

Order Plans

**A. GENERAL**

- ANY CHANGES MADE TO THE DESIGN IDENTIFIED ON THESE DRAWINGS AND/OR ASSOCIATED SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER/ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO MAKING ANY MODIFICATIONS TO THE PROJECT. ANY LIABILITY AS A RESULT OF DESIGN MODIFICATIONS, AS WELL AS ANY COSTS ASSOCIATED WITH SUCH MODIFICATIONS, MADE WITHOUT THE WRITTEN APPROVAL OF ENGINEER/ARCHITECT OF RECORD SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
- THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL OF RECORD.
- OPENINGS 2'-4" AND LESS ON A BEAM ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOADS IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS.
- DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL INFORM THE PROFESSIONAL OF RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL OF RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE PROFESSIONAL OF RECORD HAS SPECIFICALLY INFORMED THE PROFESSIONAL OF RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL OF RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- UNLESS NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY WERE CHECKED, BEAR THE INITIALS OF THE CHECKER AND ARE STAMPED "APPROVED" BY THE GENERAL CONTRACTOR.

**B. COVERING CODE - FLORIDA BUILDING CODE 8th EDITION (D.F.B. BC) - ASSE-17 WITH VARIATIONS/AMENDMENTS**

- DESIGN LOADS:
  - IMPORTANCE FACTORS: SNOW  $I = 1.0$   
SEISMIC  $I = 1.0$
  - LIVE LOADS: ROOF  $+20$  PSF  
FLOOR  $+100$  PSF  
LIVE LOAD REDUCTIONS  $+N/A$
  - WIND LOAD: U/LIMITED WIND SPEED  $V_{ult} = 153$  MPH  
EXPOSURE CATEGORY  $C$

DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING (AS TAB 1)

LOCATION	ZONE	WIND SPEED (MPH)	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
ROOF	1	10	25.2	42.8
	2	10	25.2	103.9
WALLS	4	10	59.7	61.4
	5	10	59.7	75.4
OVERHANGS	2	10	-	89.4
	3	10	-	89.4
PARAPET (INTERIOR)	4	10	146.5	-
	5	10	146.5	-
PARAPET (EXTERIOR)	4	10	200.8	-
	5	10	200.8	-
	3	10	-	119.7

\*ZONE 1 INCLUDES THOSE ROOF ELEMENTS LOCATED OUTSIDE OF 9'-4" OF A FLOOR EDGE.  
ZONE 2 INCLUDES THOSE ROOF ELEMENTS LOCATED WITHIN 9'-4" OF A ROOF EDGE, NOT WITHIN 9'-4" OF A BUILDING CORNER.  
ZONE 3 INCLUDES THOSE ROOF ELEMENTS LOCATED WITHIN 9'-4" OF A ROOF EDGE AND WITHIN 9'-4" OF A BUILDING CORNER.  
ZONE 4 INCLUDES THOSE WALL ELEMENTS LOCATED OUTSIDE OF 9'-4" OF A BUILDING CORNER.  
ZONE 5 INCLUDES THOSE WALL ELEMENTS LOCATED WITHIN 9'-4" OF A BUILDING CORNER.

- SEISMIC DESIGN CATEGORY: **A**
- RISK CATEGORY: **A**
- SPECTRAL RESPONSE ACCELERATION:  $S_s = 0.050g$   
 $S_1 = 0.023g$   
 $S_{0.2} = 0.050g$   
 $S_{0.1} = 0.020g$
- SITE CLASSIFICATION: **D**
- BASIC STRUCTURAL SYSTEM: ORDINARY STEEL  
CONCENTRICALLY BRACED FRAMES  
E. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- LATERAL DESIGN CONTROL: WIND

**EXISTING CONSTRUCTION**

- EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS SUPPLIED BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT/ENGINEER OF THE EXCEPTIONS BEFORE PROCEEDING WITH THE WORK.
- THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL, INTERFERE WITH THE NEW WORK, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY, AND PRIOR APPROVAL OBTAINED, BEFORE REMOVAL OF THE MEMBER.
- THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION WHEREVER EXISTING SUPPORTS ARE REMOVED TO ALLOW INSTALLATION OF THE NEW WORK. THE EXISTING CONSTRUCTION SHALL BE CONNECTED AND/OR EMBEDDED INTO THE NEW CONSTRUCTION AS SHOWN OR SPECIFIED.

**C. REINFORCED CONCRETE**

- MATERIALS:
  - SPECIFICATIONS: IN GENERAL, COMPLY WITH THE LATEST REVISION OF ACI 301 "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE."
  - CONCRETE REQUIREMENTS: UNLESS NOTED, GEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C33, MINIMUM REQUIRED.

CLASS	LOCATION	F <sub>c</sub> (PSI)	SPECIAL REQUIREMENTS
I	FOOTINGS, PIERS, INTERIOR SLABS ON GROUND, AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	3500	MAX. W/C R = 0.48
II	EXTERIOR SLABS ON GROUND, EXTERIOR WALLS, EXTERIOR CORNERS AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	4000	9% ± 1% ENTRAINED AIR, MAX. W/C R = 0.45
IV	BACKFILL BELOW FOOTINGS	CLSM (200 PSI)	
V	STAR PLAN FILL, P.C. TOPPING	3000	3/8" MAX. AGGREGATE

- ALL DEFORMED REINFORCING BARS:  $f_y = 60,000$  PSI, ASTM A615, GRADE 60. REINFORCING THAT IS WELDED SHALL BE WELDABLE TYPE, ASTM A706, GRADE 60. REINFORCING STEEL WELDING SHALL CONFORM TO AWS D1.4.
- WELDED WIRE REINFORCING (WWR): ASTM A185 (FLAT SHEETS ONLY).
- EXTERIOR SLABS ON GROUND AND ALL OTHER CONCRETE EXPOSED TO THE ELEMENTS SHALL BE AIR ENTRAINED. AIR ENTRAINING ADJUTIVES SHALL CONFORM TO ASTM C260. ("SPECIFICATION FOR ENTRAINING ADJUTIVES FOR CONCRETE").
- FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL TO THE FIELD OFFICE AT ALL TIMES.
- OPENINGS:
  - OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. COORDINATE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER APPLICABLE TRADES BEFORE PROCEEDING WITH WORK.
  - IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
  - PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2 FEET BEYOND OPENING IN EVERY DIRECTION, UNLESS NOTED. OPENINGS NOT EXCEEDING 16 INCHES X 16 INCHES MAY BE SUBJECTED TO WORKING THE REINFORCING STEEL AROUND THEM.
- CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, 3"
  - CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER: 1 1/2"
  - OTHERS: 2"
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 1 1/2"
- MISCELLANEOUS:
  - PROVIDE #4X4' DIAGONAL REINFORCING BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS OF SLABS ON GROUND.

**D. STRUCTURAL STEEL**

- THE STEEL FRAME AS DESIGNED IS A NON-Self-SUPPORTING STEEL FRAME AS DEFINED BY THE IBC CODE OF STANDARD PRACTICE. COORDINATE THE ERECTION WITH THE INSTALLATION OF OTHER BUILDING ELEMENTS REQUIRED FOR THE STRUCTURE'S STABILITY. THESE ELEMENTS INCLUDE SLABS, STEEL JOISTS, GIRDERS, BRACES, ETC.
- MATERIALS:
  - STRUCTURAL STEEL (EXCEPT WIDE FLANGE SHAPES): ASTM A36,  $F_y = 36$  KSI, UNLCO.
  - STRUCTURAL STEEL (WIDE FLANGE SHAPES): ASTM A992,  $F_y = 50$  KSI.
  - RECTANGULAR AND SQUARE HOLLOW STRUCTURAL SECTIONS: ASTM A600, GR. B,  $F_y = 46$  KSI OR ASTM 1088, GRADE 50 ( $F_y = 50$  KSI).
  - ROUND HOLLOW SECTIONS: ASTM A600, GR. B,  $F_y = 42$  KSI.
  - STRUCTURAL PIPES: ASTM A53, GR. B.
  - HIGH STRENGTH BOLTS: ASTM A325.
  - CORNER RODS: ASTM F1624, GR. 36.
  - ELECTRODES: AWS A5.1 OR A5.5 SERIES E70.
  - MECHANICAL ANCHORS: "HIT" W/ "K" BOLT "Z" (K8-"Z") OR APPROVED EQUAL.
  - WELDED HEADED STUDS: ASTM A108, GRADES 1010 THROUGH 1020, AND AWS D1.1 HEADED UNCOATED.
- SPECIFICATION, WELDING PERSONNEL AND PROCEDURES SHALL BE QUALIFIED PER AWS D1.1, UNLESS SPECIFICALLY SHOWN OTHERWISE. DESIGN, FABRICATION AND ERECTION TO BE COVERED BY:
  - ALSO SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
  - ALSO CODE OF STANDARD PRACTICE
  - STRUCTURAL WELDING CODE - AMERICAN WELDING SOCIETY (AWS) D1.1
  - SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
- CONNECTIONS:
  - FIELD CONNECTIONS TO BE BOLTED UNLESS NOTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED.
- GALVANIZING:
  - ALL SHELF ANGLES, L/ANGLES IN EXTERIOR WALLS, ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS, AND ALL ITEMS INDICATED ON THE DRAWINGS AS "GALVANIZED" SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. EXTERIOR STEEL EXPOSED TO THE ELEMENTS THAT IS TO BE FIELD WELDED SHALL BE COLD GALVANIZED. COLD GALVANIZING COMPOUND SHALL BE UL APPROVED AS EQUIVALENT TO HOT-DIP GALVANIZING AND SHALL BE APPLIED TO ENTIRE EXPOSED STEEL SURFACE WITHIN 24 HOURS OF FABRICATING. COLD GALVANIZING COMPOUND SHALL BE APPLIED WITH MANUFACTURER'S RECOMMENDATIONS.
- PAINT:
  - DO NOT PAINT STEEL OR ANCHOR RODS WHICH ARE GALVANIZED IN CONCRETE, OR ANY STEEL NOT EXPOSED TO WEATHER. FINISH STRUCTURE, EXCEPT COLUMNS AND PORTIONS OF WALLS, WITH TWO COATS OF PRIMER.
- MISCELLANEOUS:
  - ANCHOR RODS AT STEEL COLUMN BASES ARE NOT DESIGNED TO BE AND WILL NOT PROVIDE STABILITY TO THE STEEL FRAME DURING ERECTION. FOR SAFETY CONSIDERATIONS DURING ERECTION, SEE STRUCTURAL NOTE.
  - PROVIDE LUGS FOR OTHERS. IF CHANGING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
  - GROUND BEARING CAPACITY AND COLUMN BASE PLATES SHALL BE OBTAINED FROM THE ARCHITECT/ENGINEER. GROUND BEARING CAPACITY SHALL MEET ALL THE REQUIREMENTS OF CODE CR-102, OR MEET ALL REQUIREMENTS OF ASTM C1115 OR FULFILL THE USES OF STEELING PLATES AT COLUMN BASES. PROHIBITED GROUND BEARING CAPACITY SHALL BE OBTAINED FROM THE ARCHITECT/ENGINEER. GROUND BEARING CAPACITY SHALL MEET ALL THE REQUIREMENTS OF CODE CR-102, OR MEET ALL REQUIREMENTS OF ASTM C1115 OR FULFILL THE USES OF STEELING PLATES AT COLUMN BASES. PROHIBITED GROUND BEARING CAPACITY SHALL BE OBTAINED FROM THE ARCHITECT/ENGINEER.
  - STEELING PLATES SHALL BE INSTALLED AFTER THE STEEL IS PLUMBED. STEELING PLATES SHALL BE INSTALLED WITH A MINIMUM OF 3 INCHES OF CONCRETE.
  - PROVIDE SHOP WELDING ANCHORS OR TIES FOR ATTACHMENT OF MASONRY SPANCH. C. ON COLUMNS AND BEAMS.
  - FINISH END OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING WITH STEEL SHALL BE METAL DECK RIBS AT COLUMNS WHEN COLUMN SIZE PREVENTS STEEL FROM CONTINUING TO BEAM WHICH IS SUPPORTING DECK AT COLUMN LINE.

**E. COLD FORMED STEEL**

- SPECIFICATIONS AND STANDARDS:
  - ALL STRUCTURAL PROPERTIES OF LIGHT GAUGE METAL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG. NOMENCLATURE BASED ON BSMA.
  - ALL DESIGN SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
  - WELDING SHALL BE PERFORMED BY QUALIFIED OPERATORS BY AWS PROCEDURES.
- MATERIALS:
  - FRAMING MEMBERS 54 MILS AND HEAVIER: ASTM A1033, GRADE 50 (50 KSI), TYPE H.
  - FRAMING MEMBERS 43 MILS AND LIGHTER: ASTM A1033, GRADE 33 (33 KSI), TYPE H.
  - ALL FRAMING MEMBERS TO BE "C" SHAPED WITH A MINIMUM FLANGE WIDTH OF 1 5/8" UNLESS OTHERWISE NOTED.
  - ALL TRACKS, BRACING, CLIPS, FLAT STRAPS AND BENT PLATE MATERIALS,  $F_y = 50,000$  PSF MIN.
  - ALL FRAMING MEMBERS AND FASTENERS SHALL BE GALVANIZED.
  - WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60. ALL WELD SIZES SHALL DEVELOP AN EQUIVALENT THROAT THICKNESS OF THE THINNEST MEMBER.
- DESIGN FOR HORIZONTAL SEISMIC FORCE AND WIND PRESSURE AS SHOWN ON THE GENERAL STRUCTURAL NOTES.
- MAXIMUM HORIZONTAL DEFLECTION: L/500 AT WALLS, L/600 AT JAMB STUDS.

**F. SIGNIFICANT NOTES**

NO.	SPECIAL INSTRUCTION	REFERENCED STANDARD
1	PRE-CONSTRUCTION VERIFY THAT THE SITE SUBGRADE SOILS ARE PROPERLY PREPARED.	SECTION 05110, ENGINEERING REPORT 05110
2	INSTALLMENT 12" THICK OR GREATER GYPSUM BOARD USED ON JOINT THICKNESS.	SECTION 05110, ENGINEERING REPORT 05110
3	VALUATION OF IN-PLACE DENSITY OF COMPACTED FILL: 1" THICK OR GREATER.	SECTION 05110, ENGINEERING REPORT 05110
4	CONSTRUCTION PRELIMINARY FOR FOUNDATION SOILS, CONSTRUCTION OF FOUNDATION SHALL BE IN ACCORDANCE WITH THE FIELD OFFICE AT ALL TIMES.	SECTION 05110, ENGINEERING REPORT 05110
5	INSPECTION OF REINFORCING STEEL INCLUDING PROPOSED TENDONS AND PLACEMENT.	ACI 308.3S, 11.7.7
6	INSPECTION OF REINFORCING STEEL WELDING AS REQUIRED BELOW.	ACI 308.3S, 11.7.7
7	CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, 3" CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER: 1 1/2" OTHERS: 2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 1 1/2"	ACI 308.3S, 11.7.7
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51	INSPECTION OF REINFORCING STEEL WELDING AS REQUIRED BELOW.	ACI 308.3S, 11.7.7
52	CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, 3" CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER: 1 1/2" OTHERS: 2" CONCRETE NOT EXPOSED TO EARTH OR WEATHER: 1 1/2"	ACI 308.3S, 11.7.7
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