CONTRACTOR NOTE: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. O'DONNELL, NACCARATO, MIGNOGNA & JACKSON, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PRECAUTIONS AND PROGRAMS.

- 010 CODES AND STANDARDS
- WIND LOADS AS PER:
- A. SECTION 1609 OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) WITH AN ULTIMATE WIND SPEED VULT = 190 MPH (NOMINAL WIND SPEED VASD = 147 MPH), FOR RISK CATEGORY IV, EXPOSURE C AND INTERNAL PRESSURE

5 PSF

10 PSF

B. THIS BUILDING IS DESIGNED AS AN ENCLOSED BUILDING.

DESIGN LOADS:

A. LIVE LOADS - COMMERCIAL:

- CORRIDORS ABOVE 1ST FLOOR LOBBY STAIRS AND EXITS ASSEMBLY LIGHT STORAGE
- PARTITION LOAD 15 PSF (IN ADDITION TO OFFICE LOAD)
 1.8 SERVER ROOM 125 PSF MECHANICAL ROOM
 ROOF TRUSSES
 A. TOP CHORD LL = 20 PSF
- B. BOTTOM CHORD LL = 10 PSF
- B. ROOF SUPERIMPOSED DEAD LOADS: 2.1 MEP / MISC
- 2.2 ARCH'L FINISHES CEILING / ROOFING ROOF TRUSSES A. TOP CHORD SDL = 15 PSF B. BOTTOM CHORD SDL = 10 PSF
- C. FLOOR SUPERIMPOSED DEAD LOADS:
- ARCH'L FINISHES 3.3 CEILING / ROOFING 3. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
- A. FLORIDA BUILDING CODE 7TH EDITION (2020).
- B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318/LATEST EDITION).
- C. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED. CONCRETE STRUCTURES (ACI 315/ LATEST EDITION).
- D. MANUAL OF STANDARD PRACTICE FOR WELDING REINFORCING STEEL INSERTS & CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION. AWS. D1.4/LATEST EDITION. E. SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF
- STRUCTURAL STEEL FOR BUILDINGS. (AMERICAN INSTITUTE OF STEEL CONSTRUCTION) AISC STEEL CONSTRUCTION MANUAL. F. SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS,
- ACI 301/LATEST EDITION. G. NATIONAL DESIGN SPECIFICATION, WOOD CONSTRUCTION NDS/LATEST EDITION
- H. BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530, 530.1/ASCE 5, 6/TMS 402, 602/LATEST EDITIONS).
- ARCHITECTURAL AND MECHANICAL DRAWINGS A. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS
- AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE TO INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT
- B. REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC.
- C. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.
- D. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF TH ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH ANY WORK
- ALL STRUCTURES HAVE BEEN DESIGNED TO RESIST THE DESIGN LOADS LISTED ONLY AS COMPLETED STRUCTURES. THE GENERAL CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT WORK IN PROGRESS UNTIL THE STRUCTURES ARE COMPLETED. THE GENERAL CONTRACTOR SHALL ALSO ENSURE THAT ITS OPERATION: AND PROCEDURES PROVIDE NO LOADING GREATER THAN THE DESIGN LOADS LISTED ON ANY MEMBER.
- SECTIONS AND DETAILS:

ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE NTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

- THRESHOLD INSPECTIONS SHALL BE PERFORMED DURING CONSTRUCTION OF THIS BUILDING AS REQUIRED BY SECTION 110.8 OF FBC.
- 8. MATERIALS AND ASSEMBLY TEST AS FOLLOWS:
- A. EXTERIOR WINDOWS, SLIDING AND PATIO GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND SHALL BE LABELED WITH AN APPROVED LABEL IDENTIFYING THE MANUFACTURES PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT CERTIFICATION AGENCY, TESTING LABORATORY, EVALUATION ENTITY OR FLORIDA STATE WIDE PRODUCT APPROVAL NUMBER TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS: ANSI/AAMA/NWWDA 101/I.S. 2-97 OR TAS 202 (HVHZ SHALL COMPLY WITH
- B. EXTERIOR DOOR ASSEMBLIES SHALL BE TESTED FOR STRUCTURAL INTEGRITY IN ACCORDANCE WITH ASTM E330 AT A LOAD OF 1.5 TIMES THE REQUIRED DESIGN PRESSURE LOAD. THE LOAD SHALL BE SUSTAINED FOR 10 SECOND WITH NO PERMANENT DEFORMATION OF ANY MAIN FRAME OR PANEL MEMBE IN EXCESS OF 0.4 PERCENT OF ITS SPAN AFTER THE LOAD IS REMOVED. THERE SHALL BE NO GLASS BREAKAGE. PERMANENT DAMAGE TO FASTENER HARDWARE PARTS, OR ANY OTHER DAMAGE, WHICH CAUSES THE DOOR TO B
- C. SECTIONAL GARAGE DOORS SHALL BE TESTED FOR DETERMINATION OF STRUCTURAL PERFORMANCE UNDER UNIFORM STATIC AIR PRESSURE DIFFERENCE IN ACCORDANCE WITH ANSI/DASMA 108 OR TAS 202
- D. CUSTOM (ONE OF A KIND) EXTERIOR DOOR ASSEMBLIES SHALL BE TESTED BY AN APPROVED TESTING LABORATORY OR BE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES.
- WINDOW AND DOOR ASSEMBLIES SHALL BE ANCHORED IN ACCORDANCE WITH THE PUBLISHED MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE DESIGN PRESSURE SPECIFIED. SUBSTITUTE ANCHORING SYSTEM USED FOR SUBSTRATES NOT SPECIFIED BY THE FENESTRATION MANUFACTURER SHALL PROVIDE FOLIAL O GREATER ANCHORING PERFORMANCE AS DEMONSTRATED BY ACCEPTED ENGINEERING
- 9. ALL FASTENERS DESIGNATED, AS STAINLESS STEEL SHALL CONFORM TO AISI 316 011 SPECIALTY ENGINEERED PRODUCTS
- 1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SPECIALTY ENGINEERED/DELEGATED DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS ANI RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT AND LATERAL LOADS. INTERIOR SPECIALTY PRODUCTS SHALL BE DESIGNED FOR LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL BE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- A. LIGHT GAUGE METAL, INCLUDING BUT NOT LIMITED TO, SOFFITS, CLADDING,
- B. MISCELLANEOUS METALS INCLUDING STEEL STAIRS, HAND RAILS AND SAFETY RAILS, MECHANICAL EQUIPMENT SUPPORTS, FRAMES THAT SUPPORT MACHINES, PIPES OR OTHER STRUCTURAL METAL USED FOR SUPPORT OF
- MISCELLANEOUS HANGERS, CHANDELIERS, CABINETS, METAL FRAMES, LADDERS, RIGGING, HANGING WALLS, RAILINGS, GLAZING FRAMES, CLADDING SUCH AS STONE, PRECAST CONCRÉTE, ALUMINUM, METAL PANELS, CABLE BARRIER SYSTEMS, TC. OR ANY OTHER MISCELLANEOUS PRODUCT REQUIRED BY ANY OF THE
- D. IN ADDITION TO THE LOADS SHOWN IN THE DESIGN LOAD SCHEDULE, THE SPECIALTY ENGINEER SHALL DESIGN FOR THE WEIGHT OF ALL MECHANICAL PLUMBING AND ELECTRICAL EQUIPMENT AND FIXTURES, AS WELL AS CHANDELIER FIXTURES, BAR CABINETS, AND ART WORK / MOBILES.

GENERAL CONTRACTOR TO INCLUDE IN THEIR BID THE COST OF THE ABOVE NOTED SPECIALTY

012 PRE-ENGINEERED STRUCTURES AND METAL BUILDINGS

STRUCTURAL DELEGATED ENGINEERING DOCUMENTS SHALL IDENTIFY THI PROJECT AND LIST LOADING OTHER DESIGN CRITERIA. STRUCTURAL DELEGATED ENGINEERING DOCUMENTS SHALL INCLUDE FABRICATION AND ERECTION DRAWINGS WHICH INDICATE IN DETAIL THE CONSTRUCTION OF THE STANDARD STRUCTURE USED OR AS MODIFIED TO COMPLY WITH THE REQUIREMENTS OF THE PARTICULAR PROJECT. THEY SHALL INDICATE ALL CONNECTION DETAILS, OPENINGS AND OTHER SPECIAL DETAILS. THEY SHALL SHOW THE MAGNITUDE AND LOCATION OF BUILDING REACTIONS ON THE FOUNDATION UNDER ALL DESIGN CONDITIONS. CALCULATIONS SUPPORTING THE DESIGN SHALL BE SUBMITTED.

- PRE-ENGINEERED ITEMS SHALL BE SUBMITTED SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DRAWINGS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTACT DOCUMENTS AS TO QUALITY, LENGTH, ELEVATIONS, DIMESIONS, ETC.
- ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED
- IN ALL INSTANCES, THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS
- PRE-ENGINEERED ITEMS SHALL BE SUBMITTED SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED VIA ELECTRONIC FORMAT, UNLESS OTHERWISE REQUIRED FOR A SPECIFIC COMPONENT OR SYSTEM.

015 DEMOLITION CONTRACTOR TO

- A. OBTAIN DEMOLITION PERMIT BEFORE PROCEEDING WITH THE WORK. CONTACT LOCAL BUILDING AUTHORITIES TO BECOME FAMILIAR WITH LOCAL LAWS AND REGULATIONS GOVERNING THIS WORK.
- B. PROVIDE THE NECESSARY LABOR, MATERIAL, SCAFFOLDING AND EQUIPMENT REQUIRED TO COMPLETE DEMOLITION AS DESCRIBED IN THE
- DISCONNECT ALL ELECTRICAL, PLUMBING AND AIR CONDITIONING SYSTEMS WITHIN THE AREA TO BE DEMOLISHED BEFORE PROCEEDING WITH DEMOLITION WORK.
- DEMOLISH ONLY THE MEMBERS INDICATED IN THE DRAWINGS. DEMOLISH CONCRETE MEMBERS IN SMALL SECTIONS. TAKE EVERY PRECAUTION TO PROTECT EXISTING STRUCTURE THAT IS TO REMAIN. USE BRACING AND SHORING AS NECESSARY TO AVOID COLLAPSE OF STRUCTURE.
- REMOVE ALL RUBBISH AND DEBRIS FROM BUILDING AND FROM

016 SHORING AND RESHORING

- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SHORING, BRACING AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. SUBMIT SIGNED AND SEALED SHOP DRAWINGS PREPARED BY A DELEGATED ENGINEER EXPERIENCED IN SUCH WORK AND LICENSED IN THE STATE F FLORIDA. SUBMIT DRAWINGS TO THE ARCHITECT, ENGINEER, SPECIAL INSPECTO AND BUILDING OFFICIAL FOR RECORD ONLY. SHORING AND RESHORING DESIGN AND CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE ENGINEER
- THE DELEGATED ENGINEER WHO PREPARES THE SHORING AND RESHORING DRAWNGS SHALL INSPECT THE SHORING AND RESHORING. THEY SHALL PROVIDE A FIELD REPORT
- THE BRACING DETAILS OF THE EXTERIOR WALLS OF WHICH IN SOME CASES, THE ROOF DECK DIAPHRAGM AND ROOFING MEMBERS WILL BE REMOVED LEAVING THE EXTERIOR WALLS UNBRACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HIRE A SPECIALTY SHORING AND BRACING ENGINEER TO PROVIDE THE REQUIRED DOCUMENTS FOR THIS EFFORT.
- 020 FOUNDATION
- ALL SITE PREPARATION AND EXCAVATION WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE:
- A. REPORT ON SOILS AND FOUNDATION INVESTIGATION PREPARED BY ARDAMAN & ASSOCIATES, INC. DATED JULY 28, 2020. B. THE GENERAL CONTRACTOR SHALL SUBMIT THE FINAL GEOTECHNICAL REPORT SIGNED AND SEALED TO THE BUILDING OFFICIAL WHEN SUBMITTING FOR PERMIT.
- THE BUILDING SITE SHOULD BE EXCAVATED TO THE DEPTH AND EXTENT INDICATED IN THE SOILS REPORT. ALL SUBGRADES SHALL BE APPROVED IN WRITING BY THE SOILS ENGINEER PRIOR TO BACKFILLING. GENERAL CONTRACTOR SHALL SUPPLY SURVEYOR'S

GOVERNING AUTHORITY'S REQUIRED FLOOR ELEVATION BEFORE COMMENCING ANY WORK

FLOOD PLANE CERTIFICATION THAT THE FLOOR SLAB ELEVATION IS ABOVE THE

- BOTTOM OF FOOTINGS ASSUMED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING PSF.
- SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK, ORDERING MATERIALS, OR MOVING FORWARD IN ANY WAY. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.
- 5. TOP OF FOOTINGS SHALL BE MINIMUM 1'-4"BELOW EXTERIOR FINISH GRADE AND MINIMUM 1'-4"BELOW TOP OF SLAB.
- 6. EXCAVATION & BACKFILL: A. ALL EXCAVATION SHALL BE KEPT DRY. DE-WATERING WILL BE REQUIRED AND SHALL BE PROVIDED BY THE CONTRACTOR. THE DE-WATERING SHALL BE PROVIDED SO ALL EXCAVATIONS ARE DRY AND THE TESTING AGENCY CAN TAKE THE APPROPRIATE DENSITY TESTS AND ALL OTHER REQUIREMENTS OF GEOTECHNICAL REPORT AND PROJECT CONSTRUCTION DOCUMENTS ARE MET. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO

GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES,

- B. PROVIDE ANY BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATION OR STRUCTURES
- CENTERLINE OF FOOTINGS: SHALL COINCIDE WITH CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED ON DRAWINGS.
- DIMENSIONS: ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR BEFORE PROCEEDING WITH THE CONSTRUCTION ISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR NGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK.

030 CONCRETE

- 1. CONCRETE ELEMENTS TO HAVE THE FOLLOWING STRENGTHS:
- 4000 PSI . SLAB-ON-GRADE COLUMNS WALLS TIE BEAMS STRUCTURAL SLABS H. MASONRY GROUT 3000 PS
- ALL OTHER CONCRETE TO BE 4000 PSI UNLESS NOTED OTHERWISE
- ALL CONCRETE SHALL BE READY MIX AND MEET THE FOLLOWING REQUIREMENTS:
- A. A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS
- B. SLUMPS SHALL BE 3 MINIMUM AND 5 MAXIMUM.
- C. ALL CONCRETE TO HAVE MAXIMUM WATER/CEMENT RATIO OF 0.55.
- D. JOBSITE WATER SHALL NOT BE ADDED. E. CEMENT SHALL CONFORM WITH ASTM C150 TYPE 1. SLAG, ASTM C989 SHALL BE LIMITED TO 50% (BY WEIGHT OF CEMENTITIOUS MATERIAL AND FLY
- ASH, ASTM C618, CLASS F, SHALL BE LIMITED TO 25% (BY WEIGHT) OF ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE (ACI 318/ LATEST EDITION), THE ACI DETAILING MANUAL
- (ACI 315/ 1994 EDITION), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301/ LATEST EDITION).
- CONTRACTOR TO PROVIDE CONCRETE AND ALL OTHER CONCRETE BASED PRODUCTS THAT COMPLY WITH LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING RADON
- ACI SPECIFICATIONS. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A1064/A1064M, UNLESS OTHERWISE SPECIFIED. PLACE FABRIC 2" CLEAR FROM TOP OF THE SLAB IN SLAB ON GRADE AND SUPPORT ON SLAB BOLSTERS SPACED AT 3'-0" O.C.

CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS REQUIRED BY

- REQUIREMENTS REINFORCING STEEL SHALL CONFORM TO ASTM DESIGNATION A 615
- B. WWF SHALL COMPLY WITH ASTM A1064/A1064M.
- C. GALVANIZED REBAR SHALL CONFORM TO ASTM A767.
- D. PROVIDE 10 MIL VAPOR BARRIER COMPLIANT WITH ASTM E1745 BELOW ALL
- LAP ALL BARS WITH CLASS B TENSION LAP SPLICE UNLESS OTHERWISE NOTED ON DRAWINGS. LAP ALL WWF A MINIMUM OF 12 INCHES (UNLESS OTHERWISE

REINFORCING BARS

- AT CORNERS OF CONCRETE WALLS, BEAMS AND CONTINUOUS WALL HORIZONTAL BAR SCHEDULED AT EACH FACE. SEE WALL CORNER DETAIL
- B. WHERE COLUMNS ARE AN INTEGRAL PART OF CONCRETE WALLS, WALL REINFORCEMENT SHALL BE CONTINUOUS THRU THE COLUMNS. ALL HOOKS SHOWN IN REINFORCEMENT SHALL BE ACI RECOMMENDED HOOKS UNLESS OTHERWISE NOTED.

CUBIC YARD. REBAR COVER TO BE 1.5" MINIMUM.

- FOR BALCONIES, SLABS AND WALKWAYS EXPOSED TO WEATHER ALL REINFORCING STEEL (TOP AND BOTTOM) AS WELL AS SPACERS AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCING SHALL BE GALVANIZED CONFORMING TO ASTM A767. BOLSTERS AND CHAIRS TO BE PLASTIC. CONCRETE PLACED IN THESE AREAS TO HAVE .40 W/C RATIO MAXIMUM AND CONTAIN 2.5 GALLONS OF CALCIUM NITRATE PER
- ALL REBARS THAT ARE TO BE DRILLED AND FASTENED WITH ADHESIVE ANCHORS (ONLY IN AN OVERHEAD, INCLINED UPWARD OR HORIZONTAL POSITION) INTO CONCRETE, REQUIRE THE INSTALLER BE ACI CERTIFIED PER ACI 318 (LATEST EDITION). THE ALTERNATIVE IS TO PERFORM A PULL TEST ON EVERY REBAR

- CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE AT MID-SPAN AND KEY JOINTED WITH REINFORCING CONTINUOUS ACROSS JOINT AND ADDITIONAL SHEAR FRICTION REINFORCING. CONSTRUCTION OINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. CONSTRUCTION JOINTS IN POST—TENSION SLABS SHALL BE LOCATED AND DESIGNED BY SPECIALTY ENGINEER
- 10. ALL MECHANICAL COUPLERS SHALL DEVELOP 1.25 FY OF REBAR IN TENSION OR COMPRESSION AND COMPLY WITH ACI 318.
- DROP BOTTOM OF BEAM OR SLAB AT WINDOWS, DOORS, ANY OVERHEAD OPENINGS, AND MASONRY OPENINGS AS REQUIRED TO PROVIDE A CONCRETE CLOSURE BETWEEN THE BOTTOM OF THE BEAM AND REQUIRED OPENINGS OR PROVIDE A PRECAST CONCRETE LINTEL BY CASTCRETE IF NOT NEXT TO A POURED
- MAXIMUM DROP SHALL BE 24". PROVIDE 2 #5 EACH FACE @12"O.C. AND AT BOTTOM OF DROP INCLUDING #3 TIES @ 24" O.C. EXTENDING TO TOP OF BEAM REINFORCING. IF THE LINTEL EXCEEDS THE ABOVE LIMIT OF DROP, A SEPARATED LINTEL SHALL BE PROVIDED AS FOLLOWS:
- OPENING LESS THAN 6'0" WIDE 8" X 8" W/2 #5 BOTTOM BARS. L2. OPENING BETWEEN 6'0" AND 12'0" WIDE 8" \times 16" \times 46 TOP AND BOTTOM BARS AND #3 © 6'0 O.C.
- C. LINTELS TO HAVE 8" MINIMUM BEARING AT EACH END.
- IF THE MASONRY OPENING HAS AN END ADJACENT TO A CONCRETE COLUMN PROVIDE (2) #5 OR #6 DOWELS, AS THE CASE MAY BE, IN THE CONCRETE COLUMN MITH SHEAR KEY 1-1/2 INCH DEEP BY LINTEL'S DEPTH AND WIDTH FOR ITS SUBSEQUENT CONSTRUCTION.

040 MASONRY 1. MASONRY UNITS SHALL BE

- LOAD BEARING ASTM C90
 TYPE II NON-MOISTURE CONTROLLED
- ALL CMU SHALL BE LAID IN A FULL BED OF MORTAR IN RUNNING BOND
- E COMPRESSIVE STRENGTH OF MASONRY (F'M) SHALL BE 2500 BLAS CALCULATED IN ACCORDANCE WITH ASTM C1314 WITH TYPE M OR S MORTAR AS
- ALL MORTAR SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION C270. A. FROM FIELD OBTAINED TEST CUBES. (MIN. OF TWO)
- 4. GROUT SHALL BE A HIGH SLUMP MIX A. IN ACCORDANCE WITH ASTM SPECIFICATION C476 B. HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI
- C. FROM FIELD OBTAINED TEST CUBES. (MIN. OF TWO) ALL CONCRETE MASONRY BEARING AND SHEAR WALLS SHALL BE
- A. CONSTRUCTED B. INSPECTED BY A CERTIFIED INSPECTION COMPANY AND CONSTRUCTED
- IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENT FOR MASONRY STRUCTURES" (ACI 530/ASCE 5/TSM 402) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TSM 602)/ LATEST EDITIONS.
- 6. PROVIDE 8" X 8" OR 8"X 12" DEPENDING ON MASONRY WALL MASONRY BEAM WITH 2 #5 CONT. AT EVERY WINDOW SILL. EXTEND BEAM 8" BEYOND EDGE OF OPENING. 7. PROVIDE HOT DIPPED GALVANIZED LADDER TYPE HORIZONTAL JOIN REINFORCEMENT (9 GA.) AT 16" ON CENTER VERTICAL IN ALL MASONRY

WALLS. PROVIDE DOVE TAIL SLOT ANCHORS AT CONCRETE COLUMNS.

- FOR JOINT REINFORCEMENT, WALL TIES, ANCHORS AND INSERTS, APPLY A MINIMUM COAT OF 1.5 OUNCES PER SQUARE FOOT (PSF) (458/G/M2) COMPLY WITH THE REQUIREMENTS OF ASTM A153, CLASS B.
- PROVIDE CONTROL JOINTS IN MASONRY WALLS AT A SPACING OF 30' \pm 0.C. AND ALIGN WITH ARCHITECTURAL CONTROL JOINTS. EPOXY GROUT SHALL BE NON-SHRINK HIGH CREEP RESISTANT, AND SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE PROPERTIES: TENSILE STRENGTH, ASTM C 307: 1,500 PSI FLEXURAL STRENGTH, ASTM C 580: 4,000 PSI
- COMPRESSIVE STRENGTH, ASTM C 579: 1,600 PSI/7 DAYS. 10. MINIMUM LAP SPLICES FOR REINFORCED CMU AS FOLLOWS: BAR SIZE
- LAP SPLICES SHALL OCCUR DIRECTLY ABOVE FOOTINGS AND SLABS. NO SPLICES ARE ALLOWED AT MID-HEIGHT OF WALL.
- LAP SPLICES THAT DO NOT OCCUR AT TOP OF FOOTING AND DIRECTLY ABOVE FLOOR SLAB SHALL BE INCREASED BY 50% TO 72 BAR DIAMETERS. LAP SPLICES THAT OCCUR AT CANTILEVERED WALLS SUCH AS: PARAPETS, RETAINING WALLS, ETC. SHALL HAVE LAP SPLICE LENGTHS
- INCREASED BY 50% TO 72 BAR DIAMETERS.
 - A PRECAST CONCRETE LINTEL BY CASTCRETE OR EQUAL MAY BE PROVIDED OVER MASONRY WALL OPENINGS UNLESS A CAST-IN-PLACE LINTEL IS REQUIRED IN THE CONCRETE LINTEL NOTES. THE LINTEL SHALL BE FULLY GROUTED.
 - B. LINTELS TO HAVE 4" MINIMUM BEARING AT EACH END.
- C. SHORE PRECAST LINTEL PER MANUFACTURER'S INSTRUCTIONS.
- ADJACENT TO ANY EXTERIOR/INTERIOR WALL OPENING, PLACE (1) MATCHING VERTICAL BARS IN CELLS GROUTED SOLID FULL HEIGHT PER THE DRAWNGS. AT ENDS, CORNERS, AND INTERSECTION OF WALLS PLACE (1) MATCHING
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE. STRUCTURAL STEEL SHALL CONFORM TO: A. ASTM SPECIFICATION A 992 GRADE 50 FOR ALL WIDE FLANGE BEAMS.
- B. ASTM SPECIFICATION A 36 FOR MISCELLANEOUS STEEL SHAPES (ANGLES, PLATES, ETC.).
- SQUARE OR RECTANGULAR HSS SHALL CONFORM TO ASTM SPECIFICATION A 500 GRADE B (FY=46 KSI). ROUND HSS SHALL CONFORM TO ASTM SPECIFICATION A500, GRADE B
- (FY=42 KSI). ROUND HSS WITH A WALL THICKNESS GREATER THAN 5/8", SHALL CONFORM TO ASTM A53, GRADE B (FY=35 KSI). E. ALL STEEL TO HAVE A SHOP COAT OF RUST INHIBITIVE PAINT.
- F. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED ON FIREPROOFING OR CONCRETE ENCASEMENT. G. ALL MILL CAMBER TO BE ORIENTED UPWARD DURING FABRICATION AND
- H. STEEL BEAMS INSTALLED IN PARALLEL WITH STEEL BAR JOISTS MUST HAVE CAMBER EQUAL TO BAR JOISTS. I. ALL EXTERIOR STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED.
- 2. ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS QUALIFIED, AS DESCRIBED IN "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" (AWS D1.1), TO PERFORM THE TYPE OF WORK REQUIRED. ALL CONNECTIONS SHALL BE BOLTED WITH 3/4" DIAMETER, A-325 HIGH
- STRENGTH BOLTS OR WELDED (UNLESS SHOWN OTHERWISE ON THE A. FULL DEPTH DOUBLE CLIP ANGLE CONNECTIONS ARE TO BE USED ON ALL GIRDER AND BEAM CONNECTIONS TO COLUMNS. BOLTS TO BE AT
- ALL CONNECTIONS TO HOLLOW STRUCTURAL SECTION (HSS) COLUMNS E TO BE THRU-PLATE UNLESS NOTED OTHERWISE.
- C. ALL CONNECTIONS SHALL BE DOUBLE ANGLES UNLESS NOTED OTHERWISE. MOMENT CONNECTIONS OR BRACED FRAMES SHALL FOLLOW THE AISC CODE FOR
- THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR DESIGNING THE CONNECTIONS AND PROVIDING SIGNED AND SEALED CALCULATIONS. 4. ALL ALUMINUM AND STEEL MEMBERS TO BE TREATED OR PROPERLY
- SEPARATED TO PREVENT GALVANIC AND CORROSIVE EFFECTS. ALL STEEL WELDING RODS SHALL BE E70XX ELECTRODES. 6. SUBMIT ALL STEEL SHOP DRAWINGS FOR APPROVAL PRIOR TO ANY
- 7. STAINLESS STEEL SHALL CONFORM TO THE LATEST AISC CODE. STAINLESS STEEL ROD MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM F593 (AISI 304). STAINLESS STEEL WASHERS SHALL MEET ANSI B18.22.1/LATEST TION, TYPE A PLAIN, REQUIREMENTS. STAINLESS STEEL NUTS SHALL MEET ASTM F594 REQUIREMENTS.
- PROVIDE ALL SUPPORTING STEEL NOT INDICATED ON PLAN AS REQUIRED FOR THE INSTALLATION OF MECHANICAL EQUIPMENT AND MATERIALS, INCLUDING ANGLES, CHANNELS, BEAMS, HANGERS, ETC. DO NOT SUPPORT EQUIPMENT OR PIPING FROM METAL DECKING. DECK SUPPORTS:
- PROVIDE 1/4" BENT PLATES AT ALL HIPS, VALLEYS, SKEWED BEAMS AND OTHER AREAS FOR DECK SUPPORT. 051 PREFABRICATED METAL ROOF TRUSSES 1. TRUSS SUBMITTALS AND DESIGN LOADS:

8. EQUIPMENT SUPPORTS:

- A. SHOP DRAWINGS AND DESIGN COMPUTATIONS: ENGAGE THE SERVICES OF A PROFESSIONAL DELEGATED ENGINEER
 - REGISTERED IN THE STATE OF FLORIDA TO PREPARE COMPLETE

- WORK OF THIS SECTION. DRAWINGS SHALL BEAR THE ENGINEER'S
 - THE SHOP DRAWINGS SHALL SHOW ALL PERTINENT DETAILS OF CONSTRUCTION, INSTALLATION, AND ANCHORAGE OF THE LIGHT GAUGE STEEL FRAMING WORK. THE STRUCTURAL DESIGN COMPUTATIONS SHALL PROVIDE A

SHOP DRAWINGS AND STRUCTURAL DESIGN COMPUTATIONS FOR

- COMPLETE STRUCTURAL ANALYSIS OF ALL TYPICAL AND SPECIAL CONDITIONS OF CONSTRUCTION, AND SHALL CERTIFY CONFORMANCE TO THE GOVERNING LAWS AND BUILDING CODES. STRICTLY FOLLOW L.G.S.E.A.'S "FIELD INSTALLATION GUIDE FOR COLD-FORMED STEEL ROOF TRUSSES" FOR THE PROPER STORAGE,
- B. METAL TRUSS MANUFACTURER TO DESIGN BOTTOM CHORDS OF METAL TRUSSES FOR A MINIMUM OF 20 PSF LIVE LOAD AND 20 PSF DEAD LOAD. BOTTOM CHORDS OF METAL ATTIC TRUSSES TO BE DESIGNED FOR 30 PSF MINIMUM LIVE LOAD. IN ADDITION TO THE LOADS SHOWN IN THE DESIGN LOAD SCHEDULE, THE SPECIALTY ENGINEER SHALL DESIGN FOR THE WEIGHT OF ALL MECHANICA PLUMBING AND ELECTRICAL EQUIPMENT AND FIXTURES, AS WELL AS CHANDELIER
- FIXTURES, BAR CABINETS, AND ART WORK / MOBILES. C. SAMPLES: SUBMIT REPRESENTATIVE SAMPLES OF ALL LIGHT GAUGE STEEL FRAMING COMPONENTS TO ARCHITECT FOR APPROVAL.
- D. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA FOR ALL COMPONENTS TO BE USED IN THE CONSTRUCTION AND ANCHORING OF THE LIGHT GAUGE STEEL FRAMING. INCLUDE SPECIFICATIONS,
- INSTALLATION INSTRUCTIONS. AND DATA SUBSTANTIATING THAT THE IATERIALS COMPLY WITH SPECIFIED REQUIREMENTS.

2. FRAMING COMPONENTS FOR METAL ROOF TRUSSES:

- A. 1. SYMMETRIC SHAPES SHALL BE 18-GAGE OR HEAVIER MEMBERS. SHALL BE MANUFACTURED FROM STEEL MEETING THE REQUIREMENTS OF ASTM A653, GRADE D WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI. MEMBERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A653 G60 COATING DESIGNATION. MAXIMUM SPACING OF TRUSSES
- B. TRACKS SHALL BE 18 GAUGE OR HEAVIER UN-PUNCHED TRACKS MANUFACTURED OF COMMERCIAL QUALITY STEEL SHEET MEETING OF 50,000 PSI. TRACKS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A653, G60 COATING DESIGNATION. PROVIDE SPECIAL SHAPED TRACKS WITH ONE 4 INCH HIGH LEG WHERE INDICATED ON
- BRIDGING SHALL BE MANUFACTURER'S RECOMMENDED TYPE AS REQUIRED TO MEET THE DESIGN CRITERIA SET FORTH ABOVE.
- ATTACHMENT ANGLES, CLOSURE ANGLES, AND OTHER MISCELLANEOUS COMPONENTS SHALL BE MANUFACTURED OF COMMERCIAL QUALITY STEEL SHEET MEETING THE REQUIREMENTS OF ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI AND SHALL BE FORMED TO PROFILES AS REQUIRED. ALL COMPONENTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A653, G60 COATING
- E. SUBCONTRACTOR SHALL COORDINATE TRUSS LOCATIONS WITH MECHANICAL TRADES. FIELD TOUCH UP
- TOUCH UP ALL FIELD WELDS AND ABRASIONS OF GALVANIZED MATERIALS WITH ZINC RICH PAINT IN ACCORDANCE WITH ASTM A 780, B. TOUCH UP WORK SHALL BE COMPLETED PRIOR TO ATTACHMENT OF THE WORK OF ANY OTHER SECTIONS TO THE LIGHT GAUGE STEEL FRAMING.

- ALL JOISTS SHALL HAVE A SHOP COAT OF RUST INHIBITIVE NON BITUMINOUS
- JOIST FABRICATOR SHALL HAVE A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA SIGN AND SEAL ALL STEEL JOIST SHOP DRAWINGS. THESE SHOP DRAWINGS SHALL CONTAIN A STATEMENT CERTIFYING THAT THE STEEL JOISTS CAN SAFELY RESIST THE WIND UPLIFT FORCES AS NOTED. IN ADDITION TO THE LOADS SHOWN IN THE DESIGN LOAD SCHEDULE, THE SPECIALTY ENGINEER SHALL DESIGN FOR THE WEIGHT OF ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND FIXTURES, AS WELL AS CHANDELIER
- STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED TO THE REQUIREMENTS OF THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE
- SERIES K JOISTS SERIES LH JOISTS SERIES DLH JOISTS SERIES SLH JOISTS
- SERIES G JOIST GIRDERS MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE. PROVIDE BRIDGING IN ACCORDANCE WITH SJI STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- JOIST SHALL HAVE THE FOLLOWING CAMBERS UNDER THEIR OWN 30' SPAN OR LESS - CAMBER = 0 30' SPAN TO 60' SPAN - CAMBER = 1" MAXIMUM

60' SPAN TO 100' SPAN - CAMBER = 1-1/2" MAXIMUM

4. JOIST MANUFACTURER MUST DESIGN BRIDGING ASSUMING NO BRACING IS PROVIDED BY THE ROOF DECK.

055 DECK 1. STEEL ROOF DECK SHALL BE:

- A. 1-1/2", 20 GA. TYPE B METAL DECK, GALVANIZED, WITH MINIMAL COATING CLASS OF G AS SHOWN ON ROOF PLAN AS MANUFACTURED BY VULCRAFT/NUCOR OF APPROVED EQUAL MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE. ROOF DECK MUST COMPLY WITH STEEL DECK INSTITUTE STANDARDS ALL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
- ROOF DECK WITH LIGHTWEIGHT INSULATING CONCRETE SHALL BE VENTED. ALL ROOF DECK TO BE DESIGNED, MANUFACTURED, AND INSTALLED IN ACCORDANCE WITH LATEST FACTORY MUTUAL STANDARDS.
- WELDING WASHERS ARE TO BE USED ON ALL CONNECTIONS OF STEEL DECK WITH METAL THICKNESS LESS THAN 22 GA. TO STRUCTURAL STEEL SUPPORTS. IN AREAS OF WARPED ROOF DECK, SELF DRILLING SCREWS ARE TO BE USED ON CONNECTIONS OF STEEL ROOF DECK TO STRUCTURAL STEEL SUPPORTS. SCREW SIZES TO COMPLY WITH MANUFACTURER'S AND FACTORY MUTUAL REQUIREMENTS. ATTACH DECK TO ALL SUPPORTING

SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS (MINIMUM OF 5 WELDS

PER SHEET PER JOIST). SIDE JOINTS SHALL BE FASTENED TOGETHER WITH #10 SELF DRILLING SCREWS AT MID SPAN BETWEEN SUPPORTS

5. 1-1/2" METAL ROOF DECK IS TO BE ATTACHED TO STRUCTURAL STEEL

FLOOR DECK TO BE GALVANIZE 9/16", 20 GAGE FORM DECK.

(MINIMUM OF 3 PER SPAN), UNLESS INDICATED OTHERWISE ON THE DRAWINGS. ROOF DECK WITH LIGHTWEIGHT INSULATING CONCRETE SHALL BE VENTED. G.C. SHALL VERIFY AND COORDINATE DECK FASTENING WITH ROOFING AND INSULATION NOA'S.

AS MANUFACTURED BY VULCRAFT/NUCOR OR APPROVED EQUAL. FLOOR

DECK MUST COMPLY WITH STEEL DECK INSTITUTE STANDARDS. AL

- LOOR DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS. 10. ALL ROOF DECK SHALL BE VENTED AND FILLED WITH LIGHTWEIGHT INSULATING CONCRETE (OR APPROVED EQUAL) WITH 2.5" MINIMUM THICKNESS. LIGHTWEIGHT
- 11. STEEL ROOF AND FLOOR DECK 20 GA OR THINNER SHALL BE GALVANIZED (G90) PER ASTM A653.

ALL STRUCTURAL WOOD MEMBERS ARE DESIGNED AS "DRY-USE". MOISTURE CONTENT MUST BE 19% OR LESS. STORE WOOD FRAMING ABOVE GROUND AND UNDER TARPS WITH PROPER AIR CIRCULATION. ALL LUMBER SHALL BE SOUTHERN PINE SPECIES #2 GRADE OR APPROVED EQUAL. ALLOWABLE DESIGN STRESSES SHALL FOLLOW NATIONAL DESIGN SPECIFICATION (NDS) (LATEST EDITION).

3. HEADERS AT NON BEARING CONDITIONS SHALL BE AS FOLLOWS: 4'- 0" TO 6'- 0 6'- 0" TO 9'- 0

PROVIDE SP ACQ PRESSURE TREATED LUMBER IN ACCORDANCE WITH AWPA STANDARDS TO A MINIMUM 0.40 PCF RETENTION WHERE LUMBER IS IN CONTACT

WITH CONCRETE/MASONRY OR OUTSIDE OF BUILDING. ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREADED LUMBER SHALL BE GALVANIZED WITH A RATING OF G-185 AND CONFORM TO ASTM A653. ALL NAILS AND SCREWS

USED WITH PRESSURE TREATED LUMBER ARE TO BE HOT-DIPPED GALVANIZED AND TO CONFORM TO ASTM A153 CLASS D. ELECTROGALVANIZED FASTENERS

SHALL HAVE A CLASS RATING PER ASTM B695 NO LESS THAN 55. ALUMINUM NOT TO BE USED IN DIRECT CONTACT WITH ACQ TREATED LUMBER

EXP. 1, PLYWOOD SHEATHING

EDGES AND END JOINTS.

PLYWOOD SHEATHING:

FLOOR: USE 3/4" T&G APA 24oc STURD-I-FLOOR, EXP. 1, PLYWOOD SUB-FLOOR SHEATHING.

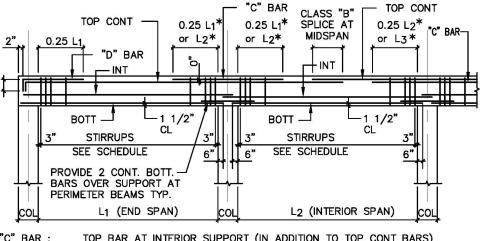
B. WALL: Use (15/32" OR 19/32") APA 32/16 RATED, STRUCTURAL 1,

USE 8'- 0" LONG X 4'-0" WIDE SHEETS WITH LENGTH ACROSS FRAMING.

STAGGER PANEL END JOINTS 4'-0" TYP., ALLOW 1/8" SPACE ALONG PANEL

ROOF: Use (19/32" OR 23/32") 40/20 RATED, STRUCTURAL 1, EXP. 1, PLYWOOD SHEATHING. D. SEE FRAMING PLANS FOR NAILING AND/OR BLOCKING REQUIREMENTS.

- E. FLOOR SHEATHING TO BE SCREWED WITH #10 WOOD SCREWS AT 6" O.C. AND GLUED FOR PARTIAL COMPOSITE ACTION. SELECT ADHESIVE WITH APA AFG-01 SPECIFICATION AND FOLLOW APA RECOMMENDATIONS.
- SEE FRAMING PLANS FOR DIAPHRAGM NAILING TYPE, SIZE, SPACING AND
- WOOD CONNECTIONS ALL NAILS USED FOR STRUCTURAL FRAMING MEMBERS SHALL BE COMMON WRE, U.N.O. ALL NAILS, TRUSS HANGERS, TRUSS ANCHORS AND STRAPS SHALL BE GALVANIZED FOR CORROSIVE RESISTANCE. ALL METAL STRAPS MUST BE INSTALLED WITH EQUAL LENGTHS ABOUT THE JOINT LINE. USE SIMPSON STRONG—TIE CONNECTOR PRODUCTS OR APPROVED EQUAL. TOE NAILING WILL NOT BE PERMITTED



TOP BAR AT INTERIOR SUPPORT (IN ADDITION TO TOP CONT BARS) PLACE IN SAME LAYER AS TOP CONT BARS (U.O.N.). LOCATE AT RIGHT SUPPORT OF SPAN INDICATED IN SCHEDULE.

TOP BAR AT EXTERIOR SUPPORT (IN ADDITION TO TOP CONT BARS)

PLACE IN SAME LAYER AS TOP CONT BARS (U.O.N.). INTERMEDIATE BARS LOCATED AT A SPACING EQUAL TO THE WIDTH OF THE BEAM BUT NOT GREATER THAN 12" ABOVE BOTT BARS. IF MORE THAN ONE PAIR, PLACE IN LAYERS OF TWO. CLASS "B" DIAGRAM A

TENSION SPLICE (3000 PSI) WHICHEVER IS GREATER. INTERIOR BEAM SPANDREL BEAM NOTES WHEN ADJACENT BEAMS OR TIE BEAMS HAVE TOP CONT BARS OF DIFFERENT SIZE,

(2L) — INDICATES BARS PLACE IN TWO LAYERS. WHERE BARS ARE PLACED IN TWO LAYERS, THE SECOND LAYER BARS MUST BE PLACED DIRECTLY UNDER BARS IN THE FIRST LAYER (IF TOP BAR) OR DIRECTLY OVER BAR IN THE FIRST LAYER (IF BOTT BAR). PROVIDE 1" CLEAR DISTANCE BETWEEN LAYERS OR ONE BAR DIAMETER, WHICHEVER IS

H" INDICATES BEAM DEPTH DIMENSION. LESS 3/4" FOR RECESS FOR BLOCK WALL

DEDUCTED WHERE APPLICABLE, OR MINIMUM DEPTH IN A VARIABLE DEPTH BEAM.

NOTE: HOOK HORIZONTAL BARS AT ENDS.

SCHEDULED BEAM SIZES : [SEE DIAGRAM A]

BLOCK WIDTH (7.5/8" or 11.5/8").

THE TRANSITION SHOULD BE MADE AT MIDSPAN OF THE BEAM WITH SMALLER SCHEDULED

COORDINATE BEAM CONFIGURATION WITH ARCHITECTURAL DRAWINGS. TYPICAL BEAM BAR PLACEMENT DIAGRAM

"B" INDICATES BEAM WIDTH DIMENSION. WHEN BEAM IS OVER A BLOCK WALL, USE ACTUAL

		N. 1.3			
CONCRETE WALL SCHEDULE					
MARK	THICKNESS	REINFORCING			
CW-1	8" CONCRETE WALL	#5 @ 12"o.c. E.F. VERT. & HORIZ.			
CW-2	12" CONCRETE WALL	#6 @ 12"o.c. E.F. VERT. & HORIZ.			

MASONRY WALL SCHEDULE MARK THICKNESS REINFORCING 8" CMU (f'm=2500 psi) #6 @ 16" o.c. MW-2 8" CMU (f'm=2500 psi) #6 @ 48" o.c

#6 @ 24" o.c

#6 @ 48" o.c

CONCRETE COLUMN SCHEDULE

12" CMU (f'm=2500 psi)

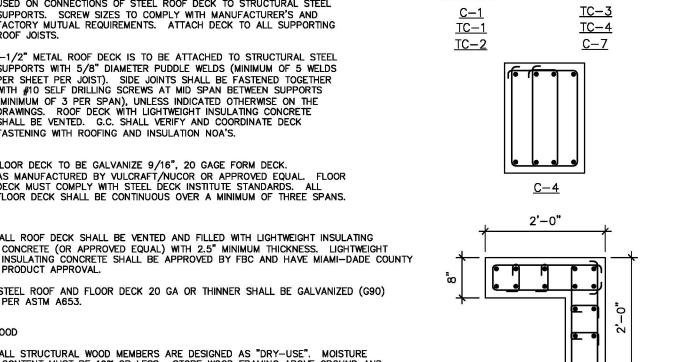
MW-3 8" CMU (f'm=2500 psi)

1. WALL SEGMENTS SHALL BE REINFORCED WITH 9 GA. GALVANIZED LATERAL REINFORCING @ 16" O.C. HORIZ. EXTEND REINFORCING

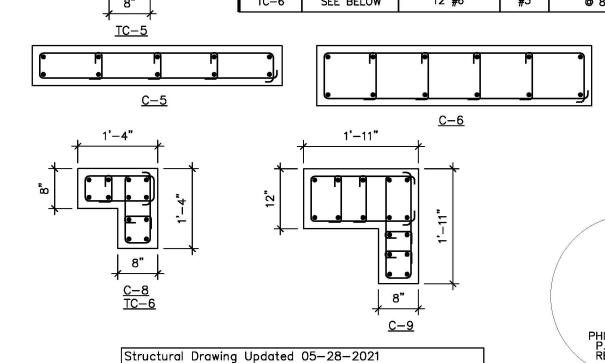
6" INTO POURED ELEMENTS AND AROUND ENCASED STEEL.

2. ADJACENT TO ANY EXTERIOR/INTERIOR WALL OPENING, PLACE (1)

MATCHING VERTICAL IN CELL GROUTED SOLID, FULL HEIGHT 3. ALL MASONRY REINFORCED CELLS SHALL BE FILLED WITH 3000 PSI GROUT MIX. 4. AT END, CORNERS, AND INTERSECTION OF WALLS PLACE (1) MATCHING VERTICAL IN CELL GROUTED SOLID, FULL HEIGHT.



SIZE VERT. **IARK** SPACING REINF (inches) 4 #5 @ 8"o.c. 8 x 12 SEE DETAIL " ON S-2.11 C-2C-38 x 16 4 #6 @ 8"o.c. C-417 x 22 8 #6 @ 8"o.c. $8 \times 45/48$ 10 #6 C-5 @ 8"o.c. C-6 12 x 55 12 #7 @ 8"o.c. C-7 8 x 24 6 #6 @ 8"o.c. C-8 SEE BELOW 12 #6 @ 8"o.c. 16 #6 C-9 SEE BELOW @ 8"o.c. C-10 16 #6 @ 8"o.c. C-11 TC-1 8 x 16 4 #5 @ 8"o.c. TC-2 8 x 16 4 #6 @ 8"o.c. TC-3 12 x 24 6 #6 @ 8"o.c. TC-4 8 x 24 6 #6 @ 8"o.c. 12 #6 TC-5 SEE BELOW @ 8"o.c. TC-6 SEE BELOW 12 #6 @ 8"o.c.



Based on Architectural Backgrounds Dated 05—28—2021



 EXTEND AND HOOK WALL REINFORCING INTO TIE—BEAM 2. STIRRUPS AT 6"o.c. OVER OPENINGS AND 12"o.c. REMAINDER. 3. * INDICATES 3 LAYERS OF REINFORCEMENT

ARK	SIZE	REINFORCING	
F40	4'-0" x 4'-0" x 12"	4 #5 BOTTOM EACH WAY	
F50	5'-0" x 5'-0" x 12"	10 #4 BOTTOM EACH WAY	
F50A	5'-0" x 5'-0" x 16"	10 #4 TOP AND BOTTOM EACH WAY	
F60	6'-0" x 6'-0" x 14"	8 #5 BOTTOM EACH WAY	
F60A	6'-0" x 6'-0"x 14"	8 #5 TOP & BOTTOM E.W. HOOKED AT BEAM	
60.14	6'-0" x CONT. x 14"	7 #5 CONT BOTTOM & #5 © 8"o.c. TRANSVERSE BOTTOM	
F70	7'-0" x 7'-0" x 18"	7 #6 BOTTOM EACH WAY	
F80~	8'-0" x 8'-0" x 19"	7 #7 BOTTOM EACH WAY	
F90	9'-0" x 9'-0" x 19"	7 #8 BOTTOM EACH WAY	
8530	8'-6" x 3'-0" x 18"	4 #5 1&B HOOKED AT ENDS IN LG DIR. AND #5 @ 9"o.c. BOTT. HOOKED AT ENDS IN SHORT. DIR.	_
9046	9'-0" x 4'-6" x 20"	7 #5 BOTTOM IN LONG DIR. AND #5 @ 9*o.c. BOTT. IN SHORT. DIR.	_
9070	9'-0" x 7'-0" x 16"	8 #5 BOTTOM IN LONG DIR. HOOKED AT ENDS AND #5 © 9"o.c. BOTT. IN SHORT. DIR. HOOKED AT ENDS	R
16565	16'-6" × 6'-6" × 18"	7 #8 TOP AND BOTTOM IN LONG DIR. AND #5 @ 9"o.c. BOTT. IN SHORT. DIR.	
20.12	2'-0" x CONT. x 12"	2 #5 CONT BOTTOM & #5 © 48"o.c. TRANSVERSE	
30.12	3'-0" x CONT. x 12"	3 #5 CONT BOTTOM & #5 © 24"o.c. TRANSVERSE	10
40.16	4'-0" x CONT. x 16"	5 #5 CONT BOTTOM & #5 @ 12"o.c. TRANSVERSE BOTTOM	R
45.12	4'-6" x CONT. x 12"	4 #5 CONT BOTTOM & #5 @ 12"o.c. TRANSVERSE BOTTOM	=
50.12	5'-0" × CONT. × 12"	5 #5 CONT BOTTOM & #5 © 10"o.c. TRANSVERSE BOTTOM	

6 #5 CONT BOTTOM & #5 @

10"o.c. TRANSVERSE BOTTOM

7 #5 CONT BOTTOM & #5 @

8"o.c. TRANSVERSE BOTTOM

STEEL COLUMN SCHEDULE						
MARK	SIZE	BASE P	A.B.	REM		
SC-1	HSS6x6x5/16"	12x12x3/4"	(4) 3/4"ø	-		
SC-2	HSS8x8x5/16"	14x14x7/8"	(4) 3/4"ø			
SC-3	HSS6x6x1/2"	12x12x3/4"	(4) 3/4"ø			
SC-4	HSS6x6x1/4"	12x12x1/2"	(4) 3/4"ø			
SC-5	HSS6x6x5/8"	12x12x7/8"	(4) 3/4°ø			
SC-6	HSS8x8x3/8"	14x14x7/8"	(4) 3/4"ø			
SC-7	HSS8x8x1/4"	14x14x3/4"	(4) 3/4"ø			
SC-8	HSS10x10x1/2"	16x16x3/4"	(4) 3/4"ø			
SC-9	HSS4x4x1/4"	10x10x3/4"	(4) 3/4"ø			

F50.12

F55.13

5'-5" x CONT. x 13"

6'-0" x CONT. x 14"

CONSTRUCTION DOCS. 5/28/21

THESE ARE PROGRESS DRAWINGS, THEREFORE THEY ARE ISSUED PRIOR TO COMPLETION OF THE STRUCTURAL DESIGN, AND OTHER DESIGN DISCIPLINES. INCLUDING BUT NOT LIMITED TO ARCHITECTURAL OR MECHANICAL DESIGNS; AND AS SUCH, ARE INCOMPLETE BY NATURE FOR THE COMPREHENSIVE SCOPE OF THE PROJECT. ALLOWANCES FOR STRUCTURAL ELEMENTS REQUIRED DUE TO THE COMPLETION AND CROSS-COORDINATION OF ALL OTHER DISCIPLINES SHOULD BE MADE.



Interiors **Planners** CORP# AA0002447 Est. 1988

Rick Gonzalez, AIA President FL License AR0014172 120 South Olive Ave. Ste. 210, West Palm Beach, FL 33401

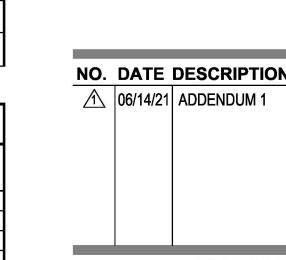
P (561) 659-2383

www.regarchitects.com

ROYAL PALN

BEACH

1050 Royal Palm Beach Blvd. Royal Palm Beach, FL 33411



DATE

DESIGNER

DRAWN

CHECKED REG# © REG 2020

OWNERSHIP AND USE OF THESE

DOCUMENTS & SPECIFICATIONS AS

INSTRUMENTS OF SERVICE ARE AND

SHALL REMAIN THE PROPERTY OF THE

ARE MADE FOR IS EXECUTED OR NOT

OR OTHERS ON OTHER PROJECTS OF

FOR ADDITIONS TO THIS PROJECT B

WRITING AND WITH APPROPRIATE

OTHERS, EXCEPT BY AGREEMENT IN

ARCHITECT WHETHER THE PROJECT THEY

THEY SHALL NOT BE USED BY THE OWNER

COMPENSATION TO THE ARCHITECT Structural Notes and Schedules

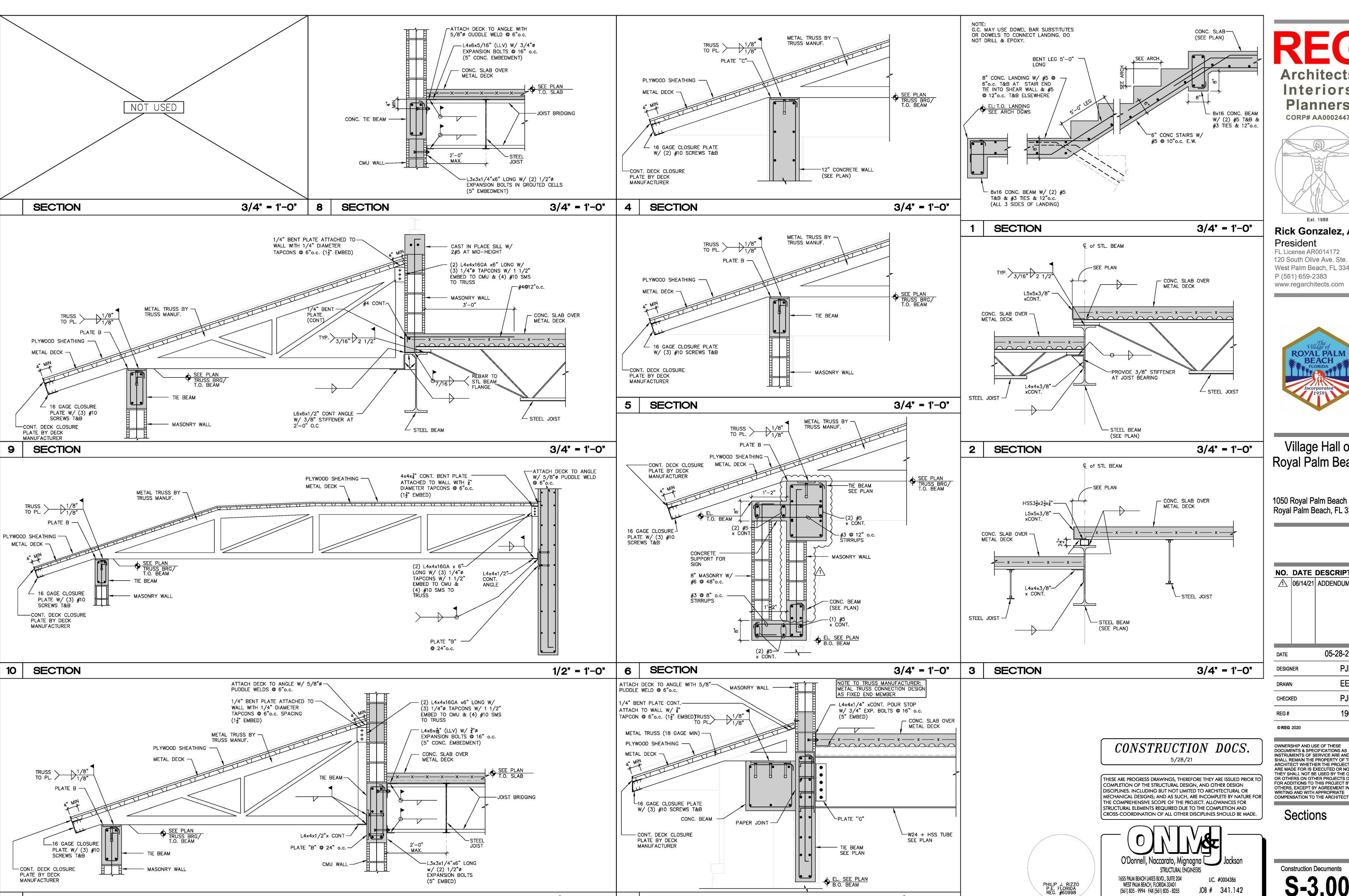
05-28-2021

PJR

PJR

19024

Construction Decuments

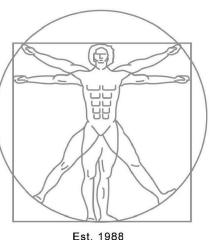


3/4" = 1'-0"

SECTION

SECTION

Interiors **Planners** CORP# AA0002447



Rick Gonzalez, AIA President

FL License AR0014172 120 South Olive Ave. Ste. 210, West Palm Beach, FL 33401 P (561) 659-2383 www.regarchitects.com



Village Hall of Royal Palm Beach

1050 Royal Palm Beach Blvd. Royal Palm Beach, FL 33411

NO. DATE DESCRIPTION 1 06/14/21 ADDENDUM 1

05-28-2021 PJR EEN PJR

19024

© REG 2020

OWNERSHIP AND USE OF THESE **DOCUMENTS & SPECIFICATIONS AS** INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT THEY ARE MADE FOR IS EXECUTED OR NOT. THEY SHALL NOT BE USED BY THE OWNER OTHERS, EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE

Sections

Construction Decuments

JOB # 341.142

(561) 835 - 9994 FAX (561) 835 - 8255

3/4" = 1'-0"