GENERAL STRUCTURAL NOTES

THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES THE DRAWINGS AND EXISTING CONDITION TO THE ENGINEER PRIOR TO COMMENCING WORK.

DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT AS OTHERWISE INDICATED. ADAPT REQUIREMENTS OF DETAILS, SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

DIMENSIONS INDICATED ON THE DRAWINGS IN REFERENCE TO EXISTING CONDITIONS ARE THE BEST AVAILABLE DATE OBTAINABLE, BUT ARE NOT GUARANTEED. BEFORE PROCEEDING WITH ANY WORK DEPENDENT ON THE DATA INVOLVED, THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS, GRADES, LINES, LEVELS, OR OTHER CONDITIONS OF LIMITATIONS AT THE SITE TO AVOID CONSTRUCTION ERRORS. IF ANY WORK IS PERFORMED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS PRIOR TO ADEQUATE VERIFICATION OF APPLICABLE DATA, AT RESULTANT EXTRA COST FOR ADJUSTMENT OR WORK AS REQUIRED TO CONFORM TO EXISTING LIMITATIONS, SHALL BE ASSUMED BY THE CONTRACTOR WITHOUT REIMBURSEMENT OR COMPENSATION BY THE OWNER.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

CODE REQUIREMENTS:

THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE **2020 FLORIDA BUILDING CODE 7TH EDITION**. OTHER CODES IMPLEMENTED FOR DESIGN INCLUDE: ASCE7-16, ACI 315/318/530, NDS 2018, APA, A.I.S.C., ANSI. FOLLOW ALL APPLICABLE PROVISIONS OF THE FLORIDA BUILDING CODE AND OTHER RELATED CODES FOR ALL PHASES OF CONSTRUCTION.

TEMPORARY CONDITIONS:

THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION ONLY.

FOUNDATIONS:

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL. NO GEOTECHNICAL REPORTS AND/OR IN-SITU SOIL DATA WAS GIVEN TO THE STRUCTURAL ENGINEER PRIOR TO DESIGN. THE BEARING CAPACITY USED FOR DESIGN IS BASED ON ALLOWABLE LOADS FROM THE 2020 FLORIDA BUILDING CODE FOR SANDY SOILS WITH NO CLAY, ORGANIC MATERIAL, OR OTHER DELETERIOUS MATERIALS THAT WOULD AFFECT DESIGN BEARING PRESSURE AND THE PERFORMANCE OF THE FOUNDATIONS.

BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION,AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

CONCRETE:

REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

f'c	ABS W/C	MIN CEMENT	SLUMP	USE
2,500 PSI	0.58	470 LBS	5" +/- 1	ALL SLABS, MONOLITHIC FOOTINGS, SPREAD FOOTINGS
3,000 PSI	0.58	470 LBS	5" +/- 1	TIEBEAMS, COLUMNS, WALLS, ELEVATED SLABS

CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE. WHERE INDICATED OR REQUIRED, SLOPE CONCRETE SLABS TO DRAINS SHOWN ON PLUMBING AND/OR ARCHITECTURAL DRAWINGS. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS.

WOOD:

SAWN LUMBER SHALL BE SOUTHERN PINE #2 WITH THE ALLOWABLE FIBER STRESSES PER THE AWC NATIONAL DESIGN SPECIFICATION. ALL MANUFACTURED LUMBER SHALL BE 2.0E GLUED LAMINATED GEORGIA PACIFIC (OR EQUIV.) AND INSTALLED ACCORDING TO MANUFACTURES RECOMMENDATIONS. ALL HEADERS/BEAMS SHOULD BEAR FULLY ON POSTS AND/OR MULTI STUD GROUPS UNLESS NOTED OTHERWISE ON PLANS. CONTACT ENGINEER OF RECORD IF HEADER/BEAMS SIZE IS NOT SPECIFIED.

FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY OR USP (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL CONNECTORS SHALL BE GALVANIZED. UNLESS SHOWN OTHERWISE, INSTALL MAXIMUM SIZE AND NUMBER OF FASTENERS SHOWN IN LATEST SIMPSON CATALOG

ALL FRAMING NAILS SHALL BE COMMON NAILS AND SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS. MINIMUM NAILING REQ. NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.9.1 OF THE FBC. INSTALL 10d NAILS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DETAILS. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.1. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.

ALL ANCHOR BOLTS AND THREADED ANCHOR RODS SHALL BE IN ACCORDANCE WITH ASTM A307, GRADE A, OR ASTM F1554, GRADE 36. ANCHOR ADHESIVES SHALL BE EITHER SET (EPOXY-TIE) OR AT (ARCYLIC-TIE) BY SIMPSON STRONG-TIE AND INSTALLED ACCORDING TO THE MANUFACTURES INSTRUCTIONS. ALL DRILLED ANCHOR HOLES SHALL BE CLEANED OF ALL DEBRIS AND BRUSHED OUT PRIOR TO INSTALLATION OF ANCHOR ADHESIVE.

ALL WOOD MEMBERS EXPOSED TO EXTERIOR CONCRETE, MASONRY, WEATHER, OR EARTH SHALL BE PRESSURE TREATED LUMBER. ALL NAILS DIRECTLY EXPOSED TO WEATHER SHALL BE GALVANIZED. FASTENER REQUIREMENTS IN PRESSURE TREATED LUMBER ARE AS FOLLOWS:
ACZA PRESERVATIVE: STANDARD CARBON STEEL.
ACQ & MCQ PRESERVATIVE: HOT DIPPED GALVANIZED.
SODIUM BORATE: STAINLESS STEEL CONNECTORS & FASTENERS (NOT REQ. FOR SILL PLATES OVER CONCR.& VAPOR BARRIER NOT DIRECTLY EXPOSED TO EARTH OR WEATHER)

REINFORCING STEEL:

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP_66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT_DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):
FOOTINGS 3" BOTTOM AND SIDES, 2" TOP
SLABS 3/4"
COLUMNS 1-1/2" TO TIES, 2" TOP
BEAMS 1-1/2" TO STIRRUPS
WALLS 1-1/2"

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS. SHOW ALL SPLICES ON SHOP DRAWINGS. SPLICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF (2) #5 BARS ALL FOUR SIDES AND DIAGONALLY; EXTEND THESE BARS A LAP DISTANCE OR A MINIMUM OF 24" PAST THE OPENING OR HOOK BARS IF DISCONTINUOUS.

DOWEL ALL WALLS AND COLUMNS TO FOOTINGS WITH BAR SIZE AND SPACING TO MATCH VERTICAL REINFORCING UNLESS OTHERWISE SHOWN.

DESIGN CRITERIA:

DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2020 FLORIDA BUILDING CODE 7th EDITION. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS REDUCED PER THE 2020 FBC:

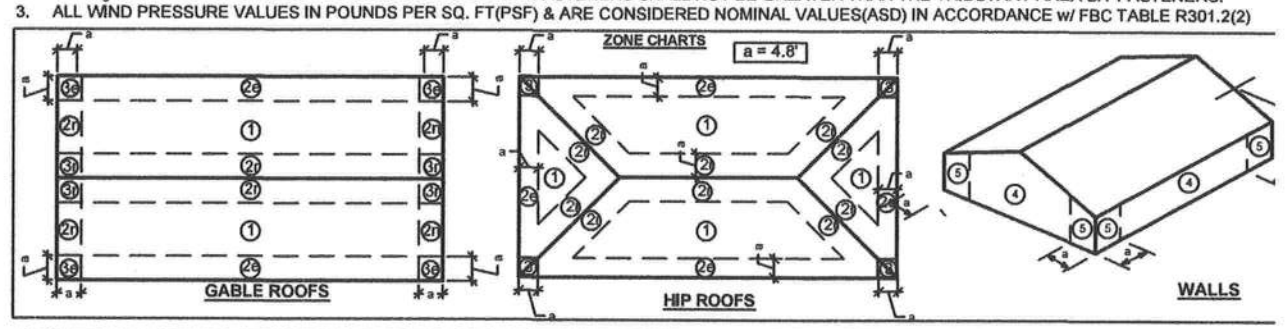
	LIVE LOAD	DEAD LOAD	DEFLECTION
ROOF:	20 PSF	15 PSF	L/240 - L/180
FLOORS:	40 PSF	10 PSF	L/360 - L/240
DECKS:	60 PSF	10 PSF	L/360 - L/240
WALLS:	PER C&C BELOW	PER ASCE7-10 TBLE. C3-1	L/240 - BRITTLE L/180 - FLEXIBLE

ULTIMATE WIND SPEED	130 MPH	PER ASCE 7-16
NOMINAL WIND SPEED:	101 MPH	PER FBC R301.2.1.3
EXPOSURE	C	PER ASCE 7-16
IMPORTANCE FACTOR	1.0	CATEGORY II
INTERNAL PRESSURE COEFF +/- 0.18	ENCLOSED (PROTECTED OPENINGS)	
COMPONENTS & CLADDING PRESSURES	PER TABLE & CHARTS ON THIS PAGE.	
WIND-BORNE DEBRIS REGION	NO	

WIND PRESSURES ON WALLS & ROOFS [3]

EFFECTIVE AREA OF OPENING/ROOF ZONE	ROOF ZONES						EXTERIOR WALLS			
	ZONE 1, 2e, 2r		ZONE 2n, 3r		ZONE 3e		ZONE 4		ZONE 5	
0 TO 10	27.7	-50.8	27.7	-55.9	27.7	-68.7	30.2	-32.9	30.2	-40.5
10.1 TO 20	24.6	-43.2	24.6	-50.0	24.6	-61.1	28.9	-31.5	28.9	-37.8
20.1 TO 50	20.6	-32.9	20.6	-42.2	20.6	-50.8	27.1	-29.7	27.1	-34.2
50.1 TO 100	17.4	-25.1	17.4	-36.2	17.4	-43.2	25.7	-28.4	25.7	-31.5
100.1 TO 500	-	-	-		-	-	22.6	-25.1	22.6	-25.1

1. WIND PRESSURES SHOWN ABOVE ARE FOR STRUCTURES WITH A MEAN ROOF HEIGHT OF 30 FEET OR LESS WITH A ROOF PITCH BETWEEN 2/12 & 12/12 (VERT./HORIZ.). IF THE STRUCTURE IS OUTSIDE THESE PARAMETER PLEASE CONTACT THE ENGINEER.
2. THE EFFECTIVE AREA IS EQUAL TO THE LENGTH * WIDTH OF THE PROPOSED OPENING OR SPAN. THE WIDTH SHALL BE PERMITTED TO BE NOT LES THAN $\frac{1}{3}$ OF THE SPAN LENGTH. THE EFFECTIVE AREA FOR FASTENERS SHALL NOT BE GREATER THAN THE TRIBUTARY AREA B/T FASTENERS.
3. ALL WIND PRESSURE VALUES IN POUNDS PER SQ. FT(PSF) & ARE CONSIDERED NOMINAL VALUES(ASD) IN ACCORDANCE w/ FBC TABLE R301.2(2)



ABBREVIATIONS	
BM	BEAM
CONT.	CONTINUOUS
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
DL	DEAD LOAD
EOR	ENGINEER OF RECORD
EXT.	EXTERIOR
FBC	FLORIDA BUILDING CODE (2020, 7TH EDITION)
FFE	FINISHED FLOOR ELEVATION
FTG	FOOTING
FPA	FLORIDA PRODUCT APPROVAL
INT.	INTERIOR
LG	LENGTH
LL	LIVE LOAD
LVL	LAMINATED VENEER LUMBER (2.0E, 1 $\frac{3}{4}$" WIDE MIN. U.N.O.)
MAX.	MAXIMUM
MIN.	MINIMUM
OR	"OR" MEANS THAT EITHER OPTION PROVIDED IS SUFFICE FOR THE APPLICATION
O.C.	ON CENTER SPACING
OPT	OPTIONAL
OSB	ORIENTED STAND BOARD (APA RATED MIN.)
PCF	POUNDS PER SQUARE FEET
PLYW.	PLYWOOD (APA RATED MIN.)
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
SS	STAINLESS STEEL
SPF	SPRUCE-PINE-FIR
SYP	SOUTHERN YELLOW PINE (No. 2 MIN.)
SW	SHEAR WALL
TYP	TYPICAL
U.N.O.	UNLESS OTHERWISE NOTED
w/	WITH
w/o	WITHOUT
W.W.M/F	WELDED WIRE MESH OR FABRIC

SHEET INDEX	
S-1	GENERAL NOTES & SPECIFICATIONS
S-2	FOUNDATION PLAN & DETAILS
S-3	FRAMING PLAN
S-4	TRUSS LAYOUT
S-5 - S-9	FOUNDATION & FRAMING DETAILS

SYMBOL LEGEND

WALL SECTION	VIEW DIRECTION; DETAIL/SECTION NUMBER; LOCATION OF SECTION CUT; SHEET No. WHERE SECTION IS LOCATED.
ELEVATION	DETAIL/SECTION NUMBER; VIEW DIRECTION; SHEET No. WHERE SECTION IS LOCATED.
DETAIL	DETAIL/SECTION NUMBER; SHEET No. WHERE SECTION IS LOCATED.
CALL OUT	A
CUT/MATCH LINE	
ELEVATION DATUM	
SLAB STEP (INCHES)	X

MARTIN ENGINEERING, LLC.
450 STATE ROAD 13 N., #106-387
JACKSONVILLE, FL 32259
904-472-1459
FL C.A# 32027

REVISIONS

No.	DATE	DESCRIPTION	APPROVED

NOTES

NEW SINGLE FAMILY
2113 SW CENTERVILLE AVENUE
FORT WHITE, FL 32038

PROJECT#:	21-750
DATE:	11/12/21
DRAWN:	KCM
DESIGNED:	KCM
SCALE:	AS SHOWN

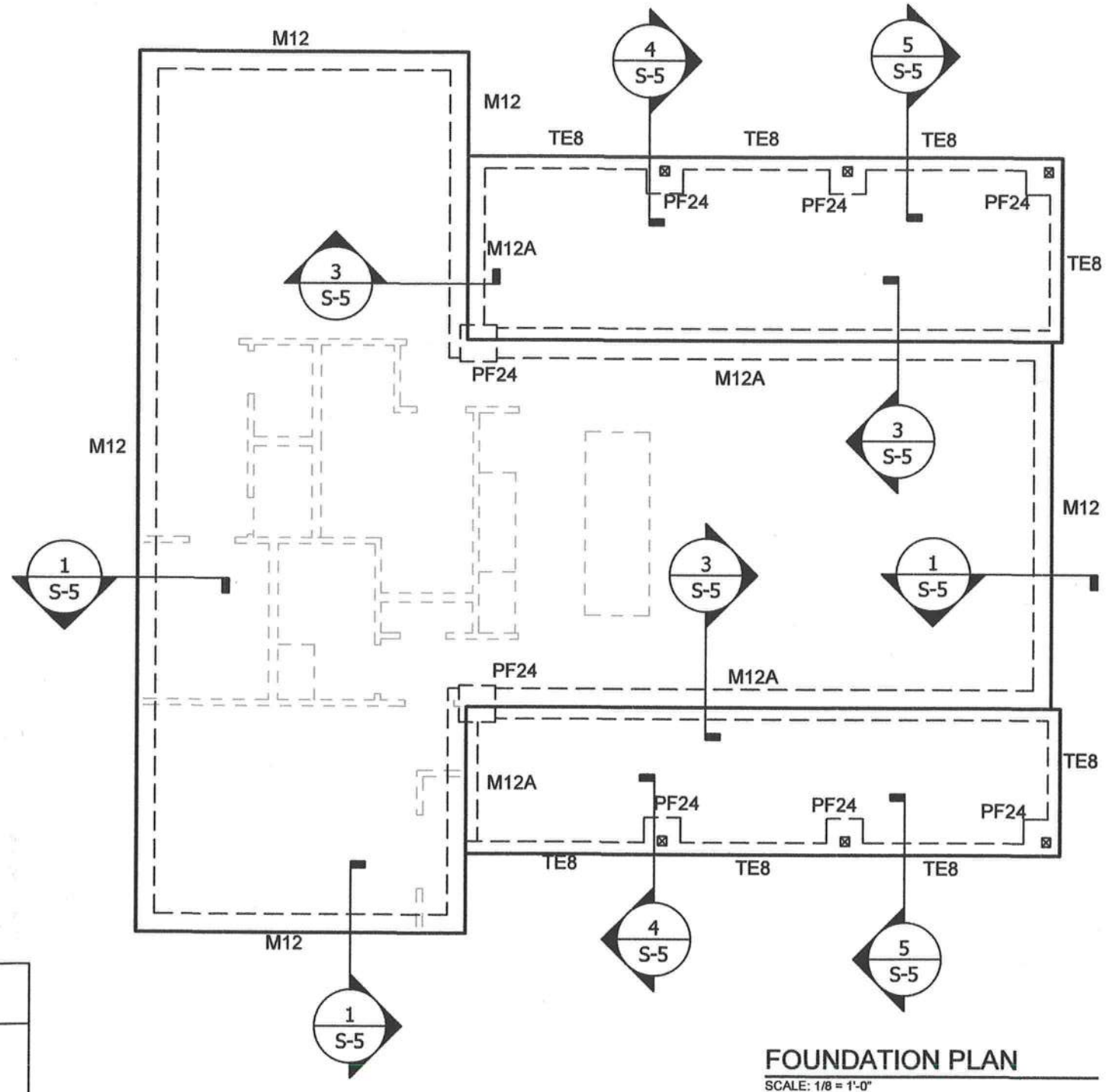
KEVIN C. MARTIN, P.E# 80359

SHEET
S-1

ALL SLABS:

4" DEEP POURED CONC, SLAB W/ 6X6, #10/10 W.W.W. OR FIBERMESH REINF. OVER 6 MIL VAPOR BARRIER OVER CLEAN COMPACTED FILL. SEE DETAIL 6 ON S-5 FOR TYP. JOINT DETAILS

NOTE TO CONTRACTOR:THE PLAN SHOWN ON THIS SHEET IS FOR STRUCTURAL FOUNDATION REQUIREMENTS AND LOCATIONS ONLY. REFER TO THE ARCHITECTURAL PLANS FOR SLAB AND FOUNDATION DIMENSIONS.



FOUNDATION PLAN
SCALE: 1/8 = 1'-0"

FOUNDATION SCHEDULE

TYPE MARK	WIDTH	LENG.	DEPTH	REINFORCING		TYPE
				BOTTOM	TRANSVERSE	
M12	1' - 0"	CONT.	1' - 0"	(2) #5 CONTINUOUS	N/A	EXTERIOR MONOLITHIC
M12A	1' - 0"	CONT.	1' - 0"	(2) #5 CONTINUOUS	N/A	INTERIOR MONOLITHIC
M8A	8"	CONT.	1' - 0"	N/A	(1) #4 CONTIN	GARAGE CURB STEP
PF24	2' - 0"	2' - 0"	1' - 0"	(2) #5 EACH WAY	N/A	SPREAD/PAD FOOTING

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FOUNDATION PLANS

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11/12/21
KEVIN C. MARTIN, P.E# 80359

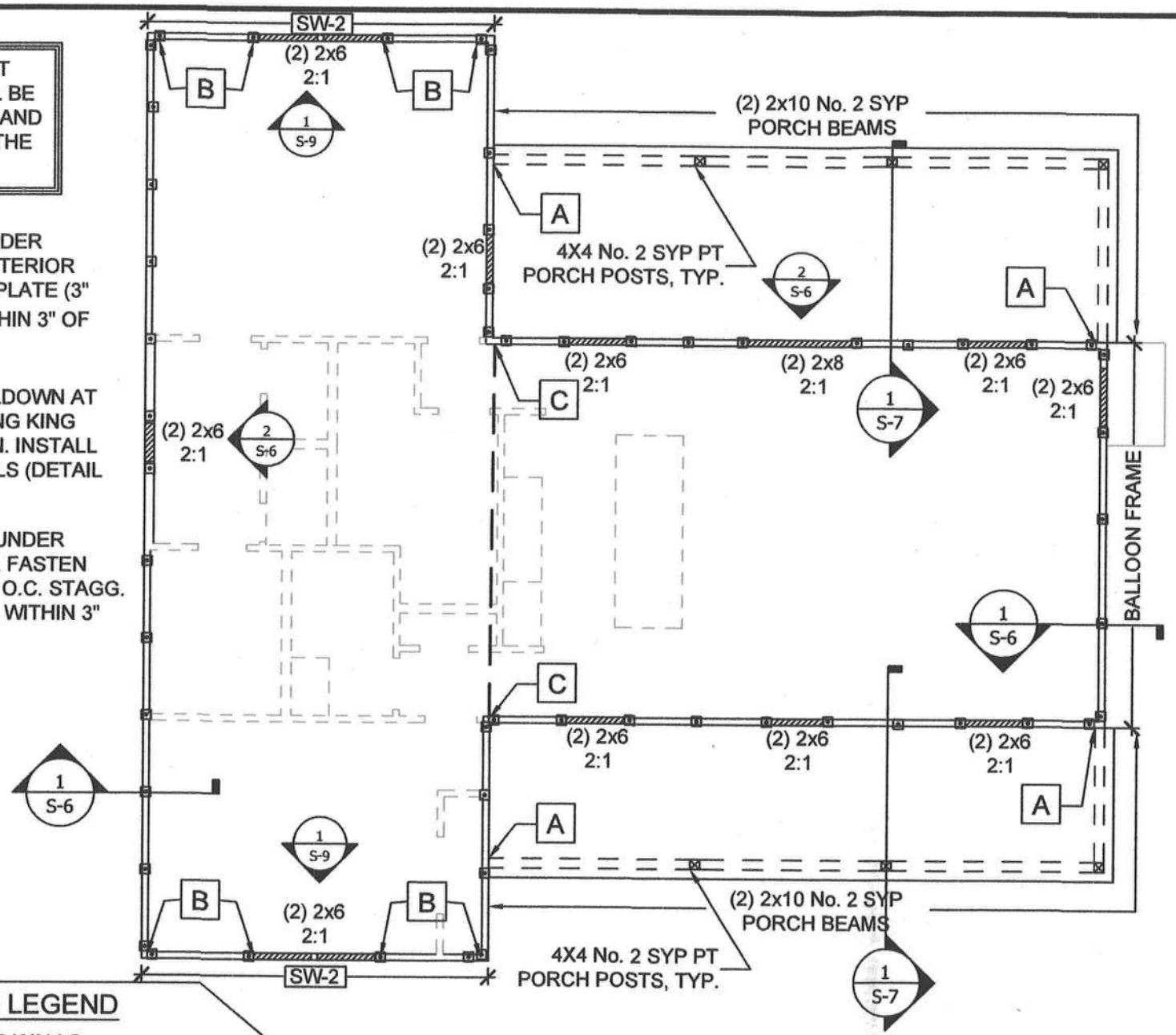
SHEET
S-2

ALL W.D. EXTERIOR WALLS NOT LABELED AS SHEARWALLS SHALL BE CONSIDERED SHEARWALL "**SW-1**" AND CONSTRUCTED ACCORDING TO THE SHEARWALL LEGEND, U.N.O.

A PLACE DBL. STUD GROUP UNDER PORCH BEAM BEARING IN EXTERIOR WALL. NOTCH BEAM AT TOP PLATE (3" MAX) . PLACE (1) $\frac{3}{8}$" A.T.R. WITHIN 3" OF BEAM BEARING

B INSTALL SIMPSON DTT2Z HOLDOWN AT BASE OF CORNER OR OPENING KING STUD GROUP WHERE SHOWN. INSTALL PER TYPICAL ANCHOR DETAILS (DETAIL 2/S-7)

C INSTALL 3-PLY STUD GROUP UNDER GIRDER ROOF TRUSS ABOVE. FASTEN STUDS T/G w/ 8d NAILS AT 12" O.C. STAGG. EACH SIDE. INSTALL (2) A.T.R. WITHIN 3" OF BEARING(1 EACH SIDE)



FRAMING PLAN
SCALE: 1/8" = 1'-0"

FRAMING LEGEND

- STRUCTURAL BEARING WALLS
- OPENING HEADER BEAMS
- PORCH BEAMS & OTHERS
- SW-1 SHEARWALL SEGMENTS
- GIRDER ROOF/
- POSTS/COLUMNS

No. OF PLIES — SIZE OF HEADER: (2) 2x__

No. OF KING STUDS — No. JACK STUDS

3/8" THREADED ROD AT 48" O.C.(U.N.O.) w/ 3"x3"x0.229" SQ. WASHER FROM DBL. TOP PLATE TO FTG. DRILL & EPOXY w/ MIN. 7" EMBEDMENT. PLACE WITHIN 3" OF HEADER STUD GROUP,TRUSS BEARINGS, AND AT END OF EACH SHEARWALL SEGMENT WHERE SHOWN. SEE TYP. ANCHOR DETAILS (2/S-7) FOR INSTALL SPECS.

FASTENER LEGEND

NAIL	DIAMETER	LENGTH
8d COM./BOX	0.131"/0.113"	2 $\frac{1}{2}$"
8d RINGSHANK	0.113"	2 $\frac{3}{8}$"
10d x 1 $\frac{1}{2}$"	0.148"	1 $\frac{1}{2}$"
10d COMMON	0.148"	3"
10d RINGSHANK	0.120"	2 $\frac{7}{8}$"
12d COMMON	0.148"	3 $\frac{1}{4}$"
16d COMMON	0.162"	3 $\frac{1}{2}$"

1. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED ON THE PLANS.
2. INSTALL 10d NAILS IF NOT OTHERWISE NOTED ON THE PLANS.
3. INSTALL THE APPROPRIATE FASTENERS FOR PRESSURE TREATED LUMBER. SEE NOTES ON SHEET S-1.

STRUCTURAL SHEATHING LEGEND

TYPE	SHEATHING	FASTENERS	SHEATHING AREAS		
			EDGES	FIELD	GABLE ENDS
ROOF	15/32" OSB/PLY	8d RING SHANK	6" o.c.	6" o.c.	4" o.c. FIELD & EDGES 4' FROM ROOF EDGE/END WALL
FLOOR	23/32" T&G OSB/PLY	10d COMMON (GLUED & NAILED)	6" o.c.	6" o.c.	
**PORCH CEILINGS	3/8" OSB/PLY	8d COM./BOX	3" o.c.	6" o.c.	
WALLS	7/16"(MIN.) OSB/PLY	8d COM./BOX (U.N.O.)	SEE SHEAR WALL LEDGED		

1. ALL WOOD STRUCTURAL SHEATHING SHALL BE APA RATED, EXPOSURE 1.
2. STRUCTURAL WOOD PANELS NOMINAL THICKNESS & SPAN RATINGS SHALL ME THE FOLLOWING MINIMUM REQUIREMENTS:
   - 7/16" = .437" THICKNESS - 24/16 SPAN RATING
   - 15/32" = .469" THICKNESS - 32/16 SPAN RATING
   - 19/32" = .594" THICKNESS - 40/20 SPAN RATING
   - 23/32" = .719" THICKNESS - 48/24 SPAN RATING
3. ALL ROOF SHEATHING SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO THE ROOF SUPPORTS.
4. SHEATHING/SUBSTRATES & FASTENINGS FOR EACH ROOFING TYPE SHALL BE I ACCORDANCE w/ THE FLORIDA PRODUCT APPROVAL.
5. FASTENERS FOR ROOF SHEATHING GREATER THAN $\frac{15}{32}$" SHALL BE 8d COMMON(.131x2 $\frac{1}{2}$") RING SHANK NAILS U.N.O.
6. 2x BLOCKING FOR EDGE NAILING SHALL BE INSTALLED IF NOTED ON THE PLANS

SHEAR WALL LEGEND

ID	SHEATHING	FASTENING				SILL ANCHORS (STUBBIES)	END STUD GROUPS
		VERTICAL EDGES	HORIZONTAL EDGES		FIELD		
			NAIL/SPACING	ROW			
SW-1	7/16"	8d AT 6"	8d AT 6"	SINGLE	8d AT 12"	48" O.C.	2
SW-2*	7/16"	8d AT 3"	8d AT 3"	SINGLE	8d AT 6"	24" O.C.	2

* SW-2 SHEATHING TO BE INSTALLED HORIZONTALLY w/ BLOCKED EDGES

1. ALL SHEATHING MUST BE MINIMUM OF $\frac{7}{16}$" RATED OSB OR PLYWOOD & FASTENED PER THE TYPICAL DETAILS.
2. SHEATHING MAY BE INSTALLED HORIZONTALLY(U.N.O.). ALL HORIZONTAL EDGES MUST BE FULLY BLOCKED w/ 2x FRAMING LAID FLAT AGAINST BACK SIDE OF SHEATHING FOR NAILING.
3. A MINIMUM GAP OF $\frac{1}{8}$" AT SHEATHING JOINTS MUST BE MAINTAINED.
4. HOLDOWNS MUST BE PLACED AT EACH END OF SHEARWALL, U.N.O. SEE FRAMING PLAN/DETAILS FOR HOLDOWNS TYPES, LOCATIONS, & INSTALLATION SPECS.
5. ALL SILL ANCHORS(STUBBIES) SHALL BE A MIN. OF 3/8" IN DIA. w/ 3"x3"x$\frac{1}{8}$" SQUARE WASHER & NUT. PLACE ANCHORS ON EACH SIDE OF PLATE SPLICE. SEE TYPICAL ANCHOR DETAILS FOR INSTALLATION SPECS. FULL HT. ALL THREAD RODS MAY BE USED IN LIEU OF STUBBIES PROVIDED THE MINIMUM STUBBIE SPACING IN MAINTAINED.
6. EXTERIOR STUCCO FINISH REQUIRES A MIN. 15/32" RATED SHEATHING INSTALLED HORIZONTALLY w/ 2x FLAT WISE BLOCKED EDGES.
7. MINIMUM END STUDS FOR EACH SHEAR WALL SECTION ARE SHOWN IN TABLE ABOV AND SHALL BE CONSTRUCTED PER THE TYPICAL CORNER FRAMING DETAIL.
8. SHEARWALL FASTENING SHOULD BE CONSTRUCTED PER THE TYPICAL SHEATHING FASTENING DETAILS AND NOTES.

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FRAMING PLAN

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2113 SW CENTERVILLE AVENUE
FORT WHITE, FL 32038

PROJECT#:	21-750
DATE:	11/12/21
DRAWN:	KCM
DESIGNED:	KCM
SCALE:	AS SHOWN

11/12/21
KEVIN C. MARTIN, P.E# 80359

SHEET
S-3

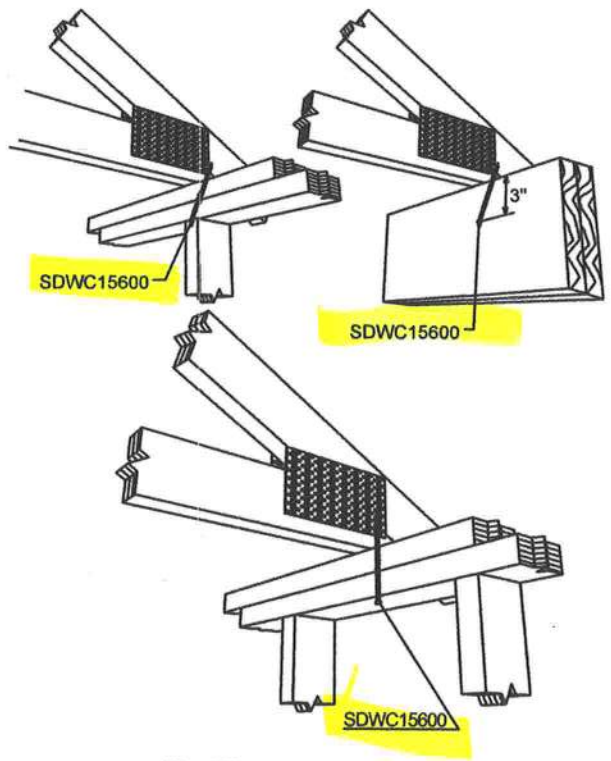
TRUSS TO TOP PLATE CONNECTOR SCHEDULE

TRUSS	TRUSS END	INTERIOR BEARING POINTS		TRUSS END
	UPLIFT/CONNECTOR	UPLIFT/CONNECTOR	UPLIFT/CONNECTOR	UPLIFT/CONNECTOR
G01	<1245# / 2	N/A	N/A	<1245# / 2
ALL OTHER TRUSSES**	<615# / 1	N/A	N/A	<615# / 1

1. SIMPSON SDWC15600 TRUSS SCREWS THROUGH TOP PLATES/HEADERS INTO TRUSSES.

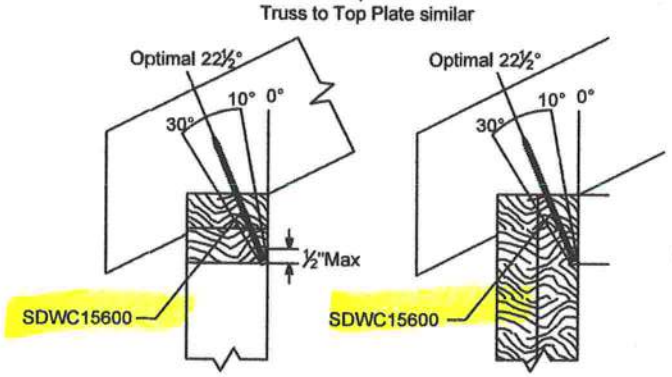
** MULTI-PLY TRUSSES MUST HAVE (1) UPLIFT CONNECTOR PER TRUSS PLY UNLESS NOTED OTHERWISE.

CODES: SDWC15600: FL 13975.2

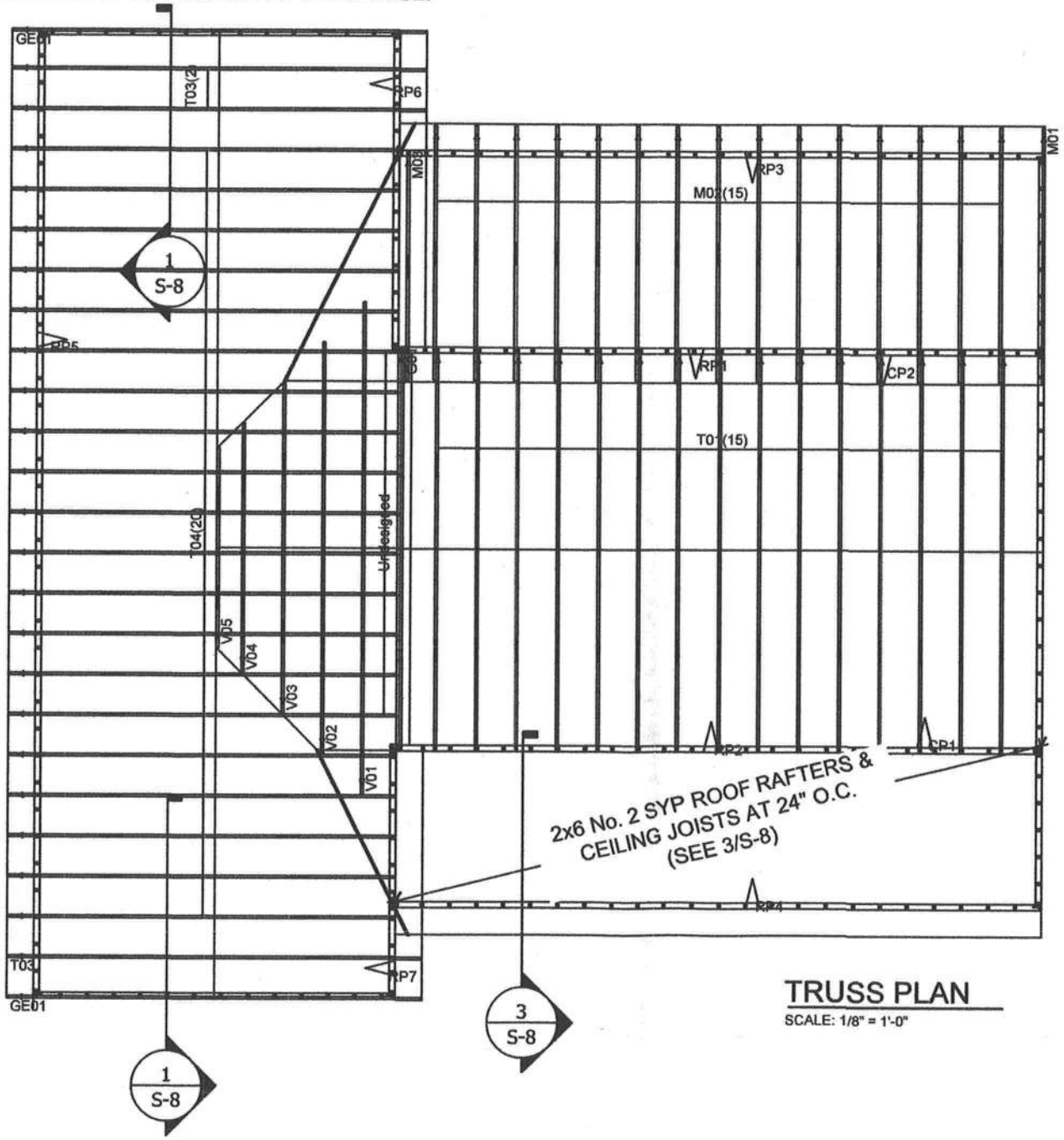


Note: Reference detail 2a for installation angle limit

Rafter to Top Plate shown
Truss to Top Plate similar



Note: 1. Sloped-roof rafters may be sloped up to and including a 12:12 pitch and must be "birdsmouth" cut.
2. Reference detail 4 for installation instructions.



TRUSS PLAN
SCALE: 1/8" = 1'-0"

TRUSS NOTES:

1. ALL TRUSSES SHALL BE DESIGNED AND APPROVED BY THE DELEGATED TRUSS ENGINEER AND BE LICENSED IN THE STATE OF FLORIDA.
2. ALL TRUSSES SHALL BE DESIGNED TO MEET OR EXCEED THE ULTIMATE WIND SPEED, EXPOSURE CATEGORY, AND LOADINGS SPECIFIED ON THE STRUCTURAL NOTES PAGE S-1.
3. ALL ROOF AND FLOOR TRUSS ENGINEERING SHALL MATCH THE PROVIDED LAYOUT SHOWN IN THESE PLANS. ANY VARIATIONS FROM THE PROVIDED LAYOUTS SHOULD BE REPORTED TO THE ENGINEER OF RECORD BEFORE CONSTRUCTION BEGINS.
4. TRUSSES MUST BE CAPABLE OF TRANSFERRING LATERAL LOADS TO THE STRUCTURAL LOAD BEARING WALLS SHOWN ON THE FRAMING PLAN.
5. UPLIFTS HAVE BEEN CALCULATED BY THE ENGINEER OF RECORD AND ALL CONNECTIONS FROM TRUSSES TO STRUCTURE HAVE BEEN SPECIFIED AND SHOULD BE FOLLOWED. ANY QUESTIONS AS TO THE SIZE, TYPE, OR VALUE OF A NAIL, STRAP OR CLIP SHOULD BE VERIFIED BY THE STRUCTURAL ENGINEER.
6. PERMANENT TRUSS WEB BRACING SHALL BE INSTALLED WITH THE SAME QUANTITY AND LOCATIONS SHOWN ON THE TRUSS ENGINEERING SHOP DRAWINGS. CONTINUOUS LATERAL BRACING SHALL BE IN ACCORDANCE WITH THE DETAILS
7. GYPSUM CEILING: FASTENING SHALL BE IN ACCORDANCE w/ TABLE R702.3.5 OF THE FBC.
8. TABLE 2304.9.1 OF THE FLORIDA BUILDING CODE NAILING REQUIREMENTS ARE IN ADDITION TO THE STRAPPING REQUIREMENTS.
9. PROVIDE 5/8" TYPE X GYP. BD. @ GARAGE CLG. BENEATH HABITABLE SPACE & 1/2" MIN GYP. BD. @ GARAGE SIDE WALLS & UNDERSIDE OF STAIRWAY IF USED AS ACCESSIBLE SPACE.
10. ALL TRUSS FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING SHALL BE IN ACCORDANCE WITH BCSI 1-03 MANUAL (BUILDING COMPONENT SAFETY INFORMATION) PRODUCED BY THE SBCA AND TPI.

OVER FRAMING NOTES:

1. ALL ROOF FRAMING MATERIALS SHALL BE 2x6(MIN.) No. 2 SOUTHERN YELLOW PINE (SYP) AT 24" O.C., U.N.O.
2. ALL ROOF RAFTERS AND COLLAR TIES TO BE A MIN. OF 2x6 No. 2 SYP. RIDGE BOARDS TO BE MIN. OF 2x8 No. 2 SYP.
3. ALL SLEEPERS TO BE A MIN. OF 2x8 No. 2 SYP FASTENED TO EACH TRUSS/RAFTER BELOW w/ (2) #10x3.5" W.D. SCREWS & WASHERS.
4. FASTEN ROOF RAFTERS TO RIDGE BOARDS AND "SLEEPERS" W/ SIMPSON A35 CLIPS, U.N.O.
5. FASTEN COLLAR TIES TO ROOF RAFTERS W/ (5) 10d NAILS AT EACH END.
6. COLLAR TIES SHALL NOT TO BE FASTENED LOWER THAN 2/3 OVERALL ROOF RAFTER HEIGHT.

MARTIN ENGINEERING, LLC.
450 STATE ROAD 13 N., #106-387
JACKSONVILLE, FL 32259
904-472-1459
FL C.A# 32027

REVISIONS

No.	DATE	DESCRIPTION	APPROVED

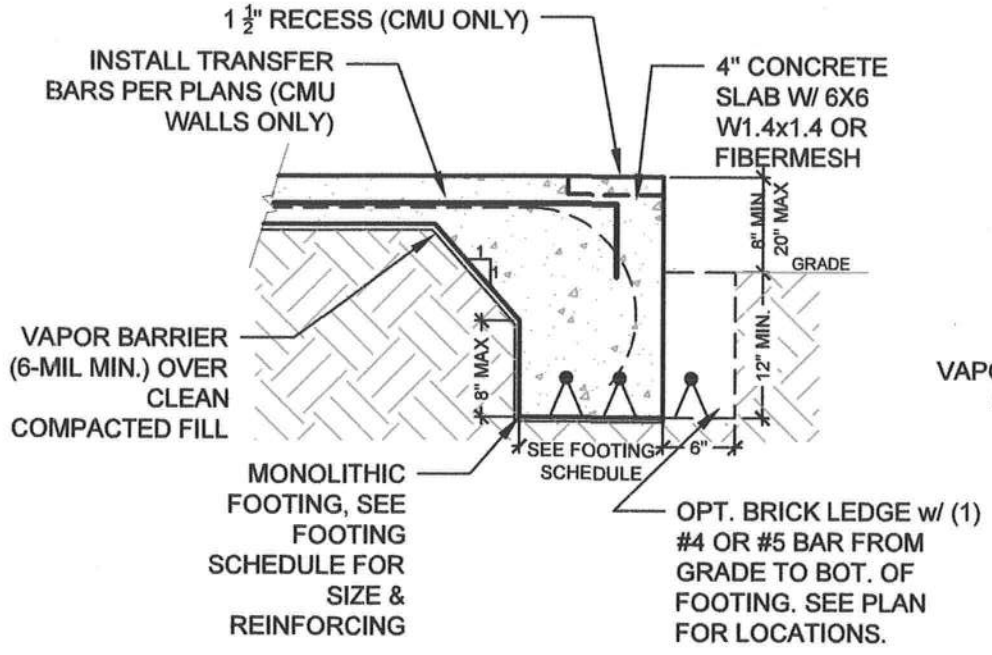
TRUSS PLAN

NEW SINGLE FAMILY
2113 SW CENTERVILLE AVENUE
FORT WHITE, FL 32038

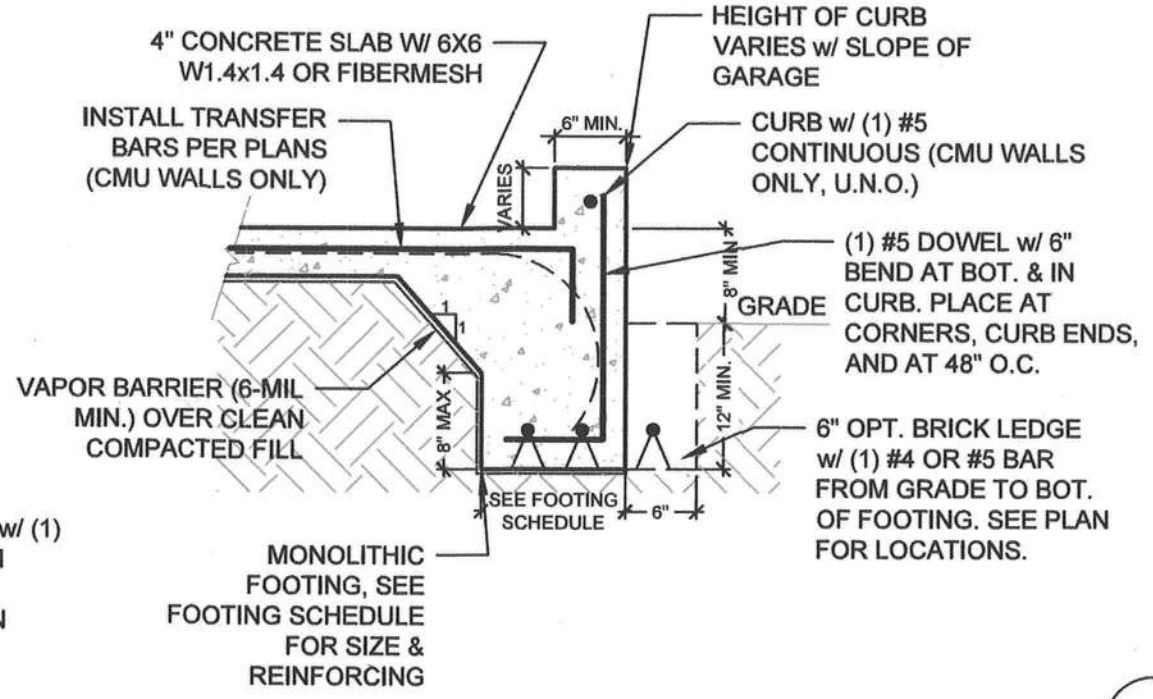
PROJECT#:	21-750
DATE:	11/12/21
DRAWN:	KCM
DESIGNED:	KCM
SCALE:	AS SHOWN

11/12/21
KEVIN C. MARTIN, P.E# 80359

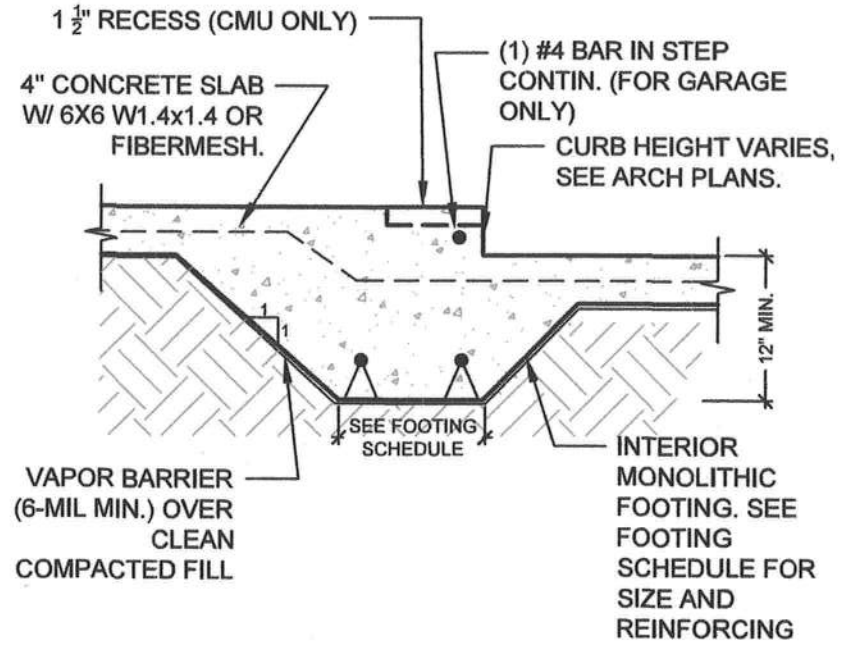
SHEET
S-4



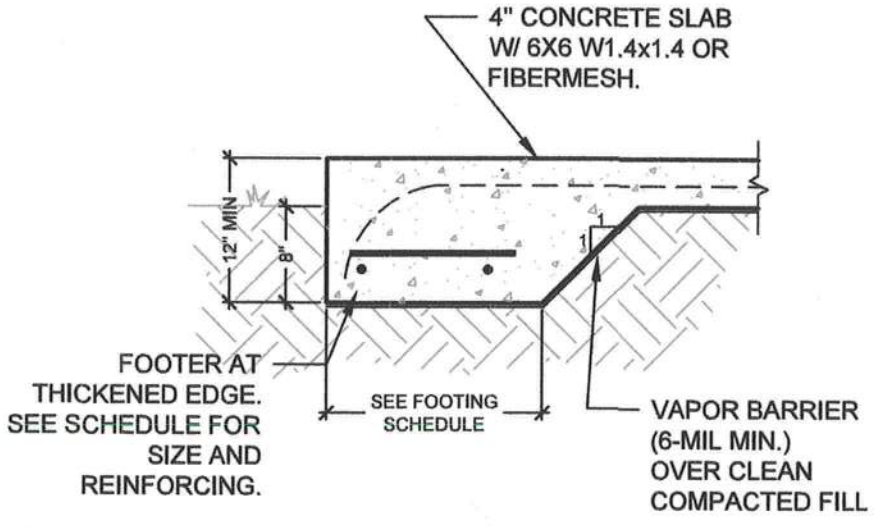
1 EXTERIOR MONOLITHIC FOOTING



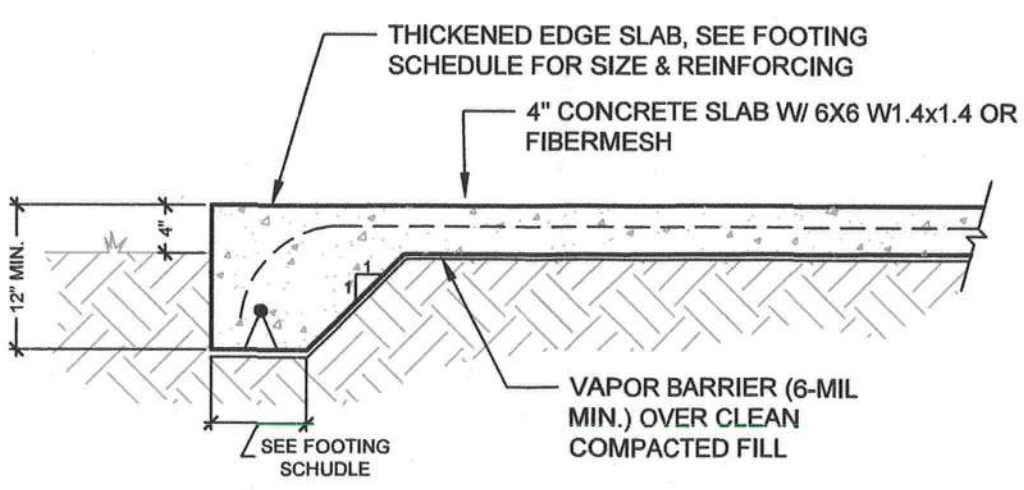
2 GARAGE/CURB MONOLITHIC FOOTING



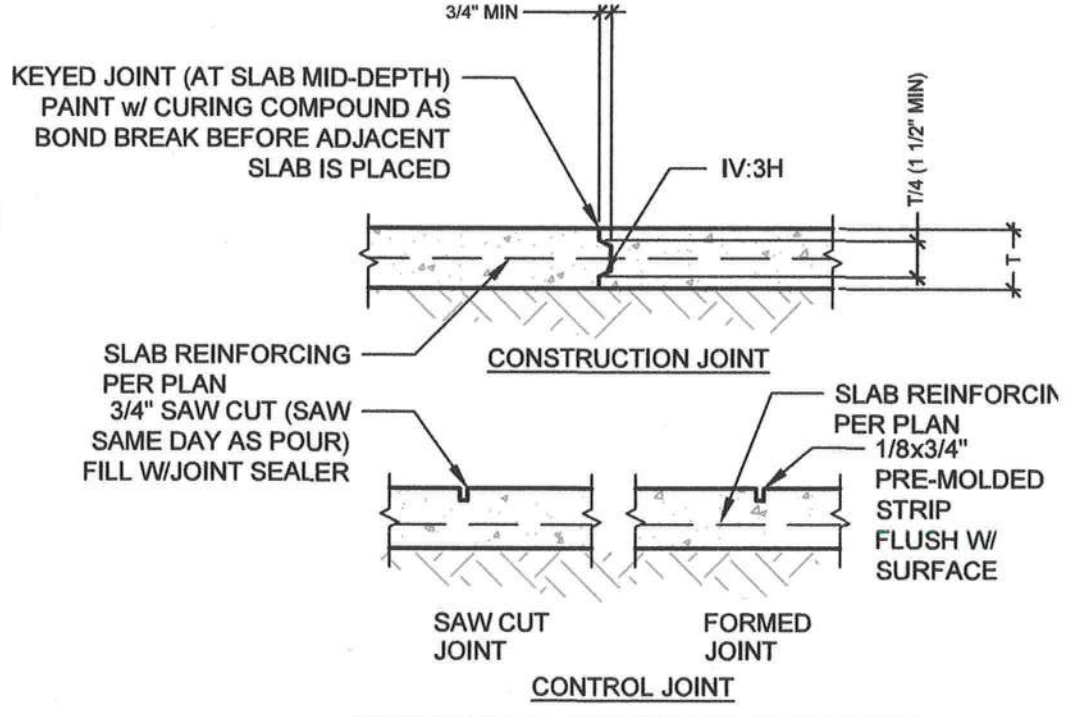
3 INTERIOR MONOLITHIC FTG.



4 SPREAD FTG. AT THICKENED EDGE



5 THICKENED EDGE SLAB



NOTE: CONTROL JOINTS TO BE 15'-0" OC MAX

6 TYPICAL JOINT DETAILS

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FOUNDATION DETAILS

NEW SINGLE FAMILY
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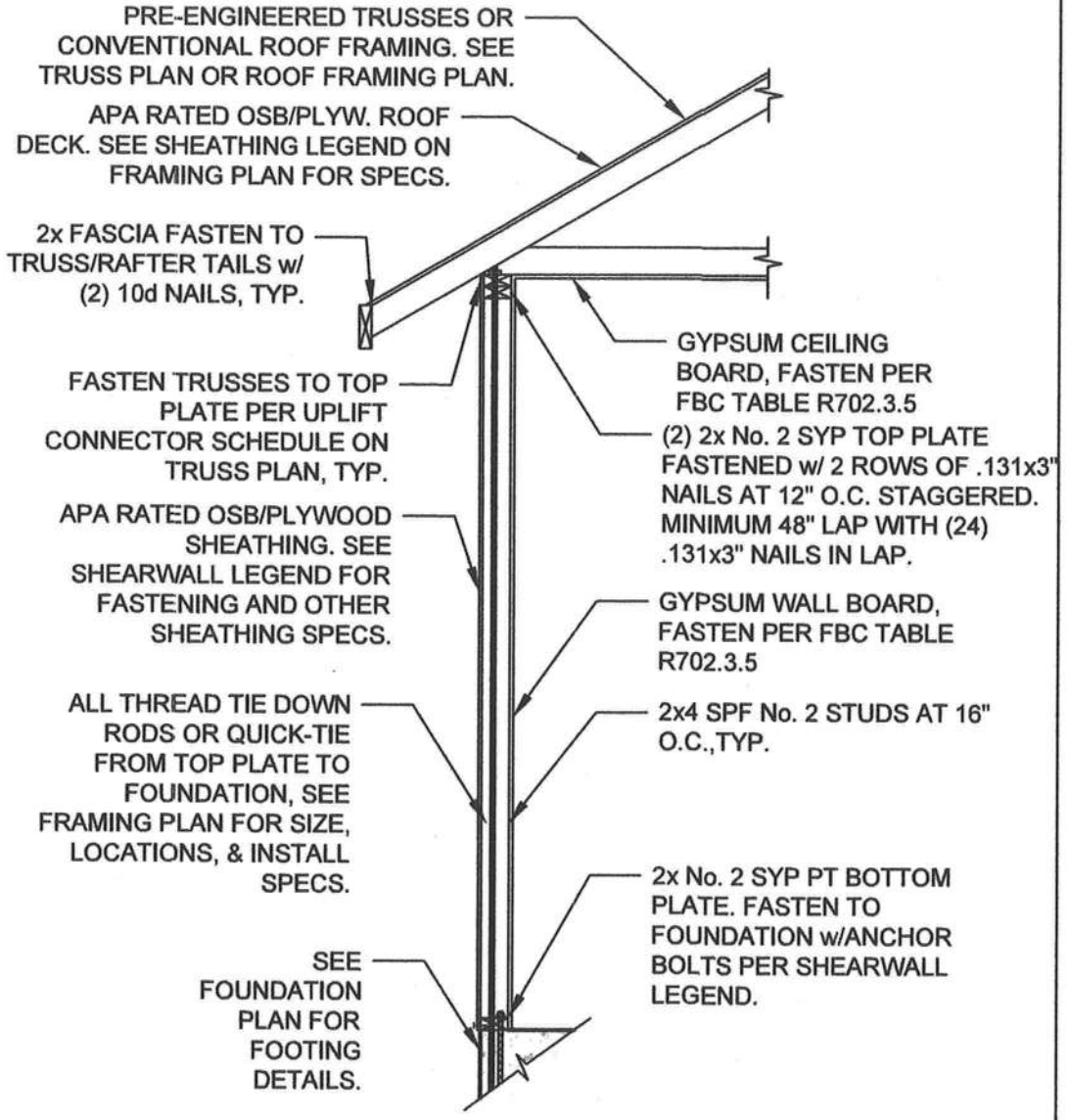
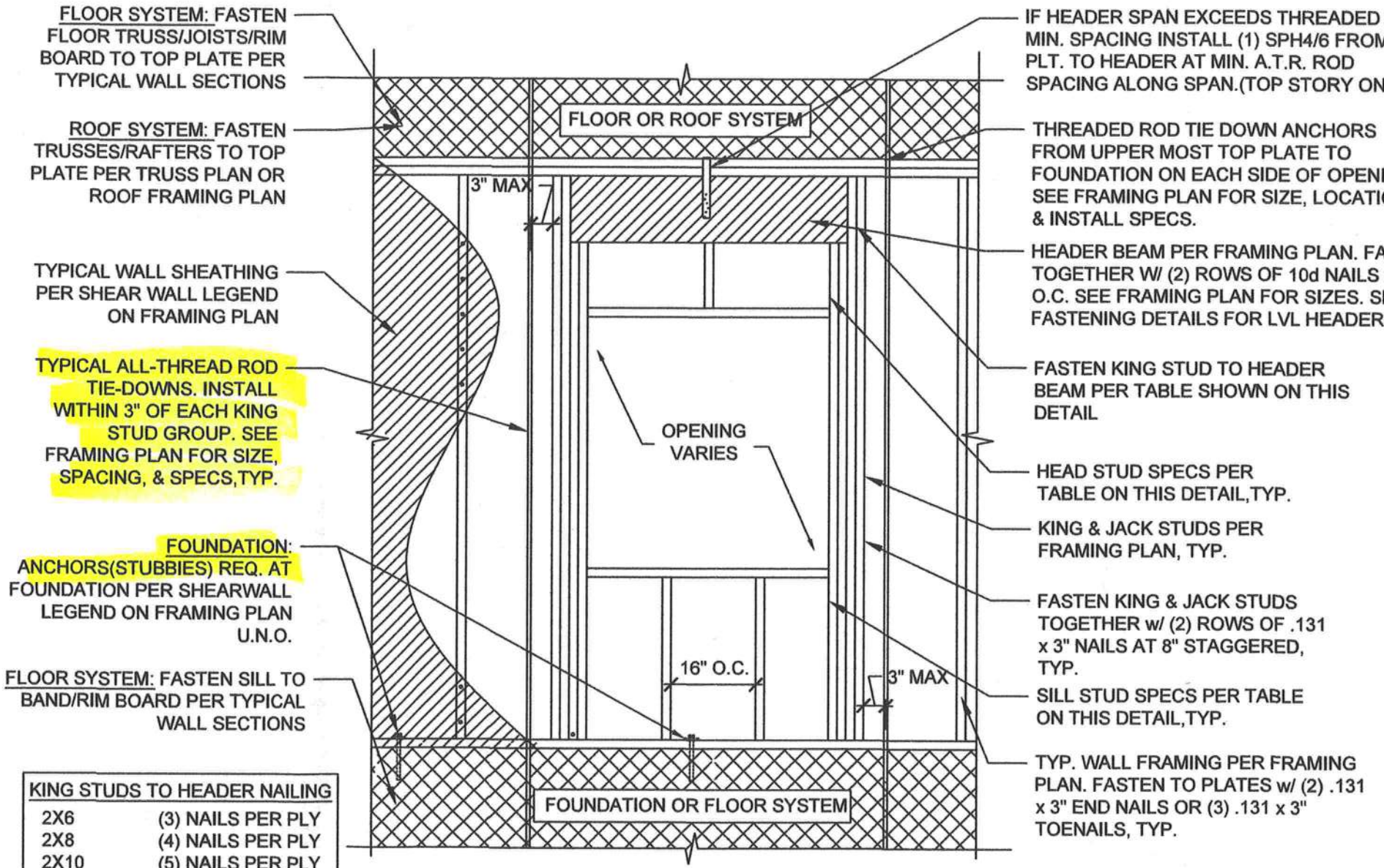
KEVIN C. MARTIN, P.E# 80359

SHEET
S-5



1 TYP. WALL FRAMING SECTION



KING STUDS TO HEADER NAILING	
2X6	(3) NAILS PER PLY
2X8	(4) NAILS PER PLY
2X10	(5) NAILS PER PLY
2X12	(6) NAILS PER PLY
9.5" LVL	(5) NAILS PER PLY
11 7/8"LVL	(6) NAILS PER PLY
14" LVL	(7) NAILS PER PLY
16" LVL	(8) NAILS PER PLY

OPENING HEAD/SILL STUD SPECS	
OPENING WIDTH	ATTACHMENT
0' - 8"	(3) .131"x3" TOE-NAILS
8' - 12'	(6) .131"x3" TOE-NAILS
12' - 18'	(2) A35 CLIPS
2-PLY HEAD/SILL STUDS: 6' - 10'	
3-PLY HEAD/SILL STUDS: 10' - 18'	

2 TYPICAL HEADER DETAIL

MARTIN ENGINEERING, LLC.
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FRAMING DETAILS

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2113 SW CENTERVILLE AVENUE
FORT WHITE, FL 32038

PROJECT#:	21-750
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DRAWN:	KCM
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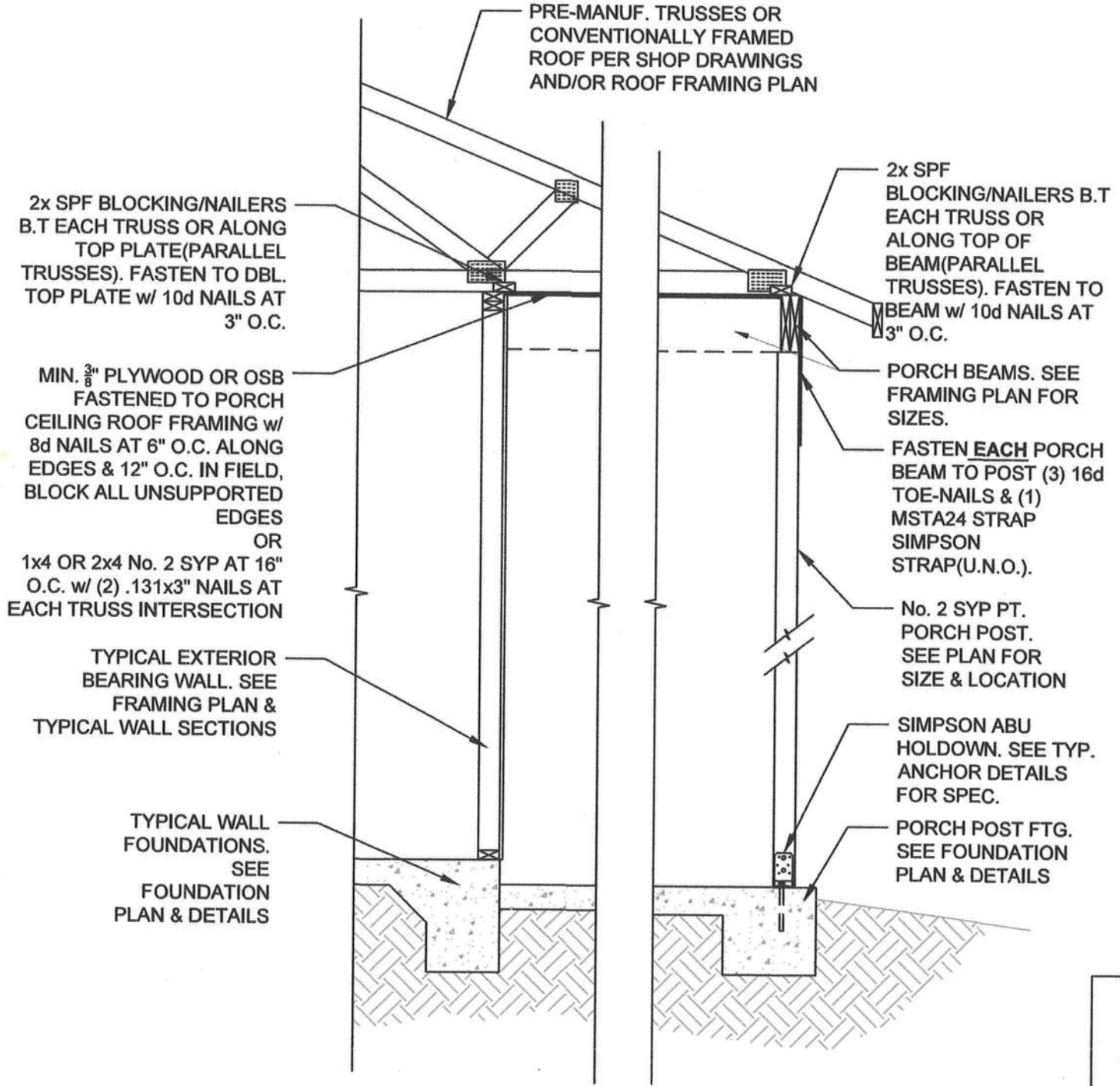
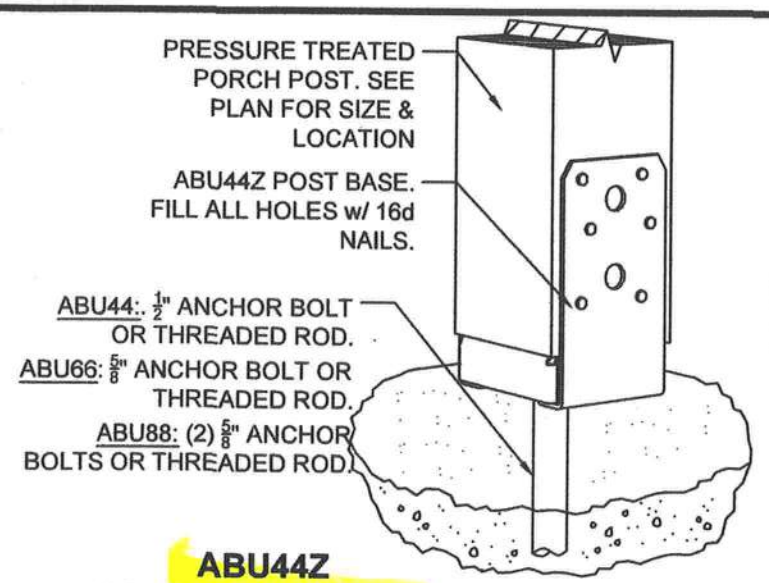
SCALE:	AS SHOWN

11/12/21
KEVIN C. MARTIN, P.E# 80359

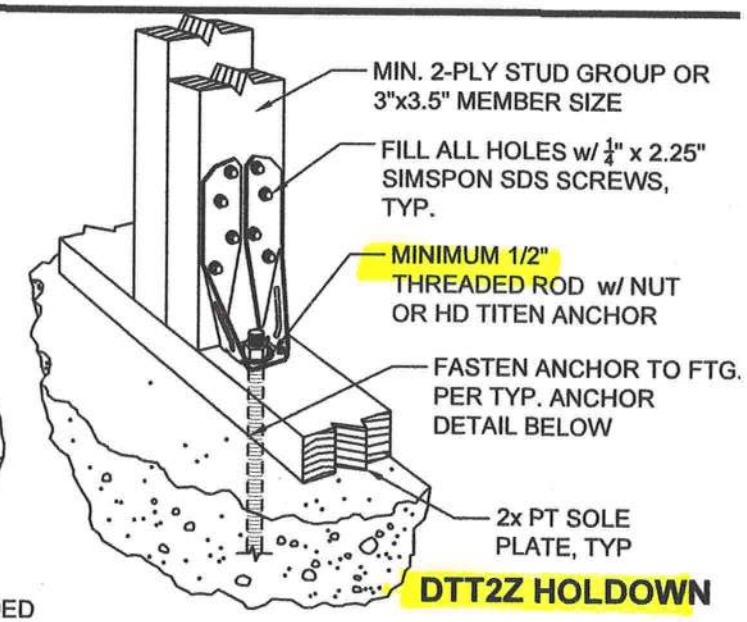
SHEET
S-6



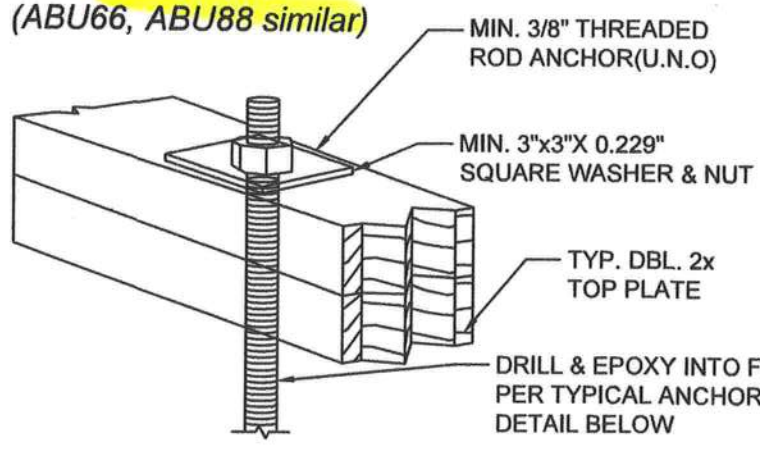
1 PORCH FRAMING DETAIL



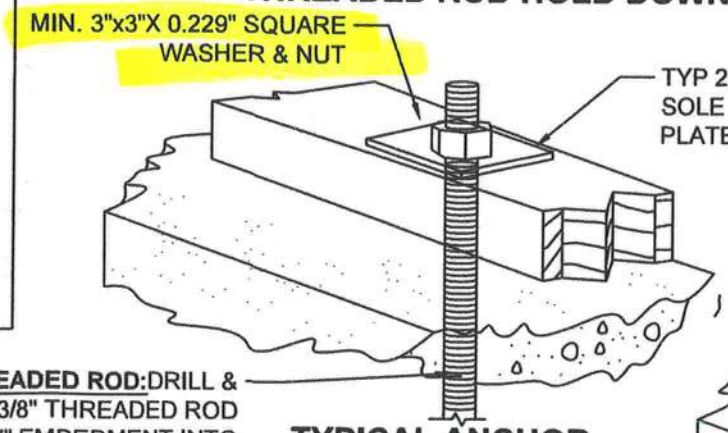
ABU44Z
(ABU66, ABU88 similar)



DTT2Z HOLDOWN

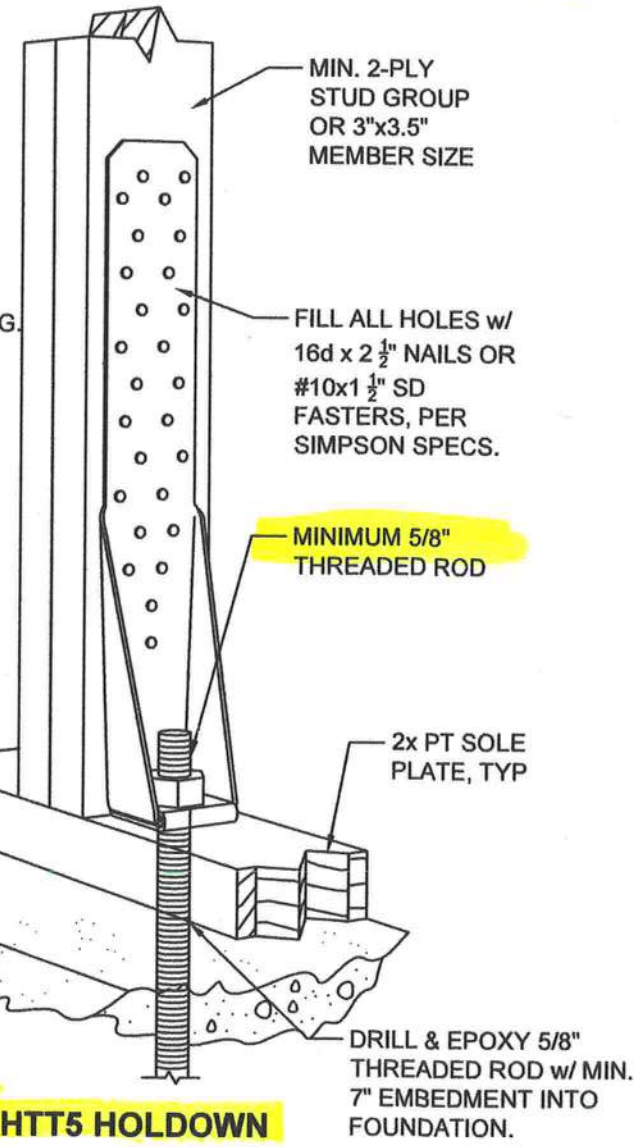


THREADED ROD HOLD DOWN



THREADED ROD: DRILL & EPOXY 3/8" THREADED ROD w/ MIN. 7" EMBEDMENT INTO FOUNDATION. OR
TITEN HD: 3/8" TITEN HD ANCHOR 8"LG.

TYPICAL ANCHOR (STUBBIE)



HTT5 HOLDOWN

2 TYPICAL ANCHOR DETAILS

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FRAMING DETAILS

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FORT WHITE, FL 32038

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SHEET
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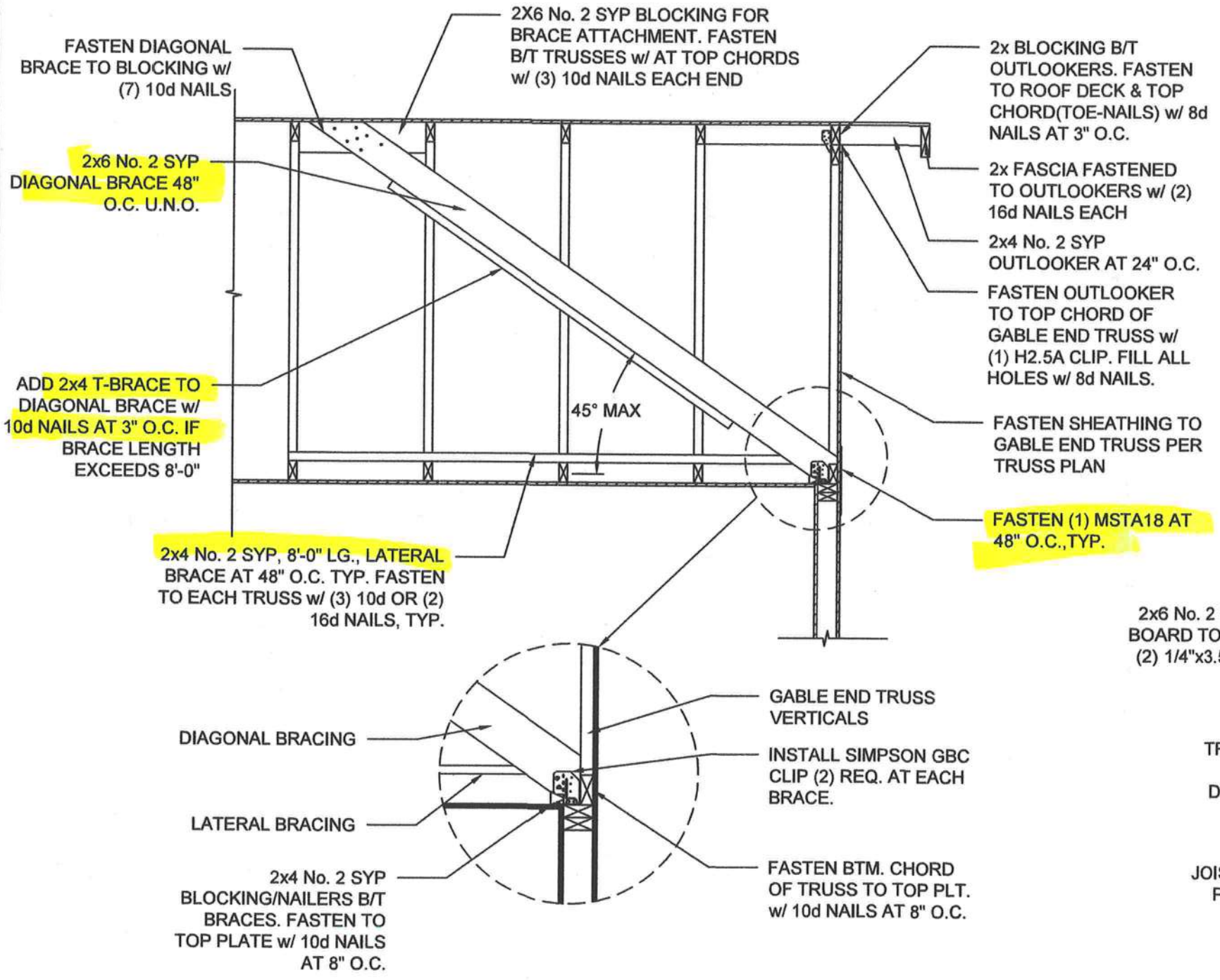
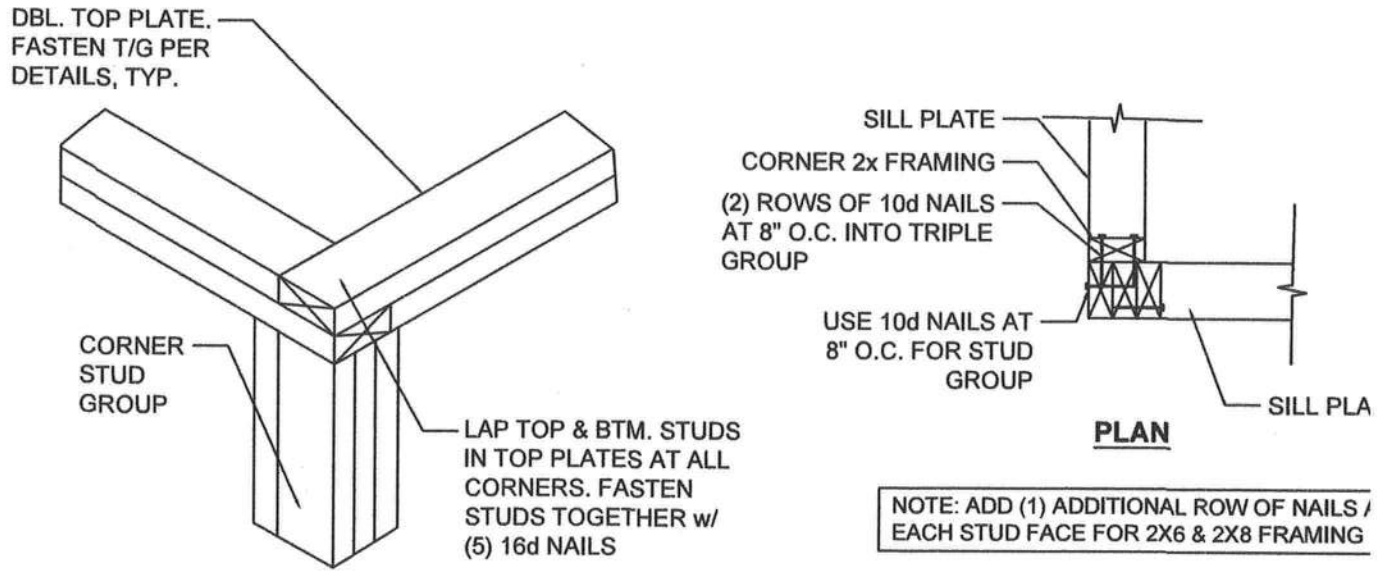
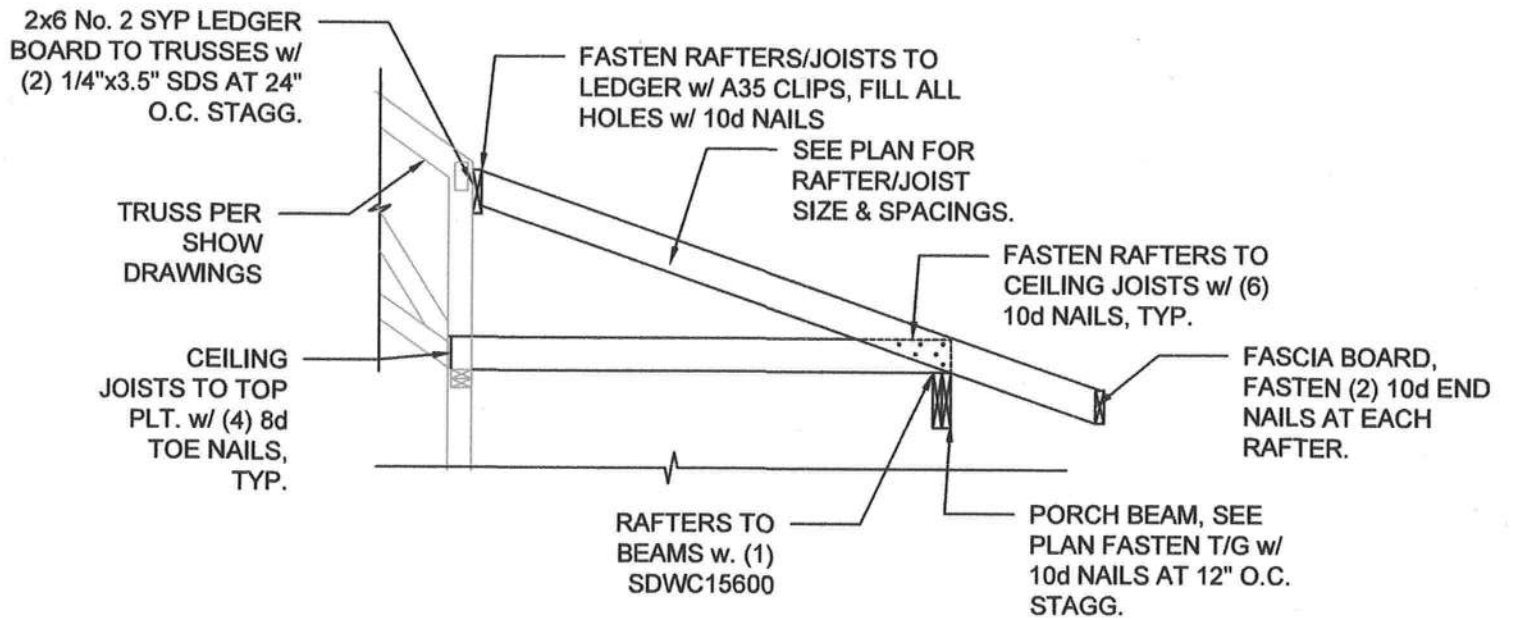


1 GABLE END BRACING DETAIL



2 CORNER FRAMING DETAIL



3 PORCH ROOF DETAIL

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SHEET
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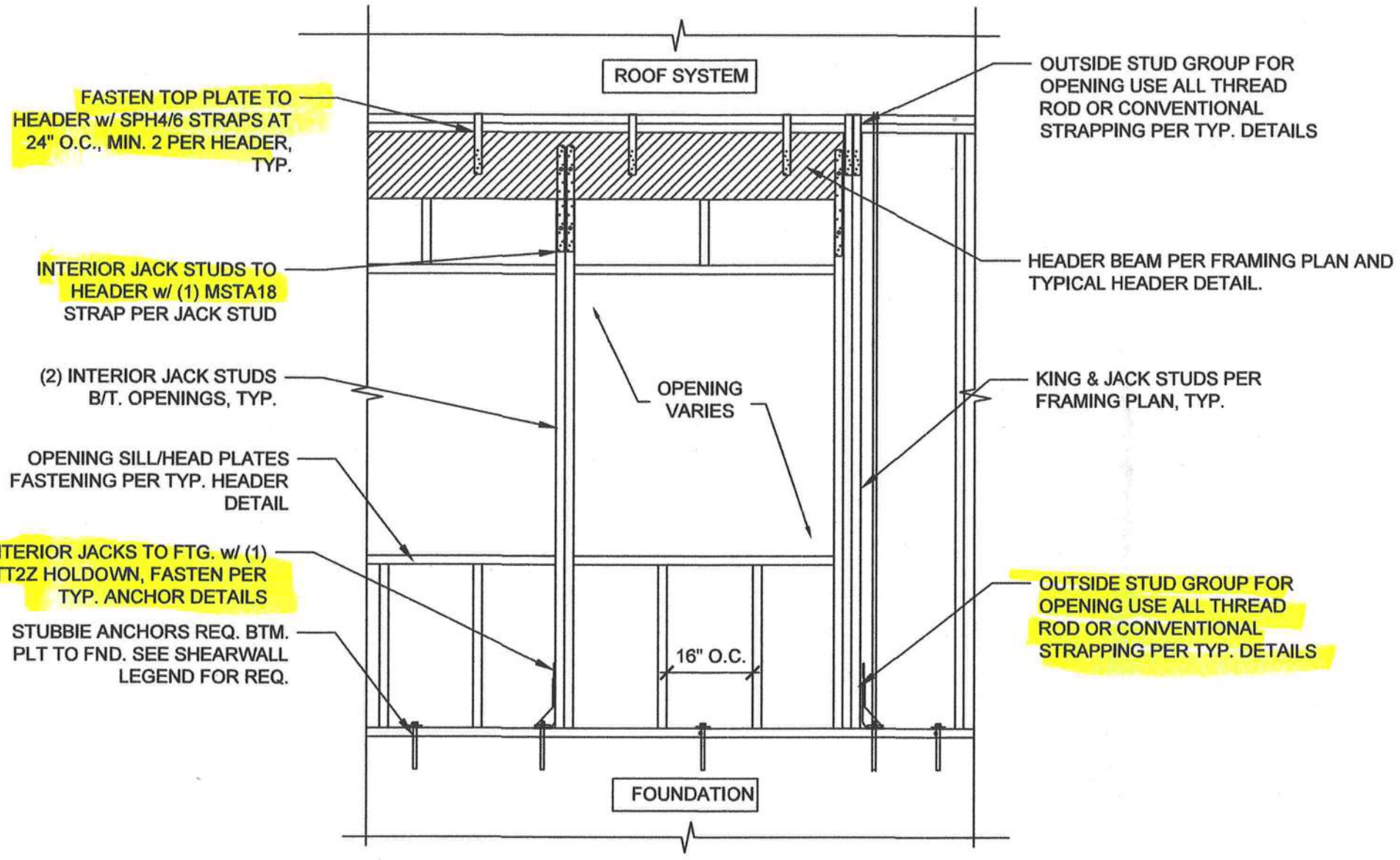

1 CONVENTIONAL STRAPPING

MARTIN ENGINEERING, LLC.
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STRUCTURAL DETAILS

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SHEET
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