- A. GEOTECHNICAL INVESTIGATION REPORT 1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS a. REPORT TITLE: REPORT OF GEOTECHNICAL SERVICES – THREE RESIDENTIAL BUILDINGS THE WATERFORD, 601 UNIVERSE BOULEVARD, JUNO BEACH, FLORIDA 33408
- (REPORT No. 25-235) b. PREPARED BY: ALLTERRA ENGINEERING & TESTING, WEST PALM BEACH, FL c. DATED: SEPTEMBER 5, 2025
- THE GEOTECHNICAL INVESTIGATION REPORT IS AVAILABLE TO THE CONTRACTOR UPON REQUEST TO THE OWNER. THE INFORMATION HEREIN MAY BE USED BY THE CONTRACTOR FOR HIS GENERAL REFERENCE ONLY. THE GEOTECHNICAL INVESTIGATION REPORT RECOMMENDATIONS SHALL SUPERSEDE THE MINIMUM CRITERIA STATED IN THE STRUCTURAL GENERAL NOTES.
- B. SHALLOW FOUNDATIONS FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT. FOUNDATION SIZES AND REINFORCEMENT ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF 4,200 PSF
- PER THE GEOTECHNICAL INVESTIGATION REPORT. FOUNDATIONS SHALL BEAR A MINIMUM OF 2' - 0" BELOW ADJACENT EXTERIOR GRADE.
- FOUNDATIONS SHALL BEAR ON SOIL THAT HAS BEEN IMPROVED THROUGH VIBRO-FLOTATION PER THE
- GEOTECHNICAL REPORT. FOUNDATIONS WITH GROUND IMPROVEMENT SHALL BEAR ON RAMMED AGGREGATE PIERS PER THE GEOTECHNICAL INVESTIGATION REPORT. JG WILL COORDINATE FOUNDATION REACTIONS WITH THE GEOTECHNICAL ENGINEER OF RECORD FOR FINAL RAMMED AGGREGATE PIER DESIGN AND ZONING CONSIDERATIONS. FOUNDATIONS IN AREAS WITHOUT GROUND IMPROVEMENT SHALL BE PREPARED PER
- GEOTECHNICAL REQUIREMENTS. 6. PRIOR TO PLACEMENT OF CONCRETE, A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY SOILS CONFORMANCE TO THE RECOMMENDATIONS AND ASSUMPTIONS IN THE GEOTECHNICAL INVESTIGATION REPORT. ALL ADVERSE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ STRUCTURAL ENGINEER OF RECORD. 7. SOILS BELOW FOUNDATIONS NOT MEETING DESIGN BEARING PRESSURE SHALL BE REMEDIATED PER THE
- GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE FOUNDATIONS. CENTER ALL FOUNDATIONS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNLESS NOTED OTHERWISE.
- TOP OF FOUNDATION ELEVATIONS PROVIDED ON THE CONTRACT DRAWINGS ARE FOR PURPOSE OF THE CONTRACT AND SHALL BE ADJUSTED, AS REQUIRED, AT THE TIME OF EXCAVATION TO BEAR ON PROPERLY PREPARED SUPPORT SUBGRADE (PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS). EARTHWORK AND EXCAVATION 1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING, BUT NOT
- LIMITED TO: LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS
- EXCAVATION SHALL NOT OCCUR WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROTECTED AGAINST SETTLEMENT
- 3. THE EXTENT OF SUBGRADE PREPARATION SHALL EXTEND A MINIMUM OF 5'-0" BEYOND THE BUILDING PERIMETER. 4. THE CONTRACTOR SHALL PROVIDE A SUBGRADE BENEATH THE SLAB-ON-GROUND PER THE GEOTECHNICAL
- ENGINEER'S RECOMMENDATIONS. UNLESS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT, COMPACT FILL TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557. EACH LAYER SHALL NOT EXCEED 8" LOOSE THICKNESS. COMPACT PRIOR TO THE PLACEMENT OF THE NEXT LAYER. COMPACTION SHALL MEET ALL
- RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT 6. PLACEMENT OF FILL AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY A RETAINED TESTING AGENCY. PERFORM A MINIMUM OF ONE FIELD DENSITY TEST (ASTM D-1556 OR D-6938) FOR EVERY 2,500
- SQUARE FEET OF EACH LAYER. THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF THE CONSTRUCTION DEWATERING SYSTEMS REQUIRED FOR THE EXCAVATION. AT A MINIMUM, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM
- THE BUILDING SITE. 8. THE CONTRACTOR SHALL SUBMIT CONSTRUCTION DEWATERING PLAN TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO BEGINNING EXCAVATION. 9. THE CONTRACTOR SHALL INSTALL ALL NECESSARY DEWATERING SYSTEMS.
- D. RETAINING WALL RETAINING WALLS SHALL BE DESIGNED FOR THE FOLLOWING
- a. LATERAL EARTH PRESSURE AT REST: __ PSF PER FOOT OF DEPTH
- h ACTIVE FARTH PRESSURE PSF PFR FOOT OF DFPTH c. PASSIVE EARTH PRESSURE RESISTANCE: __ PSF PER FOOT OF DEPTH
- d. SOIL FRICTION FACTOR: RETAINING WALL DESIGN IS BASED ON DRAINED BACKFILL WITH NO BUILDUP OF WATER. THE CONTRACTOR SHALL PROVIDE A DRAINAGE SYSTEM IN ALL BACKFILL CONDITIONS (SEE CIVIL/ ARCHITECTURAL DRAWINGS FOR DRAINAGE SPECIFICATIONS).
- DO NOT BACKFILL AGAINST CANTILEVERED RETAINING WALLS UNTIL CONCRETE COMPRESSIVE STRENGTH, f'c, REACHES ITS 28 DAY DESIGN STRENGTH. DO NOT BACKFILL PRIOR TO WATERPROOFING AND INSPECTION.

GENERAL REQUIREMENTS

AMENDMENTS ISSUED FOR BID OR CONSTRUCTION.

INTO ONE OF THE FOLLOWING CATEGORIES:

THE CONTRACT DOCUMENTS.

INTEGRAL PART OF THE CONTRACT DOCUMENTS.

- A. THE GENERAL STRUCTURAL NOTES EMPLOY THE FOLLOWING DEFINITIONS AND ABBREVIATIONS: 1. CONTRACT DOCUMENTS – THE LATEST SET OF DRAWINGS, SPECIFICATIONS, AND RECORDED ADDENDA AND
- 2. LICENSED PROFESSIONAL (STRUCTURAL) ENGINEER AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND QUALIFIED TO PERFORM THE WORK REQUIRED. 3. STRUCTURAL ENGINEER OF RECORD – LICENSED PROFESSIONAL ENGINEER WHO IS IN RESPONSIBLE CHARGE FOR THE PREPARATION, SIGNING, DATING, SEALING, AND ISSUING OF STRUCTURAL ENGINEERING
- DOCUMENTS FOR ENGINEERING SERVICE OR CREATIVE WORK. DELEGATED ENGINEER – A LICENSED PROFESSIONAL ENGINEER WHO PROVIDES SERVICES OR CREATIVE WORK REGARDING A PORTION OF THE ENGINEERING PROJECT. THE DELEGATED ENGINEER IS THE ENGINEER OF RECORD FOR THAT PORTION OF THE ENGINEERING PROJECT. TYPICALLY, DELEGATED ENGINEERS FALL
- a. AN INDEPENDENT CONSULTANT b. AN EMPLOYEE OR OFFICER OF AN ENTITY SUPPLYING COMPONENTS TO A FABRICATOR OR CONTRACTOR c. AN EMPLOYEE OR OFFICER OF A FABRICATOR OR CONTRACTOR
- 5. DELEGATED ENGINEERING DOCUMENTS ENGINEERING DOCUMENTS THAT ARE PREPARED BY A DELEGATED
- 6. DESIGN TEAM DESIGN PROFESSIONALS INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER, MEP ENGINEER, AND ANY OTHER CONSULTANT THAT ISSUES CONTRACT DOCUMENTS.
- 7. CONTRACTOR GENERAL CONTRACTOR, CONSTRUCTION MANAGER, DESIGN BUILDER, OR ANY OTHER ENTITY CONTRACTED BY THE OWNER TO PERFORM THE WORK. 8. SHOP DRAWINGS - DRAWINGS DEPICTING INSTALLATION MEANS AND METHODS AND CATALOG INFORMATION ON STANDARD PRODUCTS. SHOP DRAWINGS SHALL BE PREPARED BASED ON ENGINEERING DIRECTION CONTAINED IN CONTRACT DOCUMENTS BY A CONTRACTOR, FABRICATOR, MANUFACTURER, OR LICENSED
- ESTABLISHED CHANNELS AT THE ONSET OF THE PROJECT, ARCHITECT, OWNER, AND CONTRACTOR SHALL ESTABLISH DESIRED LINES OF COMMUNICATION BETWEEN ALL PROJECT PARTIES. THESE AGREED UPON LINES OF COMMUNICATION ARE THE ESTABLISHED CHANNELS.

PROFESSIONAL ENGINEER, FOR INCORPORATION INTO THE PROJECT

- GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE DESIGN AND CONSTRUCTION OF THE ENTIRE PROJECT
- AND THUS ARE APPLICABLE TO EVERY SHEET WITHIN THIS SET. C. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION, OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OTHERWISE D. ISOMETRIC VIEWS ARE FOR VISUALIZATION PURPOSES ONLY AND DO NOT CONVEY ALL OF THE REQUIREMENTS OF
- SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE DRAWINGS AND ANY OTHER CONTRACT DOCUMENT OR APPLICABLE CODE OR STANDARD OF PRACTICE DURING BIDDING, THE PROVISION RESULTING IN THE GREATER COST APPLIES. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT DURING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE DESIGN TEAM, WHO WILL PROVIDE A WRITTEN RESPONSE IN RETURN. SPECIFICATIONS HAVE BEEN ISSUED ON THIS PROJECT BY THE STRUCTURAL ENGINEER OF RECORD AND ARE AN
- SEE SPECIFICATIONS FOR MATERIALS TESTING REQUIREMENTS G. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. THE CONTRACTOR HAS SOLE RESPONSIBILITY
- FOR THE QUALITY AND CORRECTNESS OF THE WORK. H. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO: ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CURBS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC. I. THE BUILDING HAS BEEN DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD TO RESIST THE CODE REQUIRED VERTICAL AND LATERAL FORCES IN ITS FULLY COMPLETED CONDITION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED BRACING, SHORING, AND OTHER CONSTRUCTION SUPPORTS NECESSARY TO ENSURE THE BUILDING'S STABILITY AND SAFETY THROUGHOUT THE DURATION OF CONSTRUCTION. FURTHER, THE CONTRACTOR SHALL NOT OVERLOAD THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PROVIDE THE ANALYSIS AND DESIGN NECESSARY TO DETERMINE POTENTIALLY OVERLOADED, UNSTABLE, OR HAZARDOUS CONDITIONS THAT MAY OCCUR AT ANY STAGE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. K. THE CONTRACTOR SHALL NOT EMPLOY CONSTRUCTION MEANS OR METHODS THAT MAY DAMAGE UTILITIES, ADJACENT BUILDINGS, OR PROPERTY. DOCUMENTATION OF ADJACENT CONDITIONS PRIOR TO CONSTRUCTION IS
- RECOMMENDED. FURTHER, THE CONTRACTOR SHALL EITHER ADEQUATELY CONFINE THE SITE OR PROTECT ADJACENT PROPERTY FROM DAMAGE. L. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROJECT SAFETY AND OSHA REQUIREMENTS. SHOULD THE STRUCTURAL ENGINEER OF RECORD NOTIFY THE CONTRACTOR OF A POTENTIALLY UNSAFE CONDITION. IT IS SOLELY AS A COURTESY FROM ONE PROFESSIONAL TO ANOTHER. IT SHOULD NOT BE INTERPRETED AS THE STRUCTURAL ENGINEER OF RECORD ASSUMING ANY RESPONSIBILITY FOR PROJECT SAFETY.
- M. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFE SPAN AND ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE BUILDING OWNER. THIS PROGRAM SHALL INCLUDE, BUT NOT BE LIMITED TO: PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO A SALINE OR OTHER HARSH CHEMICAL ENVIRONMENT.
- N. THE USE OF DE-ICING CHEMICALS ON ANY EXPOSED STRUCTURAL ELEMENT IS DISCOURAGED AND WILL ACCELERATE DETERIORATION OF STRUCTURAL ELEMENTS
- O. THE BUILDING OWNER SHALL NOT ALTER OR MODIFY ANY STRUCTURAL ELEMENT WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER. FURTHER, BUILDING OWNER SHALL NOT RENOVATE, REPURPOSE, ADD-ON TO, OR OTHERWISE MODIFY THE EXISTING STRUCTURAL SYSTEMS WITHOUT CONSULTING A LICENSED PROFESSIONAL ENGINEER.
- P. CONTRACT DRAWINGS SHOW MAJOR OPENINGS IN FLOORS AND WALLS AND DO NOT NECESSARILY SHOW ALL OPENINGS REQUIRED. THE CONTRACTOR SHALL COORDINATE ALL OPENING SIZES AND LOCATIONS BETWEEN ALL DISCIPLINES AND TRADES. ADDITIONAL OPENINGS, BLOCKOUTS, AND SLEEVES MAY BE REQUIRED AND SHALL BE CONSTRUCTED USING THE TYPICAL DETAILS AND/OR REQUIREMENTS WITHIN THE CONTRACT DOCUMENTS. OPENINGS REQUIRED, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL COORDINATE PIPING AND CONDUIT EMBEDDED IN OR ATTACHED TO SLABS, SLABS-ON-DECK, BEAMS, AND COLUMNS. ANY REQUIRED MODIFICATIONS TO STRUCTURAL MEMBERS OR THEIR REINFORCEMENT AS A RESULT OF EMBEDMENT OR ATTACHMENT SHALL BE SUBMITTED TO THE DESIGN TEAM FOR THEIR REVIEW. SEE GENERAL STRUCTURAL NOTES SECTION "DESIGN CRITERIA" FOR LIMITATIONS OF MEP LOADING ON STRUCTURAL SYSTEMS.
- R. THE STRUCTURAL ENGINEER OF RECORD'S ROLE DURING CONSTRUCTION 1. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT ASSUME CONTROL OF, OR RESPONSIBILITY FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, PROJECT SAFETY, THE ACTS AND OMISSIONS OF THE CONTRACTOR, OR THEIR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. STRUCTURAL ENGINEER OF RECORD SHALL NOT HAVE AUTHORITY TO STOP THE WORK OR AUTHORIZE CHANGES TO ANY CONTRACT SUM. 3. PERIODIC SITE VISITS BY REPRESENTATIVES OF THE STRUCTURAL ENGINEER OF RECORD ARE SOLELY FOR THE PURPOSE OF BECOMING GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF THE WORK AND DETERMINING, IN GENERAL, IF THE WORK OBSERVED IS BEING PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR

CONTINUOUS AND THAT OBSERVATIONS ARE QUALITATIVE, NOT QUANTITATIVE. THIS LIMITED INFORMATION

- WILL BE USED TO ADVISE THE OWNER/CONTRACTOR/ARCHITECT OF POTENTIAL DEFICIENCIES. S. CLARIFICATION OF POSITION OF STRUCTURALLY FRAMING ELEMENTS USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS, DO NOT SCALE ANY DIMENSIONS.
- IF NOT INDICATED ON DRAWINGS, ASSUME EQUAL SPACING BETWEEN ESTABLISHED DIMENSIONS. 3. CENTER LINES OF COLUMNS AND FOUNDATIONS SHALL COINCIDE WITH GRID LINE INTERSECTION, UNLESS NOTED OTHERWISE.
- 4. CENTER LINES OF FOOTINGS, GRADE BEAMS, AND WALLS SHALL COINCIDE WITH CENTER LINES OF FOUNDATIONS, UNLESS NOTED OTHERWISE 5. CENTER LINES OF FRAMING MEMBERS SHALL COINCIDE WITH COLUMN CENTER LINES, UNLESS NOTED
- 6. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS, OR BEAMS, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL, CIVIL, MEP, AND VERTICAL TRANSPORTATION CONTRACT DOCUMENTS FOR ADDITIONAL
- INFORMATION RELATING TO THE COORDINATION OF STRUCTURAL COMPONENTS INCLUDING, BUT NOT LIMITED TO: CIVIL a. SITING OF BUILDING GRID LINES WITH RESPECT TO CITY BENCHMARKS
- b. SITE PREPARATION c. BACKFILLING MATERIALS AND REQUIREMENTS INCLUDING DRAINAGE ADJACENT TO RETAINING WALLS d. SITE ELEMENTS OUTSIDE OF BUILDING ENVELOPE
- e. NEW AND EXISTING SITE UTILITIES ARCHITECTURAL a. PLAN DIMENSIONS AND PROJECT DATUM
- b. SLAB EDGE DIMENSIONS AND FINISH ELEVATIONS
- c. WATERPROOFING AND DAMP PROOFING DETAILS d. SLAB SLOPES, STEPS AND DEPRESSIONS, RAMPS, TRENCHES e. EMBEDMENTS, INSERTS, BLOCKOUTS, ETC.
- f. CONCRETE FINISHES AND TOPPING SLABS g. CONCRETE CURBS AND HOUSEKEEPING PADS . INTERIOR NON-STRUCTURAL MASONRY PARTITIONS
- LIFE SAFETY, FIRE RATING CAST-IN-PLACE STAIRS AND SUPPORTS OPERABLE PARTITIONS

MFP

- a. PIPE AND DUCT SIZES FOR OPENING AND SLEEVE COORDINATION b. FLOOR DRAINS
- c. UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS d. EQUIPMENT CURBS
- e. CONDUITS AND EMBEDMENTS IN WALLS AND SLABS 4. VERTICAL TRANSPORTATION

INSPECTION PLAN FOR SPECIFIC INSPECTION REQUIREMENTS.

a. INSERTS, HANGERS, TRENCHES, PITS, CONDUITS IN WALLS AND SLAB THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING PER CHAPTER 553.71 OF THE FLORIDA STATUTES. AS SUCH, SPECIAL INSPECTIONS SHALL BE REQUIRED PER CHAPTER 553.79 OF THE FLORIDA STATUTES BY PERSONS DULY AUTHORIZED TO PERFORM THEM BY CHAPTER 61G15-35.003 OF THE FLORIDA ADMINISTRATIVE CODE. SEE SPECIAL

ELECTRONIC DATA/REPRODUCTION

- A. ALL INFORMATION CONTAINED IN THE ELECTRONIC FILES OF THE CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE OF THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL NOT BE USED FOR OTHER PROJECTS, ADDITIONS TO THE PROJECT, OR THE COMPLETION OF THE PROJECT BY OTHERS. ELECTRONIC FILES OF THE STRUCTURAL DOCUMENTS REMAIN THE PROPERTY OF JEZERINAC GROUP AND IN NO CASE SHALL THEIR
- TRANSFER BE CONSIDERED A SALE. B. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREIN. THE USE OF ELECTRONIC FILES DOES NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY FOR PROPER CHECKING
- AND COORDINATION OF DIMENSIONS, DETAILS, SIZE, AND QUANTITIES. C. DIMENSIONS AND ELEMENT SIZES AND LOCATIONS IN THE ELECTRONIC FILES MAY NOT BE PRECISE AND, IN SOME CASES, HAVE BEEN INTENTIONALLY ALTERED FOR PRESENTATION PURPOSES. DO NOT SCALE DIMENSIONS
- **ELECTRONICALLY OR OTHERWISE** D. WHEN USED FOR THE PREPARATION OF SHOP DRAWINGS, ALL INFORMATION NOT APPLICABLE TO THE SUBCONTRACT SHALL BE REMOVED FROM THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: SHEET NUMBERS, SECTION MARKS, TITLE BLOCKS, AND REFERENCES TO THE CONTRACT DOCUMENTS.

<u>SUBMITTALS</u>

A. REFER TO DIVISION 01 OF SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND REQUIREMENTS. REFER TO THE

AND COMMENT BY THE STRUCTURAL ENGINEER OF RECORD, A SCHEDULE WHICH DETAILS THE ESTIMATED

- APPLICABLE SPECIFICATION SECTIONS FOR TECHNICAL CONTENT. B. SUBMIT SPECIFIC COMPONENTS SUCH AS COLUMNS, FOUNDATIONS, ETC, IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER. [TEN] WORKING DAYS PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT, FOR REVIEW
- QUANTITY OF SHOP DRAWINGS AND THE DATE THE SHOP DRAWINGS WILL BE RECEIVED BY THE STRUCTURAL ENGINEER OF RECORD. THE STRUCTURAL ENGINEER OF RECORD SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD. IN ACCORDANCE WITH THE SHOP DRAWING SCHEDULE, THE STRUCTURAL ENGINEER OF RECORD WILL RETURN THE SHOP DRAWING ITEMS WITHIN TEN WORKING DAYS AFTER HAVING RECEIVED THE REPRODUCIBLE SHOP DRAWING.
- D. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING IS ADDRESSED:
- THE SUBMITTAL IS REQUESTED. THE SUBMITTAL IS BASED ON THE LATEST DESIGN. THE SUBMITTAL IS CLEARLY CLOUDED FOR ALL THE DIFFERENCES FROM THE CONTRACT DOCUMENTS ON THE
- FIRST SUBMITTAL. 4. THE SUBMITTAL IS CLEARLY CLOUDED FOR ALL CHANGES AND ADDITION FROM PREVIOUS SUBMITTAL.
- 5. THE ARCHITECT'S AND STRUCTURAL ENGINEER OF RECORD'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED. 6. THE WORK IS COORDINATED AMONGST ALL CONSTRUCTION TRADES.
- THE SUBMITTAL IS COMPLETE. 8. THE SUBMITTAL SHALL INCLUDE A STAMP INDICATING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER, AND SPECIFICATION SECTION NUMBER.
- E. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH
- THE DESIGN INTENT. F. THE STRUCTURAL ENGINEER OF RECORD SHALL RETURN, WITHOUT COMMENT, SUBMITTALS WHICH THE
- CONTRACTOR HAS NOT STAMPED OR WHICH DO NOT MEET THE ABOVE REQUIREMENTS G. FOR THE COMPONENTS DESIGNED BY A DELEGATED ENGINEER: PROVIDE SHOP DRAWINGS, DESIGN
- CALCULATIONS, AND A COVER LETTER SIGNED AND SEALED BY THE DELEGATED ENGINEER. LETTER SHALL INDICATE THAT THE SHOP DRAWINGS ARE IN CONFORMANCE WITH THE DELEGATED ENGINEER'S CALCULATIONS. REFER TO APPLICABLE SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS. H. DEFERRED SUBMITTALS ARE MANUFACTURER OR CONTRACTOR DESIGNED COMPONENTS PER THE CONTRACT DOCUMENTS. THESE ELEMENTS OF THE DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN

PERMITTED UNDER THE BASE BUILDING APPLICATION. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE

SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD, WHO SHALL REVIEW THEM FOR GENERAL

CONFORMANCE TO THE DESIGN OF THE BUILDING. THE CONTRACTOR SHALL SUBMIT THESE REVIEWED DEFERRED SUBMITTAL DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN TEAM HAS REVIEWED AND THE BUILDING OFFICIAL HAS APPROVED. SEE BELOW FOR THE LIST OF DEFERRED SUBMITTALS. THE FOLLOWING SUBMITTALS ARE REQUIRED TO BE SUBMITTED FOR STRUCTURAL ENGINEER OF RECORD REVIEW

031000	CONCRETE FORMWORK	(SS, CALC)
032000	CONCRETE REINFORCEMENT LAYOUT	(S)
033000	CONCRETE PRODUCT DATA	(S)
033000	DIMENSION PLANS AND SLEEVE LAYOUT DRAWINGS	(S)
033000	CONCRETE MIX DESIGNS	(CALC, TA)
033000	CONCRETE CONSTRUCTION JOINT LAYOUT	(S)
033000	SLAB-ON-GROUND SAWCUT CONTROL JOINT LAYOUT DRAWINGS	(S)
033816	POST-TENSIONING PRODUCT DATA	(S)
033816	POST-TENSIONING TENDON LAYOUT & INSTALLATION DRAWINGS	(DF, SS)
033816	POST TENSIONING TENDON FRICTION LOSS CALC	(DF, CALC)
033816	STRESSING RECORDS	(S)
042200	MASONRY PRODUCT DATA	(S)
042200	MASONRY REINFORCEMENT LAYOUT	(S)
051200	STRUCTURAL STEEL	(S)
051200	STRUCTURAL STEEL CONNECTIONS	(DF, S, CALC)
053100	STEEL DECK	(S)
	SHORING AND RESHORING	(DF, SS, CALC)
	HANDRAIL, GUARDRAIL, RAILING	(SS, CALC, REC)
054400	PRE-ENGINEERED CFS TRUSS SHOP DRAWINGS	(DF, S)
054400	PRE-ENGINEERED CFS TRUSS DELEGATED DESIGN SUBMITTAL	(DF, SS)
142000	ELEVATOR	(DF, SS, CALC, RE
312319	DEWATERING	(GEO, REC)

SHOP DRAWING REQUIRED DEFERRED SUBMITTAL DF =

AS OUTLINED IN THE SPECIFICATIONS:

SIGNED AND SEALED SHOP DRAWINGS PREPARED BY A LICENSED DELEGATED ENGINEER IN THE SS = STATE IN WHICH THE PROJECT IS LOCATED. CALC = SUPPORTING CALCULATIONS REQUIRED, SIGNED AND SEALED BY A LICENSED DELEGATED ENGINEER IN

AMERICAN IRON AND STEEL INSTITUTE: NORTH AMERICAN

SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL

AMERICAN SOCIETY FOR TESTING AND MATERIALS

- THE STATE IN WHICH THE PROJECT IS LOCATED. REC = ITEMS SUBMITTED FOR RECORD ONLY AND WILL NOT HAVE STRUCTURAL ENGINEER OF RECORD SHOP DRAWING STAMP AFFIXED.
- GEO = ITEMS SUBMITTED TO CONSTRUCTION GEOTECHNICAL ENGINEER FOR THEIR REVIEW. TA = ITEMS SUBMITTED TO OWNER'S TESTING AGENCY FOR THEIR REVIEW.

GOVERNING CODES & STANDARDS

BUILDING CODE:	FBC 2023	FLORIDA BUILDING CODE, BUILDING
STANDARDS:	ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
	ACI 301	AMERICAN CONCRETE INSTITUTE: SPECIFICATIONS FOR CONCRETE CONSTRUCTION
	ACI 318	AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
	TMS 402	THE MASONRY SOCIETY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
	AISC 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
	AISC 341	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
	AWS D1.1	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - STEEL
	AWS D1.3	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - SHEET STEEL
	AWS D1.4	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - REINFORCING STEEL

STRUCTURAL MEMBERS

STIFFENER STIFF GENERAL CONTRACTOR STR STRUCTURE OR STRUCTURAL SYMMETRICAL TENSION TOP AND BOTTOM HEADED CONCRETE ANCHORS TONGUE & GROOVE TOP OF HOLLOW STRUCTURAL SECTION TEMPERATURE OR TEMPORARY TYPICAL INSIDE DIAMETER UNLESS NOTED OTHERWISE SHEAR 12/01/2025 VERT VERTICAL INTERNATION CODE COUNCIL -VERIFY IN FIELD EVALUATION SERVICE WITH WITHOUT W/O KIPS (1,000 POUNDS) WORK POINT KIP PER LINEAR FOOT WWR WELDED WIRE REINFORCEMENT KIP PER SQUARE FOOT

- STRUCTURAL THRESHOLD INSPECTIONS A. PER CHAPTER 553.71 OF THE FLORIDA STATUTES, THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING.
- B. SPECIAL INSPECTORS OF THRESHOLD BUILDINGS (THRESHOLD INPECTORS) SHALL MEET THE REQUIREMENTS OF RULE 61G15-35.003 OF THE FLORIDA ADMINISTRATIVE CODE. C. PER CHAPTER 553.79 OF THE FLORIDA STATUTES, THE ENFORCING AGENCY SHALL REQUIRE A THRESHOLD INSPECTOR TO PERFORM STRUCTURAL INSPECTIONS ON A THRESHOLD BUILDING PERSUANT TO A STRUCTURAL
- INSPECTION PLAN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD. D. THRESHOLD INSPECTOR SHALL BE A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA WHO IS CERTIFIED UNDER CHAPTER 471.015 OF THE FLORIDA STATUTES, TO CONDUCT INSPECTIONS OF A THRESHOLD BUILDING. FURTHER, THE THRESHOLD INSPECTOR MUST BE ON THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS LIST OF PERSONS QUALIFIED TO BE THRESHOLD INSPECTORS.
- E. THE STRUCTURAL INSPECTION PLAN MUST BE SUBMITTED TO AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT FOR THE CONSTRUCTION OF A THRESHOLD BUILDING. F. THE FEE OWNER OF A THRESHOLD BUILDING SHALL SELECT AND PAY ALL COSTS OF EMPLOYING A THRESHOLD INSPECTOR, BUT THE THRESHOLD INSPECTOR SHALL BE RESPONSIBLE TO THE ENFORCEMENT AGENCY.
- G. THRESHOLD INSPECTIONS RELATED TO TEMPORARY CONDITIONS SUCH AS SHORING, RE-SHORING, AND TEMPORARY BRACING ARE REQUIRED TO BE PERFORMED BY THE CONTRACTOR'S DELEGATED ENGINEER DELEGATED ENGINEER (NOT SPECIAL INSPECTOR) IS RESPONSIBLE FOR THE SUPERVISION, INSPECTION AND

	CERTIFICATION OF SUCH TEMPORARY SYSTEMS.
Н.	SEE STRUCTURAL INSPECTION PLAN FOR FURTHER INFORMATION.

ABBREVIATIONS

ABOVE FINISHED FLOOR

ARCHITECT OR ARCHITECTURAL

ALLOWABLE STRESS DESIGN

ADDITIONAL

ADJACENT

ALTERNATE

APPROXIMATE

BOTTOM OF

BUILDING

BLOCKING

BEARING

BOTTOM

BETWEEN

COMPRESSION

CAST-IN-PLACE

CONTROL JOINT

CENTER LINE

COLUMN

CONCRETE

CONNECTION(S)

CONTINUOUS

COORDINATE

DEGREE(S)

DIAMETER

DIAGONAL

DIMENSION(S)

DEAD LOAD

DRAWING(S)

EACH FACE

ELEVATION

ELEVATOR

EQUIPMENT

EACH WAY

EXPANSION

EXTERIOR

FACE-TO-FACE

FLOOR DRAIN

FINISH FLOOR

FOUNDATION

GAGE, GAUGE

GALVANIZED

GRADE BEAM

FAR SIDE

FOOTING

GIRDER

GENERAL

GYPSUM

HORIZONTAL

INSIDE FACE

INFORMATION

INTERIOR

JOIST(S)

KIPS PER SQUARE INCH

INCH

FEET

EXISTING

EXPANSION JOINT

EDGE-OF-SLAB

DRILL & EPOXY

CONSTRUCTION

COLD-FORMED STEEL

CLEAR OR CLEARANCE

CONCRETE MASONRY UNIT

REINFORCING BAR DIAMETER

DEFORMED BAR ANCHOR

DEMAND CRITICAL WELD

COMPLETE JOINT PENETRATION

BASE PLATE

BACK-TO-BACK

ADDL

ADJ

AFF

ASD

B/B

BLDG

BLKG

BTWN

CJP

CLR

CMU

COL

CONC

CONN(S)

CONST

CONT

DCW

DIM(S)

DWG(S)

ELEV

EOS

EQUIP

EXIST

EW

GDR

GEN

HCA

HORIZ

INFO

JST(S)

KLF

KSF

COORD

APPROX

<u>ABBREVIATIONS</u>

LONG LEG HORIZONTAL

LONG SIDE HORIZONTAL

LIGHT WEIGHT CONCRETE

MOMENT CONNECTION(S)

MECHANICAL, ELECTRICAL, PLUMBING,

LONG SIDE VERTICAL

LAP TENSION SPLICE

LIGHT WEIGHT

MAXIMUM

MECHANICAL

MIDDLE

MINIMUM

NEAR SIDE

NOT TO SCALE

ON CENTER

OPENING(S)

OPPOSITE

PLATE

PRECAST

REQUIRE(D)

REVISION

ROOF TOP UNIT

SCHEDULE(D)

OUTSIDE FACE

OPPOSITE HAND

OUTSTANDING LEG

PERPENDICULAR

PRE-FABRICATED

POST-TENSIONED

POWDER ACTUATED FASTENER

PREFORMED JOINT FILLER

POUNDS PER LINEAL FOOT

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

REINFORCE(D) (ING) OR (MENT)

SUPERIMPOSED DEAD LOAD

SQUARE FOOT (FEET)

SLAB-ON-GROUND

SPECIFICATION(S)

STAINLESS STEEL

STANDARD

SPACE

STRUCTURAL ENGINEER OF RECORD

SEISMIC LOAD RESISTING SYSTEM

PARTIAL JOINT PENETRATION

OUTSIDE DIAMETER

FIRE PROTECTION

MANUFACTURER

MISCELLANEOUS

NOT IN CONTRACT

NOT SHOWN FOR CLARITY

NORMAL WEIGHT CONCRETE

LOAD RESISTANCE FACTORED DESIGN

LONG LEG VERTICAL

LONGITUDINAL

LENGTH

POUND(S)

LIVE LOAD

LB(S)

LLV

LONG

LRFD

LSH

LTS

LWC

MC

MECH

MEP

MID

MIN

MISC

NSFC

NTS

OPNG(S)

OPP

OSL

PERP

PCST

PSF

REINF

REV

RTU

SCHED

SDL

SER

SLRS

SOG

STD

SPEC(S)

REQ(D)

PSI

PREFAB

PJF

PJP

LW

STRUCTURAL DRAWING LIST						
SHEET NUMBER	SHEET NAME					
S-001	GENERAL NOTES					
S-002	LOADING CRITERIA					
S-003	CONCRETE GENERAL NOTES					
S-004	STEEL GENERAL NOTES					
S-010	SPECIAL INSPECTIONS PLAN					
S-121	FOUNDATION PLAN					
S-122	SECOND FLOOR FRAMING PLAN					
S-122-PT	SECOND FLOOR PT PLAN					
S-122-R	SECOND FLOOR REINFORCING PLAN					
S-123	THIRD FLOOR FRAMING PLAN					
S-123-PT	THIRD FLOOR PT PLAN					
S-123-R	THIRD FLOOR REINFORCING PLAN					
S-124	ROOF FRAMING PLAN					
S-124-PT	ROOF PT PLAN					
S-124-R	ROOF REINFORCING PLAN					
S-300	TYPICAL FOUNDATION DETAILS					
S-310	TYPICAL SLAB-ON-GROUND DETAILS					
S-320	TYPICAL CONCRETE SHEAR WALLS DETAILS					
S-321	CONCRETE SHEAR WALL ELEVATIONS					
S-322	CONCRETE SHEAR WALL ELEVATIONS					
S-330	TYPICAL PT TENDON DETAILS					
S-331	TYPICAL PT REINFORCEMENT DETAILS					
S-332	TYPICAL PT SHEAR STUD RAILS DETAILS					
S-340	TYPICAL CONCRETE COLUMN DETAILS					
S-350	CONCRETE STAIR DETAILS					
S-360	TYPICAL CONCRETE FRAMING DETAILS					
S-370	TYPICAL RETAINING WALL DETAILS					
S-400	TYPICAL MASONRY DETAILS					
S-500	STEEL FRAMING DETAILS					

ROOF FRAMING DETAILS

CTDUCTUDAL DDAWING LICT



1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004 TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE

> MATERIAL SPECIFICATIONS. 12/1/2025 6:01:50 PM

12/01/25 CONSTRUCTION DOCUMENTS 08/22/25 DESIGN DEVELOPMENT NO. DATE DESCRIPTION



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GENERAL

NOTES

Date:

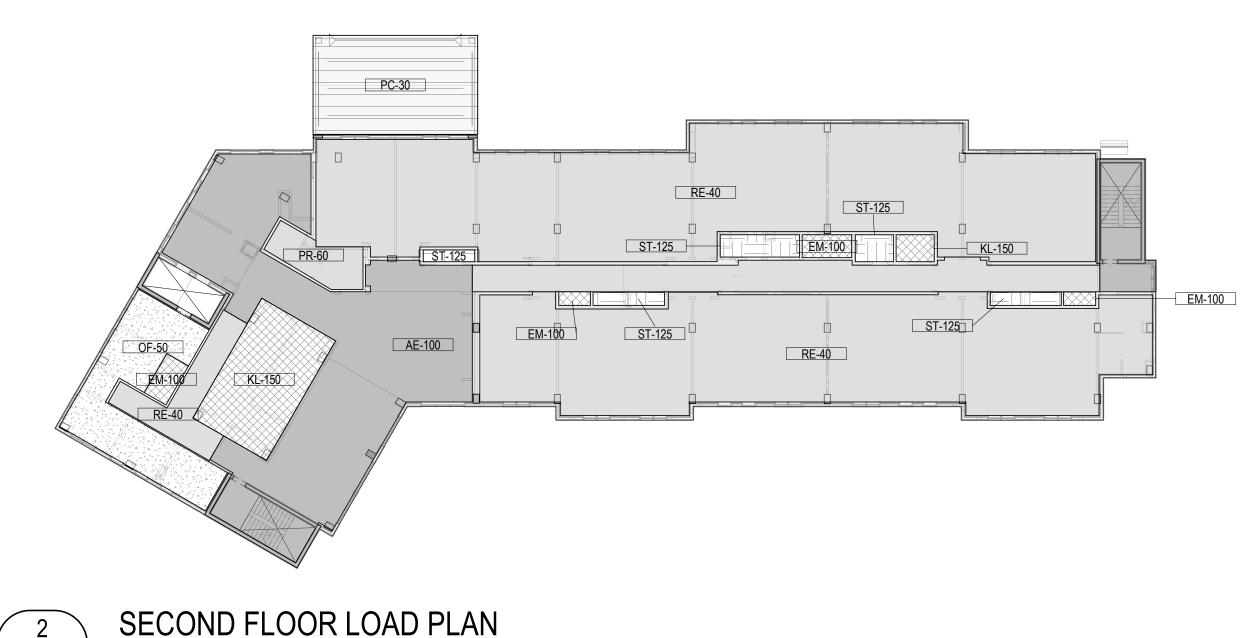
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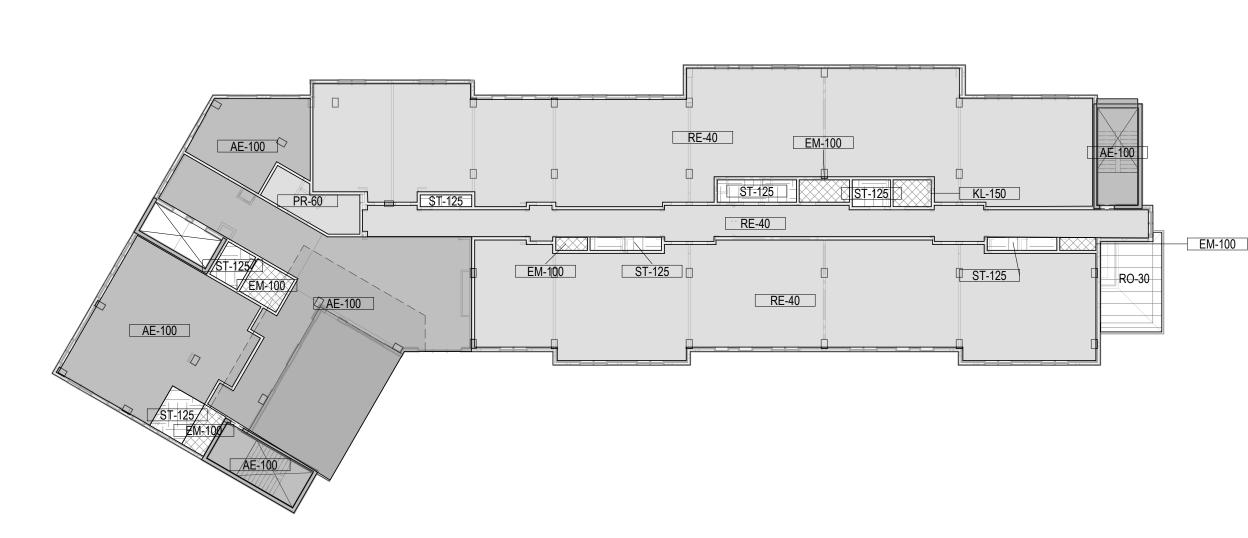
S-001



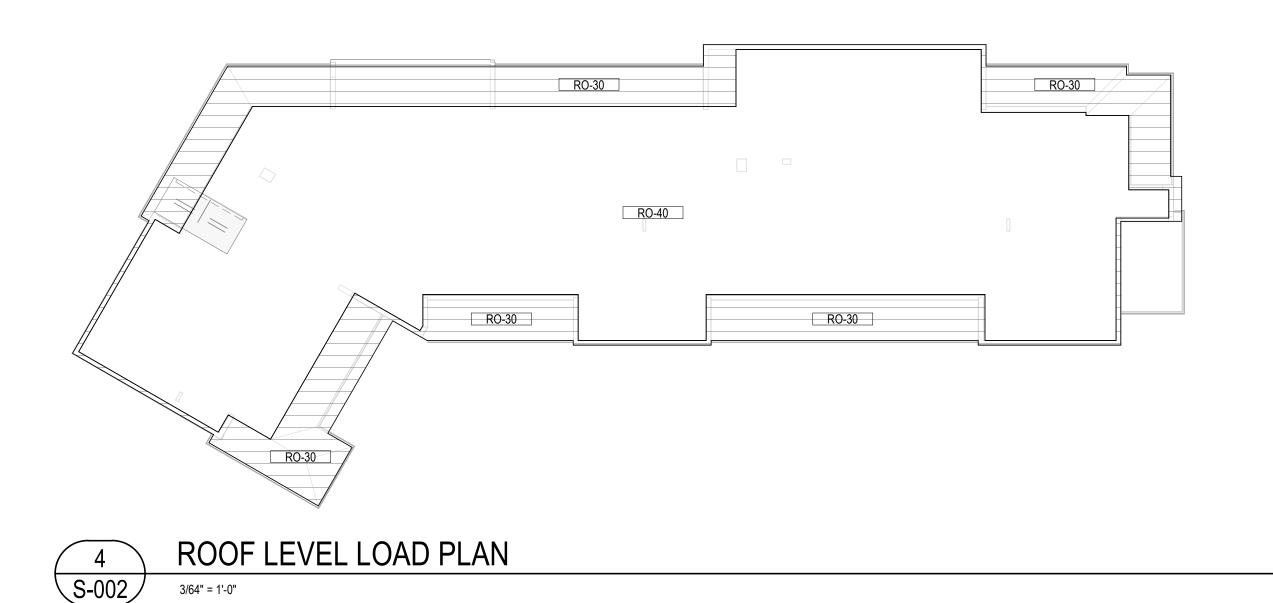
S-002

3/64" = 1'-0"









DESIGN CRITERIA

- A. STRUCTURE LOCATION: LONGITUDE: -80.059 LATITUDE: 26.85
- B. LOADING: 1. DEAD & LIVE LOADS: SEE LOAD PLANS RAIN LOAD:

ULTIMATE DESIGN WIND SPEED, Vult:

DESIGN RAINFALL: 5"/HOUR (100-YEAR, 1-HOUR RAINFALL) RAINWATER AT LOWEST POINT OF ROOF SHALL: NOT EXCEED 6" DURING DESIGN RAINFALL DESIGN RAIN LOAD, R: WIND LOAD:

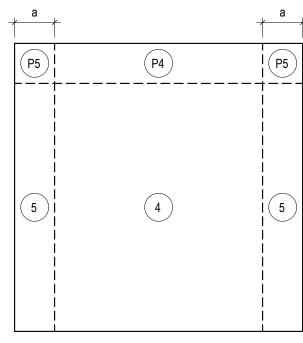
170 MPH

- 132 MPH NOMINAL DESIGN WIND SPEED, Vasd: RISK CATEGORY: EXPOSURE CATEGORY: ENCLOSURE CLASSIFICATION: **ENCLOSED** INTERNAL PRESSURE COEFFICIENT: +/- 0.18
- COMPONENTS & CLADDING DESIGN PRESSURES: SEE WIND PRESSURE DIAGRAMS SEISMIC LOAD: RISK CATEGORY:
- SEISMIC IMPORTANCE FACTOR, Ie: 1.0 SITE CLASS: MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S_s: 0.055 g MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S₁: 0.025 g
- SPECTRAL RESPONSE ACCELERATION PARAMETER, SDS: SPECTRAL RESPONSE ACCELERATION PARAMETER, SD1: SEISMIC DESIGN CATEGORY: SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS REDUNDANCY FACTOR, ρ:
- OVERSTRENGTH FACTOR, Ω_0 : RESPONSE MODIFICATION FACTOR, R: 4 SEISMIC RESPONSE COEFFICIENT, Cs: 0.015 EFFECTIVE SEISMIC WEIGHT, W: 6750 KIPS ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ELF)
- DESIGN BASE SHEAR: 255 KIPS C. HANDRAIL AND GUARDRAIL LOADS: CONCENTRATED AND DISTRIBUTED LOADS ARE TO BE APPLIED AT THE HANDRAIL OR TOP RAIL IN ANY DIRECTION. CONCENTRATED AND DISTRIBUTED LOADS ARE NOT TO BE APPLIED CONCURRENTLY.
- CONCENTRATED LOAD 200 LB DISTRIBUTED LOAD D. FUTURE EXPANSION: NO PROVISIONS HAVE BEEN MADE FOR FUTURE VERTICAL OR HORIZONTAL EXPANSION OF THE STRUCTURE. E. SERVICEABILITY:
- 1. DEFLECTION LIMITS: TOTAL LOAD DEFLECTION ONLY APPLIES TO THE DEFLECTION DUE TO THE CREEP COMPONENT OF LONG-TERM DEAD LOAD DEFLECTION PLUS THE SHORT-TERM DEFLECTION. LONG-TERM DEFLECTION OF WOOD STRUCTURAL MEMBERS SHALL BE CALCULATED IN ACCORDANCE WITH THE AWC NDS. IT IS PERMITTED TO ESTIMATE THE CREEP-COMPONENT OF THE LONG-TERM DEFLECTION AS THE IMMEDIATE DEAD LOAD DEFLECTION. a. ROOF MEMBERS
- TOTAL LOAD DEFLECTION: TRANSITORY LOAD DEFLECTION: L/360 b. FLOOR MEMBERS TOTAL LOAD DEFLECTION: LIVE LOAD DEFLECTION:
- c. EXTERIOR WALLS & CLADDING WIND LOAD DEFLECTION: d. INTERIOR PARTITIONS LIVE LOAD DEFLECTION: DRIFT LIMITS a. INTERSTORY DRIFT: H/400

b. TOTAL STRUCTURE DRIFT:

5 \4/4			C&C Ex	ternal P	ressure	Loads -	Main Ro	oof (psf)			
EWA	Zone										
(ft²)	1	2	3	4	5	P4	P5	ROH 1	ROH 2	ROH 3	
10	59.7	59.7	59.7	59.7	80.1	228.0	228.0	154.7	154.7	154.7	
	-107.2	-147.9	-147.9	-147.9	-107.2			-175.1	-215.8	-215.8	
20	51.6	51.6	51.6	51.6	76.5	204.0	204.0	139.3	139.3	139.3	
	-95.0	-127.5	-127.5	-127.5	-83.3			-159.2	-191.8	-191.8	
50	40.7	40.7	40.7	71.7	71.7	172.2	172.2	119.0	119.0	119.0	
	-78.8	-100.5	-100.5	-78.5	-90.5			-138.3	-160.0	-160.0	
100	32.6	32.6	32.6	68.1	68.1	148.2	151.4	103.6	103.6	103.6	
	-66.5	-80.1	-80.1	-74.9	-83.3			-122.4	-136.0	-136.0	
200	32.6	32.6	32.6	32.6	64.5	144.6	144.6	96.4	96.4	96.4	
	-66.5	-80.1	-80.1	-80.1	-76.0			-118.8	-132.4	-132.4	
500	32.6	32.6	32.6	59.7	59.7	139.8	139.8	86.9	86.9	86.9	
	-66.5	-80.1	-80.1	-66.5	-66.5			-114.0	-127.6	-127.6	

H/500



C&C S-002

NOTES:

1. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN

NEXT LOWEST TABULATED EFFECTIVE AREA.

TO MATCH ROOF a-ZONES.

NEGATIVE FORCES.

OF THE PARAPET.

AND SCREEN WALLS.

BUILDING OR COMPONENT FACE.

TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.

HORIZONTAL PLANE OF THE ROOF AND SHALL BE DESIGNED FOR:

AND ITS CONNECTION ON OUTSIDE FACE.

LIMITED TO THE STUD FRAMING OF THE OVERHANG.

CONNECTION ON ROOF SIDE FACE.

CONNECTION ON ROOF SIDE FACE.

LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE

2. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN.

3. a = 6'-8". SEE ROOF PLAN MAP BELOW FOR LOCATION OF a-ZONES. WALL a-ZONE LOCATIONS

4. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR

VALUES MAY BE MULTIPLED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER

COMPONENT FACE, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM

POSITIVE AND NEGATIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING

PARAPET AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING

5. EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND

6. PARAPET COMPONENTS AND CLADDING ARE THOSE ELEMENTS WHICH EXIST ABOVE THE

POSITIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS

NEGATIVE PRESSURES 2 OR 3 APPLIED TO THE SHEATHING OR PANELING AND ITS

P4/5 SHALL BE APPLIED TO THE DESIGN OF THE STRUCTURAL ELEMENT OF THE

7. A DESIGN WIND PRESSURE HORIZONTAL VALUE OF 121 PSF AND VERTICAL VALUE OF 96 PSF

ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUS, AHUS,

OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT

STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT

CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT

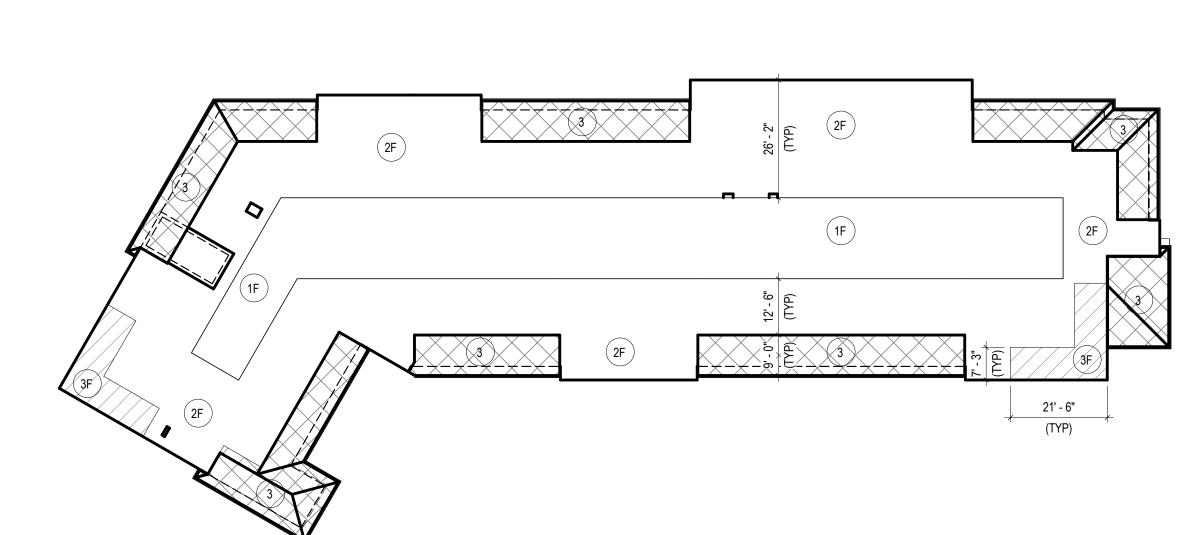
SHALL BE APPLIED TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR

8. ROH#: DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF

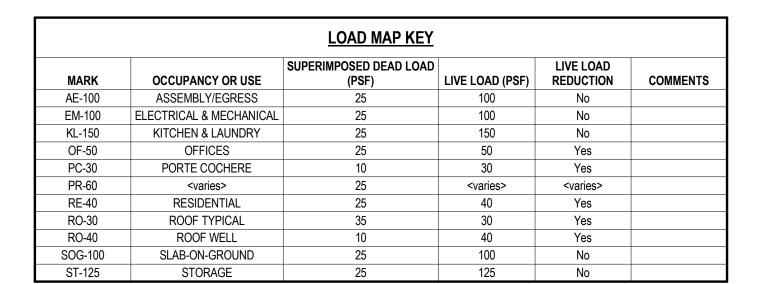
WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE

9. ALL DOORS TO BE RATED TO RESIST DESIGN WIND PRESSURES SPECIFIED.

WALL ELEVATION



COMPONENTS & CLADDING ROOF PRESSURE DIAGRAM





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MATERIAL SPECIFICATIONS.

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> LOADING **CRITERIA**

> **S-002**

- THE USE OF RECYCLED CONCRETE IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. NORMAL WEIGHT CONCRETE SHALL BE USED FOR ALL CONCRETE MEMBERS UNLESS NOTED OTHERWISE. NORMAL WEIGHT CONCRETE SHALL HAVE A CURED DENSITY OF 145 PCF. WHERE LIGHT WEIGHT CONCRETE IS
- SPECIFIED THE CURED DENSITY SHALL BE 112 PCF ±3 PCF.
- EACH MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER AND THE INTENDED LOCATION OF PLACEMENT ON THE SPECIFIC PROJECT SHALL BE CLEARLY STATED. ALL PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS OR BY

WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. FOR MILD REINFORCED MEMBERS,

CONSTRUCTION JOINTS SHALL BE INDICATED, DIMENSIONED, AND DETAILED ON THE CONCRETE REINFORCEMENT

CONSTRUCTION JOINTS SHALL OCCUR WITHIN THE MIDDLE THIRD OF A MEMBER'S SPAN. ALL APPROVED

- GIRDERS, BEAMS, HAUNCHES, DROP PANELS, DROP CAPS, AND CAPITALS SHALL BE POURED MONOLITHICALLY AS PART OF THE SLAB SYSTEM UNLESS NOTED OTHERWISE.
- PROVIDE A ¾ INCH CHAMFER AT ALL EXPOSED CORNERS OF BEAMS, WALLS, ETC UNLESS NOTED OTHERWISE. CONCRETE CORING AND INSTALLATION OF DRILLED ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL
- FROM THE STRUCTURAL ENGINEER OF RECORD. REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL CONCRETE DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL COORDINATE BETWEEN THE ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS TO FURNISH DIMENSIONED DRAWINGS THAT LOCATE AND SIZE ALL SLAB EDGES, OPENINGS, AND PENETRATIONS. THESE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR
- EMBEDDED CONDUITS, PIPES, AND SLEEVES

GRADE 60 UNLESS OTHERWISE NOTED.

- 1. THE OUTSIDE DIAMETER OF CONDUITS, PIPES, AND SLEEVES SHALL NOT EXCEED ONE-THIRD THE THICKNESS OF THE SLAB, WALL OR BEAM IN WHICH THEY ARE EMBEDDED. EMBEDMENTS SHALL NOT SIGNIFICANTLY REDUCE THE CAPACITY OF THE MEMBERS THEY PENETRATE.
- 2. THE MINIMUM CLEAR COVER FOR CONDUITS, PIPES, AND SLEEVES SHALL BE 1 ½" FOR CONCRETE EXPOSED TO EARTH OR WEATHER AND ¾" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER. ALUMINUM EMBEDMENTS AND EMBEDMENTS MADE OF ANY OTHER MATERIAL HARMFUL TO THE CONCRETE OR
- REINFORCEMENT ARE PROHIBITED. EMBEDMENTS NOT SHOWN ON THE CONTRACT DOCUMENTS SHALL BE DESIGNED TO RESIST THE EFFECTS OF MATERIAL, PRESSURE, AND TEMPERATURE THAT THEY WILL BE SUBJECTED TO. THE WORK SHALL BE
- COORDINATED AMONGST ALL CONSTRUCTION TRADES. THE CONTENTS OF EMBEDDED PIPES SHALL NOT FLOW UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED DESIGN STRENGTH.
- 6. CONDUITS, PIPES, AND SLEEVES SHALL BE PLACED BETWEEN TOP AND BOTTOM LAYERS OF REINFORCEMENT IN SLABS AND BETWEEN INNER AND OUTER LAYERS OF REINFORCEMENT IN WALLS. . EMBEDDED ITEMS SHALL BE FABRICATED AND INSTALLED SUCH THAT CUTTING, BENDING, OR DISPLACEMENT

CONCRETE REINFORCEMENT

A. ALL CONCRETE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 03 OF THE

OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED.

- SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. WHERE WELDS ARE INDICATED FOR REINFORCING STEEL ON THE DRAWINGS, REINFORCING STEEL SHALL BE A706,
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF ASTM A1064. ALL 90°, 135°, AND 180° HOOKED REINFORCEMENT SPECIFIED AND GRAPHICALLY DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE DETAILED IN ACCORDANCE WITH ACI 318 STANDARD HOOK GEOMETRY FOR DEFORMED
- BARS IN TENSION AND FOR STIRRUPS, TIES, AND HOOPS. F. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MINIMUM OF 2 BARS) SHALL
- BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE, TYPICAL). FOR CONCRETE CLEAR COVER TO REINFORCEMENT SEE SCHEDULE ON THIS SHEET UNLESS NOTED OTHERWISE CLEAR COVER IN PARENTHESES () DENOTES CLEAR COVER WHEN THE AS-BUILT APPLICATION IS EXPOSED TO
- H. ALL LAP SPLICES SHALL BE CLASS B TENSION LAP SPLICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE. SEE LAP SPLICE SCHEDULE ON THIS SHEET FOR LAP SPLICE LENGTHS. UNLESS NOTED AS CONTINUOUS, REINFORCEMENT SHALL ONLY BE SPLICED AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS. SPLICES AT NON-SPECIFIED LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- A MINIMUM LAP SPLICE OF 8" SHALL BE PROVIDED AT ALL END AND SIDE LAP CONDITIONS FOR WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE
- MECHANICAL SPLICES ARE REQUIRED WHERE SPECIFIED ON THE CONTRACT DOCUMENTS. MECHANICAL SPLICES ARE ALSO REQUIRED TO SPLICE #14 AND #18 BARS. MECHANICAL SPLICES MAY ALSO BE USED AT THE CONTRACTOR'S OPTION, PROVIDED THE MECHANICAL SPLICES HAVE A CURRENT ICC-ES REPORT DEMONSTRATING THEY CAN DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION. MECHANICAL SPLICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD
- K. THE USE OF WELDED SPLICES IS PROHIBITED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT THE LOCATIONS OF WELDED SPLICES TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. IF APPROVED WELDED SPLICES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1. DOWELS SHALL MATCH SIZE AND SPACING OF PRIMARY REINFORCEMENT UNLESS NOTED OTHERWISE
- SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS AND PENETRATIONS. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCEMENT BAR SIZES AND PLACEMENT WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT

			CONCRETE	MIXTURE REQUIR	<u>REMENTS</u>				
	APPLICATION	EXPOSURE CLASS	f'c (PSI)	TEST AGE	MODULUS OF ELASTICITY (KSI)	MAXIMUM W/CM	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE	MAXIMUM CONCRETE WEIGHT
Ð	FOUNDATIONS	F0, S0, W1, C1	4000	28 DAYS	3605	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
ON-GROUND	EXTERIOR SLAB-ON-GROUND (EXTERIOR/PARKING)	F0, S0, W1, C2	5000	28 DAYS	4031	0.40	SEE NOTE 3	1"	150 PCF
O	SLAB-ON-GROUND (INTERIOR)	F0, S0, W0, C0	3000	28 DAYS	3122	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
VERTICAL	SHEAR WALLS AND COLUMNS (FIRST FLOOR)	F0, S0, W2, C2	5000	28 DAYS	4031	0.40	SEE NOTE 3	3/4"	150 PCF
	SHEAR WALLS AND COLUMNS (SECOND FLOOR TO ROOF)	F0, S0, W0, C0	5000	28 DAYS	4031	SEE NOTE 2	SEE NOTE 3	3/4"	150 PCF
	CMU FILLED CELLS	GROUT MI	X SHALL BE USED FOR	R CMU FILLED CELLS - S	SEE CONCRETE MASONR	Y UNIT GENERAL NOT	TES, DETAILS, AND S	PECIFICATIONS	
0	POST TENSIONED ELEVATED FRAMING (EXTERIOR)	F0, S0, W2, C2	6000 3000	28 DAYS 48 HOURS	4415 @ 28-DAYS	0.40	SEE NOTE 3	3/4"	150 PCF
ELEVATED	POST TENSIONED ELEVATED FRAMING (INTERIOR)	F0, S0, W0, C0	6000 3000	28 DAYS 48 HOURS	4415 @ 28-DAYS	SEE NOTE 2	SEE NOTE 3	3/4"	150 PCF
山	ELEVATED SLABS AND BEAMS (NON- PRESTRESSED)	F0, S0, W1, C1	5000	28 DAYS	4031	SEE NOTE 2	SEE NOTE 3	3/4"	150 PCF
	NOTES:								

- EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY, AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE WATER/CEMENT RATIO SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX DESIGN. THERE IS NO MAXIMUM WATER/CEMENT RATIO REQUIREMENT FOR THE EXPOSURE CLASSIFICATION ASSOCIATED WITH THIS APPLICATION. MAXIMUM WATER/CEMENT RATIO IS NOT APPLICABLE FOR DURABILITY REQUIREMENTS IN LIGHTWEIGHT CONCRETE. THERE IS NO MANDATORY TARGET AIR CONTENT FOR THIS APPLICATION. THE CONTRACTOR MAY CHOOSE TO ADD AIR ENTRAINMENT TO IMPROVE THE WORKABILITY AND
- FINISHING PROPERTIES OF THE MIX. AIR CONTENT SHALL BE AS REQUIRED FOR THE SPECIFIED CONCRETE MIX. COARSE AGGREGATE SHALL BE ASTM C 33, GRADED. SELECT GRADING CLASS PER TYPE OF CONSTURCTION OR LOCATION USED, AND IN RELATION TO SPECIFIC WEATER
- REGION. AGGREGATE SHALL BE FROM A SINGLE SOURCE. #67 GRADING SHALL BE USED FOR CONCRETE WITH 3/4 INCH MAXIMUM; # 57 GRADING SHALL BE USED FOR CONCRETE WITH 1 INCH MAXIMUM.

APPLICATION	BOTTOM	ТОР	SIDES
FOUNDATIONS	3"	2"	3"
SLAB-ON-GROUND	SEE DETAILS	SEE DETAILS	3"
RETAINING WALLS	N/A	N/A	2"
SHEAR WALLS	N/A	N/A	1 ½"
COLUMNS	N/A	N/A	2" TO VERTICAL BARS
INTERIOR ELEVATED SLABS	3/"	3/4"	1 ½"
EXTERIOR ELEVATED SLABS - POST TENSIONED	1"	1"	1 ½"
EXTERIOR ELEVATED SLABS - CONVENTIONAL	1"	1 ½"	1 ½"
STRUCTURED SLAB-ON-GROUND	3"	1 ½"	2"
BEAMS	1 ½"	1 ½"	1 ½"

DEVELOPMENT LENGTH SCHEDULE (INCHES)									
MIN BAR	TENSION								
SPACING		L	d			Lo	dh		
(INCHES) [MAX OF db + 1" OR 2db]	3,000	4,000	5,000	6,000	3,000	4,000	5,000	6,000	
1.375	17	15	13	12	9	8	7	6	
1.500	22	19	17	16	11	10	9	8	
1.625	28	24	22	20	14	12	11	10	
1.750	33	29	26	24	17	15	13	12	
1.875	48	42	38	34	20	17	15	14	
2.000	55	48	43	39	22	19	17	16	
2.375	62	54	48	44	25	22	20	18	
2.625	70	61	54	50.	28	25	22	20	
2.875	78	67	60	55	31	27	24	22	
	MIN BAR SPACING (INCHES) [MAX OF db + 1" OR 2db] 1.375 1.500 1.625 1.750 1.875 2.000 2.375 2.625	MIN BAR SPACING (INCHES) [MAX OF db + 1" OR 2db] 1.375 17 1.500 22 1.625 28 1.750 33 1.875 48 2.000 55 2.375 62 2.625 70	MIN BAR SPACING (INCHES) [MAX OF db + 1" OR 2db] 1.375 1.500 22 19 1.625 28 24 1.750 33 29 1.875 48 42 2.000 55 48 2.375 62 54 2.625 70 61	MIN BAR SPACING (INCHES) [MAX OF db + 1" OR 2db] 1.375 17 15 13 1.500 22 19 17 1.625 28 24 22 1.750 33 29 26 1.875 48 42 38 2.000 55 48 43 2.375 62 54 48 2.625 70 61 54	MIN BAR SPACING (INCHES) [MAX OF db + 1" OR 2db] 1.375 17 15 13 12 1.500 22 19 17 16 1.625 28 24 22 20 1.750 33 29 26 24 1.875 48 42 38 34 2.000 55 48 43 39 2.375 62 54 48 44 2.625 70 61 54 50	MIN BAR SPACING Ld	MIN BAR SPACING (INCHES) [MAX OF db + 1" OR 2db]	MIN BAR SPACING Ld Ldh	

	LAP SPLICE LENGTH SCHEDULE (INCHES)								
			TENSION (LTS)						
	MIN BAR	f'c = 4,	000 PSI	f'c = 5,	000 PSI	f'c = 6,	000 PSI		
BAR SIZE	SPACING (INCHES)	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER		
#4	1.500	33	25	29	23	27	21		
#5	1.875	41	31	36	28	33	26		
#6	2.250	49	37	44	34	40	31		
#7	2.625	71	54	63	49	58	45		
#8	3.000	81	62	72	56	66	51		
#9	3.500	91	70	81	63	74	57		
#10	3.875	102	79	92	71	84	64		
#11	4.250	114	87	102	78	93	71		

CMU - REINFORCING SPLICES¹

1 VERT.

57"

1. SEE TYPICAL REBAR LAYOUT DETAIL FOR BAR PLACEMENT. WHERE BARS OF DIFFERENT SIZES

ARE TO BE SPLICED, THE SPLICE LENGTH SHALL BE THAT REQUIRED FOR THE LARGER BAR.

#7 60" 107" 81" 60" 107"⁴

2. SPLICES OF VERTICAL REINFORCEMENT SHALL BE PLACED NEXT TO THE MAIN BAR AS

3. SPLICES OF HORIZONTAL REINFORCEMENT SHALL BE PLACED VERTICALLY OVER THE MAIN

4. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TOW BARS PER COURSE

VERTICAL BARS²

INDICATED IN THE ILLUSTRATION.

SHALL BE STAGGERED.

NOTES:

2 VERT.

HORIZONTAL BARS

1 VERT.

2 HORIZ. 26"⁴

40"4

74"4

2 VERT.

2 HORIZ.

70"4

131"4

2 VERT.

1 HORIZ.

CONCRETE MASONRY

- A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS. ALL MASONRY DESIGN SHALL CONFORM TO TMS 402 AND ALL MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602. B. ALL LOAD-BEARING, NON-LOAD-BEARING, AND BACKUP WALL CONCRETE MASONRY UNIT CONSTRUCTION SHALL
- CONFORM TO THE FOLLOWING MATERIAL STANDARDS: CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF) MORTAR: ASTM C270, TYPE 'S' OR 'M' PORTLAND CEMENT/LIME ONLY (USE TYPE 'M' MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH SOIL; TYPE
 - 'S' IS IN ALL OTHER CONDITIONS) ASTM C476 ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER
- 4. PORTLAND CEMENT: CONSTRUCTION) HYDRATED LIME: ASTM C207. TYPE 'S' AGGREGATE: ASTM C404 (FOR GROUT
- STEEL REINFORCEMENT: ASTM A615, GRADE 60 8. JOINT REINFORCEMENT:
- ASTM A1064, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153, C. CONCRETE MASONRY UNITS: 1. F'_M SHALL BE 2000 PSI (MINIMUM NET AREA CMU COMPRESSIVE STRENGTH SHALL BE 2000 PSI).

2. LAY CONCRETE MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE WITH UNITS DESIGNED TO

- ALIGN WITH WEBS IN EACH COARSE. . HEAD AND BED JOINTS SHALL BE 3/8 INCHES FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF: PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING ½ INCHES OR
- MORE INTO CELLS TO BE GROUTE PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
- MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28-DAYS. . GROUT MIX SHALL CONTAIN PORTLAND CEMENT, AGGREGATE, AND A GROUT-ENHANCING SHRINKAGE-
- COMPENSATING ADMIXTURE. 3. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER REDUCING ADMIXTURES MAY BE USED.
- 4. GROUT ALL MASONRY CONTAINING REINFORCEMENT, AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF THE CELLS CONTAINING REINFORCEMENT TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING. USE 5'-0" (MAXIMUM) LIFTS. WITH ½ HOUR TO 1 HOUR BETWEEN LIFTS.
- 5. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED. F. STEEL REINFORCEMENT 1. PROVIDE VERTICAL REINFORCEMENT IN CELLS OF CONCRETE MASONRY UNITS (FULLY EMBEDDED IN GROUT) AS SHOWN ON THE PLANS AND OTHER DETAILS. MINIMUM REINFORCEMENT OF EXTERIOR MASONRY SHALL BE AS FOLLOWS:
- a. 1-#5 AT A MAXIMUM SPACING OF 48 INCHES 1-#5 AT EACH CORNER HEAVIER REINFORCEMENT MAY BE REQUIRED BY PLAN NOTES OR DETAILS IN THE DRAWINGS. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF
- OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET 3. ALL VERTICAL REINFORCEMENT SHALL HAVE STANDARD HOOK INTO BOND BEAM. TERMINATE AT HIGHEST BOND BEAM IF MASONRY DOES NOT EXTEND TO ROOF OR GROUTED CELL IS NOT CONTINUOUS TO ROOF. HOOK SHALL EXTEND TO THE UPPERMOST HORIZONTAL REINFORCEMENT OF THE BOND BEAM AND HAVE A MINIMUM EMBEDMENT OF 6 INCHES.
- 4. ALL HORIZONTAL REINFORCEMENT AT ENDS OF BOND BEAMS SHALL HAVE STANDARD HOOK INTO VERTICAL GROUTED CELL. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND 5. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING:
- EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES (#5 AND SMALLER BARS), 2 INCHES (#6 AND LARGER BARS) b. NOT EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES G. JOINT REINFORCEMENT: 1. JOINT REINFORCEMENT SHALL BE LADDER TYPE, 9 GAUGE, SPACED VERTICALLY AT EVERY 2 COURSES
- UNLESS NOTED OTHERWISE
- 2. PROVIDE JOINT REINFORCEMENT SPACED VERTICALLY AT EVERY COURSE FOR MASONRY BELOW GRADE AND IN PARAPETS AND CANTILEVERED WALLS. 3. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT TOP AND BOTTOM OF OPENINGS
- (EXTEND 24 INCHES EACH SIDE). 4. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT BOND BEAMS.
- 5. OVERLAP DISCONTINUOUS JOINT REINFORCEMENT BY AT LEAST 6 INCHES. 6. USE PREFABRICATED CORNERS AND TEES.

JOINT DETAIL FOR GUIDELINES AND SPACING.

- EXTEND JOINT REINFORCEMENT A MINIMUM OF 4 INCHES INTO THE TIE BEAM.
- REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. WHERE INDICATED ON DRAWINGS, INTERLOCK WALLS WITH METAL TIES, ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS OR SEE SPECIFICATIONS. 9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A

MINIMUM HORIZONTAL EDGE COVER OF 5/8 INCHES WHEN EXPOSED TO EARTH AND WEATHER AND ½ INCHES

- WHEN NOT EXPOSED TO EARTH OR WEATHER. H. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH TMS 602. WHERE ANCHOR BOLTS, WEDGE ANCHORS, OR ANCHORS SET IN EPOXY ARE PLACED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
- USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY. CALCIUM CHI ORIDE SHALL NOT BE USED IN MORTAR OR GROUT. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS AND DIMENSIONED LOCATION OF OPENINGS. NON-LOAD BERING WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
- M. CONCRETE MASONRY UNITS SHALL BE CUT BELOW BEAMS, LINTELS, OR BOND BEAMS AS REQUIRED IN ORDER TO SET CONTINUOUS BEAM, LINTEL, OR BOND BEAMS AT THE PROPER ELEVATION. N. ALL CELLS BELOW GRADE AND SLAB-ON-GROUND SHALL BE FULLY GROUTED.

O. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN MASONRY SHALL BE ADHERED TO

- (SEE MEP DRAWINGS FOR LOCATIONS OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC). THESE CRITERIA WILL . CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO MASONRY AND MEETING THE CRITERIA BELOW SHALL BE PERMITTED TO BE EMBEDDED IN MASONRY. ALL OTHER CONDUITS, PIPES, AND SLEEVES SHALL NOT BE EMBEDDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
- CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL MASONRY. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A WALL SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION. CONDUITS, PIPES, AND SLEEVES SHALL NOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF
- 4. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. 5. CONDUITS AND PIPES SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
- 6. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN OR WALL SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET SECTION OR AS REQUIRED BY FIRE PROTECTION. P. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY ASSUMING FULL
- BRACING TOP, BOTTOM, AND/OR SIDE OF WALL AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY AND ADEQUATELY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD OCCUR PRIOR TO THE COMPLETION OF CONSTRUCTION. Q. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION. REFER TO TYPICAL CONTROL

POST-INSTALLED ANCHORS

- SEE THE POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION SCHEDULE ON THIS SHEET FOR PRE-
- APPROVED PRODUCTS WHEN A SPECIFIC MANUFACTURER AND PRODUCT IS NOT CALLED FOR. IT IS ACCEPTABLE TO USE ANY OF THE LISTED PRODUCTS FOR THAT APPLICATION AS APPROPRIATE FOR THE SUBSTRATE AND LIMITATIONS OF THE PRODUCT PER MANUFACTURER'S LITERATURE. WHEN A SPECIFIC PRODUCT IS LISTED WITHIN THE CONSTRUCTION DOCUMENTS, SUBSTITUTIONS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD, INCLUDING
- SUBSTITUTION FOR ONE OF THE PRE-APPROVED ANCHORS LISTED. SEE THE POST-INSTALLED ANCHORS INSTALLATION REQUIREMENTS ON THIS SHEET, THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, AND THE ASSOCIATED PRODUCT APPROVALS FOR EACH PRODUCT TO
- BE UTILIZED ON THIS PROJECT. ANCHOR MATERIALS/COATINGS SHALL BE STAINLESS STEEL (TYPE 316) AT ALL EXTERIOR LOCATIONS OR UNCONDITIONED SPACES. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, PROVIDE SEPARATING RUBBER/NEOPRENE WASHERS AT DISSIMILAR MATERIALS WHEN ANCHOR MATERIAL DIFFERS FROM FIXTURE
- SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, APPLICABLE EVALUATION REPORTS, AND AS INDICATED WITHIN THE SPECIAL INSPECTIONS PLAN WITHIN THE CONSTRUCTION DOCUMENTS. CONTINUOUS INSPECTION SHALL BE PROVIDED FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY, UPWARDLY
- INCLINED, OR OVERHEAD. ADHESIVE ANCHORS SHALL BE PROOF TESTED AS FOLLOWS:
- 1. EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF TESTED IN TENSION BY AN INDEPENDENT TESTING PROOF LOADING SHALL BE PERFORMED TO ADHESIVE ANCHORS AS FOLLOWS:

a. 10% OF ADHESIVE ANCHORS FOR EACH TYPE AND SIZE OF ADHESIVE ANCHOR.

- b. ADDITIONAL SPECIFIC ANCHORS AS NOTED WITHIN THE CONSTRUCTION DOCUMENTS. PROOF LOADING SHALL BE PERFORMED ON PRODUCTION ANCHORS. SACRIFICIAL ANCHORS SHALL BE NOT
- CONSIDERED ACCEPTABLE. 4. THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE STRUCTURAL ENGINEER OF RECORD.
- TENSION TESTING SHALL BE PERFORMED IN ACCORDINANCE WITH ASTM E488 AND ACI 355.4. PERFORMED AFTER THE 28-DAY CONCRETE CURING PERIOD AND AFTER THE MINIMUM EPOXY CURING PERIOD SPECIFIED BY THE MANUFACTURER. PROOF LOAD SHALL BE 1.5 x THE ASD CAPACITY OF THE ANCHOR, AND LOAD SHALL
- BE MAINTAINED ON THE ANCHOR FOR A MINIMUM OF 10 SECONDS. ANCHORS SHALL HAVE NO VISIBLE INDICATED OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.
- IF MORE THAN 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHING THE LIMITED DEFINED IN THESE NOTES, AN ADDITIONAL 25% OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED.
- IN THE EVENT OF FAILURE TO ACHIEVE PROOF LOAD, OR EXCESSIVE DISPLACEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE CONCRETE.

POST-TENSIONED CONCRETE

- A. ALL POST-TENSIONED CONCRETE SHALL MEET THE REQUIREMENTS IN THE CONCRETE MIX SCHEDULE ON THIS SHEET. PRIOR TO STRESSING OF THE POST-TENSIONED SLAB, THE CONCRETE SHALL ATTAIN A MINIMUM OF TWO-THIRDS OF THE SPECIFIED 28-DAY COMPRESSIVE DESIGN STRENGTH, OR ALTERNATIVELY, THE MINIMUM REQUIRED BY THE POST-TENSIONING MANUFACTURER, WHICHEVER IS GREATER.
- B. NO CONCRETE SHALL BE PLACED UNTIL THE POST-TENSIONING TENDONS AND REINFORCEMENT LOCATIONS HAVE BEEN INSPECTED AND APPROVED BY THE TESTING AGENCY C. THE CONTRACTOR SHALL SUBSTANTIATE CONCRETE STRENGTH BEFORE POST-TENSIONING AND STRESSING SHALL BEGIN WITHIN 24 HOURS FROM THE TIME THAT THE CONCRETE ATTAINS THE INDICATED STRENGTH. POST-
- TENSIONED CONCRETE SLABS SHALL REMAIN SHORED UNTIL THE SLAB IS STRESSED. D. POST-TENSIONED FORCES SPECIFIED ON THE CONSTRUCTION DRAWINGS ARE EFFECTIVE FORCES AFTER ALL I. POST-TENSIONING SUPPLIER SHALL DETERMINE TENDON LOSSES IN ACCORDANCE WITH ACI 318 AND SHALL
- PROVIDE SUFFICIENT CABLE TO DEVELOP FINAL EFFECTIVE FORCES AS INDICATED ON THE STRUCTURAL E. TENDONS SHALL BE STRESSED TO A MAXIMUM OF 80% OF Fpu WHILE ANCHORAGE STRESSES SHALL BE A
- MAXIMUM OF 70% OF Fpu. HOWEVER, STRESSES SHALL NOT BE GREATER THAN THE MAXIMUM VALUE RECOMMENDED BY THE MANUFACTURER OF THE POST-TENSIONING STEEL OR ANCHORAGE DEVICES. ALL POST-TENSIONED FORCES SHOWN ARE IN KIPS OR KIPS/FT. . SLAB TENDONS FOR FORCES SHOWN IN KIPS ARE TO BE PLACED UNIFORMLY IN A BAND WIDTH ON EACH SIDE OF A
- COLUMN. PLACE EITHER TWO OR THREE TENDONS THROUGH A COLUMN SO THAT HALF OF THE REMAINING TENDONS ARE EQUAL ON EACH SIDE OF THE COLUMN. H. SLAB TENDONS FOR FORCES SHOWN IN KIPS/FT ARE TO BE PLACED UNIFORMLY BETWEEN INDICATED WIDTHS. AT
- LEAST TWO TENDONS SHALL PASS THROUGH EACH COLUMN. ALL POST-TENSIONED SLAB THICKNESSES ARE AS MARKED ON THE CONSTRUCTION DRAWINGS. J. AT DEAD ENDS AND STRESSING ENDS, TENDON CENTER OF GRAVITY SHALL BE AT CENTROID OF THE MEMBER,
- K. POST-TENSIONED SLABS ARE DESIGNED BASED ON TENDONS BEING CONTINUOUS BETWEEN EDGES OF SLABS AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY ADDITIONAL INTERMEDIATE STRESSING IO STRIPS REQUIRED BY THE CONTRACTOR MAY REQUIRE ADDITIONAL REINFORCEMENT AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL BEFORE STARTING CONSTRUCTION. COORDINATION OF THE DETAILING AND PLACEMENT OF TENDONS AND MILD REINFORCING STEEL BETWEEN
- SUPPLIERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. I. PLACE TOP REINFORCEMENT BARS UNIFORMLY IN A WIDTH EQUAL TO THE COLUMN WIDTH PLUS ONE AND A HALF TIMES THE SLAB THICKNESS ON EACH SIDE OF THE COLUMN. PLACE A MINIMUM OF THREE OR FOUR BARS THROUGH THE COLUMN SO THAT THE REMAINING BARS ARE EQUAL ON EACH SIDE OF THE COLUMN.
- WHERE NOT SHOWN OR CALLED OUT, PROVIDE THE SAME REINFORCEMENT AS SHOWN OR AS CALLED OUT FOR AT AREAS WITH SIMILAR CONDITIONS. BOTTOM BARS SHALL BE CENTERED IN SPAN, UNLESS NOTED OTHERWISE.
- PLACE TENDONS IN SMOOTH PARABOLIC DRAPES BETWEEN HIGH AND LOW POINTS SHOWN, UNLESS NOTED 4. TENDON LOW POINTS SHALL BE AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE
- OTHER TENDON CONTROL POINTS SHOWN ON THE STRUCTURAL DRAWINGS ARE DIMENSIONS TO THE CENTER OF GRAVITY FROM THE BOTTOM OF THE MEMBER, UNLESS NOTED OTHERWISE 6. PROVIDE CHAIRS AND SUPPORT BARS AS REQUIRED TO HOLD TENDONS IN THE CORRECT POSITION DURING
- PLACEMENT OF CONCRETE TENDONS SHALL NOT DEVIATE FROM THEIR CORRECT POSITION BY MORE THAN ONE-EIGHTH OF AN INCH. SLIGHT DEVIATIONS IN TENDON SPACING WILL BE PERMITTED WHERE REQUIRED TO AVOID CONFLICTS WITH OPENINGS, INSERTS, FTC.
- 8. SHOULD CONFLICT ARISE BETWEEN TENDONS, MILD REINFORCING STEEL, OR OTHER CONDUITS, TENDON LOCATIONS SHALL TAKE PRECEDENCE. M. CONTRACTOR SHALL CONDUCT CONTINUOUS INSPECTION AND RECORDING OF JACKING FORCES AND
- ELONGATIONS WHICH ARE TO BE IMMEDIATELY SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE PRIOR TO THE REMOVAL OF EXCESS TENDON END MATERIAL. N. EXCESS TENDON END MATERIAL SHALL BE REMOVED ONLY BY A PLASMA CUTTER OR AN ACCEPTED SUBSTITUTION BY THE STRUCTURAL ENGINEER OF RECORD. NO TORCH CUTTING IS PERMITTED. TENDON ENDS SHALL NOT BE CUT UNTIL THE ENTIRE SLAB HAS BEEN SATISFACTORILY STRESSED AND THE STRUCTURAL ENGINEER OF RECORD
- HAS REVIEWED THE ELONGATIONS. O. FOLLOWING REMOVAL OF EXCESS TENDON END MATERIAL, GREASE CAPS SHALL BE PLACED IN ACCORDANCE WITH THE POST-TENSIONING SUPPLIER. THE POST-TENSIONING SUPPLIER SHALL INSPECT AND PROVIDE A SIGNED AND SEALED LETTER FROM A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION
- WHERE THE PROJECT IS LOCATED, STATING THAT THE CORROSION PROTECTION SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED DOCUMENTS P. $\,\,$ THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED:
- DETAILED DESIGN OF TENDON END ANCHORAGES . THE CALCULATION OF STRESS LOSSES DUE TO CREEP, SHRINKAGE, TENDON RELAXATION, ANCHORAGE SLIP, AND FRICTION
- POST-TENSIONED SHOP DRAWINGS

- A. THE SLAB-ON-GROUND HAS BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT. B. SLAB THICKNESSES AND REINFORCEMENT ARE BASED ON A MODULUS OF SUBGRADE REACTION OF 47 PCI PER THE GEOTECHNICAL INVESTIGATION REPORT
- C. SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION
- D. FOR INTERIOR SLABS, PLACE A 10-MIL (MINIMUM) VAPOR RETARDER BETWEEN THE SOIL AND BOTTOM OF SLAB. SEE CAST-IN-PLACE CONCRETE SPECIFICATIONS FOR APPROVED VAPOR RETARDER PRODUCTS/MANUFACTURERS. DO NOT USE VAPOR RETARDERS AT EXTERIOR SLABS. SEE ARCHITECTURAL CONTRACT DOCUMENTS FOR PROJECT SPECIFIC REQUIREMENTS.
- E. IF THE SLAB-ON-GROUND HAS BEEN DESIGNATED AS A STRUCTURAL SLAB-ON-GROUND IN THE CONTRACT DOCUMENTS, NO SAW CUTTING OF THE SLAB IS PERMITTED. CONTROL JOINTS SHALL BE CUT INTO THE SURFACE OF THE SLAB, IN EACH DIRECTION. SEE THE TYPICAL SAW CUT JOINT DETAIL FOR TIME, DEPTH, AND SPACING OF JOINT REQUIREMENTS UNLESS NOTED OTHERWISE. CONTROL JOINTS SHALL BE CONSTRUCTED SUCH THAT THE AREA CONTAINED BY THE CONTROL JOINTS HAS A MAXIMUM
- RATIO OF LONG SIDE TO SHORT SIDE OF 1.5 TO 1 UNLESS NOTED OTHERWISE. DO NOT CONSTRUCT CONTROL JOINTS SUCH THAT L-SHAPED SLAB PANELS ARE CREATED. G. COLUMN ISOLATION JOINTS SHALL BE CONSTRUCTED PER THE TYPICAL COLUMN ISOLATION JOINT DETAIL IN ORDER TO PROVIDE ADEQUATE SPACE FOR COLUMN INSTALLATION.
- H. CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. SLAB CONSTRUCTION JOINTS SHALL BE DOWELED. WHERE SPECIFIED ON PLAN, WELDED WIRE REINFORCEMENT SHALL BE INSTALLED. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED SUCH THAT IT IS LOCATED AT A DEPTH OF 1 1/2" FROM THE TOP
- . REFERENCE ARCHITECTURAL AND MEP DOCUMENTS FOR SLAB FINISHES AND SLOPES NOT REFERENCED ON THE STRUCTURAL DOCUMENTS. THE MINIMUM SLAB THICKNESS SPECIFIED IN THE CONTRACT DOCUMENTS MUST BE MAINTAINED
- REQUIREMENTS L. CONDUITS SHALL NOT BE PLACED WITHIN THE SLAB. CONDUITS SHALL BE PLACED BENEATH THE SLAB.

K. REFERENCE ARCHITECTURAL DOCUMENTS FOR VAPOR RETARDER AND SLAB AND CONTROL JOINT SEALANT

POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION

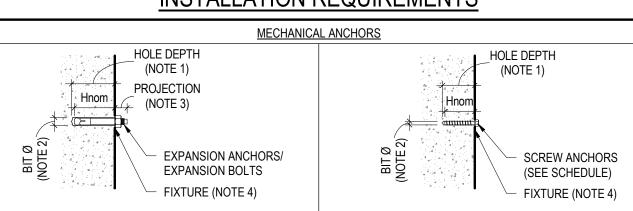
				_	
ANCHOR TYPE			<u>CONCRETE</u>	CONCRETE MASONRY	
ANICAL	EXPANSION ANCHORS/ EXPANSION BOLTS		HILTI KWIK BOLT TZ SIMPSON STRONG-BOLT 2 DEWALT POWER-STUD+ SD2	HILTI KWIK BOLT 3 SIMPSON STRONG-BOLT 2 DEWALT POWER-STUD+ SD1	
MECHANICAL	SCREW ANCHORS	<u></u>)	HILTI HUS-EZ SIMPSON TITEN HD DEWALT SCREW-BOLT+	HILTI HUS-EZ SIMPSON TITEN HD DEWALT SCREW-BOLT+	
ADHESIVE	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH A36 ALL-THREAD ROD		HILTI HIT-HY200 SIMPSON SET-3G DEWALT PURE110+ OR PURE220+	HILTI HIT-HY270 SIMPSON SET-3G DEWALT AC100+ GOLD	
ADHE	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH REBAR		HILTI HIT-HY200 SIMPSON SET-3G DEWALT PURE110+ OR PURE220+		

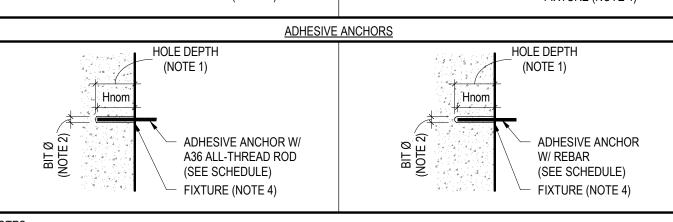
POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCEMENT. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE

ALTERNATE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO KNOWN AS AN EVALUATION REPORT, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE REFERENCED BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G., WIND, SEISMIC, SUSTAINED TENSION, ETC.). RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING

SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND/OR EVALUATION REPORT. UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.

POST-INSTALLED ANCHORS **INSTALLATION REQUIREMENTS**





EMBEDMENT LENGTH.

- POST-INSTALLED ANCHORS ARE SPECIFIED BY THE NOMINAL EMBEDMENT (Hnom) INDICATED IN MANUFACTURER'S LITERATURE INCREASE THE HOLE DEPTH AS REQUIRED BY THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS FOR THE SPECIFIED ANCHOR SIZE AND EMBEDMENT
- COORDINATE BIT DIAMETER WITH MANUFACTURER REQUIREMENTS. TOTAL ANCHOR LENGTH SHALL BE COORDINATED TO PROVIDE ADEQUATE PROJECTION LENGTH FOR FIXTURE THICKNESS, WASHER(S) AS REQUIRED (SEE NOTE 5), AND FULL ENGAGEMENT OF NUT.
- FIXTURE CONSIDERATIONS SHALL BE COORDINATED WITH MANUFACTURER REQUIREMENTS: A. CONSIDERATION FOR "THROUGH-SET" VS "PRESET" INSTALLATION IN DETERMINING FIXTURE HOLE DIAMETER AND WASHER REQUIREMENTS (SEE NOTE 5). B. INCREASE NOMINAL EFFECTIVE EMBEDMENT IF REQUIRED WHEN FIXTURE THICKNESS IS LESS THAN MINIMUM FOR
- PROVIDE DOUBLE WASHERS WHEN "THROUGH-SET" INSTALLATION IS USED FOR ADHESIVE ANCHORS AS REQUIRED BY MANUFACTURER REQUIREMENTS LOCATE, BY NONDESTRUCTIVE MEANS, ALL EXISTING REINFORCEMENT AND EMBEDMENTS (REBAR, POST-TENSIONED TENDONS CONDUIT, ETC) AND TAKE NECESSARY MEASURES TO AVOID CONFLICT AND DAMAGE OF EXISTING ELEMENTS DURING DRILLING
- OPERATIONS AND THE INSTALLATION OF ANCHORS. IF EXISTING REINFORCEMENT AND/OR EMBEDMENTS PROHIBIT THE INSTALLATION OF ANCHORS AS INDICATED ON THE STRUCTURAL DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY AND DISCONTINUE DRILLING OPERATIONS. DEFECTIVE OR ABANDONED HOLES WITHIN A DISTANCE OF THE GREATER OF (4 x ANCHOR DIAMETER) OR 3", WHICHEVER IS GREATER, SHALL BE FILLED WITH AN INJECTABLE ADHESIVE PRODUCT.
- COORDINATE OTHER REQUIREMENTS WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) TEMPERATURE, HOLE DRILLING/CLEANING/PREPARATION, AND INSTALLATION TORQUE. INSTALLATION INTO CORE DRILLED HOLES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY ALLOWED BY MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS WITH CERTIFICATION THAT EQUAL CAPACITY IS ACHIEVED TO INSTALLATION IN HOLES DRILLED USING CARBIDE-TIPPED BITS. HOLES SHALL NOT BE OVERSIZED
- ADDITIONAL NOTES FOR ANCHORS IN MASONRY WALLS A. ANCHORS SHALL NOT BE INSTALLED WITHIN 1-3/8" OF HEAD JOINTS. THE GENERAL CONTRACTOR SHALL REVIEW FIXTURE HOLE LOCATIONS RELATIVE TO HEAD JOINT LAYOUT ACCORDINGLY AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF GEOMETRY RESULTS IN A CONDITION WHERE ANCHORS WILL BE LOCATED WITHIN THIS DISTANCE FROM HEAD JOINTS
- FOR A MODIFIED ANCHOR LAYOUT . ANCHORS SHALL NOT BE INSTALLED IN HOLLOW CORE / UNGROUTED MASONRY. THE GENERAL CONTRACTOR SHALL COORDINATE FILLED CELL LOCATIONS AND PROVIDE POUR STOPS TO PROVIDE SOLID GROUTED MASONRY AT ALL AREAS TO RECEIVE POST-INSTALLED ANCHORS WITH A MINIMUM EDGE DISTANCE OF 4" ON ALL SIDES IF INSTALLATION INTO HOLLOW CORE / UNGROUTED MASONRY IS REQUIRED. SCREEN TUBES INTO HOLLOW CORE / UNGROUTED MASONRY SHAL ONLY BE PERMISSIBLE WHEN SPECIFICALLY INDICATED AS SUCH WITHIN THE DOCUMENTS, OR WITH WRITTEN APPROVAL TO
- DO SO BY THE STRUCTURAL ENGINEER OF RECORD. INSTALLATION OF ANCHORS INTO EXISTING MASONRY WALLS SHALL CONFORM WITH THESE REQUIREMENTS, INCLUDING KNOCKING OUT OF FACE SHELLS AS REQUIRED TO GROUT SOLID AND/OR KNOCKING OUT LOCAL HEAD JOINTS TO CREATE SOLID PORTIONS OF WALL WITH NO JOINT WITHIN THE REQUIRED EDGE DISTANCE FOR ANCHOR INSTALLATION.
- ADDITIONAL NOTES FOR ADHESIVE ANCHORS: A. ADHESIVE ANCHOR DESIGN TEMPERATURE RANGE IS 110°F (LONG TERM) AND 130°F (SHORT TERM). B. IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:
- INSTALLATION b. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT. d. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, BUT NOT OUTSIDE OF THE DESIGN TEMPERATURE RANGE.

a. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR

- e. LOAD SHALL NOT BE APPLIED TO ADHESIVE ANCHORS UNTIL THE FULL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY CERTIFIED PERSONNEL. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT ANCHOR ALIGNMENT SHALL BE WITHIN 6° OF PERPENDICULAR TO THE BASE MATERIAL. ANCHORS OUT-OF-ALIGNMENT SHALL BE
- REVIEWED BY A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED WITH SIGNED AND SEALED CALCULATIONS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD TO EVALUATE INDUCED BENDING LOAD USING A RATIONAL METHOD. ALTERNATELY, JOB SITE TESTS MAY BE CONDUCTED WITH WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD TO DO SO. ANCHORS SHALL NOT BE REUSED AFTER INITIAL INSTALLATION. HOLES FOR REMOVED ANCHORS SHALL NOT BE REUSED.

www.thw.com . NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF SUBSTRATE THICKNESS IS NOT COMPATIBLE WITH THE INDICATED

ISSUED FOR

CONSTRUCTION

12/01/2025

THOMPSON HANCOCK

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2632 Broadway Street

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San Antonio, TX 78215

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PRELIMINARY

DRAWINGS, NOT TO

BE USED FOR

RECORDING.

IMPLEMENTATION

REGULATORY

APPROVAL

PERMITTING, OR

CONCRETE **GENERAL**

KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND

NOTES

JEZERINAC GROUP

1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004 TO THE BEST OF THE ENGINEER'S

MATERIAL SPECIFICATIONS.

12/1/2025 6:01:56 PM

08/22/25 DESIGN

12/01/25 CONSTRUCTION

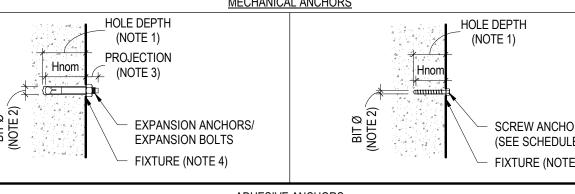
NO. DATE DESCRIPTION

DOCUMENTS

DEVELOPMENT

SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE REFERENCED BUILDING CODE.

JURISDICTION.



. BOLTS:

ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI 1. ROLLED SHAPES AND CHANNELS: ANGLES FOR TRUSSES AND BRACES: ASTM A36 MIN YIELD STRENGTH 36 KSI

MISCELLANEOUS ANGLES: ASTM A500 GRADE C, MIN YIELD STRENGTH 46 KSI FOR ROUND AND 4. HOLLOW STRUCTURAL SECTIONS: 50 KSI FOR RECTANGULAR HSS B. CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR

CONNECTION DESIGN: ANGLES: ASTM A36 WTs: ASTM A992 PLATES: ASTM A36

NUTS: ASTM A563 WASHERS: ASTM F436 ANCHOR RODS:

ASTM F1554 GRADE 36 8. WELD ELECTRODES: MATCH FILLER METAL TO BASE METAL PER AWS D1.1 WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ANY NATURAL CAMBER IS UPWARD AFTER ERECTION.

ASTM A325

D. CANTILEVERED BEAMS WITH NATURAL MILL CAMBER SHALL BE ERECTED SUCH THAT THE CAMBER IS ORIENTED DOWNWARD (OR CONCAVE UP). E. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS

APPROVED OTHERWISE BY THE SER IN WRITING. F. FOR STEEL MEMBERS AND EMBEDMENTS EXPOSED TO WEATHER, PROVIDE HOT-DIPPED GALVANIZED FINISH.

G. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1 1/8" DIA. AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.

OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL I. FIELD MODIFICATIONS OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND

STRUCTURAL ENGINEER. WHERE BEAM SHEAR IS NOT NOTED, DESIGN FOR 30K. K. ALL CONNECTIONS SHALL BE DESIGNED FOR THE SPECIFIED SHEAR, MOMENT, AND AXIAL LOADS ON THE DRAWINGS.

THE CONNECTIONS SHALL BE DESIGNED FOR LOAD REVERSAL. ALL CONNECTIONS FORCES SPECIFIED ON PLAN ARE ULTIMATE LEVEL FORCES UNLESS NOTED OTHERWISE. L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, AND FABRICATION OF ALL STEEL FRAMING

CONNECTIONS UNLESS SPECIFICALLY NOTED AS 'COMPLETELY DESIGNED' ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, WHO SHALL DESIGN THE CONNECTIONS. SUBMIT SIGN AND SEALED CALCULATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO STARTING FABRICATION.

CONNECTION DESIGN SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATIONS AND THE BUILDING CODE. CONNECTIONS SHALL BE CAPABLE OF RESISTING VERTICAL AND HORIZONTAL LOADS LISTED ON THE DRAWINGS. CONNECTION DESIGN SHALL PROVIDE AN ADEQUATE LOAD PATH TO TRANSFER THE LOADS FROM EACH MEMBER. THROUGH THE CONNECTION, INTO THE SUPPORTING MEMBER, AND SHALL CONSIDER THE EFFECTS OF THE FORCES ON EACH MEMBER. PROVIDE STIFFENER PLATES, WEB DOUBLER PLATES, FLANGE CONTINUITY PLATES, ETC, AS REQUIRED. MEMBERS SHOWN ON THE DRAWINGS HAVE NOT BEEN SIZED FOR LOCAL EFFECTS AT CONNECTIONS. STEEL CONNECTION DETAILS SHOW GENERAL CRITERIA FOR DESIGN AND DETAILING, AND ARE NOT INTENDED TO

SHOW COMPLETE CONNECTION CONFIGURATIONS OR OTHER SPECIFIC INFORMATION THAT ARE THE RESPONSIBILITY OF THE CONNECTION DESIGN ENGINEER. ALTERNATIVE CONNECTION CONFIGURATION MAY BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. CONNECTIONS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS ARE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS THAT INCLUDE, BUT ARE NOT LIMITED TO ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS.

STEEL BEAMS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS AT THE MAXIMUM DECK SPAN LOCATION UNLESS NOTED OTHERWISE. MINIMUM CONNECTIONS SHALL BE A TWO-BOLT CONNECTION USING 3/4 INCH-DIAMETER A325 BOLTS IN SINGLE SHEAR UNLESS NOTED OTHERWISE. ALL HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED, AND INSPECTED IN ACCORDANCE WITH THE RCSC. BOLTS IN CONNECTIONS SHALL BE INSTALLED WITH FULL PRETENSION EXCEPT WHERE "SNUG-TIGHT" INSTALLATION IS SPECIFICALLY PERMITTED ON THE DRAWINGS. WHERE CONNECTIONS ARE NOTED AS SNUG-TIGHT, THE CONTRACTOR MAY INSTALL PER THE CRITERIA FOR SNUG-TIGHT BOLTS. BOLTS IN SLIP-CRITICAL CONNECTIONS SHALL BE INSTALLED USING TURN-OF-NUT PRETENSIONING, TWIST-OFF TYPE TENSION CONTROL BOLT PRETENSIONING, OR DIRECT-TENSION-INDICATOR (DTI) PRETENSIONING. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

A. ALL WELDING SHALL BE PERFORMED IN STRICT ADHERENCE TO A WRITTEN WELDING PROCEDURE SPECIFICATION PER AMERICAN WELDING SOCIETY D1.1. ALL WELDING PARAMETERS SHALL BE WITHIN THE ELECTRODE MANUFACTURER'S RECOMMENDATIONS. WELDING PROCEDURES SHALL BE SUBMITTED TO THE OWNER'S TESTING AGENCY FOR REVIEW BEFORE STARTING FABRICATION OR ERECTION. COPIES OF THE WELDING PROCEDURE SPECIFICATION SHALL BE ON SITE AND AVAILABLE TO ALL WELDERS AND THE SPECIAL INSPECTOR.

B. ALL WELDS SHALL BE MADE USING LOW HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH PER AWS D1.1 (MINIMUM 70 KSI). C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOINT PREPARATIONS AND WELDING PROCEDURES THAT

INCLUDE, BUT ARE NOT LIMITED TO: REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, TAPERS, AND TRANSITIONS OF UNEQUAL PARTS.

. WELDING SHALL BE DONE BY WELDERS WITH CURRENT AMERICAN WELDING SOCIETY CERTIFICATION. E. FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWINGS. WHERE SHOWN, PROPER FIELD WELDING PER AMERICAN WELDING SOCIETY D1.1 SHALL BE USED. WHERE NO FIELD WELDING SYMBOLS ARE

SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS. F. ALL WELD SIZES SHALL BE THE LARGER OF: THE SIZE REQUIRED BY THE CONNECTION FORCES, MINIMUM SIZE PER ANSI/AWS D1.1 OR 3/16 INCH MINIMUM FILLET WELD, UNLESS NOTED OTHERWISE.

G. PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DELEVOP THE ALLOWABLE TENSILE FORCE OF THE SMALLER MEMBER AT THE JOINT, UNLESS NOTED OTHERWISE.

H. ALL FILLET WELDS SHALL BE VISUALLY INSPECTED BY THE TESTING FIRM. GROOVE WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE J. ALL COMPLETE JOINT PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED UPON COMPLETION OF THE CONNECTION, EXCEPT PLATES LESS THAN OR EQUAL TO 1/4-INCH-THICK SHALL BE MAGNETIC PARTICLE TESTED. REDUCTION IN TESTING MAY BE MADE IN ACCORDANCE WITH THE BUILDING CODE WITH APPROVAL OF THE

K. A RUN-OFF TAB SHALL BE USED AT ALL BEVEL AND FULL PENETRATION WELDS. RUN-OFF TABS SHALL BE REMOVED BY NEAT CUTS AFTER WELD IS COMPLETED. GRIND SMOOTH WHERE REQUIRED BY DETAIL. WHERE REQUIRED BY DETAIL, REMOVE WELD BACKING BARS AND GRIND SMOOTH AFTER WELD IS COMPLETED.

N. STEEL USING COMPLETE JOINT PENETRATION GROOVE WELDS THAT FUSE THROUGH THE THICKNESS OF THE FLANGE OR WEB SHALL HAVE A MINIMUM CHARPY V-NOTCH IMPACT TESTING VALUE AS FOLLOWS:

1. ASTM A6/A6M HOT-ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING 2 INCHES AND BUILT-UP HEAVY SHAPES WITH PLATES EXCEEDING 2 INCHES IN THICKNESS: 20 FT-LB AT 70° FAHRENHEIT. 2. REGARDLESS OF THICKNESS, ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND

GIRDERS, BRACES, ETC): 20 FT-LB AT 70° FAHRENHEIT. 3. STEEL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50° FAHRENHEIT: 20 FT-LB AT SERVICE TEMPERATURE + 20° FAHRENHEIT; 40° FAHRENHEIT MAXIMUM. WELD METAL: 20 FT-LB AT -20° FAHRENHEIT AND 40 FT-LB AT 70° FAHRENHEIT.

M. WHERE NECESSARY, REMOVE GALVANIZING OR PRIMER PRIOR TO WELDING.

5. TESTING IS TO BE IN ACCORDANCE WITH ASTM A6/A6M, SUPPLEMENTARY REQUIREMENT S30, CHARPY V-NOTCH IMPACT TEST FOR STRUCTURAL SHAPES - ALTERNATE CORE LOCATION, AT ROLLED SHAPES AND ASTM A673 FOR PLATES, AT ANY PERMITTED LOCATIONS. WELD METAL SHALL BE TESTED IN ACCORDANCE WITH ASTM E23, STANDARD METHODS FOR NOTCHED BAR IMPACT TESTING OF METALLIC MATERIALS FOR WELD METAL.

STEEL JOISTS

A. MANUFACTURE AND ERECT ALL STRUCTURAL STEEL JOISTS, JOIST GIRDERS, AND BRIDGING IN ACCORDANCE WITH SPECIFICATION SECTION 052100, SPECIFICATIONS OF THE STEEL JOIST INSTITUTE AND ALL OSHA REQUIREMENTS.

B. JOIST MANUFACTURER SHALL DESIGN JOISTS PER LISTED DESIGN CRITERIA AND ANY ADDITIONAL LOADING SHOWN ON PLAN OR IN DETAILS. AT A MINIMUM, JOIST SHALL BE DESIGNED PER STEEL JOIST INSTITUTE (SJI) LOAD

C. JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES OR OTHER SPECIFICALLY LOCATED FRAMING MEMBERS UNLESS NOTED OTHERWISE.

D. STEEL JOISTS, JOIST GIRDERS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED FOR NET UPLIFT (NEGATIVE PRESSURE) AS INDICATED IN THE STRUCTURAL DRAWINGS. REFER TO THE APPLICABLE BUILDING CODE LISTED IN DESIGN CRITERIA FOR LOAD COMBINATIONS. 1. DEAD LOAD (MIN) = 8 PSF (FOR UPLIFT)

E. STEEL JOISTS, JOIST GIRDERS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED FOR ADDITIONAL DOWN FORCE RESULTING FROM WIND (POSITIVE PRESSURE) AS INDICATED IN THE STRUCTURAL DRAWINGS.

1. DEAD LOAD (MAXIMUM) = 20 PSF (SIMULTANEOUS WITH DOWNWARD WIND) F. JOIST MANUFACTURER SHALL DESIGN AND DETAIL ALL BRIDGING PER SJI REQUIREMENTS AND CLEARLY INDICATE LOCATION ON STEEL JOIST ERECTION DRAWINGS. 1. BRIDGING SHALL BE DESIGNED TO FULLY BRACE TOP CHORD OF JOISTS UNDER SERVICE LOADS FOR JOISTS NOT BRACED BY STEEL ROOF DECK.

2. BOTTOM CHORD OF ROOF JOISTS SHALL BE DESIGNED FOR NET UPLIFT (COMPONENTS & CLADDING) SHOWN ON DIAGRAM ON S-002C, UNLESS NOTED OTHERWISE.

. AN ALLOWABLE STRESS INCREASE FOR LOAD COMBINATIONS INCLUDING WIND IS NOT PERMITTED. H. JOIST MANUFACTURER SHALL CAMBER JOISTS PER SJI CRITERIA. I. PROVIDE MINIMUM BEARING PER SJI REQUIREMENTS AND CONNECT TO STEEL SUPPORT AS FOLLOWS:

1. K-SERIES: 3/16" x 1" FILLET WELD EACH SIDE 2. LH AND DLH SERIES: 1/4" x 2" FILLET WELD EACH SIDE

J. PROVIDE STANDARD DEPTH OF BEARING FOR ALL JOISTS AS SHOWN BELOW UNLESS NOTED IN DRAWINGS: 1. K-SERIES – 2 ½"

WHERE STEEL JOIST OR JOIST GIRDER SLOPE EXCEEDS 1/4 INCH PER FOOT, PROVIDE SLOPED BEARING AS

NOTED IN SLOPED SEAT REQUIREMENTS OF SJI. K. JOIST MANUFACTURER SHALL DESIGN AND DETAIL FIELD BOLTING FOR ERECTION PER SJI REQUIREMENTS.

STEEL DECK GENERAL REQUIREMENTS

UNLESS NOTED OTHERWISE.

A. ALL STEEL DECK SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE DIVISION 05

B. STEEL DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION),

THE CONTRACTOR SHALL COORDINATE SLAB/DECK OPENING SIZES AND LOCATIONS PER ARCHITECTURAL AND MEP CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE OPENING SUPPORT FRAMING AND/OR REINFORCEMENT AS REQUIRED PER TYPICAL DETAILS AND SUBMIT PROPOSED SLAB/DECK OPENINGS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

SHOP DRAWINGS SHALL BE SUBMITTED INDICATING: MATERIAL STRENGTH

SECTION PROPERTIES DECK GAGE, LAYOUT

4. FASTENER TYPE CONNECTION PATTERN

6. CLOSURE ANGLES E. THE CAPACITY OF THE DECK SHALL BE BASED ON CURRENT ICC-ES EVALUATION REPORTS.

STEEL ROOF DECK

A. STEEL ROOF DECK SHALL BE A MINIMUM YIELD STRENGTH OF 33 KSI, UNLESS NOTED OTHERWISE. ALL INTERIOR STEEL ROOF DECK SHALL CONFORM TO ASTM A1008; FACTORY PRIMED FOR PAINT. ALL EXPOSED STEEL ROOF DECK SHALL CONFORM TO ASTM A653 WITH G90 HOT-DIPPED GALVANIZATION, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.

STEEL ROOF DECK SHALL BE ATTACHED TO STEEL SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS AND TO COLD-FORMED METAL FRAMING WITH #12 SELF-DRILLING SCREWS UNLESS NOTED OTHERWISE. WHEN DECK H. SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION THICKNESS IS LESS THAN 0.028 INCHES, WELDS MUST BE MADE THROUGH MINIMUM 16 GAGE WELDING WASHERS. SPACING OF WELDS SHALL BE AS SPECIFIED IN THE DECK ATTACHMENT SCHEDULE. WHERE STEEL MEMBERS ARE PARALLEL TO THE DECK FLUTES AND AT THE SAME ELEVATION OF THE BOTTOM OF

THE DECK, ADJUST DECK LAYOUT AND WELD DECK TO STEEL WITH SAME WELDING AS REQUIRED FOR SIDE BOUNDARIES

ERECT STEEL DECK CLOSURES AND OTHER LIGHT GAGE MATERIAL REQUIRED TO PRODUCE A COMPLETED INSTALLATION. FLAT, RIDGE, AND VALLEY PLATES

UNLESS NOTED OTHERWISE, CONTRACTOR SHALL PROVIDE FLAT PLATES (20 GAGE MINIMUM) AT ALL LOCATIONS WHERE ROOF DECK CHANGES DIRECTION AND RIDGE OR VALLEY PLATES (20 GAGE MINIMUM) AT ALL LOCATIONS WHERE ROOF SLOPE EXCEEDS ½ INCH PER FOOT. DO NOT HANG CEILINGS, DUCTS, LIGHT FIXTURES, EQUIPMENT, OR OTHER ITEMS FROM THE ROOF DECK WITHOUT

PRIOR APPROVAL FROM THE DECK SUPPLIER AND REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF SEE ARCHITECTURAL DRAWINGS FOR FINAL ROOF SLOPES. WHERE STRUCTURAL FRAMING DOES NOT CREATE

THE SPECIFIED ROOF SLOPE, IT SHALL BE CREATED WITH RIGID INSULATION ABOVE THE DECK.

NON-COMPOSITE STEEL FORM DECK

STRUCTURAL DOCUMENTS.

A. NON-COMPOSITE STEEL FORM DECK SHALL BE A MINIMUM YIELD STRENGTH OF 60 KSI AND SHALL CONFORM TO

ASTM A653 WITH G90 HOT-DIPPED GALVANIZATION, UNLESS NOTED OTHERWISE. NON-COMPOSITE STEEL FORM DECK SHALL BE ATTACHED TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS. WHEN DECK THICKNESS IS LESS THAN 0.028 INCHES, WELDS MUST BE MADE THROUGH MINIMUM 16 GAGE WELDING WASHERS. SPACING OF WELDS SHALL BE AS FOLLOWS:

. AT BUTTED ENDS: AT 10 INCHES ON CENTER AT PERIMETER/EDGES OF BUILDING: AT 10 INCHES ON CENTER

3. INTERMEDIATE SUPPORTS: AT 10 INCHES ON CENTER

4. SIDE LAPS: FOR FORM DECK WITH SPANS 3'-6" OR GREATER, PROVIDE TWO CONNECTIONS PER SPAN. HEX HEAD SCREWS, SIZE #10, OR CRIMPING (BUTTON PUNCHING) MAY BE USED AT SIDE LAP CONNECTIONS.

COLD-FORMED STEEL

A. DESIGN, FABRICATION, AND ERECTION OF COLD-FORMED STEEL SHALL CONFORM TO AISI S100. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI S100.

TO THE BUILDING STRUCTURE. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED COLD-FORMED STEEL. D. ALL EXTERIOR COLD-FORMED STEEL AND ITS CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE DESIGNED PER 'DESIGN CRITERIA' AND 'COMPONENTS AND CLADDING WIND PRESSURES' LISTED IN THE

C. THE CONTRACTOR'S DELEGATED ENGINEER SHALL DESIGN ALL COLD-FORMED STEEL AND ITS CONNECTIONS

E. ALL INTERIOR COLD-FORMED STEEL AND ITS CONNECTIONS TO THE BUILDING STRUCTURE SHALL BE DESIGNED PER 'DESIGN CRITERIA' LISTED IN THE GENERAL STRUCTURAL NOTES AND A MINIMUM OF 5 PSF INTERNAL PRESSURE NORMAL TO THE STRONG AXIS OF FRAMING MEMBER IN ADDITION TO DEAD LOAD.

F. ALL EXTERIOR COLD-FORMED STEEL SHALL HAVE A MINIMUM G90 GALVANIZED COATING. ALL INTERIOR COLD-FORMED STEEL SHALL HAVE A MINIMUM G60 GALVANIZED COATING.

G. ALL STUDS SHALL BE DESIGNED TO A MINIMUM GAUGE OF 43 MILS. STUD SPACING SHALL NOT EXCEED 24" ON H. ALL COLD-FORMED STEEL, 54 MIL AND THICKER SHALL HAVE A MINIMUM YIELD STRENGTH (F_V) OF 50 KSI.

I. ALL WELDING SHALL MEET REQUIREMENTS OF AWS D1.3 AND THE AISI STANDARD. J. ALL SCREWS OR PINS SHALL BE NON-CORROSIVE NO. 8-18 (Ø = 0.125") OR LARGER, UNLESS NOTED

OTHERWISE. DO NOT USE STAINLESS STEEL OR COPPER-COATED FASTENERS. K. TRACKS SHALL BE THE SAME DEPTH AS STUDS OR JOISTS AND OF EQUAL OR THICKER GAUGE THAN STUDS OR JOISTS, UNLESS NOTED OTHERWISE. TRACKS SHALL BE CONNECTED IN ORDER TO SUPPORT STUDS OR

JOISTS AT 24" ON CENTER, MAXIMUM. STUDS AND JOISTS SHALL BE CONNECTED TO TRACKS AT EACH SIDE. L. INSTALLATION OF CURTAIN WALL FRAMING SHALL ACCOMMODATE VERTICAL DISPLACEMENT OF THE PRIMARY

M. DESIGN OF SLIP TRACKS SHALL CONFORM TO GUIDELINES ESTABLISHED IN STEEL STUD MANUFACTURER'S ASSOCIATION TECHNICAL NOTE NO. 1, PUBLISHED JANUARY 2000. N. PROVIDE THE STANDARD TRACK, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED AND AS NEEDED TO PROVIDE A

COMPLETE FRAMING SYSTEM. INSTALL THE FRAMING SYSTEM IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS NOTED OTHERWISE. O. MATCH FILLER METAL TO BASE METAL PER AWS D1.3 FOR WELDING STEEL STUDS. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS PROCEDURES. CONSULT MANUFACTURER FOR EQUIPMENT RECOMMENDATIONS AND PROPER ELECTRODE SELECTION. TOUCH UP WELDED AREAS WITH A ZINC RICH

P. STUD-TO-STUD CONNECTIONS SHALL BE A MINIMUM OF (4) #8 TEK SCREWS AT EACH CONNECTION, UNLESS

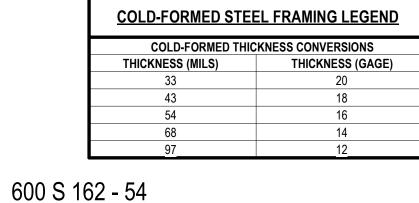
NOTED OTHERWISE. Q. RESISTANCE TO MINOR AXIS BENDING AND ROTATION SHALL BE PROVIDED BY GYPSUM BOARD, GYPSUM

SHEATHING, PLYWOOD, HORIZONTAL BRACING, OR CHANNEL SHAPED COLD-FORMED STEEL FRAMING BLOCKING. R. SHOP DRAWINGS, INCLUDING CALCULATIONS, SHALL BE SIGNED AND SEALED BY A DELEGATED ENGINEER AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD AND ARCHITECT FOR REVIEW.

S. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL FRAMING SIZES, CONNECTIONS, AND BRACING. IF FRAMING DEPTH IS NOT INDICATED IN THE CONTRACT DOCUMENTS, THE MOST ECONOMICAL MEMBER AND CONNECTION MEETING THE DESIGN CRITERIA SHALL BE PROVIDED. CALCULATIONS SHALL CLEARLY INDICATE DESIGN LOADING, FRAMING SIZE, SPACING, ASSUMPTIONS, AND

FORCES IMPOSED ONTO BUILDING STRUCTURE FROM CONNECTIONS. U. STEEL STUD MANUFACTURERS ASSOCIATION FOUR PART NOMENCLATURE IDENTIFIES MEMBER DEPTH, TYPE, FLANGE WIDTH AND GAUGE.

COLD-FORMED STEEL FRAMING LEGEND						
COLD-FORMED THICKNESS CONVERSIONS						
THICKNESS (MILS)	THICKNESS (GAGE)					
33	20					
43	18					
54	16					
68	14					
97	12					



- MATERIAL THICKNESS: (EXAMPLE: 0.054" = 54 MILS: 1 MIL =

1/1000 IN.) MATERIAL THICKNESS IS THE MINIMUM BASE

THICKNESS REPRESENTS 95% OF THE DESIGN THICKNESS

STEEL THICKNESS IN MILS. MINIMUM BASE STEEL

FLANGE WIDTH: (EXAMPLE: 1 5/8" = 1.625" = 162 x 1/100

STYLE: (EXAMPLE: STUD OR JOIST SECTION = S) THE

MEMBER DEPTH: (EXAMPLE: 6" = 600 x 1/100 INCH) ALL

'T' SECTIONS, THE MEMBER DEPTH IS THE INSIDE TO

MEMBER DEPTHS ARE TAKEN IN 1/100 INCHES. FOR ALL

SYSTEM ARE:

S = STUD OR JOIST SECTIONS

F = FURRING CHANNEL SECTIONS

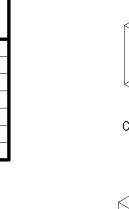
T = TRACK SECTIONS

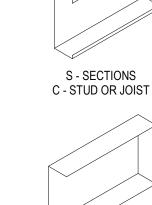
U = CHANNEL SECTIONS

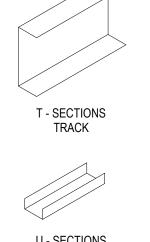
INSIDE DIMENSION

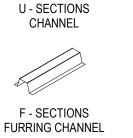
INCH) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES

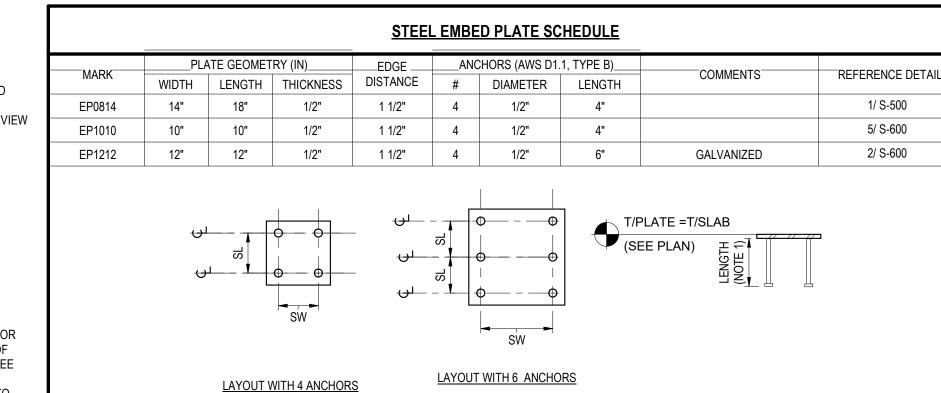
FOUR ALPHA CHARACTERS UTILIZED BY THE DESIGNATOR











I. ANCHOR LENGTH INDICATED IS FINAL LENGTH AFTER BURNOFF.

2. SEE PLAN FOR LOCATION OF KEYED SECTIONS & DETAILS REFERENCING EMBED PLATES AND ATTACHMENT OF CONNECTING ELEMENTS.

3. FOR LAYOUTS WITH MORE THAN 4 ANCHORS SEE KEYED SECTIONS/DETAILS FOR ANCHOR LAYOUTS.

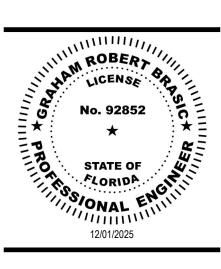
12/01/25 CONSTRUCTION

NO. DATE DESCRIPTION

08/22/25 DESIGN

DOCUMENTS

DEVELOPMENT





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PRELIMINARY DRAWINGS. NOT TO BE USED FOR RECORDING. **IMPLEMENTATION** REGULATORY APPROVAL, PERMITTING, OR

ISSUED FOR CONSTRUCTION

12/01/2025

JEZERINAC GROUP

1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND

Project No.:

Date:

S-004

STEEL

GENERAL

NOTES

C. STRUCTURAL INSPECTIONS SHALL BE PERFORMED BY THE SPECIAL INSPECTOR REGISTERED UNDER SECTION 471 OF THE FLORIDA STATUES AS AN ENGINEER.

D. THE OWNER SHALL EMPLOY THE SERVICES OF A SPECIAL INSPECTOR IN COMPLIANCE WITH THE PROVISIONS OF CHAPTER 553.79 OF THE FLORIDA STATUTES. E. THE SPECIAL INSPECTOR SHALL INSPECT THE FRAMING SHOWN ON THE STRUCTURAL DRAWINGS IN ACCORDANCE

WITH THIS PLAN TO VERIFY THAT THE WORK IS CONSTRUCTED IN GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR ACCEPTED VARIATIONS. 1. THE CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED DRAWINGS, PROJECT SPECIFICATIONS, AND RECORDED ADDENDA AND AMENDMENTS.

UNLESS NOTED OTHERWISE, WORK OF THIS PLAN EXCLUDES THE INSPECTION OF ELEMENTS THAT DO NOT CONTRIBUTE TO THE CAPACITY OF THE PRIMARY STRUCTURAL FRAME. THIS INCLUDES, BUT IS NOT LIMITED TO: RAILINGS, FIRE PROTECTION, ROOFING, GLAZED WINDOW SYSTEMS, MECHANICAL/ELECTRICAL SYSTEMS, ARCHITECTURAL COMPONENTS, SITE WORK, AND OSHA SAFETY PROVISIONS OR OTHER SAFETY STANDARDS THAT APPLY DURING THE CONSTRUCTION PERIOD. PRECAST CLADDING, EXTERIOR MASONRY WALLS, AND

SLAB-ON-GROUND ARE SPECIFICALLY INCLUDED. F. AT A MINIMUM, THE SPECIAL INSPECTIOR SHALL PERFORM THE MANDATORY STRUCTURAL INSPECTIONS AS REQUIRED UNDER THE PROVISIONS OF THE FLORIDA BUILDING CODE, IN ACCORDANCE WITH THE SCOPE AND SCHEDULE OUTLINED HEREIN.

G. THE SPECIAL INSPECTOR SHALL LOG EACH SITE VISIT DOCUMENTING THE PROGRESS OF THE WORK, THE

RELEVANT TESTING CONDUCTED, THE AREAS INSPECTED, AND ANY OTHER ELEMENTS PERTINENT TO THE WORK PROGRESS AT THE TIME OF THE INSPECTION. THE LOG RECORD SHALL REMAIN ON SITE AND ACCESSIBLE AT ANY

H. DAILY SIGNED AND SEALED FIELD REPORTS SHALL BE SUBMITTED ON A WEEKLY BASIS TO THE ENFORCING AGENCY, ARCHITECT OR STRUCTURAL ENGINEER OF RECORD, AND OWNER.

THE SPECIAL INSPECTOR SHALL NOT MAKE DESIGN DECISIONS, DIRECT THE CONTRACTOR'S WORK, NOR BE

RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS. J. THE SPECIAL INSPECTOR MAY SEND A FULL-TIME COLLEAGUE AS HIS AUTHORIZED REPRESENTATIVE TO THE PROJECT, BUT THAT PERSON SHALL BE KNOWLEDGEABLE AND HAVE A COLLEGE DEGREE IN CIVIL OR STRUCTURAL

CONTRACTOR RESPONSIBILITIES

A. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR WITH AN OFFICE AT THE CONSTRUCTION SITE THAT INCLUDES, AT MINIMUM, A DESK, CHAIR, PLAN TABLE, PLAN RACK, INTERNET ACCESS, AND JANITORIAL SERVICES IN

B. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR WITH AN UPDATED COPY OF ALL PERMIT DOCUMENTS, REVIEWED AND APPROVED SHOP DRAWING SUBMITTALS, TEST REPORTS, AND OTHER ITEMS WITH THE LATEST INFORMATION IN A TIMELY MANNER.

C. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS NOTICE TO THE SPECIAL INSPECTOR PRIOR TO THE NEED FOR ANY INSPECTION ON SITE.

D. THE CONTRACTOR SHALL COOPERATE AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES AND SHALL PROVIDE HIM FREE ACCESS TO THE WORK AT ALL TIMES. E. THE PRESENCE OF THE SPECIAL INSPECTOR DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO

COMPLY WITH CONTRACT DOCUMENTS. THE CONTRACTOR HAS THE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS AND THE COSTS OF RECTIFYING THOSE DEVIATIONS. F. THE CONTRACTOR MAY CORRECT WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS OR MAY ISSUE A

REQUEST TO THE DESIGN PROFESSIONAL OF ACCEPTANCE OF THE DEVIATION. 6. CONSTRUCTION PERFORMED WITHOUT INSPECTION MAY REQUIRE TESTING OR MAY NEED TO BE REMOVED AS

DETERMINED BY THE STRUCTURAL ENGINEER OR ARCHITECT OF RECORD. H. THE CONTRACTOR'S SHORING ENGINEER SHALL SUPERVISE, INSPECT, AND CERTIFY THE INSTALLATION OF ALL SHORING AND RE-SHORING PER APPROVED SHOP DRAWINGS. THE SHORING ENGINEER SHALL PROVIDE A SIGNED AND SEALED INSPECTION CERTIFICATION TO THE SPECIAL INSPECTOR PRIOR TO ALL CONCRETE POURS.

FEE OWNER RESPONSIBILITIES

A. THE FEE OWNER SHALL RETAIN A GEOTECHNICAL ENGINEER TO PROVIDE INSPECTION SERVICES FOR MONITORING THE PREPARATION OF THE FOUNDATION BEARING SURFACE AND PILE FOUNDATION ELEMENTS.

B. THE FEE OWNER SHALL RETAIN AN INDEPENDENT TESTING LABORATORY FOR MATERIAL SAMPLING AND TESTING SERVICES REQUIRED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. THE FEE OWNER SHALL ARRANGE AND ENSURE THAT ALL NECESSARY UPDATED CONSTRUCTION DOCUMENTS

WITH THE LATEST INFORMATION, APPROVED SHOP DRAWINGS, LATEST SKETCHES, AND ANY OTHER TYPE OF CORRESPONDENCE WHICH MAY AFFECT THE INSPECTIONS BE FURNISHED TO THE SPECIAL INSPECTOR IN A TIMELY MANNER.

D. THE FEE OWNER SHALL ENSURE THAT THE CONTRACTOR PROVIDES SHOP DRAWINGS FOR ALL PRECAST STRUCTURAL COMPONENTS. THESE SHOP DRAWINGS MUST BE DESIGNED, SIGNED AND SEALED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER AND HAVE BEEN REVIEWED AND STAMPED BY THE ENGINEER OF RECORD.

SPECIAL INSPECTOR RESPONSIBILITIES

A. PRIOR TO STARTING WITH THEIR WORK, THE SPECIAL INSPECTOR, AND THEIR AUTHORIZED REPRESENTATIVE, IF APPLICABLE. SHALL ATTEND A PRE-CONSTRUCTION MEETING FOR THE PURPOSE OF BECOMING FAMILIAR WITH THE SPECIFIC STRUCTURAL COMPONENTS AND SYSTEM WHICH THEY WILL BE RESPONSIBLE FOR INSPECTING. B. THE SPECIAL INSPECTOR SHALL INSPECT ALL STRUCTURAL SYSTEMS NOTED BELOW AND IN COMPLIANCE WITH

THOSE LISTED UNDER THE "GENERAL" HEADING. C. THE SPECIAL INSPECTOR SHALL VISIT THE SITE AT SUCH FREQUENCY TO SATISFY THEMSELVES THAT THEIR

REPRESENTATIVE'S INSPECTIONS COMPLY WITH THIS PLAN. D. THE SPECIAL INSPECTOR SHALL DEDICATE THEIR ENTIRE TIME ON-SITE TO THE REQUIREMENTS OF THIS PLAN AND SHALL NOT PERFORM OTHER WORK, SUCH AS MATERIAL TESTING.

REPORTING

A. THE SPECIAL INSPECTOR SHALL RECORD PROGRESS, WORKING CONDITIONS, OBSERVATIONS, TESTING, DEVIATIONS FROM THE CONTRACT DOCUMENTS, AND ANY REQUIRED CORRECTIVE ACTION. THEY SHALL RETAIN

THE RECORDS FOR A MINIMUM OF 7 YEARS AFTER COMPLETION OF THE PROJECT. B. THE SPECIAL INSPECTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTOR IN PERSON, AND THE ARCHITECT AND STRUCTURAL ENGINEER BY TELEPHONE, OF MATERIALS, TESTS, EQUIPMENT, WORKMANSHIP, OR CONSTRUCTION

1. DOES NOT CONFORM TO THE CONTRACT DOCUMENTS, OR IS NOT INSPECTED OR TESTED AND CANNOT BE INSPECTED OR TESTED IN PLACE.

C. THE SPECIAL INSPECTOR SHALL THEN IMMEDIATELY ISSUE THOSE EXCEPTIONS IN WRITING TO THOSE LISTED ABOVE AND ATTACH A COPY TO THE DAILY INSPECTION REPORT. D. THE SPECIAL INSPECTOR SHALL KEEP AN EXCEPTIONS FILE AND REVIEW IT ON A DAILY BASIS, UPDATING AS EXCEPTIONS ARE RECTIFIED. IF ANY EXCEPTIONS ARE NOT RESOLVED IN A TIMELY MANNER, THE SPECIAL

INSPECTOR SHALL ISSUE A NONCOMPLIANCE NOTICE TO THE CONTRACTOR AND SHALL COPY THE ENFORCING AGENCY, OWNER'S REPRESENTATIVE, ARCHITECT, AND STRUCTURAL ENGINEER. E. AFTER EACH INSPECTION, THE INSPECTOR SHALL WRITE AND SIGN AN INSPECTION REPORT. THE REPORT SHALL INCLUDE THE FOLLOWING:

1. THE NAME AND LOCATION OF PROJECT; NAME OF INSPECTOR; PERMIT NUMBER; DATE; WORKING CONDITIONS, INCLUDING WEATHER AND TEMPERATURE: AND TYPE AND LOCATION OF WORK BEING PERFORMED. DETAILS OF EACH INSPECTION, INCLUDING THE PRESENCE AND ACTIVITIES OF THE TESTING AGENCY. NOTE DEFICIENCIES IN THE WORK AND ANY UNUSUAL CIRCUMSTANCES AFFECTING THE PERFORMANCE OF

WORK, INCLUDING CHANGES IN MATERIALS OR WORK SEQUENCE. PLACING EMPHASIS ON RECURRING

4. IDENTIFY CORRECTIONS TO DEFICIENCIES LISTED IN PREVIOUS REPORTS. F. SINCE THE SPECIAL INSPECTOR DOES NOT CERTIFY THAT THE CONTRACT DOCUMENTS ARE IN COMPLIANCE WITH THE GOVERNING CODES, ALL STATEMENTS ISSUED SHALL REFER TO WHETHER OR NOT COMPLETED WORK IS IN

SUBSTANTIAL ACCORDANCE WITH THE CONTRACT DOCUMENTS. G. THE REPORT SHALL ALSO COMMENT ON THE FOLLOWING, WHEN APPLICABLE: TEST REPORTS THAT DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.

THE GEOTECHNICAL ENGINEER'S INSPECTION REPORTS. SHORING AND RESHORING ENGINEER'S INSPECTION REPORTS

CHANGES MADE IN THE FIELD.

H. THE REPORT SHALL ALSO INCLUDE PHOTOGRAPHS, WHEN APPROPRIATE I. THE SPECIAL INSPECTOR SHALL SUBMIT THE REPORTS TO THE ENFORCING AGENCY, OWNER'S REPRESENTATIVE, ARCHITECT, AND STRUCTURAL ENGINEER UNDER A SIGNED AND SEALED COVER LETTER ON A WEEKLY BASIS OR AS DIRECTED BY THE ENFORCING AGENCY.

J. THE SPECIAL INSPECTOR SHALL POST AT THE JOBSITE A LOG SUMMARIZING ALL INSPECTIONS. THE HEADER SHALL CONTAIN, AT A MINIMUM, THE PROJECT NAME AND LOCATION: PERMIT NUMBER: AND THE NAME OF THE SPECIAL INSPECTOR, OWNER, AND CONTRACTOR. THE INSPECTOR SHALL WRITE AN ENTRY AFTER EACH INSPECTION THAT INCLUDES THE DATE, CONSTRUCTION PHASE, WORK DESCRIPTION, COMMENTS, HIS SIGNATURE, AND WHETHER THE WORK INSPECTED IS APPROVED OR REJECTED.

K. UPON COMPLETION OF THE BUILDING AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE SPECIAL INSPECTOR SHALL ISSUE A SIGNED AND SEALED STATEMENT ATTESTING THAT THE PART OF THE PROJECT UNDER THEIR INSPECTION RESPONSIBILITIES HAS BEEN CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 553.79(7) OF THE FLORIDA STATUTES AND SHALL BE SUBMITTED TO THE ENFORCING AGENCY, OWNER, ARCHITECT, AND STRUCTURAL ENGINEER.

SOIL OR FOUNDATION PREPARATION

A. THE GEOTECHNICAL ENGINEER OF RECORD FOR THE PROJECT SHALL BE RETAINED BY THE FEE OWNER TO MONITOR THE SITE PREPARATION ACTIVITIES, FOUNDATION BEARING SURFACES, AND PILE FOUNDATION

B. THE GEOTECHNICAL ENGINEER SHALL PROVIDE THE SPECIAL INSPECTOR WITH DAILY REPORTS AND A SUMMARY REPORT INDICATING THAT THE FOUNDATION BEARING SURFACE IS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT, SUCH THAT THE FOUNDATION FOR THE PROJECT WILL FUNCTION AS INTENDED

THE INDEPENDENT TESTING AGENCY RETAINED BY THE FEE OWNER SHALL MONITOR THE BACKFILL AND COMPACTION OPERATIONS AND PROVIDE THE SPECIAL INSPECTOR WITH REPORTS DOCUMENTING THAT THE

OPERATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND THE CONTRACT

D. ALL INSPECTION AND TESTING REPORTS PROVIDED TO THE SPECIAL INSPECTOR SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN FLORIDA.

STRUCTURAL CAST-IN-PLACE CONCRETE

B. THE SPECIAL INSPECTOR SHALL:

A. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO THE PLACEMENT OF ANY STRUCTURAL CONCRETE.

1. INSPECT SHORING, RESHORING, AND FORMWORK AS FOLLOWS: a. VERIFY THAT THE DELEGATED SHORING AND RESHORING ENGINEER HAS CONFIRMED THAT THE SHORING AND RESHORING ARE IN COMPLIANCE WITH THEIR SHOP DRAWINGS (REFER TO SECTION 1.5F IN THE SPECIAL INSPECTION PLAN). ADDITIONALLY, THE SPECIAL INSPECTOR SHALL SPOT CHECK THE SHORING AND RESHORING FOR CONFORMANCE WITH THE SHORING AND RESHORING PLANS SUBMITTED TO THE ENFORCING AGENCY.

b. SPOT CHECK SHORING AND RESHORING LAYOUT, ALIGNMENT, AND MATERIALS. c. CONFIRM THAT THE TIMING OF SHORING, RESHORING, AND FORMWORK PROCEDURES AND REMOVAL COMPLY WITH THE CONTRACT DOCUMENTS AND THE SHORING AND RESHORING DRAWINGS. WHERE

. VERIFY THAT SLAB THICKNESS IS MAINTAINED AT SLAB DEPRESSIONS AND STEPS.

INSPECT STEEL REINFORCEMENT PER THE STRUCTURAL DRAWINGS, SUPPLEMENTED BY THE APPROVED SHOP DRAWINGS, TO VERIFY:

APPROPRIATE, VERIFY THAT CONCRETE TEST CYLINDER STRENGTH IS ADEQUATE PRIOR TO FORM

STEEL REINFORCEMENT GRADE, SIZE, QUANTITY, CONFIGURATION, AND SPACING. MINIMUM CLEARANCE REQUIREMENTS FROM CONCRETE SURFACES.

STEEL REINFORCEMENT IS ADEQUATELY SUPPORTED AND TIED TO RESIST SHIFTING DURING CONCRETE POUR AND THAT CONCRETE COVER IS PROPER. 4. HOOKED REINFORCEMENT IS PLACED PROPERLY.

EMBEDMENT LENGTHS, SPLICE LOCATIONS, AND LAP SPLICE LENGTHS ARE ACCEPTABLE MECHANICAL COUPLERS ARE APPROVED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. PROPER TIE SPACING, PARTICULARLY AT BEAM/COLUMN INTERSECTIONS.

STEEL REINFORCEMENT LAYERS IN SLABS AND WALLS ARE PROPER. 9. ALL OPENINGS LARGER THAN 12" AND NOT SHOWN ON THE CONTRACT DOCUMENTS HAVE BEEN REPORTED TO THE STRUCTURAL ENGINEER OF RECORD. CHECK PLACEMENT OF ADDITIONAL REINFORCEMENT AROUND OPENINGS. OPENINGS THROUGH BEAMS ARE PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL

ENGINEER OF RECORD. 10. IN ONE-WAY SLABS, THAT TEMPERATURE STEEL IS CORRECT, INCLUDING PROPER LAYERING. 11. IN TWO-WAY SLABS, THAT:

a. THE COLUMN STRIP TOP BARS HAVE A UNIFORM SPACING AND ARE NOT BUNDLED TOGETHER. b. THE ADDED TOP BARS ARE PLACED IN THE VICINITY OF THE COLUMN. c. THE TOP AND BOTTOM HOOKED BARS HAVE BEEN PLACED AS REQUIRED, ESPECIALLY AT SLAB EDGES.

12. THE POSITION OF BARS AT SLAB OFFSETS AND DEPRESSIONS. 13. ALL STEEL REINFORCEMENT SURFACES ARE FREE OF EXCESS RUST OR OTHER COATING THAT MAY AFFECT THE BONDING CAPACITY. VERIFY THAT EXPANSION JOINT MATERIAL, DOVETAIL SLOTS, ANCHORS, EMBEDDED CONDUITS, AND LOAD

CARRYING EMBEDDED ITEMS ARE PROPERLY POSITIONED AND SECURED TO RESIST DISPLACEMENT DURING CONCRETE PLACEMENT. RELOCATION OF, OR MODIFICATION TO, STRUCTURAL ITEMS DUE TO CONFLICTS WITH REINFORCEMENT IS PROHIBITED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. INSPECT CONSTRUCTION JOINTS AS FOLLOWS:

VERIFY THAT DOWELS, KEYWAYS, AND BULKHEADS COMPLY WITH THE CONTRACT DOCUMENTS. CONFIRM THAT BEAM AND SLAB CONSTRUCTION JOINT LOCATIONS COMPLY WITH THE CONTRACTOR'S CONSTRUCTION JOINT PLAN SUBMITTED TO THE ARCHITECT.

G. VERIFY THAT SAWCUT JOINTS ARE: PROVIDED ONLY WHERE INDICATED.

THE PROPER DEPTH, SPACING, AND LOCATION.

PROVIDED IN THE TIME FRAME INDICATED IN THE CONTRACT DOCUMENTS. H. CHECK THAT ALL FOREIGN MATERIAL IS REMOVED FROM FORMS OR EXCAVATIONS PRIOR TO CONCRETE

BE ON SITE AT THE START OF EACH CONCRETE POUR REQUIRING INSPECTION BY THIS PLAN. AND SHALL REMAIN ON SITE FOR A SUFFICIENT TIME TO CONFIRM THAT CONCRETING PRACTICES ARE PROPER AND COMPLY WITH ACI 301, ASTM C94, AND OTHER RECOGNIZED INDUSTRY STANDARDS INCLUDING THE FOLLOWING:

ALL STEEL REINFORCEMENT CORRECTIONS ARE COMPLETED PRIOR TO CONCRETE PLACEMENT. 2. THE FIRST CONCRETE TRUCK OF EACH TYPE OF CONCRETE POUR HAS THE PROPER CONCRETE MIX NUMBER AND STRENGTH AND THAT THE BATCH TIME LEAVES SUFFICIENT TIME TO POUR ALL CONCRETE FROM THE

TRUCK. SPOT CHECK FUTURE TRUCKS. 3. THE TESTING AGENCY IS ON SITE FOR EACH TYPE OF CONCRETE POUR TO TEST CONCRETE AS REQUIRED BY THE CONTRACT DOCUMENTS. THIS SHALL INCLUDE MIXING TIME, TEMPERATURE, SLUMP, AND AIR CONTENT, REPORTING ANY CONCRETE DELIVERED THAT IS NOT AS SPECIFIED. ENSURE THAT ADDITION OF WATER TO

THE CONCRETE MIX IN THE FIELD COMPLIES WITH THE GUIDELINES IN THE CONTRACT DOCUMENTS. 4. CONCRETE IS BEING CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY RECOGNIZED INDUSTRY STANDARDS. CONCRETE IS BEING PLACED CONTINUOUSLY, OR IN A MANNER TO AVOID PLACING CONCRETE

AGAINST HARDENED CONCRETE WHICH WOULD RESULT IN THE FORMATION OF SEAMS OR PLANES OF 5. CONCRETE IS BEING CONSOLIDATED AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS, AND INTO CORNERS OF FORMS ELIMINATING AIR OR STONE POCKETS THAT MAY CAUSE

HONEYCOMBING, PITTING, OR PLANES OF WEAKNESS. SPOT CHECK THAT CURING PROCEDURES COMPLY WITH THE CONTRACT DOCUMENTS, ACI 308, 'STANDARD PRACTICE FOR CURING CONCRETE', AND OTHER RECOGNIZED INDUSTRY STANDARDS. 7. FOLLOWING FORMWORK REMOVAL, SPOT CHECK CONCRETE SURFACES FOR HONEYCOMBING AND VOIDS.

INSPECT EXPANSION ANCHORS AND CHEMICAL ADHESIVE FOR ANCHORING STEEL REINFORCEMENT AND THREADED RODS USED TO SUPPORT WORK DESCRIBED IN THIS PLAN AS FOLLOWS: 1. VERIFY HOLE DIAMETER, DEPTH, LOCATION, SPACING, EDGE DISTANCE, AND CONFIRM THAT THE HOLE HAS BEEN THOROUGHLY CLEANED AS REQUIRED BY MANUFACTURER. VERIFY THAT EXPANSION ANCHORS ARE PROPERLY TIGHTENED.

VERIFY THAT THE EPOXY TYPE IS PROPER FOR THE APPLICATION, SUCH AS PASTE FOR HORIZONTAL HOLES. VERIFY THAT EPOXY MIXING AND INSTALLATION COMPLIES WITH MANUFACTURER'S REQUIREMENTS.

SHALLOW FOUNDATIONS

BE DISPLACED DURING THE CONCRETE POUR.

A. THE SPECIAL INSPECTOR SHALL REVIEW THE SIZE AND CONFIGURATION OF FOUNDATIONS FOR COMPLIANCE WITH

THE CONTRACT DOCUMENTS. B. THE SPECIAL INSPECTOR SHALL REVIEW THE SIZE, PLACEMENT, AND CLEARANCES OF REINFORCEMENT FOR

COMPLIANCE WITH THE CONTRACT DOCUMENTS. C. THE SPECIAL INSPECTOR SHALL REVIEW DOWEL REINFORCEMENT AND DOWEL LENGTHS SUCH THAT LAP SPLICES

WILL BE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

D. THE SPECIAL INSPECTOR SHALL VERIFY THAT REINFORCEMENT IS SUPPORTED AND TIED SUCH THAT IT WILL NOT

MASONRY

A. THE SPECIAL INSPECTOR SHALL INSPECT ALL REINFORCED MASONRY PER ACI 530, ACI 530.1 AND AS FOLLOWS: SPOT CHECK THAT MATERIALS ARE PROPERLY STORED.

WORKMANSHIP. UNIT SIZE, STRENGTH, AND WEIGHT.

MORTAR AND GROUT TYPE, MIXING AND PLACEMENT. 5. PLACEMENT OF STEEL REINFORCEMENT, JOINT REINFORCEMENT, INSERTS, ANCHORS, AND OTHER

6. CHECK CLEANOUT AREAS TO CONFIRM THAT CELLS TO BE REINFORCED ARE CLEAN AND FREE OF ALL FOREIGN MATERIAL AND THAT VERTICAL BARS ARE EACH TIED TO A DOWEL. CONTRACTION JOINT CONSTRUCTION.

8. DURING GROUTING, VERIFY THAT ALL CELLS ARE FILLED SOLID AND THAT GROUT IS CONSOLIDATED AS REQUIRED BY THE CONTRACT DOCUMENTS. IF IN DOUBT AFTER COMPLETION, CHECK USING A HAMMER.

9. CHECK TIE BEAM AND TIE COLUMN SIZE, SPACING, AND REINFORCEMENT. CHECK CONNECTION OF SIDE OR TOP OF WALL TO SUPPORTING ELEMENTS

POST-INSTALLED ANCHORS

A. THE STRUCTURAL INSPECTOR SHALL 1. PERFORM SPECIAL INSPECTIONS FOR ALL POST-INSTALLED ANCHORS PER THE PRODUCT MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, APPLICABLE EVALUATION REPORTS, AND ANY ADDITIONAL REQUIREMENTS INVOKED WITHIN THE CONSTRUCTION DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO,

ALTERNATE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE STRUCTURAL ENGINEER OF

b. ANCHOR PARAMETERS: TYPE AND SPECIFIC PRODUCT

 DIMENSIONS (DIAMETER & LENGTH) MATERIAL/COATING ADHESIVE ANCHOR EXPIRATION DATE

 ANCHOR OR THREAD DAMAGE PRESENCE OF SUBSTANCES THAT MAY INTERFER WITH BOND (DUST, MUD, OIL, LOOSE RUST)

c. PLACEMENT: RELATIVE TO FIXTURE GEOMETRY

 RELATIVE TO OTHER ANCHORS (SPACING) RELATIVE TO SUBSTRATE, CONFIRMING MINIMUM EDGE DISTANCES COMMUNICATED WITHIN THE

a. ANCHORS MATCH INTENDED MANUFACTURER AND PRODUCT FOR EACH APPLICATION, OR APPROVED

CONTRACT DOCUMENTS. RELATIVE TO REBAR AND EMBEDMENTS WITHIN THE SUBSTRATE, CONFIRMING THAT NONDESTRUCTIVE TESTING (NDT) HAS BEEN PERFORMED ACCORDINGLY TO CONFIRM THAT DRILLING AND ANCHOR INSTALLATION DOES NOT DAMAGE EXISTING ELEMENTS. AGE OF SUBSTRATE MATERIAL (21 DAYS MINIMUM FROM CONCRETE PLACEMENT FOR ADHESIVE ANCHOR INSTALLATION)

 MINIMUM CONCRETE THICKNESS OF SUBSTRATE TO RECEIVE POST-INSTALLED ANCHORS. d. HOLES/DRILLING: DRILLING METHOD (BIT TYPE AND DIAMETER)

PRESENCE OF ADJACENT EXISTING/ABANDONED HOLES

 HOLE DEPTH RELATIVE TO MANUFACTURER REQUIREMENTS FOR SPECIFIED NOMINAL EMBEDMENT CLEANING PROCEDURES

 HOLE PROTECTION FOR CONTAMINANTS, DEBRIS, OR WATER/MOISTURE • TIMING OF CLEANING IMMEDIATELY BEFORE ANCHOR INSTALLATION, RECLEANING AS NECESSARY. e. INSTALLATION AND SETTING:

 TEMPERATURE LIMITS SPECIFIED TORQUE AND NUMBER OF FULL TURNS REQUIRED TO ACHIEVE TORQUE. NOTIFY STRUCTURAL ENGINEER OF RECORD WHEN ANCHORS FAIL TO SET WITHIN MAXIMUM PERMITTED NUMBER OF TURNS PER MANUFACTURER.

 PROJECTION LENGTH AND REQUIRED EMBEDMENT. ADHESIVE QUANTITY DISPENSED FOR HOLE DEPTH TO CONFIRM AIR BUBBLES/VOIDS ARE NOT. APPROPRIATE ADHESIVE MIXING AND METERING PROCEDURES AND EQUIPMENT, INCLUDING MANUFACTURER REQUIREMENTS SPECIAL EQUIPMENT IF APPLICABLE FOR LONG HOLES AND HORIZONTAL/OVERHEAD APPLICATIONS REVIEW FOR SYMPTOMS OF AIR BUBBLES WITHIN ADHESIVE (SPRING BACK OR POPPING SOUNDS)

DURING ANCHOR INSTALLATION) WASHER CONDITIONS AND FLUSH CONDITION WITH FIXTURE 2. CONFIRM THAT ADHESIVE ANCHOR INSTALLERS HAVE THE NECESSARY CERTIFICATIONS (ACI/CRSI ADHESIVE

ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT). PERFORM CONTINUOUS SPECIAL INSPECTIONS WHEN THERE IS A CHANGE IN PERSONNEL PERFORMING ANCHOR INSTALLATION.

4. PERFORM CONTINUOUS INSPECTIONS FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY, UPWARDLY INCLINED, OR OVERHEAD. BE FAMILIAR WITH PROOF TESTING REQUIREMENTS AND THE SUBMITTED ROOF TESTING PLAN (BY THE

INDEPENDENT TESTING LABORATORY); SEE GENERAL NOTES UNDER "POST INSTALLED ANCHORS" a. VERIFY THAT FEE OWNER'S TESTING AGENCY HAS TESTED ALL REQUIRED ANCHORS PER THE APPROVED POST-INSTALLED ANCHOR TEST PLAN. b. VERIFY THAT ANY FAILED ANCHORS HAVE BEEN REPLACED.

c. VERIFY THAT THE TESTING AGENCY HAS SUBMITTED SIGNED AND SEALED TEST REPORTS TO THE STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL STEEL FRAMING

A. THE SPECIAL INSPECTOR SHALL 1. INSPECT ALL STRUCTURAL STEEL FRAMING AS REQUIRED BY THE CONTRACT DOCUMENTS. USE BOTH THE

CONTRACT DOCUMENTS AND THE SHOP DRAWINGS FOR ALL INSPECTIONS. VERIFY THAT ALL FIELD WELDERS ARE AWS CERTIFIED FOR THE TYPE OF WELDS BEING MADE. PROVIDE ALL INSPECTIONS REQUIRED BY THE CONTRACT DOCUMENTS. COMPLETE ALL INSPECTIONS AND VERIFY COMPLIANCE PRIOR TO CONCRETE PLACEMENT OR CONCEALMENT.

a. CHECK STRUCTURAL STEEL FRAMING FOR POSSIBLE DAMAGE DURING SHIPPING. b. CHECK STRUCTURAL STEEL FRAMING SIZES AND GRADES. c. SPOT CHECK MEMBER STRAIGHTNESS, FINISH, AND CAMBER. CONFIRMING THAT PAINT IS ONLY APPLIED ON APPROPRIATE SURFACES d. INSPECT SETTING OF ANCHOR BOLTS, EMBEDS, AND OTHER MISCELLANEOUS STRUCTURAL ITEMS FOR

SIZE, QUANTITY AND FINISH. CHECK THE INSTALLATION OF COLUMN BASE PLATES FOR PROPER LEVELING, GROUT TYPE, AND GROUT APPLICATION. e. INSPECT ALL FIELD CONNECTIONS AND SPOT CHECK SHOP CONNECTIONS. VERIFY CONNECTION MATERIAL SIZES, CONFIGURATIONS, AND FIT-UP.

• VISUALLY EXAMINE ALL FIELD WELDS AND SPOT CHECK ALL SHOP WELDS FOR TYPE, SIZE, LENGTH, AND QUALITY. VERIFY THAT SPECIFIED TESTING IS PERFORMED BY THE TESTING AGENCY. VERIFY THAT WELDS ARE CLEAN AND FREE FROM SLAG AND THAT RUST PROTECTION HAS BEEN APPLIED PER THE SPECIFICATIONS.

• VERIFY THE TYPE, SIZE, AND QUANTITY OF BOLTS IN ALL BOLTED CONNECTIONS. CHECK THAT BOLTS ARE CLEAN AND LUBRICATED, HAVE PROPER WASHERS, AND CONFORM TO THE SPECIFICATIONS. ENSURE BOLT HOLES ARE THE SPECIFIED TYPE AND SIZE. SPOT CHECK THE BOLT TIGHTENING SEQUENCE. VISUALLY VERIFY PROPER DEGREE OF BOLT TIGHTENING, PARTICULARLY OF ALL SLIP-CRITICAL BOLTS. CHECK 10% OF LOAD INDICATOR WASHERS WITH A FEELER GAUGE.

CHECK HEADED STUD ANCHORS FOR SIZE, LENGTH, SPACING, AND WELDING AS REQUIRED BY THE CONTRACT DOCUMENTS. VERIFY THAT SHEAR CONNECTORS ARE TESTED BY TESTING LABORATORY. 3. CHECK ALL STEEL DECKS PER SDI SPECIFICATIONS AND AS FOLLOWS: a. DECK TYPE, SIZE, GAGE, FINISH, ACCESSORIES, AND REINFORCEMENT AROUND OPENINGS.

WELD SIZE, SHAPE, QUALITY, RUST PROTECTION, AND WELD WASHERS WHERE APPLICABLE.

b. SPACING AND TYPE OF ALL CONNECTIONS. c. WELDING PROCEDURES.

e. SCREW SIZE, TYPE, AND FINISH AND OTHER CONNECTION TO SUPPORTS.



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12/01/2025

12/01/25 CONSTRUCTION

NO. DATE DESCRIPTION

DOCUMENTS

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San Antonio, TX 78215 PH: 770 916 2220 FAX: 770 916 2299

2632 Broadway Street

Suite 201, South Building

www.thw.com

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SPECIAL

INSPECTIONS

PLAN

JEZERINAC

1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

GROUP

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND

MATERIAL SPECIFICATIONS. 12/1/2025 6:01:56 PM

Date:

• SLAB SLOPES, DRAINS, STEPS, PENETRATIONS, FINISHES, AND ANY OTHER ADDITIONAL INFORMATION.

3D AXONOMETRIC - FOUNDATION (FOR

REFERENCE ONLY)

S-121

VERTICAL

12" 9' - 0" 1' - 0" #5 @ 12" OC #5 @ 12" OC

REINFORCEMENT

6x6 - W1.4xW1.4

RETAINING WALL FOOTING SCHEDULE

MARK THICKNESS WIDTH TOE LENGTH TRANSVERSE LONGITUDINAL

GEOMETRY

THICKNESS

SLAB-ON-GROUND SCHEDULE

1' - 0" #6 @ 12" OC EACH FACE #5 @ 12" OC EACH FACE

FOOTING REINFORCEMENT

7. DENOTES STEP IN FOUNDATION, SEE 4/S-300.

10. DENOTES SHOWER DEPRESSION.

8. DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #X AT XX" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

9. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **#X** AT **XX"** OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

FOUNDATION

PLAN

GROUP

1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401

T 561.622.8585

www.jezerinacgroup.com

CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

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08/22/25 DESIGN DEVELOPMENT

04/07/25 SCHEMATIC DESIGN

207' - 8"

30' - 0"

30' - 0"

30' - 0"

4.9 5

18' - 0"

29' - 8 7/8"

10 7/8" 4' - 4 7/8"

22' - 0 1/4"

APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS. 12/1/2025 6:02:04 PM

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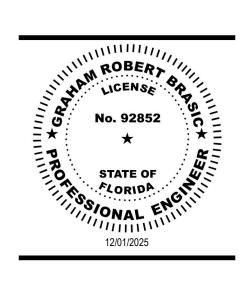
08/22/25 DESIGN DEVELOPMENT

11

11' - 8"

30' - 0"

04/07/25 SCHEMATIC DESIGN
NO. DATE DESCRIPTION





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SECOND FLOOR FRAMING

PLAN CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

7. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **S-12X-R**. 8. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET <u>S-12X-PT</u>.

REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

AND INSERTS REQUIRED TO BE CAST IN THE SLAB.

4. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #5 AT 24" OC VERTICAL

• ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH

6. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS. SLEEVES,

SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN)

EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL

SLEEVES AND PENETRATIONS INTERRUPTING BANDED LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE

STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF

ARCHITECTURAL DRAWINGS AND REPORT ANY DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE

9. DENOTES SHOWER DEPRESSIONS.

5. SEE ARCHITECTURAL DRAWINGS FOR:

ENGINEER OF RECORD.

ALL SLOPED SLAB AREAS.

- 7. PROVIDE EQUIPMENT SUPPORT FRAMING AT ROOFTOP EQUIPMENT. UNIT SUPPORT CURBS/FRAMES AND THEIR CONNECTION TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY OTHERS, UNLESS SPECIFICALLY
- 8. GENERAL CONTRACTOR SHALL COORDINATE OPEN WEB STEEL JOIST BRIDGING AND BRACING REQUIREMENTS
- PER OPEN WEB STEEL JOIST SUPPLIER. 9. HB: DENOTES HOIST BEAM BY ELEVATOR MANUFACTURER INSTALLED BY GENERAL CONTRACTOR. ELEVATION
- 10. STEEL CONNECTION DESIGN HAS BEEN DELEGATED TO BE SELECTED/COMPLETED BY STRUCTURAL STEEL FABRICATOR (SEE STRUCTURAL STEEL GENERAL NOTES & PROJECT SPECIFICATIONS). REACTIONS SHOWN ARE IN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) FOR CONNECTION DESIGN ARE NOTED
- AS FOLLOWS: :DENOTES MOMENT CONNECTION. M = #K-FT DESIGN MOMENT CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS.
 - DESIGN SHEAR CONNECTIONS FOR FORCES INDICATED. IF REACTION IS NOT SHOWN, DESIGN FOR 25 KIPS.

:DENOTES LATERAL BRACING. SEE DETAILS ON PLAN.

OF BEAM PER ELEVATOR MANUFACTURER.

S-122

3D AXONOMETRIC - SECOND FLOOR (FOR REFERENCE ONLY)

- 2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET S-003 AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
- 3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE S-33X SERIES.
- 4. TENDON LAYOUT NOTES:
- LINEWORK SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
- A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE. STRAIGHT LINE HORIZONTAL OFFETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH
- HORIZONTAL CURVE/SWEEP PER DETAIL. MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE
- PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE. TENDON DRAPE ELEVATION NOTES:

LINES) AS INDICATED ABOVE.

- # :DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS).
- AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED. TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON
- TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
- 6. TENDON FORCE NOTES: F = # K :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM. BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE
- F = # KLF :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED

UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE **JEZERINAC**

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SECOND FLOOR PT

PLAN

- SPLICE/DEVELOPMENT REQUIREMENTS.
- 3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- 4. ##SR-#(#-#) :DENOTES SHEAR STUD RAILS (SEE DETAILS AND SCHEDULE ON S-332).
- 5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:
- A. MAT REINFORCEMENT (SEE SLAB SCHEDULE). B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE S-331). BAR SPACING OVER WIDTH OR QUANTITY SHOWN ACI STANDARD 180° HOOK (ALL TOP BARS HOOKED AT EDGE-OF-SLAB EVEN WHEN NOT INDICATED) SOLID LINE DENOTES TOP BARS (OR TOP & BOTTOM)

DASHED LINE DENOTES BOTTOM BARS #B AT XX" OC SINGLE ARROW DENOTES EXTENT OF BAR PLACEMENT. DOUBLE ARROW DENOTES EXTENT TO CONTINUE UNTIL EDGE-OF-SLAB OR END-OF-ELEMENT (AS APPLICABLE)

C. TYPICAL NOMENCLATURE.

─**-** #T OR #B #: DENOTES QUANTITY OF BARS -T: DENOTES TOP BARS B: DENOTES BOTTOM BARS

D. REINFORCEMENT AT COLUMNS. CONCRETE COLUMN (SEE FRAMING PLAN) -BARS EACH WAY (SEE TYPICAL NOMENCLATURE) -

POST-TENSIONED CONCRETE SLAB SCHEDULE						
MARK	THICKNESS	TYPICAL REINFORCEMENT TOP BOTTOM				
PT6S	6"	SEE PLAN	#5 @ 18" OC EW			
PT8	8"	SEE PLAN	#4 @ 48" OC EW			

SHEAR STUD RAIL SCHEDULE								
MARK	FIRST STUD SPACING	TYP STUD SPACING	# OF STUDS PER RAIL	NUMBER SHORT SIDE	OF RAILS LONG SIDE			
3SR-6(3-4)	2"	3"	6	3	4			
3SR-10(4-4)	2 3/4"	3"	10	4	4			
4SR-6(3-3)	2 3/4"	4"	6	3	3			
4SR-8(3-3)	2 3/4"	∆"	8	3	3			



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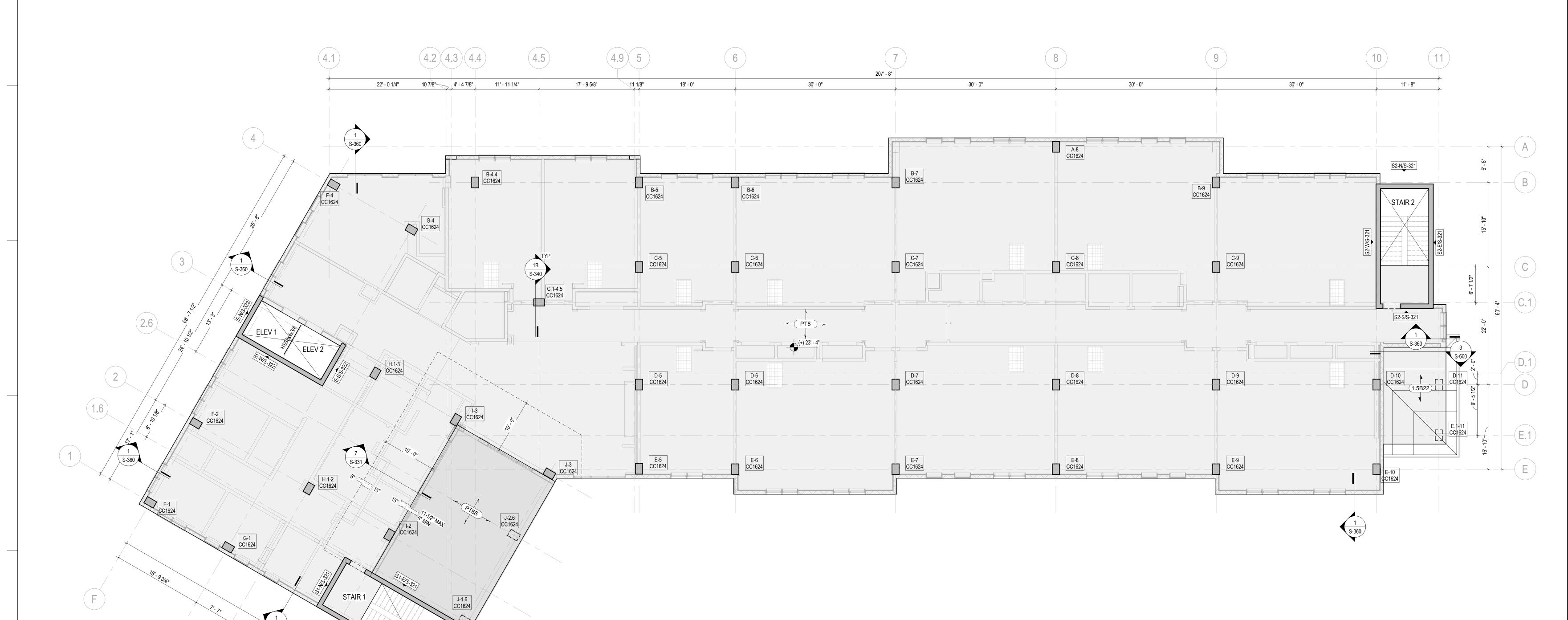
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Project No.: 2021009 Date: 12/01/2025

SECOND **FLOOR** REINFORCING **PLAN**



THIRD FLOOR FRAMING PLAN

1/8" = 1'-0" CONCRETE FRAMING PLAN NOTES:

 CONCRETE SLAB TAG: ARROWS DENOTE SLAB SPAN DIRECTION CS##: DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT) ARROWS DENOTE SLAB SPAN DIRECTION

PT##: DENOTES SLAB MARK **←** PT## → (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)

2. SEE PLAN FOR TOP OF SLAB ELEVATIONS.

3. DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE S-340 SERIES. FOR WALL DETAILS SEE S-320 SERIES.

4. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #5 AT 24" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

5. SEE ARCHITECTURAL DRAWINGS FOR:

 ALL SLOPED SLAB AREAS. ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

6. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS. SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB. SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN) EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL

 SLEEVES AND PENETRATIONS INTERRUPTING BANDED LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF

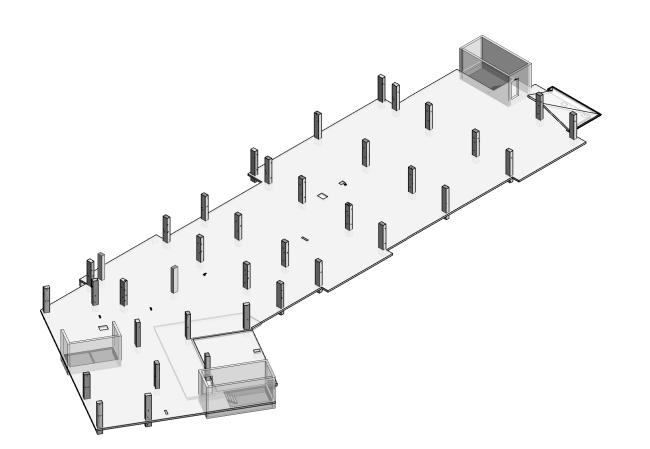
7. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **<u>S-12X-R</u>**.

8. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **S-12X-PT**.

9. DENOTES SHOWER DEPRESSIONS.

POST-TENSIONED CONCRETE SLAB SCHEDULE SEE PLAN #5 @ 18" OC EV SEE PLAN #4 @ 48" OC EW

	METAL RO	OF DEC	K SCHED	ULE			
DECK DEPTH	DECK TYPE	DECK	MINI	MUM DEC	K PROPERT	TES	COMMENTS
(THICKNESS)		GAUGE		In	Sp	Sn	
			lp (in^4/ft)	(in^4/ft)	(in^3/ft)	(in^3/ft)	
1 1/2"	WIDE RIB ROOF DECK	22 GA	0.155	0.178	0.169	0.179	
1 1/2"	WIDE RIB ROOF DECK	20 GA	0.197	0.217	0.224	0.229	



3D AXONOMETRIC - THIRD FLOOR (FOR REFERENCE ONLY)

S-123

JEZERINAC GROUP 1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

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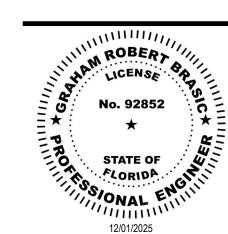
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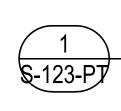
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THIRD FLOOR **FRAMING PLAN**



THIRD FLOOR PT PLAN

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

- 1. SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
- 2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET S-003 AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
- 3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE S-33X SERIES. TENDON LAYOUT NOTES:
- LINEWORK SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
- A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE. STRAIGHT LINE HORIZONTAL OFFETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH
- HORIZONTAL CURVE/SWEEP PER DETAIL. MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE.
- 5. TENDON DRAPE ELEVATION NOTES:

LAYER.

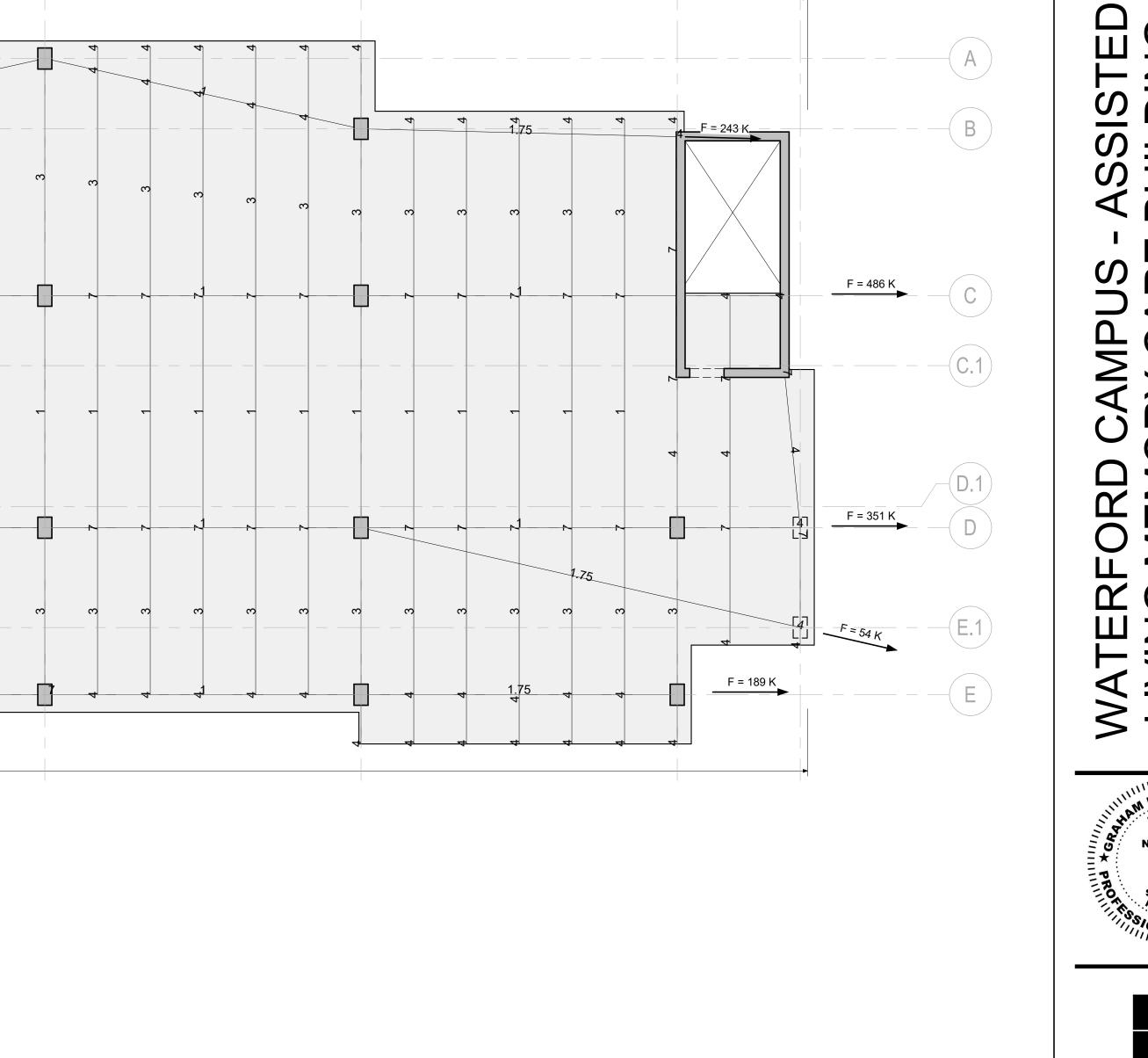
- # :DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS). AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-
- DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED. TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON)
- LINES) AS INDICATED ABOVE. TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
- F = # K :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM. BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE
- F = # KLF :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED

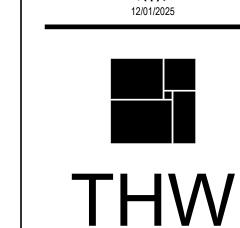
UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE **JEZERINAC** GROUP

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THIRD FLOOR PT PLAN

THIRD FLOOR REINFORCING PLAN

CONCRETE SLAB REINFORCEMENT PLAN NOTES:

1. FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE S-331 AND S-332. REINFORCING ON PLAN SHALL BE IN ADDITION TO REINFORCING IN TYPICAL SLAB REINFORCEMENT DETAILS.

2. PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE 8/S-331). SEE 11/S-331 FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND

SPLICE/DEVELOPMENT REQUIREMENTS.

3. SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.

4. ##SR-#(#-#) :DENOTES SHEAR STUD RAILS (SEE DETAILS AND SCHEDULE ON S-332).

5. SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

A. MAT REINFORCEMENT (SEE SLAB SCHEDULE).

B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE S-331). BAR SPACING OVER WIDTH OR QUANTITY SHOWN ACI STANDARD 180° HOOK (ALL TOP BARS HOOKED AT EDGE-OF-SLAB EVEN WHEN NOT INDICATED) SOLID LINE DENOTES TOP BARS (OR TOP & BOTTOM) DASHED LINE DENOTES BOTTOM BARS

> SINGLE ARROW DENOTES EXTENT OF BAR PLACEMENT. DOUBLE ARROW DENOTES EXTENT TO CONTINUE UNTIL EDGE-OF-SLAB OR END-OF-ELEMENT (AS APPLICABLE) -

C. TYPICAL NOMENCLATURE.

#: DENOTES QUANTITY OF BARS — #T OR #B T: DENOTES TOP BARS B: DENOTES BOTTOM BARS D. REINFORCEMENT AT COLUMNS.

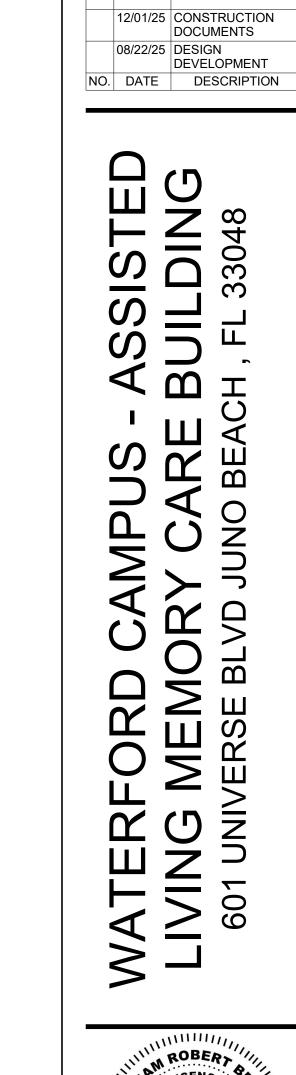
CONCRETE COLUMN (SEE FRAMING PLAN) BARS EACH WAY (SEE TYPICAL NOMENCLATURE)

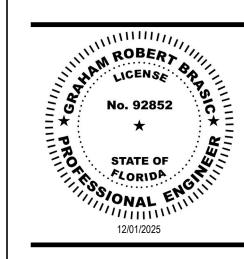
SHEAR STUD RAIL SCHEDULE								
FIRST STUD TYP STUD # OF STUDS PER NUMBER OF RAILS								
MARK	SPACING	SPACING	RAIL	SHORT SIDE	LONG SIDE			
3SR-6(3-4)	2"	3"	6	3	4			
3SR-10(4-4)	2 3/4"	3"	10	4	4			
4SR-6(3-3)	2 3/4"	4"	6	3	3			
4SR-8(3-3)	2 3/4"	4"	8	3	3			



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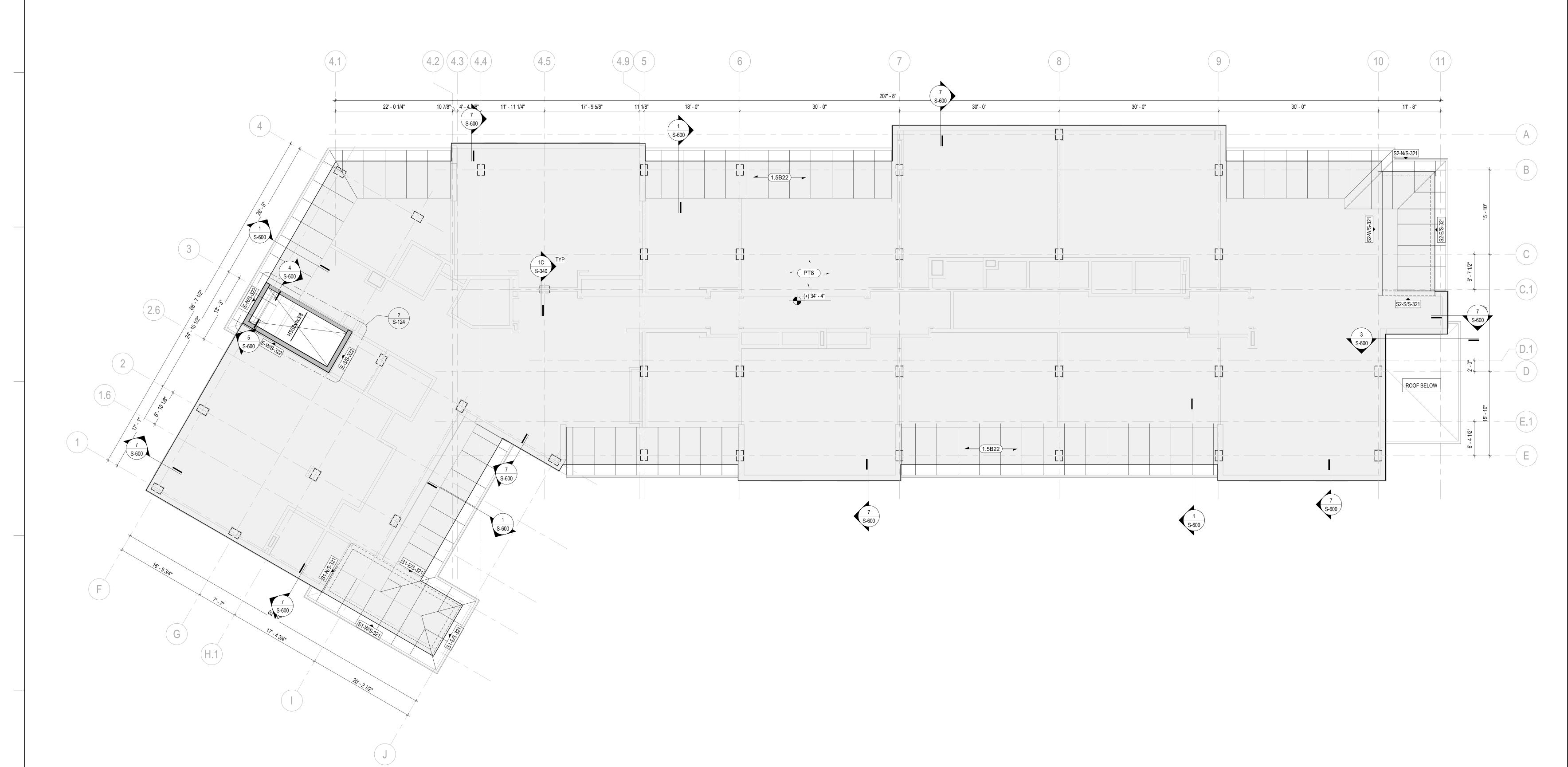
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Date: 12/01/2025

THIRD FLOOR REINFORCING **PLAN**



ROOF FRAMING PLAN

1/8" = 1'-0"

CONCRETE FRAMING PLAN NOTES:

1. CONCRETE SLAB TAG: ARROWS DENOTE SLAB SPAN DIRECTION CS##: DENOTES SLAB MARK —(CS##)— (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT) ARROWS DENOTE SLAB SPAN DIRECTION

PT##: DENOTES SLAB MARK (SEE SCHEDULE ON THIS SHEET FOR SLAB THICKNESS AND REINFORCEMENT)

2. SEE PLAN FOR TOP OF SLAB ELEVATIONS.

DENOTES CONCRETE COLUMN/PIER/WALL. FOR COLUMN SCHEDULE AND DETAILS SEE S-340 SERIES. FOR WALL DETAILS SEE S-320 SERIES.

4. DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH #5 AT 24" OC VERTICAL 7. HG: DENOTES PRE-ENGINEERED METAL ROOF HIP GIRDER. REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.

5. SEE ARCHITECTURAL DRAWINGS FOR:

 ALL SLOPED SLAB AREAS. ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCEPENCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

6. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS. SLEEVES, AND INSERTS REQUIRED TO BE CAST IN THE SLAB. SLEEVES AND PENETRATIONS WITHIN 48 INCHES OF THE FACE OF ANY CONCRETE COLUMN (NOT SHOWN) EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD.

 SLEEVES AND PENETRATIONS INTERRUPTING BANDED LINES OF TENDONS (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF

SLEEVES AND PENETRATIONS GREATER THAN 12 INCHES IN LENGTH OR WIDTH (NOT SHOWN EXPLICITLY ON THE STRUCTURAL DRAWINGS) SHALL BE SUBMITTED FOR APPROVAL TO THE STRUCTURAL ENGINEER OF

7. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET <u>S-12X-R</u>.

8. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **S-12X-PT**.

9. DENOTES SHOWER DEPRESSIONS.

METAL ROOF TRUSS PLAN NOTES:

1. ROOF DECK TAG: ARROWS DENOTE DECK SPAN DIRECTION #.#X##: DENOTES DECK MARK

---(#.#X##)---(SEE SCHEDULE ON THIS SHEET FOR DECK PROPERTIES AND ATTACHMENT PATTERNS)

2. SEE ARCHITECTURAL DRAWINGS FOR TRUSS BEARING ELEVATION. 3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN AND ALL SLAB ELEVATIONS.

4. ROOF TRUSSES SHALL BE SUPPORTED FRONT AND BACK BY GALVANIZED DOWNTURNED CHANNEL SPANNING

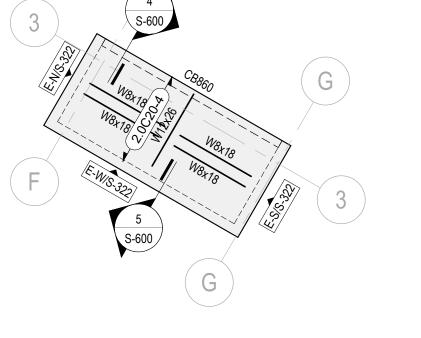
BETWEEN AND WELDED TO GALVANIZED EMBEDS IN TOP OF SLAB. SEE 1/S-600. 5. TRUSS SYSTEM IS OVERBUILT AND THUS DOES NOT HAVE LATERAL ELEMENTS FOR DIAPHRAGM BRACING. TRUSS CONNECTIONS SHALL BE DESIGNED FOR CONCURRENT VERTICAL AND HORIZONTAL LOADS TO TRANSFER REACTIONS TO DOWNTURNED CHANNELS BELOW.

6. TG: DENOTES PRE-ENGINEERED METAL ROOF TRUSS GIRDER.

POST-TENSIONED CONCRETE SLAB SCHEDULE						
MARK	THICKNESS	TYPICAL REINFORCEMENT				
WARK	INICKNESS	TOP	BOTTOM			
PT6S	6"	SEE PLAN	#5 @ 18" OC EW			
DTQ	Q"	CEE DI ANI	#4 @ 49" OC EW			

METAL ROOF DECK SCHEDULE								
	DECK DEPTH	DECK TYPE	DECK	MINIMUM DECK PROPERTIES COMMENT			COMMENTS	
	(THICKNESS)		GAUGE		In	Sp	Sn	
MARK				lp (in^4/ft)	(in^4/ft)	(in^3/ft)	(in^3/ft)	
1.5B22	1 1/2"	WIDE RIB ROOF DECK	22 GA	0.155	0.178	0.169	0.179	
1.5B20	1 1/2"	WIDE RIB ROOF DECK	20 GA	0.197	0.217	0.224	0.229	

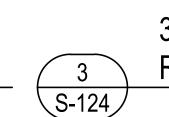
CONCRETE OVER COMPOSITE METAL DECK SCHEDULE MINIMUM DECK PROPERTIES DECK DEPTH | TOTAL SLAB | DECK | TYPE MARK (THICKNESS) THICKNESS GAUGE Ip (IN^4/FT) Is (IN^4/FT) Sp (IN^3/FT) Sn (IN^3/FT) REINFORCEMENT 2.0C20-4 2" 4" 20 0.409 0.407 0.326 0.337 6x6-W1.4xW1.4



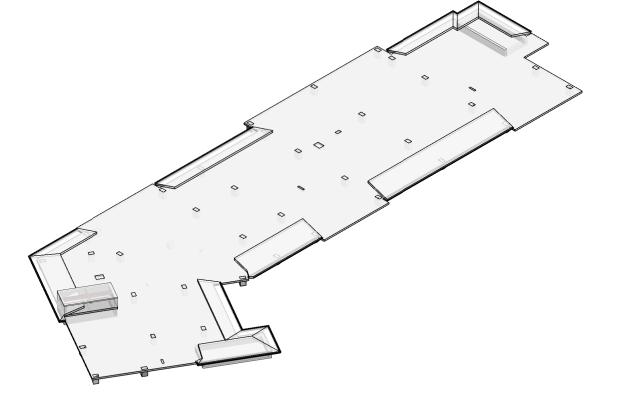


1/8" = 1'-0"

S-124



3D AXONOMETRIC - ROOF (FOR REFERENCE ONLY)



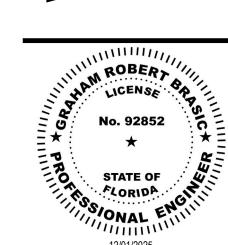
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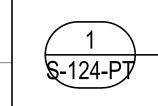
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ROOF FRAMING PLAN

APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS. 12/1/2025 6:02:13 PM



ROOF PT PLAN

POST-TENSIONED CONCRETE SLAB PLAN NOTES:

- 1. SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
- 2. SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET S-003 AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
- 3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE S-33X SERIES.
- 4. TENDON LAYOUT NOTES:
- LINEWORK SHOWN FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF UNIFORMLY DISTRIBUTED TENDON BUNDLES.
- A MINIMUM OF (2) TENDONS SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE. STRAIGHT LINE HORIZONTAL OFFETS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH
- HORIZONTAL CURVE/SWEEP PER DETAIL. MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE
- PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERENCED ABOVE. 5. TENDON DRAPE ELEVATION NOTES:
- # :DENOTES PT TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDONS/STRAND BUNDLE (CGS).

 • AT DEAD ENDS AND STRESSING ENDS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR SLAB CONDITIONS), UNLESS OTHERWISE NOTED.
- TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE. • TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
- TENDON FORCE NOTES:
- F = # K :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BANDED TENDON GROUP OR BEAM. BANDED TENDON GROUPS SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS FLAT IN ONE LAYER. TOTAL QUANTITY OF BANDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE
- F = # KLF :DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN FLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5'-0" ON CENTER, WITH TENDONS FLAT IN ONE

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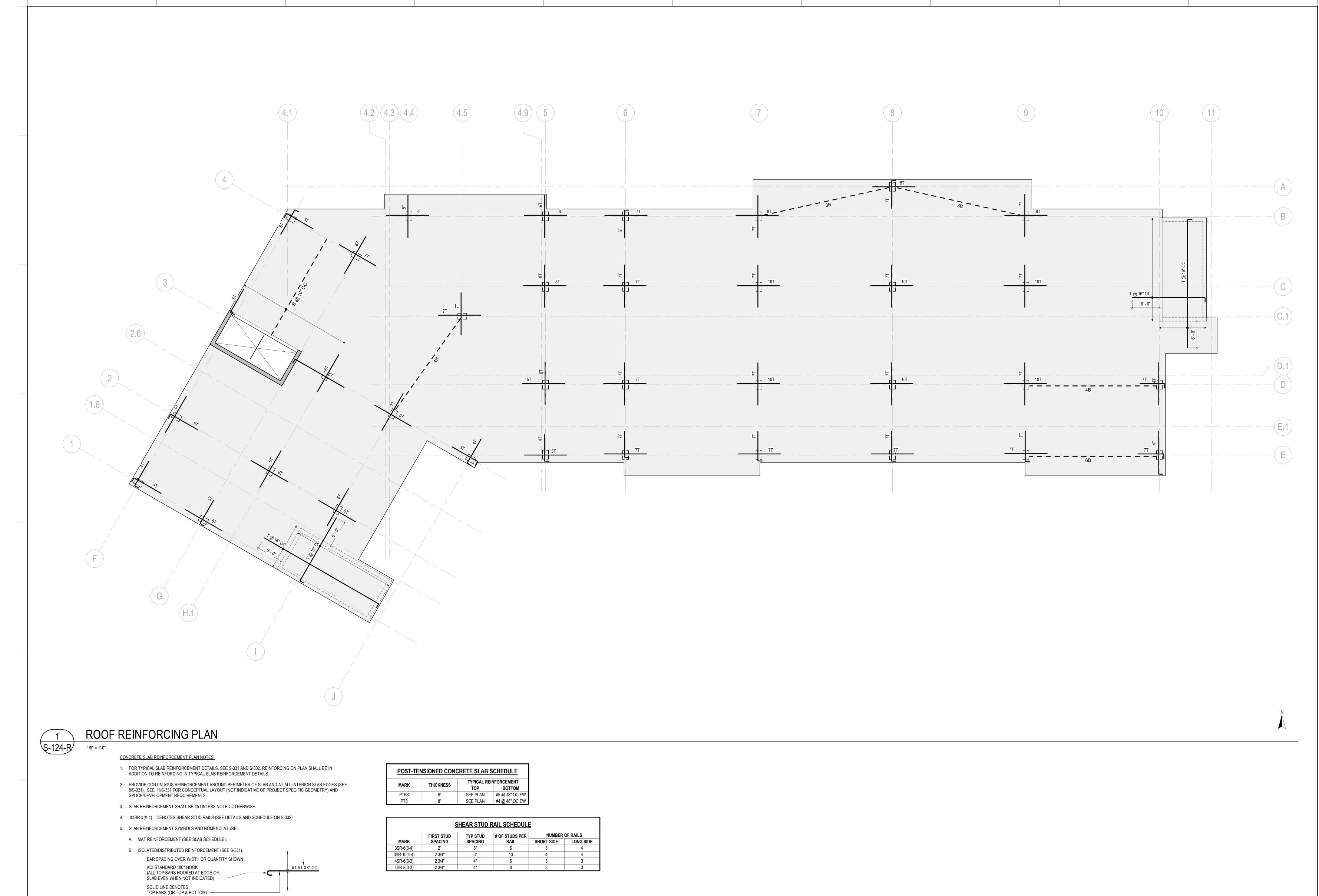
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ROOF PT PLAN



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ROOF REINFORCING **PLAN**

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DASHED LINE DENOTES BOTTOM BARS

ELEMENT (AS APPLICABLE)

#: DENOTES QUANTITY OF BARS

BARS EACH WAY (SEE TYPICAL NOMENCLATURE) —

T: DENOTES TOP BARS B: DENOTES BOTTOM BARS -

CONCRETE COLUMN (SEE FRAMING PLAN)

C. TYPICAL NOMENCLATURE.

D. REINFORCEMENT AT COLUMNS.

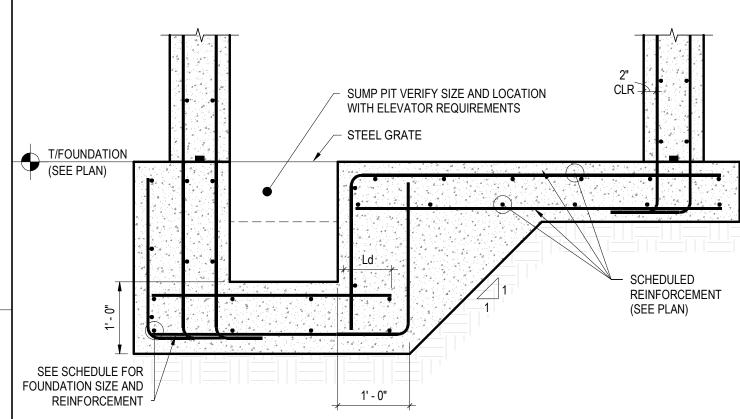
SINGLE ARROW DENOTES EXTENT OF BAR PLACEMENT. DOUBLE ARROW DENOTES EXTENT

TO CONTINUE UNTIL EDGE-OF-SLAB OR END-OF-

→ #T OR #B

T 561.622.8585 www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004 TO THE BEST OF THE ENGINEER'S

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1. GC SHALL CONFIRM ALL DIMENSIONS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.





KNOWLEDGE, THE PLANS AND

DESIGN

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Project No.: 2021009

TYPICAL

FOUNDATION

DETAILS

12/01/2025

Date:

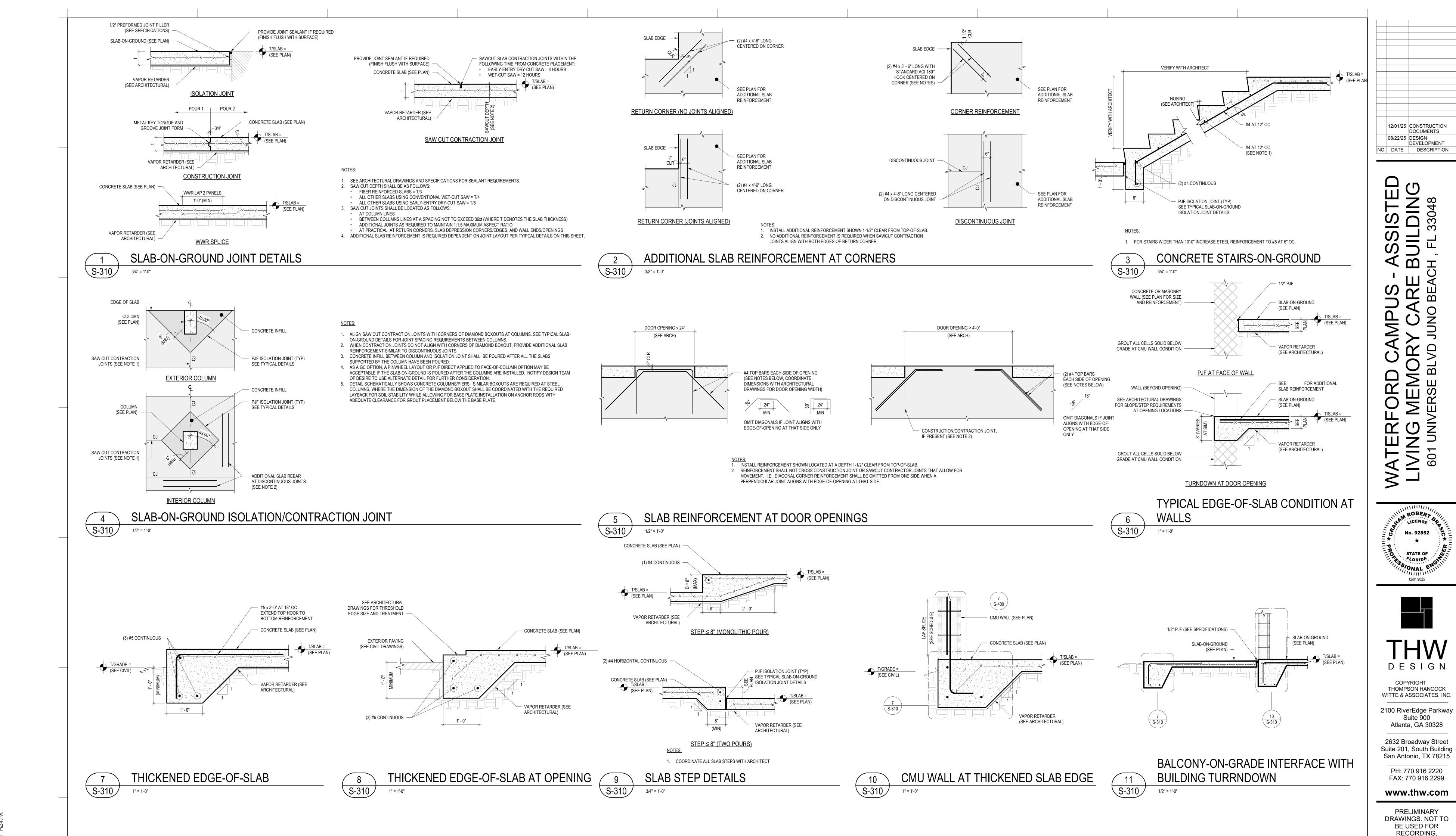
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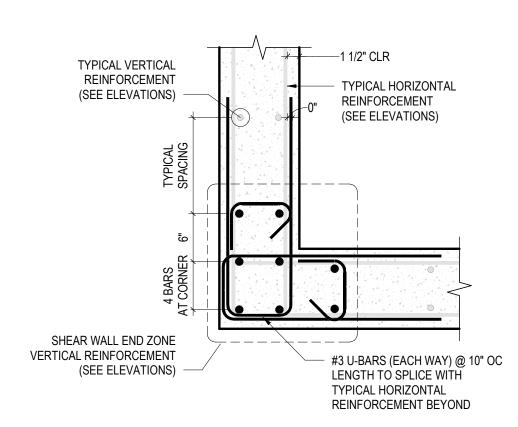
TYPICAL

DETAILS

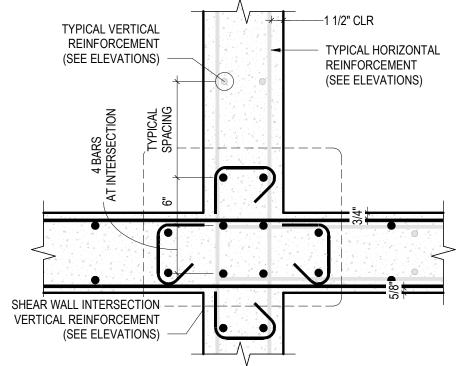
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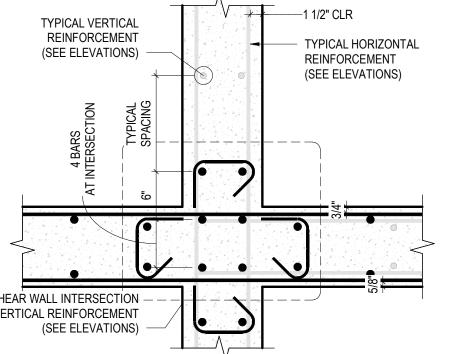
ENDS OF WALLS & AT OPENINGS (E-TYPE MARK ON ELEVATIONS)



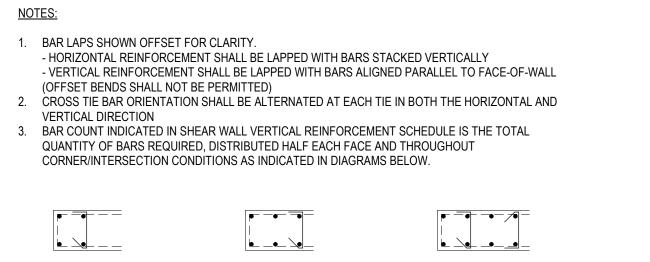
CORNER CONDITION (L-TYPE MARK ON ELEVATIONS)

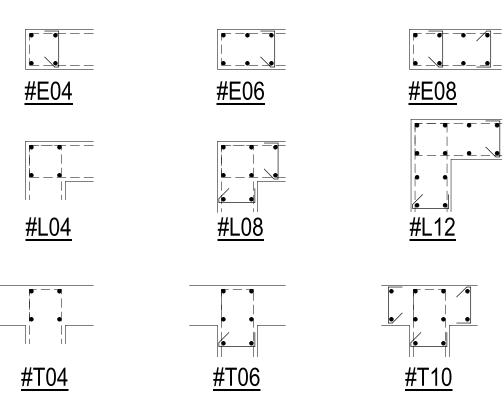


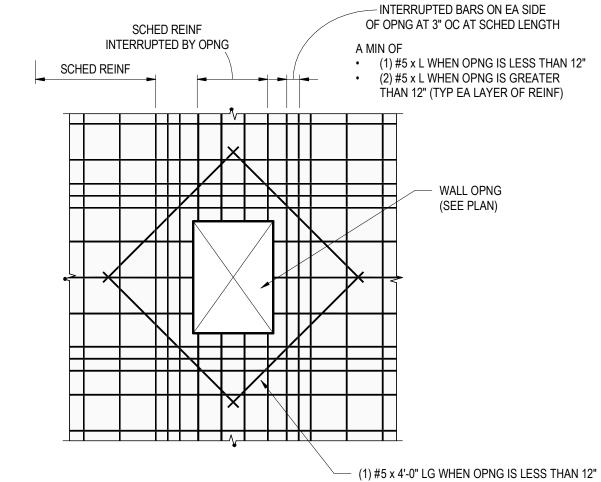
INTERSECTION CONDITION



(T-TYPE MARK ON ELEVATIONS)







(2) #5 x 4'-0" LG WHEN OPNG IS GREATER THAN 12" (TYP T&B)

PLACE HALF OF THE NUMBER OF

12/01/25 CONSTRUCTION DOCUMENTS

DEVELOPMENT

08/22/25 DESIGN

NO. DATE DESCRIPTION

DESIGN

THOMPSON HANCOCK

WITTE & ASSOCIATES, INC.

2100 RiverEdge Parkway

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Project No.: 2021009

TYPICAL

CONCRETE

SHEAR WALLS

DETAILS

Date:

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S-320

\S-320/

SHEAR WALL END ZONE AND CORNER/INTERSECTION REBAR LAYOUTS

S-320

DOWELS WITH STANDARD

HOOKS MATCH SIZE AND

- EQUALLY SPACED STIRRUPS (SEE SCHEDULE) SEE NOTE 2 DEVELOPMENT LENGTH

(SEE SCHEDULE) <u>OPENING</u> 1. SHEAR WALL REINFORCEMENT IS NOT SHOWN IN THIS ELEVATION FOR CLARITY

WHEN LOCATED AT/NEAR A CORNER OR END-OF-WALL, LINK BEAM LONGITUDINAL REINFORCEMENT SHALL BE TERMINATED WITH AN ACI STANDARD 90° HOOK. GC OPTION TO USE A HEADED TERMINATOR IN LIEU OF HOOK -SUBMIT PRODUCT DATA FOR SER REVIEW. TOP REINFORCING SHALL CONTINUE INTO SLAB BEYOND WHEN

SHEAR WALL LINK BEAM ELEVATION

STIRRUP HOOKS SHALL BE INSTALLED ON THE "RESTRAINED" SIDE OF BEAM WHERE SLAB IS PRESENT WHEN A CAP TIE IS USED, THE 90 DEGREE HOOK SHALL SCHEDULED TOP REINFORCING PLACE BE INSTALLED ON THE "RESTRAINED" SIDE OF BEAM REINFORCING IN ONE LAYER UNO IN WHERE SLAB IS PRESENT CONCRETE SLAB (REINFORCING NOT SHOWN FOR CLARITY) CONSTRUCTION JOINT STIRRUPS OR VERTICAL WALL REINFORCING (SEE SCHEDULE) SCHEDULED HORIZONTAL REINFORCING CONTINUE TYP WALL REINFORCING THRU COUPLING BEAM WHERE REINFORCING IS NOT SPECIFICALLY SCHEDULED SCHEDULED BOTTOM REINFORCING PLACE REINFORCING IN ONE LAYER UNO IN SCHEDULE

> 1. CLOSED STIRRUP MAY BE EITHER ONE CONTINUOUS BAR WITH A 135 HOOK ON EITHER END AROUND THE SAME LONGITUDINAL BAR, OR A U SHAPED STIRRUP WITH 135 DEGREE HOOKS AT EITHER END AND AN OPEN STIRRUP AS A CAP WITH A 135 DEGREE HOOK AT ONE END AND A 90 DEGREE HOOK AT THE OTHER (ACI 318 STANDARD OPTIONS FOR DETAILING OF CLOSED STIRRUP). 2. CONCRETE STRENGTH OF THE COUPLING BEAM SHALL MATCH THE SPECIFIED STRENGTH OF THE WALL

BELOW, INCLUDING THE SLAB DEPTH.

END ZONE REINFORCEMENT PER SHEAR WALL ELEVATION. WHEN NO SPECIFIC JAMB "END ZONE" REINFORCEMENT IS INDICATED, PROVIDE (4) - #5 (2 EACH FACE) SPACED PER 1/S-300 <u>OPENING</u> <u>OPENING</u>

TYPICAL STACKED OPENINGS

#3 U-BARS AT EACH VERTICAL BAR WITH LEG LENGTH TO SPLICE (4) - #5 BARS "TRIM" REINFORCING (2 BARS EACH FACE @ 6" OC) ABOVE OPENING WHEN NO SPECIFIC LINK BEAM MARK IS SHOWN ON SHEAR WALL ELEVATIONS (2) - #5 x 5'-0" LONG DIAGONAL BARS (1 EACH FACE) AT CORNERS (4) - #5 (2 EACH FACE) @ 6" OC EACH SIDE OF OPENING

DISCONTINUOUS OPENING ALIGNMENT - NO OPENING ABOVE (UNLESS NOTED OTHERWISE ON SHEAR WALL ELEVATIONS)

(2) - #5 x 5'-0" LONG DIAGONAL BARS (1 EACH FACE) AT CORNERS (4) - #5 (2 EACH FACE) @ 6" OC EACH SIDE OF OPENING (BEGIN BARS ONE FULL FLOOR HEIGHT BELOW OPENING)

TYPCIAL WALL OPENING

S-320

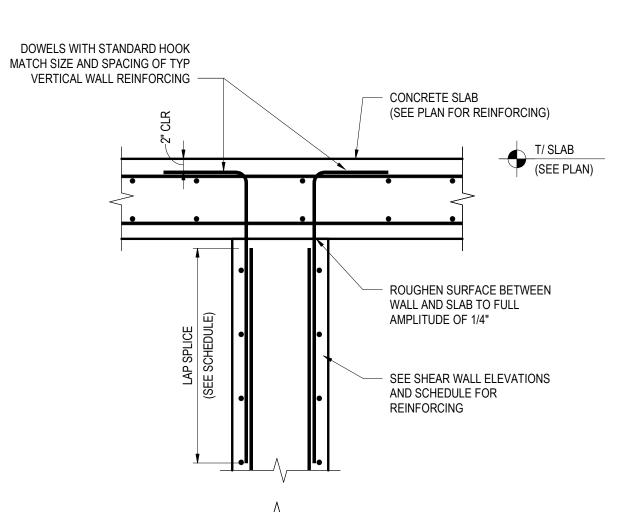
DISCONTINUOUS OPENING ALIGNMENT - NO OPENING BELOW (UNLESS NOTED OTHERWISE ON SHEAR WALL ELEVATIONS)

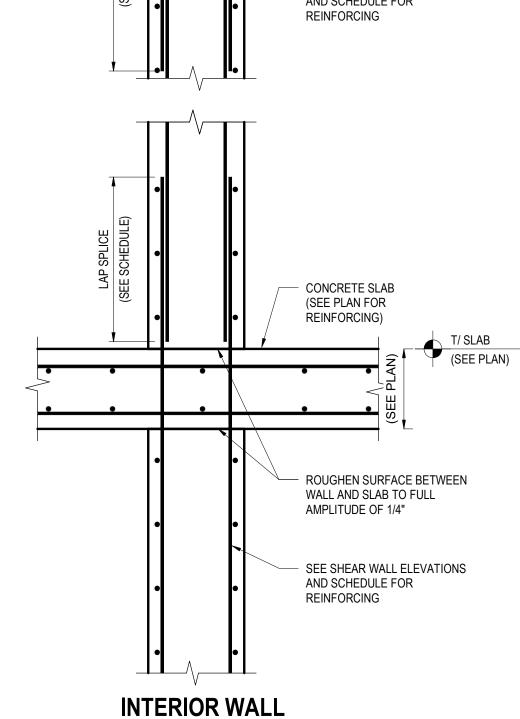
1. SEE SHEAR WALL ELEVATIONS AND SCHEDULE FOR LINK BEAM REQUIREMENTS. WHEN NO LINK BEAM IS INDICATED, PROVIDE (4) - #7 TOP & BOTTOM BARS WITH #3 DOUBLE U-BAR STIRRUPS WITH SPACING TO MATCH TYPICAL VERTICAL WALL REINFORCEMENT

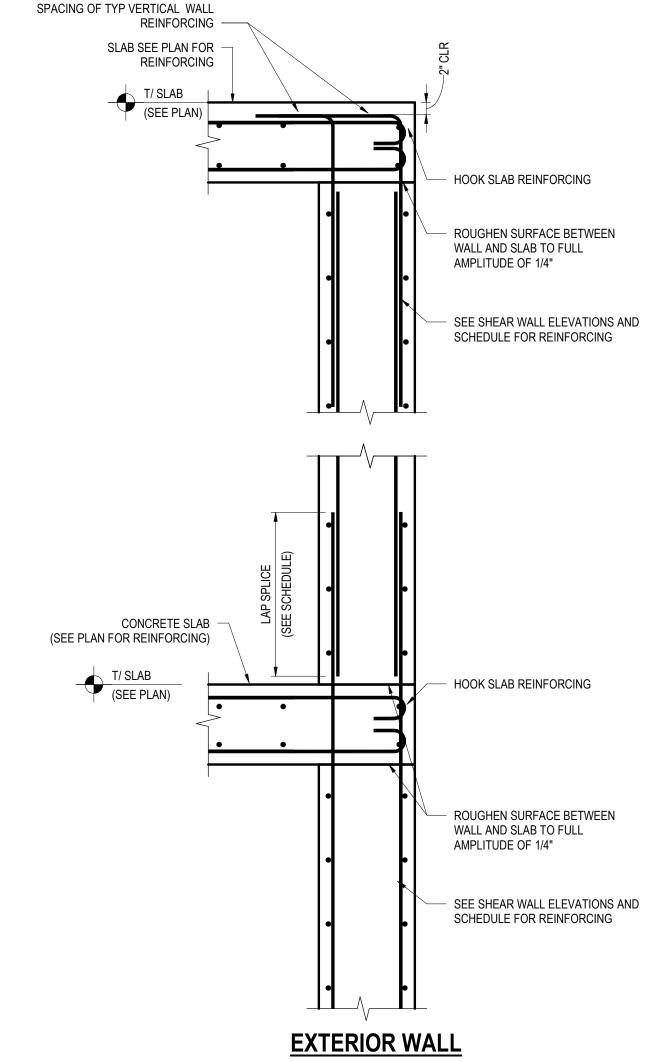
BAR ARRANGEMENT AT OPENINGS (UNO) - SECTION

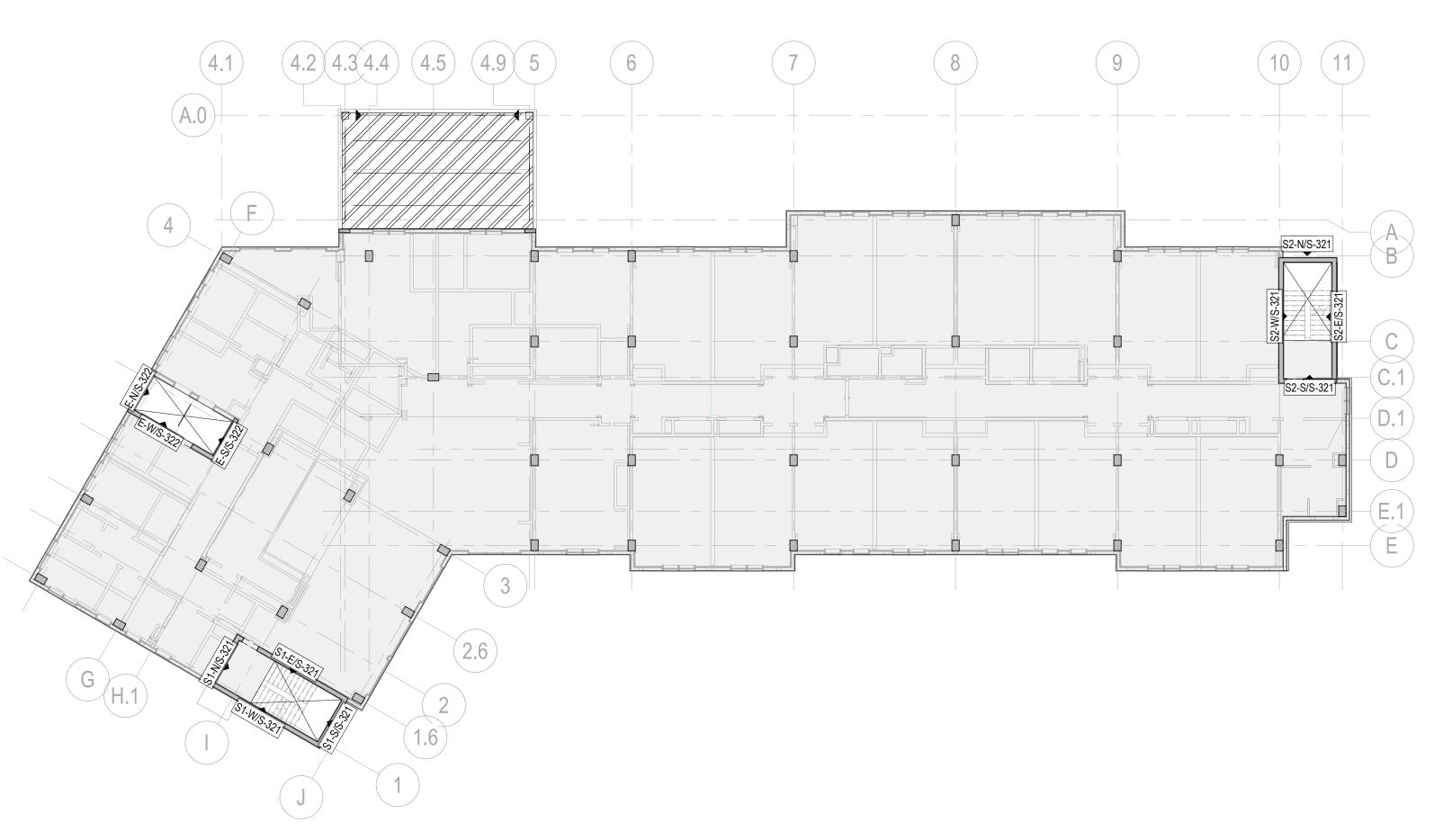
LINK BEAM - SECTION

S-320











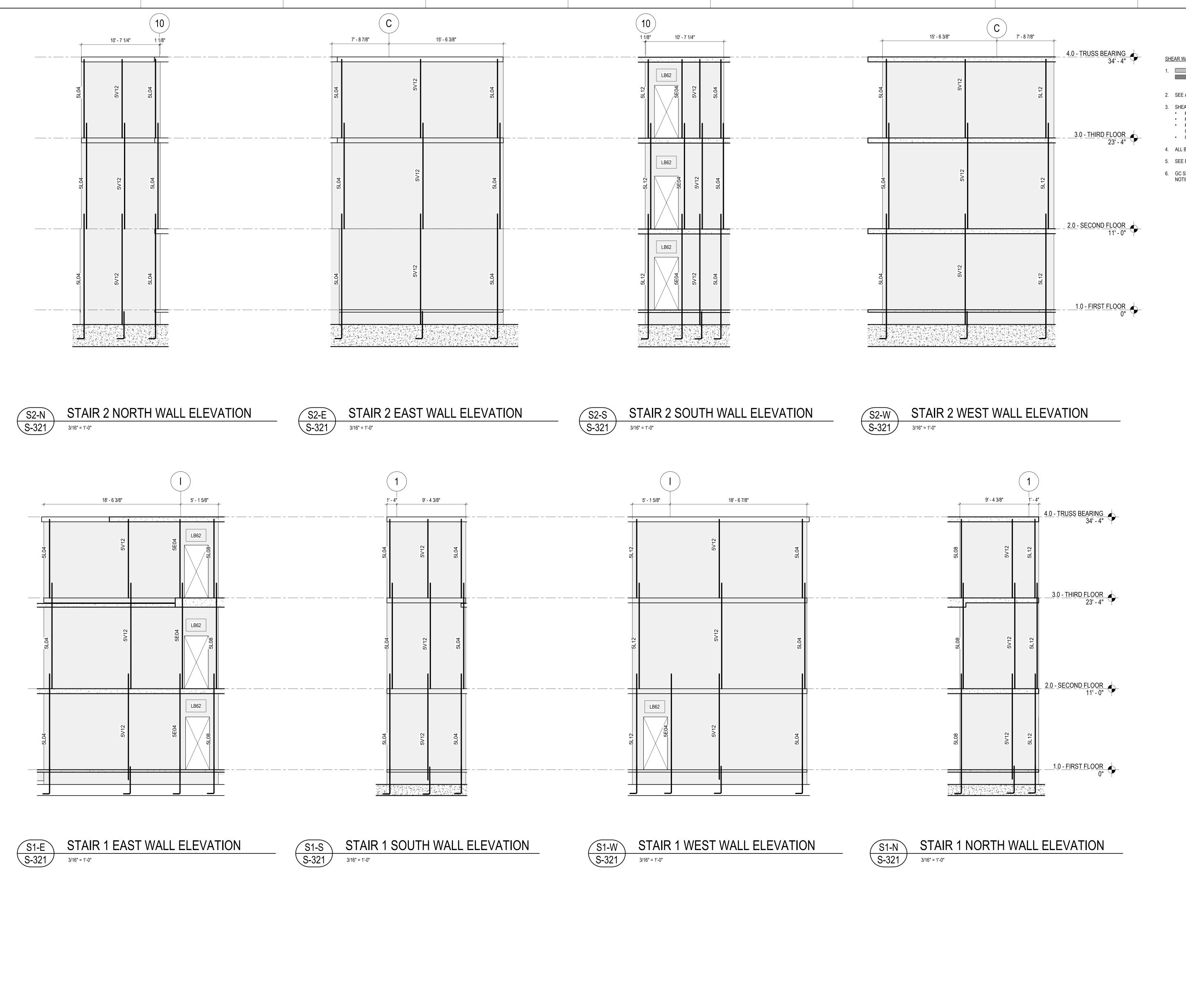
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\S-320*/*

TYPICAL CONCRETE SLAB-TO-SHEAR WALL CONNECTIONS - SECTION

SHEAR WALL KEY PLAN **∖**S-320 / 1/16" = 1'-0"

12/1/2025 6:02:18 PM



SHEAR WALL ELEVATION NOTES:

1. DENOTES 10" WALL THICKNESS DENOTES 12 WALL THICKNESS

2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS

2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENS

3. SHEAR WALL REINFORCEMENT TAGS:
#V##: DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
#E##: DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
#H##: DENOTES TYPICAL HORIZOTAL REINFORCEMENT (5H12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE

ON THIS SHEET)

• CB##: DENOTES COUPLING BEAM, MARK (SEE SCHEDULE ON THIS SHEET)

4. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.

5. SEE DETAILS ON S-320.

GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEA, OF DISCREPANCIES.

TYPICAL HORIZONTAL REINFORCING

MARK BAR SIZE BAR SPACING

TYPICAL VERTICAL REINFORCING

MARK BAR SIZE BAR SPACING

VERTICAL END REINFORCING				
MARK	BAR SIZE	# BARS (1/2 EF)		
5E04	#5	4		

VERTICAL CORNER REINFORCING				
MARK	BAR SIZE	# BARS (1/2 EF)		
5L04	#5	4		
5L08	#5	8		
5L12	#5	12		

	LINK BEAM SCHEDULE							
MADIZ	REINFORCEMENT							
MARK	LONGITUDINAL	STIRRUPS	SKIN					
LB62	(2) - #6 (T&B)	#4 @ 12" OC	SEE NOTE 1					
NOTES:								

NOTES:

1. #5 @ 9" OC (EACH FACE) SKIN REINFORCEMENT SHALL BE PROVIDED FOR ALL LINK BEAMS GREATER THAN 36" DEEP, FULL-HEIGHT OF LINK BEAM.

ROBERY
No. 92852

*
STATE OF
FLORIDA
12/01/2025

12/01/25 CONSTRUCTION DOCUMENTS

08/22/25 DESIGN
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Project No.: 2021009
Date: 12/01/2025

CONCRETE
SHEAR WALL
ELEVATIONS

S-321

ssk Docs://The Waterford (Stage 2)/2021009_WCR_MC

JEZERINAC
GROUP

1615 FORUM PLACE, SUITE 3A
WEST PALM BEACH, FL 33401
T 561.622.8585

www.jezerinacgroup.com

CERTIFICATE OF AUTHORIZATION FL #30785

JG Project #: 21.18.004

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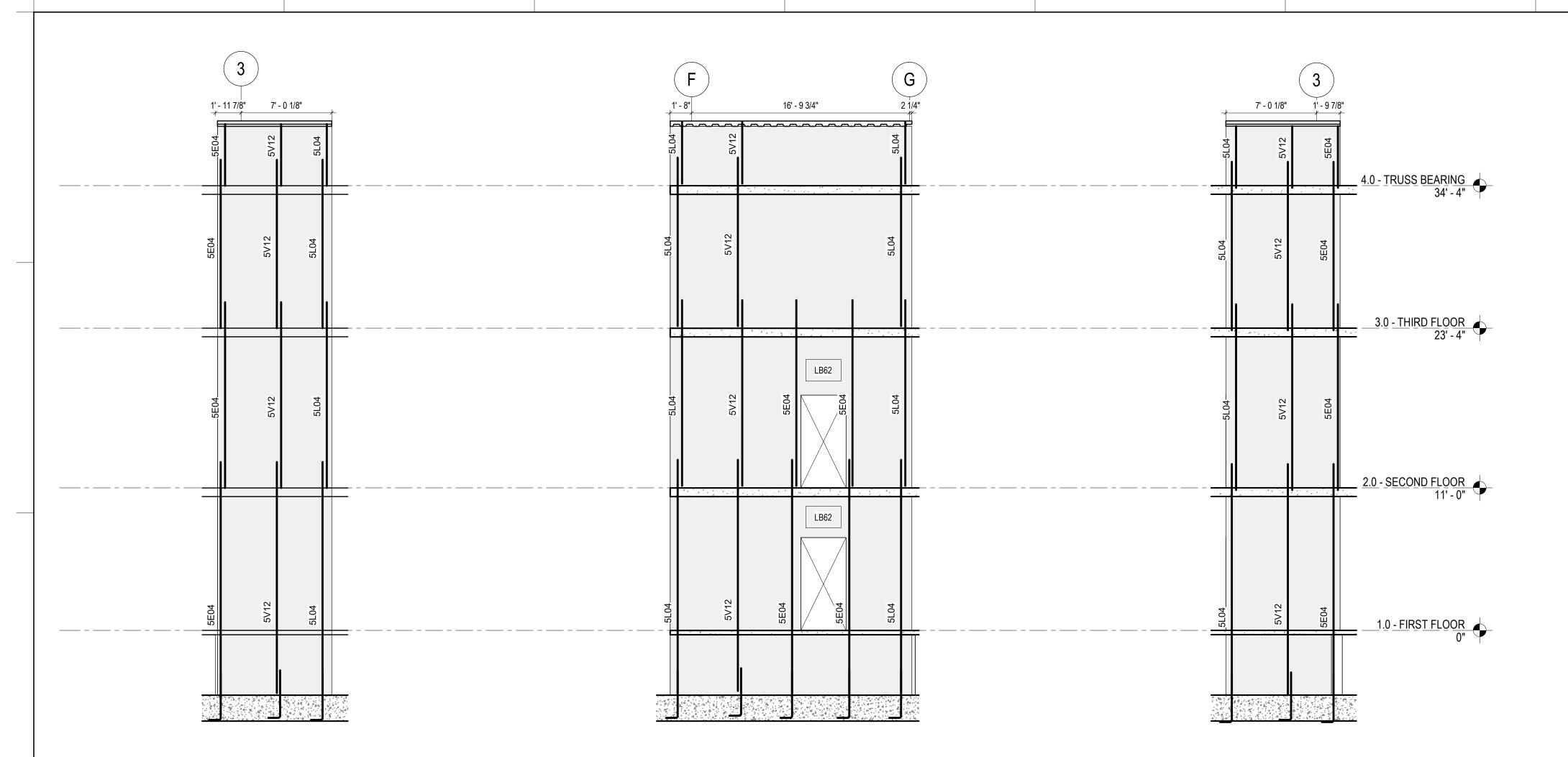
KNOWLEDGE, THE PLANS AND

SPECIFICATIONS COMPLY WITH THE

APPLICABLE BUILDING CODES AND

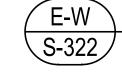
MATERIAL SPECIFICATIONS.

12/1/2025 6:02:20 PM



S-322

ELEVATOR NORTH WALL ELEVATION



3/16" = 1'-0"

ELEVATOR WEST WALL ELEVATION



ELEVATOR SOUTH WALL ELEVATION

SHEAR WALL ELEVATION NOTES:

1. DENOTES 10" WALL THICKNESS DENOTES 12 WALL THICKNESS

2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS

3. SHEAR WALL REINFORCEMENT TAGS:
#V##: DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
#E##: DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
#H##: DENOTES TYPICAL HORIZOTAL REINFORCEMENT (5H12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE

CB##: DENOTES COUPLING BEAM, MARK (SEE SCHEDULE ON THIS SHEET)

4. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.

5. SEE DETAILS ON S-320.

6. GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEA, OF DISCREPANCIES.

VERTIC	VERTICAL END REINFORCING				
MARK	BAR SIZE	# BARS (1/2 EF)			
5E04	#5	4			

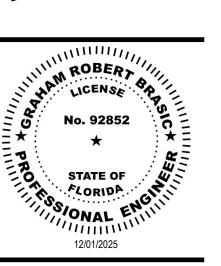
VERTICAL CORNER REINFORCING				
MARK	BAR SIZE	# BARS (1/2 EF)		
5L04	#5	4		
5L08	#5	8		
5L12	#5	12		

	LINK BEAM SCHEDULE					
MADIZ	REINFOR	RCEMENT				
MARK	LONGITUDINAL	STIRRUPS	SKIN			
LB62	(2) - #6 (T&B)	#4 @ 12" OC	SEE NOTE 1			

NOTES:

1. #5 @ 9" OC (EACH FACE) SKIN REINFORCEMENT SHALL BE PROVIDED FOR ALL LINK BEAMS GREATER THAN 36" DEEP, FULL-HEIGHT OF LINK BEAM.

12/01/25 CONSTRUCTION DOCUMENTS 08/22/25 DESIGN DEVELOPMENT
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SHEAR WALL

ELEVATIONS

12/01/2025

CONSTRUCTION

Date:

JEZERINAC GROUP

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TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND

MATERIAL SPECIFICATIONS. 12/1/2025 6:02:21 PM



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Project No.: 2021009

TYPICAL PT

TENDON

DETAILS

12/01/2025

Date:

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DOCUMENTS

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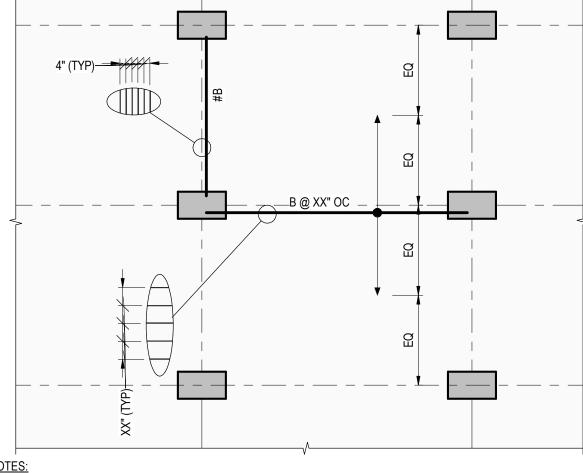
APPLICABLE BUILDING CODES AND 12/1/2025 6:02:22 PM

MATERIAL SPECIFICATIONS.

SLAB BAR LENGTHS \S-331/

ANY BOTTOM BAR PASSING THROUGH A COLUMN SHALL EXTENT A FULL DEVELOPMETN LENGTH

BEYOND THE CENTERLINE.



1. BARS SHOWN AS #B SHALL BE CENTERED ALONG COLUMN LINE UNLESS SPECIFICALLY NOTED OTHERWISE.

BOTTOM BAR PLACEMENT

BARS SHOWN AS SPACED AT xx" SHALL BE OF A QUANITY AS REQUIRED TO FILL EVENLY THE EXTENTS SHOWN ON

BAR SPACED FOR BARS SHOWN AS #B SHALL BE 4" OC UNLESS NOTED OTHERWISE.

5. SEE TYPICAL POST TENSIONED SLAB REINFORCING LAYOUT DETAIL FOR BAR EXTENTS.

4. BOTTOM BARS SHALL BE CENTERED AT MID SPAN UNLESS NOTED OTHERWISE.

S-331

NOTES:

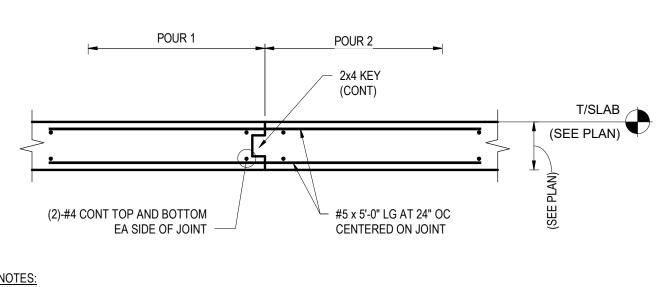
- 1. t: DENOTES SLAB THICKNESS AT COLUMN LOCATION. 2. PLACE A MINIMUM OF 2 OR 3 BARS THROUGH COLUMN (WITHIN COLUMN CAGE), WITH REMAININ GBARS
- EQUALLY DISTRIBUTED ON EACH SIDE OF COLUMN. 3. TOP BARS SHALL BE EQUALLY SPACED WITHIN A WIDTH EQUAL TO THE COLUMN DIMENSION + 3t AS SHOWN
- ABOVE, BUT SHALL NOT BE SPACED GREATER THAN 12" OC. PROVIDE ADDITIONAL BARS IF REQUIRED TO MEET MAXIMUM SPACING REQUIREMENT.

SEE NOTE 4

6' - 0 3/8" 1.5t B 1.5t (MAX)

4. BAR SPACING SHALL BE SUCH THAT ALL BARS FIT WITHIN (B OR H) + 3t, BUT SHALL NOT BE SPACED GREATER THAN 12" OC PROVIDE ADDITIONAL BARS AS REQUIRED. 5. SEE TYPICAL POST TENSIONED SLAB REINFORCEMENT LAYOUT DETAIL FOR BAR LENGTHS.

FOP BAR PLACEMENT AT COLUMNS S-331



12/01/25 CONSTRUCTION

08/22/25 DESIGN

NO. DATE DESCRIPTION

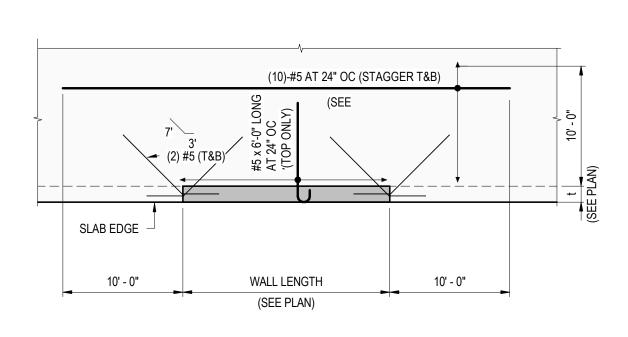
DOCUMENTS

DEVELOPMENT

- SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS FOR REVIEW PRIOR TO CONSTRUCTION. 2. SCHEDULE REINFORCING AND/OR REINFORCING INDICATED ON PLAN SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS. MAINTAIN SPLICE LOCATIONS INDICATED IN FRAMING SECTIONS. ADDITIONAL SPLICES ARE
- 3. WHERE POST TENSION EXISTS, CONSTRUCTION JOINTS SHALL BE LOCATED SUCH THAT THE POST TENSIONING IS ANCHORED AT THE CENTER OF GRAVITY OF THE SLAB CROSS SECTION.
- 4. INTENTIONALLY ROUGHEN THE FACE OF SLAB AT CONSTRUCTION JOINT TO 1/4" MINIMUM AMPLITUDE FOR SLABS ≤ 6" THICK. INSTALL 2X4 CONT KEY AT SLABS > 6" THICK ALTERNATIVELY, STAY IN PLACE GALVANIZED STEEL

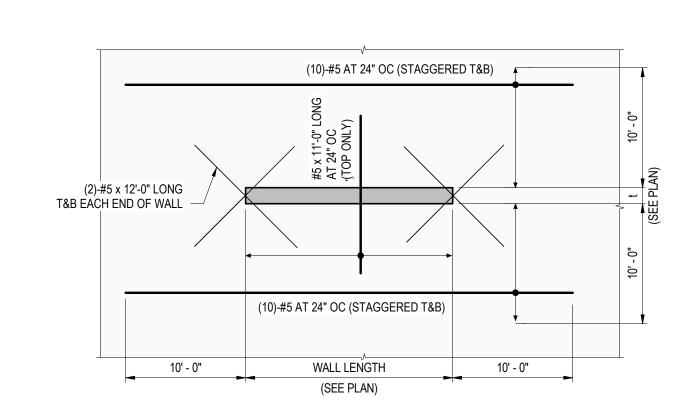
BULKHEAD FORMS CAPABLE OF PROVIDING THE SPECIFIED SURFACE ROUGHNESS MAY BE USED. 5. CLEAR COVER TO ADDITIONAL JOINT REINFORCING SHALL BE AS REQUIRED FOR TYPICAL REINFORCING AT EACH

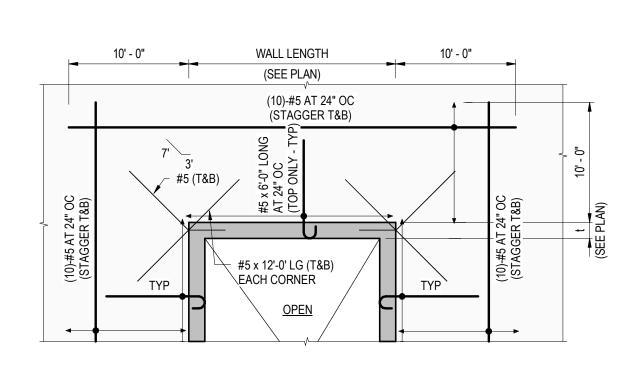


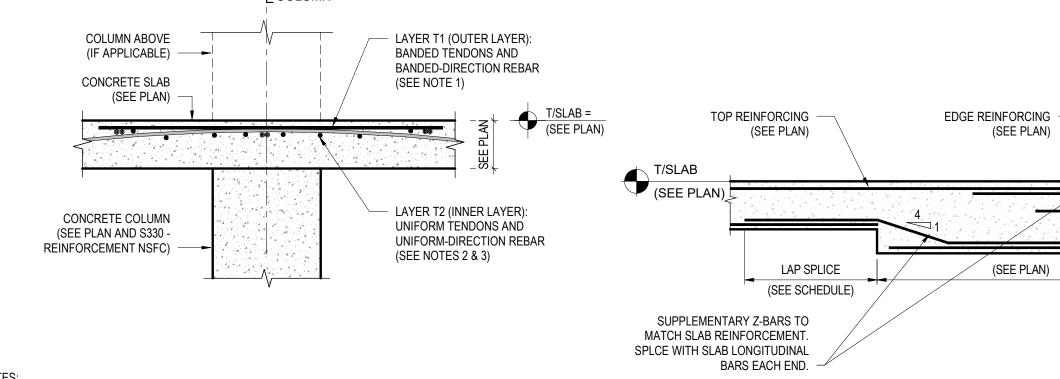


1. AT BASEMENT OR RETAINING WALL CONDITIONS, REINFORCING INDICATED SHALL BE INSTALLED CONTINUOUS ALONG

FULL LENGTH OF WALL AND SLIPE CONNECTIONS SHALL BE PROVIDED

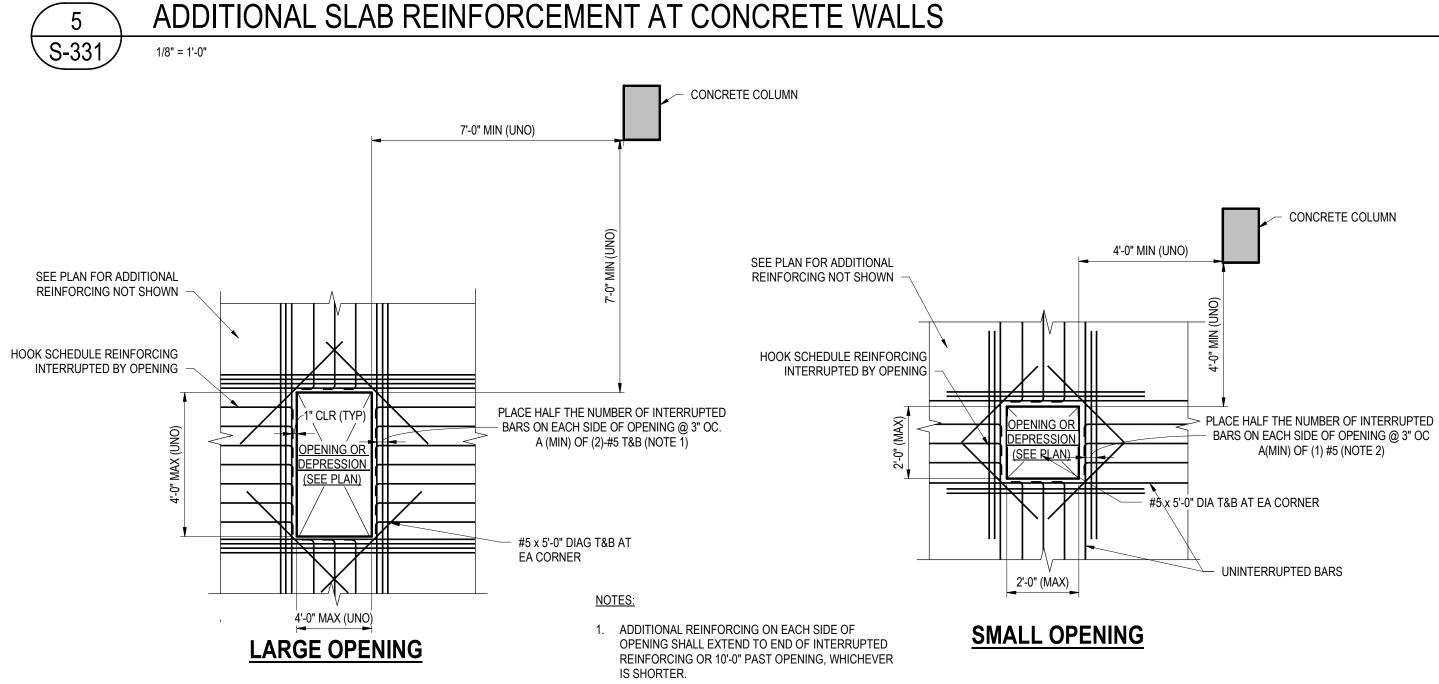


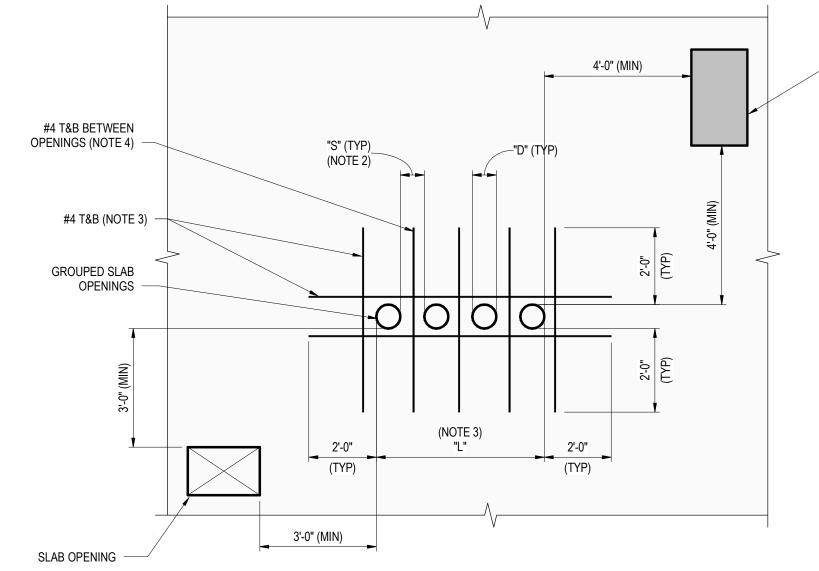


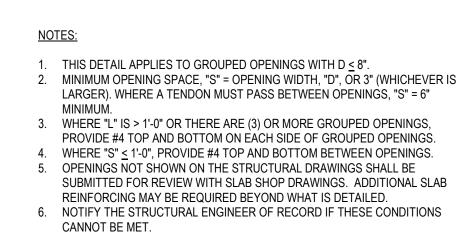


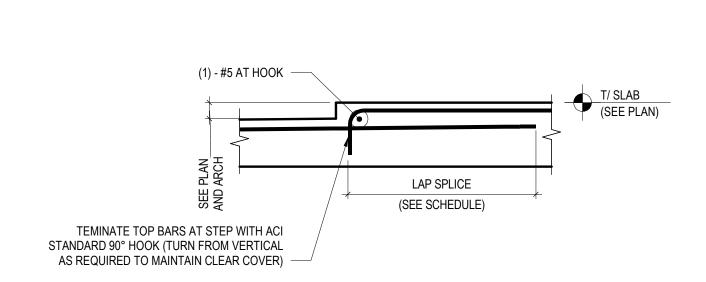
- 1. CONVENTIONAL TOP BAR REINFORCEMENT AS NOTED ON PLAN IN THE BANDED DIRECTION SHALL BE PLACED IN THE SAME LAYER AS THE BANDED POST TENSION TENDONS.
- CONVENTIONAL TOP BAR REINFORCEMENT AS NOTED ON PLAN IN THE UNIFORM DIRECTION SHALL BE PLACED IN THE SAME LAYER AS THE UNIFORM POST TENSION TENDONS, AND SHALL BE DIRECTLY BELOW THE BANDED LAYER.
- WHERE UNIFORM TENDONS ARE LOCATED FAR ENOUGH FROM THE COLUMN CENTERLINE TO NOT CONFLICT WITH BANDED TENDONS OR REINFORCEMENT, UNIFORM TENDONS SHALL BE LOCATED ABOVE THE BANDED TENDONS TO ACHIEVE THE



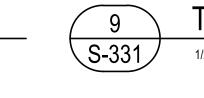




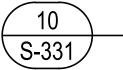




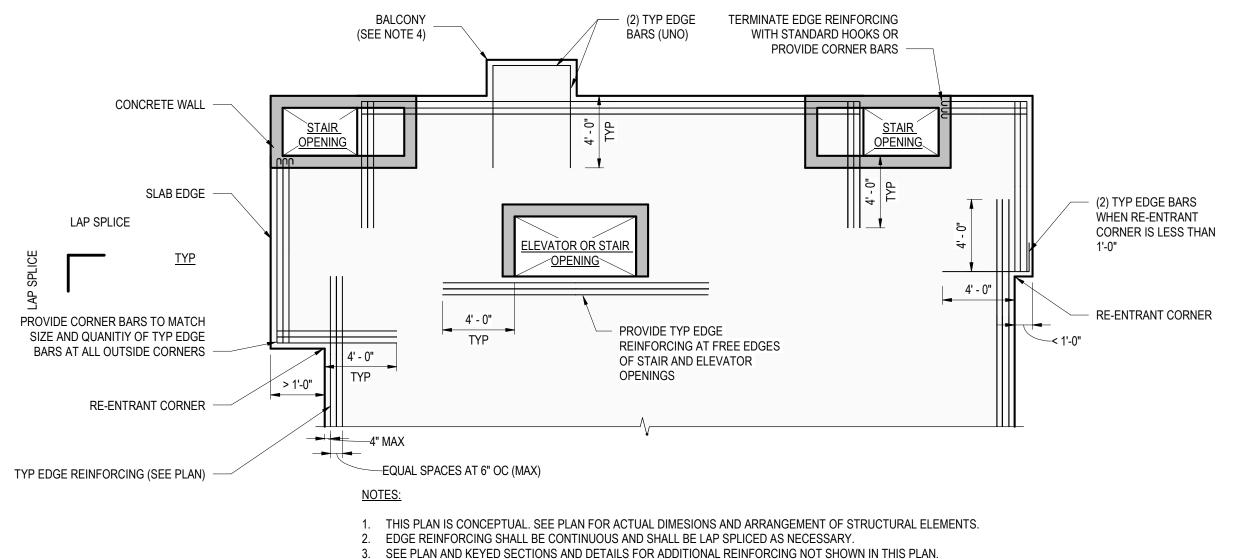




TYPICAL GROUPED OPENING REINFORCING AT POST-TENSIONED SLAB - PLAN



REBAR TRANSITION AT SLAB STEP



4. ALL BALCONY REINFORCEMENT, INCLUDING EDGE REINFORCEMENT, SHALL BE GALVANIZED.

TYPICAL ELEVATED SLAB EDGE REINFORCING CONCEPTUAL PLAN



TOP REINFORCING

BOTTOM REINFORCING

(SEE PLAN)

(SEE PLAN)

TYPICAL PT REINFORCEMENT **DETAILS** TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE

DESIGN

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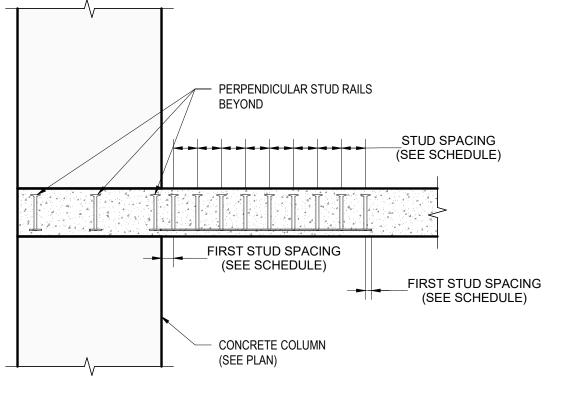
CONSTRUCTION

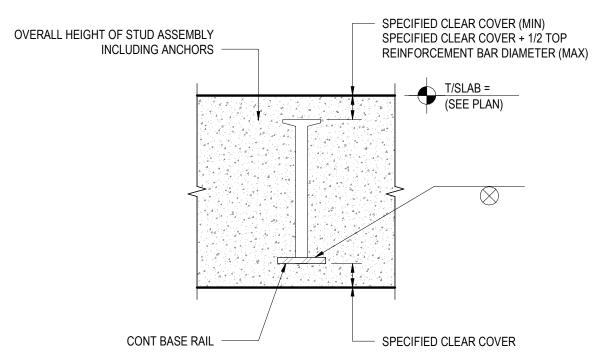
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\S-331/

MATERIAL SPECIFICATIONS. 12/1/2025 6:02:23 PM

APPLICABLE BUILDING CODES AND





SHEAR STUD RAIL SCHEDULE							
MADIZ	FIRST STUD	TYP STUD	# OF STUDS PER		OF RAILS		
MARK 3SR-6(3-4)	SPACING	SPACING	RAIL	SHORT SIDE	LONG SIDE		
· ,		3"	10	3	4		
3SR-10(4-4)	2 3/4"	J	10	4	4		
4SR-6(3-3)	2 3/4"	4"	6	3	3		
4SR-8(3-3)	2 3/4"	4"	8	3	3		

TYPICAL STUD RAIL SECTION

TYPICAL SHEAR STUD RAIL LAYOUT -

TYPICAL SHEAR STUD LAYOUT - SECTION S-332

12/01/25 CONSTRUCTION DOCUMENTS

08/22/25 DESIGN
DEVELOPMENT
NO. DATE DESCRIPTION



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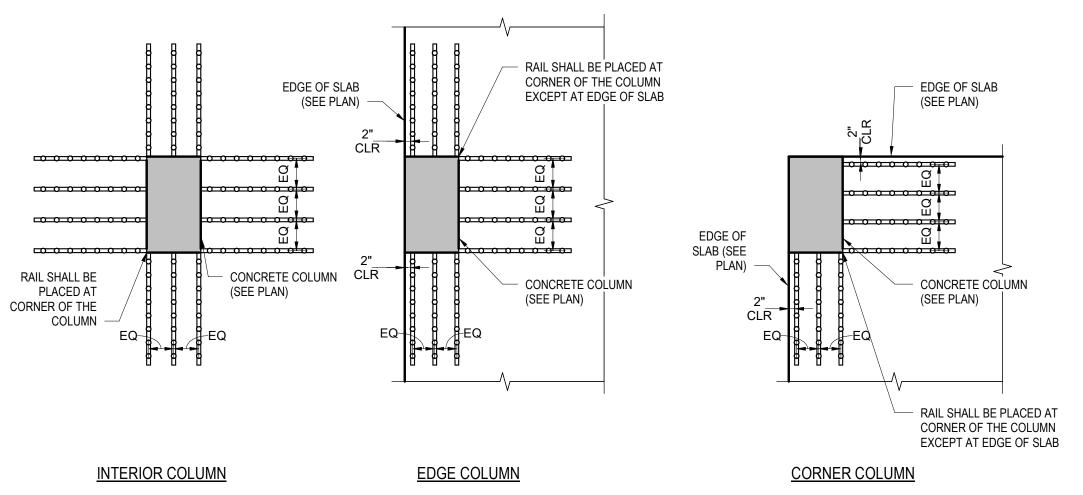
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Project No.: 2021009 Date:

TYPICAL PT SHEAR STUD **RAILS**

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE



TYPICAL ELEVATION

S-332

ELEVATION

3/4" = 1'-0"

TYPICAL SHEAR STUD RAIL CONFIGURATIONS - PLAN S-332 3/8" = 1'-0"

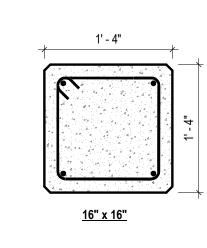
1615 FORUM PLACE, SUITE 3A WEST PALM BEACH, FL 33401 T 561.622.8585 **DETAILS** www.jezerinacgroup.com CERTIFICATE OF AUTHORIZATION FL #30785 JG Project #: 21.18.004

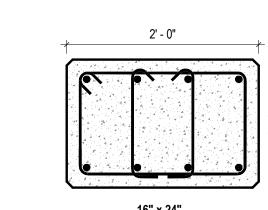
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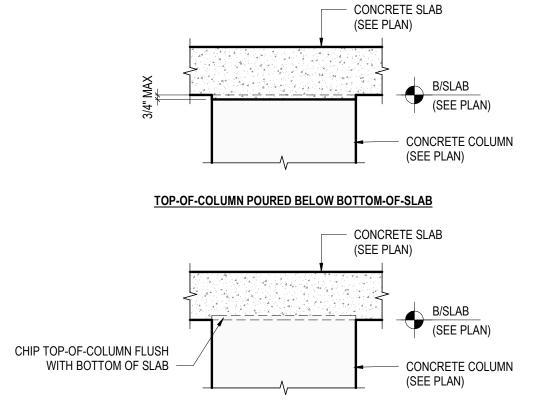
GROUP

CONCRETE COLUMN AT ROOF





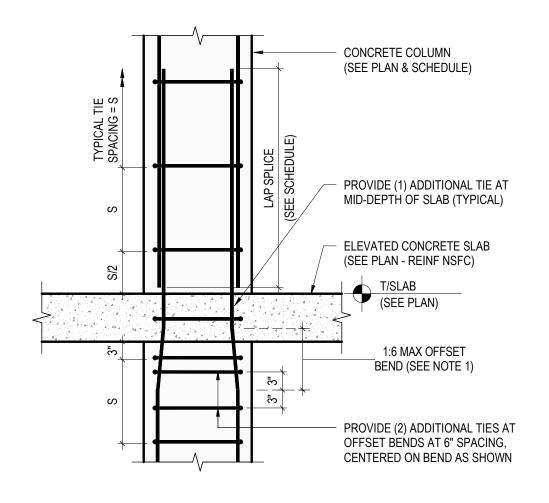
Туре	GEOMETRY		REINFORCING		DEMARKS
	WIDTH	DEPTH	VERTICAL	TIES	REMARKS
CC1616	16"	16"	(4) #8	#3 @ 14" OC	
CC1624	16"	24"	(8) #7	#3 @ 14" OC	

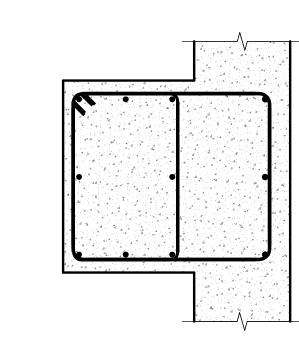


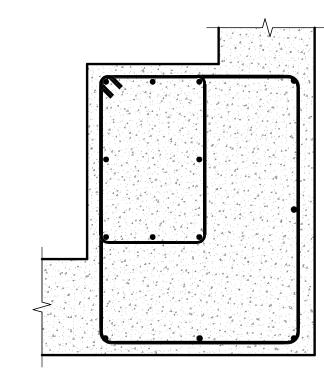
1. DEVIATION FROM MAXIMUM TOLERANCES SHOWN ABOVE SHALL BE CORRECTED PRIOR TO

S-340

COLUMN PLAN DETAILS S-340/ 1" = 1'-0"







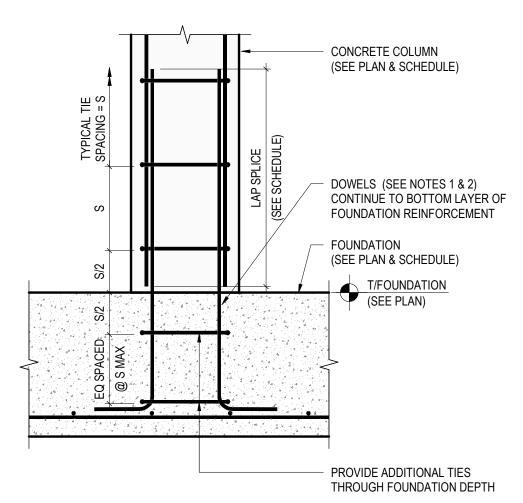
NOTES:

1. OFFSET BARS SHALL BE BENT PRIOR TO PLACEMENT IN COLUMN FORMS



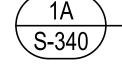






NOTES:

1. DOWELS SHALL MATCH SIZE & QUANTITY OF COLUMN VERTICAL REINFORCEMENT ABOVE 2. DOWELS SHALL BE PLACED FOR A CONTACT LAP SPLICE WITH VERTICAL REINFORCEMENT ABOVE IN-LINE WITH FACE-OF-COLUMN (DO NOT OFFSET FROM FACE-OF-COLUMN). AT RECTANGULAR COLUMNS, OFFSET SHAL BE ALONG THE "LONG FACE" OF THE COLUMN AS SHOWN BELOW



S-340

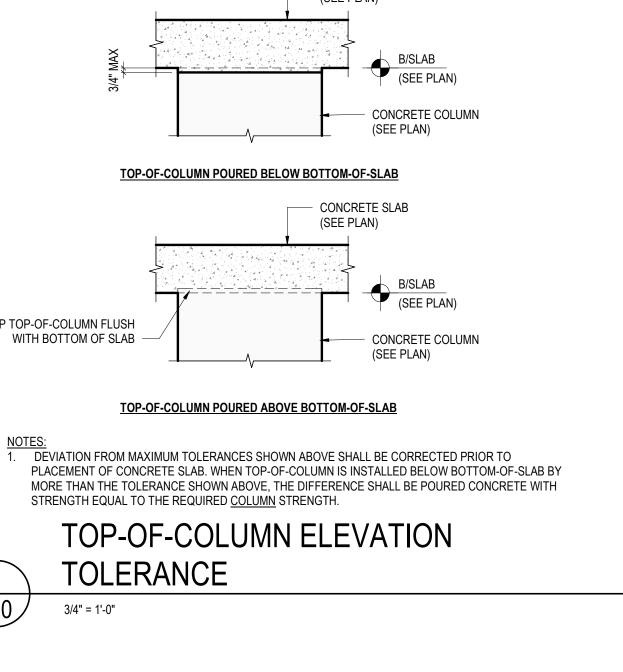
3/4" = 1'-0"

CONCRETE COLUMN AT FOUNDATION 3/4" = 1'-0"



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08/22/25 DESIGN

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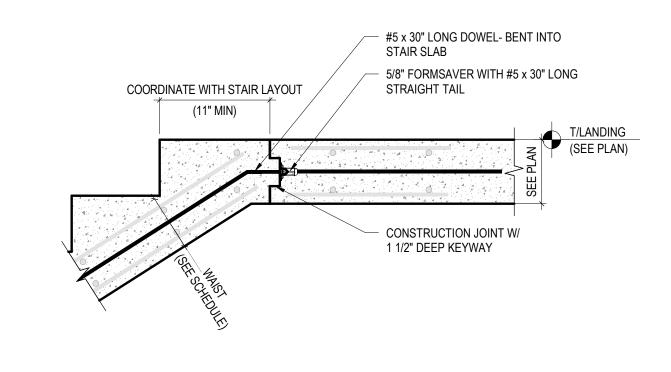
Project No.: 2021009 Date: 12/01/2025 **TYPICAL**

CONCRETE

COLUMN

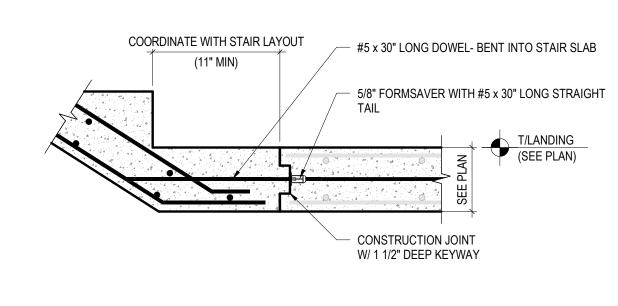
DETAILS

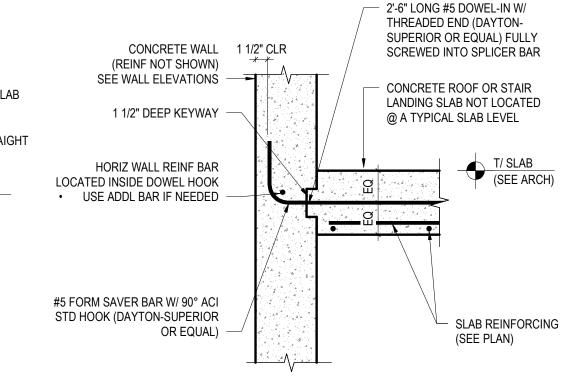
TYPICAL CAST-IN-PLACE CONCRETE STAIR DETAILS



STAIR DOWN TRANSITION AT LANDING

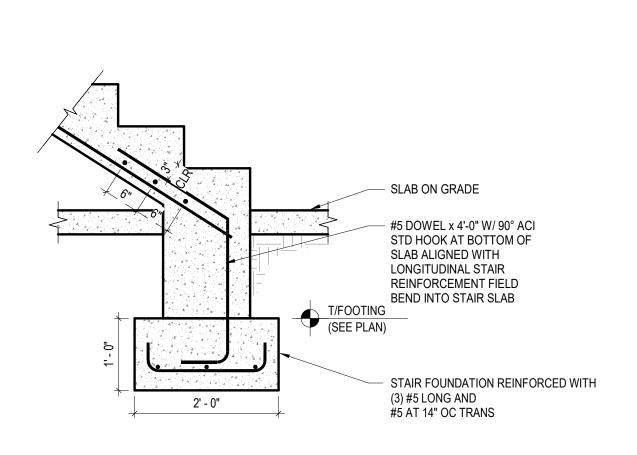
S-350

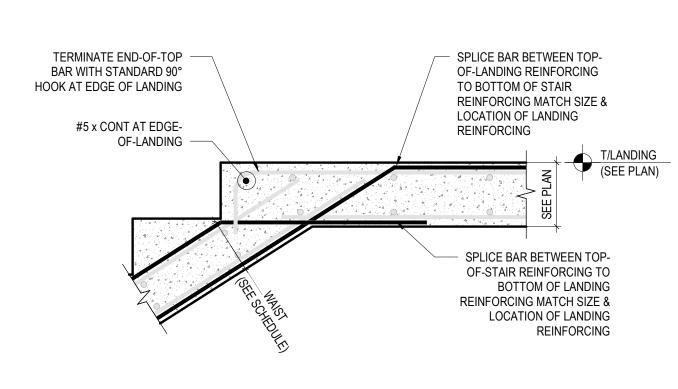


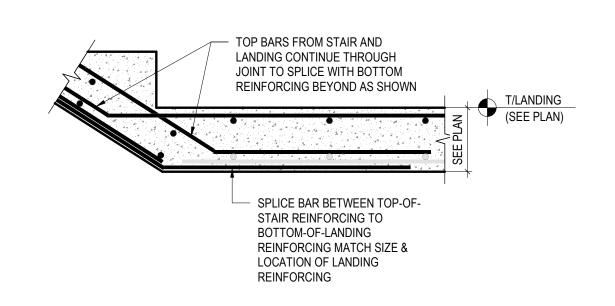


STAIR UP TRANSITION AT LANDING

INTERMEDIATE SLAB ATTACHMENT S-350







S-350

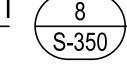
S-350

1" = 1'-0"

CONCRETE STAIR DETAIL

S-350

STAIR DOWN TRANSITION AT MIDHEIGHT



S-350

SEE OVERALL SECTION

FOR TRANSVERSE VS

LONGITUDINAL

TRANSVERSE

#5 @ 8" OC T&B

#5 @ 8" OC T&B

(6) - #5 T&B

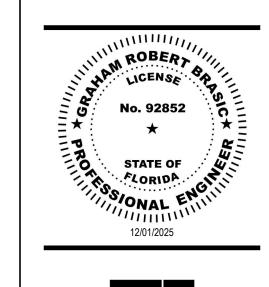
#5 @ 18" OC T&B

#5 @ 18" OC T&B

LANDING

L-SHAPED

STAIR UP TRANSITION AT MIDHEIGHT



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> CONCRETE **STAIR DETAILS**

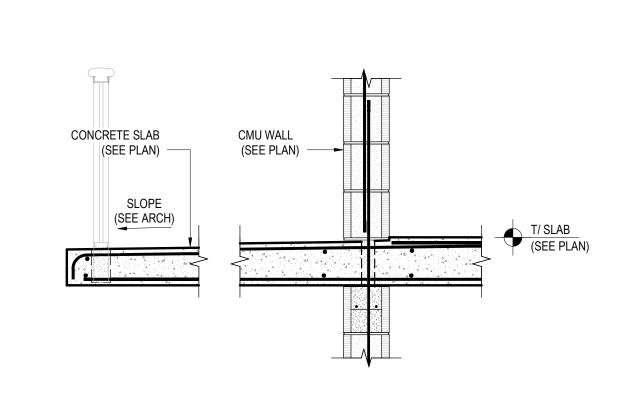
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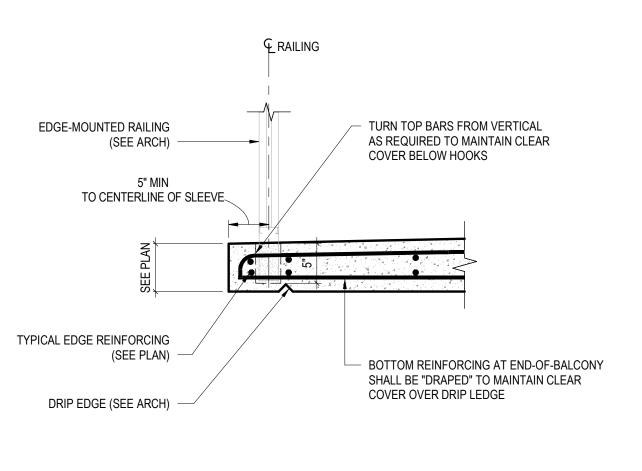
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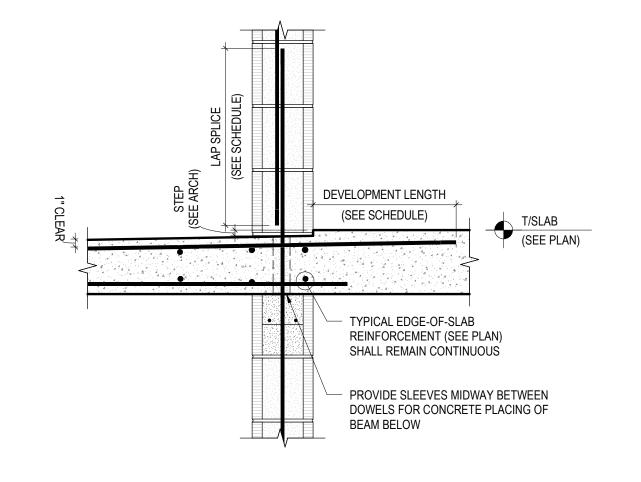


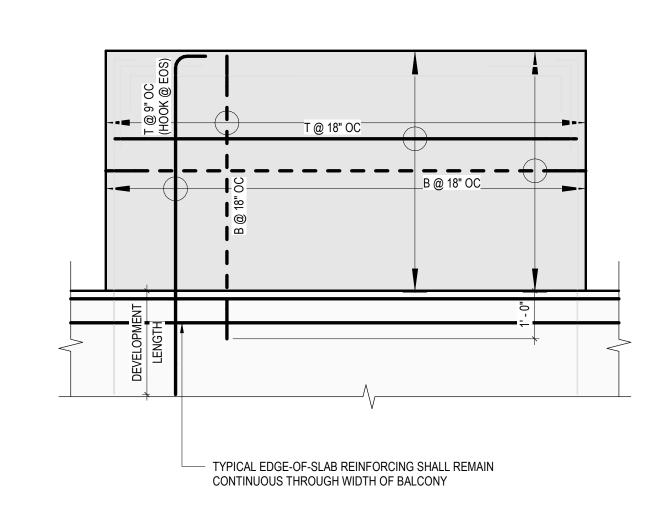
TYPICAL BALCONY FRAMING

S-360

3/4" = 1'-0"







NOTES:

1. BALCONY RAILING SHALL BE INSTALLED IN SLEEVES/BLOCKOUTS WITHIN THE SLAB POUR. CORING OF THE SLAB SHALL NOT BE PERMITTED UNLESS IT CAN BE DEMONSTRATED THAT REINFORCING AND TENDONS CAN BE PLACED AND LOCATED ACCORDINGLY SUCH THAT CORE DRILLING AND INSTALLATION OPERATIONS DO NOT DAMAGE THESE ELEMENTS.

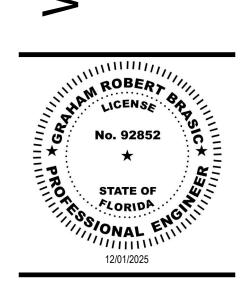
EDGE OF BALCONY SECTION

S-360

1" = 1'-0"







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TYPICAL CONCRETE FRAMING DETAILS

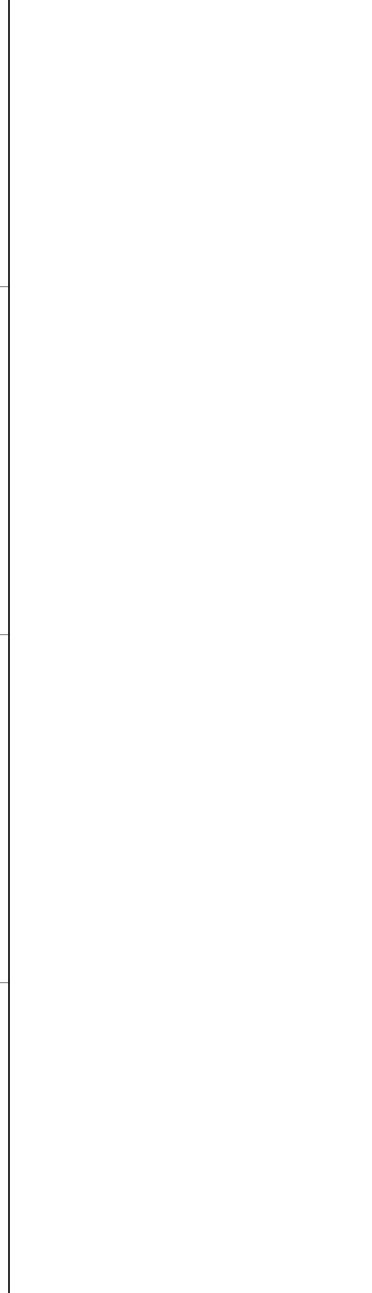
S-360

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S-360

3/4" = 1'-0"

NOTES:

1. WALL IS DESIGNED FOR A DRAINED CONDITION. POSITIVE WALL DRAINAGE IS REQUIRED (SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS). PROVIDE PERVIOUS BACKFILL MATERIAL COMPACTED IN LIFTS PER GEOTECHNICAL REQUIREMENTS. WALL SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
 PROVIDE VERTICAL JOINTS IN WALL STEM PER TYPICAL DETAIL.

S-370

1/2" = 1'-0"

TYPICAL BASEMENT RETAINING WALL

S-370

3/4" = 1'-0"

VERTICAL REINFORCING (SEE SCHEDULE) -HORIZONTAL REINFORCING (SEE SCHEDULE) VERTICAL DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING. -CONCRETE SLAB-ON-GROUND (SEE PLAN) T/FOUNDATION (SEE PLAN) SEE PLAN AND FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT 5' - 0"

TYPICAL RETAINING WALL FOUNDATION /

	HOOK TOP-OF-SLAB REINFORCEMENT AT EDGE OF SLAB (TYPICAL) POST-TENSIONED CONCRETE SLAB (SEE PLAN) T/SLAB (SEE PLAN)
#5 DOWEL CENTERED IN THICKNESS OF WALL BELOW, CAST INTO WALL POUR. DOWEL SPACING SHALL BE ONE HALF OF THE TYPICAL VERTICAL WALL REINFORCEMENT SPACING BELOW	SMOOTH TROWEL TOP-OF-WALL AND INSTALL BOND BREAKER PRIOR TO SLAB PLACEMENT 2" LR CLR

3	SLEEVED SLIP CONNECTION
-370	3/4" = 1'-0"

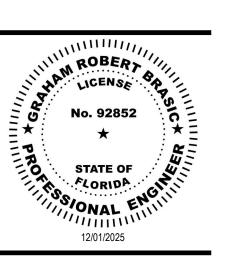
RETAINING WALL SCHEDULE WALL REINOFRCEMENT VERTICAL 1' - 0" #6 @ 12" OC EACH FACE #5 @ 12" OC EACH FACE RETAINING WALL FOOTING SCHEDULE

MARK THICKNESS WIDTH TOE LENGTH TRANSVERSE LONGITUDINAL

RF9-12 12" 9' - 0" 1' - 0" #5 @ 12" OC #5 @ 12" OC

FOOTING REINFORCEMENT

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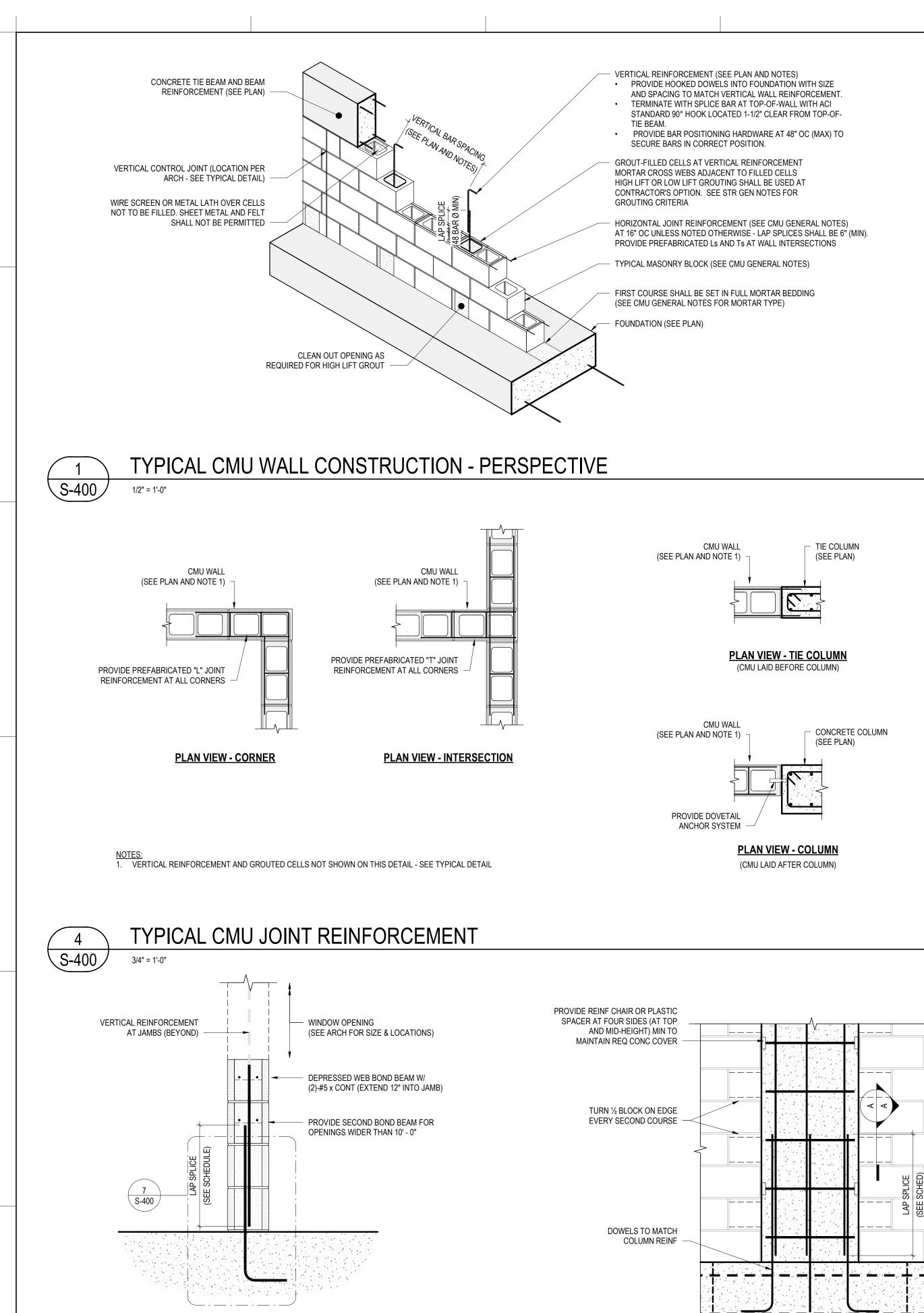
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TYPICAL RETAINING WALL **DETAILS**



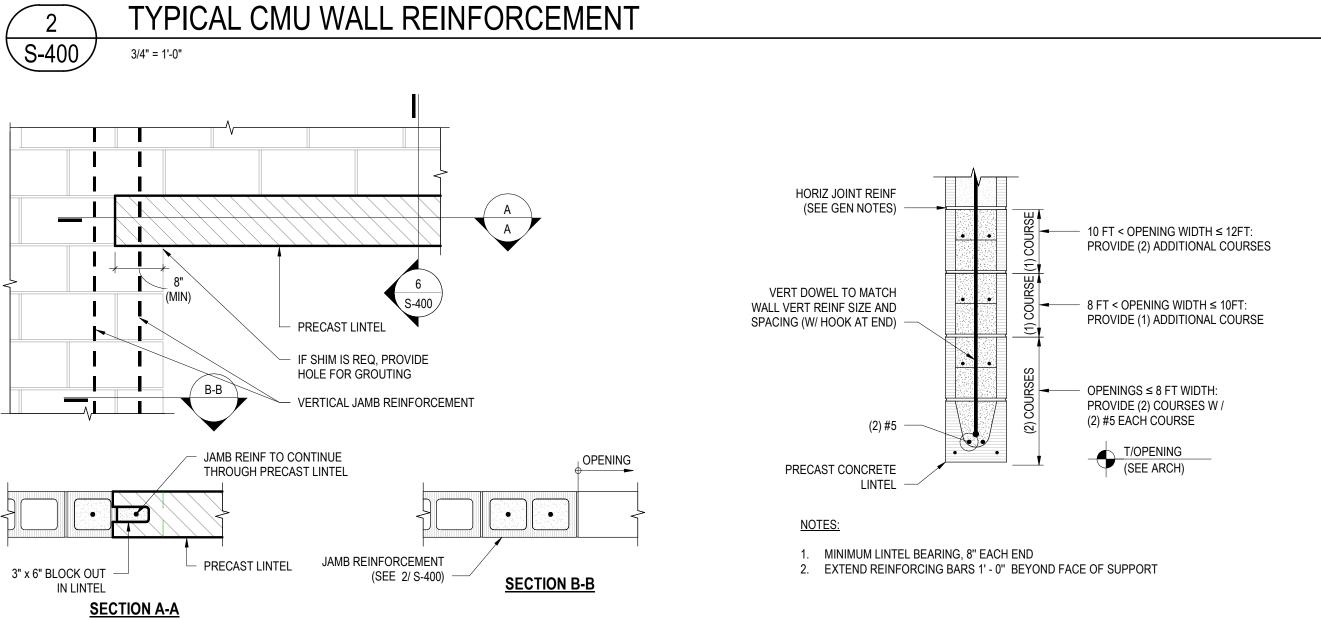
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CMU SILL - SECTION

S-400

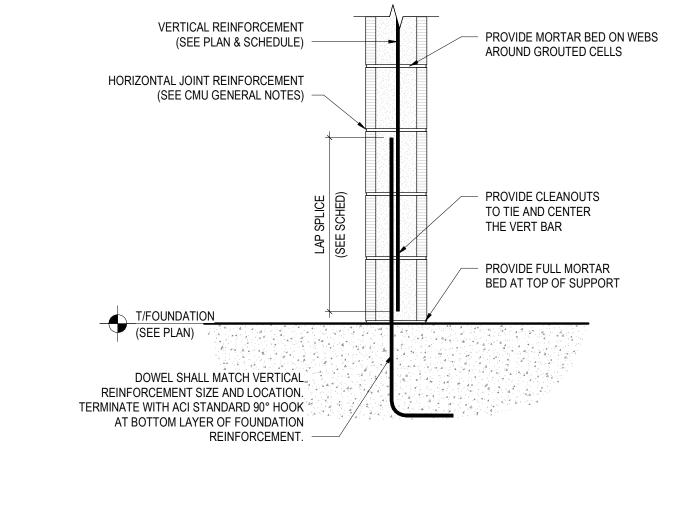


(1) BAR AT INTERSECTION

1. HORIZONTAL JOIINT REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "MASONRY NOTES" FOR JOINT REINFORCEMENT,

AT INTERSECTIONS

INCLUDING PREFABRICATED CORNERS AND TEES. 2. BUILD ALL INTERSECTIONS AND CORNERS IN RUNNING BOND.



CONT TIE BEAM

(1) BAR EA SIDE OF JOINT

(SEE SCHED FOR SIZE) -

VENEER CONTROL JOINTS WHERE APPLICABLE.

REINF THRU JOINT -

STOP BOND BEAM REINF

(3)-BARS AT CORNER

EA SIDE OF JOINT

FOLLOWS:

PLACEMENT.

S-400

3/8"x1" VERT JOINT EA

DO NOT MORTAR JOINT, BACK-UP

ROD AND CAULK (PER ARCH)

SIDE OF TIE BEAM

AT TIE BEAM

TYPICAL

1. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SHALL MATCH

WHERE NOT EXPLICITLY NOTED OR SHOWN OTHERWISE, LOCATE CONTROL JOINTS AS

4. GC SHALL SUBMIT SHOP DRAWINGS OF CONTROL JOINT LAYOUTS PRIOR TO OR ALONG WITH FOUNDATION REBAR SHOP DRAWINGS FOR APPROPRIATE COORDINATION WITH DOWEL

EACH SIDE OF OPENINGS UNLESS SPECIFICALLY NOTED OTHERWISE.

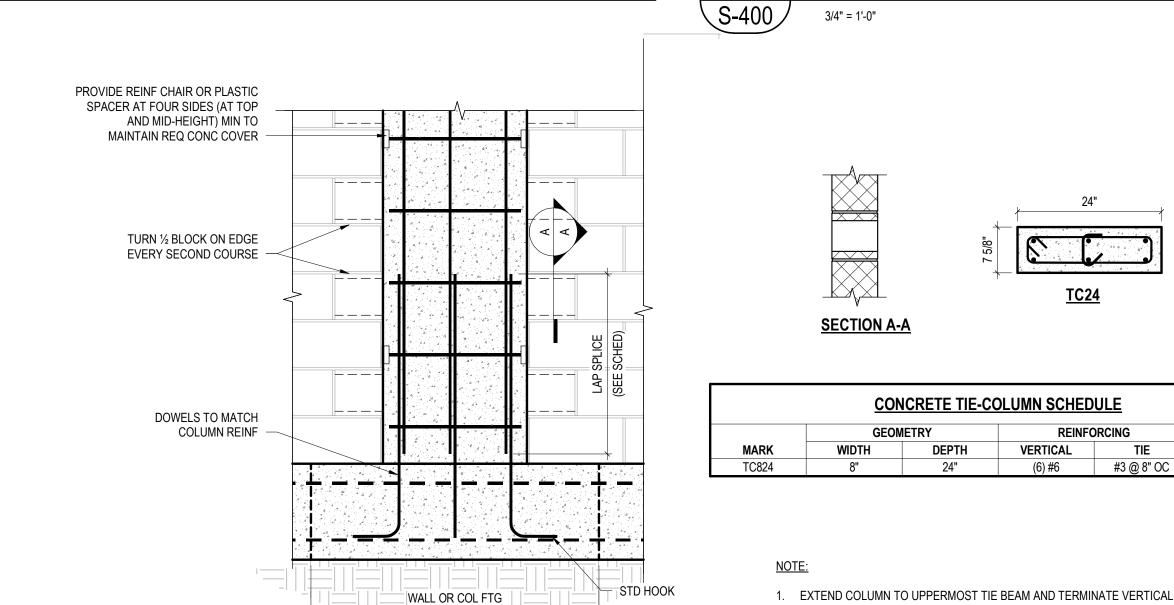
CMU CONTROL JOINTS

SPACING NOT TO EXCEED 20'-0" IN CONTINOUS WALLS

 AT LOCATIONS WHERE WALL HEIGHT CHANGES AT LOCATIONS WHERE WALL THICKNESS CHANGES

LOCATED NOT FURTHER THAN 10'-0" FROM WALL CORNERS

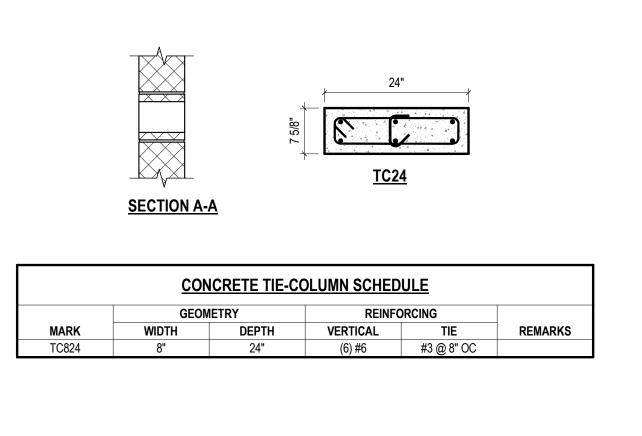
CONTROL JOINTS SHALL NOT BE LOCATED THROUGH OPENINGS OR LINTEL BEARINGS LENGTHS



TYPICAL CONCRETE TIE COLUMN

S-400

3/4" = 1'-0"



CMU PRECAST LINTEL

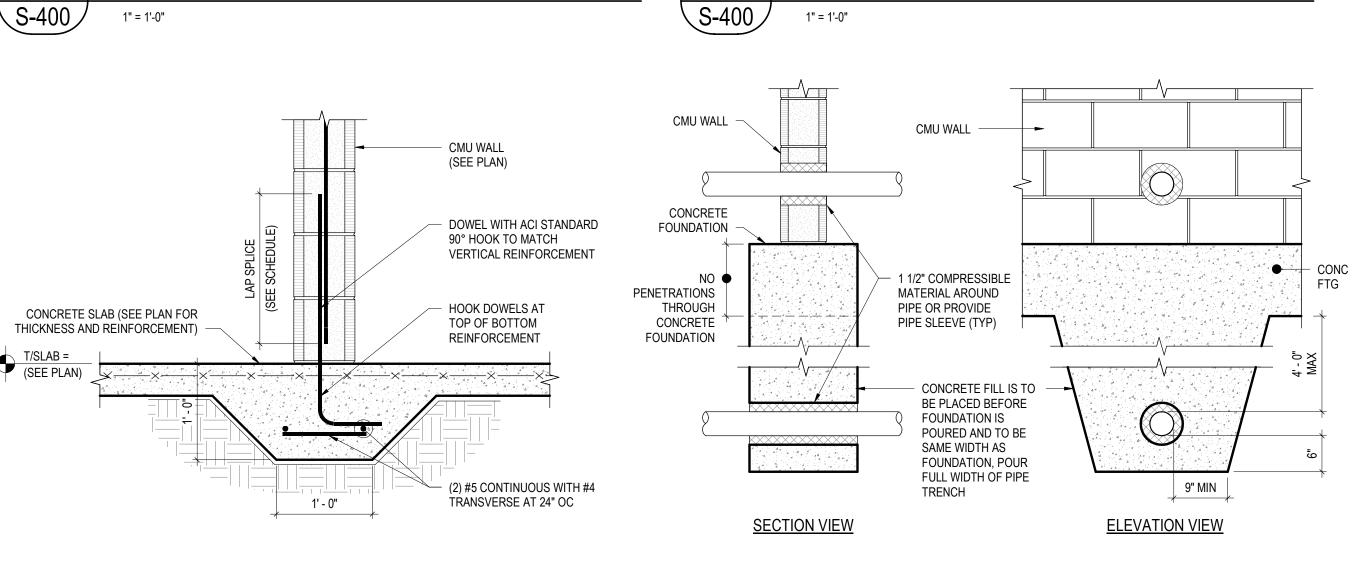
(3)-BARS AT CORNER

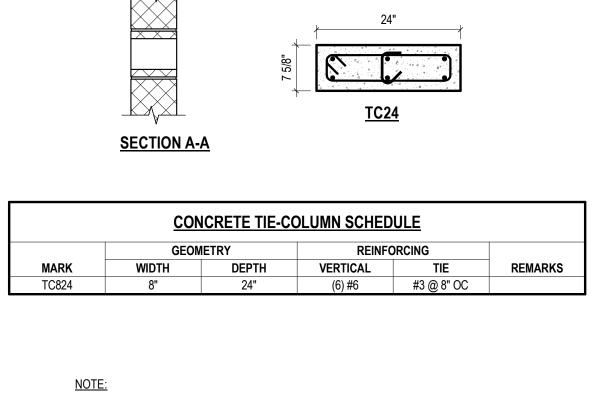
BARS CENTERED IN GROUT-FILLED CELLS

AT CORNERS

(UNLESS NOTED OTHERWISE)

TYPICAL





REINFORCEMENT WITH STANDARD HOOK 3" FROM TOP OF THE BEAM



TYPICAL CMU LINTEL AT OPENING

(1) BAR IN THIRD CELL ADJACENT TO OPENINGS WIDER THAN 10' - 0" OR WHERE

(2) BARS TYPICAL

AT OPENINGS

WALL IS (3) CELLS BETWEEN OPENINGS

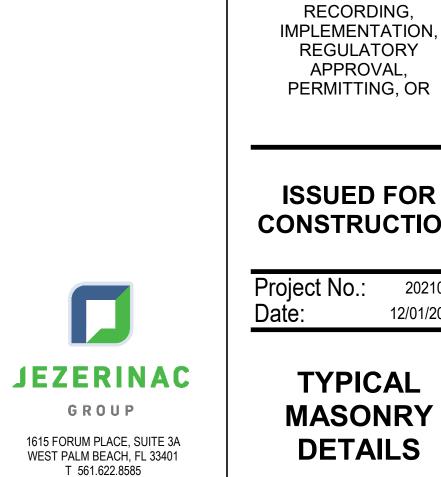
CUT BLOCK AS

REQUIRED

AT NON-ORTHOGONAL CORNERS



BASE-OF-CMU WALL CONNECTION



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SPECIFICATIONS COMPLY WITH THE

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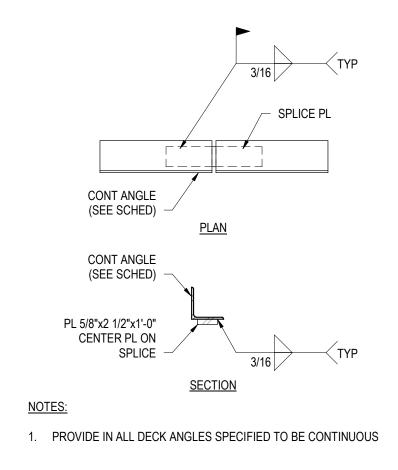
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MASONRY DETAILS

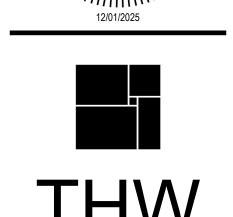


DIVIDER BEAM CONNECTION S-500

CONTINOUS ANGLE SPLICE DETAIL S-500 1" = 1'-0"

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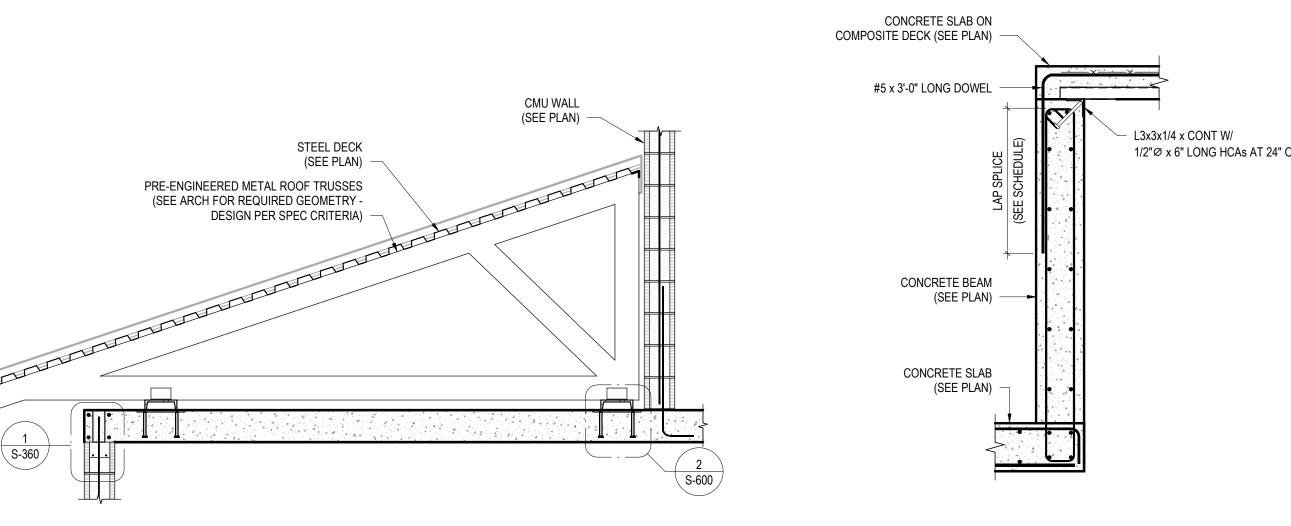
> **STEEL FRAMING DETAILS**

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JG Project #: 21.18.004 **S-500**

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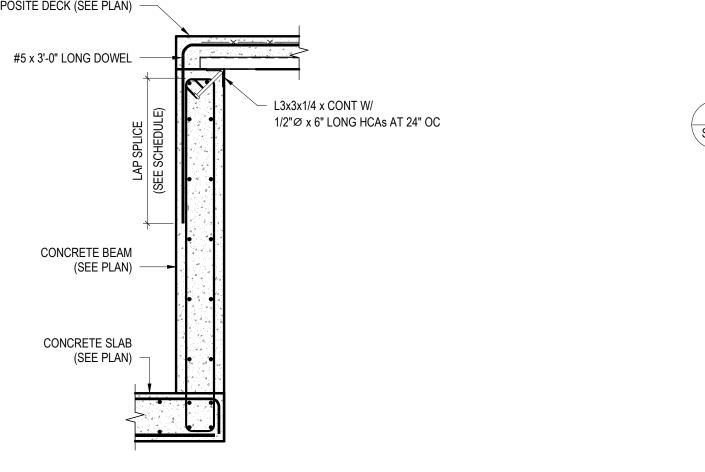
MATERIAL SPECIFICATIONS. 12/1/2025 6:02:28 PM

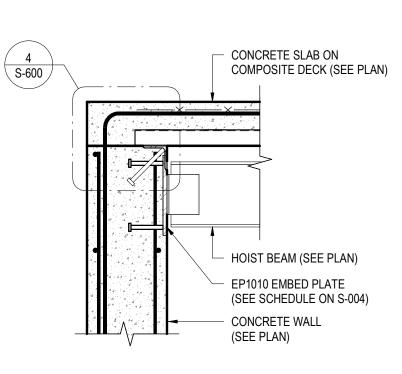


S-600

LOW ROOF SECTION

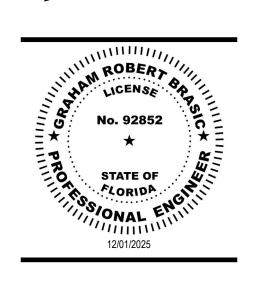
1/2" = 1'-0"





ELEVATOR POP-UP CAP-TO-BEAM CONNECTION

ELEVATOR POP-UP CAP - SECTION S-600



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> **ROOF FRAMING DETAILS**

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