ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF HEES & ASSOCIATES, INC. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT MIX: THE EXPRESS, WRITTEN PERMISSION OF HEES & ASSOCIATES, INC.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, AND

DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFFTY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING. SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.

<u>DESIGN LOADS:</u>
THE STRUCTURAL RENOVATIONS FOR THESE BUILDINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2014 EDITION. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:

NOT TAKEN INTO CONSIDERATION. SCOPE OF PROJECT IS REPAIR OF CONCRETE ELEMENTS ONLY.

Vult = 150 MPH, Vasd =116 MPH. EXPOSURE B, RISK CATEGORY II, Cf=XXXX; P=XXXX psf

SEISMIC (FLORIDA):

IN ACCORDANCE WITH THE PREFACE OF THE 2014 FLORIDA BUILDING CODE. SEISMIC AND SNOW LOADS WERE NOT UTILIZED FOR THIS PROJECT: "THE FLORIDA BUILDING CODE IS BASED ON NATIONAL MODEL BUILDING CODES AND NATIONAL CONSENSUS STANDARDS WHICH ARE AMMENDED WHERE NECESSARY FOR FLORIDA'S SPECIFIC NEEDS. HOWEVER, CODE REQUIREMENTS THAT ADDRESS SNOW AND SEISMIC LOADS ARE PERVASIVE; THEY ARE LEFT IN PLACE BUT SHOULD NOT BE UTILIZED OR ENFORCED BECAUSE FLORIDA HAS NO SNOW LOAD OR EARTHQUAKE

SHOP DRAWING REVIEW:

SHOP DRAWINGS, TO INCLUDE STRUCTURAL SUBMITTALS, WILL BE PROVIDED FOR ALL WORK AND WILL BE REVIEWED FOR GENERAI 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. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND OWNER'S REP PRIOR TO SUBMITTAL TO THE <u>ARCHITECT/ENGINEER.</u> DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED. SHOP DRAWING SUBMITTALS SHALL INCLUDE ONE ORIGINAL AND THREE SETS OF COPIES. ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND THE CONTRACTOR SHALL MAKE PRINTS FROM THE ORIGINAL AS REQUIRED FOR DISTRIBUTION. IN ALL INSTANCES THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

<u>SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS:</u> ALL SPECIALTY ENGINEERED PRODUCTS OR SYSTEMS REQUIRE SIGNED & SEALED CALCULATIONS AND FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER.

THIS INCLUDES BUT IS NOT LIMITED TO CANOPIES AND THEIR FOUNDATIONS, PRE-ENGINEERED TRUSSES, ICF WALL SYSTEMS, ALL LIGHT GAUGE METAL STUD FRAMING SYSTEMS, ALUMINUM WALL SYSTEMS, GLAZED CURTAIN WALLS, LADDER/STAIR & RAILING SYSTEMS (INCLUDES

<u>RE-FASTENING OF EXISTING SYSTEMS TO EXISTING STRUCTURE)</u> ARCHITECTURAL PRECAST CONCRETE ELEMENTS, STRUCTURAL PRECAST OR TILT-UP SYSTEMS, GLASS FIBER REINFORCED CONCRETE PANEL SYSTEMS, OPEN WEB STEEL JOISTS, STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING, TILT-WALL ERECTION DRAWINGS, GLULAM BEAMS, TECTUM PLANKS, PEMB, ETC.

SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE DELEGATED ENGINEER.

COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED BLUELINE PRINT FOR RECORD.

DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

- a) THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
- b) THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
- c) THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE).
- d) THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).

<u>SUBMITTALS NOT MEETING THE CRITERIA LISTED IN THIS SECTION WILL NOT</u> BE REVIEWED.

SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE

5000psi FOR ALL STRUCTURAL CONCRETE.

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING. MIXING. TRANSPORTING. ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THA STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

<u>CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION</u> <u>INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE</u> STRUCTURE. IF ACCEPTED, PEA ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET

CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED. STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.

WATER/CEMENT RATIO FOR CONCRETE SHALL NOT EXCEED 0.40 BY

SEE SPECIFICATIONS FOR ADDITIONAL CONCRETE INFORMATION AS WELL AS INSTRUCTION FOR CONCRETE REPAIRS REQUIRED, NOTED ON THE PLANS.

CONCRETE TESTING: AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

a)ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." MAXIMUM SLUMP SHALL BE 4 TO 6 INCHES

b)ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:

1 AT 7 DAYS 2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARDED.

PFR POUR

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THE STRUCTURAL DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER. CONTRACTOR SHOULD SUBMIT SLAB DRAWINGS INDICATING ANY CONCENTRATION OF PIPES. OPENINGS OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO CONCRETE POURS.

POST-INSTALLED ANCHORS:

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN FLORIDA. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:

MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPRIVED MECHANICAL ANCHORS INCLUDE:

- SIMPSON STRONG-TIE 'STRONG-BOLT' (ICC-ES ESR-1771) SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-2713) ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL BE INSPECTED AS FOLLOWS. AT THE ONSET OF EACH APPLICATION, A MANUFACTURER'S REPRESENTATIVE MUST BE PRESENT TO WITNESS AT LEAST FIVE COMPLETE INSTALLATIONS. INSTALLERS MUST BE TRAINED BY THE MANUFACTURER EACH CERTIFIED INSTALLER WILL BE ISSUED A CERTIFICATION CARD TO VERIFY THEIR TRAINING AND SHALL BE REQUIRED TO CARRY THEIR CERTIFICATION CARD ON THEIR PERSON. CERTIFIED INSTALLERS SHALL PROVIDED WRITTEN DOCUMENTATION THAT ALL ANCHORS HAVE BEEN INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL ALSO HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC306. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
- SIMPSON STRONG-TIE 'SET-XP' (ICC-ES ESR-2508) 2. HILTI HIT-RE 500 SD (ICC-ES ESR-2322)

ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY.

MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACO1 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'WEDGE-ALL; (ICC-ES ESR-1396) SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-1056)

ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'SET' (ICC-ES ESR-1772) SIMPSON STRONG-TIE 'ACRYLIC-TIE' (ICC-ES ESR-1056) HILTI HIT HY150 (ICC-ES ER-5193)

ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY

SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE

SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-1056)

ADHESIVE ANCHORS WITH SCREEN TUBES FOR USE IN HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60. AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:

SIMPSON STRONG-TIE 'SET' (ICC-ES ESR-1772) SIMPSON STRONG-TIE 'ACRYLIC-TIE' (ICC-ES ER-5791) SIMPSON STRONG-TIE 'E' (ICC-ES ER-4945)

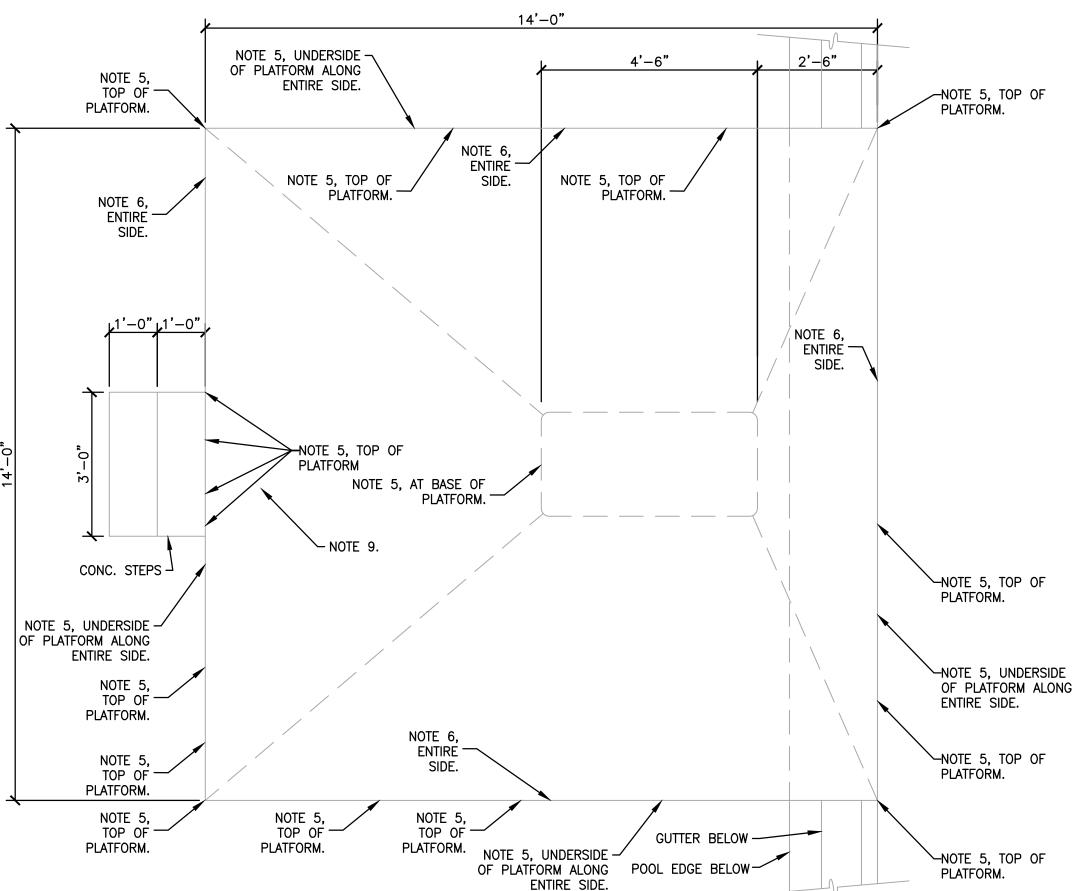
POWER-ACTUATED FASTENERS (PAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2138) OR ENGINEER-APPROVED EQUAL.

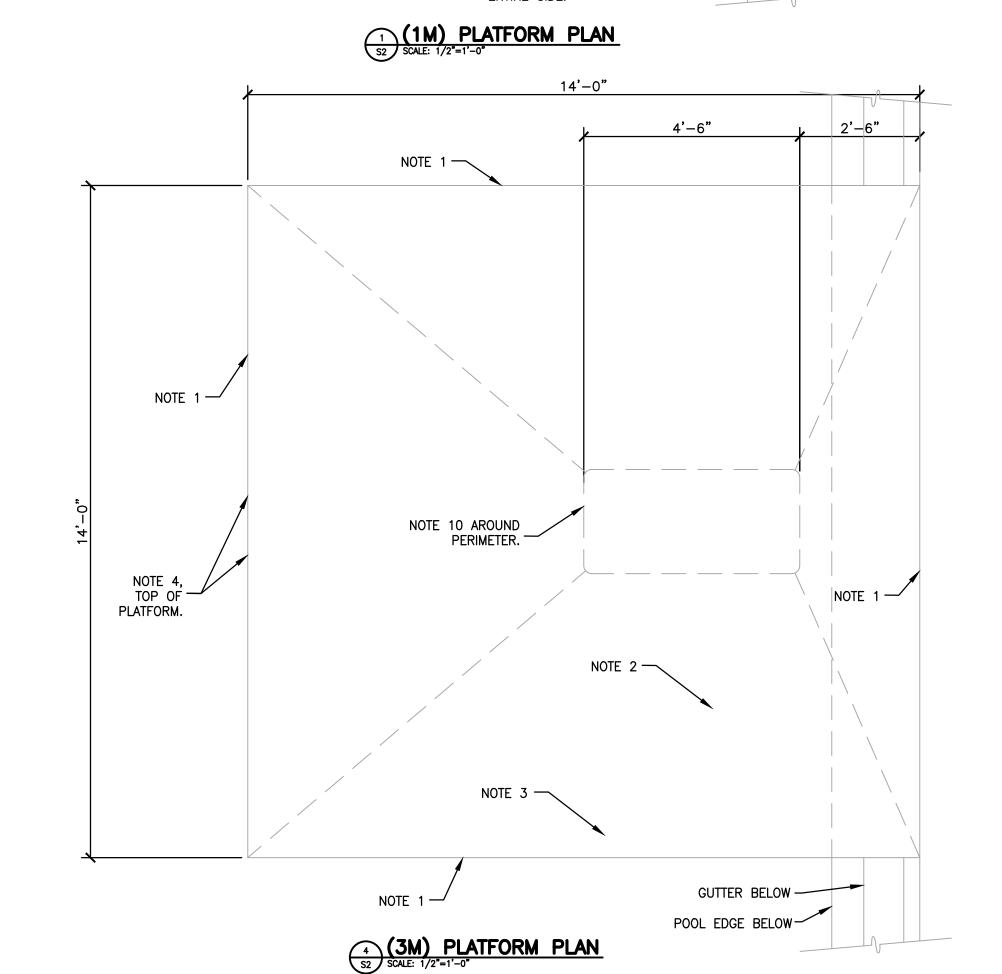
GAS-ACTUATED FASTENERS (GAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2811) OR ENGINEER-APPROVED EQUAL

INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS THAT WERE:

PREPARED FOR: MANATEE COUNTY PREPARED BY: FORNEY ENGINEERING, INC. ENTITLED: NO TITLE ON SHEET DATED: 9-30-86

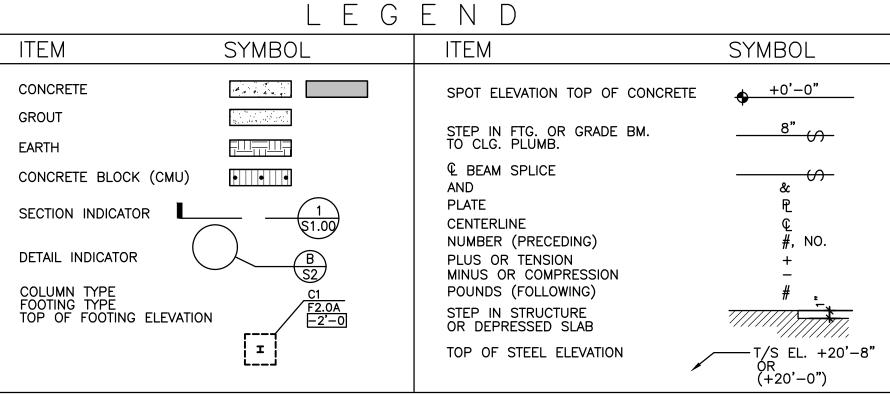
WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.





ANCHOR BOLT KIPS PER SQUARE FOOT A.F.F. ABOVE FINISHED FLOOR POUND ALUMINUM LONG LEG HORIZONTAL ALT. **ALTERNATE** LONG LEG VERTICAL **MAXIMUM** MAX. APPROX. **APPROXIMATE** MEZZ. **MEZZANINE** APPVD. APPROVED MFR. MANUFACTURER MINIMUM MIN. AVERAGE MISC. **MISCELLANEOUS** BLDG BUILDING NEAR SIDE BOTT. воттом N.T.S. NOT TO SCALE CENTER LINE NUMBER OR REBAR SIZE CLEAR OR CLEARANCE CL. OR CLR. OPPOSITE HAND CONNECTION CONN. ON CENTER CONCRETE MASONRY UNIT CMU P.A.F POWDER ACTUATED FASTENER CONST CONSTRUCTION POUNDS PER LINEAR FOOT CONT. CONTINUOUS POUNDS PER CUBIC FOOT CONSTRUCTION OR CONTROL JOINT PCI POUNDS PER CUBIC INCH CONC. CONCRETE POUNDS PER SQUARE FOOT COL. COLUMN POUNDS PER SQUARE INCH CTR. CENTER POST TENSIONED DIAG. **DIAGONAL** PROJ. **PROJECTION** Ø OR DIAM. DIAMETER REV. REVISION **DIMENSION** REFERNCE DWG. DRAWING REINF. REINFORCING DEFORMED BAR ANCHOR DBA REQ'D REQUIRED E.E EACH END SIMILAR EACH SCHED. **SCHEDULE** EACH FACE SLH SHORT LEG HORIZONTAL **EXPANSION JOINT** SHORT LEG VERTICAL SLV EACH SIDE SPEC. SPECIFICATION EACH WAY SQUARE SQ. ELEV. ELEVATION SQUARE FEET ELEC. **ELECTRICAL** S.S. STAINLESS STEEL EMBED. **EMBEDMENT** STD. STANDARD E.O.R. ENGINEER OF RECORD STIFF **STIFFENER** = OR EQ. EQUAL STEEL **EQUIPMENT EQUIP** STRUCT. STRUCTURAL EXIST. EXISTING SYMMETRICAL SYM. EXP. **EXPANSION** SYP SOUTHERN YELLOW PINE EXTENDED EXT. THICKENED EDGE FINISHED FLOOR F.F. THD. THREAD FLR. FLOOR THK. THICK FEET OR FOOT TRD. TREAD FAR SIDE T/WALL TOP OF WALL FTG. FOOTING ΤΈΜΡ. TEMPORARY FOUND. FOUNDATION THRU THROUGH Fy OR fy YIELD STRENGTH T.0.S TOP OF STEEL 28 DAY COMPRESSIVE STRENGTH TYPICAL GAUGE OR GAGE UNLESS NOTED OTHERWISE U.N.O. GALV. GALVANIZED W.C.J. WALL CONTROL JOINT GEN. GENERAL WT. WEIGHT HGT. HEIGHT WITHOUT HORIZ. **HORIZONTAL** INCH OR INCHES WELDED WIRE FABRIC ISOLATION JOINT KIPS (1000#) KSI KIPS PER SQUARE INCH

ABBREVIATIONS



- REMOVE STEEL ANGLE AROUND ENTIRE PERIMETER. CONTACT E.O.R. ONCE COMPLETE FOR OBSERVATION AND REPLACEMENT DIRECTION. CONCRETE BEHIND
- EXISTING ANGLE WILL LIKELY REQUIRE REPAIRS AS WELL. SEAL ENTIRE SURFACE OF CONCRETE PLATFORM WITH A SEALANT THAT DOES NOT
- CREATE A SLIPPERY SURFACE, ONCE ALL WORK HAS BEEN COMPLETED. REMOVE PAINT AT UNDERSIDE SURFACE OF PLATFORM, PATCH CONCRETE AS
- REQUIRED IN SPECIFICATIONS, AND REPAINT ONCE ALL WORK IS COMPLETE
- 4. SPALLED OR DAMAGED CONCRETE VISIBLE AROUND LADDER. REPAIR IN ACCORDANCE WITH SPECIFICATIONS.
- SPALLED OR DAMAGED CONCRETE VISIBLE. REPAIR IN ACCORDANCE WITH SPECIFICATIONS.
- REMOVE EXISTING BOARD AND ITS ANCHORS. REPAIR ALL DAMAGED CONCRETE BEHIND BOARD IN ACCORDANCE WITH SPECIFICATIONS. REPLACE BOARD WITH PRESSURE TREATED #2 SOUTHERN YELLOW PINE 2x8 (RIPPED TO MATCH EXISTING WIDTH). FASTEN NEW BOARD TO CONCRETE WITH %" DIAMETER 316 STAINLESS STEEL THREADED RODS (COUNTER SINK IN BOARD) 4" FROM EACH END AND AT 24" o.c. MAXIMUM BETWEEN, WITH 5" EMBED. ANCHOR WITH HILTI RE 500 V3 ADHESIVE.

CONTACT E.O.R. FOR DIRECTION IF ANY QUESTION ARISES. RE-USE EXISTING LADDER AND HANDRAIL SYSTEM; SEE GENERAL NOTES FOR FASTENING OF LADDER AND HANDRAIL SYSTEM. 9. CHIP OUT CONCRETE WHERE CONCRETE HAS DISCOLORED DUE TO STEEL ///1

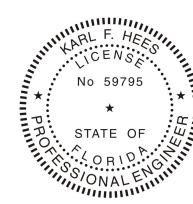
OXIDATION (ABOVE AND BELOW PLATFORM), SANDBLAST STEEL TO CLEAN BARE METAL, AND REPAIR IN ACCORDANCE WITH SPECIFICATIONS.

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10. REPLACE CAULK AT BASE OF CONCRETE PEDESTAL 11. FIELD VERIFY ALL DIMENSIONS.

D1 4C 59.

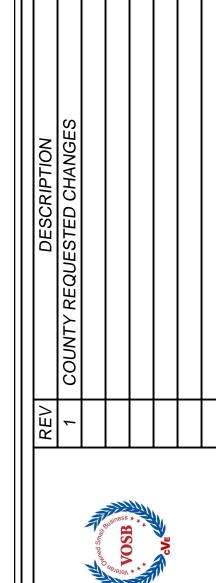
<u>any electronic devices.</u>



TO THE BEST OF THE ENGINEER-OF-RECORD'S KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE DOCUMENTS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

This item has been electronically signed and sealed by Karl F. Hees, P.E. on 01/04/17 using SHA-1 Authorization Code: D7 D2 1B 4E 5C 31 8B 78 CC D0 5E F0 A3 19 50 29 31 considered signed and sealed and the above SHA-1 authorization code must be verified on

DO NOT SCALE OFF OF THESE DRAWINGS. LAYOUT THE BUILDING USING ALL APPLICABLE CONTRACT DRAWINGS, BUILDING DIMENSIONS AND THE LOCATION OF ALL STRUCTURAL ELEMENTS INCLUDING BUT NOT LIMITED TO SLAB EDGES, WALLS, COLUMNS, OPENINGS AND DEPRESSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO LAYOUT OF THE BUILDING. RESOLVE ANY DISCREPENCIES.





FORM T BRA IVING <u>D</u> CAD FILE:

DRAWN BY: KFH 11/07/16 PROJECT NO:

16HA088 AS NOTED

1 OF 1