STRUCTURAL NOTES: STRUCTURAL DESIGN CRITERIA **INDEX OF DRAWINGS** esign SHT NO: TITLE **CAST IN PLACE CONCRETE** WOOD CONSTRUCTION **UPLIFT CONNECTORS** 2023 FLORIDA BUILDING CODE RESIDENTIAL CODES: 1. WOOD CONSTRUCTION SHALL CONFORM TO THE NDS "NATIONAL DESIGN 1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 2023 FLORIDA FIRE PREVENTION CODE 1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS **COVER SHEET** 28 DAYS OF 2500 PSI, A SLUMP OF 3" FOR FOOTINGS/FOUNDATIONS SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION. 2023 FLORIDA ACCESSIBILITY CODE AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS AND 4" FOR SLABS 2. ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, SHEAR WALLS AND NEC NFPA 70 & FBCEB 2 FLOOR PLAN THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING MISC. STRUCTURAL WOOD FRAMING MEMBERS, (I.E. BLOCKING OR GABLE ACI 318-19 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE 2. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS ELEVATIONS END BRACING) SHALL BE EITHER SOUTHERN PINE, OR S.P.F. NUMBER ACI 301-19 SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS STEEL CONFORMING TO ASTM A-615 GRADE 40. OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. ACI 530-19 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WWF SHALL 2 GRADE OR BETTER SHALL BE USED REGARDLESS OF SPECIES. S D PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF 3 FOUNDATION PLAN BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE 3. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THESE WALLS. 2020 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION ELECTRICAL PLAN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION 2020 WOOD FRAMED CONSTRUCTION MANUAL WITHIN THE 6". **FIELD REPAIR NOTES** APA PLYWOOD DESIGN SPECIFICATION 4. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS SHIELDS FOR ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. TRUSS LAYOUT _ | _ SHALL BE REPAIRED WITH SIMPSON HSS2 STUD SHOES, TYP., U.N.O. ASCE/SEI 7-16 AMERICAN SOCIETY OF CIVIL ENGINEERS OF BEAMS. 4. FASTENERS FOR PRESSURE PRESERVATIVE AND FIRE-RETARDANT-TREATED 5. HORIZONTAL FOOTING BARS SHALL HAVE 1'-0" HOOK LENGTH OR **DETAILS** 1. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED S-1 WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, CORNER BARS WITH A 2'-1" LAP PROVIDED W/ 1/2" DIA. EPOXY ANCHORS WITH 6" EMBEDMENT. SIMPSON 20 PSF (REDUCIBLE) **LIVE LOADS:** SILICON BRONZE OR COPPER. 6. MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE 40 "SET" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED 40 PSF BAR DIAMETERS TYP. RECOMMENDATIONS. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR 60 PSF BALCONIES 7. CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO 40 PSF STAIRS PREFABRICATED WOOD TRUSSES 2. FOR MISSED VERT. DOWELS DRILL A 3/4" DIAMETER HOLE 6" DEEP AT 20 PSF LIGHT PARTITIONS (DEAD LOAD), U.N.O. THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 10 PSF ATTIC L.L 1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR 2500 PSI CONCRETE ALL CONCRETE UNLESS OTHERWISE INDICATED REINFORCING STEEL (SIMPSON "SET", EPOXY), MIXED PER MANUFACTURER'S INSTRUCTIONS. 3000 PSI STRENGTH PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE ALL REINFORCING STEEL SHALL BE NEW DEFORMED BARS FREE FROM RUST. (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS) @ 28 DAYS FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION SCALE & OIL & SHALL MEET ASTM A-615 REINFORCING FOR FOOTING SHALL TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO ASTM A1064/A1064M FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED **REINFORCING:** WELDED WIRE FABRIC SHALL CONFORM TO BE SUPPORTED ON PRE-CAST CONCRETE PADS, TOP REINFORCING SHALL BE MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. ASTM A615-40 40,000 PS ALL REINFORCING BARS POSITIVELY SUPPORTED BY TEMPORARY STRINGERS. DOWELS FOR COLUMNS WAY DURING BOND BEAM POUR. ASTM A615-40 40,000 PSI 3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH ALL STIRRUPS AND TIES & FILLED CELLS SHALL BE SECURED IN PLACE BY USING ADDITIONAL CROSS-3. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF MINIMUM 1.5 LBS. OF POLYPROPYLENE FIBERS FOR SLABS ON GRADE REINFORCING TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL FIBERS PER CUBIC YARD WHERE PERMITTED SHALL BE THE FOLLOWING MINIMUM, UNLESS OTHERWISE CONT. TO FOOTING) DEAD LOAD. INDICATED ON THE DRAWINGS: CONCRETE ASTM C90-01, STANDARD WEIGHT UNITS, fm=1500 PSI 4. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE 4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY FTGS, WALLS, COLUMNS, BEAMS, SLABS: 36 DIA. OR 2'-0" MIN. **MASONRY** MORTAR TYPE "S" 1800 PSI SUBSTITUTED WITH (1) SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 21/4" THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS. FILLED CELL REINFORCING: 40 DIA. OR 2'-1" MIN. CONCRETE GROUT 3000 PSI UNITS: TITENS TO MASONRY AND (7)-10d NAILS TO TRUSS FOR UPLIFTS LESS 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION 20 DIA. OR 1'-0" MIN. TEMPERATURE REINFORCING: CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION THAN 860 LBS (USE (2) MTSM16 FOR UPLIFTS LESS THAN 1720#). OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE WELDED WIRE MESH: 8" LAP NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O **STRUCTURAL** 3 IN A ROW. IF GIRDER TRUSS CONNECTIONS ARE MISSED CONTACT **MASONRY WALL CONST.** FOLLOWING DESIGN LOADS: SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL: ENGINEER OF RECORD FOR SUBSTITUTION. 6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION. TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET **TERMITE SPECIFICATIONS:** 7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE WOOD FRAMING: BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. COMPRESSIVE STRENGTH OF 1900 PSI (f'm = 1500 PSI) MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND NO. 2 SOUTHERN YELLOW PINE (19% M.C.) 2. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270 **SECTION R318 PROTECTION AGAINST TERMITES** GOVERNING CODES . SUBMITTALS SHALL INCLUDE TRUSS FRAMING Digitally ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, or OSB 3. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH signed by CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR AT 28 DAYS OF 3000 PSI SLUMP 8" TO 11". BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE A PREVENTIVE VERSA LAM BEAM Fb = 2900 PSI (2.0E) Randolph 4. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A TREATMENT TO NEW CONSTRUCTION (SEE SECTION 202, REGISTERED TERMITICIDE). WOOD COLS. PARALLAM 2.0E U.N.O. WITH THE CELLS FILLED WITH COARSE GROUT. Wiggins FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 2 COPIES FOR UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, 5. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND **DESIGN LOADS:** SHINGLE ROOF: REVIEW AND APPROVAL PRIOR TO FABRICATION. **WOOD ROOF** A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE BOTTOM AND AT A MAXIMUM SPACING OF 192 BAR DIAMETERS. Date: TOP CHORD LIVE LOAD: 20 PSF 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING TRUSSES: LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY 10 PSF POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP TOP CHORD DEAD LOAD: BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN 2024.07.09 CELL TYPICAL UNLESS OTHERWISE NOTED. DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE BOTTOM CHORD DEAD LOAD: 6. REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 40 BAR ALL TRUSS TO TRUSS HANGERS. 11:35:49 FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES." DIAMETERS, UNLESS OTHERWISE NOTED ON THE DRAWINGS. -04'00' 7. GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM. PLASTIC SCREEN, SOIL BEARING VALUE: RADON: BOTTOM CHORD ATTIC LIVE LOAD: 10 PSF METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN 2000 PSF SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION PREVALENT AREAS, APPENDIX "F" OF THE 2023 FLORIDA PROHIBITED. FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING RESIDENTIAL BUILDING CODE IS TO BE IMPLEMENTED. REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM **DEAD LOAD.** OF 3000 P.S.I., THEREFORE, ANY AND ALL NOTES ON THESE CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN. SOIL TO BE COMPACTED TO AT LEAST 95% OF PLANS THAT INDICATE 2500 PSI SHALL BE REPLACED WITH MAX. DRY DENSITY AS DETERMINED BY ASTM - D1557 3000 P.S.I. FOR THE CONCRETE STRENGTH. WIND LOADING CRITERIA WIND SPEED (ULTIMATE) Residence SW Herlong WIND SPEED (ALLOWABLE) 101 MPH EXPOSURE CATEGORY BUILDING CATEGORY BUILDING TYPE ENCLOSURE CLASSIFICATION ENCLOSED INTERNAL PRESSURE COEFFICIENT +/- 0.18 **NOTICE TO BUILDER** Miller Re 3642 SV Ft. White Columbi THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED AND SEALED OR WHILE **CURRENT CODE IS VALID** IT IS THE INTENT OF THIS DESIGNER THAT SHEET NO. THESE PLANS ARE ACCURATE AND ARE CLEAR ENOUGH FOR THE LICENSED PROFESS-ONAL TO CONSTRUCT THIS PROJECT. IN THE EVENT THAT SOMETHING IS UNCLEAR OR NEEDS CLARIFICATION..STOP..AND CALL THE DESIGNER LISTED IN THIS TITLE PAGE. IT IS THE RESPONSIBILITY OF THE LICENSED

PROFESSIONAL THAT IS CONSTRUCTING THIS PROJECT TO FULLY REVIEW THESE DOCUMENTS BEFORE CONSTRUCTION BEGINS AND ANY AND ALL CORRECTIONS, IF NEEDED, TO BE MADE

DO NOT SCALE DRAWINGS FOR CRITICAL DIMENSIONS INSTEAD CALL THE DESIGNER LISTED IN TITLE PAGE

BEFORE ANY WORK IS DONE.





