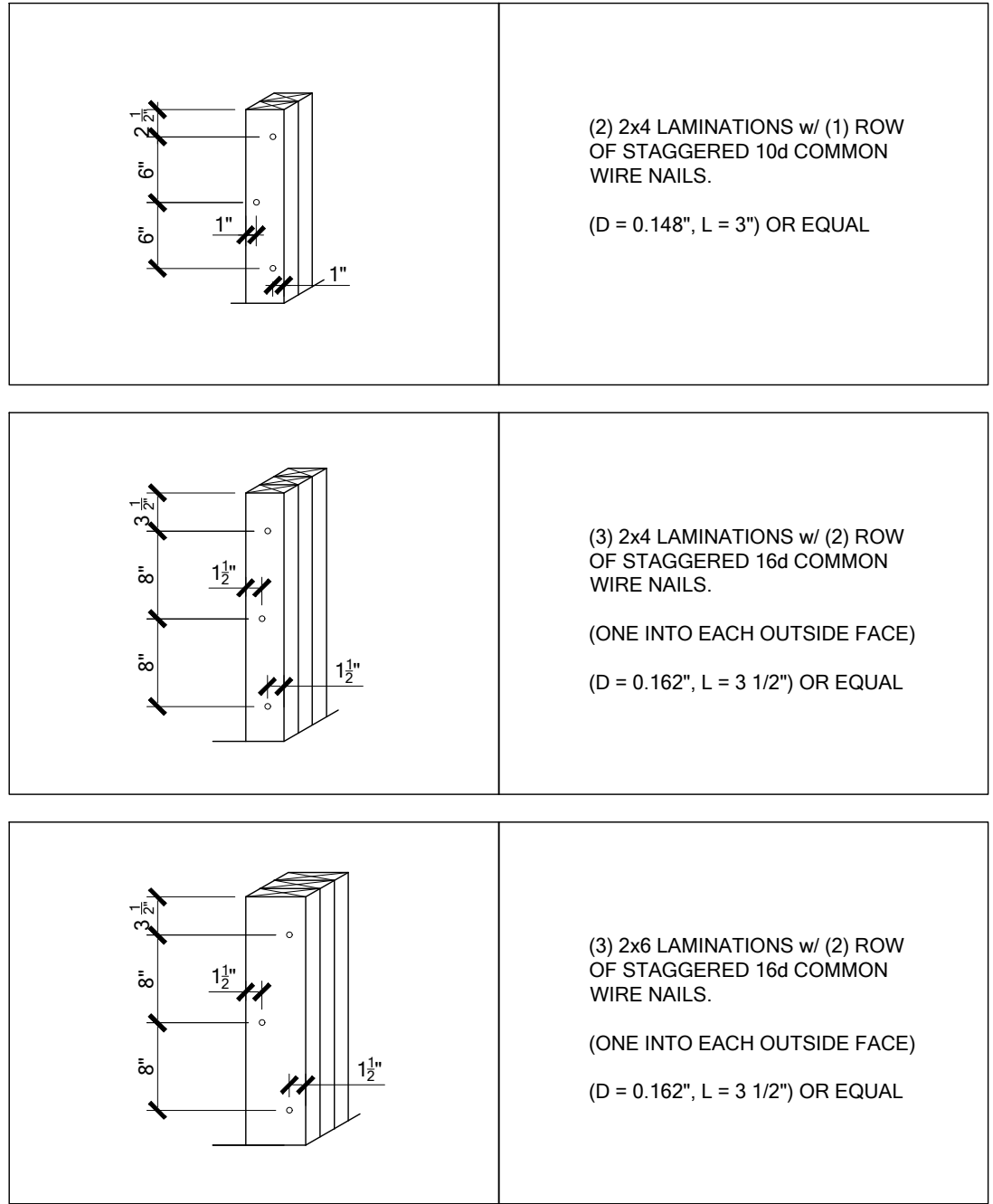
- WALL SECTION KEY NOTES
1. MONOLITHIC FOUNDATION, SEE FOUNDATION PLAN.
 2. 8" CONCRETE BLOCK WALL.
 3. (1) #5 REBAR (GRADE 40) GROUTED SOLID IN A FILLED CELL, CONT. FROM FOOTING TO BOND BEAM w/ 25" LAP SPLICE.
 4. CONCRETE SLAB.
 5. WOOD BASE.
 6. 1/2" DRYWALL ON 3/4" P.T. FURRING @ 24" O.C. w/ INSULATION PER FBC AND ENERGY FORM SUBMITTED WITH PERMIT APPLICATION.
 7. SILL SEAL OR SELF-NAILING PLATES.
 8. PRE-ENGINEERED ROOF TRUSSES @ 24" O.C., MAX. INSULATION PER FBC AND ENERGY FORM SUBMITTED WITH PERMIT APPLICATION w/ OPEN Baffle @ 24" SPACE LOCATION.
 9. VENTED SOFFIT AND J-CHANNEL STAPLE SOFFIT TO SUB-FASCIA w/ 1/4" CROWN X 3/4" LEG STAPLE @ EACH OF THE FOLLOWING LOCATIONS, THE MALE & FEMALE LAP AND CENTER FLUTE. SUBSTRATE ATTACHMENT: J-CHANNEL: WOOD - ATTACH w/ 1/4" X 3/4" LEG STAPLE IN DIAMOND PATTERN @ 12" O.C.
 - 9a. VENTED SOFFIT AND F-CHANNEL STAPLE SOFFIT TO SUB-FASCIA w/ 1/4" CROWN X 3/4" LEG STAPLE @ 8" O.C. SUBSTRATE ATTACHMENT: F-CHANNEL: WOOD - ATTACH w/ 1/4" CROWN X 3/4" LEG STAPLE IN DIAMOND PATTERN @ 24" O.C. MASONRY - ATTACH w/ 14ga. 5/8" T-NAIL w/ 3/8" DIAMETER HEAD @ 8" O.C.
 10. R704.3 ALUMINUM FASCIA.
 - ALUMINUM FASCIA SHALL HAVE A MINIMUM THICKNESS OF 0.019 INCHES AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THIS CODE. FASTENERS SHALL BE ALUMINUM OR STAINLESS STEEL. ALUMINUM FASCIA SHALL BE ATTACHED IN ACCORDANCE WITH SECTION R704.3.1, R704.3.2 OR R704.3.3. THE DRIP EDGE SHALL COMPLY WITH R905.2.8.5, AND THE THICKNESS OF THE DRIP EDGE SHALL BE IN ACCORDANCE WITH TABLE R903.2.1.
 11. METAL DRIP EDGE.
 12. 1/2" CEILING BOARD w/ INSULATION PER FBC AND ENERGY FORM SUBMITTED WITH PERMIT APPLICATION AS REQUIRED.
 13. ROOF TRUSS ANCHORS, SEE FRAMING PLAN.
 14. 8" CONCRETE BOND BEAM BLOCK w/ (1) #5 REBAR w/ STD. HOOK.
 15. ROOF ASSEMBLY:
UNDERLAYMENT SHALL CONFORM WITH R905.1.1.1. AND PER TABLE R905.1.1.1.
FIBERGLASS SHINGLES, ASTM D 225, ASTM D 3462, ASTM D 3161 ATTACH w/ (6) 1 1/4" 11-12GA. w/ 3/8" HEAD ROOFING NAIL PER STRIP OR (2) PER INDIVIDUAL SHINGLE. ASPHALT SHINGLES IN DIAMOND PATTERN @ 12" MANUFACTURER INSTRUCTIONS FOR PRODUCT.
METAL ROOF OPTION: C&C ROOF PRESSURES MRH 30'
160/B HIP ZONE 1 = -34.78, ZONE 2 = -47.94, ZONE 3 = -47.94
GABLE ZONE 2 = -59.03, ZONE 3 = -70.03
160/C HIP ZONE 1 = -49.95, ZONE 2 = -68.85, ZONE 3 = -68.85
GABLE ZONE 1 = -49.95, ZONE 2 = -68.85, ZONE 3 = -68.85
26GA. GALV. STEEL 4x4 L FLASHING
UNDERLAYMENT SHALL BE PER FBC R905.1.1 OVER SHEATHING. SEE MANUFACTURER INSTALLATION INSTRUCTIONS.
ROOF SHEATHING AND NAILING PER SPECIFICATION IN ENGINEERED ROOF SHEATHING & NAILING DETAIL(RSH) ON FRAMING PLAN FOR EACH ROOFING MATERIAL AND ZONE
 16. PIER BASE AND CAP TRIM, SEE EXTERIOR ELEVATIONS.
 17. PORCH CEILINGS:
FRONT PORCHES: 7/16" OSB ON UNDERSIDE OF ROOF TRUSSES. ATTACH OSB TO TRUSSES w/8d NAILS OR 7d SCREW SHANK @ 4" O.C. EDGES & FIELD. w/ EXTERIOR FINISH OF VENTED SOFFIT AND J-CHANNEL STAPLE SOFFIT TO SUBSTRATE @ 8" O.C. INSTALL TRIM NAIL IN CENTER RIB OF PANEL @ 16" O.C.; ATTACH J-CHANNEL w/ 3/8" x 5/8" STAPLE @ 24" O.C. INTO OSB SUBSTRATE.
REAR PORCHES: TEXTURED PAINTED: 1/2" EXTERIOR GYPSUM SOFFIT BOARD SHALL BE ATTACHED TO ALL FRAMING MEMBERS WITH 2X BLOCKING PROVIDED AT PERIMETER. THE GYPSUM BOARD SHALL BE ATTACHED w/ TYPE "W" 1 1/4" DRYWALL SCREWS @ 8" O.C. IN FIELD AND EDGES.
 18. ALL ROOF TRUSSES SHALL BE TOENAILED w/ (2) 10d NAILS AND SHALL BE FASTENED TO WALL TOP PLATE w/ (1) FASTEN MASTER FRAMEFAST. FMFF006 TRUSS SCREW INSTALLED PER MANUFACTURER RECOMMENDATIONS U.N.O. ON PLANS.
 20. FASTEN MASTER FRAMEFAST FMFF006 SCREWS @ 4" O.C. MAX.
 21. PRE-ENGINEERED WOOD I - JOIST OR FLOOR TRUSS @ 24" O.C., MAX. SEE SECOND FLOOR FRAMING PLAN.
 22. WOOD RIM BOARD; FASTEN MULTIPLE PLY RIM BOARDS TOGETHER w/ (3) ROWS 8d NAILS @ 12" O.C.; SINGLE PLY FASTEN RIM BOARD TO TOP & BOTTOM RIBBONS w/8d NAILS @ 6" O.C. & FASTEN RIM BOARD TO EA. FLOOR TRUSS w/ (2) 8d NAILS.
 23. 3/4" T&G WOOD DECKING OR 3/4" T&G EXACOR MAGNESIUM OXIDE UNDERLAYMENT FLOOR PANELS, GLUED AND ATTACHED w/ 8d X 1 1/2" SCREW SHANK NAIL @ 8" O.C. EDGES AND 12" O.C. FIELD OR 16GA. X 1 3/4" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD. SEE SECOND FLOOR FRAMING SHEET. GUE BETWEEN SHITG AND TRUSSES. STAPLES OR NAILS USED FOR EXACOR MUST BE GALVANIZED.
 24. LPTA, ATTACH w/ (10) 10d X 1 1/2" NAILS, INTO INSIDE FACE OF RIM BOARDS. FOR LOCATIONS, SEE TRUSS STRAP PLACEMENT PLAN ON SHEET 6.0. LPTA'S ARE SET IN FROM OUTSIDE FACE OF BLOCK:
2 3/4" @ 1 1/8" X 16" RIM BOARD w/ 2x6 LET-IN
2 1/4" @ (2) 1 1/8" X 16" RIM BOARD
 25. NOT USED
 26. NOT USED
 27. 7/16" ZIP SYSTEM OSB EXPOSURE 1 ON EXT. WALLS w/ ALL EDGES BLOCKED ATTACH w/ 8d NAILS @ 3" O.C. EDGES AND 6" O.C. FIELD OR 16GA. X 1 3/4" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD.
 28. 2x4 SYP BOTTOM PLATE.
 29. 1/2" DRYWALL ON 2x4 #2 SYP WOOD STUDS @ 16" O.C. AND INSULATION PER FBC AND ENERGY FORM SUBMITTED WITH PERMIT APPLICATION.
 30. 2X WOOD HEADER @ OPENING, SEE SECOND FLOOR PLAN FOR SIZE.
 31. (2) 2x4 #2 SYP TOP PLATES. TOPMOST PLATE TO BE FIELD-INSTALLED PER DETAIL N5D-W AND NAILED TO WALL SHEATHING w/ (1) ROW 8d NAILS @ 4" O.C.
 32. TA18, ATTACH TO FACE OF TRUSS w/ (9) 10d X 1 1/2" NAILS.
 33. TA12 @ END TRUSS AND 48" O.C., INSTALL 6" UP ON RIM BOARD AND 6" ON UNDERSIDE OF TRUSS.
 34. VENTED SOFFIT AND J-CHANNEL ATTACHED w/ 18ga. 1/4" x 3/4" LEG STAPLE IN DIAMOND PATTERN @ 12" O.C. INTO 2x4 SYP NAILERS. INSTALL INTERMED. 2X NAILERS AS SHOWN. ATTACH SOFFIT w/ CORROSION RESISTANCE NAIL.
 35. FLASHING, AS REQUIRED.
 36. REFER TO SECTIONS ON SHEET SD-W FOR OPENING ATTACHMENTS AND DETAIL N5D-W FOR WALL PANEL ATTACHMENTS.
 37. SHEARWALL ASSEMBLY, SEE FIRST FLOOR PLAN.
 38. 2x2 SYP P.T. BOTTOM PLATE w/ RT8A @ EVERY STUD ATTACH w/ (1) FA3 @ EACH END OF THE WALL, (1) @ EACH SIDE OF OPENING AND @ 48" O.C.
 40. 1/2" MIN. THICKNESS EXTERIOR MASONRY PLASTER, APPLIED OVER BLOCK / MASONRY. (STONE VENEER DOTTED)-SEE ARCH. DWG'S. FOR REQUIREMENTS AND INSTALL ALL COVERINGS PER MANUFACTURER RECOMMENDATIONS.
 41. LAP SIDING (STONE VENEER DASHED)-SEE ARCH. DWG'S. FOR REQUIREMENTS AND INSTALL ALL COVERINGS PER MANUFACTURER RECOMMENDATIONS.
 42. HORIZ. MID-WALL STARTER STRIP, ANGLE SET 1" BELOW TOP OF MASONRY: ATTACH w/ 11ga 1 3/4" ROOFING NAIL @ 16" O.C.
 43. 2x4 #2 SYP HORIZ. FLAT BRACE @ 48" O.C.(EXTENDED MIN. (4) TRUSS BAYS) - FASTEN TO EA. TRUSS BOTTOM CHORD w/ (4) 10d NAILS.
 44. RIBBON AND RIM BOARD BEYOND.
 45. 7/8" MIN. THICKNESS (3 COAT) EXTERIOR MASONRY PLASTER APPLIED OVER PAPERBACK WIRE LATH ON TYPAR OR EQUAL BUILDING WRAP PAPER.

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential (1st Edition). Engineer's signature and seal is only for the structural engineering portions of the drawing plans bearing Engineer's signature and seal.



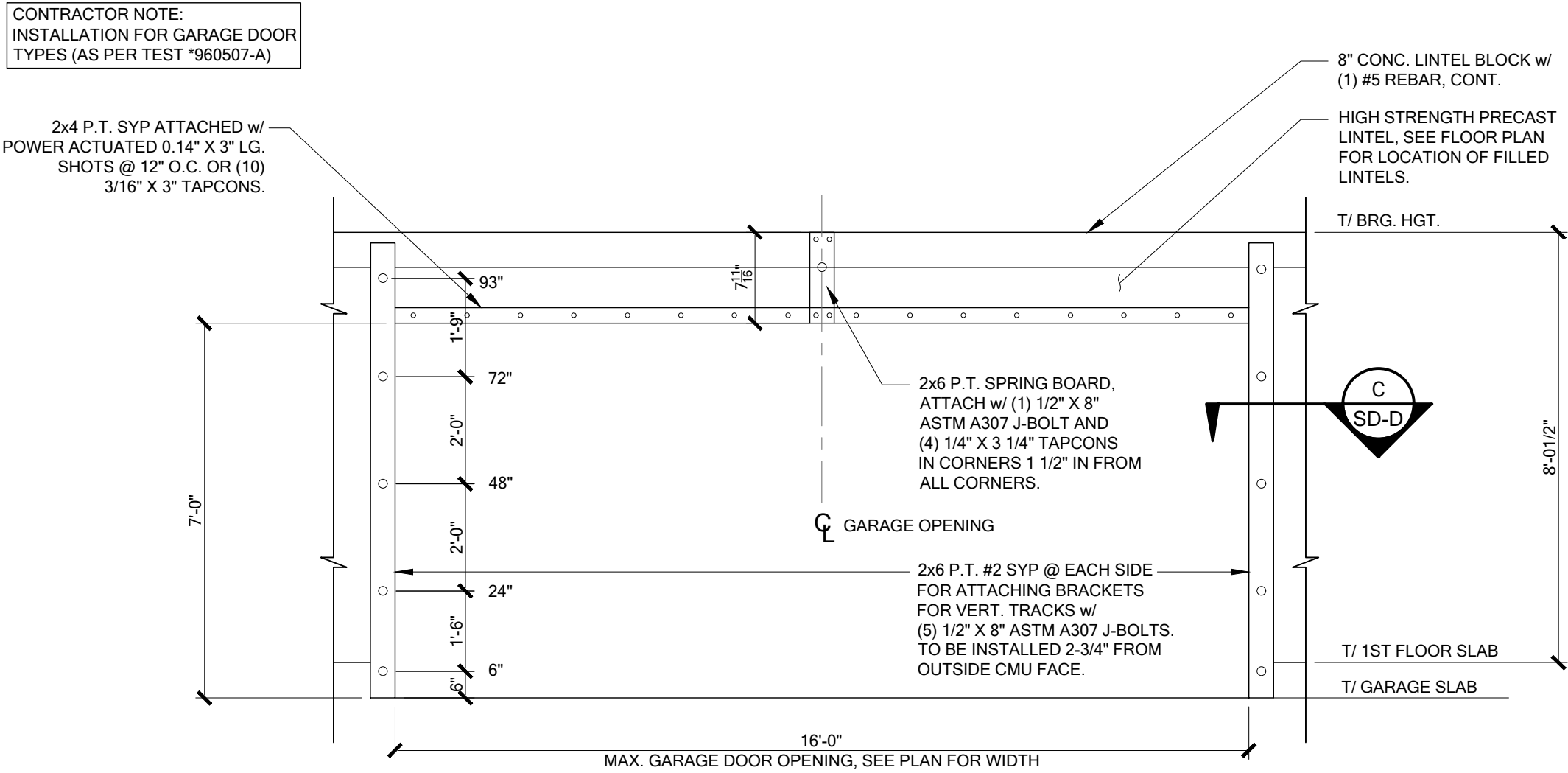
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Plan Name:	Willow	Elev - F	
Lot:	1	Block:	001
Address:	TBD Street A		
	Lake City, FL 32024		
Job No.	9FC00101	Reference No.	24-04830
		Sheet	WS-S1
			STANDARD





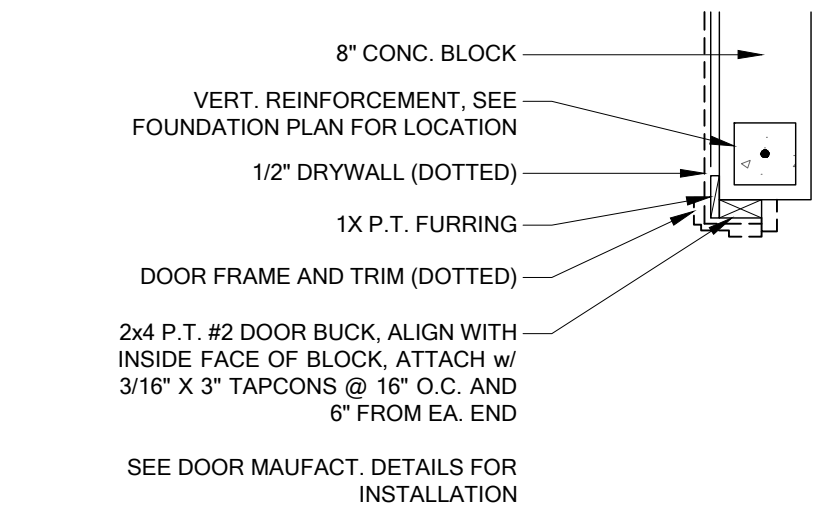
- NOTES:
- ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDE OF COLUMN.
 - ALL NAILS PENETRATE AT LEAST 3/4" OF THE THICKNESS OF THE LAST LAMINATION.
 - FOR 4-PLY, PROVIDE 1/4" DIA. X 5 1/2" LAG SCREWS OR EQUAL. (SPACE AS SHOWN FOR 3-PLY)
 - REFER TO NDS SECTION 15.3 FOR ADDITIONAL INFORMATION.

STD. NAILING FOR BUILT-UP COLUMNS
SCALE: N.T.S.

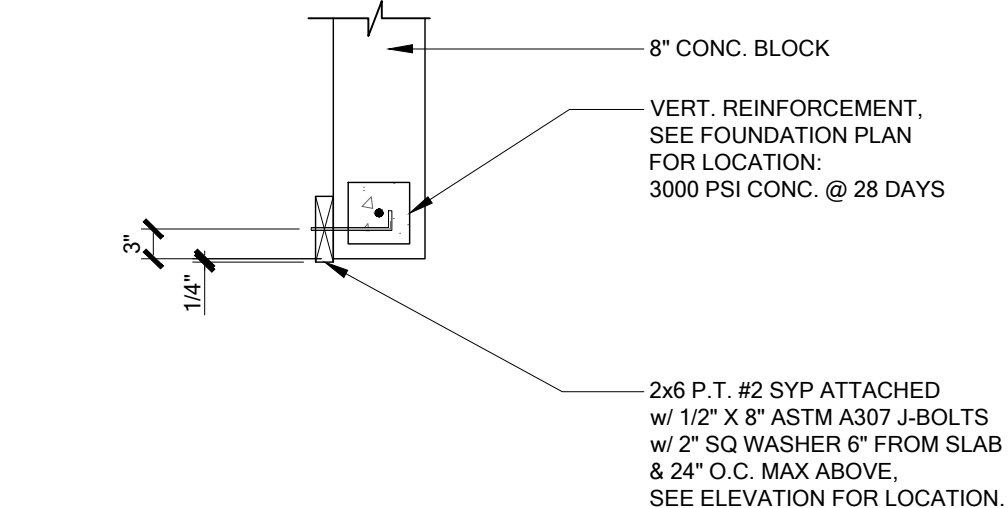


NOTES:
SIDE JAMB ATTACHMENT IS PER ACI 530.1 CHAPTER 2 ASD SECTION 2.1.4 [SUPERCEDES WAYNE DALTON JAMB ATTACHMENT SUPPLEMENT]

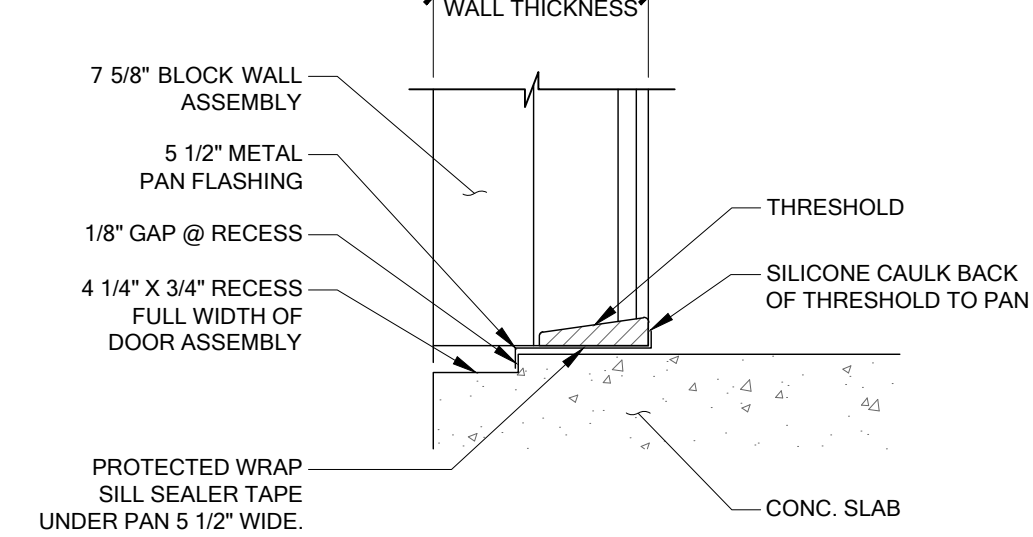
G GARAGE DOOR ELEVATION
SCALE: N.T.S.



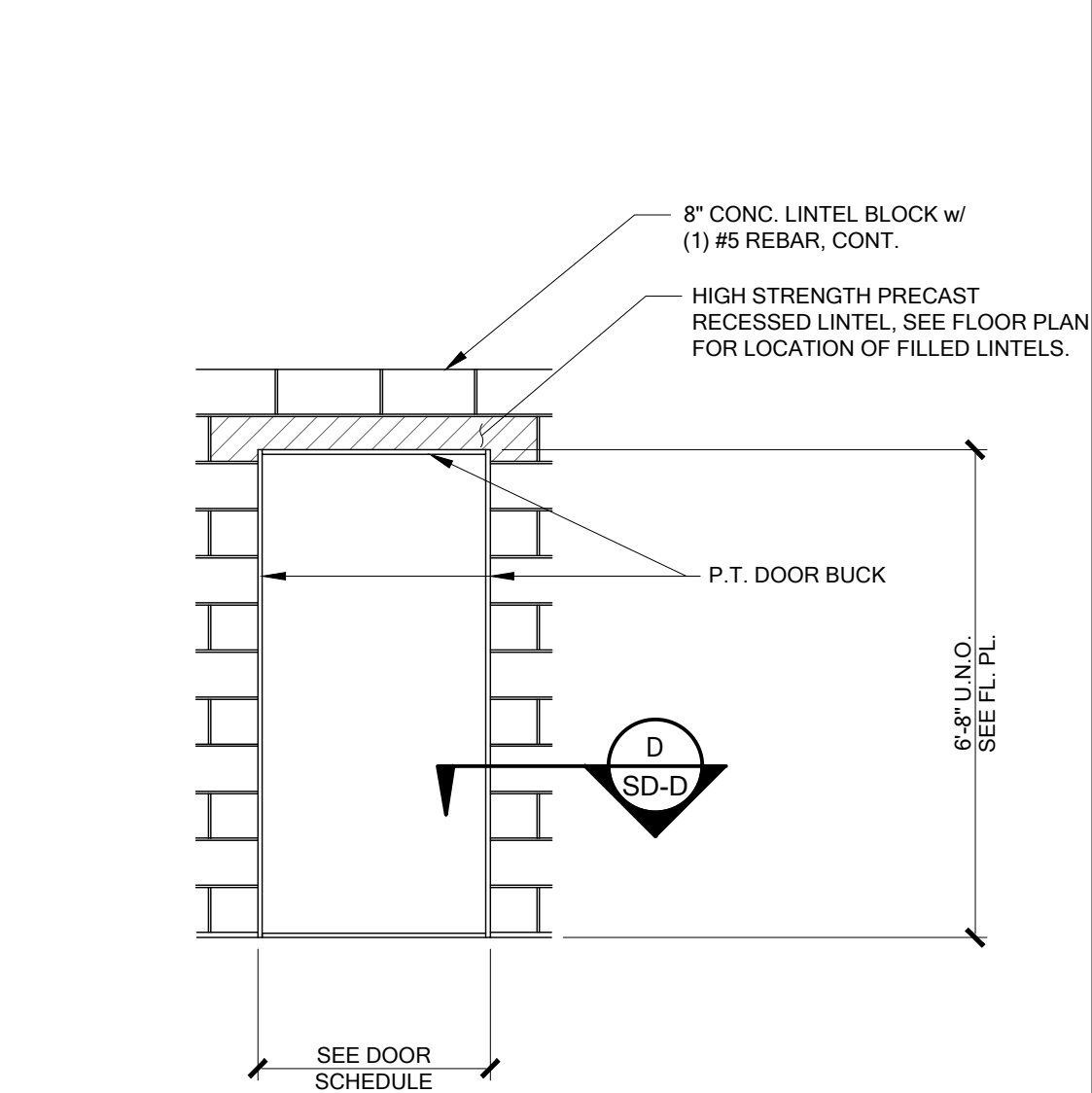
D 2X4 DOOR BUCK DETAIL
SCALE: N.T.S.



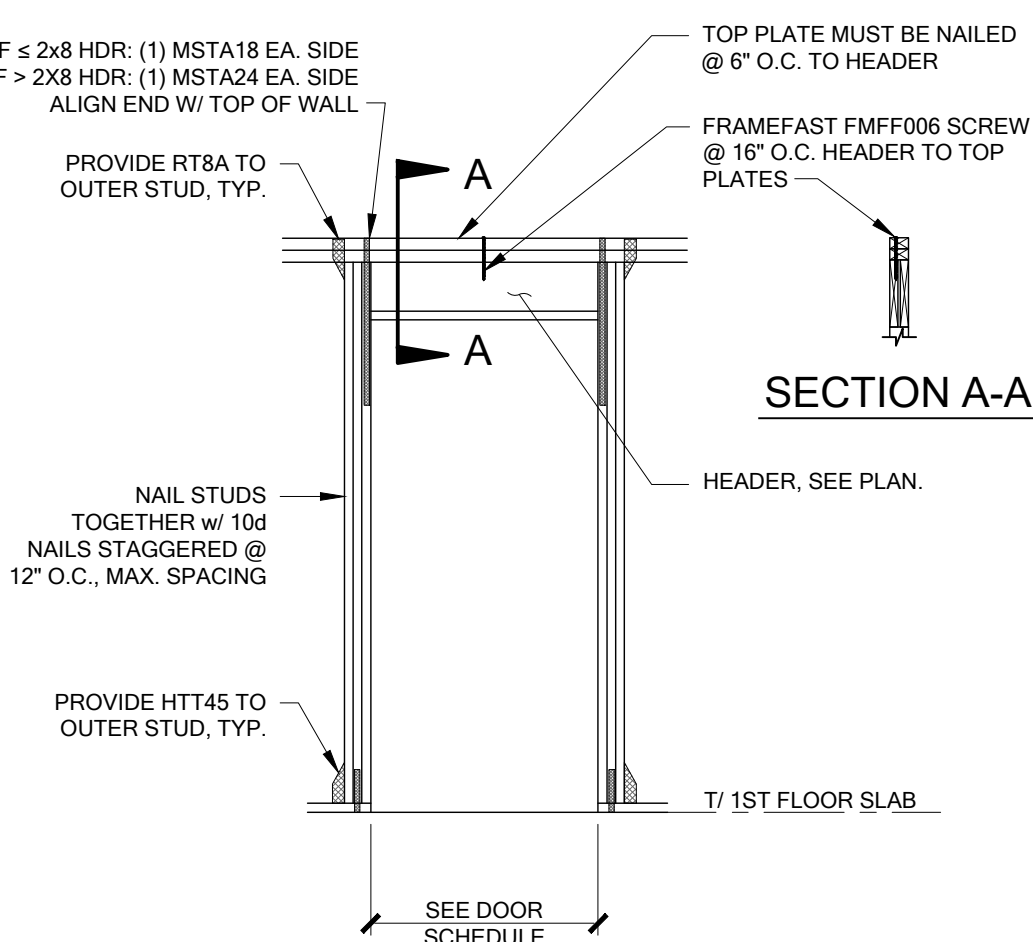
C GARAGE DOOR BUCK DETAIL
SCALE: N.T.S.



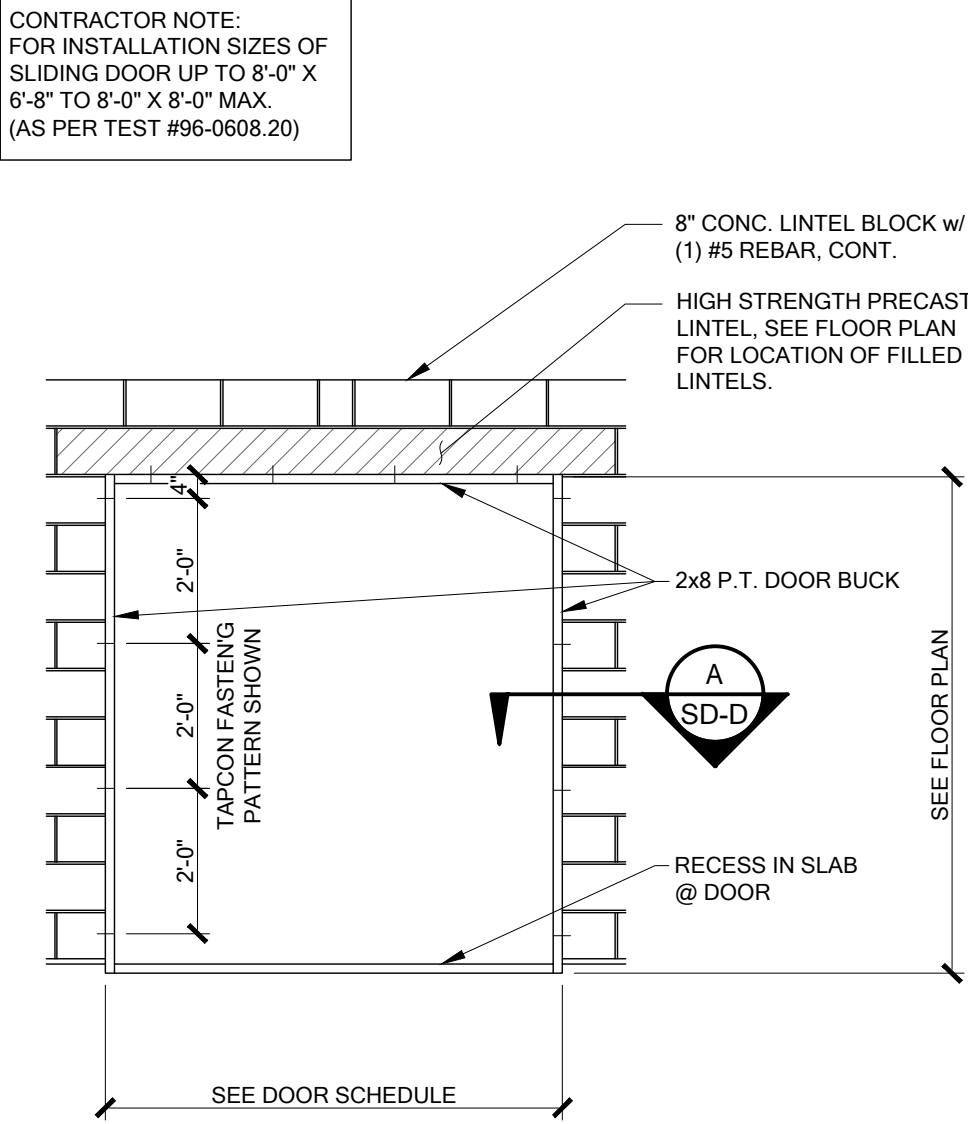
B DOOR PAN FLASHING
SCALE: N.T.S.



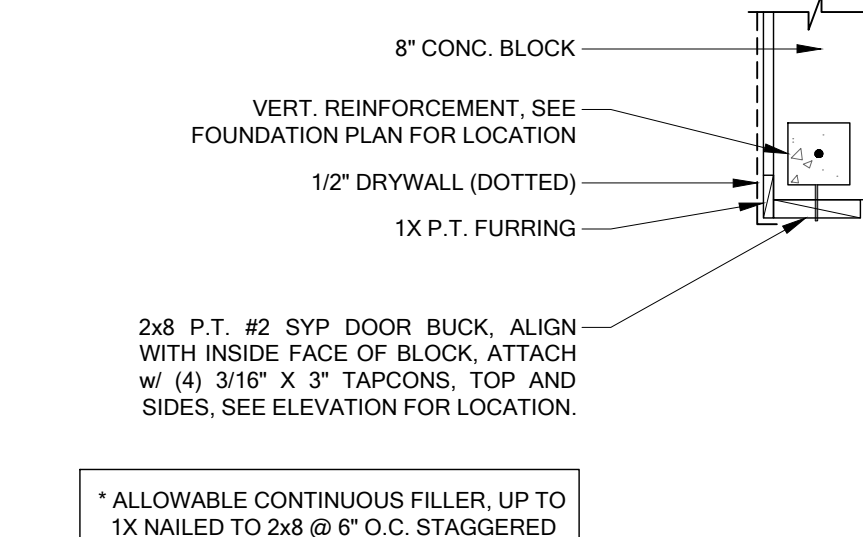
F STANDARD DOOR ELEVATION
SCALE: N.T.S.



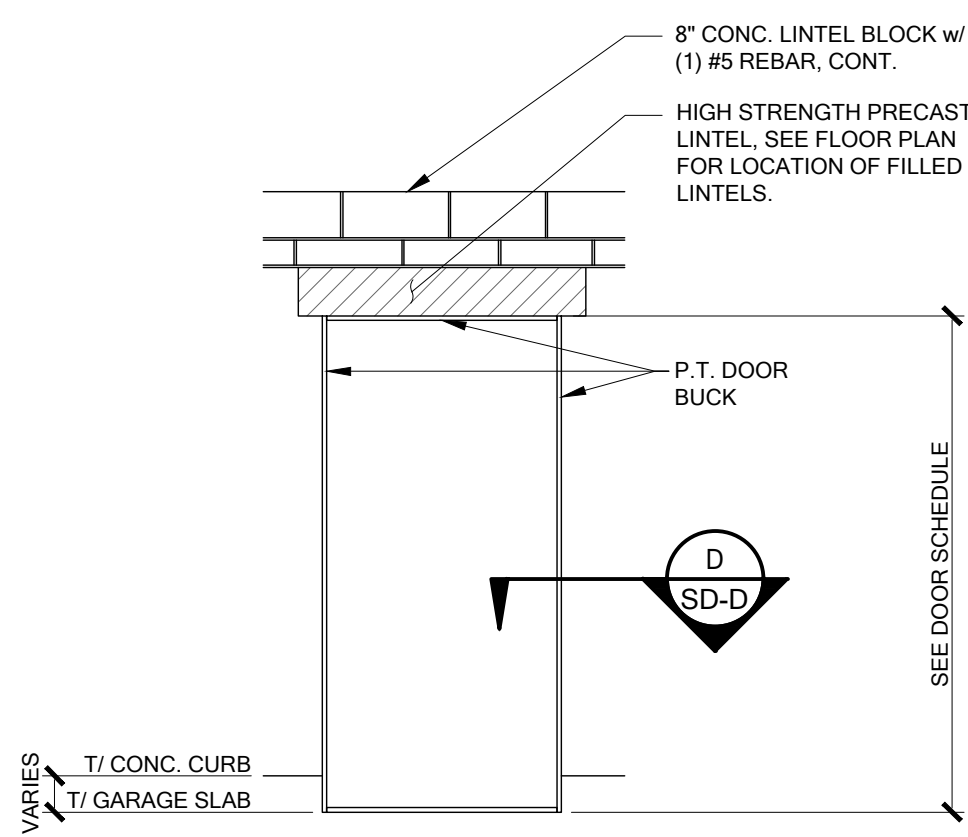
BRG. OR SHEAR WALL FRM'G @ HEADER w/ UPLIFT
SCALE: N.T.S.



E SLIDING GLASS DOOR ELEVATION
SCALE: N.T.S.



A SLIDING GLASS BUCK DETAIL
SCALE: N.T.S.



H OPTIONAL SERVICE DOOR
SCALE: N.T.S.

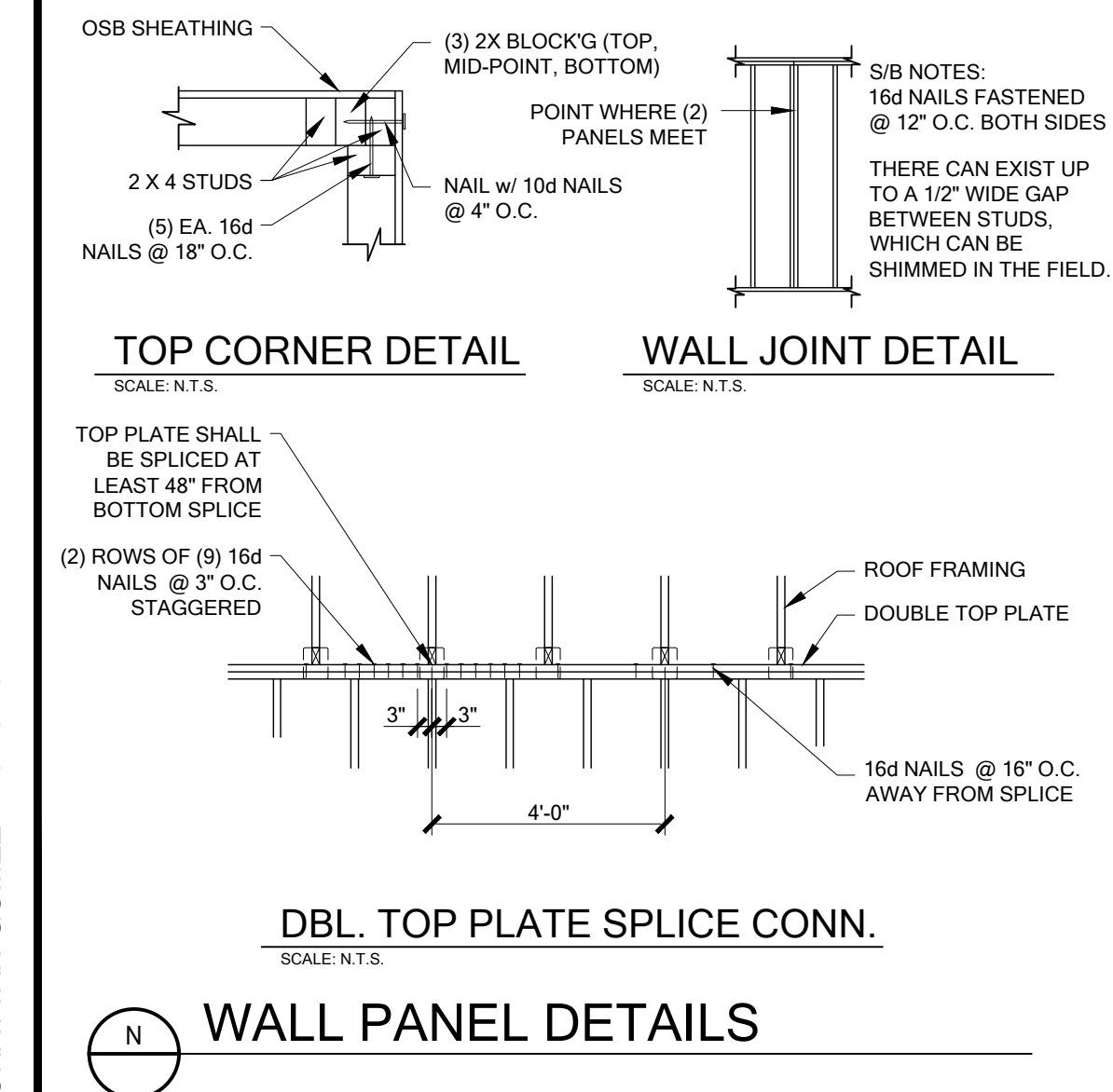
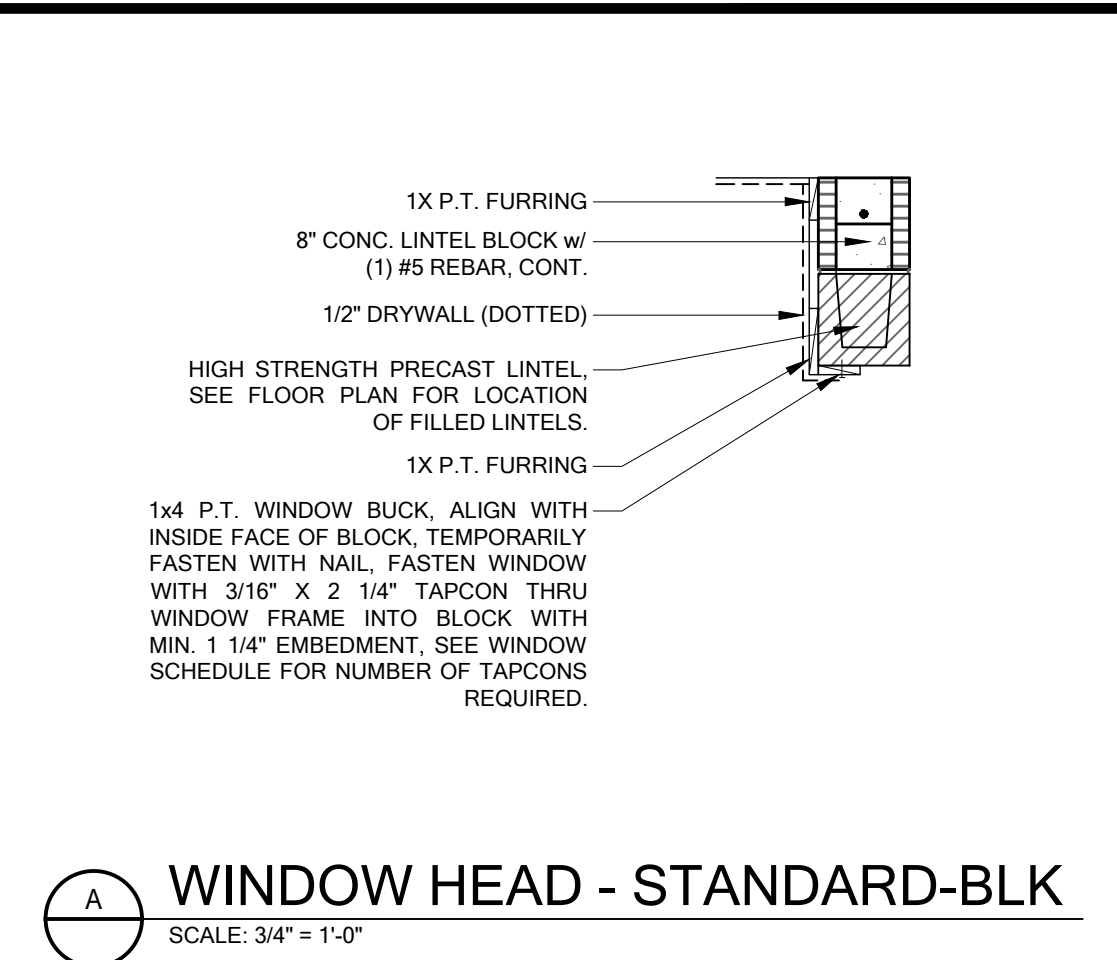
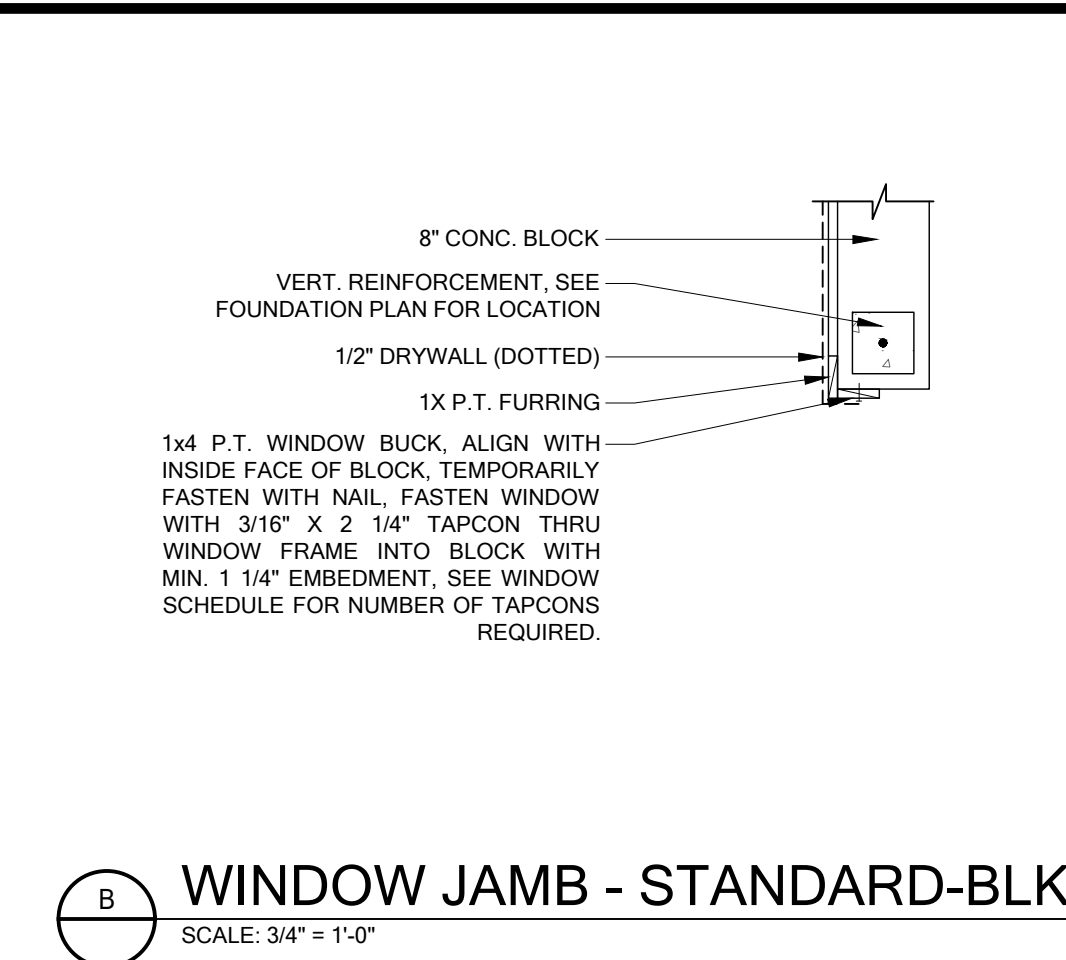
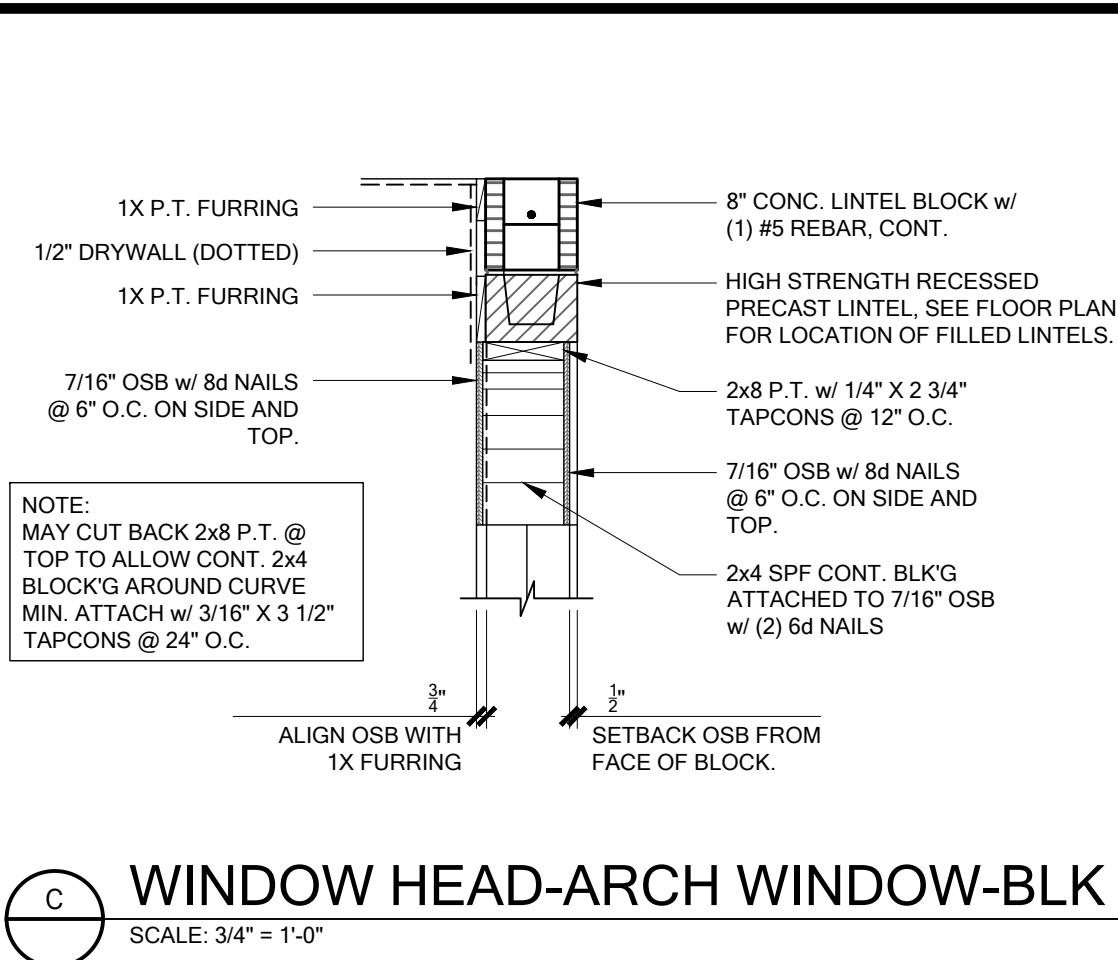
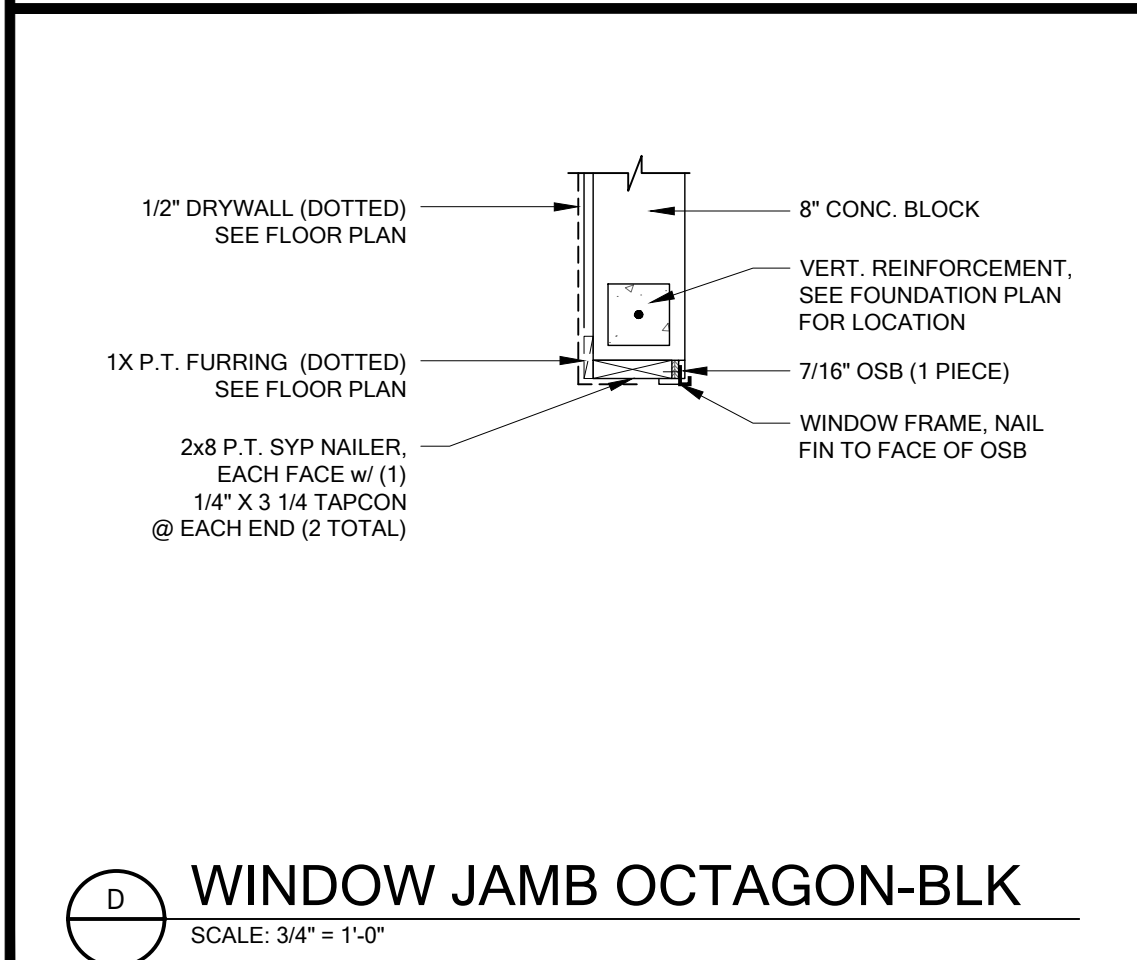
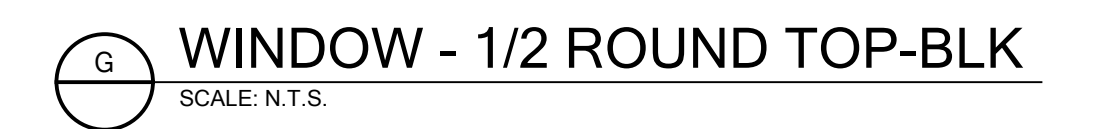
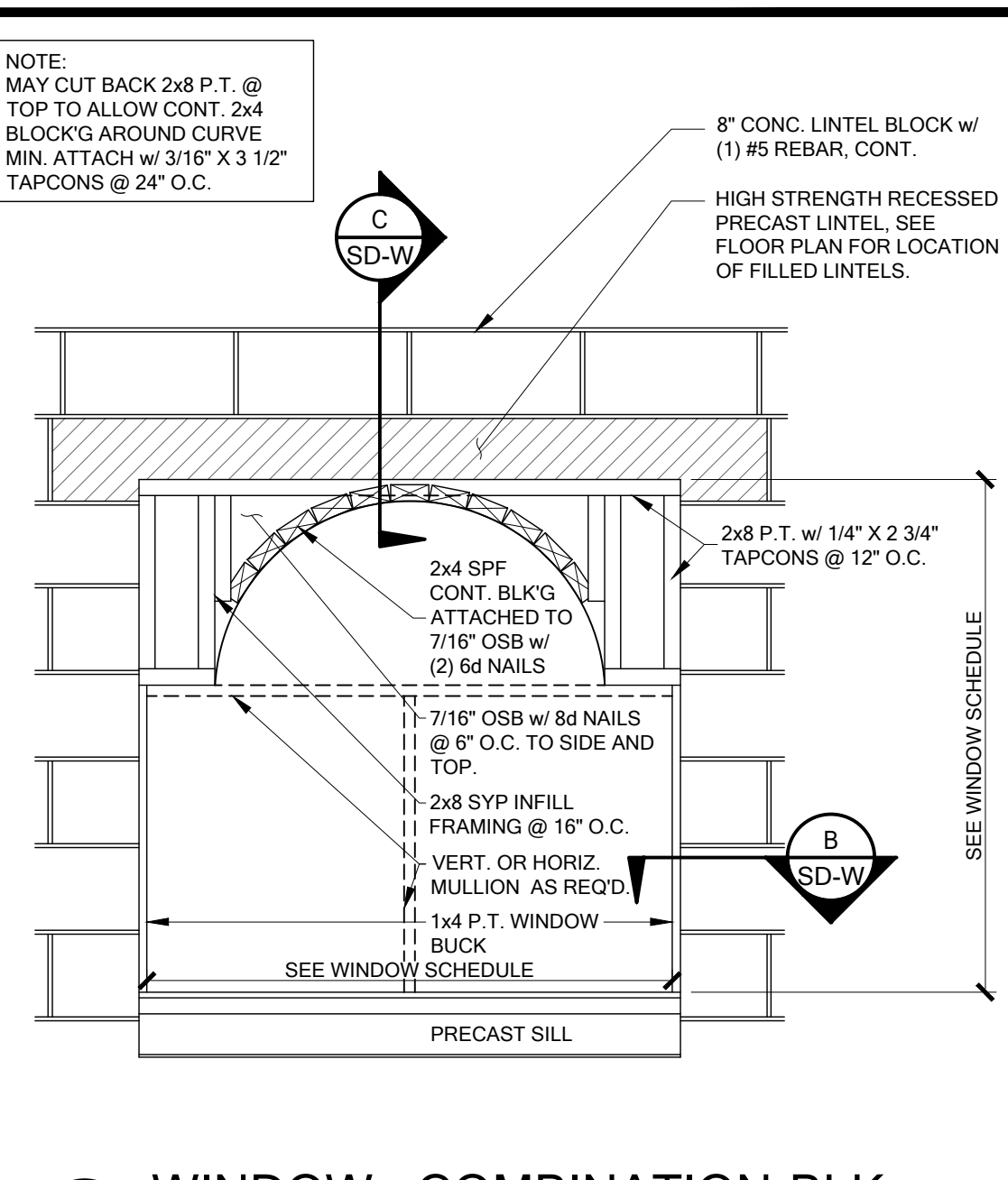
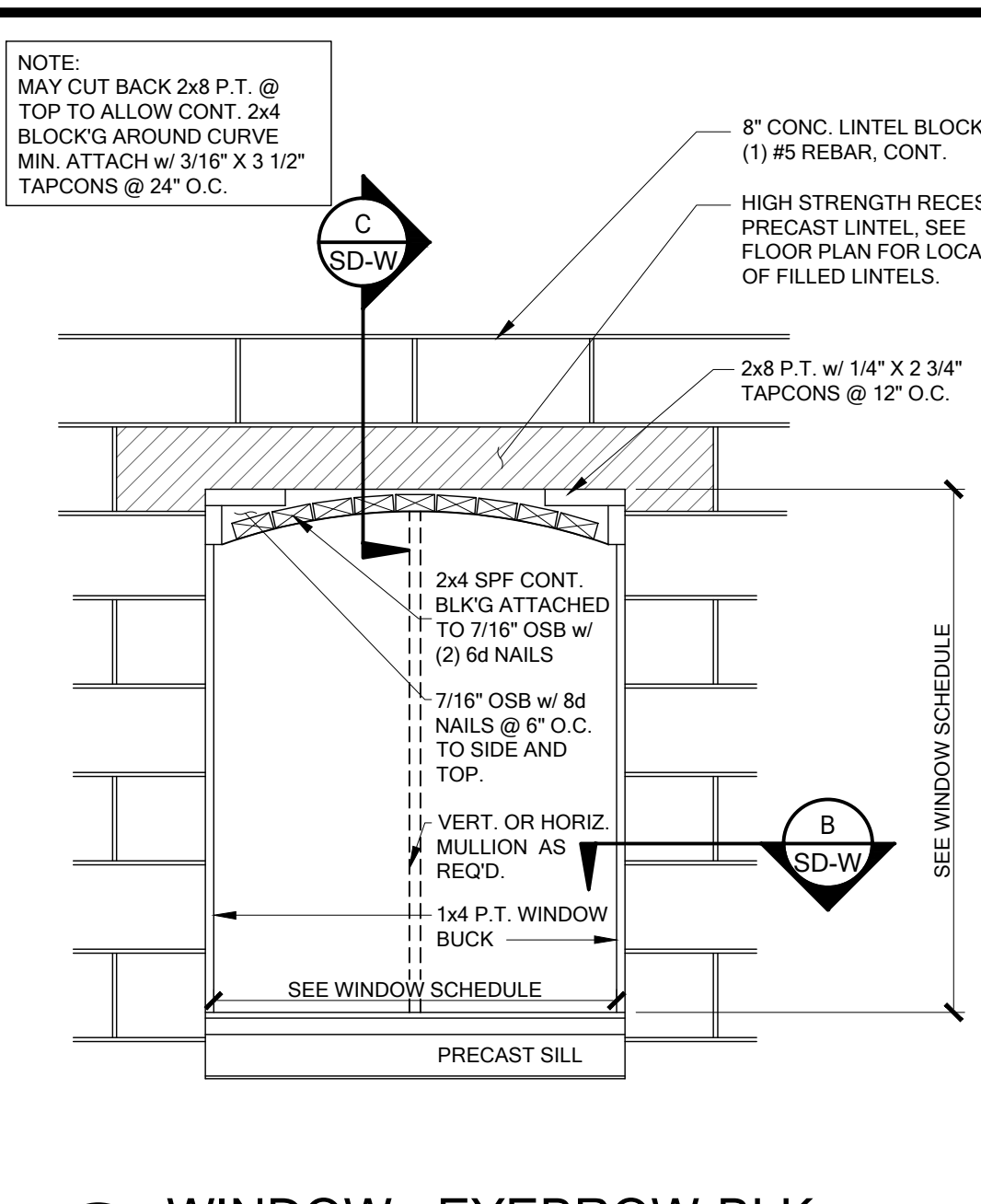
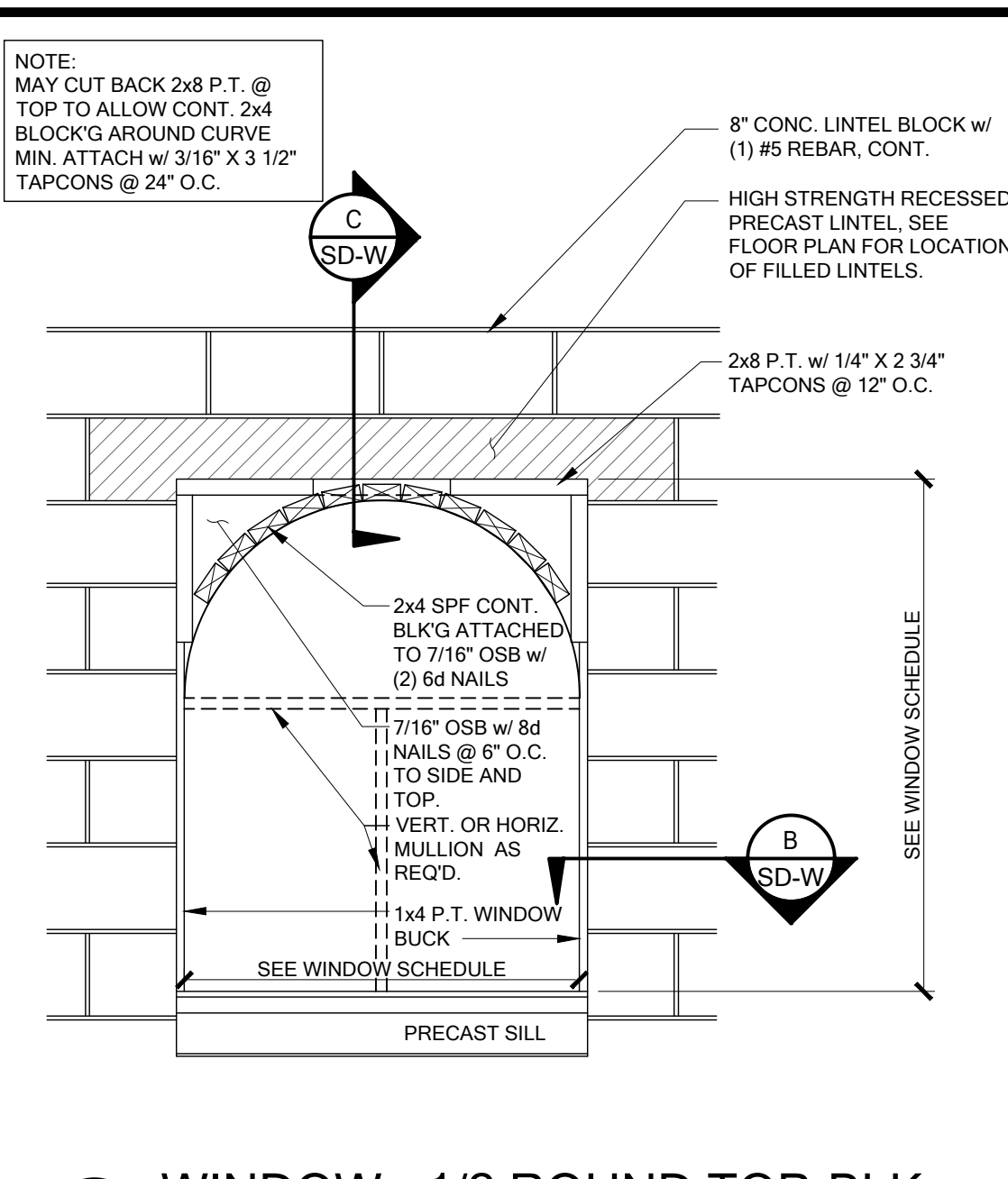
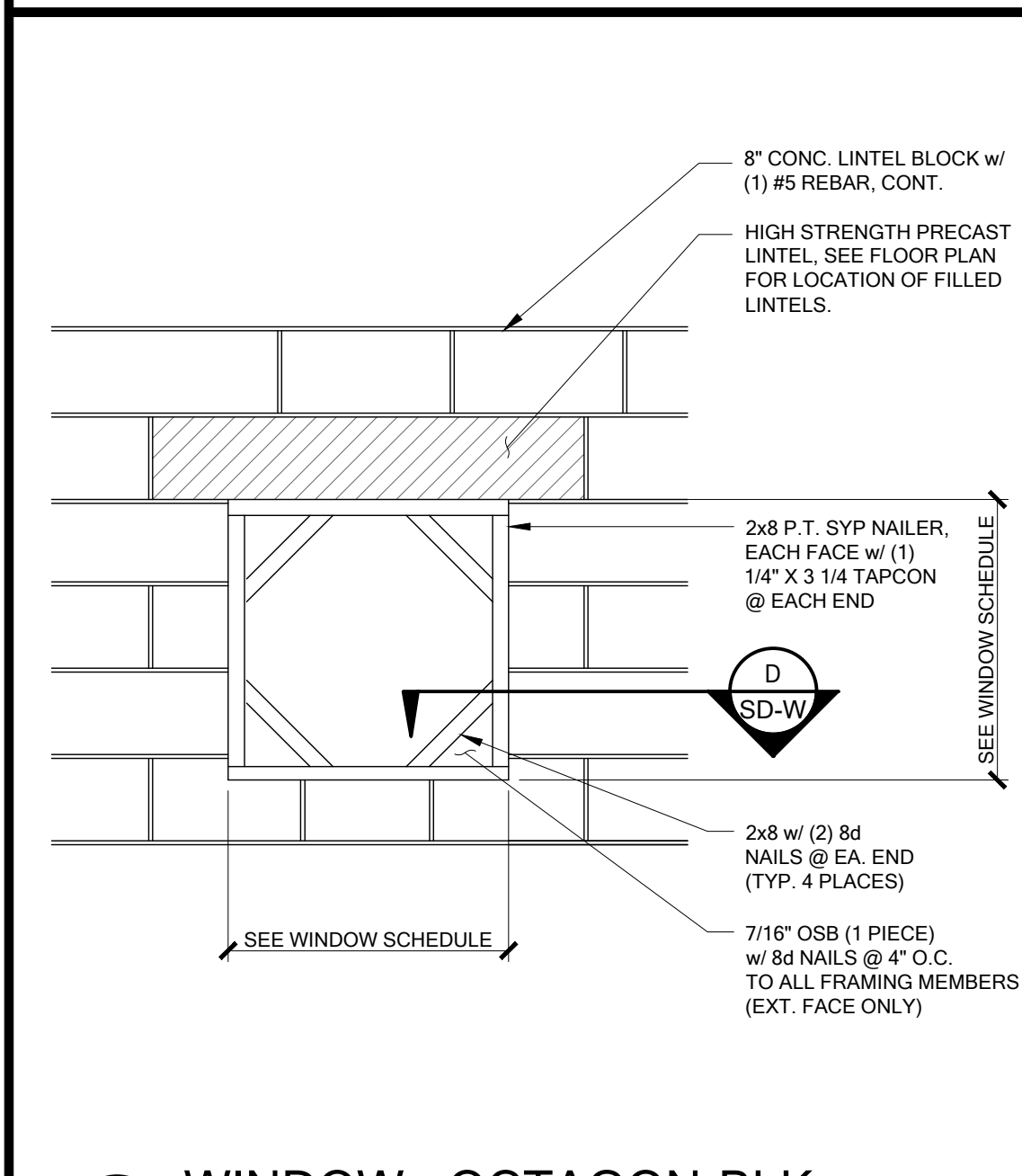
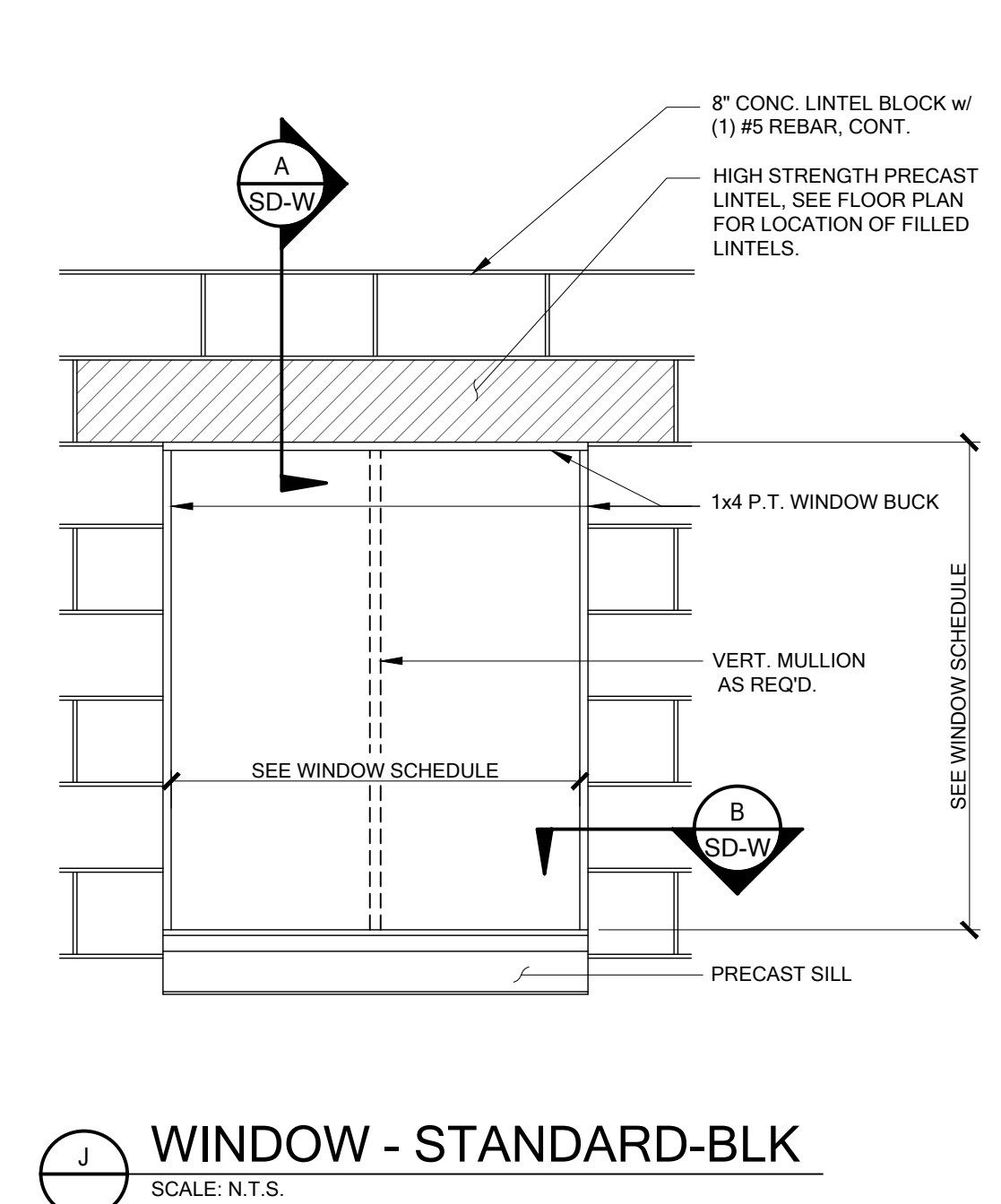
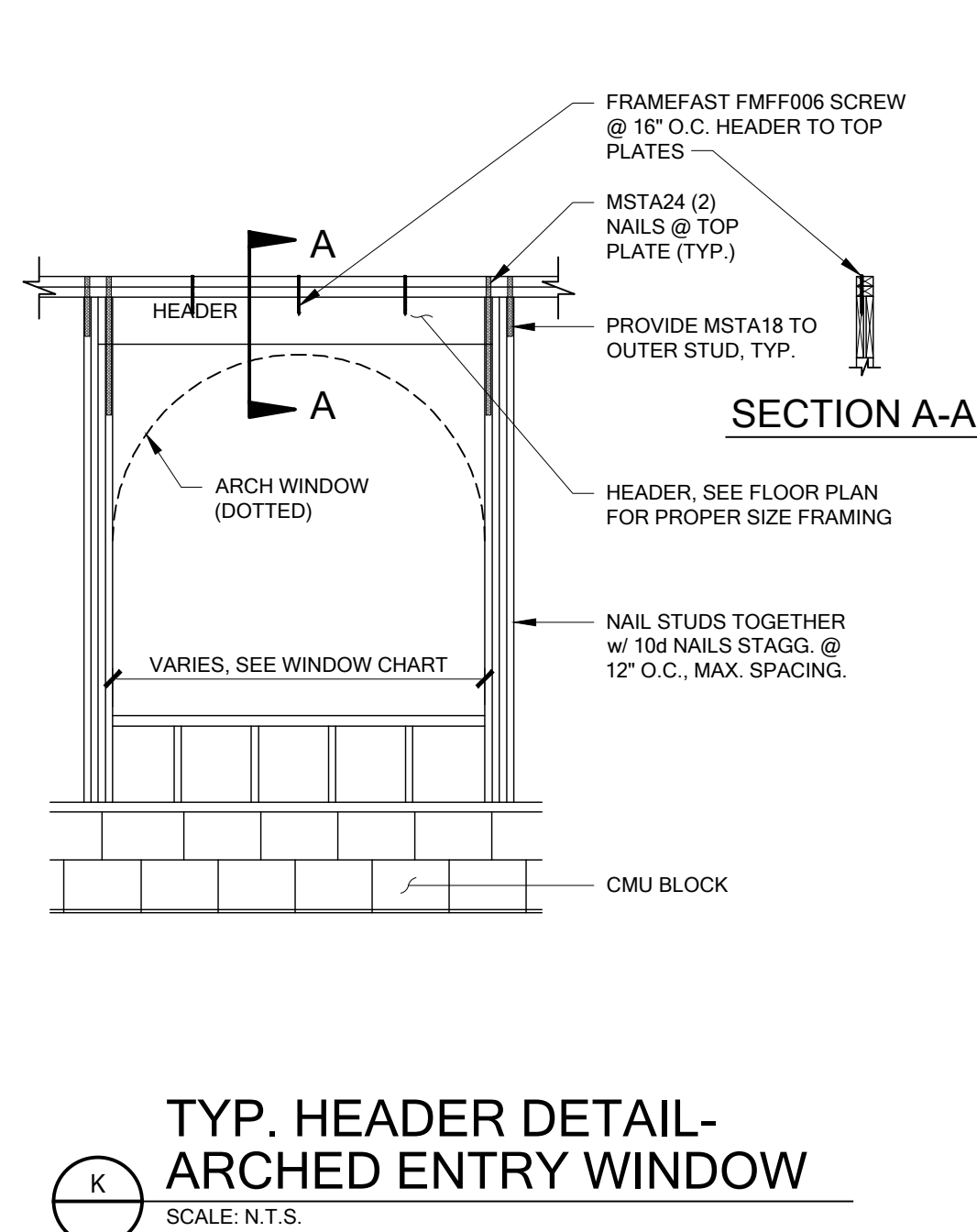
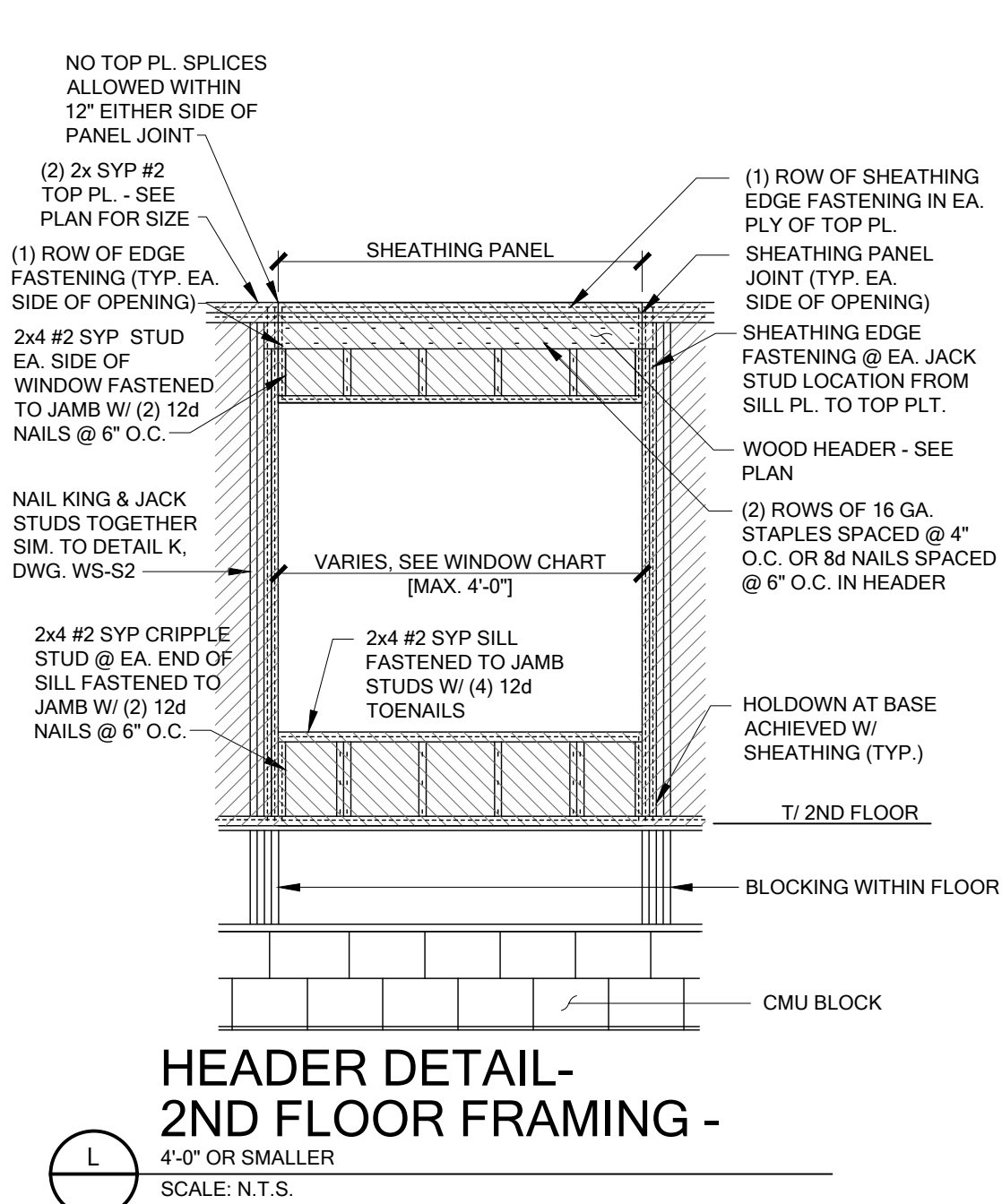
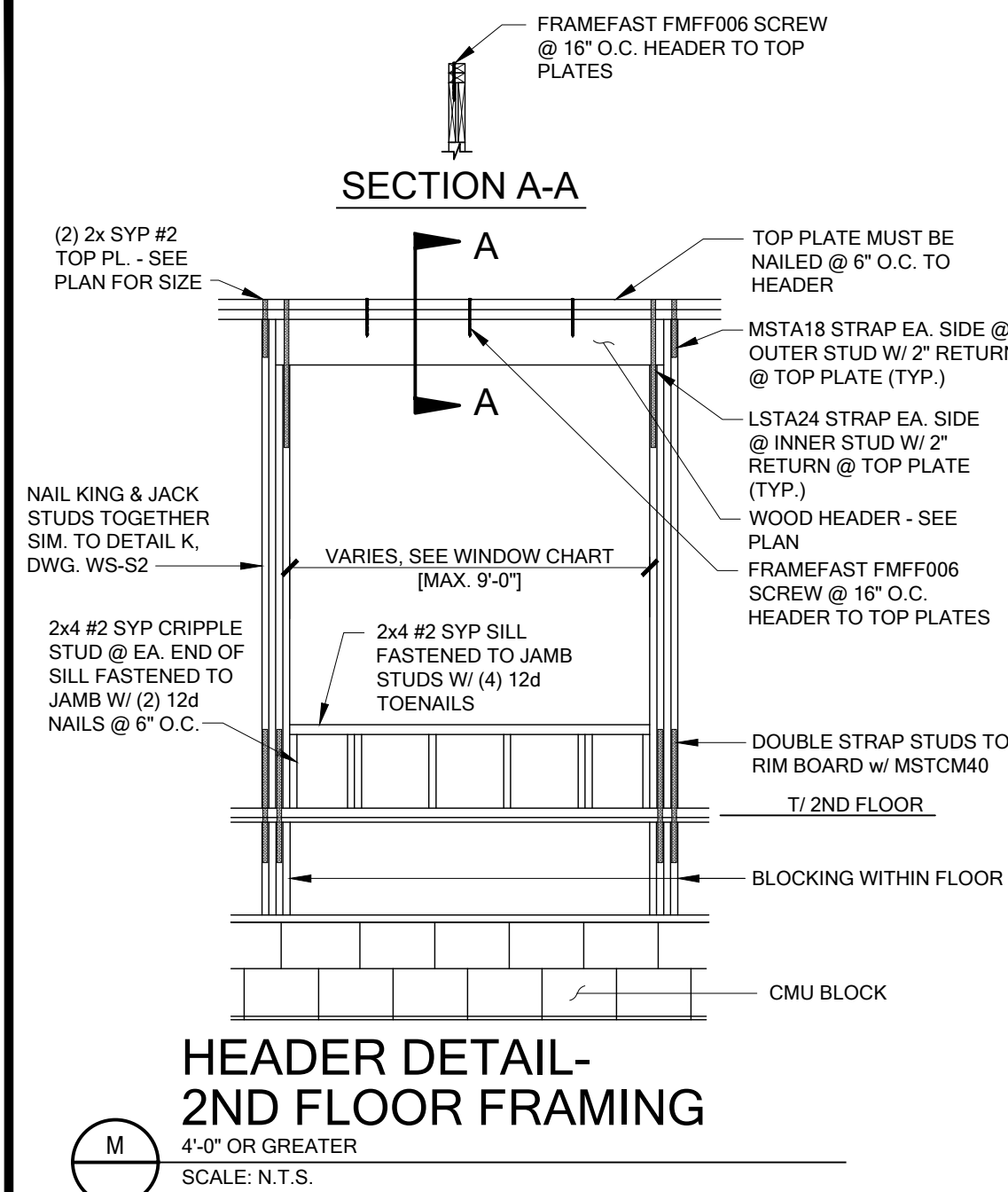
To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential life Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

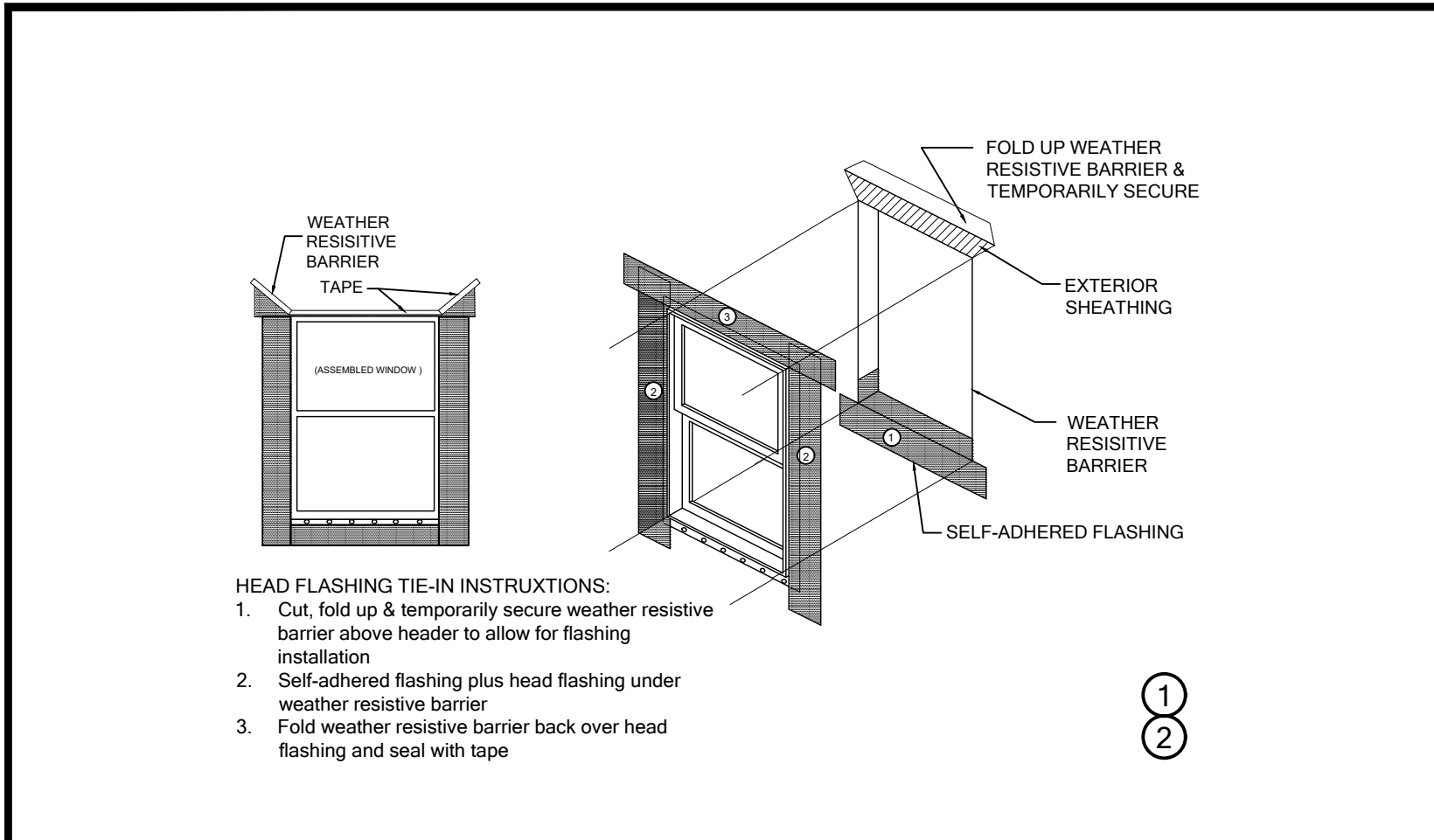
FDS
ENGINEERING ASSOCIATES
258 Southrail Lane, Suite 200
Ocala, FL 34474
O: 352-472-9451 F: 407-680-2304
www.fdseng.com
CA No. 9161 SCOTT A. LEWIS, P.E.
SCOTT A. LEWIS, P.E. - FL #2760
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Keese
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258 Southrail Lane, Maitland, FL 32751, Suite 200 | (407) 680-4320 x15
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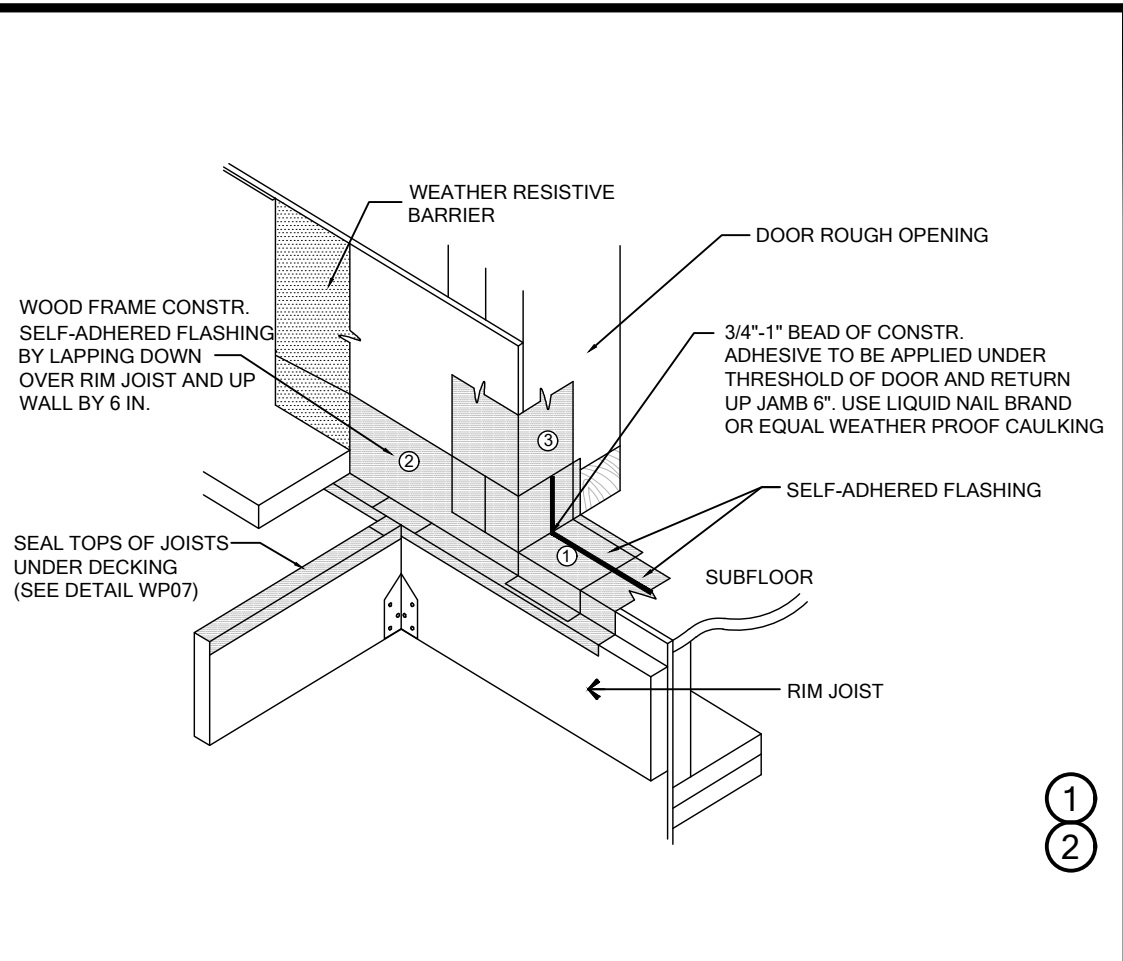
MARONDA Homes
3999 West First Street
Sanford, FL 32771
(407)302-9871

Community:	Forest Cove	Garage Side:	Right
Plan Name:	Willow	Elev - F	
Lot:	1	Block:	001
Address:	TBD Street A		
	Lake City, FL 32024		
Job no.	9FC00101		
Reference No.	24-04830		
Sheet			
	SD-D		
	DETAILS		

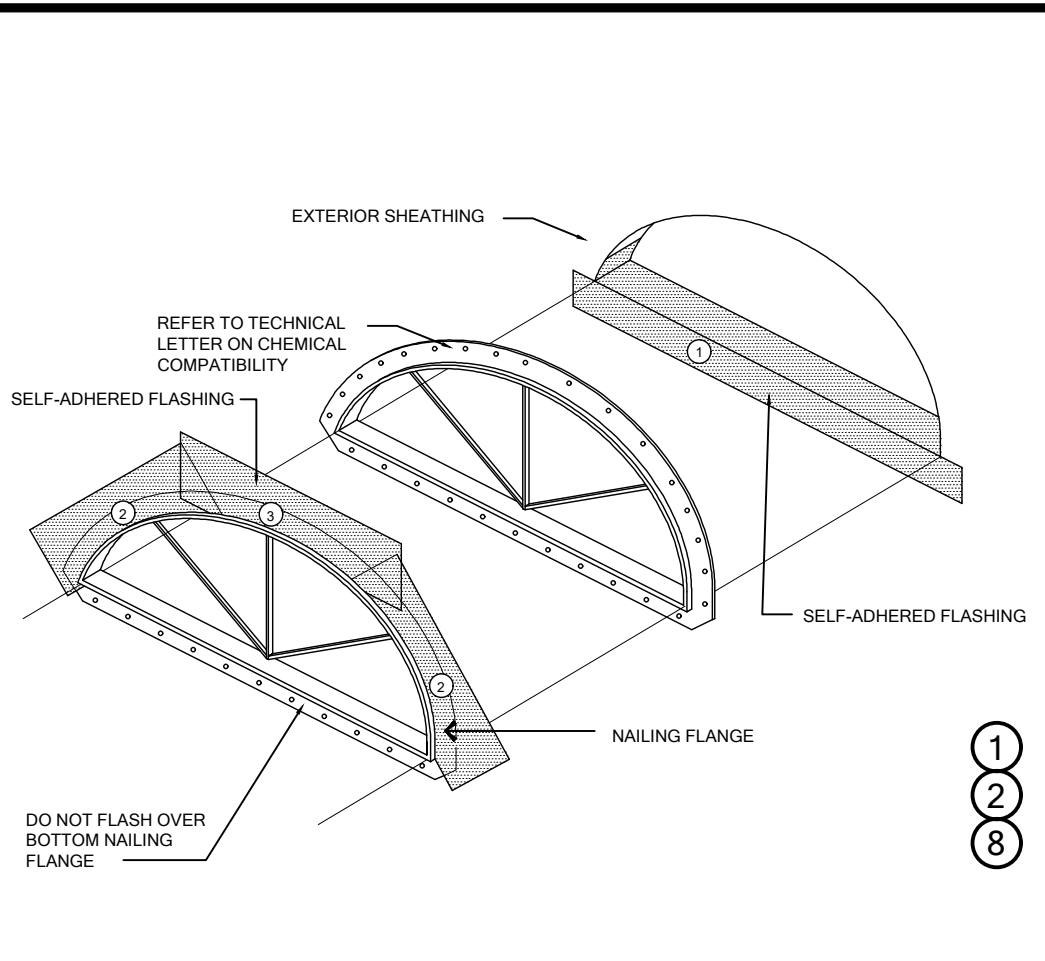




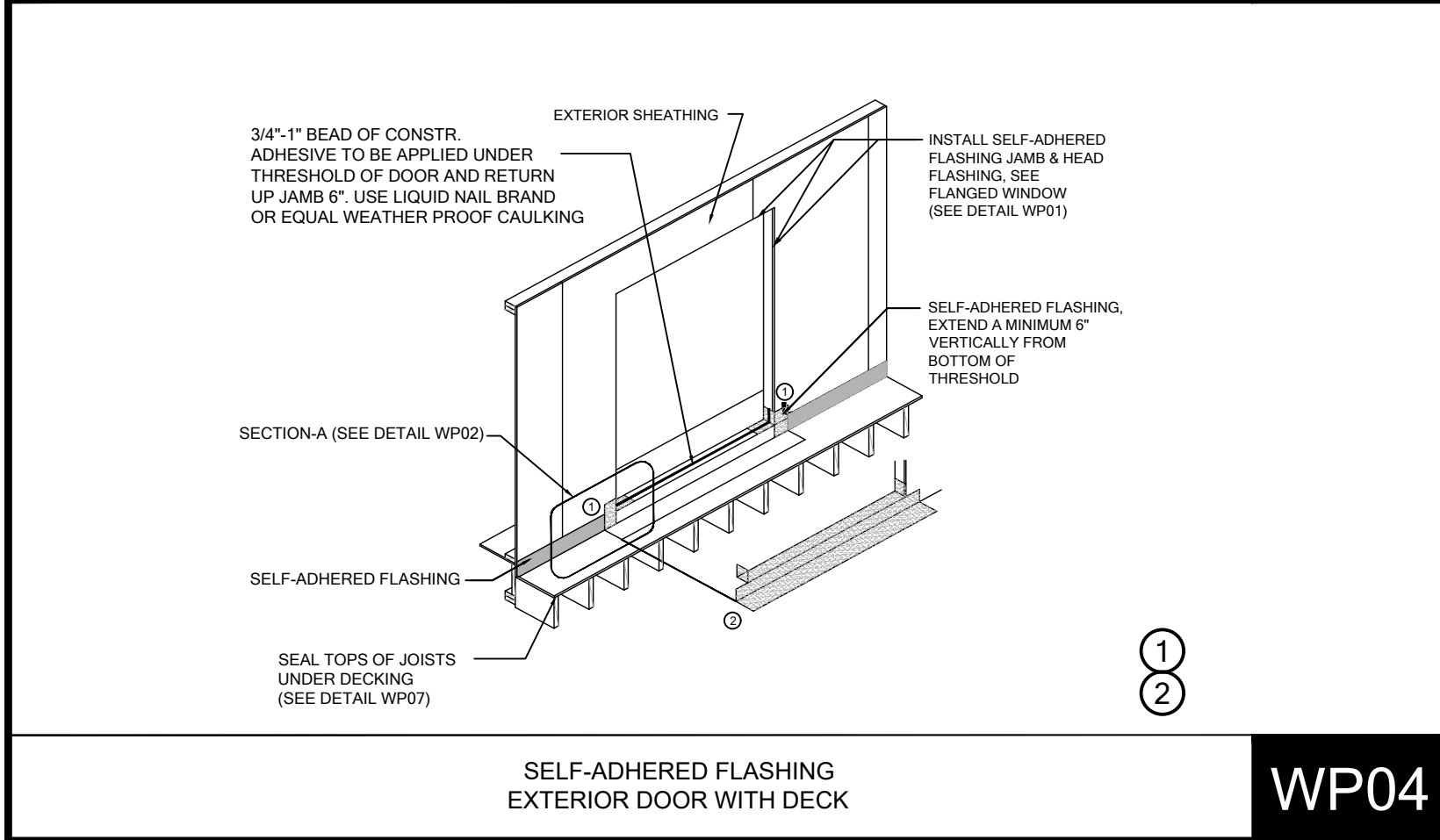
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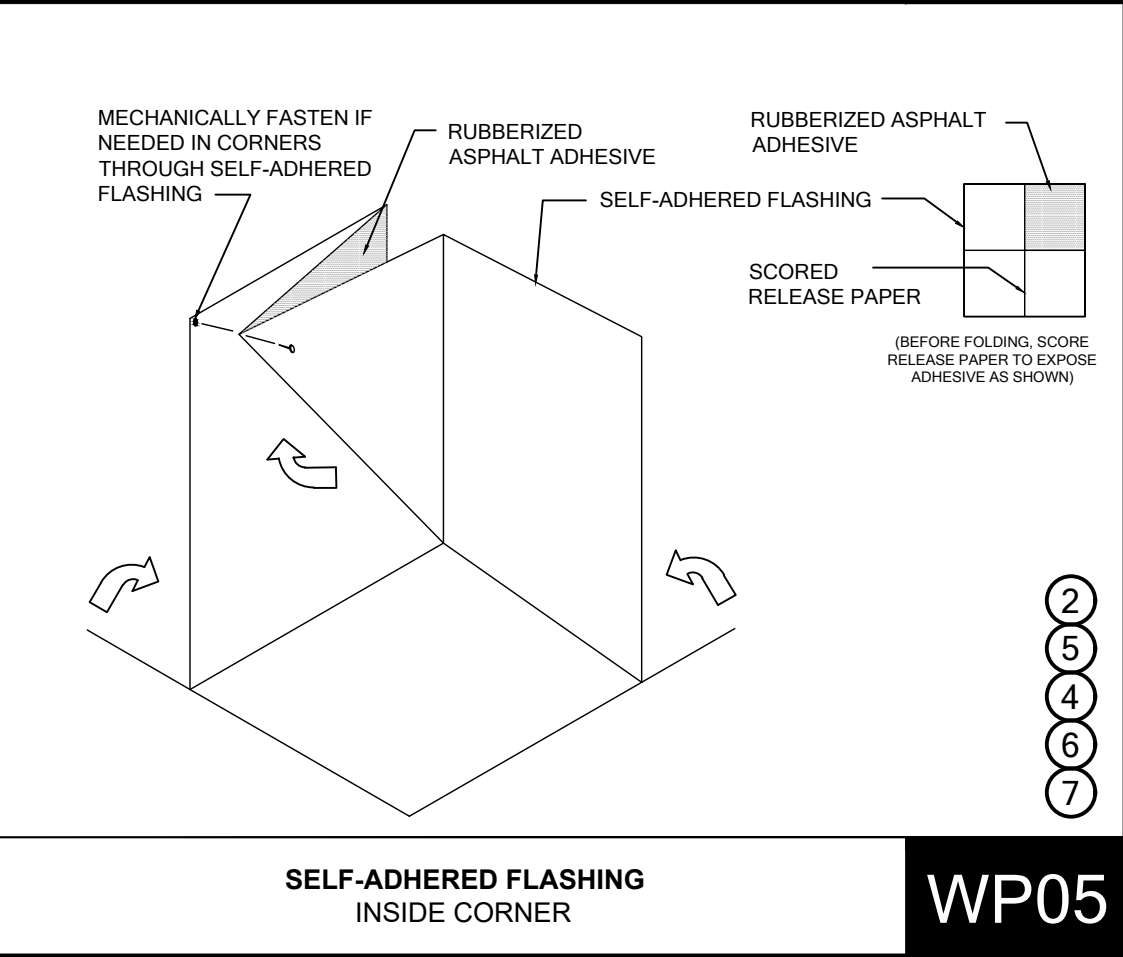
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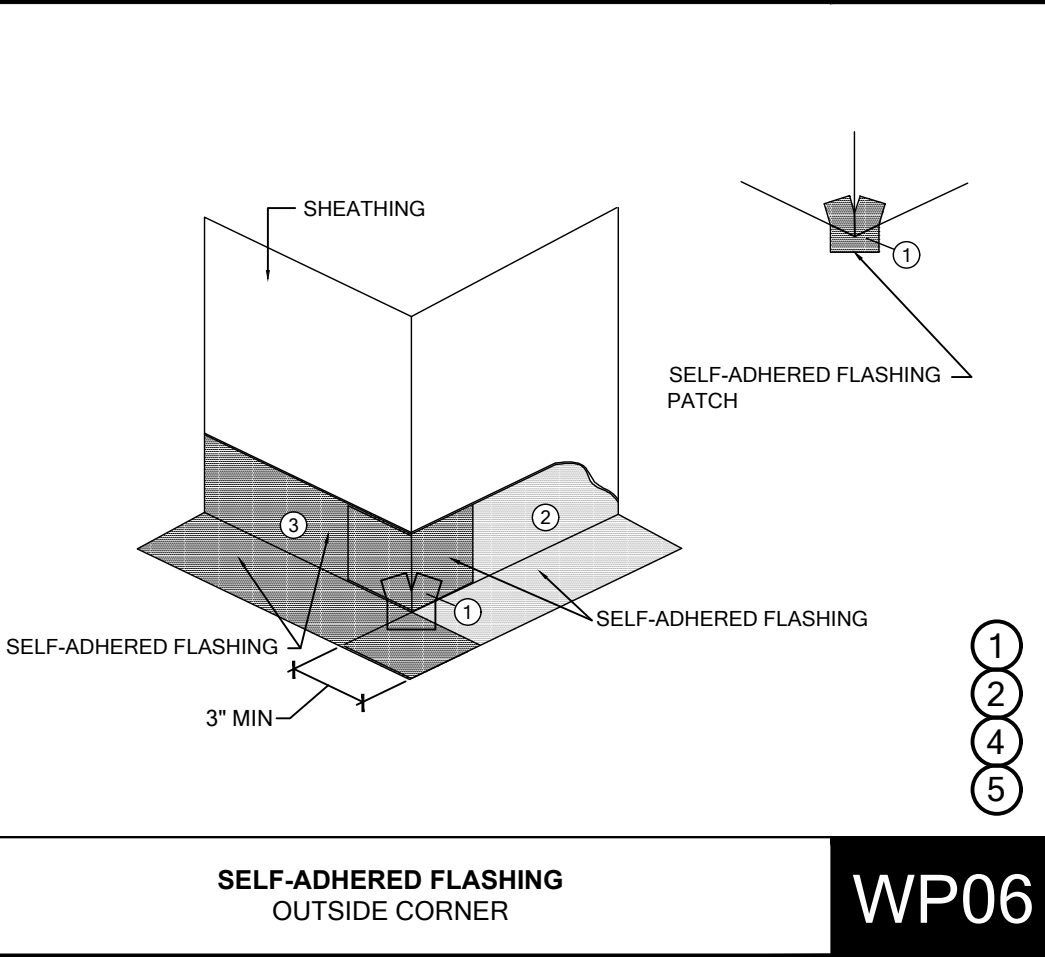
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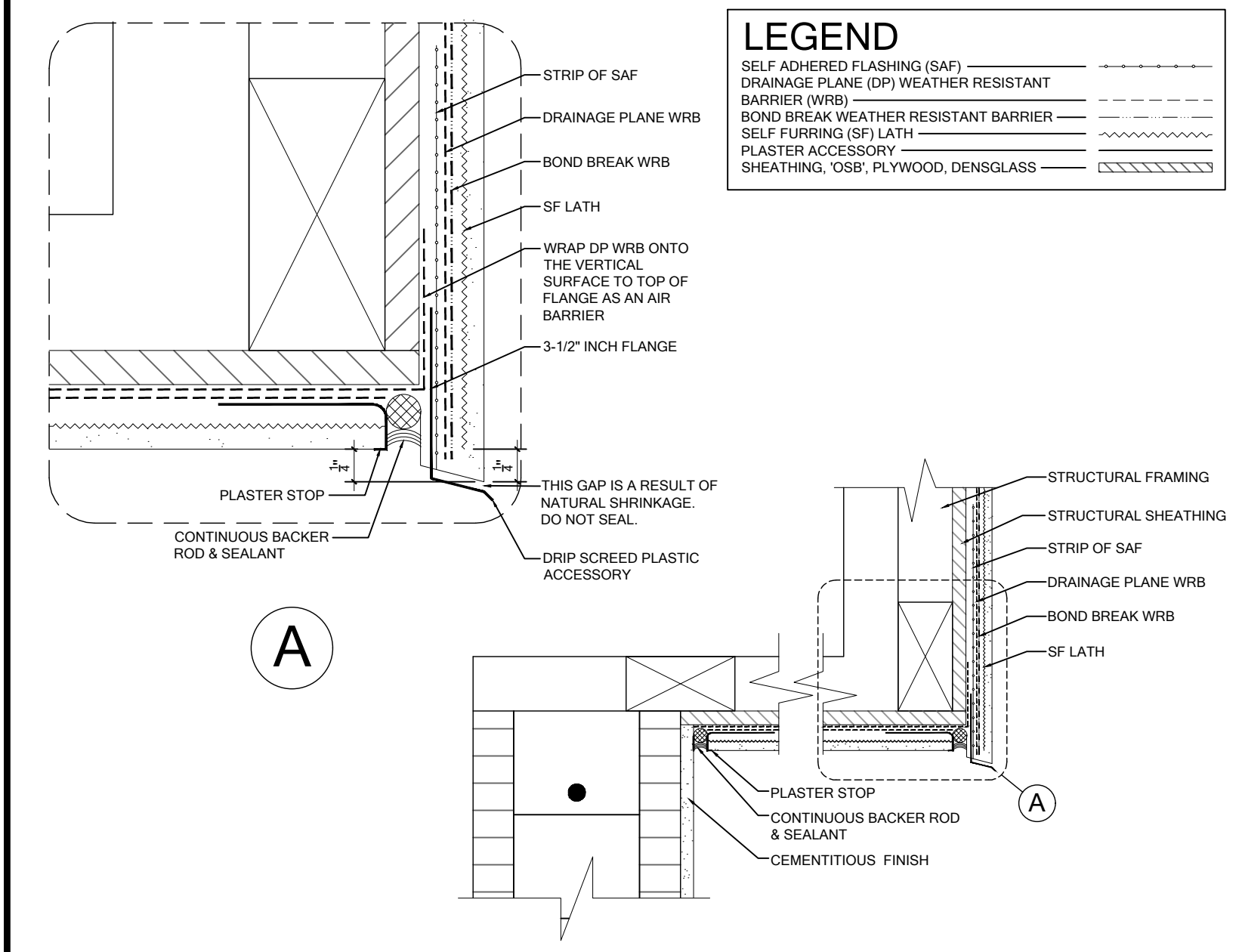
WP04



WP05



WP06



WP07

SELF-ADHERED FLASHING PRODUCTS DETAILS

WATER RESISTIVE BARRIERS ARE REQUIRED BEHIND STUCCO. AS PER FBC-R (CURRENT EDITION)

Detail Instructions
Refer to the number marked as (#) in each detail that corresponds to the numbered items in the list of instructions below:

1. Install self-adhered flashing in order as shown by numbers
2. Install flashing and weather resistive barrier to form water shedding laps
3. Self-adhered flashing can be substituted for building paper
4. Split the release paper using the ripcord (Split release on demand, embedded in the adhesive layer) - for ease of installation and to minimize scoring cuts
5. Remove all release paper per standard installation instructions and adhere to substrate using a square piece of flashing material (6" x 6" Minimum)
6. Fold as shown by arrows
7. Angle of corner may vary, adjust folding of the flashing accordingly to fit tight to corner
8. Mechanically fasten as necessary

FLASHING REQUIREMENTS

R703.1 General. Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.4.

R703.1.1 Water resistance. The exterior wall envelope shall be designed and constructed in a manner that prevents the accumulation of water within the wall assembly by providing a water-resistant barrier behind the exterior cladding as required by Section R703.2 and a means of draining to the exterior water that penetrates the exterior cladding.

R703.2 Water-resistive barrier. Not fewer than one layer of water-resistive barrier shall be applied over studs or sheathing of all exterior walls with flashing as indicated in Section R703.4, in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer. The water-resistive barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1. Water-resistive barrier materials shall comply with one of the following:

1. No. 15 felt complying with ASTM D226, Type 1.
2. ASTM E2568, Type 1 or 2.
3. ASTM E331 in accordance with Section R703.11.
4. Other approved materials in accordance with the manufacturer's installation instructions.

No. 15 asphalt felt and water-resistive barriers complying with ASTM E2556 shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51 mm), and where joints occur, shall be lapped not less than 6 inches (152 mm).

R703.7.3 Water-resistive barriers Water-resistive barriers shall be installed as required in Section R703.2 and, where applied over wood-based sheathing, shall include a water-resistive vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing (installed in accordance with Section R703.4) intended to drain to the water-resistive barrier is directed between the layers.

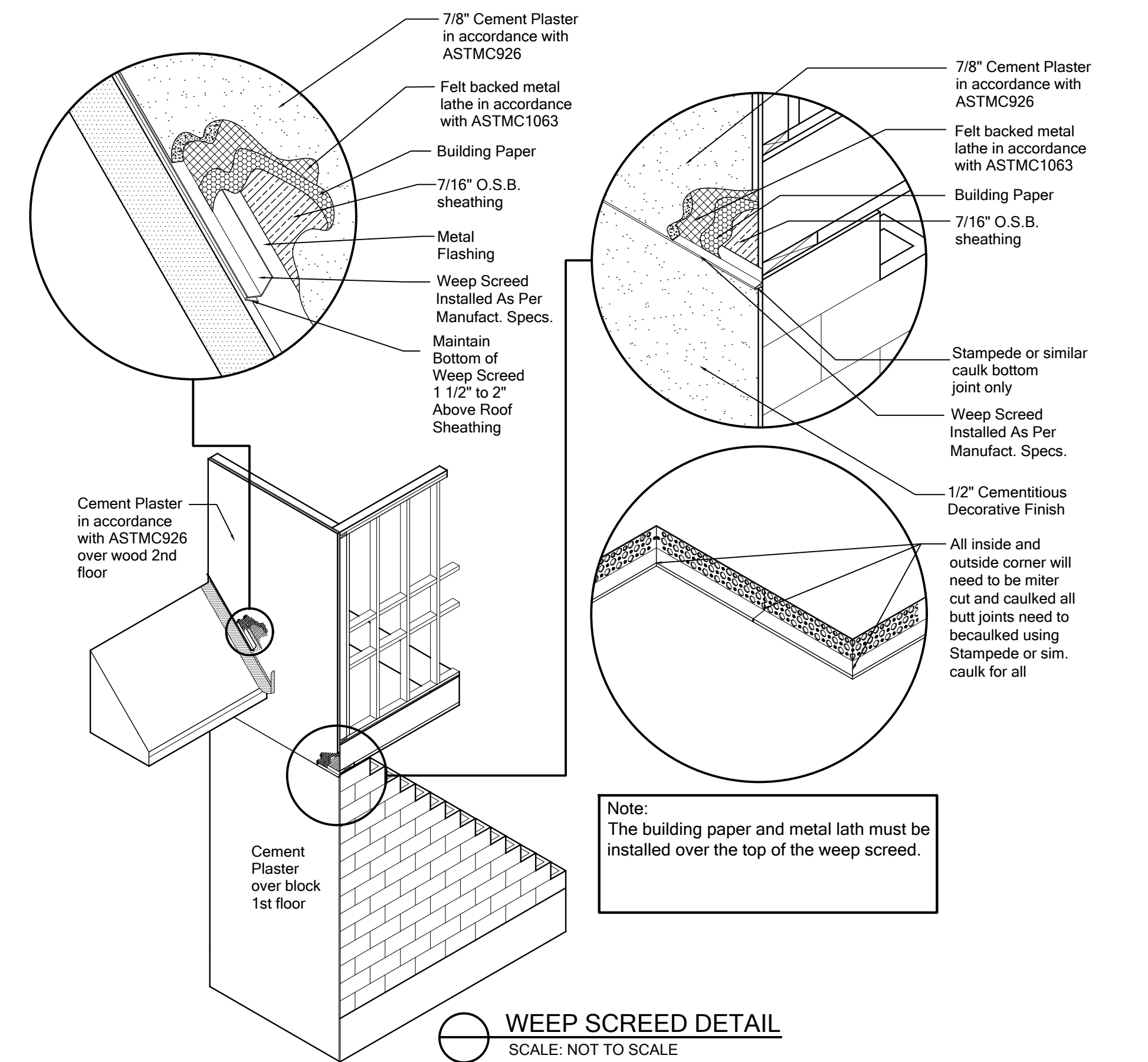
Exception: Where the water-resistive barrier that is applied over wood-based sheathing has a water resistance equal to or greater than that of 60-minute Grade D paper and is separated from the stucco by an intervening, substantially nonwater-absorbing layer or designed drainage space.

R703.4 Flashing. Approved metal flashing, vinyl flashing, self-adhered membranes and mechanically attached flexible flashing shall be applied shingle-fashion or in accordance with the manufacturer's instructions. Metal flashing shall be corrosion resistant. Fluid-applied membranes used as flashing shall be applied in accordance with the manufacturer's instructions. All flashing shall be applied in a manner to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components.

Self-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C920 Class 25 Grade NS or greater for proper joint expansion and contraction, ASTM C1281, AAMA 812, or other approved standard as appropriate for the type of sealant. Fluid-applied membranes used as flashing in exterior walls shall comply with AAMA 714. The flashing shall extend to the surface of the exterior wall finish. Approved flashings shall be installed at the following locations:

1. Exterior window and door openings. Flashing at exterior window and door openings shall extend to the surface of the exterior wall finish or to the water-resistive barrier complying with Section 703.2 for subsequent drainage. Mechanically attached flexible flashings shall comply with AAMA 712. Flashing at exterior window and door openings shall be installed in accordance with one or more of the following:
 - 1.1 The fenestration manufacturer's installation and flashing instructions, or for applications not addressed in the fenestration manufacturer's instructions, in accordance with the flashing or water-resistive barrier manufacturer's instructions. Where flashing instructions or details are not provided, pan flashing shall be installed at the sill of exterior window and door openings. Pan flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water resistive barrier for subsequent drainage. Openings using pan flashing shall incorporate flashing or protection at the head and sides.
 - 1.2 In accordance with the flashing design or method of a registered design professional.
 - 1.3 In accordance with other approved methods.
 - 1.4 In accordance with FMA/AAMA 100, FMA/ AAMA 200, FMA/WDMA 250, FMA/AAMA/ WDMA 300, FMA/AAMA/WDMA 400 or FMA/AAMA/WDMA 2710.
2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
3. Under and at the ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting wood trim.
5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
6. At wall and roof intersections.
7. At built-in gutters.

THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED.



FOR COUNTY USE ONLY

06 / 28 / 2024

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential (1st Edition). Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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www.keese.com
AL

MARONDA Homes
3999 West First Street
Sanford, FL 32771
(407) 302-9871

Community:	Forest Cove
Plan Name:	Willow
Garage Side:	Right
Elev - F	
Lot:	1
Block:	001
Address:	TBD Street A Lake City, FL 32024
Job no.	9FC00101

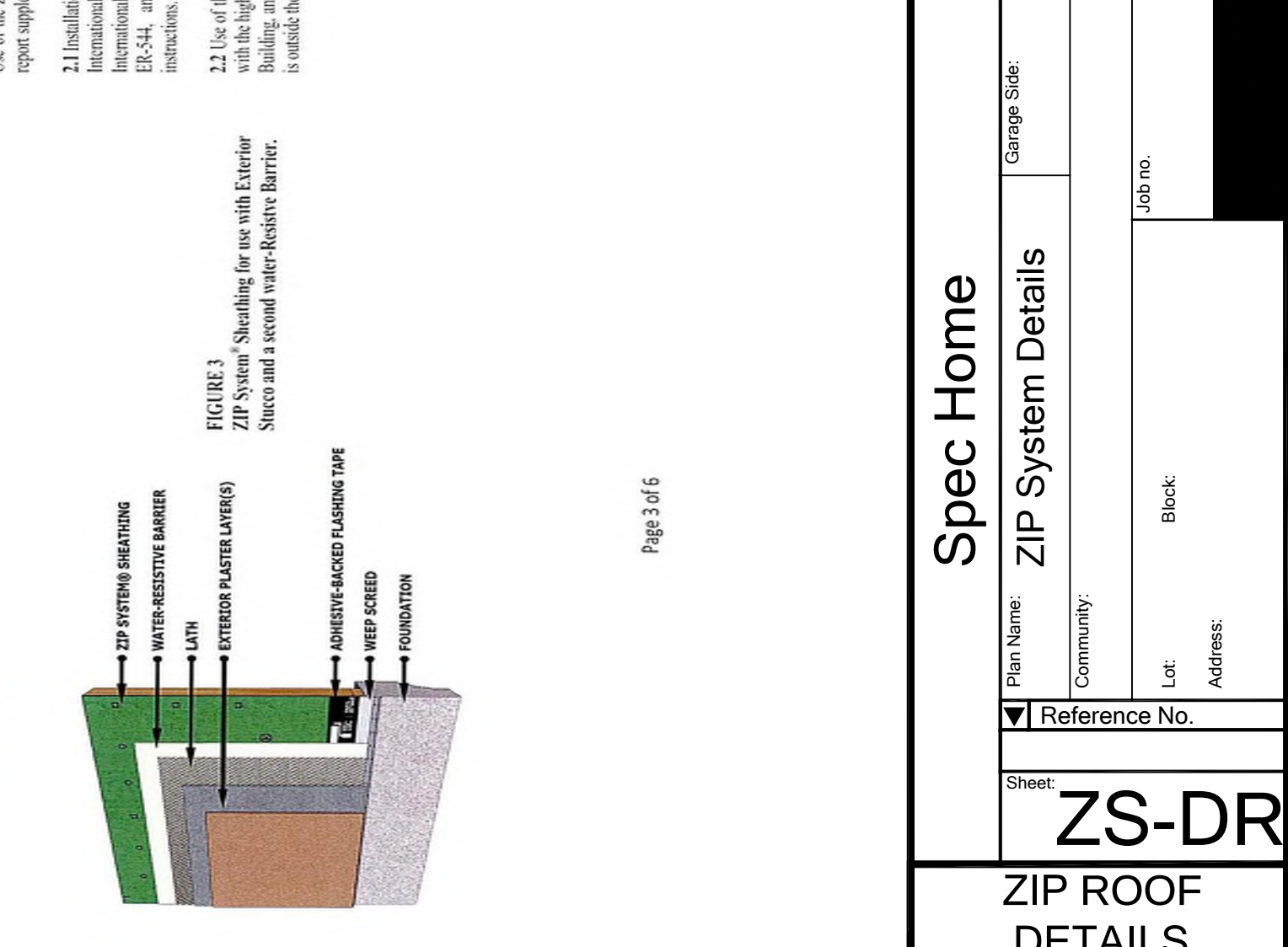
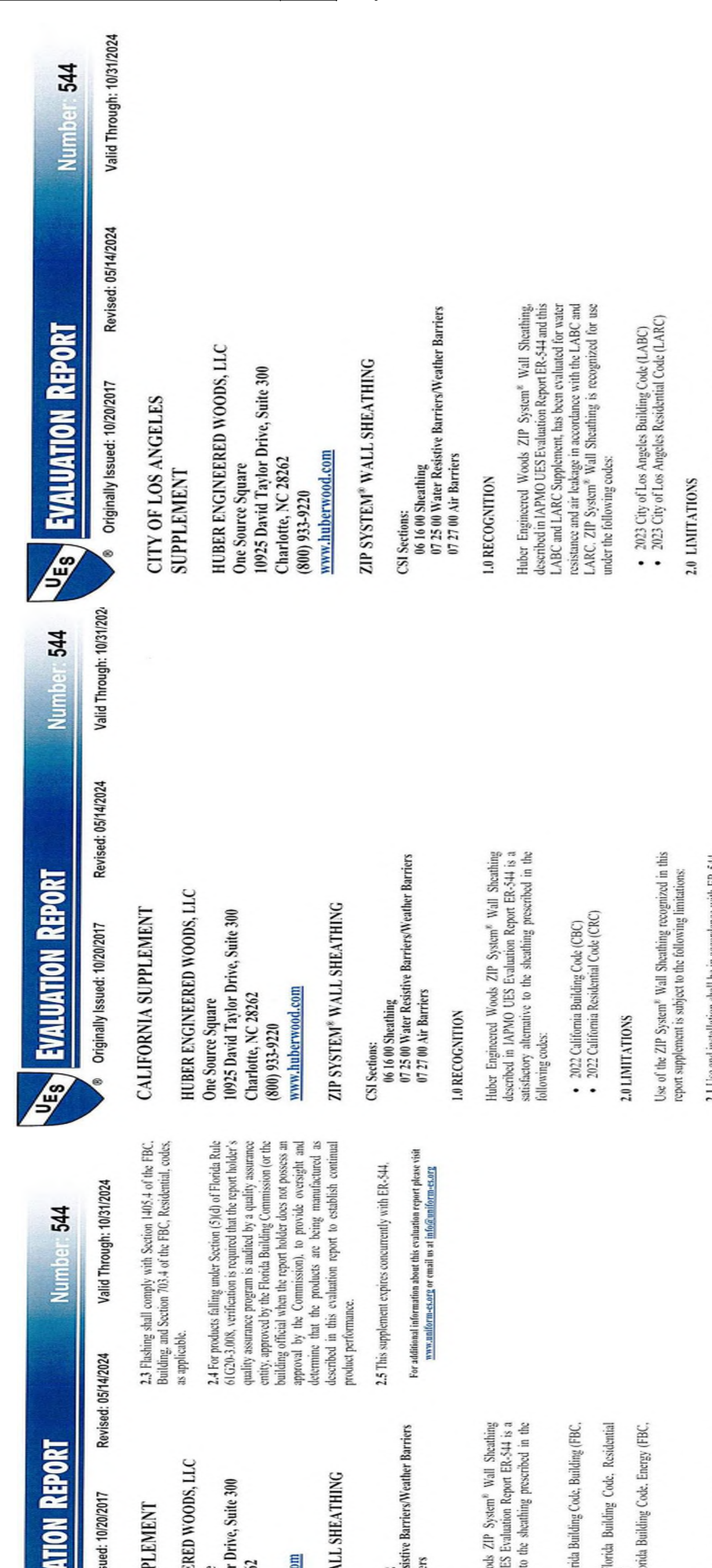
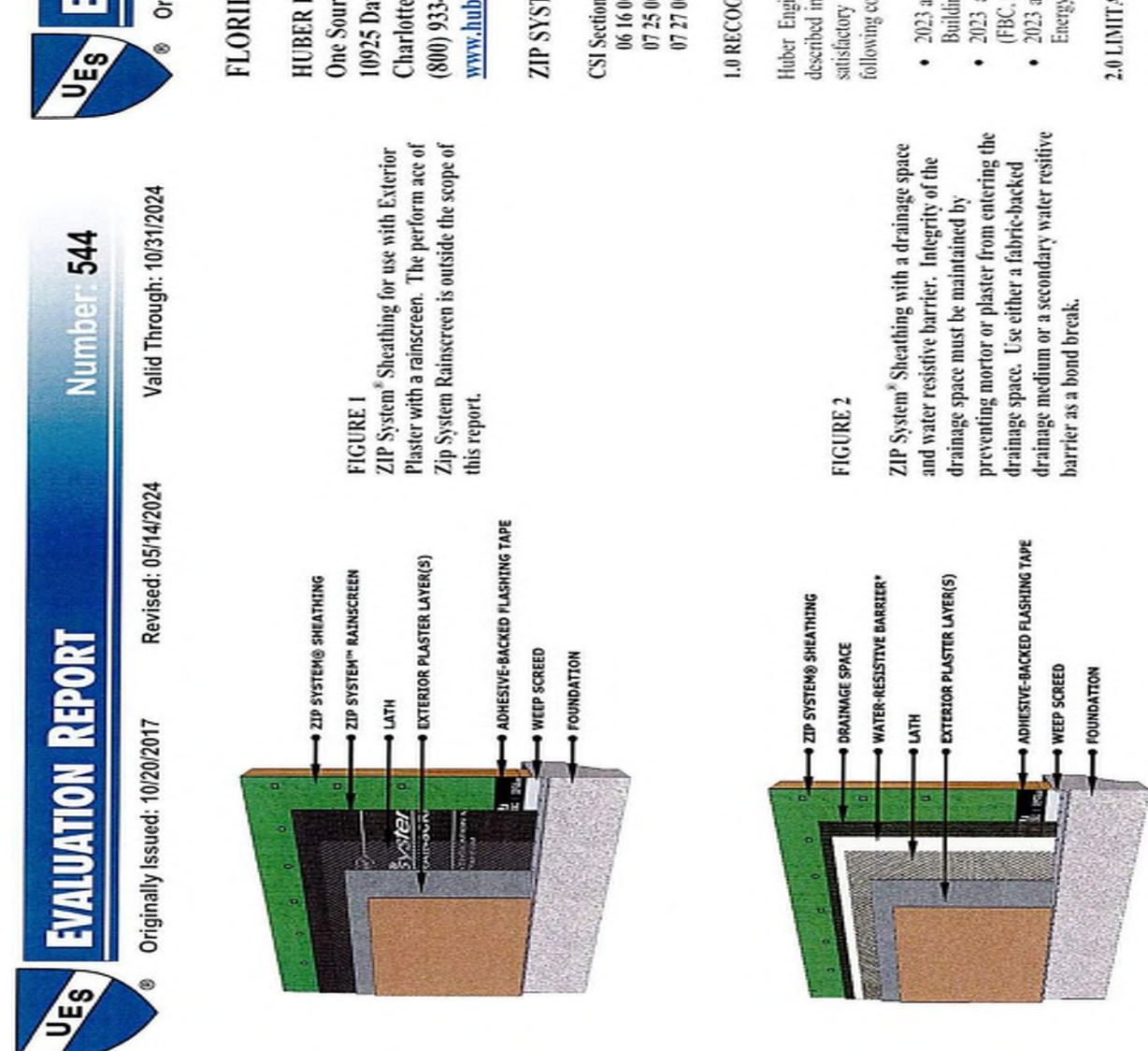
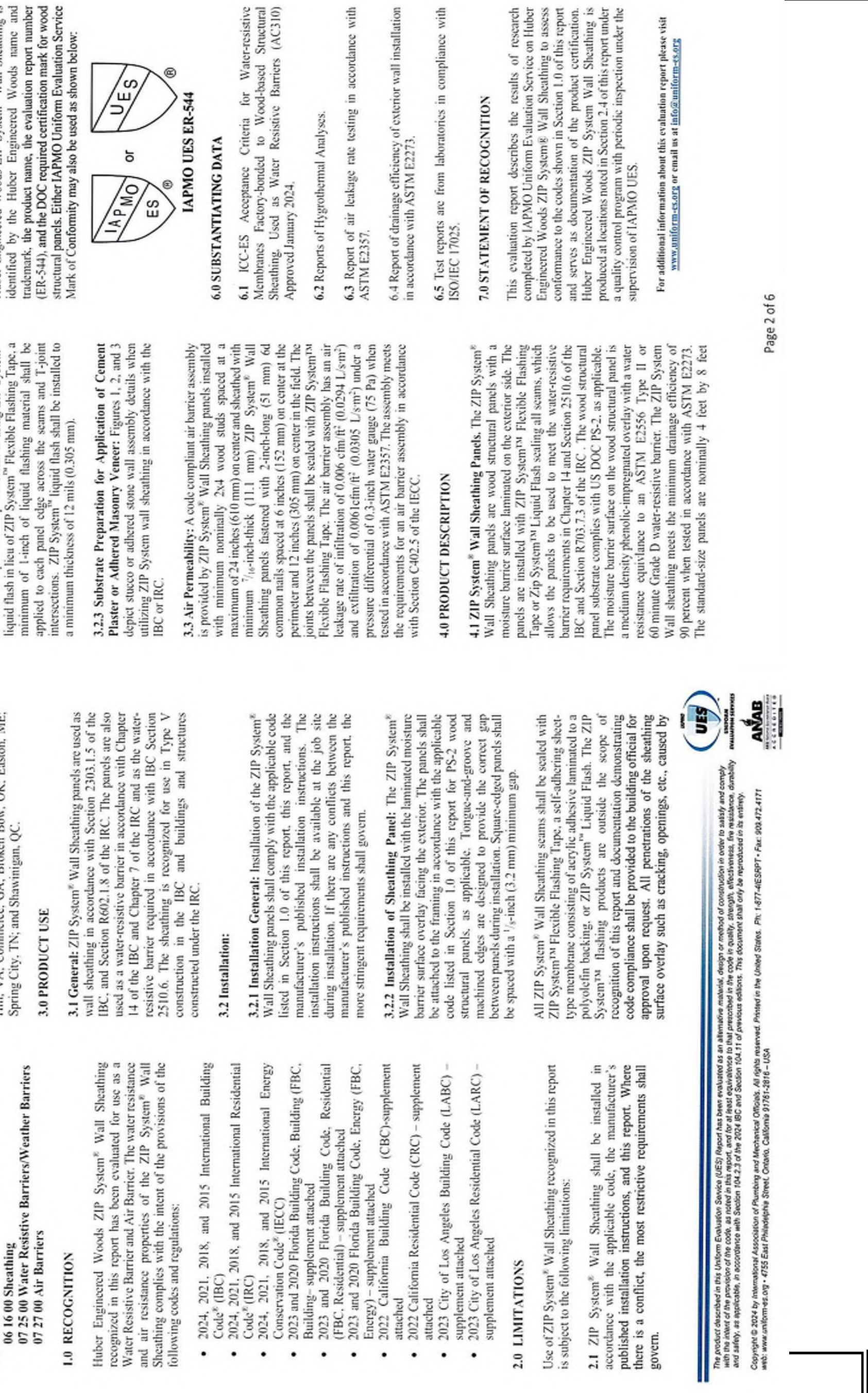
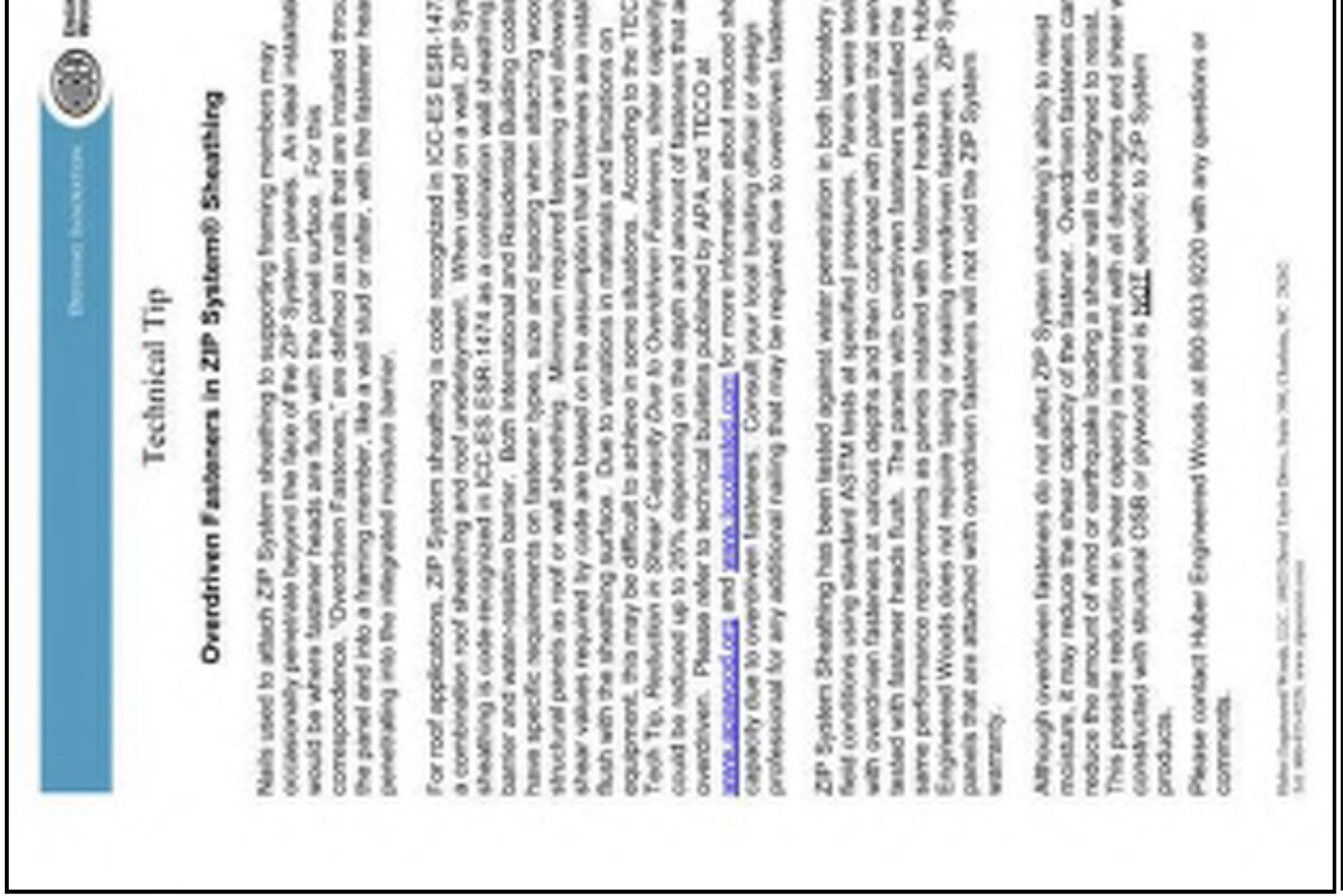
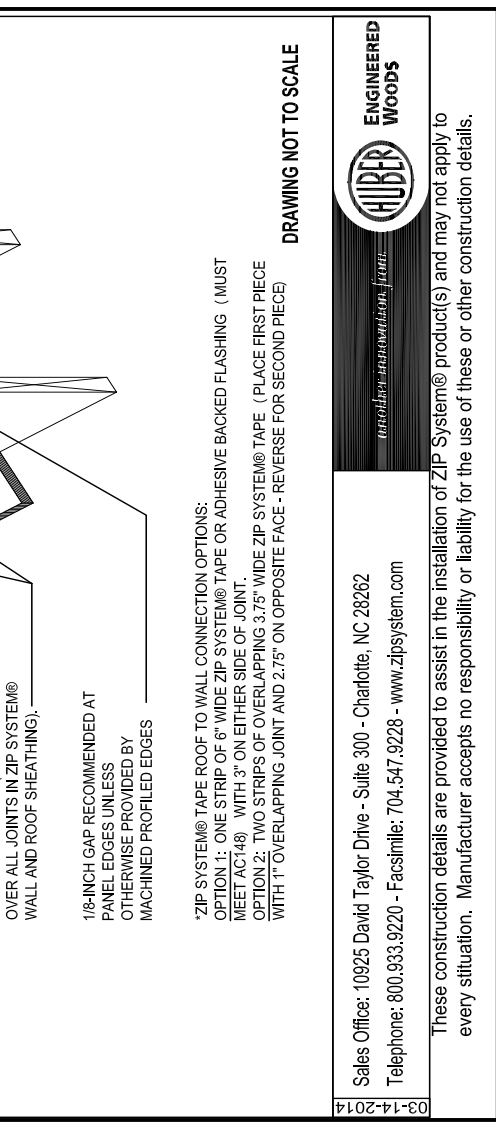
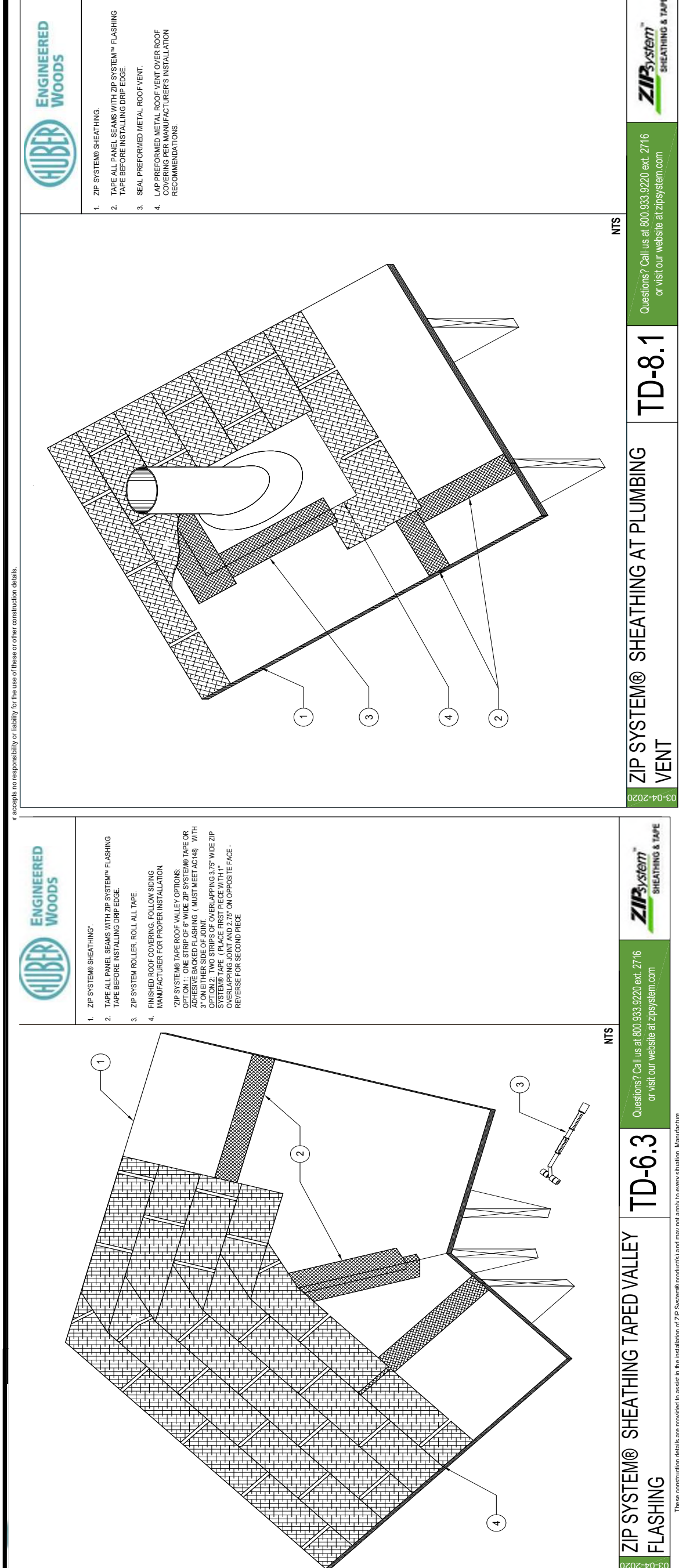
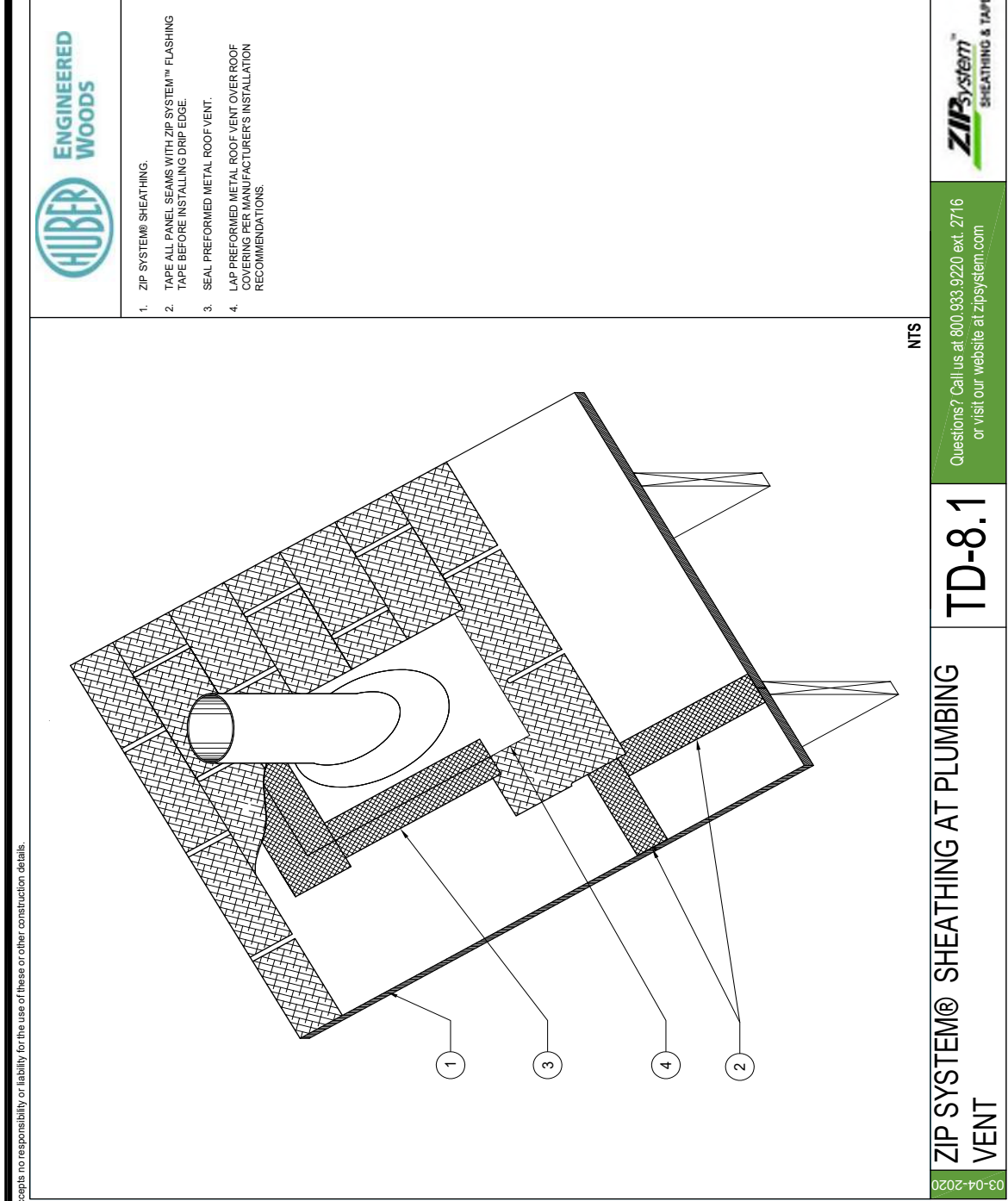
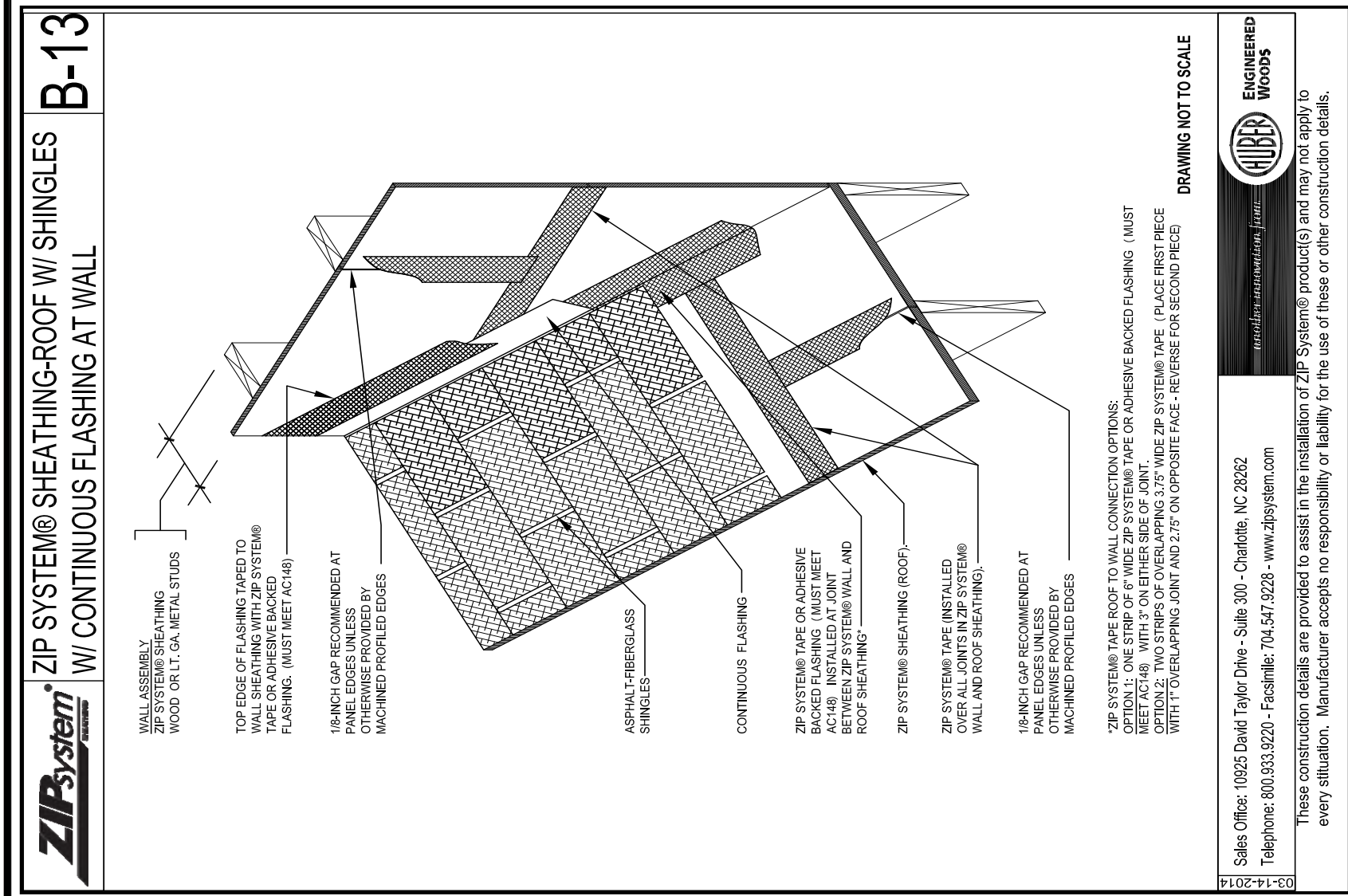
Reference No. 24-04830

Sheet

WP

WATERPROOFING

ESSENTIALS SERIES



FLORIDA PRODUCT APPROVAL #FL17676.1 36X84 FINLESS FRAME

NOTES:
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
6. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. SHIM AS REQUIRED AT WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9. SHIMS SHALL BE MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS, LOCATED AND APPLIED IN A THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR (cd)=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300-04/09.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #6 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
B. METAL STRUCTURE, STEEL 180A, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM
18. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEET 2.

REVISIONS
REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" NOTES
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 1 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

TABLE OF CONTENTS
SHEET NO. DESCRIPTION
1 NOTES
2 ELEVATION
3 - 6 INSTALLATION DETAILS
7 COMPONENTS

APPROVED SEALANT BEHIND FIN
#6 SELF DRILLING SCREW
3/8" MIN. EDGE DISTANCE
1/4" MAX. SHIM SPACE
METAL STRUCTURE BY OTHERS
INTERIOR
EXTERIOR
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS
REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" INSTALLATION DETAILS WITH "J" CHANNEL
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 4 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

3 1/4"
3 1/16"
7/8"
MAIN FRAME WITH "J" CHANNEL
PVC (19438)
3 1/4"
3 1/16"
7/8"
MAIN FRAME
PVC (19434)
3/8"
15/16"
7/8"
GLAZING BEAD
PVC (19416)
5/8"
7/8"
LIFT BEAD
PVC (19417)
3/8"
GLAZING BEAD
PVC (19418)
2 7/8"
9/16"
1 5/16"
SNAP IN SILL
PVC (19481)
1 3/4"
2 1/16"
1 1/16"
FIXED MEETING RAIL
PVC (19421)
1 1/4"
1 7/16"
13/16"
SASH RAIL
PVC (19451)
7/8"
7/16"
MEETING RAIL LINER
STEEL .002" THICK (R19458)
3/4"
5/8"
SASH LINER
STEEL .002" THICK (R19451)

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REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" COMPONENTS
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 7 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

36" FRAME WIDTH
4" MAX.
4" MAX.
12" MAX. O.C.
74" FRAME HEIGHT
SERIES 3540 PVC SINGLE HUNG WINDOW
EXTERIOR VIEW
NOTES:
1. SASH SIZE: 33 7/8" X 34 3/16"
2. FIXED SASH D.L.O.: 31 7/8" X 33"
3. OPERABLE SASH D.L.O.: 30 7/8" X 33 5/16"
DESIGN PRESSURE RATING: ±50.0PSF
IMPACT RATING: NONE
FOR AREAS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED
DESIGN PRESSURE RATING: +35.0/-50.0PSF
IMPACT RATING: NONE
FOR AREAS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED
36" X 74" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS FRAME AREA DOES NOT EXCEED 16.9 FT²

REVISIONS
REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" ELEVATION
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 2 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

HARDWARE SCHEDULE
A. 12 PER SASH METAL COMB LOCK WITH KEYS AT INTERIOR MEETING RAIL, 1" FROM EACH END
B. 12 PER SASH PVC SURFACE MOUNT TILT LATCH AT INTERIOR MEETING RAIL ENDS
C. 12 PER SASH LOCK WASHERS ONE IN EACH CORNER
D. 12 PER SASH METAL PHOTO BUMPS AT BOTTOM RAIL ENDS
E. STEEL REINFORCEMENT (R19445-020) AT SASH PANELS AND STILES
F. STEEL REINFORCEMENT (R19445-020) AT FIXED MEETING RAIL

APPROVED SEALANT BEHIND FIN
#6 WOOD SCREW
3/8" MIN. EDGE DISTANCE
1/4" MAX. SHIM SPACE
WOOD FRAMING OR 2X BUCK BY OTHERS
INTERIOR
EXTERIOR
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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REVISIONS
REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

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GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" INSTALLATION DETAILS STANDARD FRAME
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 5 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SEALANT BEHIND FIN
#6 WOOD SCREW
3/8" MIN. EDGE DISTANCE
1/4" MAX. SHIM SPACE
WOOD FRAMING OR 2X BUCK BY OTHERS
INTERIOR
EXTERIOR
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS
REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" INSTALLATION DETAILS WITH "J" CHANNEL
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 3 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

APPROVED SEALANT BEHIND FIN
#6 SELF DRILLING SCREW
3/8" MIN. EDGE DISTANCE
1/4" MAX. SHIM SPACE
METAL STRUCTURE BY OTHERS
INTERIOR
EXTERIOR
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS
REV DESCRIPTION DATE APPROVED
A REVISED NOTES 08/06/19 R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370
SERIES 3540 PVC SINGLE HUNG WINDOW
REINFORCED NON-IMPACT 36" x74" INSTALLATION DETAILS STANDARD FRAME
DRAWN: A.R. DWG NO: 08-03347 REV: A
SCALE: NTS DATE: 11/06/18 SHEET 6 OF 7
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LENOIRVILLE, NC 27033
434-688-0039 rlomas@marondahomes.com

SIGNED: 08/06/2019
Luis R. Lomas P.E.
FL No.: 62514

Product Approval
FL # 17676

PRODUCT	REL. DATE
11-24	REVISED TO 8TH EDITION CODE 2023
REVISIONS :	



4005 MARONDA WAY
SANFORD, FL 32771
(407) 321-0064

FLORIDA
THIS STRUCTURE WAS DESIGNED
IN ACCORDANCE AND MEETS THE
REQUIREMENTS OF SECTION
903.0 OF THE FLORIDA BUILDING
CODE 8th EDITION (2023) :
RESIDENTIAL ALL CONNECTORS
HAVE BEEN CHECKED TO
WITHSTAND ALL APPLICABLE
LOADS AND DESIGN CRITERIA
STATED ON THE COVER SHEET.

DESIGNED WIND SPEED
160 MPH
V_{ult} = 160 MPH
V_{des} = 124 MPH

Manufacture
MI Windows

DRAWN BY: GARAGE:
RELEASE DATE: JULY 6, 2015

SHEET:

WIN-V1

FLORIDA PRODUCT APPROVAL FL #15332

REV	DESCRIPTION	DATE	APPROVED
A	ADDED FLANGE INSTALLATIONS	12/10/13	R.L.
B	REVISED INSTALLATION DETAILS	08/03/15	R.L.
C	REVISED INSTALLATION DETAILS	06/21/17	R.L.

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED, DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR C_d=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T5.
- UNITS MUST BE GLAZED PER ASTM E1300-04/09, WITH SAFETY GLASS.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- DOOR ASSEMBLIES INSTALLED WHERE OVERHANG RATIO IS EQUAL OR GREATER THAN 1.0 DO NOT REQUIRE WATER INFILTRATION RESISTANCE.
- OVERHANG RATIO = OVERHANG LENGTH/OVERHANG HEIGHT.
- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO MASONRY/CONCRETE USE 1/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW.
A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI
C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM

SIGNED: 06/21/2017

MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 430/440 XIX SGO
143" x 96" REINFORCED WITHOUT ADAPTER
FRAME INSTALLATION DETAILS

SCALE: NTS DATE 10/30/13 SHEET 1 OF 9

L. ROBERTO LOMAS P.E.
1402 WOODFORD RD LENOIRVILLE, NC 27023
434-688-0009 lromas@miwindows.com

Luis R. Lomas P.E.
FL No.: 62514

SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3 - 9	INSTALLATION DETAILS

REV	DESCRIPTION	DATE	APPROVED
A	ADDED FLANGE INSTALLATIONS	12/10/13	R.L.
B	REVISED INSTALLATION DETAILS	08/03/15	R.L.
C	REVISED INSTALLATION DETAILS	06/21/17	R.L.

NOTES:

- INTERIOR AND EXTERIOR FINISHES, BY OTHERS. NOT SHOWN FOR CLARITY.
- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 06/21/2017

MI WINDOWS AND DOORS LLC
650 WEST MARKET STREET
GRATZ, PA 17030

SERIES 430/440 XIX SGO
143" x 96" REINFORCED WITHOUT ADAPTER
FRAME INSTALLATION DETAILS

SCALE: NTS DATE 10/30/13 SHEET 5 OF 9

L. ROBERTO LOMAS P.E.
1402 WOODFORD RD LENOIRVILLE, NC 27023
434-688-0009 lromas@miwindows.com

Luis R. Lomas P.E.
FL No.: 62514

VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

FLORIDA PRODUCT APPROVAL FL # 17894.3

ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SILL DETAIL

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

JAMB DETAIL

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SIZE AND DESIGN PRESSURE CHART
FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +50/-50 UNITS UP TO 52" X 84" (SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

NOTES:

- Installation depicted based off of structural test report B9171.01.
- Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
- Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
- Wood screw lengths shall be sufficient to guarantee 1-1/4" penetration into wood buck.
- Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be load bearing, non-compressible type.
- These drawings depict the details necessary to meet structural load requirements. They do not address the air infiltration, water penetration, intrusion or thermal performance requirements of the installation.
- Installation shown is that of the test window for the size shown and the design pressure claimed. For window sizes smaller than shown, locate jamb fasteners 2" from corners and no more than 10" on center. Locate head/sill fasteners 2" from corners and no more than 10" on center. Design pressures of smaller window sizes are limited to that of the test window.

FLORIDA PRODUCT APPROVAL FL #17894.4

ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SILL DETAIL

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

JAMB DETAIL

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SIZE AND DESIGN PRESSURE CHART
FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +50/-50 UNITS UP TO 52" X 84" (SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

NOTES:

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- Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
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ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SILL DETAIL

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

JAMB DETAIL

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SIZE AND DESIGN PRESSURE CHART
FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +50/-50 UNITS UP TO 52" X 84" (SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

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ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SILL DETAIL

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

JAMB DETAIL

7/16" Min Edge Distance

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MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

NOTES:

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ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SILL DETAIL

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JAMB DETAIL

7/16" Min Edge Distance

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SIZE AND DESIGN PRESSURE CHART
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MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

NOTES:

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ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

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SILL DETAIL

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

JAMB DETAIL

7/16" Min Edge Distance

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FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +50/-50 UNITS UP TO 52" X 84" (SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

NOTES:

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ELEVATION

HEAD DETAIL

FLASHING BY OTHERS

CAULK UNDER NAILING FIN TO PREVENT WATER PENETRATION BEFORE FASTENING.

SIZE HEADER AS NEEDED

MINIMUM PENETRATION INTO STUD

SHIM AS REQUIRED

7/16" Min Edge Distance

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

SILL DETAIL

2" X 1-5/8" SCREW (SHOWN WITH 3" SHEATHING) MUST ACHIEVE 1-1/4" PENETRATION INTO STUD.

JAMB DETAIL

7/16" Min Edge Distance

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FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +50/-50 UNITS UP TO 52" X 84" (SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

MI WINDOWS & DOORS
3500HP Single Hung

INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE - FIN -

SCALE: NONE 1" = 1'

ED12-1000SA

NOTES:

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- Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
- Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
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Product Approval

FL #15332
FL #17894

PRODUCT REL. DATE
1-1-24 revised 2023 Code

REVISIONS:

Maronda Homes

4005 MARONDA WAY
SUNBELT, FL 32771
(407) 321-0064

FLORIDA:
THIS STRUCTURE WAS DESIGNED
IN ACCORDANCE AND MEETS THE
REQUIREMENTS OF SECTION
R301 OF THE FLORIDA BUILDING
CODE - 8th EDITION (2023) -
RESIDENTIAL ALL CONNECTORS
HAVE BEEN CHECKED TO
WITHSTAND ALL APPLICABLE
LOADS AND DESIGN CRITERIA
STATED ON THE COVER SHEET.

DESIGNED WIND SPEED:

Vult - 160 MPH

Vosd - 124 MPH

Manufacture

MI WINDOWS SLIDING GLASS
DOORS

MI WINDOWS

DRAWN BY:

GABRIEL

RELEASE DATE:

JULY 6, 2015

SHEET:

WIN-V2

MI WINDOWS 3500 SERIES PW

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.

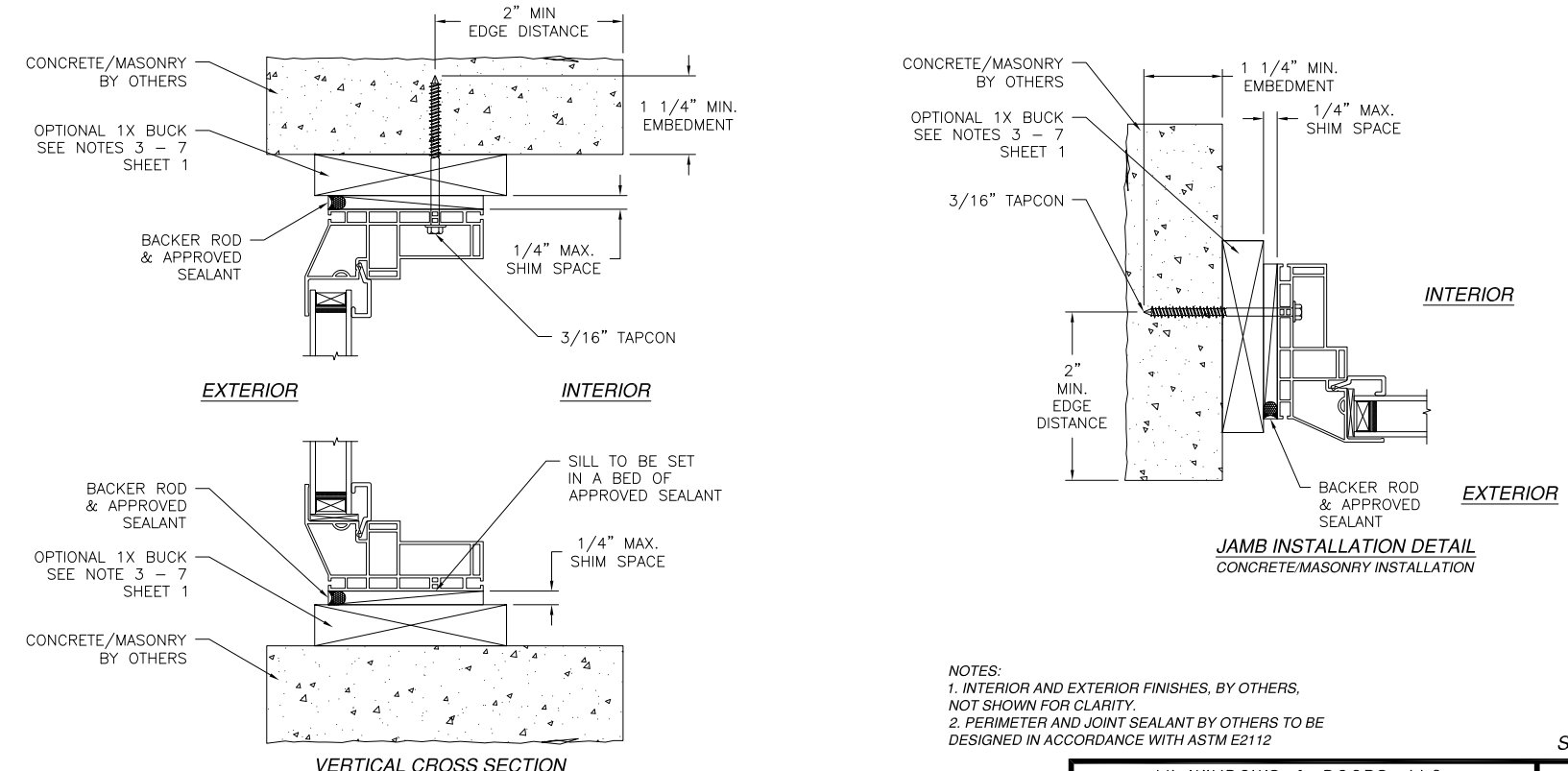
NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND MANUFACTURED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE, FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
- WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
- WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
- FOR FIN INSTALLATION SHIM AS NEEDED, FOR FRAME INSTALLATION SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
- WIND LOAD DURATION FACTOR CAN BE USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME MATERIAL: EXTRUDED RIGID PVC.
- UNITS MUST BE GLAZED PER ASTM E1300-04/09.
- APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING FIN INTO STEEL STUDS USE #8 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.40-0.42
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE- STEEL, 16GA (.060" THICK), 33KSI OR ALUMINUM 6063-T5 .060" THICK MINIMUM
- GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEET 2. GEOMETRIC SHAPES ARE NOT LIMITED TO SHAPES SHOWN HEREIN.
- THIS PRODUCT IS ALSO LABELED UNDER THE FOLLOWING NAMES: 3500PW, 3500PWCHS, 3500PWMLL, 3500SP, S-3500PW, S-3500PWCHS, S-3500PWMLL, S-3500SP, S-3500PWCHS, S-3500SP, S-3500PWCHS, 1255PW, 1255PWCHS, 1255PWMLL, 1280PW, 910SP, 3500PPW, 3500PPWMLL AND 3500HSP.

SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT NOTES		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 1 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.



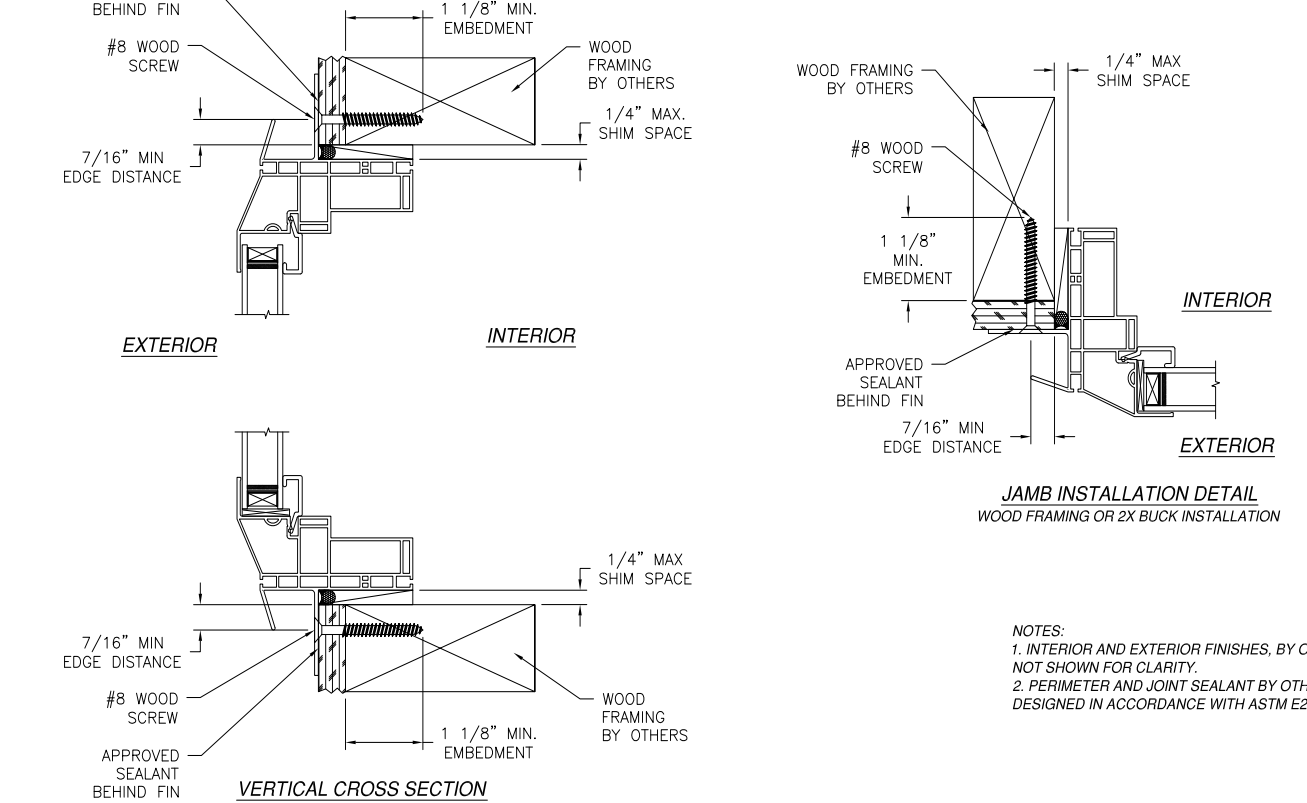
NOTES:

- INTERIOR AND EXTERIOR FINISHES, BY OTHERS. NOT SHOWN FOR CLARITY.
- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT INSTALLATION DETAILS		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 5 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

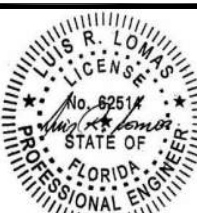
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.

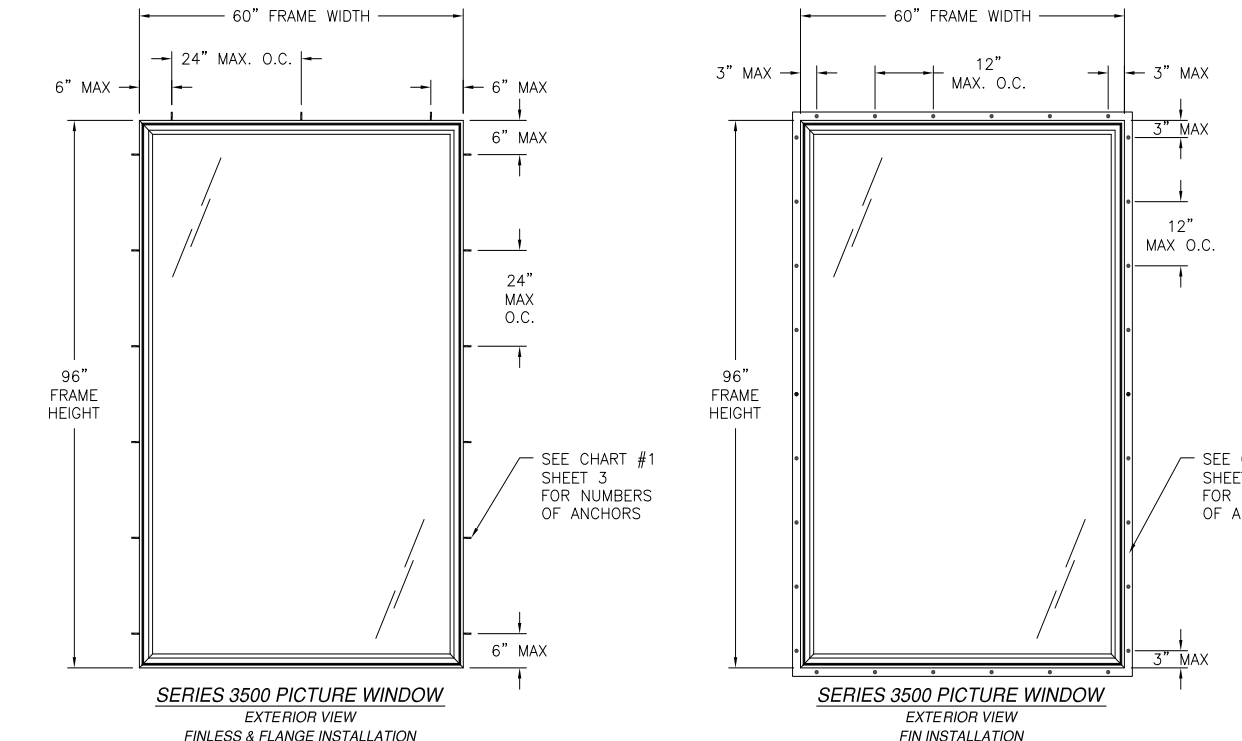


NOTES:

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- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT FIN INSTALLATION DETAILS W/J-CHANNEL		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 10 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514



SEE CHART #1 SHEET 3 FOR NUMBERS OF ANCHORS

SEE CHART #2 SHEET 3 FOR NUMBERS OF ANCHORS

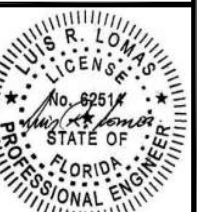
DESIGN PRESSURE RATING	IMPACT RATING
±50 ODPF	NONE

60" X 96" FRAME SIZE SHOWN. OTHER SIZES ARE APPROVED AS LONG AS INDIVIDUAL FRAME AREA DOES NOT EXCEED 40.0 FT²

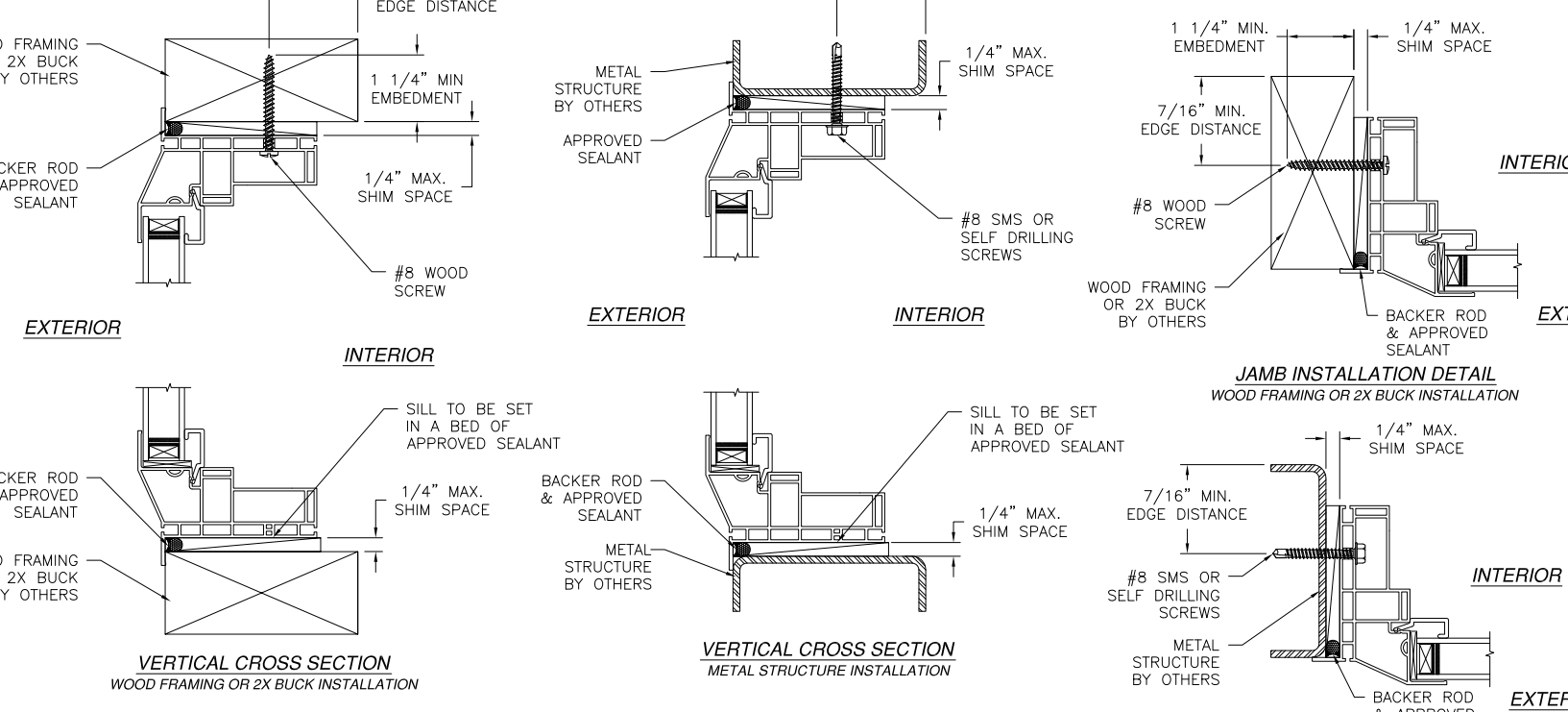
NOTES:

- MAXIMUM D.L.O.: 56" X 92"
- (2) 1/4" X 1/2" WEEPSLOT AT 2 1/2" FROM END GLAZING CHANNEL.
- (2) 1" X 1/8" WEEPSLOT AT 2 1/2" FROM EDGE OF SILL FACE.

SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT ELEVATIONS		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 2 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

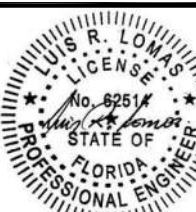
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.



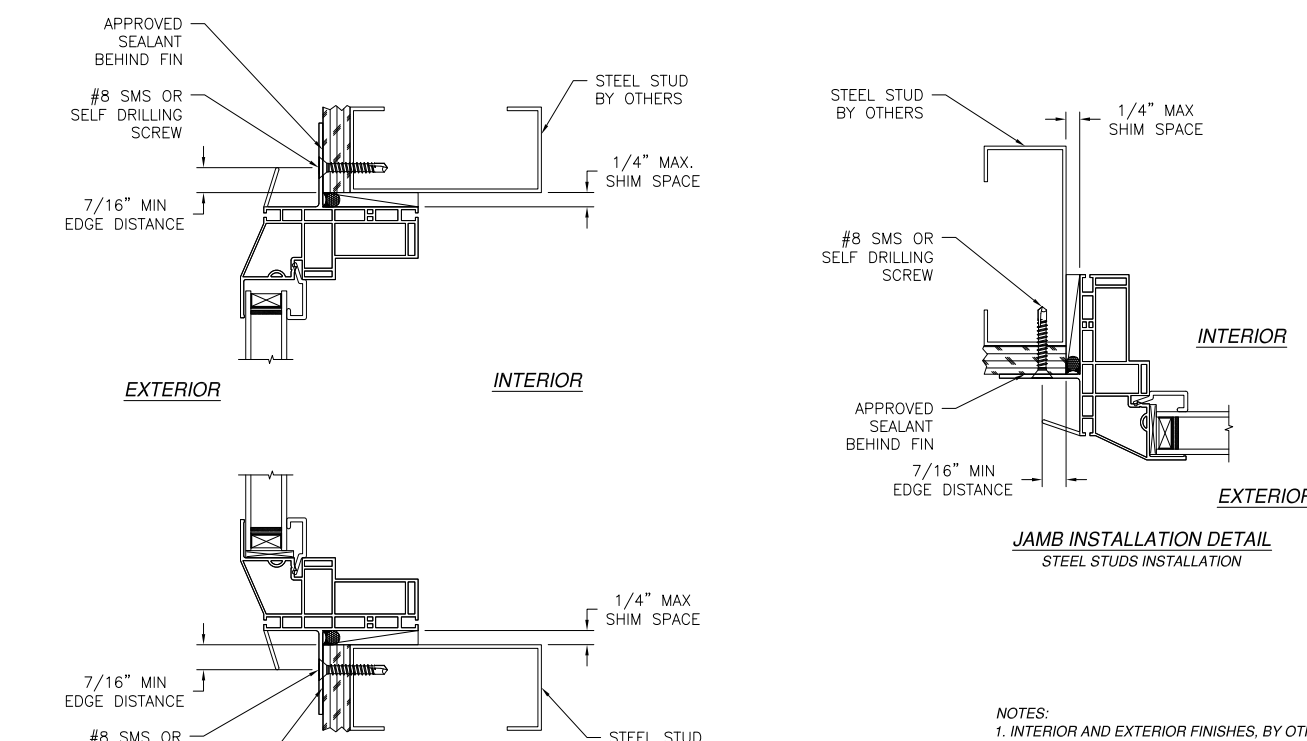
NOTES:

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SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT INSTALLATION DETAILS W/FLANGE		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 6 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.



NOTES:

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SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT FIN INSTALLATION DETAILS W/J-CHANNEL		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 11 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

Chart #2
Number of anchor locations required

Frame Height (in)	Frame width (in)															
	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	
24.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
30.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
36.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
42.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
48.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
54.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
60.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
66.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
72.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
78.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
84.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
90.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
96.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
102.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
108.00	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

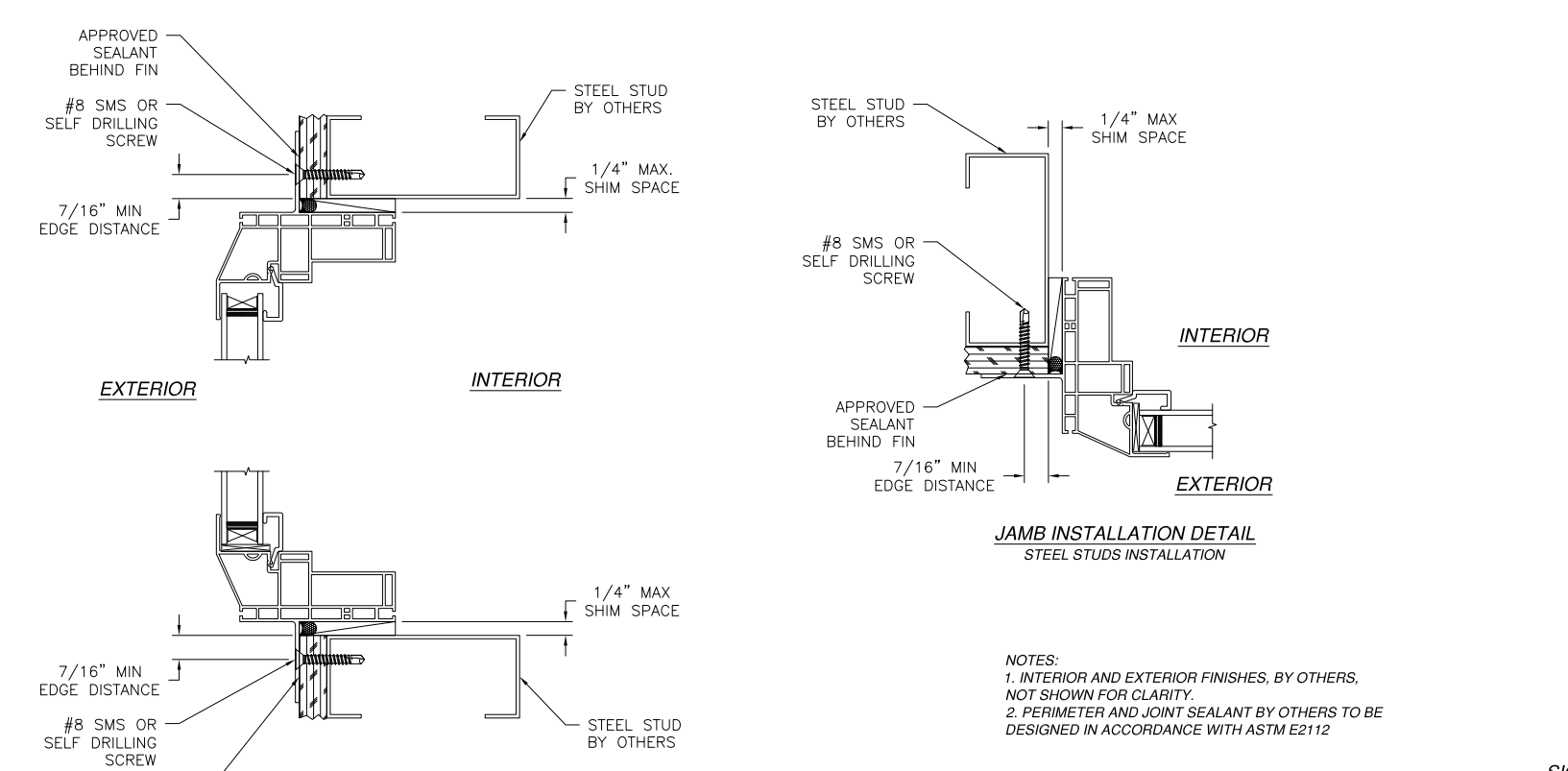
Chart #2
Number of anchor locations required

Frame Height (in)	Frame width (in)															
	24.00	30.00	36.00	42.00	48.00	54.00	60.00	66.00	72.00	78.00	84.00	90.00	96.00	102.00	108.00	
24.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
30.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
36.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
42.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
48.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
54.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
60.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
66.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
72.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
78.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
84.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
90.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
96.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
102.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
108.00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT NUMBER OF ANCHORS CHARTS		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 3 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

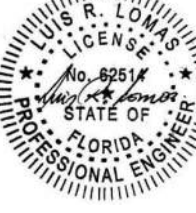
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.



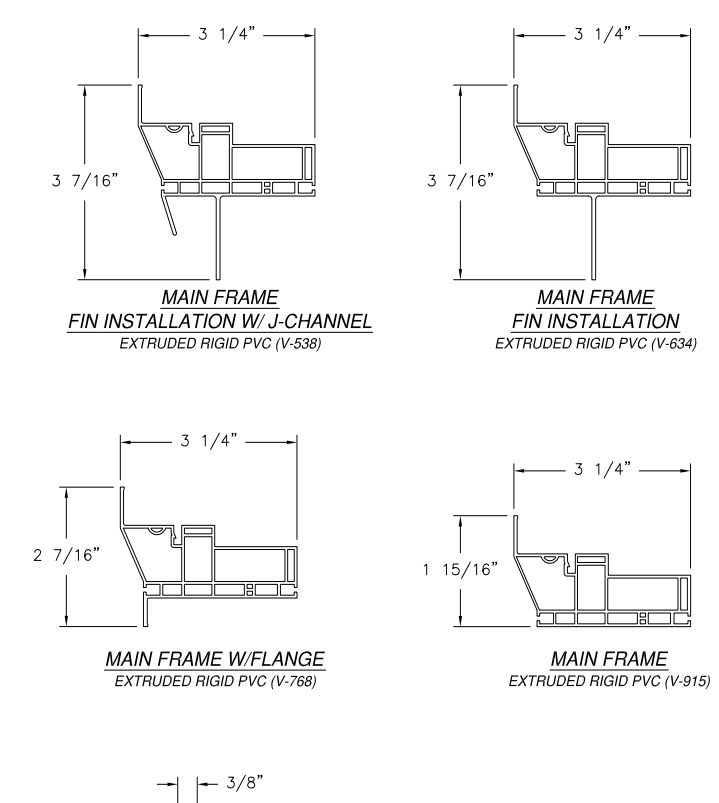
NOTES:

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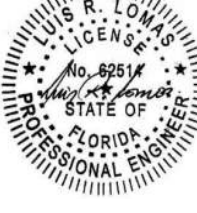
SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT FIN INSTALLATION DETAILS		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 9 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED FIN INSTALLATION	10/22/19	R.L.



SIGNED: 02/28/2020

MI WINDOWS & DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030-0370			
SERIES 3500 PICTURE WINDOW 60" X 96" NON-IMPACT COMPONENTS		DRAWN: N.G. DATE: 02/02/16 SCALE: NTS	DWG NO.: 08-02858 SHEET: 12 OF 12 LUIS R. LOMAS P.E. FL NO.: 82514

Product Approval
FL 18644.3

Revised to 20230 8th Edition Code

Maronda Homes

4000 MARONDA WAY
SANFORD, FL 32771
(407) 321-0064

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 8th EDITION (2023). RESIDENTIAL ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS AND DESIGN CRITERIA STATED ON THE COVER SHEET.

DESIGNED WIND SPEED
V_W = 160 MPH
V_{soil} = 124 MPH

Manufacture
MI Windows

SHEET:

WIN - 3

FL_GSE