STRUCTURAL ABBREVIATIONS ANCHOR BOLT LENGTH AROVE LONG A.C.I. AMERICAN CONCRETE INSTITUTE LIVE LOAD ADD'L ADDITIONAL LONG LEG HORIZONTAL LONG LEG VERTICAL A.F.F. ABOVE FINISH FLOOR A.I.S.C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION LONG LONGITUDINAL A.I.S.I. LOW POINT AMERICAN IRON AND STEEL INSTITUTE AI T AI TERNATE ARCH ARCHITECT / ARCHITECTRUAL AMERICAN SOCIETY OF TESTING MATERIALS MASONRY A.W.S. AMERICAN WEI DING SOCIETY MAX MAXIMUM M.B. MASONRY BEAM METAL BUILDING MANUFACTURER MBM **BOTTOM OF** MOMENT CONNECTION BLDG. MASONRY CONTROL JOINT BUII DING BLW BFI OW MECH MECHANICAL MEZZANINE OR MECH PLATFORM BEAM MEZZ BOT BOTTOM MFR MANUFACTURE OR MANUFACTURER BOND BEAL MIN MINIMUM BASE PLAT MOM MOMENT MASONRY OPENING BRDG BRIDGING M.O. BRG **BEARING** MTL METAL BRK BRICK B.S. BOTH SIDES BTWN BETWEEN NEAR SIDE N.S. NTS NOT TO SCALE **CENTER TO CENTER** CONCRETE BEAM **OVER BUILT** CANT O.B. CANTILEVER ON CENTER CONCRETE COLUMN C.I.P. CAST IN PLACE OUTSIDE DIAMETER O.F. OUTSIDE FACE CONTROL JOINT C OR CL OPNG CENTERI INF OPFNING OPP OPPOSITE C.M.U. CONCRETE MASONRY UNIT COL COORD COORDINATE P.A.F. POWER ACTUATED FASTENER CONC CONCRETE PRECAST PERPENDICULAR CONN CONNECTION PERP CONT CONTINUOUS PRE-ENGINEERED P OR PL CONTR CONTRACTOR PLATE CONST CONSTRUCTION PLY PLYWOOD CS.J **CONSTRUCTION JOINT** P.L.F. POUNDS PER LINEAR FOOT CTR CENTER CTR'D PRFMANUF CENTERED PRE-MANUFACTURED PREFAB PRE-FABRICATED POUNDS PER SQUARE FOOT DOUBLE P.S.I. POUNDS PER SQUARE INCH PTN PARTITION DEADLOAD PRESSURE TREATED DIAMETER DIAG DIAGONAL DIM DIMENSION DIST DISTANCE RADIUS REF DOWN REFERENCE OR REFER DETAIL REINF REINFORCE(D) OR REINFORCING DTL DWG(S) DRAWING(S REQ REQUIRE REQ'D REQUIRED REVIEWED REV EACH ROOF EACH END RTN RETURN **FACH FACE** RW RETAINING WALL **EXPANSION JOINT** ENG ENGINEER SCHEDULE ELEVATION SCH SECT SECTION FQUAI STEEL DECK INSTITUTE EQUAL SPACING EACH SIDE STEP FOOTING **FACH WAY EXTERIOR** SIMILAR SAWCUT JOINT STEEL JOIST INSTITUTE FACE OF FLOOR DRAIN SPACE OR SPACES FINISH FLOOF **SPECIFICATIONS FOUNDATION** SQUARE STAINLESS STEEL FINISH FI OOR STD STANDARD FAR SIDE STEEL FOOT STR STRENGTH FTG SHEAR WALL FOOTING S.W. SYMM SYMMETRICAL GAGE OR GAUGE GALV T.B. TIE BEAM GAI VANIZED TOP & BOTTOM GRADE BEAM T&B G.C. TEMP GENERAL CONTRACTOR TEMPERATURE THD THREADED THK THICK HOOK THICKENED SLAB HK. THNS TOP'G HORIZ HORIZONTAL TOPPING TYP. HIGH POINT TYPICAL HSA HEADED STUD ANCHOR TOP OF SLAB **TRANS** HEIGHT TRANSVERSE UNLESS NOTED OTHERWISE INSIDE DIAMETER UNO INSIDE FACE INT INTERIOR **VERT** VERTICAL JOIST JOINT WALL FOOTING OR CONT FOOTING W.F. WINDOW OPENING KIP (1000 LBS) W.P. WORK POINT KNOCK OUT WEIGHT WT K.O. KWY WELDED WIRE FABRIC (MESH) **KEYWAY** W.W.F.

GOVERNING CODES AND STANDARDS

THE STRUCTURAL DESIGN AND ALL WORK REFERENCED HEREIN SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS. USE THE LATEST EDITION UNLESS NOTED OTHERWISE.

- 1. "FLORIDA BUILDING CODE" FBC 2023, 8TH EDITION
- 2. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" ASCE 7-22.
- 3. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318-19.
- 4. "ACI MANUAL OF CONCRETE PRACTICE" PARTS 1 THROUGH 5 LATEST EDITION.
- 5. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 360-16

- "STRUCTURAL WELDING CODE STEEL" AWS D1.1-2020.
- 7. "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES" TMS 402/602-16.
- 8. "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLEMENT 2" - AISI S100-16(2020) w/S2-20.

GENERAL CONDITIONS

- 1. THE GENERAL CONTRACTOR SHALL REVIEW AND VERIFY THAT ALL DIMENSIONS ARE COORDINATED BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- 2. THE GENERAL CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS AT THE PROJECT SITE AND SHALL NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
- 3. THESE STRUCTURAL DRAWINGS ARE TO BE USED IN COMBINATION WITH THE ARCHITECTURAL, MECHANICAL ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS, AND ANY OTHER PROJECT CONTRACT DOCUMENTS NOT LISTED. REFER TO THESE DRAWINGS FOR DETAILS AND INFORMATION THAT MAY RELATE TO STRUCTURAL COMPONENTS.
- 4. THESE STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS, IF PROVIDED, REPRESENT THE COMPLETED DESIGN OF THE STRUCTURE. THEY DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE CONSTRUCTION SITE.
- OBSERVATION VISITS TO THE SITE BY THE EOR OR REPRESENTATIVES OF THE EOR MAY BE MADE DURING CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED BY THE EOR SHALL BE DISTINGUISHED FROM INSPECTION AND/OR TESTING SERVICES PERFORMED BY OTHERS AND ARE NOT TO BE CONSTRUED AS SUPERVISION AND/OR MANAGEMENT OF CONSTRUCTION.
- 6. THE OWNER WILL ENGAGE A QUALIFIED, APPROVED TESTING AGENCY TO PROVIDE SERVICES AS INDICATED BELOW. SUBMIT REPORTS TO STRUCTURAL ENGINEER AND ARCHITECT.
- A. TEST SOIL COMPACTION PER LATEST GEOTECHNICAL REPORT (U.N.O.)
- B. TEST CONCRETE IN ACCORDANCE WITH ASTM C172 AND C31. C. VISUALLY INSPECT FIELD WELDS, BOLTED CONNECTIONS, AND OTHER STRUCTURAL STEEL CONNECTIONS. ALL FIELD WELDS SHALL BE INSPECTED BY A CERTIFIED WELD INSPECTOR.
- 7. SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR APPROVAL OF ANY PROPOSED CHANGE TO THE REQUIREMENTS OF THESE STRUCTURAL DRAWINGS OR CONTRACT DOCUMENTS. SPLICING, CUTTING, NOTCHING OR OTHER ALTERATIONS TO STRUCTURAL MEMBERS WILL NOT BE PERMITTED WITHOUT WRITTEN AUTHORIZATION OF THE ENGINEER.
- IN THE CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DRAWINGS, GOVERNING BUILDING CODES, AND/OR SPECIFICATIONS. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

SHOP DRAWINGS AND SUBMITTALS

- 1. THE GENERAL CONTRACTOR SHALL FOLLOW THE ARCHITECT'S INSTRUCTIONS FOR DISTRIBUTION OF SHOP DRAWINGS.
- 2. SHOP DRAWING REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. CORRECTIONS OR COMMENTS MADE ON THIS REVIEW DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND/OR OMISSIONS, NOR FROM COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- 3. APPROVAL OF SHOP DRAWINGS DOES NOT INDICATE AN ACCEPTANCE OF DEVIATIONS FROM THE CONTRACT DOCUMENTS OR PREVIOUS SHOP DRAWING REVIEW, UNLESS SPECIFICALLY NOTED THEREIN BY ENGINEER OF RECORD.
- 4. ANY PROPOSED CHANGE TO THE DESIGN CONCEPTS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO SUBMITTING SHOP DRAWINGS. ALL SUCH CHANGES SHALL BE "CLOUDED" ON THE SHOP DRAWINGS AND REFERENCED TO THE PROPER R.F.I. NUMBER.
- 5. DETAILER SHALL BE RESPONSIBLE FOR CHECKING ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENINGS AND EMBEDS AFFECTING STRUCTURAL MEMBERS.
- 6. SHOP DRAWINGS SHALL BEAR THE INITIALS OF THE DETAILER'S CHECKER AND SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT AND ENGINEER OF RECORD.
- 7. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, IN WHOLE OR IN PART, BY ANY CONTRACTOR SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SHALL SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATED HIMSELF TO ANY JOB
- 8. IF REPRODUCTIONS OF THESE CONTRACT DRAWINGS ARE USED IN LIEU OF PREPARATION OF SHOP DRAWINGS, THE ARCHITECT'S, ENGINEER'S OR OTHER DESIGN CONSULTANT'S TITLE BLOCK SHALL BE REMOVED AND REPLACED WITH A TITLE BLOCK LISTING THE FOLLOWING ITEMS.

EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

- A. NAME, ADDRESS, AND CONTACT NUMBER OF CONTRACTOR, SUBCONTRACTOR, ETC. SUBMITTING SHOP DRAWINGS.
- B. SHEET NUMBER.
- C. DATE DRAWING WAS PREPARED, THE INITIALS OF THE PERSON WHO PREPARED THE DRAWINGS, AND THE INITIALS OF THE PERSON WHO CHECKED THE DRAWINGS.
- ANY REPRODUCTION OF THESE CONTRACT DRAWINGS NOT COMPLYING WITH THE ABOVE WILL BE REJECTED.
- 10. SOME STRUCTURAL SYSTEMS INCLUDED IN THESE CONTRACT DRAWINGS ARE INDICATED AS "DESIGNED BY SPECIALTY" OR "DELEGATED ENGINEER." DELEGATED ENGINEERING SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 11. CALCULATIONS AS REQUIRED BY THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE SUBMITTED WITH THE REQUIRED SHOP DRAWINGS, ALL DELEGATED ENGINEERING SUBMITTALS SHALL REQUIRE CALCULATIONS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 12. SHOP DRAWING AND DELEGATED ENGINEERING SUBMITTAL REQUIREMENTS:
- A. INFORMATION SUBMITTALS
- a. CONCRETE MIX DESIGNS & MISC. PRODUCT DATA b. MASONRY UNITS & GROUT MIX DESIGN
- EPOXY AND MECHANICAL ANCHORS d. MISCELLANEOUS
- B. SHOP DRAWING SUBMITTALS a. REINFORCING STEEL
- b. STRUCTURAL STEEL, MISC STEEL EMBEDS/CONNECTIONS
- c. OPEN-WEB STEEL JOISTS & METAL DECKING d. MISCELLANEOUS
- C. DELEGATED ENGINEERING SUBMITTALS
- a. PRE-FABRICATED/PRE-ENGINEERED CANOPIES, AWNINGS, ETC.
- b. COLD-FORMED METAL STUD FRAMING

POST-INSTALLED ANCHORS NOTES

- 1. POST-INSTALLED ANCHOR SYSTEMS SHALL COMPLY WITH THE LATEST REVISION OF ICC-ES ACCEPTANCE CRITERIA AC308 AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH ALL APPLICABLE CODES.
- 2. POST-INSTALLED ANCHOR SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH ALL WRITTEN MANUFACTURER INSTRUCTIONS INCLUDING ANY SPECIAL EQUIPMENT REQUIRED.
- 3. THE PRODUCTS LISTED BELOW ARE THE BASIS OF DESIGN FOR THIS PROJECT. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO INSTALLATION. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS THAT HAVE A CODE REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION AND PROJECT BUILDING CODE. SUBSTITUTION SUBMITTALS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.
- 4. BASIS OF DESIGN FOR POST-INSTALLED ANCHORS:
- A. ADHESIVE ANCHORS (EPOXY ANCHORS):
- INTO CONCRETE: ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. ADHESIVE ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER WHERE DESIGNATED ON THE CONTRACT
 - DOCUMENTS. PRE-APPROVED PRODUCTS INCLUDE: HILTI HIT-HY 200
- SIMPSON STRONG-TIE SET-XP
- SIMPSON STRONG-TIE AT-XP b. ANCHORING SYSTEMS SHALL UTILIZE TRADITIONAL PREPARATION OF THE ANCHOR HOLE (BLOWING OR BRUSHING) PER THE MANUFACTURER'S WRITTEN REQUIREMENTS. OTHER METHODS SHALL NOT BE USED
- WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. ANCHORING ADHESIVE SHALL BE A TWO-PART COMPONENT 100% SOLID EPOXY BASED SYSTEM SUPPLIED

d. THREADED RODS TO BE USED IN COMBINATION WITH EPOXY SYSTEM SHALL BE FABRICATED FROM STEEL

- THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THIS REQUIREMENT SHALL BE MET REGARDLESS OF WHICH EPOXY PRODUCT OR MANUFACTURER IS USED.
- MEETING OR EXCEEDING THE PROPERTIES OF ASTM A36.

B. MECHANICAL ANCHORS (EXPANSION / WEDGE / SCREW ANCHORS):

- a. INTO CONCRETE: ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR
- CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED MECHANICAL ANCHOR PRODUCTS INCLUDE:
- HILTI KIWK HUS-EZ (SCREW ANCHOR) HILTI KWIK-BOLT TZ OR KWIK BOLT TZ 2 (EXPANSION ANCHORS)
- SIMPSON STRONG-TIE TITEN-HD (SCREW ANCHOR) SIMPSON STRONG-TIE STRONG-BOLT 2 OR WEDGE-ALL (EXPANSION ANCHORS)

- FOUNDATION AND GEOTECHNICAL NOTES
- 1. REFERENCE THE GEOTECHNICAL REPORT COMPLETED FOR THIS SITE FOR FURTHER INFORMATION RELATING TO THE EXISTING SUBSURFACE SOIL CONDITIONS AND REQUIRED SITE PREPARATION PROCEDURES:
- A. COMPANY NAME: UNIVERSAL ENGINEERING SCIENCES B. DATE: MAY 24, 2018
- C. REPORT NUMBER: UES REPORT No. 1569297
- 2. THE ALLOWABLE NET SOIL BEARING PRESSURE IS 3,000 PSF. THIS DESIGN SOIL BEARING PRESSURE IS BASED ON THE ACCEPTED COMPLETION OF ALL RECOMMENDATIONS AND REQUIREMENTS IN THE REFERENCED GEOTECHNICAL REPORT
- 3. ALL REQUIREMENTS FOR SITE PREPARATION AND SOIL COMPACTION SPECIFIED IN THE GEOTECHNICAL REPORT SHALL BE FOLLOWED UNLESS ADDITIONAL MORE STRINGENT REQUIREMENTS ARE SPECIFIED. A CERTIFIED TESTING AGENCY SHALL PERFORM SOIL DENSITY AND COMPACTION TESTS TO ENSURE CONFORMANCE WITH THE GEOTECHNICAL REPORT. SUBMIT ALL TESTS RESULTS TO THE PROJECT ARCHITECT AND ENGINEER. TEST PER THE FOLLOWING:
 - A. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL LAYER, AT LEAST ONE TEST FOR EVERY 2000 SQ. FT., BUT IN NO CASE FEWER THAN 3 TESTS.
 - B. FOOTINGS: AT EACH COMPACTED BACKFILL LAYER AT EACH FOOTING OR ONE TEST FOR EACH 50 FT. OF WALL FOOTING.
 - C. CONTRACTOR SHALL RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
- 4. CONTRACTOR, IN CONJUNCTION WITH THE PROJECT GEOTECHNICAL ENGINEER, SHALL VERIFY EXISTING FIELD CONDITIONS DURING EXCAVATION THAT MAY AFFECT THE ALLOWABLE BEARING PRESSURE AND / OR THE INSTALLATION OF THE FOUNDATION SYSTEM PRIOR TO STARTING WORK.
- 5. ALL FOOTINGS SHALL BE CENTERED UNDER THE COLUMN OR WALL ABOVE UNLESS NOTED OTHERWISE
- 6. CONCRETE FOR THE FOUNDATIONS SHALL BE PLACED WITHIN 24 HOURS OF THE SUB-GRADE APPROVAL BY THE PROJECT GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE
- TERMITE TREATMENT:
- A. TERMITE TREATMENT REQUIREMENT BY FBC 110.3.12 FOR ALL CONSTRUCTION.
- B. FOR EXTERIOR CONCRETE AGAINST THE BUILDING: THE SOILS MUST BE TREATED FOR SUBTERRANEAN TERMITES PER FBC 1816.1.6 AND PROTECTED WITH A VAPOR RETARDER PER FBC 1816.1.4.
- TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMICIDES, INCLUDING SOIL APPLIED PESTICIDES BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELLED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION, PER FBC FOR REGISTERED TERMICIDE. UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

CONCRETE SLAB ON GROUND NOTES

- THE CONCRETE SLAB ON GROUND FOR THIS PROJECT IS PRESCRIPTIVE. NO STRUCTURAL DESIGN HAS BEEN PROVIDED.
- THE CONCRETE SLAB ON GROUND HAS BEEN SPECIFIED BASED ON THE FOLLOWING ASSUMPTIONS.
- A. MINIMUM SOIL BEARING PRESSURE OF 3000 PSF. B. SOIL CONSTANT "K" VALUE ASSUMED TO BE 100 PSI / IN.
- 3. THE SLAB ON GRADE CAN ACCOMMODATE A WORKING UNIFORM LOAD OF 500 PSF BASED ON SLAB THICKNESS AND GEOTECHNICAL CONSIDERATIONS.
- 4. THE FOLLOWING GUIDELINES SHALL APPLY TO THE LAYOUT OF CONTRACTION / CONTROL JOINTS IN THE SLAB. THESE JOINTS SHALL BE PROVIDED AT THE FOLLOWING SPACINGS (MAXIMUM):
- A. 14'-0" ON CENTER FOR 6" SLABS AND THINNER B. 15'-0" ON CENTER FOR 7" SLABS AND THICKER
- CONTRACTOR SHALL PROVIDE MM-80 SEMI-RIGID EPOXY JOINT FILLER (OR APPROVED EQUAL) AT ALL SAW-CUT JOINTS IN THE SLAB THAT ARE EXPECTED TO RECEIVE FORKLIFT TRAFFIC (OR OTHER MATERIAL HANDLING VEHICLE WHEEL TRAFFIC) AND/OR HEAVY RACKING OR POST LOADING. JOINT FILLER INSTALLATION SHALL BE DEFERRED FOR 90-120 DAYS TO ALLOW FOR SUFFICIENT WIDENING OF JOINTS DURING CURING. SAW-CUT JOINTS IN REFRIGERATED AREAS SHALL BE FILLED AFTER AREA IS STABILIZED AT FINAL OPERATING TEMPERATURES FOR A MINIMUM OF 5 DAYS FOR COOLERS AND
- 6. THE SLAB ON GRADE SHALL MEET THE FOLLOWING FLATNESS / LEVELNESS (FF / FL) REQUIREMENTS:
- A. TYPICAL FLOOR SLAB: FF 45 / FL 35
- 7. PROVIDE ALL LABOR, PRODUCTS, AND EQUIPMENT REQUIRED TO PROPERLY INSTALL AN UNDERSLAB VAPOR RETARDER UNDER ALL INTERIOR CONCRETE FLOOR SLABS ON GROUND. REFER TO DRAWINGS FOR REQUIRED LOCATIONS.
- 8. VAPOR RETARDER MATERIAL SHALL BE A MULTILAYER POLYETHYLENE SHEET MATERIAL CONFORMING TO ASTM E 1745, CLASS "A", FOR A 15 MIL THICKNESS. VAPOR RETARDER SHALL HAVE A WATER VAPOR PERMEANCE OF LESS THAN 0.0254 PERMS ACCORDING TO ASTM F 1249. STEGO WRAP CLASS A VAPOR RETARDER OR APPROVED EQUAL.
- 9. PROVIDE ALL REQUIRED ACCESSORY MATERIALS BY THE VAPOR RETARDER, INCLUDING SEAM TAPE AND MASTIC. ACCESSORY MATERIALS SHALL HAVE A WATER VAPOR PERMEANCE OF 0.3 PERMS OR LOWER ACCORDING TO ASTM E 96.
- 10. INSTALLER SHALL PROCEED WITH APPLICATION OF THE VAPOR RETARDER ONLY AFTER SUBSTRATE CONSTRUCTION AND PENETRATING WORK HAVE BEEN COMPLETED AND ANY UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- WELL AS THE REQUIREMENTS OF ASTM E 1643.

11. INSTALLER SHALL COMPLY WITH ALL VAPOR RETARDER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AS

- 12. UNROLL THE VAPOR RETARDER MATERIAL WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE CONCRETE POUR. LAP OVER FOOTINGS OR SEAL TO FOUNDATION WALLS.
- 13. OVERLAP ALL JOINTS 6 INCHES AND SEAL WITH MANUFACTURER PROVIDED SEAM TAPE.
- 14. SEAL ALL PENETRATIONS ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 15. NO PENETRATION OF VAPOR RETARDER MATERIAL IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
- 16. INSTALLER SHALL REPAIR DAMAGED AREAS BY CUTTING RECTANGULAR PATCHES OF THE VAPOR RETARDER MATERIAL, OVERLAPPING THE DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH MANUFACTURER PROVIDED SEAM TAPE.

STRUCTURAL STEEL NOTES

HEADED SHEAR CONNECTORS

- 1. ALL STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," - AISC 360, LATEST EDITION AS ADOPTED BY NOTED GOVERNING BUILDING CODES.
- 2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST EDITION CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1
- 3. ALL FABRICATION AND ERECTION WORK SHALL BE PERFORMED BY AISC CERTIFIED FABRICATORS AND ERECTORS.
- 4. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MATERIAL REQUIREMENTS, UNLESS NOTED OTHERWISE

STRUCTURAL SHAPE MATERIAL SPEC YIELD STRENGTH WIDE FLANGE (W-) ASTM A992 Fy = 50 KSIANGLES, PLATES, CHANNEL SHAPES Fy = 36 KSIASTM A36 ANCHOR RODS (ANCHOR BOLTS) ASTM F1554, GRADE 36 $F_V = 36 \text{ KSI}$ ASTM F1554, GRADE 55 Fy = 55 KSI - S1 SUPPLEMENT PIPE (STD, XS, XXS) ASTM A53. GRADE B Fv = 35 KSI STEEL TUBE - SQUARE / RECT. ASTM A500, GRADE C Fv = 50 KSISTEEL TUBE - ROUND ASTM A500, GRADE C Fy = 46 KSI HIGH STRENGTH BOLTS ASTM A325 HARDENED WASHERS ASTM F436

5. ALL STEEL SHAPES, PLATES, FASTENERS, ETC. WHICH ARE EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED.

ASTM A108, TYPE B, GRADE 1010 - 1020

- ALL STEEL SHAPES, PLATES, FASTENERS, ETC. WHICH ARE EXPOSED TO SOIL SHALL BE ENCASED IN CONCRETE
- 7. ALL INTERIOR STRUCTURAL STEEL SHALL BE PAINTED WITH A RUST INHIBITIVE PRIMER. DO NOT USE PRIMER AT MEMBERS THAT ARE TO RECEIVE SPRAY-ON FIRE PROOFING. COORDINATE PRIMER WITH ARCHITECT AND OWNER'S
- 8. AN APPROVED LICENSED TESTING AGENCY SHALL VISUALLY INSPECT ALL WELDS, BOLTED CONNECTIONS, METAL DECK ATTACHMENT, AND OTHER STRUCTURAL STEEL CONNECTIONS.
- 9. FIELD STRUCTURAL STEEL TO BE INSPECTED BY QUALIFIED INSPECTORS APPROVED BY THE STRUCTURAL ENGINEER. FIELD INSPECTION REPORT SHALL BE FILED WITH THE STRUCTURAL ENGINEER WITHIN 5 DAYS OF THE DATE OF THE INSPECTION. INSPECTORS MUST BE NOTIFIED OF ALL PHASES OF CONSTRUCTION BY THE GENERAL CONTRACTOR.
- 10. ALL WELDED CONNECTIONS SHALL BE COMPLETED WITH E70XX ELECTRODES. SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE OF BUILDINGS AWS D1.1. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED UNLESS NOTED OTHERWISE. ALL WELDS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE (ANSI/AWS D1.1).
- 11. TOUCH UP FIELD WELDS AND ANY DAMAGED AREAS OF PAINT IN FIELD AFTER WELDED. USE TWO COATS OF COLD GALVANIZING COMPOUND PAINT FOR TOUCH UP OF GALVANIZED STEEL
- 12. ALL HSS AND PIPE SHAPES SHALL HAVE CLOSURE PLATES AND CONTINUOUS WELDS TO SEAL THE SECTIONS.
- 13. BEFORE PROCEEDING WITH ERECTION, AND WITH THE STEEL ERECTOR PRESENT, VERIFY ELEVATIONS OF CONCRETE AND MASONRY BEARING SURFACES AND LOCATIONS OF ANCHORAGES FOR COMPLIANCE WITH REQUIREMENTS. DO NOT PROCEED WITH ERECTION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- 14. NON-METALLIC, NON-SHRINK GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARING PLATES SHALL CONSIST OF A PREMIXED PRODUCT COMPLYING WITH ALL REQUIREMENTS OF CRD-C621, ASTM C827, AND C109. GROUT STRENGTH TO BE 6000 PSI (MIN) WHEN BEARING ON 3000 PSI CONCRETE, AND 8000 PSI (MIN) WHEN BEARING ON 4000 PSI CONCRETE.
- 15. SPLICING OF STRUCTURAL STEEL WHERE NOT DETAILED IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF ENGINEER

OPEN WEB STEEL JOIST NOTES

- 1. DESIGN, DETAILING, FABRICATION, AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS SHALL BE IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," - AISC 360, LATEST EDITION AND WITH THE LATEST CODES AND STANDARDS OF THE STEEL JOIST INSTITUTE, SJI.
- . JOISTS SHALL BE DESIGNED FOR THE COMBINED DEAD, LIVE, AND WIND LOADS AS NOTED IN THE LOAD TABLES AND AS NOTED ON PLAN. IN ALL CASES, JOISTS SHALL NOT BE DESIGNED FOR LESS LOAD THAN PRESCRIBED IN THE STANDARD JOIST LOADING TABLES PER THE STEEL JOIST INSTITUTE.
- PROVIDE UPLIFT BRIDGING AND STANDARD JOIST BRIDGING IN ACCORDANCE WITH THE LATEST SJI SPECIFICATIONS
- 4. PROVIDE X-BRACING IN ACCORDANCE WITH THE LATEST SJI SPECIFICATIONS. WHERE ANY BRIDGING LINE IS DISCONTINUOUS FOR ANY REASON, AND AS FOLLOWS:
- A. AT ALL HORIZONTAL BRIDGING LINES INCLUDING UPLIFT BRIDGING AT INTERVALS NOT TO EXCEED 200 FT
- B. AT ALL HORIZONTAL BRIDGING LINES INCLUDING UPLIFT BRIDGING WHERE TERMINATING AT OUTSIDE (EDGE) BEAMS (EITHER DIRECTLY ADJACENT OR NEXT BAY).
- C. BOTH SIDES OF INTERIOR W BEAMS WHERE JOISTS ARE LOCATED (EITHER DIRECTLY ADJACENT OR NEXT BAY).
- 5. WELD ALL STEEL JOISTS TO SUPPORTING STRUCTURAL STEEL MEMBERS AS SHOWN ON THE DRAWINGS, ACCORDING TO SJI AS MINIMUM. BUT NOT LESS THAN THE FOLLOWING UNLESS APPROVED BY EOR:
- A. MINIMUM JOIST WELD = 3/16" FILLET, 2" LONG EACH SIDE OR 1/8" FILLET, 3" LONG EACH SIDE.
- B. MINIMUM JOIST GIRDER WELD = 1/4" FILLET, 4" LONG EACH SIDE.

DETAILS ON THE JOIST SHOP DRAWINGS.

- 6. JOIST CAMBER MAY BE USED IN COMPUTING THE JOIST DEFLECTION. LIVE LOAD DEFLECTION MUST NOT EXCEED SPAN/360 UNDER UNIFORM LOADING. CAMBER MUST NOT BE CONSIDERED FOR CONCENTRATED LOADS FROM SUSPENDED EQUIPMENT.
- 7. BOTTOM CHORD OF THE K AND KCS SERIES JOIST SHALL BE FABRICATED OF TEES OR ANGLES, IN LIEU OF RODS.
- 8. COORDINATE THE EXACT LOCATION OF ALL MECHANICAL AND ARCHITECTURAL OPENINGS WITH THE MECHANICAL AND

ARCHITECTURAL DRAWINGS AS WELL AS WITH OTHER SUBCONTRACTORS PRIOR TO FABRICATION OF JOISTS.

- 9. ALL HANGERS SUPPORTING MECHANICAL EQUIPMENT, PIPES, AND OTHER CONCENTRATED LOADS TO BE SUPPORTED BY THE JOISTS SHALL BE LOCATED AT THE JOIST PANEL POINTS, OR PROVIDE JOIST STIFFENERS. JOIST ENGINEER SHALL DESIGN ALL JOISTS FOR A MINIMUM 150 LB BEND-CHECK FOR BOTH TOP AND BOTTOM CHORDS UNLESS A GREATER LOAD IS SPECIFIED IN THE DRAWINGS.
- 10. ALL JOISTS ON COLUMN CENTERLINES SHALL BE SECURED BY 1/2" DIAMETER A325 BOLTS AT THE TOP CHORD BEARING. THE BOTTOM CHORD SHALL BE EXTENDED TO THE COLUMN. IF NO JOIST IS PRESENT AT COLUMN CENTERLINE, THE CLOSEST ADJACENT JOISTS ON EACH SIDE OF THE COLUMN SHALL FOLLOW THIS REQUIREMENT.
- 11. STEEL JOISTS AND JOIST GIRDERS SHALL HAVE MANUFACTURER'S STANDARD BEVELED ENDS OR SLOPED SEATS IF ROOF SLOPE EXCEEDS 1/4" PER 12 INCHES.
- 12. STEEL JOISTS SHALL BEAR 4" MINIMUM ON MASONRY / CONCRETE, AND 2-1/2" MINIMUM ON STEEL U.N.O. JOISTS BEARING ON MASONRY / CONCRETE SHAL BEAR ON AN EMBEDDED STEEL PLATE.

13. WELDING OF JOISTS BEARING ON STEEL SHALL BE AS SPECIFIED BY THE SJI AND WELDING SHALL BE IN ACCORDANCE

- WITH THE AWS-D.1 UNLESS NOTED OTHERWISE. 14. STEEL JOISTS AND JOIST GIRDERS SHALL BE PRIMED PAINTED WITH ONE COAT OF GRAY PRIMER MEETING THE MINIMUM
- REQUIREMENTS OF SSPC-PAINT 25 OR STEEL STRUCTURES PAINTING COUNCIL SPECIFICATION 15-68T, TYPE I. 15. JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS FOR THE UPLIFT WIND PRESSURE INDICATED IN TABLE 1: DESIGN LOADS AND THE WIND PRESSURE ZONE PLAN. PROVIDE ADDITIONAL BRIDGING AS REQUIRED. SHOW ALL BRIDGING AND
- 16. JOIST MANUFACTURER SHALL PROVIDE A WRITTEN STATEMENT VERIFYING THAT ALL STEEL JOISTS AND JOIST GIRDERS ARE DESIGNED IN ACCORDANCE WITH ALL THE DESIGN REQUIREMENTS OF THE PROJECT. THIS STATEMENT SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

ARCHITECTURE

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135 W Central Blvd., Suite 400

Orlando, Florida 32801

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These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the contract.

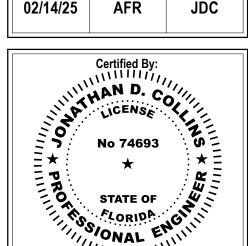
furnish all items required for the proper execution and completion of the work. Drawing Title:

On the basis of the general scope indicated

or described, the trade contractors shall

GENERAL NOTES

Revisions



Issue Date: Drawn By: Checked By:

Electronic Signature: THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JONATHAN D. COLLINS, PE, FL LICENSE NO. 74693 ON 02/27/2025 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

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CAST-IN-PLACE CONCRETE NOTES

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE PUBLICATIONS "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," - ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," - ACI 301 LATEST EDITION.
- . ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IN ACCORDANCE WITH THE FOLLOWING "SCHEDULE OF CAST-IN-PLACE CONCRETE CONSTRUCTION MATERIALS":

SCHEDULE OF CAST-IN-PLACE CONCRETE CONSTRUCTION MATERIALS							
	LOCATION	28-DAY COMPRESSIVE STRENGTH, fc	MAX w/c RATIO				
	FOOTINGS, FOUNDATIONS	4,000 PSI	0.52				
CONCRETE	SLABS ON GROUND	4,000 PSI	0.54				
CO	CONCRETE BEAMS	4,000 PSI	0.52				
·	REMAINING CONCRETE	4,000 PSI	0.52				
الــان	BAR TYPE	YIELD STRENGTH					
REINF. STEEL	WELDABLE REBAR	ASTM A-706, GRADE 6	0				
മിഗി	ALL OTHER REBAR	ASTM A-615, GRADE 60					
	WELDED WIRE MESH / FABRIC	ASTM A-185, GRADE 65					

- ALL CONCRETE SHALL HAVE A MINIMUM SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 2 TO 4% AIR ENTRAINMENT CONCRETE TO BE USED FOR INTERIOR FLOOR SLABS SHALL CONTAIN ONLY "ENTRAPPED AIR" AND SHALL HAVE NOT MORE THAN 3% MAXIMUM AIR CONTENT. CONCRETE PLACED WITH A PUMP SHALL HAVE A SLUMP OF 5" PLUS OR MINUS 1". BUILDER MAY ELECT TO PROVIDE AN ALTERNATE MIX DESIGN WITH HIGH RANGE WATER REDUCER WITH A HIGHER SLUMP. SUBMIT ALTERNATE MIX DESIGN TO ARCHITECT AND ENGINEER OF RECORD FOR REVIEW.
- 4. CONCRETE SHALL CONTAIN THE MAXIMNUM SIZE AGGREGATE PERMITTED BY ACI UP TO 1-1/2" MAXIMUM. THE GUIDELINES FOR MAXIMUM AGGREGATE SIZE ARE:
- A. NOT GREATER THAN 1/5TH THE NARROWEST OPENING IN THE FORMS
- B. NOT GREATER THAN 1/3RD THE THE THICKNESS OF THE SLAB C. FLOOR SLABS WHICH ARE 6" AND GREATER SHALL HAVE #467 AND #6 BLENDED COARSE AGGREGATE
- 5. CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 CHAPTER 3., METHOD 1 OR METHOD 2. SUBMIT BACKUP DATA AS REQUIRED BY CHAPTER 26 OF THE LATEST EDITION OF ACI 318.
- ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL IN ACCORDANCE WITH THE "SCHEDULE OF CAST-IN-PLACE CONCRETE CONSTRUCTION MATERIALS" BELOW. REINFORCING STEEL FOR ELEVATED EXTERIOR SLABS WITHIN 3'-0" OF THE SLAB EDGE PERIMTER AND WITHIN 12" OF ALL EXTERIOR SLEEVES AND BLOCK-OUTS SHALL BE HOT-DIPPED GALVANIZED. SEE ELEVATED SLAB PLANS FOR LOCATIONS.
- ALL REINFORCEMENT SHALL BE PLACED WITH THE REQUIRED CONCRETE COVER TO REINFORCEMENT AS NOTED IN THE FOLLOWING "SCHEDULE OF CONCRETE PROTECTION FOR REINFORCEMENT":

PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE							
APPLICATION CLEAR C							
<u> </u>	CONCRETE CAST AGAINST	1. ALL APPLICATIONS EXCEPT SLABS ON GROUND	3"				
CE E SSED)	AND PERMANENTLY EXPOSED TO EARTH	2. SLABS ON GROUND - CLEAR TO TOP OF SLAB	1-1/2"				
I-PLA RETE	CONCRETE EXPOSED TO	1. #6 BARS AND LARGER	2"				
CAST-IN-PLACE CONCRETE N-PRESTRESSI	EARTH OR WEATHER	2. #5 BARS AND SMALLER	1-1/2"				
CAST-IN-PLA CONCRETI (NON-PRESTRE	CONCRETE NOT EXPOSED	1. SLABS, JOISTS, AND WALLS	3/4"				
	TO EARTH OR WEATHER	2. BEAMS, COLUMNS, AND OTHER MEMBERS	1-1/2"				
	CONCRETE EXPOSED TO	1. SLABS, JOISTS, AND WALLS	1-1/4"				
PRESTRESSED OR POST- TENSIONED CONCRETE	EARTH OR WEATHER	2. BEAMS, COLUMNS, AND OTHER MEMBERS	1-1/2"				
ESTE OR P ENSI	CONCRETE NOT EXPOSED	1. SLABS, JOISTS, AND WALLS	3/4"				
TO EARTH OR WEATHER		2. BEAMS, COLUMNS, AND OTHER MEMBERS	1-1/2"				
NOTES:							

NOTES:

- TOLERANCE FOR CONCRETE COVER AND REINFORCEMENT LOCATION IS +/- 3/8" 2. TOTAL CLEAR COVER AT EXTERIOR FACE IS THE SCHEDULED CLEAR COVER PLUS THE DEPTH OF ANY REVEAL
- 8. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315 LATEST EDITION, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- . CONTRACTOR SHALL REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, SLOPES, ETC. REQUIRED BY OTHER TRADES. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. COORDINATE BEARING CONDITIONS REQUIRED BY TILT-UP PANEL LIFTING ENGINEER BEFORE PLACING CONCRETE.
- 10. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS. SLEEVES, ANCHOR BOLTS, INSERTS, ETC. AS REQUIRED BY ALL TRADES BEFORE CONCRETE IS PLACED.
- 11. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS AND AT SLAB EDGES.
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING STEEL. SUPPORT ITEMS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
- 13. CONTRACTOR SHALL PROVIDE 3/4" INCH CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.
- 14. HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS SHALL BE PROVIDED WITH A DEPTH OF 1 ½ INCHES AND A HEIGHT EQUAL TO ONE-THIRD OF THE MEMBER'S DEPTH. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONSTRUCTION JOINTS MAY BE USED ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AT OTHER LOCATIONS APPROVED BY THE ARCHITECT AND ENGINEER OF RECORD.
- 15. CONTINUOUS RX WATERSTOP SHALL BE PROVIDED ALONG BASE OF WALLS AND ALONG VERTICAL WALL JOINTS AT ALL RETAINING WALLS AND ELEVATOR STEMWALLS. PLACE WATERSTOP IN ACCORDANCE WITH THE MANUFACTURER'S PROCEDURES.
- 16. REINFORCEMENT SPLICES SHALL NOT BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE PROJECT STRUCTURAL ENGINEER. WHERE INDICATED, THE MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE CLASS B PER ACI 318, SECTION 25.5 EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS. SEE TABLES PROVIDED.
- 17. TESTING LABORATORY SHALL SUBMIT ONE COPY OF ALL CONCRETE TEST REPORTS DIRECTLY TO THE ENGINEER.
- A. THE OWNER SHALL EMPLOY A TESTING LABORATORY TO TAKE AND TEST CONCRETE CYLINDERS, PERFORM SLUMP TESTS, PERFORM TESTS FOR AIR CONTENT, AND TO PERFORM STRENGTH TESTS IN ACCORDANCE WITH ASTM C39.
- B. A MINIMUM OF THREE (3) CYLINDERS SHALL BE TAKEN FOR EACH 50 CU. YD. OF CONCRETE OR FRACTION THEREOF FOR EACH STRENGTH AND TYPE OF CONCRETE BEING CAST ON ANY DAY.
- C. NO CONCRETE SHALL BE PLACED THAT DOES NOT MEET SLUMP OR AIR CONTENT REQUIREMENTS. ALL TESTS FOR AIR CONTENT SHALL BE MADE BY THE PRESSURE METHOD. SLUMP TESTS SHALL BE TAKEN FOR EACH 20 CU. YD. OF CONCRETE BEING PLACED.
- D. SLUMP EXCEEDING THE SPECIFIED MAXIMUM, WHEN OCCURRING IN CONSECUTIVE TESTS MADE ON DIFFERENT PORTIONS OF THE SAME SAMPLE, WILL BE CAUSE FOR REJECTION OF THAT TRUCKLOAD AND SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER. THE REPLACEMENT OF SUCH CONCRETE WITH THE SPECIFIED CONCRETE SHALL BE COMPLETED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- E. AT A MINIMUM, THE CONCRETE TEST REPORTS SHALL CONTAIN THE FOLLOWING INFORMATION:
- a. CONCRETE SUPPLIER
- . QUANTITY OF CONCRETE REPRESENTED BY SAMPLE
- LOCATION OF ALL SAMPLES TAKEN
- d. STRENGTH REQUIREMENT IN PSI AT 28 DAYS
- SITE CONDITIONS INCLUDING AIR TEMPTERATURE, WEATHER, ETC.
- DATE SAMPLE WAS TAKEN DATE TESTED
- TEST RESULTS FOR 7 DAYS AND 28 DAYS AGE ANY OTHER NECESSARY INFORMATION TO EVALUATE TESTS

CAST-IN-PLACE CONCRETE NOTES CONT'D

- 18. PLACING CONCRETE:
- A. PLACE CONCRETE IN COMPLIANCE WITH ACI 304 AND AS HEREIN SPECIFIED.
- B. BEFORE PLACING AND CONCRETE IN FORMWORK, THOROUGHLY CLEAN AND WASH OUT FORMS WITH WATER.
- C. IF EARTH AT BOTTOM OF FORMS HAS DRIED OUT, RE-WET SO THAT SOIL IS MOIST, BUT FREE OF STANDING WATER
- D. THOROUGHLY WET WOOD FORMS IMMEDIATELY BEFORE PLACING CONCRETE WHERE FORM COATINGS ARE NOT
- E. CONVEY CONCRETE FROM MIXER TO FINAL POSITION BY METHODS WHICH WILL PREVENT SEPARATION OR LOSS OF
- F. MAXIMUM HEIGHT OF CONCRETE FREE FALL IS 4 FT. (U.N.O.)
- G. REGULATE RATE OF PLACEMENT SO CONCRETE SURFACE IS KEPT LEVEL THROUGHOUT, A MINIMUM BEING PERMITTED TO FLOW FROM ONE AREA TO ANOTHER. USE TREMIE HEADS SPACED AT APPROXIMATELY 10 FT INTERVALS FOR PLACING CONCRETE IN WALLS. CONTROL RATE OF POUR CONSISTENT WITH FORM DESIGN.
- H. DEPOSIT CONCRETE IN CONTINUOUS OPERATION UNTIL SECTION BEING PLACED HAS BEEN COMPLETED.
- FORMWORK
- A. DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL CONCRETE STRUCTURE CAN SUPPORT SUCH LOADS.
- B. CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117.
- C. CONSTRUCT FORMS TIGHT ENOUGH TO PREVENT LOSS OF CONCRETE MORTAR.
- D. COAT CONTACT SURFACES OF FORMS WITH FORM-RELEASE AGENT, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, BEFORE PLACING REINFORCEMENT.
- E. SUBMIT SIGNED AND SEALED FORMWORK SHOP DRAWINGS AND CALCULATIONS AND / OR DIMENSIONED WALL PANEL SHOP DRAWINGS WITH ALL OPENINGS TO ENGINEER AND ARCHITECT FOR REVIEW.

MASONRY / CMU NOTES

- 1. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH THE PUBLICATIONS "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" - TMS 402 LATEST EDITION. AND "SPECIFICATION FOR MASONRY STRUCTURES" - TMS 602. LATEST EDITION, OR EDITIONS AS ADOPTED BY THE GOVERNING BUILDING CODES REFERENCED IN THE GENERAL NOTES.
- 2. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 2000 PSI (f'm = 2000 PSI).
- 3. UNITS SHALL BE MANUFACTURER'S STANDARD UNITS WITH NOMINAL FACE DIMENSION OF 16" LONG.
- 4. PROVIDE SPECIAL SHAPES WHERE SHOWN AND WHERE REQUIRED FOR LINTELS, CORNERS, JAMBS, SASH, JOINTS, HEADERS, BONDING, AND OTHER SPECIAL CONDITIONS.
- 5. MORTAR SHALL BE TYPE "M" OR "S", CONFORMING TO ASTM C270.
- COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8", A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI, AND A SLUMP BETWEEN 8" AND 11". JOB SITE MIXING OF GROUT SHALL NOT BE PERMITTED. DO NOT USE MIX DESIGNS OTHER THAN THE GROUT MIX APPROVED FOR MASONRY CONSTRUCTION.
- 7. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS IN CELLS FULLY FILLED WITH COARSE GROUT. ALL VERTICALLY REINFORCED WALLS SHALL HAVE DOWELS THAT, AT A MINIMUM, MATCH THE MAIN VERTICAL BAR SIZE AND SPACING, UNLESS OTHERWISE NOTED.
- 8. WHEN A FOUNDATION DOWEL DOES NOT ALIGN WITH THE REQUIRED LOCATION OF A REINFORCED VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN 1" HORIZONTALLY IN 6" VERTICALLY. ADJACENT CORES SHALL BE FULLY GROUTED AS REQUIRED TO ENSURE THAT DOWEL IS IN A FULLY GROUTED CORE
- VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM OF THE BAR, AND AT A MAXIMUM SPACING OF 10'-0" OR 192X THE BAR DIAMETER, WHICHEVER IS LESS. REINFORCEMENT SHALL BE PLACED AT THE CENTER OF THE MASONRY CELL, TYPICAL, UNLESS OTHERWISE NOTED. SEE TYPICAL GROUTING DETAILS FOR ADDITIONAL
- 10. ALL REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 50X THE BAR DIAMETER. EXTEND ALL VERTICAL REINFORCEMENT TO WITHIN 2" OF THE TOP OF WALL OR COLUMN UNLESS OTHERWISE NOTED.
- 11. HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS SHALL BE STANDARD LADDER TYPE (ASTM A-82 #9 GAUGE WIRE) REINFORCEMENT SPACED AT 16" O.C., UNLESS OTHERWISE NOTED. WIRE SHALL BE HOT-DIPPED GALVANIZED.
- 12. SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 8" AND SHALL CONTAIN AT LEAST ONE CROSS-WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 8" LAP. LAP WITH STANDARD PRE-FABRICATED "T" AND "L" SHAPED PIECES AT WALL INTERSECTIONS AND CORNERS. JOINT REINFORCEMENT SHALL NOT BE CONTINUOUS THROUGH EXPANSION OR CONTROL JOINTS. REFERENCE STRUCTURAL PLANS AND TYPICAL DETAILS FOR JOINT LOCATIONS AND DETAILS.
- 13. MASONRY CONTROL JOINTS SHALL BE PLACED AT 24'-8" (MAX) ON CENTER, OR 1.5X THE WALL HEIGHT, WHICHEVER DIMENSION IS LESS. MASONRY CONTROL JOINTS SHALL BE PLACED AT SIGNIFICANT CHANGES IN WALL HEIGHT OR THICKNESS. PLACE MASONRY CONTROL JOINTS A MINIMUM OF 2'-0" FROM OPENINGS AND WALL CORNERS.
- 14. WHERE BEAMS FRAME INTO MASONRY WALLS, PROVIDE A MINIMUM OF 3 COURSES HIGH BY 3 CELLS WIDE (24" X 24") SOLID GROUTED MASONRY. WHERE STEEL BEAMS FRAME INTO MASONRY WALLS, PROVIDE A 24" X 24" BLOCKOUT FOR SOLID CONCRETE POUR WITH EMBED PLATE AS REQUIRED. REFERENCE STRUCTURAL PLAN AND STRUCTURAL DETAILS.
- 15. PROVIDE PRECAST CONCRETE LINTELS OVER ALL OPENINGS UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. BASIS OF DESIGN FOR PRECAST CONCRETE LINTEL PRODUCTS IS CAST-CRETE, INC. CONTRACTOR MAY ELECT TO SOURCE ALTERNATE PROVIDER. SUBMIT PRODUCT DATA FOR ENGINEER REVIEW.
- 16. PROVIDE A FULLY GROUTED KNOCK-OUT BLOCK OR U-BLOCK REINFORCED WITH (1) #5 CONTINUOUS AT THE SILL OF ALL WINDOW OPENINGS. EXTEND 16" BEYOND EACH SIDE OF THE OPENING, TYPICAL.
- 17. MORTAR PLACEMENT:
- A. USE BED JOINT BETWEEN 1/4" (MINIMUM) AND 3/4" (MAXIMUM) THICK AT FIRST COURSE BEARING ON FOUNDATION.
- B. USE 3/8" THICK JOINTS BETWEEN ALL OTHER UNITS.
- C. TOOL ALL JOINTS WITH A ROUND JOINTER WHEN THE MORTAR IS THUMBPRINT HARD, UNLESS OTHERWISE REQUIRED BY THE CONTRACT DOCUMENTS.
- D. PLACE MORTAR ON CLEAN UNITS WHILE THE MORTAR IS SOFT AND PLASTIC.
- E. DO NOT DISTURB THE UNIT AFTER IT IS INITIALLY POSITIONED, EXCEPT FOR FULLY SEATING AND LEVELING.
- F. PLACE MORTAR SO THAT ALL JOINTS OF SOLID UNITS ARE FULLY FILLED WITH MORTAR.
- G. FILL THE BED AND HEAD JOINTS OF HOLLOW UNITS WITH MORTAR. MORTAR SHALL BE PLACED IN WIDTHS EQUAL TO THE FULL WIDTH OF THE FACE SHELL, MINIMUM.
- H. MORTAR THE CROSS WEBS IN HOLLOW UNITS IN THE FOLLOWING SITUATIONS:
- a. ADJACENT TO CELLS TO BE GROUTED FOR PARTIALLY GROUTED CONSTRUCTION.
- b. AT THE STARTING COURSE BEARING ON FOUNDATIONS OR OTHER STRUCTURAL SUPPORTS.
- c. ALL PIERS, COLUMNS, AND PILASTER UNITS THAT ARE TO BE FULLY FILLED WITH GROUT.
- REMOVE PROTRUSIONS OF MORTAR INTO COLLAR JOINT CAVITIES AND CELLS OF HOLLOW UNITS THAT ARE TO BE GROUTED SOLID.
- J. DO NOT SLUSH MORTAR INTO HEAD JOINTS.
- K. FILL ALL HOLES IN THE MORTAR JOINTS PRIOR TO GROUTING WALL.
- 18. PROVIDE ADEQUATE BRACING AND SUPPORT OF MASONRY UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
- 19. ALL INTERSECTING LOAD BEARING WALLS SHALL BE TIED TOGETHER IN RUNNING BOND UNLESS NOTED OTHERWISE.

METAL ROOF DECK NOTES

- 1. DETAILING, FABRICATION, AND ERECTION OF STEEL DECK SHALL BE IN ACCORDANCE WITH THE LATEST STEEL DECK INSTITUTE SPECIFICATIONS, AWS, AND CONTRACT DOCUMENTS. DECK SHALL CONFORM TO "BASIC DESIGN SPECIFICATIONS" AS ADOPTED BY THE STEEL DECK INSTITUTE, SDI.
- 2. STEEL DECK PROFILE SHALL CONFORM TO FACTORY MUTUAL REQUIREMENTS.
- 3. METAL ROOF DECK SHALL BE MINIMUM 1-1/2" DEEP, TYPE B (AS IDENTIFIED BY SDI) PAINTED WHITE UNDERSIDE AND GRAY TOP SIDE STEEL DECK CONFORMING TO ASTM A1008 OR ASTM A1039 WITH MINIMUM YIELD STRESS OF 50 KSI. REFERENCE DRAWINGS FOR REQUIRED DECK STRENGTH. DECK FINISH SHALL BE SHOP PRIMED WITH BAKED-ON, LEAD-AND CHROMATE-FREE RUST-INHIBITIVE PRIMER COMPLYING WITH PERFORMANCE REQUIREMENTS OF SSPC-PAINT 25.
- 4. DECK SUPPLIER SHALL PROVIDE ANY MISCELLANEOUS CLOSURE PIECES, POUR STOPS, DRAIN SUMP PANS, ETC. TO COMPLETE PROJECT. MISCELLANEOUS ITEMS SHALL MATCH (AT A MINIMUM) THE STEEL DECK FINISH AND THICKNESS.
- 5. THE DECK SHALL BE PLACED ON THE SUPPORTING FRAMEWORK WITH A MINIMUM END LAP OF TWO INCHES CENTERED OVER THE SUPPORTS. THE DECK SHALL BE ATTACHED TO THE SUPPORTS, AND THE SIDE LAP OF ADJACENT UNITS IN THE PATTERN SHOWN ON THE CONTRACT DRAWINGS.
- 6. ALL ROOF DECK OPENINGS 12" DIAMETER OR LARGER ARE TO HAVE SUPPORT ANGLES PER TYPICAL DECK OPENING DETAIL. INCLUDING OPENINGS FOR ROOF SUMP PANS.
- 7. ALL ROOF DECK OPENINGS 6" DIAMETER OR LARGER (UP TO 12" DIAMETER) SHALL HAVE LIGHT GAUGE DECK REINFORCEMENT PER TYPICAL DECK REINFORCEMENT DETAIL
- 8. NO LOADS SHALL BE HUNG FROM THE ROOF DECK.
- 9. ROOF DECK SHALL BE LAID OUT SUCH THAT DECKING SHALL SPAN THREE SPANS WITHOUT INTERRUPTION.
- 10. DECK AND SUPPORTING MEMBERS DAMAGED BY EXCESS WELDING HEAT SHALL BE REPAIRED OR REPLACED AS DETERMINED BY THE ARCHITECT OR ENGINEER.
- 11. PUDDLE WELDS SHALL BE AT LEAST 5/8" EFFECTIVE DIAMETER OR AN ELONGATED WELD HAVING AN EQUAL PERIMETER. FILLET AND SEAM WELDS, WHEN USED, SHALL BE A MINIMUM OF 1-1/2" LONG, WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND SIDE JOINTS AND HAVE SOLID FUSION TO THE SUPPORTING MEMBERS.

TABLE 1. DESIGN LUADS & DESIGN CRITERIA								
	DEAD LOADS							
BUILDING COMPONENT	TYPICAL ROOF OVER WAREHOUSE	TYPICAL ROOF OVER OFFICE SPACE						
TPO ROOFING	3.0 PSF	PSF						
INSULATION	3.0 PSF	PSF						
METAL DECK	2.0 PSF	PSF						
STEEL JOISTS	4.0 PSF	PSF						
FIRE SPRINKLERS	2.0 PSF	PSF						
MECHANICAL	4.0 PSF	PSF						
CEILING	2.0 PSF	PSF						
SOLAR PANELS	PSF	PSF						
MISCELLANEOUS	5.0 PSF	PSF						
STRUCTURAL SLAB	PSF	PSF						
FLOORING	PSF	PSF						
TOTAL DEAD LOAD	25.0 PSF	PSF						
	LIVE LOADS							
ROOF LIVE LOAD	20.0 PSF	PSF						

TABLE 1. DESIGN LOADS & DESIGN CRITERIA

WIND LOAD CRITERIA

--- PSF

150 LBS

--- LBS

--- PSF

--- LBS

--- LBS

WIND EST BOTH ETHICK								
139 MPH	BUILDING RISK CATEGORY	II						
108 MPH	EXPOSURE CATEGORY	С						
[N/A] MPH	EFFECTIVE PLAN AREA (Ae)	[N/A] SF						
42.7 PSF	ENCLOSURE CLASSIFICATION	ENCLOSED						
25.6 PSF	INTERNAL PRESSURE COEFFICIENT	+/- 0.18						
	108 MPH [N/A] MPH 42.7 PSF	108 MPH EXPOSURE CATEGORY [N/A] MPH EFFECTIVE PLAN AREA (Ae) 42.7 PSF ENCLOSURE CLASSIFICATION						

LIVE LOAD

ROOF CONCENTRATED

FLOOR CONCENTRATED

- ROOF LIVE LOADS MAY BE REDUCED, WHERE APPLICABLE, PER FLORIDA BUILDING CODE SEC 1607.12.2.1. REDUCED UNIFORM LIVE LOAD SHALL NOT BE LESS THAN 12.0 PSF.
- CONCENTRATED ROOF LOADS OVER STEEL JOIST ROOFS SHALL BE APPLIED AS BEND CHECK LOADS TO THE ROOF JOISTS AT THE TOP AND BOTTOM CHORDS (NOT SIMULTANEOUSLY)



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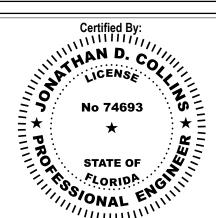
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

Drawing Title:

GENERAL NOTES

Revisions

Issue Date: Drawn By: Checked By: 02/14/25



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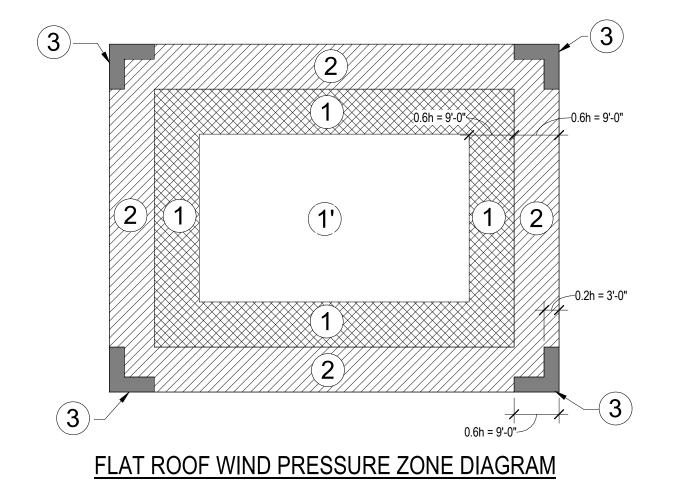
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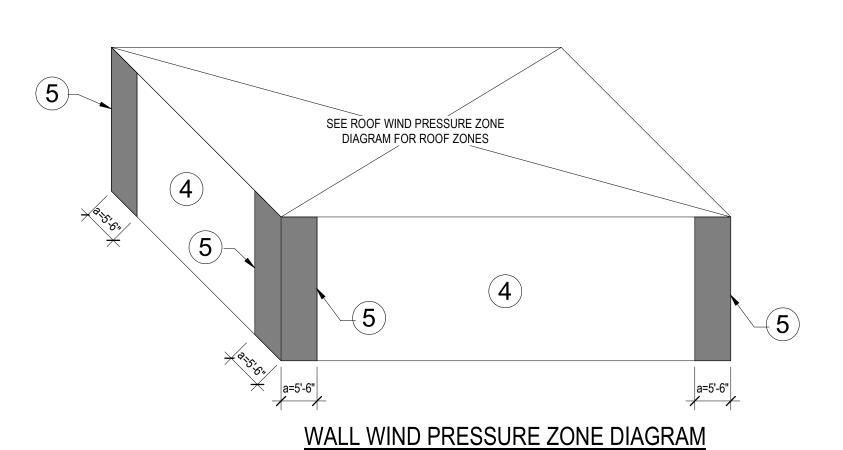
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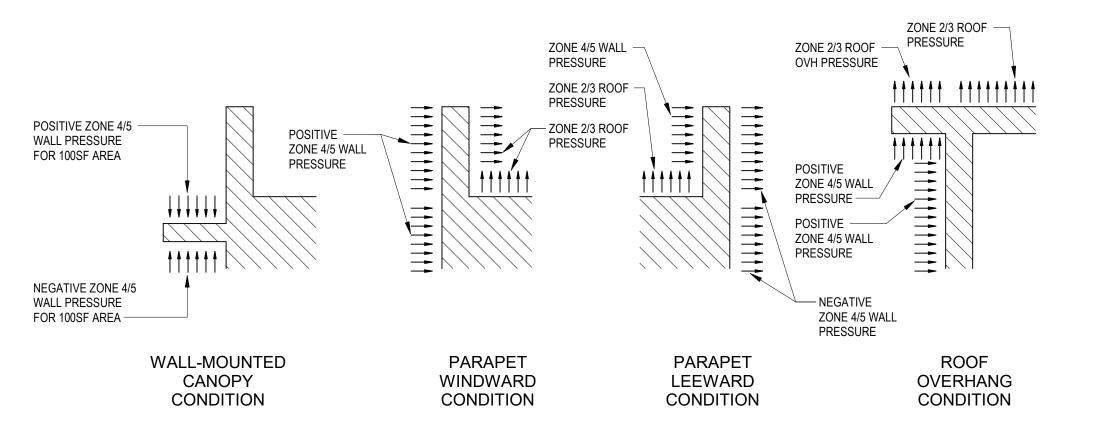
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Project Number:







COMPONENTS AND CLADDING SPECIAL LOADING DIAGRAMS

POSITIVE	WIND PRES	SSURES ON	WALLS & W	ALL OPENIN	NGS
WIND PRESSURE ZONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AF
WIND I REGOONE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200
WALL ZONE 4	39.2 PSF	37.5 PSF	35.2 PSF	33.4 PSF	31.7 P
WALL ZONE (5)	39.2 PSF	37.5 PSF	35.2 PSF	33.4 PSF	31.7 P
NEGATIVE	WIND PRE	SSURES ON	WALLS & W	ALL OPENI	NGS
WIND DEFOUNDE ZONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AF
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200
WALL ZONE 4	-42.5 PSF	-40.7 PSF	-38.4 PSF	-36.7 PSF	-35.0 P
WALL ZONE (5)	-52.3 PSF	-48.8 PSF	-44.2 PSF	-40.7 PSF	-37.3 P
POSITIVE	WIND PRES	SURES ON I	ROOFING &	ROOF FRAN	IING
WIND DESCRIPE TONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AF
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200
ROOF ZONE (1')	17.4 PSF	16.3 PSF	16.0 PSF	16.0 PSF	16.0 P
ROOF ZONE 1	17.4 PSF	16.3 PSF	16.0 PSF	16.0 PSF	16.0 P
ROOF ZONE (2)	17.4 PSF	16.3 PSF	16.0 PSF	16.0 PSF	16.0 P
ROOF ZONE 3	17.4 PSF	16.3 PSF	16.0 PSF	16.0 PSF	16.0 P
NEGATIVE	WIND PRES	SSURES ON	ROOFING &	ROOF FRAI	MING
WIND DEFOUNDE ZONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AF
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200
ROOF ZONE (1')	-39.2 PSF	-39.2 PSF	-39.2 PSF	-39.2 PSF	-33.7 P
ROOF ZONE 1	-68.3 PSF	-63.7 PSF	-57.8 PSF	-53.3 PSF	-48.8 P
ROOF ZONE 2	-90.0 PSF	-84.2 PSF	-76.6 PSF	-70.8 PSF	-65.0 P
ROOF ZONE (3)	-122.7 PSF	-111.1 PSF	-95.8 PSF	-84.2 PSF	-72.7 P

NOTES:

- 1. WIND PRESSURES IN THE TABLES ABOVE ARE BASED ON CALCULATIONS FROM ASCE 7-22.
- 2. OVERHANG PRESSURES IN THE TABLES ABOVE SHALL APPLY TO ALL ROOFS OVER BALCONIES, BREEZEWAYS, AND COVERED ENTRIES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 3. WHEN THE "BASIC WIND SPEED (V_{ULT})" IN "TABLE 1: DESIGN LOADS & DESIGN CRITERIA" IS 140 MPH OR HIGHER, PROVIDE IMPACT RESISTANT GLAZING AS REQUIRED FOR WIND BORNE DEBRIS PER FLORIDA BUILDING CODE.
- MAXIMUM ALLOWABLE DEAD LOADS TO BE USED TO RESIST UPLIFT SHALL BE AS FOLLOWS:
- A. NET UPLIFT = ULTIMATE UPLIFT 10 PSF DEAD LOAD
 B. NET UPLIFT = ALLOWABLE UPLIFT 6 PSF DEAD LOAD

TABLE 3: Al	Ι ΟWΔRI I	F STRESS	: (ASD) WI	ND PRES	SURES					
	WIND PRES		•							
	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA					
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200 SF					
WALL ZONE 4	23.5 PSF	22.5 PSF	21.1 PSF	20.1 PSF	19.0 PSF					
WALL ZONE (5)	23.5 PSF	22.5 PSF	21.1 PSF	20.1 PSF	19.0 PSF					
NEGATIVE WIND PRESSURES ON WALLS & WALL OPENINGS										
WIND DECOURE ZONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA					
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200 SF					
WALL ZONE 4	-25.5 PSF	-24.4 PSF	-23.1 PSF	-22.0 PSF	-21.0 PSF					
WALL ZONE (5)	-31.4 PSF	-29.3 PSF	-26.5 PSF	-24.4 PSF	-22.4 PSF					
POSITIVE	WIND PRES	SURES ON I	ROOFING &	ROOF FRAM	IING					
WIND DDECCUDE ZONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA					
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200 SF					
ROOF ZONE (1')	10.5 PSF	9.8 PSF	9.6 PSF	9.6 PSF	9.6 PSF					
ROOF ZONE 1	10.5 PSF	9.8 PSF	9.6 PSF	9.6 PSF	9.6 PSF					
ROOF ZONE (2)	10.5 PSF	9.8 PSF	9.6 PSF	9.6 PSF	9.6 PSF					
ROOF ZONE 3	10.5 PSF	9.8 PSF	9.6 PSF	9.6 PSF	9.6 PSF					
NEGATIVE	WIND PRES	SSURES ON	ROOFING &	ROOF FRAM	MING					
WIND DDESCUDE ZONE	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA	EFF. AREA					
WIND PRESSURE ZONE	≤ 10 SF	20 SF	50 SF	100 SF	≥ 200 SF					
ROOF ZONE (1')	-23.5 PSF	-23.5 PSF	-23.5 PSF	-23.5 PSF	-20.2 PSF					
ROOF ZONE 1	-41.0 PSF	-38.2 PSF	-34.7 PSF	-32.0 PSF	-29.3 PSF					
ROOF ZONE (2)	-54.0 PSF	-50.5 PSF	-46.0 PSF	-42.5 PSF	-39.0 PSF					
ROOF ZONE 3	-73.6 PSF	-66.7 PSF	-57.5 PSF	-50.5 PSF	-43.6 PSF					

NOTES:

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- 4. MAXIMUM ALLOWABLE DEAD LOADS TO BE USED TO RESIST UPLIFT SHALL BE AS FOLLOWS:
- A. NET UPLIFT = ULTIMATE UPLIFT 10 PSF DEAD LOADB. NET UPLIFT = ALLOWABLE UPLIFT 6 PSF DEAD LOAD

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Owner:

US HWY 17-92 AND KINNEY HARMON ROAD

ROAD LOUGHMAN, FL 33896

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

Scope Drawings:

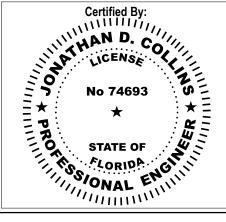
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WIND LOAD
DATA

Revisions:						

Issue Date:	Drawn By:	Checked By:							
02/14/25	AFR	JDC							
Certified By:									

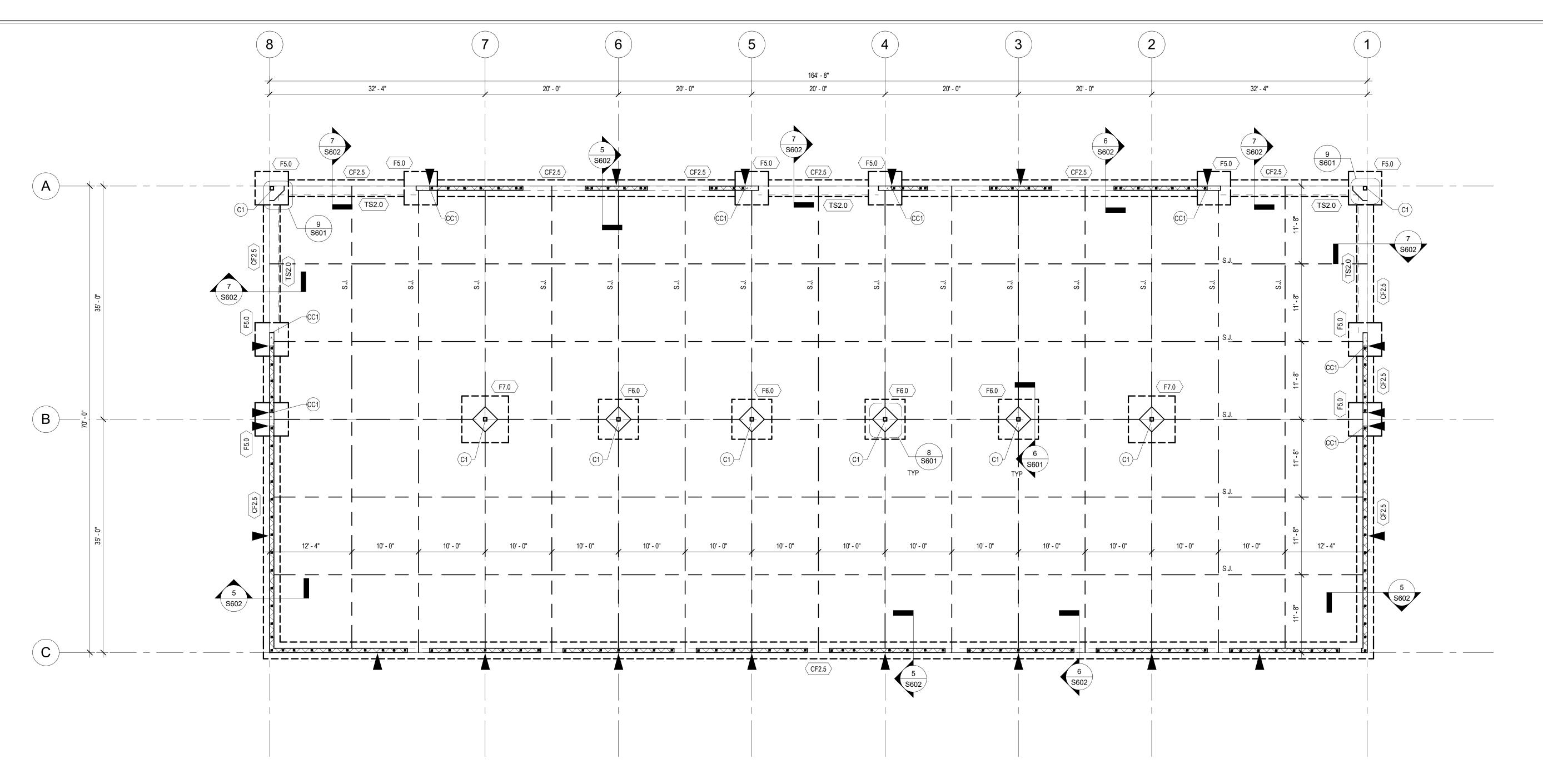


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S003





LEGEND

EL = #' - ##"

T.O. FTG INDICATES TOP OF CONCRETE FOOTING ELEVATION.

F#.# INDICATES SPREAD FOOTING TYPE. SEE FOUNDATION SCHEDULE FOR SIZE AND REINFORCEMENT.

TS#.# INDICATES THICKENED SLAB EDGE TYPE. SEE FOUNDATION SCHEDULE FOR SIZE AND REINFORCEMENT

CF#.# INDICATES CONTINUOUS FOOTING TYPE. SEE FOUNDATION SCHEDULE FOR SIZE AND REINFORCEMENT.

INDICATES STEEL COLUMN TYPE. SEE STEEL COLUMN SCHEDULE FOR COLUMN SIZE AND BASEPLATE DETAILS.

INDICATES CONCRETE COLUMN TYPE. SEE CONCRETE COLUMN SCHEDULE FOR COLUMN SIZE AND REINFORCEMENT.

S.J. INDICATES SLAB SAWCUT JOINT PER DETAIL 8 / S602.

C.S.J. INDICATES CONSTRUCTION JOINT PER TYPICAL DETAIL 1 / S602 OR AS REQUIRED PER CONSTRUCTION SEQUENCING.

INDICATES 1/2" THICK ASPHALT-IMPREGNATED BOARD ISOLATION JOINT PER DETAIL 3 / S602.

INDICATES 8" THICK REINFORCED MASONRY WALL - PROVIDE VERTICAL #5 AT 32" O.C. (MAX) U.N.O.

INDICATES VERTICAL REINFORCEMENT AT CENTER OF CMU WALL GROUTED SOLID. BAR SIZE MUST MATCH WALL REINF. NOTED

INDICATES MASONRY CONTROL JOINT. SEE TYPICAL DETAIL 4 / S502

FOUNDATION PLAN NOTES:

- 1. REFERENCE THE STRUCTURAL GENERAL NOTES ON DRAWINGS S001 & S002. GENERAL NOTES INCLUDE CODES AND STANDARDS, DESIGN LOADS AND OTHER REQUIREMENTS.
- CONTRACTOR TO VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND EQUIPMENT SUPPLIERS SHOP DRAWINGS PRIOR TO FABRICATION AND / OR START OF CONSTRUCTION.
- 3. COORDINATE EXISTING / INSTALLED UNDERGROUND UTILITIES AND OTHER BURIED PIPES AND CONDUITS PRIOR TO PLACEMENT OF FOOTINGS. DO NOT PLACE BUILDING FOUNDATIONS OVER EXISTING / INSTALLED PIPES AND CONDUITS UNLESS APPROVED OTHERWISE.
- 4. T.O. FOOTING ELEVATION IS AT -2'-0" (U.N.O.) THIS IS A REFERENCE ELEVATION ONLY. SEE FOUNDATION DETAIL SHEETS AND SCHEDULES FOR FOUNDATION SIZE AND REINFORCEMENT.
- 5. EXTEND ALL CONTINUOUS FOOTING REINFOREMENT INTO ADJACENT SPREAD FOOTINGS A MINIMUM DISTANCE OF 4'-0".
- 6. ALL WALLS AND COLUMNS ARE TO BE CENTERED ON FOUNDATIONS UNLESS NOTED OTHERWISE. SEE PLAN DIMENSIONS FOR OFFSETS.
- 7. PREPARE THE SLAB SUB-BASE AND COMPACT THE SOIL PER THE PROJECT GEOTECHNICAL
- REPORT, THE CIVIL DRAWINGS, AND THE STRUCTURAL GENERAL NOTES. IF ANY OF THESE DRAWINGS OR NOTES ARE IN CONFLICT, THE CONTRACTOR MUST ALERT THE ENGINEER FOR CLARIFICATION PRIOR TO START OF CONSTRUCTION.
- 8. T.O. SLAB ELEVATION IS AT 0'-0" (U.N.O.) THIS IS A REFERENCE ELEVATION ONLY. SEE CIVIL DRAWINGS FOR TRUE ELEVATION ABOVE SEA LEVEL. REFERENCE THE FOUNDATION AND SLAB ON GRADE DETAIL SHEETS FOR TYPICAL SLAB CONSTRUCTION DETAILS.
- 9. SLAB ON GROUND SHALL BE 4" THICK MINIMUM CONCRETE, UNLESS NOTED OTHERWISE. REINFORCE SLAB WITH 3.0 LBS/ CUBIC YARD OF FIBER MESH. (ALTERNATE REINFORCEMENT TO FIBERMESH SHALL BE 6x6 W1.4 x W1.4 WELDED WIRE MESH). PROVIDE A 15 MIL VAPOR RETARDER ON TERMITE TREATED COMPACTED SUBGRADE. SEE PLAN FOR SAW-CUT JOINT SPACING.
- 10. PROVIDE (2) #4 x 4'-6" LG BARS AT TOP OF SLAB AT ALL RE-ENTRANT CORNERS AND DISCONTINUOUS ENDS OF SLAB SAW-CUT JOINTS.
- 11. REFERENCE THE ARCHITECTURAL DRAWINGS FOR SLAB EDGES, FLOOR SLOPES, WALL OPENINGS, AND OTHER DIMENSIONS NOT GIVEN. CONTRACTOR MUST COORDINATE AND VERIFY ALL DIMENSIONS WITH PROJECT ARCHITECT PRIOR TO FABRICATION.



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ROAD
LOUGHMAN, FL 33896

Scope Drawings:

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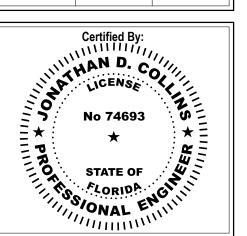
execution and completion of the work.

Drawing Title:

FOUNDATION PLAN

Revisions:

Issue Date: Drawn By: Checked By: 02/14/25 AFR JDC



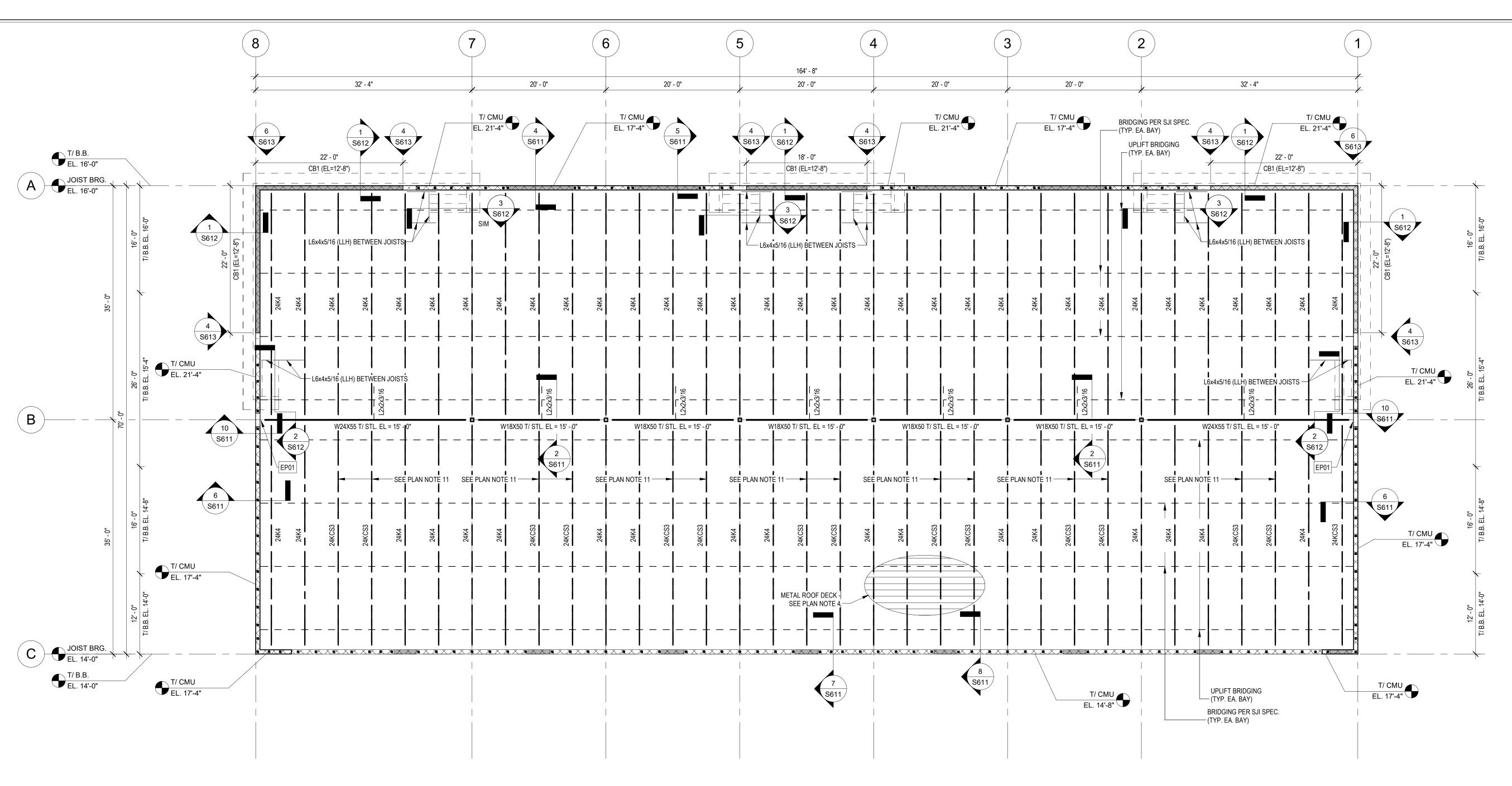
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S101





LEGEND

INDICATES TOP OF CMU WALL ELEVATION. SEE PLAN.

SCHEDULE ON S501 FOR BEAM SIZE AND DETAILS.

INDICATES EMBED PLATE TYPE. SEE EMBED PLATE SCHEDULE ON S501 FOR PLATE SIZE AND DETAILS.

VERTICAL #5 AT 32" O.C. (MAX) U.N.O.

INDICATES CONCRETE BEAM TYPE. SEE CONCRETE BEAM

(EL = #'-##") INDICATES BOTTOM OF CONCRETE BEAM ELEVATION. SEE PLAN. INDICATES STEEL COLUMN TYPE. SEE STEEL COLUMN SCHEDULE ON S501 FOR COLUMN SIZE AND BASEPLATE DETAILS.

INDICATES 8" THICK REINFORCED MASONRY WALL - PROVIDE

INDICATES VERTICAL REINFORCEMENT AT CENTER OF CMU WALL GROUTED SOLID. BAR SIZE MUST MATCH WALL REINF. NOTED INDICATES PRE-CAST LINTEL . SEE LINTEL SCHEDULE ON S502

INDICATES CONCRETE BEAM LINTEL. SEE CONCRETE BEAM SCHEDULE ON S501 FOR BEAM SIZE AND DETAILS.

ROOF FRAMING PLAN NOTES:

- 1. REFERENCE THE STRUCTURAL GENERAL NOTES ON DRAWINGS S001 & S002. GENERAL NOTES INCLUDE CODES AND STANDARDS, DESIGN LOADS AND OTHER REQUIREMENTS.
- 2. TOP OF STEEL ELEVATIONS MAY VARY. SEE THE STRUCTURAL AND ARCHITECTURAL PLANS AND SECTIONS FOR REQUIRED ELEVATIONS. (#'-##") INDICATES TOP OF STEEL ELEVATION.
- 3. CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS AND EQUIPMENT SUPPLIERS SHOP DRAWINGS PRIOR TO FABRICATION AND/OR START OF CONSTRUCTION.
- 4. ROOF DECK SHALL BE GALV 1-1/2" 20GA WIDE RIB METAL DECK, (U.N.O.) SPANNING OVER OPEN-WEB STEEL JOISTS SPACED AT 5'-0" O.C. (MAX) OR AS INDICATED ON ROOF FRAMING

DECK SECTION PROPERTIES: $Ip = 0.201 in^4 / ft$ $\ln = 0.222 \quad \ln^4 / \text{ ft}$ $Sp = 0.234 \text{ in}^3 / \text{ft}$ $\dot{Sn} = 0.247 \, \text{in}^3 / \, \text{ft}$ Fy = 50 KSI

- 5. FASTEN ROOF DECK TO ALL SUPPORTS w/ HILTI X-HSN 24 (36/4 PATTERN) AND ATTACH DECK SIDELAPS w/ HILTI S-SLC 01 AT 12" O.C. (MAX). ATTACH TO ROOF DECK TO PERIMETER ANGLE WITH HILTI X-HSN 24 NAILS AT 12" O.C. (MAX).
- PROVIDE L4x4x1/4 EDGE ANGLE AROUND ALL OPENINGS AND AROUND PERIMETER OF ROOF. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EDGE ANGLES. SEE DECK ANGLE SPLICE DETAIL 3 / S613.
- 7. OPEN WEB STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION OF THE STEEL JOIST INSTITUTE. PROVIDE JOIST REINFORCEMENT PER TYPICAL DETAIL 1 / S611 AT CONCENTRATED LOADS > 150 LBS.
- 8. PROVIDE L2x2x3/16 BRACE FROM JOIST TO BOTTOM FLANGE OF STEEL BEAM AT BEAM MID-SPAN OR AS NOTED ON PLAN. SEE DETAIL 2 / S611.
- 9. PROVIDE STANDARD JOIST BRIDGING AND UPLIFT BRIDGING PER LATEST SJI SPECIFICATIONS AND THE STEEL JOIST SHOP DRAWINGS (TYPICAL).
- 10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, ELEVATIONS AND DETAILS NOT SHOWN. RESOLVE ALL DISCREPANCIES PRIOR TO FABRICATION.
- 11. JOISTS NOTED AS "24KCS3" ARE DESIGNED FOR ROOF TOP EQUIPMENT WITH A MAXIMUM WEIGHT OF 1,500 LBS.



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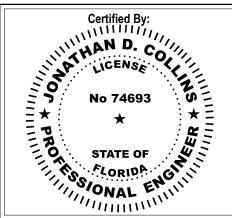
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Drawing Title:

ROOF FRAMING PLAN

Revisions:

Issue Date: Drawn By: Checked By: 02/14/25 AFR



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> Drawing Number: **S121**

Project Number:

TENSION DEVELOPMENT LENGTHS OF ACI STANDARD HOOKS FOR UNCOATED BARS

BAR SIZE	3000 PSI	3500 PSI	4000 PSI	5000 PSI	6000 PSI	7000 PSI	≥8000 PSI
# 3	10	9	9	8	7	7	6
# 4	13	12	12	10	10	9	8
# 5	17	16	15	13	12	11	10
# 6	20	19	17	16	14	13	12
# 7	23	22	20	18	17	15	14
# 8	27	25	23	21	19	18	16
# 9	30	28	26	23	21	20	18
# 10	34	31	29	26	24	22	21
# 11	37	35	32	29	27	25	23
# 14	45	42	39	35	32	29	28
# 18	60	55	52	46	45	39	37

- 1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE. ALL VALUES ARE LENGTHS IN INCHES.
- 2. TENSION DEVELOPMENT LENGTHS OF STANDARD HOOKS ARE CALCULATED PER ACI 318-19, SECTION 25.4.3.
- 3. FOR BAR SIZES #3 THROUGH #11 ONLY, THE FOLLOWING FURTHER REDUCTIONS IN LENGTH CAN BE APPLIED:
- A. IF CONCRETE COVER CONFORMS TO ACI 318-19, SECTION 25.4.3.2:
- a. A MODIFICATION FACTOR OF 0.7 MAY BE APPLIED, HOWEVER: b. THE FINAL CALCULATED LENGTH OF THE HOOK SHALL NOT BE LESS THAN EITHER 8.0 (db) **NOR** 6 INCHES.
- B. IF HOOK IS ENCLOSED IN TIES OR STIRRUPS PER ACI 318-19, SECTION 25.4.3.2:
- a. A MODIFICATION FACTOR OF 0.8 MAY BE APPLIED, HOWEVER: b. THE FINAL CALCULATED LENGTH OF THE HOOK SHALL NOT BE LESS THAN EITHER 8.0 (db) **NOR** 6 INCHES.
- 4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, ALL TABULATED VALUES SHALL BE MULTIPLIED BY A FACTOR OF 1.3.

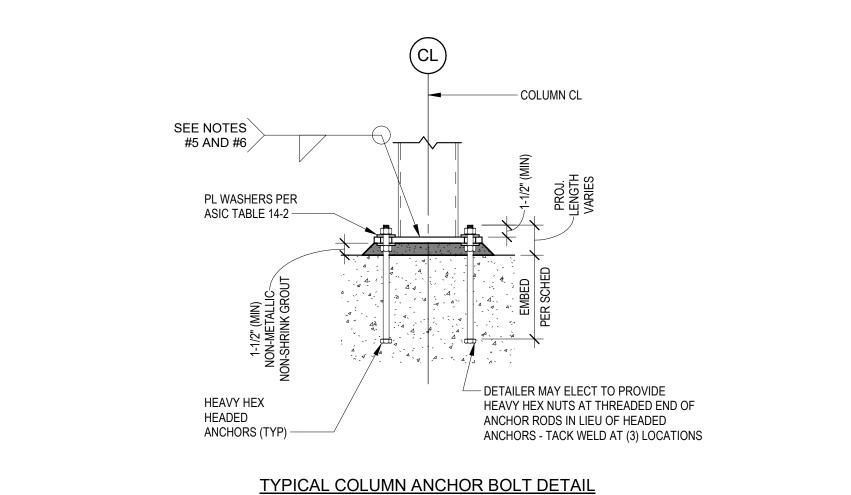
TENSION DEVELOPMENT LENGTHS AND LAP SPLICE LENGTHS FOR UNCOATED BARS

			-																			_			
			3000) PSI			4000	PSI			5000) PSI			6000	PSI			7000	PSI			≥ 800	0 PSI	
BAR SIZE	LAP CLASS	TOP	BARS	OTHE	R BARS	TOP	BARS	OTHER	R BARS	TOP	BARS	OTHER	R BARS	TOP	BARS	OTHER	RBARS	TOP	BARS	OTHER	R BARS	TOP	BARS	OTHER	BARS
J	02/100	CASE 1	CASE 2																						
4 0	Α	22	32	17	25	19	28	15	22	17	25	13	19	15	23	12	18	14	21	12	16	13	20	12	15
# 3	В	28	42	22	32	24	36	19	28	22	33	17	25	20	30	15	23	18	28	14	21	17	26	13	20
# 4	Α	29	43	22	33	25	37	19	29	22	33	17	26	20	31	16	24	19	28	15	22	18	26	14	20
# 4	В	37	56	29	43	32	48	25	37	29	43	22	33	26	40	20	31	25	37	19	28	23	34	18	26
# 5	Α	36	54	28	41	31	47	24	36	28	42	22	32	25	38	20	29	24	35	18	27	22	33	17	25
# 5	В	47	70	36	54	40	60	31	47	36	54	28	42	33	49	25	38	31	46	24	35	29	43	22	33
# 6	Α	43	64	33	50	37	56	29	43	33	50	26	38	31	46	24	35	28	42	22	33	26	40	20	30
# 0	В	56	84	43	64	48	72	37	56	43	65	33	50	40	59	31	46	37	55	28	42	40	51	26	40
#7	Α	63	94	48	72	54	81	42	63	49	73	37	56	44	66	34	51	41	61	32	47	38	58	30	44
# /	В	81	122	63	94	70	106	54	81	63	94	49	73	58	86	44	66	53	80	41	61	50	75	38	58
# 8	Α	72	107	55	82	62	93	48	71	55	63	43	64	51	76	39	58	47	70	36	54	44	66	34	51
# 0	В	93	139	72	107	80	121	62	93	72	108	55	83	66	98	51	76	61	91	47	70	57	85	44	66
# 9	Α	81	121	62	93	70	105	54	81	63	94	48	72	57	85	44	66	53	79	41	61	49	74	38	57
# 3	В	105	157	81	121	91	136	70	105	81	122	63	94	74	111	57	85	69	103	53	79	64	96	49	74
# 10	Α	91	136	70	105	79	118	61	91	70	105	54	81	64	96	49	74	59	89	46	69	56	83	43	64
# 10	В	118	177	91	136	102	153	79	118	91	137	70	105	83	125	64	96	77	116	59	89	72	108	56	83
# 11	Α	101	151	76	116	87	131	67	101	76	117	60	90	71	107	55	82	66	99	51	76	62	93	48	71
# 11	В	131	196	101	151	113	170	87	131	101	152	78	117	93	139	71	107	86	128	66	99	80	120	62	93
# 14	N/A ^[5]	121	161	93	139	105	157	81	121	94	140	72	108	86	128	66	99	79	119	61	91	74	111	57	85
# 18	N/A ^[5]	161	241	124	186	139	209	107	161	125	187	96	144	114	171	88	131	106	158	81	122	99	148	76	114

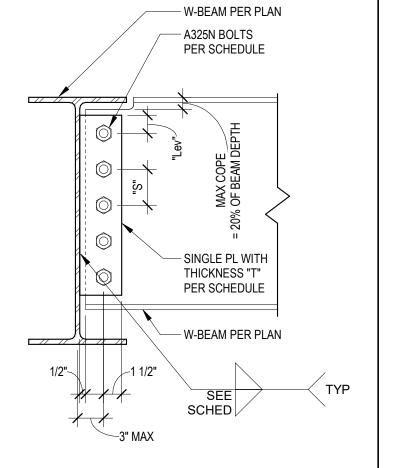
- 1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE. ALL VALUES ARE LENGTHS IN INCHES.
- TENSION DEVELOPMENT AND LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-19, SECTION 25.4.2 AND 25.5.2, RESPECTIVELY. TABULATED VALUES FOR BEAMS AND COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS.
- 3. CASE 1 AND CASE 2 ARE DEPENDENT ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS. CASES ARE DEFINED AS FOLLOWS:

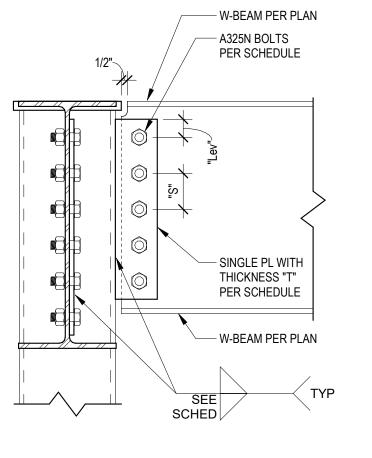
 - a. CASE 1: COVER OF AT LEAST 1.0 (db) <u>AND</u> C-C SPACING OF AT LEAST 2.0 (db) WHERE (db) IS THE DIAMETER OF THE BAR.
 b. CASE 2: COVER LESS THAN 1.0 (db) <u>OR</u> C-C SPACING LESS THAN 2.0 (db)
- B. ALL OTHER STRUCTURAL MEMBERS:
- a. CASE 1: COVER OF AT LEAST 1.0 (db) AND C-C SPACING OF AT LEAST 3.0 (db)
 b. CASE 2: COVER LESS THAN 1.0 (db) OR C-C SPACING LESS THAN 3.0 (db)
- 4. LAP SPLICE LENGTHS ARE MULTIPLES OF THE CALCULATED TENSION DEVELOPMENT LENGTH PER ACI 318-19, SECTION 25.2.2 AS FOLLOWS:
- A. CLASS "A" = 1.0 (Ld) B. CLASS "B" = 1.3 (Ld)
- 5. ACI 318-19 DOES NOT ALLOW TENSION LAP SPLICES OF #14 OR #18 BARS. THE TABULATED VALUES FOR THESE BAR SIZES ARE THE TENSION DEVELOPMENT LENGTHS.
- 6. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- 7. FOR LIGHTWEIGHT AGGREGATE CONCRETE, ALL TABULATED VALUES SHALL BE MULTIPLIED BY A FACTOR OF 1.3.

	STEEL COLUMN AN	D BASE PLATE SCHEDULE
TYPE	HSS 6x6x5/16	COLUMN AND BASE PLATE NOTES:
BASE PLATE PLAN	SEE NOTE	6. UNLESS OTHERWISE NOTED, PROVIDE 5/16" FILLET WELDS AT COLUMN MATERIAL GREATER THAN 1/2" WALL THICKNESS.
BASE PLATE	PL 1" x 1'-2" x 1'-2"	PROVIDE 1/4" FILLET WELD OTHERWISE.
ANCHOR BOLTS	(4) 3/4" DIA. ANCHORS 12" EMBEDMENT	
COLUMN MARK	<u>C1</u>	



STEEL EMBED PLATE SCHEDULE								
EMBED MARK	PLATE SIZE	HEADED STUD QUANTITY AND LAYOUT	EMBED USE	COMMENTS				
EP01	PL 1/2" x 12" x 2'-0" LG.	(8) 5/8" DIA. x 5" LG. HSA	STEEL BEAM TO PANEL CONNECTION					
		1 1/2" 9" 1 1/2" 0 0 PL 1/2" x 12" x 2'-0" LG. (8) 5/8" DIA. HSA	2' - 0"					





CAPACITY [KIPS]	DEAM CIZE	NO OF ASSENDED TO	LIOLE TYPE	PLATE DIN	MENSIONS	BOLT SPACING	MIN. EDGE	FILLET WELD SIZE
(FACTORED)	BEAM SIZE	NO. OF A325N BOLTS	HOLE TYPE	"T"	"L"	(S)	DISTANCE (Lev)	(EA SIDE)
25	W8	(2) 3/4" DIA.	SSLT	3/8"	6"	3"	1 1/2"	1/4"
44	W10	(3) 3/4" DIA.	SSLT	3/8"	8"	2 3/4"	1 1/4"	1/4"
44	W12	(3) 3/4" DIA.	SSLT	3/8"	9"	3"	1 1/2"	1/4"
44	W14	(3) 3/4" DIA.	SSLT	3/8"	9"	3"	1 1/2"	1/4"
63	W16	(4) 3/4" DIA.	SSLT	3/8"	12"	3"	1 1/2"	1/4"
82	W18	(5) 3/4" DIA.	SSLT	3/8"	15"	3"	1 1/2"	1/4"
89	W21	(6) 3/4" DIA.	SSLT	5/16"	18"	3"	1 1/2"	1/4"
108	W24	(7) 3/4" DIA.	SSLT	5/16"	21"	3"	1 1/2"	1/4"
127	W27	(8) 3/4" DIA.	SSLT	5/16"	24"	3"	1 1/2"	1/4"
142	W30	(9) 3/4" DIA.	SSLT	5/16"	27"	3"	1 1/2"	1/4"
157	W33	(10) 3/4" DIA.	SSLT	5/16"	30"	3"	1 1/2"	1/4"
173	W36	(11) 3/4" DIA.	SSLT	5/16"	33"	3"	1 1/2"	1/4"

SHORT-SLOTTED HOLES (TRANSVERSE TO DIRECTION OF LOAD) VALUES ARE BASED ON A MINIMUM WEB THICKNESS OF 1/4" THREADES INCLUDED IN THE SHEAR PLANE (ALLOWED) THREADS EXCLUDED FROM THE SHEAR PLANE

VALUES ARE BASED ON TABLE 10-10a OF THE AISC STEEL CONSTRUCTION MANUAL - 15TH ED.

CONCRETE BEAM SCHEDULE								
COLUMN TYPE	В	Н	TOP REINF.	BOT REINF.	STIRRUPS			
CB1	7 5/8"	32"	(4) #5	(4) #5	#3 AT 12" O.C.			
TOP REINF SEE SCHEDULE BOT REINF SEE SCHEDULE 1 1/2" CLR (4) #5								

CONCRETE COLUMN SCHEDULE								
DLUMN TYPE	В	Н	VERTICAL REINF.	TIES				
CC1	7-5/8"	24"	(8) #5	#3 AT 8" O.C.				
	1	1/2" CLR	TIE REINF - SEE SCHEDULE VERTICAL REINF SEE SCHEDULE					

CONCRETE FOOTING SCHEDULE													
TYPE		SIZE		REINFORCING	REMARKS								
IIFL	WIDTH	LENGTH	DEPTH	KLINI OKOING	KLIWAKKS								
(F 5.0)	5' - 0"	5' - 0"	1' - 4"	(6) #5 x 4' - 6" LG. EA WAY TOP	- SPREAD FOOTING								
1 3.0) 5-0 5-0	5-0 1-		(6) #5 x 4' - 6" LG. EA WAY BOTTOM	SI NEAD I OUTING								
(F.6.0)	6' - 0"	6' - 0"	1' - 4"	(7) #5 x 5' - 6" LG. EA WAY TOP	- SPREAD FOOTING								
\r 0.0		0-0 0-0	0 1 - 4	(7) #5 x 5' - 6" LG. EA WAY BOTTOM	SPREAD FOOTING								
(F.70)	7' 0"	0" 7! 0"	7, 0,,	" 7' 0"	0" 7' 0"	7! 0" 7! 0"	7' 0" 7' 0"	0" 7' 0"	7' 0" 7' 0"	7' - 0"	- 0" 1' - 4"	(8) #5 x 6' - 6" LG. EA WAY TOP	- SPREAD FOOTING
⟨F 7.0⟩	7' - 0"		1 - 4	(8) #5 x 6' - 6" LG. EA WAY BOTTOM	SPREAD FOOTING								
(CE 2) E	21 6"	2' - 6" CONT. 1'	0017 41 01	LONG. (3) #5 x CONT. BOTTOM	- CONTINUOUS FOOTING								
CF 2.5 2' - 6"	2-0		1' - 0"	TRANS. #4 x 2'-0" LG. AT 16" O.C. BOTTOM	CONTINUOUS FOOTING								

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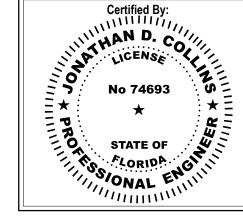
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Drawing Title:

SCHEDULES

Revisions:

Issue Date: Drawn By: Checked By: 02/14/25

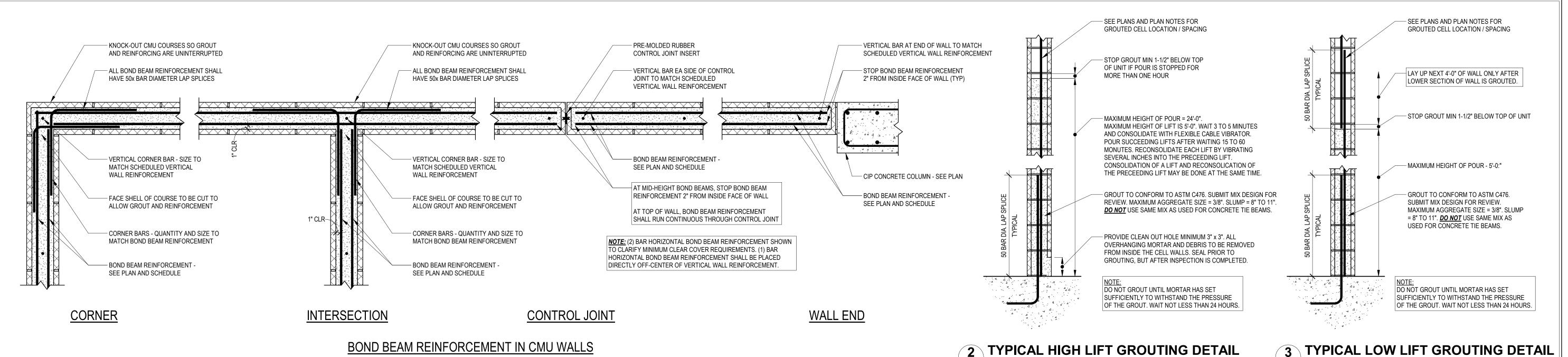


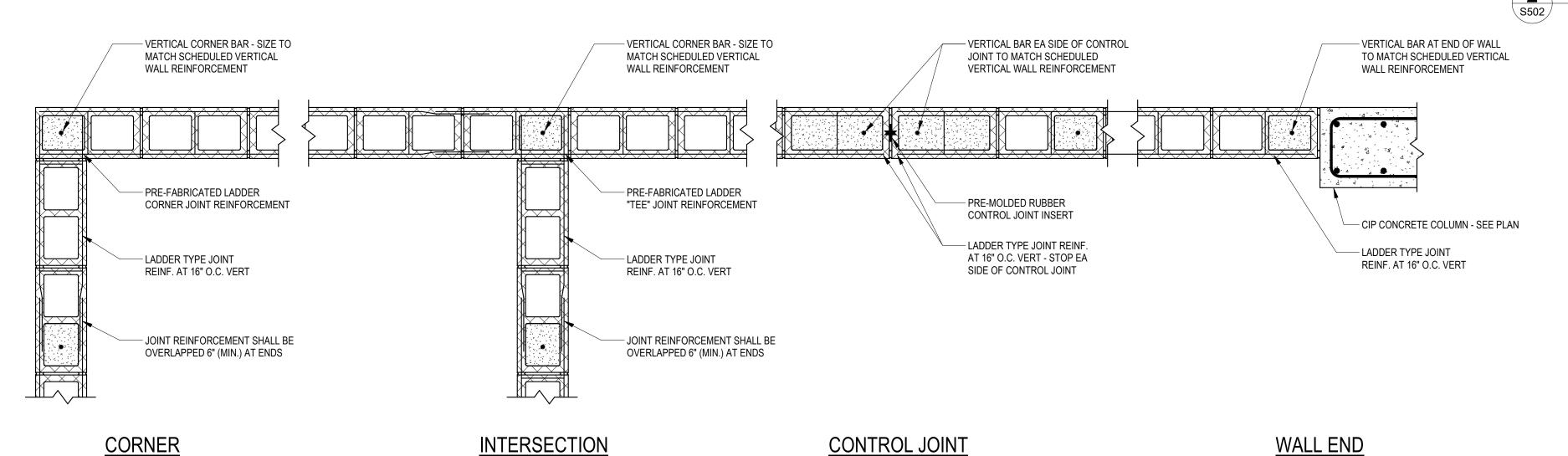
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HORIZ JOINT REINFORCEMENT IN CMU WALLS 5 TYPICAL MASONRY WALL REINFORCING

BACKER ROD & SEALANT AT JOINT CELL AT END OF CMU WALL PRE-MOLDED RUBBER CONTROL JOINT INSERT	(1) ADD'L VERT BAR IN GROUTED CELL EACH SIDE OF JOINT BACKER ROD & PRE-MOLDED RUBBER CONTROL JOINT INSERT	(1) ADD'L VERT BAR IN GROUTED CELL EACH SIDE OF JOINT BACKER ROD & SEALANT AT JOINT (1) ADD'L VERT BAR IN GROUTED CELL EACH SIDE OF JOINT PRE-MOLDED RUBBER CONTROL JOINT INSERT
AT COLUMN	ALONG WALL	<u>AT CORNER</u>

4 TYPICAL MASONRY WALL CONTROL JOINT DETAILS

S502 1" = 1'-0"

S502 1" = 1'-0"

CAST-C	Rete	Al	LLOWAB	LE GRA	VITY LOA	AD	ALLC	WABLE	UPLIFT	LOAD		LOWAB			
OVERALL LINES LENGTH	TVDE OF LINTEL	01.10	8F8-0B	8F16-0B	8F24-0B	8F32-0B	8F8-1T	8F16-1T	8F24-1T	8F32-1T	01.10	050	REINF		
OVERALL LINTEL LENGTH	TYPE OF LINTEL	8U8	8F8-1B	8F16-1B	8F24-1B	8F32-1B	8F8-2T	8F16-2T	8F24-2T	8F32-2T	8U8	8F8	CMU		
0' 0" TO 2' 6"	DDECACT	2024	3069	5163	8054	10951	1569	3524	5263	7001	1005	1004	1500		
2' - 8" TO 3' - 6"	PRECAST	2231	3069	6113	8974	11809	1569	3524	5263	7001	1025	1024	1598		
3' - 7" TO 4' - 0"	PRECAST	1966	2561	3820	5961	8107	1363	3060	4570	6079	765	763	1309		
3-7 10 4-0	FRECAST	1900	2693	6113	8974	11809	1363	3060	4570	6079			1309		
4' - 1" TO 4' - 6"	PRECAST	1599	1969	2931	4576	6224	1207	2707	4043	5379	592	591	1073		
4-1 10 4-0	FINEOAST	1000	2189	6113	8672	11809	1207	2707	4043	5379		391	1073		
4' - 7" TO 5' - 4"	PRECAST	1217	1349	1999	3123	4249	1016	2276	3399	4522	411	411	745		
4-7 10 5-4	TREGAST	1217	1663	5365	7342	10127	1016	2276	3399	4522		711 7	711	743	
5' - 5" TO 5' - 10"	PRECAST	1062	1105	1631	2549	3470	909	2080	3107	4133	340	340	3/10	339	616
3-3 10 3-10	FINEOAST	1002	1451	4360	6036	8328	909	2080	3107	4133		339	010		
5' - 11" TO 6' - 6"	PRECAST	908	1238	3480	3707	5061	835	1868	2790	3712	507	507	721	490	
3-11 10 0-0	FINEOAST	300	1238	3480	8360	8825	835	1868	2790	3712	301	721	430		
6' - 7" TO 7' - 6"	PRECAST	PRECAST 743	1011	2632	2698	3685	727	1624	2426	3228	424	534	363		
0-7 TO 7-0 FIXEGAST	TREGAST		1011	2661	5681	6472	727	1624	2426	3228	727	334			
7' - 7" TO 9' - 4"	PRECAST	554	699	1625	3486	3302	591	1136	1815	2500	326 512	326 512	512	230	
7-1 10 3-4	TREGACT	334	752	1843	3486	6390	591	1318	1969	2619	320	312	200		
9' - 5" TO 10' - 6"	PRECAST	475	535	1247	2777	2536	530	916	1461	2011	284 40.	284 401	284 401	401 18	180
<u> </u>	TREORGI	410	643	1533	2781	4754	530	1180	1763	2346	204	701	100		
10' - 7" TO 11' - 4"	PRECAST	362	582	1366	2423	4006	474	800	1274	1753	260	452	154		
10 7 10 11 4	TREORGI	002	582	1366	2423	4006	494	1042	1643	2187	200	702	104		
11' - 5" TO 12' - 0"	PRECAST	337	540	1254	2193	3552	470	724	1153	1585	244	402	137		
	111207101		540	1254	2193	3552	470	940	1560	2075		102			
12' - 1" TO 13' - 4"	PRECAST	296	471	1075	1838	2883	418	607	964	1323	217	324	110		
			471	1075	1838	2883	428	780	1418	1887					
13' - 5" TO 14' - 0"	PRECAST	279	424	1002	1697	2630	384	560	889	1220	205	293	100		
		•	442	1002	1697	2630	410	717	1358	1807					
14' - 1" TO 14' - 8"	PRESTRESSED	NR	NR	NR	NR	NR	239	520	825	1131	NR	284	91		
- · · · · -			458	1370	2245	2712	246	663	1303	1734					
14' - 9" TO 15' - 4"	PRESTRESSED	NR	NR	NR	NR	NR	224	486	769	1054	NR	259	83		
			412	1250	2058	2513	230	616	1240	1668			1		

NR

15' - 5" TO 17' - 4"

7 5/8" ACTUAL

8" MASONRY

TYPE: L1 8F16-1B

CLEAR OPENING ≤ 4'-0" (U.N.O.)

MANUFACTURER RECOMMENDATIONS

SHORE PRECAST LINTEL PER

- VERT WALL REINF.

- GROUTED SOLID

- (1) #5 BAR CONT. (MIN)

U-SHAPED PRECAST CONC.

LINTEL - SEE CAST-CRETE LOAD

TABLES AS BASIS OF DESIGN

1 TYPICAL PRECAST LINTEL SCHEDULE

187

192

1609 2047

7 5/8" ACTUAL

8" MASONRY

TYPE: L2 8F16-1B/1T

CLEAR OPENING ≤ 6'-8" (U.N.O.)

SHORE PRECAST LINTEL PER MANUFACTURER RECOMMENDATIONS

VERT WALL REINF.

- GROUTED SOLID

(1) #5 BAR CONT. TOP

- (1) #5 BAR CONT. (MIN)

U-SHAPED PRECAST CONC.

TABLES AS BASIS OF DESIGN

LINTEL - SEE CAST-CRETE LOAD

638

1005 1473

405

506

873

7 5/8" ACTUAL

8" MASONRY

TYPE: L3 8F24-1B/1T

CLEAR OPENING ≤ 11'-4" (U.N.O.)

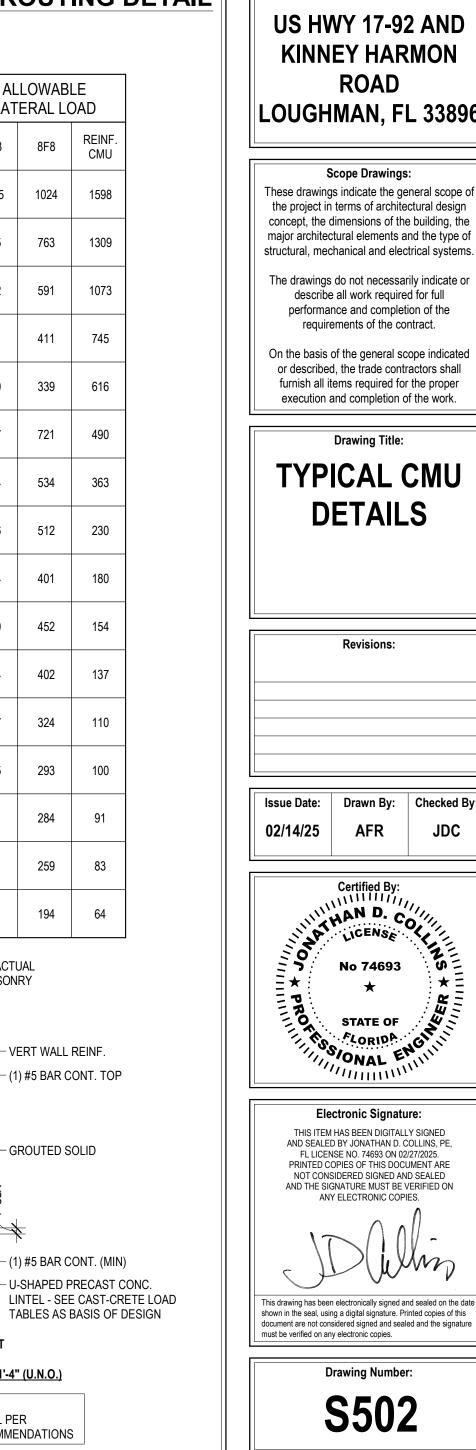
MANUFACTURER RECOMMENDATIONS

SHORE PRECAST LINTEL PER

NOTE:

- GROUTED SOLID

S502





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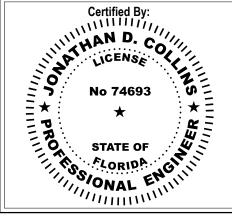
execution and completion of the work.

Drawing Title: TYPICAL CMU **DETAILS**

Issue Date:	Drawn By:	Checked By:

Revisions:

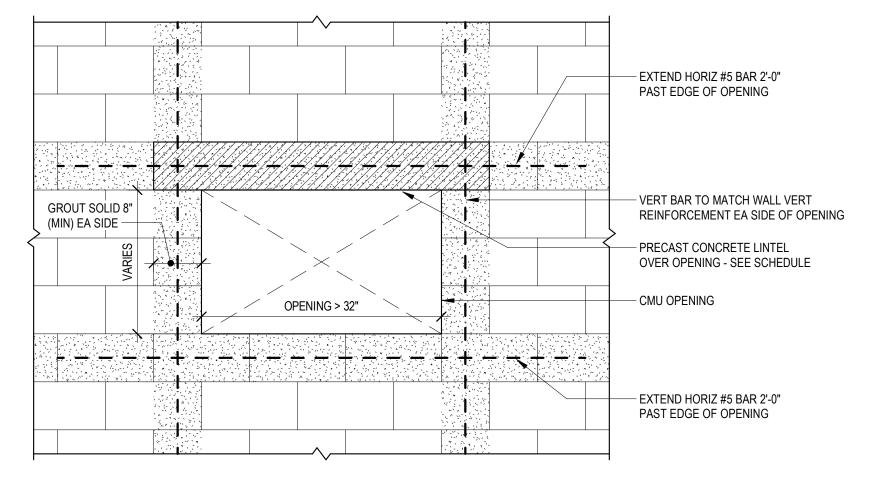
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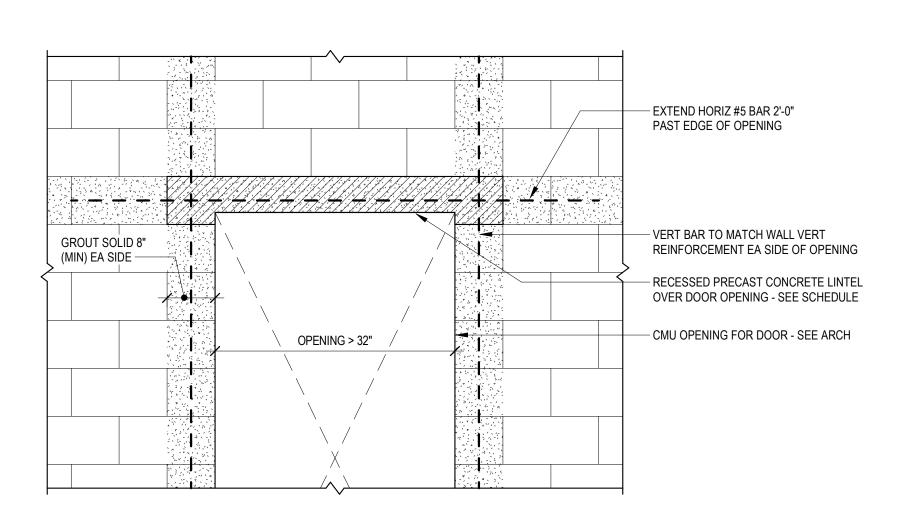
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Project Number:

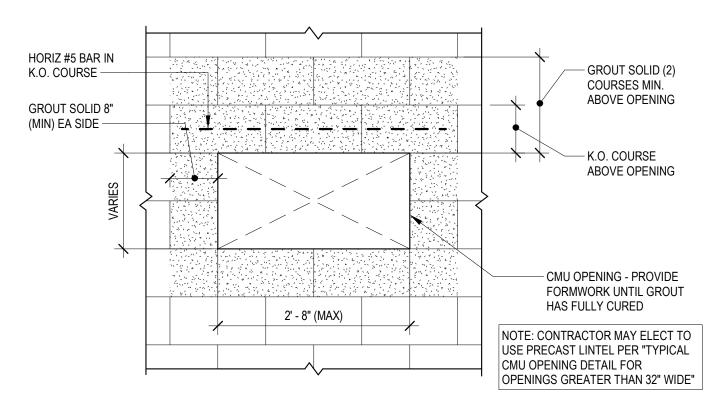


TYPICAL CMU OPENING DETAIL **5** FOR 32" WIDE OPENING OR GREATER

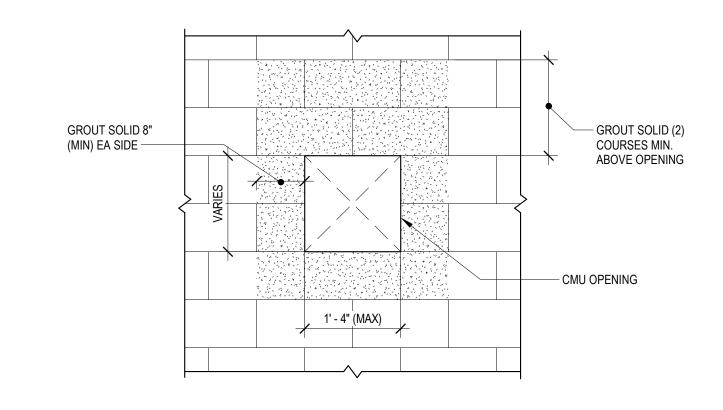
S503



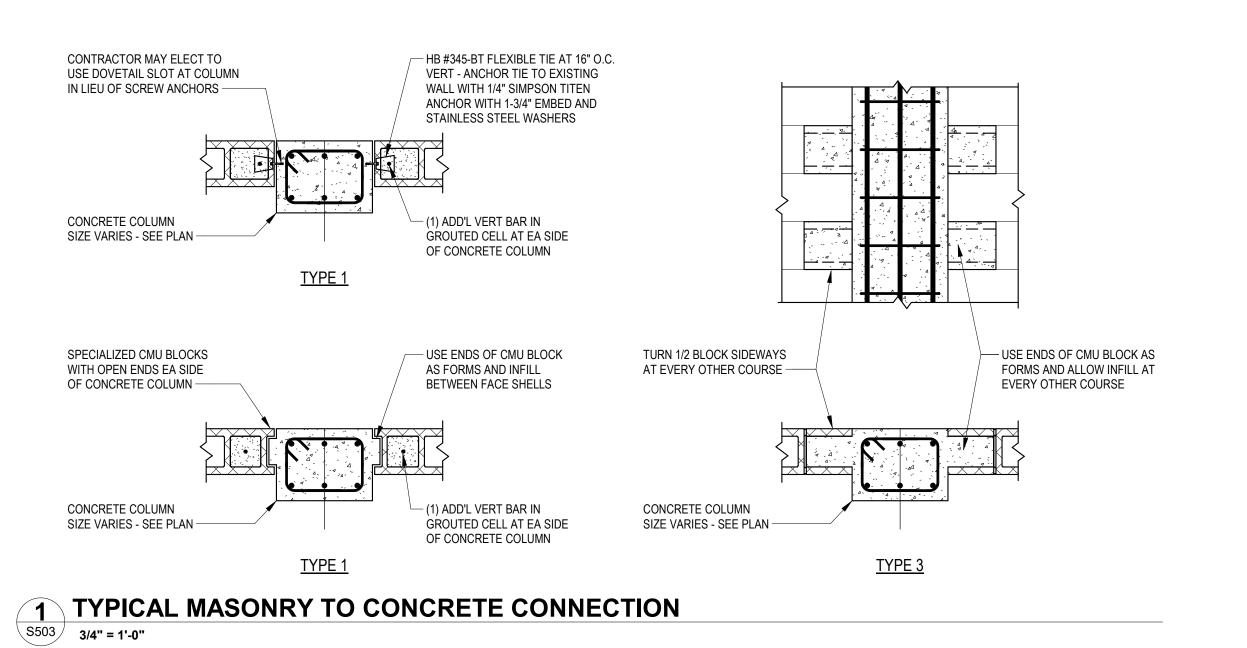
4 TYPICAL CMU OPENING DETAIL FOR DOORS S503 N.T.S.



TYPICAL CMU OPENING DETAIL **3** FOR 32" WIDE OPENING OR LESS S503 N.T.S.



TYPICAL CMU OPENING DETAIL **2** FOR 16" WIDE OPENING OR LESS



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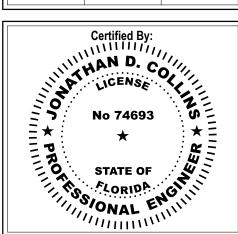
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Drawing Title:

TYPICAL CMU DETAILS

	Rev	isions:	

02/14/25

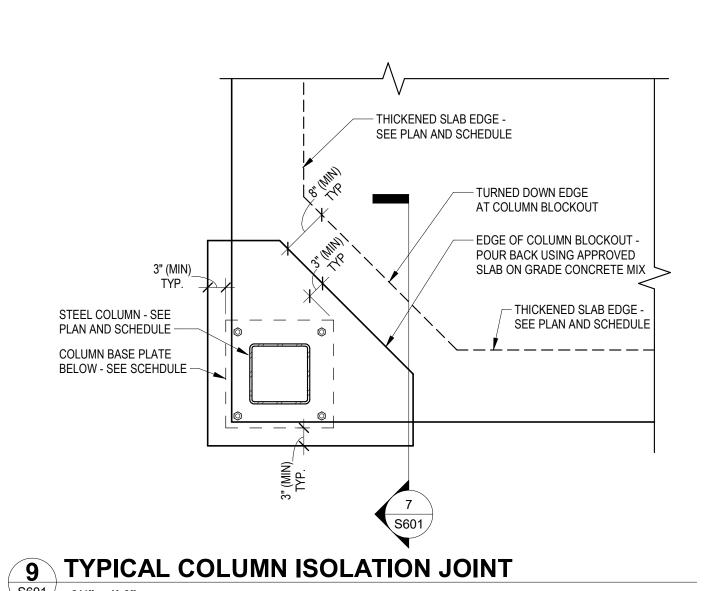


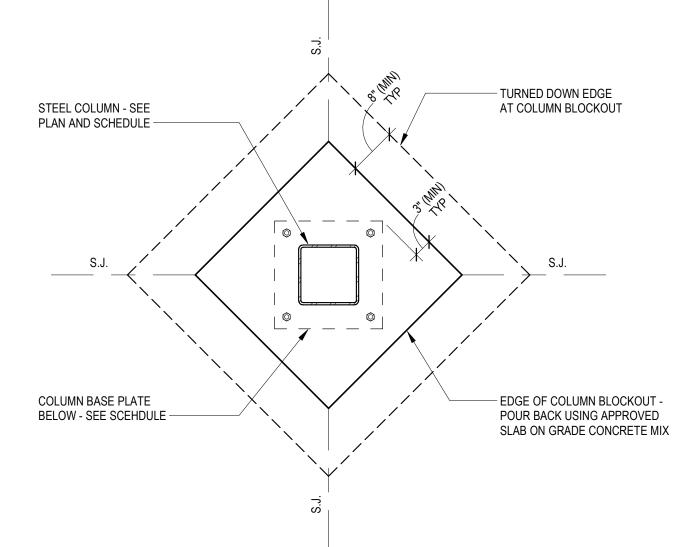
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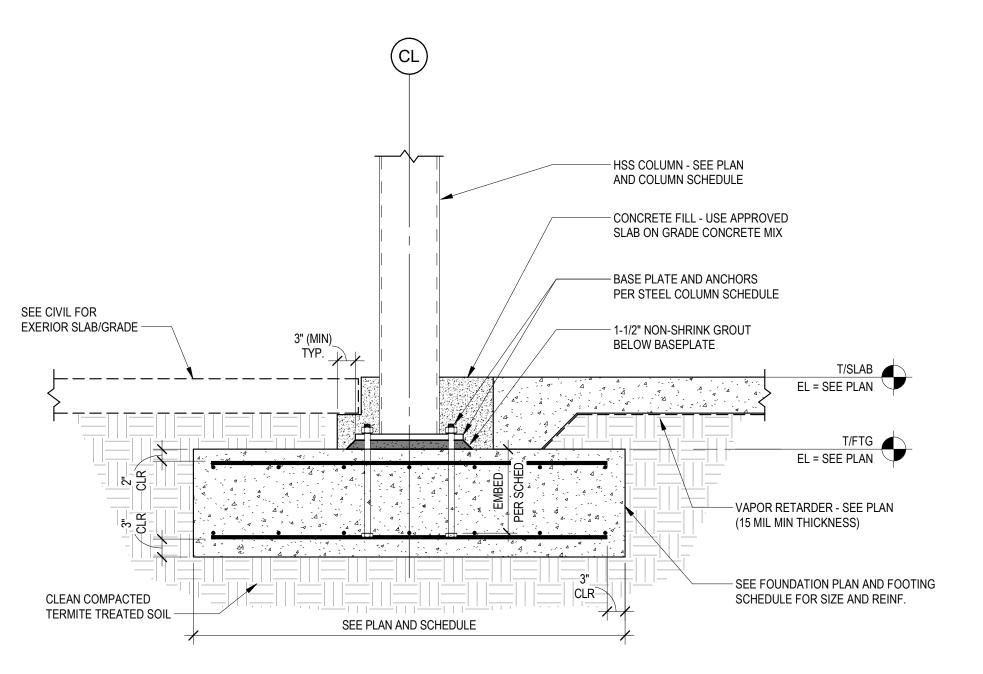
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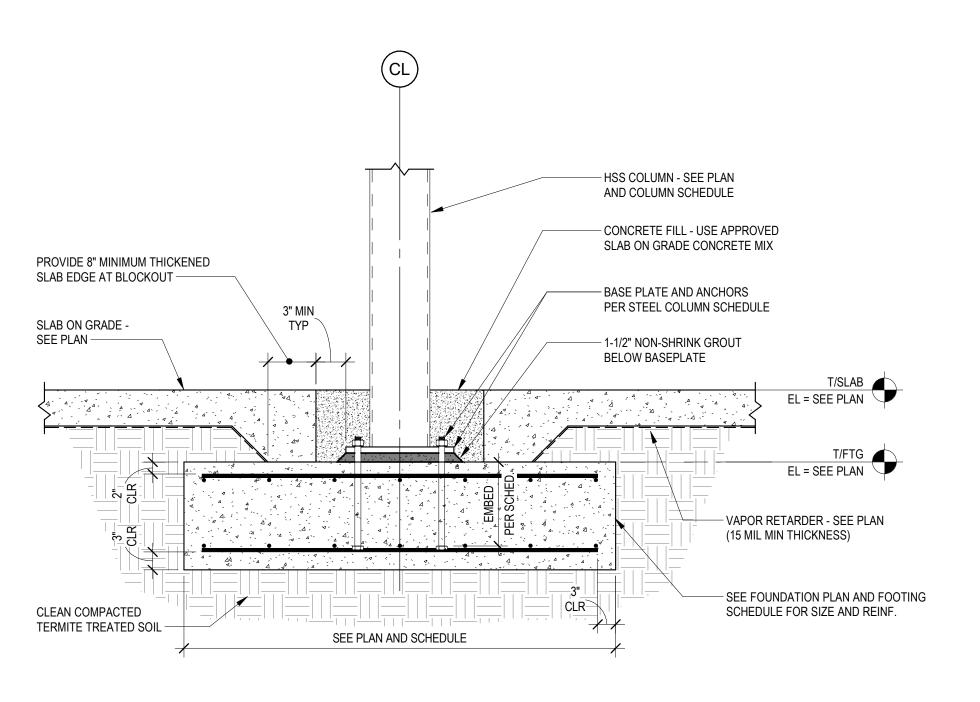




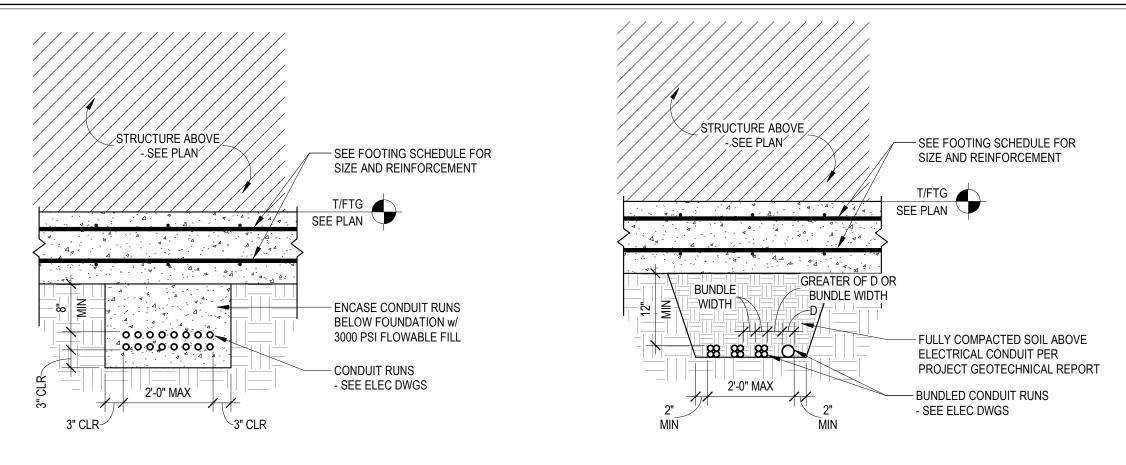
8 TYPICAL COLUMN ISOLATION JOINT



EXTERIOR COLUMN FOOTING SECTION



6 INTERIOR COLUMN FOOTING SECTION S601 3/4" = 1'-0"



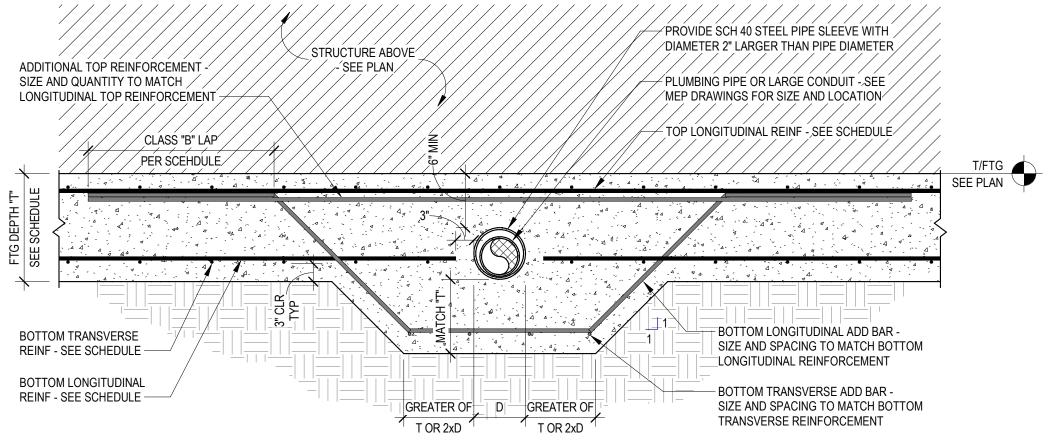
TYPICAL ELECTRICAL CONDUIT 4 PLACED AFTER FOUNDATION

TYPICAL ELECTRICAL CONDUIT **5** PLACED BEFORE FOUNDATION

DIAMETER 2" LARGER THAN PIPE DIAMETER

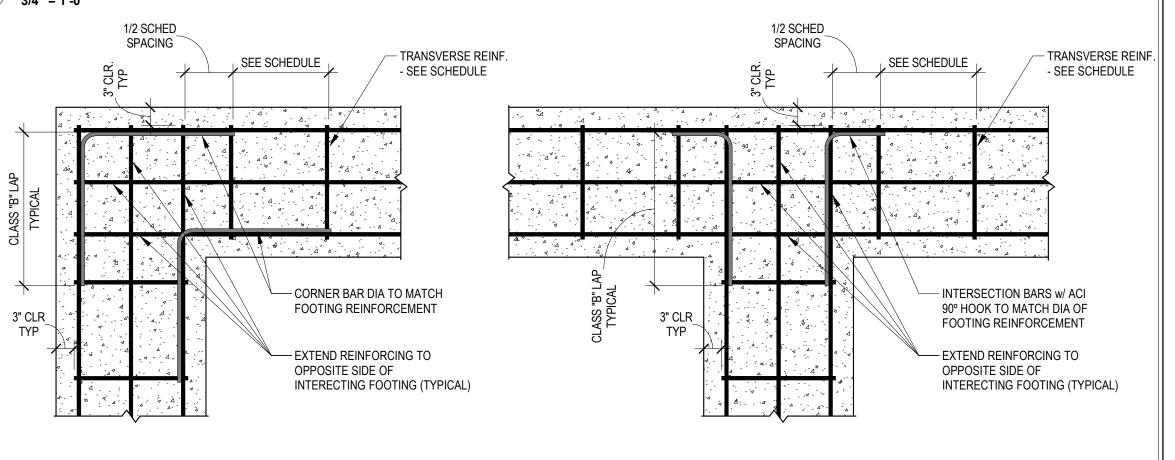
- ADDITIONAL TOP REINFORCEMENT x 8'-0" LG. -SIZE AND QUANTITY TO MATCH LONGITUDINAL TOP REINFORCEMENT STRUCTURE ABOVE - SEE PLAN TOP LONGITUDINAL REINF - SEE SCHEDULE CONCRETE FILL AT PIPE SLEEVE BELOW FOOTING BOTTOM TRANSVERSE REINF - SEE SCHEDULE -BOTTOM LONGITUDINAL PLUMBING PIPE OR LARGE CONDUIT - SEE REINF - SEE SCHEDULE -MEP DRAWINGS FOR SIZE AND LOCATION PROVIDE SCH 40 STEEL PIPE SLEEVE WITH

3 TYPICAL CONTINUOUS FOOTING WITH PIPE SLEEVE BELOW FOOTING



TYPICAL CONTINUOUS FOOTING WITH PIPE SLEEVE THROUGH FOOTING

3/4" = 1'-0"



CORNER <u>INTERSECTION</u> **CONTINUOUS FOOTING CORNER & INTERSECTION REINFORCEMENT**

S601 3/4" = 1'-0"

ARCHITECTURE

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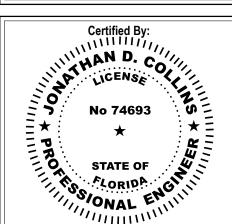
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Drawing Title:

FOUNDATION & SLAB DETAILS

Revisions:

Issue Date: Drawn By: Checked By: 02/14/25

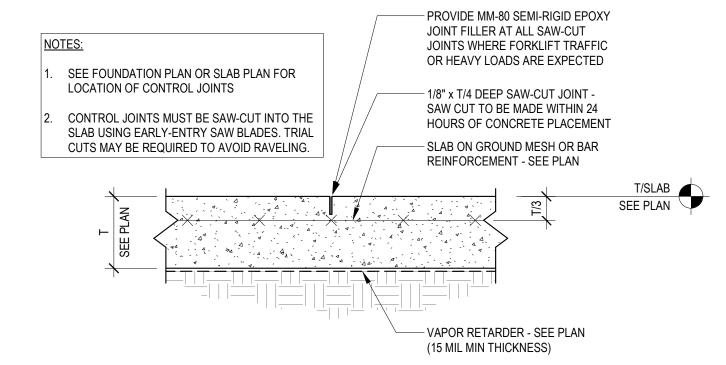


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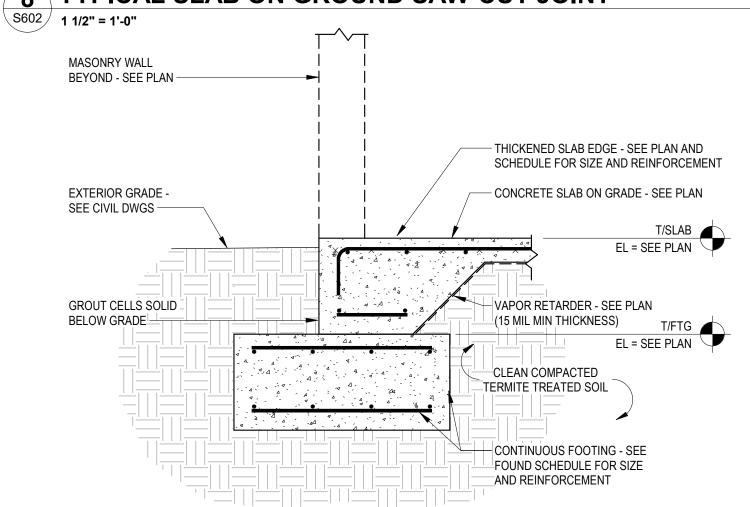
> Drawing Number: **S601**

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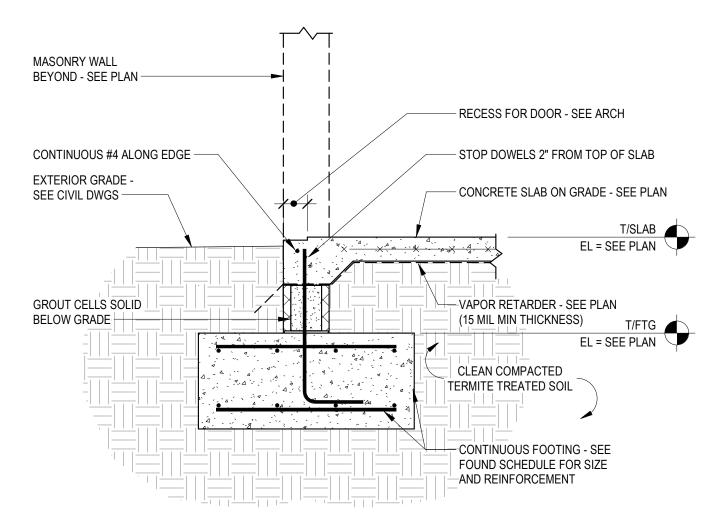


8 TYPICAL SLAB ON GROUND SAW-CUT JOINT

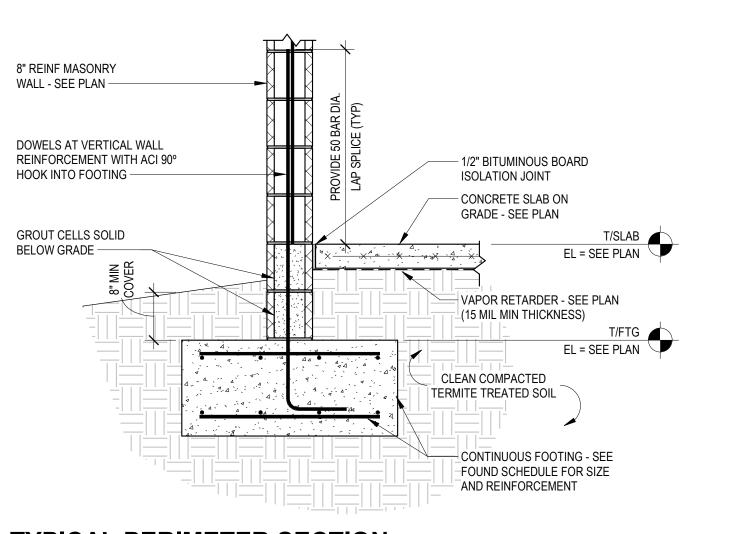


TYPICAL SECTION AT LARGE OPENING

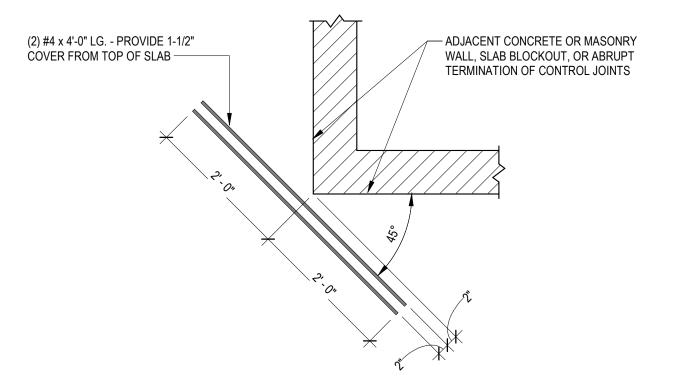
S602 3/4" = 1'-0"



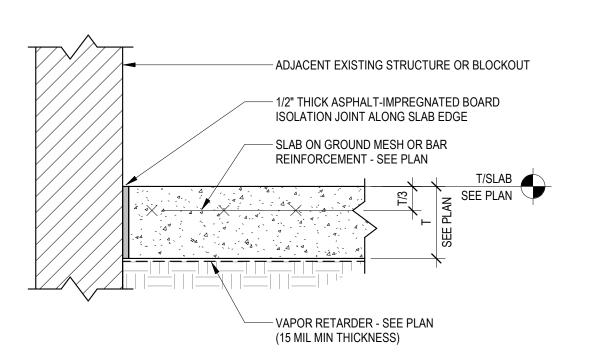
6 TYPICAL SECTION AT DOOR



5 TYPICAL PERIMETER SECTION 3/4" = 1'-0"



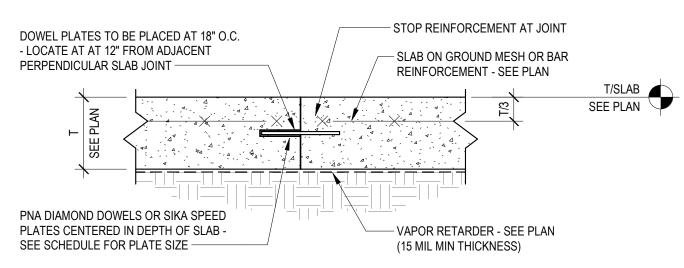
4 TYPICAL SLAB RE-ENTRANT BARS



3 TYPICAL SLAB ISOLATION JOINT

S602 1 1/2" = 1'-0"

DOWEL PLATE SCHEDULE						
SLAB DEPTH (IN)	PNA DIAMOND DOWEL	SIKA SPEED PLATE				
5 - 6	1/4"t x 4-1/2" x 4-1/2"	1/4"t x 4"w x 6"lg				
7 - 8	3/8"t x 4-1/2" x 4-1/2"	3/8"t x 4"w x 6"lg				
9 - 11	3/4"t x 4-1/2" x 4-1/2"	3/4"t x 4"w x 6"lg				



SLAB CONSTRUCTION JOINT - DOWEL PLATES

SMOOTH DOWEL SCHEDULE

SLAB DEPTH (IN) DWL DIA (IN) LENGTH (IN)

5/8

	-				
	6	3/4	18		
	7	7/8	24		
	8	1	24		
	9	1 1/8	24		
	10	1 1/4	24		
SMOOTH DOWEL TO BE SAENDS TO PREVENT DEFOR	AND LENGTH AND LE		SLAB ON REINFORG	GROUND MESH OR BAR CEMENT - SEE PLAN ETARDER - SEE PLAN N THICKNESS)	T/SLAB SEE PLAN

18

18

SLAB CONSTRUCTION JOINT - SMOOTH DOWELS

S602 1 1/2" = 1'-0"

ARCHITECTURE

Owner:

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US HWY 17-92 AND KINNEY HARMON ROAD ||LOUGHMAN, FL 33896

Scope Drawings:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

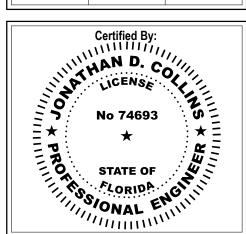
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On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

Drawing Title: FOUNDATION & SLAB DETAILS

Revisions:

Issue Date: Drawn By: Checked By: 02/14/25 AFR

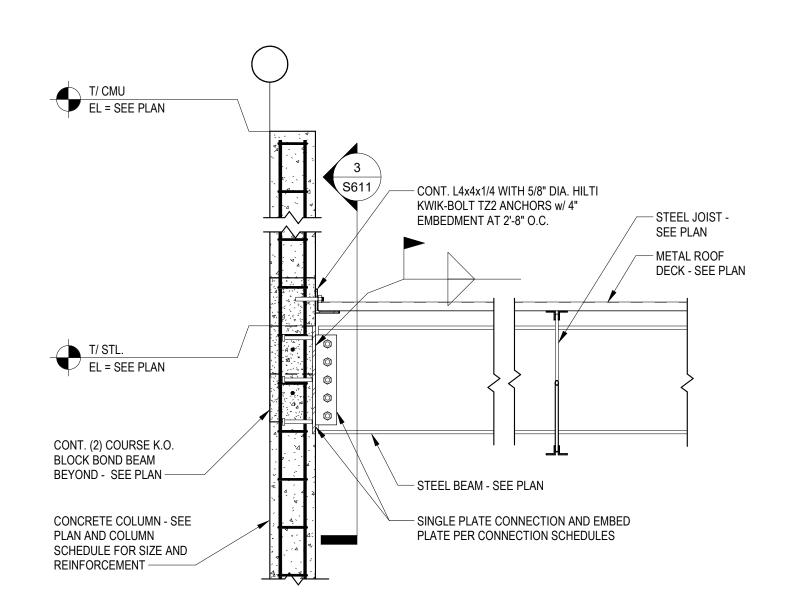


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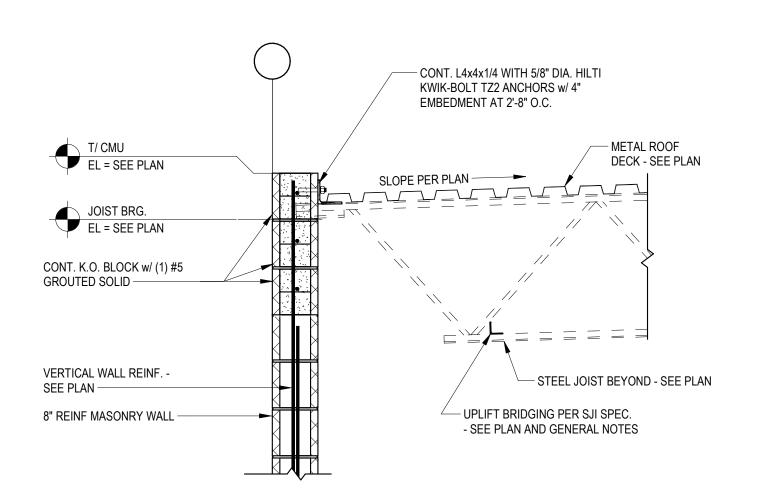
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Drawing Number: S602

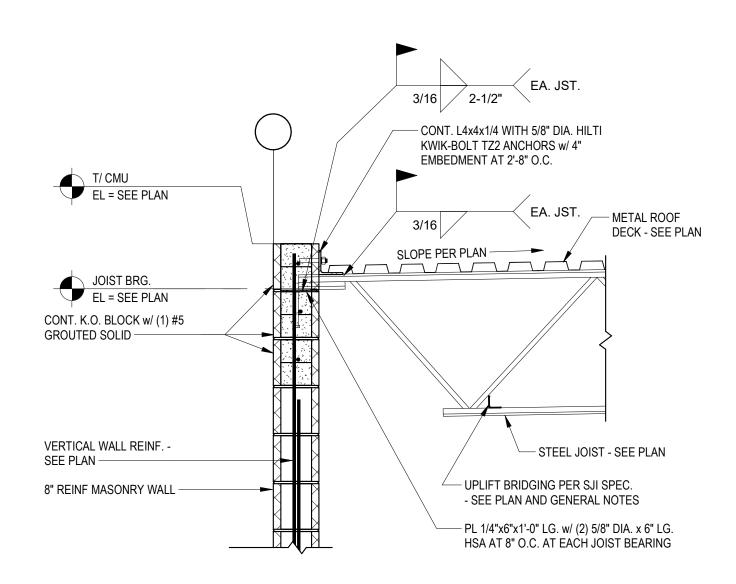
Project Number:



10 TYPICAL SECTION AT STEEL BEAM BEARING S611 3/4" = 1'-0"

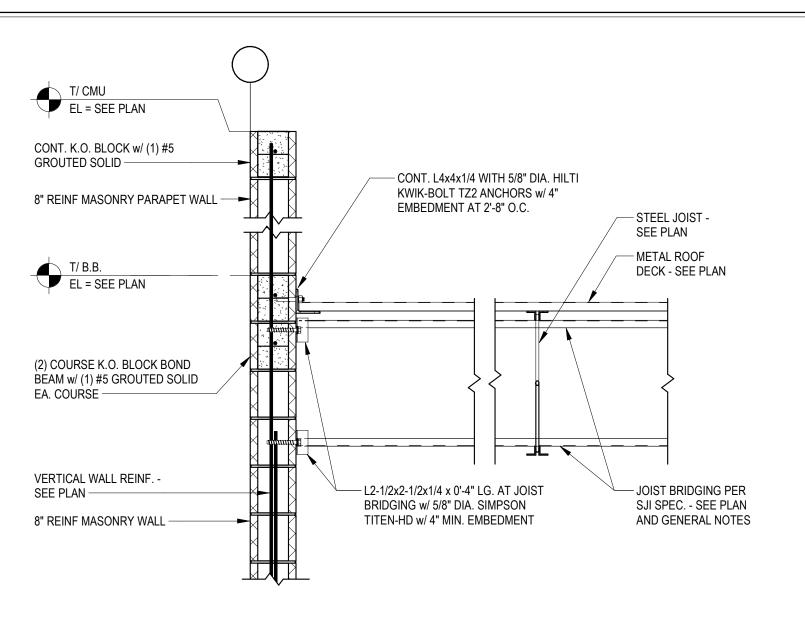


8 TYPICAL SECTION AT DECK BEARING S611 3/4" = 1'-0"

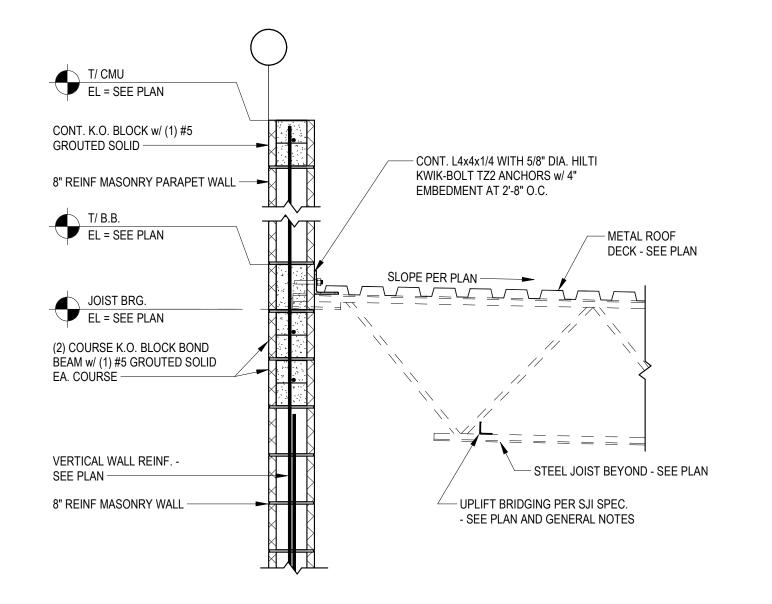


TYPICAL SECTION AT JOIST BEARING

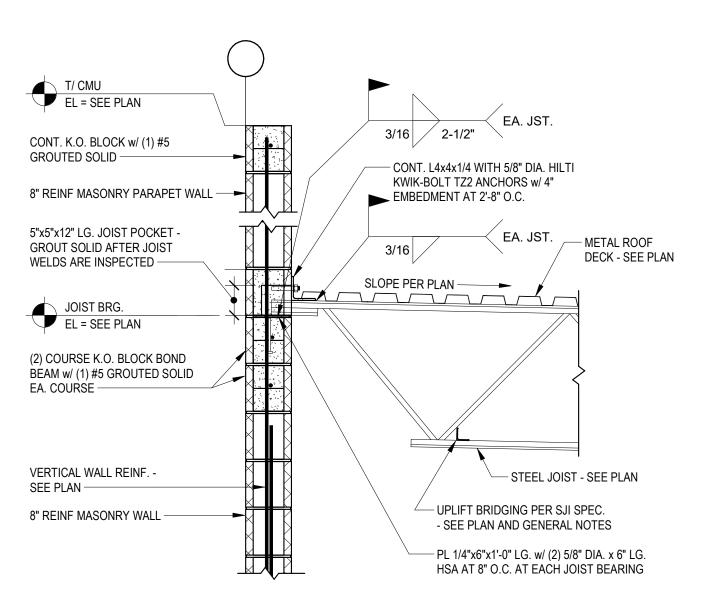
S611 3/4" = 1'-0"



6 TYPICAL SECTION AT DECK BEARING PARALLEL TO JOIST S611 3/4" = 1'-0"

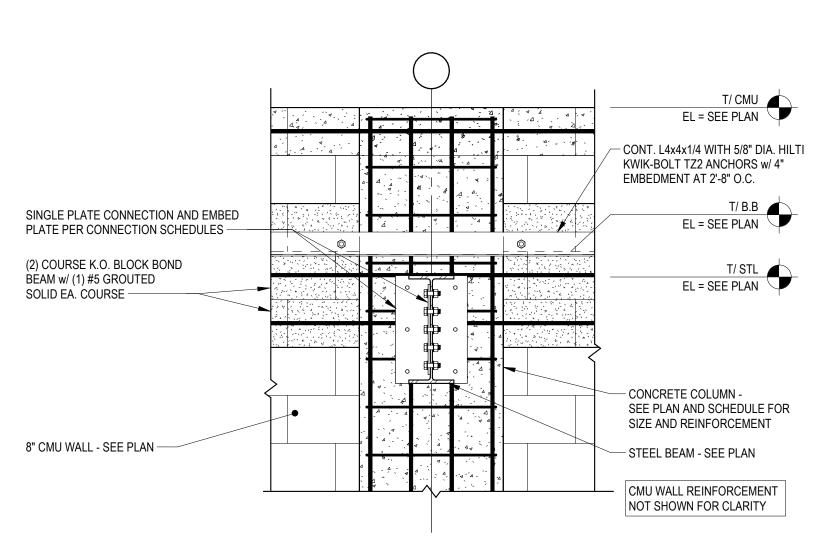


5 TYPICAL SECTION AT DECK BEARING S611 3/4" = 1'-0"

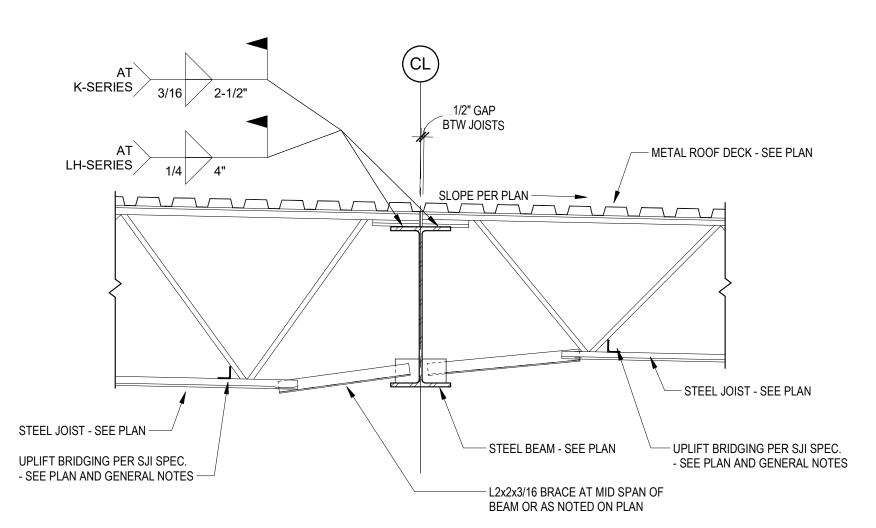


4 TYPICAL SECTION AT JOIST BEARING

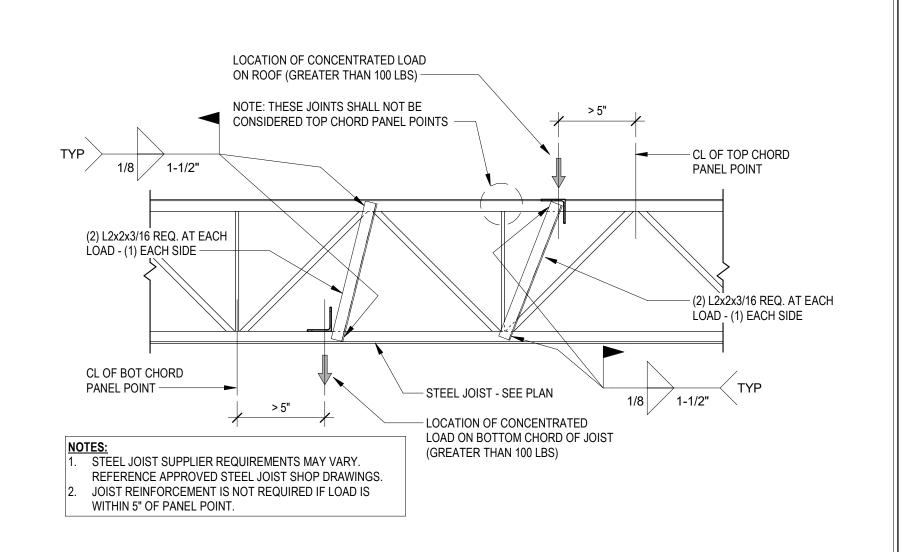
S611 3/4" = 1'-0"



3 STEEL BEAM EMBED AT CMU WALL AND BOND BEAM S611 3/4" = 1'-0"



2 TYPICAL STEEL JOIST BRACE TO WIDE FLANGE GIRDER S611 3/4" = 1'-0"



1 TYPICAL STEEL JOIST REINF AT CONCENTRATED LOADS

S611 3/4" = 1'-0"



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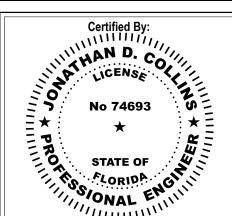
performance and completion of the requirements of the contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

> **Drawing Title: ROOF FRAMING**

DETAILS & SECTIONS Revisions:

-			
	Issue Date:	Drawn By:	Checked By
	02/14/25	AFR	JDC

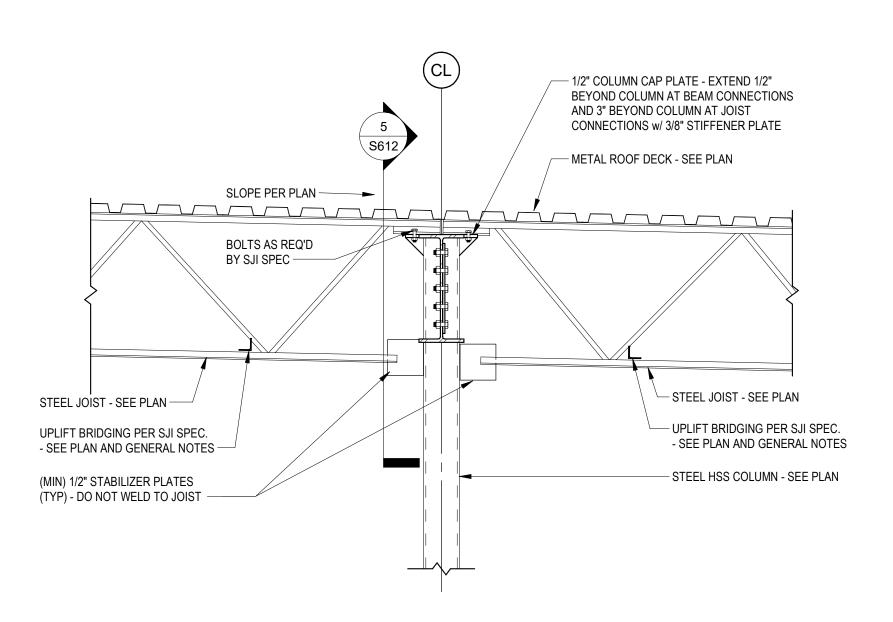


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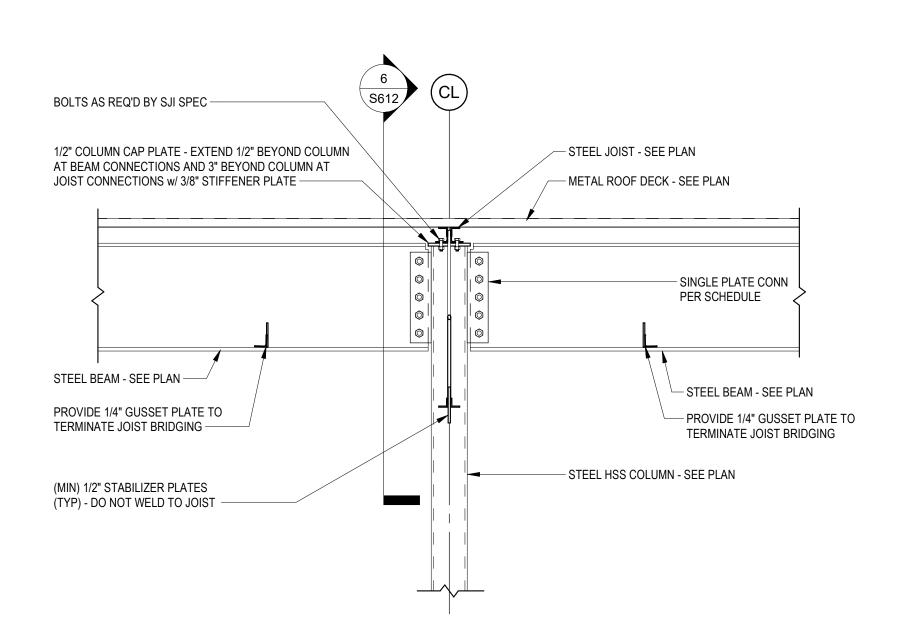
> Drawing Number: **S611**

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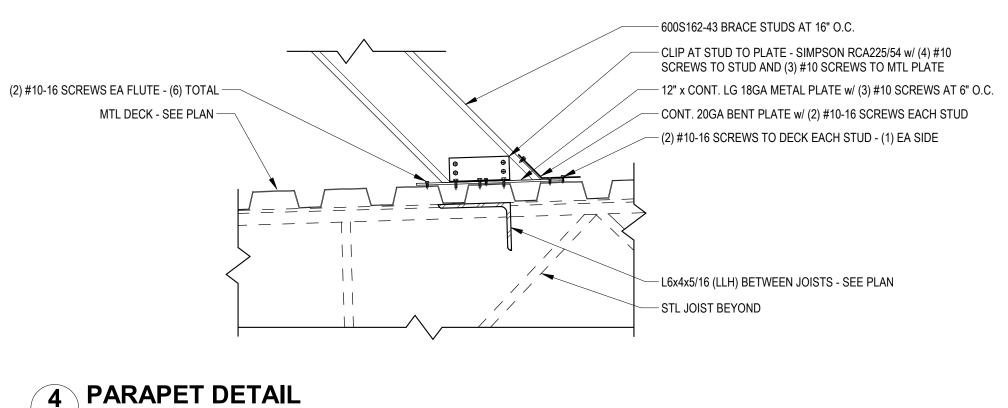


6 TYPICAL BEAM AND JOIST SECTION AT COLUMN S612 3/4" = 1'-0"



5 TYPICAL JOIST AND BEAM SECTION AT COLUMN S612 3/4" = 1'-0"

S612 1 1/2" = 1'-0"

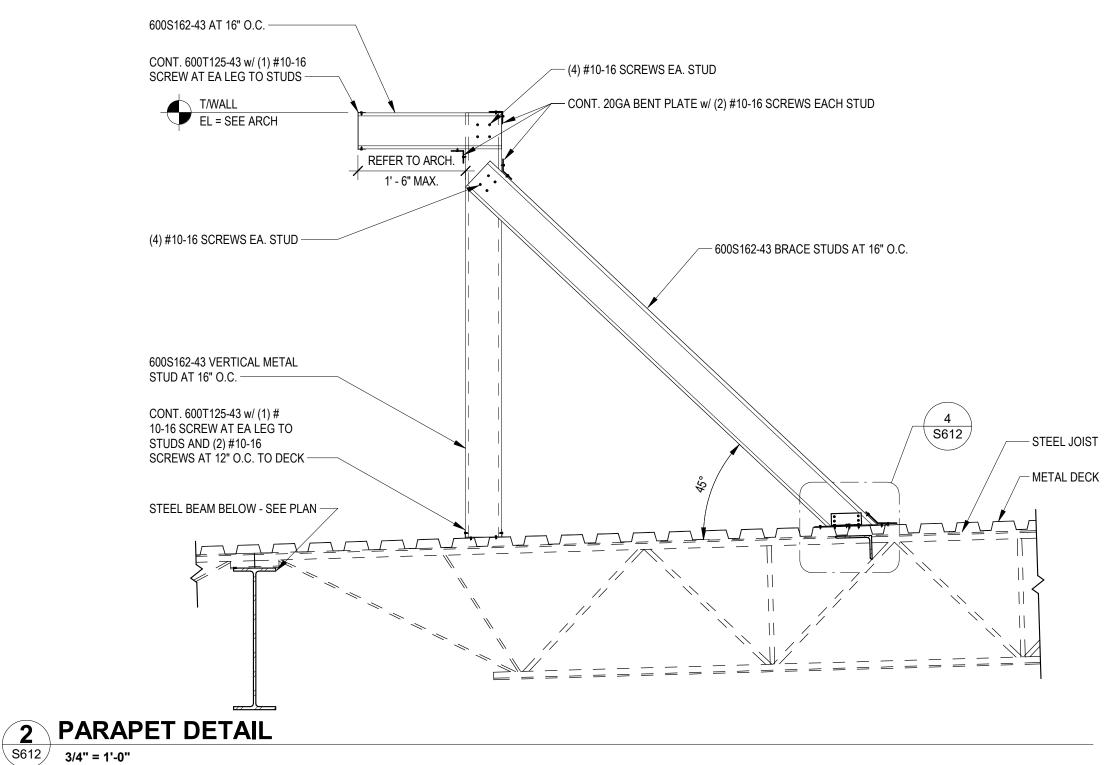


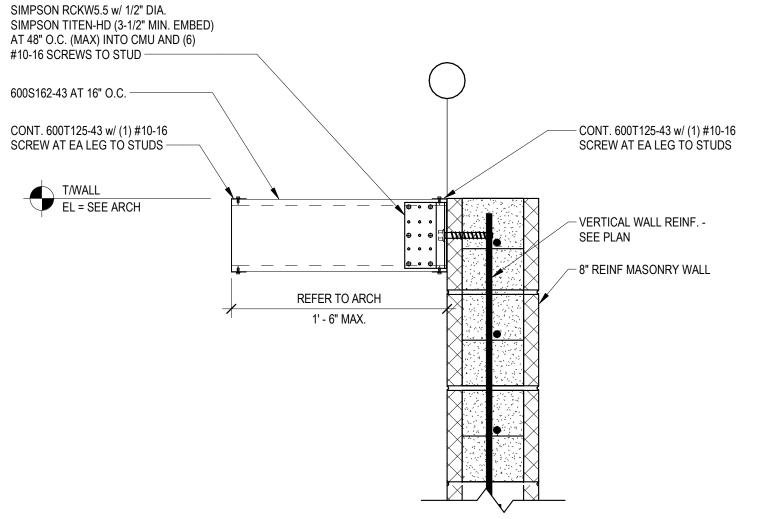
1 TYPICAL CFS STUD FRAMING AT TOP OF PARAPET S612 1 1/2" = 1'-0"

- 600S162-43 AT 16" O.C. (4) #10-16 SCREWS EA. STUD — - CONT. 600T125-43 w/ (1) #10-16 SCREW AT EA LEG TO STUDS CONT. 20GA BENT PLATE w/ (2) # T/WALL EL = SEE ARCH 10-16 SCREWS EACH STUD (4) #10-16 SCREWS EA. STUD -REFER TO ARCH. 1' - 6" MAX. 600S162-43 BRACE STUDS AT 16" O.C. — - 600S162-43 VERTICAL METAL STUD AT 16" O.C. - CONT. 600T125-43 w/ (1) # 10-16 SCREW AT EA LEG TO STUDS AND (2) #10-16 SCREWS AT 12" O.C. TO DECK ─ METAL DECK — STEEL JOIST — STEEL JOIST

PARAPET DETAIL

S612 3/4" = 1'-0"





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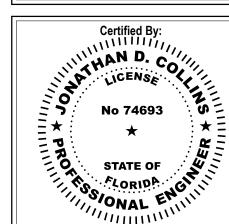
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> **Drawing Title: FRAMING DETAILS &**

SECTIONS Revisions:

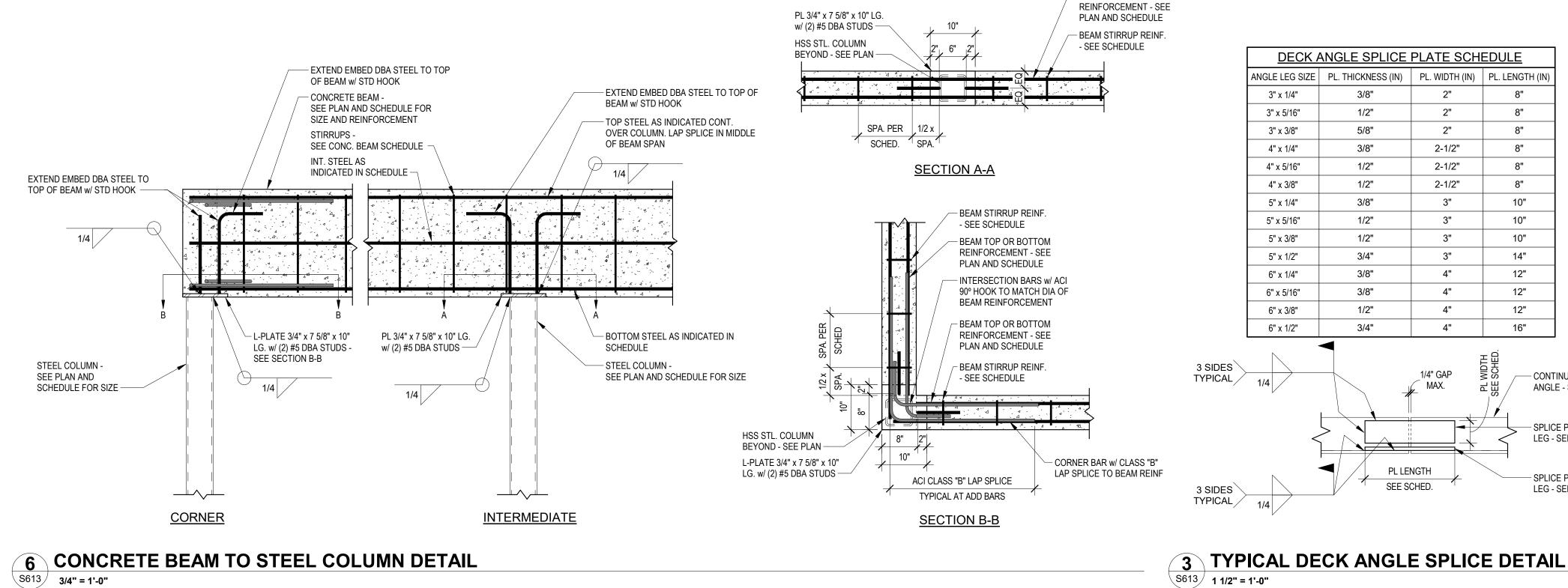
Issue Date: Drawn By: Checked By: 02/14/25

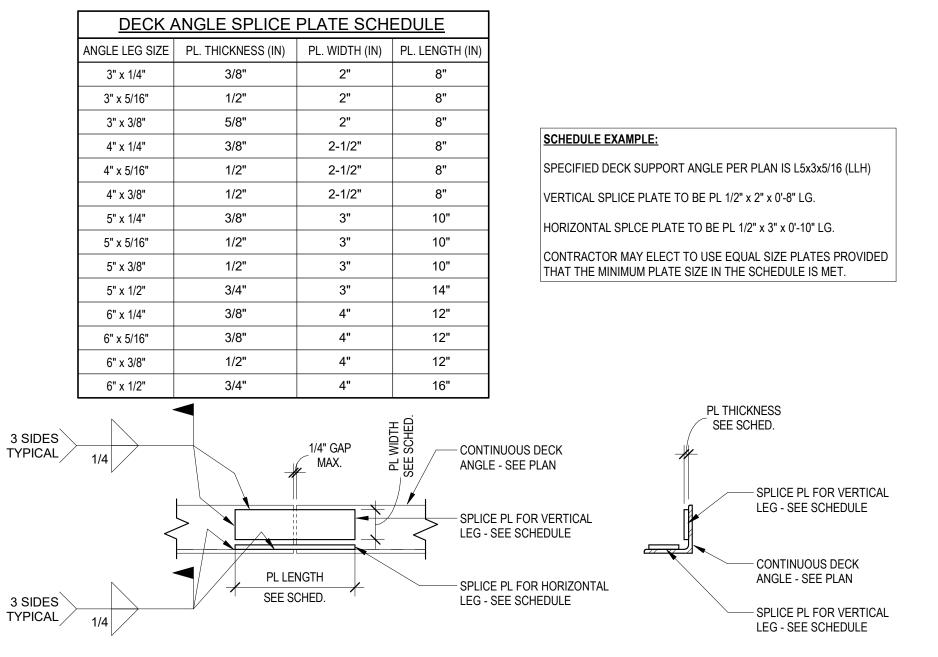


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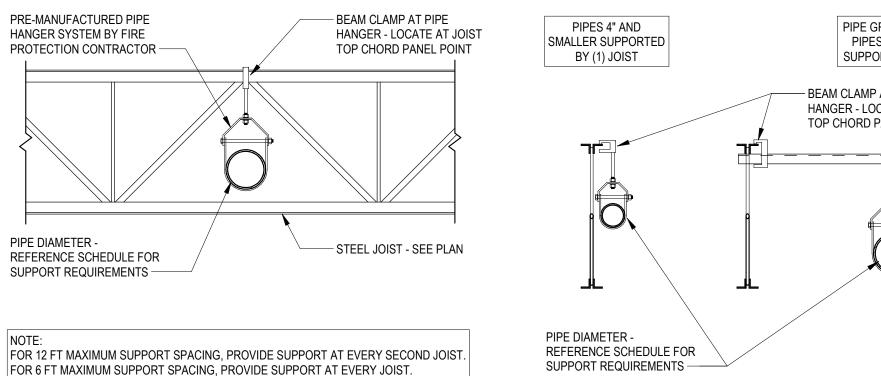


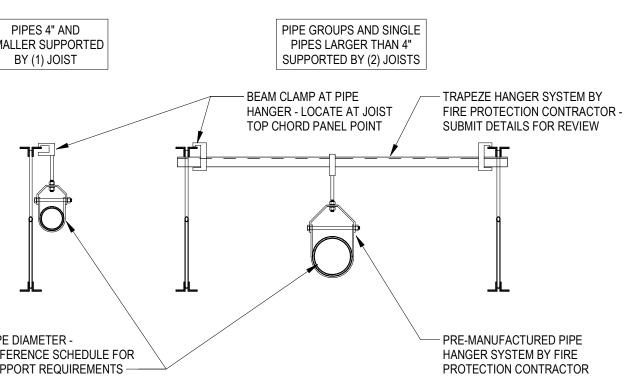
6 CONCRETE BEAM TO STEEL COLUMN DETAIL

WATER PIPE SUPPORT SCHEDULE						NOTES:		
PIPE NOMINAL DIA. (IN.)	PIPE WEIGHT (LB/FT)	PARALLEL PIPE MAX SUPPORT SPACING (FT)	CONCENTRATED LOAD ON SUPPORT (LB)	PERPENDICULAR PIPE MAX SUPPORT SPACING (FT)	CONCENTRATED LOAD ON SUPPORT (LB)	 PIPES IN TABLE ARE ASSUMED TO BE SCHEDULE 40 (OR STANDARD) ASTM A53 GRADE B STEEL PIPE. PIPE WEIGHT PROVIDED INCLUDES WEIGHT OF PIPE + WATER. EXACT PIPING LAYOUT IS TO BE PROVIDED BY FIRE PROTECTION SPRINKLER SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE PROPOSED LOCATION OF ALL PIPE RUNS AND INTENDED PIPE SUPPORT DE 		
2 1/2"	8.0	12	96	12	96	AND ACCESSORIES.		
3"	11.0	12	132	12	132	 (*) IN SCHEDULE INDICATES PIPES RUNNING PARALLEL WITH JOISTS WHERE PIPE SUPPORTS MUST BE DISTRIBUTED ACROSS (2) JOISTS. LOAD PROVIDED IS THE EXPECTED CONCENTRATED LOAD ON EACH. 		
4"	17.0	8	136	12	204	5. ANY PROPOSED PIPING LARGER THAN 8" NOMINAL DIAMETER MUST BE BROUGHT TO THE ATTENTION C		
6"	32.0	12 *	192 *	6	192	THE STRUCTURAL ENGINEER OF RECORD WITH PROPOSED PIPE SUPPORT DETAILS AND ROUTING. 6. ALL PIPING SHALL BE INSTALLED SO THAT ALL PIPES, PIPE HANGERS, ETC. ARE LOCATED ABOVE THE		
8"	51.0	12 *	306 *	6	306	BOTTOM OF THE ROOF FRAMING MEMBERS.		

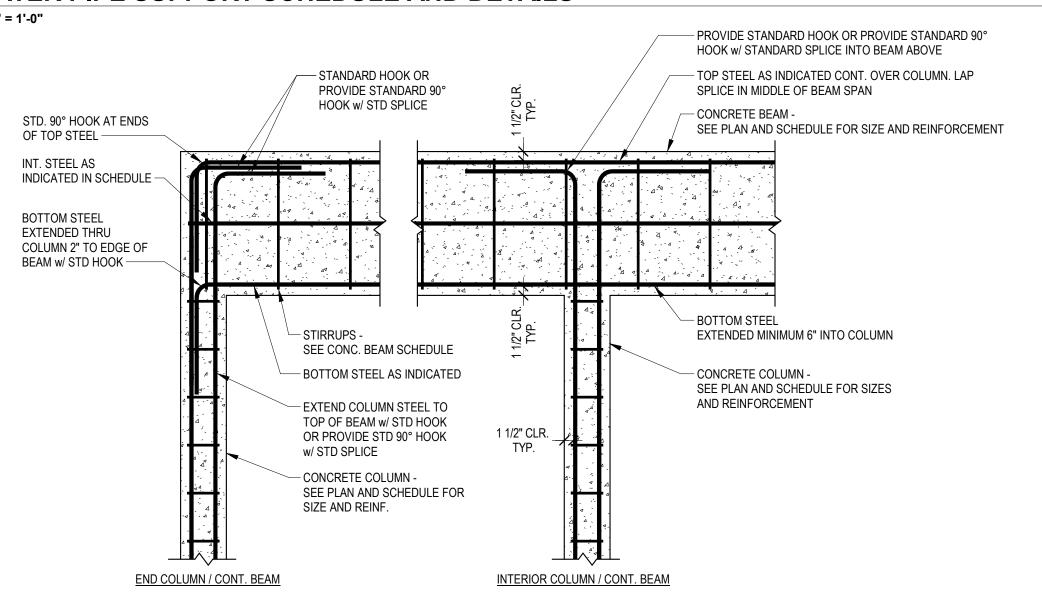
PIPES INSTALLED PERPENDICULAR TO ROOF JOIST FRAMING

PIPES INSTALLED PARALLEL TO ROOF JOIST FRAMING

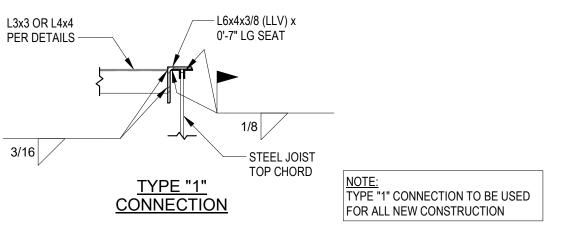


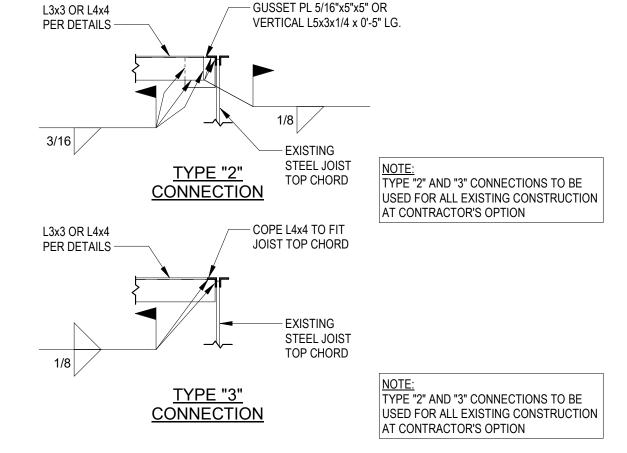


5 WATER PIPE SUPPORT SCHEDULE AND DETAILS



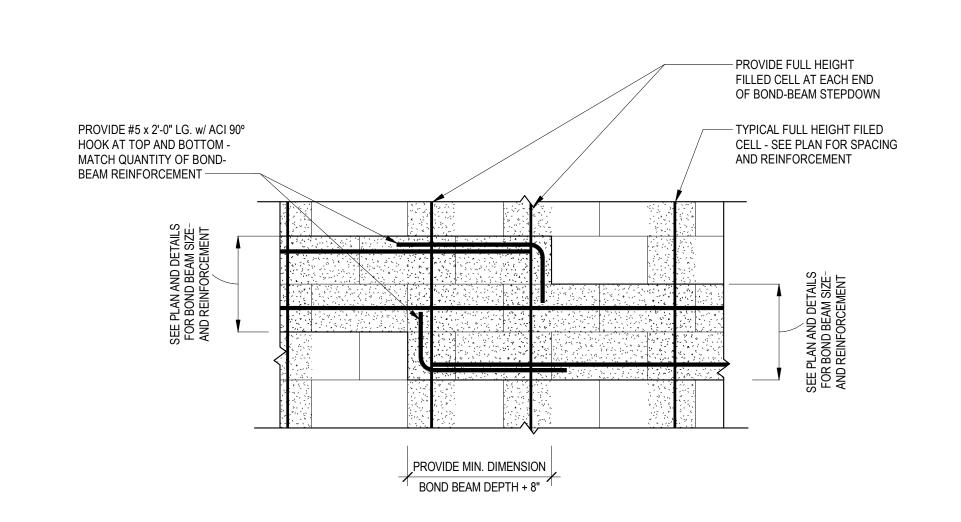
4 TYPICAL CONCRETE BEAM TO CONCRETE COLUMN REINFO. DETAIL S613 3/4" = 1'-0"





2 TYP SUPPORT ANGLE CONNECTION TO JOIST

∖S613 ∕



1 TYPICAL STEP IN MASONRY BOND BEAM

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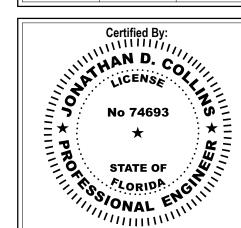
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Drawing Title: **FRAMING DETAILS &**

SECTIONS Revisions:

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