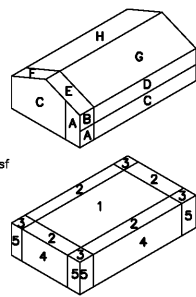


STRUCTURAL NOTES

BASIS OF DESIGN
 FBC 2017 6th EDITION
 ASCE 7-10

DESIGN LOADS

- DL1. LIVE LOADS**
 a. FIRST FLOOR 100 psf
 b. TYPICAL FLOOR 40 psf
 c. CORRIDORS SERVING ROOMS 40 psf
 d. MECHANICAL ROOMS 40 psf
 EQUIPMENT WEIGHT NOT LESS THAN 125 psf
- DL2. ROOF** 20 psf
- DL3. GROUND SNOW LOAD** 10 psf
 a. SNOW EXPOSURE FACTOR Ce 0.9
 b. THERMAL FACTOR Ct 1.0
 c. SNOW IMPORTANCE FACTOR I 1.0
 d. FLAT ROOF SNOW LOAD $0.7pgCeCtI$ 6.3 psf
- DL4. WIND LOAD**
 a. WIND SPEED 120 mph
 b. WIND SPEED 155 mph ULTIMATE
 c. WIND IMPORTANCE FACTOR 1.00
 d. RISK CATEGORY II
 e. WIND EXPOSURE C
 f. INTERNAL PRESSURE COEFFICIENT - ASD
 ZONE A 35.6 psf
 ZONE B -18.6 psf
 ZONE C 23.6 psf
 ZONE D -10.9 psf
 ZONE E -42.8 psf
 ZONE F -24.4 psf
 ZONE G 29.8 psf
 ZONE H -18.9 psf
- OVERHANG**
 ZONE Eoh -60.0 psf Goh -47.0 psf
 PARAPET LOAD -68.5 psf
- g. COMPONENTS AND CLADDING**
 ZONE 1 16.4 psf - 40.5 psf
 ZONE 2 16.4 psf - 68.0 psf
 ZONE 3 16.4 psf - 102.2 psf
 ZONE 4 40.5 psf - 43.9 psf
 ZONE 5 40.5 psf - 54.2 psf
 ROOF OVERHANG ZONE 2 -58.3 psf
 ZONE 3 -96.1 psf
- h. WIND BASE SHEAR**
 Vult= 200 kips Vyult = 396 kips
 Vxasd= 120 kips Vyasd = 238 kips
- DL5. SEISMIC DESIGN DATA**
 a. SEISMIC IMPORTANCE FACTOR 1.00
 b. MAPPED SPECTRAL RESPONSE ACCELERATION Sa=0.089 S1=0.0531 D
 c. SITE CLASS D
 d. SPECTRAL RESPONSE COEFFICIENTS Sds=0.094 Sd1=0.085 B
 e. SEISMIC DESIGN CATEGORY B
 f. BASIC SEISMIC FORCE RESISTING SYSTEM LIGHT FRAMED WALLS SHEATHED WITH WOOD
 g. DESIGN BASE SHEAR 22 KIPS
 h. RESPONSE MODIFICATION FACTORS R=6.5
 i. SEISMIC RESPONSE COEFFICIENT Cd=4.0
 j. ANALYSIS PROCEDURE --- EQUIVALENT FORCE METHOD
- DL6. DESIGN DEAD LOADS**
 a. FLOOR DEAD LOAD = 5 psf
 WOOD FRAMING = 2 psf
 3/4" T&G PLYWOOD = 2 psf
 3/8" GYPSUM TOPPING = 7 psf
 5/8" DRYWALL CEILING = 2 psf
 WALLS = 8 psf
 MECHANICAL DUCTS & PIPING = 4 psf
 TOTAL DEAD LOAD = 28 psf
 b. ROOF DEAD LOAD = 5 psf
 WOOD FRAMING = 2 psf
 5/8" PLYWOOD = 2 psf
 5/8" DRYWALL CEILING = 2 psf
 MECHANICAL DUCTS & LIGHTING = 4 psf
 6" INSULATION AVERAGE = 2 psf
 ROOFING = 10 psf
 TOTAL DEAD LOAD = 25 psf



STRUCTURAL CONCRETE

- CO1. CONCRETE SHALL BE IN ACCORDANCE WITH ACI MANUAL 315 AND STANDARD 318. CONCRETE SHALL BE OF REGULAR AGGREGATE AND SHALL HAVE DESIGN COMPRESSIVE STRESS AT 28 DAYS AS FOLLOWS:**
 a. f'c = 3,000 psi FOR FOUNDATIONS AND FOUNDATION WALLS.
 b. f'c = 3,000 psi FOR SLAB ON GRADE
 c. f'c = 3,500 psi AIR ENTRAINED FOR EXTERIOR CONCRETE
 d. f'c = 4,000 psi FOR ELEVATED SLABS
- CO2. PROVIDE AIR ENTRAINED CONCRETE FOR CONCRETE EXPOSED TO WEATHER.**
- CO3. SLAB ON GRADE**
 a. PROVIDE A 4" CONCRETE SLAB WITH 6x6 W1.4xW1.4 WWF OVER 8 MIL POLY VAPOR RETARDER OVER 4" OF DRAINAGE FILL.
 b. DRAINAGE FILL SHALL BE WASHED SAND, WASHED #57 STONE, SCREENINGS, CRUSHER RUN OR OTHER MATERIAL APPROVED BY THE SOIL ENGINEER.
- CO4. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS, GROOVES, ETC. AND FOR LOCATIONS OF SLEEVED AND INSERTS TO BE CAST IN CONCRETE SLABS AND FLOORS.**
- CO5. FOR SIZE, NUMBER AND LOCATIONS OF ALL SLAB OPENINGS AND MECHANICAL HOUSEKEEPING PADS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE MECHANICAL HOUSEKEEPING PADS AS REQUIRED AND REINFORCE WITH #4@12" EACH WAY U.N.O. DOWEL PADS INTO SUPPORTING SLAB.**
- CO6. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. DETAILING SHALL BE IN ACCORDANCE WITH ACI MANUAL 315 AND STANDARD 318. LAP SPLICES IN CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 12 OF ACI 318-08. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS TABULATED BELOW UNLESS OTHERWISE NOTED:**
 a. WALLS 1 1/2"
 b. FOUNDATIONS 2" FOR FORMED CONCRETE
 c. 3" WHERE CONCRETE IS CAST AGAINST GROUND
- CO7. MINIMUM SPLICE & EMBEDMENT LENGTHS**

BAR SIZE	MIN EMBEDMENT, (IN)		STD HOOK ALL BARS
	MIN LAP (IN) OTHER-TOP	STRAIGHT OTHER-TOP	
#3	12 - 14	12 - 14	6
#4	15 - 19	15 - 19	7
#5	18 - 24	18 - 23	9
#6	22 - 28	22 - 28	10
#7	25 - 33	25 - 33	12
#8	29 - 37	29 - 37	14

STRUCTURAL STEEL

- ST1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE AISC 360-10:**
 a. ALL STRUCTURAL A992
 b. MISC STEEL, CHANNELS, ANGLES, PLATES A36
 c. STEEL TUBING ASTM A500 GRADE B
 d. SHOP AND FIELD WELDS E70XX ELECTRODES
 e. BOLTS (3/4" DIAMETER MIN) A325 HIGH STRENGTH BEARING TYPE CONNECTIONS - SNUG TIGHT.
 f. ANCHOR BOLTS F1554 GR. 36
 g. COLUMN BASE PLATES 3/4" BENT UNO 5" PROJECTION + 9" EMBED + 3" BEND
 h. WOOD SILL PLATES LOAD BEARING & SHEARWALLS 5" PROJECTION + 7" EMBED + 3" BEND WITH 1/4"x3"x3" PLATE WASHER
 i. NON-LOAD BEARING 5/8" BENT UNO 5" PROJECTION + 7" EMBED + 3" BEND WITH STANDARD WASHER
- ST2. CONTRACTOR MAY USE EXPANSION BOLTS OR EPOXY BOLTS IN LIEU OF ANCHOR BOLTS FOR WOOD SILL PLATES. USE 5/8" EXPANSION BOLTS W/ 4" EMBED W/ 1/4"x3"x3" PLATE WASHER AT SAME SPACING.**
- ST3. CONTRACTOR MAY EPOXY ALL THREAD BOLTS FOR COLUMN BASE PLATE ANCHOR BOLTS. EMBEDMENT TO BE 9".**
- ST4. EPOXY SHALL BE HILTI HY-200, SIMPSON STRONG TIE ET-HP OR SIMPSON STRONG TIE SET OR PRE-APPROVED EQUAL.**
- ST5. GROUT UNDER BASE AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC.**
- ST6. ANCHOR BOLTS, BASE PLATES AND COLUMNS SHALL BE PROTECTED FROM DIRECT CONTACT W/ THE GROUND. COAT HEAVILY AND VOID FREE WITH ASPHALTIC MASTIC.**
- ST7. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS.**
- ST8. HOLES SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR APPROVED BY THE ENGINEER.**
- ST9. PRIME STRUCTURAL AND MISC. STEEL WITH MANUFACTURERS STANDARD IRON OXIDE PRIMER --- COLOR GRAY. PRIMER SHALL BE COMPATIBLE WITH FINISH COAT OF PAINT WHEN PROVIDED.**
- ST10. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION".**
- ST11. HSS TUBES SHALL HAVE ONE-QUARTER INCH END PLATES.**
- ST12. FIELD TORCH CUTTING OF COLUMN BASE PLATES FOR MISS LOCATED ANCHOR BOLTS IS NOT ALLOWED. HOLES CAN BE DRILLED IN THE PROPER LOCATIONS OR NEW STRAIGHT ANCHOR BOLTS CAN BE DRILLED AND EPOXIED INTO PLACE SEE NOTE ST3 ABOVE.**
- ST13. WHERE ANCHOR BOLT EXTENSION IS INSUFFICIENT TO FULLY ENGAGE THE BOLT THREADS THE ANCHOR BOLT MAY BE WELDED TO THE BASE PLATE WITH 1/4" WELD ALL ROUND.**

WOOD FRAMING

- WD1. WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.**
- WD2. STRUCTURAL LUMBER SHALL BE SOUTHERN YELLOW PINE NO.2 OR PRE-APPROVED EQUAL FLOOR SHEATHING TO BE GLUED (PL400) AND FASTENED TO FRAMING LUMBER. FINGER JOINTED MEMBERS ARE ALLOWED IF MATERIAL PROPERTIES ARE EQUAL OR BETTER.**
- WD3. HOLES IN FRAMING (JOISTS AND WALL STUDS) SHALL NOT EXCEED 1/3 TO DEPTH OF THE MATERIAL AND LOCATED IN THE MIDDLE THIRD. HOLES SHALL BE AT LEAST 2" APART. NOTCHES IN FRAMING LUMBER SHALL NOT EXCEED 1/6 OF THE DEPTH NOR LONGER THAN 1/3 OF THE DEPTH AND SHALL NEVER BE LOCATED IN THE MIDDLE THIRD OF FRAMING MEMBERS. NOTCHES AT THE END OF FRAMING MEMBERS SHALL NOT EXCEED 1/4 THE DEPTH.**
- WD4. FRAMING LUMBER FRAMING SHALL BEAR A MINIMUM OF 1 1/2" AND HAVE SOLID BLOCKING BETWEEN FRAMING.**
- WD5. PROVIDE SOLID BLOCKING IN FLOOR AND ROOF FRAMING AS REQUIRED BY CODE.**
- WD6. ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.**
- WD7. ALL METAL CONNECTORS, TIES, AND STRAPS IN CONTACT WITH CONCRETE, MASONRY OR TREATED LUMBER SHALL BE G185 HOT DIPPED GALVANIZED.**
- WD8. PROVIDE SOLID HORIZONTAL BLOCKING AT SHEATHING JOINTS IN EXTERIOR WALLS.**
- WD9. PROVIDE SOLID HORIZONTAL BLOCKING FOR ALL FIRST FLOOR BEARING AND EXTERIOR WALLS (1st TO ROOF) AT 48" o.c.**

WOOD I-JOIST FRAMING

- WI1. ENGINEERED WOOD PRODUCTS (WOOD I-JOISTS & LAMINATED VENEER LUMBER - LVL SHOWN ON THE DRAWINGS) MANUFACTURED BY AN APPROVE MANUFACTURER FOR THE DESIGN USES INDICATED. WHETHER SHOWN OR NOT, PROVIDE THE DESIGN ITEMS CHECKS, CLIPS, STIFFENERS, STRAPS, ETC. DESIGNER OF THE MANUFACTURER FOR A COMPLETE SYSTEM REFER TO ARCHITECTURAL DRAWINGS FOR RATING REQUIREMENTS AND PROVIDE LISTS ACCORDINGLY. PROVIDE I-JOISTS THAT COMPLY WITH UL570 FOR MINIMUM JOIST AND WEB SIZES FOR RATED ASSEMBLY. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND USE.**
- WI2. BEARING CONNECTORS, ANCHORS, AND HANGERS SHOWN ON THE DRAWINGS ARE PRODUCTS OF SIMPSON STRONG-TIE AND ARE DESIGNATED BY MANUFACTURER'S STANDARD PRODUCT NUMBERS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION AND USE.**
- WI3. CUTTING I-JOISTS ABOVE DEMISING WALLS OR CORRIDOR WALLS AND WHERE JOISTS ARE IN NON-BENDING INSTALLATIONS IS PERMITTED PROVIDED THE DRAG STOPPING IF REQUIRED IS RESTORED.**
- WI4. FLOOR SHEATHING TO BE GLUED (PL400) AND FASTENED TO I-JOIST.**
- WI5. DEFLECTION CRITERIA L/480 LIVE LOAD, L/360 TOTAL LOAD.**
- WI6. MANDATORY PRE-CONSTRUCTION MEETING - PRIOR TO I-JOIST INSTALLATION THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH ALL TRADES TO COORDINATE PLACEMENT OF I-JOISTS TO AVOID INTERFERENCES AND LIMITATIONS ON CUTTING HOLES IN JOISTS WEBS. MINUTES OF THE MEETING SHALL BE SUBMITTED TO THE EOR.**

WOOD TRUSS FRAMING

- WT1. WOOD TRUSS FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH TPI DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES.**
- WT2. LIMIT TOTAL LOAD DEFLECTION TO L/360.**
- WT3. FLOOR SHEATHING TO BE GLUED (PL400) AND FASTENED TO FLOOR TRUSSES.**
- WT4. MANDATORY PRE-CONSTRUCTION MEETING - PRIOR TO TRUSS INSTALLATION THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH ALL TRADES TO COORDINATE PLACEMENT OF TRUSSES TO AVOID INTERFERENCES. MINUTES OF THE MEETING SHALL BE SUBMITTED TO THE EOR.**

GENERAL

- GN1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE WITH ARCHITECTURAL AND OTHER TRADE DRAWINGS.**
- GN2. UNLESS OTHERWISE SHOWN, ALL TYPICAL DETAILS (WHERE APPLICABLE) SHALL BE USED.**
- GN3. THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS FOR THE LIVE LOADS INDICATED IN THE DESIGN LOADS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.**
- GN4. WATERPROOFING, FLASHING, CAULKING AND FIREPROOFING REQUIREMENTS ARE NOT THE RESPONSIBILITY OF THESE STRUCTURAL DRAWINGS. ANY REFERENCE OR NOTES RELATED TO THESE MATERIALS ARE FOR INFORMATION ONLY AND THE GENERAL CONTRACTOR SHALL REFER TO OTHER PLANS AND SPECIFICATIONS FOR THESE MATERIALS.**

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SUBMITTALS

- SB1. SUBMITTALS SHALL BE PROVIDED THROUGH THE ARCHITECT IN ACCORDANCE WITH THE GENERAL CONDITIONS.**
- SB2. GENERAL CONTRACTOR TO SCHEDULE SUBMITTALS TO ALLOW TIME FOR REVIEW WITHOUT IMPEDING CONSTRUCTION. SCHEDULE A MINIMUM OF FIFTEEN CALENDAR DAYS FOR THE RETURN OF SUBMITTALS.**
- SB3. SHOP DRAWINGS - THE GENERAL CONTRACTORS MEANS AND METHODS OF FABRICATING SHALL BE INDICATED ON THESE STRUCTURAL DRAWINGS. THE DRAWINGS ARE NOT SUBJECT TO APPROVAL BY THE EOR. THE SHOP DRAWINGS LISTED BELOW ARE SUBJECT TO REVIEW BY THE EOR.**
- SB4. REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THE REVIEW DO NOT RELIEVE THE GENERAL CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES AND PROCEDURES OF THE CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.**
- SB5. REVIEW OF SHOP DRAWINGS DOES NOT WARRANT OR REPRESENT THAT THE INFORMATION WITHIN THE SUBMITTAL IS EITHER ACCURATE OR COMPLETE. SOLE RESPONSIBILITY FOR CORRECT DESIGN, DETAILS, DIMENSIONS AND QUANTITIES SHALL REMAIN WITH THE GENERAL CONTRACTOR.**
- SB6. CHANGES/SUBSTITUTIONS SHOWN ON SHOP DRAWINGS AND SUBMITTED TO AND REVIEWED BY THE EOR REMAIN NON-COMPLIANT WITH THE CONTRACT DOCUMENTS. CHANGES/SUBSTITUTIONS TO THE CONTRACT DOCUMENTS MUST BE DOCUMENTED SEPARATELY FROM SHOP DRAWINGS.**
- SB7. REQUIRED SUBMITTALS - (SUBMITTALS OTHER THAN THOSE LISTED SHALL NOT BE REVIEWED):**
- SB8. SUBMIT FOR REVIEW:**
 a. CONCRETE DESIGN MIX - EACH TYPE
 b. MORTAR DESIGN MIX - EACH TYPE
 c. GROUT MIX - COURSE AND FINE
 d. STRUCTURAL STEEL ERECTION DRAWINGS
 e. WOOD TRUSS
 e1. TRUSS LAYOUT INDICATING DESIGN LOADS
 e2. STATEMENT OF DEFLECTION CRITERIA COMPLIANCE
 e3. STATEMENT THAT TRUSS LAYOUT HAS BEEN COORDINATED WITH PLUMBING AND HVAC FLOOR/ROOF PENETRATIONS
 f. WOOD I-JOIST
 f1. JOIST LAYOUT INDICATING DESIGN LOADS
 f2. STATEMENT OF DEFLECTION CRITERIA COMPLIANCE
 f3. STATEMENT THAT I-JOIST LAYOUT HAS BEEN COORDINATED WITH PLUMBING AND HVAC FLOOR/ROOF PENETRATIONS

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 PENSACOLA, FL 32526

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DRAWING TITLE:
STRUCTURAL NOTES

SCALE:
 PROJECT NO: 037902
 DATE: 08-06-18
 DRAWN BY: JVS
 CHECKED BY: BSW
 SHEET NO:
S001

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