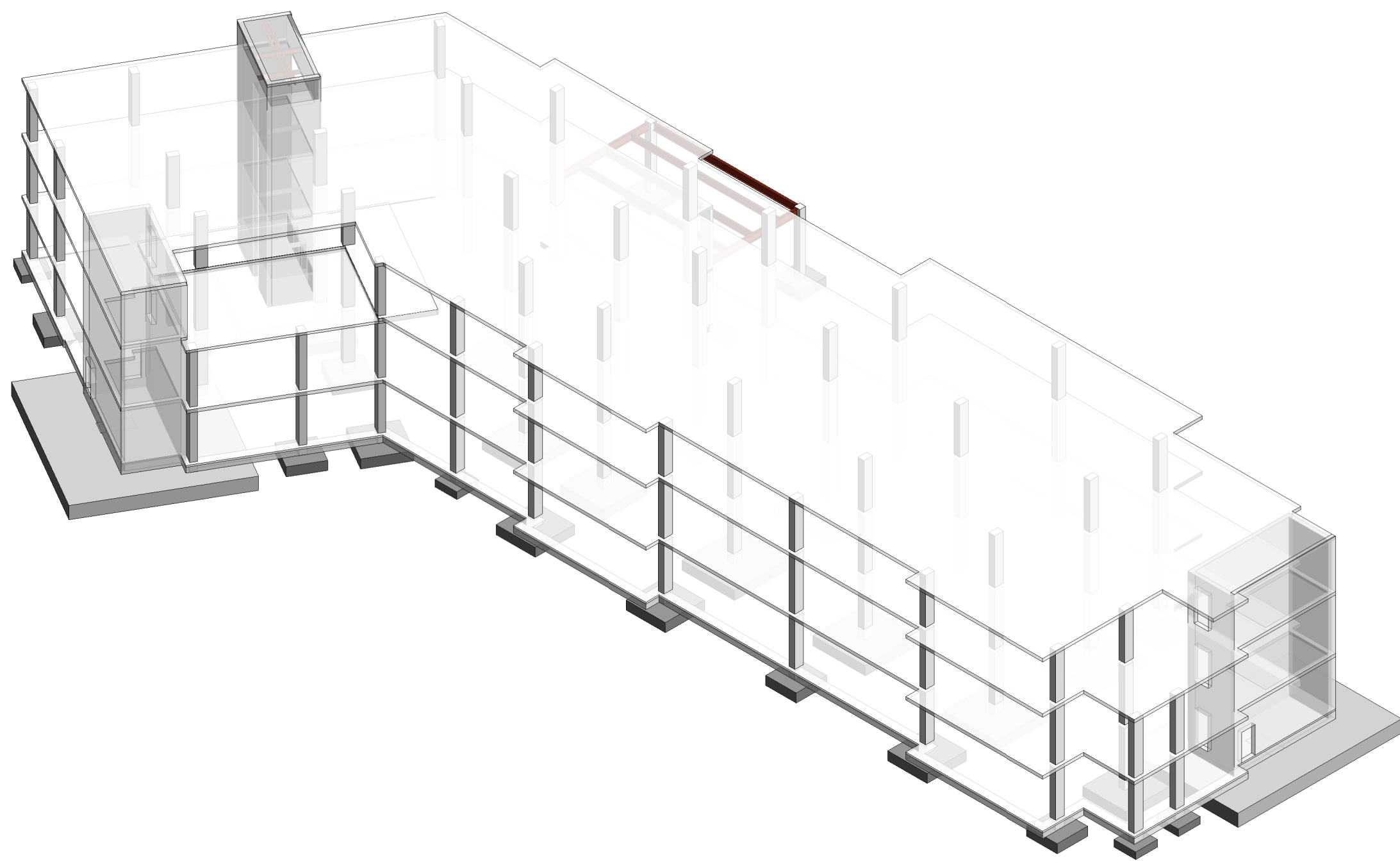


ISOMETRIC VIEW - FOR REFERENCE ONLY



ISOMETRIC VIEW - FOR REFERENCE ONLY

## GENERAL REQUIREMENTS

- THE GENERAL STRUCTURAL NOTES EMPLOY THE FOLLOWING DEFINITIONS AND ABBREVIATIONS:
- A. CONTRACT DOCUMENTS – THE LATEST SET OF DRAWINGS, SPECIFICATIONS, AND RECORDED ADDENDA AND ENGINEERING ISSUED FOR THE PROJECT.
- B. LICENSED PROFESSIONAL (STRUCTURAL) ENGINEER – AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND QUALIFIED TO PERFORM THE WORK REQUIRED.
- C. DESIGN ENGINEER OR RECORDAL ENGINEER – THE DESIGN ENGINEER WHO IS IN A RESPONSIBLE CHARGE FOR THE PREPARATION, SIGNING, DATING, SEALING, AND ISSUING OF STRUCTURAL ENGINEERING DOCUMENTS FOR ENGINEERING SERVICE OR CREATIVE WORK.
- D. DELEGATED ENGINEER – AN ENGINEERING PROFESSIONAL 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 INTO ONE OF THE FOLLOWING CATEGORIES:
- 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 THE CONSTRUCTION PROJECT
- E. DELEGATED ENGINEERING DOCUMENTS – ENGINEERING DOCUMENTS THAT ARE PREPARED BY A DELEGATED ENGINEER.
- F. DESIGN TEAM – DESIGN PROFESSIONALS INCLUDING THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER, MEP ENGINEER, AND ANY OTHER CONSULTANT THAT ISSUES CONTRACT DOCUMENTS.
- G. CONTRACTOR – GENERAL CONTRACTOR, CONSTRUCTION MANAGER, DESIGN BUILDER, OR ANY OTHER ENTITY THAT IS EMPLOYED BY THE OWNER TO PERFORM THE CONSTRUCTION.
- H. SHOP DRAWINGS – DRAWINGS OF THE PROPOSED INSTALLATION METHODS AND METHODS AND CATALOG INFORMATION ON STANDARD PRODUCTS. SHOP DRAWINGS SHALL BE PREPARED BASED ON ENGINEERING DIRECTION AND STANDARDS IN CONTRACT DOCUMENTS BY A CONTRACT FABRICATOR, MANUFACTURER, OR LICENSED PROFESSIONAL ENGINEER, FOR AN INDENT TO THE PROJECT.
- I. ESTABLISHED CONDITIONS – FOR THE NOTICE OF THE PROJECT ARCHITECT, OWNER, AND CONTRACTOR SHALL BE THE DESIGN DESIRABLES OF THE DESIGN TEAM FOR ALL PROJECT PARTIES. THESE AGREED UPON GENERAL CONDITIONS OF COMMUNICATION ARE ESTABLISHED CHARTERS.
- J. GENERAL STRUCTURAL NOTES ARE APPLICABLE TO THE DESIGN AND CONSTRUCTION OF THE ENTIRE PROJECT AND THUS ARE APPLICABLE TO EVERY SHEET WITHIN THIS SET.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT, OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS, UNLESS NOTED OTHERWISE.
- L. ISOMETRIC VIEWS ARE FOR VISUALIZATION PURPOSES ONLY AND DO NOT CONVEY ALL OF THE REQUIREMENTS OF THE PROJECT.
- M. THE CONTRACTOR SHALL 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 CONFLICT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RESOLVE. IF A CONFLICT OCCURS DURING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR CLARIFICATION TO THE DESIGN TEAM, WHO WILL PROVIDE A WRITTEN RESPONSE IN RETURN.
- N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT BY THE STRUCTURAL ENGINEER OF RECORD AND ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.
- O. SPECIFICATIONS FOR MATERIALS TESTING REQUIREMENTS.
- P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, METHODS, PROCEDURES, TECHNIQUES, AND ALL WORK. THE CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE QUALITY AND CORRECTNESS OF THE WORK.
- Q. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- R. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- S. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- T. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- U. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- V. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- W. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- X. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- Y. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- Z. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AG. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AI. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AJ. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AQ. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AU. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AV. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, AND MEP FOR FLOOR SLAB STEPS, SLOPES AND CORNERS, FLOOR SLAB FINISH, OPENINGS IN STRUCTURAL FLOORS, ROOFS AND WALLS, ETC.
- AX. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF

## ELECTRONIC DATA/REPRODUCTION

- 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 THAN THE INTENDED PURPOSE. ANY REPRODUCTION OR REUSE OF THE PROJECT BY OTHER ELECTRONIC FILES OF THE STRUCTURAL DOCUMENTS WILL REMAIN THE PROPERTY OF JEZERINAC GROUP AND IN NO CASE SHALL THEIR TRANSFER BE CONSIDERED A SALE.
- THE CONTRACTOR SHALL NOT REPRODUCE OR REUSE THE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFYING THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT AND OBLIGATES THEMSELVES TO ANY JOINT EXPENSE, LOSS, OR LIABILITY, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREIN. THE CONTRACTOR DOES NOT RELY ON, OR COME UNDER THE CONTRACTOR'S RESPONSIBILITY FOR PROPER CHECKING AND COORDINATION OF DIMENSIONS, DETAILS, SIZE, AND QUANTITIES.
- DIMENSIONS AND ELEMENT SIZES AND LOCATIONS IN THE ELECTRONIC FILES MAY NOT BE PRECISE AND, IN SOME CASES, MAY BE IN CONFLICT WITH THE DRAWINGS. THEREFORE, DO NOT SCALE DIMENSIONS ELECTRONICALLY OR OTHERWISE.
- D. WHEN USED FOR THE PREPARATION OF SHOP DRAWINGS, ALL INFORMATION NOT APPLICABLE TO THE SUBMITTAL SHALL BE REMOVED FROM THE DRAWINGS, INCLUDING, BUT NOT LIMITED TO: SHEET NUMBERS, SECTION MARKS, TITLE BLOCKS, AND REFERENCES TO THE CONTRACT DOCUMENTS.
- SUBMITTALS**
- A. REFER TO DIVISION 01 OF SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND REQUIREMENTS. REFER TO THE APPLICABLE SPECIFICATION SECTIONS FOR TECHNICAL CONTENT.
- B. THE CONTRACTOR SHALL SUBMIT COMPONENTS SUCH AS COLUMNS, FOUNDATIONS ETC. IN A SINGLE PACKAGE. SUBMIT SIMILAR FOLDERS TOGETHER.
- C. [TEN] WORKING DAYS PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT, FOR REVIEW AND APPROVAL, THE FOLLOWING: THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD SHALL ESTIMATE THE 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 FIVE (5) SHOP DRAWING SCHEDULE SHALL BE DETERMINED AND SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD IN WRITING THE SHOP DRAWING SCHEDULE. THE STRUCTURAL ENGINEER OF RECORD WILL REVIEW THE SHOP DRAWING ITEMS WITHIN TEN WORKING DAYS AFTER HAVING RECEIVED THE REPRODUCIBLE SHOP DRAWINGS.
- D. THE CONTRACTOR SHALL SUBMIT EACH SHOP DRAWING SET IN TWO FORMATS: HARD COPY AND ELECTRICAL AND STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING IS ADDRESSED:
- F. THE SUBMITTAL IS REQUESTED;
- F. THE SUBMITTAL IS BASED ON THE LATEST DESIGN.
- F. THE SUBMITTAL IS CLEARLY CLOUED FOR ALL THE DIFFERENCES FROM THE CONTRACT DOCUMENTS ON THE SUBMITTAL INDEX.
- F. THE SUBMITTAL IS CLEARLY CLOUED FOR ALL CHANGES AND ADDITION FROM PREVIOUS SUBMITTAL.
- F. THE ARCHITECTS AND STRUCTURAL ENGINEER OF RECORDS COMMENTS FROM ANY PREVIOUS SUBMITTALS IS ADDRESSED.
- F. THE WORK IS COORDINATED AMONGST ALL CONSTRUCTION TRADES.
- F. THE SUBMITTAL IS COMPLETE.
- F. THE SUBMITTAL NUMBER AND A STAMP INDICATING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER, AND SPECIFICATION SECTION NUMBER.
- F. THE STRUCTURAL ENGINEER OF RECORDS REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH THE SUBMITTAL INDEX.
- 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. THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD SHALL DESIGNATE A DESIGN REVIEWER, 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.
- H. THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD SHALL REVIEW THE SUBMITTALS FOR GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE CONTRACTOR SHALL SUBMIT THESE REVIEWED DEFERRED SUBMITTALS TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL NOT BE INSTALLED UNTIL THE DESIGN TEAM HAS REVIEWED AND THE BUILDING OFFICIAL HAS APPROVED. SEE BELOW FOR THE LIST OF DEFERRED SUBMITTALS.
- I. THE FOLLOWING SUBMITTALS ARE REQUIRED TO BE SUBMITTED FOR STRUCTURAL ENGINEER OF RECORD REVIEW AS OUTLINED IN THE SPECIFICATIONS:

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	(S, 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)
042000	MASONRY PRODUCT DATA	(S)
042000	MASONRY REINFORCEMENT LAYOUT	(S)
051000	STRUCTURAL STEEL	(S)
051200	STRUCTURAL STEEL CONNECTIONS	(DF, S, CALC)
051300	STEEL DECK	(S)
054000	COLD-FORMED METAL FRAMING USED FOR EXTERIOR SHORING AND RESHORING	(SS, CALC) (SEE ARCH)
054000	HANDRAIL, GUARDRAIL, RAILING	(DF, SS, CALC, REC)
054400	PRE-ENGINEERED GFS TRUSS SHOP DRAWINGS	(DF, S)
054400	PRE-ENGINEERED CFS TRUSS DELEGATED DESIGN SUBMITTAL	(DF, SS)
610000	ELEVATOR	(S, CALC, REC)
712319	DEWATERING	(GC, REC)

- S = SHOP DRAWING REQUIRED  
 SF = DEFERRED SUBMITTAL  
 SS = SIGNED AND SEALED SHOP DRAWINGS PREPARED BY A LICENSED DELEGATED ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.  
 CALC = SUPPORTING CALCULATIONS REQUIRED, SIGNED AND SEALED BY A LICENSED DELEGATED ENGINEER IN THE STATE IN WHICH THE PROJECT IS LOCATED.  
 REC = ITEMS SUBMITTED FOR RECORD ONLY AND WILL NOT HAVE STRUCTURAL ENGINEER OR 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

### GOVERNING CODES & STANDARDS

BUILDDING 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
	ACI 318	AMERICAN CONCRETE INSTITUTE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
	TMS 402	THE MASONRY SOCIETY: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
	ASCE 360	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
	ASCE 341	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS
	AWS D1.1	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE FOR STEEL
	AWS D1.3	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE FOR STEEL SHEET
	AWS D1.4	AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE FOR REINFORCING STEEL
	AISI S100	AMERICAN IRON AND STEEL INSTITUTE: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS

## ABBREVIATIONS

ADJ	ADDITIONAL	L	LENGTH
ADJ	ADJUNCT	LB(S)	POUNDS(S)
AFF	AFTER FINISHED FLOOR	L	LIVE LOAD
ALT	ALTERNATE	LLH	LONG LESS HORIZONTAL
APPROX	APPROXIMATE	LLV	LONG LESS VERTICAL
ARCH	ARCHITECT OR ARCHITECTURAL	LONG	LONGITUDINAL
ASD	ALLOWABLE STRESS DESIGN	LRFD	LOAD RESISTANCE FACTORED DESIGN
		LSH	LONG SIDE HORIZONTAL
B	BOTTOM OF	LSV	LONG SIDE VERTICAL
BB	BACK TO BACK	LTS	LAP TENSION SPlice
BLDG	BUILDING	LW	LIGHT WEIGHT
BLDG	BUILDING	LWC	LIGHT WEIGHT CONCRETE
BP	BASE PLATE		
BRG	BEARING	M	MOMENT
BUT	BOTTOM	MAX	MAXIMUM
BTWN	BETWEEN	MC	MOMENT CONNECTION(S)
		MECH	MECHANICAL
C	COMPRESSION	MEP	MECHANICAL, ELECTRICAL, PLUMBING
CFS	COLD-FORMED STEEL		FIRE PROTECTION
CI	CAST-IN-PLACE	MFR	MANUFACTURER
CJ	CONTROL JOINT	MD	MIDDLE
CJP	COMPLETE JOINT PENETRATION	MIN	MINIMUM
CL	CENTER LINE	MISC	MISCELLANEOUS
CLR	CLEAR OR CLEARANCE		
CMU	CONCRETE MASONRY UNIT	NC	NOT IN CONTRACT
COL	COLUMN	NS	NEAR SIDE
CONC	CONCRETE	NSFC	NOT SHOWN FOR CLARITY
CONN(S)	CONNECTION(S)	NTS	NOT TO SCALE
CONST	CONSTRUCTION	NWC	NORMAL WEIGHT CONCRETE
CONT	CONTINUOUS		
COORD	COORDINATE	OC	ON CENTER
		OD	OUTSIDE DIAMETER
dE	DRILL & EPOXY	OF	OUTSIDE FACE
DB	REINFORCING BAR DIAMETER	OH	OPPOSITE HAND
DEA	DEFORMED BAR ANCHOR	OP	OPPOSITE
DCA	DEMAND CRITICAL WELD	OS	OUTSTANDING LEG
DOW	DEGREE(S)	OSL	OUTSTANDING LEG
D	DIAMETER		
Ø	DIAGONAL	PAF	POWDER ACTUATED FASTENER
DM(S)	DIAMENSION(S)	PERP	PERPENDICULAR
DL	DEAD LOAD	PJF	PRE-FORMED JOINT FILLER
DWG(S)	DRAWING(S)	PJP	PARTIAL JOINT PENETRATION
		PL	PLATE
EA	EACH	PLF	POUNDS PER LINEAL FOOT
EJ	EACH FACE	PCST	PRECAST
EF	EXPANSION JOINT	PREFAB	PRE-FABRICATED
EL	ELEVATION	PSF	POUNDS PER SQUARE FOOT
ELEV	ELEVATOR	PSI	POUNDS PER SQUARE INCH
EOS	EDGE-OF-SLAB	PT	POST-TENSIONED
EQ	EQUAL		
EQUIP	EQUIPMENT	REF	REFERENCE
EW	EACH WAY	REF	REFERENCE
EXIST	EXISTING	REQ(D)	REQUIRED(D)
EXP	EXPANSION	REV	REVISION
EXT	EXTERIOR	RTU	ROOF TOP UNIT
FF	FACE-TO-FACE	SCHED	SCHEDULE(D)
FD	FLOOR DRAIN	SDL	SUPERIMPOSED DEAD LOAD
FF	FINISH FLOOR	SER	STRUCTURAL ENGINEER OF RECORD
FND	FOUNDATION	SF	SQUARE FOOT (FEET)
FS	FSR SIDE	SM	SIMILAR
FT	FEET	SLRS	SEISMIC LOAD RESISTING SYSTEM
FTG	FOOTING	SG	SLAB-ON-GROUND
		SOP	SPACE
G	GAGE, GAUGE	SPEC(S)	SPECIFICATION(S)
GALV	GALVANIZED	SS	STAINLESS STEEL
GR	GRADE BEAM	STD	STANDARD
GC	GENERAL CONTRACTOR	STR	STIFFENER
GDR	GRIDER	STR	STRUCTURE OR STRUCTURAL
GEN	GENERAL	SYM	SYMMETRICAL
GYP	GYPSUM		
		T	TENSION
HCA	HEADED CONCRETE ANCHORS	T&B	TOP AND BOTTOM
HORIZ	HORIZONTAL	T&G	TONGUE & GROOVE
	HOLLOW STRUCTURAL SECTION	TI	TOP OF
		TEMP	TEMPERATURE OR TEMPORARY
ID	INSIDE DIAMETER	TYP	TYPICAL
IF	INSIDE FACE		
IN	INCH	UNO	UNLESS NOTED OTHERWISE

## ABBREVIATIONS

NTH  
 UNDS)  
 VE LOAD  
 GLESS HORIZONTAL  
 GLESS VERTICAL  
 DISTANCE FACTORED DESIGN  
 G SIDE VERTICAL  
 TENSION SPlice  
 GHT WEIGHT  
 CEMENT  
 CEMENT CONNECTION(S)  
 MECHANICAL  
 MECHANICAL, ELECTRICAL, PLUMBING  
 PROTECTION  
 MANUFACTURER  
 DDLE  
 MINIMUM  
 SCALLANES  
 OT IN CONTRACT  
 EAR SIDE  
 OT SHOWN FOR CLARITY  
 OT TO SCALE  
 NORMAL WEIGHT CONCRETE  
 IN CENTER  
 UTSIDE DIAMETER  
 UTSIDE FACE  
 POSITE HAND  
 (EN)S  
 POSITE  
 UTJSTANGING LEG  
 OWDER ACTUATED FASTENER  
 REFORMED JOINT  
 REFORMED JOINT PELLER  
 TE  
 UNDS PER LINEAL FOOT  
 RECAST  
 RE-FABRICATED  
 UNDS PER SQUARE FOOT  
 UNDS PER SQUARE INCH  
 ST-TENSIONED  
 REFERENCE  
 (ENFORCED)(I) (NG) (OR MENT)  
 (REQUIRED)  
 EVISION  
 JOF TOP UNIT  
 (CHEDULED)  
 REIMPOSED DEAD LOAD  
 CTURAL ENGINEER OF RECORD  
 FOOT (FEET)  
 ILAR  
 ISMIC LOAD RESISTING SYSTEM  
 AB-ON-GROUND  
 ACE  
 (IFICATIONS)  
 ANLESS STEEL  
 STANDARD  
 FFENER  
 CTURE OR STRUCTURAL  
 MMETRICAL  
 ENSION  
 OP AND BOTTOM  
 ONGUE & GROOVE  
 OF OF  
 TEMPERATURE OR TEMPORARY  
 TYPICAL  
 UNLESS NOTED OTHERWISE

## STRUCTURAL THRESHOLD INSPECTIONS

- B. PER CHAPTER 553.17 OF THE FLORIDA STATUTES, THIS BUILDING QUALIFIES AS A THRESHOLD BUILDING. SPECIAL INSPECTORS OF THRESHOLD BUILDINGS (THRESHOLD INSPECTORS) SHALL MEET THE REQUIREMENTS OF RULE 61615-30.003 OF THE FLORIDA ADMINISTRATIVE CODE.
- C. INSTEAD OF A SPECIAL INSPECTOR OF FLOORING, THE FLOORING AGENCY SHALL REQUIRE A THRESHOLD INSPECTOR TO PERFORM STRUCTURAL INSPECTIONS ON A THRESHOLD BUILDING PURSUANT TO A STRUCTURAL INSPECTION PLAN PREPARED BY THE STRUCTURAL ENGINEER OF RECORD.
- D. A THRESHOLD INSPECTOR SHALL BE A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA WHO IS CERTIFIED UNDER CHAPTER 471.01 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 THRESHOLD INSPECTION PLAN SHALL BE PREPARED AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THE ISSUANCE OF A BUILDING PERMIT FOR THE CONSTRUCTION OF A THRESHOLD BUILDING. THE FEE OWNER OF A THRESHOLD BUILDING SHALL SELECT AND PAY ALL COSTS OF EMPLOYING A THRESHOLD INSPECTOR TO CONDUCT THRESHOLD INSPECTIONS OF THE THRESHOLD BUILDING.
- F. THRESHOLD INSPECTIONS RELATED TO TEMPORARY CONDITIONS SUCH AS SHORING, RE-SHORING, AND TEMPORARY BRACINGS 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 CONDITIONS.
- G. SEE STRUCTURAL INSPECTION PLAN FOR FURTHER INFORMATION.

STRUCTURAL DRAWING LIST	
SHEET NUMBER	SHEET NAME
S-001	GENERAL NOTES
S-002A	LOADING CRITERIA
S-002B	LOAD PLANS
S-003	CONCRETE GENERAL NOTES
S-004	MASONRY GENERAL NOTES
S-005	STEEL GENERAL NOTES
S-121	FOUNDATION PLAN
S-122	SECOND FLOOR FRAMING PLAN
S-122-PT	SECOND FLOOR PT PLAN
S-123	SECOND FLOOR REINFORCING PLAN
S-123-1	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 WALL DETAILS
S-321	CONCRETE SHEAR WALL ELEVATIONS
S-322	CONCRETE SHEAR WALL ELEVATIONS Copy 1
S-330	TYPICAL PT TENDON DETAILS
S-331	TYPICAL PT REINFORCEMENT DETAILS
S-332	TYPICAL PT REINFORCEMENT DETAILS
S-340	TYPICAL CONCRETE COLUMN DETAILS
S-350	CONCRETE STAIR DETAILS
S-360	TYPICAL CONCRETE FRAMING DETAILS
S-500	TYPICAL MASONRY DETAILS
S-500	STEEL FRAMING DETAILS
S-600	ROOF FRAMING DETAILS



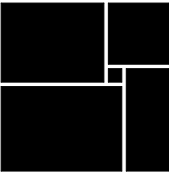
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CERTIFICATE OF AUTHORIZATION FL #3  
JG Project #: 21.18.004

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## PRELIMINARY

BE USED FOR  
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## DESIGN DEVELOPMENT

Project No.: 2021009  
Date: 08/22/2025

## GENERAL NOTES

**S-001**

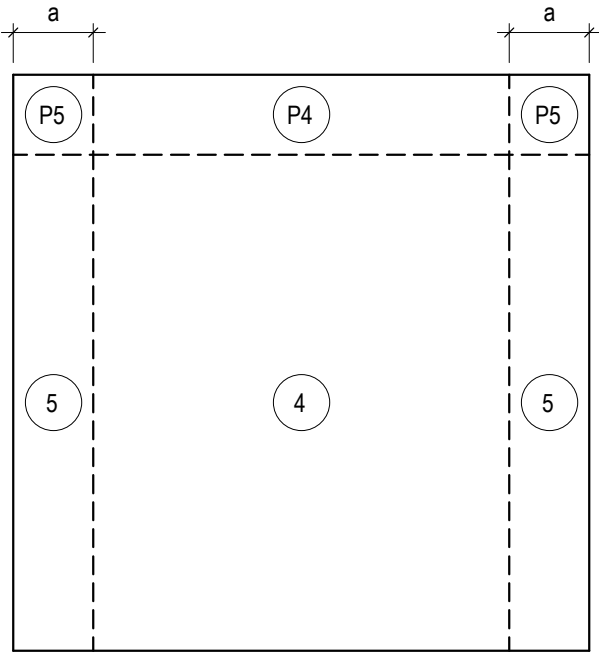


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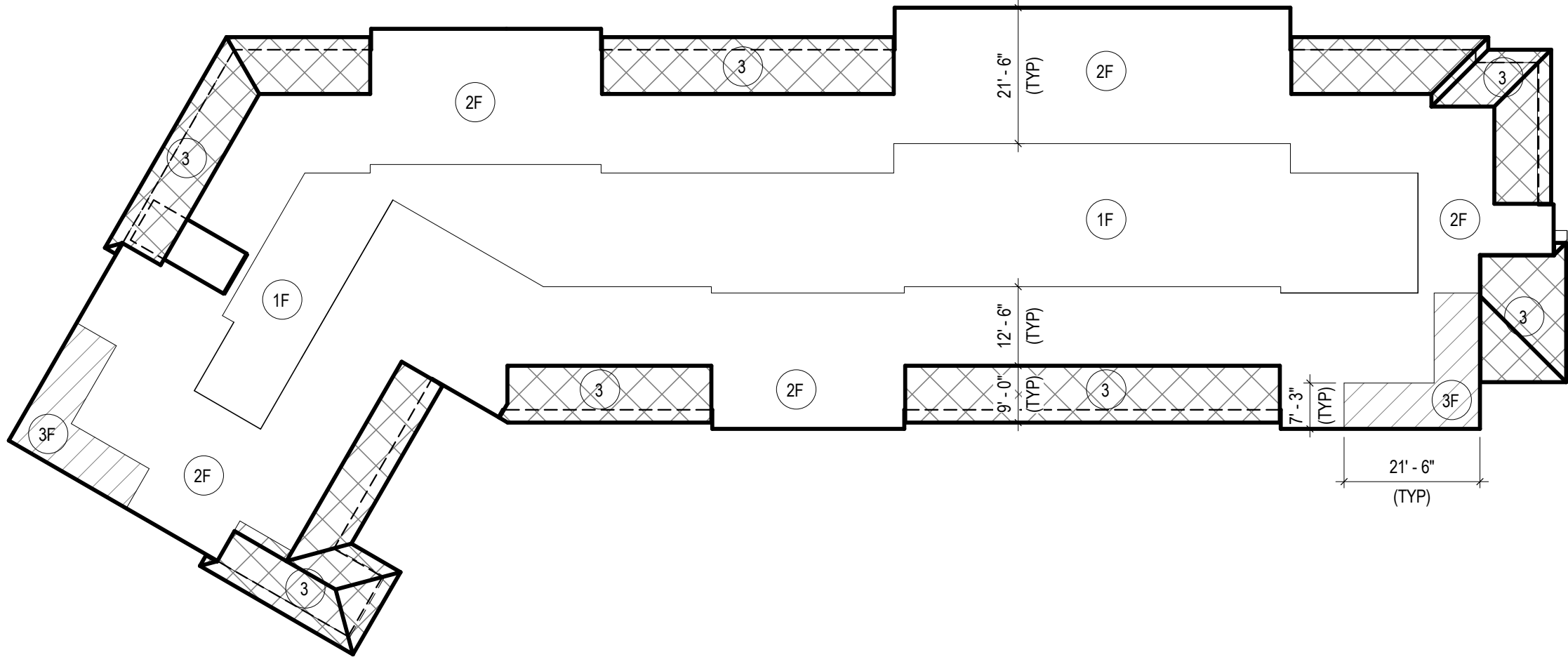
DESIGN CRITERIA

- A. STRUCTURE LOCATION:  
LONGITUDE: -80.059  
LATITUDE: 26.85
- B. LOADING:  
1. SEE LOAD PLANS  
2. RAIN LOAD:  
DESIGN RAINFALL: 5"/HOUR (100-YEAR, 1-HOUR RAINFALL)  
RAINWATER AT LOWEST POINT OF ROOF SHALL, (NOT POND DURING DESIGN RAINFALL / NOT EXCEED 6" DURING DESIGN RAINFALL)  
DESIGN RAIN LOAD, R: 30 PSF
3. WIND LOAD:  
ULTIMATE DESIGN WIND SPEED,  $V_{ult}$ : 170 MPH  
NOMINAL DESIGN WIND SPEED,  $V_{nom}$ : 132 MPH  
RISK CATEGORY: II  
EXPOSURE CATEGORY: C  
ENCLOSURE CLASSIFICATION: ENCLOSED  
INTERNAL PRESSURE COEFFICIENT:  $\pm 0.18$   
COMPONENTS & CLADDING DESIGN PRESSURES: SEE WIND PRESSURE DIAGRAMS
4. SEISMIC LOAD:  
RISK CATEGORY: II  
SEISMIC IMPORTANCE FACTOR,  $I_e$ : 1.0  
SITE CLASS: D (ASSUMED)  
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER,  $S_{MS}$ : 0.055 g  
MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER,  $S_{M1}$ : 0.025 g  
SPECTRAL RESPONSE ACCELERATION PARAMETER,  $S_{MS}$ : 0.049 g  
SPECTRAL RESPONSE ACCELERATION PARAMETER,  $S_{M1}$ : 0.035 g  
SEISMIC DESIGN CATEGORY: A  
SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS  
REDUNDANCY FACTOR,  $\rho$ : 1.0  
OVERSTRENGTH FACTOR,  $Q_e$ : 2.5  
RESPONSE MODIFICATION FACTOR,  $R$ : 4  
SEISMIC RESPONSE COEFFICIENT,  $C_e$ : 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: 50 PLF
- 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: L/240  
• TRANSITORY LOAD DEFLECTION: L/360  
b. FLOOR MEMBERS:  
• TOTAL LOAD DEFLECTION: L/240  
• LIVE LOAD DEFLECTION: L/360  
c. EXTERIOR WALLS & CLADDING:  
• WIND LOAD DEFLECTION: L/360  
d. INTERIOR PARTITIONS:  
• LIVE LOAD DEFLECTION: L/240
2. DRIFT LIMITS  
a. INTERSTORY DRIFT: H/400  
b. TOTAL STRUCTURE DRIFT: H/500

EWA	C&C External Pressure Loads - Main Roof (psf)									
	Zone									
(ft)	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	40.7	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



WALL ELEVATION



NOTES:

- FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREA.
- DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.
- $a = 6'-8"$ : SEE ROOF PLAN MAP BELOW FOR LOCATION OF  $a$ -ZONES. WALL  $a$ -ZONE LOCATIONS TO MATCH ROOF  $a$ -ZONES.
- POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.
- EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
- PARAPET COMPONENTS AND CLADDING ARE THOSE ELEMENTS WHICH EXIST ABOVE THE HORIZONTAL PLANE OF THE ROOF AND SHALL BE DESIGNED FOR:
  - POSITIVE AND NEGATIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON OUTSIDE FACE.
  - POSITIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
  - NEGATIVE PRESSURES 2 OR 3 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.
  - P4/5 SHALL BE APPLIED TO THE DESIGN OF THE STRUCTURAL ELEMENT OF THE PARAPET AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE PARAPET.
- A DESIGN WIND PRESSURE HORIZONTAL VALUE OF \_\_\_\_ PSF AND VERTICAL VALUE OF \_\_\_\_ PSF SHALL BE APPLIED TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUs, AHUs, AND SCREEN WALLS.
- ROH# : DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE OVERHANG.
- ALL DOORS TO BE RATED TO RESIST DESIGN WIND PRESSURES SPECIFIED.

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Project No.: 2021009  
Date: 08/22/2025

LOADING  
CRITERIA

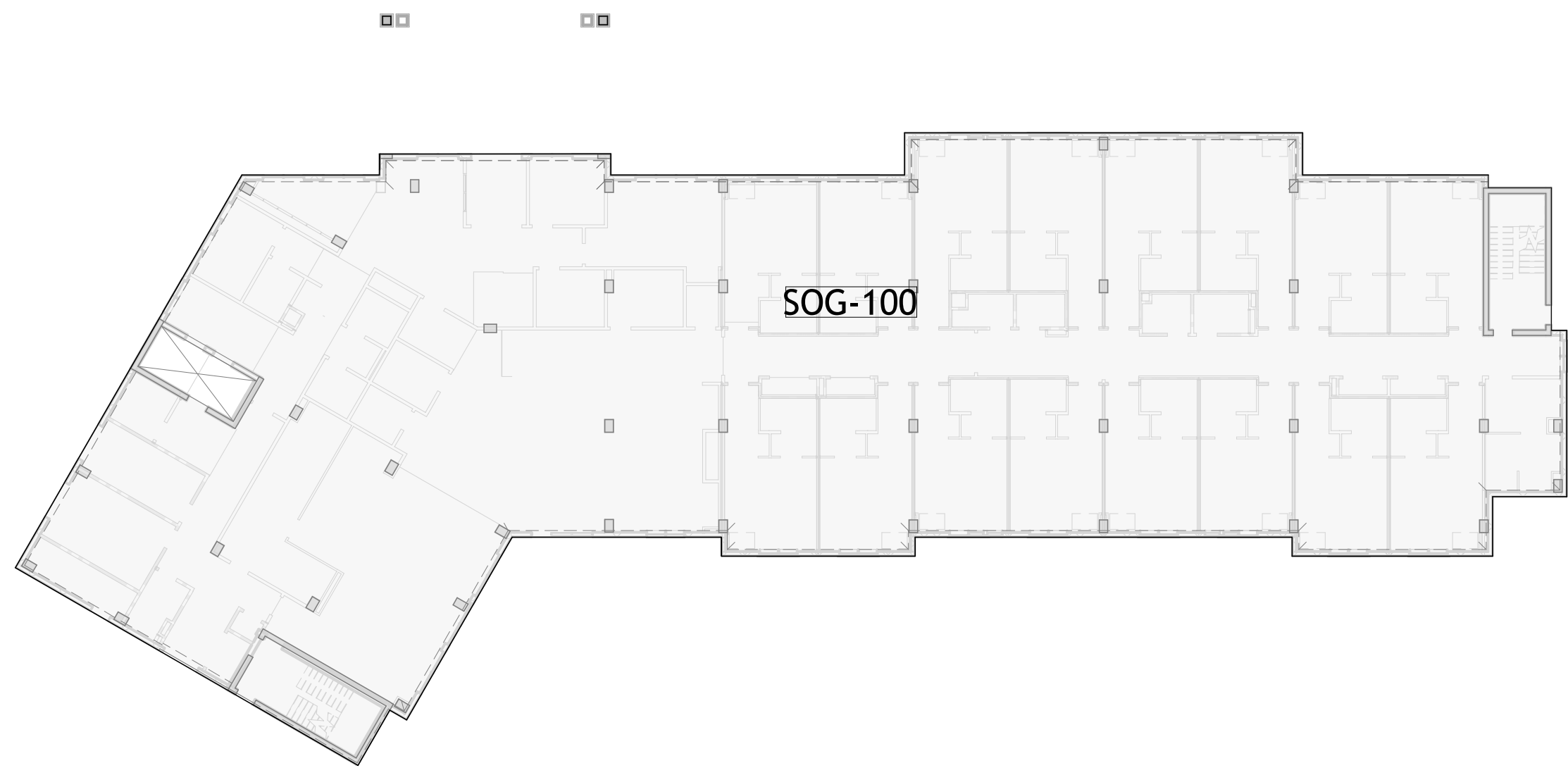
S-002A



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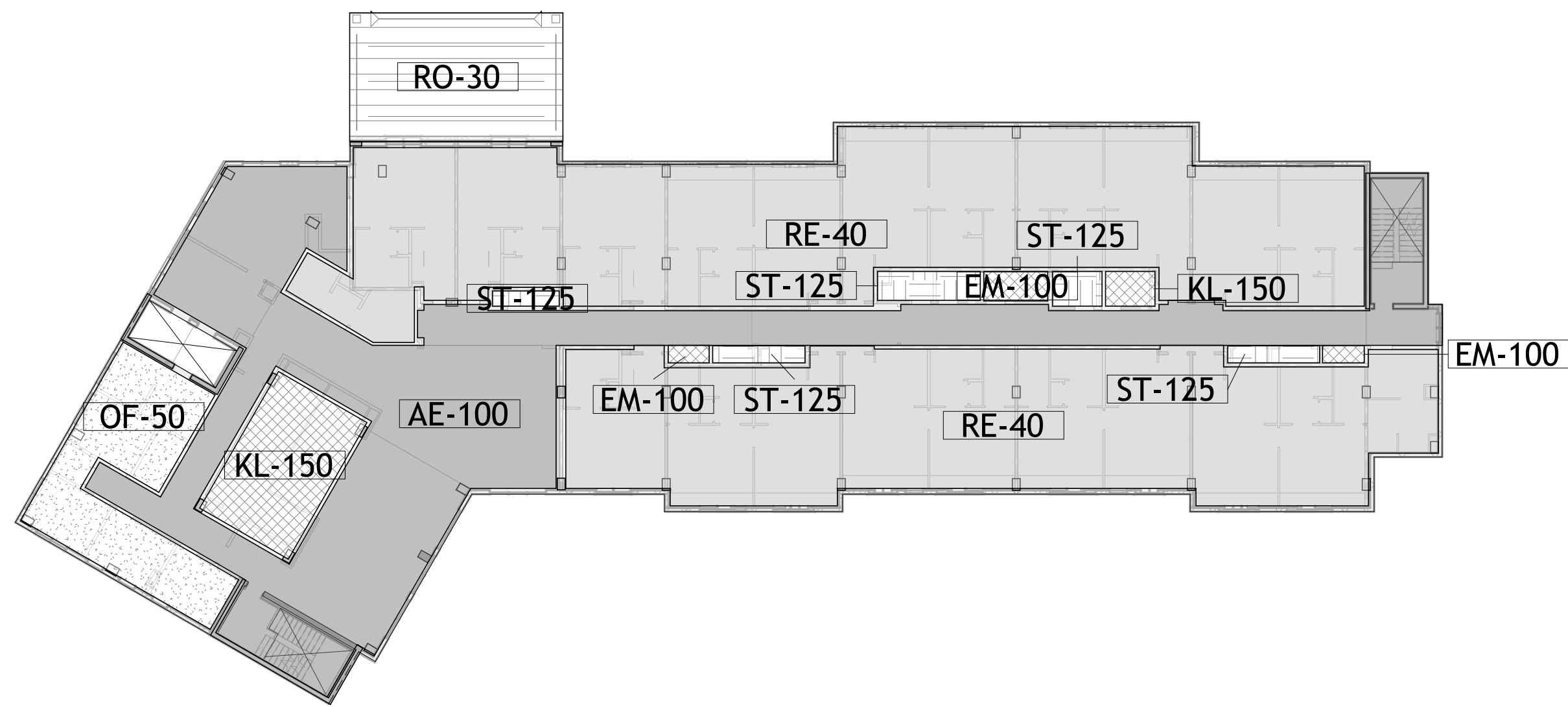
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L1  
S-002B

GROUND FLOOR LOAD PLAN

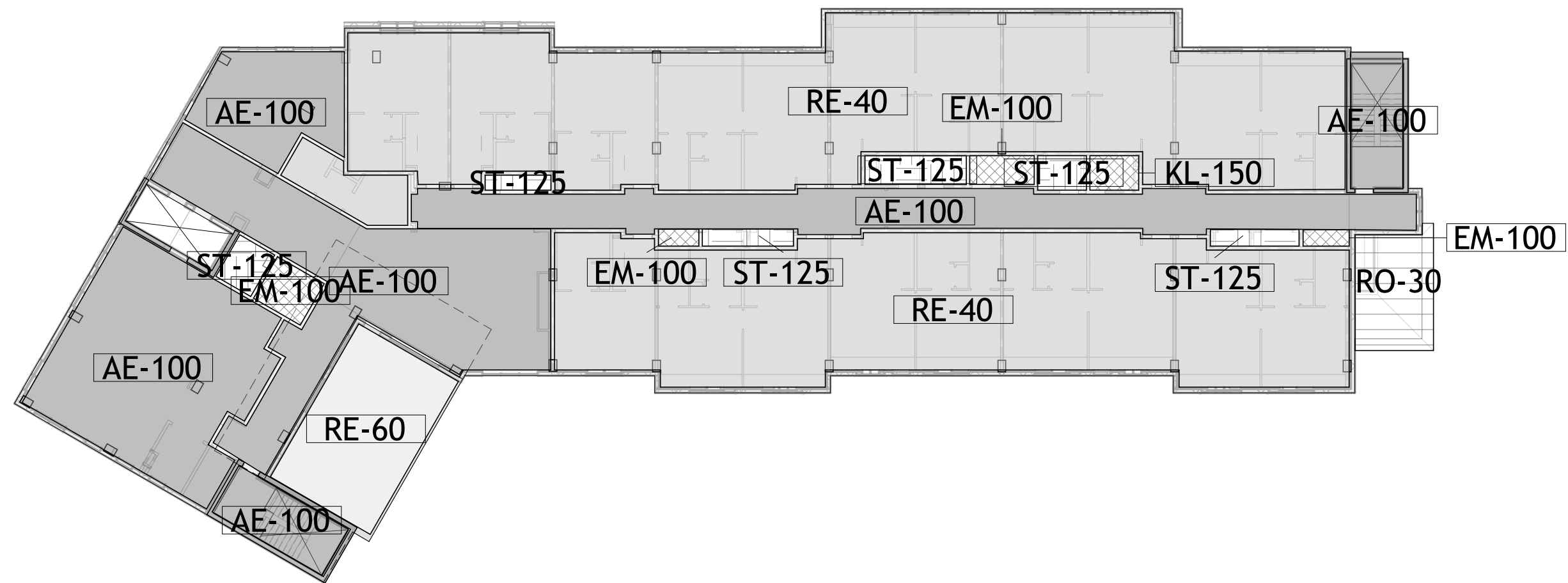
3/64" = 1'-0"



L2  
S-002B

SECOND FLOOR LOAD PLAN

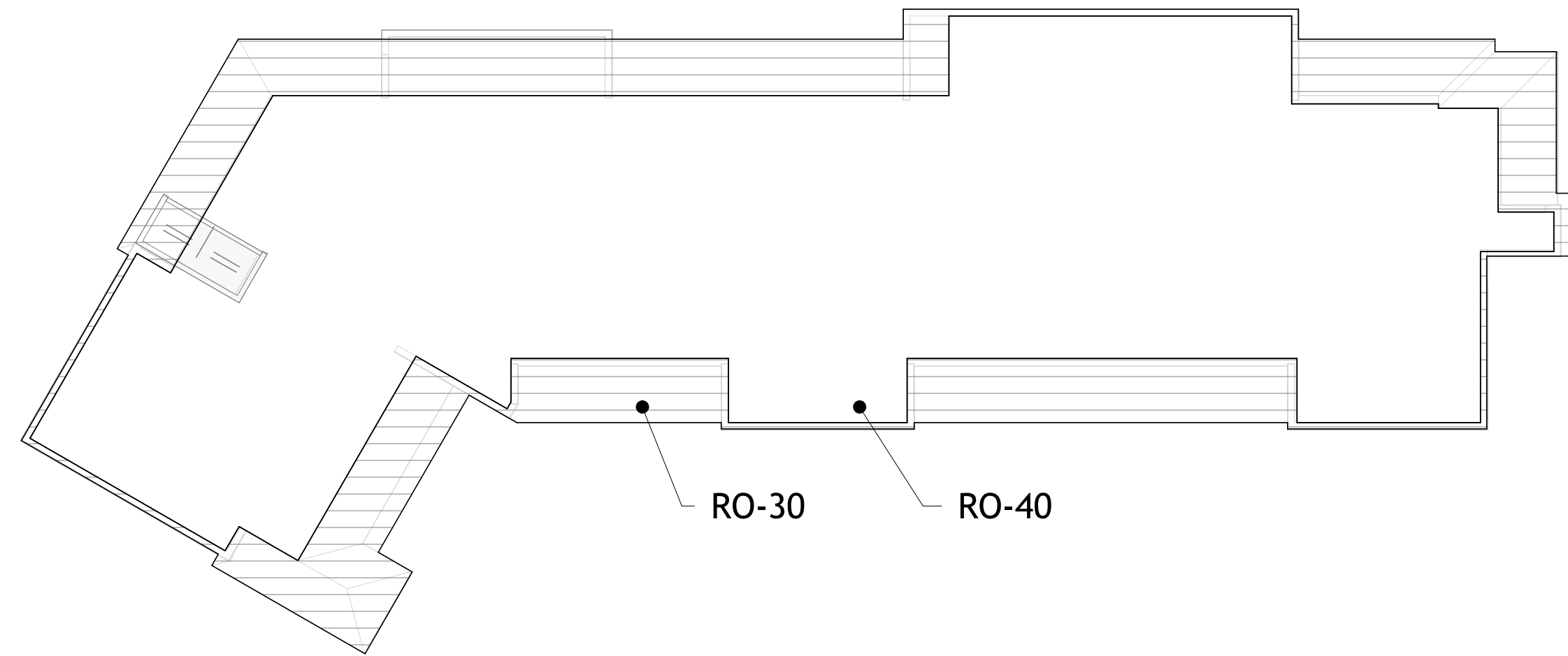
3/64" = 1'-0"



L3  
S-002B

THIRD FLOOR LOAD PLAN

3/64" = 1'-0"



LR  
S-002B

ROOF LEVEL LOAD PLAN

3/64" = 1'-0"

LOAD MAP KEY					
MARK	OCCUPANCY OR USE	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	COMMENTS
AE-100	ASSEMBLY AREAS	25	100	No	
EM-100	ELECTRICAL & MECHANICAL	25	100	No	
KL-150	KITCHEN & LAUNDRY	25	150	No	
OF-50	OFFICES	25	50	Yes	
RE-40	RESIDENTIAL	25	40	Yes	
RE-60	BALCONY	25	60	No	
RO-30	ROOF TYPICAL	35	30	Yes	
RO-40	ROOF WELL	10	40	Yes	
SOG-100	SLAB-ON-GROUND	25	100	No	
ST-125	STORAGE	25	125	No	



**CONCRETE**

- A. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH DIVISION 03 OF THE SPECIFICATIONS. FOR CONCRETE MIXTURE REQUIREMENTS SEE SCHEDULE ON THIS SHEET.
- C. THE USE OF RECYCLED CONCRETE IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.
- D. NORMAL WEIGHT CONCRETE SHALL BE USED FOR ALL CONCRETE MEMBERS UNLESS NOTED OTHERWISE. NORMAL WEIGHT CONCRETE SHALL HAVE A CURED DENSITY OF 145 PCF ± 5 PCF. WHERE LIGHT WEIGHT CONCRETE IS SPECIFIED THE CURED DENSITY SHALL BE 112 PCF ± 3 PCF.
- E. EACH MIX SHALL BE INDICATED BY MIX NUMBER AND THE INTENDED LOCATION OF PLACEMENT ON THE SPECIFIC PROJECT SHALL BE CLEARLY STATED.
- F. 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 OCCUR WITHIN THE MIDDLE THIRD OF A MEMBER'S SPAN. ALL APPROVED CONSTRUCTION JOINTS SHALL BE INDICATED, DIMENSIONED, AND DETAILED ON THE CONCRETE REINFORCEMENT SHOP DRAWINGS.
- G. GIRDER, BEAMS, HAUNCHES, DROP PANELS, DROP CAPS, AND CAPITALS SHALL BE POURED MONOLITHICALLY AS PART OF THE SLAB SYSTEM UNLESS NOTED OTHERWISE.
- H. PROVIDE A ¼ 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.
- I. 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 APPROVAL.
- K. EMBEDDED 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.
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.
  3. ALUMINUM EMBEDMENTS AND EMBEDMENTS MADE OF ANY OTHER MATERIAL HARMFUL TO THE CONCRETE OR REINFORCEMENT ARE PROHIBITED.
  4. 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.
  5. 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.
  7. EMBEDDED TENDONS SHALL BE FABRICATED AND INSTALLED SUCH THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS SPECIFIED LOCATION IS NOT REQUIRED.

**CONCRETE REINFORCEMENT**

- A. ALL CONCRETE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION 03 OF THE SPECIFICATIONS.
- B. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.
- C. WHERE WELDS ARE INDICATED FOR REINFORCING STEEL ON THE DRAWINGS, REINFORCING STEEL SHALL BE A706, GRADE 60 UNLESS OTHERWISE NOTED.
- D. WELDED WIRE REINFORCEMENT SHALL CONFORM TO THE MATERIAL REQUIREMENTS OF ASTM A1064.
- E. ALL #8", 135" AND 180" HOOKED REINFORCEMENT SPECIFIED AND GRAPHICALLY DEPICTED IN THE CONTRACT DOCUMENTS SHALL BE DETAIL 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 EACH SIDE OF OPENING (HALF TO EACH SIDE, TYPICAL).
- G. 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 WEATHER.
- H. ALL LAP SPICES SHALL BE CLASS B TENSION LAP SPICES IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE. SEE LAP SPICE SCHEDULE ON THIS SHEET FOR LAP SPICE LENGTHS, UNLESS NOTED AS CONTINUOUS, REINFORCEMENT SHALL ONLY BE SPICED AT LOCATIONS SHOWN ON THE CONTRACT DOCUMENTS. SPICES AT NON-SPECIFIED LOCATIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- I. A MINIMUM LAP SPICE OF 8" SHALL BE PROVIDED AT ALL END AND SIDE LAP CONDITIONS FOR WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE.
- J. MECHANICAL SPICES ARE REQUIRED WHERE SPECIFIED ON THE CONTRACT DOCUMENTS. MECHANICAL SPICES ARE ALSO REQUIRED TO SPICE #14 AND #18 BARS. MECHANICAL SPICES MAY ALSO BE USED AT THE CONTRACTOR'S OPTION, PROVIDED THE MECHANICAL SPICES HAVE A CURRENT ICC-ES REPORT DEMONSTRATING THEY CAN DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION OR COMPRESSION. MECHANICAL SPICES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
- K. THE USE OF WELDED SPICES IS PROHIBITED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SUBMIT THE LOCATIONS OF WELDED SPICES TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL. IF APPROVED, WELDED SPICES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.
- L. JOINTS SHALL MATCH SIZE AND SPACING OF PRIMARY REINFORCEMENT UNLESS NOTED OTHERWISE.
- M. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS AND PENETRATIONS.
- N. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCEMENT BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.

**EARTHWORK & FOUNDATIONS**

- A. GEOTECHNICAL INVESTIGATION REPORT
1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT AS FOLLOWS:
    - a. REPORT TITLE: \_\_\_\_\_
    - b. PREPARED BY: \_\_\_\_\_
    - c. DATED: \_\_\_\_\_
  2. 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
1. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
  2. FOUNDATION SIZES AND REINFORCEMENT ARE BASED ON AN ALLOWABLE BEARING PRESSURE OF [\_\_\_\_\_] PSF PER THE GEOTECHNICAL INVESTIGATION REPORT.
  3. FOUNDATIONS SHALL BEAR A MINIMUM OF [\_\_\_\_\_] BELOW ADJACENT EXTERIOR GRADE.
  4. FOUNDATIONS SHALL BE ON COMPACTED STRUCTURAL FILL, NATURAL SOILS, OR ROCK PREPARED PER THE GEOTECHNICAL INVESTIGATION REPORT.
  5. 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.
  6. 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.
  7. CENTER OF GRAVITY OF FOUNDATIONS SHALL BE UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNLESS NOTED OTHERWISE.
  8. 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).
- C. 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.
  2. 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.
  5. UNLESS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT, COMPACT FILL TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D1557. EACH LAYER SHALL NOT EXCEED 4" LOOSE THICKNESS. COMPACT PRIOR TO THE PLACEMENT OF THE NEXT LAYER. COMPACTION SHALL MEET ALL RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION REPORT.
  6. IF 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.
  7. 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
1. RETAINING WALLS SHALL BE DESIGNED FOR THE FOLLOWING:
    - a. LATERAL EARTH PRESSURE AT REST: [\_\_\_\_\_] PSF PER FOOT OF DEPTH
    - b. ACTIVE EARTH PRESSURE: [\_\_\_\_\_] PSF PER FOOT OF DEPTH
    - c. PASSIVE EARTH PRESSURE RESISTANCE: [\_\_\_\_\_] PSF PER FOOT OF DEPTH
    - d. SOIL FRICTION FACTOR: [\_\_\_\_\_] %
  2. 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).
  3. DO NOT BACKFILL AGAINST CANTILEVERED RETAINING WALLS UNTIL CONCRETE COMPRESSIVE STRENGTH, f<sub>c</sub>, REACHES ITS 28 DAY DESIGN STRENGTH. DO NOT BACKFILL PRIOR TO WATERPROOFING AND INSPECTION.
- E. DEEP FOUNDATIONS
1. DEEP FOUNDATIONS ARE DESIGNED BASED ON THE FOLLOWING DESIGN CRITERIA PER THE GEOTECHNICAL INVESTIGATION REPORT:
    - a. ALLOWABLE END BEARING PRESSURE: [\_\_\_\_\_] PSF
    - b. ALLOWABLE SKIN FRICTION (COMPRESSION): [\_\_\_\_\_] PSF
    - c. AT A DEPTH GREATER THAN [\_\_\_\_\_] FEET BELOW FINISHED SLAB ELEVATION
    - d. ALLOWABLE TENSION CAPACITY [\_\_\_\_\_] PSF
    - e. MINIMUM EMBEDMENT INTO BEARING STRATUM: [\_\_\_\_\_] FEET
    - f. DEPTH TO BEARING STRATUM FOR ESTIMATING PURPOSES ONLY: [\_\_\_\_\_] FEET
  2. ASSUMED BEARING DEPTH SHALL BE VERIFIED IN FIELD BY QUALIFIED GEOTECHNICAL ENGINEER RETAINED BY THE OWNER.
  3. PRIOR TO PLACEMENT OF CONCRETE, THE 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.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATIONS, WHERE NECESSARY, SHEET AND SHORE THE EXCAVATION WITH ALL REQUIRED TIEBACKS AND BRACING AS DETERMINED BY THE CONTRACTOR'S SHORING ENGINEER. THE SHORING ENGINEER SHALL BE LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

CONCRETE MIXTURE REQUIREMENTS									
	APPLICATION	EXPOSURE CLASS	f <sub>c</sub> (PSI)	TEST AGE	MODULUS OF ELASTICITY (KSI)	MAXIMUM W/C	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE	MAXIMUM CONCRETE WEIGHT
ON-GROUND	FOUNDATIONS	F0, S0, W1, C1	4000	28 DAYS	3122	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
	EXTERIOR SLAB-ON-GROUND (EXTERIOR/PARKING)	F0, S0, W1, C1	4000	28 DAYS	3605	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
	SLAB-ON-GROUND (INTERIOR)	F0, S0, W0, C0	3000	28 DAYS	3605	SEE NOTE 2	SEE NOTE 3	1"	150 PCF
VERTICAL	SHEAR WALLS AND COLUMNS	F0, S0, W2, C1	5000	28 DAYS	4031	0.50	SEE NOTE 3	¾"	150 PCF
	CMU FILLED CELLS	GROUT MIX SHALL BE USED FOR CMU FILLED CELLS - SEE CONCRETE MASONRY UNIT GENERAL NOTES, DETAILS, AND SPECIFICATIONS							
	POST TENSIONED ELEVATED FRAMING (EXTERIOR)	F0, S0, W1, C1	6000 @ 28-DAYS 3000 @ 48-HOURS	28 DAYS	4031 @ 28-DAYS	SEE NOTE 2	SEE NOTE 3	¾"	150 PCF
ELEVATED	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 APPROVAL.	F0, S0, W1, C1	6000 @ 28-DAYS 3000 @ 48-HOURS	28 DAYS	4031 @ 28-DAYS	SEE NOTE 2	SEE NOTE 3	¾"	150 PCF
	ELEVATED SLABS AND BEAMS (NON-PRESTRESSED)	F0, S0, W1, C1	5000	28 DAYS	4031	SEE NOTE 2	SEE NOTE 3	¾"	150 PCF
	NOTES:	<ol style="list-style-type: none"> <li>1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY, AND CORROSION PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE.</li> <li>2. 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.</li> <li>3. 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.</li> <li>4. COARSE AGGREGATE SHALL BE ASTM C 33, GRADED. SELECT GRADING CLASS PER TYPE OF CONSTRUCTION OR LOCATION USED, AND IN RELATION TO SPECIFIC WATER REGION. AGGREGATE SHALL BE FROM A SINGLE SOURCE. #57 GRADING SHALL BE USED FOR CONCRETE WITH 34 INCH MAXIMUM, #57 GRADING SHALL BE USED FOR CONCRETE WITH 1 INCH MAXIMUM.</li> </ol>							

**CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) CLEAR COVER SCHEDULE**

APPLICATION	BOTTOM	TOP	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	¾"	¾"	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)**

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

**LAP SPICE LENGTH SCHEDULE (INCHES)**

BAR SIZE	MIN BAR SPACING (INCHES)	TENSION (LTS)									
		f <sub>c</sub> = 4,000 PSI	f <sub>c</sub> = 5,000 PSI	f <sub>c</sub> = 6,000 PSI	f <sub>c</sub> = 4,000 PSI	f <sub>c</sub> = 5,000 PSI	f <sub>c</sub> = 6,000 PSI	f <sub>c</sub> = 4,000 PSI	f <sub>c</sub> = 5,000 PSI	f <sub>c</sub> = 6,000 PSI	f <sub>c</sub> = 4,000 PSI
#4	1.500	33	25	23	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				

**POST-INSTALLED ANCHORS**

- A. SEE THE POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION SCHEDULE ON THIS SHEET FOR PRE-APPROVED MANUFACTURER'S LITERATURE.
1. 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.
  2. 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.
  3. 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 DISMISAL MATERIALS WHEN ANCHOR MATERIAL DIFFERS FROM FIXTURE MATERIAL.
  4. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS, APPLICABLE EVALUATION REPORTS, AND AS INDICATED WITHIN THE SPECIAL INSPECTIONS PLAN WITHIN THE CONSTRUCTION DOCUMENTS.
  5. CONTINUOUS INSPECTION SHALL BE PROVIDED FOR ADHESIVE ANCHORS INSTALLED HORIZONTALLY, UPWARDLY INCLINED, OR OVERHEAD.
  6. ADHESIVE ANCHORS SHALL BE PROOF TESTED AS FOLLOWS:
    - a. EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF TESTED IN TENSION BY AN INDEPENDENT TESTING LABORATORY.
    - b. PROOF LOADING SHALL BE PERFORMED TO ADHESIVE ANCHORS AS FOLLOWS:
      - i. 10% OF ADHESIVE ANCHORS FOR EACH TYPE AND SIZE OF ADHESIVE ANCHOR.
      - ii. ADDITIONAL SPECIFIC ANCHORS AS NOTED WITHIN THE CONSTRUCTION DOCUMENTS.
    - c. PROOF LOADING SHALL BE PERFORMED ON PRODUCTION ANCHORS. SACRIFICIAL ANCHORS SHALL BE NOT CONSIDERED ACCEPTABLE.
  7. THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL.
  8. TENSION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM E488 AND ACI 308.4, PERFORMED AFTER THE 28-DAY CURE PERIOD DURING PERIOD AND AFTER THE MINIMUM EXPIRY DURING PERIOD SPECIFIED BY THE MANUFACTURER. PROOF LOADING SHALL BE 1.5x THE ASD CAPACITY OF THE ANCHOR, AND LOAD SHALL BE MAINTAINED ON THE ANCHOR FOR A MINIMUM OF 10 SECONDS.
  9. ANCHORS SHALL HAVE NO VISIBLE INDICATION OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOADING APPLICATION. CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.
  10. IF MORE THAN 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHIN THE LIMITED DEFLECTED IN THESE NOTES, AN ADDITIONAL 20% OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED.
  11. IN THE EVENT OF FAILURE TO ACHIEVE PROOF LOAD, OR EXCESSIVE DISPLACEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE CONCRETE.

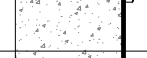



**POST-TENSIONED CONCRETE**

- 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 SUBMIT A TENSIONING STRATEGY 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 LOSSES ARE ACCOUNTED FOR.
1. 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 DRAWINGS.
  2. TENDONS SHALL BE STRESSED TO A MAXIMUM OF 80% OF F<sub>pu</sub> WHILE ANCHORAGE STRESSES SHALL BE A MAXIMUM OF 70% OF F<sub>pu</sub> FOR ALL TENDONS. STRESSING SHALL BE IN ACCORDANCE WITH THE MAXIMUM VALUES RECOMMENDED BY THE MANUFACTURER OF THE POST-TENSIONING STEEL, OR ANCHORAGE DEVICES.
  3. ALL POST-TENSIONED FORCES SHOWN ARE IN KIIPS OR KIPIPSF.
  4. SLAB TENDONS FOR FORCES SHOWN IN KIIPS ARE TO BE PLACED UNIFORMLY IN A BAND WIDTH ON EACH SIDE OF A COLUMN. PLACED EITHER TWO OR THREE TENDONS THROUGH A COLUMN SO THAT HALF OF THE REMAINING TENDONS ARE EQUAL ON EACH SIDE OF THE COLUMN.
  5. SLAB TENDONS FOR FORCES SHOWN IN KIPIPSF ARE TO BE PLACED UNIFORMLY BETWEEN INDICATED WIDTHS. AT LEAST TWO TENDONS SHALL PASS THROUGH EACH COLUMN.
  6. ALL POST-TENSIONED SLAB THICKNESSES ARE AS MARKED ON THE CONSTRUCTION DRAWINGS.
  7. AT LEAD ENDS AND STRESSING ENDS, TENDON CENTER OF GRAVITY SHALL BE AT CENTROID OF THE MEMBER, UNLESS NOTED OTHERWISE.
  8. POST-TENSIONED SLABS ARE DESIGNED BASED ON TENDONS BEING CONTINUOUS BETWEEN EDGES OF SLABS AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY ADDITIONAL INTERMEDIATE STRESSING JOINTS OR CLOSURE 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.
  9. SUPPLIERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  10. COORDINATION OF THE DETAILING AND PLACEMENT OF TENDONS AND MILD REINFORCING STEEL BETWEEN SUPPLIERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  11. PLACE TOP REINFORCEMENT BARS UNIFORMLY IN A WIDTH EQUAL TO THE COLUMN WIDTH PLUS ONE OR 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.
  12. BOTTOM BARS SHALL BE CENTERED IN SPAN, UNLESS NOTED OTHERWISE.
  13. PLACE TENDONS IN SMOOTH PARABOLIC DRAPES BETWEEN HIGH AND LOW POINTS SHOWN, UNLESS NOTED OTHERWISE.
  14. TENDON LOW POINTS SHALL BE AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
  15. 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.
  16. PROVIDE CHAIRS AND SUPPORT BARS AS REQUIRED TO HOLD TENDONS IN THE CORRECT POSITION DURING PLACEMENT OF CONCRETE.
  17. SHOULD CONFLICT ARISE BETWEEN TENDONS, MILD REINFORCING STEEL, OR OTHER CONDUITS, TENDON LOCATIONS SHALL TAKE PRECEDENCE.
  18. 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.
  19. 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.
  20. 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.
  21. 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:
    - a. DETAILED DESIGN OF TENDON END ANCHORAGES.
    - b. THE CALCULATION OF STRESS LOSSES DUE TO CREEP, SHRINKAGE, TENDON RELAXATION, ANCHORAGE SLIP, AND FRICTION.
  22. POST-TENSIONED SHOP DRAWINGS.

**SLAB-ON-GROUND**

- 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 PCF PER THE GEOTECHNICAL INVESTIGATION REPORT.
- C. SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
- 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.
- F. CONTROL JOINTS SHALL BE CUT OUT 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 EACH CONTROL JOINT 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 NOTIFICATION 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.
- I. 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 ½" FROM THE TOP OF SLAB.
- J. REFERENCE ARCHITECTURAL AND MEP DOCUMENTS FOR VAPOR RETARDER AND SLAB AND CONTROL JOINT SEALANT REQUIREMENTS.
- K. CONDUITS SHALL NOT BE PLACED WITHIN THE SLAB. CONDUITS SHALL BE PLACED BENEATH THE SLAB.

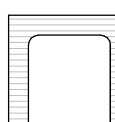
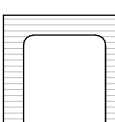
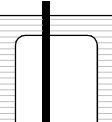
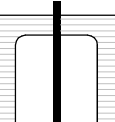
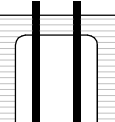
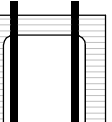
**POST-INSTALLED ANCHORS SPECIFIED PRODUCTS BY APPLICATION**

ANCHOR TYPE		CONCRETE		CONCRETE MASONRY	
MECHANICAL	EXPANSION ANCHORS/ EXPANSION BOLTS		HILTI KWIK BOLT T2 SIMPSON STRONG-BOLT 2 DEWALT POWER-STUD-SD2	HILTI KWIK BOLT 3 SIMPSON STRONG-BOLT 2 DEWALT POWER-STUD-SD1	
	SCREW ANCHORS		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 ACTION+ GOLD	
	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH REBAR		HILTI HIT-HY200 SIMPSON SET-3G DEWALT PURE110- OR PURE220+		



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- CONCRETE MASONRY**
- A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS. ALL MASONRY DESIGN SHALL CONFORM TO TMS 602 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:
- 1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF)
  - 2. 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)
  - 3. GROUT: ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION)
  - 4. PORTLAND CEMENT: ASTM C207, TYPE 'S'
  - 5. HYDRATED LIME: ASTM C404 (FOR GROUT)
  - 6. AGGREGATE: ASTM A615, GRADE 60
  - 7. STEEL REINFORCEMENT: ASTM A1064, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153, TYPE B-2
- C. CONCRETE MASONRY UNITS:
- 1. F<sub>v</sub> 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 COURSE.
- D. MORTAR:
- 1. 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 PLASTERS. IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED, REMOVE MORTAR PROTRUSIONS EXTENDING 1/4 INCHES OR MORE INTO CELLS TO BE GROUTED.
  - 2. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
- E. GROUT:
- 1. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
  - 2. 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 1/2 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
    - b. 1-#5 AT EACH CORNER
    - c. HEAVIER REINFORCEMENT MAY BE REQUIRED BY PLAN NOTES OR DETAILS IN THE DRAWINGS.
  - 2. 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 CORNERS.
  - 5. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING:
    - a. EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES (#5 AND SMALLER BARS); 2 INCHES (#6 AND LARGER BARS)
    - b. NOT EXPOSED TO EARTH OR WEATHER: 1 1/2 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.
  - 7. EXTEND JOINT REINFORCEMENT A MINIMUM OF 4 INCHES INTO THE TIE BEAM.
  - 8. 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 1/4 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.
- I. 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.
- J. USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
- K. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
- L. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS AND DIMENSIONED LOCATION OF OPENINGS. NON-LOAD BEARING 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 BE STRICTLY ENFORCED:
- 1. 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.
  - 2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL MASONRY.
  - 3. 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 RECORD.
  - 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 JOINT DETAIL FOR GUIDELINES AND SPACING.

CMU - REINFORCING SPLICES¹						
BAR WITH SPICE	VERTICAL BARS¹		HORIZONTAL BARS¹			
						
	1 VERT.	2 VERT.	1 VERT. 1 HORIZ.	2 VERT. 1 HORIZ.	1 VERT. 2 HORIZ.	2 VERT. 2 HORIZ.
#4	21"	26"	21"	21"	26"	45"
#5	26"	40"	29"	26"	40"	70"
#6	43"	74"	57"	43"	74"	131"
#7	60"	107"	81"	60"	107"	

- NOTES:**
- 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.
  - SPLICES OF VERTICAL REINFORCEMENT SHALL BE PLACED NEXT TO THE MAIN BAR AS INDICATED IN THE ILLUSTRATION.
  - SPLICES OF HORIZONTAL REINFORCEMENT SHALL BE PLACED VERTICALLY OVER THE MAIN BAR.
  - SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TOW BARS PER COURSE SHALL BE STAGGERED.

WATERFORD CAMPUS - ASSISTED  
LIVING MEMORY CARE BUILDING  
601 UNIVERSE BLVD JUNO BEACH , FL 33048



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

**DESIGN  
DEVELOPMENT**

Project No.: 2021009  
Date: 08/22/2025

**MASONRY  
GENERAL  
NOTES**



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JG Project #: 21.18.004

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

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STRUCTURAL STEEL

- A. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS:
- ROLLED SHAPES AND CHANNELS: ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI
  - ANGLES FOR TRUSSES AND BRACES: ASTM A36 MIN YIELD STRENGTH 36 KSI
  - MISCELLANEOUS ANGLES: ASTM A36
  - HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE C, MIN YIELD STRENGTH 46 KSI FOR ROUND AND 50 KSI FOR RECTANGULAR HSS
- B. CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:
- ANGLES: ASTM A36
  - WELDS: ASTM A992
  - PLATES: ASTM A36
  - BOLTS: ASTM A325
  - NUTS: ASTM A563
  - WASHERS: ASTM A438
  - ANCHOR RODS: ASTM F1554 GRADE 36 WITH WELDABILITY SUPPLEMENT S1
  - WELD ELECTRODES: MATCH FILLER METAL TO BASE METAL PER AWS D1.1
- C. WHERE NO CAMBER IS INDICATED, FABRICATE BEAMS SO THAT ANY EXISTING CAMBER IS UPWARD AFTER ERECTION.
- 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 1/10 DIA. AND SHALL BE GROUNDED SMOOTH. THESE DRINGS MUST BE KEPT CLEAN AND OPEN.
- H. SHOW ALL COPIES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- I. FIELD MODIFICATIONS OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- J. 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 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 BY THE ARCHITECT 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 AISI 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, WELD COUPLER PLATE 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 TO BE FABRICATED AS SHOWN.

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 RSC. 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.

WELDING

- 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 FOLLOW 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 WORKERS 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, COPIES, SURFACE ROUGHNESS VALUES, TAPERS, AND TRANSITIONS OF UNEQUAL PARTS.
- D. 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 DEVELOP 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.
- I. 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 ENGINEER.
- K. A RUN-OFF TAB SHALL BE USED AT ALL BEVEL AND FULL PENETRATION WELDS. RUN-OFF TABS SHALL BE REMOVED BY HEAT CUTS AFTER WELD IS COMPLETED. GRIND SMOOTH WHERE REQUIRED BY DETAIL.
- L. WHERE REQUIRED BY DETAIL, REMOVE WELD BACKING BARS AND GRIND SMOOTH AFTER WELD IS COMPLETED.
- M. WHERE NECESSARY, REMOVE GALVANIZING OR PRIMER PRIOR TO WELDING.
- N. STEEL USING COMPLETE JOINT PENETRATION GROOVE WELDS THAT FUSE THROUGH THE THICKNESS OF THE FLANGE OR WEB SHALL HAVE A MINIMUM CHARTER V-NOTCH IMPACT TESTING VALUE AS FOLLOWS:
- ASTM A568M 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.
  - REGARDLESS OF THICKNESS, ALL TRUSSES, LATERAL SYSTEM MEMBERS (INCLUDING COLUMNS, WIND GIRDERS, BRACES, ETC.) 20 FT-LB AT 70° FAHRENHEIT.
  - 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.
  - TESTING IS TO BE IN ACCORDANCE WITH ASTM A568M, SUPPLEMENTARY REQUIREMENT S30, CHARTER 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 TABLES.
- 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.
- 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.
- 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.
- BRIDGING SHALL BE DESIGNED TO FULLY BRACE TOP CHORD OF JOISTS UNDER SERVICE LOADS FOR JOISTS NOT BRACED BY STEEL ROOF DECK.
  - BOTTOM CHORD OF ROOF JOISTS SHALL BE DESIGNED FOR NET UPLIFT (COMPONENTS & CLADDING) SHOWN ON DIAGRAM ON S-002C, UNLESS NOTED OTHERWISE.
- G. 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:
- K-SERIES: 3/16" x 1" FILLET WELD EACH SIDE.
  - LH AND DLH SERIES: 1/2" x 2" FILLET WELD EACH SIDE.
- J. PROVIDE STANDARD DEPTH OF BEARING FOR ALL JOISTS AS SHOWN BELOW UNLESS NOTED IN DRAWINGS:
- K-SERIES - 2 1/4"
  - LH - 5"
  - 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

- A. ALL STEEL DECK SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE DIVISION 05 SPECIFICATIONS.
- B. STEEL DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION), UNLESS NOTED OTHERWISE.
- C. 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.
- D. SHOP DRAWINGS SHALL BE SUBMITTED INDICATING:
- MATERIAL STRENGTH
  - SECTION PROPERTIES
  - DECK GAGE LAYOUT
  - FASTENER TYPE
  - CONNECTION PATTERN
  - CLOSURE ANGLES
- E. THE CAPACITY OF THE DECK SHALL BE BASED ON CURRENT ICC-ES EVALUATION REPORTS.

STEEL ROOF DECK

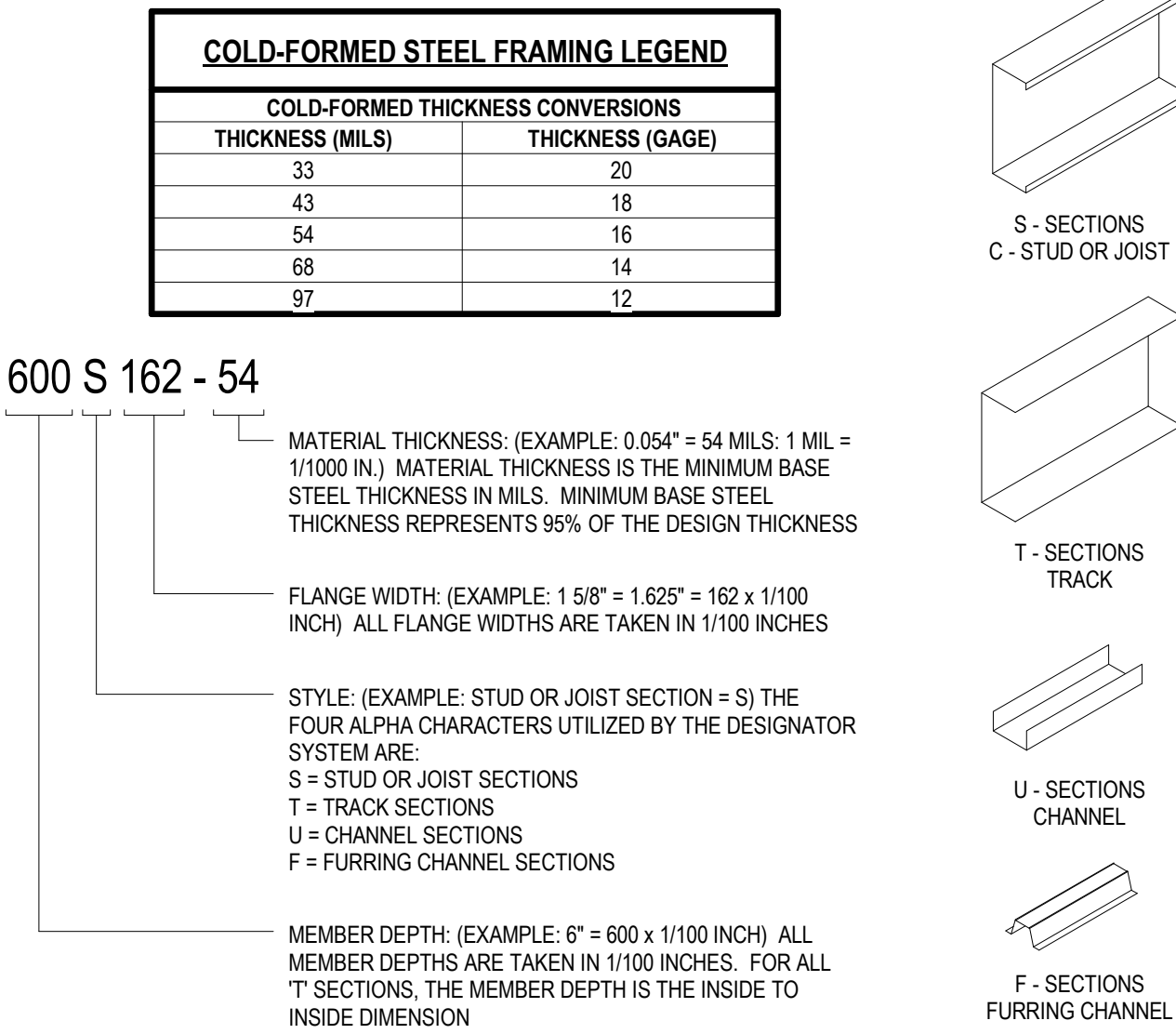
- A. STEEL ROOF DECK SHALL BE A MINIMUM YIELD STRENGTH OF 33 KSI, UNLESS NOTED OTHERWISE. ALL INTERIOR STEEL ROOF DECK SHALL CONFORM TO ASTM A1008, FACTORY PRIMED FOR PAINT. ALL EXPOSED STEEL ROOF DECK SHALL CONFORM TO ASTM A653 WITH G90 HOT-DIPPED GALVANIZATION, UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- B. 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 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.
- C. 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.
- D. ERECT STEEL DECK CLOSURES AND OTHER LIGHT GAGE MATERIAL REQUIRED TO PRODUCE A COMPLETED INSTALLATION.
- E. FLAT, RIDGE, AND VALLEY PLATES.
- F. 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 1/4 INCH PER FOOT.
- G. DO NOT HANG CEILING, 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 RECORD.
- H. 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.

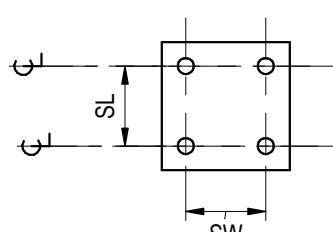
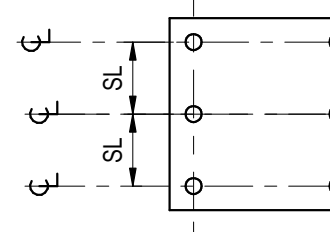

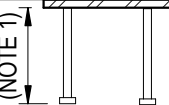
NON-COMPOSITE STEEL FORM DECK

- 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.
- B. 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
  - INTERMEDIATE SUPPORTS: AT 10 INCHES ON CENTER
  - SIDE LAPS: FOR FORM DECK WITH SPANS 3-FEET OR GREATER, PROVIDE TWO CONNECTIONS PER SPAN. HEX HEAD SCREWS, SIZE #10, OR CRIMPING (BUTTON PUNCHING) MAY BE USED AT SIDE LAP CONNECTIONS.

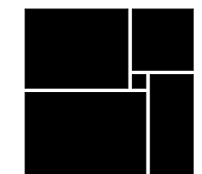
COLD-FORMED STEEL

- A. DESIGN, FABRICATION, AND ERECTION OF COLD-FORMED STEEL SHALL CONFORM TO AISI S100.
- B. ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI S100.
- C. THE CONTRACTOR'S DELEGATED ENGINEER SHALL DESIGN ALL COLD-FORMED STEEL AND ITS CONNECTIONS 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 STRUCTURAL DOCUMENTS.
- 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 3 PSF INTERNAL PRESSURE NORMAL TO THE STRONG AXIS OF FRAMING MEMBERS 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 CENTER.
- H. ALL COLD-FORMED STEEL, 1/4 MIL AND THICKER SHALL HAVE A MINIMUM YIELD STRENGTH (F<sub>y</sub>) 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 STRUCTURE.
- M. DESIGN OF SLIP TRACKS SHALL CONFORM TO GUIDELINES ESTABLISHED IN STEEL STUD MANUFACTURER'S ASSOCIATION TECHNICAL NOTE NO. 1, PUBLISHED JANUARY 2020.
- 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 MANUFACTURER'S 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 PAINT.
- 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.
- T. 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.



STEEL EMBED PLATE SCHEDULE									
MARK	PLATE GEOMETRY (IN)			EDGE DISTANCE	ANCHORS (AWS D1.1, TYPE B)			COMMENTS	REFERENCE DETAIL
	WIDTH	LENGTH	THICKNESS		#	DIAMETER	LENGTH		
									
	<u>LAYOUT WITH 4 ANCHORS</u>				<u>LAYOUT WITH 6 ANCHORS</u>				$T/PLATE = T/SLAB$ (SEE PLAN)
	<u>LAYOUT WITH 4 ANCHORS</u>				<u>LAYOUT WITH 6 ANCHORS</u>				
<u>NOTES:</u>									
1. ANCHOR LENGTH INDICATED IS FINAL LENGTH AFTER BURNOFF.									
2. SEE PLAN FOR LOCATION OF KEYED SECTIONS & DETAILS REFRERENCING EMBED PLATES AND ATTACHMENT OF CONNECTING ELEMENTS.									
3. FOR LAYOUTS WITH MORE THAN 4 ANCHORS SEE KEYED SECTIONS/DETAILS FOR ANCHOR LAYOUTS.									

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STEEL  
GENERAL  
NOTES

S-005



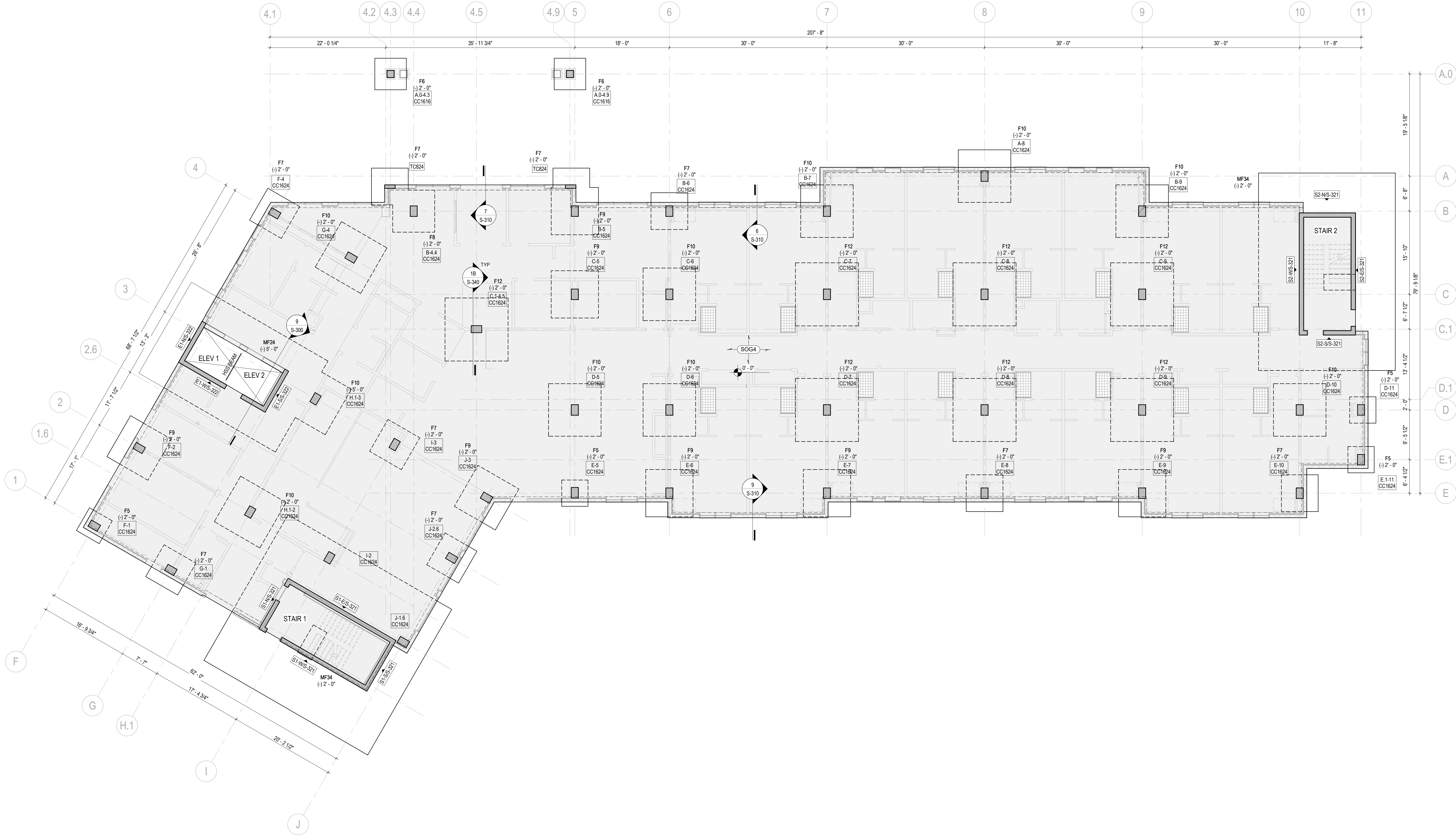
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# 1 S-121 FOUNDATION PLAN

1/8" = 1'-0"

## FOUNDATION PLAN NOTES:

- LOCATION MARK**  
X...X#  
COLUMN MARK  
(SEE SCHEDULE ON THIS SHEET AND NOTE 2)

**FOUNDATION OR PIER MARK**  
(+)-X'-X"  
TOP OF FOOTING/PIER ELEVATION
- DENOTES CONCRETE COLUMN/PIER/WALL.  
FOR COLUMN SCHEDULE AND DETAILS SEE **XXXX** SERIES.  
FOR WALL DETAILS SEE **XXXX** SERIES.
- DENOTES STEEL COLUMN. SEE **XXXX**.
- FOR STEEL COLUMN BASE PLATE INFORMATION. SEE **XXXX**.
- FOR TRENCHES ADJACENT TO FOUNDATIONS. SEE **XXXX**.  
FOR PIPING PASSING UNDER WALL FOUNDATIONS. SEE **XXXX**.  
FOR PIPING PASSING UNDER FOOTINGS ABOVE ARE PREPARED.  
PIPING PASSING UNDER FOUNDATIONS SHALL BE INSPECTED BEFORE FOUNDATIONS ABOVE ARE PREPARED.
- GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY, GENERAL CONTRACTOR SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- DENOTES STEP IN FOUNDATION. SEE **XXXX**.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XX** CC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NONLOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XX** CC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES SHOWER DEPRESSION.

## SLAB-ON-GROUND PLAN NOTES:

- REFERENCE BUILDING TOP-OF-SLAB ELEVATION = (+)-X'-X" (XX.XX NAVD).
- SOG#** DENOTES SLAB-ON-GROUND MARK (SEE SCHEDULE ON THIS SHEET).
- SJ DENOTES SLAB-ON-GROUND CONTROL JOINT. FOR CONTROL JOINT REQUIREMENTS, SEE **XXXX**.
- FOR RE-ENTRANT CORNER BARS. SEE **XXXX**.
- INSTALL THICKENED SLAB UNDER STAIR STRINGER. SEE **XXXX**.
- FOR THICKENED SLAB UNDER NON-LOAD BEARING CONCRETE MASONRY WALLS. SEE **XXXX**.
- GENERAL CONTRACTOR SHALL COORDINATE HOUSEKEEPING PAD LOCATIONS.
- DENOTES STEP IN TOP OF SLAB. SEE **XXXX**.
- SEE CIVIL DRAWINGS FOR BASE AND SUBGRADE PREPARATION INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR:
  - VAPOR BARRIER REQUIREMENTS AND LOCATIONS.
  - ALL SLOPED SLAB AREAS.
  - ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS.
  - MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS.
  - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
  - SLAB SLOPES, DRAINS, STEPS, PENETRATIONS, FINISHES, AND ANY OTHER ADDITIONAL INFORMATION.

SLAB-ON-GROUND SCHEDULE			
MARK	THICKNESS	REINFORCEMENT	REMARKS
SOG4	4"		

MAT FOUNDATION SCHEDULE			
MARK	THICKNESS	REINFORCEMENT	
		TOP	BOTTOM
MF24	24"		
MF34	34"		

ISOLATED FOOTING SCHEDULE					
MARK	GEOMETRY		REINFORCEMENT		
	WIDTH	LENGTH	THICKNESS	LONG BARS	SHORT BARS
F5	5'-0"	5'-0"	18"		
F6.0	6'-0"	6'-0"	24"		
F7	7'-0"	7'-0"	24"		
F8	8'-0"	8'-0"	24"		
F9	9'-0"	9'-0"	24"		
F10	10'-0"	10'-0"	24"		
F12	12'-0"	12'-0"	24"		

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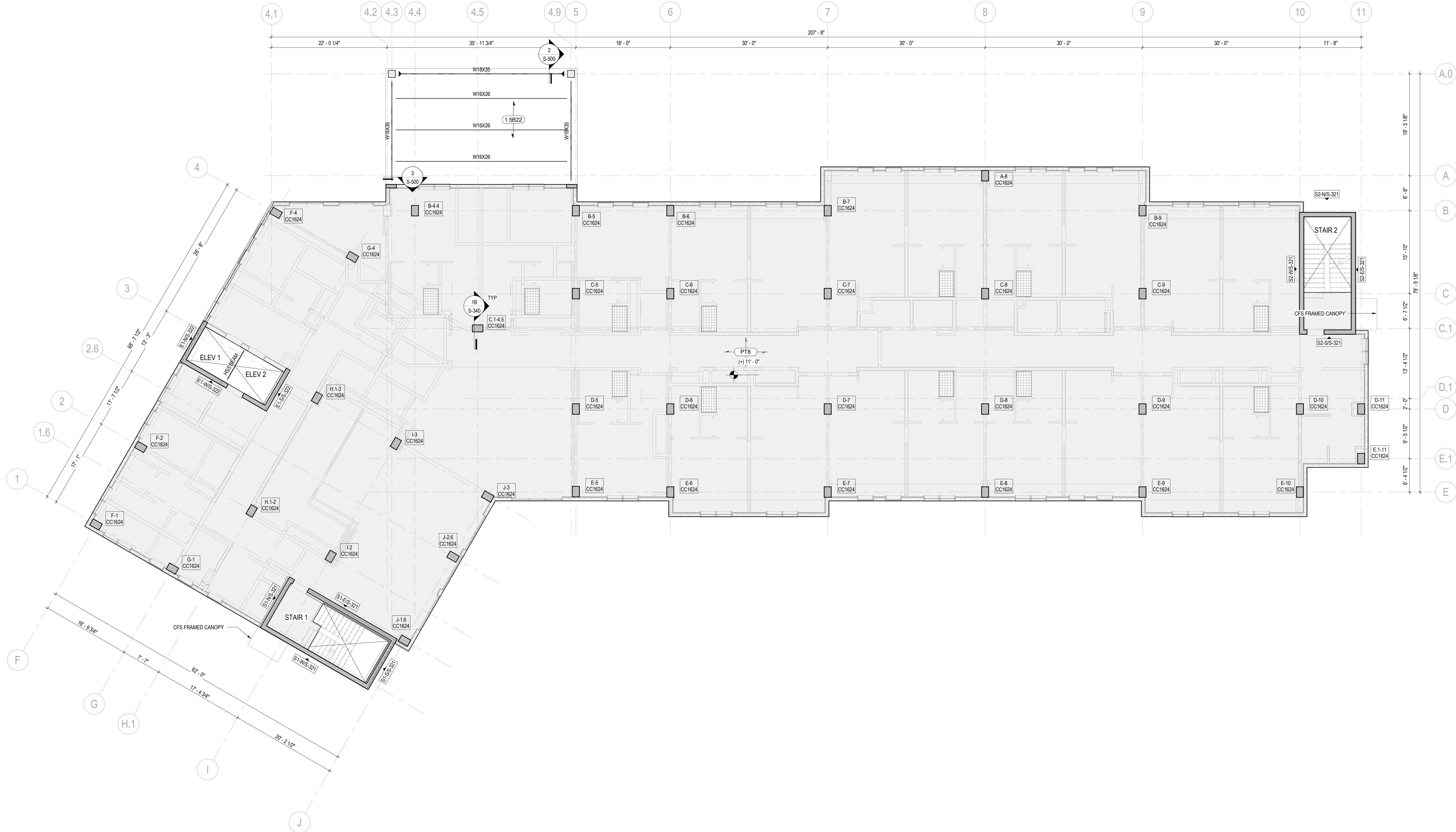
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**FOUNDATION  
PLAN**

**S-121**



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1 SECOND FLOOR FRAMING PLAN  
S-122 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)
- SEE PLAN FOR TOP OF SLAB ELEVATIONS
- DENOTES CONCRETE COLUMN/PIER/WALL.  
FOR COLUMN SCHEDULE AND DETAILS SEE **SXXXX** SERIES.  
FOR WALL DETAILS SEE **SXXXX** SERIES.
- DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XX**" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES NON-LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH **XX** AT **XX**" OC VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
- DENOTES STEP IN TOP OF SLAB, SEE **SXXXX**.
- 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 DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
- 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 RECORD.
  - 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 RECORD.
- FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.
- DENOTES SHOWER DEPRESSIONS.



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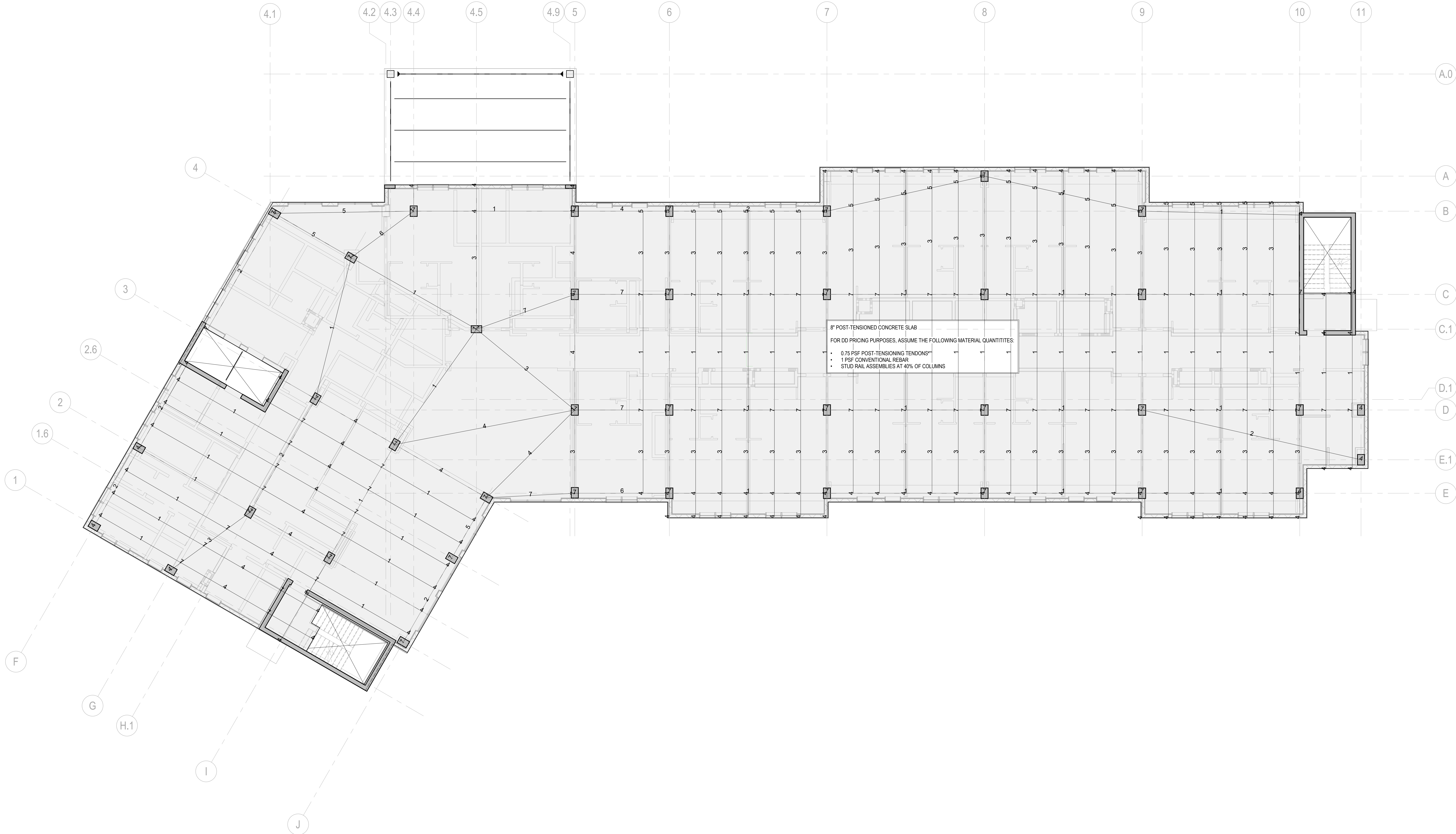
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SECOND  
FLOOR  
FRAMING  
PLAN

S-122



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1  
S-122-PT

## SECOND FLOOR PT PLAN

1/8" = 1'-0"

### POST-TENSIONED CONCRETE SLAB PLAN NOTES:

- SEE FRAMING PLAN FOR SLAB GEOMETRY, REFERENCE ELEVATION, AND KEYED SECTIONS.
- SEE POST-TENSIONED FRAMING GENERAL NOTES ON SHEET **SXXXX** AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
- FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE **SXXXX**.
- 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 OFFSETS 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:
  - # 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 ABOVE.
  - F = # KLF DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.
  - 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 LAYER.

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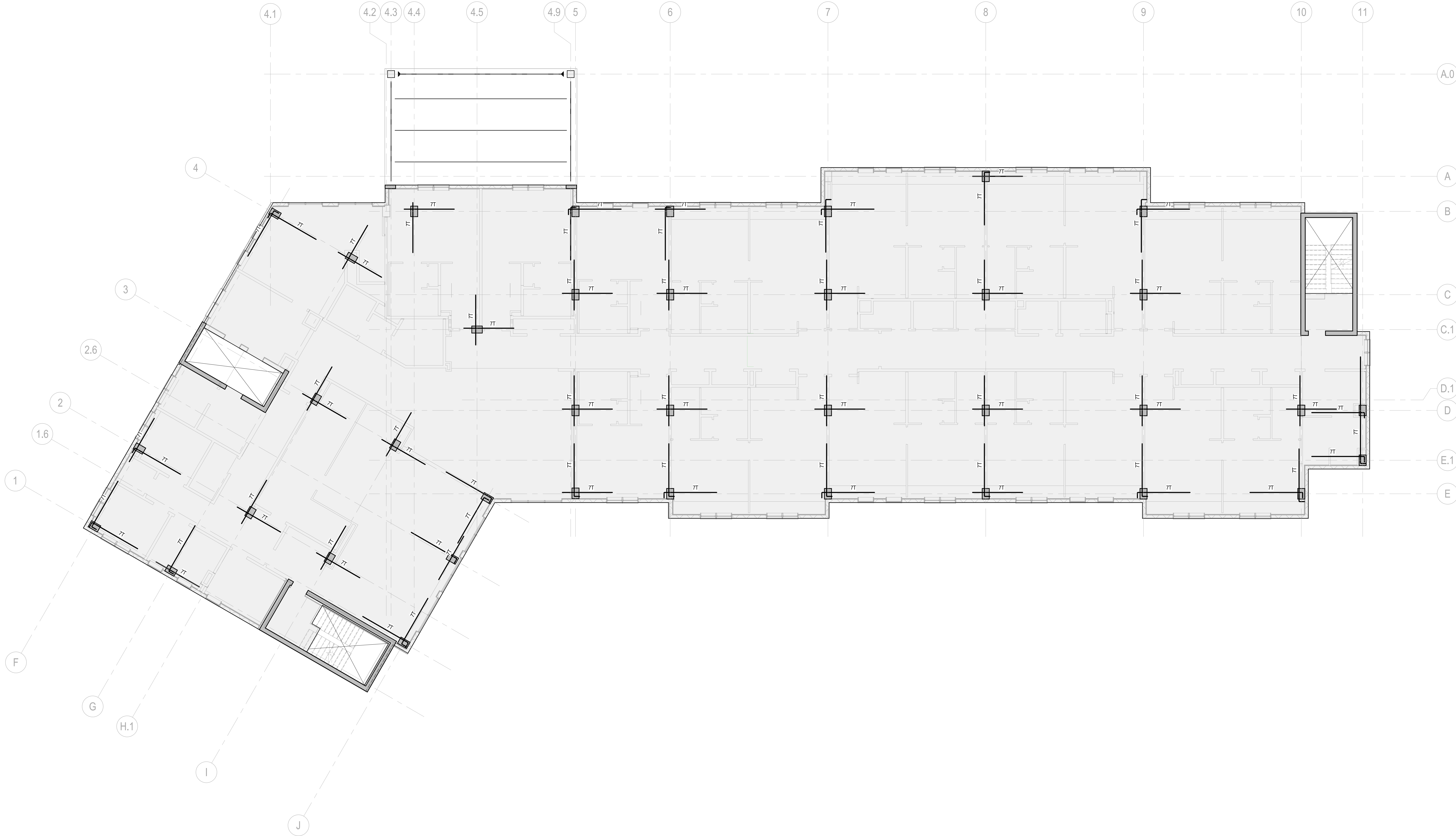
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**SECOND  
FLOOR PT  
PLAN**

**S-122-PT**



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S-122-R

## SECOND FLOOR REINFORCING PLAN

1/8" = 1'-0"

### CONCRETE SLAB REINFORCEMENT PLAN NOTES:

- FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.
- PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE **SXXXX**). SEE **SXXXX** FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- #ISR-#(##) DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).
- SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

#### A. MAT REINFORCEMENT (SEE SCHEDULE).

PLACEMENT PRIORITY (SEE **SXXXX**)

ARROWS DENOTE EXTENT (SINGLE & DOUBLE ARROWS AS DEFINED IN NOTE S.B)

MAT REINFORCEMENT MARK (SEE SCHEDULE ON THIS SHEET)

#### B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE **SXXXX**).

BAR SPACING OVER WIDTH OR QUANTITY SHOWN

ACI STANDARD 180° HOOK (ALL TOP BARS HOOKED AT EDGE-OF-SLAB EVEN WHEN NOT INDICATED)

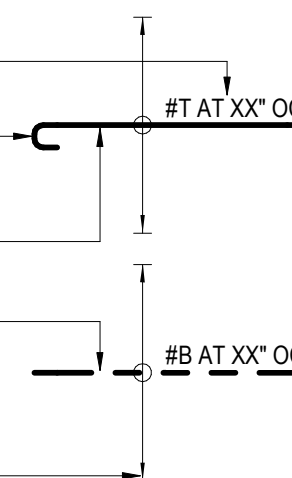
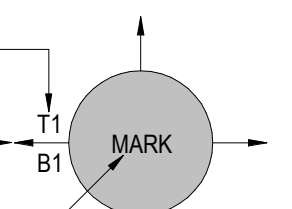
SOLID LINE DENOTES TOP BARS (OR TOP & BOTTOM)

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 (SEE **SXXXX**).

#### D. REINFORCEMENT AT COLUMNS (SEE **SXXXX**).

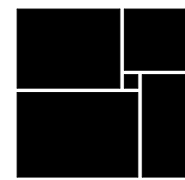


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FLOOR  
REINFORCING  
PLAN

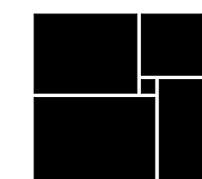
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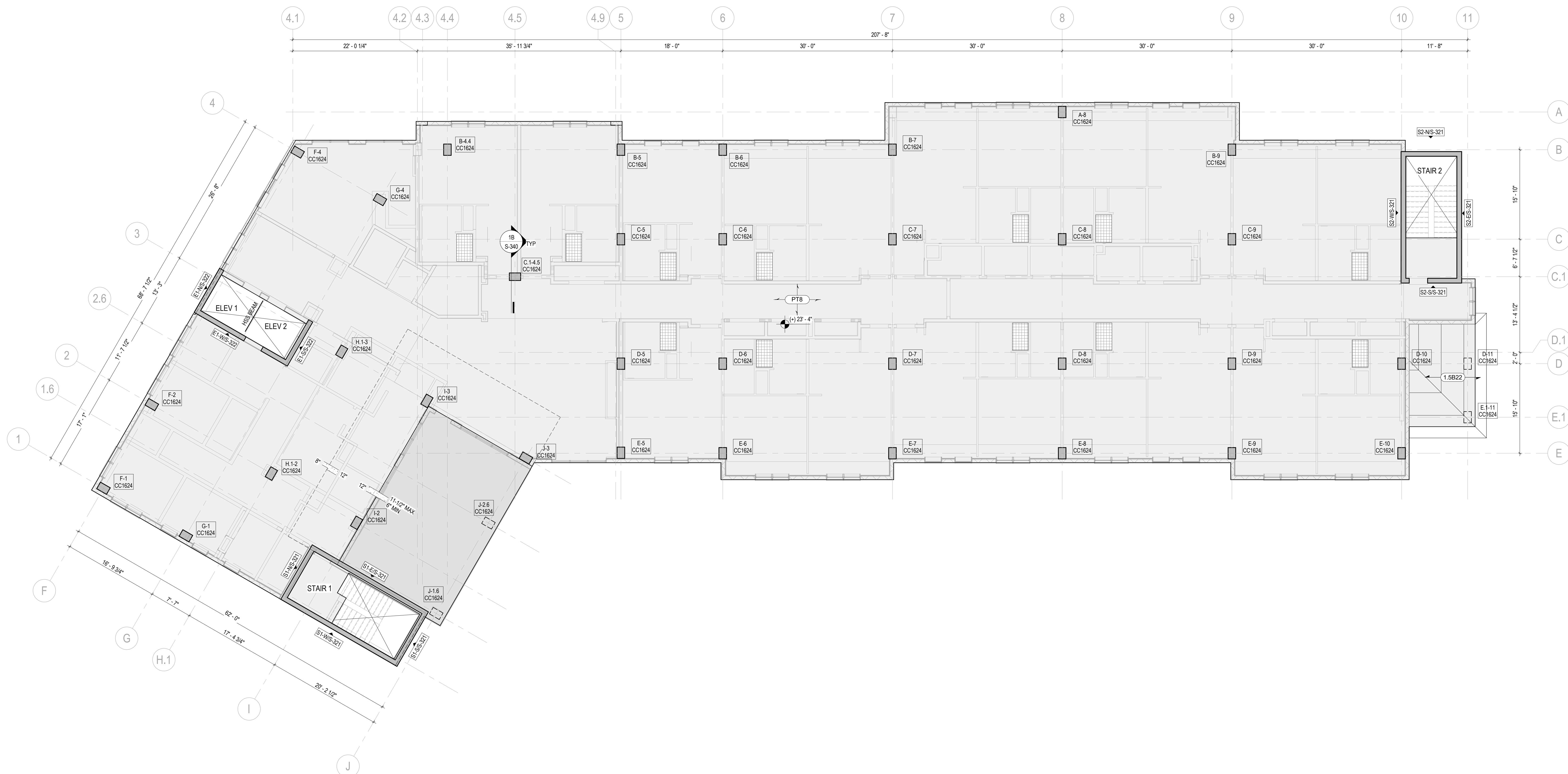
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### THIRD FLOOR FRAMING PLAN






**S-123**



1 THIRD FLOOR FRAMING PLAN  
S-123 1/8" = 1'-0" CONCRETE FRAMING PLAN NOTES:

$$1/8'' = 1'-0''$$

## CONCRETE FRAMING PLAN NOTES

- CONCRETE SLAB TAG
- ARROWS DENOTES SLAB SPAN DIRECTION
- CSM# DENOTES SLAB MARK
- 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 SXXXX SERIES. FOR WALL DETAILS SEE SXXXX SERIES.
4.  DENOTES LOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH EX AT XXC OR VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
5.  DENOTES NONLOAD BEARING CONCRETE MASONRY UNIT (CMU) WALL WITH EX AT XXC OR VERTICAL REINFORCEMENT, CENTERED IN FULLY-GROUTED CELL.
6.  DENOTES STEP IN TOP OF SLAB. SEE SXXXX.
7. 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 DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
8. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL FLOOR PENETRATIONS. SLEEVES AND INSERTS REQUIRED TO BE CAST IN THE SLAB.
- SLEEVES AND PENETRATIONS WITHIN 6 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 RECORD.
- 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 RECORD.
9. FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET SXXXX
10. FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET SXXXX
11.  DENOTES SHOWER DEPRESSIONS.



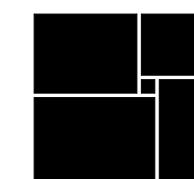
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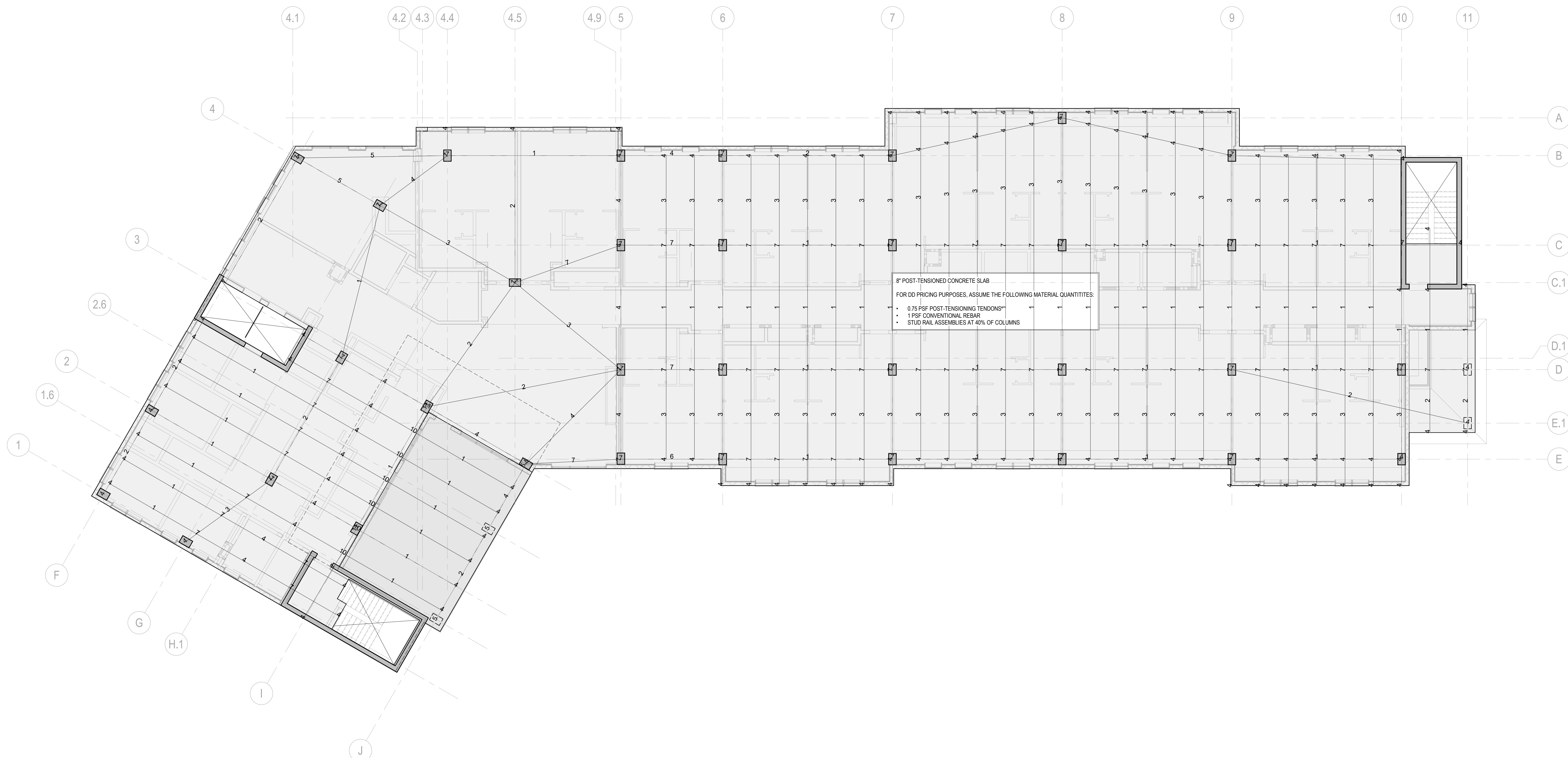
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**THIRD FLOOR  
PT PLAN**

**S-123-PT**



1  
S-123-PT THIRD FLOOR PT PLAN  
1/8" = 1'-0"

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 XXXXX AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE XXXXX.
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 PERIMETRAL REINFORCEMENT CAGE.
  - COLUMN AND/OR HORIZONTAL TENDON LAYOUT SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH HORIZONTAL CURVES/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 DRAP ELEVATION NOTES:
  - # \_\_\_\_\_ DENOTES PT TENDON DRAP ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRavity OF THE TENDON(S)/STRAND BUNDLE (CSS).
  - AT DEAD ENDS AND STRESSING ENDS, CSS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-SPAN FOR BEAM CONDITIONS). OTHERWISE, CSS SHALL BE LOCATED AT THE TENDON CENTERLINE.
  - TENDON HIGH POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BENDED TENDON LINES) AS INDICATED ABOVE.
  - TENDON LOW POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.
6. TENDON FORCE NOTES:
  - $F = F + K$  DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS, WITHIN BENDED TENDON GROUP OR BEAM.
  - BENDED TENDON GROUPS SHALL BE PLACED IN PLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 12 INCHES ON CENTER, WITH TENDONS PLACED IN ONE LAYER.
  - TOTAL QUANTITY OF BENDED TENDONS SHALL BE EQUALLY DISTRIBUTED EACH SIDE OF THE COLUMN, MINUS A MINIMUM OF (2) TENDONS PASSING THROUGH THE COLUMN REINFORCEMENT CAGE PER NOTE ABOVE.
  - $F = F + KLF$  DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDON BUNDLES.
  - UNIFORMLY DISTRIBUTED TENDON BUNDLES SHALL BE PLACED IN PLAT BUNDLED GROUPS OF NO MORE THAN (5) TENDONS PER BUNDLE, SPACED AT NO MORE THAN 5" ON CENTER, WITH TENDONS PLACED IN ONE LAYER.



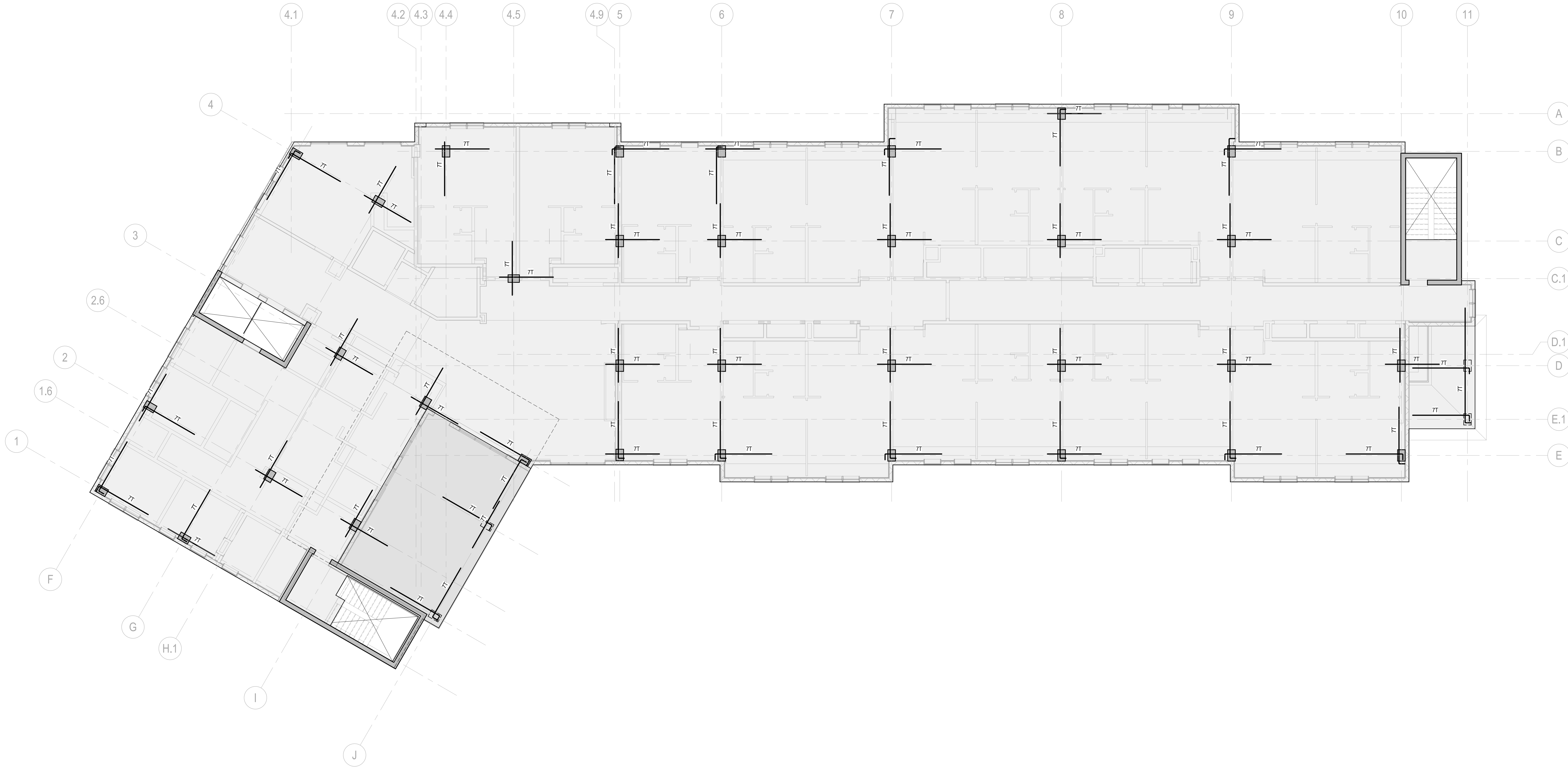
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S-123-R

## THIRD FLOOR REINFORCING PLAN

1/8" = 1'-0"

### CONCRETE SLAB REINFORCEMENT PLAN NOTES:

- FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.
- PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE **SXXXX**). SEE **SXXXX** FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- #SR-#(R)** DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).
- SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

#### A. MAT REINFORCEMENT (SEE SCHEDULE).

PLACEMENT PRIORITY (SEE **SXXXX**)

ARROWS DENOTE EXTENT

(SINGLE & DOUBLE ARROWS AS

DEFINED IN NOTE 5.B)

MAT REINFORCEMENT MARK

(SEE SCHEDULE ON THIS SHEET)

#### B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE **SXXXX**)

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

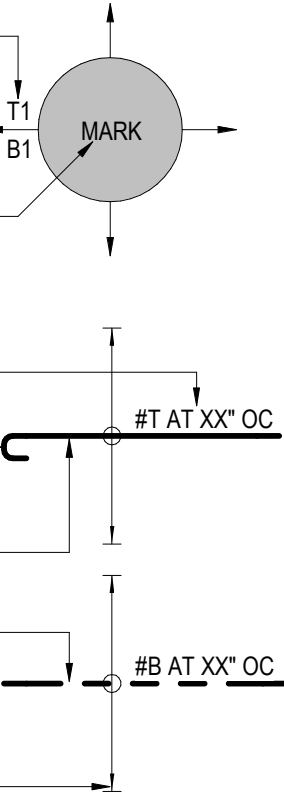
PLACEMENT: DOUBLE ARROW DENOTES EXTENT

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

ELEMENT (AS APPLICABLE)

#### C. TYPICAL NOMENCLATURE (SEE **SXXXX**)

#### D. REINFORCEMENT AT COLUMNS (SEE **SXXXX**)



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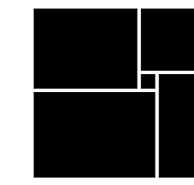
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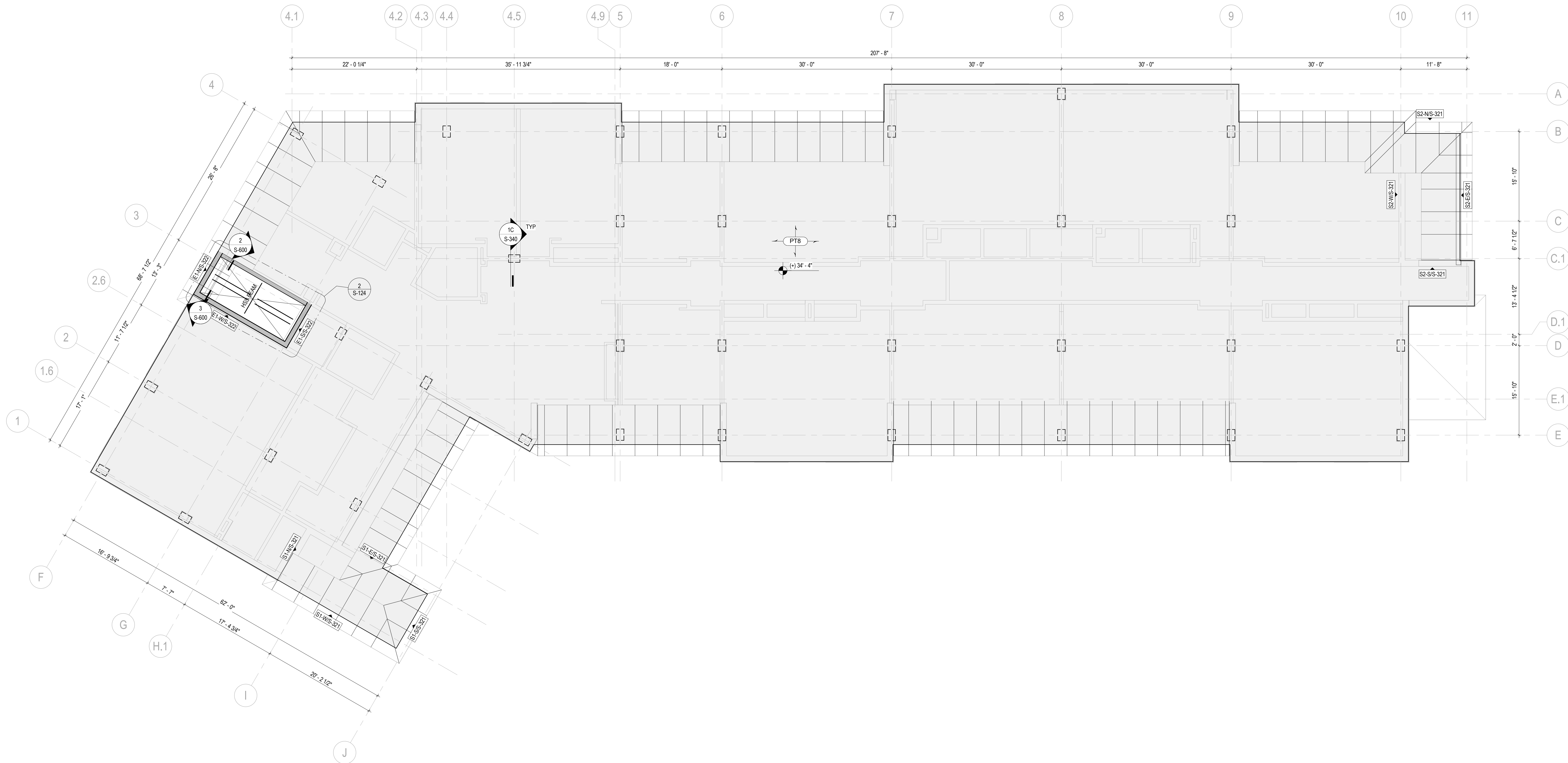
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S-124

## ROOF FRAMING PLAN

1/8" = 1'-0"

### CONCRETE FRAMING PLAN NOTES:

#### 1. CONCRETE SLAB TAG:

ARROWS DENOTE SLAB SPAN DIRECTION  
CS# 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 **SXXXX** SERIES.  
FOR WALL DETAILS SEE **SXXXX** SERIES.

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

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

DENOTES STEP IN TOP OF SLAB. SEE **SXXXX**.

#### 7. 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 DISCREPANCIES OR DIMENSIONS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS FOR CLARIFICATION.

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 RECORD.
- 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 RECORD.

FOR REINFORCEMENT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

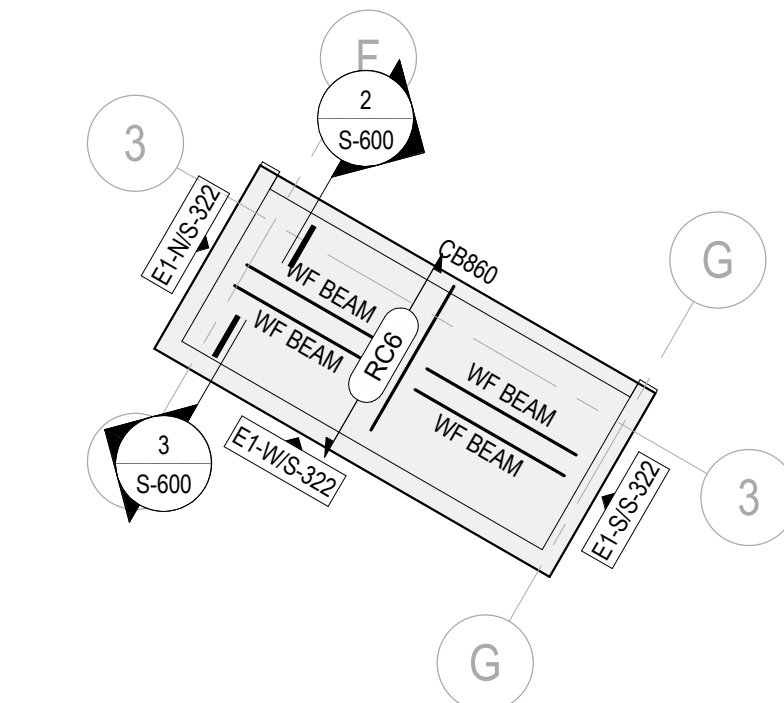
FOR POST-TENSIONED LAYOUT PLAN AND ADDITIONAL NOTES, SEE SHEET **SXXXX**.

DENOTES SHOWER DEPRESSIONS.

2  
S-124

## ELEVATOR HIGH ROOF PLAN

1/8" = 1'-0"



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## ROOF FRAMING PLAN

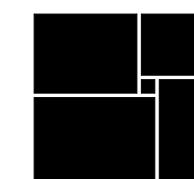
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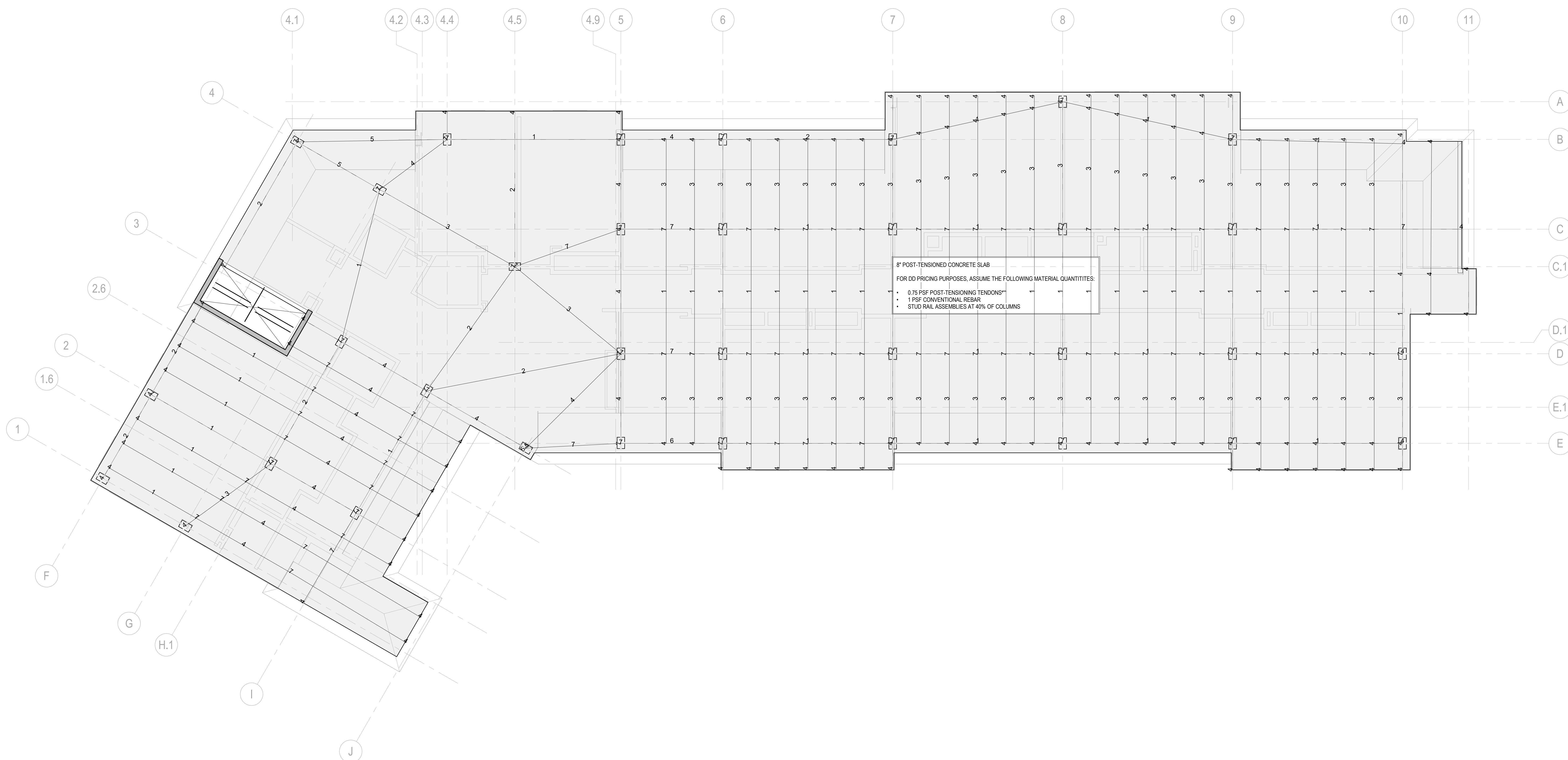
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## DESIGN DEVELOPMENT

Project No.: 2021009  
Date: 08/22/2025

ROOF PLAN

**S-124-PT**



8" POST-TENSIONED CONCRETE SLAB

FOR DD PRICING PURPOSES, ASSUME THE FOLLOWING MATERIAL QUANTITIES:

- 0.75 PSF POST-TENSIONING TENDONS
- 1 PSF CONVENTIONAL REBAR
- STUD RAIL ASSEMBLIES AT 40% OF COLUMNS

ROOF PT PLAN

$$1/8'' = 1'-0''$$

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 XXXXX AND DIVISION 03 SPECIFICATIONS FOR GENERAL REQUIREMENTS.
3. FOR TYPICAL POST-TENSIONED CONCRETE SECTIONS AND DETAILS, SEE XXXXX.
4. TENDON LAYOUT NOTES:
  - LINEWORK SHOWING FOR TENDON PATHS IS SCHEMATIC TO ILLUSTRATE DESIGN INTENT, BUT NOT MEANT TO INDICATE EXACT TENDON PATHS OR SPACING OF TENDON OR UNIFORMITY OF DISTRIBUTED TENDON BUNDLES.
  - A MINIMUM OF 10' TENDON SPACING SHALL PASS THROUGH EACH COLUMN IN EACH DIRECTION, WITH TENDONS LOCATED INSIDE OF THE COLUMN VERTICAL REINFORCEMENT CAGE.
  - STRAIGHT LINE HORIZONTAL ORIENTATIONS SHOWN IN THE LAYOUT PLAN SHALL BE ACCOMPLISHED WITH SMOOTH ORIENTAL CURVE/SWEEP PER DETAILS.
  - MAINTAIN CLEAR COVER BETWEEN EDGE-OF-SLAB (INCLUDING INTERIOR OPENINGS) AS INDICATED IN THE PROJECT SPECIFICATIONS AND TYPICAL DETAILS REFERRED ABOVE.
5. TENDON DRAPE ELEVATION NOTES:
  - # DENOTES TP TENDON DRAPE ELEVATION IN INCHES, MEASURED FROM BOTTOM OF SLAB / FRAMING TO THE CENTER-OF-GRAVITY OF THE TENDON'S STRAND BUNDLE (CGS).
  - AT JOISTS AND STRUTTING BEAMS, CGS SHALL BE LOCATED AT THE CENTROID OF THE FRAMING (MID-DEPTH FOR CREATION OF NOTCHES), UNLESS OTHERWISE NOTED.
  - TENDON HIGHT POINTS SHALL BE LOCATED AT SUPPORTS (COLUMNS, WALLS, BEAMS, BANDED TENDON LINES) AS INDICATED ABOVE.
  - TENDON HIGHT POINTS SHALL BE LOCATED AT MID-SPAN BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE.

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 ABOVE.

- $F = \# \times K_L F$  : DENOTES EFFECTIVE PRESTRESS FORCE, IN KIPS PER LINEAR FOOT, IN UNIFORMLY DISTRIBUTED TENDONS.

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 LAYER.

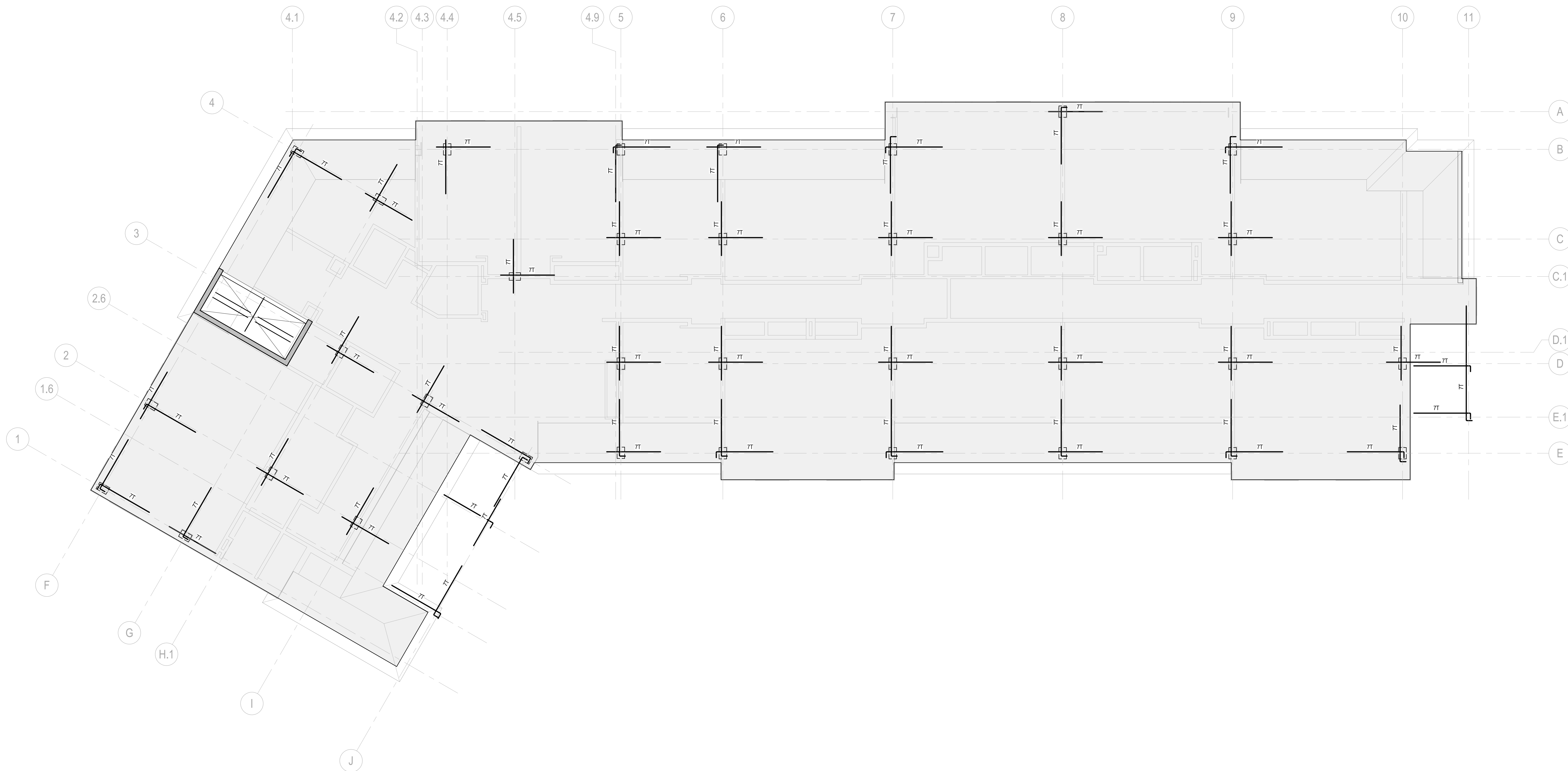


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SPECIFICATIONS COMPLY WITH THE  
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MATERIAL SPECIFICATIONS.

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1  
S-124-R

## ROOF REINFORCING PLAN

1/8" = 1'-0"

### CONCRETE SLAB REINFORCEMENT PLAN NOTES:

- FOR TYPICAL SLAB REINFORCEMENT DETAILS, SEE **SXXXX**.
- PROVIDE CONTINUOUS REINFORCEMENT AROUND PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES (SEE **SXXXX**). SEE **SXXXX** FOR CONCEPTUAL LAYOUT (NOT INDICATIVE OF PROJECT SPECIFIC GEOMETRY) AND SPLICE/DEVELOPMENT REQUIREMENTS.
- SLAB REINFORCEMENT SHALL BE #5 UNLESS NOTED OTHERWISE.
- #SR-#(#-#) : DENOTES SHEAR STUD RAILS (SEE SCHEDULE ON THIS SHEET AND **SXXXX**).
- SLAB REINFORCEMENT SYMBOLS AND NOMENCLATURE:

#### A. MAT REINFORCEMENT (SEE SCHEDULE).

PLACEMENT PRIORITY (SEE **SXXXX**)

ARROWS DENOTE EXTENT

(SINGLE & DOUBLE ARROWS AS

DEFINED IN NOTE 5.B)

MAT REINFORCEMENT MARK

(SEE SCHEDULE ON THIS SHEET)

#### B. ISOLATED/DISTRIBUTED REINFORCEMENT (SEE **SXXXX**).

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 (SEE **SXXXX**).

#### D. REINFORCEMENT AT COLUMNS (SEE **SXXXX**).



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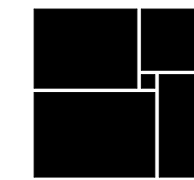
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JG Project #: 21.18.004

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08/22/25	DESIGN	DEVELOPMENT

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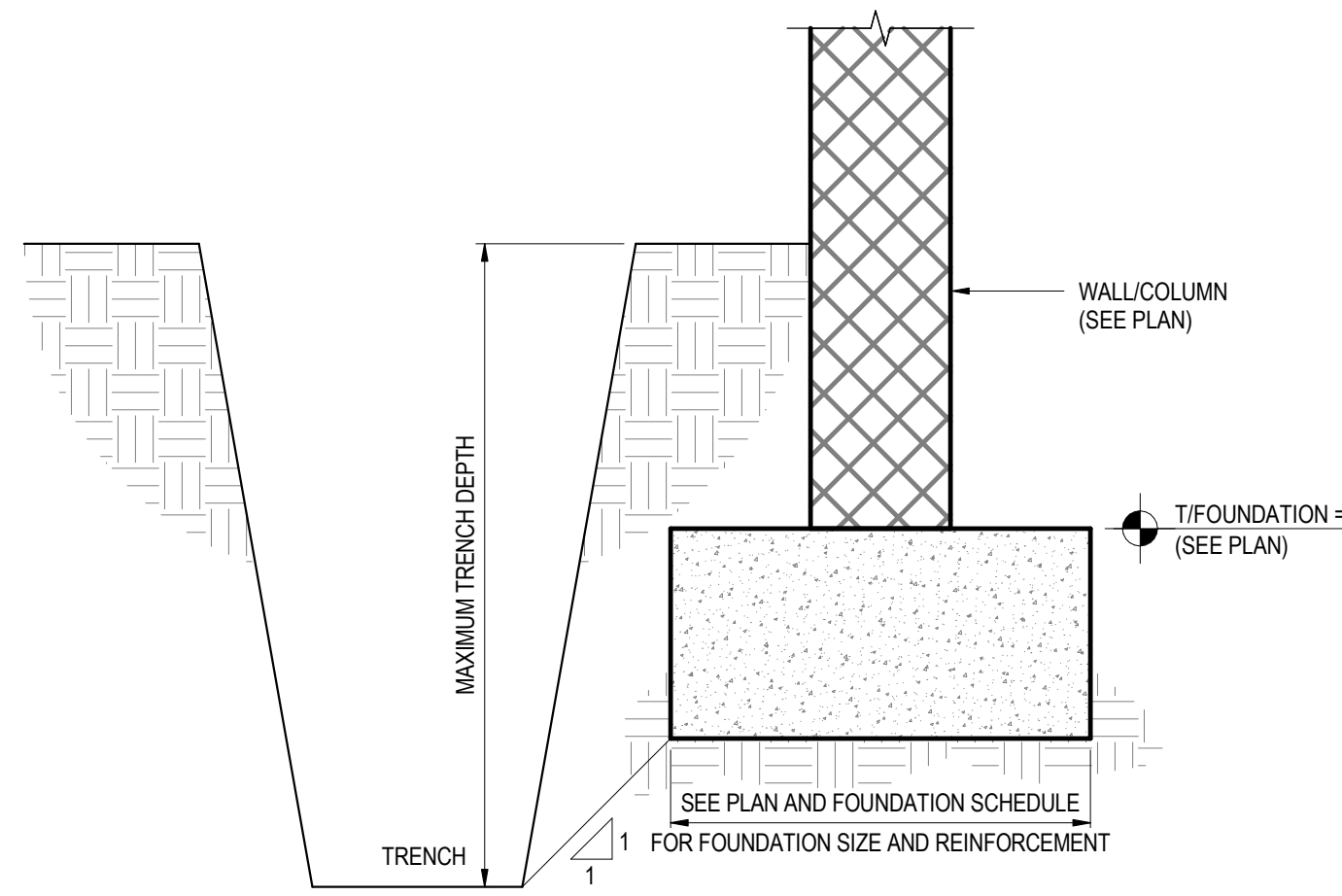
ROOF  
REINFORCING  
PLAN

S-124-R

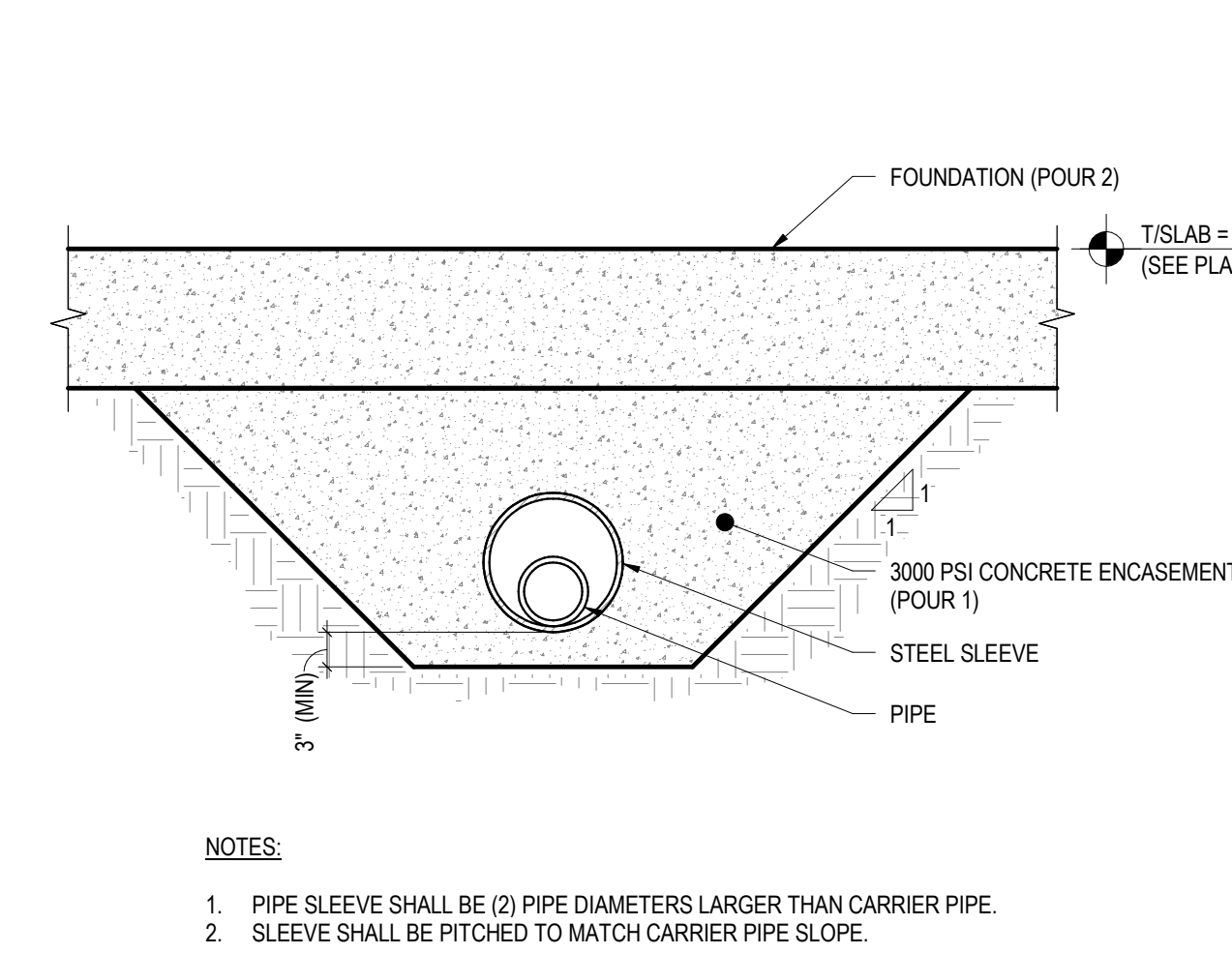
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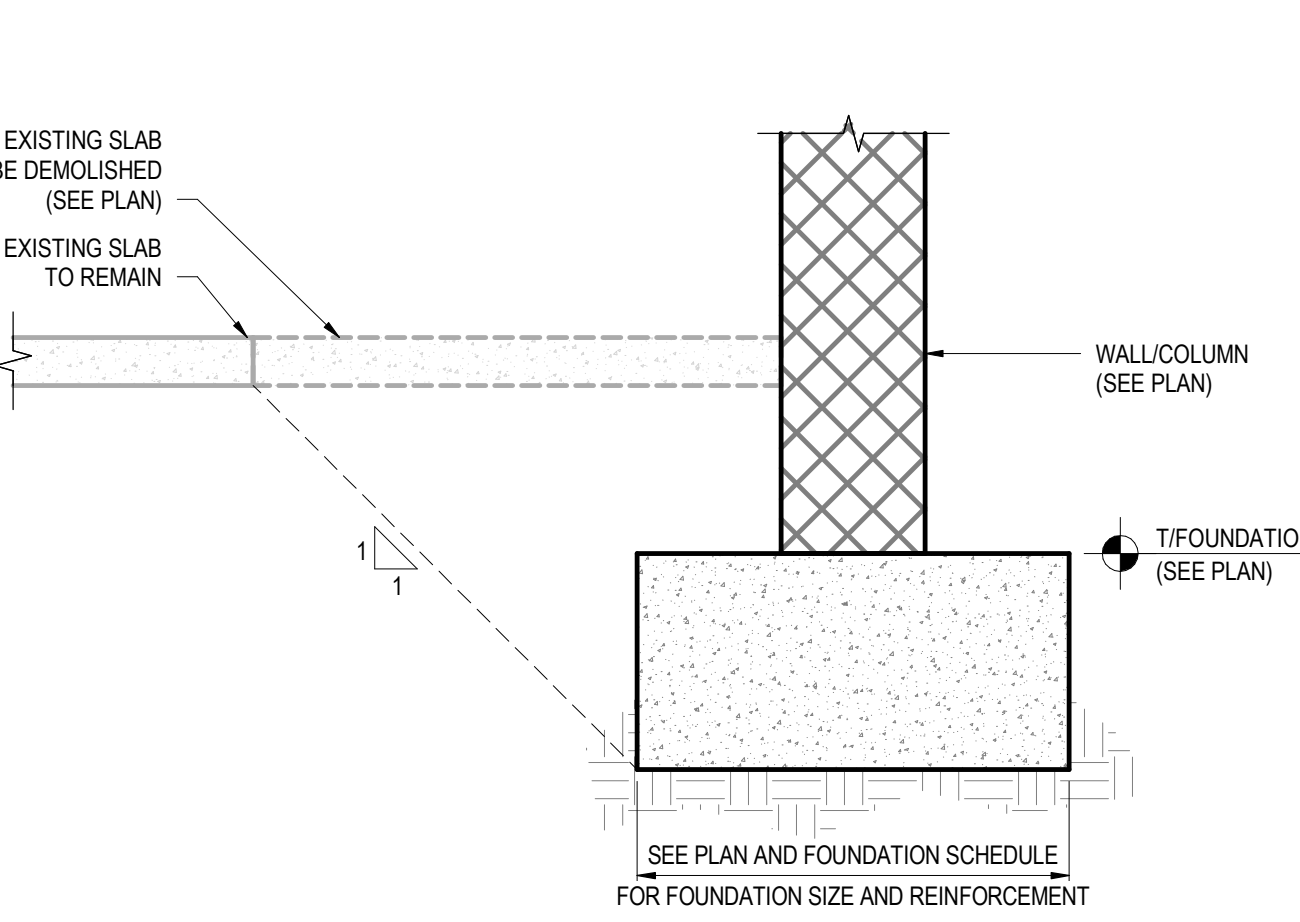
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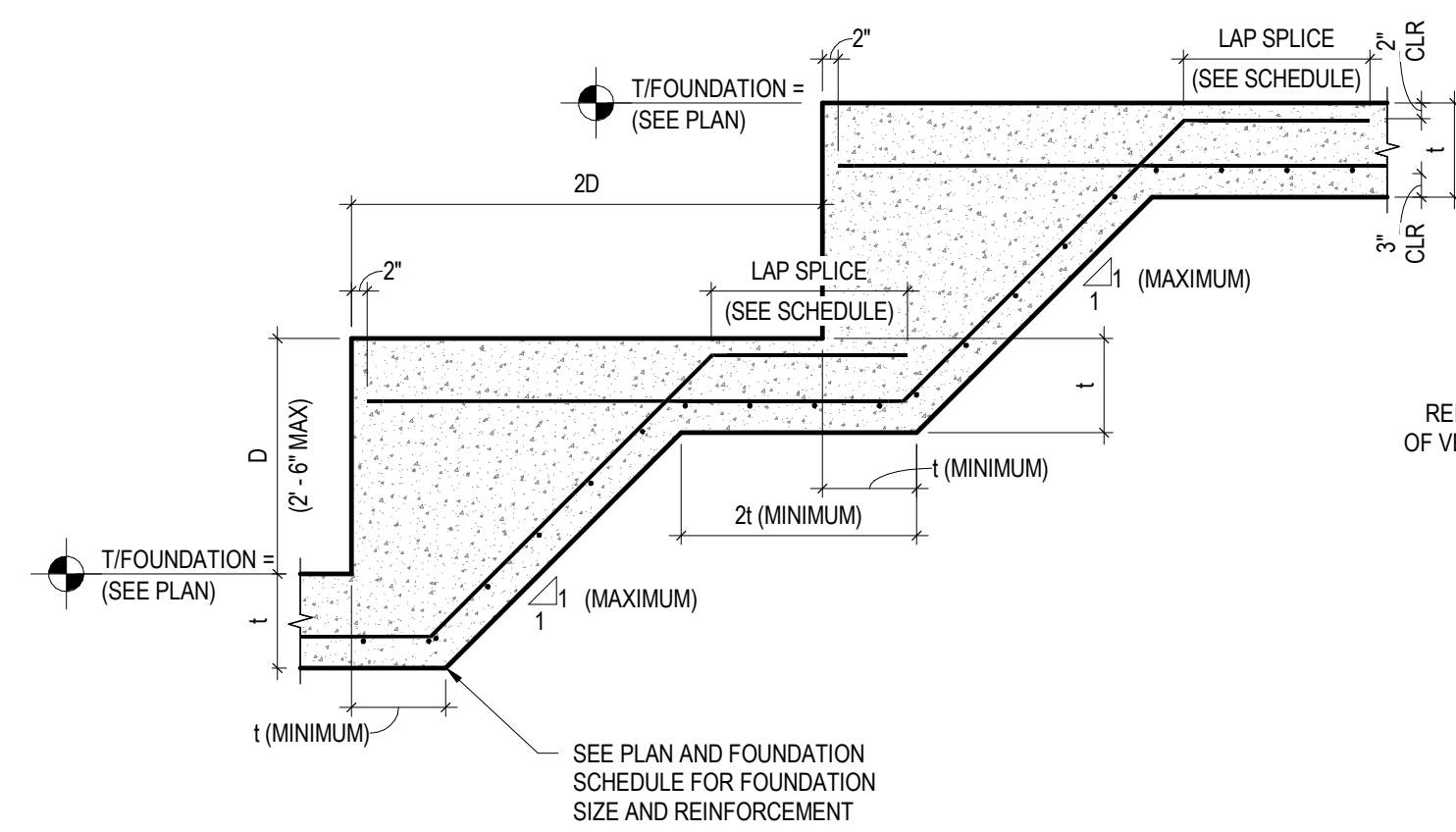
1 FOUNDATION ADJACENT TO TRENCH  
3/4" = 1'-0"



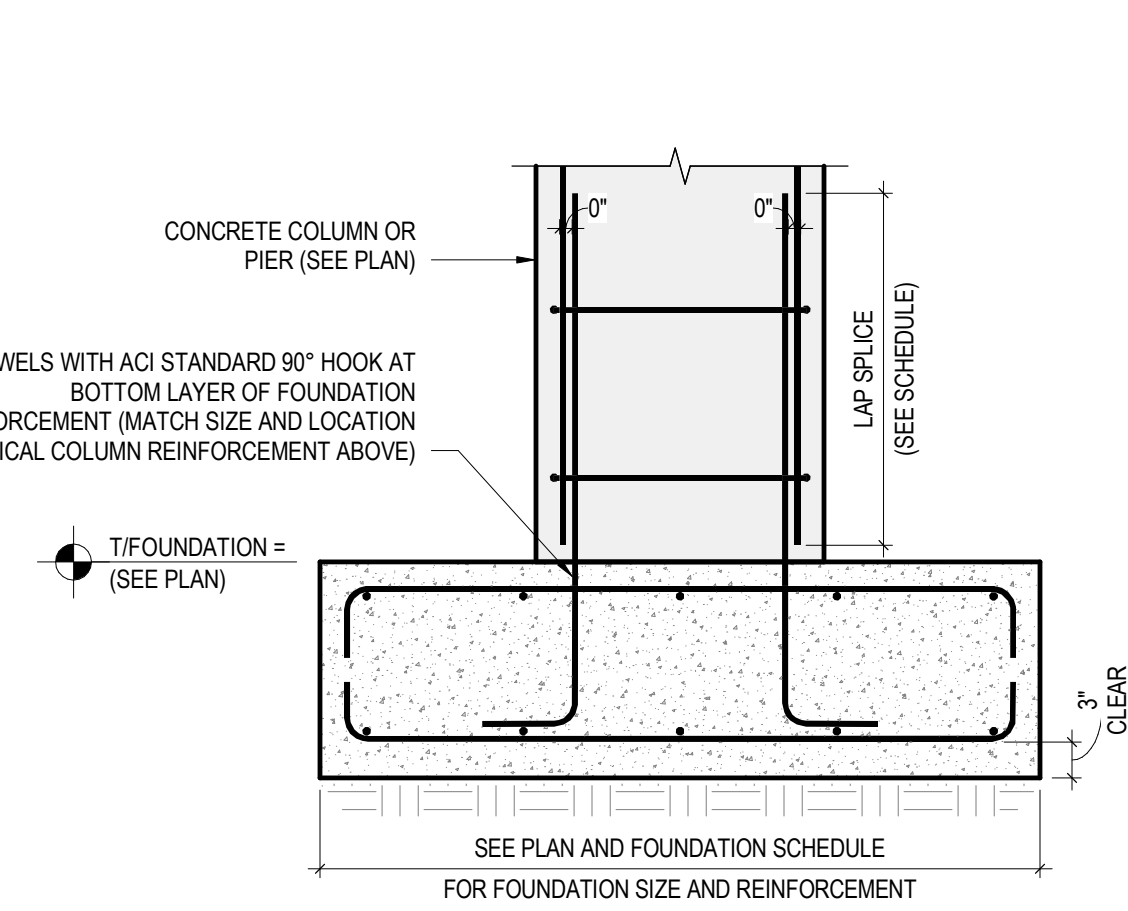
2 PIPE UNDER FOUNDATION  
3/4" = 1'-0"



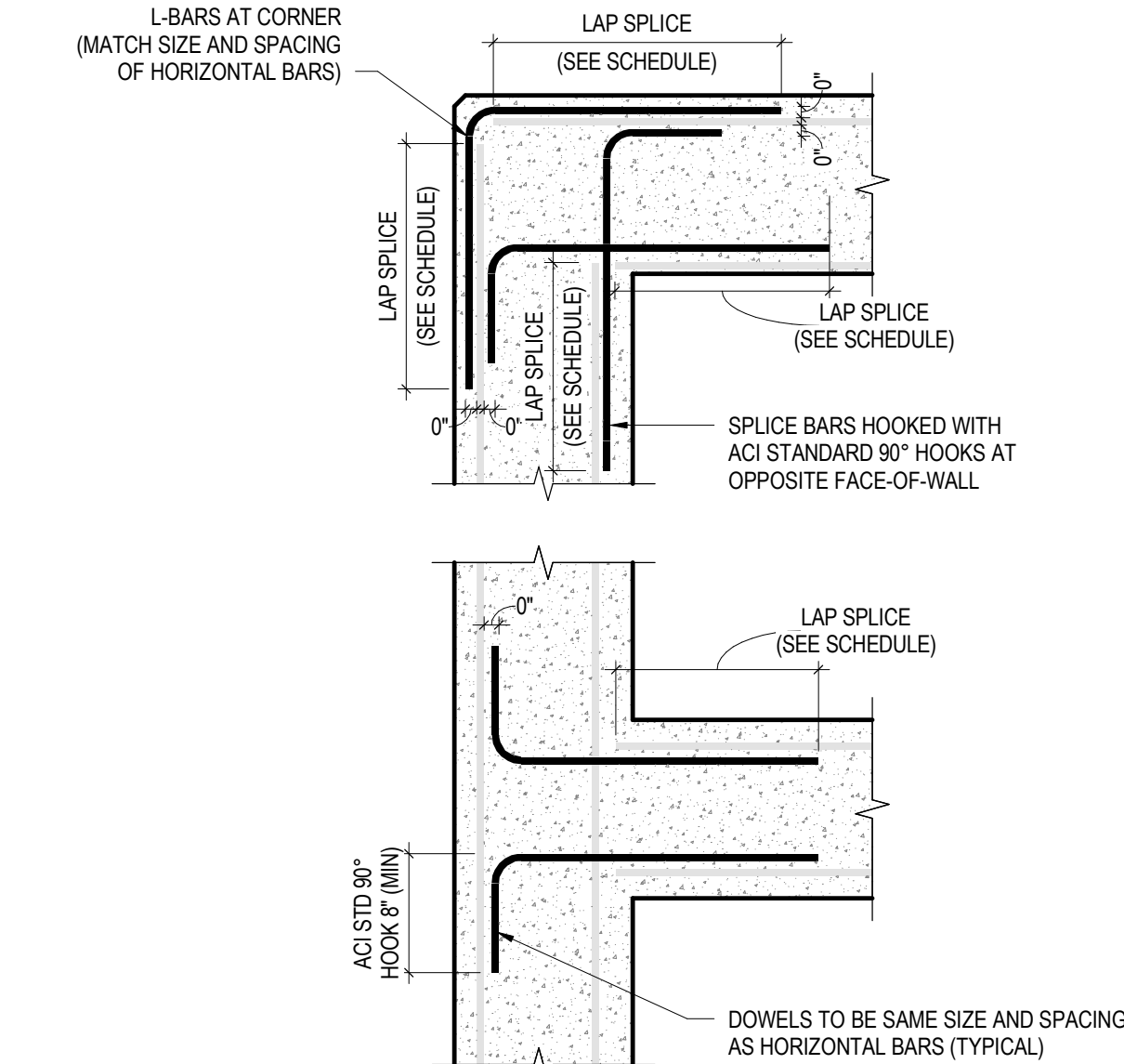
3 FOUNDATION ADJACENT TO EXISTING SLAB  
3/4" = 1'-0"



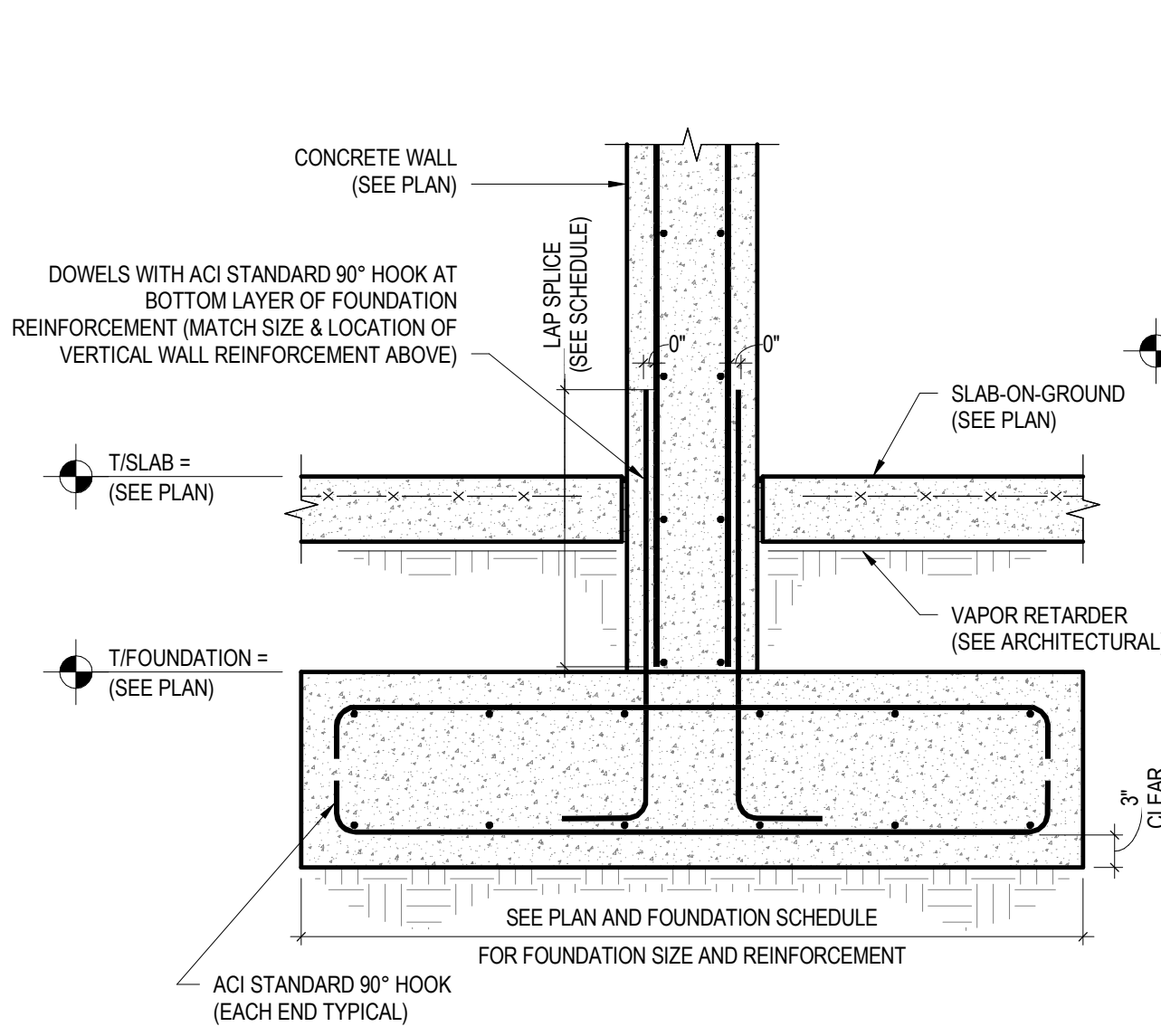
4 STEPPED CONTINUOUS WALL FOUNDATION  
1/2" = 1'-0"



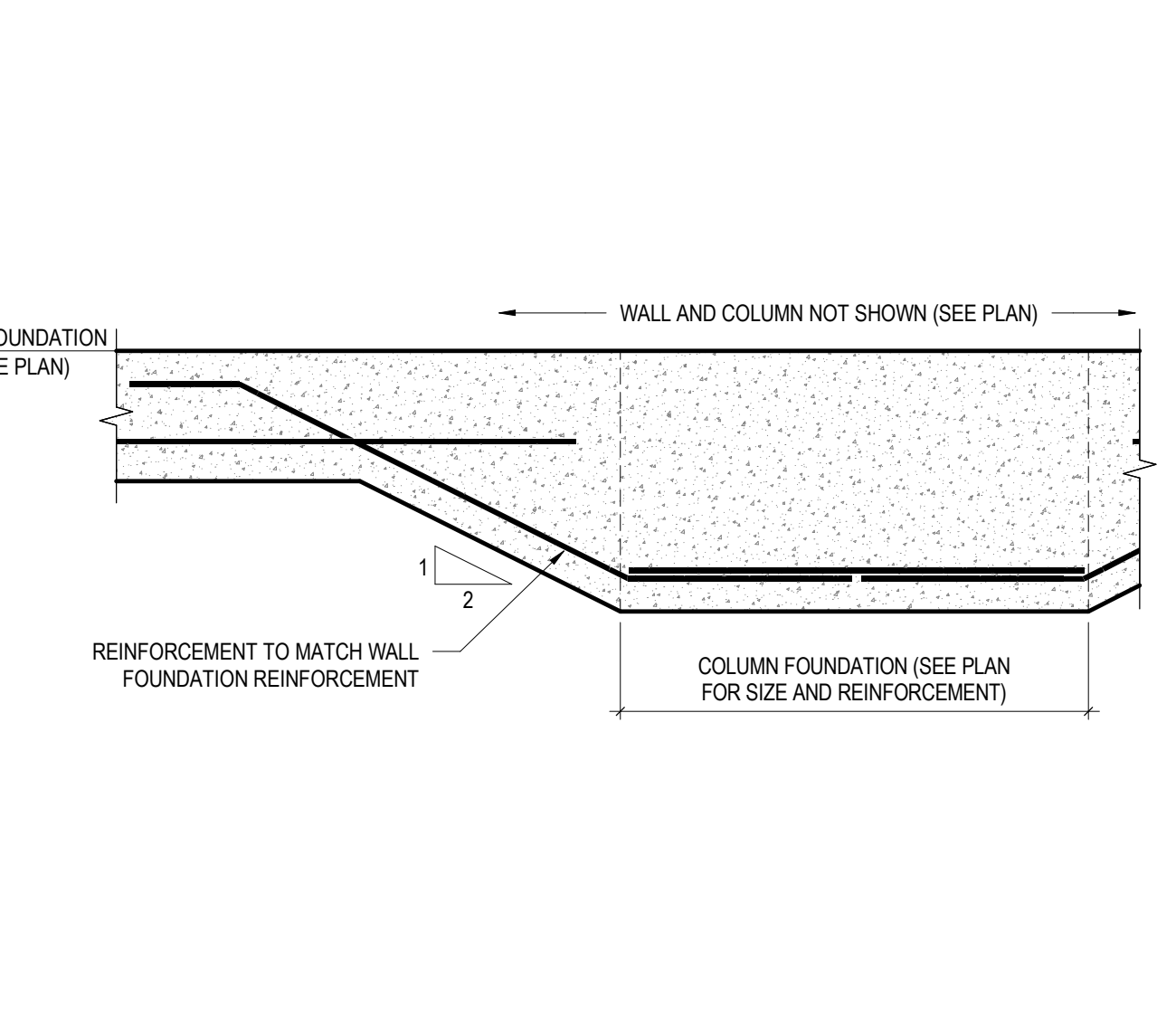
5 CONCRETE COLUMN/PIER FOUNDATION  
3/4" = 1'-0"



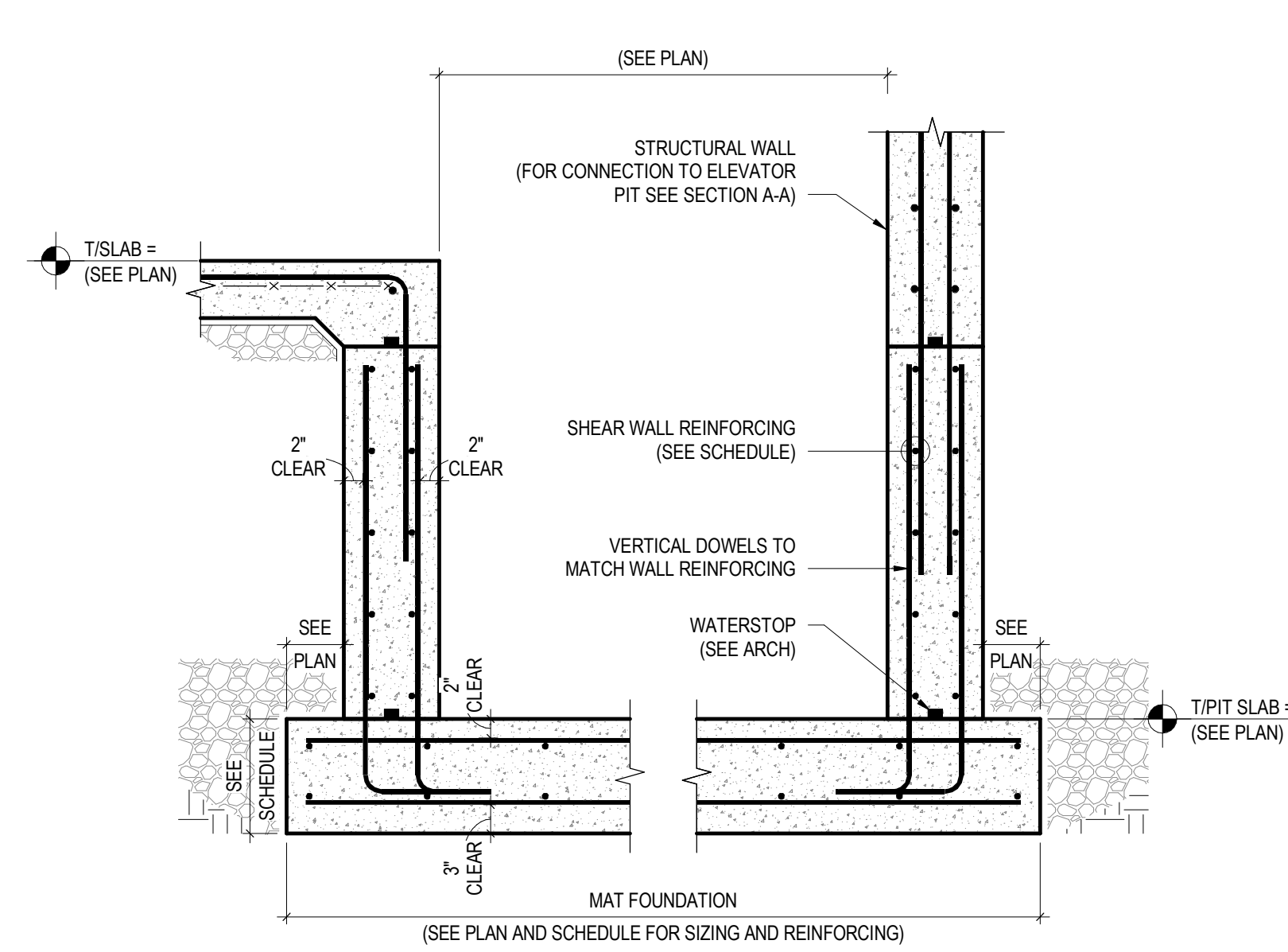
6 CORNER BARS AT WALLS & FOUNDATIONS  
1" = 1'-0"



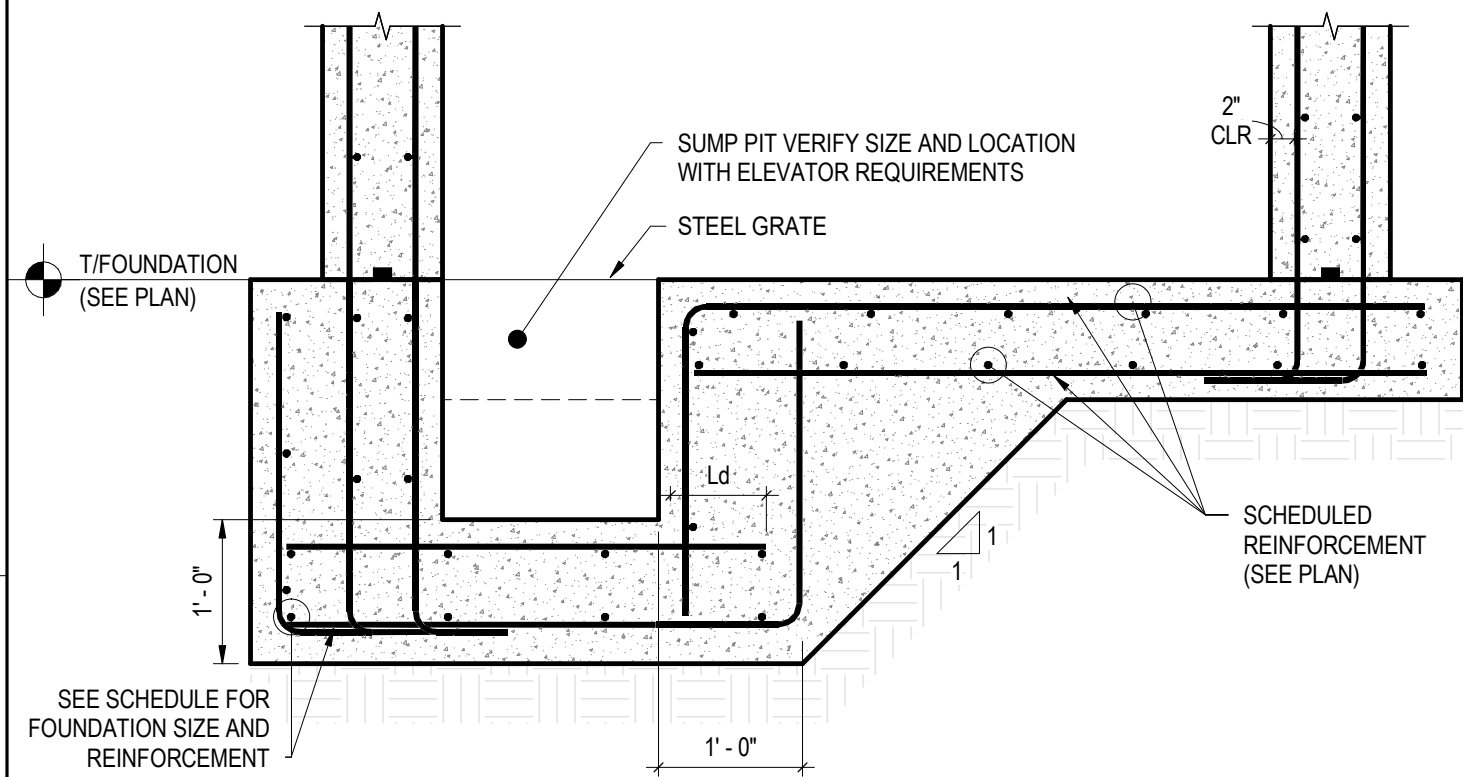
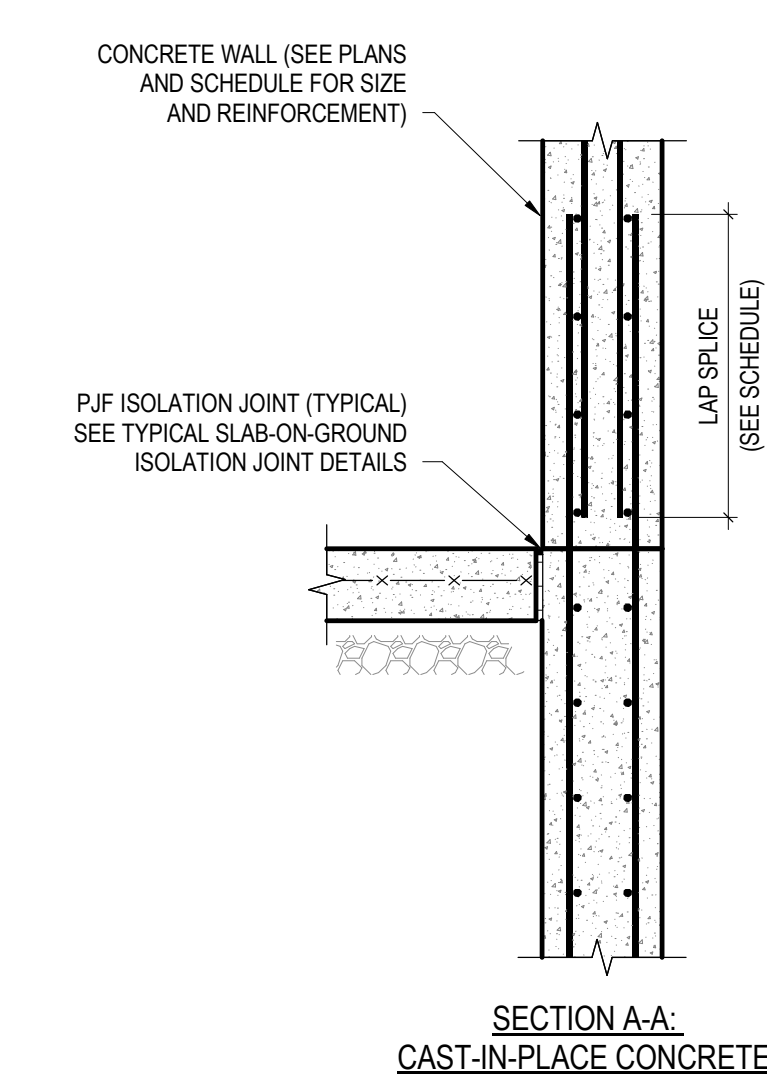
7 FOUNDATION AT CONCRETE WALL  
3/4" = 1'-0"



8 WALL FOUNDATION TO COLUMN FOUNDATION TRANSITION  
3/4" = 1'-0"



9 ELEVATOR PIT  
3/4" = 1'-0"

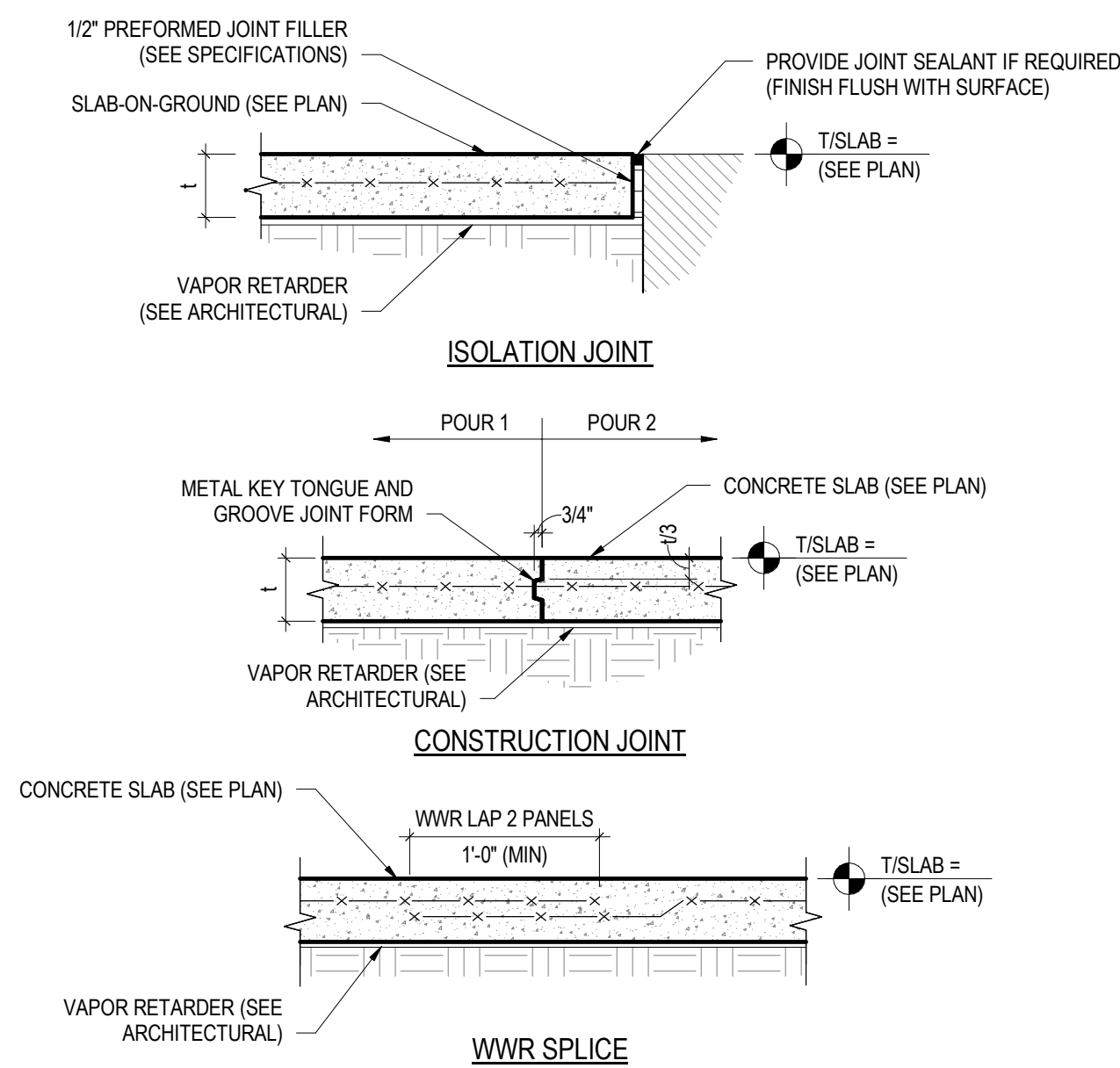


10 ELEVATOR SUMP PIT  
3/4" = 1'-0"

- NOTES:
- GC SHALL CONFIRM ALL DIMENSIONS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.

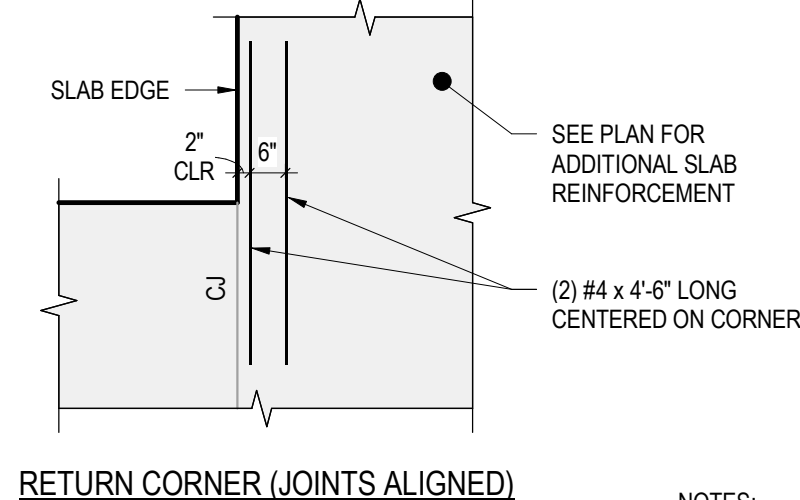
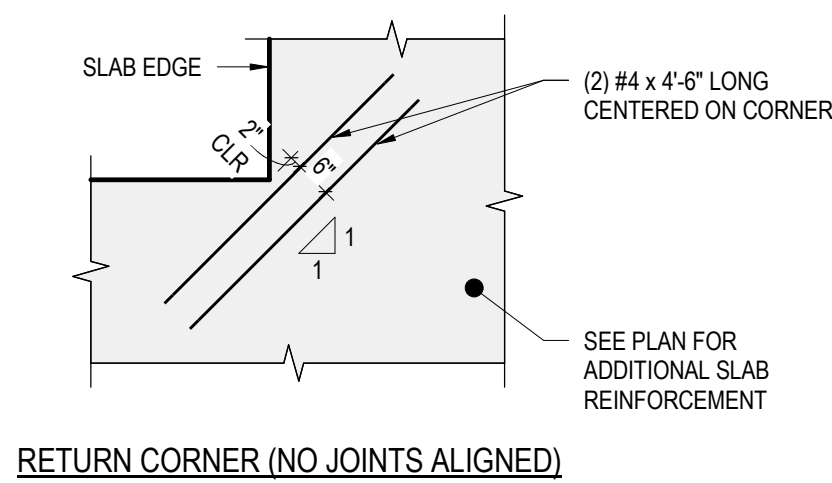
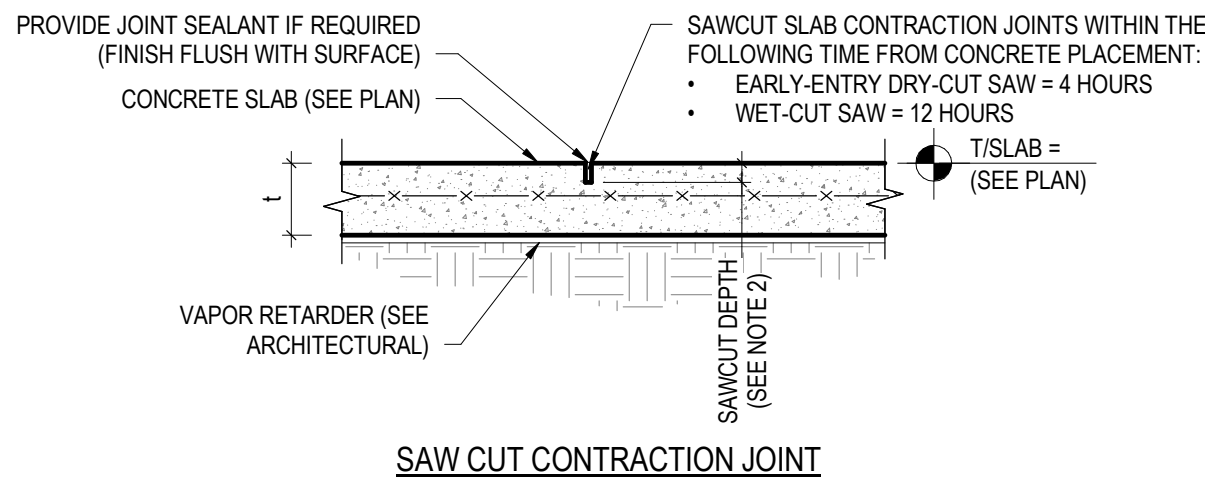


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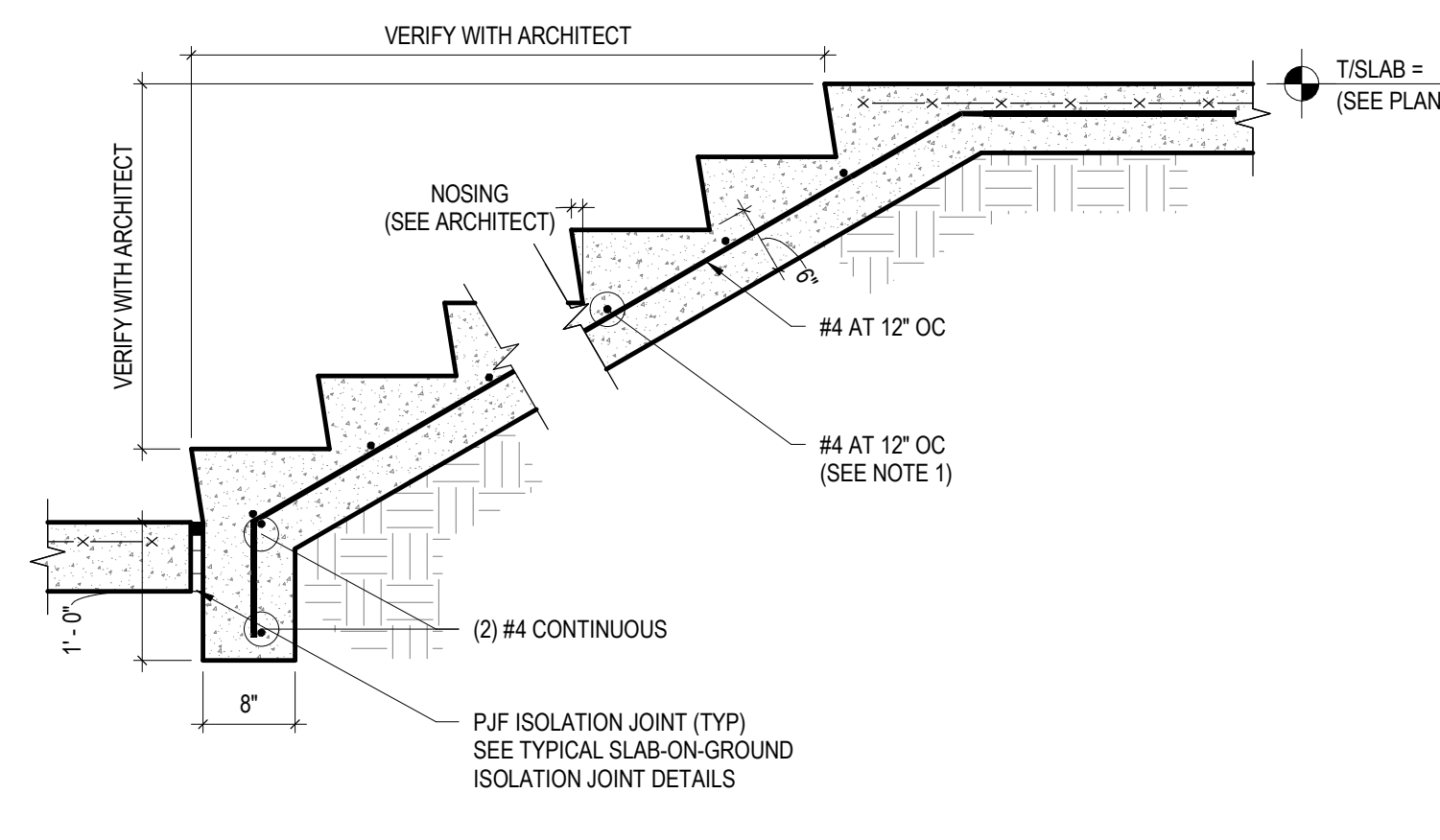
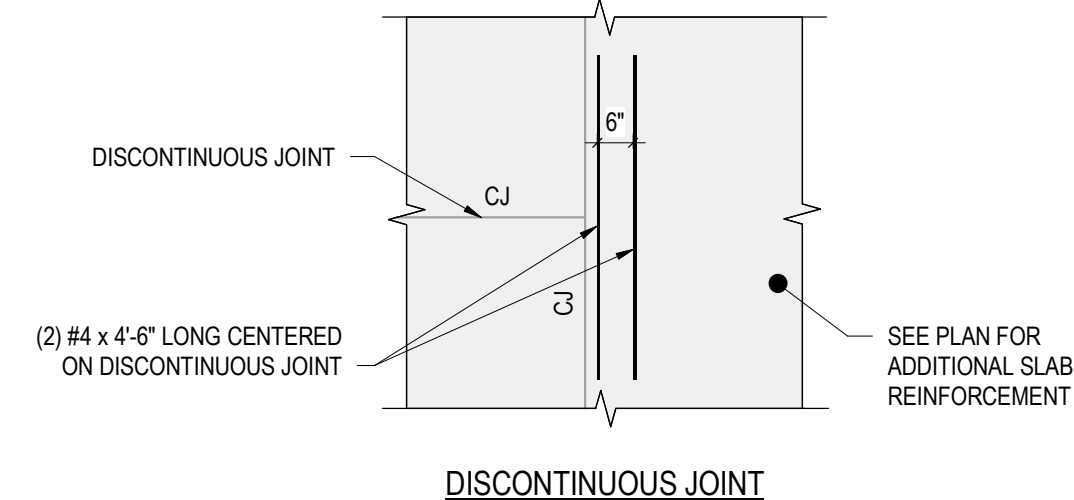
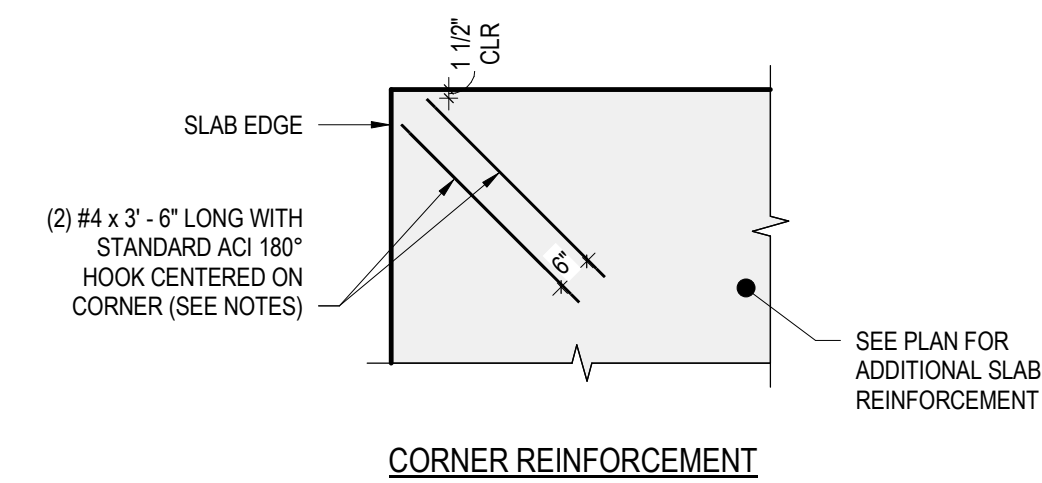
1 SLAB-ON-GROUND JOINT DETAILS  
3/4" = 1'-0"

- NOTES:
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SEALANT REQUIREMENTS.
  - SAW CUT DEPTH SHALL BE AS FOLLOWS:
    - FIBER REINFORCED SLABS = T/3
    - ALL OTHER SLABS USING CONVENTIONAL WET-CUT SAW = T/4
    - ALL OTHER SLABS USING EARLY ENTRY DRY-CUT SAW = T/5
  - SAW CUT JOINTS SHALL BE LOCATED AS FOLLOWS:
    - AT COLUMN LINES
    - BETWEEN COLUMN LINES AT A SPACING NOT TO EXCEED 36H (WHERE T DENOTES THE SLAB THICKNESS)
    - ADDITIONAL JOINTS AS REQUIRED TO MAINTAIN 1:1.5 MAXIMUM ASPECT RATIO
    - AT PRACTICAL, AT RETURN CORNERS, SLAB DEPRESSION CORNERS/EDGES, AND WALL ENDS/OPENINGS
  - ADDITIONAL SLAB REINFORCEMENT IS REQUIRED DEPENDENT ON JOINT LAYOUT PER TYPICAL DETAILS ON THIS SHEET.



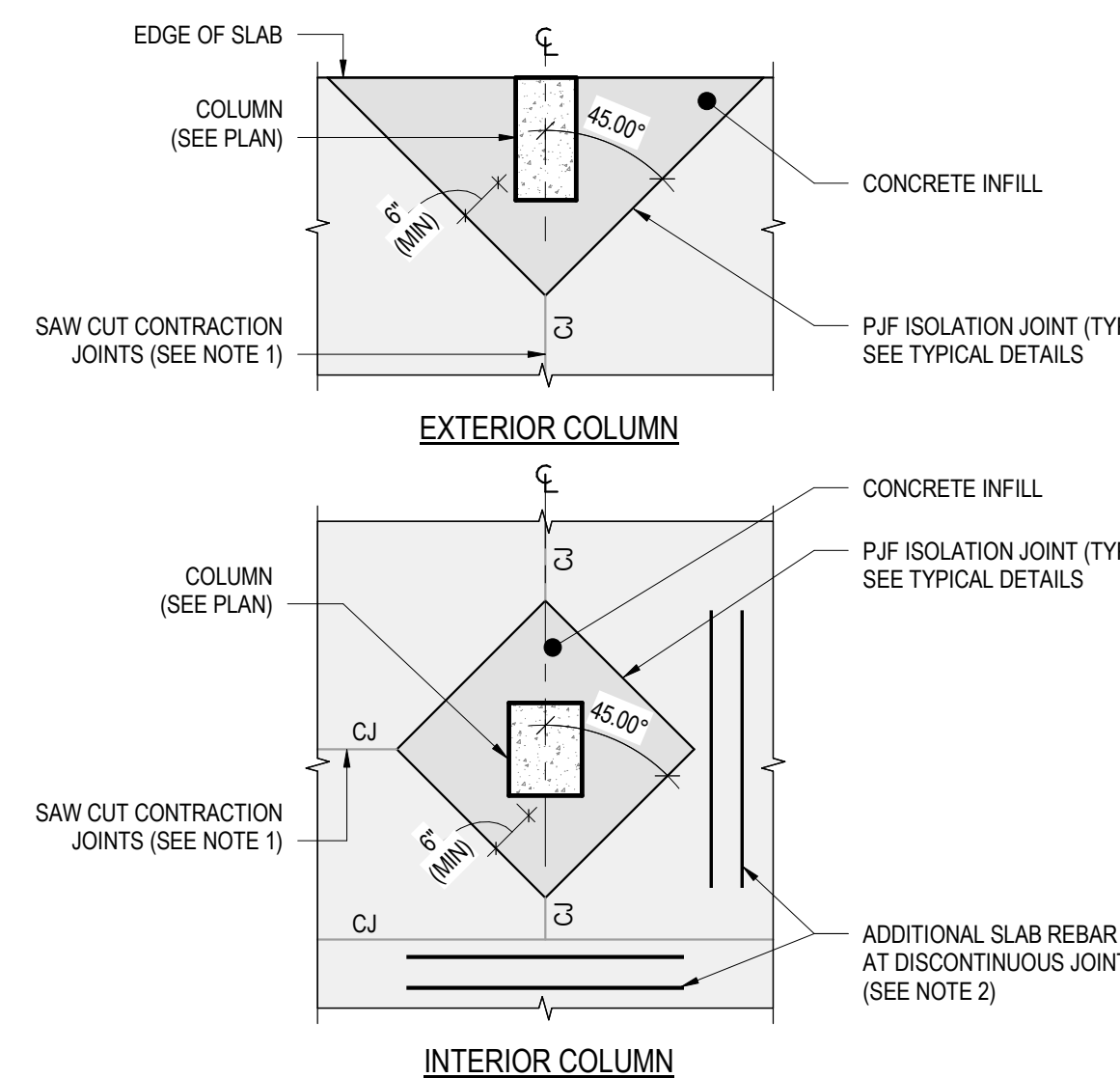
- NOTES:
- INSTALL ADDITIONAL REINFORCEMENT SHOWN 1-1/2" CLEAR FROM TOP-OF-SLAB.
  - NO ADDITIONAL REINFORCEMENT IS REQUIRED WHEN SAWCUT CONTRACTION JOINTS ALIGN WITH BOTH EDGES OF RETURN CORNER.

2 ADDITIONAL SLAB REINFORCEMENT AT CORNERS  
3/8" = 1'-0"



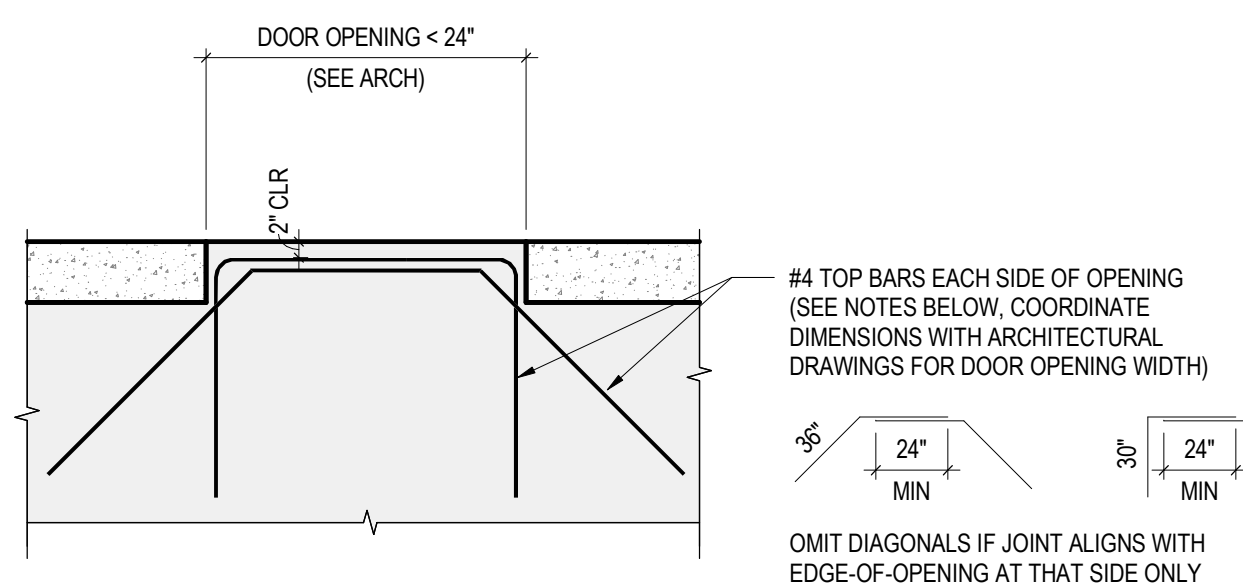
- NOTES:
- FOR STAIRS WIDER THAN 10'-0" INCREASE STEEL REINFORCEMENT TO #5 AT 6" OC.

3 CONCRETE STAIRS-ON-GROUND  
3/4" = 1'-0"

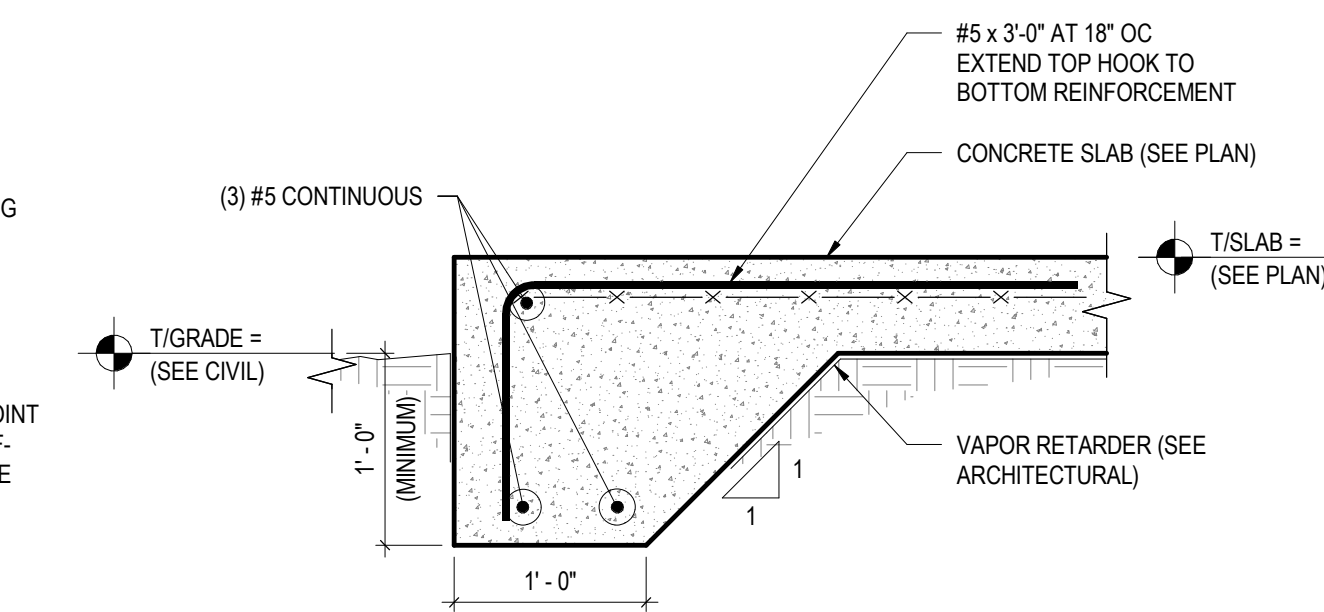
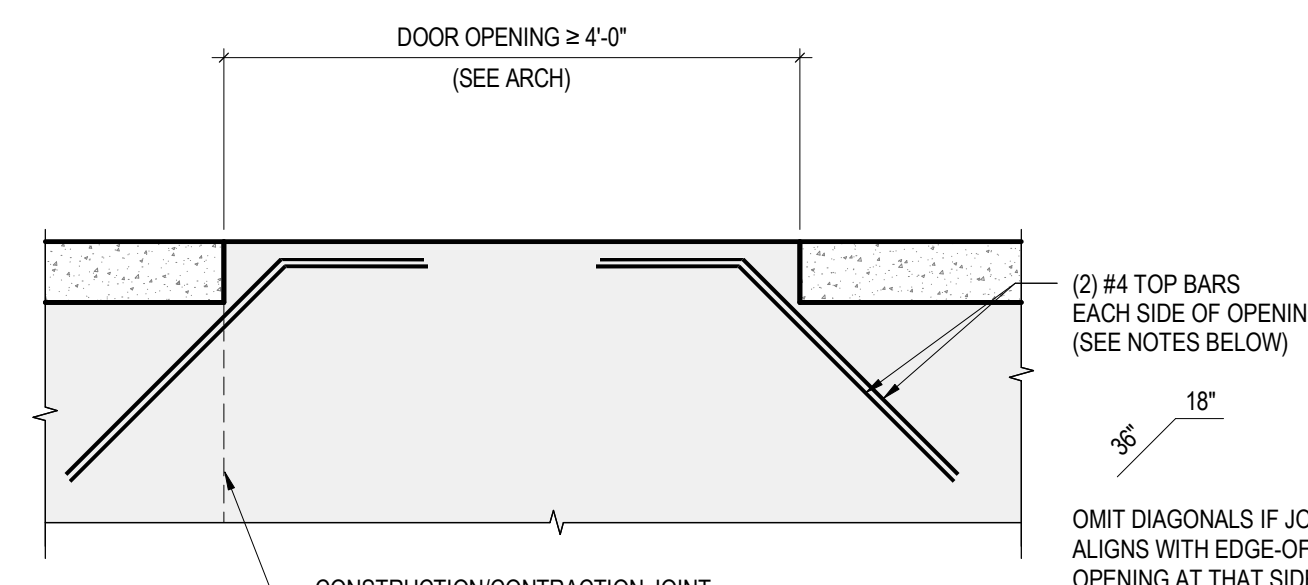


- NOTES:
- ALIGN SAW CUT CONTRACTION JOINTS WITH CORNERS OF DIAMOND BOXOUTS AT COLUMNS. SEE TYPICAL SLAB-ON-GROUND DETAILS FOR JOINT SPACING REQUIREMENTS BETWEEN COLUMNS.
  - WHEN CONTRACTION JOINTS DO NOT ALIGN WITH CORNERS OF DIAMOND BOXOUT, PROVIDE ADDITIONAL SLAB REINFORCEMENT SIMILAR TO DISCONTINUOUS JOINTS.
  - CONCRETE INFILL BETWEEN COLUMN AND ISOLATION JOINT SHALL BE POURED AFTER ALL THE SLABS SUPPORTED BY THE COLUMN HAVE BEEN POURED.
  - AS A GC OPTION, A PNEUMATIC LAYOUT OR P/JF DIRECT APPLIED TO FACE-OF-COLUMN OPTION MAY BE ACCEPTABLE IF THE SLAB-ON-GROUND IS POURED AFTER THE COLUMNS ARE INSTALLED. NOTIFY DESIGN TEAM OF DESIRE TO USE ALTERNATE DETAIL FOR FURTHER CONSIDERATION.
  - DETAIL SCHEMATICALLY SHOWS CONCRETE COLUMNS/PIERS. SIMILAR BOXOUTS ARE REQUIRED AT STEEL COLUMNS, WHERE THE DIMENSION OF THE DIAMOND BOXOUT SHALL BE COORDINATED WITH THE REQUIRED LAYBACK FOR SOIL STABILITY WHILE ALLOWING FOR BASE PLATE INSTALLATION ON ANCHOR RODS WITH ADEQUATE CLEARANCE FOR GROUT PLACEMENT BELOW THE BASE PLATE.

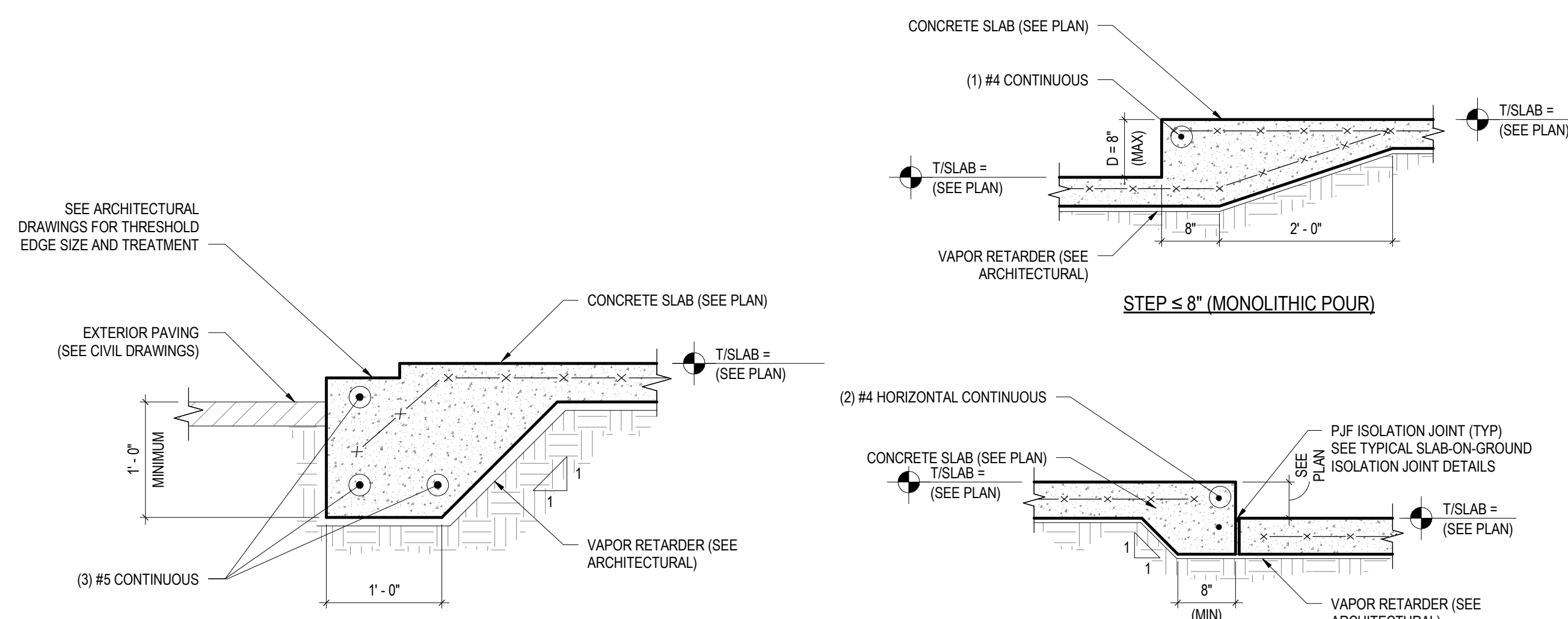
4 SLAB-ON-GROUND ISOLATION/CONTRACTION JOINT  
1/2" = 1'-0"



- NOTES:
- INSTALL REINFORCEMENT SHOWN LOCATED AT A DEPTH 1-1/2" CLEAR FROM TOP-OF-SLAB.
  - REINFORCEMENT SHALL NOT CROSS CONSTRUCTION JOINT OR SAWCUT CONTRACTOR JOINTS THAT ALLOW FOR MOVEMENT. I.E., DIAGONAL CORNER REINFORCEMENT SHALL BE OMITTED FROM ONE SIDE WHEN A PERPENDICULAR JOINT ALIGNS WITH EDGE-OF-OPENING AT THAT SIDE.



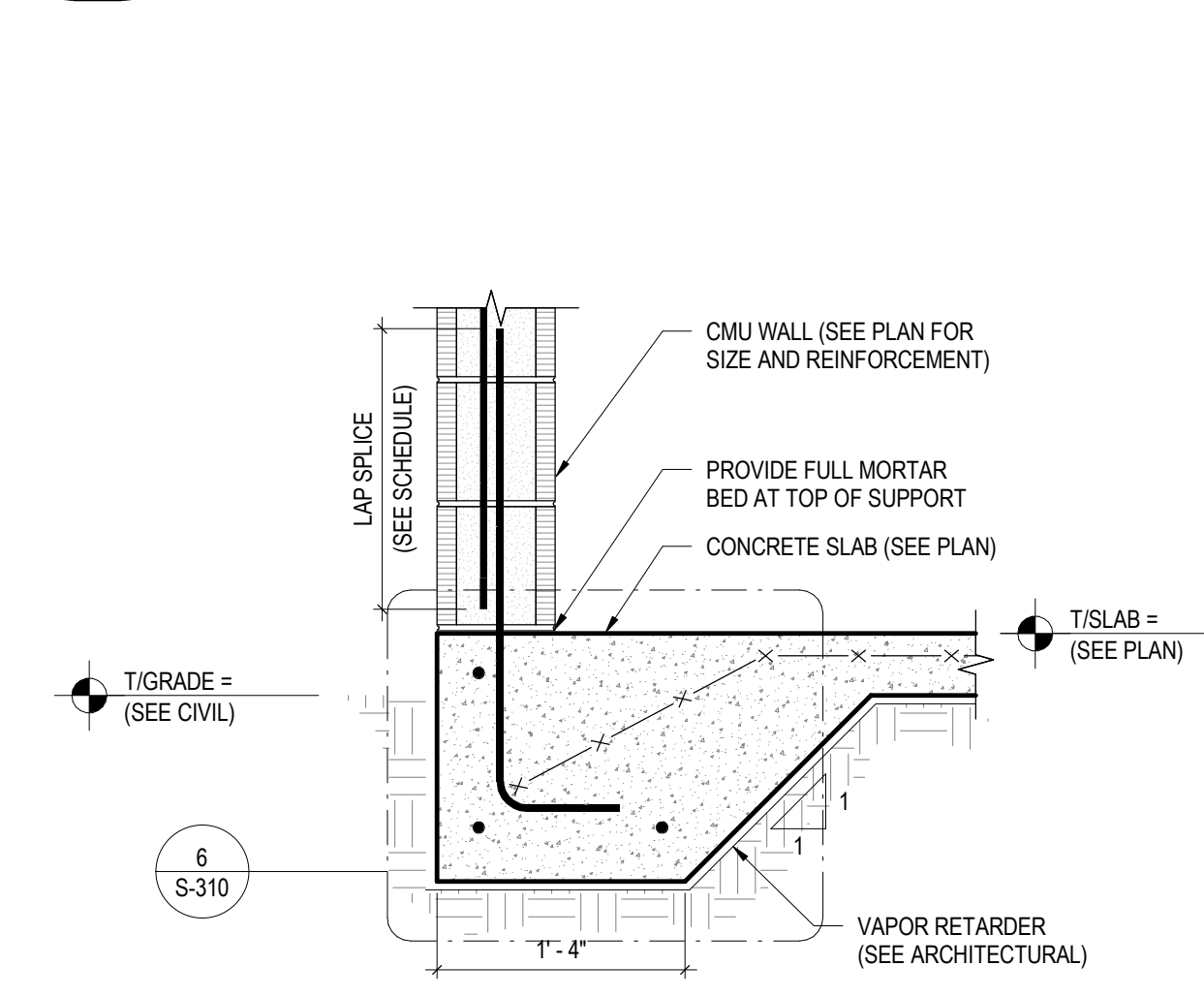
6 THICKENED EDGE-OF-SLAB  
1" = 1'-0"



- NOTES:
- COORDINATE ALL SLAB STEPS WITH ARCHITECT

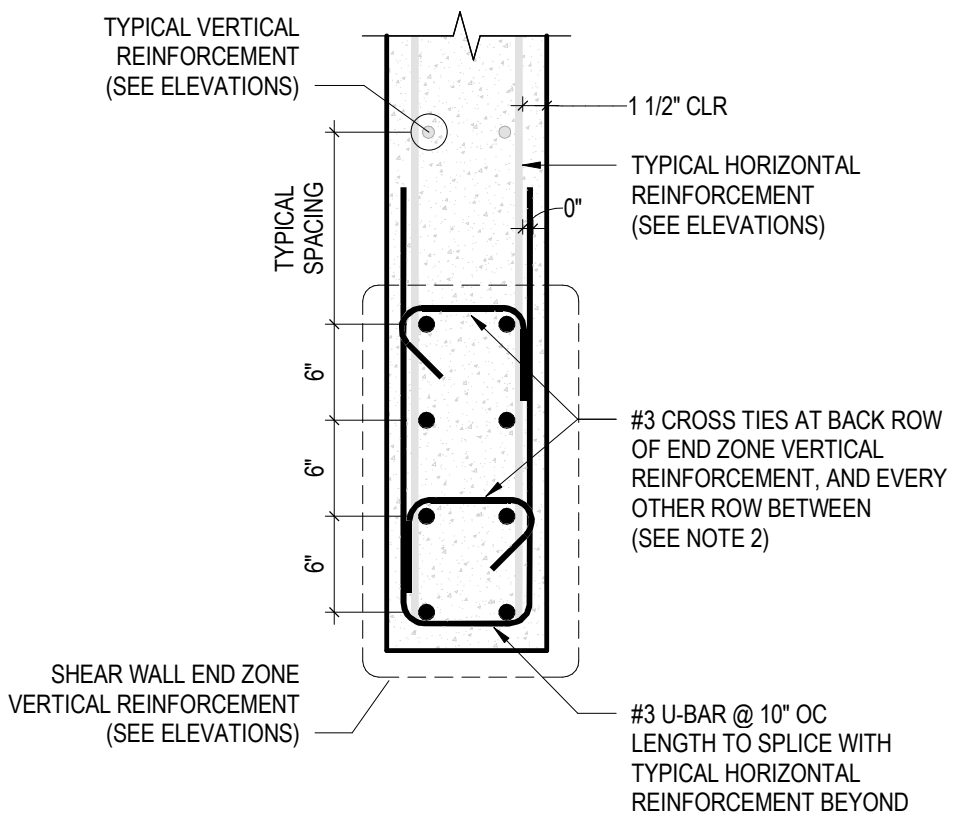
7 THICKENED EDGE-OF-SLAB AT OPENING  
1" = 1'-0"

8 SLAB STEP DETAILS  
3/4" = 1'-0"

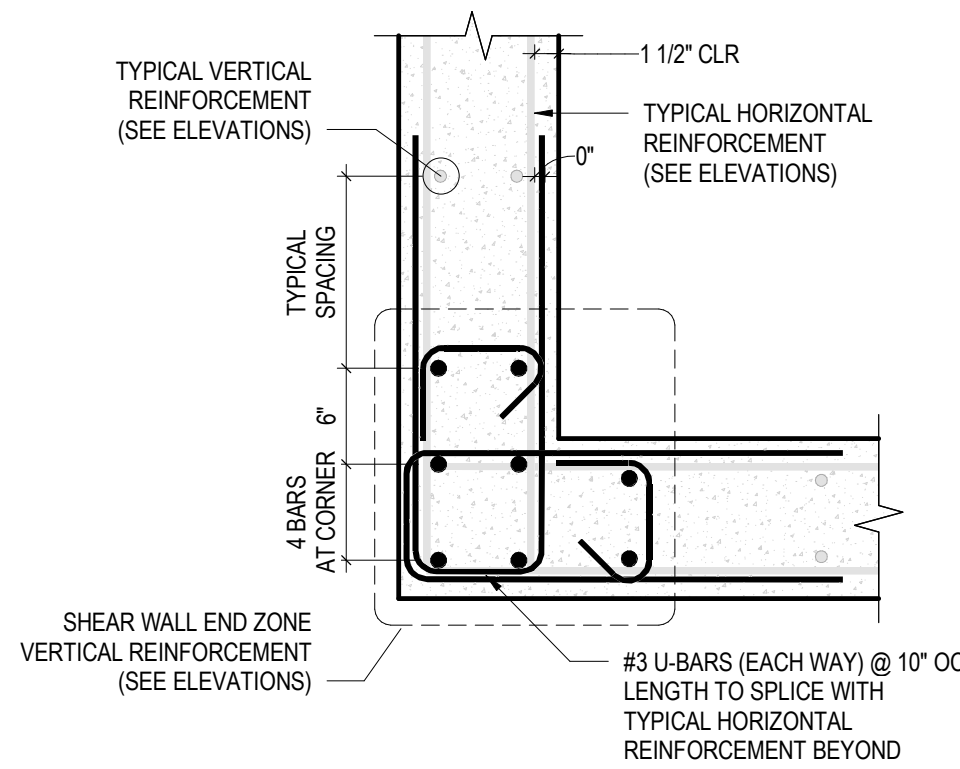


9 CMU WALL AT THICKENED SLAB EDGE  
1" = 1'-0"

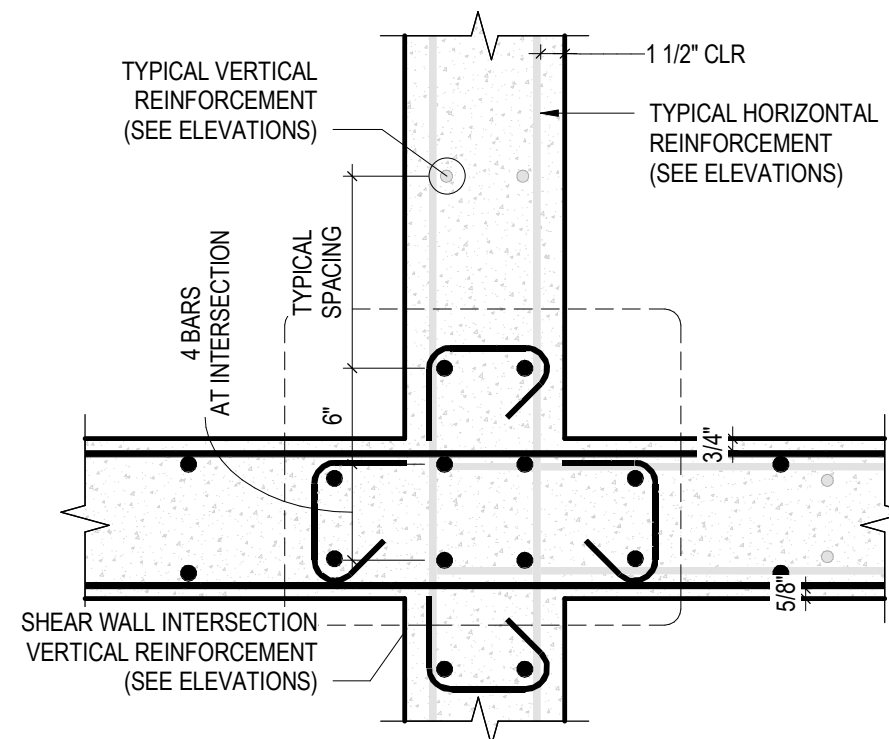




ENDS OF WALLS & AT OPENINGS  
(E-TYPE MARK ON ELEVATIONS)



CORNER CONDITION  
(L-TYPE MARK ON ELEVATIONS)



INTERSECTION CONDITION  
(T-TYPE MARK ON ELEVATIONS)

NOTES:

- BAR LAPS SHOWN OFFSET FOR CLARITY.  
- HORIZONTAL REINFORCEMENT SHALL BE LAPPED WITH BARS STACKED VERTICALLY.  
- VERTICAL REINFORCEMENT SHALL BE LAPPED WITH BARS ALIGNED PARALLEL TO FACE-OF-WALL (OFFSET BENDS SHALL NOT BE PERMITTED).  
- CROSS TIE BAR ORIENTATION SHALL BE ALTERNATED AT EACH TIE IN BOTH THE HORIZONTAL AND VERTICAL DIRECTION.
- BAR COUNT INDICATED IN SHEAR WALL VERTICAL REINFORCEMENT SCHEDULE IS THE TOTAL QUANTITY OF BARS REQUIRED, DISTRIBUTED HALF EACH FACE AND THROUGHOUT CORNER/INTERSECTION CONDITIONS AS INDICATED IN DIAGRAMS BELOW.

#E04

#E06

#E08

#L04

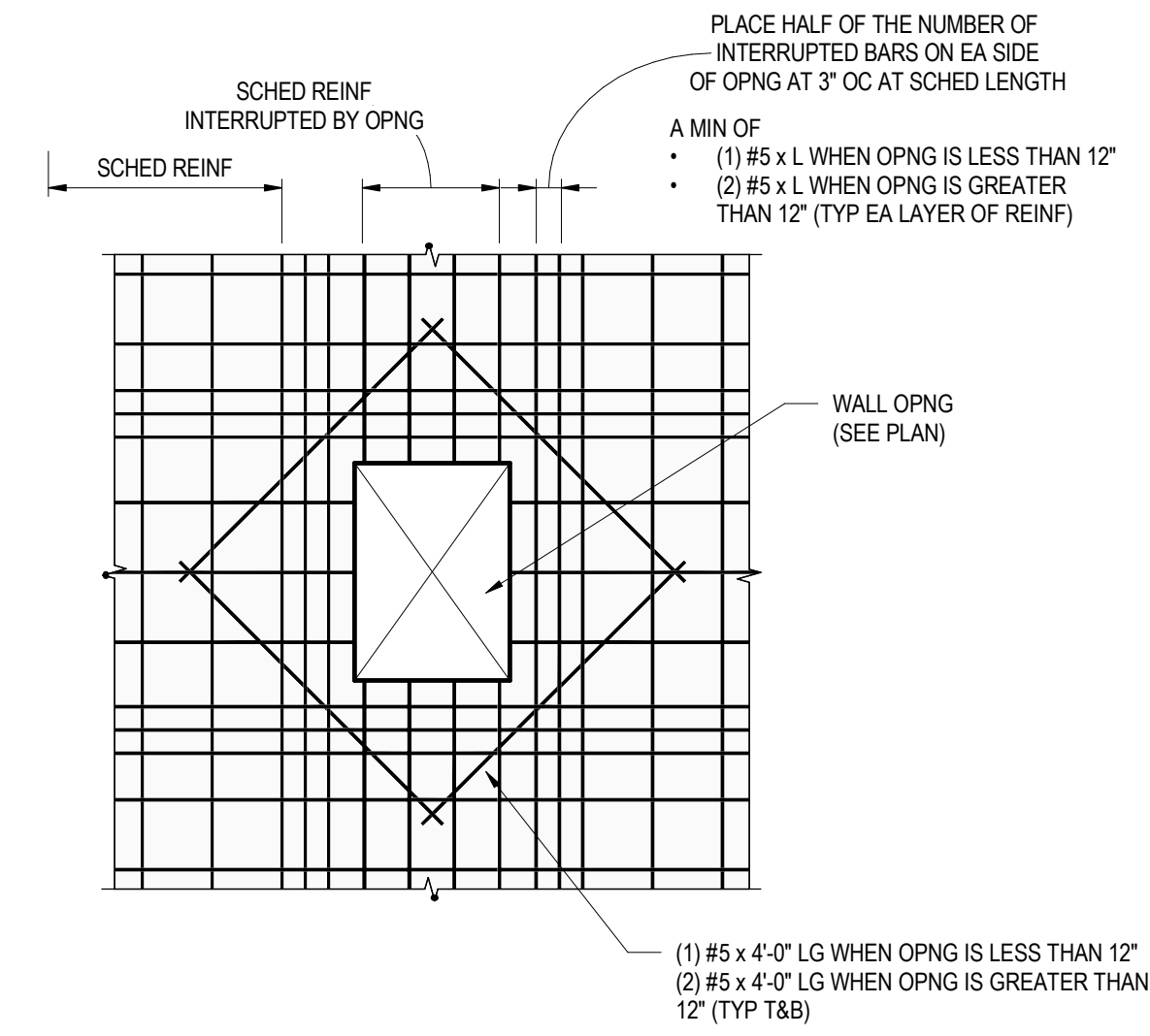
#L08

#L12

#T04

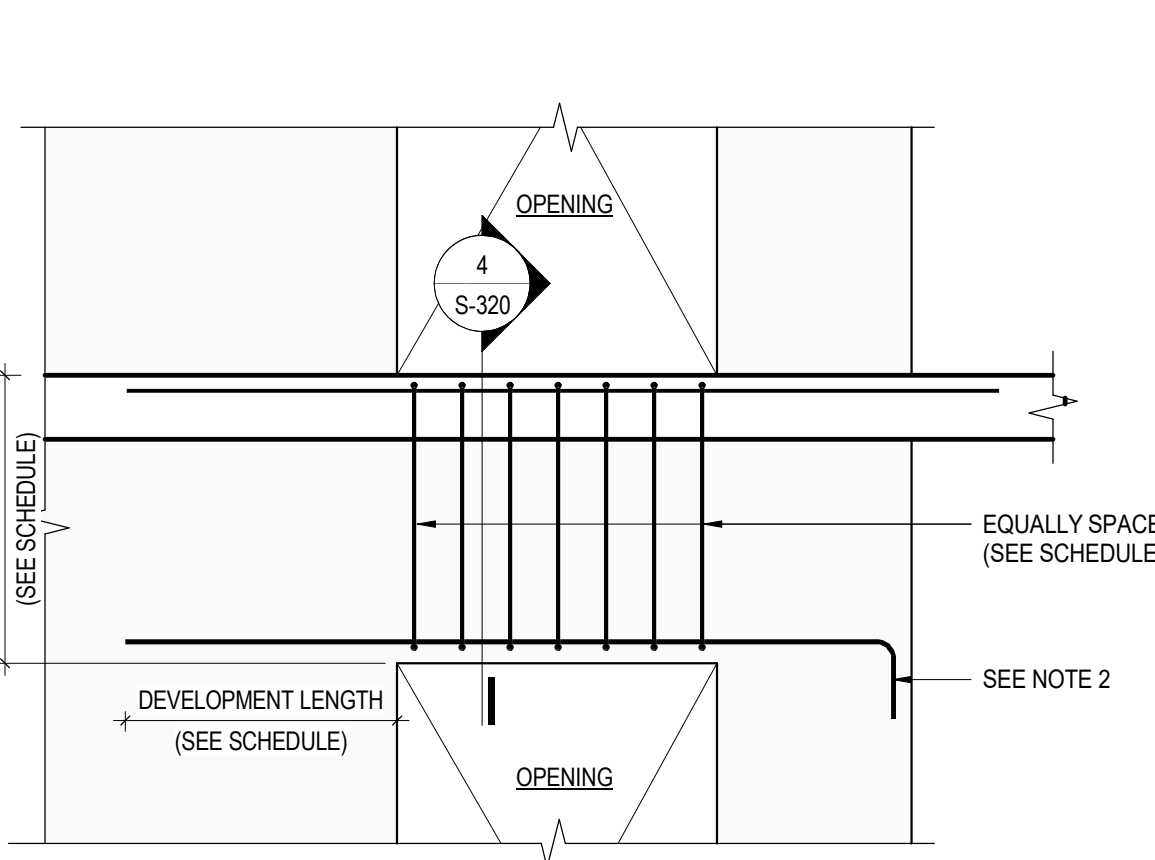
#T06

#T10



2  
S-320  
TYPICAL WALL OPENING  
1/2\"/>

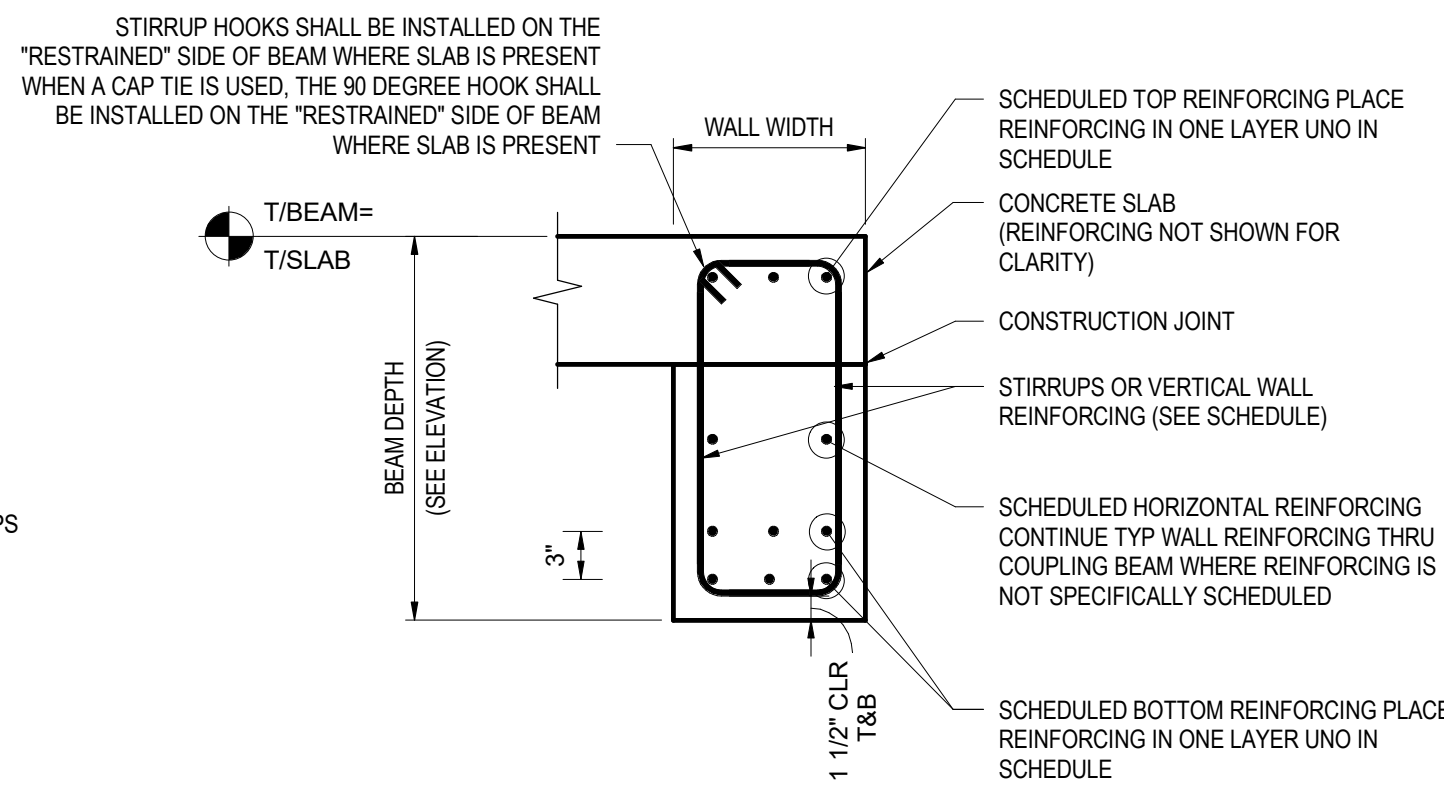
1  
S-320  
SHEAR WALL END ZONE AND CORNER/INTERSECTION REBAR LAYOUTS  
1\"/>



NOTES:

- 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 GEOMETRY ALLOWS.

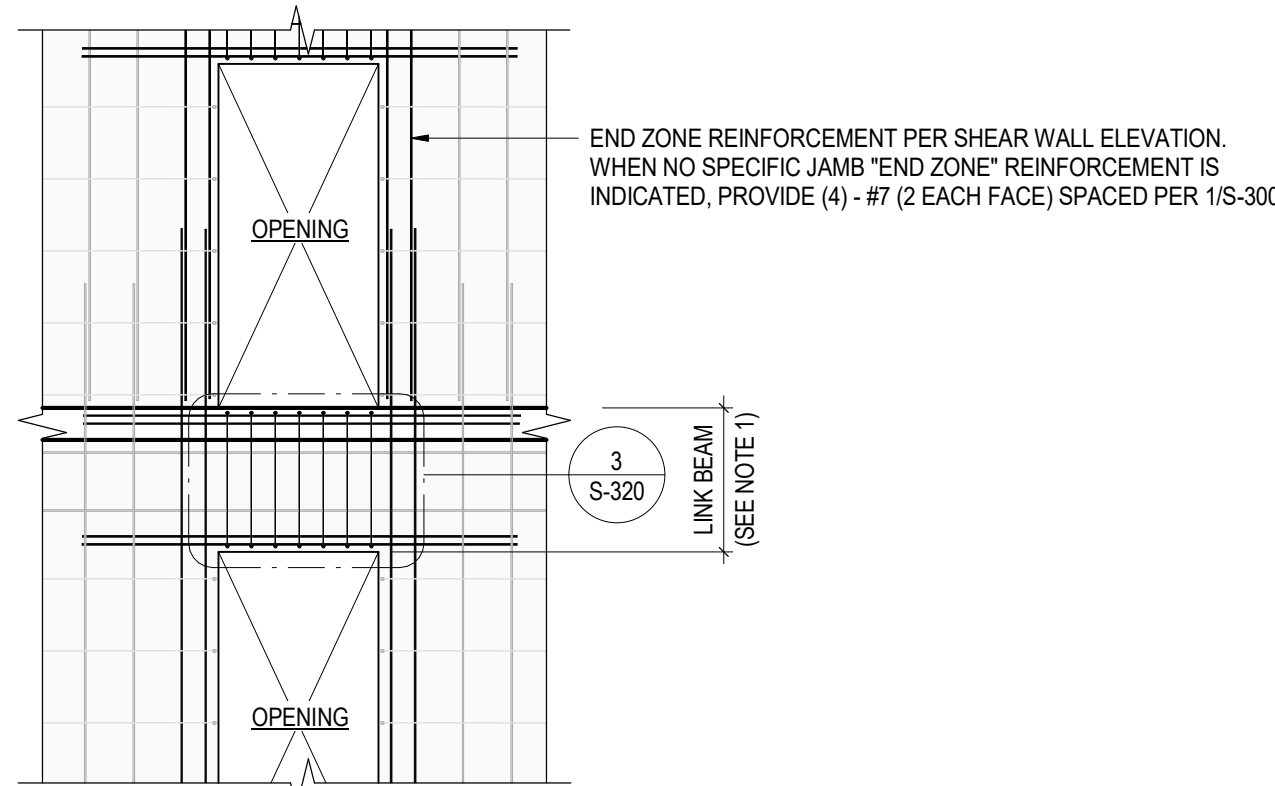
3  
S-320  
SHEAR WALL LINK BEAM ELEVATION  
1/2\"/>



NOTES:

- CLOSED STIRRUP MAY BE EITHER ONE CONTINUOUS BAR WITH A 135 DEGREE 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).
- CONCRETE STRENGTH OF THE COUPLING BEAM SHALL MATCH THE SPECIFIED STRENGTH OF THE WALL BELOW, INCLUDING THE SLAB DEPTH.

4  
S-320  
LINK BEAM - SECTION  
1\"/>

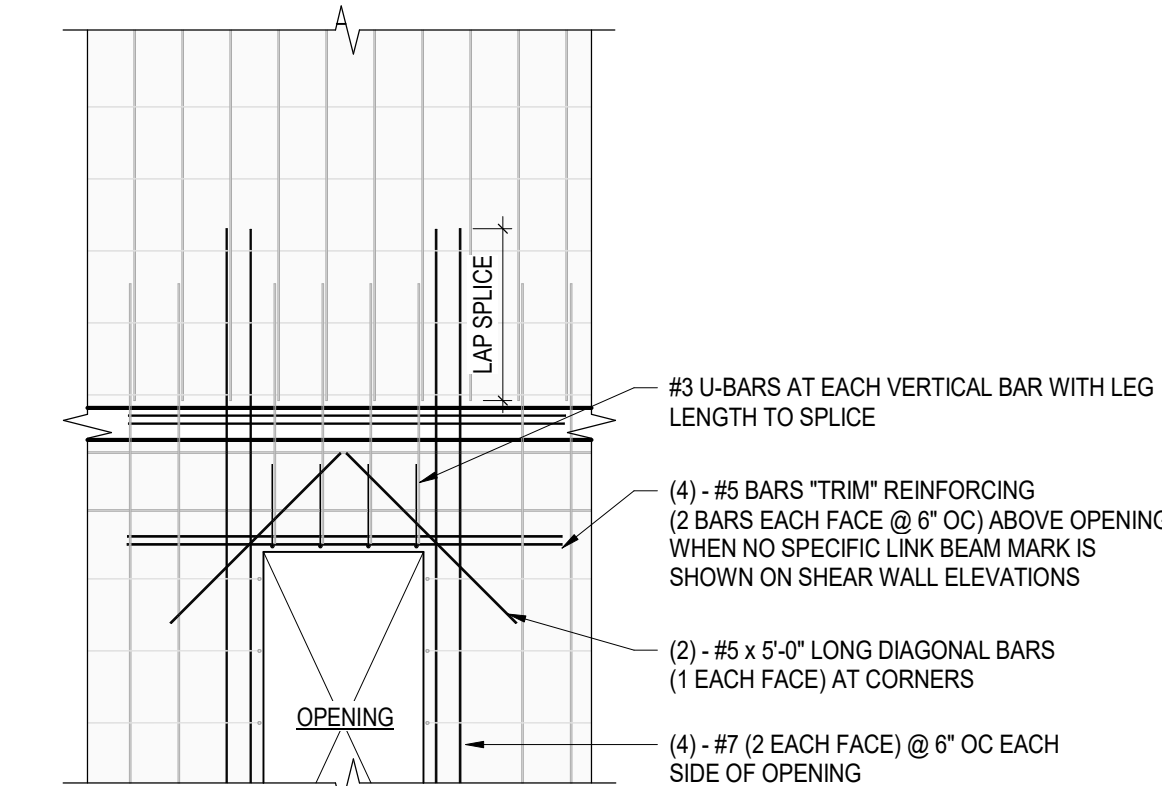


TYPICAL STACKED OPENINGS

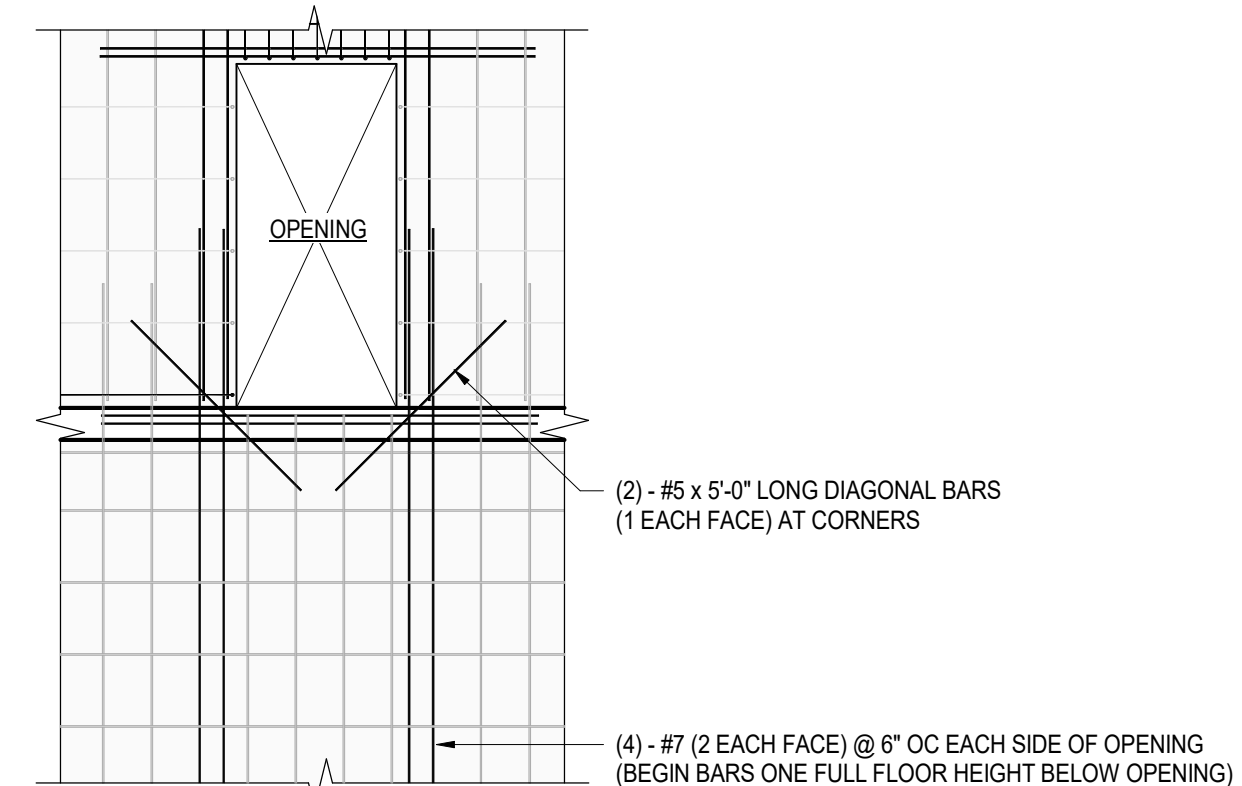
NOTES:

- 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.

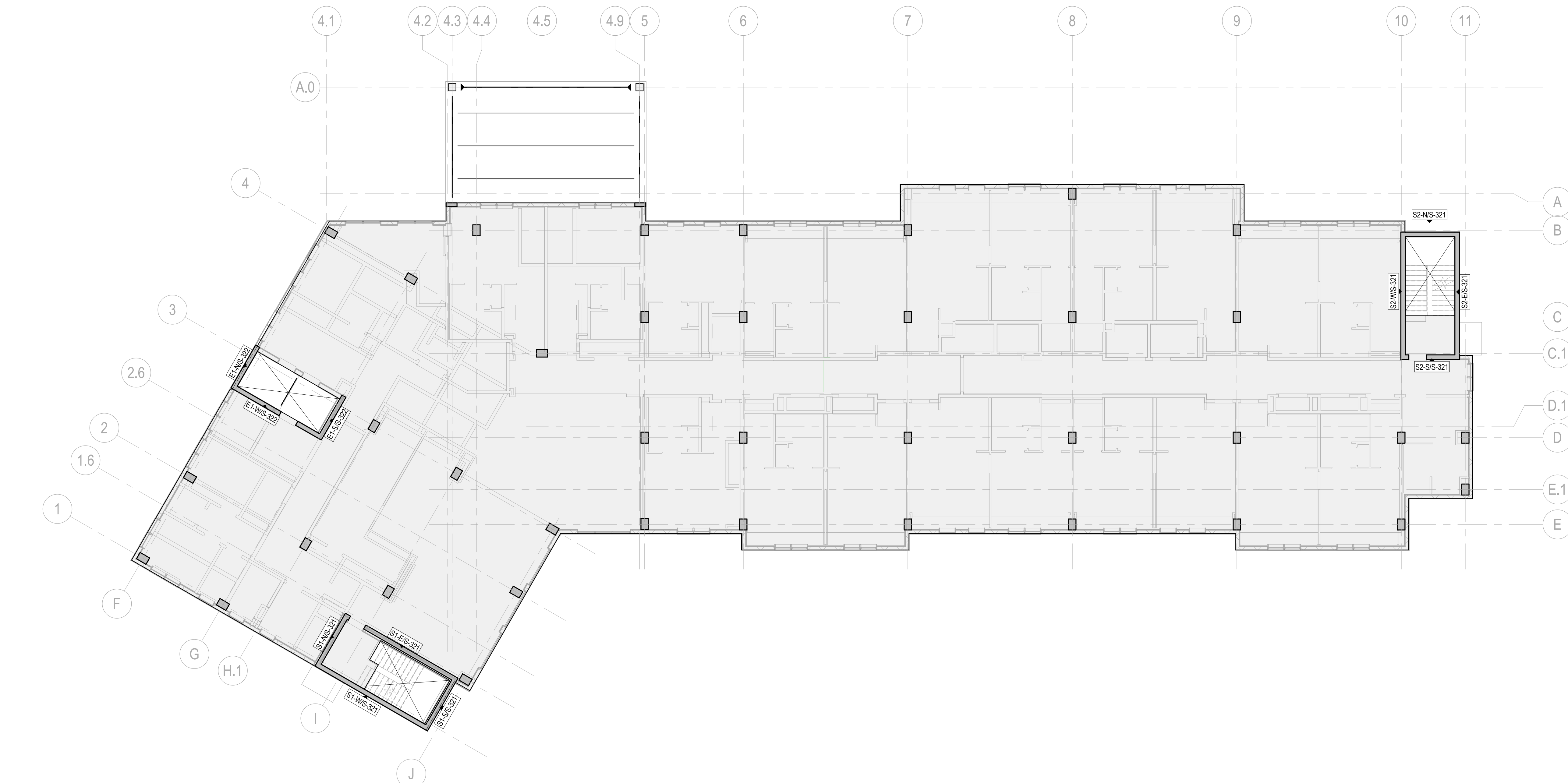
5  
S-320  
BAR ARRANGEMENT AT OPENINGS (UNO) - SECTION  
1/4\"/>



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

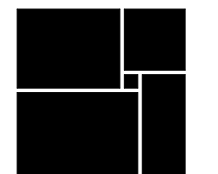


DISCONTINUOUS OPENING ALIGNMENT - NO OPENING BELOW  
(UNLESS NOTED OTHERWISE ON SHEAR WALL ELEVATIONS)



SW  
S-320  
SHEAR WALL KEY PLAN  
3/32\"/>

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Project No.: 2021009  
Date: 08/22/2025

TYPICAL  
CONCRETE  
SHEAR WALLS  
DETAILS

S-320

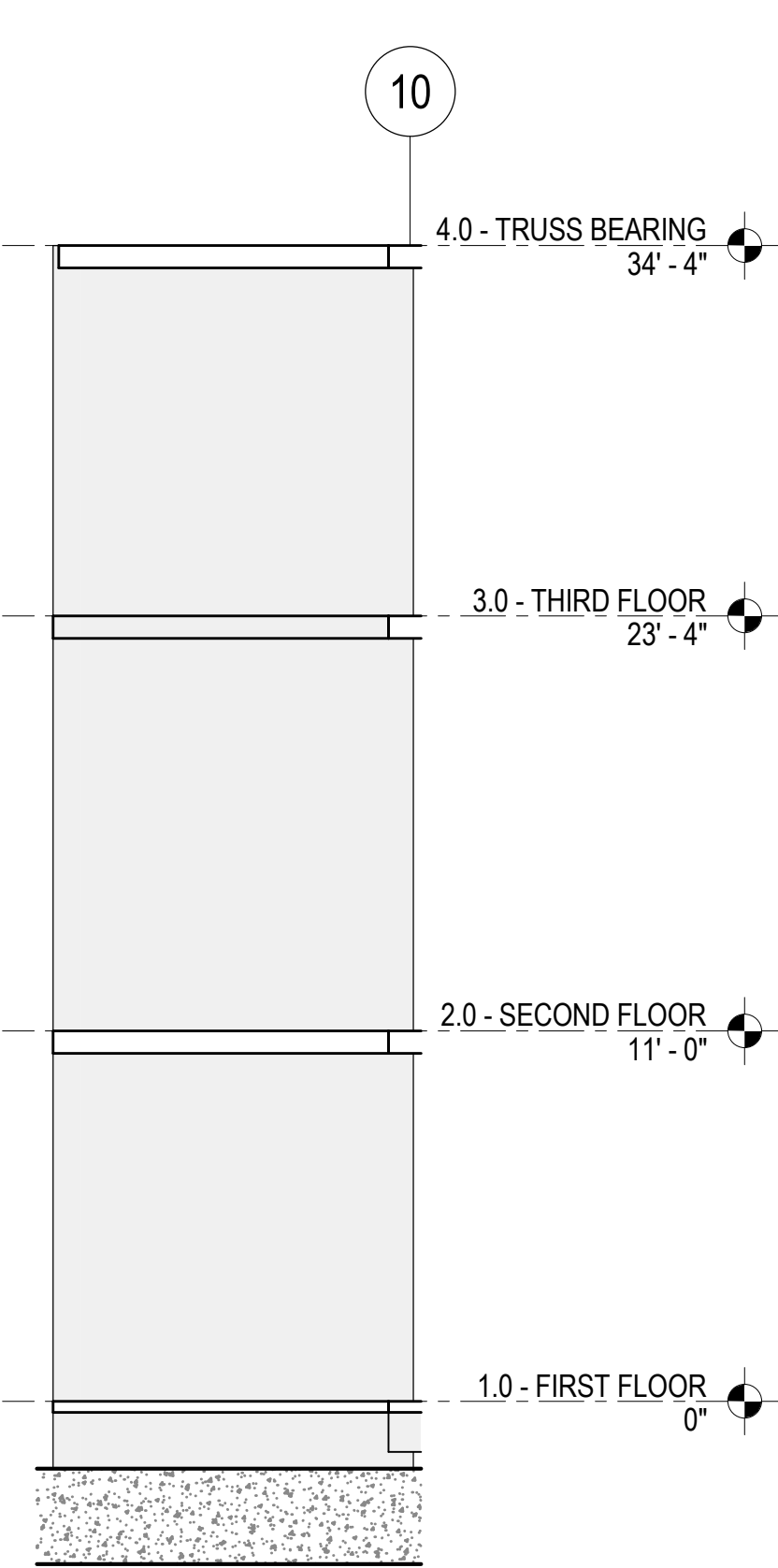
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TO THE BEST OF THE ENGINEER'S  
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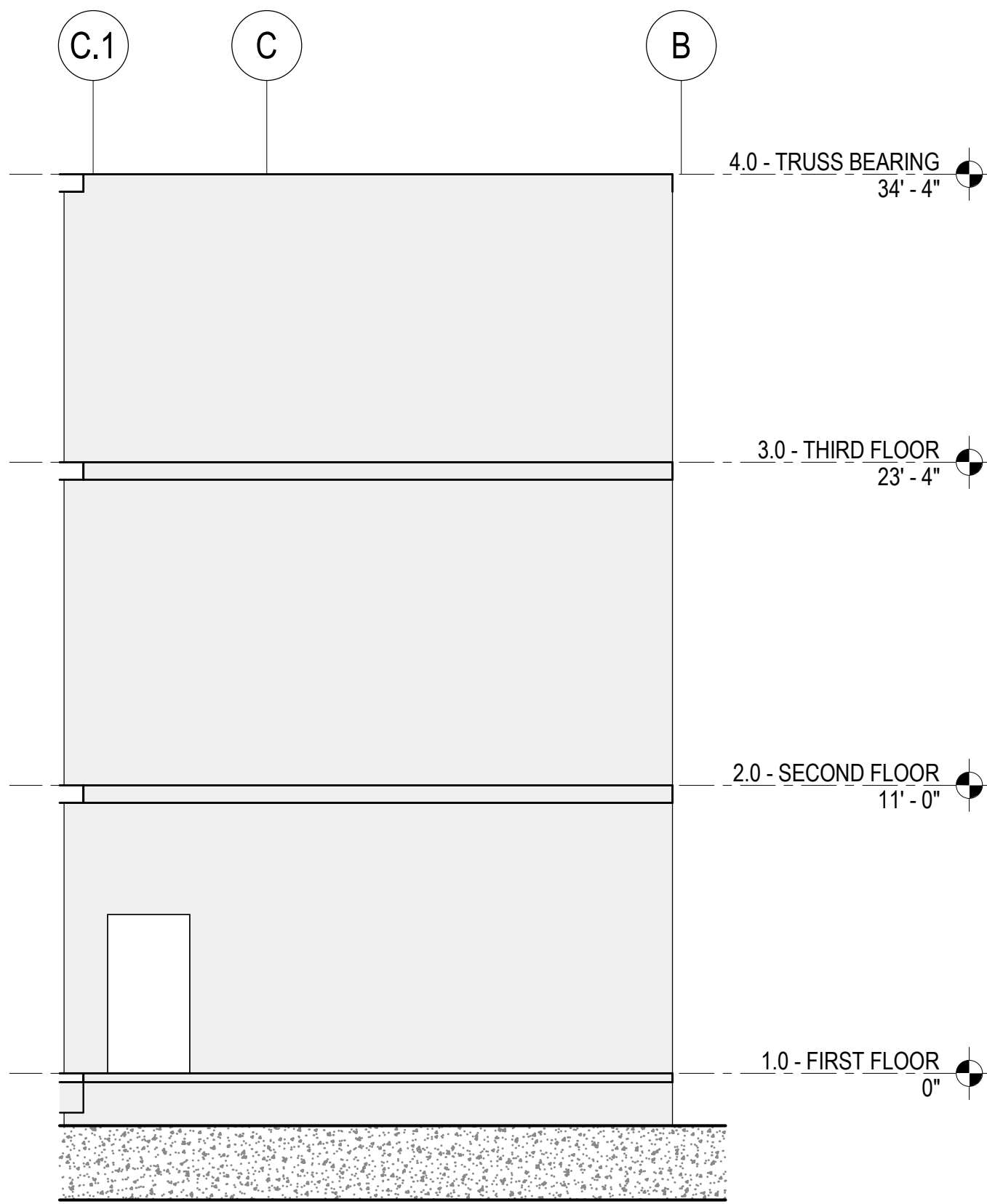




S2-N  
S-321

STAIR 2 NORTH WALL ELEVATION

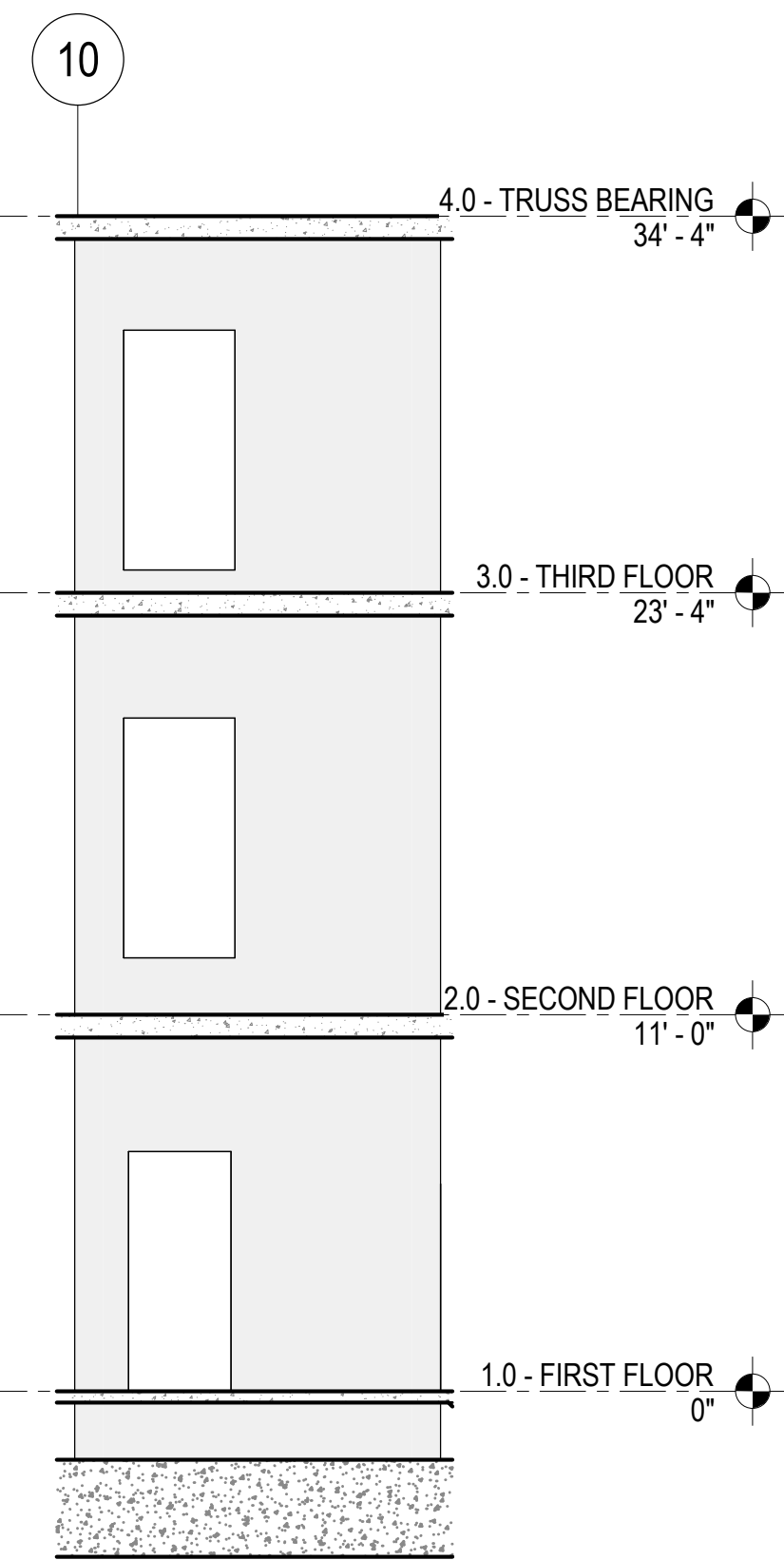
3/16" = 1'-0"



S2-E  
S-321

STAIR 2 EAST WALL ELEVATION

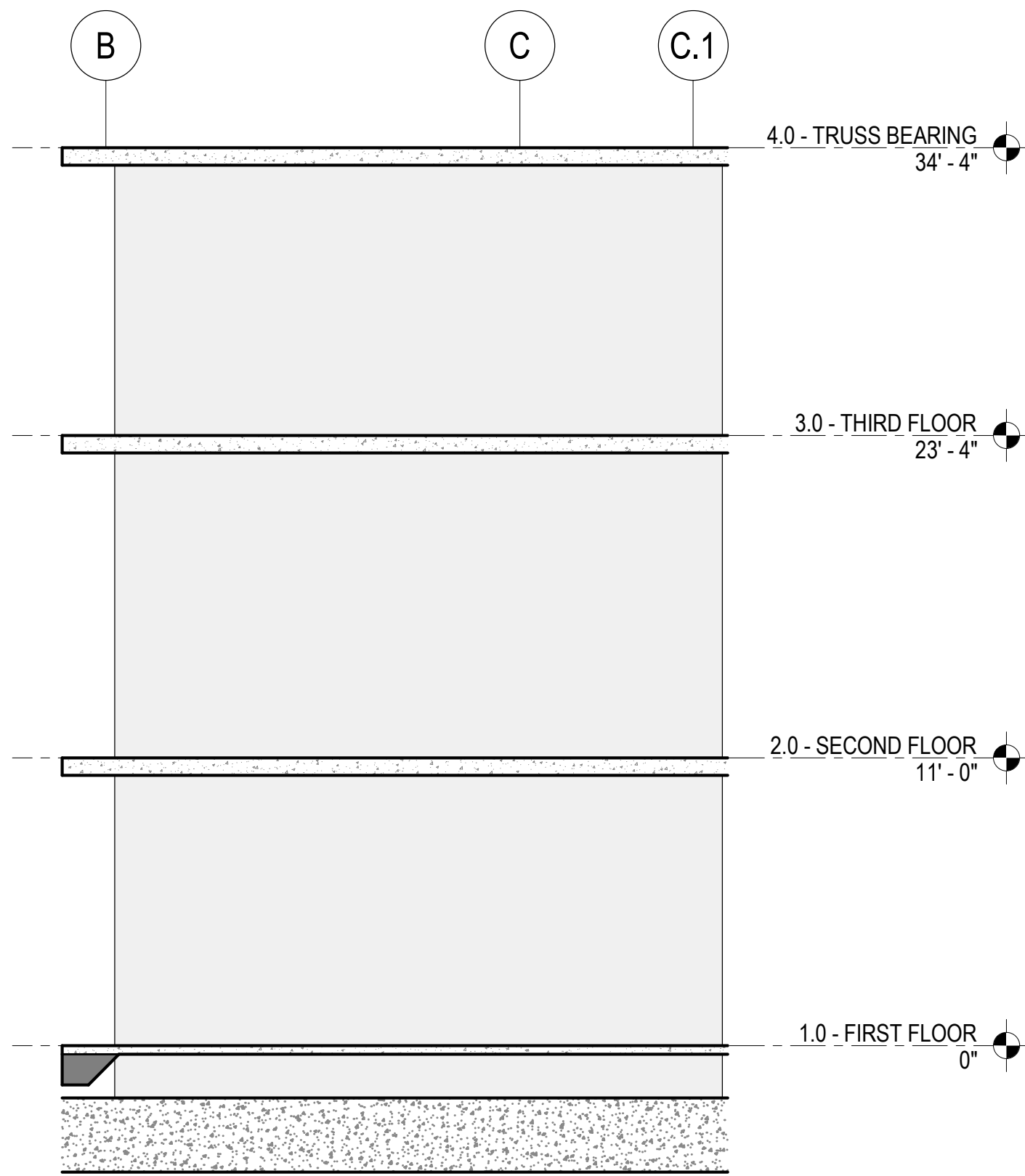
3/16" = 1'-0"



S2-S  
S-321

STAIR 2 SOUTH WALL ELEVATION

3/16" = 1'-0"



S2-W  
S-321

STAIR 2 WEST WALL ELEVATION

3/16" = 1'-0"

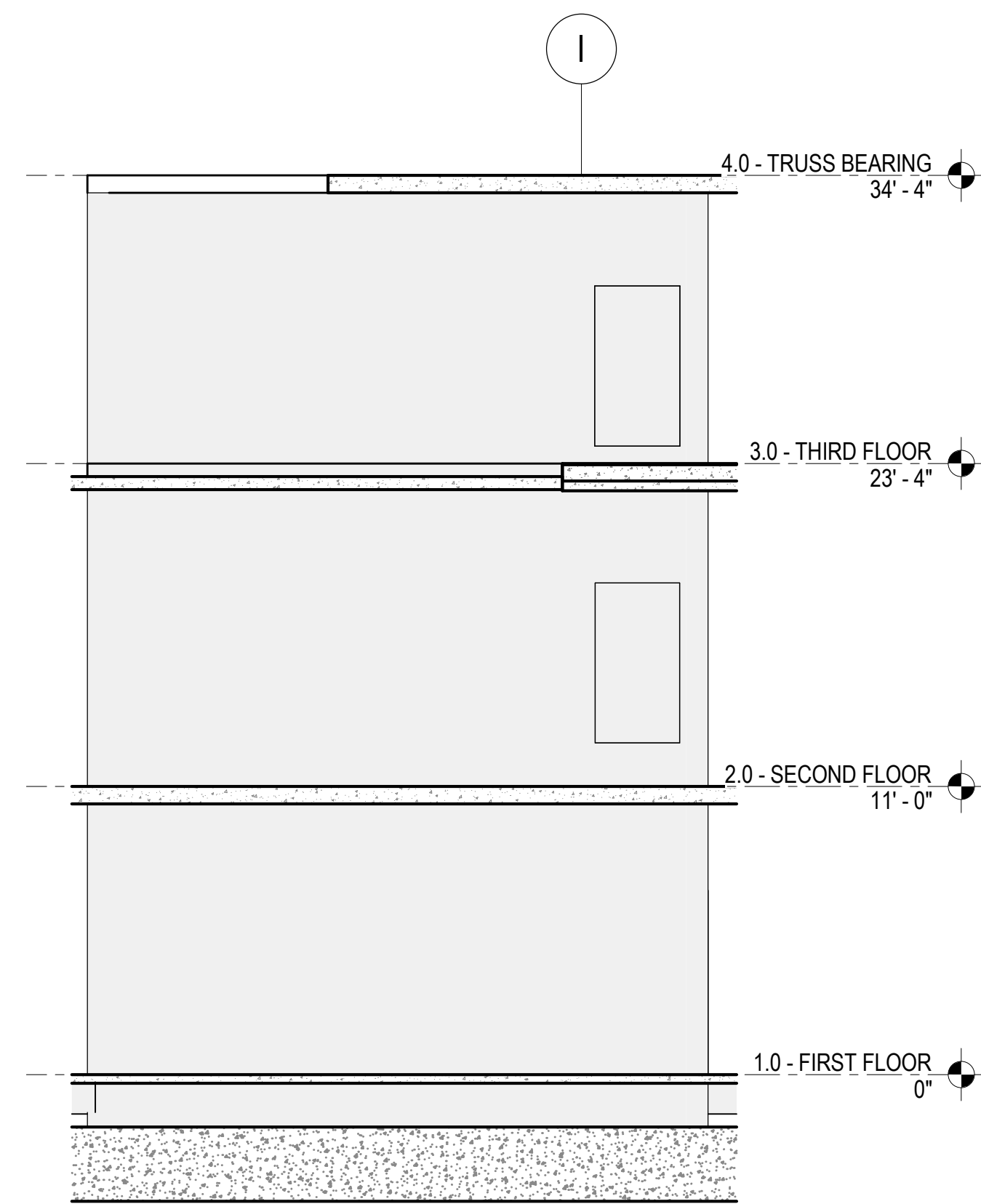
- SHEAR WALL ELEVATION NOTES:
1. DENOTES 10" WALL THICKNESS  
DENOTES 12" WALL THICKNESS
  2. SEE ARCHITECTURAL DRAWING FOR ROUGH OPENING DIMENSIONS
  3. SHEAR WALL REINFORCEMENT TAGS:
    - #VV# DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
    - #EH# DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
    - #HH# DENOTES TYPICAL HORIZONTAL REINFORCEMENT (SH12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET))
    - CB#X DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)
  4. WHERE NOT SPECICALLU NOTED WITH #EH# OR CB#X REINFORCING, PROVIDE (4) #7 BARS AT ALL EDGES OF OPENINGS AND ENDS OF WALLS WITH (2) BARS EACH FACE SPACED AT 6" OC. BARS SHALL BE FULLY DEVELOPED FROM THE EDGE OF THE OPENING AND SHALL BE HOOKED AT WALL ENDS WHERE REQUIRED.
  5. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.
  6. SEE DETAILS ON S-330.
  7. GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEA, OF DISCREPANCIES.

TYPICAL VERTICAL REINFORCING			
MARK	BAR SIZE	BAR SPACING	COMMENTS

VERTICAL CORNER REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

VERTICAL END REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

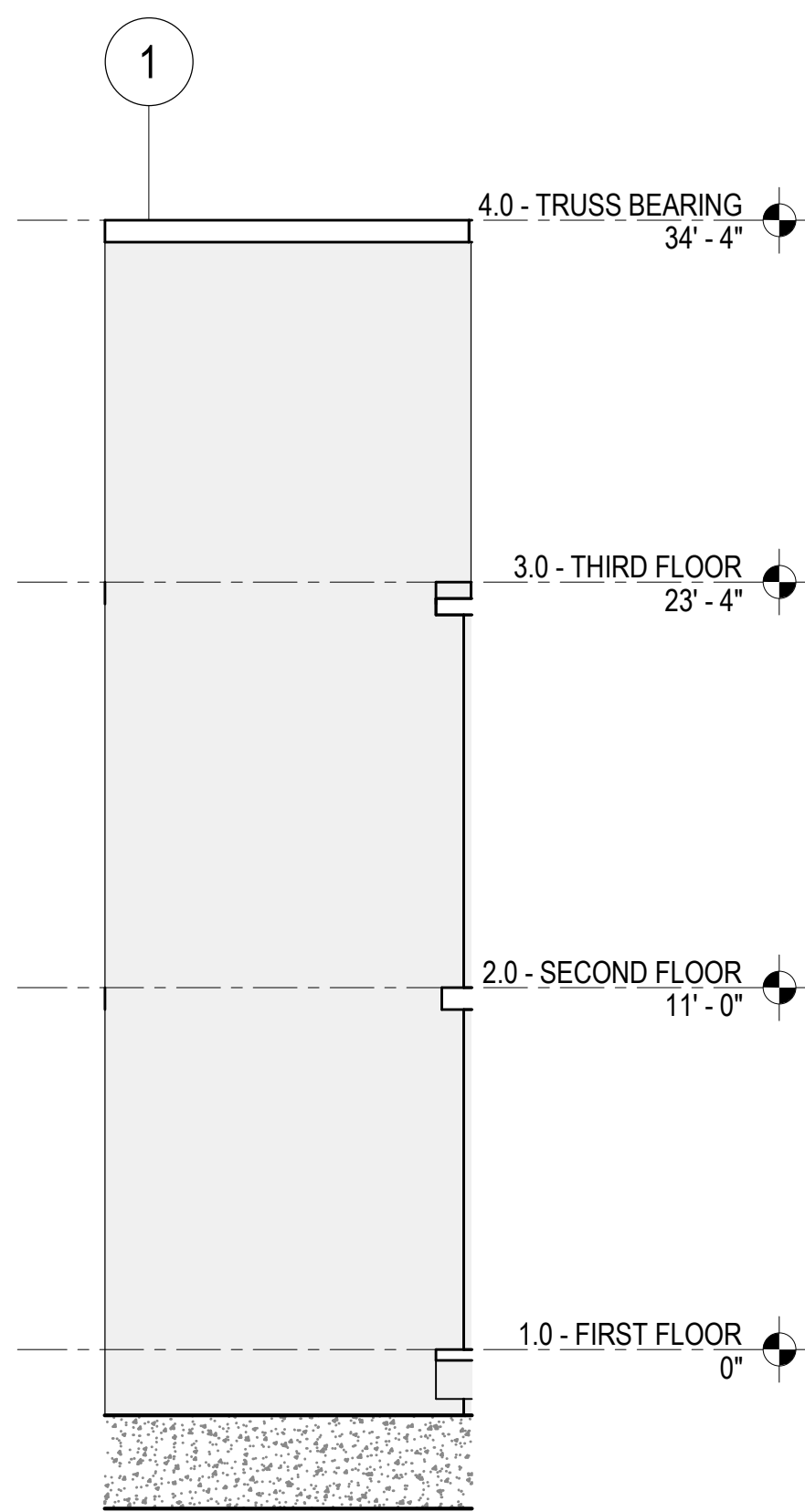
10" CONCRETE SHEAR WALLS  
FOR DD PRICING PURPOSES, ASSUME THE  
FOLLOWING MATERIAL QUANTITIES:  
• 3.5 PSF CONVENTIONAL REBAR



S1-E  
S-321

STAIR 1 EAST WALL ELEVATION

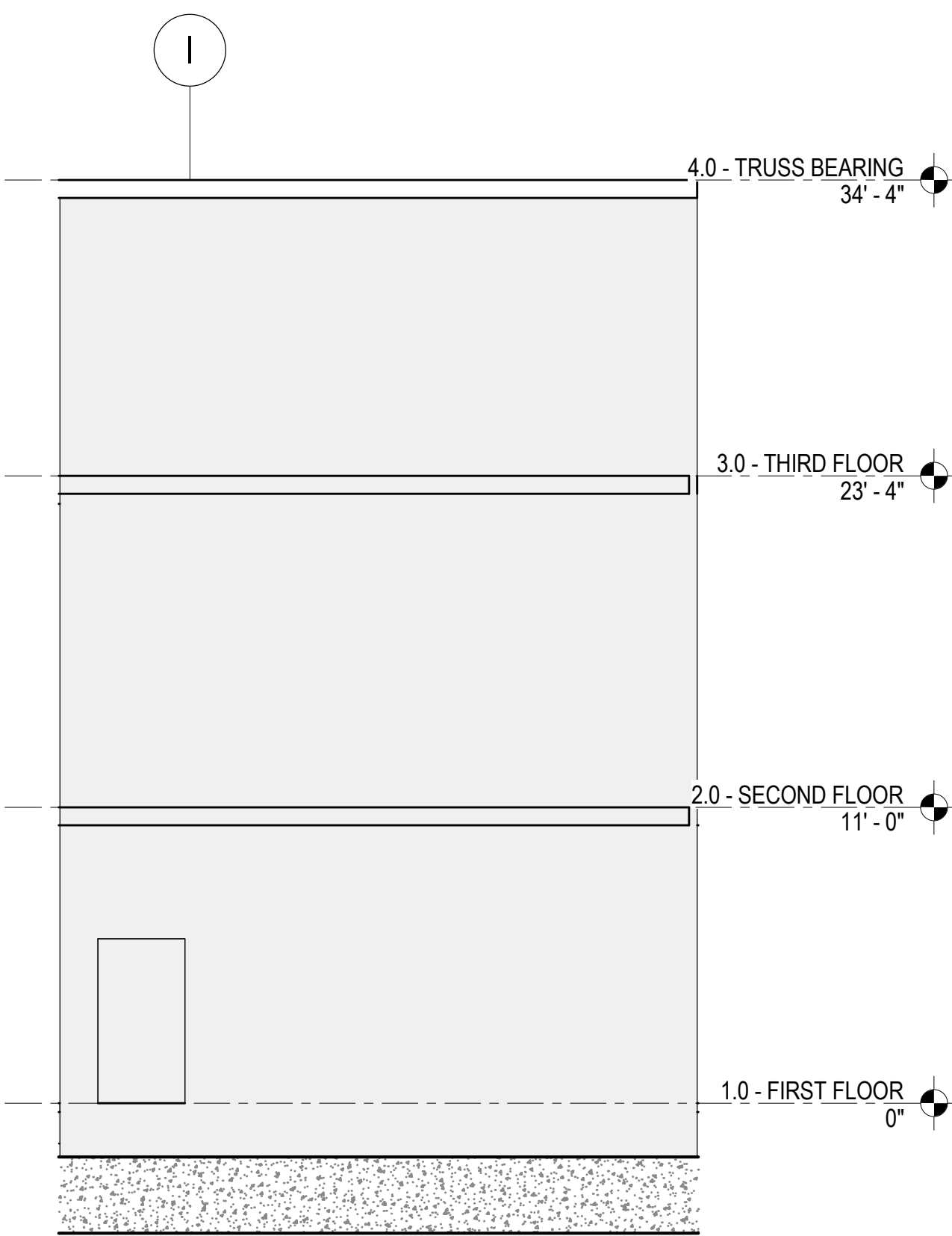
3/16" = 1'-0"



S1-S  
S-321

STAIR 1 SOUTH WALL ELEVATION

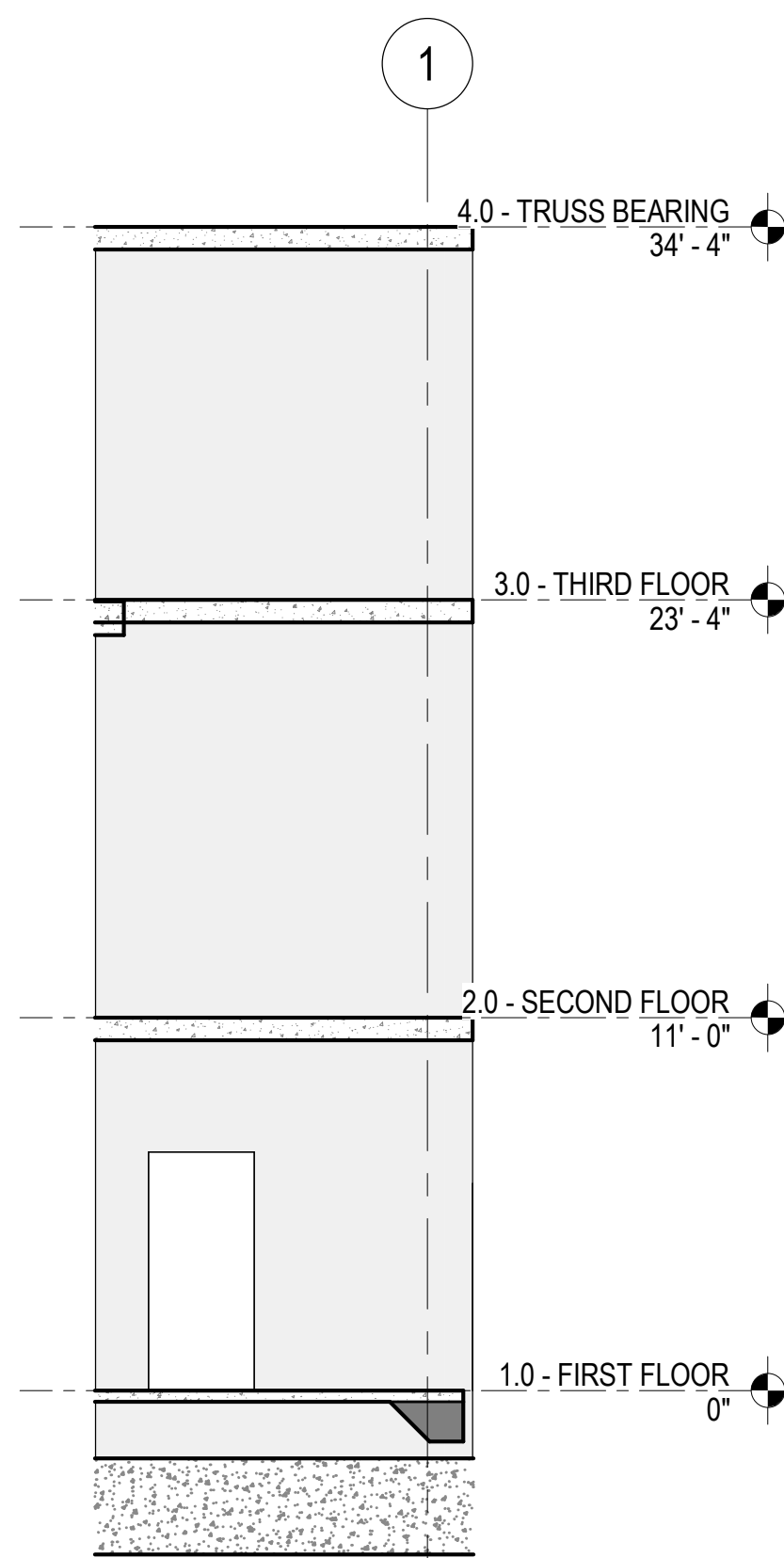
3/16" = 1'-0"



S1-W  
S-321

STAIR 1 WEST WALL ELEVATION

3/16" = 1'-0"



S1-N  
S-321

STAIR 1 NORTH WALL ELEVATION

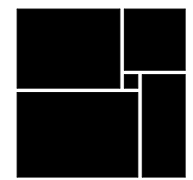
3/16" = 1'-0"

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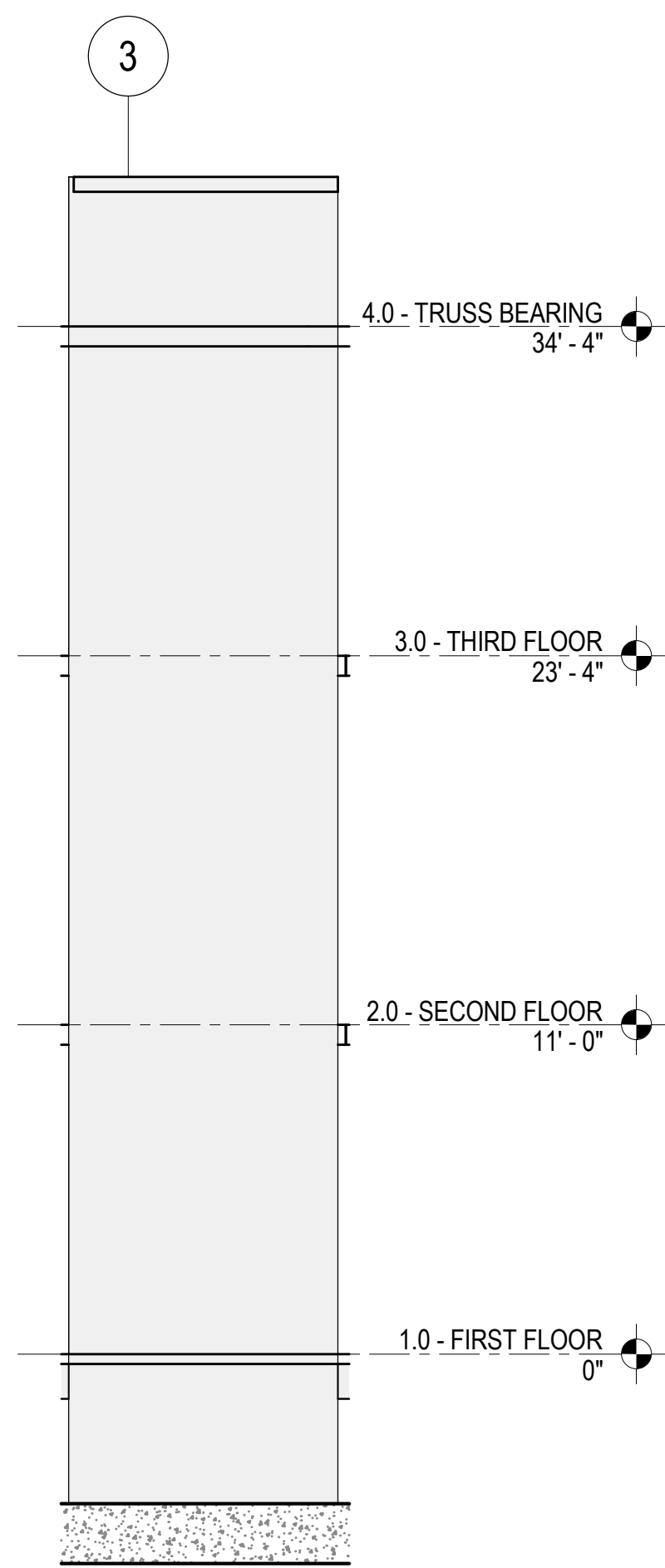
**DESIGN  
DEVELOPMENT**

Project No.: 2021009  
Date: 08/22/2025

**CONCRETE  
SHEAR WALL  
ELEVATIONS**

**S-321**

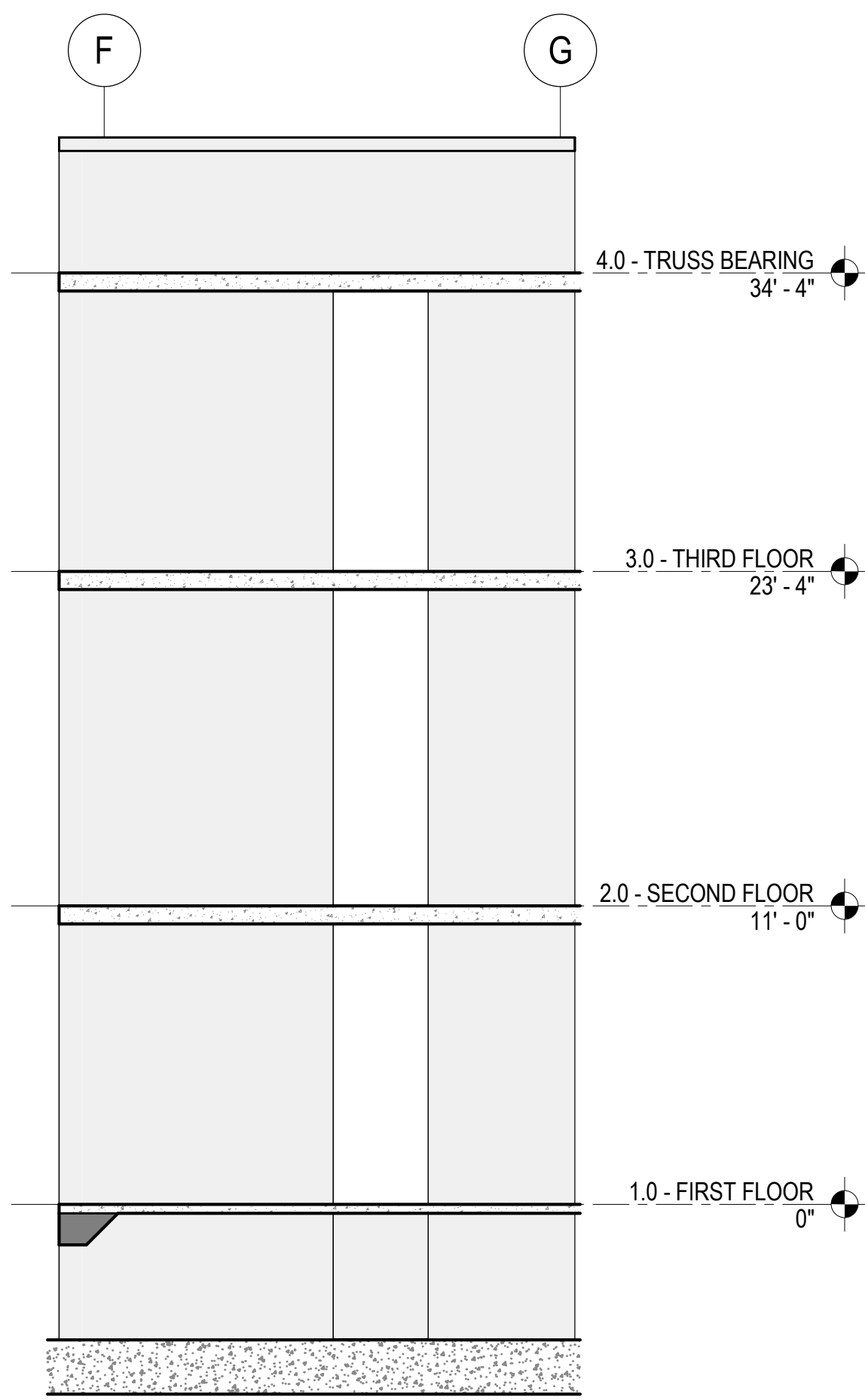




E1-N  
S-322

ELEVATOR 1 NORTH WALL ELEVATION

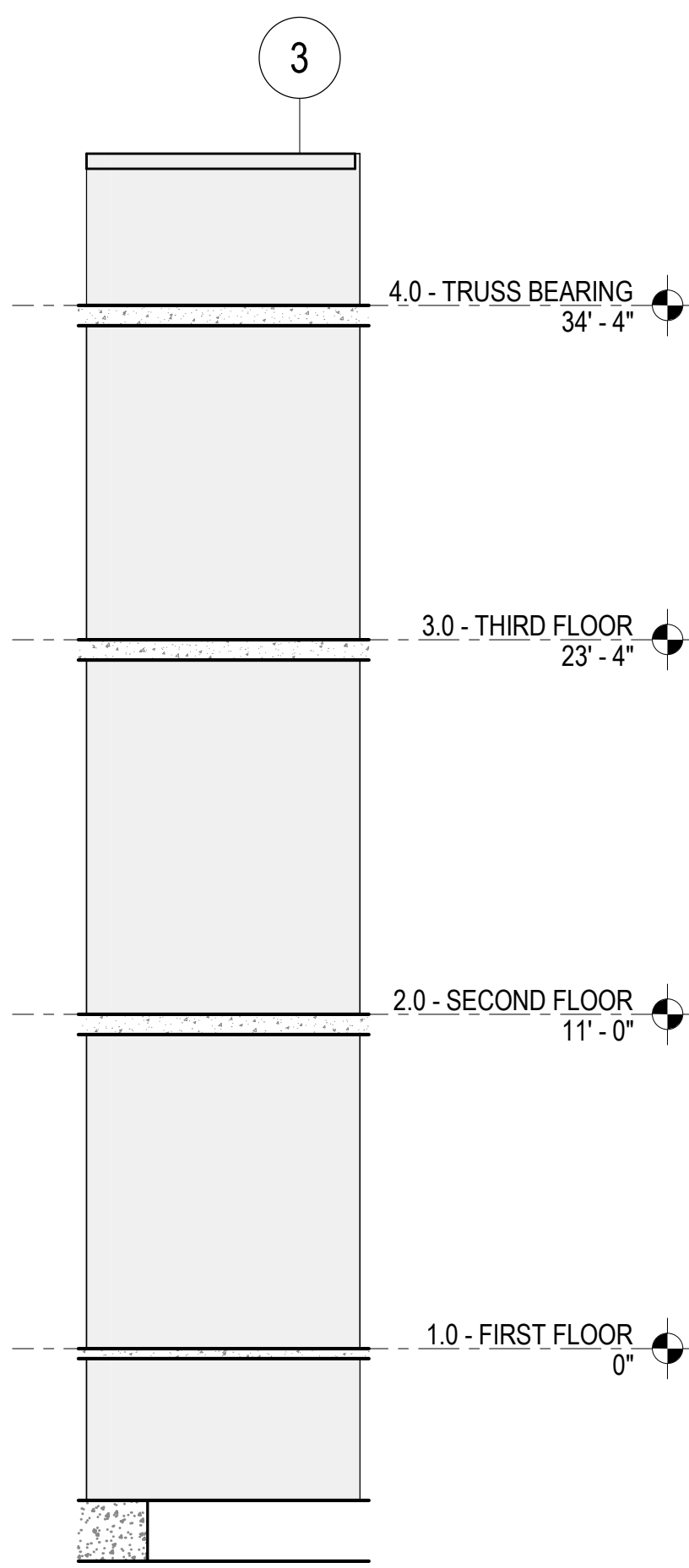
3/16" = 1'-0"



E1-W  
S-322

ELEVATOR 1 WEST WALL ELEVATION

3/16" = 1'-0"



E1-S  
S-322

ELEVATOR 2 SOUTH WALL ELEVATION

3/16" = 1'-0"

- 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:
    - #VW# DENOTES TYPICAL VERTICAL REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
    - #EV# DENOTES VERTICAL END ZONE REINFORCEMENT (SEE SCHEDULE ON THIS SHEET)
    - #HH# DENOTES TYPICAL HORIZONTAL REINFORCEMENT (SH12 UNLESS NOTED OTHERWISE - (SEE SCHEDULE ON THIS SHEET))
    - CBW# DENOTES COUPLING BEA, MARK (SEE SCHEDULE ON THIS SHEET)
  4. WHERE NOT SPECICALLU NOTED WITH #EV# OR CBW# REINFORCING, PROVIDE (4) #7 BARS AT ALL EDGES OF OPENINGS AND ENDS OF WALLS WITH (2) BARS EACH FACE SPACED AT 8" OC. BARS SHALL BE FULLY DEVELOPED FROM THE EDGE OF THE OPENING AND SHALL BE HOOKED AT WALL ENDS WHERE REQUIRED.
  5. ALL BARS SHALL BE FULLY LAPPED, INCLUDING DOWELS INTO FOUNDATION ELEMENTS.
  6. SEE DETAILS ON S-330.
  7. GC SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF WALLS AND OPENINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY DESIGN TEA, OF DISCREPANCIES.

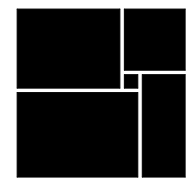
TYPICAL VERTICAL REINFORCING			
MARK	BAR SIZE	BAR SPACING	COMMENTS

VERTICAL CORNER REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

VERTICAL END REINFORCING			
MARK	BAR SIZE	# BARS (1/2 EF)	COMMENTS

10" CONCRETE SHEAR WALLS  
FOR DD PRICING PURPOSES, ASSUME THE  
FOLLOWING MATERIAL QUANTITIES:  
• 3.5 PSF CONVENTIONAL REBAR

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CONCRETE  
SHEAR WALL  
ELEVATIONS  
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S-322



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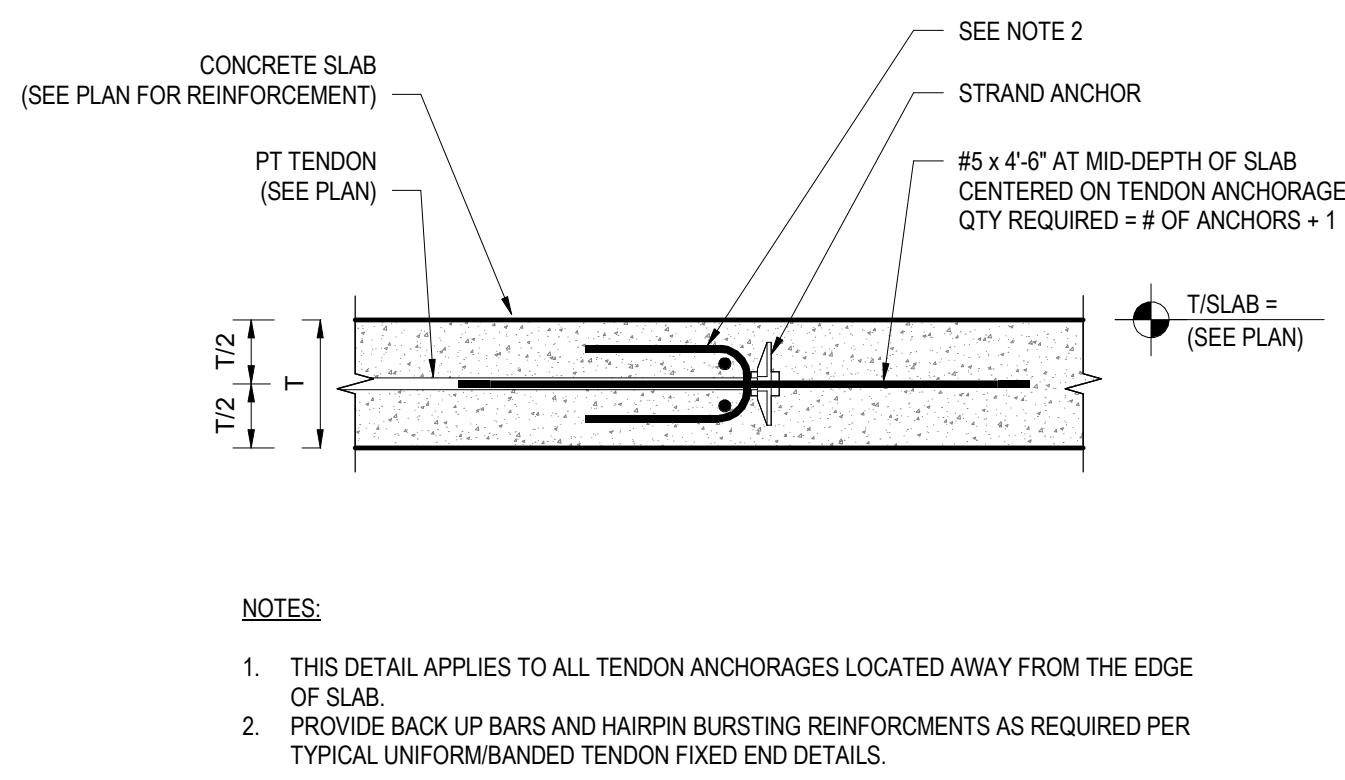
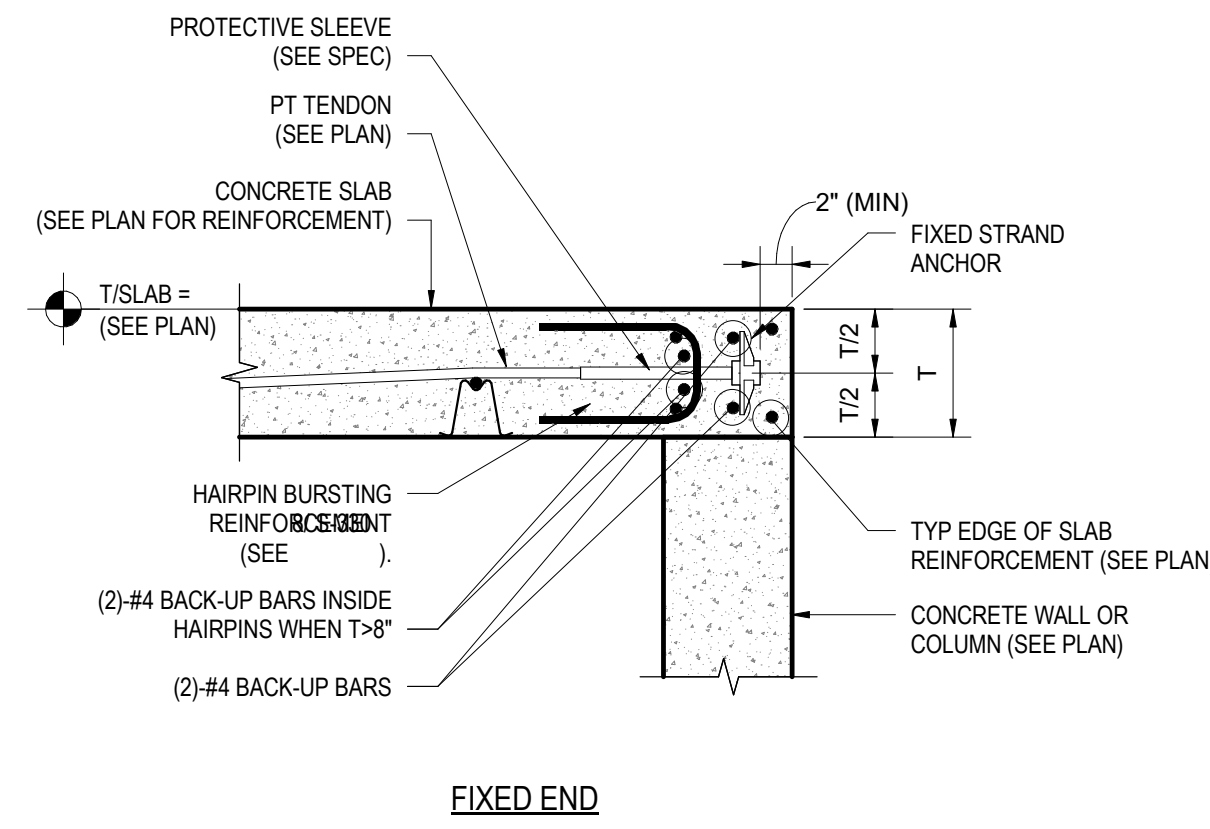
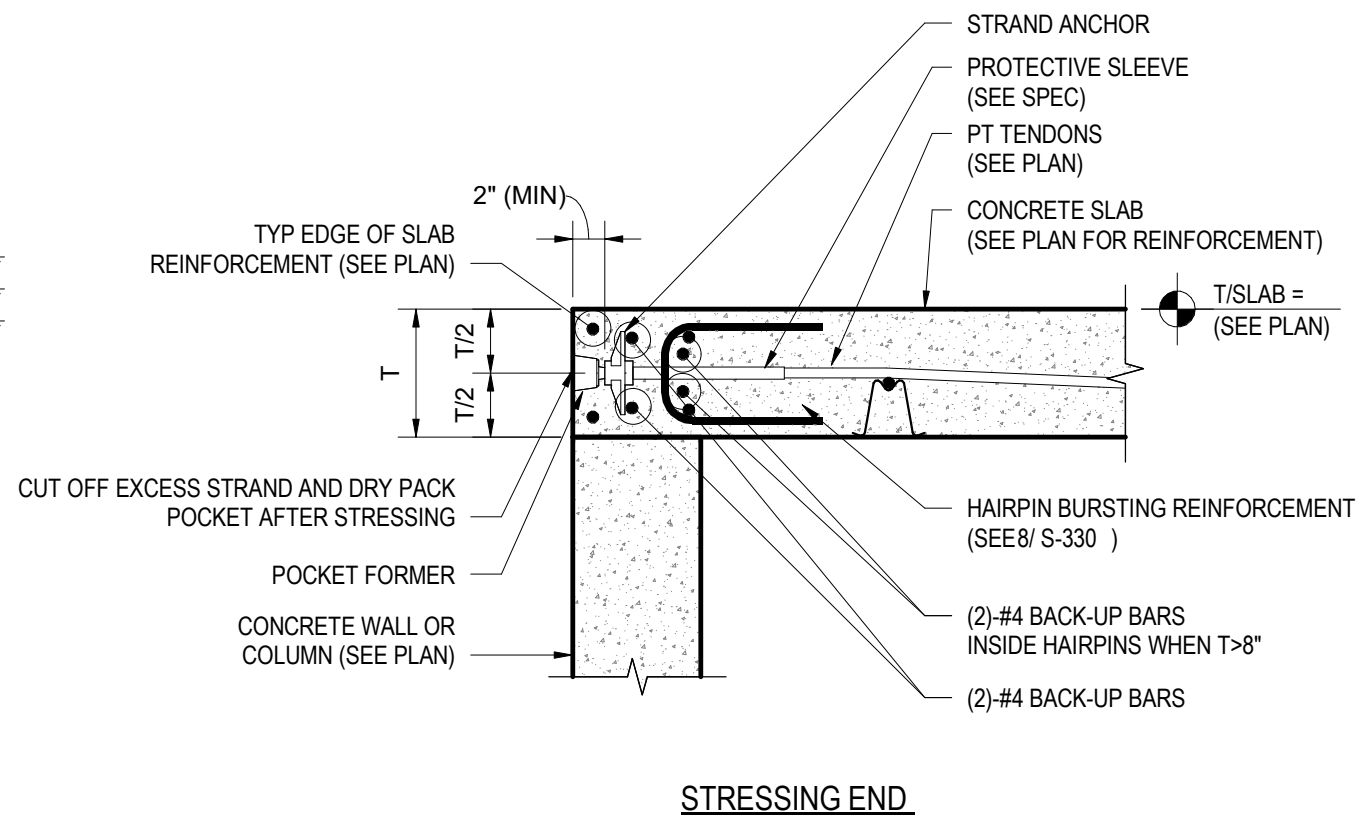
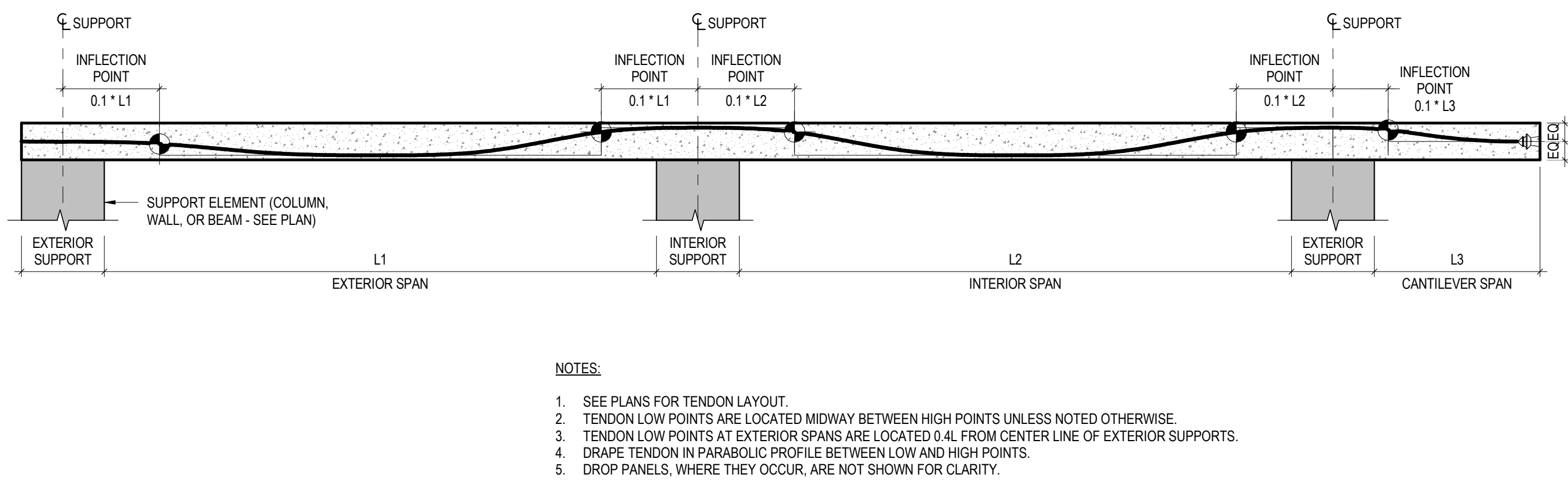
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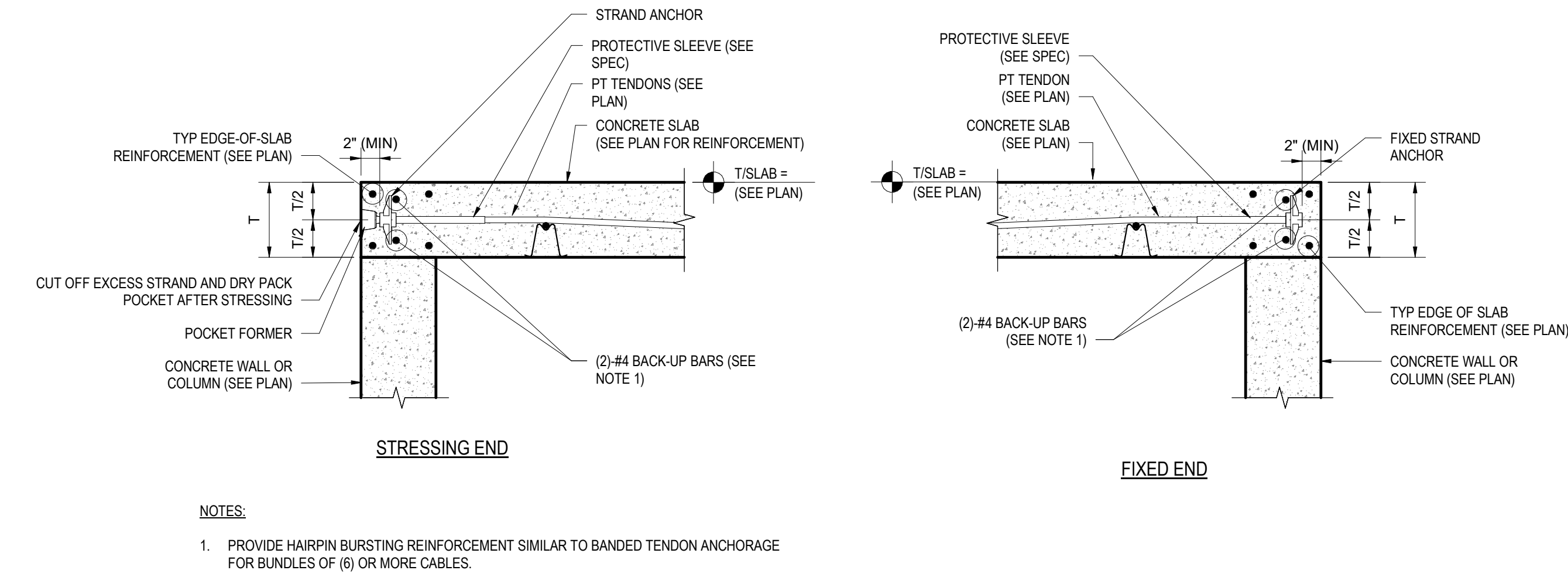


Autodesk Docs://The Waterford (Stage 2)/2021009\_WCR\_MC-AL-BLDG\_STRUCT\_P24.rvt



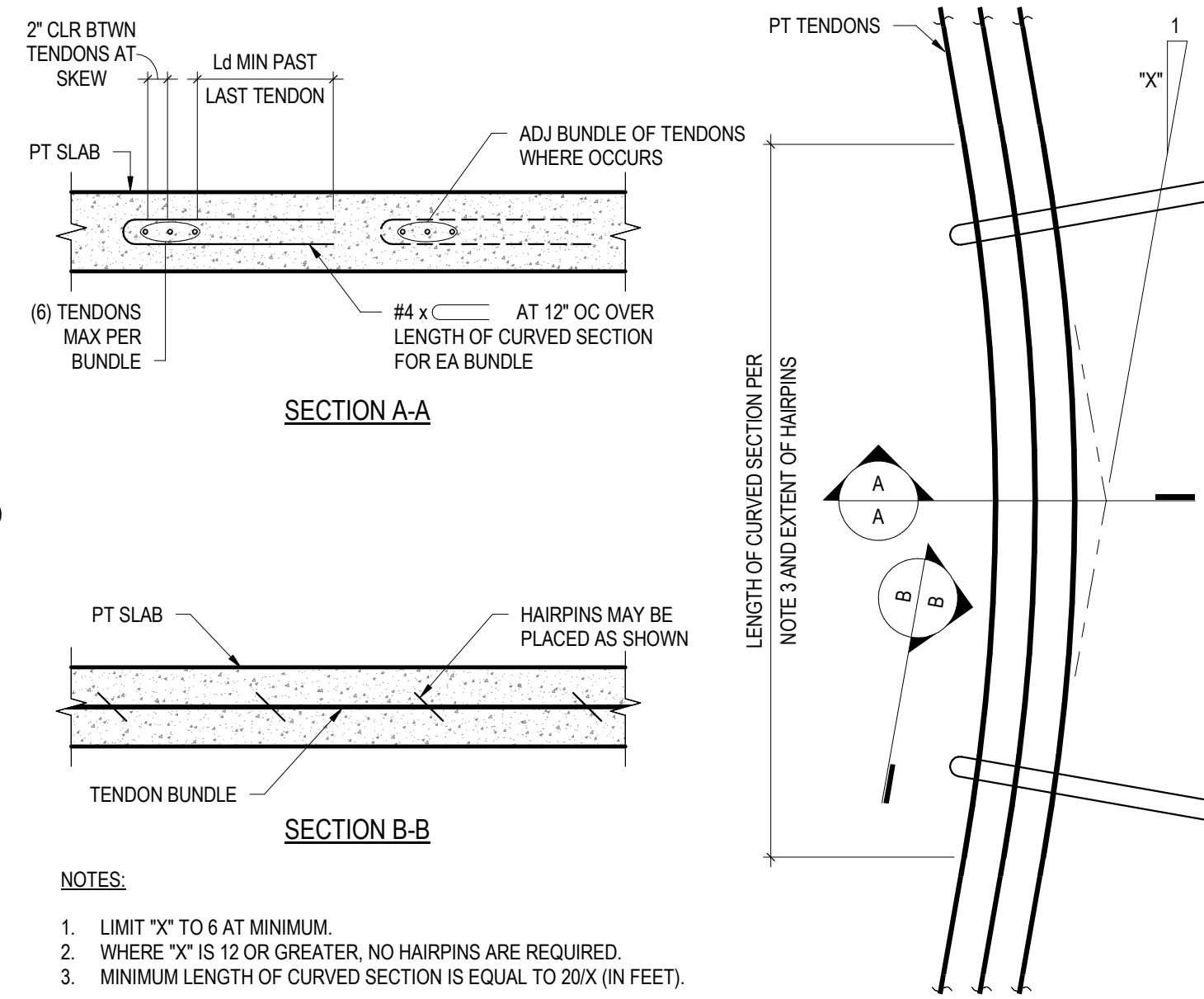
## 1 TYPICAL TENDON PROFILE

1/2" = 1'-0"



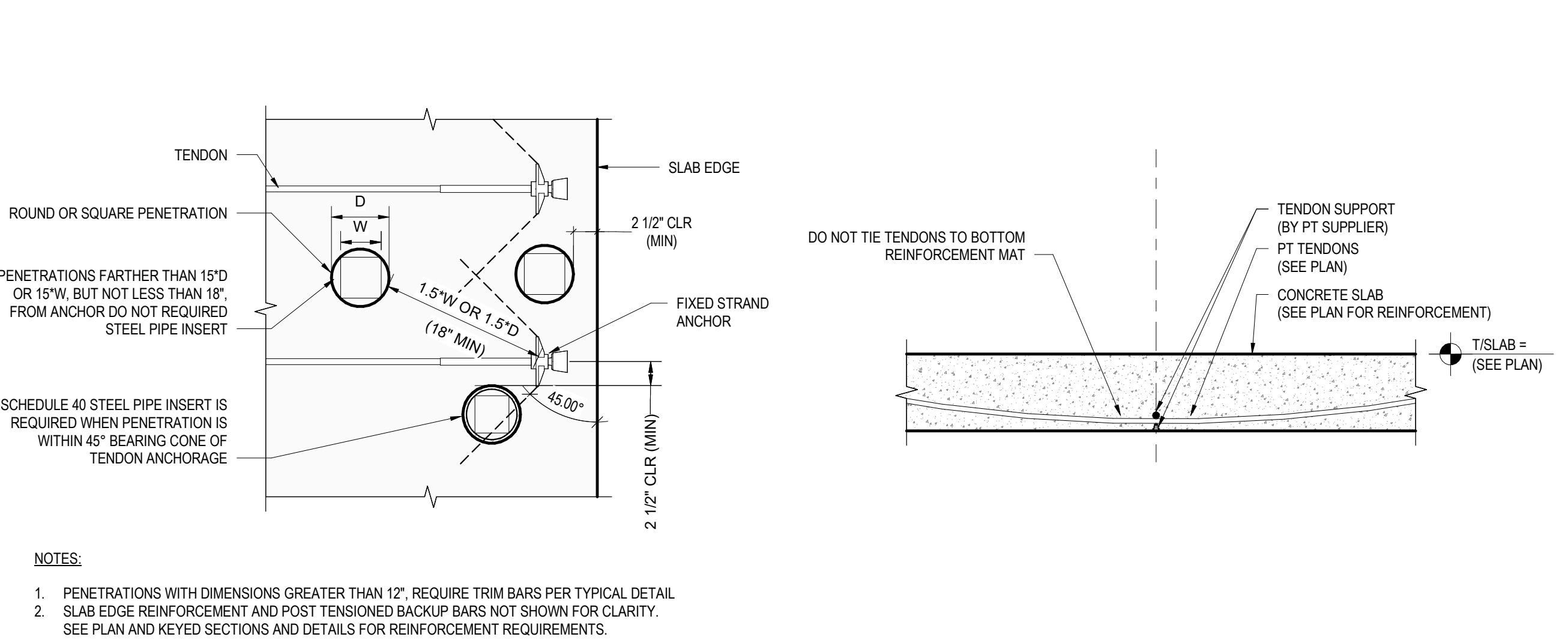
## 2 BANDED TENDON ANCHORAGE CONDITIONS

NTS



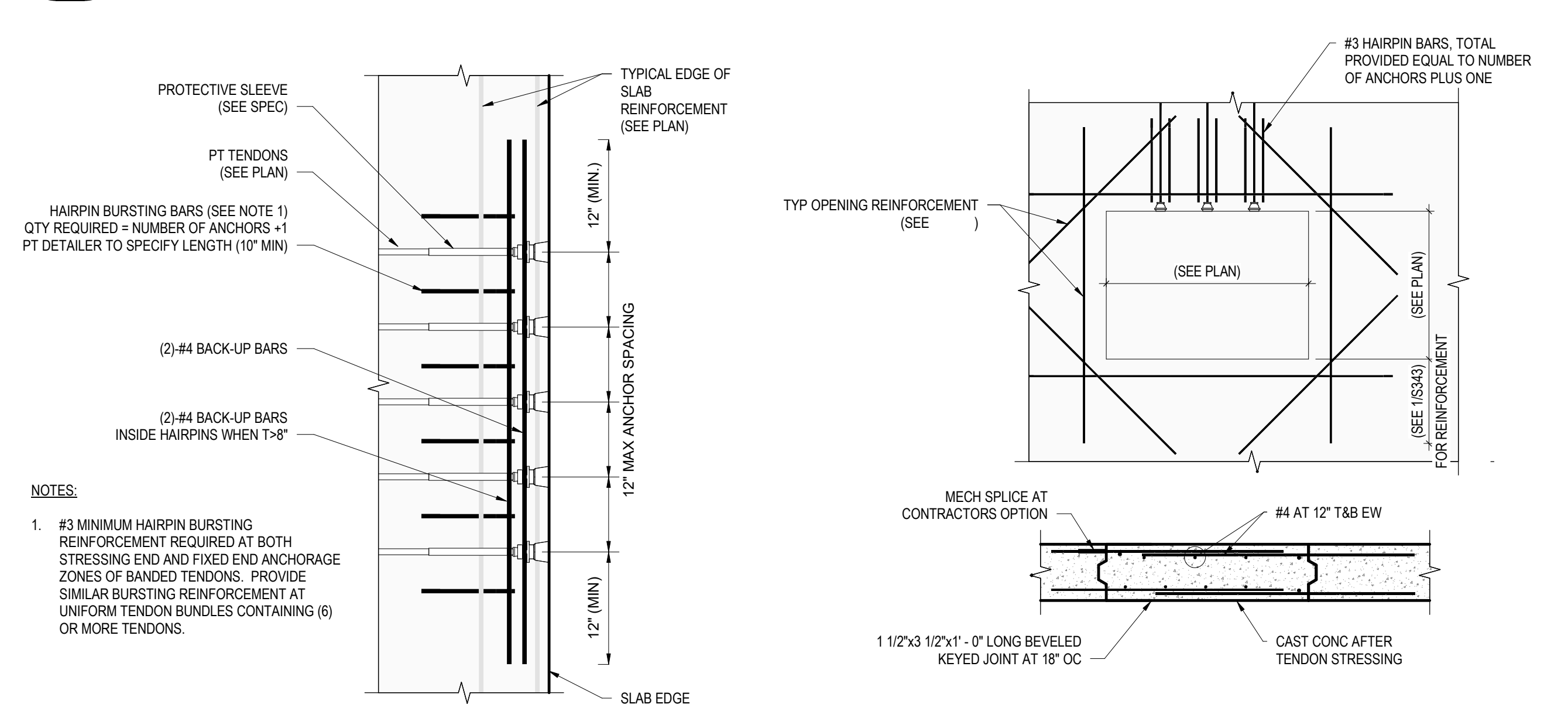
## 3 ANCHORAGE AT ADDED TENDON

NTS



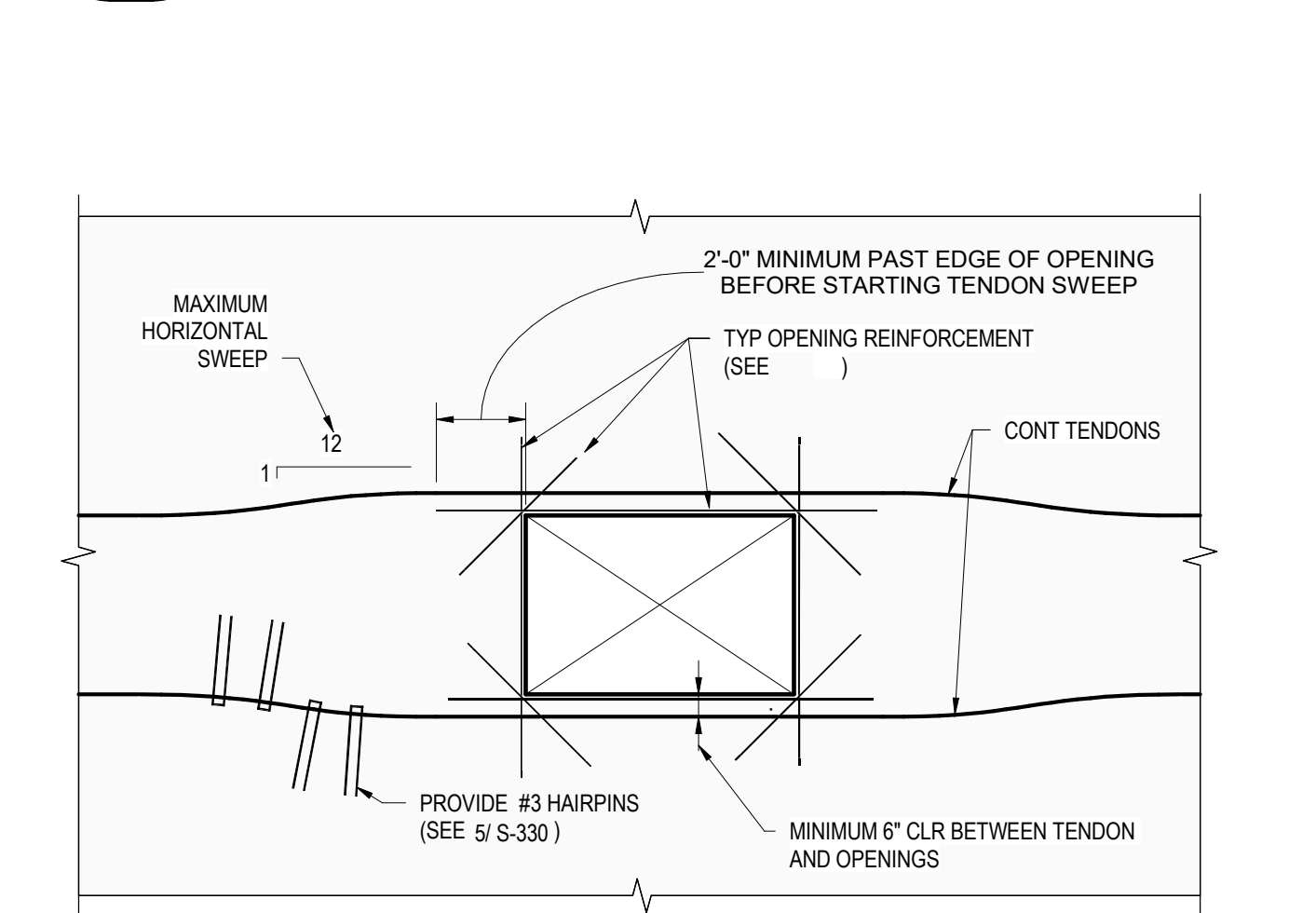
## 4 UNIFORM TENDON ANCHORAGE CONDITIONS

NTS



## 5 TYPICAL TENDON HORIZONTAL CURVE

3/4" = 1'-0"



## 6 SLEEVES NEAR TENDON ANCHORAGE

1" = 1'-0"



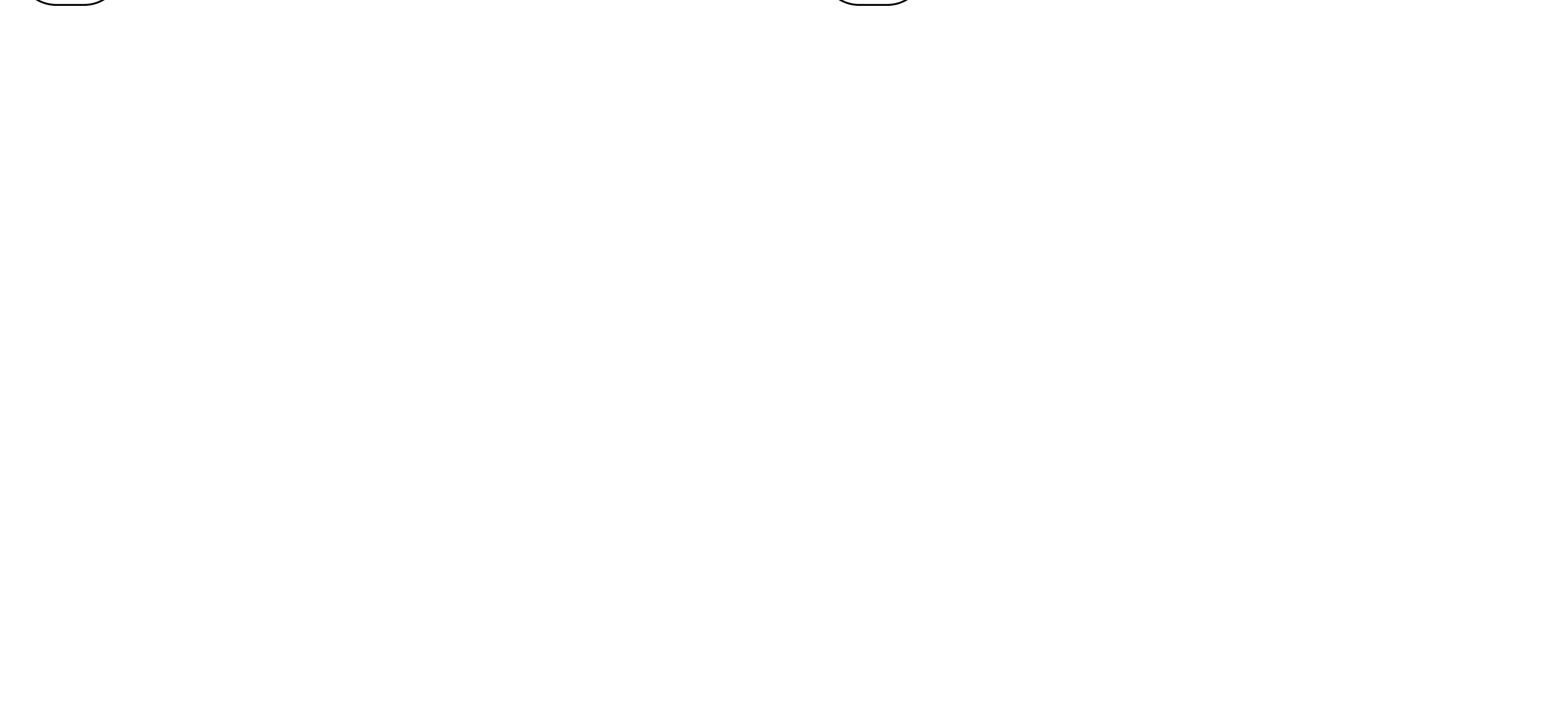
## 7 PT TENDON LOW POINT - SECTION

1" = 1'-0"



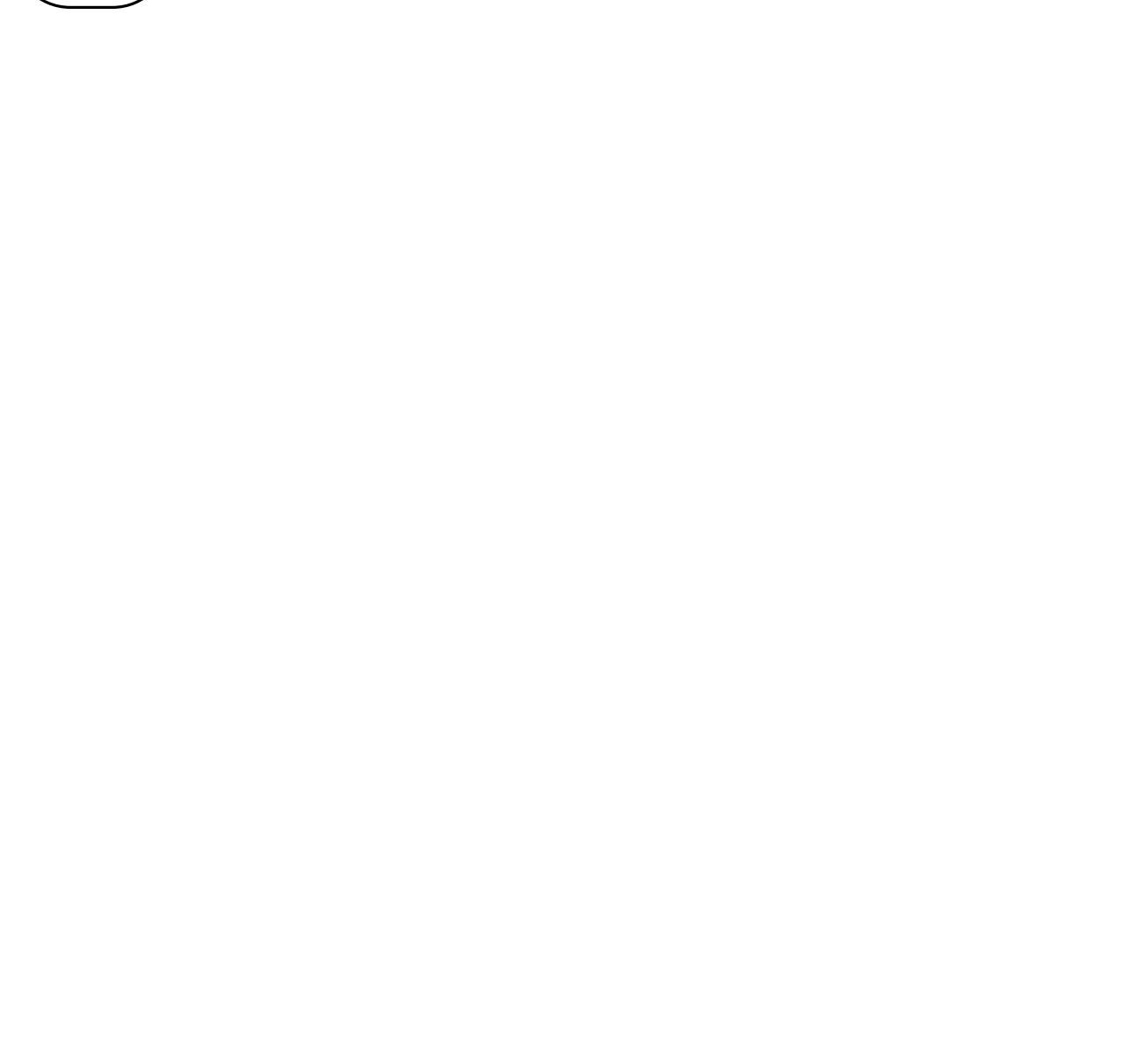
## 8 TYPICAL BANDED ANCHORAGE ZONE

NTS



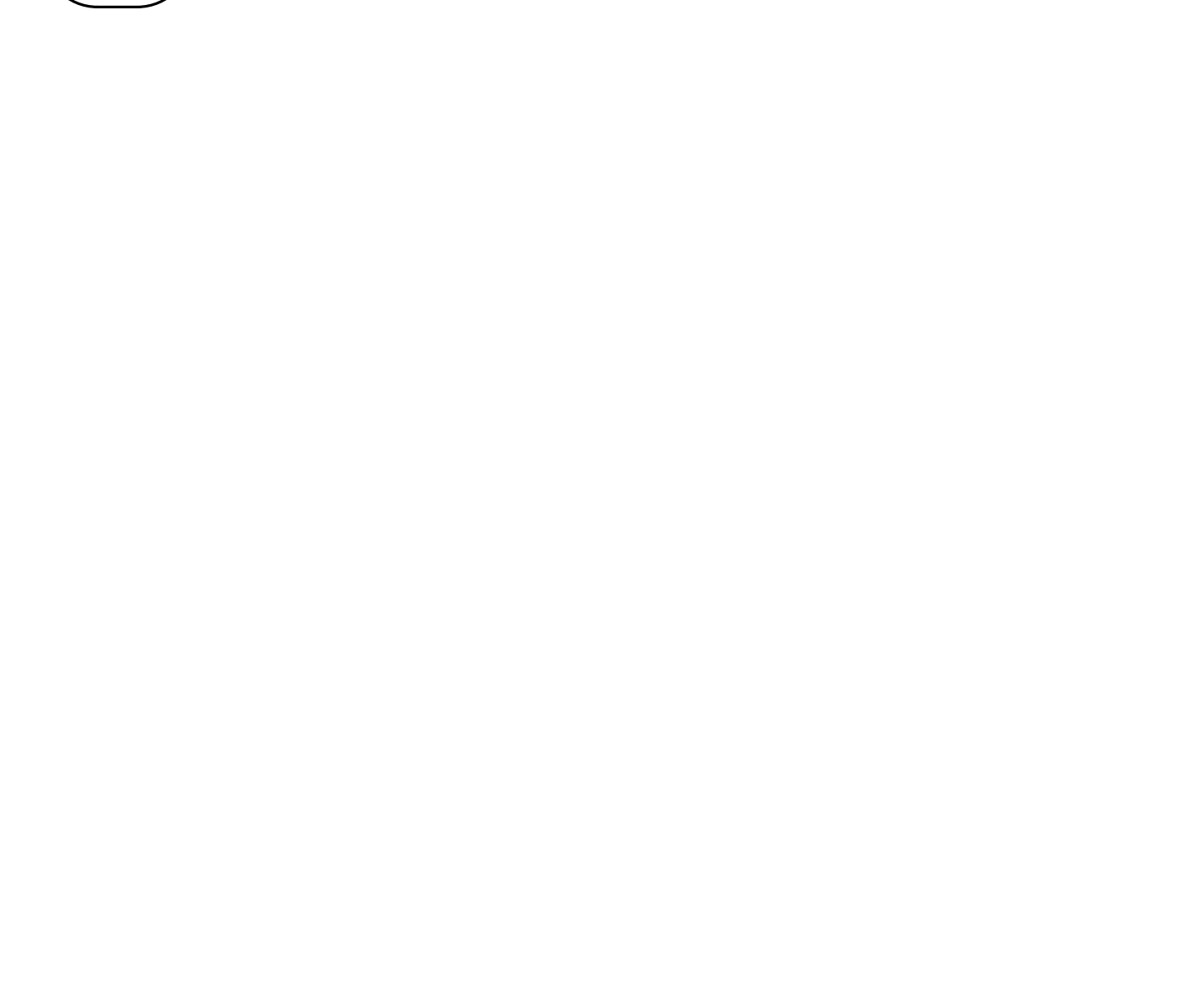
## 9 STRESSING BLOCKOUT

1/2" = 1'-0"



## 10 TENDONS AT SLAB OPENING

NTS



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Project No.: 2021009  
Date: 08/22/2025

TYPICAL PT  
TENDON  
DETAILS

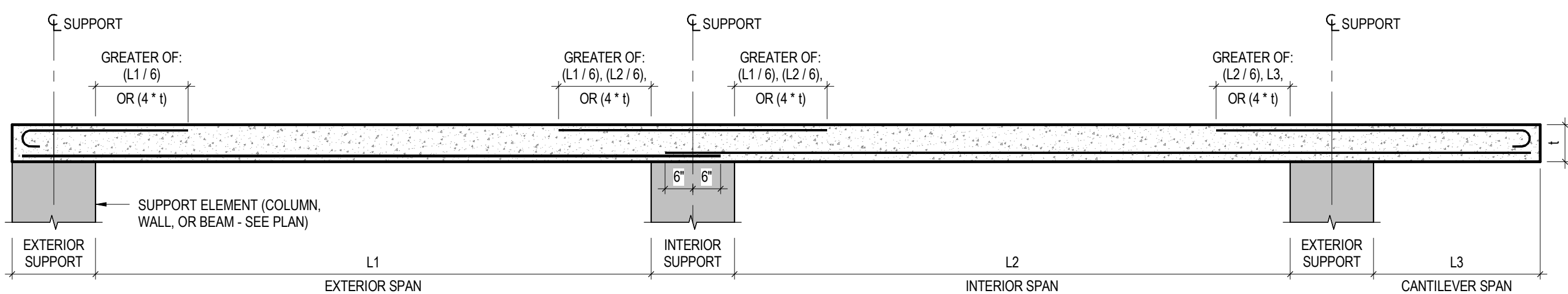
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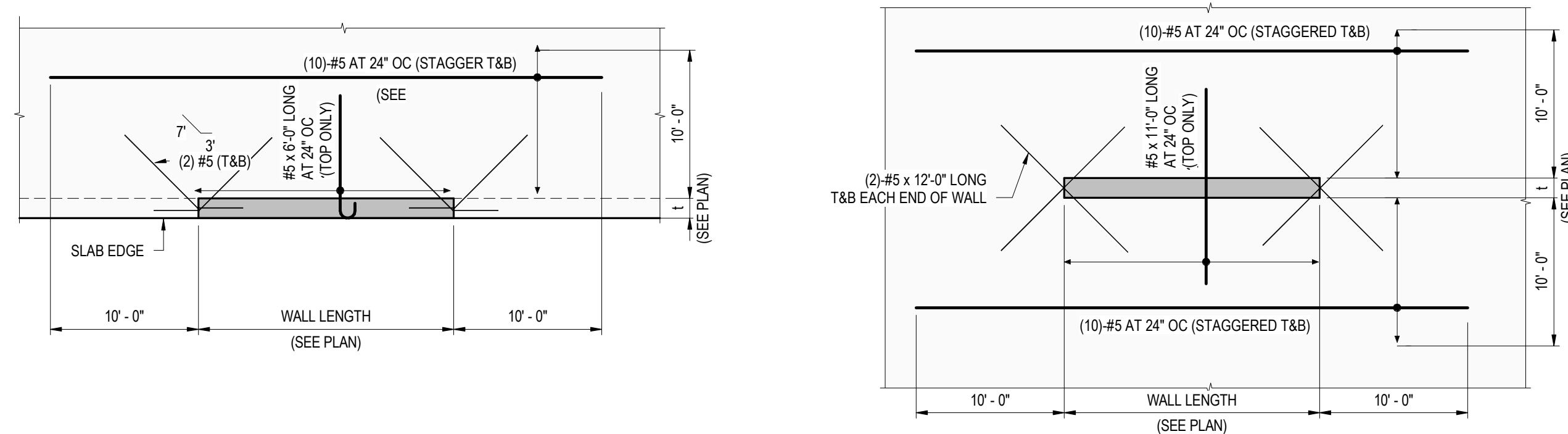




NOTES:

- DRAWING IS NOT TO SCALE.
- CLEAR COVER PER CONCRETE SLAB CLEAR COVER SCHEDULE ON.
- BAR LENGTHS SHOWN ABOVE SHALL BE USED UNLESS NOTED OR SHOWN OTHERWISE ON DRAWINGS.
- TERMINATE TOP BARS AT EDGE-OF-SLAB OR EDGE-OF-OPENING WITH ACI STANDARD 180° HOOKS TURNED FROM VERTICAL AS REQUIRED TO MAINTAIN CLEAR COVER.
- BOTTOM BARS SHALL BE DETAILED AS FOLLOWS:
  - WHEN SHOWN ON PLAN AS CONTINUOUS BETWEEN SUPPORTS - FULL-LENGTH WITH MINIMUM EMBEDMENTS INTO SUPPORTS EACH END AS SHOWN ABOVE.
  - WHEN SHOWN ON PLAN AS PARTIAL LENGTH - LENGTH EQUAL TO THAT INDICATED ON PLAN OR HALF OF THE SPAN IN WHICH THEY ARE PLACED (WHICHEVER IS GREATER) WITH 1/4 OF THE SPECIFIC BAR QUANTITY (ROUNDED UP - MINIMUM OF 2) CONTINUOUS BETWEEN SUPPORTS WITH MINIMUM EMBEDMENT INTO SUPPORTS EACH END AS SHOWN ABOVE.

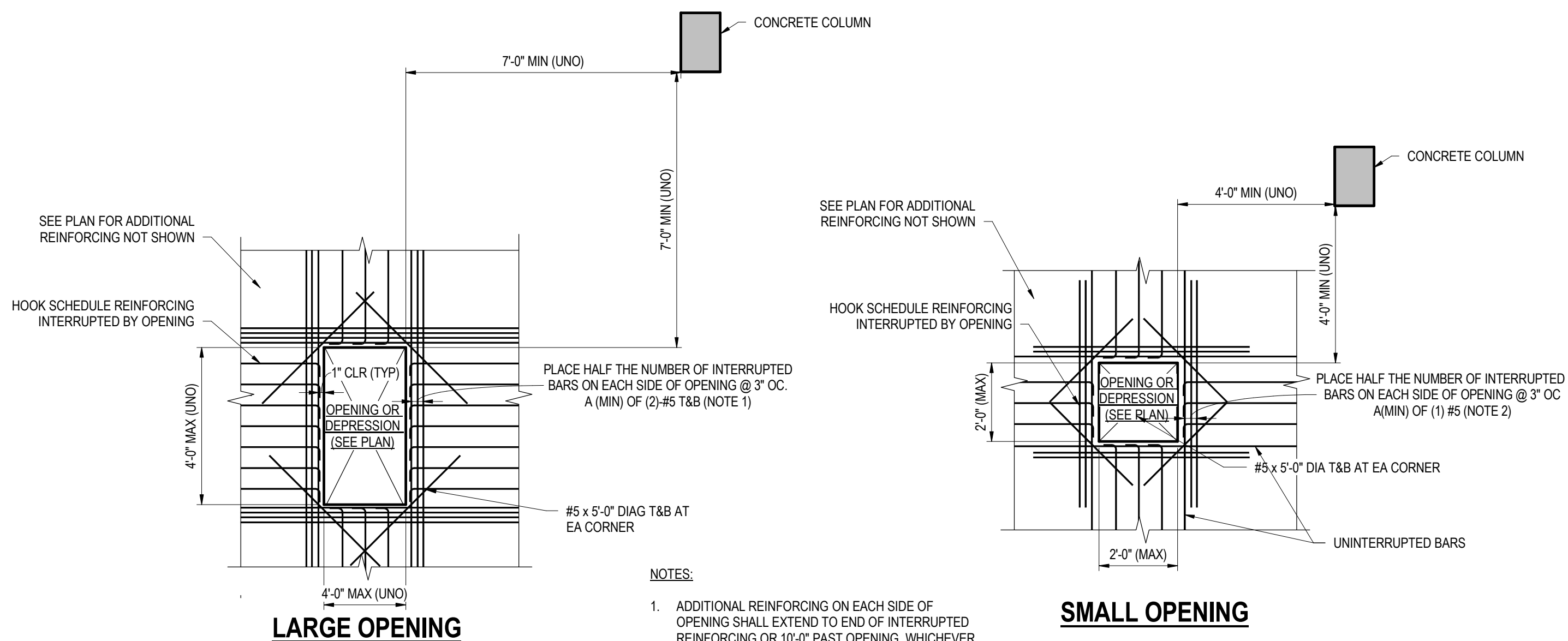
1 TYPICAL POST-TENSIONED SLAB BAR LENGTHS  
1/2" = 1'-0"



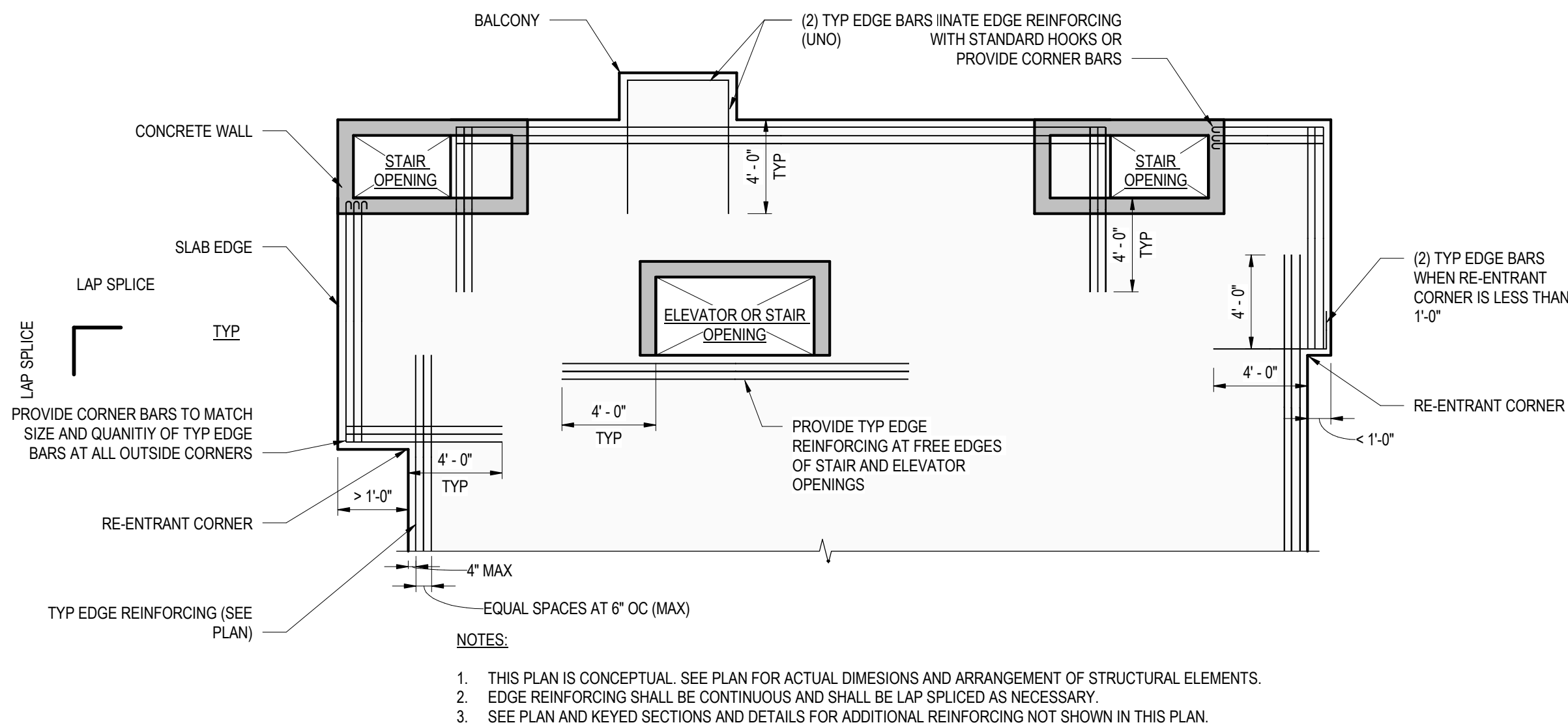
NOTES:

- AT BASEMENT OR RETAINING WALL CONDITIONS, REINFORCING INDICATED SHALL BE INSTALLED CONTINUOUS ALONG FULL LENGTH OF WALL AND SLICE CONNECTIONS SHALL BE PROVIDED.

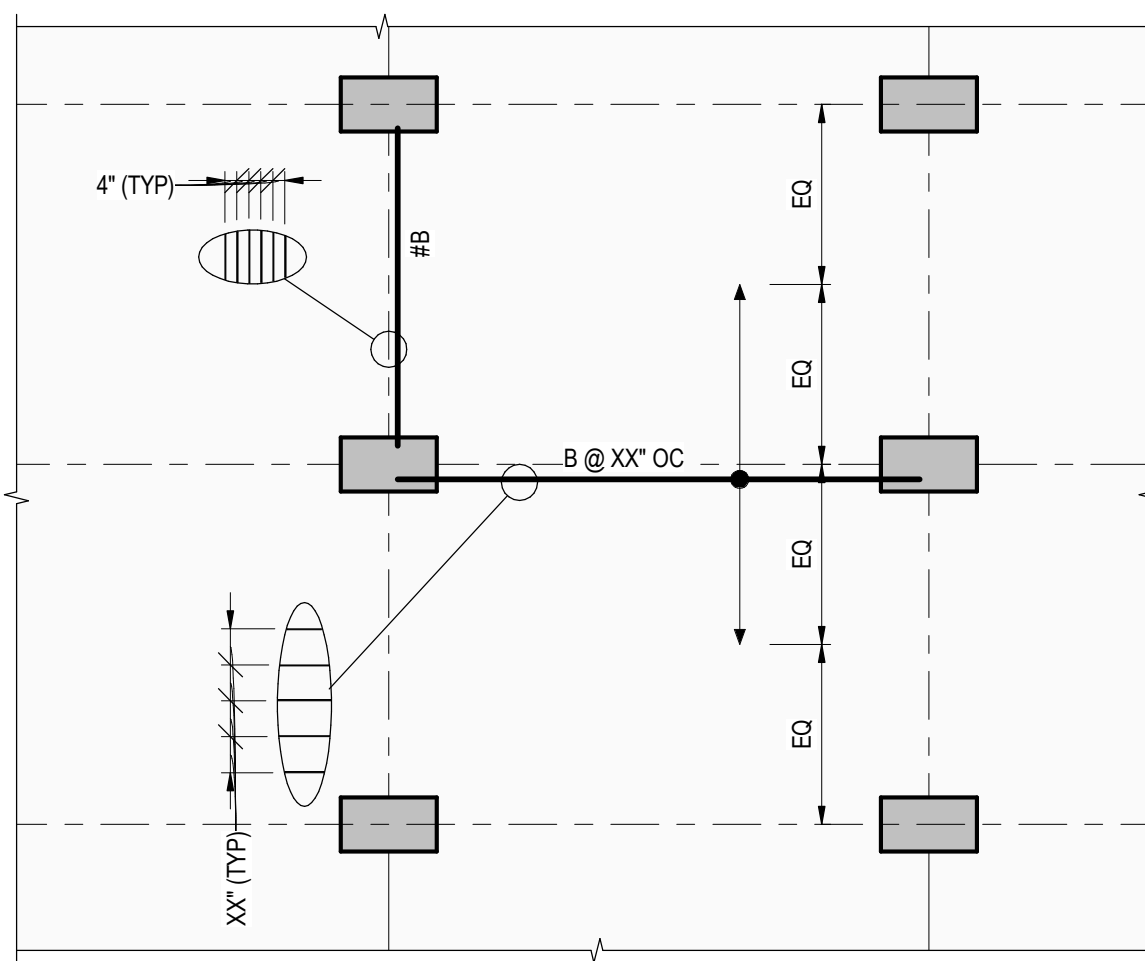
5 ADDITIONAL SLAB REINFORCEMENT AT CONCRETE WALLS  
1/8" = 1'-0"



8 TYPICAL SLAB OPENING REINFORCING AT POST-TENSIONED SLAB - PLAN  
3/8" = 1'-0"



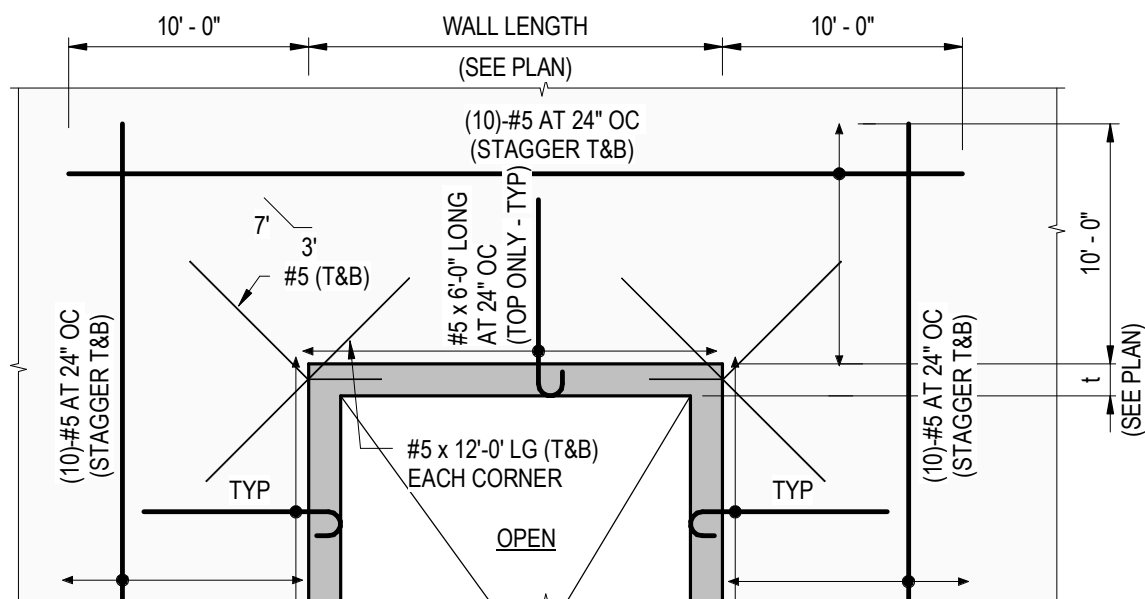
11 TYPICAL ELEVATED SLAB EDGE REINFORCING CONCEPTUAL PLAN  
3/16" = 1'-0"



NOTES:

- BARS SHOWN AS #8 SHALL BE CENTERED ALONG COLUMN LINE UNLESS SPECIFICALLY NOTED OTHERWISE.
- BAR SPACED FOR BARS SHOWN AS #8 SHALL BE 4" OC UNLESS NOTED OTHERWISE.
- BARS SHOWN AS SPACED AT xx" SHALL BE OF A QUANTITY AS REQUIRED TO FILL EVENLY THE EXTENTS SHOWN ON PLAN.
- BOTTOM BARS SHALL BE CENTERED AT MID SPAN UNLESS NOTED OTHERWISE.
- SEE TYPICAL POST TENSIONED SLAB REINFORCING LAYOUT DETAIL FOR BAR EXTENTS.

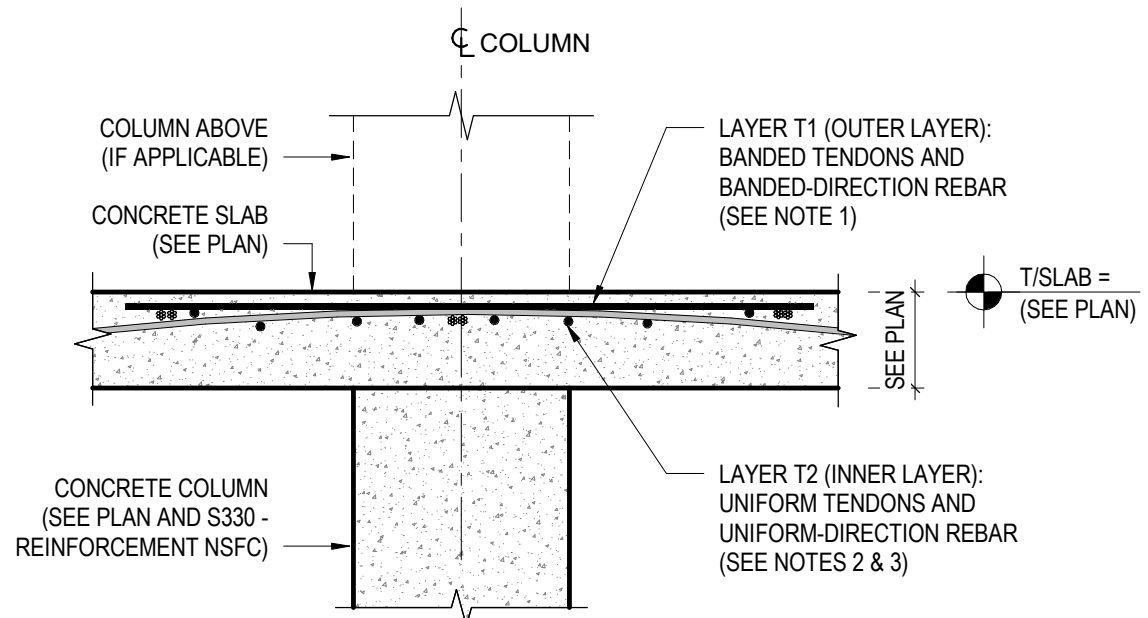
2 BOTTOM BAR PLACEMENT  
NTS



NOTES:

1. DENOTES SLAB THICKNESS AT COLUMN LOCATION.
- PLACE A MINIMUM OF 2 OR 3 BARS THROUGH COLUMN SO THAT REMAINING BARS ARE EQUAL ON EACH SIDE OF COLUMN.
- BAR SPACING SHALL BE SUCH THAT ALL BARS FIT WITHIN (B OR H) + 3L, BUT SHALL NOT BE SPACED GREATER THAN 12" OC.
- SEE TYPICAL POST TENSIONED SLAB REINFORCING LAYOUT DETAIL FOR BAR LENGTHS.

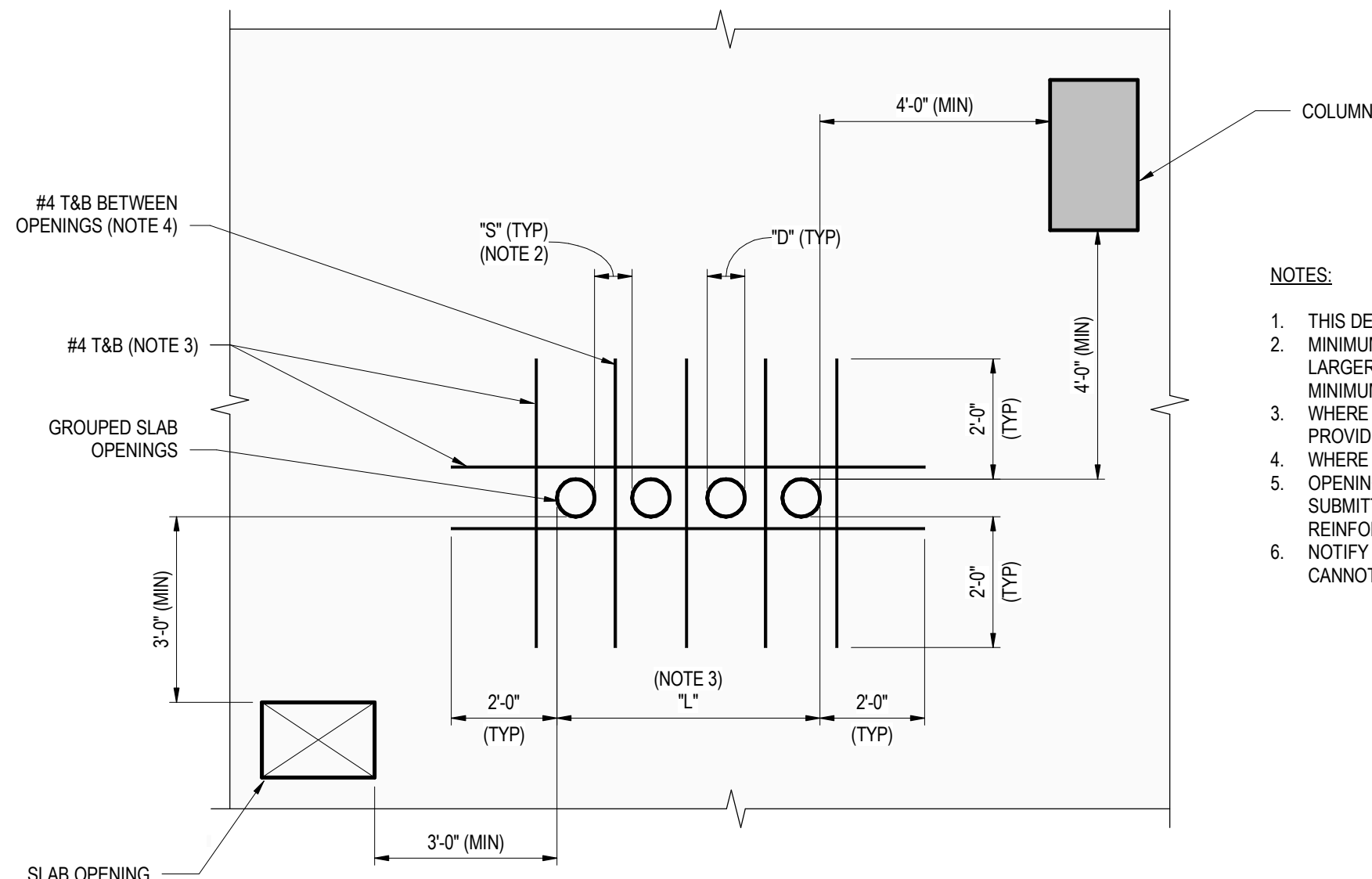
3 TOP BAR PLACEMENT AT COLUMNS  
NTS



NOTES:

- 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 DRAPE ELEVATION NOTED ON THE PLANS.

6 PLACEMENT PRIORITIES AT COLUMNS  
3/4" = 1'-0"

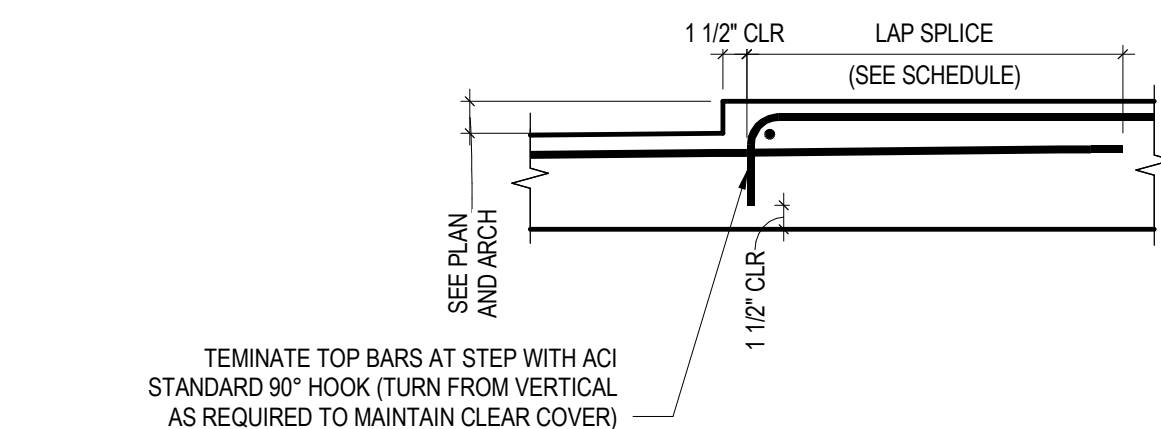


NOTES:

- THIS DETAIL APPLIES TO GROUPED OPENINGS WITH 0 ≤ S ≤ 6".
- MINIMUM OPENING SPACE: "S" = OPENING WIDTH, "D" OR "S" (WHICHEVER IS LARGER), WHERE A TENDON MUST PASS BETWEEN OPENINGS, "S" = 6" MINIMUM.
- WHERE "S" IS > 1'-0" OR THERE ARE (3) OR MORE GROUPED OPENINGS, PROVIDE #4 TOP AND BOTTOM ON EACH SIDE OF GROUPED OPENINGS.
- WHERE "S" ≤ 1'-0", PROVIDE #4 TOP AND BOTTOM BETWEEN OPENINGS.
- OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR REVIEW WITH SLAB SHOP DRAWINGS. ADDITIONAL SLAB REINFORCING MAY BE REQUIRED BEYOND WHAT IS DETAILED.
- NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF THESE CONDITIONS CANNOT BE MET.

9 TYPICAL GROUPED OPENING REINFORCING AT POST-TENSIONED SLAB - PLAN  
1/2" = 1'-0"

7 TYPICAL PT SLAB FOLD - DETAIL  
3/4" = 1'-0"



10 REBAR TRANSITION AT SLAB STEP  
1" = 1'-0"

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TYPICAL PT  
REINFORCEMENT  
DETAILS

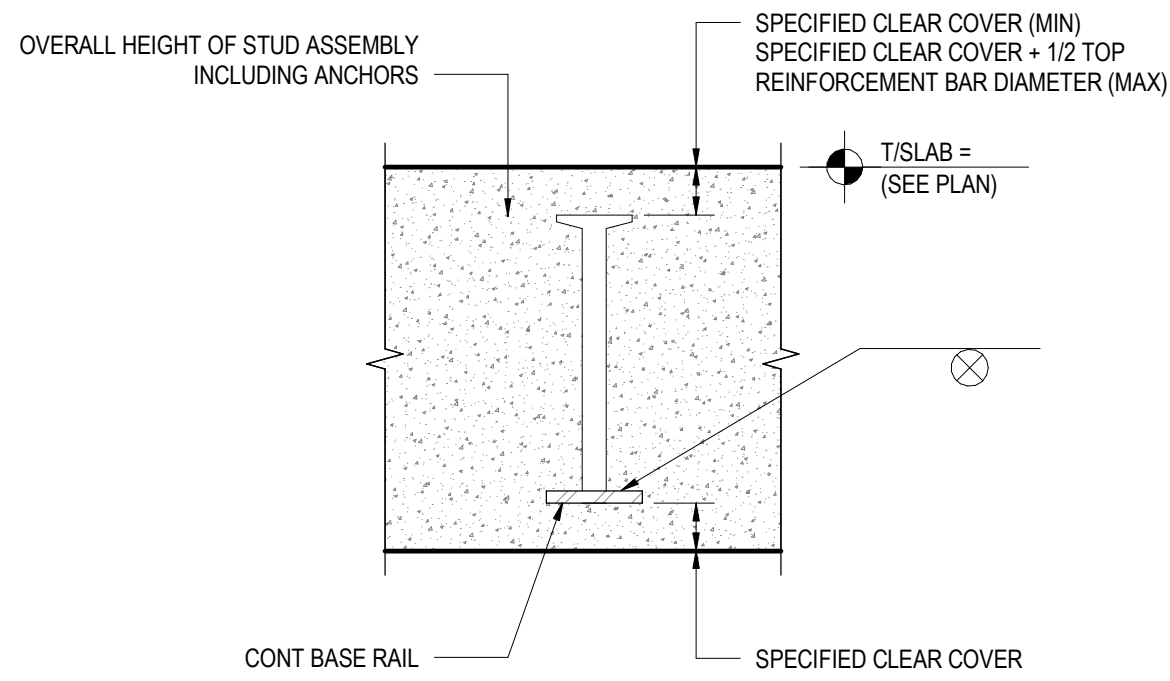
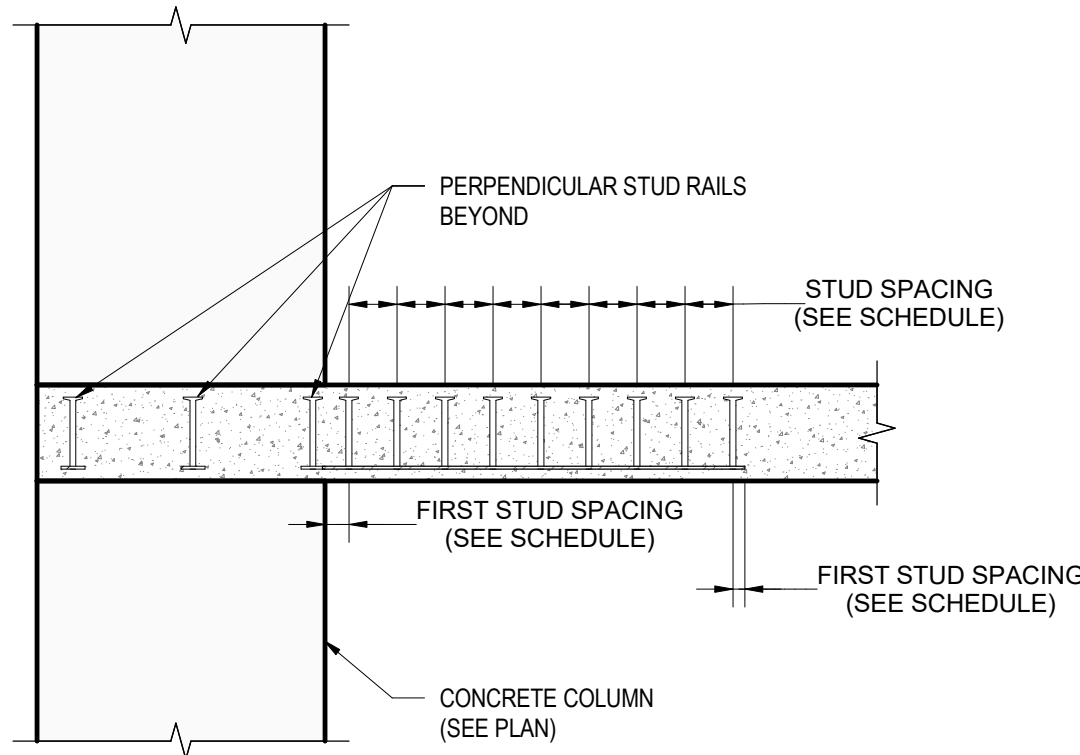
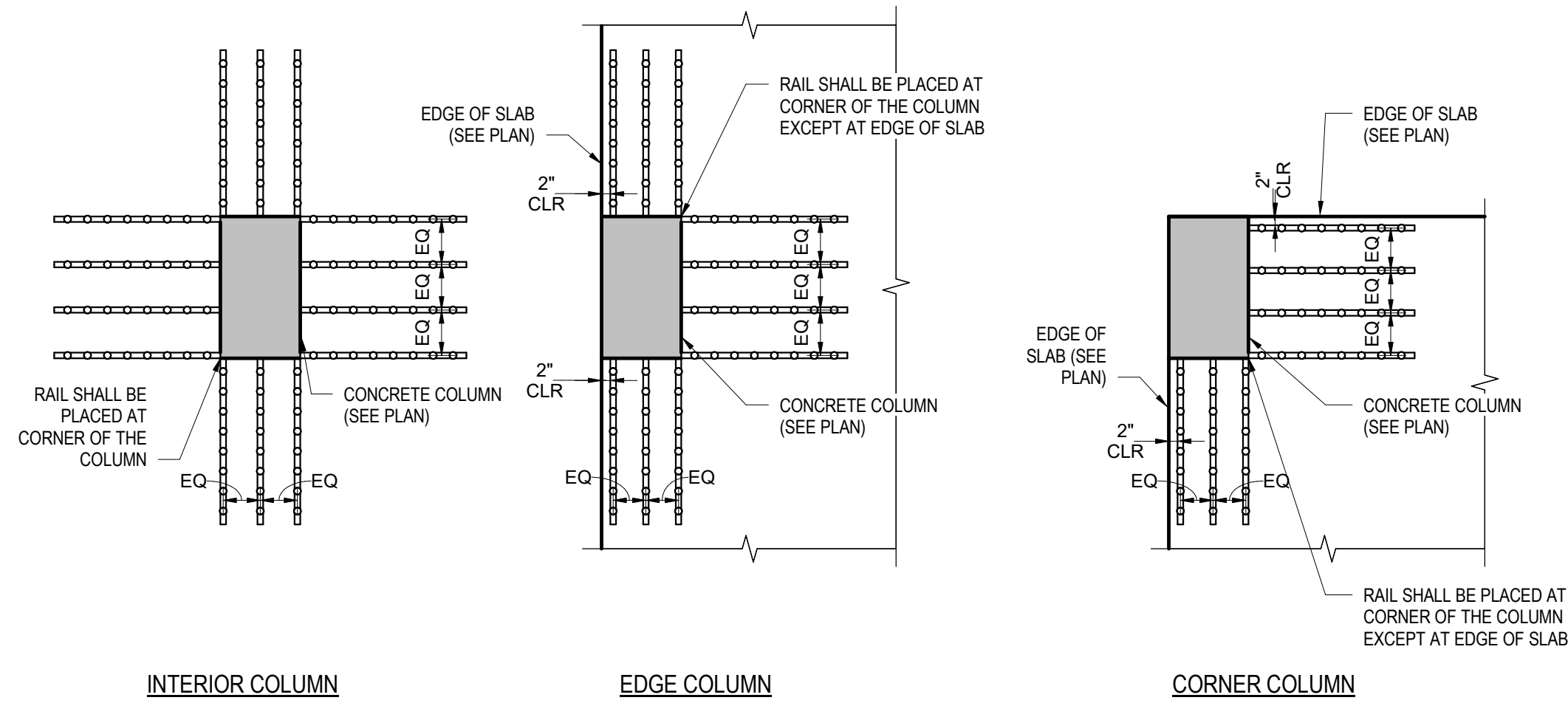
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1  
S-332

### TYPICAL SHEAR STUD RAIL CONFIGURATIONS - PLAN

3/8" = 1'-0"

2  
S-332

### TYPICAL SHEAR STUD RAIL LAYOUT - ELEVATION

3/4" = 1'-0"

3  
S-332

### TYPICAL SHEAR STUD LAYOUT - SECTION

3" = 1'-0"

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Project No.: 2021009  
Date: 08/22/2025

TYPICAL PT  
REINFORCEMENT  
DETAILS

S-332



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

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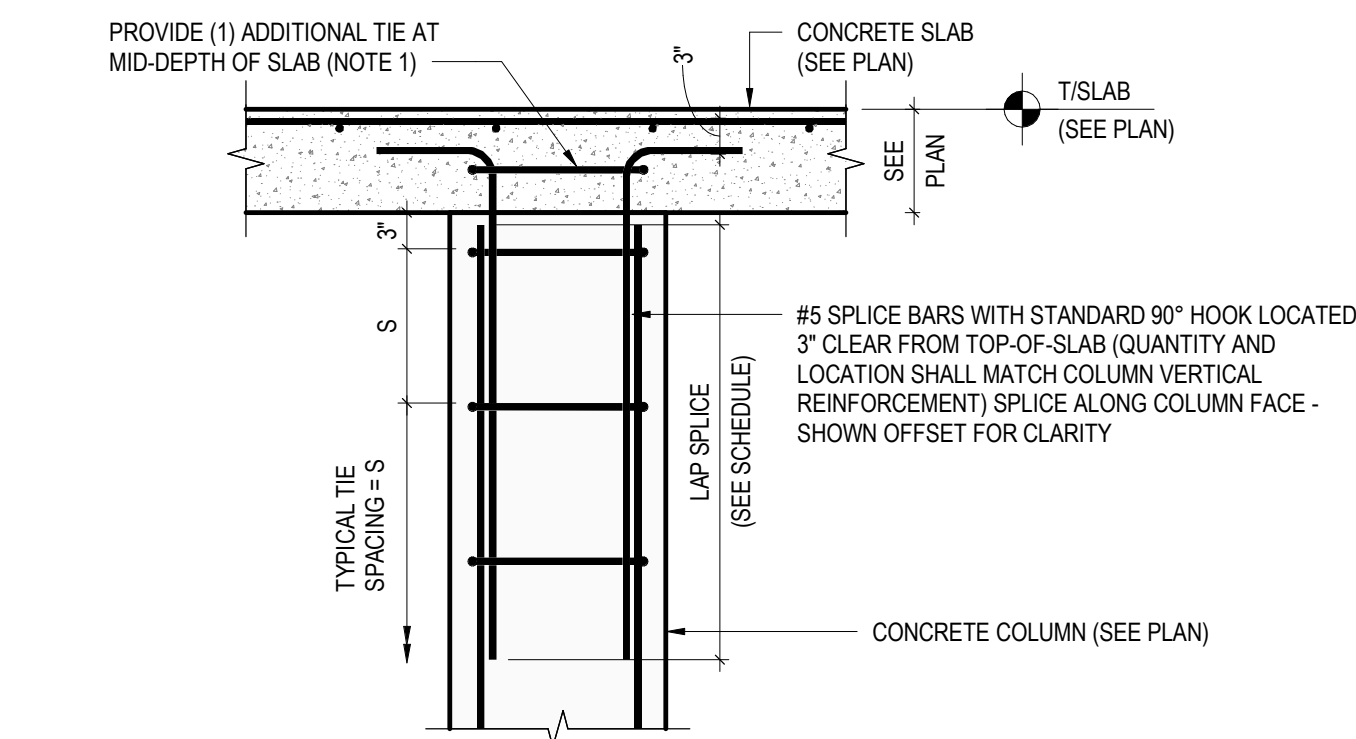
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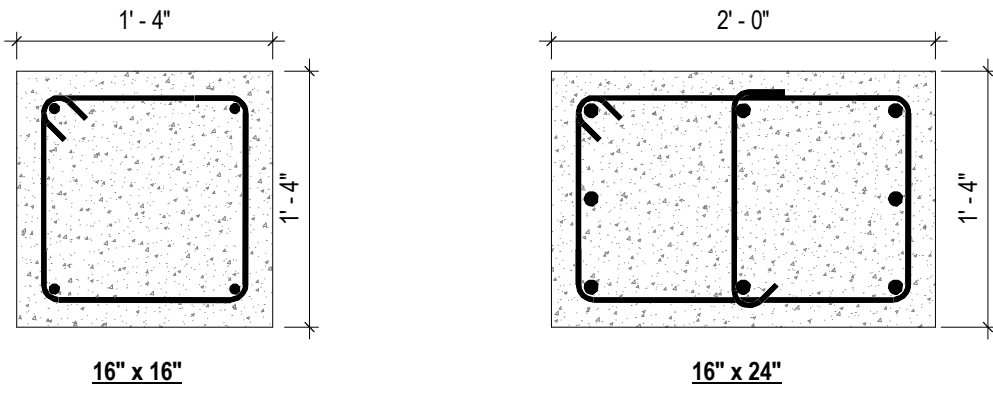
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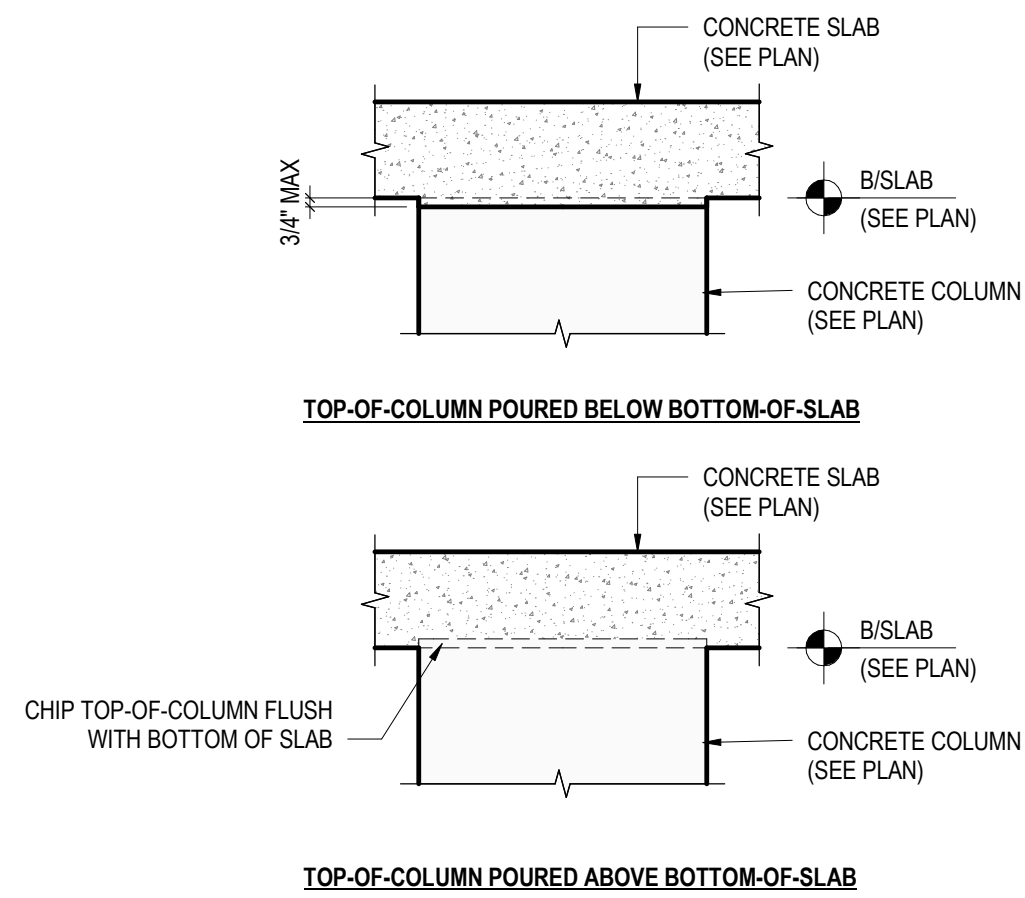
Autodesk Docs://The Waterford (Stage 2)/2021009\_WCR\_MC-AL-BLDG\_STRUCT\_R24.rvt



NOTES:  
1. ADDITIONAL TIE WITHIN SLAB DEPTH NOT REQUIRED WHEN A BOTTOM MAT OF SLAB REINFORCEMENT IS PRESENT AT COLUMN LOCATION



STRUCTURAL COLUMN SCHEDULE					
Type	GEOMETRY		REINFORCING		REMARKS
	WIDTH	DEPTH	VERTICAL	TIES	
CC1816	16"	16"	(4) #8	#3 @ 14" OC	
CC1824	16"	24"	(8) #7	#3 @ 14" OC	



NOTES:  
1. DEVIATION FROM MAXIMUM TOLERANCES SHOWN ABOVE SHALL BE CORRECTED PRIOR TO PLACEMENT OF CONCRETE SLAB. WHEN TOP-OF-COLUMN IS INSTALLED BELOW BOTTOM-OF-SLAB BY MORE THAN THE TOLERANCE SHOWN ABOVE, THE DIFFERENCE SHALL BE POURED CONCRETE WITH STRENGTH EQUAL TO THE REQUIRED COLUMN STRENGTH.

### TOP-OF-COLUMN ELEVATION TOLERANCE

### 1C CONCRETE COLUMN AT ROOF

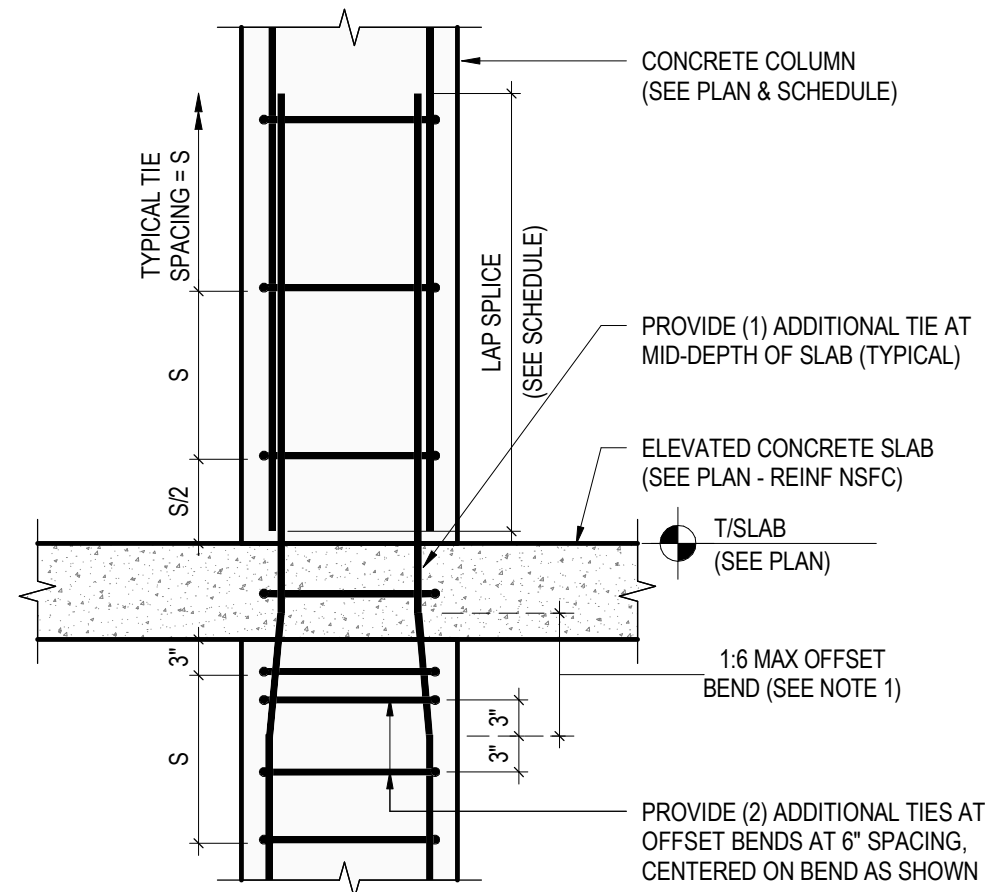
3/4" = 1'-0"

### 2 COLUMN PLAN DETAILS

1" = 1'-0"

### 3 TOP-OF-COLUMN ELEVATION TOLERANCE

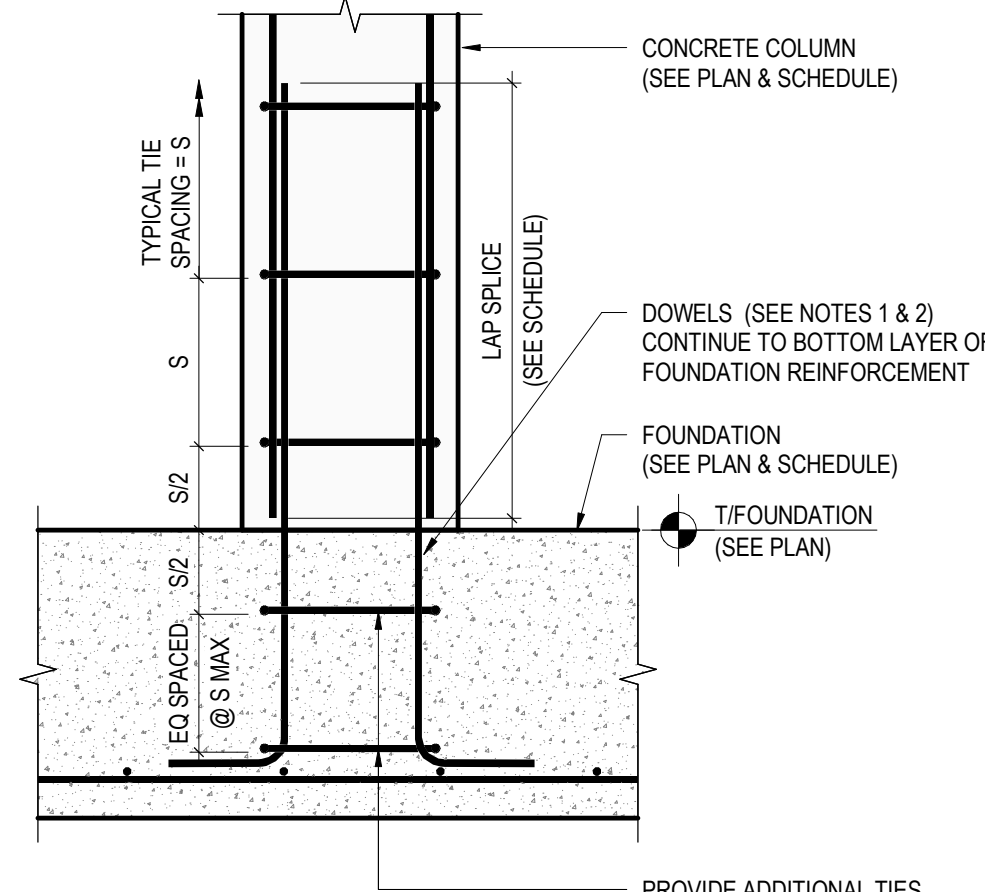
3/4" = 1'-0"



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

### 1B CONCRETE COLUMN AT SLAB

3/4" = 1'-0"



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

### 1A CONCRETE COLUMN AT FOUNDATION

3/4" = 1'-0"

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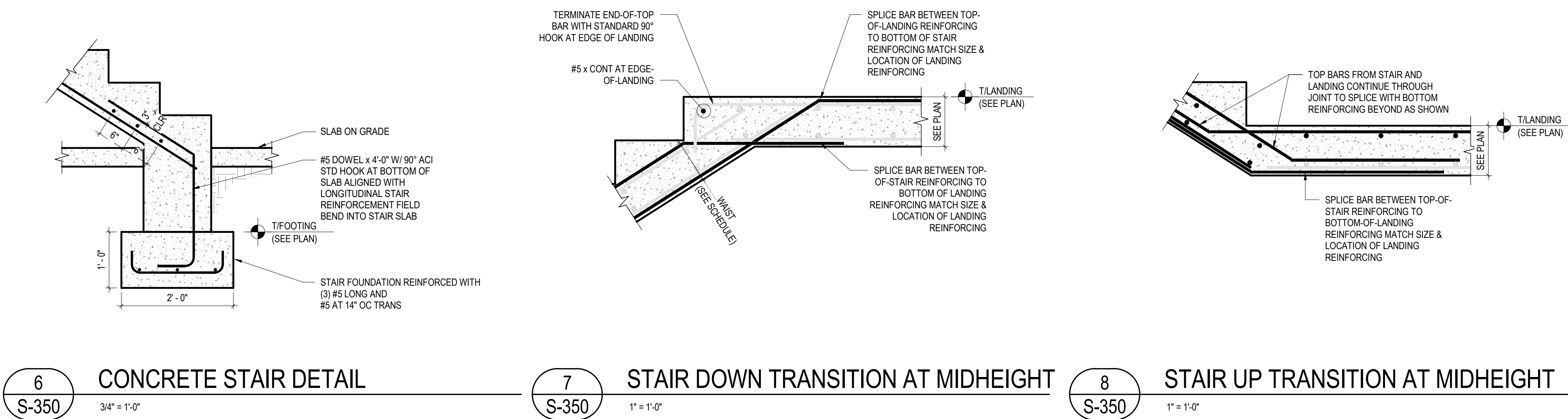
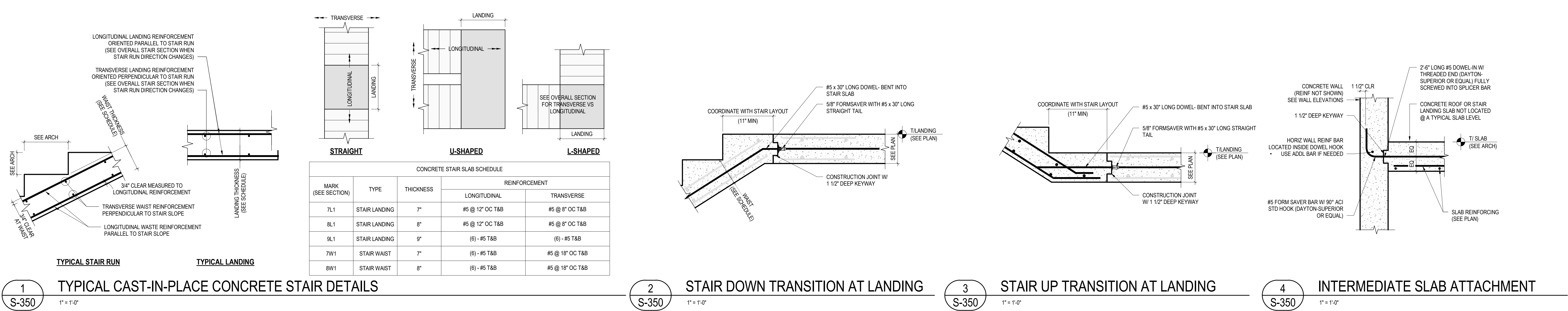
**TYPICAL  
CONCRETE  
COLUMN  
DETAILS**

**S-340**

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CONCRETE  
STAIR  
DETAILS

S-350



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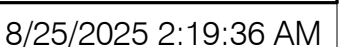
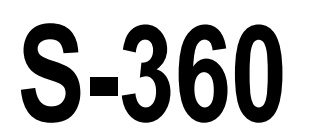
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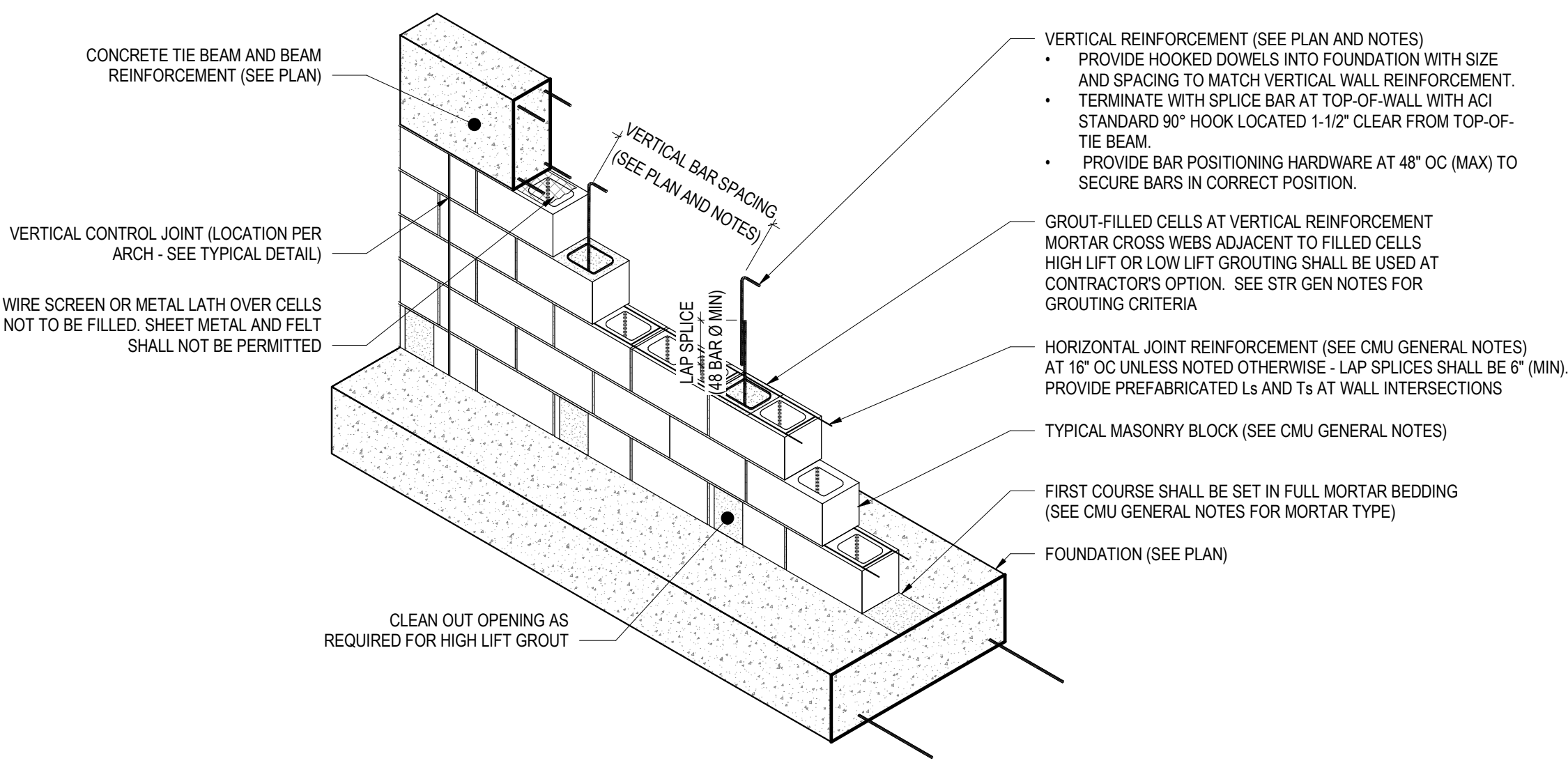




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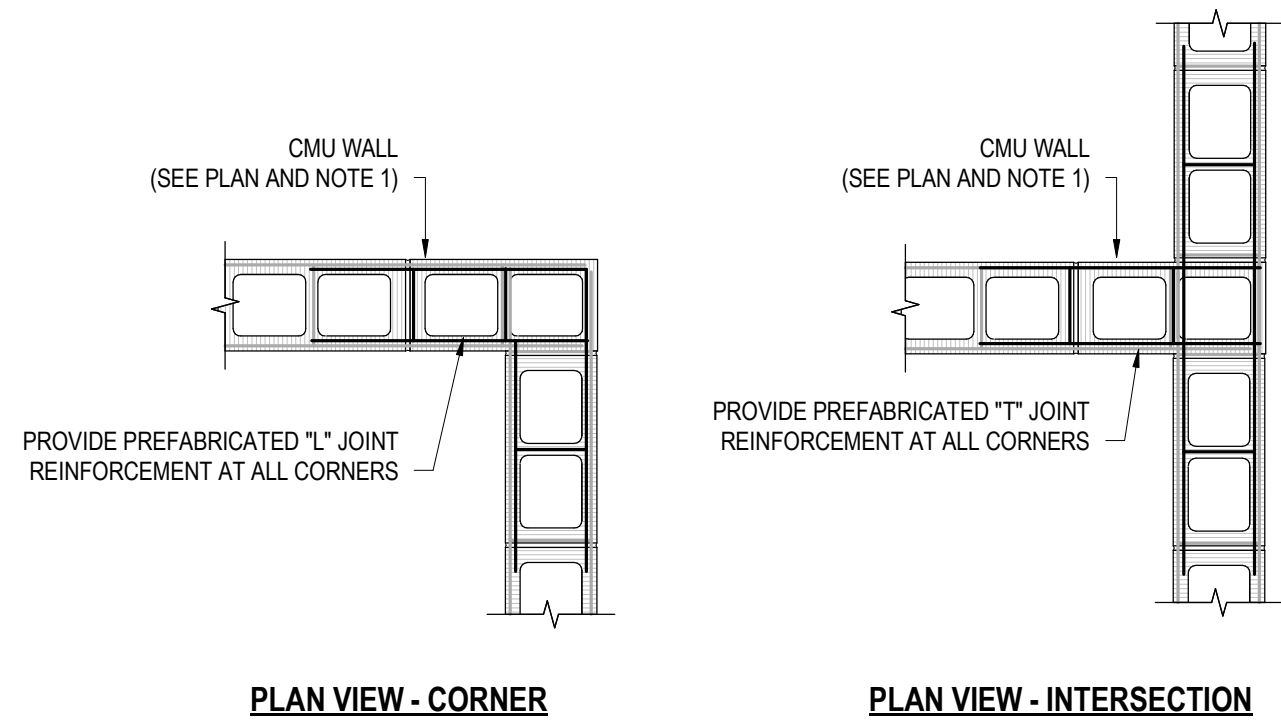




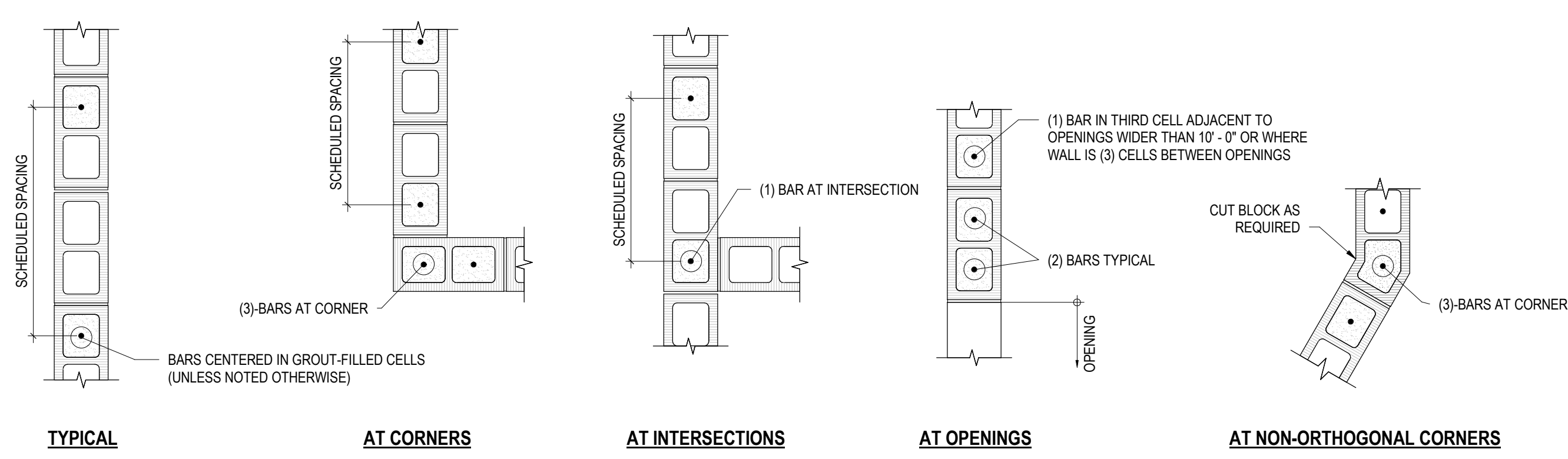


1  
S-400  
1/2" = 1'-0"

TYPICAL CMU WALL CONSTRUCTION - PERSPECTIVE



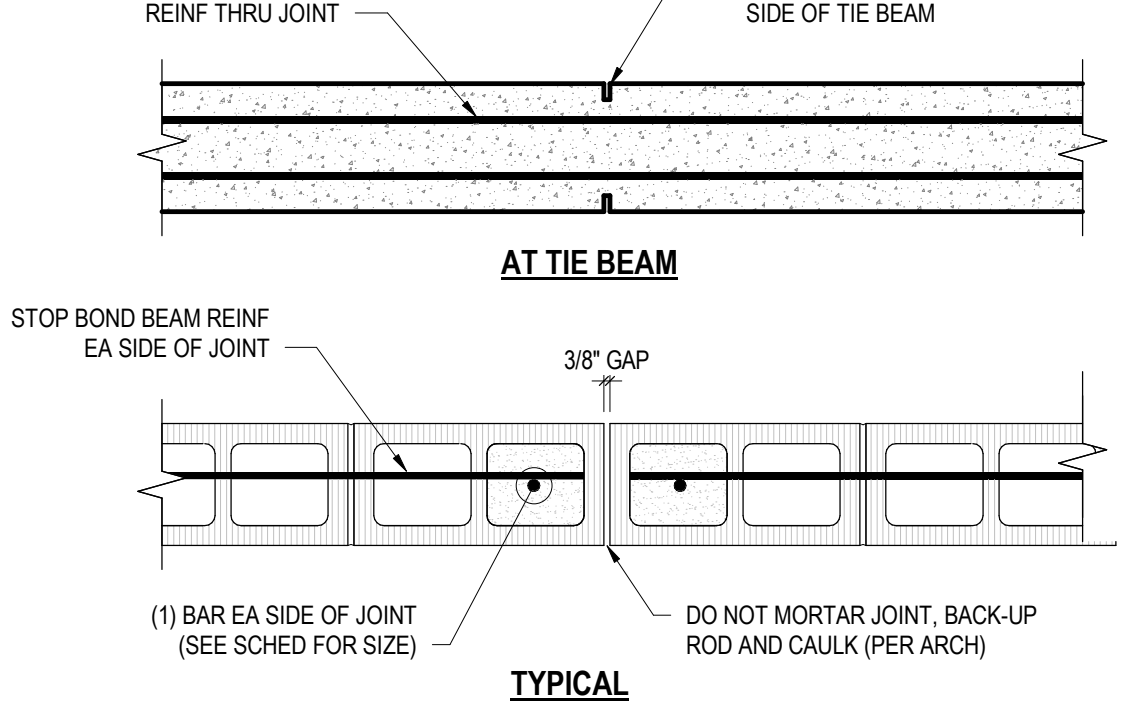
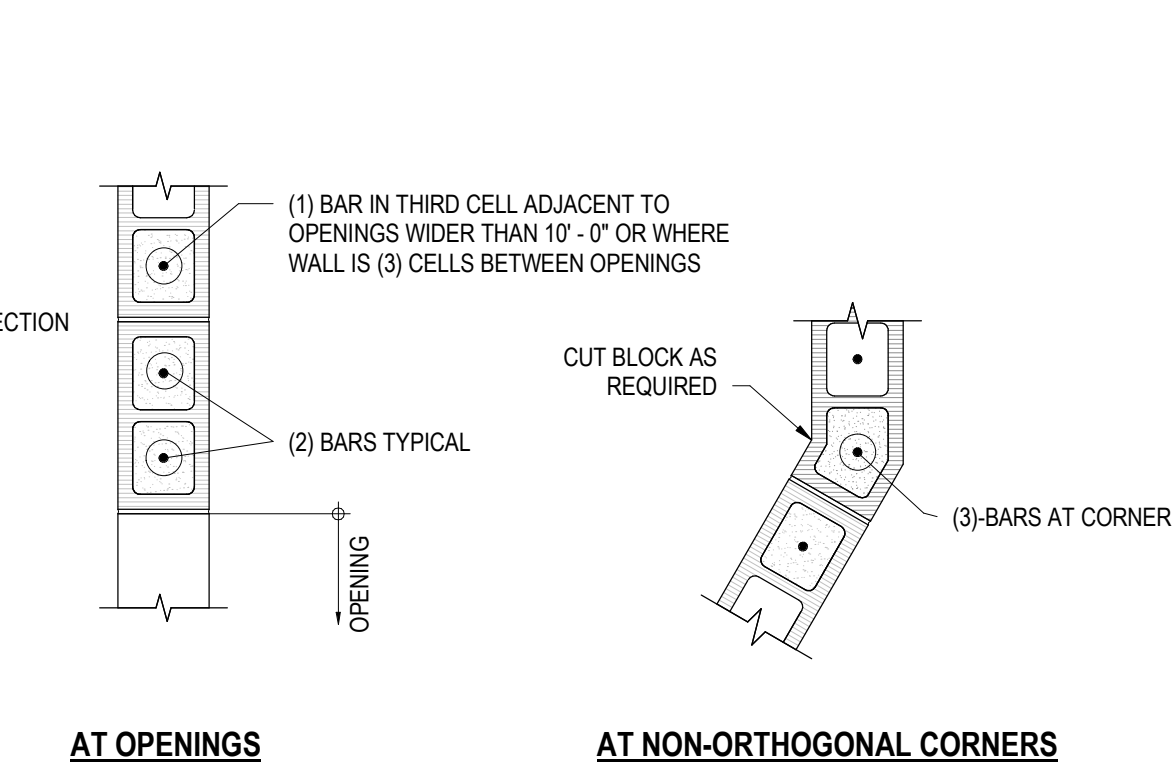
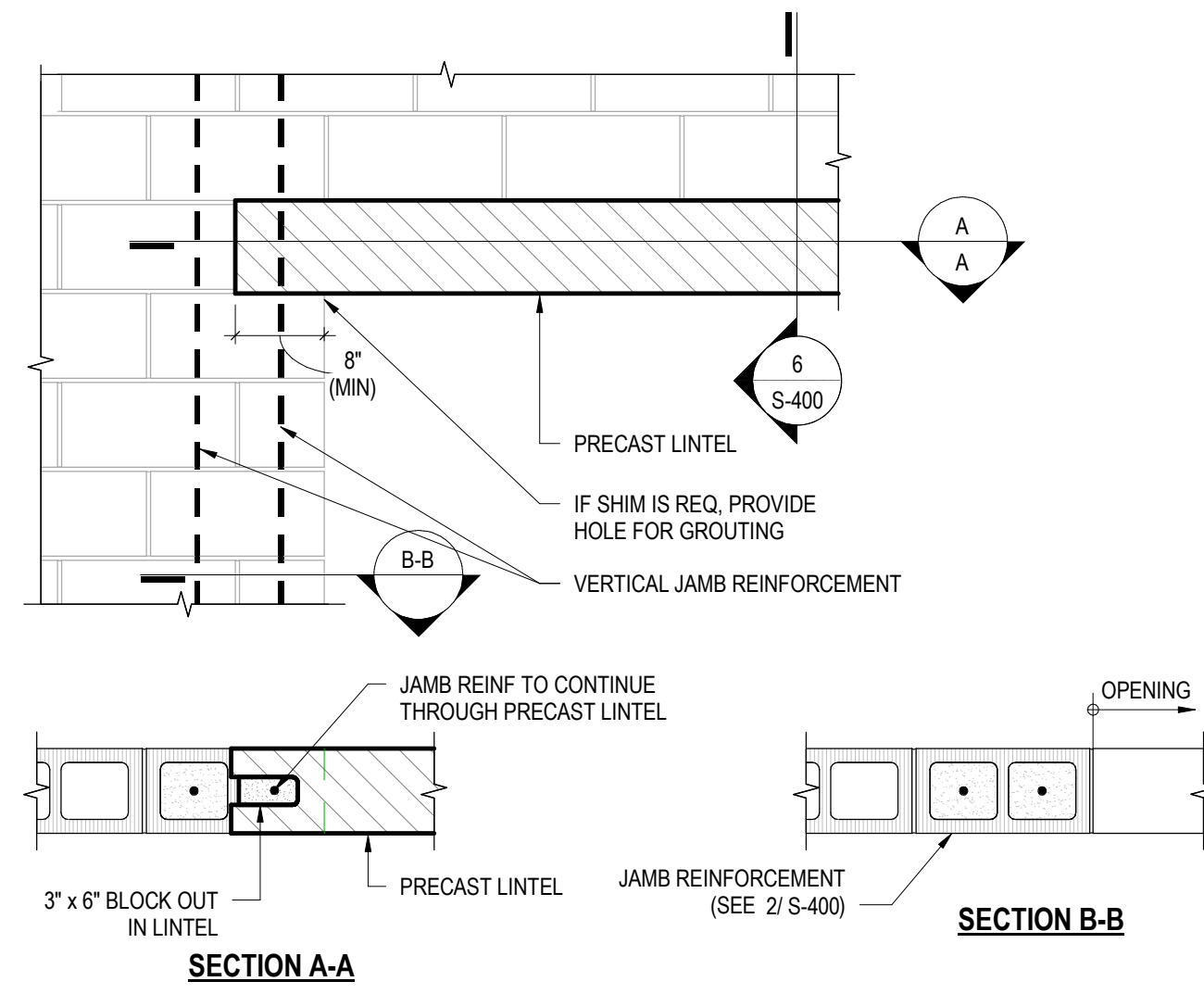
NOTES:  
1. VERTICAL REINFORCEMENT AND GROUTED CELLS NOT SHOWN ON THIS DETAIL - SEE TYPICAL DETAIL.



NOTES:  
1. HORIZONTAL JOINT REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "MASONRY NOTES" FOR JOINT REINFORCEMENT, INCLUDING PREFABRICATED CORNERS AND TEES.  
2. BUILD ALL INTERSECTIONS AND CORNERS IN RUNNING BOND.

2  
S-400  
3/4" = 1'-0"

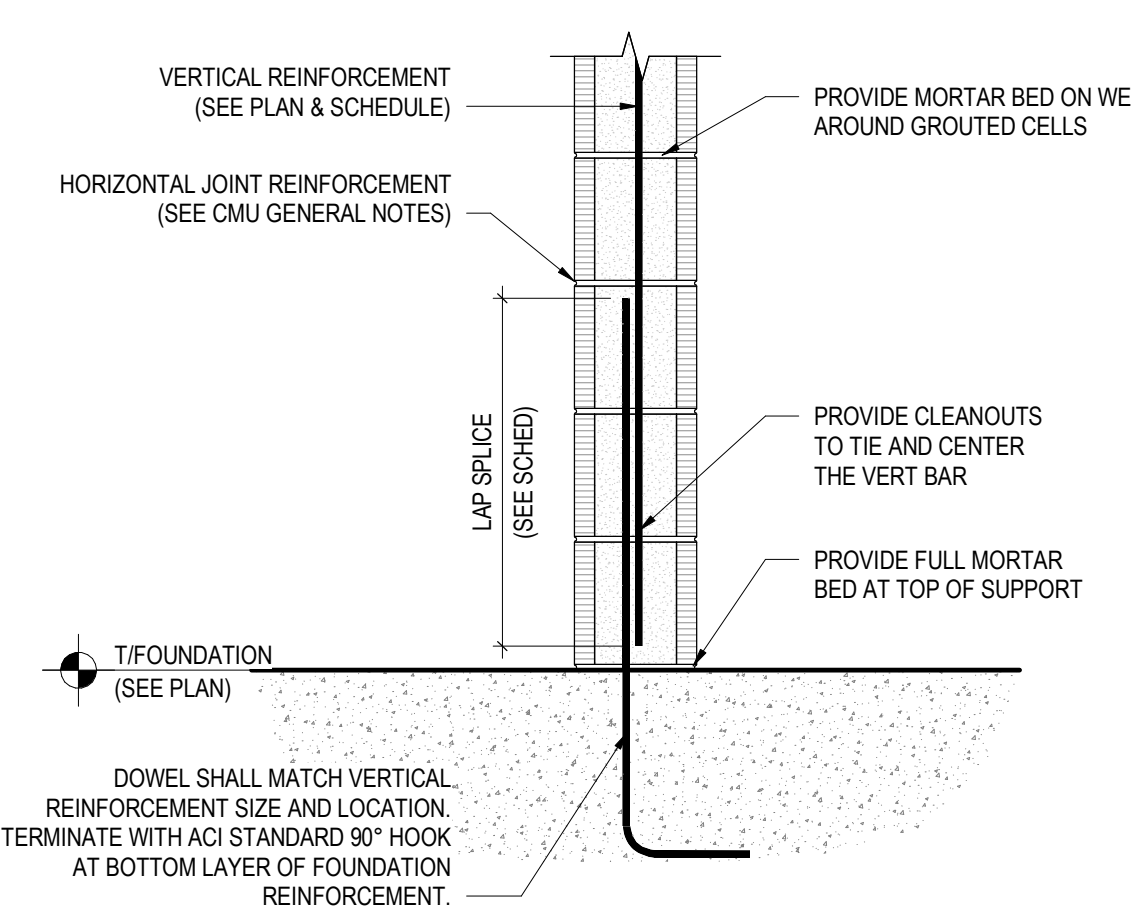
TYPICAL CMU WALL REINFORCEMENT



NOTES:  
1. CONTROL JOINTS SHALL BE LOCATED PER ARCHITECTURAL DRAWINGS AND SHALL MATCH VENER CONTROL JOINTS WHERE APPLICABLE.  
2. CONTROL JOINTS SHALL NOT BE LOCATED THROUGH OPENINGS OR LINTEL BEARINGS LENGTHS EACH SIDE OF OPENINGS UNLESS SPECIFICALLY NOTED OTHERWISE.  
3. WHERE NOT EXPLICITLY NOTED OR SHOWN OTHERWISE, LOCATE CONTROL JOINTS AS FOLLOWS:  
• SPACING NOT TO EXCEED 20'-0" IN CONTINUOUS WALLS  
• LOCATED NOT FURTHER THAN 10'-0" FROM WALL CORNERS  
• AT LOCATIONS WHERE WALL HEIGHT CHANGES  
• AT LOCATIONS WHERE WALL THICKNESS CHANGES  
4. GC SHALL SUBMIT SHOP DRAWINGS OF CONTROL JOINT LAYOUTS PRIOR TO OR ALONG WITH FOUNDATION REBAR SHOP DRAWINGS FOR APPROPRIATE COORDINATION WITH DOWEL PLACEMENT.

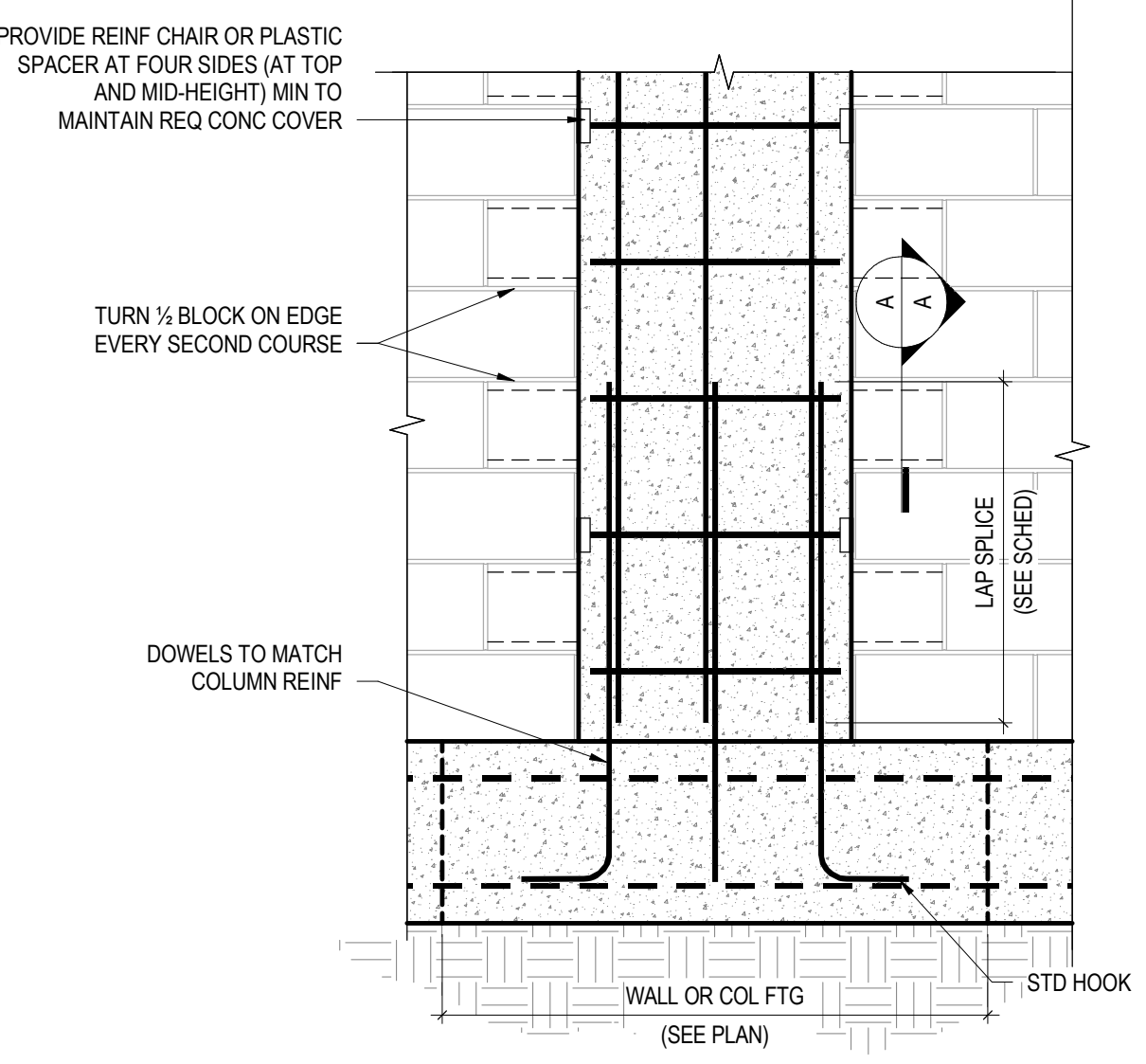
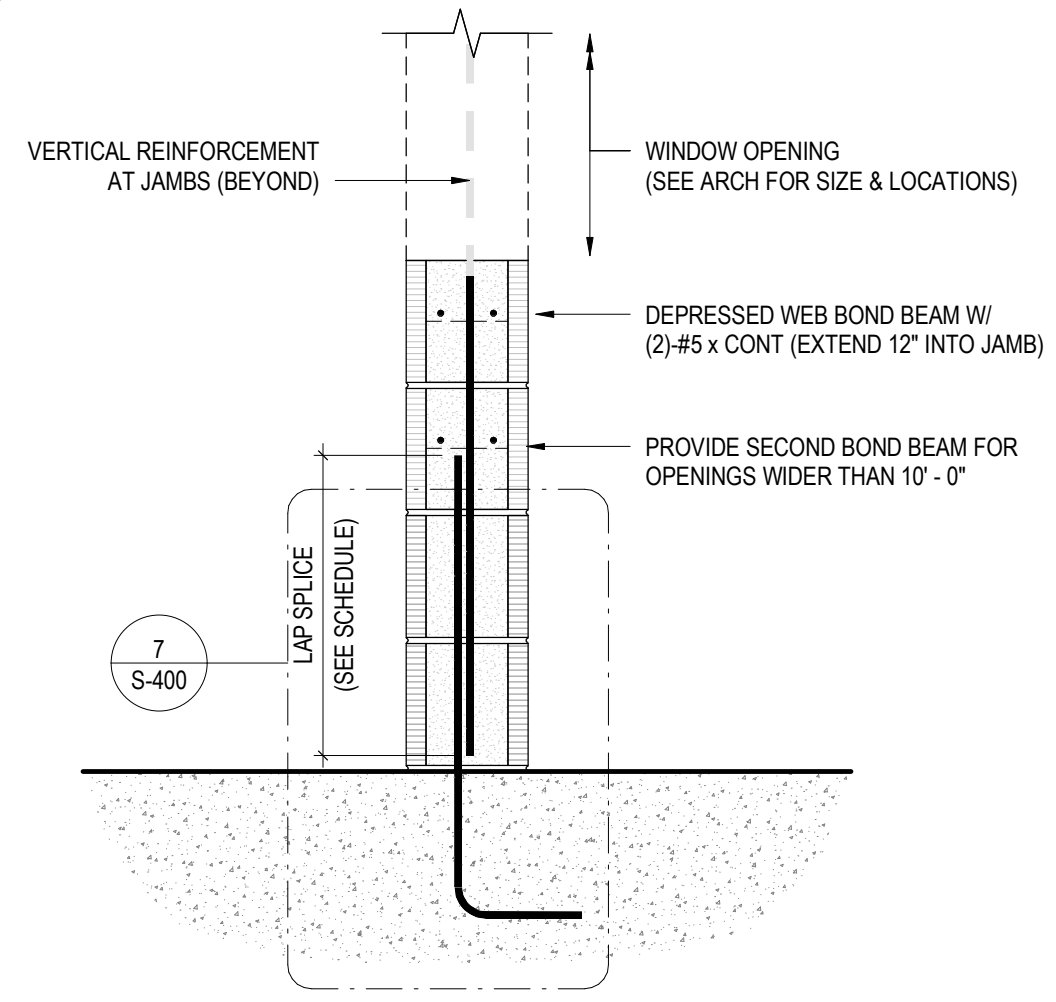
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S-400  
1" = 1'-0"

CMU CONTROL JOINTS



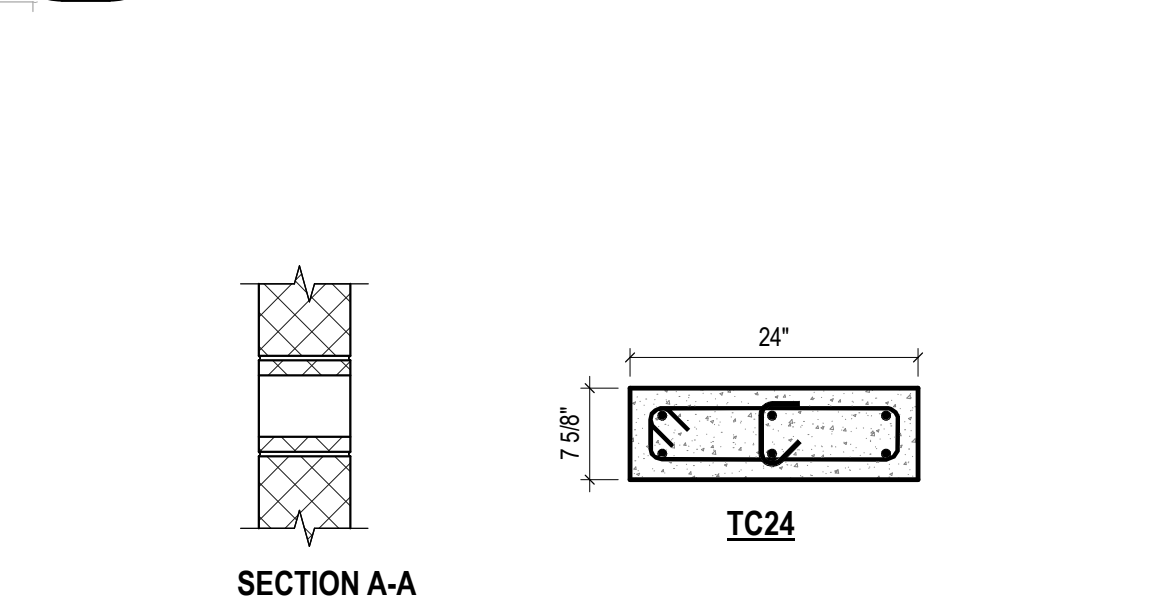
4  
S-400  
3/4" = 1'-0"

TYPICAL CMU JOINT REINFORCEMENT



5  
S-400  
3/4" = 1'-0"

CMU PRECAST LINTEL

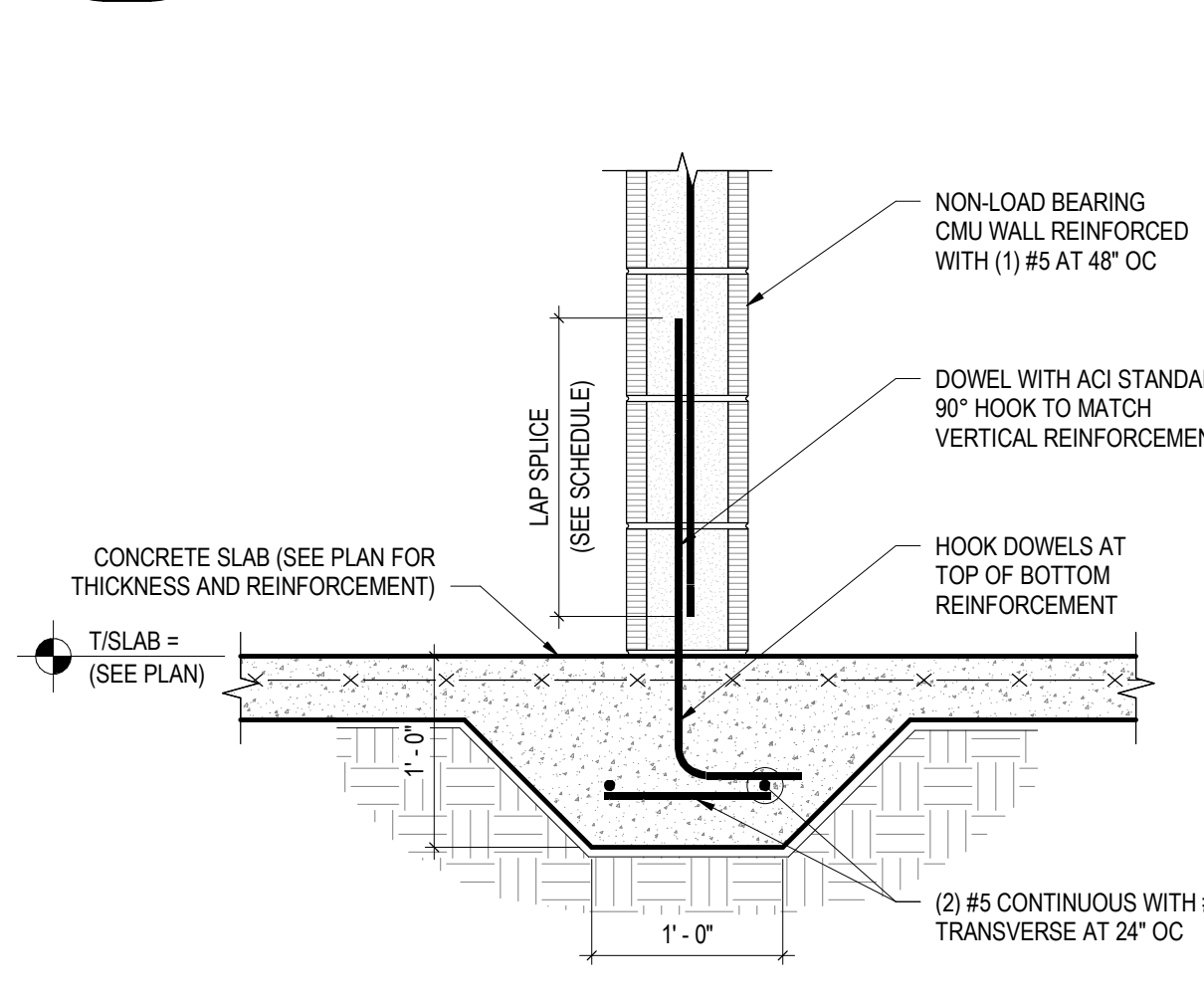


CONCRETE TIE-COLUMN SCHEDULE					
MARK	GEOMETRY	DEPTH	REINFORCING	TIE	REMARKS
TC24	8"	24"	VERTICAL (6) #6	#3 @ 8" OC	

NOTE:  
1. EXTEND COLUMN TO UPPERMOST TIE BEAM AND TERMINATE VERTICAL REINFORCEMENT WITH STANDARD HOOK 3" FROM TOP OF THE BEAM

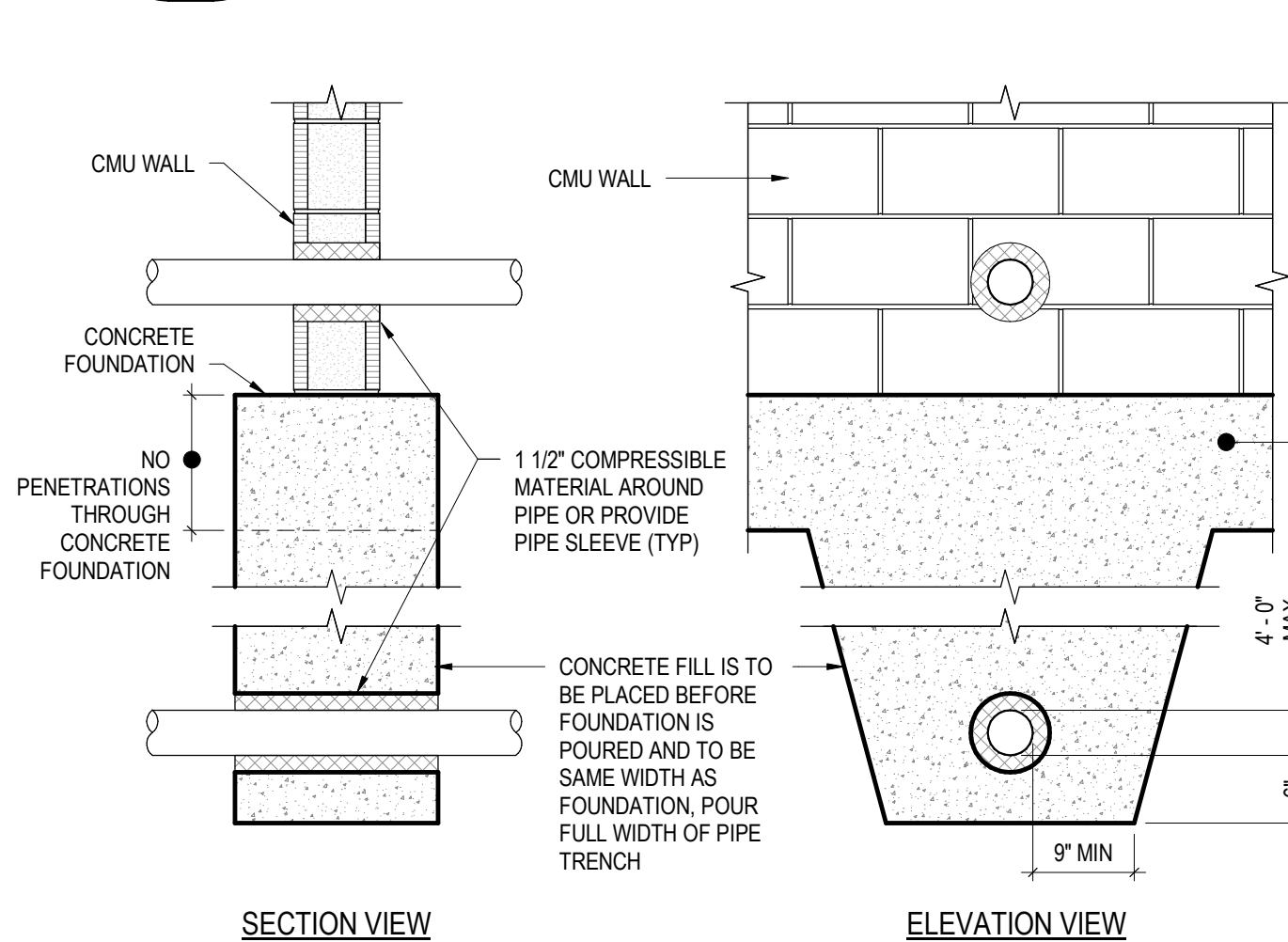
6  
S-400  
1" = 1'-0"

TYPICAL CMU LINTEL AT OPENING



7  
S-400  
1" = 1'-0"

BASE-OF-CMU WALL CONNECTION



8  
S-400  
1" = 1'-0"

CMU SILL - SECTION



9  
S-400  
3/4" = 1'-0"

TYPICAL CONCRETE TIE COLUMN



10  
S-400  
1" = 1'-0"

THICKENED SLAB AT CMU WALL



11  
S-400  
3/4" = 1'-0"

PIPE PENETRATION THROUGH WALL OR BELOW FOUNDATION



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TYPICAL  
MASONRY  
DETAILS

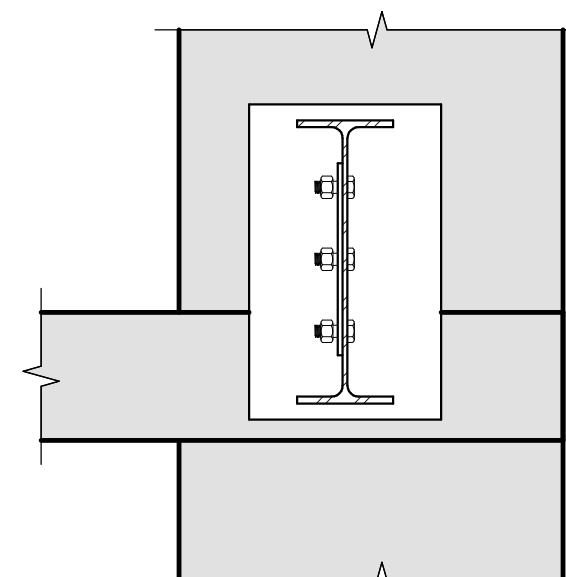
S-400

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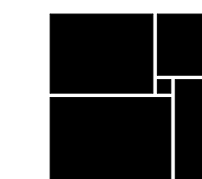




3 CONNECTION AT PORTE COCHERE  
S-500 1" = 1'-0"

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## STEEL FRAMING DETAILS

# S-500



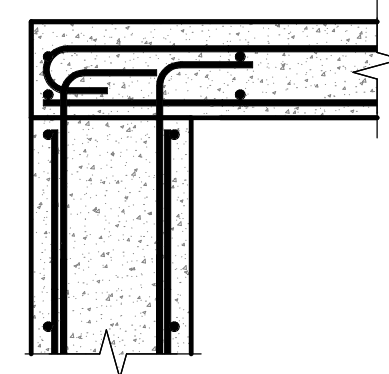
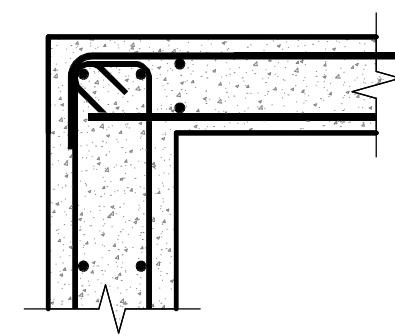
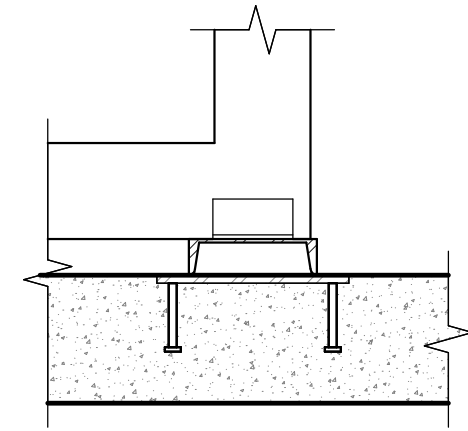
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1  
S-600


## CFS ROOF TRUSS CONNECTION TO SLAB

 $1'' = 1'-0''$ 

2  
S-600

CO  
1" = 1'-0"

## ELEVATOR POP-UP CAP-TO-BEAM CONNECTION

 $1'' = 1'-0''$ 

WA  
1" = 1'-0"

## ELEVATOR POP-UP CAP CONNECTION TO WALL

$$1^* = 1'-0$$

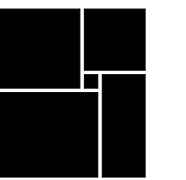

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## ROOF FRAMING DETAILS

# S-600