

DESIGN CRITERIA

DESIGN BASED THE PROVISIONS OF THE FLORIDA BUILDING CODE 2020 1TH EDITION.

A. DESIGN LOADS:
FLOOR LL+ 100 PSF

METAL BUILDING ROOF LL+ 20 PSF

METAL BUILDING COLLATERAL DL+ 5 PSF

B. WIND LOADS: ASCE 7-16
NOMINAL WIND SPEED V₅₀= 117 MPH
BASIC WIND SPEED V₁= 131 MPH
EXPOSURE CATEGORY = C
INTERNAL PRESSURE COEF = GCF1 = +0.18
KD (DIRECTIONALITY) = 1.0
RISK CATEGORY = III

GENERAL:

- ALL MATERIALS SHALL BE NEW OF GOOD QUALITY AND THE CONSTRUCTION SHALL BE PERFORMED BY WORKERS SKILLED IN THEIR TRADE AND IN ACCORDANCE WITH RECOMMENDED PRACTICE.
- NO DIMENSIONS SHALL BE SCALED FROM DRAWINGS.
- GENERAL CONTRACTOR SHALL CHECK, REVIEW AND VERIFY ALL PLANS, DIMENSIONS AND SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS SHALL BE NOTIFIED IN WRITING TO THE ENGINEER. ANY SUCH DISCREPANCIES, OMISSIONS, OR VARIATIONS NOT REPORTED DURING THE BIDDING PERIOD SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR WHO SHALL PERFORM THE CORRECTED WORK AS PER THE ENGINEER'S INSTRUCTIONS.

- THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS ISSUED BY THE ARCHITECT.
- STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DERESSED SLABS, SLOPES, DRAINS, OUTLETS, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT-ENGINEER BEFORE PROCEEDING WITH THE WORK.

- GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE FABRICATION OR ERECTION OF ANY STRUCTURAL SYSTEM.
- GENERAL CONTRACTOR SHALL RESTRICT AND PROPERLY ISOLATE ALL CONSTRUCTION EQUIPMENT AND LOADS FROM INDUCING OR TRANSMITTING VIBRATIONS TO THE STRUCTURE DURING CONSTRUCTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM CUTTING OR CLEANING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.

- WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT-ENGINEER. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT-ENGINEER.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH ANY REVISED DRAWINGS AND SPECS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATION SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.

- "BY OTHERS" DENOTES LABOR AND MATERIALS BY OTHERS, HOWEVER THE GENERAL CONTRACTOR SHALL PROVIDE COORDINATION AND FREE ACCESS FOR THE WORK.
- "NIC" DENOTES NOT IN CONTRACT. THE OWNER SHALL BE RESPONSIBLE FOR COORDINATING A TIME SCHEDULE OF THE BASE CONTRACT WITH THE "NIC" TRADES.

- TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.
- THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION, IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

- TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES OF EVERY KIND, INCLUDING WATER AND POWER, NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHOWN OR INDICATED ON THESE DRAWINGS. ALL MATERIAL SHALL BE NEW. MATERIALS AND WORKSMANSHIP SHALL OF GOOD QUALITY. ALL WORKMEN AND SUBCONTRACTORS SHALL BE SKILLED IN THEIR TRADE.

- THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLIGENCE.
- THE PREMISES SHALL BE KEPT FREE FROM ACCUMULATION OF WATER, MATERIALS, AND DEBRIS, AND AT THE END OF THE JOB THE CONTRACTOR SHALL REMOVE ALL RUBBISH, SURPLUS MATERIALS, AND TOOLS AND LEAVE THE BUILDING BROOM CLEAN.

- JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR. SPECIFIC INSPECTIONS AS REQUIRED BY THE LOCAL BUILDING DEPARTMENT SHALL BE UNDER A SEPARATE CONTRACT.
- SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

- THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH ONE COPY OF SHOP DRAWINGS A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT IMPLY THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.

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FOUNDATION AND CONCRETE SLAB ON FILL (CONT.):

- SAW CUT CONTROL JOINTS SHALL BE SAUED AS SOON AS THE CONCRETE IS HARD ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE.

- COLUMNS, BEAMS, AND WALLS OR ANY OTHER STRUCTURAL MEMBER PENETRATING SLABS ON FILL SHALL BE ISOLATED BY FME-MOLDED JOINT FILLER (1/2" THICK) COMPLYING WITH ASTM 0152, TYPE I.

- JOINTS SHALL BE SEALED WHERE INDICATED BY THE ARCHITECTURAL DRAWINGS AND FILLER AND SEALANT MATERIAL SHALL FOLLOW SPECS.

- SOIL UNDER NEW SLAB SHALL HAVE TREATMENT PROTECTION AGAINST SUBTERRANEAN TERMITES. A CERTIFICATE OF COMPLETION SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED COMPANY.

- FOUNDATION HAS BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF. GEOTECHNICAL REPORT BY ARDAMAN & ASSOCIATES, INC. DATED NOVEMBER 12, 2021. FOLLOW GEOTECHNICAL REPORT RECOMMENDATIONS AND SITE PREPARATION IN ALL ASPECTS.

- IN SIDEWALKS AND WALKWAYS, LOCATE ISOLATION JOINTS AT 20 FT O.C. MAXIMUM AND TOOL BETWEEN ISOLATION JOINTS IN EQUAL BAYS OF 5 FT OR LESS.

- MAXIMUM SPACING OF CONTROL JOINTS (1/2 SAWCUT JOINT OR CONSTRUCTION JOINT) SHALL BE AS SET IN THE TABLE BELOW OR AS NOTED ON PLANS. THE MORE STRINGENT SHALL APPLY. PATTERNS SHALL BE APPROXIMATELY SQUARE WITH A RATIO OF LONG SIDE TO SHORT SIDE NOT EXCEEDING 15 TO 1.

SLAB THICKNESS (IN.)	+ 3/4" OR LARGER AGGREGATE SPACING (FT.)
4	12
5	13
6	14
7 AND GREATER	15

CONCRETE:

- ALL REINFORCED CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14).
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301-14).

- CONCRETE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:
 - FOUNDATIONS _____ 3,000 PSI
 - SLAB ON FILL _____ 3,000 PSI
 - COLUMNS _____ 4,000 PSI
 - BEAMS _____ 4,000 PSI
 - STRUCTURAL SLAB _____ 4,000 PSI

- * ALL CONCRETE EXPOSED TO WEATHER SHALL BE MINIMUM OF 4,000 PSI WITH 0.4 WATER/CEMENT RATIO.

- MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.

- NO ADMIXTURE SHALL BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

- FORMWORK SHALL COMPLY WITH "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK". (ACI 341-04).

- THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFE ADEQUATE SHORING RE-SHORING, BRACING AND FORMWORK. GENERAL CONTRACTOR SHALL CONTRACT A STATE OF FLORIDA REGISTERED ENGINEER TO PREPARE SHORING AND RE-SHORING PLANS AND THEY SHOULD BE SUBMITTED TO THE ENFORCEMENT AGENCY FOR RECORD KEEPING.

- THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY APPROVED BY THE ENGINEER TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TEST PER ANY DAY'S FOUR LESS THAN 50 CUBIC YARDS.

- TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301 + 10.

- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

- VERTICAL CONSTRUCTION JOINTS USING APPROVED BULKHEADS MAY BE MADE AT CENTER OF BEAM OR SLAB SPANS WHERE STOP IN CONCRETE WORK IS NECESSARY. FOR ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SEE DETAILS. ANY OTHER CONSTRUCTION JOINT REQUESTED BY THE GENERAL CONTRACTOR SHALL BE SHOWN ON THE SHOP DRAWINGS FOR THE ENGINEER'S REVIEW.

- REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

- CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES OR TRUNKS OF VARYING LENGTHS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET, AND A SUFFICIENT NUMBER SHALL BE USED TO ENSURE THE CONCRETE IS BEING KEPT LEVEL AT ALL TIMES.

- REINFORCEMENT IN WALL, FOOTING, AND BEAMS SHALL BE CONTINUOUS AND LAPFED 48 BAR "S" AT SPLICE UNLESS OTHERWISE NOTED. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE REINF. DEVELOPMENT DETAIL).

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REINFORCING STEEL:

- ALL REINFORCING STEEL SHALL BE DEFORMED BARS, FREE FROM LOOSE RUST AND SCALE CONFORMING TO ASTM A618/A618M-01, FY+60KSI, UO.N.

- ALL REINFORCING SHALL BE DETAILED AND FABRICATED FOLLOWING THE REQUIREMENTS OF ACI 244. PLACING OF REBARS SHALL CONFORM TO CRSI "RECOMMENDED PRACTICES FOR PLACING REINFORCING BARS".

- MINIMUM CONCRETE COVER ON REINFORCING STEEL FOR NON-PRESTRESSED CONCRETE SHALL BE AS FOLLOWS, UO.N:

MINIMUM COVER	TOLERANCE + OR -
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: EXPOSED TO EARTH OR WEATHER NO. 5 AND SMALLER BARS; NO. 10 AND LARGER BARS. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: ROOF SLAB STRUCTURAL SLAB AND WALLS BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS) SLABS ON GRADE	3" 1 1/2" 2" 1" 1" 1 1/2" 1 1/2"
	3/8" 3/8" 3/8" 1/8" 1/8" 3/8" 1/4"

- NO DEVIATION FROM THE STRUCTURAL PLANS SHALL BE PERMITTED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE STRUCTURAL ENGINEER. ALL REINFORCING DETAILS TO BE SUBMITTED TO THE ENGINEER FOR HIS APPROVAL.

- ALL REINFORCING BARS SHALL BE SECURELY HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR THE BARS.

- BARS SUPPORTS SHALL BE PLASTIC TIPPED FOR EXPOSED CONCRETE. PLASTIC "DONUT" SPACERS WILL BE REQUIRED FOR STEEL AGAINST FORMS IN CONCRETE BEAMS AND WALLS IF FIELD CONDITIONS WARRANT.

- WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A 185 AND IT SHALL BE SUPPORTED ON SLAB BOLSTERS.

- ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPFED 30 DIA. AT SPLICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, UO.N.

- ALL WALLS AND COLUMNS SHALL BE DOUELED INTO FOOTINGS, WALLS, BEAMS, OR SLABS WITH BARS OF THE SAME SIZE AND SPACING AS THE BARS ABOVE. USE A (30) BAR DIAMETER LAP EXCEPT WHERE SPECIFICALLY INDICATED.

- VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. SPLICE BARS IN SPANDRELS, WALLS, BEAMS, GRADE BEAMS ETC. UNLESS OTHERWISE NOTED) AS FOLLOWS: TOP BARS AT CENTER LINE OF SPAN + BOTTOM BARS AT THE SUPPORT.

- REINFORCING ALLOWANCE: THE CONTRACTOR SHALL PROVIDE 15 TONS OF STEEL REINFORCEMENT FOR THE ENGINEER TO USE AT HIS DISCRETION DURING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR TO REIMBURSE THE OWNER FOR THE UNUSED PORTION.

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- TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) THREE DAYS.

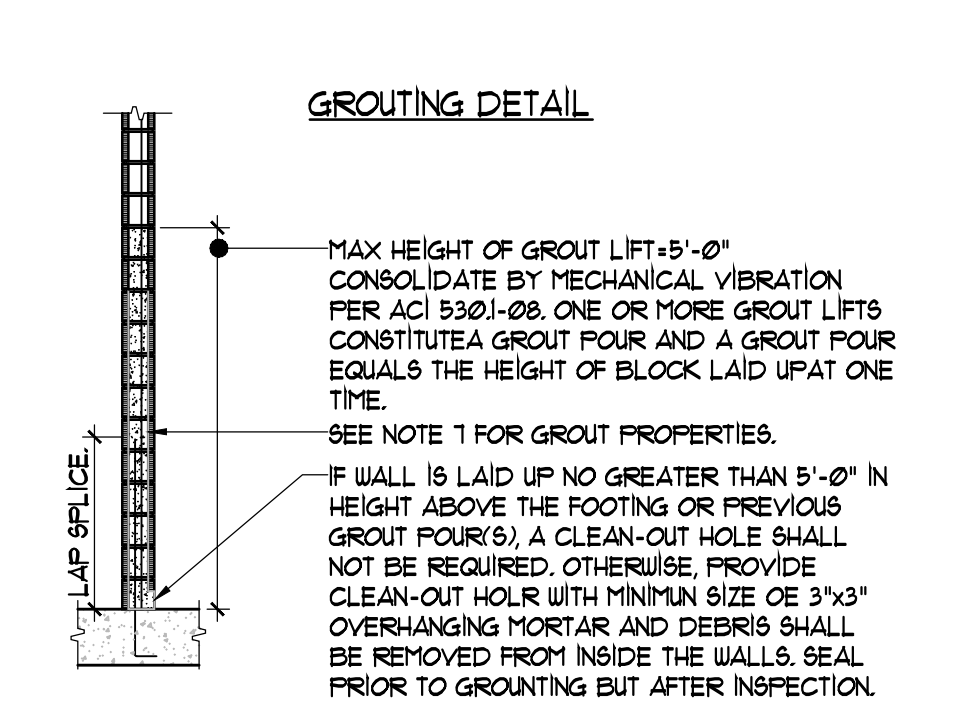
- DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.

- EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2' OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI 90 DEGREE HOOK IF ROOF JOIST AND/OR TRUSSES BEAR ON TOP OF WALL AND THERE IS NOT PARAFET. IF PARAFET EXISTS, HOOK IS NOT REQUIRED.

- MAXIMUM CONTROL JOINT SPACING FOR CONCRETE MASONRY UNITS.

SPACING FOR CONTROL JOINTS
2 x WALL HEIGHT + SPACING IN FT. (NOT EXCEED 40'-0")

- GROUT FOR FILL CELLS SHALL BE PLACED IN CONFORMANCE WITH ACI 530.108 AND AS INDICATED BELOW:



- DO NOT GROUT UNTIL MORTAR HAS SET SUFFICIENTLY TO WITHSTAND THE PRESSURE OF THE GROUT. WAIT NOT LESS THAN 24 HOURS.

- PLACE GROUT WITHIN 30 MINUTES FROM INTRODUCING WATER IN THE MIXTURE AND PRIOR TO INITIAL SET.

- MAXIMUM WALL HEIGHT LAID UP AT ONE TIME SHALL BE 12'-0" FOR EXCEEDING 5'-0" UNTIL THE GROUT POUR HAS REACHED THE TOP OF THE WALL. A GROUT POUR CONSIST OF ONE OR MORE LIFTS.

- THE MINIMUM CONTINUOUS UNOBSTRUCTED CLEAR AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 3"x3" MORTAR FINS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.

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