

LENNAR
LENNAR TAMPA DIVISION
500 WEST CYPRESS ST. SUITE 200
TAMPA, FL 33607
813-574-5667

2925 FLYING BLACKBIRD ROAD
2606-(140 MPH)
3 CAR GARAGE (ELEVATION B)
(EXP. "C")

IT OF THE ENGINEER'S
GE AND BELIEF, THE STRUCTURAL
SPECIFICATIONS COMPLY WITH
IN (2020) FLORIDA RESIDENTIAL
CODE, SECTION R301 FOR
 $V_{sd}=108\text{MPH}$, 3 SEC. GUST,
"C" ENCLOSED (INTERNAL
COEFFICIENT = ± 0.18) WIND ZONE
G AND DESIGN IS VALID FOR 12 MONTHS
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DESCRIPTION	
1.01	UPDATED PER MASTER PLAN COUNTY COMMENTS
1.02	REVISED ROOF COVERING NOTES
1.03	SALES OFFICE 7TH EDITION 2020 CODE UPDATE
1.04	UPDATE PLANS PER 2021 SIMPSON CONN. CATALOG
1.05	REVISED ELECTRICAL PLAN

ed by **Przemysław Ciolko**, **PE** on
11/2022 using a Digital Signature.

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SHEET TITLE:
FOUNDATION PLAN

INFORMATION:
D.: 420180
SUED: 04.29.22
N BY: JH
/ED BY: KB

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT							
LENGTH	TYPE	8U8	8F8-OB	8F12-OB	8F16-OB	8F20-OB	8F24-OB	8F28-OB	8F32-OB
3'-6" (42") PRECAST	2231	3069	3719	5163	6607	8054	9502	10951	
4'-0" (48") PRECAST	1966	2561	2751	3820	4890	5961	7034	8107	
4'-6" (54") PRECAST	1599	2693	4605	6113	7547	8974	10394	11809	
5'-4" (64") PRECAST	1217	2189	4375	6113	7547 (1)	8672	10294	11809	
5'-10" (70") PRECAST	1062	1349	1438	2560	3123	3666	4249		
6'-6" (78") PRECAST	908	1163	309	5365	7547 (1)	7342 (1)	8733 (1)	10127 (1)	
7'-6" (90") PRECAST	743	1011	1729	2632	2205	2694	3191	3685	
9'-4" (112") PRECAST	554	699	1160	2564	3486	3898	5681	8467 (1)	6472 (1)
10'-6" (126") PRECAST	475	752	1245	1843	2564	3486	4705 (1)	6390 (1)	
11'-4" (136") PRECAST	362	643	1052	1533	2093	2781	3643 (1)	4754 (1)	
12'-0" (144") PRECAST	337	582	945	1366	1846	2423	3127	4006	
13'-4" (160") PRECAST	296	582	945	1366	1846	2423	3127	4006	
14'-0" (168") PRECAST	279	540	873	1254	1684	2193	2805	3552	
14'-8" (176") PRESTRESSED	N.R.	458	783	1370	1902	2245	2517	2712	
15'-4" (184") PRESTRESSED	N.R.	412	710	1250	1733	2058	2320	2513	
17'-4" (208") PRESTRESSED	N.R.	300	548	950	1326	1609	1849	2047	
19'-4" (232") PRESTRESSED	N.R.	235	420	750	1037	1282	1515	1716	
21'-4" (256") PRESTRESSED	N.R.	180	340	598	845	1114	1359	1468	
22'-0" (264") PRESTRESSED	N.R.	165	315	550	784	1047	1285	1399	
24'-0" (288") PRESTRESSED	N.R.	129	250	450	654	884	1092	1222	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR.

SAFE GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT							
LENGTH	TYPE	8RU6	8RF6-OB	8RF10-OB	8RF14-OB	8RF18-OB	8RF22-OB	8RF26-OB	8RF30-OB
4'-4" (52") PRECAST	1635	1749	3355	3280	4349	5421	6493	7567	
4'-6" (54") PRECAST	1494	1891	3699	5206	6639	8060	9479	10893	
5'-8" (68") PRECAST	866	1756	3699	5206	6639	8060	9479	10893	
5'-10" (70") PRECAST	810	920	1770	1716	2277	2839	3402	3966	
6'-8" (80") PRECAST	797	859	1653	1600	2124	2649	3174	3700	
7'-6" (90") PRECAST	669	901	1825	3120	5048	7747	9448	7360	
9'-8" (116") PRECAST	411	755	1490	2459	3776	5743	7239	5623	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR.

SAFE LATERAL LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE		SAFE LOAD PLF							
LENGTH	TYPE	8U8	8F8	RCMU	8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T
3'-6" (42") PRECAST	2231	3069	3719	5163	6607	8054	9502	10951	
4'-0" (48") PRECAST	1966	2561	2751	3820	4890	5961	7034	8107	
4'-6" (54") PRECAST	1599	2693	4605	6113	7547	8974	10394	11809	
5'-4" (64") PRECAST	1217	2189	4375	6113	7547 (1)	8672	10294	11809	
5'-10" (70") PRECAST	1062	1105	1773	2093	2549	3009	3470		
6'-6" (78") PRECAST	908	1238	2177	3480	3031	3707	4383	5061	
7'-6" (90") PRECAST	743	1011	1729	2632	2205	2694	3191	3685	
9'-4" (112") PRECAST	554	699	1160	2564	3486	4705 (1)	6390 (1)		
10'-6" (126") PRECAST	475	555	894	1247	2093	2777	3163	2536	
11'-4" (136") PRECAST	362	582	945	1366	1846	2423	3127	4006	
12'-0" (144") PRECAST	337	582	945	1366	1846	2423	3127	4006	
13'-4" (160") PRECAST	296	471	755	1075	1428	1838	2316	2883	
14'-0" (168") PRECAST	279	424	706	1002	1326	1697	2127	2630	
14'-8" (176") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
15'-4" (184") PRESTRESSED	N.R.	412	710	1250	1733	2058	2320	2513	
17'-4" (208") PRESTRESSED	N.R.	300	548	950	1326	1609	1849	2047	
19'-4" (232") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR	
21'-4" (256") PRESTRESSED	N.R.	180	340	598	845	1114	1359	1468	
22'-0" (264") PRESTRESSED	N.R.	165	315	550	784	1047	1285	1399	
24'-0" (288") PRESTRESSED	N.R.	129	250	450	654	884	1092	1222	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR.

SAFE LATERAL LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

CAST-CRETE		SAFE LOAD PLF							
LENGTH	TYPE	8RU6	8RF6	RCMU	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T
4'-4" (52") PRECAST	1635	1749	3355	3280	4349	5421	6493	7567	
4'-6" (54") PRECAST	1494	1891	3699	5206	6639	8060	9479	10893	
5'-8" (68") PRECAST	866	1756	3699	5206	6639	8060	9479	10893	
5'-10" (70") PRECAST	810	920	1770	1716	2277	2839	3402	3966	
6'-8" (80") PRECAST	797	901	1825	3120	5048	7747	9448	7360	
7'-6" (90") PRECAST	669	755	1490	2459	3776	5743	7239	5623	
9'-8" (116") PRECAST	411	526	999	1568	2253	3129	4150	5891 (1)	

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR.

SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT							
LENGTH	TYPE	8U8	8F8	RCMU	8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T
3'-6" (42") PRECAST	2231	1025	1024	1598					
4'-0" (48") PRECAST	1966	765	763	1309					
4'-6" (54") PRECAST	1599	592	591	1073					
5'-4" (64") PRECAST	1217	411	411	745					
5'-10" (70") PRECAST	1062	340	339	616					
6'-6" (78") PRECAST	908	507	721	490					
7'-6" (90") PRECAST	743	424	534	363					
9'-4" (112") PRECAST	554	326	512	230					
10'-6" (126") PRECAST	475	284	401	180					
11'-4" (136") PRECAST	362	260	452	154					
12'-0" (144") PRECAST	337	244	402	137					
13'-4" (160") PRECAST	296	217	324	110					
14'-0" (168") PRECAST	279	205	293	100					
14'-8" (176") PRESTRESSED	N.R.	284	284	91					
15'-4" (184") PRESTRESSED	N.R.	259	83						
17'-4" (208") PRESTRESSED	N.R.	194	64						
19'-4" (232") PRESTRESSED	N.R.	148	52						
21'-4" (256") PRESTRESSED	N.R.	125	42						
22'-0" (264") PRESTRESSED	N.R.	116	40						
24'-0" (288") PRESTRESSED	N.R.	91	33						

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GRADE 40 FIELD ADDED REBAR.

SAFE LOAD TABLE NOTES

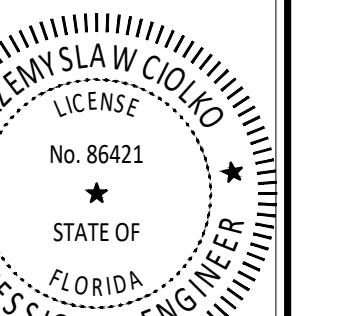
- 1. All values based on minimum 4 inch nominal bearing. Exception Safe loads for unfilled lintels must be reduced by 20% if bearing length is less than 6-1/2 inches.
- 2. NR = Not Rated.
- 3. Safe loads are superimposed allowable load.
- 4. Safe loads based on Grade 40 or Grade 6

15961-52-0043

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THESE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH 7TH EDITION (2020) FLORIDA RESIDENTIAL BUILDING CODE, SECTION R301 FOR HOMES LOCATED IN A 30-MILE DIAMETER, EXPOSURE "C" ENCLOSED INTERNAL PRESSURE COEFFICIENT = 20.18 WIND ZONE. THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE OF ISSUANCE. THIS DRAWING IS SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THE DRAWING ONLY.
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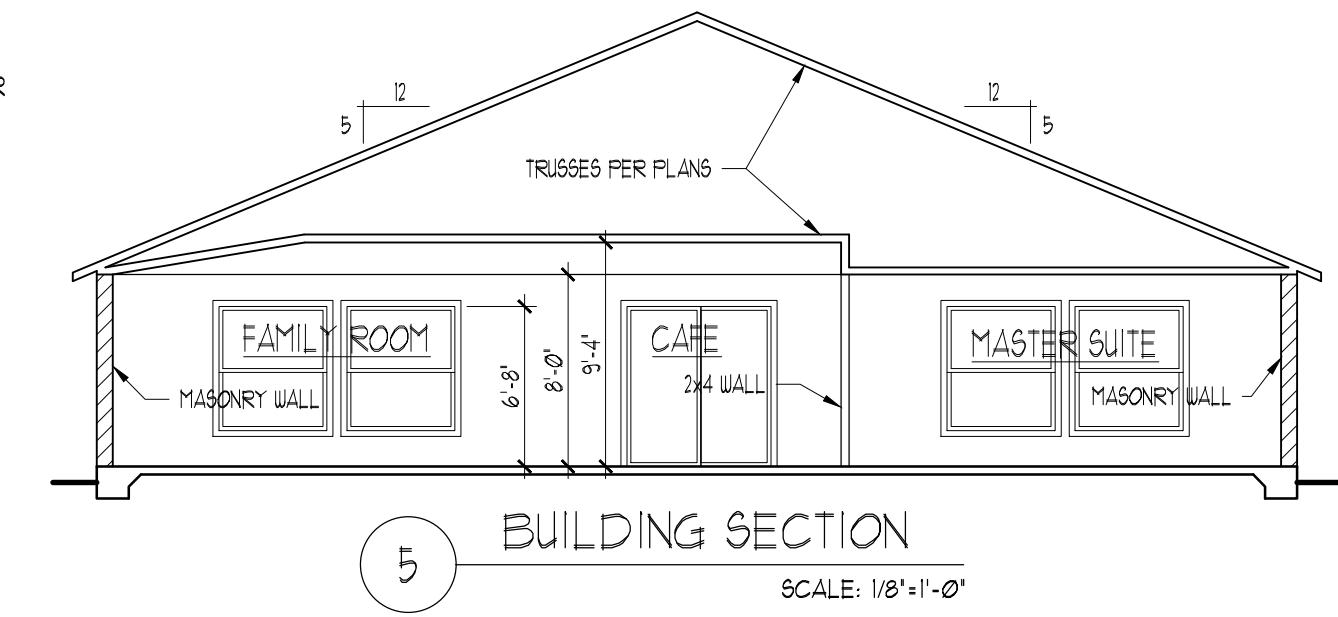
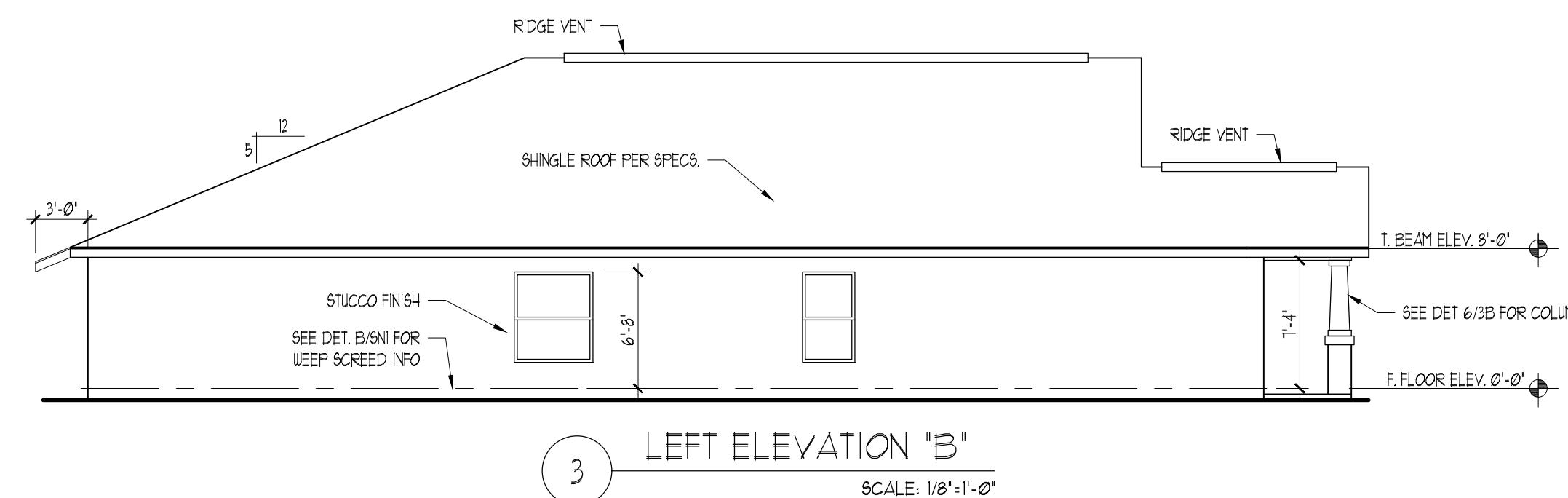
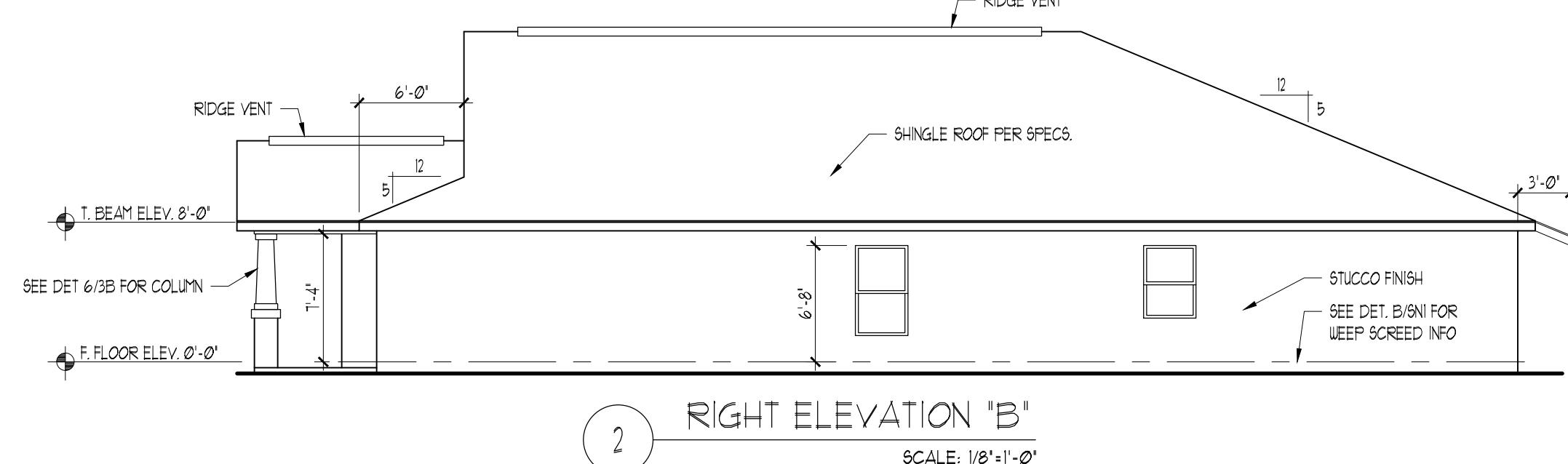
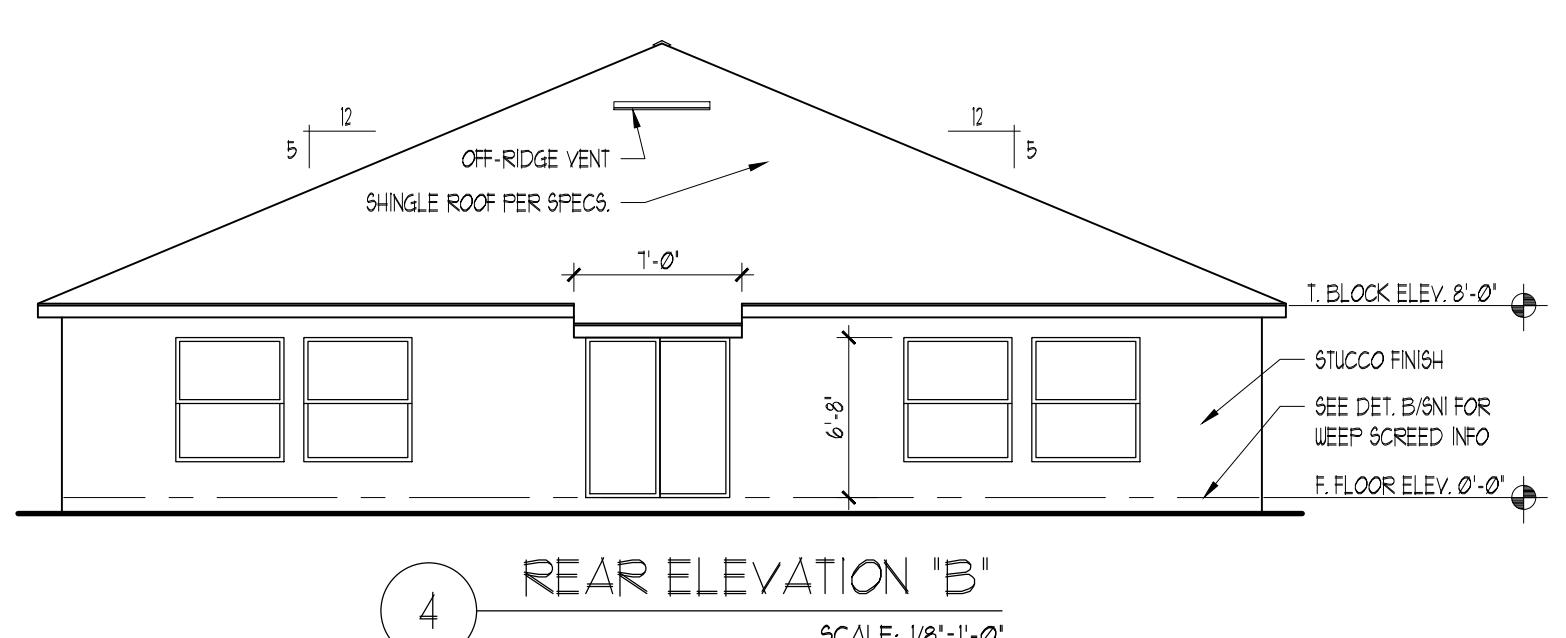
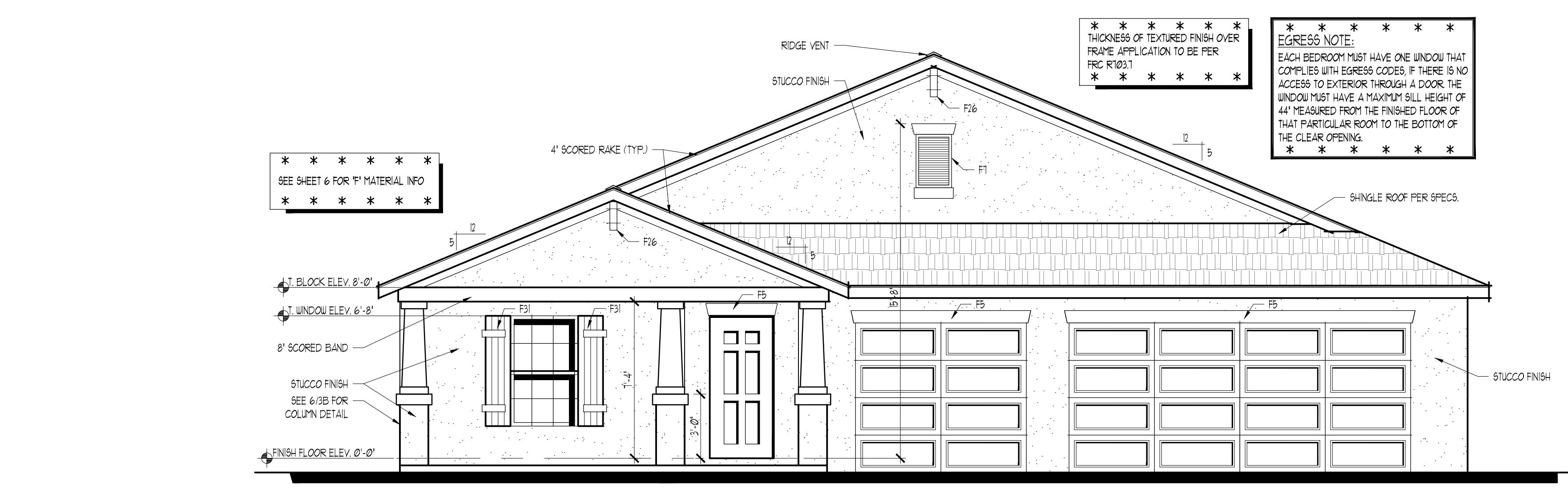
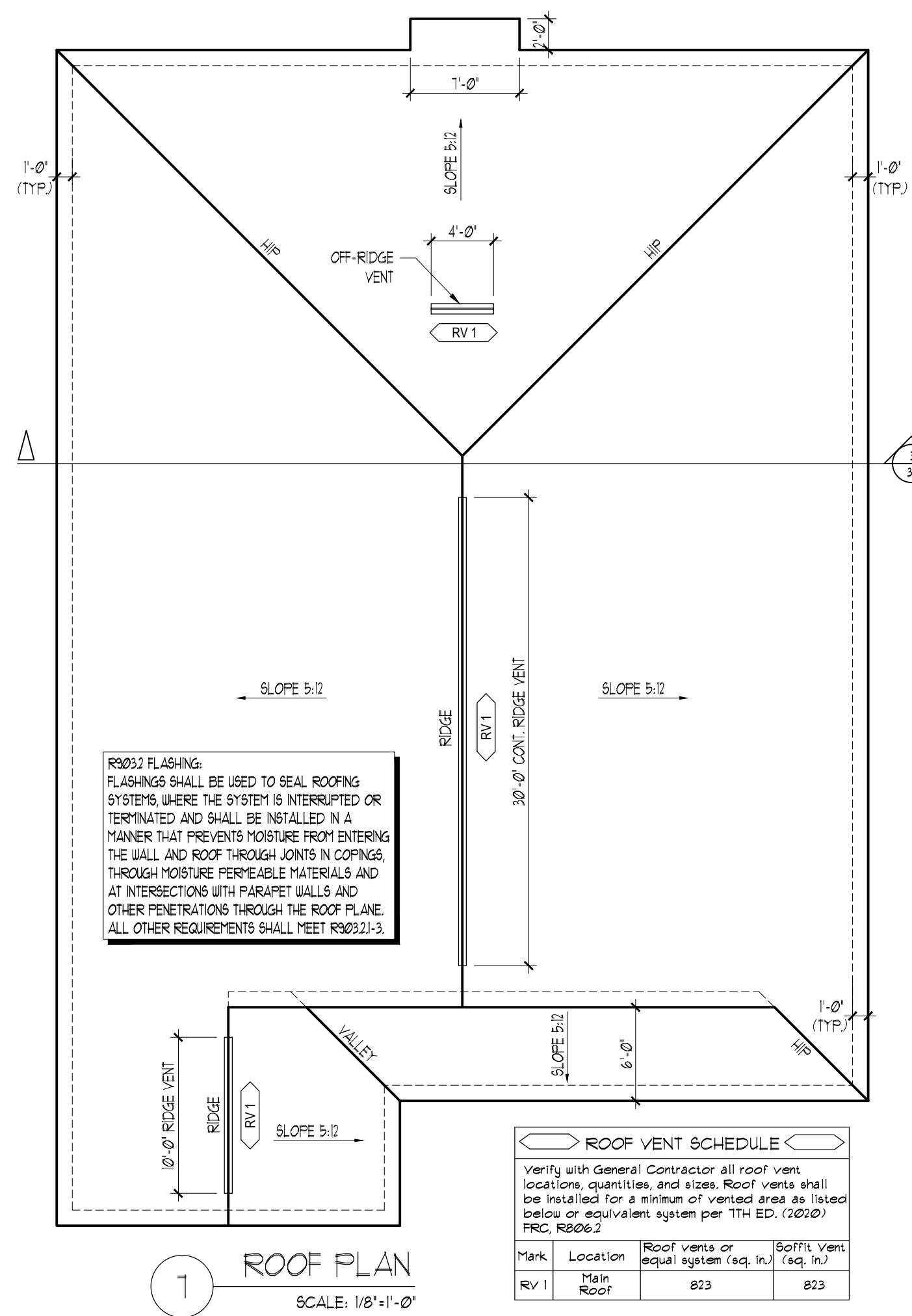
REVISION:
 DATE | DESCRIPTION
 02.05.21 | 1.01 | UPDATED PER MASTER PLAN COUNTY PERMIT
 04.15.21 | 1.02 | REVISED ROOF COVERING
 04.09.21 | 1.03 | FL SALES OFFICE 7TH EDITION UPDATE PLANS (PER A22)
 08.17.21 | 1.04 | SIMPSON CONN. CATALOG
 08.23.21 | 1.05 | UPDATED ELECTRICAL PLAN
 VERSION NO. 1.05 / 08.23.21

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SHEET TITLE:
 ELEVATION "B" EXTERIOR
 ELEVATIONS & ROOF PLAN

SHEET INFORMATION:
 JOB NO.: 420180
 DATE ISSUED: 04.29.22
 DRAWN BY: JH
 REVIEWED BY: KB

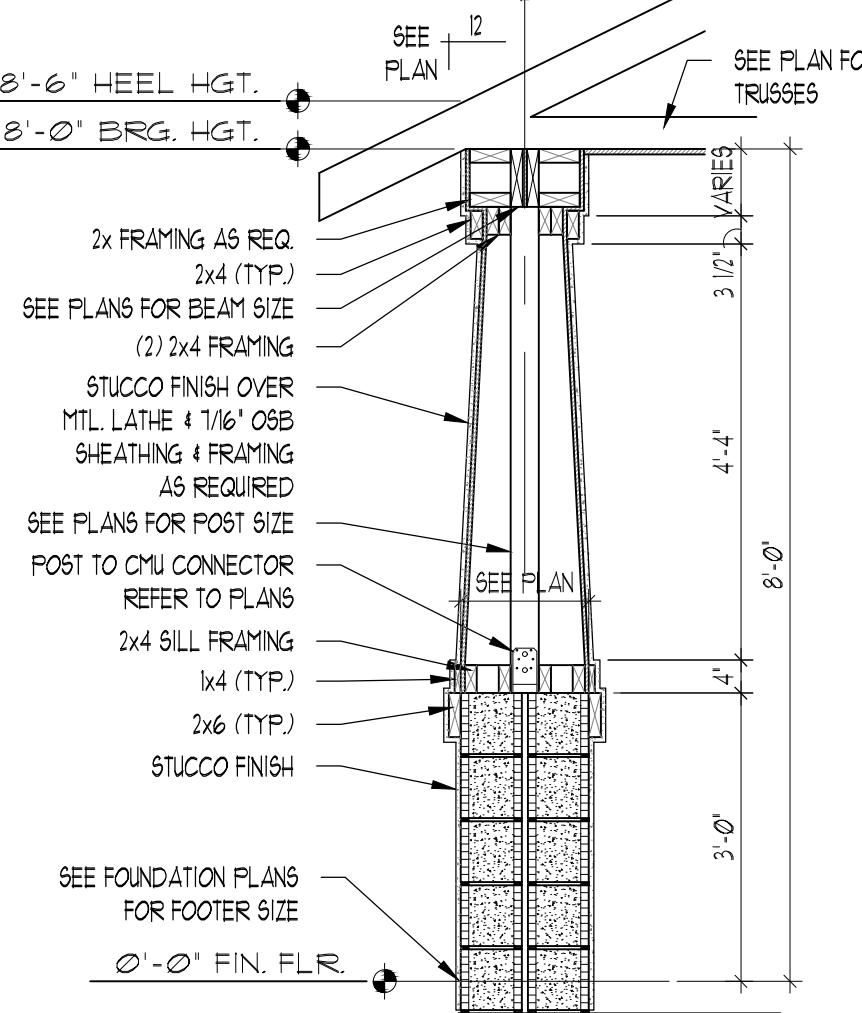


COLUMN DETAIL
 SCALE: 1/2" = 1'-0"

ROOF COVERING GENERAL NOTES

R302.6.1 CLASSIFICATION OF ASPHALT SHINGLES
 ASPHALT SHINGLES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM D3161, TAS 101 OR ASTM D1188 TO RESIST THE BASIC WIND SPEED FOR FIGURE R302(2)(4). SHINGLES CLASSIFIED AS ASTM D3161 (CLASS F), TAS 101 OR ASTM D1188 (CLASS G OR H) ARE ACCEPTABLE FOR USE FOR ULTIMATE WIND SPEEDS OF 140MPH TO 150MPH. ASPHALT SHINGLE WRAPPERS SHALL BE LABELED TO INDICATE COMPLIANCE WITH THE REQUIRED CLASSIFICATION (REF. TABLE R302.6.1).

R302.3 CLAY AND CONCRETE TILE
 THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, OR RECOMMENDATIONS OF FRSA/TFI FLORIDA HIGH WIND CONCRETE AND CLAY ROOF TILE INSTALLATION MANUAL, SIXTH EDITION WHERE THE VASD IS DETERMINED IN ACCORDANCE WITH SECTION R301.13 OR THE RECOMMENDATIONS OF RAS 118, 119 OR 120. ALL OTHER REQUIREMENTS SHALL MEET R303.1.8.



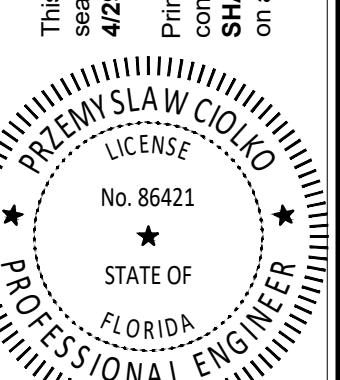
ISSUANCE OF PLANS FROM THIS DESIGNERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
 ANY DISCREPANCY OF ERROR IN NOTES, DIMENSIONS, OR ADHERENCE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNERS OFFICE FOR CORRECTION BEFORE COMMENCEMENT OF ANY CONSTRUCTION.
 ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES.
 IF ANY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DESIGNERS OFFICE, THE DESIGNER SHALL NOT BE HELD RESPONSIBLE.

15961-52-0043

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THIS STRUCTURAL PLAN AND SPECIFICATIONS COMPLY WITH 7TH EDITION (2020) FLORIDA RESIDENTIAL BUILDING CODE, SECTION R301 FOR HABITATIONAL VEHICULAR BLDG. QST, EXPOSURE "C" ENCLOSED (INTERNAL PRESSURE COEFFICIENT = 20.18) WIND ZONE. THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE OF ISSUANCE. THIS DRAWING IS SIGNED AND SEALED FOR THE STRUCTURAL PORTION OF THE DRAWING ONLY.
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REVISION:
 DATE | DESCRIPTION
 02.05.21 | 1.01 | UPDATED PER MASTER PLAN, COUNTY COMMENTS
 04.15.21 | 1.02 | REVISED ROOF COVERING
 06.09.21 | 1.03 | SALES OFFICE 7TH EDITION
 08.17.21 | 1.04 | UPDATE PER 7TH EDITION
 08.23.21 | 1.05 | REVISED ELECTRICAL PLAN
 VERSION NO. 1.05 / 08.23.21

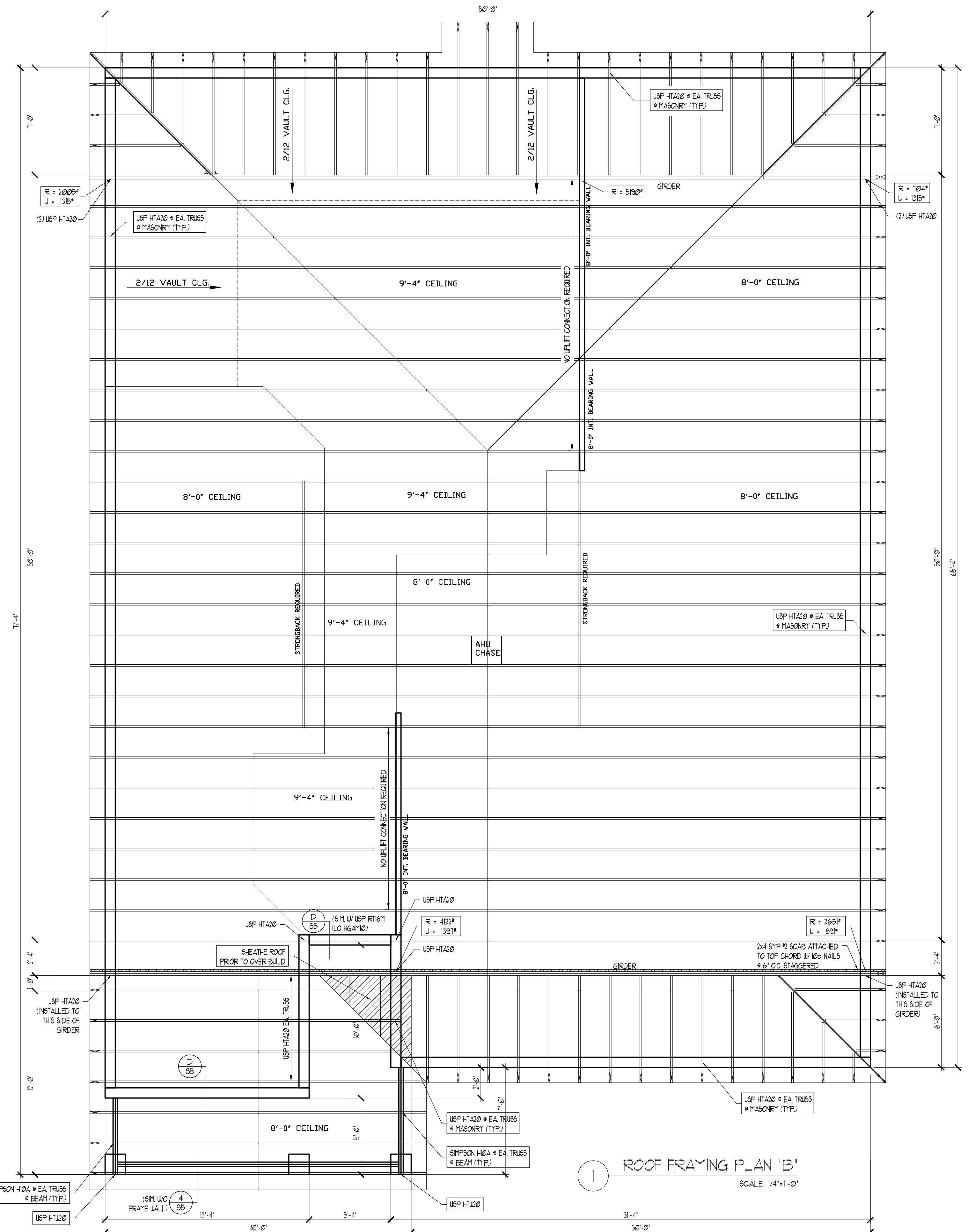
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SHEET TITLE:
 ROOF FRAMING PLAN
 ELEVATION "B"

SHEET INFORMATION:
 JOB NO.: 420180
 DATE ISSUED: 04.29.22
 DRAWN BY: JH
 REVIEWED BY: KB

5B



15961-52-0043

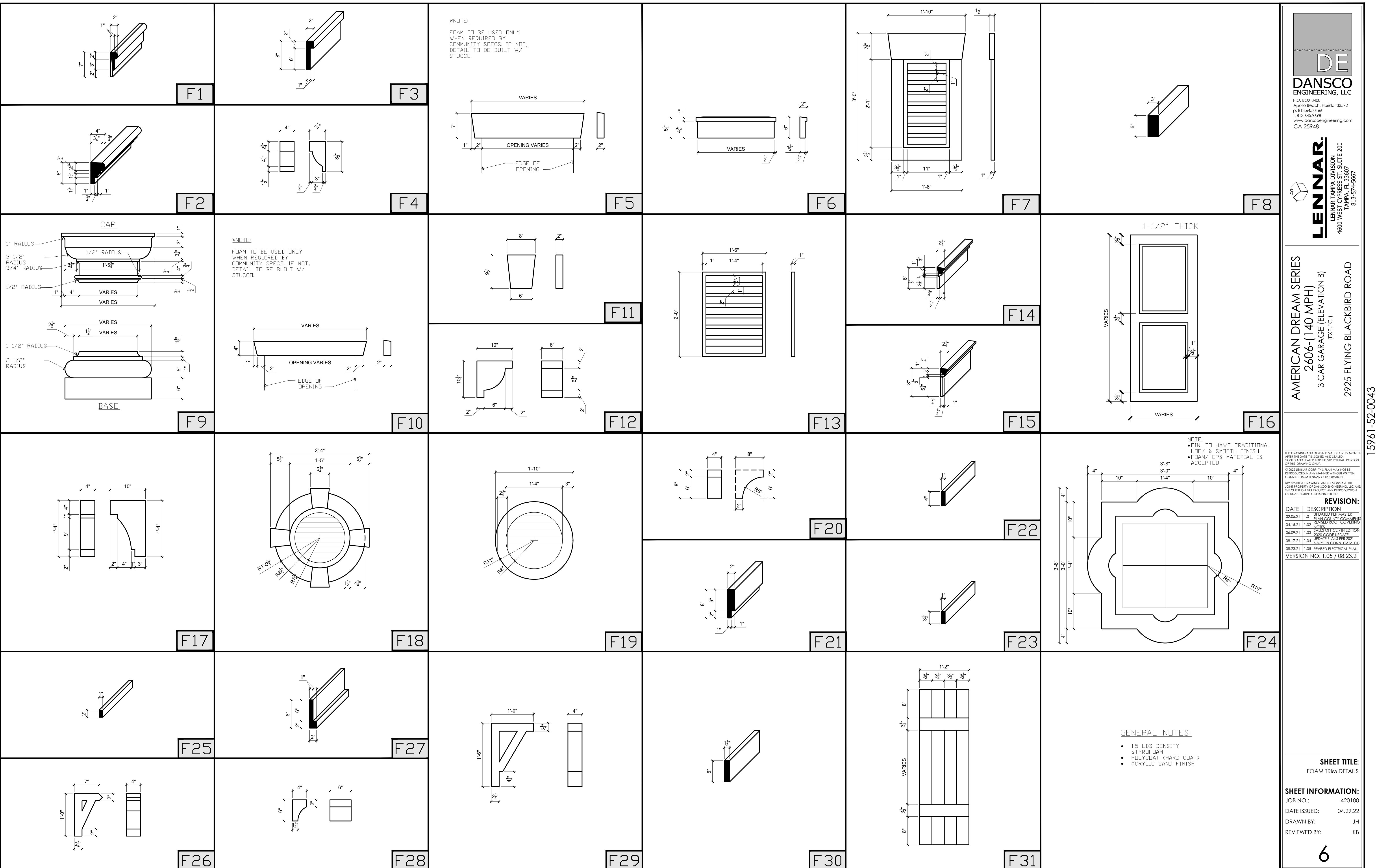
NOTE:
 FOAM TO BE USED ONLY
 WHEN REQUIRED BY
 COMMUNITY SPECS. IF NOT,
 DETAIL TO BE BUILT W/
 STUCCO.

NOTE:
 FOAM TO BE USED ONLY
 WHEN REQUIRED BY
 COMMUNITY SPECS. IF NOT,
 DETAIL TO BE BUILT W/
 STUCCO.

NOTE:
 FIN TO HAVE TRADITIONAL
 LOOK & SMOOTH FINISH
 FOAM/ EPS MATERIAL IS
 ACCEPTED

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 08.23.21 | 1.05 | REVISED ELECTRICAL PLAN
 VERSION NO. 1.05 / 08.23.21



STRUCTURAL NOTES										
<p>4.2. CONCRETE :</p> <p>4.2.1. CONCRETE TYPE MIN. 28 DAY DESIGN (F'c) MODULES OF ELASTICITY DESIGN (E)</p> <table border="1"> <tr> <td>C-I-P CONCRETE (NORMAL WEIGHT)</td> <td>2500 Psi</td> <td>2850 Ksi</td> </tr> <tr> <td>C-I-P CONCRETE (NORMAL WEIGHT) HERNANDO CO. ONLY</td> <td>3,000 Psi</td> <td>3/122 Ksi</td> </tr> <tr> <td>C-I-P GROUT</td> <td>3,000 Psi</td> <td>3/122 Ksi</td> </tr> </table> <p>4.2.2. CONCRETE SHALL CONSIST OF 1" MAXIMUM AGGREGATE CONCRETE MIX WITH SLUMP BETWEEN 6" & 7" AT TIME OF PLACEMENT, SEE SPECIFICATIONS FOR ADDITIONAL CRITERIA.</p> <p>4.2.3. GROUT SHALL CONSIST OF PEA ROCK (3/8" MAXIMUM AGGREGATE) CONCRETE MIX WITH SLUMP BETWEEN 8" & 10" AT TIME OF PLACEMENT, SEE SPECIFICATIONS FOR ADDITIONAL CRITERIA.</p> <p>4.2.4. CONSTRUCTION JOINTS WILL BE PERMITTED</p> <p>4.2.5. METHOD OF CONCRETE FORMING, PLACEMENT AND CURING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AS STATED.</p> <p>4.2.6. EARTH SUPPORTS: GLABS (EXCLUDING TERRAIN WALKWAYS & DRIVEWAYS): 3 1/2" MIN. THICKNESS W/ MIN. REINFORCEMENT OF 6.0 x 6.0 IN. X 14.0 WNF IN TOP OF 1-1/2" OF SLAB, FIBER MESH PER DESIGN MIX MAY BE USED IN O.D. WNF @ CONTRACTOR'S DISCRETION.</p> <p>4.2.7. CONCRETE PLACEMENT PRACTICES SHALL BE IN ACCORDANCE W/ ALL ACI MCP STANDARDS (LATEST EDITION).</p>		C-I-P CONCRETE (NORMAL WEIGHT)	2500 Psi	2850 Ksi	C-I-P CONCRETE (NORMAL WEIGHT) HERNANDO CO. ONLY	3,000 Psi	3/122 Ksi	C-I-P GROUT	3,000 Psi	3/122 Ksi
C-I-P CONCRETE (NORMAL WEIGHT)	2500 Psi	2850 Ksi								
C-I-P CONCRETE (NORMAL WEIGHT) HERNANDO CO. ONLY	3,000 Psi	3/122 Ksi								
C-I-P GROUT	3,000 Psi	3/122 Ksi								
<p>4.3. CONCRETE MASONRY :</p> <p>4.3.1. FILLED CELLS W/ (1) #5 BAR SHALL BE LOCATED PEEL PLAN.</p> <p>4.3.2. LOAD BEARING CONCRETE MASONRY BLOCK SHALL BE ASTM C40-14, TYPE II NON-MOISTURE CONTROLLED.</p> <p>4.3.3. ALL CELLS & CAVITIES BELOW GRADE WILL BE FILLED W/ CONCRETE IN ALL STEM WALLS</p> <p>4.3.4. THE EXPOSED SURFACE OF THE BLOCK AND MORTAR SHALL BE Fm = 2,000 PSI MINIMUM</p> <p>4.3.5. METHOD OF CONCRETE MASONRY PLACEMENT AND CONSTRUCTION SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AS STATED.</p> <p>4.3.6. MORTAR SHALL BE TYPE "S" FOR ALL MASONRY CONSTRUCTION.</p> <p>4.3.7. MASONRY ROUGH OPENING MAY VARY IN THE CROSS SECTION DIMENSION OR ELEVATION DIMENSION SPECIFIED ON THE APPROVED PLANS FROM -1/4" TO +1/2" PER SECTION R606.3.1</p>										
<p>4.4. STRUCTURAL LUMBER :</p> <p>4.4.1. INTERIOR LOAD BEARING WALLS SPF STUD OR BETTER, Fb = 675 PSI, E = 1200 KSI</p> <p>4.4.2. ALL EXTERIOR FRAMING SPPF #2 OR BETTER, Fb = 875 PSI, E = 1400KSI</p> <p>4.4.3. ALL FRAME WALLS TO BE CONSTRUCTED USING SPF , STUD QUALITY OR BETTER, UNLESS NOTED OTHERWISE</p> <p>4.4.4. ALL PLYWOOD USED FOR EXTERIOR APPLICATIONS SHALL BE GRADE D, 1/2" THICK</p> <p>4.4.5. ALL PLYWOOD USED FOR INTERIOR APPLICATIONS SUCH AS SUB FLOORING AND SHEAR WALLS SHALL BE APA RATED SHEATHING EXP 1 UNO</p> <p>4.4.6. IF OSB BOARD IS TO BE USED IN PLACE OF PLYWOOD IT IS TO HAVE SIMILAR OR GREATER SECTION PROPERTIES</p> <p>4.4.7. ONLY STRUCTURAL LUMBER IS TO BE USED FOR AN EXTERIOR APPLICATION, WOOD IN CONTACT WITH CONCRETE IS TO RECEIVE A STAINLESS STEEL PRESSURE TREATING, WHEN PREPARING TRUSS AREA, ALLOW FOR THE TRUSS TO SWING</p> <p>4.4.8. MANUFACTURER IS TO SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD, DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" BY THE TRUSS PLATE INSTITUTE TPI-14.</p> <p>4.4.9. UNLISTED MATERIALS SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE, SEAT PLATES SHALL BE PROVIDED AT BEARING LOCATIONS WITHOUT WOODEN TOP PLATES.</p> <p>4.4.10. ALL EXTERIOR FRAME WALLS SHALL BE STUCCO FINISH AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE FRC SECTION R703.1.2 AND WITH ASTM C426 INCLUDING THE REFERENCE IN ASTM C426 SECTION 8 TO SECTION XI.4.2 OF THE APPENDIX - 7/8" TOTAL THICKNESS OF THREE LAYERS (3/8" / 3/8" / 1/8") OVER A VAPOR RETARDER. THE EXTERIOR RESISTIVE BARRIER SHALL INCLUDE A MATTER-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 SHALL NOT BE OVERLAPPED. THE EXTERIOR RESISTIVE BARRIER SHALL BE APPLIED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND MANUFACTURER'S SPECIFICATIONS, CURE TIME FOR 3-COAT STUCCO, EACH COAT SHALL BE KEPT IN A MOIST CONDITION FOR AT LEAST 48 HOURS PRIOR TO THE APPLICATION OF THE NEXT COAT. THE 2ND COAT SHALL NOT BE APPLIED SOONER THAN 48 HRS AFTER APPLICATION OF THE 1ST COAT. THE 3RD COAT SHALL BE APPLIED NO SOONER THAN 48 HRS AFTER APPLICATION OF THE 2ND COAT, UNLESS APPLICATIONS INSTALLED IN ACCORDANCE WITH ASTM C426 INCLUDING THE REFERENCE IN ASTM C426 SECTION 8 TO SECTION XI.4.2 OF THE APPENDIX.</p> <p>4.4.11. INSTALLATION OF EXTERIOR LATHE & FRAMING SHALL COMPLY TO ASTM C 1063 PER FLORIDA RESIDENTIAL CODE R102.7.1</p> <p>4.4.12. FIELD CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESERVATIVELY TREATED WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH ANFA M 4</p>										
<p>4.5. FASTENERS AND TIE DOWNS :</p> <p>4.5.1. FASTENERS AND TIE DOWNS SHALL CONSIST OF BUT ARE NOT LIMITED TO :</p> <ul style="list-style-type: none"> • SHAPES, ANGLES, CHANNELS ; ASTM A36/36M-14 Fy = 36 ksi • ROUND METAL PIPE ; ASTM A53/A53M-12, GRADE B Fy = 36ksi • STEEL TUBING ; ASTM A500-20, GRADE B Fy = 46ksi • HIGH STRENGTH TIE DOWNS - ASTM A307-14 MACHINE BOLTS - GALVANIZED ASTM A307-14 <p>4.5.2. SHEET METAL ACCESSORIES SHALL CONFORM TO : Fy = 33ksi WITH G90 GALVANIZED COATING IN ACCORDANCE WITH ASTM A525-43.</p> <p>4.5.3. NAILS SHALL CONSIST OF : COMMON WIRE NAILS WITH MINIMUM DIAMETER AS FOLLOWS : Ed = 0.13", Id = 0.14", Ld = 0.14", Ed = 0.162"</p> <p>4.5.4. NAILS AND TIE DOWNS EMBEDDED CONCRETE OR USED IN AN EXTERIOR APPLICATION ARE TO RECEIVE AN ANTI-CORROSION COATING BY MANUFACTURER PRIOR TO INSTALLATION.</p> <p>4.5.5. ALL FASTENERS AND TIE DOWNS ARE TO PROVIDE THE UPLIFT CAPACITY CALLED FOR IN THE PLANS ARE A MINIMUM.</p> <p>4.5.6. ALL FASTENER, BEAM, HANGERS, JOIST HANGERS, AND FLOOR TRUSSES, ETC. ARE TO BE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.</p> <p>4.5.7. CONCRETE EMBEDDED BOLTS USED FOR UPLIFT ARE TO BE IN SEPARATE INITIAL SET OF THE CONCRETE, SPACING AND ALIGNMENT ARE TO BE IN ACCORDANCE WITH THE DESIGN PLANS, UNO, ALTERNATES TO "J" BOLTS ARE NOTED ON PLANS.</p> <p>4.5.8. CONCRETE EMBEDDED TIE DOWNS USED FOR TRUSS AND WALL UPLIFT ARE TO BE PLACED AROUND EMBEDDED REINFORCING PRIOR TO OR WHILE PLACING GROUT.</p> <p>4.5.9. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM DANSCO ENGINEERING, LLC PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF DEBRIS. DEBRIS MUST BE CAST-IN-PLACE ANCHORS.</p> <p>4.5.10. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.</p> <p>4.5.11. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S PROCESS INSTRUCTIONS (MPI).</p> <p>4.5.12. SUBSTITUTED PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR, TO DO ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE (MINIMUM VALUE) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS) AS REQUIRED BY THE FLORIDA BUILDING CODE.</p> <p>4.5.13. PROVIDE PERIODIC SPECIAL INSPECTION FOR THRESHOLD BUILDINGS FOR ALL ADHESIVE AND MECHANICAL ANCHORS PER THE PRODUCT'S FLORIDA PRODUCT APPROVAL.</p> <p>4.5.14. CONTRACTOR SHALL PURCHASE AND FURNISH FOR THE INSTALLATION AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY, CALL SIMPSON STRONG-TIE AT (202) 999-5099, CALL HILTI AT (866) 445-8221.</p> <p>4.5.15. MECHANICAL ANCHORS SHALL HAVE BEEN QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES ACI33 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION.</p> <p>4.5.16. PRE-QUALIFIED ANCHORS INCLUDE:</p> <ul style="list-style-type: none"> • A) SIMPSON STRONG-TIE® OR HILTI® "KHK/HUS-EZ" • B) EXPANSION SIMPSON STRONG-TIE® "STRONG-BOLT 2" OR HILTI® "KHK/HUS-EZ" <p>4.5.17. A) EXPANSION ANCHORS SHALL HAVE BEEN QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND C) EXPANSION ANCHORS FOR CONCRETE RECOGNITION.</p> <p>4.5.18. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS PER ACI 318-14 D.2.2. HOLES SHALL BE DRY AT THE TIME OF INSTALLATION. ADHESIVES SHALL HAVE MAX IN-SERVICE SHORT-TERM TEMPERATURE OF 150°F, AND MAX IN-SERVICE TEMPERATURE OF 100° (ACI 318 D.4.2). PRE-APPROVED ADHESIVE ANCHORS INCLUDE:</p> <ul style="list-style-type: none"> • A) EPOXY: SIMPSON STRONG-TIE® "SET-XP" OR HILTI® "HIT-RE 500-SD" • B) FAST CURE: SIMPSON STRONG-TIE® "AT-XP" OR HILTI® "HIT-HY 200" <p>4.5.19. POST-INSTALLED ANCHORS INTO MASONRY</p> <p>4.5.20. I. MECHANICAL ANCHORS INSTALLED IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACI3 OR ACI06. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:</p> <ul style="list-style-type: none"> • A) EXPANSION SIMPSON STRONG-TIE® "STRONG-BOLT 2" OR HILTI® "KHK/HUS-EZ" • B) EXPANSION SIMPSON STRONG-TIE® "STRONG-BOLT 2", "EDGE-BOLT" OR HILTI® "KHK/BOL 3" <p>4.5.21. 2. ADHESIVE ANCHORS INSTALLED IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACI3 OR ACI06. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:</p> <ul style="list-style-type: none"> • A) EPOXY: SIMPSON STRONG-TIE® "SET-XP" • B) FAST CURE: SIMPSON STRONG-TIE® "AT-XP" OR HILTI® "HIT-HY 200" <p>4.5.22. 3. ADHESIVE ANCHORS INSTALLED IN HOLLOW CONCRETE MASONRY & UNREINFORCED CLAY BRICK MASONRY SHALL HAVE BEEN QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACI3 OR ACI06, RESPECTIVELY. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:</p> <ul style="list-style-type: none"> • A) EXPANSION SIMPSON STRONG-TIE® "SET-XP" OR HILTI® "HIT-HY 200" • B) EXPANSION SIMPSON STRONG-TIE® "STRONG-BOLT 2" OR HILTI® "KHK/HUS-EZ" <p>4.5.23. 4. THE APPROPRIATE GREEN UMBRELLA™ BEING USED FOR ALL ADHESIVE ANCHORS INSTALLED IN HOLLOW CONCRETE MASONRY OR UNREINFORCED CLAY BRICK MASONRY AS REQUIRED BY THE ADHESIVE MANUFACTURER.</p>										
<p>4.6. MICRO-LAM LUMBER:</p> <p>4.6.1. MICRO-LAM STRESS GRADES SHALL PROVIDE THE FOLLOWING MINIMUM PROPERTIES:</p> <table border="1"> <tr> <td>E = 2000000 PSI</td> </tr> <tr> <td>Fp = 2850 PSI</td> </tr> <tr> <td>Ft = 1,850 PSI</td> </tr> <tr> <td>Fg = 500 PSI (PERPENDICULAR)</td> </tr> <tr> <td>Fc = 2,100 (PARALLEL)</td> </tr> <tr> <td>Fv = 285 PSI</td> </tr> </table> <p>4.7. STEEL:</p> <p>4.7.1. INSTALLATION OF ALL STEEL TO BE PERFORMED BY AN EXPERIENCED, QUALIFIED STEEL ERECTOR.</p> <p>4.7.2. FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".</p> <p>4.7.3. STRUCTURAL STEEL: ASTM A36/36M-14.</p> <p>4.7.4. STEEL TUBING: ASTM A500-20, GRADE B.</p> <p>4.7.5. WELDING: AUTOMATIC, SEMI-AUTOMATIC, OR FLAME CUTTING, MINIMUM SIZE FILLET WELDS 3/16", AWS CERTIFIED WELDERS, CERTIFICATION PAPERS TO BE SUBMITTED UPON REQUEST.</p> <p>4.7.6. WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES ON EACH SIDE OF THE WEB, OF A THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED AT THE CENTER LINE OF THE TUBE COLUMN.</p> <p>4.7.7. THE STEEL FRAME IS "NON-SELF SUPPORTING"; ADEQUATE TEMPORARY SUPPORT SHALL BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.</p>		E = 2000000 PSI	Fp = 2850 PSI	Ft = 1,850 PSI	Fg = 500 PSI (PERPENDICULAR)	Fc = 2,100 (PARALLEL)	Fv = 285 PSI			
E = 2000000 PSI										
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Fc = 2,100 (PARALLEL)										
Fv = 285 PSI										
<p>4.8. SOIL:</p> <p>4.8.1. THE FOOTING IS DESIGNED BASE ON 2000 PSF SOIL BEARING PRESSURE, CONTRACTOR/OWNER SHALL VERIFY SOIL BEARING PRESSURE OF THE PROPOSED SITE.</p> <p>4.8.2. ALL SOIL IS TO BE CLEAN & POISONED FOR TERMITES PER FBC 7TH EDITION (2020) RESIDENTIAL SECTIONS R310.1, R310.2, R310.3, & R310.7</p> <p>TERMITIC PROTECTION -</p> <p>PLANS MUST SPECIFY TYPE OF TERMITE TREATMENT</p> <p>• SOIL CHEMICAL BARRIER METHOD</p> <p>• OTHER TREATMENT MUST SPECIFY PROPOSED METHOD AND SUBMIT DOCUMENTATION, WHICH MUST SUPPORT THE PROPOSED METHOD, IS AN APPROVED TERMITE PROTECTION SYSTEM OR METHOD.</p> <p>IF CHEMICAL SOIL TERMITE TREATMENT IS USED</p> <p>1. FBC 102.11 - A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL."</p> <p>2. CONDENSATE AND ROOF DOWNGUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM THE BUILDING SIDE WALLS.</p> <p>3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALL.</p> <p>4. FBC R308.7 - IN ORDER TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, CLEARANCE BETWEEN EXTERIOR WALL COVERINGS AND FINAL EARTH GRADE ON THE EXTERIOR OF A BUILDING SHALL NOT BE LESS THAN 6" & INCHES (152 MM) EXCEPT:</p> <ul style="list-style-type: none"> 1. PAINT OR DECORATIVE CEMENTITIOUS FINISH LESS THAN 3/8 INCH (10.1 MM) THICK ADDED DIRECTLY TO THE MASONRY FOUNDATION SIDEWALL; 2. ACCESS OR VEHICLE RAMPS WHICH RISE TO THE INTERIOR FINISH FLOOR ELEVATION FOR THE WIDTH OF SUCH RAMPS ONLY; 3. A 4-INCH (102 MM) INSPECTION SPACE ABOVE PATIO AND GARAGE SLABS AND ENTRY AREAS; 4. IF THE PATIO HAS BEEN SOIL TREATED FOR TERMITES, THE FINISH ELEVATION MAY MATCH THE BUILDING INTERIOR FINISH FLOOR ELEVATIONS ON MASONRY CONSTRUCTION ONLY; 5. MASONRY VENEERS CONSTRUCTED IN ACCORDANCE WITH SECTION R310.4. <p>5. R308.11 IF SOIL TREATMENT USED FOR SUBTERRANEAN TERMITE PREVENTION, THE INITIAL CHEMICAL SOIL TREATMENT INSIDE THE FOUNDATION PERIMETER SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING AND COMPACTION IS COMPLETE.</p> <p>6. R308.12 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SOIL AREAS TREATED WITH INSECTICIDES SHALL NOT BE TREATED WITH A CHEMICAL SOIL TREATMENT INCLUDING SPRAY BOVED OR FORMIC.</p> <p>7. R308.13 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SPACE IN CONCRETE FLOORS BOXED OUT OR FORMED FOR THE SUBSEQUENT INSTALLATION OF PLUMBING TRAPS, DRAINS OR ANY OTHER PURPOSE SHALL BE CREATED BY USING PLASTIC OR METAL PERMANENTLY PLACED FORMS OF SUFFICIENT DEPTH TO ELIMINATE ANY PLANNED SOIL DISTURBANCE AFTER INITIAL CHEMICAL SOIL TREATMENT.</p> <p>8. R308.14 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICALLY TREATED SOIL SHALL BE PROTECTED WITH A MINIMUM 6 MIL VAPOR RETARDER TO PROTECT AGAINST RAINFOIL DILUTION, IF RAINFOIL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. ANY WORK, INCLUDING PLACEMENT OF REINFORCING STEEL, DONE AFTER CHEMICAL TREATMENT UNTIL THE CONCRETE FLOOR IS PLACED SHALL BE DONE IN SUCH MANNER AS TO AVOID PENETRATING THE VAPOR RETARDER.</p> <p>9. R308.15 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO EXTERIOR CHEMICAL SOIL TREATMENT, TO ENHANCE VERTICAL PENETRATION OF THE CHEMICALS.</p> <p>10. R308.16 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICAL SOIL TREATMENTS SHALL ALSO BE APPLIED UNDER ALL EXTERIOR CONCRETE OF GRADE I WITH 1 FOOT (305 MM) OF THE PRIMARY STRUCTURE SIDEWALLS. ALSO, A VERTICAL CHEMICAL BARRIER SHALL BE APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED, INCLUDING INITIAL LANDSCAPING AND IRRIGATION/SPRINKLER INSTALLATION. ANY SOIL DISTURBED AFTER THE CHEMICAL VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED.</p> <p>11. R308.17 IF A REGISTERED TERMICIDE FORMULATED AND REGISTERED AS A BAIT SYSTEM IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SECTION R310.1 THROUGH SECTION R310.4 DO NOT APPLY; HOWEVER, A SIGNED CONTRACT ASSURING THE INSTALLATION, MAINTENANCE AND MONITORING OF THE BAITING SYSTEM FOR A MINIMUM OF FIVE YEARS FROM THE ISSUE OF THE CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO THE POURING OF THE SLAB, AND THE SYSTEM MUST BE INSTALLED PRIOR TO FINAL BUILDING APPROVAL.</p> <p>12. R308.18 IF A REGISTERED TERMICIDE FORMULATED AND REGISTERED AS A WOOD TREATMENT USED FOR SUBTERRANEAN TERMITE PREVENTION, SECTION R310.1 THROUGH R310.6 DO NOT APPLY. APPLICATION OF THE WOOD TREATMENT TERMICIDES SHALL BE REQUIRED BY LABEL INSTRUCTIONS FOR USE, AND MUST BE COMPLETED PRIOR TO FINAL BUILDING APPROVAL.</p> <p>13. R308.19 TERMITE PROTECTION TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT IN NEW CONSTRUCTION. SEE SECTION 202, REGISTERED TERMICIDE, 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."</p> <p>14. R308.20 PROTECTIVE SLEEVES AROUND PIPING PENETRATING CONCRETE SLAB-ON-GRADE FLOORS SHALL NOT BE OF CELLULOSE-CONTAINING MATERIALS. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PROTECTION, THE SLEEVE SHALL HAVE A MAXIMUM WALL THICKNESS OF 0.010 INCH (25 MM), AND BE SEALED WITHIN THE SLAB USING A NON-CORROSIVE CLAMPING DEVICE TO ELIMINATE THE ANNULAR SPACE BETWEEN THE PIPE AND THE SLEEVE. NO TERMICIDES SHALL BE APPLIED INSIDE THE SLEEVE.</p> <p>15. R308.21 CLEANING, CELLS AND CAVITIES IN MASONRY UNITS AND AIR GAPS BETWEEN BRICK, STONE OR MASONRY VENEERS AND THE STRUCTURE SHALL BE CLEANED OF ALL NON-PRESERVATIVE TREATED OR NON-NATURALLY DURABLE WOOD, OR OTHER CELLULOSE-CONTAINING MATERIAL PRIOR TO CONCRETE PLACEMENT.</p> <p>16. R308.22 EXCEPTION: INORGANIC MATERIAL MANUFACTURED FOR CLOSING CELLS IN FOUNDATION CONCRETE MASONRY UNIT CONSTRUCTION OR CLEAN EARTH FILL PLACED IN CONCRETE MASONRY UNIT VOIDS BELOW SLAB LEVEL BEFORE TERMITE TREATMENT IS PERFORMED.</p> <p>17. R308.23 SOIL IS TO BE COMPACTED TO 15% MODIFIED PROCTOR AS DEFINED BY ASTM D 1557-12E</p> <p>NOTE: BORATE APPLIED TO ALL FRAME MEMBERS WITHIN 24" A.F.F. OR SENTRICON SYSTEM TO BE USED</p> <p>1) METHOD OF TREATMENT SHALL BE APPROVED BY THE GOVERNING JURISDICTION "LIQUID BORATE OR BOR-A-COR" PRODUCT OR SENTRICON SYSTEM, METHODS MUST BE DETERMINED AT PERMIT STAGE.</p> <p>2) 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.</p>										
<p>STRUCTURAL NOTES</p> <p>REQUIRED SAFETY GLAZING IN HAZARDOUS LOCATIONS (RE: FRC R308.4)</p> <p>Safety Glazing</p> <p>R308.4 HAZARDOUS LOCATIONS. THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING:</p> <ol style="list-style-type: none"> 1. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BI-FOLD DOORS. 2. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 6 INCHES (152 MM) ABOVE THE FLOOR OR WALKING SURFACE AND IT MEETS EITHER OF THE FOLLOWING CONDITIONS: <ol style="list-style-type: none"> 1. WHERE THE GLAZING IS WITHIN 24 INCHES (610 MM) OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION. 2. WHERE THE GLAZING IS ON A WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES (610 MM) OF THE HINGE SIDE OF THE SWINGING DOOR. EXCEPTIONS: <ol style="list-style-type: none"> 1. DECORATIVE GLAZING, 2. WHERE THERE IS AN INTERVENING WALL OR OTHER PERMANENT BARRIER BETWEEN THE DOOR AND THE GLAZING, 3. WHERE ACCESS THROUGH THE DOOR IS TO A CLOSET OR STORAGE AREA 3 FEET (914 MM) OR LESS IN DEPTH, GLAZING IN THE APPLICATION SHALL COMPLY WITH SECTION R308.4.3, 4. GLAZING THAT IS ADJACENT TO THE FIXED PANEL OF PATIO DOORS 3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE WINDOW THAT MEETS ALL OF THE FOLLOWING CONDITIONS: <ol style="list-style-type: none"> 1. THE EXPOSED AREA OF AN INDIVIDUAL PANEL IS LARGER THAN 9 SQUARE FEET (0.236m²); AND 2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (451 mm) ABOVE THE FLOOR; AND 3. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES (914 mm) ABOVE THE FLOOR, AND 4. ONE OR MORE WALKING SURFACE ARE WITHIN 36 INCHES (914 MM) MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING. 										
<p>LENNAR</p> <p>LENNAR TAMPA DIVISION SUITE 200 4600 WEST CYPRESS ST, TAMPA, FL 33607 813-574-5700</p> <p>STANDARD SHEETS</p> <p>(USP CONNECTIONS - 140MPH, EXP. C)</p> <p>2925 FLYING BLACKBIRD ROAD</p> <p>(USP CONNECTIONS - 140MPH, EXP. C)</p> <p>15261-52-0043</p>										

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Rafter Span Table

MEMBER SIZE AND SPACING ⁽¹⁾	MAXIMUM LENGTH	MEMBER CONNECTIONS ⁽²⁾
2" x 4" @ 16' O.C.	7'-5"	(2) 16d TOENAILS
2" x 6" @ 16' O.C.	10'-8"	(2) 16d TOENAILS
2" x 8" @ 16' O.C.	13'-9"	(3) 16d TOENAILS
2" x 10" @ 16' O.C.	16'-5"	(1) USP HTW20 OR (3) 16d TOENAILS
2" x 12" @ 16' O.C.	19'-3"	(1) USP HTW20 OR (4) 16d TOENAILS
2" x 4" @ 24" O.C.	6'-1"	(2) 16d TOENAILS
2" x 6" @ 24" O.C.	8'-6"	(2) 16d TOENAILS
2" x 8" @ 24" O.C.	11'-0"	(2) 16d TOENAILS
2" x 10" @ 24" O.C.	13'-0"	(3) 16d TOENAILS
2" x 12" @ 24" O.C.	15'-4"	(1) USP HTW20 OR (3) 16d TOENAILS

* TOENAIL CONNECTIONS DESIGNED FOR SHEAR ONLY (i.e. RAFTER TO RIDGE BEAM).
** SOUTHERN YELLOW PINE 5PSF LOADING
(1) 2 x 4 MEMBER TO BE SYMM NON-DENSE OR BETTER

COMPONENT & CLADDING DESIGN PRESSURE

(140mph (Vasd = 108mph), ENCLOSED, 3 SEC. GUST, HIP ROOF 15/12 TO 4/4/12 PITCH, EXPOSURE C, HEIGHT = UP TO 30 FEET, OCCUPANCY CAT. II)

TRIBUTARY AREA (ft ²)	ROOF			WALL		
	ZONE 1	ZONE 2r	ZONE 2e, 3	ZONE 4	ZONE 5	
10	221	-49.1	221	-69.1	29.1	-321
20	19.0	-49.1	19.0	-62.1	28.3	-30.8
50	15.1	-38.4	15.1	-49.8	53.5	-26.6
100	14.0	-29.7	14.0	-43.4	25.2	-30.8
500	14.0	-29.7	14.0	-39.8	22.1	-24.6

NOTES:
1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE USE THE LOADS ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES.
3. TABLE VALUES HAVE BEEN MULTIPLIED BY 0.6 TO CONVERT COMPONENT AND CLADDING PRESSURES TO ASD.

COMPONENT & CLADDING DESIGN PRESSURE

(140mph (Vasd = 108mph), ENCLOSED, 3 SEC. GUST, GABLE ROOF 15/12 TO 4/4/12 PITCH, EXPOSURE C, HEIGHT = UP TO 30 FEET, OCCUPANCY CAT. II)

TRIBUTARY AREA (ft ²)	ROOF			WALL		
	ZONE 1, 2e	ZONE 2, 3e	ZONE 3r	ZONE 4	ZONE 5	
10	221	-54.1	221	-79.8	221	-34.9
20	19.0	-54.1	19.0	-68.9	19.0	-61.2
50	15.1	-33.3	15.1	-54.3	15.1	-63.3
100	14.0	-17.1	14.0	-43.4	14.0	-49.7
500	14.0	-17.1	14.0	-29.1	14.0	-49.7

NOTES:
1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE USE THE LOADS ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES.
3. TABLE VALUES HAVE BEEN MULTIPLIED BY 0.6 TO CONVERT COMPONENT AND CLADDING PRESSURES TO ASD.

CONNECTION CROSS-REFERENCE

MITRE USP (60° TH EDITION)			SIMPSON STRONG-TIE (C-C-2021)					
CONNECTOR	GRAVITY (lb/in)	UPLIFT (lb/in)	FASTENERS	CONNECTOR	GRAVITY (lb/in)	UPLIFT (lb/in)	LATERAL (lb/in)	FASTENERS

MASONRY CONCRETE APPLICATIONS		MASONRY CONCRETE APPLICATIONS	
HTA16	-	819	100
HTA20	-	910	100
RTM1	-	959	125
HTM16	-	1049	125
HTM20	-	1149	125
HTM25	-	1249	125
HTM30	-	1349	125
HTM35	-	1449	125
HTM40	-	1549	125
HTM45	-	1649	125
HTM50	-	1749	125
HTM55	-	1849	125
HTM60	-	1949	125
HTM65	-	2049	125
HTM70	-	2149	125
HTM75	-	2249	125
HTM80	-	2349	125
HTM85	-	2449	125
HTM90	-	2549	125
HTM95	-	2649	125
HTM100	-	2749	125
HTM105	-	2849	125
HTM110	-	2949	125
HTM115	-	3049	125
HTM120	-	3149	125
HTM125	-	3249	125
HTM130	-	3349	125
HTM135	-	3449	125
HTM140	-	3549	125
HTM145	-	3649	125
HTM150	-	3749	125
HTM155	-	3849	125
HTM160	-	3949	125
HTM165	-	4049	125
HTM170	-	4149	125
HTM175	-	4249	125
HTM180	-	4349	125
HTM185	-	4449	125
HTM190	-	4549	125
HTM195	-	4649	125
HTM200	-	4749	125
HTM205	-	4849	125
HTM210	-	4949	125
HTM215	-	5049	125
HTM220	-	5149	125
HTM225	-	5249	125
HTM230	-	5349	125
HTM235	-	5449	125
HTM240	-	5549	125
HTM245	-	5649	125
HTM250	-	5749	125
HTM255	-	5849	125
HTM260	-	5949	125
HTM265	-	6049	125
HTM270	-	6149	125
HTM275	-	6249	125
HTM280	-	6349	125
HTM285	-	6449	125
HTM290	-	6549	125
HTM295	-	6649	125
HTM300	-	6749	125
HTM305	-	6849	125
HTM310	-	6949	125
HTM315	-	7049	125
HTM320	-	7149	125
HTM325	-	7249	125
HTM330	-	7349	125
HTM335	-	7449	125
HTM340	-	7549	125
HTM345	-	7649	125
HTM350	-	7749	125
HTM355	-	7849	125
HTM360	-	7949	125
HTM365	-	8049	125
HTM370	-	8149	125
HTM375	-	8249	125
HTM380	-	8349	125
HTM385	-	8449	125
HTM390	-	8549	125
HTM395	-	8649	125
HTM400	-	8749	125
HTM405	-	8849	125
HTM410	-	8949	125
HTM415	-	9049	125
HTM420	-	9149	125
HTM425	-	9249	125
HTM430	-	9349	125
HTM435	-	9449	125
HTM440	-	9549	125
HTM445	-	9649	125
HTM450	-	9749	125
HTM455	-	9849	125
HTM460	-	9949	125
HTM465	-	10049	125
HTM470	-	10149	125
HTM475	-	10249	125
HTM480	-	10349	125
HTM485	-	10449	125
HTM490	-	10549	125
HTM495	-	10649	125
HTM500	-	10749	125
HTM505	-	10849	125
HTM510	-	10949	125
HTM515	-	11049	125
HTM520	-	11149	125
HTM525	-	11249	125
HTM530	-	11349	125
HTM535	-	11449	125
HTM540</td			

MIN. INSULATION REQUIREMENTS

LOCATION	R-VALUE / TYPE
EXT CONC WALL	R-4.2 HIGH PERM
EXT FRAME 2 x 4	R-11/R-13 KRAFT FACED
EXT FRAME 2 x 6	R-19 KRAFT FACED
CONDITIONED CEILING	R-38 BLOWN-IN
GARAGE SEPARATION (GARAGE / LIVING)	R-11/R-13 KRAFT FACED (WHERE REQUIRED)
REFER TO ENERGY CALCULATIONS FOR ANY ADDITIONAL REQUIREMENTS	

The drawings include detailed technical specifications for insulation requirements, structural soffit installation, garage slab at steps, typical bearing walls, interior wall slab steps, and patio column ftg. details. Each drawing is labeled with a reference number (e.g., S3, CC, G, E, F, L, N) and includes dimensions, material specifications, and construction details such as studs, plates, vapor barriers, and rebar.

PRzemyslaw Ciołko PE
LICENCE No. 86421
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SHEET TITLE:
SECTIONS, DETAILS, & NOTES

SHEET INFORMATION:

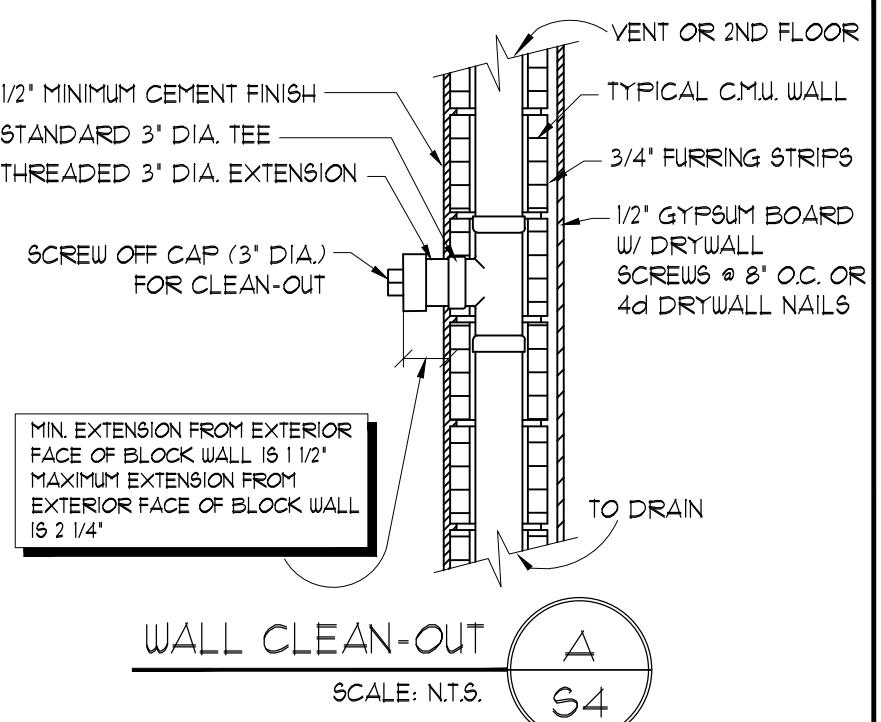
JOB NO.: 420180

DATE ISSUED: 04.29.22

DRAWN BY: KL

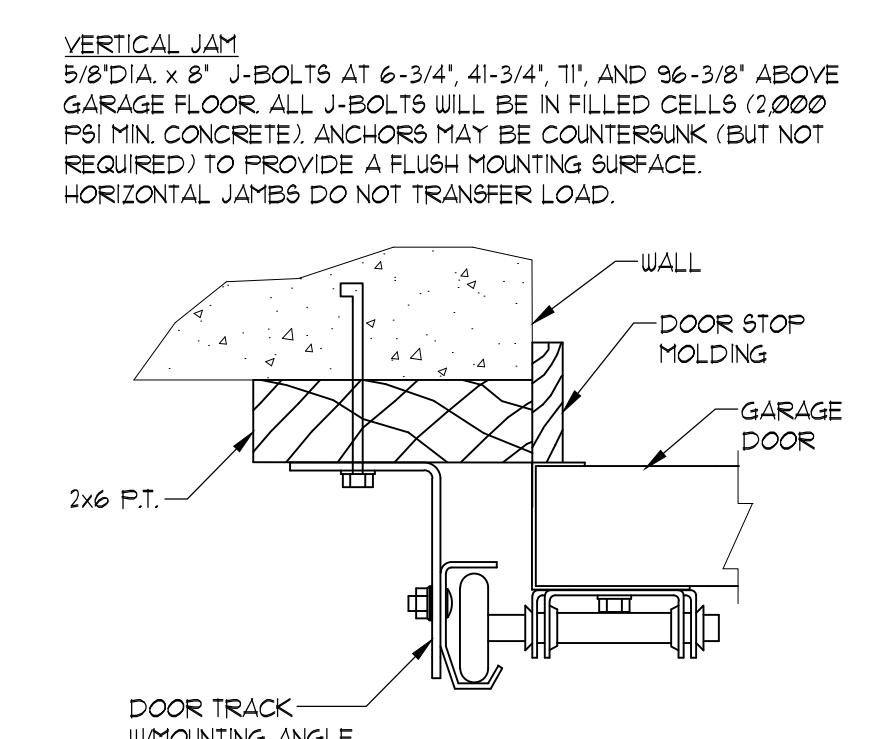
REVIEWED BY: KB

S4



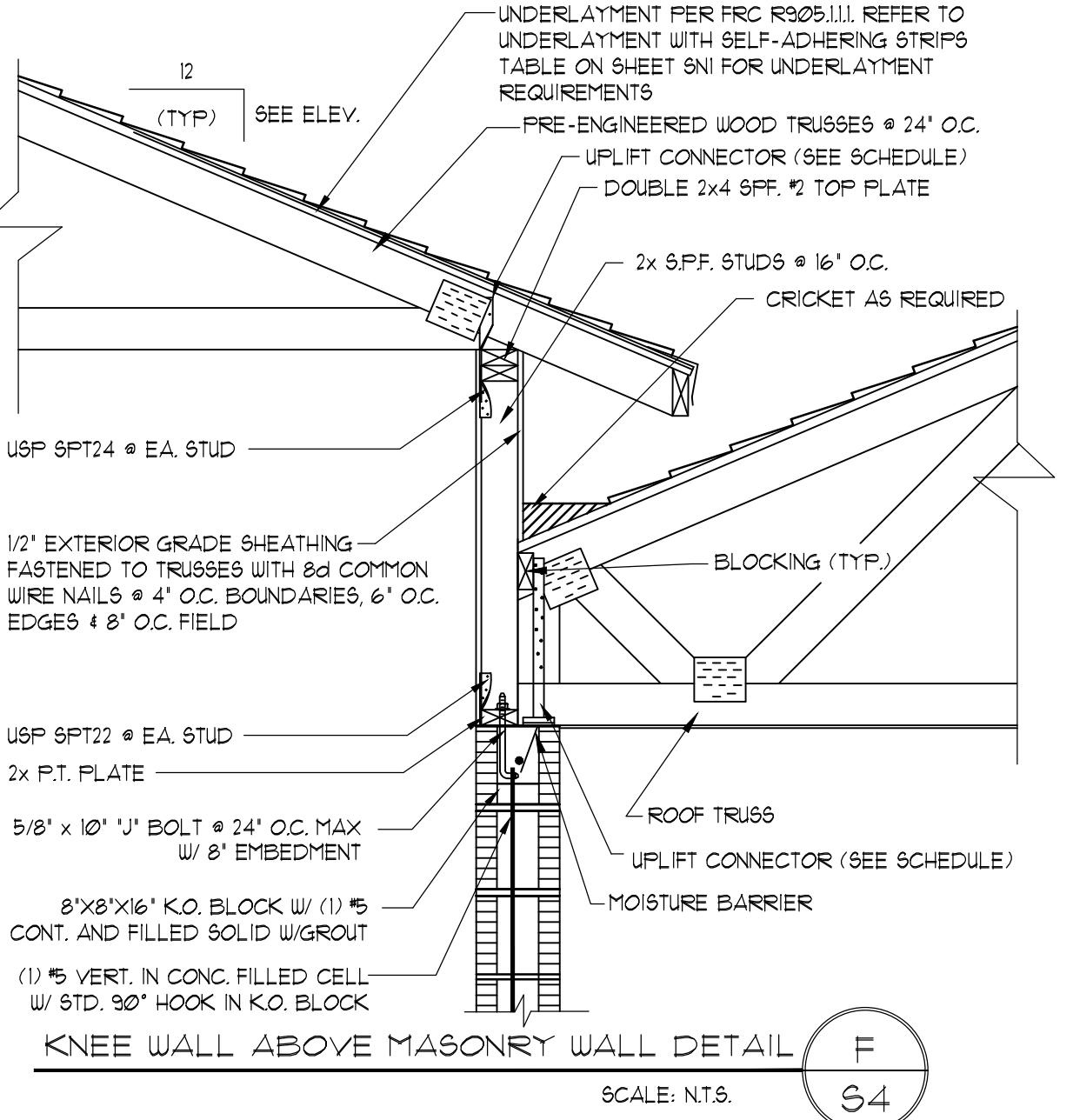
REFER TO WINDOW PRODUCT APPROVAL SHEETS FOR INSTALLATION INFORMATION BY MANUFACTURER.

TYPICAL SECTION THRU WINDOW B
S4

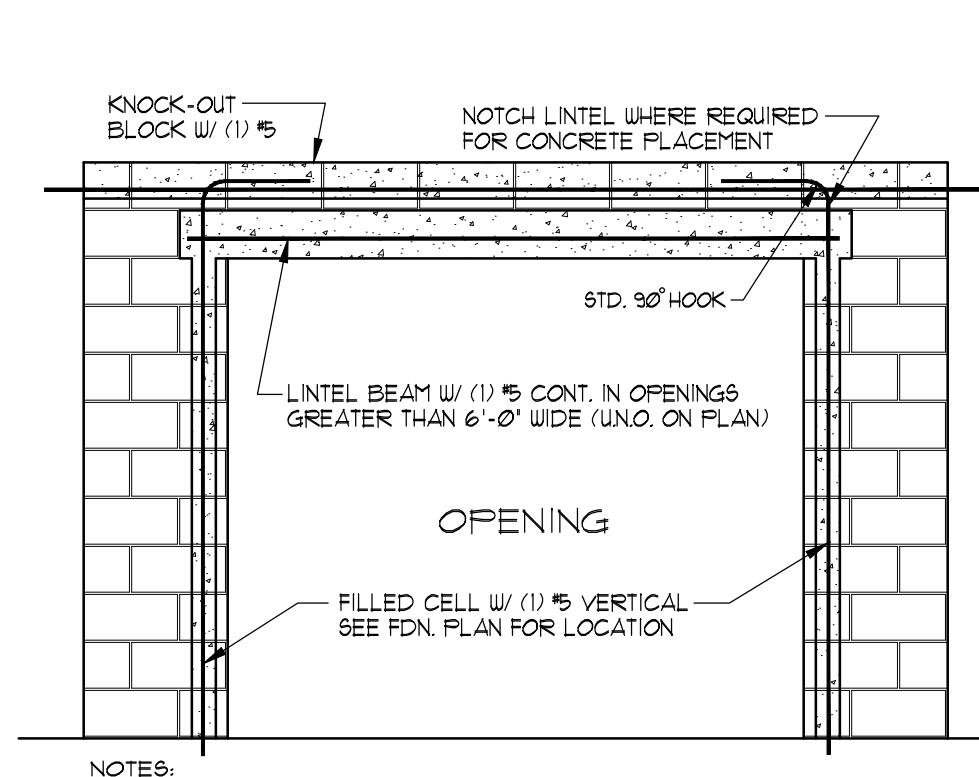


NOTE: REFER TO GARAGE DOOR PRODUCT APPROVAL SHEETS FOR DOOR INSTALLATION INFORMATION PER MANUFACTURER.

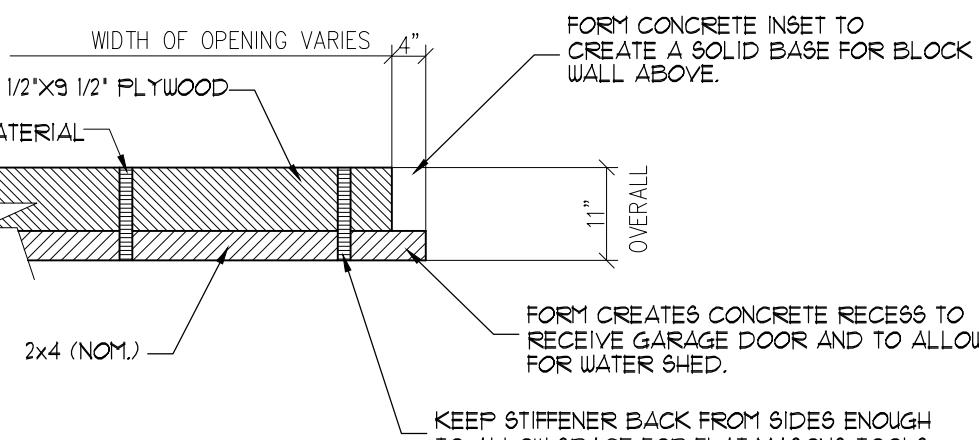
TYPICAL GARAGE DOOR BUCK K
S4



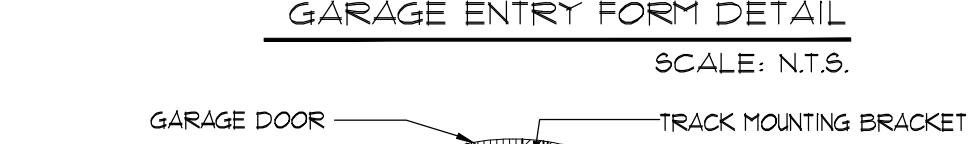
KNEE WALL ABOVE MASONRY WALL DETAIL F
S4



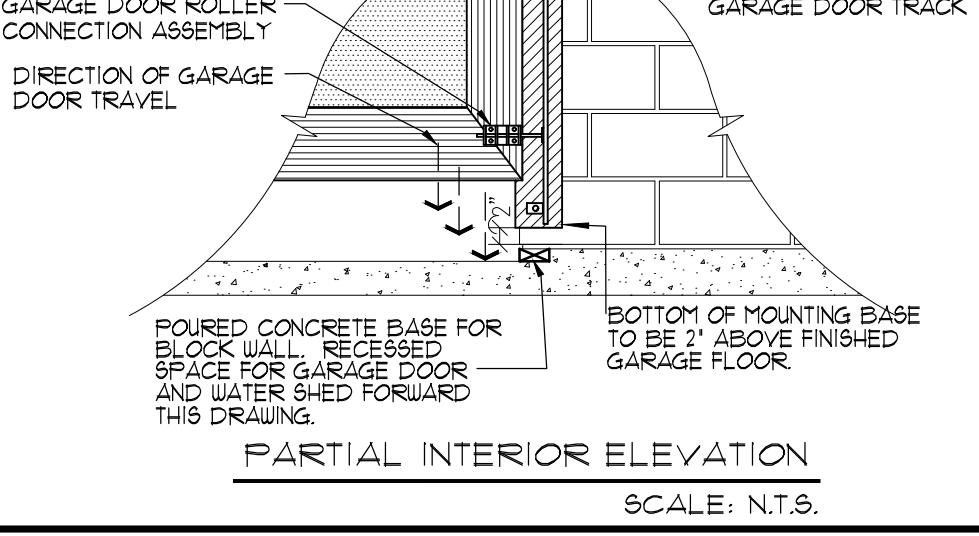
TYPICAL FILLED LINTEL ASSEMBLY G
S4



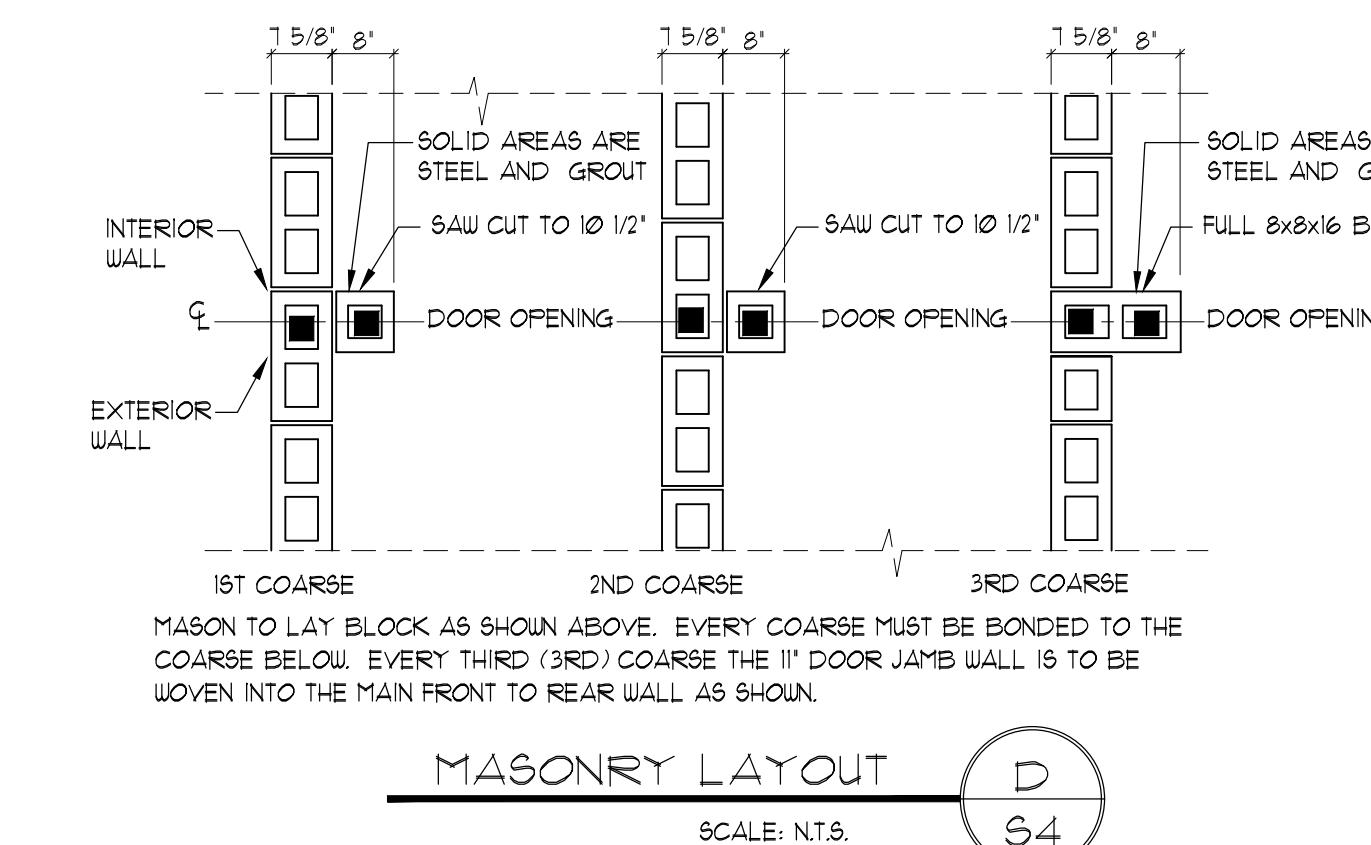
GARAGE ENTRY FORM DETAIL
SCALE: N.T.S.



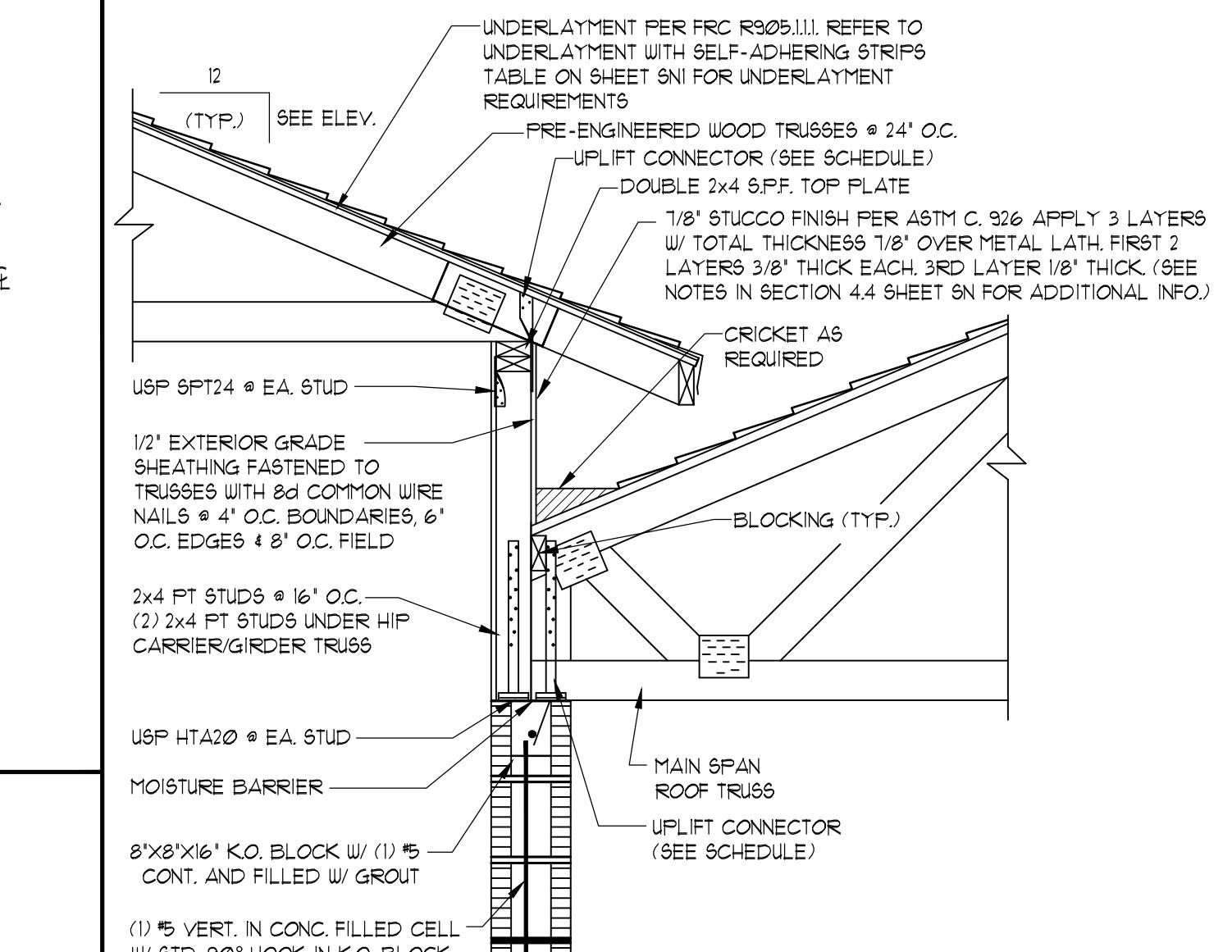
MOUNTING BASE DETAIL
SCALE: N.T.S.



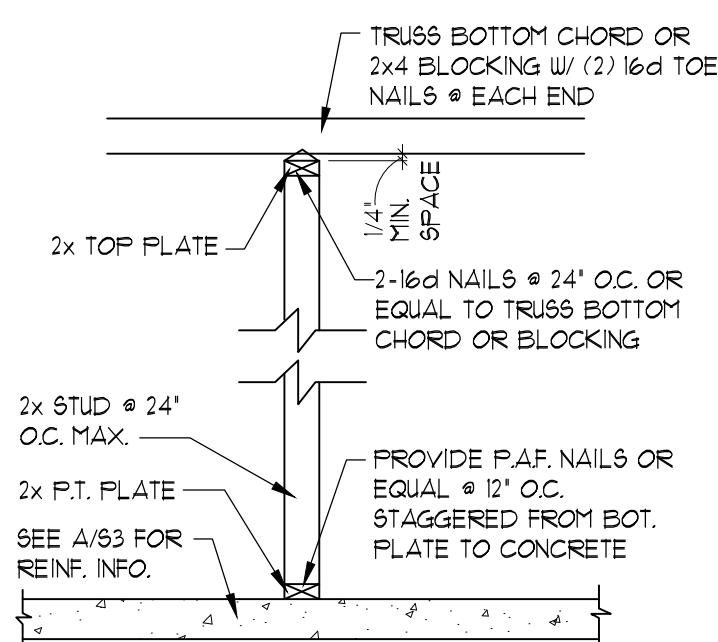
GARAGE ENTRY FINISHED MASONRY DETAIL
SCALE: N.T.S.



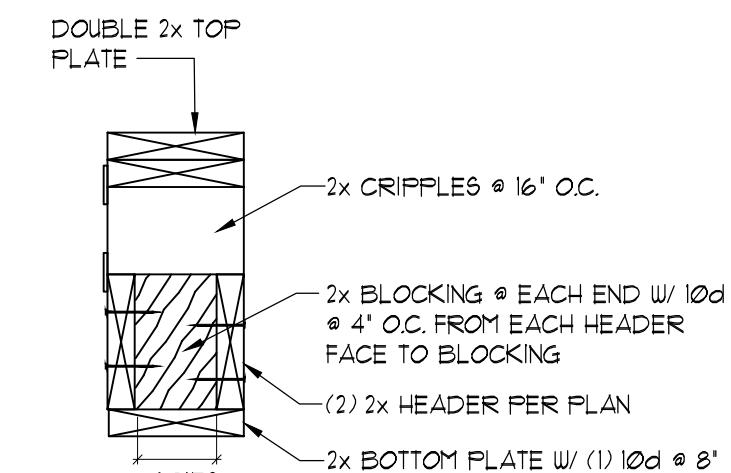
MASONRY LAYOUT D
S4



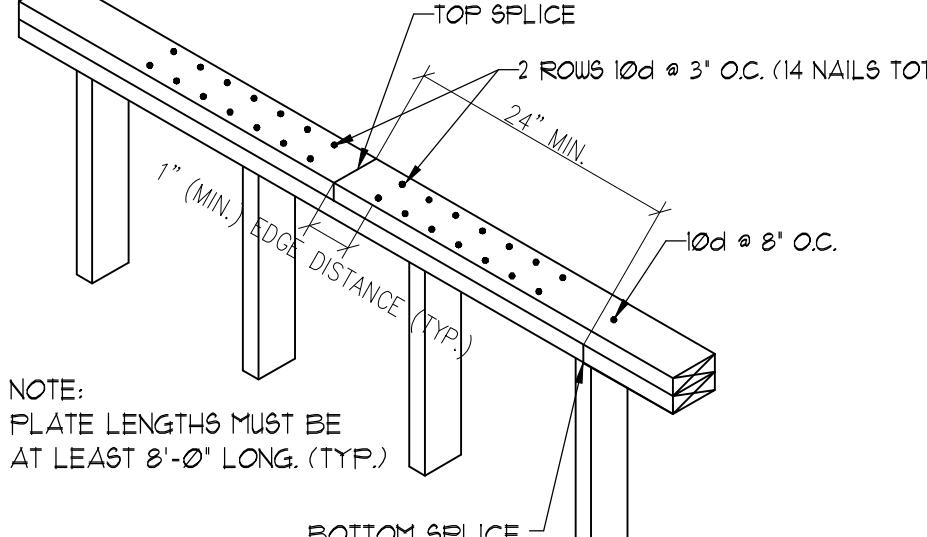
ALT. KNEEWALL ABOVE MASONRY WALL DETAIL E
S4



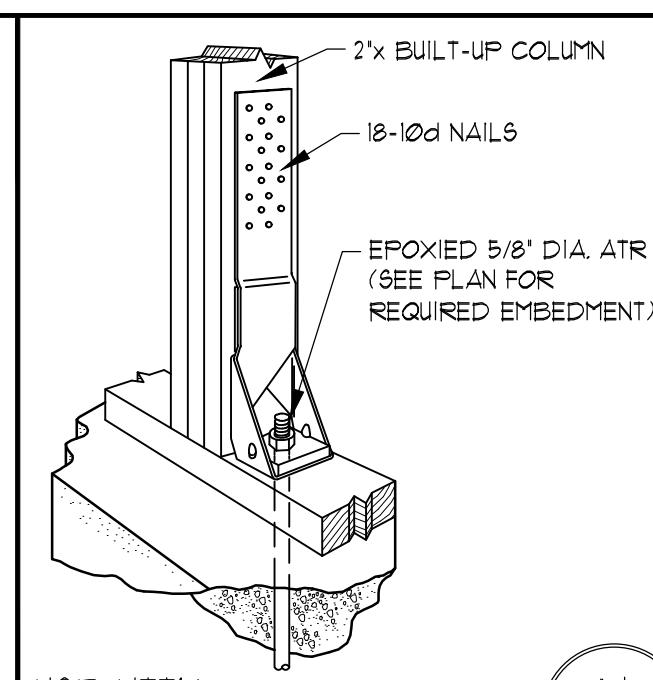
TYPICAL INTERIOR NON-BEARING WOOD FRAME WALL J
S4



2 X 6 (MIN.) FRAME WALL HEADER DETAIL I
S4

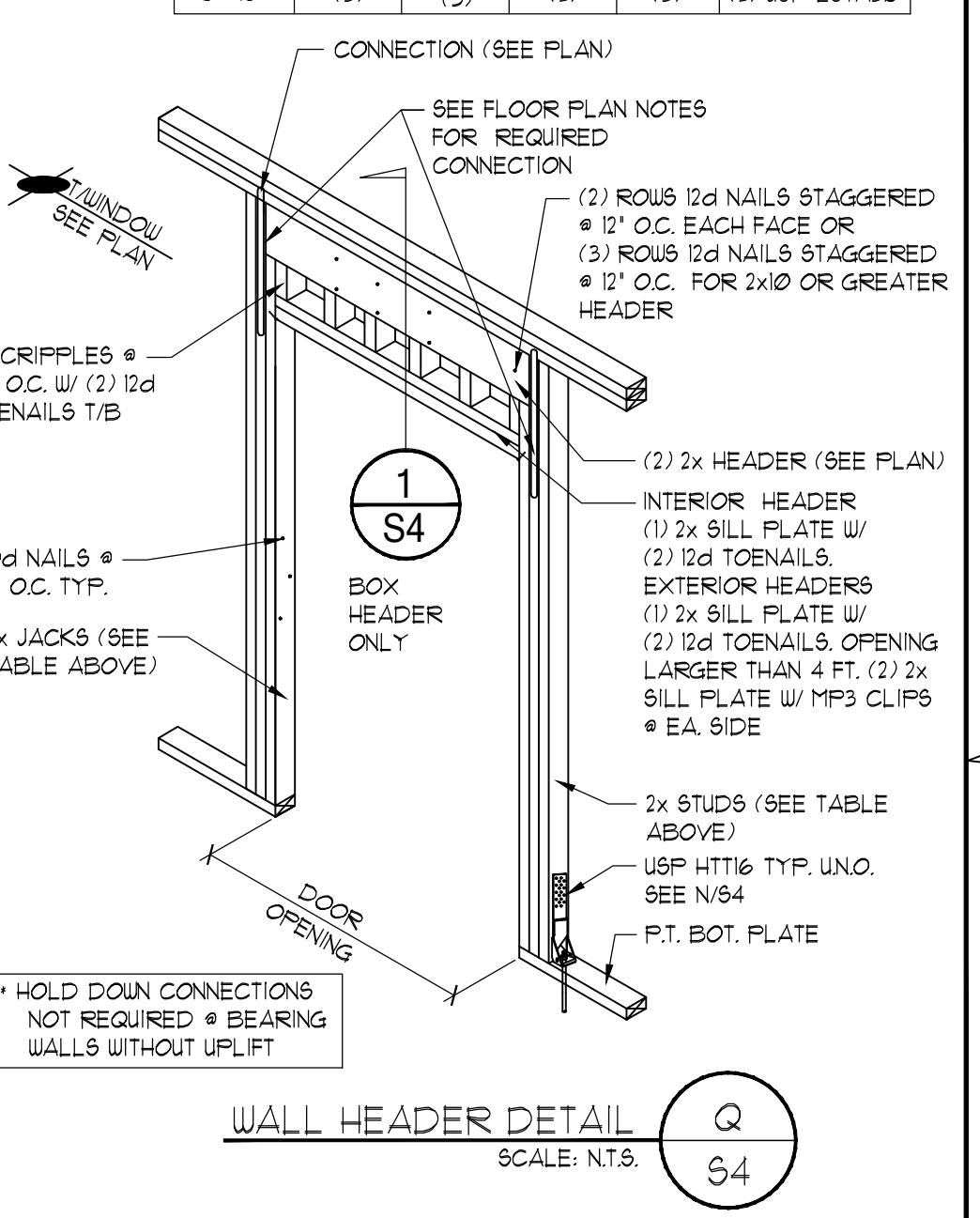


TOP PLATE SPLICE DETAIL M
S4

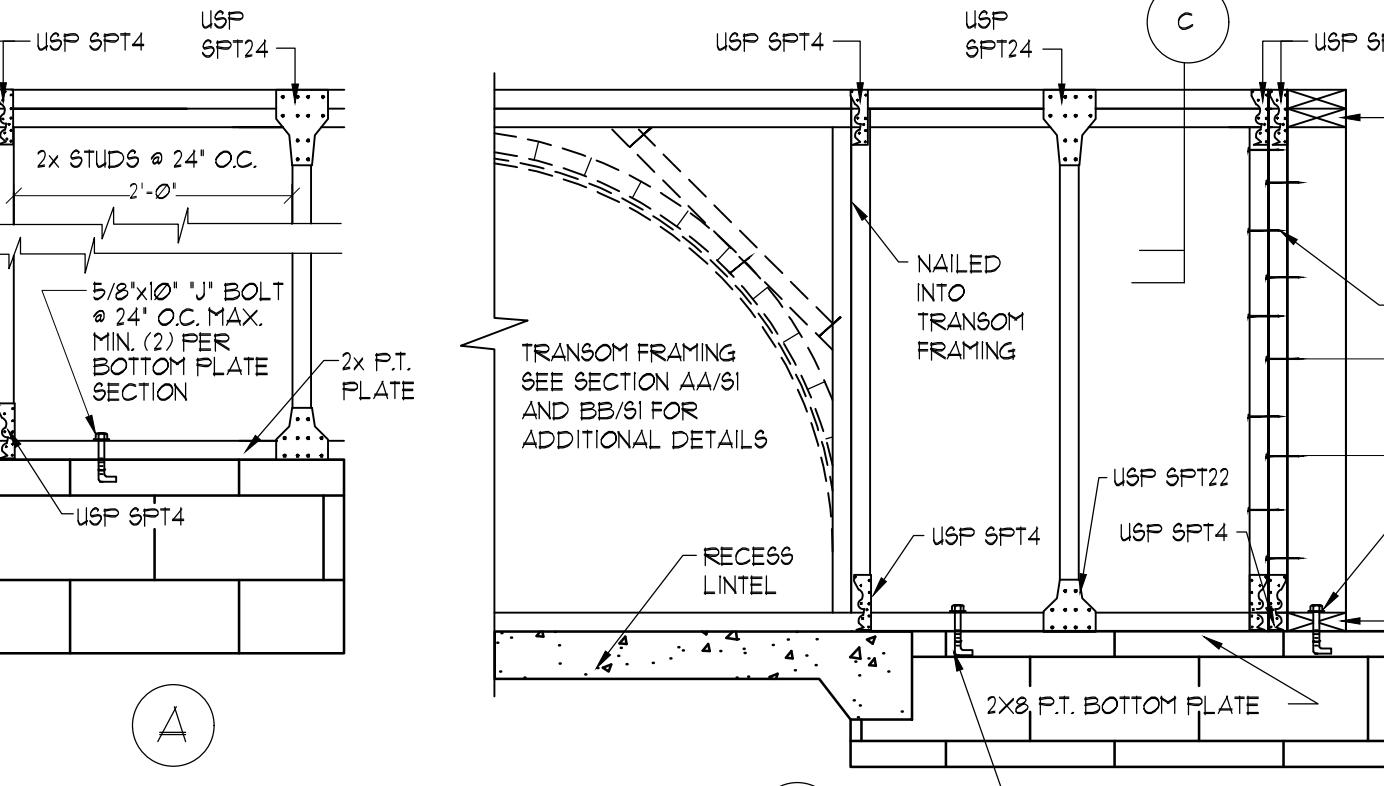


USP HTT16 N
S4

HEADER SUPPORT NO. OF JACKS & STUDS REQ. AT OPENINGS					
OPENING SIZE	2X4 WALL JACKS STUDS EA END		2X6 WALL JACKS STUDS EA END		STRAPS (UNO. ON PLAN)
1' - 4"	(1)	(2)	(1)	(2)	(1) USP LSTA30
4' - 9"	(2)	(3)	(2)	(2)	(1) USP LSTA30
9' - 16'	(3)	(3)	(2)	(3)	(2) USP LSTA30



WALL HEADER DETAIL Q
S4



HEADER SUPPORT NO. OF JACKS & STUDS REQ. AT OPENINGS A
S4

USP SPT4

USP SPT24

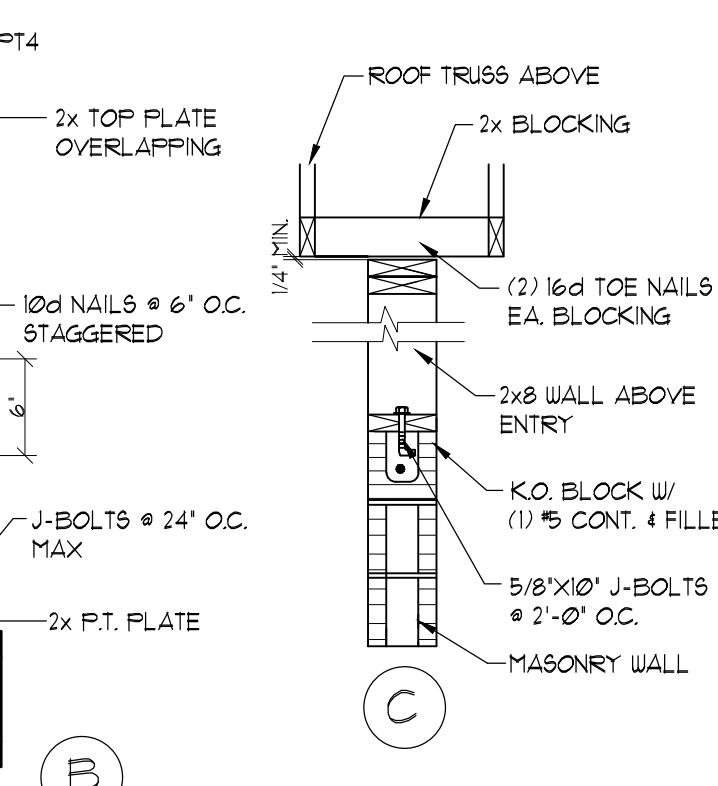
USP SPT4

USP SPT24

USP SPT4

USP SPT24

USP SPT4



HEADER SUPPORT NO. OF JACKS & STUDS REQ. AT OPENINGS B
S4

USP SPT4

USP SPT24

USP SPT4

USP SPT24

USP SPT4

USP SPT24

USP SPT4

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USP SPT4</b

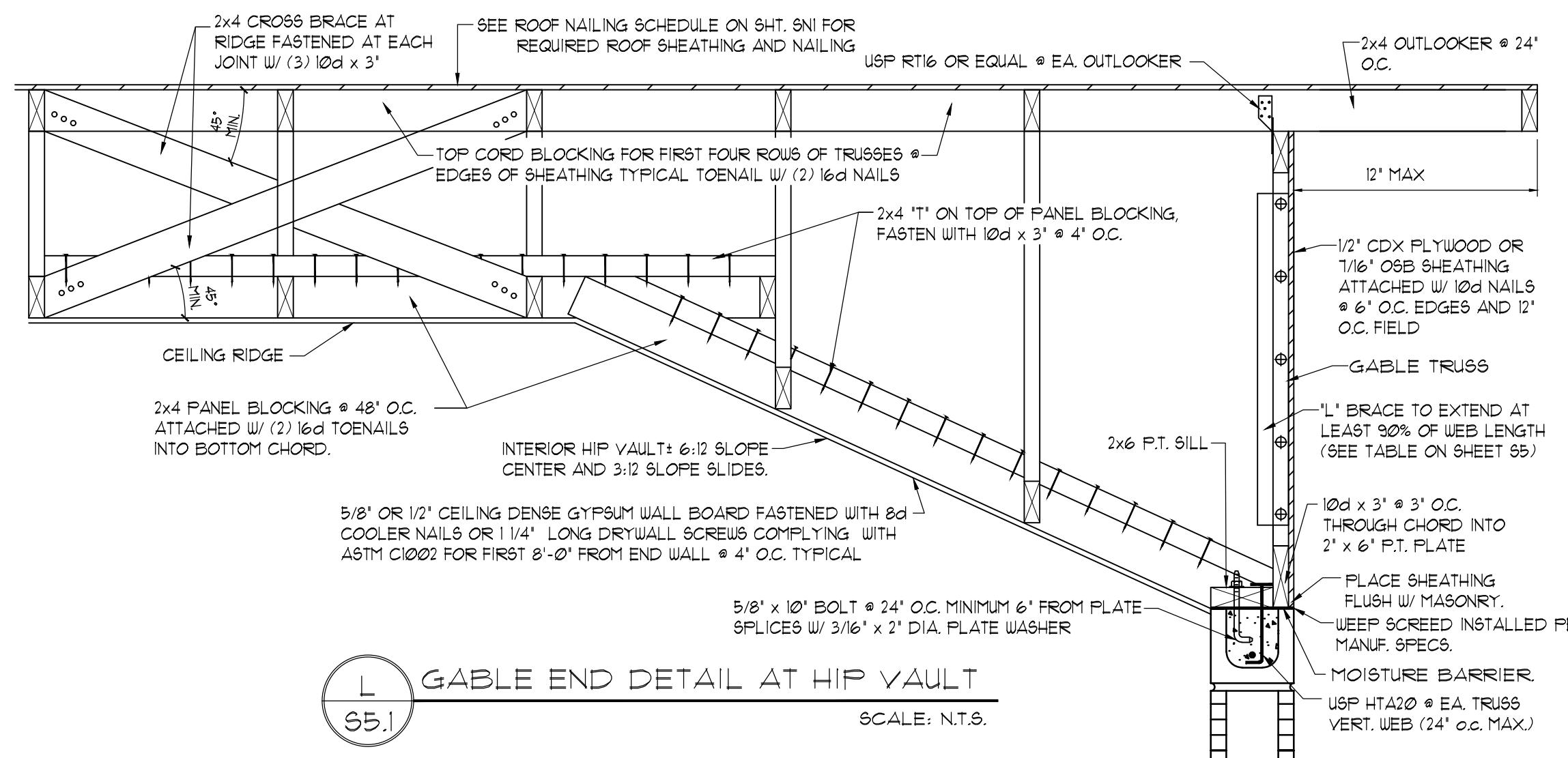
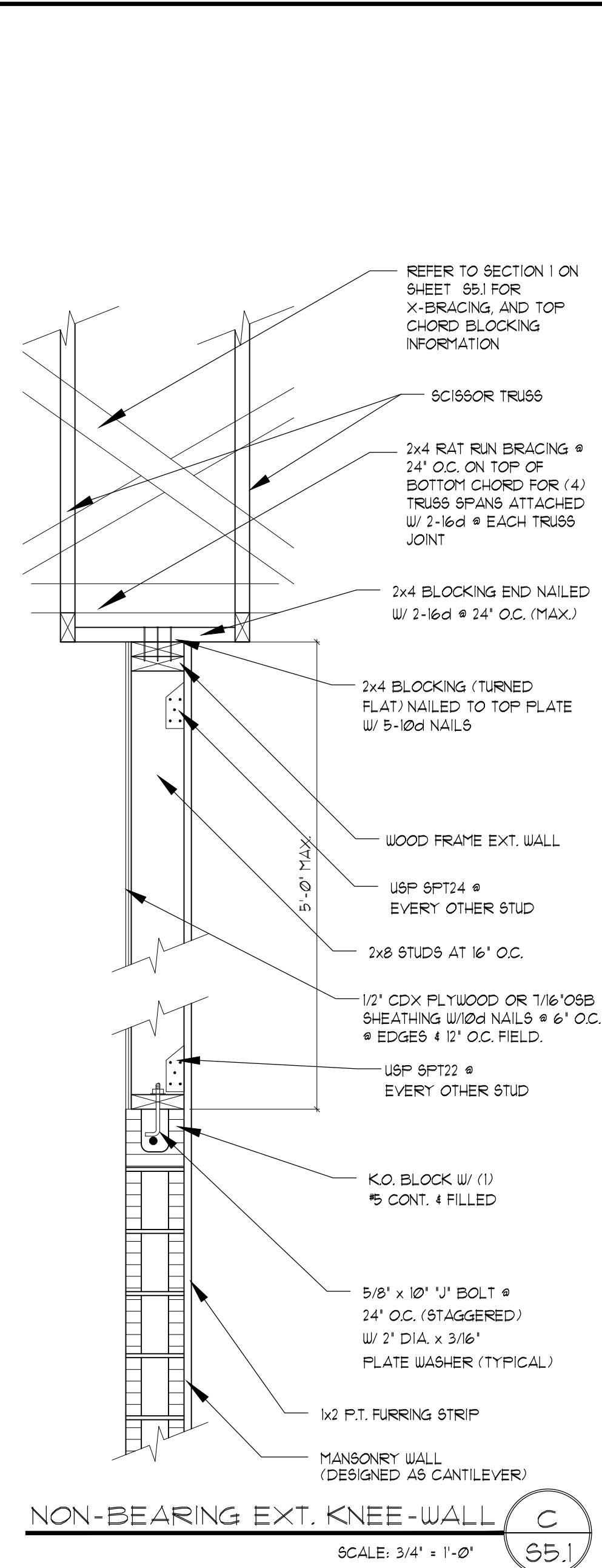
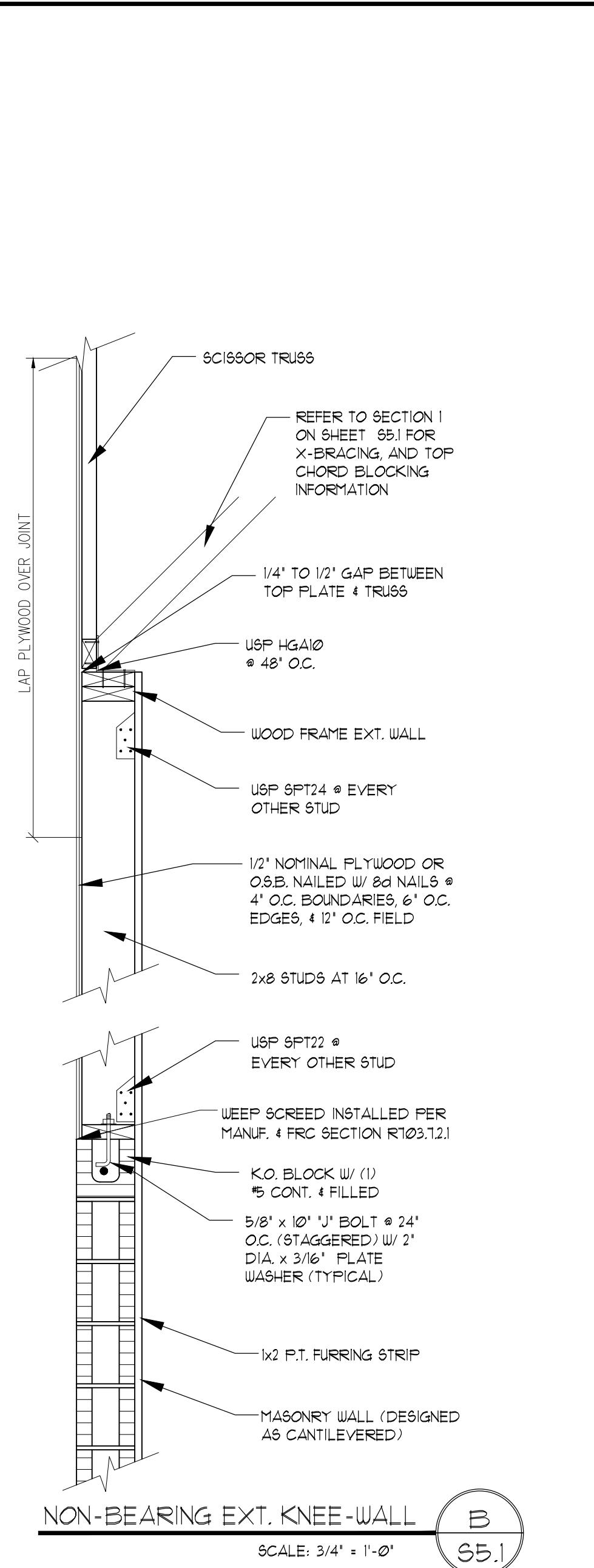
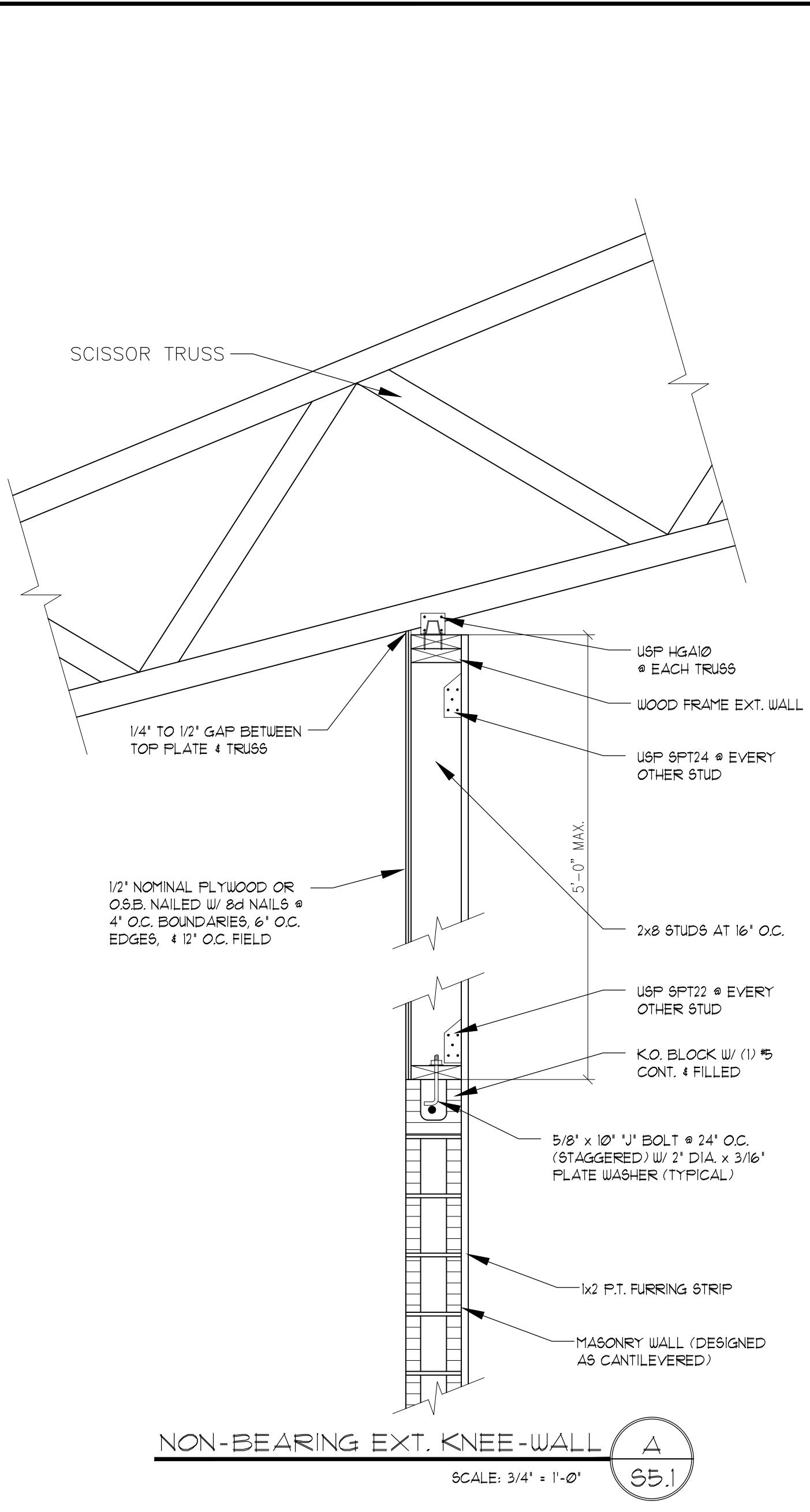
SECTION 2 (Scale: N.T.S. S5) **SECTION 3** (Scale: N.T.S. S5) **SECTION 4** (Scale: N.T.S. S5) **SECTION D** (Scale: N.T.S. S5) **SECTION E** (Scale: N.T.S. S5) **SECTION L** (Scale: N.T.S. S5) **SECTION M** (Scale: N.T.S. S5) **SECTION J** (Scale: N.T.S. S5) **SECTION K** (Scale: N.T.S. S5) **SECTION O** (Scale: N.T.S. S5) **SECTION P** (Scale: N.T.S. S5) **SECTION Q** (Scale: N.T.S. S5) **SECTION R** (Scale: N.T.S. S5) **SECTION S** (Scale: N.T.S. S5) **SECTION T** (Scale: N.T.S. S5) **SECTION U** (Scale: N.T.S. S5) **SECTION V** (Scale: N.T.S. S5) **SECTION W** (Scale: N.T.S. S5) **SECTION X** (Scale: N.T.S. S5) **SECTION Y** (Scale: N.T.S. S5) **SECTION Z** (Scale: N.T.S. S5)

REVISION:
DATE: 01.18.21 DESCRIPTION: 7TH EDITION 2020 CODE UPDATE
08.17.21 1.01 UPDATE PLANS PER 2021 BUILDING CODE SECTION R301 FOR 140 MPH WIND SPEED, GUST EXPOSURE = ENCLOSED (INTERNAL PRESSURE COEFFICIENT = 10.18) WIND ZONE
10.04.21 1.02 ADD STRUCTURAL SOFFIT DETAIL
VERSION NO. 1.02/ 10.04.21

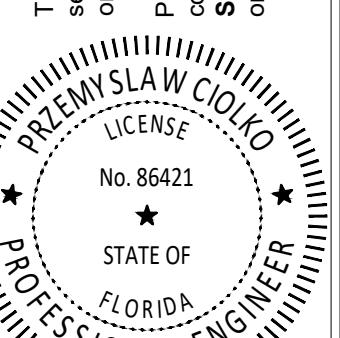
SHEET TITLE: TRUSS BRACING DETAILS AND NOTES
SHEET INFORMATION: JOB NO.: 420180 DATE ISSUED: 04.29.22 DRAWN BY: KL REVIEWED BY: KB

STANDARD SHEETS
(US CONNECTIONS - 140MPH, EXP. C)
2925 FLYING BLACKBIRD ROAD
15961-52-0043

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SHEET TITLE:
FRAMING CONNECTIONS
@ EXTERIOR WALLS

SHEET INFORMATION:
JOB NO.: 420180
DATE ISSUED: 04.29.22
DRAWN BY: KL
REVIEWED BY: KB



SHEET TITLE:
RETROFIT DETAILS & NOTES

SHEET INFORMATION:
JOB NO.: 420180
DATE ISSUED: 04.29.22
DRAWN BY: KL
REVIEWED BY: KB

SS

BUILDOUT @ OVER SIZE DOOR-WINDOW ROUGH OPENINGS
SCALE: N.T.S. CC SS

PROPER INSTALLATION
DOOR JAMB ATTACHED PER DOOR MANUF.
3/16" LONG X 3/16" Ø TAPCON INTO BLOCK @ SPACING PER MANUFACTURE
1" DETAIL

UNACCEPTABLE INSTALLATION
DO NOT DO THIS
#5 REBAR (TYP.)
STD. 90° HOOK (TYP.)
NOTCH WEB AT THE FIRST 2 COURSES
FILLED CELL PER FOUNDATION PLAN

FILLED CELL INSTALLATION
SCALE: N.T.S. H SS

ARCH DETAIL
SECTION A-A
SECTION J SS
SECTION B-B
SECTION K SS
SECTION L SS
SECTION @ SHED ROOF
SECTION @ ROOF EXTENSION
SECTION M SS
SECTION @ DEEP MONO FOUNDATION
SECTION AT DEEP MONO FOUNDATION
SECTION A 1
SECTION 1
SECTION SECTION

RETROFIT TRUSS DETAIL
USP RT16M UPLIFT CAPACITY = 1395 # FOR 1 STRAP
= 2790 # FOR 2 STRAPS
1-PLY PRE-ENGINEERED TRUSS
USP RT16M W(9) 10d x 1½" NAILS &
(4) ¼" x 1¼" TAPCONS
(IF TRUSS IS 2 PLY INSTALL USP
HTWM16 W(8) 10d x 1½" NAILS AND
(4) ¼" x 1½" WEDGE BOLTS (1)
STRAP = 1225 #, (2) STRAPS 2450#

RETROFIT WALL OVERHANG DETAIL (NTS)
FOR OVERHANGS BETWEEN 3/4" TO 1 1/2"
NOTE: FOR OVERHANGS LESS THAN 3/4" - NO REPAIR REQD.

RETROFIT FOR MISSING EMBEDDED STRAP
SEE TYP. 2-STORY WALL SECTION FOR ADDL. INFO
SCALE: N.T.S.

MONO TO STEMWALL FOOTING
SCALE: 3/4" = 1'-0"

PIPE VERTICAL THRU FND.
PIPE PERPENDICULAR TO FND.
TYP. FND. PENETRATIONS
SCALE: N.T.S.

STEM FOUNDATION
A/C CHASE 4" PVC SLEEVE THRU STEM WALL
SEE PLAN FOR FOUNDATION INFO

MONO FOUNDATION
A/C CHASE 4" PVC SLEEVE THRU FOOTING
(2) #5 REBAR
GRADE
REINF. SEE PLAN

SECTION AT DEEP MONO FOUNDATION
GRADE
16" MIN. (1-STY)
20" MIN. (2-STY)
32" MAX.
12" MIN.
W.W.M. AT PERIMETER WHERE THIS CONDITION OCCURS
(1) #5 BARS CONT.
TOP WITH MIN. 3" COVER
6'-0"
F.F.
HTT16 W(18) - 10d NAILS TO STUDS & (1) 5/8" DIA. ALL THREAD ROD EPOXIED W/ SIMPSON "SET-XP" EPOXY MIN. 12" EMBEDMENT & 1-3/4" MIN. EDGE DISTANCE (ALLOWABLE UPLIFT=2,556#)

RETROFIT FOR MISSING MSTAM STRAP
SCALE: 3/4" = 1'-0"

RETROFIT FILLED CELL DETAIL
SCALE: N.T.S.

NOTE: EPOXY TO BE SIMPSON SET-XP OR EQUIVALENT

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THESE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH 7TH EDITION (2020) FLORIDA RESIDENTIAL BUILDING CODE, SECTION R301 FOR 140 MPH WIND SPEED, 100 YR GUST EXPOSURE, AND ZONE 1 (0.10) WIND PRESSURE COEFFICIENT = 10.18) WIND ZONE. THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED AND SEALED. SIGNATURES ON THIS DRAWING INDICATE THE STRUCTURAL PORTION OF THIS DRAWING ONLY.

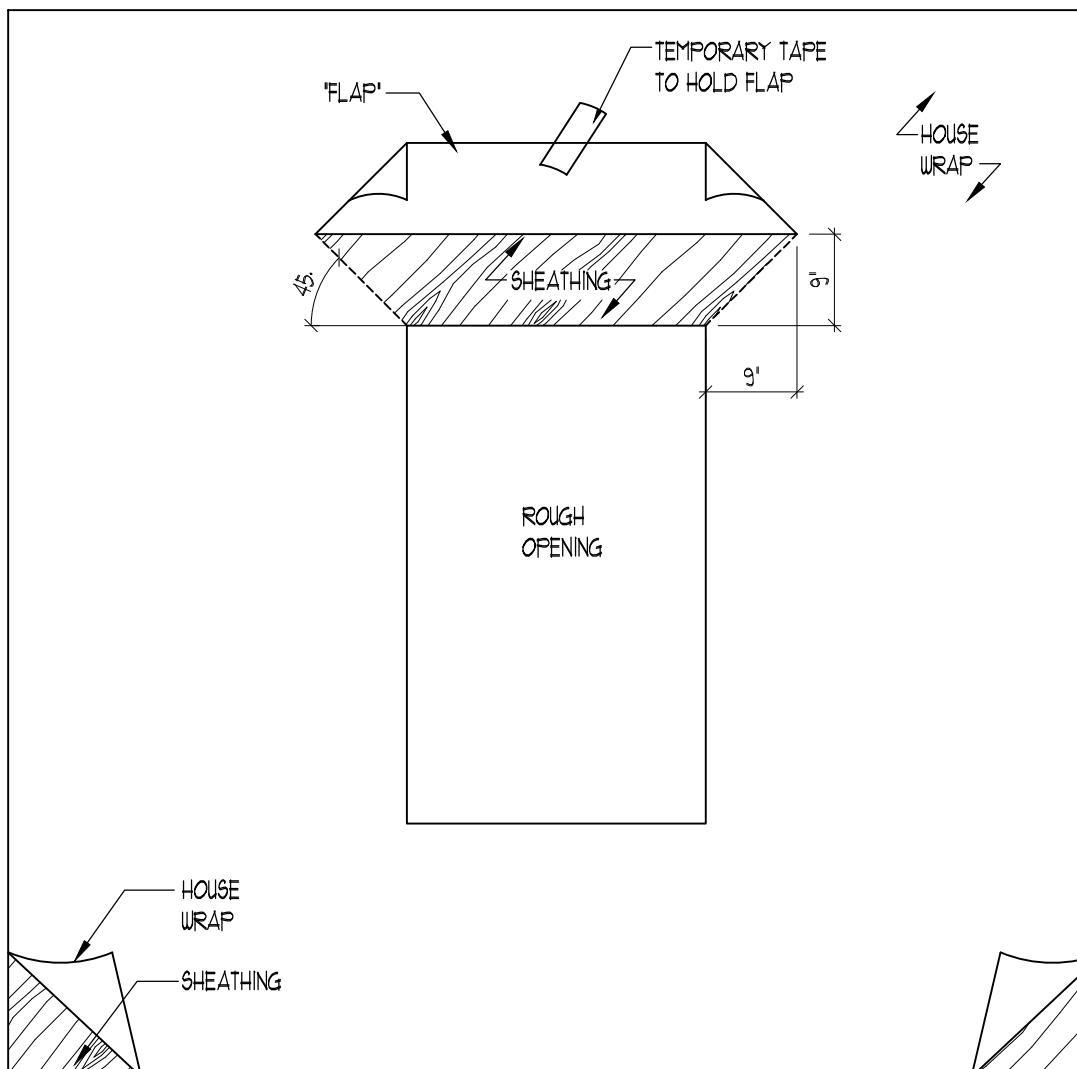
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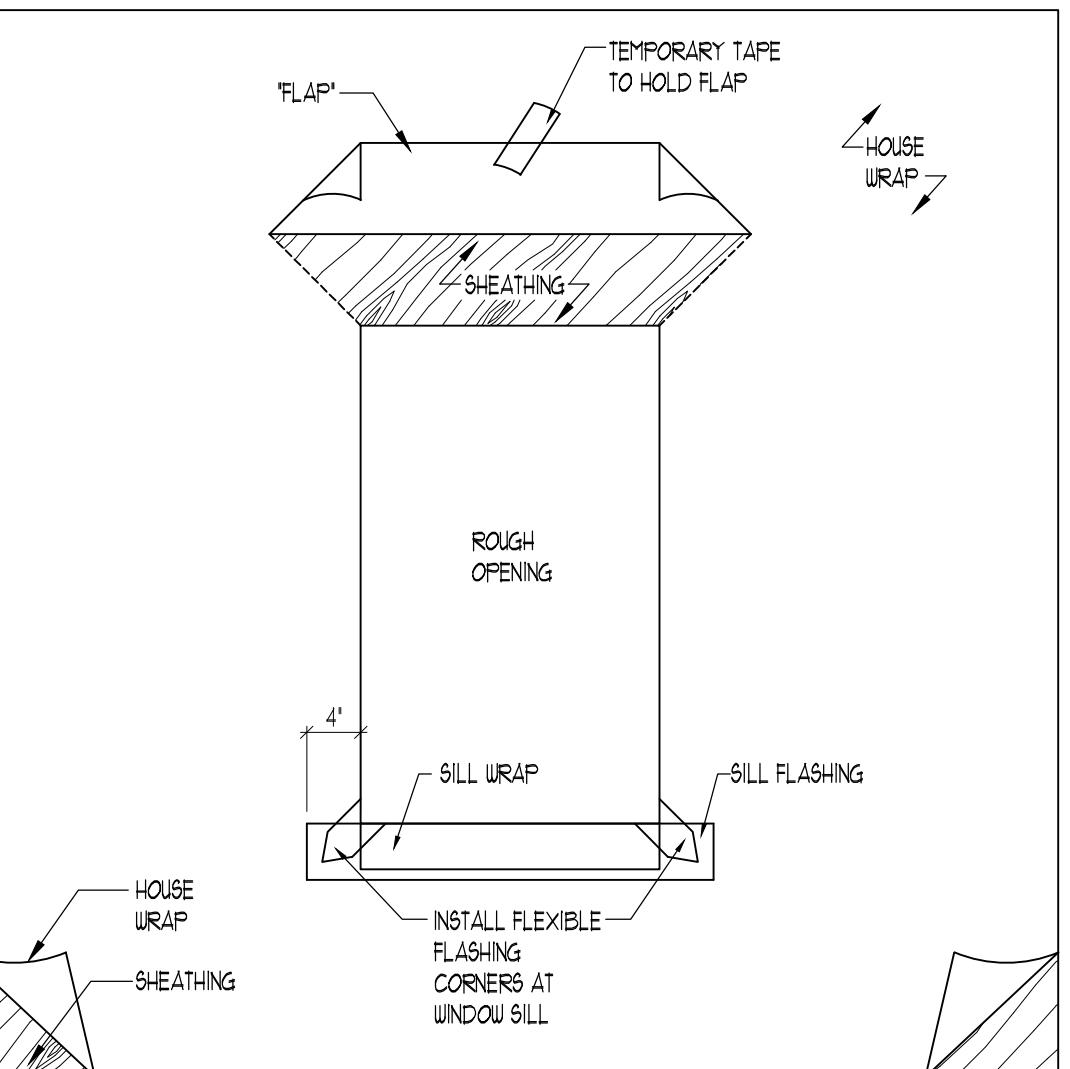
REVISION:
DATE: 01.18.21 01.01 7TH EDITION 2020 CODE UPDATE
08.17.21 1.01 UPDATE PLANS PER 2021 EDITION OF THE FLORIDA BUILDING CODE CATALOG
10.04.21 1.02 ADD STRUCTURAL SOFFIT DETAILS
VERSION NO. 1.02/ 10.04.21

STANDARD SHEETS
(USP CONNECTIONS - 140MPH, EXP. C)
2925 FLYING BLACKBIRD ROAD

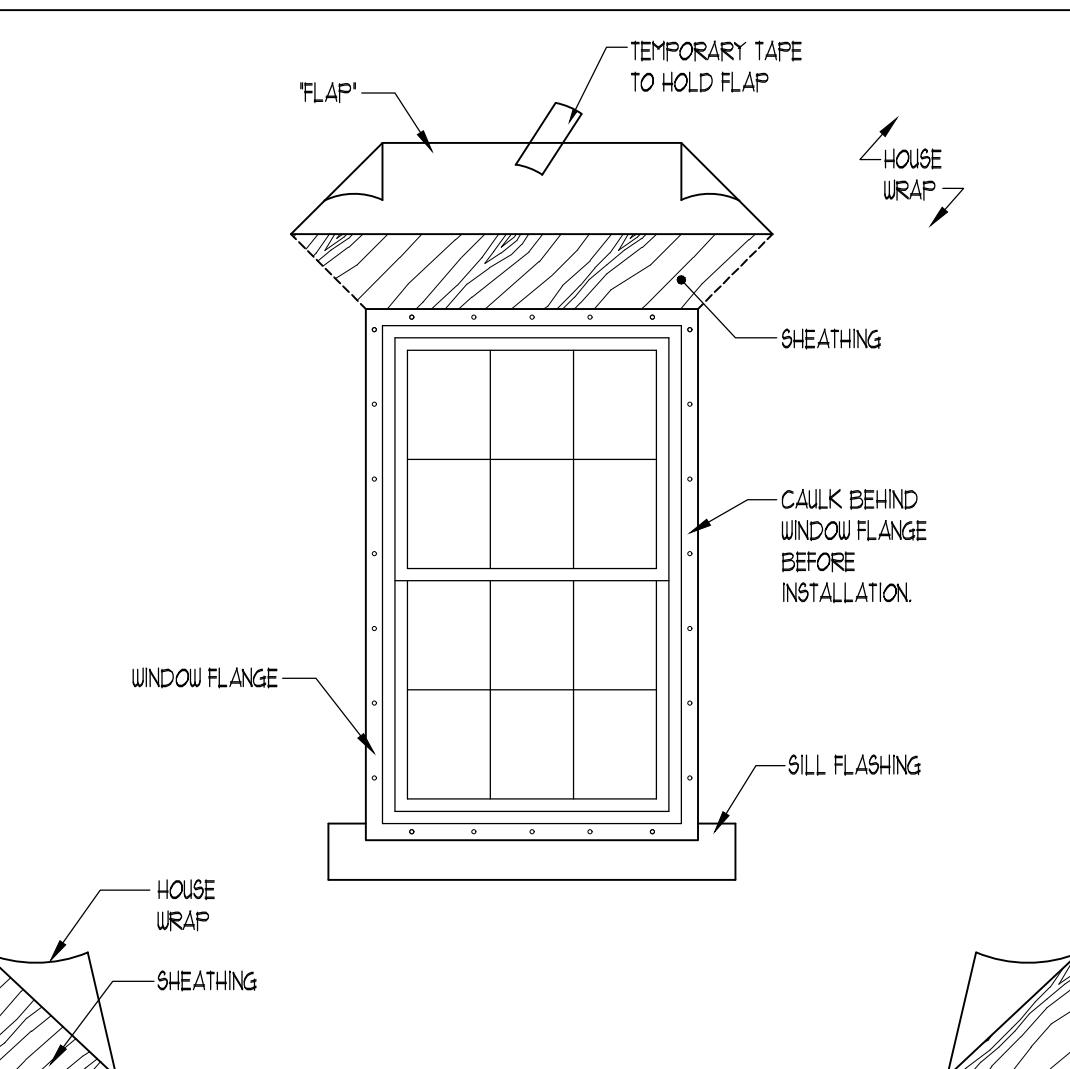
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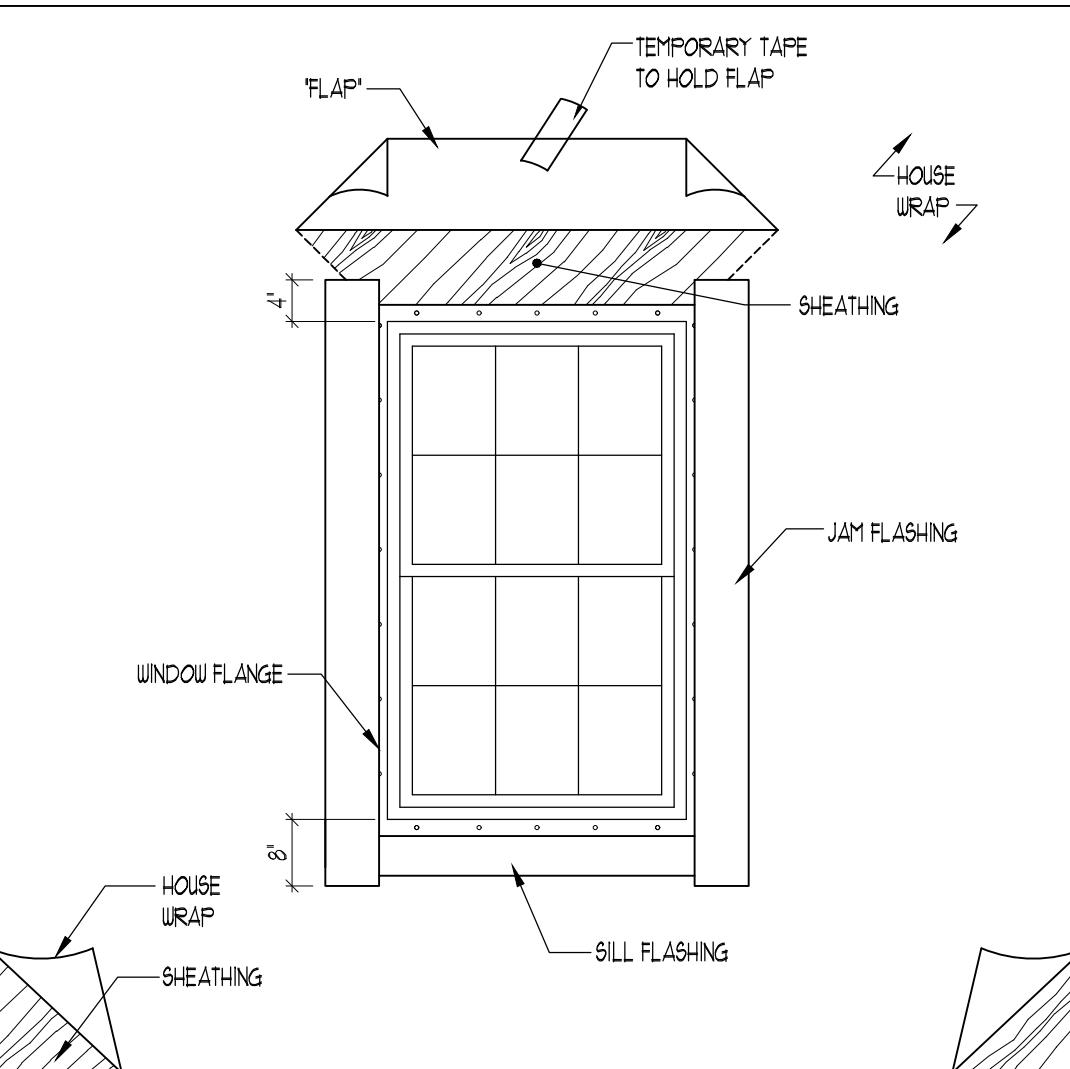
- 1 A. A WINDOW INSTALLER WILL CUT THE BUILDING PAPER AT A 45° ANGLE TO A POINT 9' UP AND 9' OUT FROM THE UPPER CORNERS OF THE ROUGH OPENING.
B. THIS WILL MAKE A 'FLAP' THAT WILL BE USED TO COVER THE HEAD FLASHING IN STEP 6.



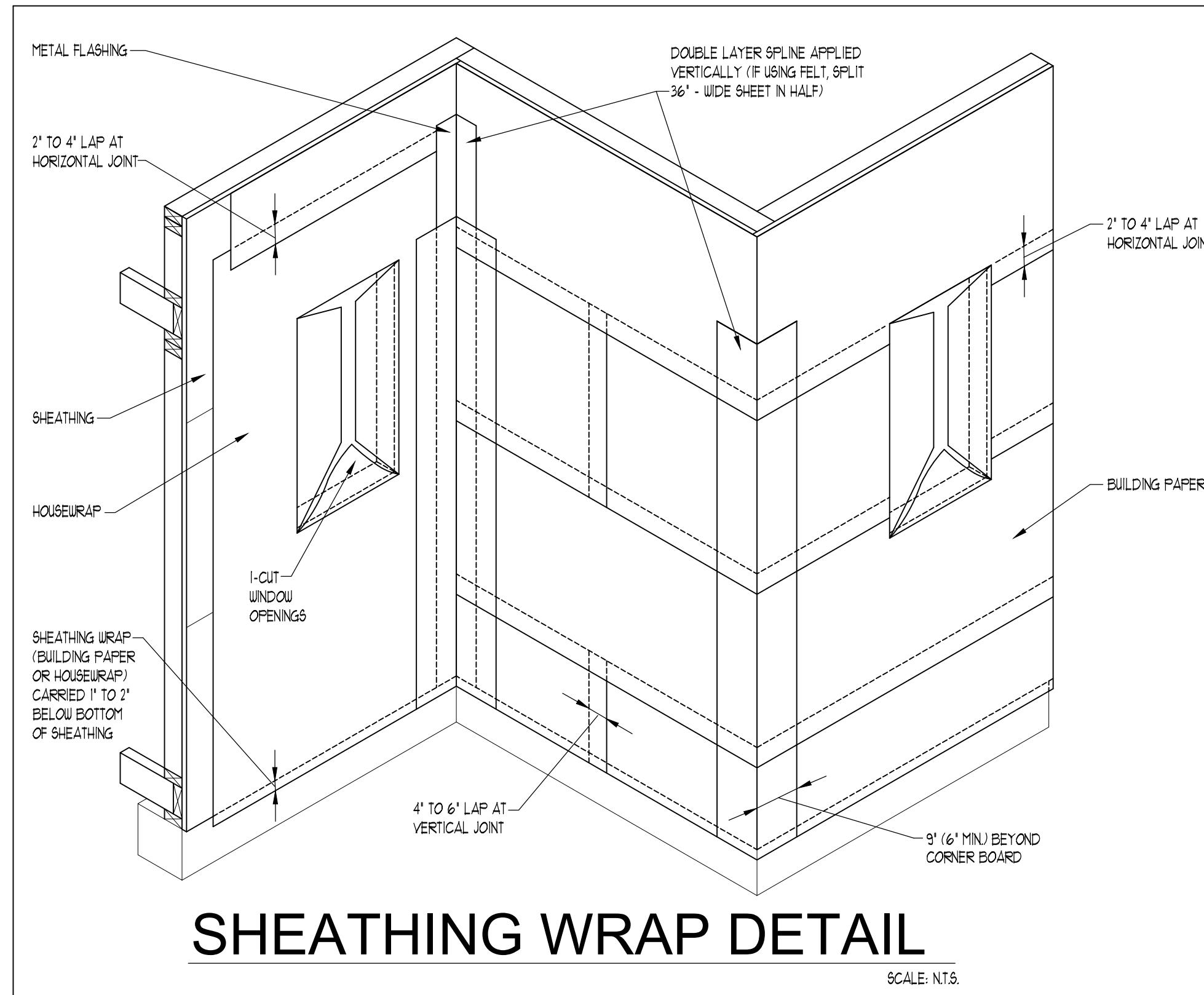
- 2 3-STEP PROCESS:
A. INSTALL SILL FLASHING (EXTENDING 4' BEYOND THE ROUGH OPENING ON EACH SIDE)
B. INSTALL CORNER SHIELD FLASHING (FASTEN WITH MOISTOP SEALANT OR EQUAL)
C. INSTALL SILL WRAP (MUST COMPLETELY COVER ROUGH OPENING SILL (INCLUDING CORNER SHIELDS))



- 3 A. APPLY A CONTINUOUS BEAD OF CAULKING ON THE BACK SIDE OF THE WINDOW FLANGE.
B. INSTALL THE WINDOW ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

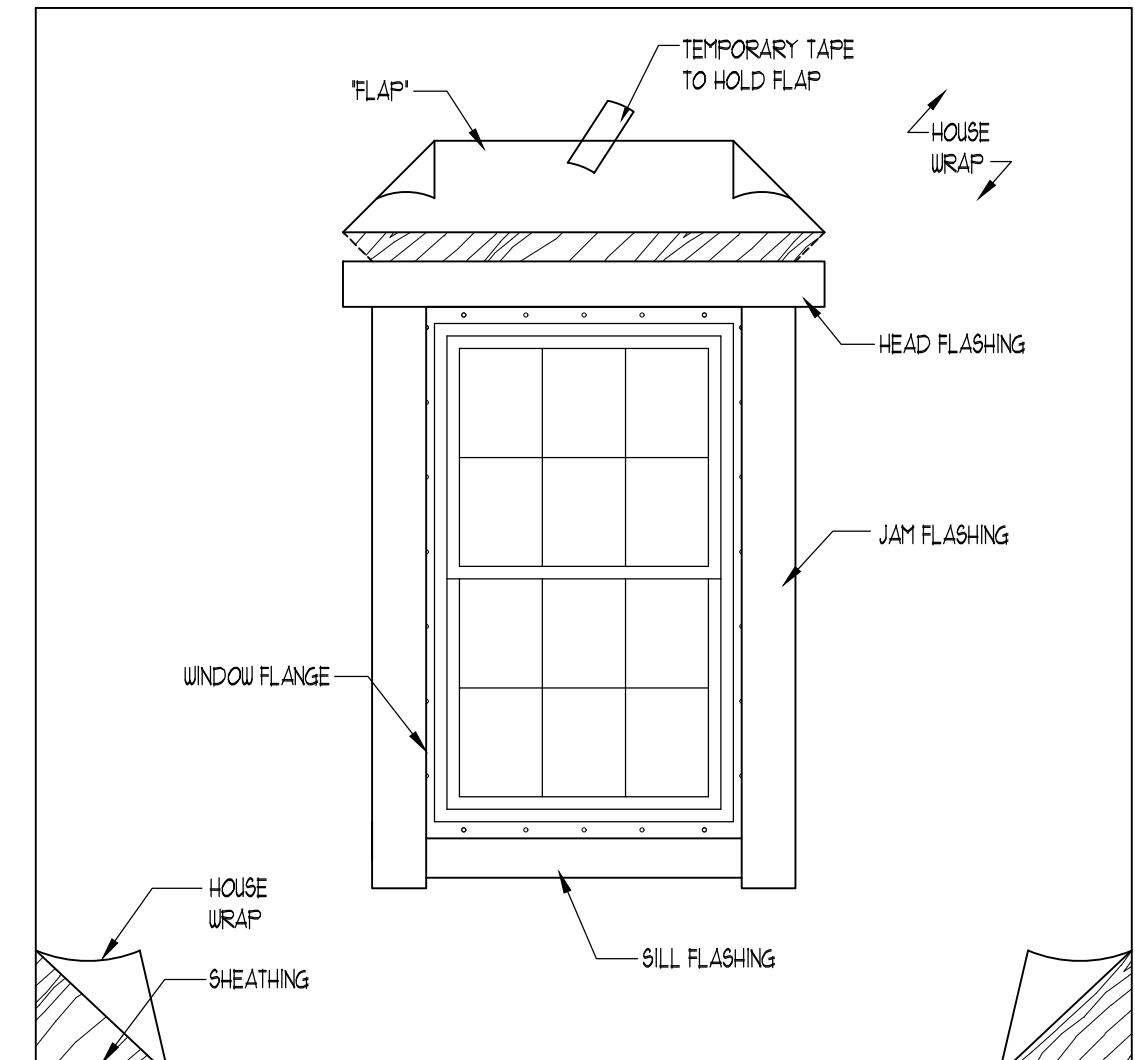


- 4 A. INSTALL JAMB FLASHING OVER THE WINDOW FLANGE ON EACH SIDE.
B. EXTEND THE JAMB FLASHING 4' ABOVE THE ROUGH OPENING AND 8' BELOW THE ROUGH OPENING.
C. INSTALL THE WINDOW ACCORDING TO THE MANUFACTURERS SPECIFICATIONS.

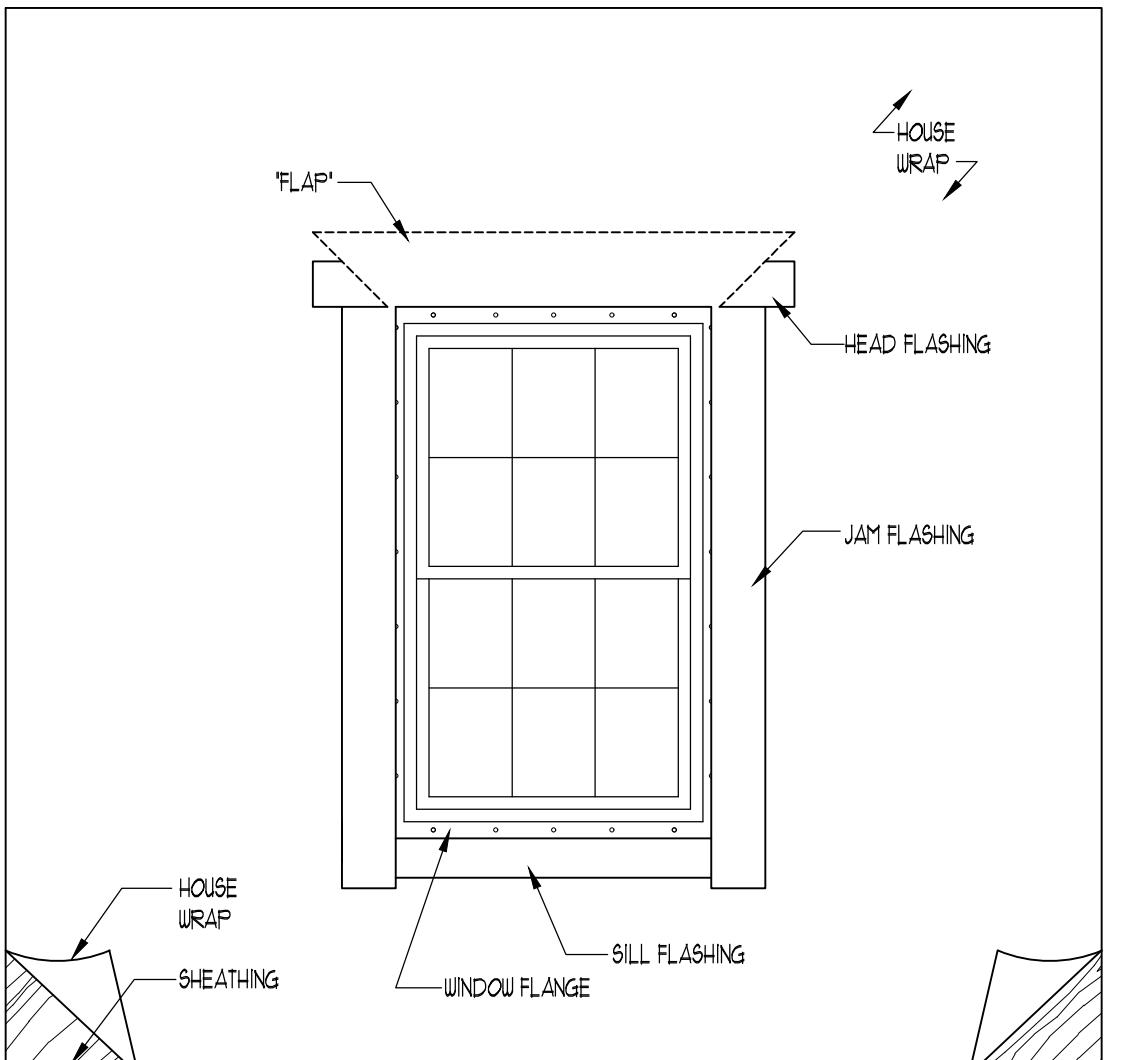


SHEATHING WRAP DETAIL

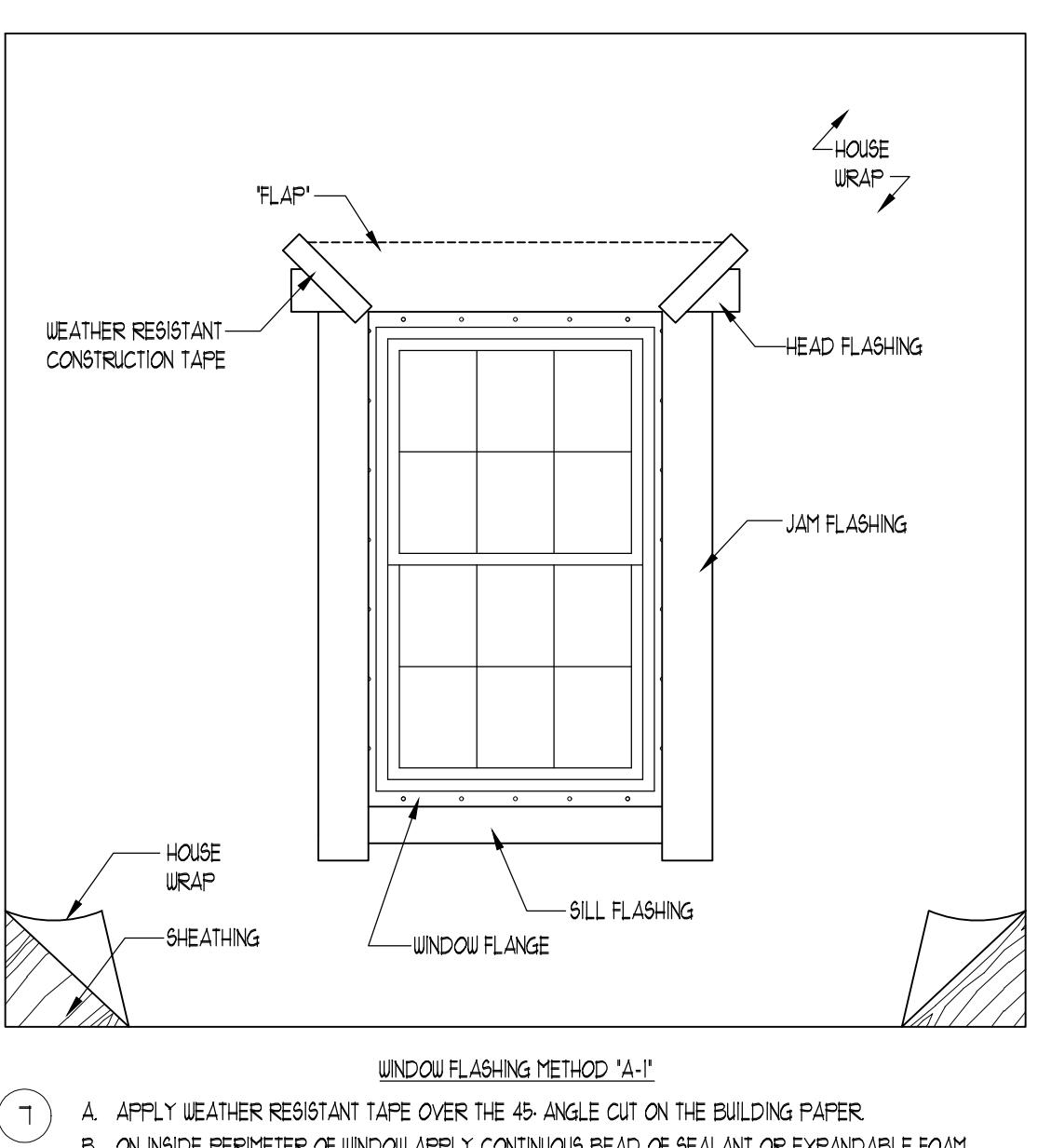
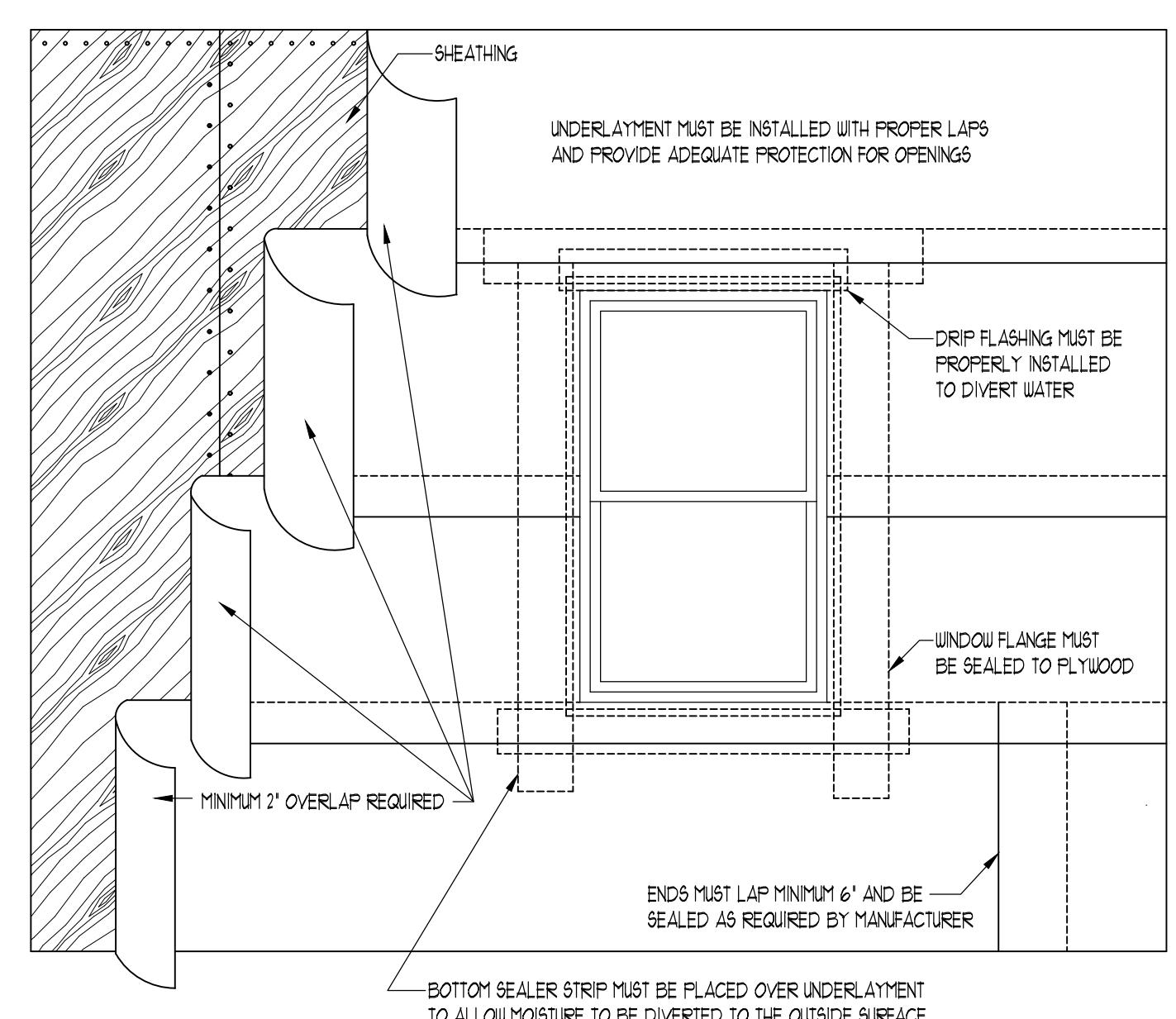
SCALE: N.T.S.



- 5 A. INSTALL HEAD FLASHING OVER THE WINDOW FLANGE.
B. EXTEND THE HEAD FLASHING 8' BEYOND THE ROUGH OPENING ON EACH SIDE.

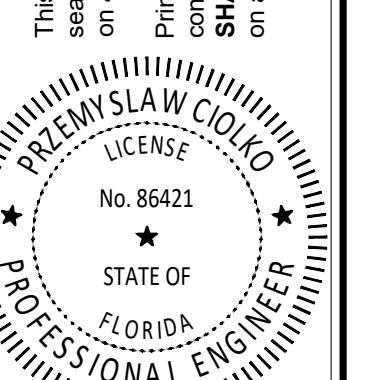


- 6 A. ALLOW THE BUILDING PAPER FLAP TO DRAPE OVER THE HEAD FLASHING.



- 7 A. APPLY WEATHER RESISTANT TAPE OVER THE 45° ANGLE CUT ON THE BUILDING PAPER.
B. ON INSIDE PERIMETER OF WINDOW APPLY CONTINUOUS BEAD OF SEALANT OR EXPANDABLE FOAM

This item has been digitally signed and
sealed by Przemyslaw Ciolko PE
on 4/29/2022 using a Digital Signature.
Printed copies of this document are not
considered signed and sealed and the
SHA authentication code must be verified
on any electronic copies.



SHEET TITLE:
WINDOW FLASHING
DETAILS & NOTES

SHEET INFORMATION:
JOB NO.: 420180
DATE ISSUED: 04.29.22
DRAWN BY: KL
REVIEWED BY: KB

WF-1

TO THE BEST OF THE ENGINEER'S KNOWLEDGE AND BELIEF, THESE STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH 7TH EDITION (2020) FLORIDA RESIDENTIAL BUILDING CODE, SECTION R301 FOR 140 MPH WIND SPEED, EXCEPT AS NOTED. GUST EXPOSURE = ENCLOSED (INTERNAL PRESSURE COEFFICIENT = ±0.18) WIND ZONE.

THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED AND SEALED. SIGNATURES ARE REQUIRED ON THE STRUCTURAL PORTION OF THIS DRAWING ONLY.

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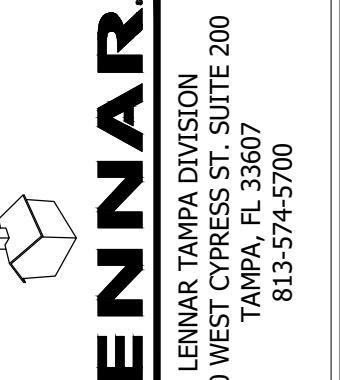
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REVISION:

DATE	DESCRIPTION
01.18.21	1.01 7TH EDITION 2020 CODE UPDATE
08.17.21	1.01 UPDATE PLANS PER 2021 EDITION OF THE 2020 RESIDENTIAL CATALOG
10.04.21	1.02 ADD STRUCTURAL SOFFIT DETAIL

VERSION NO. 1.02/ 10.04.21

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CA 25948



LENNAR

TAMPA DIVISION SUITE 200

4600 WEST CYPRESS ST, SUITE 200

TAMPA, FL 33607

813.574-5700

STANDARD SHEETS

(USP CONNECTIONS - 140MPH, EXP. C)

2925 FLYING BLACKBIRD ROAD

15961-52-0043

FLASHING REQUIREMENTS

FLASHING AND SEALANTS FOR EXTERIOR WINDOW AND DOOR OPENINGS SHALL COMPLY WITH SECTION R703.4.

R703.4 WATER-RESISTIVE BARRIER. ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D236 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS. NO. 15 ASPHALT FELT SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 6 INCHES (152 MM). OTHER MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE WATER-RESISTIVE BARRIER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE NO. 15 ASPHALT FELT OR OTHER APPROVED 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. THE WATER RESISTIVE BARRIER IS NOT REQUIRED FOR DETACHED ACCESSORY BUILDINGS.

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 612, OR OTHER APPROVED STANDARD AS APPROPRIATE FOR THE TYPE OF PRODUCT. APPROVED 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 FLASHING 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 MANUFACTURER'S INSTRUCTIONS. WHERE FLASHING INSTRUCTIONS OR DETAILS ARE NOT PROVIDED, PAN FLASHING SHALL BE INSTALLED AT THE SITE 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 OR FMA/AAMA/WDMA 400.
 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.

SELF-ADHERED FLASHING PRODUCTS DETAILS

TWO LAYERS OF FELT OR ONE LAYER OF HOUSE WRAP AND ONE LAYER OF FELT ARE REQUIRED BEHIND STUCCO. FBC R703.2

Detail Instructions

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

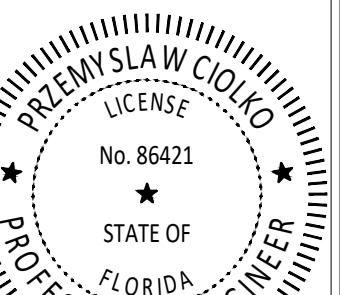
1. Install self-adhered flashing in order as shown by numbers
2. Install flashing and weather resistive barrier to form water shedding laps
3. Self-adhered flashing can be substituted for building paper
4. Split the release paper using the ripcord (Split release on demand, embedded in the adhesive layer) - 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

	SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK - SECTION A	WP02	SELF-ADHERED FLASHING CEMT. FINISH SILL/ POTSHELF/ CHIMNEY SHOULDER	WP03		
	SELF-ADHERED FLASHING FLANGED WINDOW	WP01	SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK	WP05	SELF-ADHERED FLASHING INSIDE CORNER	WP06
	SELF-ADHERED FLASHING HALF ROUND WINDOW	WP04	SELF-ADHERED FLASHING OUTSIDE CORNER	WP08	FOUNDATION WEEP SCREED	WP09
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

Note:
The building paper and metal lath must be installed over the top of the weep screed.

WEEP SCREED DETAIL
SCALE: NOT TO SCALE

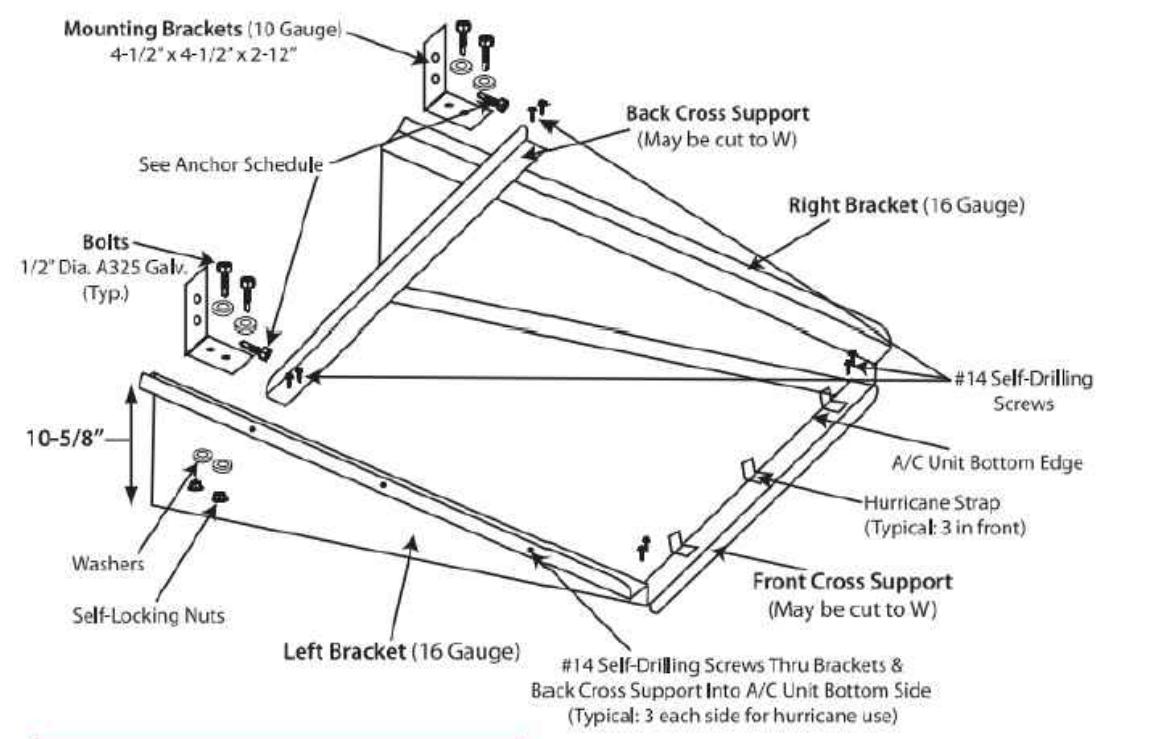
This item has been digitally signed and sealed by Przemyslaw Ciolko PE on 4/29/2022 using a digital Signature. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.



SHEET TITLE:
WATERPROOFING DETAILS

SHEET INFORMATION:
JOB NO.: 420180
DATE ISSUED: 04.29.22
DRAWN BY: KL
REVIEWED BY: KB

WP


INSTALLATION INFORMATION

Specific installation instructions are provided with each Hurricane Air Brace.
Engineered Seal Drawing available upon request
(additional fee will apply)

PRODUCT APPROVAL SPECIFICATION SHEET (2021)

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)	Test Pressures	Exp. Date
1. EXTERIOR DOORS					
A. SWINGING	ThermaTru	Fiber-Classic and Smooth-Star (NON-IMPACT)	FL20461.1	+67.0/-67.0 psf	12/31/2021
	ThermaTru	Fiber-Classic and Smooth-Star (IMPACT)	FL20468	+67.0/-67.0 psf	12/31/2021
	ThermaTru	Fiber-Classic and Smooth-Star (IMPACT)	FL20470	+80.0/-80.0 psf	12/31/2021
B. SLIDING	MI Windows and Doors	Series 420	FL15332.1 - FL15332.5	+40.0/-40.0 psf	12/31/2024
	PGT	Series 5570	FL251.9		4/14/2021
C. SECTIONAL	Wayne-Dalton	Series 8000/8100/8200 #1105 (8X7)	FL8248.3	+31.0/-35.0	12/31/2023
	Wayne-Dalton	Series 8000/8100/8200 #1123 (16X7)	FL8248.10	+30.0/-33.5	12/31/2023
D. METAL LOUVERED DRS	Curries Division of AADG, Inc	607, 707, 727, 747, and 847 Single & Pairs of Doors	FL11537.1	N/A (see inst sht)	12/31/2025
2. WINDOWS					
A. SINGLE HUNG	MI Windows and Doors	Series 185	FL17499.2	+60.0/-60.0 psf	10/8/2023
	PGT	Series 5500	FL239.2	N/A	7/30/2025
B. HORIZONTAL SLIDER	MI Windows and Doors	Series 188	FL15351.1	+55.0/-55.0 psf	2/16/2024
C. FIXED	MI Windows and Doors	Series 185	FL15349.1	+60.0/-60.0 psf	4/3/2023
	PGT	Series 5520	FL243.5	N/A	4/30/2025
D. MULLION	MI Windows and Doors	Series 5764	FL15353.2	N/A	12/31/2024
	PGT	Series 5500	FL261.1	N/A	5/26/2026
E. OTHER					
3. PANEL WALL					
A. SIDING	James Hardie Building Prod.	Ceplank Lap Siding and HardiePlank Lap Siding	FL13192.1 - FL13192.2	N/A	12/31/2023
B. SOFFITS	Alside	Solid and Vented Soffit	FL15272.1 - FL15272.2	+75.0/-75.0 psf	12/31/2021
C. OTHER					
4. ROOFING PRODUCTS					
A. ASPHALT SHINGLES	GAF	3 Tab, Dimensional	FL10124.1	N/A	12/16/2022
B. UNDERLAYMENTS	Tamko	15lb Felt Underlayment	FL12328	N/A	10/18/2021
C. ROOFING FASTENERS	NOT USED				
D. ROOF VENTILATORS	Thompson Arch Metal Comp.	Off Ridge Vents	FL16918.1 - FL16918.4	N/A	9/9/2026
	Florida Metal Products, Inc	Vent RV10	FL21580.3	N/A	12/31/2024
	Lomanco, Inc	DA-4 Exahust Vent	FL17202.1	+97.5/-97.5 psf	12/10/2025
E. ROOFING TILES	Boral Tile	Villa 900	FL7849.27 - FL7849.28	N/A	12/31/2025
	Boral Tile	Saxony 900	FL7849.16 - FL7849.20	N/A	12/31/2025
F. METAL ROOF	Gulf Coast Supply & Manufacturing, LL	0.032" Aluminum GulfLok 16" wide roof panel	FL11651.2 R3	N/A	4/12/2024
5. SHUTTERS					
A. STORM PANELS	Global Protection Products	Galvanized Steel Storm Panels	FL15076.1 - FL15076.2	N/A	12/31/2021
	All American Shutters & Glass	Galvanized Steel Storm Panels	FL17869.1	N/A	12/31/2021
6. STRUCTURAL					
COMPONENTS					
A. WOOD CONNECTORS/ ANCHORS	USP Structural Conn. Simpson Strong-Tie	see chart			
B. TRUSS PLATES	ITW Building Components	Alpine Truss Plates	FL1999.1 - FL1999.4	N/A	12/31/2024
	MiTek Industries, Inc.	Truss Plates	FL2197.1 - FL2197.5	N/A	6/30/2021
C. ENGINEERED LUMBER	Weyerhaeuser	Rim Board, LVL, PSL, LSL	FL6527.1 - FL6527.5	N/A	3/31/2021
D. MATERIAL	Cast-Crete Corp.	High Strength Concrete Lintels	FL158.1	N/A	5/21/2022
	Commercial Concrete Products, Inc	High Strength Concrete Lintels	FL1774	N/A	5/25/2024

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2)

APPLICANT SIGNATURE DATE

Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail									
Type	Code Version	Manufacturer	Entity or Manufacturer & License	Contact	Date Validated	Date Submitted	Date Pending	IBC Approval	Date Approved
Exhibit 15328.8	2020	Therma-Tru Corporation	Category: Exterior Doors Subcategory: General Exterior Door Assemblies Compliance Method: Evaluation Report from a Registered Architect or a Licensed Florida Professional Engineer	Steve Johnson (800) 543-7123 steve.johnson@thermatru.com	10/15/2020	10/15/2020	10/15/2020	10/15/2020	Approved
FL15328.8 Products									
Seq #	Product Model Number or Name	Product Description	Quality Assurance Contract Expiration Date	Approved for Use In HOME	Approved for Use Outside HOME	Impact Required	Impact Pressure		
1	Dress Metal Roofing Systems	DMC 100% DMC 19C55, DMC 19C56, DMC 19C57	12/31/2023	Yes	No	N/A	+100/-100		
Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail									
Type	Code Version	Manufacturer	Entity or Manufacturer & License	Contact	Date Validated	Date Submitted	Date Pending	IBC Approval	Date Approved
Exhibit 15328.9	2020	Shire View Products, Inc.	Category: Structural Components Description: Shire View products are produced as a result of new technology. Compliance Method: Evaluation Report from a Registered Architect or a Licensed Florida Professional Engineer	Michael Graham (377) 441-3330 michael.graham@shireview.com	10/15/2020	10/15/2020	10/15/2020	10/15/2020	Approved
FL15328.9 Products									
Seq #	Product Model Number or Name	Product Description	Quality Assurance Contract Expiration Date	Approved for Use In HOME	Approved for Use Outside HOME	Impact Required	Impact Pressure		
1	ShireView Model #1546-011	Door Function Panel and Ventilation Panel	12/31/2020	Yes	Yes	N/A	+100/-100		
2	ShireView Model #1546-011	Door Function Panel and Ventilation Panel	12/31/2020	Yes	Yes	N/A	+100/-100		
3	ShireView Model #1546-021	Insulated Floor Vent	12/31/2020	Yes	Yes	N/A	+100/-100		
4	ShireView Model #1546-021	Insulated Wall Insulated Floor Vent	12/31/2020	Yes	Yes	N/A	+100/-100		
5	ShireView Model #1546-021	Wood Wall Insulated Floor Vent	12/31/2020	Yes	Yes	N/A	+100/-100		
6	ShireView Model #1546-021	14.5in. Round Edge Floor Vent	12/31/2020	Yes	Yes	N/A	+100/-100		
Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail									
Type	Code Version	Manufacturer	Entity or Manufacturer & License	Contact	Date Validated	Date Submitted	Date Pending	IBC Approval	Date Approved
Exhibit 15328.10	2020	Therma-Tru Corporation	Category: Exterior Doors Subcategory: General Exterior Door Assemblies Compliance Method: Evaluation Report from a Registered Architect or a Licensed Florida Professional Engineer	Steve Johnson (800) 543-7123 steve.johnson@thermatru.com	10/15/2020	10/15/2020	10/15/2020	10/15/2020	Approved
FL15328.10 Products									
Seq #	Product Model Number or Name	Product Description	Quality Assurance Contract Expiration Date	Approved for Use In HOME	Approved for Use Outside HOME	Impact Required	Impact Pressure		
1	Therma-Tru Fiber-Classic and Smooth-Star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Single Door	12/31/2021	No	Yes	Yes	N/A		
2	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Single Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
3	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Double Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
4	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Single Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
5	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Double Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
6	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Single Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
7	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Double Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
8	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Single Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
9	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Double Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
10	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Single Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
11	Therma-Tru Fiber-Classic and Smooth-star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Double Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
12	Therma-Tru Open-Classic and Smooth-Star	Non-AS2700 Acoust. Impact/Opac. Composite Edge Fiberglass Double Door with AS2700 configurations	12/31/2021	No	Yes	Yes	N/A		
Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail									
Type	Code Version	Manufacturer	Entity or Manufacturer & License	Contact	Date Validated	Date Submitted	Date Pending	IBC Approval	Date Approved
Exhibit 15328.11	2020	Weyerhaeuser	Category: Exterior Doors Subcategory: Rim Board, LVL, PSL, LSL	Douglas K. Johnson (800) 843-7623 douglas.johnson@weyerhaeuser.com	10/15/2020	10/15/2020	10/15/2020	10/15/2020	Approved
FL15328.11 Products									
Seq #	Product Model Number or Name	Product Description	Quality Assurance Contract Expiration Date	Approved for Use In HOME	Approved for Use Outside HOME	Impact Required	Impact Pressure		
1	SEIRIS K20 ALUMINUM SGD	SEIRIS K20 ALUMINUM SGD (AS2700 REINFORCED)	12/31/2021	No	Yes	Yes	N/A		
2	SEIRIS K20 ALUMINUM SGD	SEIRIS K20 ALUMINUM SGD (AS2700)	12/31/2021	No	Yes	Yes	N/A		
3	SEIRIS K20 ALUMINUM SGD REINFORCED	SEIRIS K20 ALUMINUM SGD REINFORCED (AS2700)	12/31/2021	No	Yes	Yes	N/A		
4	SEIRIS K20 ALUMINUM SGD REINFORCED	SEIRIS K20 ALUMINUM SGD REINFORCED (XX)	12/31/2021	No	Yes	Yes	N/A		
5	SEIRIS K20 ALUMINUM SGD REINFORCED XXX	SEIRIS K20 ALUMINUM SGD REINFORCED XXX (AS2700)	12/31/2021	No	Yes	Yes	N/A		
Florida Department of Business & Professional Regulation Building Codes and Standards Product Approval Application Detail									
Type	Code Version	Manufacturer	Entity or Manufacturer & License	Contact	Date Validated	Date Submitted	Date Pending	IBC Approval	Date Approved
Exhibit 15328.12	2020	Jeffrey P. Anderson, P.E.	Category: Exterior Doors Subcategory: General Exterior Door Assemblies Compliance Method: Evaluation Report from a Registered Architect or a Licensed Florida Professional Engineer	Jeffrey P. Anderson, P.E. (904) 871-5000 jeff.p.anderson@lennar.com	10/15				

LENINAR

This is a non engineered sheet based on product approval information located on the State of Florida's Product Approval web site.

סְכִינָה, יְהוָה - יְהוָה, סְכִינָה

PLAN NAME
NO. - 1

SIMPSON Simpson Strong-Tie 2020 FBC Approved Products

Strong-Tie® For direct link to all FBC approvals refer to: [CLICK HERE](#)

Updated 12/30/2020
For additional information regarding Florida's Statewide Product Approval System and Miami-Dade County Notice of Acceptance (NOA), [CLICK HERE](#)

FL#2355-R7

Seq # Product Model Number or Name

Product Description
1 Titen Stainless Steel Concrete & Masonry Screw (TTN-SS)
2 APV21, APV44, APV214, APV44, APV45
3 APV34R, APV34R, APV34R, APV34R, APV34R, APV34R, APV34R
4 APVDT24, APVDT24, APVDT24, APVDT24, APVDT24, APVDT24, APVDT24, APVDT24
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FL#2559-R6

Seq # Product Model Number or Name

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5 SD91125SD, SD92125S, SDCF22104, SDCF22114, SDCF22134, SDCF22164, SDCF22168, SDCF22168
6 SDH27400, SDH27614, SDH31400, SDH31614
7 SD95111SD, SD95114SD, SD951200, SD95121, SD951300, SD95131, SD95134, SD95135, SD95136
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FL#10007-R8

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Product Description
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