

# Exhibit D - Structural\_W408\_S&S

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4/18/2023 12:08:11 PM

### GENERAL STRUCTURAL NOTES

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

CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

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 FBC EDITION OF THE FLORIDA BUILDING CODE. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. ADDITIONS ARE IN CONFORMANCE WITH THE 2020 EDITION OF THE FLORIDA EXISTING BUILDING CODE.

**DESIGN CRITERIA:** DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2020 FLORIDA BUILDING CODE. THE FOLLOWING LOADS WERE USED FOR DESIGN, WITH LIVE LOADS REDUCED PER THE 2020 FBC.

**SUPERIMPOSED DEAD LOADS:**  
ROOF: 20 PSF 300 POUND CONCENTRATED

INCLUDES AN ALLOWANCE OF 5 PSF AND A 250 LB POINT LOAD FOR WATER FILLED SPRINKLER PIPING.

**ROOF LIVE:** 20 PSF

**RAIN LOAD:** 5.0 IN/HR

**RAINFALL INTENSITY:** 5.0 IN/HR

**WIND SPEED (ASCE 7-16):** 170 MPH (132 MPH ALLOWABLE)

**RISK CATEGORY:** II

**EXPOSURE:** C

**INTERNAL PRESSURE COEFF:** ±0.18 ENCLOSED

**WALL PRESSURE:** ±0.60 PSF

**FOUNDATIONS:** FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF FOR SILTY SAND AND GRAVELLS. FOUNDATIONS SHALL BEAR ON COMPETENT NATURAL OR ARTIFICIAL SOIL. IF QUESTIONABLE SOILS OR POTENTIALLY UNSTABLE CONDITIONS ARE ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL BE RETAINED TO INVESTIGATE AND PROVIDE RECOMMENDATIONS.

**SUBMITTALS:** SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING:

CONCRETE MIX DESIGNS.  
CONCRETE AND MASONRY REINFORCING.  
SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

IF THE SHOP DRAWINGS OFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER.

DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS, INCLUDING: PREMANUFACTURED WOOD TRUSSES, MECHANICAL EQUIPMENT STANDS

SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON THE STRUCTURAL ELEMENTS INVOLVED IN THE CONNECTIONS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE 2020 FBC.

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS ON SHOP DRAWINGS OR IN DESIGN BY THE ENGINEER'S REVIEW.

**DEFERRED SUBMITTALS:** IN ACCORDANCE WITH FBC 107.3.1.1, THE FOLLOWING SPECIALTY ITEMS FOR PORTIONS OF THE BUILDING WILL NOT BE SUBMITTED AT THE TIME OF BUILDING PERMIT APPLICATION BUT WILL BE DEFERRED UNTIL AFTER THE PERMIT HAS BEEN ISSUED.

PREMANUFACTURED WOOD TRUSSES.  
MECHANICAL EQUIPMENT STANDS

THESE ELEMENTS ARE PERFORMANCE-BASED DESIGN. THE CONTRACTOR SHALL CONTRACT FOR THE DESIGN AND CONSTRUCTION OF THESE ELEMENTS DURING THE CONSTRUCTION PHASE. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND APPROVED BY THE ENGINEER. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. 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<sub>c</sub> USE:**  
3000 PSI FOUNDATIONS/SLAB ON GRADE  
4000 PSI ALL USES UNO.

CEMENT SHALL CONFORM TO ASTM C150 TYPE 1. FLY ASH CONFORMING TO ASTM C018, 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". THE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE, IF USED, SHALL CONFORM TO ASTM C494 AND 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.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A194 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 ROD WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL, SP-86. 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"

LAP SPICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS IN ACCORDANCE WITH ACI 318-14. FOR CLASS "B" TENSION LAP SPICES. DO NOT SPICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS. SHOW ALL SPICES ON SHOP DRAWINGS. SPICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

AT SLAB RE-ENTRANT CORNERS, PROVIDE (2) #6 X 4" DIAGONAL BARS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF (2) #5 BARS ALL FOUR SIDES AND DIAGONALLY EXTEND THROUGH THESE BARS. LAP SPACING OF A MINIMUM OF 24" PART 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.

SLAB ON GRADE: PREPARE SUBGRADE AS PER THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT. CHAIR WIRE FABRIC DURING CONCRETE PLACEMENT TO ENSURE PROPER POSITION IN SLAB. USE VAPOR BARRIER UNDER ALL ENCLOSED INTERIOR SPACES, PER ARCHITECTURAL DRAWINGS.

PLACE CRACK CONTROL JOINTS AS SHOWN ON PLAN OR AT 12 FEET MAXIMUM FOR 4" SLAB, OR 15 FEET MAXIMUM FOR 6" SLAB. JOINT SPACING SHALL NOT EXCEED A 1.5 TO 1 WIDTH TO LENGTH RATIO. CONTRACTOR SHALL SUBMIT A CONTROL JOINT LAYOUT FOR ENGINEER'S AND ARCHITECT'S REVIEW PRIOR TO CONCRETE PLACEMENT. LOCATE CONTROL JOINTS AT COLUMN LINES AND RE-ENTRANT CORNERS. TYPICAL (1) #6 X 4" DIAGONAL BARS AT SLAB RE-ENTRANT CORNERS.

FOR 4" THICK SLABS ON GRADE, PROVIDE #6 W/ 4W/14 WELDED WIRE FABRIC OR 1.5 POUNDS PER CUBIC YARD OF MICRO SYNTHETIC FIBERS (FRC MONO-160 OR EQUAL), UNLESS NOTED OTHERWISE. FOR 6" THICK SLABS ON GRADE, PROVIDE #6 W/20W/20 WELDED WIRE FABRIC PLACED 2" BELOW TOP OF SLAB OR 3 POUNDS PER CUBIC YARD OF MACRO SYNTHETIC FIBERS (FORTA FERRO OR EQUAL), UNLESS NOTED OTHERWISE.

**MASONRY WALLS:** MASONRY UNITS SHALL MEET ASTM C90, TYPE 2. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f<sub>m</sub> = 2,000 PSI. MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C270. GROUT SHALL MEET ASTM C276. GROUT STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY TESTS PER ASTM C270. GROUT SHALL CONSIST OF A MIXTURE OF GENUINE PORTLAND CEMENT AND AGGREGATE TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO CAUSE THE MIXTURE TO FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. ALL CELLS CONTAINING VERTICAL BARS, BOND BEAMS, AND ALL CELLS BELOW GRADE SHALL BE FILLED WITH GROUT. MAXIMUM HEIGHT OF GROUT POUR ALLOWED IS 4'-0" UNLESS CLEAN-OUT OPENING IS PROVIDED AT BOTTOM OF CELLS TO BE FILLED. LOCATE CLEAN-OUT OPENINGS IN AREAS NOT EXPOSED TO VIEW.

UNLESS NOTED OTHERWISE EACH 8" MASONRY WALLS SHALL BE PARTIALLY REINFORCED MASONRY WALL CONSTRUCTION WITH #5 AT 48 INCH O.C. IN GROUT FILLED CELLS. ADD (1) #5 REINFORCING BAR EACH SIDE OF OPENINGS EXCEEDING 3 FEET.

PROVIDE REINFORCING BARS AT CORNERS, INTERSECTIONS, AND EACH SIDE OF OPENINGS. PROVIDE (2) REINFORCING BARS EACH SIDE OF OPENINGS OVER 4 FEET WIDE, AND AS SHOWN ON THE PLANS. PROVIDE HOOKED DOWELS INTO FOOTINGS AND STRUCTURE ABOVE AND/OR BELOW TO PROVIDE CONTINUITY. PROVIDE 5 GAUGE GALVANIZED HORIZONTAL JOINT REINFORCING (DURAL) WALL, OR ENGINEER-APPROVED EQUAL, AT 16" O.C. REINFORCING LAPS TO BE 48 BAR DIAMETERS.

DO NOT PLACE CONDUITS, PIPES, ETC. IN CELLS WITH VERTICAL REINFORCING. DO NOT RUN CONDUITS, PIPES, ETC. HORIZONTALLY IN CMU WALLS PARALLEL TO LENGTH OF WALL. WHERE MASONRY WALLS ABUT CONCRETE COLUMNS TO BE PLACED PRIOR TO CREATION OF MASONRY WALLS, PROVIDE DOWEL SLOTS BETWEEN COLUMN AND WALLS AND GROUT THE CMU CELL CONTAINING THE DOWEL ANCHORS. OTHERWISE, EXTEND CMU HORIZONTAL JOINT REINFORCING THROUGH CONCRETE COLUMN.

CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT A SPACING NOT TO EXCEED THREE TIMES WALL HEIGHT OR 30'-0" MAXIMUM. COORDINATE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR REINFORCING REQUIREMENTS AT CONTROL JOINTS.

USE METAL LATH OR WIRE SCREEN FOR CAVITY CAPS. SHEET METAL, FELT, BUILDING PAPER, OR LIKE MATERIALS ARE PROHIBITED.

PRECAST CONCRETE LINTELS, UNLESS INDICATED OTHERWISE, ALL LINTELS TO BE 1/4" TYPE PRECAST CONCRETE UNITS EQUAL TO UNITS MANUFACTURED BY CAST-CRETE CORP. AND PRESTRESSED (AND ADDITIONALLY REINFORCED AS REQUIRED) IN ACCORDANCE WITH CAST-CRETE CORP. "DESIGN MANUAL," LATEST EDITION, FOR THE SPAN AND LOADING CONDITION RELATIVE TO LINTEL LOCATION.

LINTEL SIZE IF NOT SHOWN ON THE PLANS SHALL BE 8"-18 FOR OPENINGS LESS THAN 10 FEET AND 8"-18/16" FOR OPENINGS 10 FEET TO 20 FEET. PROVIDE 8" MINIMUM BEARING FOR LINTELS UNLESS NOTED OTHERWISE.

WOOD FRAMING CONNECTORS, FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY (OR APPROVE EQUIVALENT) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HJ SIZE 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.

**PRE-FABRICATED WOOD TRUSSES:** DESIGN AND MANUFACTURE IN ACCORDANCE WITH TPI "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES".

TRUSS DESIGNER TO DETERMINE AND ESTABLISH HEIGHT, LENGTH, LOCATION, SPACING, REQUIRED BEARING WIDTH, REACTIONS, AND REQUIRED PERMANENT BRACING FOR EACH TRUSS. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ITEMS INCLUDING AIR HANDLER LOCATIONS, MECHANICAL ROOMS AND DUCT SPACE AND ROUTING.

TRUSS BOTTOM CHORD IS NOT BRACED BY CEILING. DESIGN BOTTOM CHORD TO BE UNBRACED OR PROVIDE BRACING.

PRIOR TO FABRICATION, SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS, SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER, SUBSTANTIATING ALL STRENGTH AND SERVICEABILITY CRITERIA. DESIGN LOADS SHALL BE CLEARLY INDICATED ON SHOP DRAWINGS AND LOADS IMPOSED UPON THE STRUCTURAL SYSTEM.

TRUSSES SHALL BE DESIGNED FOR A 200 LB POINT LOAD AT ANY LOCATION. TRUSS LOADING SHALL BE AS FOLLOWS, IN ADDITION TO LOADS SHOWN ON THE DRAWINGS:

**ROOF TRUSS LOADING:**  
TOP CHORD LIVE LOAD 20 PSF OR WIND UPLIFT LOAD ON DRAWINGS  
TOP CHORD DEAD LOAD 15 PSF  
BOTTOM CHORD LIVE LOAD 10 PSF  
BOTTOM CHORD DEAD LOAD 5 PSF

**PLYWOOD:** PLYWOOD PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR APPROPRIATE PERFORMANCE STANDARDS, UNLESS OTHERWISE NOTED. PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS.

PLYWOOD INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

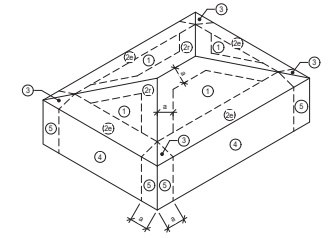
ALL SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. STAGGER ENDS OF ADJACENT PANELS 4'-0".

ROOF SHEATHING SHALL BE #18 PLYWOOD, BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH #8 RINGSHANK NAILS SPACED 4'-0" ON CENTER ALONG THE PANEL EDGES AND AT 6" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

SUB-FLOORING SHEATHING SHALL BE 3/4" PLYWOOD, UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH #6 NAILS SPACED 4'-0" ON CENTER ALONG THE PANEL EDGES AND AT 6" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

EXTERIOR WALL SHEATHING SHALL BE 1/2" PLYWOOD, BLOCKED WITH 3x FRAMING AT ALL PANEL EDGES. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH #8 NAILS SPACED 4'-0" ON CENTER ALONG THE PANEL EDGES AND AT 6" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE ON DRAWINGS.

**SOFFITS:** SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES FOR WALLS SPECIFIED IN THE COMPONENT AND CLADDING CHART. SOFFITS SHALL BE CONSTRUCTED WITH 2x4 AT 24" OC WITH 1/2" PLYWOOD WITH #8 @ 4" OC EDGES AND 0" OC FIELD PER FLORIDA PRODUCT APPROVAL.



**HIP ROOF**

ZONE	ALLOWABLE COMPONENT & CLADDING WIND PRESSURES (PSF)				
	10 SF	50 SF	100 SF		
INTERIOR	1	29 / 49	20 / 43	16 / 38	
	EDGE	2a	29 / 49	20 / 43	16 / 47
ROOF	2	29 / 49	20 / 43	16 / 37	
	CORNER	3	29 / 49	20 / 49	16 / 52
WALL	INTERIOR	4	39 / 42	30 / 38	33 / 36
	CORNER	5	39 / 42	30 / 44	33 / 40

FIG. 3

### COMPONENT & CLADDING DIAGRAM

SCALE: NOT TO SCALE

Shawn Anderson  
Professional Engineer  
No. 53515  
State of Florida  
Professional Seal

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Project Phase:  
**PERMIT DRAWINGS**  
04-18-2023

Project #: 2124.01  
Project Issue: 04-18-2023  
Sheet Issue: 04-18-2023

No. Date Revision


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**GENERAL NOTES SHEET**

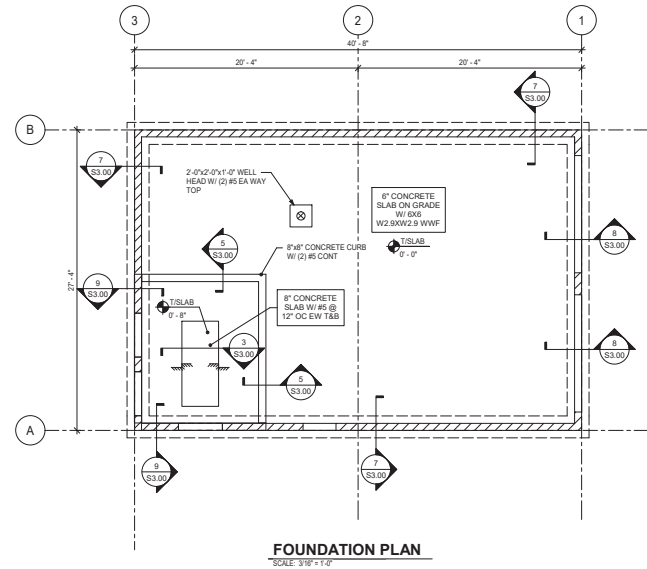
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# Exhibit D - Structural\_W408\_S&S

### FOUNDATION PLAN NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS, SLOPES, STEPS, AND DRAIN LOCATIONS IN FLOOR SLABS.
2. REFER TO GEOTECHNICAL RECOMMENDATIONS FOR SUBGRADE COMPACTION AND DRAINAGE REQUIREMENTS.
3. DO NOT SCALE DRAWINGS. VERIFY COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
4. VERIFY COORDINATE THE LOCATION OF ALL UNDERGROUND PIPING WITH THE FOUNDATION.
5. VERIFY COORDINATE EDGE OF SLAB DETAILS AT EXTERIOR DOORS, SILL HEIGHTS AND DETAILS OF WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.
6. FX INDICATES FOOTING TYPE, REFER TO FOOTING SCHEDULE ON THIS SHEET. X-X' INDICATES TOP OF FOOTING ELEVATION, -1'-4" UNLESS NOTED OTHERWISE.
7.  INDICATES 8" CMU WALLS W/ #5 VERTICALS AT 32" OC MAX. AND AT CORNERS, INTERSECTIONS AND BOTH SIDES OF OPENINGS, UNLESS NOTED OTHERWISE.

WALL FOUNDATION SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCEMENT	COMMENTS
F20W	12'-0"	1'-0"	(3) #5 CONT. BOT	

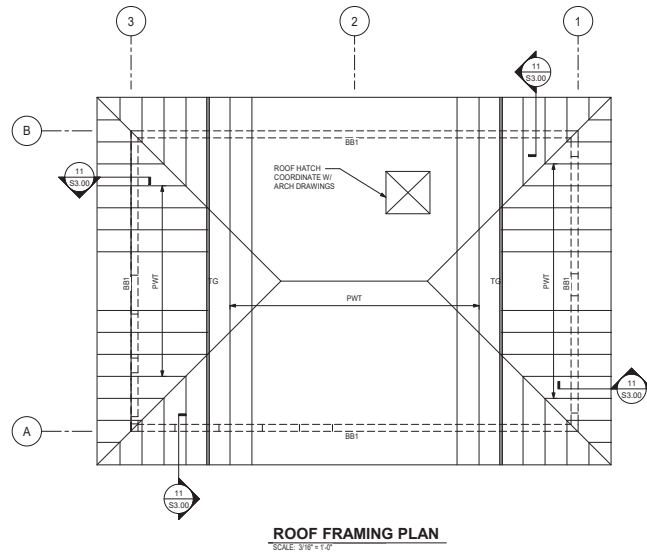


**FOUNDATION PLAN**  
SCALE: 3/16" = 1'-0"

### ROOF FRAMING PLAN NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND ACCESS HATCH LOCATIONS.
2. COORDINATE LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS NOT SHOWN ON PLAN.
3. BK INDICATES CONCRETE BEAM TYPE, REFER TO CONCRETE BEAM SCHEDULE ON THIS SHEET.
4. TX-X' INDICATES TOP OF BEAM ELEVATION, 14'-0" UNLESS NOTED OTHERWISE.
5. PWT INDICATES PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" OC. PROVIDE 5/8" PLYWOOD WITH 10d RINGSHANK NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.
6. TG INDICATES PRE-ENGINEERED WOOD TRUSS GRIEDER.

CONCRETE BEAM SCHEDULE							
MARK	WIDTH	DEPTH	REINFORCEMENT			STIRRUPS	COMMENTS
			TOP	MID	BOT		
BB1	1'-5 1/2"	1'-4"	(2) #5		(2) #5		(2) COURSE MASONRY BOND BEAM



**ROOF FRAMING PLAN**  
SCALE: 3/16" = 1'-0"



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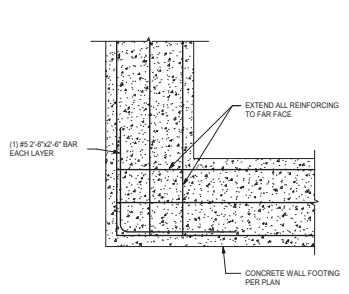
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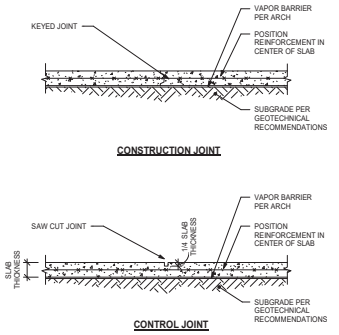
# Exhibit D - Structural\_W408\_S&S

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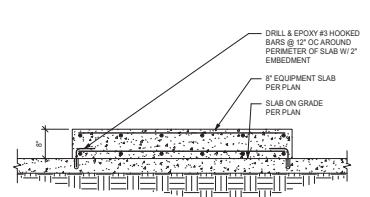
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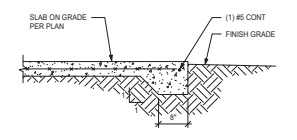
**1 TYPICAL FOOTING CORNER**  
SCALE: NOT TO SCALE



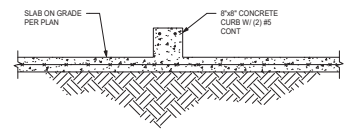
**2 TYPICAL SLAB ON GRADE JOINTS**  
SCALE: NOT TO SCALE



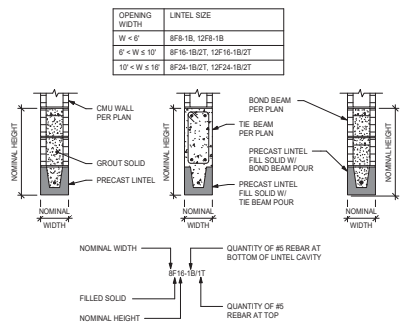
**3 EQUIPMENT SLAB DETAIL**  
SCALE: 3/4" = 1'-0"



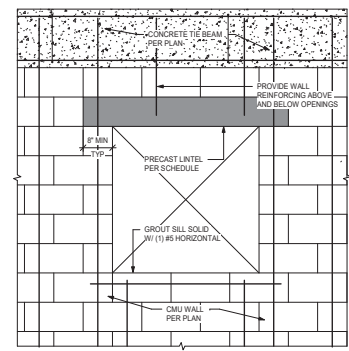
**4 THICKENED SLAB EDGE**  
SCALE: 3/4" = 1'-0"



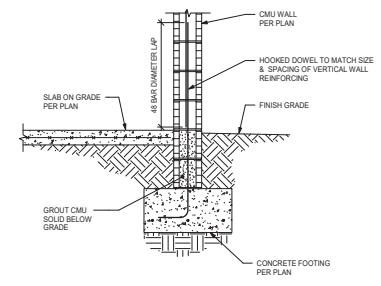
**5 CONCRETE CURB DETAIL**  
SCALE: 3/4" = 1'-0"



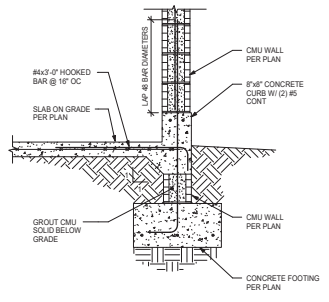
**6 TYPICAL CMU WALL OPENING & PRECAST LINTEL SCHEDULE**  
SCALE: NOT TO SCALE



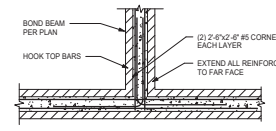
**7 CMU STEMWALL FOOTING**  
SCALE: 3/4" = 1'-0"



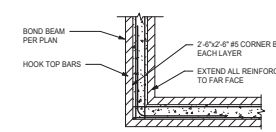
**8 STEMWALL AT DOOR THRESHOLD**  
SCALE: 3/4" = 1'-0"



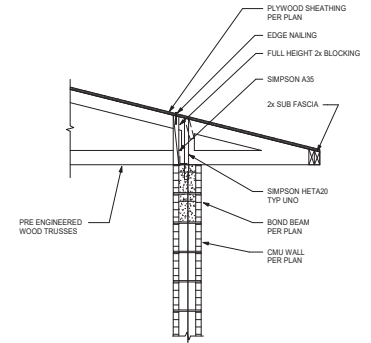
**9 STEMWALL FOOTING WITH CURB**  
SCALE: 3/4" = 1'-0"



**10 TYPICAL BEAM INTERSECTION**  
SCALE: NOT TO SCALE



**11 EXTERIOR TRUSS BEARING**  
SCALE: NOT TO SCALE



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Project Phase:  
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**DETAILS**

Sheet No.  
**\$3.00**