

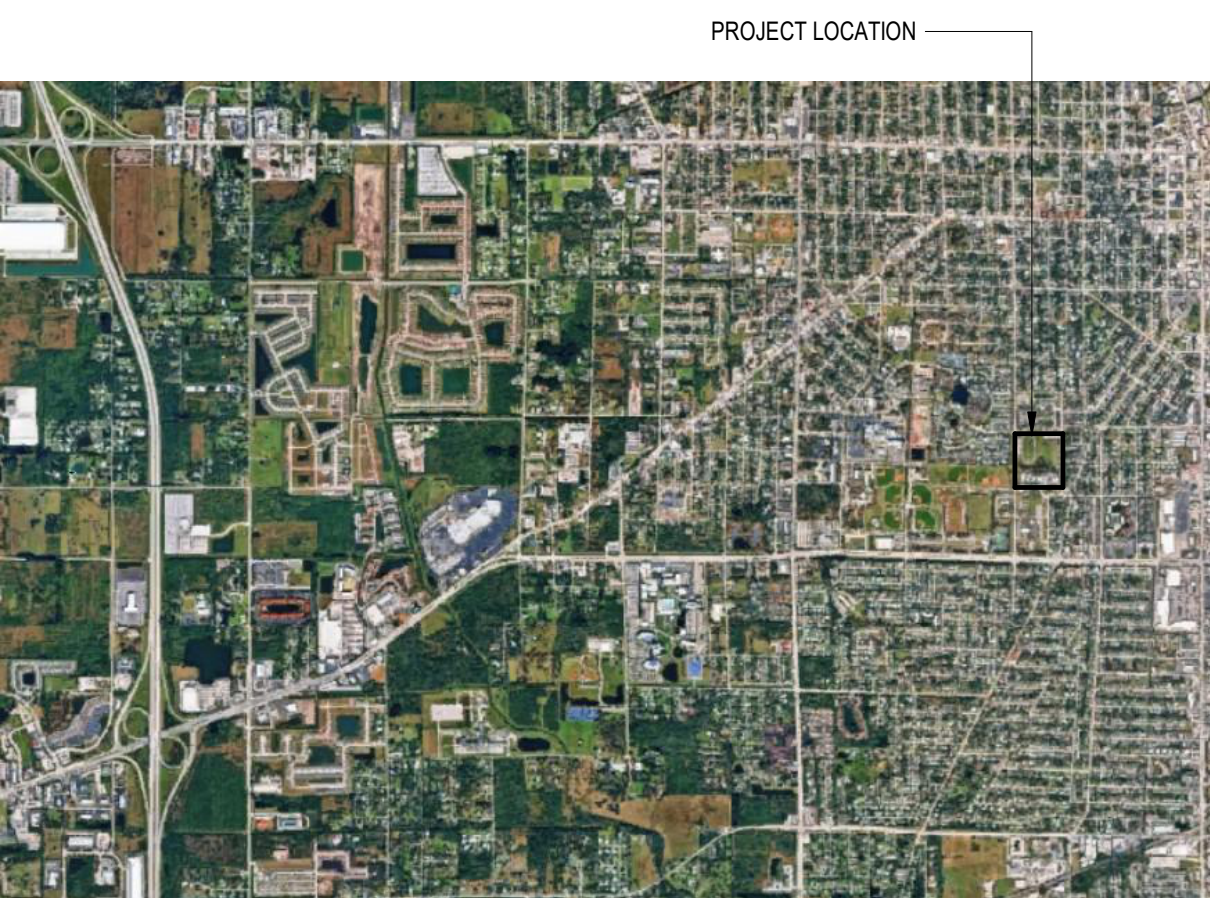
ST. LUCIE GREEN ZONE K-8 SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL 34950

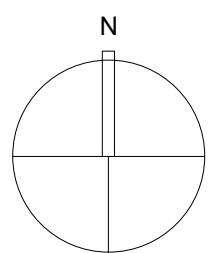
FOR

ST. LUCIE SCHOOL DISTRICT

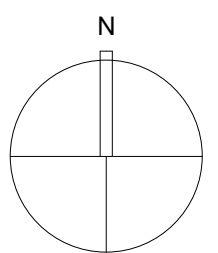
9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986



2 AREA MAP
NOT TO SCALE



3 VICINITY MAP
NOT TO SCALE



TRC WORLDWIDE ENGINEERING
STRUCTURAL ENGINEERS

CMTA
M / P / FP ENGINEERS

CULPEPPER & TERPENING INC.
CIVIL ENGINEERS



SPIEZLE ARCHITECTURAL GROUP, INC
80 ROYAL PALM POINT
SUITE 404
VERO BEACH, FL 32960
Phone: 866.974.7666 Fax: 866.256.4664
www.spiezle.com

CODE SUBMISSION: 08/26/2026
BID DATE: 08/26/2026

PEAK SYSTEMS ENGINEERING
A SPIEZLE ARCHITECTURAL GROUP INC COMPANY
ELECTRICAL ENGINEERS

LUCIDO & ASSOCIATES
LANDSCAPE ARCHITECTURE

SIEBEIN ASSOCIATES, INC
ACOUSTIC ENGINEERING

ST. LUCIE GREEN ZONE K-8
SCHOOL

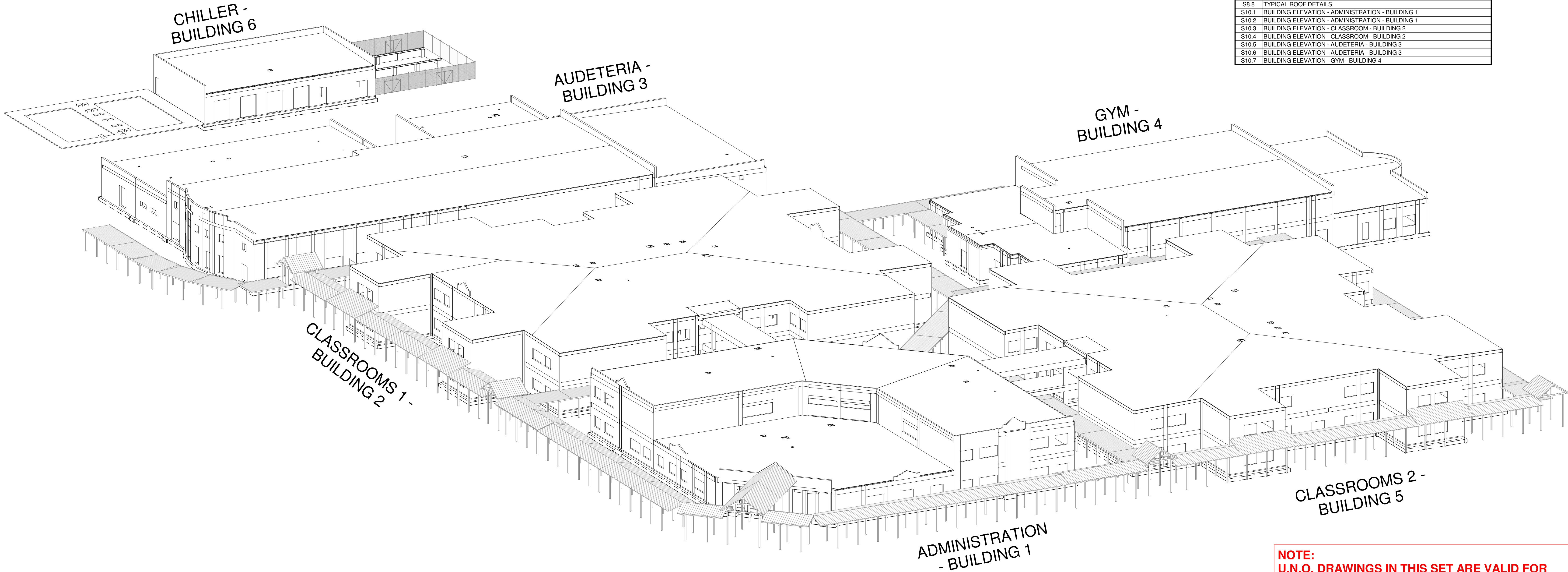
26K014

DRAWING NUMBER:

G.1

Bid Package 3 - Early Footing and CMU - 6/30/2026

3"=1'-0"
1"=1'-0"
1 1/2"=1'-0"
1"=1'-0"
3/4"=1'-0"
3/4"=1'-0"
1/2"=1'-0"
1/2"=1'-0"
1/4"=1'-0"
1/4"=1'-0"
1/8"=1'-0"
1/8"=1'-0"
1/16"=1'-0"



1 ISOMETRIC VIEW

ISOMETRIC VIEW IS A GRAPHICAL REPRESENTATION ONLY AND SHALL NOT BE USED FOR CONSTRUCTION PURPOSES

SHEET INDEX	
SHT #	DESCRIPTION
S0.0	ISOMETRIC VIEW
S0.1	STRUCTURAL NOTES
S0.2	STRUCTURAL NOTES & ABBREVIATION
S0.4	COMPONENTS AND CLADDING DIAGRAM - ADMINISTRATION - BUILDING 1
S0.5	COMPONENTS AND CLADDING DIAGRAM - ADMINISTRATION - BUILDING 1
S0.6	COMPONENTS AND CLADDING DIAGRAM - CLASSROOMS 1 & 2 - BUILDING 2 & 5
S0.7	COMPONENTS AND CLADDING DIAGRAM - CLASSROOMS 1 & 2 - BUILDING 2 & 5
S0.8	COMPONENTS AND CLADDING DIAGRAM - AUDETERIA - BUILDING 3
S0.9	COMPONENTS AND CLADDING DIAGRAM - AUDETERIA - BUILDING 3
S0.10	COMPONENTS AND CLADDING DIAGRAM - GYM - BUILDING 4
S0.11	COMPONENTS AND CLADDING DIAGRAM - GYM - BUILDING 4
S0.12	COMPONENTS AND CLADDING DIAGRAM - CHILLER - BUILDING 6
S0.13	GRAVITY LOADING PLAN- ADMINISTRATION - BUILDING 1
S0.14	GRAVITY LOADING PLAN- CLASSROOMS 1 - BUILDING 2
S0.15	GRAVITY LOADING PLAN- CLASSROOMS 2 - BUILDING 5
S0.16	GRAVITY LOADING PLAN- BUILDING 3, 4 & 6
S1.1	FOUNDATION/FIRST FLOOR FRAMING PLAN- ADMINISTRATION - BUILDING 1
S1.2	SECOND FLOOR FRAMING PLAN - ADMINISTRATION - BUILDING 1
S1.3	ROOF FRAMING PLAN - ADMINISTRATION - BUILDING 1
S2.1	FOUNDATION/FIRST FLOOR FRAMING PLAN- CLASSROOMS 1 - BUILDING 2
S2.2	SECOND FLOOR FRAMING PLAN- CLASSROOMS 1 - BUILDING 2
S2.3	ROOF FRAMING PLAN- CLASSROOMS 1 - BUILDING 2
S3.1	FOUNDATION/FIRST FLOOR FRAMING PLAN- AUDETERIA - BUILDING 3
S3.2	LOW ROOF FRAMING PLAN- AUDETERIA - BUILDING 3
S3.3	HIGH ROOF FRAMING PLAN- AUDETERIA - BUILDING 3
S4.1	FOUNDATION/FIRST FLOOR- GYM - BUILDING 4
S4.2	LOW ROOF FRAMING PLAN - GYM - BUILDING 4
S4.3	HIGH ROOF FRAMING PLAN - GYM - BUILDING 4
S5.1	FOUNDATION/FIRST FLOOR FRAMING PLAN- CLASSROOMS 2 - BUILDING 5
S5.2	SECOND FLOOR FRAMING PLAN- CLASSROOMS 2 - BUILDING 5
S5.3	ROOF FRAMING PLAN- CLASSROOMS 2 - BUILDING 5
S6.1	FOUNDATION/FIRST FLOOR AND ROOF - CHILLER - BUILDING 6
S6.2	BRIDGE OVERALL PLAN
S6.3	BRIDGE OVERALL PLAN
S6.4	WALKWAY CANOPY PLAN
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S7.2	COLUMN SCHEDULES
S8.1	TYPICAL FOUNDATION DETAILS
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S8.5	TYPICAL STEEL DETAILS
S8.6	TYPICAL STEEL DETAILS
S8.7	TYPICAL STEEL DETAILS
S8.8	TYPICAL ROOF DETAILS
S10.1	BUILDING ELEVATION - ADMINISTRATION - BUILDING 1
S10.2	BUILDING ELEVATION - ADMINISTRATION - BUILDING 1
S10.3	BUILDING ELEVATION - CLASSROOM - BUILDING 2
S10.4	BUILDING ELEVATION - CLASSROOM - BUILDING 2
S10.5	BUILDING ELEVATION - AUDETERIA - BUILDING 3
S10.6	BUILDING ELEVATION - AUDETERIA - BUILDING 3
S10.7	BUILDING ELEVATION - GYM - BUILDING 4

NOTE:
U.N.O. DRAWINGS IN THIS SET ARE VALID FOR FOOTINGS, CMU WALLS, TIES COLUMNS, CONCRETE BEAMS AT THE 2ND FLOOR LEVEL, STEEL COLUMNS AND STEEL BEAMS AT 2ND FLOOR BEAMS FOR THE ADMINISTRATION BUILDING, CLASSROOM BUILDINGS 1 AND 2. HOWEVER ,ALL THE INFORMATION IN SHEETS FOR THE ROOF IS SUBJECT TO CHANGE AS DESIGN PROGRESSES.

CODE REVIEW:

CERTIFICATE:



SPIEZLE ARCHITECTURAL GROUP INC.
80 ROYAL PALM POINT
SUITE 404
VERO BEACH, FL 32960
PHONE: 888.974.7666

SEAL & SIGNATURE:

CONSULTANTS:



1230 N. University Dr.
PLANTATION, FL 33322
PHONE: (954) 484-7777
FAX: (954) 484-7834

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Certificate of Authorization No. 35826
TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2026

REVISIONS:

#	REVISION NAME	DATE
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FOR BID:

08/26/2026

DRAWING TITLE:

ISOMETRIC VIEW

COMMISSION NUMBER:

26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.0

STRUCTURAL NOTES

- STRUCTURAL NOTES:**
A. ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF TRC WORLDWIDE ENGINEERING. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF TRC WORLDWIDE ENGINEERING.
- 1010 GENERAL:**
A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, DIMENSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
B. DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
C. WHERE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT RESTRICTIONS AND REQUIREMENTS SHALL GOVERN.
D. PLAN NOTES, DETAILS AND SECTIONS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES. TYPICAL DETAILS AND SECTIONS NOT CUT ON PLANS SHALL APPLY UNLESS NOTED OTHERWISE.
E. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE OF ERECTION OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION COMPLIES WITH OSHA REGULATION INCLUDING DESIGN OF CONNECTIONS OF MEMBERS THAT WILL NOT BE FULLY COMPLETED AT THE TIME OF INSTALLATION.
F. TOWER CRANES ARE A CONTRACTOR RESPONSIBILITY AND SHALL BE DESIGNED FOR APPLICABLE CRITERIA INCLUDING BUT NOT LIMITED TO INSURANCE REQUIREMENTS AND APPLICABLE BUILDING CODES AT THE PROJECT LOCATION. THE CONTRACTOR SHALL SUBMIT A CRANE LAYOUT, SHOP DRAWINGS, CALCULATIONS AND REACTIONS FOR BOTH FOUNDATIONS AND CRANE TIE-IN LOCATIONS, SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER. THE ENGINEER OF RECORD SHALL BE RETAINED BY THE CONTRACTOR TO EVALUATE CRANE TIE-IN FORCES ON THE BUILDING STRUCTURE AND TO PROVIDE CRANE FOUNDATION DESIGN.
- 1011 CONTRACTOR PROPOSED CHANGES AND SUBSTITUTIONS:**
A. PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR REVIEW AND APPROVAL. SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR SUBSTITUTIONS WITH SUPPORTING, SEALED CALCULATIONS (WHERE APPLICABLE), THE RENDAL OF CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR RE-DRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES FOR EOR. EOR IS NOT RESPONSIBLE FOR DETERMINING THE COST EFFECTIVENESS OF PROPOSED CHANGES.
- 1012 CONTRACTOR REQUIRED REMEDIAL WORK:**
A. DESIGN OF REMEDIAL WORK RELATED TO CONSTRUCTION ERRORS, INSTALLATIONS NOT IN CONFORMANCE WITH CONTRACT DOCUMENTS, OR IN ANY WAY BROUGHT ABOUT BY ACTIVITIES OF THE CONTRACTOR, IS NOT WITHIN THE SCOPE OF CONSTRUCTION OR ADMINISTRATION SERVICES PROVIDED BY TRC WORLDWIDE ENGINEERING. THE CONTRACTOR SHALL CARRY IN THEIR BASE BID THE COSTS FOR REACTION WORK ASSOCIATED TRC PROVIDING ADDITIONAL SERVICES IN ENGINEERING TO NON-CONFORMING WORK.
- 1060 DESIGN AND CONSTRUCTION STANDARDS:**
A. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES AND REFERENCED STANDARDS:
(FBC 2023) FLORIDA BUILDING CODE 8th EDITION BY THE INTERNATIONAL CODE COUNCIL, INC
(ADM1-2020) 2020 EDITION OF THE ALUMINUM DESIGN MANUAL
(ACI 318-19) 2019 EDITION OF AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
(AISC 15 ED) FIFTEENTH EDITION OF THE STEEL CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION
(AISI S100-16) NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, WITH SUPPLEMENT 2 (2020)
(ASCE 7-22) MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS
(NDS-18) 2018 EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH 2019 SUPPLEMENT BY AMERICAN FOREST & PAPER ASSOCIATION
(PCI) PCI DESIGN HANDBOOK - PRECAST AND PRESTRESSED CONCRETE 8TH EDITION
(PTI) POST-TENSION MANUAL 6TH EDITION, POST TENSION INSTITUTE
(SDI) STEEL DECK INSTITUTE FLOOR DECK DESIGN MANUAL, (2ND EDITION), FLOOR DECK DESIGN MANUAL (2ND EDITION), AND DIAPHRAGM DESIGN MANUAL, (4TH EDITION)
(SJ1100-15) STANDARD SPECIFICATIONS FOR K-SERIES, LH-SERIES, AND DLH SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS
(TMS 402-2016) BUILDING CODE FOR MASONRY STRUCTURES
B. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE ABOVE REFERENCED CODES AND STANDARDS AND THE FOLLOWING:
(ACI 117-10) SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION MATERIALS
(ACI 301-16) SPECIFICATIONS FOR TOLERANCES FOR STRUCTURAL CONCRETE CONSTRUCTION MATERIALS
(ACI 304R-00) RECOMMENDED PRACTICES FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
(ACI 305R-10) HOT WEATHER CONCRETING
(ACI 306R-16) COLD WEATHER CONCRETING
(ACI 309R-05) GUIDE FOR CONSOLIDATION OF CONCRETE
(ACI 315-18) DETAILS AND DETAILING OF CONCRETE REINFORCING
(MNL-15 (16)) FIELD REFERENCE MANUAL: SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301-16) WITH SELECTED ACI AND ASTM REFERENCES
(AWS D1.1-20) STRUCTURAL WELDING CODE - STEEL
(AWS D1.4-17) STRUCTURAL WELDING CODE - REINFORCING STEEL
(TPI)WTC A BCS-18 (W/ 2020 UPDATES), GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES

- FLOOD LOADS:**
A. FEMA ZONE CATEGORIZATION: X (SHADED) FLOOD DESIGN NOT REQUIRED.
- 1061 DESIGN LOADS:**
A. THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, 8TH EDITION.
B. FOR SUPERIMPOSED DEAD LOADS AND LIVE LOADS SEE SHEETS:

WIND LOADS	EDUCATIONAL BUILDINGS - CLASS ROOM, ADMIN, GYM, AUDITERIA AND CHILLER PLANT	NON EDUCATIONAL STRUCTURES
RISK CATEGORY	III	II
ULT HURRICANE WIND SPEED (3 SECOND GUST)	170 MPH	159 MPH
ASD WIND SPEED (3 SECOND GUST)	132 MPH	123 MPH
TORNADO PLAN AREA	VARIABLES	
TORNADO WIND SPEED	50 MPH	NA
WIND EXPOSURE CATEGORY	C	C
DIRECTIONALITY FACTOR C _d	0.85	0.85
BUILDING CLASSIFICATION	ENCLOSED	CASE TO CASE
INTERNAL PRESSURE COEFFICIENTS	-0.18 / +0.18	CASE TO CASE
TORNADO INTERNAL PRESSURE COEFFICIENTS		
VELOCITY PRESSURE	68 PSF	-
WIND LOAD NOTES: 1. SEE BUILDING'S ROOF UPLIFT PLAN AND WALL WIND LOAD TABLES FOR APPLICABLE PRESSURES.		

- 1120 SHOP DRAWING REVIEW:**
A. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL COMPONENTS SHOWN ON THESE STRUCTURAL CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO:
a. CONCRETE MIXES
b. CONCRETE AND MASONRY REINFORCING
c. STRUCTURAL STEEL AND CONNECTIONS
d. STEEL JOIST
e. STEEL DECK
f. LIGHT GAGE FRAMING
g. WOOD ROOF TRUSS FRAMING
h. NEW PLYWOOD
i. ALL FASTENERS, ANCHORS, BOLTS, EPOXY ADHESIVES
j. WOOD FRAMING CONNECTORS
k. WOOD FRAMING
l. PRESSURE TREATED MATERIAL
m. ALUMINUM SHOP DRAWINGS
n. WELDER QUALIFICATIONS/CERTIFICATIONS FOR STEEL AND ALUMINUM
B. SHOP DRAWINGS SHALL PROVIDE ACCURATE, DETAILED DIMENSIONAL INFORMATION AS WELL AS COMPLETE SHOP AND FIELD ERECTION DETAILS NOT SHOWN ON CONTRACT DOCUMENTS NECESSARY FOR FABRICATION AND INSTALLATION OF COMPONENT.
C. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR'S FIELD ENGINEER PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.
D. SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE OF THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.
E. SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED IN ELECTRONIC PDF FILE FORMAT ONLY.
F. SHOP DRAWINGS SHALL NOT CONTAIN DETAILS COPIED OR REPRODUCED FROM THE CONTRACT DOCUMENTS. REPRODUCTION OF THE CONTRACT DOCUMENTS WILL RESULT IN A REJECTION OF THE SHOP DRAWINGS
G. ELECTRONIC VERSIONS OF STRUCTURAL CONTRACT DOCUMENTS ARE THE SOLE, COPYRIGHTED PROPERTY OF TRC WORLDWIDE ENGINEERING. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF TRC WORLDWIDE ENGINEERING. USERS WILL SIGN A RELEASE AND REIMBURSE TRC WORLDWIDE ENGINEERING, FOR EXPENSES INCURRED IN PREPARING AND TRANSMITTING ELECTRONIC DRAWINGS AT THE RATE TO BE DETERMINED UPON REQUEST.
H. THE CONTRACT DOCUMENTS SHALL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.
I. CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. ENGINEER REVIEW WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL.
J. ELECTRONIC SUBMITTALS OF SHOP DRAWINGS WILL ONLY BE ACCEPTED AND REVIEWED PENDING ABOVE CONDITIONS ARE MET. TRC WORLDWIDE ENGINEERING, WILL ELECTRONICALLY RETURN SUBMITTAL IN PDF FORMAT AND WILL NOT BE RESPONSIBLE FOR PRINTING MULTIPLE COPIES FOR DISTRIBUTION.
- 1121 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS:**
A. THE FOLLOWING SYSTEMS AND COMPONENTS AS A MINIMUM REQUIRE FABRICATION AND ERECTION DRAWINGS PREPARED BY A DESIGNER OR ENGINEER. THE DESIGNER AND ENGINEER SHALL POSSESS CURRENT PROFESSIONAL LICENSURE IN THE JURISDICTION OF THE PROJECT. THE SPECIALTY/DELEGATE ENGINEER SHALL POSSESS AND MAINTAIN A MINIMUM OF \$1,000,000 LIMIT OF PROFESSIONAL LIABILITY INSURANCE.
a. COLD FORMED STEEL FRAMING
b. ALUMINUM WALL SYSTEMS AND STORM PANELS
c. GLAZED CURTAIN WALLS AND STOREFRONT
d. PREFABRICATED STEEL STAIRS AND RAILINGS
e. ARCHITECTURAL PRECAST CONCRETE ELEMENTS
f. STRUCTURAL PRECAST SYSTEMS
g. GLASS FIBER REINFORCED CONCRETE PANEL SYSTEMS
h. ENGINEERED ROOF EQUIPMENT ATTACHMENT DRAWINGS AND CALCULATIONS
i. OPEN WEB STEEL JOISTS
j. STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING
k. TILT WALL ERECTION DRAWINGS
l. COLD FORMED STEEL TRUSS SYSTEMS
m. CANOPY ROOFS
n. ALUMINUM CANOPIES
o. PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES
p. POST-TENSION REINFORCING STRANDS
q. CONCRETE FORMWORK AND LAYOUT DRAWINGS
r. VIBRO-REPLACEMENT STONE COLUMN SOIL IMPROVEMENT
s. SHORING SYSTEMS
B. SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.
- 1121 SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS (CONT):**
C. SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL OR ELECTRONICALLY SIGNED AND SEALED PER FLORIDA RULES), DATE AND SIGNATURE OF THE DELEGATED ENGINEER.
D. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:
a. THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED,
b. THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER,
c. THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE),
d. THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).
E. SUBMITTALS NOT MEETING THE ABOVE CRITERIA WILL NOT BE REVIEWED.

- 1122 REF. REVIEW:**
A. ALL OF CONTRACTOR'S REQUEST(S) FOR INFORMATION (RFI'S) SHALL STATE CONTRACTOR'S SUGGESTION(S) FOR RESOLUTION AND COST IMPLICATIONS FOR SUGGESTION(S). ENGINEER OF RECORD IS NOT RESPONSIBLE FOR DETERMINING COST OR COST EFFECTIVENESS OF RFI RESPONSES.

- 2011 FOUNDATIONS:**
A. SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES:
REPORT NO: AA1 FILE NO. 26-5405
PREPARED BY: ARDAMAN & ASSOCIATES, INC.
TITLED: SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION SLPS GREEN ZONE K-8
DATED: APRIL 6, 2026
THIS REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.

- B. NO APPROVAL OR VERIFICATION OF RECOMMENDATIONS MADE WITHIN THE ABOVE NOTED GEOTECHNICAL REPORT IS IMPLIED THROUGH REFERENCE OR USE BY TRC.
C. A GEOTECHNICAL ENGINEER, LICENSED WITHIN THE JURISDICTION OF THE PROJECT, SHALL VERIFY IN THE FIELD THAT ALL SITE PREPARATION FILL OPERATIONS, BEARING CONDITIONS, FOUNDATION TESTING AND INSTALLATION COMPLY WITH THE SOILS REPORT.

- D. AS PROVIDED BY ABOVE GEOTECHNICAL REPORT, FOUNDATION DESIGN FOR SHALLOW FOUNDATIONS SYSTEMS ARE BASED UPON THE FOLLOWING:
ALLOWABLE SOIL BEARING PRESSURE 2,500 PSF OVER COMPACTED SOIL GEOTECHNICAL REPORTS
SEE GEOTECH REPORT FOR SITE PREPARATION, BOTH TECHNIQUES ABOVE AND OTHER INFORMATION.

- E. FOUNDATION WALLS ARE DESIGNED FOR THE FOLLOWING DESIGN LOADS:

- a. SOIL WEIGHT:..... ## PCF
b. AT-REST PRESSURE: (BRACED AT TOP)..... ## PCF
c. ACTIVE PRESSURE:..... ## PCF
d. PASSIVE PRESSURE:..... ## PCF
e. FRICTION COEFFICIENT:..... ##

- F. SUBGRADE PREPARATION AND VAPOR BARRIER INSTALLATION FOR SLAB-ON-GRADE SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT.

- G. CONCRETE FOR FOOTINGS SHALL BE PLACED IMMEDIATELY AFTER FINAL INSPECTION AND ACCEPTANCE BY THE MECHANICAL ENGINEER. IN NO CASE SHALL FOOTING EXCAVATIONS BE ALLOWED TO STAND OPEN OVERNIGHT OR DURING RAIN.

- 2011 FOUNDATIONS (CONT):**
H. FOUNDATION WALLS WITHOUT CANTILEVERED FOOTINGS SHALL NOT BE BACKFILLED UNTIL SHORED OR PERMANENTLY SUPPORTED AT THE TOP OF WALL.
I. BACKFILLING OF WALLS AND PIERS SHALL BE PLACED SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES. WHERE DESIGN CONDITIONS REQUIRE BACKFILLING EACH SIDE TO UNEQUAL HEIGHTS, WALLS OR PIERS SHALL BE FIRMLY SHORED ON POSITION, AND SHORES SHALL REMAIN UNTIL FLOORS OR OTHER PERMANENT BRACING ELEMENTS ARE PLACED AND PROPERLY SET TO PROVIDE FULL SUPPORT.
J. GRADE SHALL BE SUCH THAT THICKNESS OF FOUNDATION, SLAB ON GRADE, ETC. IS NOT REDUCED BY MORE THAN 5% OF THAT SHOWN ON DRAWINGS.
3101 FORMWORK AND SHORING (CONCRETE SLABS AND BEAMS):
A. NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH (& ALL TENDONS STRESSED FOR PT SLABS). A MINIMUM OF 3 STORES OF SHORING AND (OR) RESHORING SHALL BE USED WHICH SHALL CONSIST OF ONE COMPLETE SET OF VERTICAL SHORES AND TWO SETS OF VERTICAL SHORES THAT COMPRISE AT LEAST 50% OF A COMPLETE SET.
B. DRAWINGS FOR SHORING AND RESHORING SHALL BE PREPARED BY AN ENGINEER LICENSED WITHIN THE JURISDICTION OF THE PROJECT.
C. DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.
D. DESIGN AND SUBMIT A SEALED SHORING DRAWINGS INCLUDING POUR SEQUENCE AND CALCULATIONS, WHERE NECESSARY, TO DEMONSTRATE THAT THE POUR SEQUENCE AND SHORING METHODS DO NOT OVERSTRESS THE STRUCTURE. THE ANALYSIS SHALL INCLUDE STRESSES CAUSED BY SHRINKAGE OF STRUCTURAL SLAB. PROVIDE LOCATION AND DETAILS OF POUR STRIPS IF REQUIRED TO REDUCE SHRINKAGE AND RESTRAINT CRACKS.
E. SHORING INSPECTIONS SHALL BE PERFORMED BY THE SHORING ENGINEER.

- F. UNLESS ARCHITECT SPECIFIES OTHERWISE, CONSTRUCT FORMWORK SO CONCRETE SURFACES CONFORM TO THE TOLERANCE LIMITS OF ACI 117 (STANDARD). SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION MATERIALS), THE CLASS OF SERVICE FOR OFFSET BETWEEN ADJACENT PIECES OF FORMWORK FACING MATERIAL SHALL BE CLASS B FOR SURFACES PERMANENTLY EXPOSED TO PUBLIC VIEW AND CLASS D FOR SURFACES THAT WILL BE PERMANENTLY CONCEALED.

- 3103 PLUMBING SLEEVES AND EMBEDDED CONDUITS:**

- A. LOCATION DRAWINGS FOR ALL SLEEVES AND BLOCKOUTS IN THE CONCRETE SHALL BE SUBMITTED FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.
B. ALL CONDUIT, SLEEVES, AND PIPES EMBEDDED IN OR PASSING THRU CONCRETE SHALL CONFORM TO SECTION 207 OF ACI 318 AND THE FOLLOWING:
a. SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS.
b. MINIMUM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER.
c. SLEEVES OR GROUPS OF SLEEVES 16 INCH IN DIAMETER AND LARGER SHALL BE TREATED AS A SLAB OPENING AND REINFORCED PER TYPICAL OPENING REINFORCING DETAILS.
3103 PLUMBING SLEEVES AND EMBEDDED CONDUITS (CONT):
d. CONDUIT AND PIPES PLACED WITHIN SLABS, BEAMS, WALLS AND TOPPING OVER SLABS SHALL OCCUPY ONLY THE MIDDLE ONE-THIRD OF THE MEMBER DEPTH OR THICKNESS. MAXIMUM CONDUIT O.D. FOR SINGLE CONDUITS OR SUM OF O.D.'S FOR MULTIPLE CONDUITS THAT CROSS SHALL BE NO LARGER THAN ONE THIRD THE MEMBER DEPTH. PARALLEL CONDUITS SHALL BE SPACED WITH A MINIMUM OF 3 DIAMETERS CLEAR. CONDUITS SHALL BE A MINIMUM OF ONE DIAMETER AWAY FROM AND SHALL NOT INTERFERE WITH OR DISPLACE ANY TENDONS OR REINFORCING. CONDUIT SHALL NOT BE TIED TO REINFORCING OR TENDONS. CONDUITS SHALL NOT OCCUR WITHIN TRANSFER GIRDERS OR COLUMN ZONES OF SLABS.
e. CONDUITS AND PIPES PLACED IN COLUMNS SHALL NOT DISPLACE MORE THAN 4% OF THE CROSS SECTIONAL AREA OF COLUMN AND SHALL BE LOCATED ON THE CENTER LINE OF COLUMN. IF THE FINISHING IS COMPLETED OR SHALL BE APPROVED BY THE ENGINEER, SHALL NOT DISPLACE REINFORCING AND SHALL NOT BE DEEPER THAN REQUIRED CLEARANCE FOR REINF.

- 3104 CONSTRUCTION JOINTS AND CONTROL JOINTS:**

- A. CONSTRUCTION JOINTS AND CONTROL JOINTS SHALL BE LOCATED AS SHOWN IN PLAN OR SECTION.
B. UNLESS NOTED OTHERWISE, CONTROL JOINTS IN SLABS ON GRADE SHALL BE PROVIDED SO THAT THE MAXIMUM DISTANCE BETWEEN JOINTS SHALL BE NO MORE THAN 3 TIMES THE SLAB THICKNESS IN FEET (OR AS SHOWN ON PLANS). SAWCUT CONTROL JOINTS SHALL BE MADE AS SOON AS SLAB WILL SAFELY SUPPORT MEN AND EQUIPMENT AND THE SLAB WILL NOT BE DAMAGED BY EQUIPMENT. ASPECT RATIO (LONGSIDE TO SHORTSIDE OF CONCRETE AREA) SHALL NOT EXCEED 1.5.
C. DEVIATION FROM OR ADDITION TO CONSTRUCTION OR CONTROL JOINT LOCATIONS SHOWN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL AND ARE ACCEPTABLE ONLY AS A CHANGE ORDER THAT WILL INCLUDE ENGINEERING CHARGES BY THE ENGINEER OF RECORD FOR REDESIGN OF THE STRUCTURE AS REQUIRED. SHORING REQUIREMENTS TO IMPLEMENT REVISED CONSTRUCTION JOINTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- 3201 REINFORCING STEEL:**

- A. CONTRACTOR SHALL CARRY AN ALLOWANCE IN THEIR BID FOR SUPPLYING AND ERECTING (5) TONS OF REINFORCING STEEL IN ADDITION TO THAT SHOWN ON PLANS AND WITHIN SECTIONS. DETAIL SCHEDULED TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. THIS ALLOWANCE SHALL BE INCLUSIVE OF ALL NECESSARY REINFORCEMENT ACCESSORIES (CHAIRS, TIES, AND SUPPORTS) REQUIRED FOR A COMPLETE INSTALLATION.
B. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BARS (WELDABLE REINFORCING "DBA") SHALL CONFORM TO ASTM A-708 (GRADE 60), FREE OF OIL, SCALE AND RUST, AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO FABRICATION OF STEEL, AND REINFORCING BAR DETAILING SHALL COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" AND CRSI MANUAL OF STANDARD PRACTICE.

- C. CLAR COVER TO REINFORCING SHALL BE AS INDICATED BELOW, WHERE A SPECIFIC CONDITION IS NOT NOTED, REFER TO ACI REQUIREMENTS FOR COVER:

	TOP	BOTTOM	SIDES/EDGES
FRAMED SLABS ON GRADE.....	1"	2"	NA
FOUNDATION WALL/PILASTER.....	NA	NA	2" EXTERIOR 1 1/2" INTERIOR
SPREAD FOOTING.....	2"	3"	3"
COLUMNS & WALLS.....	NA	NA	2" AGAINST SOIL 1 1/2" TYPICAL
ELEVATED FRAMED SLAB, INTERIOR PT.....	3/4"	3/4"	1"
INTERIOR NON-PT.....	3/4"	3/4"	1"
EXTERIOR PT.....	1"	3/4"	1"
EXTERIOR NON-PT - #5 AND SMALLER.....	1"	1 1/2"	2"
- #6 AND LARGER.....	2"	1 1/2"	2"
BEAMS (INTERIOR).....	1 1/2"	1 1/2"	1 1/2"
(EXTERIOR EXPOSURE).....	2"	1 1/2"	1 1/2"

NOTE: MAXIMUM DEVIATION IN BAR PLACEMENT SHALL BE AS DICTATED BY ACI.

- D. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, ANCHORS, AND INSERTS. UNLESS SHOWN ON STRUCTURAL DRAWINGS NO OPENINGS LARGER THAN 12"x12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ENGINEER PRIOR TO FABRICATION OF STEEL, AND PLACEMENT OF CONCRETE. SEE NOTES ON EMBEDDED ITEMS FOR ADDITIONAL LIMITATIONS.

- E. PROVIDE CONTINUOUS REINFORCING WHERE POSSIBLE. SPLICE ONLY AS SHOWN ON DRAWINGS OR AS APPROVED BY STRUCTURAL ENGINEER. PROVIDE CORNER BARS AT ALL WALL, GRADE-BEAM AND STRIP FOOTING CORNERS. BARS SHALL BE THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING. INTERSECTING WALLS, GRADE BEAMS AND STRIP FOOTINGS SHALL BE DOWELED TOGETHER IN THE SAME MANNER. PROVIDE 2 NO. 4 TOP DIAGONAL BARS 4'-0" LONG AT ALL REINTRANT CORNERS IN ALL SLABS ON GRADE AND ELEVATED SLABS.

- F. SHOP DRAWINGS SHALL ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. SHOP DRAWINGS SHALL INCLUDE ADEQUATE SECTIONS, ELEVATIONS AND DETAILS. WRITTEN DESCRIPTIONS ARE NOT ACCEPTABLE. ALL CONCRETE WALLS SHALL BE DETAILED IN ELEVATION.

- G. SPLICING OF REINFORCING SHALL BE AS SHOWN OR AS INDICATED IN SCHEDULE. MECHANICAL SPLICING DEVICES SHALL DEVELOP 100% OF THE SPECIFIED YIELD STRENGTH (F_y) OF THE BAR. STAGGER MECHANICAL SPLICES WHERE POSSIBLE. ALL STEEL NOTED AS CONTINUOUS SHALL BE A CLASS "B" SPLICE PER SCHEDULE.

- H. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

- I. THE ALL REINFORCING AND EMBEDS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT AND EMBEDS WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.

- J. THE SHOP DRAWINGS FOR REINFORCING STEEL SHALL INCLUDE SCALE ELEVATIONS OF ALL CONCRETE WALLS.

- K. OPENINGS THROUGH CONCRETE WALLS, SLABS OR OTHER STRUCTURAL ELEMENTS NOT DETAILED ON THE STRUCTURAL DRAWINGS MUST BE LOCATED AND SHOWN ON THE APPLICABLE REINFORCING STEEL SHOP DRAWINGS. THE FINAL LOCATION OF ALL OPENINGS MUST BE REVIEWED BY THE A/E BEFORE THE CONCRETE IS POURED.

- 3202 WELDED WIRE REINFORCING:**
A. WELDED WIRE REINFORCING (WWR) SHALL CONFORM TO ASTM A-185, FREE FROM OIL, SCALE, AND RUST, AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES. USE OF FLAT MANUFACTURED SHEETS IS REQUIRED.
B. THE WELDED WIRE REINFORCING IN THE COMPOSITE ELEVATED SLAB SHALL BE SUPPORTED BY PLACING CONTINUOUS HEAVY BOLSTERS @ 2'-6" OC MAXIMUM OVER THE COMPOSITE MOLD DECK.

- C. THE WELDED WIRE REINFORCING IN THE CONCRETE SLAB-ON-GRADE SHALL BE SUPPORTED BY CONTINUOUS #4 SUPPORT BARS @ 2'-6" OC MAXIMUM. THE #4 BARS SHALL BE TIED AND SUPPORTED BY CONCRETE BRICKS OR CHAIRS AS REQUIRED FOR THE CORRECT POSITIONING OF REINFORCING AS SPECIFIED ON THE DRAWINGS (2'-6" OC MAXIMUM).

- 3301 CAST-IN-PLACE CONCRETE:**
A. ALL CAST-IN-PLACE CONCRETE SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:

CONCRETE DESIGN CRITERIA		
MINIMUM 28-DAY COMPRESSIVE STRENGTH	MAXIMUM SLUMP	USED FOR:
3000 PSI	4 (±1")	FOUNDATIONS, SLAB-ON-GRADE & COMPOSITE DECK
4000 PSI	4 (±1")	CONCRETE COLUMNS AND BEAMS

* HIGHER SLUMPS ARE PERMITTED WHEN HIGH RANGE WATER REDUCER (HWRV) ADMIXTURES (SUPER PLASTICIZER) ARE USED PERMITTED ENGINEER OR ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.

- B. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI 301(16) STANDARDS AND SPECIFICATIONS.

- C. PRIOR TO CONCRETE PLACEMENT, MIX DESIGN SHALL BE SUBMITTED AND ACCEPTED BY ENGINEER FOR USE. MIX DESIGN SHALL INCLUDE THE FOLLOWING:

- a. MIX DESIGN WHICH SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER ACI 301, ARTICLE 4.2.3
b. ONLY TYPE II CEMENT SHALL BE USED FOR SLAB-ON-GRADE CONCRETE.
c. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. FAILURE TO COMPLY MAY RESULT IN REJECTION OF THE MIX. IF ACCEPTED, PEAK ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.
d. MIX DESIGN SHALL MEET THE REQUIREMENTS OF ASTM C39 FOR COARSE AGGREGATE.
e. CALCIUM CHLORIDES SHALL NOT BE UTILIZED
f. OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.
g. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING STRUCTURAL DRAWINGS AND SPECIFYING THE USE OF WATER REDUCERS WHERE REINFORCING CONGESTION WARRANTS.

- D. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1 1/2) HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

- E. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY.

- F. WATER/CEMENTITIOUS MATERIAL RATIO FOR CONCRETE BELOW OR AT GRADE AND FOR CONCRETE SUBJECTED TO DEICERS AND/OR SPECIFIED TO BE WATERTIGHT SHALL NOT EXCEED 0.45 BY WEIGHT. MAXIMUM PERMISSIBLE W/C RATIO: 0.50 FOR ALL OTHER CONCRETE.

- G. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED. FOR SURFACE FINISHES AND OTHER REQUIREMENTS, REFER TO THE CONCRETE SPECIFICATIONS.

- H. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, ANCHORS, AND INSERTS. UNLESS SHOWN ON STRUCTURAL DRAWINGS NO OPENINGS LARGER THAN 12"x12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ENGINEER PRIOR TO FABRICATION OF STEEL AND PLACEMENT OF CONCRETE. LOCATION DRAWINGS FOR ALL SLEEVES AND BLOCKOUTS IN THE CONCRETE SHALL BE SUBMITTED FOR APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.

- I. CONCRETE WALLS SHALL BE CAST MONOLITHIC WITH ADJOINING COLUMNS UNLESS SPECIFICALLY NOTED OTHERWISE. CONCRETE FOR SUCH WALLS SHALL BE THE SAME TYPE AND STRENGTH AS SPECIFIED COLUMNS.

- J. CONTRACTOR SHALL CONFORM TO ACI 306R FOR COLD WEATHER CONCRETING AND ACI 306R FOR HOT WEATHER CONCRETING WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. CONCRETE IS TO BE REJECTED IF ITS TEMPERATURE AT TIME OF PLACEMENT IS 90°F OR ABOVE. PROTECT SURFACES OF EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.

- K. CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.

- L. A PRE-CONCRETE CONFERENCE SHALL BE HELD BY THE CONTRACTOR WITH SUBCONTRACTORS, TESTING LAB PERSONNEL, ARCHITECT AND ENGINEERS. THESE CONFERENCES SHALL BE HELD WELL IN ADVANCE OF CONSTRUCTION TO ENSURE PROPER INTERPRETATION OF DESIGN INTENT. STEEL ERECTOR SHALL FIELD VERIFY CORRECTNESS OF FOUNDATION, ANCHOR RODS, OR OTHER EXISTING WORK AFFECTING THE STEEL BEFORE STARTING ERECTION.
M. CONTRACTOR SHALL CARRY AN ALLOWANCE IN THEIR BID FOR THE FURNISHING AND INSTALLING OF ??? CY OF CONCRETE IN ADDITION TO THE QUANTITIES SHOWN ON THE DRAWINGS. THIS ALLOWANCE SHALL BE INCLUSIVE OF ALL NECESSARY REINFORCEMENT ACCESSORIES (CHAIRS, TIES, AND SUPPORTS) REQUIRED FOR A COMPLETE INSTALLATION AND NOTES. THE USE OF THIS ADDITIONAL QUANTITY SHALL BE AT THE SOLE DISCRETION OF THE STRUCTURAL ENGINEER.

- 3302 MASS CONCRETE:**
A. MASS CONCRETE IS ANY CONCRETE CONTINUOUS POUR THAT IS EQUAL TO OR GREATER THAN 5'-0" THICK AND EXCEEDING A VOLUME OF 500 CUBIC YARDS OF CONCRETE, SUCH AS SHEARWALL, PILE CAPS AND MAT FOUNDATIONS.
B. PROPORTION AND DESIGN CONCRETE MIX TO MINIMIZE THE GENERATION OF HEAT OF HYDRATION AND THE THERMAL GRADIENT. COMPLY WITH ACI 207-1R FOR CONCRETE. PROPORTIONING MASS CONCRETE, DESIGN MAY BE BASED ON 56 DAY STRENGTH IN LIEU OF 28 DAY STRENGTH. USE OF UP TO 40% CLASS F FLY ASH BY WEIGHT OF THE TOTAL CEMENTITIOUS CONTENT AND TYPE I CEMENT IS PERMITTED. SUPER-PLASTICIZERS MAY BE USED TO OBTAIN A LOW W/C M RATIO.

- C. SUBMIT A SIGNED AND SEALED "THERMAL CONTROL PLAN" PRODUCED BY A QUALIFIED FIRM THAT PROVIDES PREDICTIONS OF THERMAL DEVELOPMENTS BASED UPON ANALYSIS, PROPOSED TEMPERATURE CONTROLS, AND DETAILS CORRECTIVE ACTIONS. THE ANALYSIS SHALL SHOW THERMAL MODELING THROUGH FINITE ELEMENTS AND BE PERFORMED BASED ON ACI 207 PROCEDURES AND TESTED PROPERTIES OF COMPRESSIVE STRENGTH DEVELOPMENT, HEAT ENERGY, THERMAL EXPANSION, TENSILE STRENGTH, AND ELASTIC MODULUS OF THE CONCRETE MIX DESIGNED FOR THE USE OF THE MASS CONCRETE POUR. THE REPORT SHALL PROVIDE DETAILED PLANS DESCRIBING MEASURES TO BE TAKEN TO CONTROL TEMPERATURE DIFFERENTIAL AND TO PROTECT FROM WIND OR RAIN THROUGH THE USE OF TEMPERATURE CONTROLS SUCH AS INSULATION ON TOP AND SIDES OF MASS CONCRETE POUR. TABLES SHALL BE PROVIDED WHICH INDICATE PREDICTED MAXIMUM CONCRETE TEMPERATURE, MAXIMUM TEMPERATURE DIFFERENTIAL, DAYS REQUIRED TO REACH MAXIMUM TEMPERATURE DIFFERENTIAL, AND DAYS REQUIRED TO MONITOR TEMPERATURE AND CONTROL TEMPERATURE FOR VARIOUS AVERAGE AMBIENT AIR TEMPERATURES. CONCRETE THICKNESSES, DELIVERED CONCRETE TEMPERATURES, AND REQUIRED R-VALUES OF INSULATION. THE REPORT SHALL INDICATE PROPOSED LOCATIONS OF THERMOCOUPLES BASED ON CALCULATED "HOT SPOTS" OF CONCRETE SO THAT THE MAXIMUM TEMPERATURE AND TEMPERATURE DIFFERENTIAL CAN BE FIELD VERIFIED WITH ACCURACY. ONE EXTRA REDUNDANT SENSOR SHALL BE USED AT EACH LOCATION IN CASE THE SENSORS ARE DAMAGED. THE MAXIMUM PERMISSIBLE TEMPERATURE DIFFERENTIAL BETWEEN THE TOP SURFACE AND INTERIOR SHALL BE ESTABLISHED BASED UPON CONCRETE STRENGTH AND RESTRAINT SO THAT CRACKING CAN BE AVOIDED. A GRAPH OF MAXIMUM TEMPERATURE DIFFERENTIAL VERSUS THE CONCRETE STRENGTH SHALL BE PROVIDED IN THE REPORT. DIFFERENTIAL TEMPERATURES ABOVE THIS MAXIMUM WILL LIKELY CAUSE THERMAL CRACKS WITHIN THE CONCRETE MASS.

- D. THE MIX TEMPERATURE AS MEASURED AT DISCHARGE INTO THE FORMS SHALL NOT EXCEED 90 DEGREES F. UNLESS OTHERWISE PERMITTED IN THE "THERMAL CONTROL PLAN", THE "THERMAL CONTROL PLAN" SHALL BE DESIGNED TO LIMIT THE MAXIMUM INTERNAL TEMPERATURE OF THE CONCRETE TO 160 DEGREES F. HOWEVER, IF IT IS DETERMINED BY CHEMISTRY OF THE CEMENTITIOUS MATERIALS AND VERIFIED BY MILL CERTIFICATIONS THAT THE FLY ASH AND CEMENT TO BE USED FOR THE PROJECT IS NOT CONCLUSIVE FOR DELAYED ETTRINGITE FORMATION (DEF) (S/A RATIO LESS THEN 0.65) THEN IT SHALL BE PERMITTED TO ALLOW FOR A SHORT DURATION A MAXIMUM INTERNAL TEMPERATURE OF 165 DEGREES F. THE "THERMAL CONTROL PLAN" SHALL LIST THE MAXIMUM TEMPERATURE DIFFERENTIAL, BUT IN NO CASE SHALL THE TEMPERATURE DIFFERENTIAL BETWEEN THE TOP SURFACE AND INTERIOR OF THE CONCRETE EXCEED 45 DEGREES F.

- E. INSULATION USED TO CONTROL INTERNAL TEMPERATURES SHALL ALSO BE PLACED AROUND ANY PROTRUDING REINFORCING DOWELS.

- F. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO PLACEMENT OF ANY MASS CONCRETE.

- G. THE CONTRACTOR SHALL MAKE NECESSARY PRECAUTIONS AND PROVIDE NECESSARY REASONANCES SUCH THAT THE CONCRETE CAN BE PLACED IN ONE CONTINUOUS POUR WITHOUT COLD JOINTS. COLD JOINTS ARE NOT PERMITTED.
H. FIELD QUALITY CONTROL:

- a. GENERAL: THE OWNER WILL EMPLOY A TESTING AGENCY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS IN ACCORDANCE WITH "THERMAL CONTROL PLAN".
b. CONCRETE TEST CYLINDERS: CYLINDERS SHALL BE TAKEN, MADE AND TESTED IN ACCORDANCE WITH ASTM C 31 AND C 39 RESPECTIVELY. SETS OF SIX FIELD CONTROL CYLINDER SPECIMENS ARE TO BE TAKEN AT RANDOM DURING THE PROGRESS OF THE WORK. THE TOTAL NUMBER OF SPECIMENS TAKEN SHALL AVERAGE 1 SET PER 500 CUBIC YARDS OF CONCRETE. TEST 1 CYLINDER AT 7 DAYS, AND 2 AT 28 DAYS AND 2 AT 56 DAYS. THE TOTAL NUMBER OF SPECIMENS TAKEN SHALL AVERAGE 1 SET PER 50 CUBIC YARDS. IN ADDITION TO THE ABOVE TESTS COMPRESSIVE STRENGTH TESTS OF TWO CYLINDERS SHALL BE MEASURED AT 1, 2, 3, 7, 10, 14, AND 28 DAYS. THE CYLINDERS SHALL BE PLACED ON THE TOP SURFACE OF THE CONCRETE IN CLOSE PROXIMITY TO THE TEMPERATURE SENSORS UNDERNEATH THE INSULATION, AND AWAY FROM ANY COLUMN OR SHEAR WALL DOWELS.
c. TEMPERATURE MONITORING: TAKE SAMPLE READINGS OF TEMPERATURE SENSORS IN-SITU PRIOR TO CONCRETE PLACEMENT TO VERIFY THAT THEY ARE WORKING

MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270. GROUT SHALL BE 2500 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476. SAMPLE AND TEST GROUT IN ACCORDANCE WITH ASTM C1019.

4205 THE BEAMS:

A. BEAMS WITH THE PREFIX "TB" SHALL BE OF CONCRETE, POURED AFTER THE BLOCK WALLS ARE IN PLACE. REINFORCING SHALL BE CONTINUOUS THROUGH THE BEAMS WITH MINIMUM LAP SPICES OF 48 BAR DIAMETERS UNLESS INDICATED OTHERWISE ON DRAWINGS, AND BENT BARS AT CORNERS. USE METAL LATH, AND ANOTHER SPECIFIED TYPE OF REINFORCEMENT IF SPECIFIED ON DRAWINGS. IN ACCORDANCE WITH TMS 402 (SOLID MORTAR OR FELT CAVITY CAPS ARE PROHIBITED), THE BEAM CONCRETE SHALL NOT BE USED FOR CELL FILL IN MASONRY WALLS.

4207 LINTELS:

A. UNLESS NOTED OTHERWISE, MASONRY OPENINGS LESS THAN ** FEET SHALL BE SPANNED WITH 8"x16" CONCRETE LINTELS WITH (2) #5 REINFORCING BARS TOP AND BOTTOM. MASONRY OPENINGS LESS THAN ** FEET SHALL BE SPANNED WITH 8"x12" CONCRETE LINTELS WITH (2) #5 REINFORCING BARS TOP AND BOTTOM. MASONRY OPENINGS LESS THAN ** FEET SHALL BE SPANNED WITH 8"x8" CONCRETE LINTELS WITH (2) #5 REINFORCING BARS BOTTOM. LINTELS SHALL BEAR A MINIMUM OF 6" AT EACH END.

5101 STRUCTURAL STEEL:

A. UNLESS NOTED OTHERWISE, ALLOWANCE FOR SUPPLYING AND ERECTING ADDITIONAL STEEL IN ADDITION TO THAT SHOWN ON PLAN, WITHIN SECTIONS, DETAILS OR SCHEDULES TO BE USED IN PLACE AT THE DISCRETION OF THE STRUCTURAL ENGINEER AS FOLLOWS:

a. (3) TONS OF STRUCTURAL STEEL

b. (2) TONS OF STEEL (P & S)

c. (5) TONS OF MISCELLANEOUS STEEL, ASSUME 50% ARE HSS MEMBERS

B. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNO ON THE STRUCTURAL DRAWINGS:

a. WIDE FLANGE SHAPES: ASTM A572 OR ASTM A992 (Fy = 50 KSI)

b. CHANNELS, ANGLES, PLATES, BARS: ASTM A36 (Fy = 36 KSI)

c. RECTANGULAR TUBES (HSS): ASTM A500 GRADE B (Fy = 48 KSI)

d. STRUCTURAL PIPE: ASTM A53 GRADE B (Fy = 35 KSI)

e. ROUND TUBES (HSS): ASTM A500 GRADE C (Fy = 46 KSI)

C. ALL STRUCTURAL BOLTS (INCLUDING WASHERS AND NUTS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 325 OR A490. ALL BOLTS SHALL BE TIGHTENED TO THE SPECIFIED TENSION OR PRESTRESS TENSION AND TENSILE AND TENSILE TESTS FOR STRUCTURAL STEEL MADE NO MORE THAN (60) DAYS BEFORE SHIPMENT.

D. ANCHOR RODS TO BE ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE.

E. WELDER QUALIFICATIONS: QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURE" PER AWS D1.1. OPERATORS SHALL CARRY PROOF OF QUALIFICATIONS ON THEIR PERSONS.

F. TEST REPORTS: (2) COPIES, PLUS THE NUMBER CONTRACTOR WANTS RETURNED, SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AND TENSILE AND TENSILE TESTS FOR STRUCTURAL STEEL MADE NO MORE THAN (60) DAYS BEFORE SHIPMENT.

G. CERTIFICATES: TESTING LABORATORY'S CERTIFICATE THAT:

a. STRUCTURAL STEEL HAS BEEN FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS

b. ON-SITE INSPECTIONS HAVE BEEN CONDUCTED AND INSTALLED IN ACCORDANCE WITH THE FIELD QUALITY CONTROL BELOW.

H. TESTING LABORATORY SHALL INSPECT CONNECTIONS IN ACCORDANCE WITH REFERENCES AS FOLLOWS:

a. WELDED CONNECTIONS: INSPECT ALL COMPLETE PENETRATION WELDS AND FILL WELDS MADE BY FABRICATOR, VISUALLY INSPECT 50% MINIMUM OF FILL WELDS. SHOULD ANY WELDS FAIL, 100% SHALL BE INSPECTED.

b. BOLTED CONNECTORS: INSPECT AT LEAST 10% OF ALL HIGH STRENGTH BOLTS WHICH ARE WELL SCATTERED THROUGHOUT THE STRUCTURE. IF LESS THAN 9% OF BOLTS MEET DESIGN TENSION OR IF ANY BOLT IS LESS THAN 80% OF DESIGN TENSION, THEN ALL BOLTS SHALL BE REWORKED. INSPECT 50% OF ALL REWORKED BOLTS. REPEAT THIS PROCESS UNTIL THE ABOVE REQUIREMENTS ARE MET. LOAD INDICATOR WASHERS MAY BE USED TO TEST 100% OF ALL HIGH-STRENGTH BOLTS.

c. VISUALLY INSPECT ALL STEEL DECK ATTACHMENT.

d. INSPECT A MINIMUM OF 20% OF SHEAR CONNECTORS.

e. FOR COMPOSITE BEAMS, AT THE BEGINNING OF EACH WORK SHIFT, (2) STUDS SHALL BE BENT TO THE DESIGN TENSION OR IF ANY BOLT IS LESS THAN 80% OF DESIGN TENSION, DO NOT BEND TEST STUDS BACK TO STRAIGHT.

f. FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING, TWENTY-FIVE PERCENT OF THE WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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STRUCTURAL STEEL (CONT.):

COPIES OF TEST RESULTS AND INSPECTION REPORTS SHALL BE SENT DIRECTLY TO THE ENGINEER WITHIN 10 DAYS OF TESTING BEING COMPLETED BY FINISH MATERIALS. STEEL DECK INSTALLATION MUST BE INSPECTED PRIOR TO VISIT BY STRUCTURAL ENGINEER IN ADVANCE OF SCHEDULED CONCRETE DECK POUR.

J. PRE-CONCRETE & PRE-STEEL ERECTION CONFERENCES SHALL BE HELD BY THE CONTRACTOR WITH ARCHITECT, STRUCTURAL ENGINEER, GENERAL CONTRACTOR, ERECTORS, AND ENGINEERS. THESE CONFERENCES SHALL BE HELD WELL IN ADVANCE OF CONSTRUCTION TO ENSURE PROPER INTERPRETATION OF DESIGN INTENT. STEEL ERECTION SHALL FIELD VERIFY CORRECTNESS OF FOUNDATION, ANCHOR RODS, OR OTHER EXISTING WORK AFFECTING THE STEEL BEFORE STARTING ERECTION.

K. STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION TO BE IN ACCORDANCE WITH THE 15TH EDITION OF THE "STEEL CONSTRUCTION MANUAL" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. SHOP DRAWINGS SHALL GIVE COMPLETE WELDING INFORMATION BOTH SHOP AND FIELD, USING AWS SYMBOLS. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E-70XX. (LOW-HYDROGEN FOR SMAW WELDING) ALL WELDING PROCEDURES SHALL BE LOW-HYDROGEN WELDING. ELECTIONS SHALL BE MADE TO FIELD WELDING OPENINGS TO MAINTAIN LOW HYDROGEN CONTENTS. ALL CONNECTIONS, EXCEPT THOSE INDICATED ON THE DRAWINGS AS WELDED CONNECTIONS, ARE TO BE MADE USING 3/4" OR 7/8" DIAMETER ASTM A305 BOLTS.

L. SUBMIT SHOP DRAWINGS, SIGNED AND SEALED BY AN ENGINEER LICENSED WITHIN THE SCOPE OF THE PROJECT FOR FABRICATION AND ERECTION OF ALL STEEL MEMBERS IN ACCORDANCE WITH AISC STANDARDS NOTED ABOVE. DETAILER SHALL ASSUME EQUAL BEAM SPACING BETWEEN COLUMN LINES OR BETWEEN BEAMS THAT ARE NOT SHOWN. DETAILER SHALL FIELD VERIFY UNLESS NOTED OTHERWISE ON THE DRAWINGS BY WAY OF SPECIFIC DIMENSIONS.

M. FABRICATOR SHALL DESIGN ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON DRAWINGS. CONNECTIONS SHALL BE DESIGNED BY AN ENGINEER, EMPLOYED BY THE CONTRACTOR OR THEIR SUB CONTRACTOR, REGISTERED IN THE JURISDICTION OF THE PROJECT, AND SEALED CALIBRATED AND SIGNED. BEAMS TO BE SUBMITTED FOR REVIEW AND APPROVAL REGARDLESS OF PROVISION TO THE CONTRARY IN AISC CODE STANDARDS. DETAILER SHALL BE RESPONSIBLE FOR ALL CONNECTIONS DESIGNED BY FABRICATOR SHALL BE THEIR RESPONSIBILITY. A REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL NOT RELIEVE FABRICATOR OF THE RESPONSIBILITY OF THE STEEL FABRICATOR. DETAILER SHALL VERIFY CONNECTION DETAILS SHOWN ON THEIR DRAWINGS CORRESPOND WITH THE REQUIREMENTS OF CONNECTION CALCULATIONS. DETAILS AND CONNECTIONS COMPLETELY DETAILED IN THE CONTRACT DOCUMENTS SHALL NOT BE ALTERED WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.

N. UNLESS OTHERWISE NOTED, ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED OR SEATED CONNECTIONS AS SHOWN IN PART 9 OF THE AISC STEEL CONSTRUCTION MANUAL, (15TH EDITION). BEAM CONNECTIONS TO TUBE COLUMNS SHALL BE THRU-PLATE TYPE UNLESS NOTED OTHERWISE. UNLESS GREATER REACTIONS ARE NOTED ON THE DRAWINGS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM. CONNECTIONS SHALL BE DESIGNED AS BEAMS WITH TYPE C AND D BEAMS WITH THREADS IN THE SHEAR PLANE UNLESS OTHERWISE NOTED. IN NO CASE SHALL THE LENGTH OF FRAMED CONNECTIONS BE LESS THAN ONE-HALF THE "T" DISTANCE OF THE BEAM WEB.

O. DESIGN OF MOMENT CONNECTIONS BY DELEGATED ENGINEER SHALL CONSIDER REACTIONS ON WEB OF COLUMN MEMBER AND DESIGN DOUBLE PLATES AS REQUIRED.

P. CONNECTIONS FOR BEAMS WHICH CANNOT CONFORM TO THE TYPICAL CONNECTION DETAIL SHOWN SHALL BE ACCORDANCE WITH THE FOLLOWING:

- a. UNLESS OTHERWISE NOTED, ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED OR SEATED CONNECTIONS AS SHOWN IN PART 9 OF THE AISC STEEL CONSTRUCTION MANUAL, (15TH EDITION).
- b. WHERE BEAM REACTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DETAILED FOR THE MAXIMUM UNIFORM LOAD WHICH THE BEAM WILL BE REQUIRED TO CARRY (AS SIMPLE BEAM) FOR THE SPAN SHOWN ON DRAWING. MINIMUM BEAM REACTION TO BE USED = 15 KIPS (UNFACTORED).
- c. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL BE DESIGNED BY A DELEGATE ENGINEER TO DEVELOP THE REACTIONS SHOWN.
- d. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DETAILING THE CONNECTION. WELDED CONNECTIONS SHALL BE DESIGNED TO TAKE INTO CONSIDERATION THE ECCENTRICITIES OF INDIVIDUAL MEMBERS.
- e. MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE BASED ON NOMINAL BEAM DEPTH AS FOLLOWS: 2 FOR BEAMS UP TO 10'-3" FOR BEAMS 12" AND 14"; 4 FOR BEAMS 16" AND 18"; 5 FOR BEAMS 21", 6 FOR BEAMS 24", 7 FOR BEAMS 27" OR 30". (MINIMUM 3 BOLTS PER BEAM). 4 BOLTS FOR 14", 16", 18", 21", 24", 27", 30" CONNECTIONS SHALL EMPLOY DOUBLE GUSSET PLATES, NON-LABELLED CONNECTIONS SHOWN IN DETAILS ARE FOR GENERAL ARRANGEMENT ONLY.
- f. THE FOLLOWING BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE MINIMUM BOLT PRETENSION VALUES INDICATED IN TABLE J3.1 OF THE 15TH EDITION OF THE AISC STEEL CONSTRUCTION MANUAL:
 - MOMENT CONNECTION FLANGE PLATES
 - BRACED FRAME CONNECTIONS
 - HANGERS
 - BOLTS IN TENSION
 - ALL SLIP-CRITICAL BOLTS
 - ALL CONNECTIONS SUBJECT TO VIBRATION
- g. ALL ASTM A490 BOLTS
 - TIGHTENING SHALL BE DONE BY ANY OF THE FOLLOWING METHODS: DIRECT TENSION INDICATORS; CALIBRATED WRENCH; TURN-OF-NUT METHOD.
 - ALL OTHER BOLTED CONNECTIONS MAY BE TIGHTENED ONLY TO THE SUGGESTED TIGHTENING CONDITION. THE TIGHTENING CONDITION IS DEFINED AS THE TIGHTNESS OBTAINED BY EITHER A FEW PAYS OF AN IMPACT WRENCH, OR THE FULL EFFORT OF A WORKER WITH A SPUD WRENCH THAT BRINGS THE PLIES INTO FIRM CONTACT.

Q. MINIMUM WELD SIZE SHALL BE 3/16" UNLESS OTHERWISE NOTED.

R. GUSSET PLATE SHALL BE 3/8" MINIMUM THICKNESS, UNLESS NOTED OTHERWISE.

S. THE GENERAL CONTRACTOR SHALL VERIFY THE REQUIRED CAMBER IN THE FIELD PRIOR TO ERECTION OF EACH MEMBER.

T. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPlice TO BE MADE. ANY MEMBER HAVING A SPlice NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED.

U. STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING AND NAILERS IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL DETAILS.

V. THIS STRUCTURE IS NOT DESIGNED FOR EACH COLUMN LINE BE TO RESIST LATERAL FORCES FROM WIND OR SEISMIC LOADS (UNLESS NOTED OTHERWISE ON PLAN). THIS STRUCTURE DEPENDS ON THE DIAPHRAGM AND BRACING MEMBERS SHOWN. THE CONTRACTOR IS TO PROVIDE LATERAL BRACING IN EACH DIRECTION DURING THE ERECTION PHASE. SUCH BRACING SHALL REMAIN IN PLACE UNTIL ALL DIAPHRAGM AND WIND BRACING ELEMENTS ARE IN PLACE IN THEIR ENTIRETY AND HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.

W. STEAR STUD CONNECTORS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE FOLLOWING CONDITION: THE TIGHTENING CONDITION IS DEFINED AS THE TIGHTNESS OBTAINED BY EITHER A FEW PAYS OF AN IMPACT WRENCH, OR THE FULL EFFORT OF A WORKER WITH A SPUD WRENCH THAT BRINGS THE PLIES INTO FIRM CONTACT.

X. ALL STRUCTURAL STEEL TO RECEIVE SPRAY ON FIRE PROOFING OR TO BE IN CONTACT WITH FRESH CONCRETE SHALL BE BARE, WITHOUT COATING. ALL STRUCTURAL STEEL TO BE IN CONTACT WITH FRESH CONCRETE SHALL BE GALVANIZED OR GALVALUME (ASTM A123-17) STEEL CONNECTIONS BELOW GRADE SHALL PAINTED WITH 2 COATS OF ASPHALTIC PAINT AND ENCASED IN A MINIMUM OF 4" OF CONCRETE. DO NOT PAINT TOP OF BEAMS OR BEAMS TO BE IN CONTACT WITH FRESH CONCRETE. STEEL NOT LISTED ABOVE SHALL RECEIVE ONE (1) SHOP COAT OF PAINT AFTER CLEANING OF ALL RUST, SCALE, AND FOREIGN MATTER. SURFACES SHALL BE DRY AND CLEAN AT TIME OF APPLICATION OF PAINT. ALL STEEL TO RECEIVE SUCH TREATMENTS, INCLUDING TOUCH-UP OF CONNECTIONS IN PRIMED OR GALVANIZED STRUCTURAL STEEL, FOLLOWING APPROVAL OF TESTING AGENCY.

Y. SUSPENSION FROM ROOF STRUCTURE:

- a. SUBCONTRACTORS INSTALLING CONDUIT, PIPING, OR EQUIPMENT SUSPENDED FROM THE STRUCTURE SHALL ATTEND A PRECONSTRUCTION MEETING.
- b. ATTACHMENT TO METAL DECK IS PROHIBITED.
- c. PIPE HANGERS SHALL BE ATTACHED TO BOTH FLANGES OF WIDE FLANGE BEAMS, AND CHANNELS WITH APPROVED "BEAM CLAMPS" AND "CHANNEL CLAMPS".
- d. ATTACHMENT TO METAL DECK IS PROHIBITED.
- e. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- f. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- g. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- h. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- i. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- j. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- k. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- l. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- m. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- n. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- o. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- p. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- q. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- r. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- s. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- t. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- u. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- v. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- w. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- x. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- y. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.
- z. ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.

ALL SHALL BE SUPPORTED FROM EACH BEAM WHERE SUCH A SYSTEM CROSSES OR AT 8'-0" OX MAX. WHEN ALL CONNECTIONS ARE PARALLEL TO BEAMS.

9. **STRUCTURAL STEEL (CONTD):**

A. ALL CONTRACTORS AND SUBCONTRACTORS SUSPENDING LOADS FROM STRUCTURE SUCH AS ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND PROCESS CONTRACTORS ARE TO PROVIDE ALL RIGGING REQUIRED FOR COMPLETE INSTALLATION AND FURNISH DRAWINGS SHOWING NECESSARY POINTS OF SUPPORT, AND HANGERS FOR PIPING, CONDUIT AND EQUIPMENT, SO THAT ALL MEETING SPECIFICATIONS OF REPRESENTATIVE ITEMS SUPPORTED, ANY EXPENSE RESULTING FROM IMPROPER LOCATION OR INSTALLATION OF ANCHOR BOLTS, SLEEVES, OPENINGS, INSERTS, HANGERS, RACKS OR SUPPORTS TO BE PAID FOR BY THE CONTRACTOR RESPONSIBLE FOR THAT PORTION OF THE WORK.

Z. SHEAR CONNECTIONS SHALL BE AS SHOWN ON PLANS OR DETAILS WELDED DIRECTLY TO BEAM OR THRU METAL DECK. DO NOT WELD TO CLOSURE PLATES.

AA. SLOTTED HOLES FOR BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ALIGNED ALONG A COLUMN LINE OR WITHIN BRACED FRAMES.

§201 STEEL JOISTS:

A. SHALL BE THE SIZE AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE DESIGNED, FABRICATED, INSTALLED AND BRIDGED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. ENDS OF BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO AT TOP AND BOTTOM CHORDS. MINIMUM JOIST BRIDGING TERMINATION CONNECTIONS TO MASONRY SHALL BE $1\frac{1}{2} \times 4 \times 4$ PLONG WITH (1) 1/2" DIAMETER ANCHOR BOLT OR $1\frac{1}{4} \times 4 \times 4$ WITH (1) 1/2" x 5" HEADED STUD TO CONCRETE. BRIDGING SHALL BE WELDED OR BOLTED AT POINTS OF CONTACT. WELD SHALL NOT DAMAGE THE JOIST. CROSS BRIDGING SHALL BE WELDED OR BOLTED AT ITS CENTER POINT.

B. K-SERIES JOISTS SHALL BEAR A MINIMUM OF 2 1/2" ON STEEL BEAMS AND 4" ON CONCRETE BEAMS. JOIST BEARING PLATES TO BE MINIMUM $3\frac{1}{2} \times 4 \times 7\frac{1}{2}$ WITH (2) 1/2" DIAMETER x 5" SHEAR STUD CONNECTORS. BEARING PLATES FOR BACK TO BACK STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATES WITH A MINIMUM OF 1/8" FILLET WELD EACH SIDE OF SEAT, UNLESS NOTED OTHERWISE.

C. LH-SERIES JOISTS SHALL BEAR A MINIMUM OF 4" ON STEEL BEAMS AND 6" ON CONCRETE BEAMS. JOIST BEARING PLATES TO BE MINIMUM $3\frac{1}{2} \times 4 \times 9$ WITH (2) 1/2" DIAMETER x 5" SHEAR STUD CONNECTORS. BEARING PLATES FOR BACK TO BACK SINGLE JOISTS SHALL BE MINIMUM $3\frac{1}{2} \times 8 \times 11$ 5/8" WITH (4) 1/2" DIAMETER x 5" SHEAR STUD CONNECTORS. BEARING PLATES SHALL BE CAST INTEGRALLY WITH THE CONCRETE BEAM. WELD JOISTS TO BEARING PLATE WITH A MINIMUM OF (2) 1/4" FILLET WELDS, UNLESS NOTED OTHERWISE. BACK TO BACK JOISTS SHALL BE WELDED OR BOLTED AT POINTS OF CONTACT. WELD SHALL NOT DAMAGE THE JOIST. FILLET WELD EACH SIDE OF BEAM IS LESS THAN 1/2" NOMINAL WIDTH OR STEEL BEAM IS LESS THAN 8" WIDE.

D. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTAL SHALL INCLUDE LAYOUT, COMPONENT DESIGNATION, BRIDGING, AND PERTINENT SECTIONS AND DETAILS. SUBMITTALS FOR JOISTS, OTHER THAN STANDARD SJI CATALOG SELECTIONS WHICH HAVE BEEN CHECKED BY SJI, SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A REGISTERED PROFESSIONAL ENGINEER WITHIN THE JURISDICTION OF THE PROJECT.

E. JOIST BRIDGING SHALL CONFORM TO THE LATEST SJI SPECIFICATIONS AND/OR OSHA REQUIREMENTS. WELD WELD BRIDGING IS TO BE AS SHOWN ON DETAILS. ALL JOISTS FORTHY (40) FEET AND LONGER REQUIRE A ROW OF BOLTED CROSS BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES.

F. ALL JOISTS SHALL BE PROPERLY ANCHORED AT BEARINGS BY EITHER BOLTING OR FIELD WELDING PER TYPICAL DETAILS.

G. JOIST BRIDGING AND CONNECTIONS SHALL BE COMPLETELY INSTALLED PRIOR TO PLACING ANY CONSTRUCTION LOADS ON THE JOISTS. CONSTRUCTION LOADING SHALL NOT EXCEED THE JOIST DESIGN LOADS.

H. ALL JOISTS SHALL BE SHOP PAINTED IN ACCORDANCE WITH SJI REQUIREMENTS.

I. THE JOIST MANUFACTURER SHALL SUBMIT CALCULATIONS FOR ALL SPECIAL JOISTS TO THE AE FOR APPROVAL PRIOR TO FABRICATION. THESE CALCULATIONS SHALL BEAR THE SIGNED AND DATED SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE PROJECT IS LOCATED.

J. THE JOIST MANUFACTURER SHALL BE A SJI CERTIFIED SHOP AND MAINTAIN APPROVED FABRICATION PROCEDURES AS REQUIRED PER SJI REQUIREMENTS.

§202 JOIST BEARING:

A. WHERE STEEL BEAMS SUPPORT JOISTS FRAMING FROM ONE SIDE ONLY, OR WHERE JOISTS FROM ONE SIDE ARE 30% LONGER THAN THE JOISTS ON THE OPPOSITE OF THE BEAM, JOISTS SHALL BEAR FULL WIDTH OF THE STEEL BEAM OR 5 1/2", WHICHEVER IS LESS.

§203 NET UPLIFT DESIGN:

A. STEEL ROOF JOISTS SHALL BE DESIGNED TO WITHSTAND NET UPLIFT INDICATED ON DRAWINGS. IN ADDITION TO THE STANDARD SJI BOTTOM CHORD BRIDGING, WHICH INCLUDES THE FIRST END PANELS, THE JOIST MANUFACTURER SHALL PROVIDE DESIGN CALCULATIONS FOR UPLIFT, EITHER CONFIRMING THE CROSS BRIDGING REQUIREMENT OR PROVIDING A DESIGN ADEQUATE FOR THE UPLIFT. THIS SUBMITTAL SHALL BEAR THE SIGNATURE AND IMPRESSED SEAL OF A REGISTERED PROFESSIONAL ENGINEER WITHIN THE JURISDICTION OF THE PROJECT. DEAD LOAD TO RESIST UPLIFT SHALL NOT BE MORE THAN 5 PSF.

§212 STEEL ROOF DECK:

A. ROOF DECK SHALL BE A GALVANIZED (G90) WIDE RIB STEEL ROOF DECK (WR) OF THE DEPTH AND GAGE AS NOTED ON PLANS AND SHALL CONFORM TO PROVISIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR NON-COMPOSITE STEEL FORM DECK. ATTACHMENT PATTERN SHALL BE AS SPECIFIED ON PLANS.

B. ALL DETAILING, FABRICATION, AND ERECTION SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS INCLUDING ADDITIONAL CONNECTIONS, PLATES, HOLES, WELDING, BOLTS, NOT DEPICTED ON THESE DRAWINGS.

C. THE DECK HAS BEEN DESIGNED TO ACT AS A SHEAR DIAPHRAGM. THE DECK PANELS ACT AS BRACING FOR THE BUILDING AND REMOVING ANY OF THE PANELS IS PROHIBITED UNLESS SEPARATE BRACING IS DESIGNED AND PROVIDED. DECK FASTENERS USED AROUND FRAMED OPENINGS SHALL BE THE SAME AS, AND THEIR SPACING EQUAL TO OR CLOSER THAN, THE SPACING USED TO ATTACH THE DECK TO THE FRAME.

D. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE JOB INCLUDING DECK SUPPORT ANGLES AT COLUMNS AND DECK SPAN CHAIRS, COVER PLATES, CLOSURES AND SUMP PANS.

STEEL DECK INSTALLATION:

ROOF AND FLOOR STEEL DECK SHALL BE OF TYPE SHOWN ON THE CONTRACT DOCUMENTS, AND SHALL BE INSTALLED IN THREE SPAN LENGTH MINIMUM. IF DECK IS INSTALLED IN SINGLE SPAN LENGTHS OR DOUBLE SPAN LENGTHS, THE DECK SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE STEEL DECK INSTITUTE RECOMMENDATIONS INCLUDING ANY REQUIRED SHORING, SUBMIT SHOP DRAWINGS AND ERECTION PLAN LOCATING EACH SECTION OF DECK AND INCLUDE LOCATION OF ALL SUPPORTS, TYPE AND LOCATION OF ACCESSORIES, DETAILS OF FASTENING, REINFORCEMENT TO BE PROVIDED, DECK PROPERTIES, AND OTHER PERTINENT INFORMATION.

a. CUT DECK SO END JOINTS WILL OCCUR ON SUPPORTING MEMBERS AND OVERLAP A MINIMUM OF 2". UNLESS NOTED OTHERWISE.

b. MINIMUM SIZE PUDDLE WELD IS 5/8" DIAMETER, MIN. SIZE SCREW IS NO. 10 GALVANIZED OR CADMIUM PLATED.

c. FASTENING:

- ANCHOR DECK TO EVERY STRUCTURAL STEEL SUPPORT BY WELDING. WELDMENT SHALL BE AS SHOWN ON CONTRACT DOCUMENTS AND IN ACCORDANCE WITH STEEL DECK INSTITUTE. USE WELD WASHERS FOR DECK LESS THAN 22 GAUGE. WELD FIRST AND LAST RIBS OF EACH UNIT AT ALL SUPPORTS. WELD ENDS AND LAPS THROUGH ALL THICKNESSES. WELD PERIMETER DECK UNITS TO SUPPORTING STEEL PARALLEL TO DECK AT MAXIMUM SPACING OF 12" OC UNLESS NOTED OTHERWISE. MAKE ALL WELDS DIRECTLY OVER SUPPORTS.
- FASTEN SIDE LAPS OF ADJACENT DECK UNITS WITH SCREWS AT INTERVALS AS SHOWN OR NOTED ON DRAWING OR AT THE SPACING RECOMMENDED BY THE DECK MANUFACTURER, WHICHEVER SPACING IS LESS.
- FASTEN METAL ACCESSORIES TO DECK BY SAME METHOD USED TO ATTACH DECK TO SUPPORTS. FASTEN AT EACH CORNER AND AT MAXIMUM SPACING OF 12" OC.
- WELD METAL SLAB PENETRATE ALL LAYERS OF DECK MATERIAL. AT ENDS AND SIDE JOINTS AND SHALL HAVE GOOD FUSION TO THE SUPPORTING MEMBERS.

d. METAL ACCESSORIES: INSTALL STRIP CLOSURES AT FLOOR DECK EDGES AND OPENINGS OF THICKNESS OF SLAB AS REQUIRED TO CONTAIN WET CONCRETE. ENSURE CLOSURES ARE OF SUFFICIENT STRENGTH AND RIGIDITY TO STAY IN PLACE WITHOUT DISTORTION. ALL CLOSURE STRIPS GAUGE AND FASTENING ARE TO BE DESIGNED TO HAVE EQUIVALENT DIAPHRAGM STRENGTH TO FLOOR DECK.

SLEEVES, CONDUITS, PIPING MAY BE DESIGNED TO PENETRATE ELEVATED SLAB AND DECK SEE TYPICAL DETAILS. SLEEVES, CONDUITS AND PIPING SHALL NOT BE LOCATED WITHIN THE ELEVATED SLAB THICKNESS RUNNING PARALLEL WITH THE TOP SURFACE OF THE SLAB.

30 COMPOSITE STEEL DECK:

FLOOR DECK SHALL BE GALVANIZED (G60), CORRUGATED STEEL COMPOSITE DECK OF GAUGE AND DEPTH INDICATED ON PLANS, CONFORMING TO STEEL DECK INSTITUTE SPECIFICATION FOR COMPOSITE FLOOR DECK. DECK SHALL HAVE DEFORMATIONS TO PROVIDE ADEQUATE MECHANICAL INTERLOCKING BETWEEN DECK AND CONCRETE FOR COMPOSITE ACTION.

PROVIDE 5/8" DIA PUDDLE WELDS AT 12" OC AT EACH SUPPORT WHERE SPACING OF SHEAR STUDS EXCEEDS 12 INCHES. SIDE LAPS BETWEEN DECK SHALL BE WELDED OR FASTENED USING #10 TEK SCREWS AT A MAXIMUM SPACING OF 36 INCHES. BUTTON PUNCHING OF SIDE LAPS IS NOT PERMITTED. PROVIDE 20 GAUGE CLOSURE STRIPS BETWEEN DECKING AND STEEL FRAMING MEMBERS PARALLEL TO DECK SPAN.

ALL DETAILING, FABRICATION, AND ERECTION SHALL COMPLY WITH ALL APPLICABLE OSHA REGULATIONS INCLUDING ADDITIONAL CONNECTORS, PLATES, HOLES, WELDING, BOLTS, NOT DEPICTED ON THESE DRAWINGS.

PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE JOB INCLUDING DECK SUPPORT ANGLES AT COLUMNS AND DECK SPAN CHANGES, COVER PLATES, CLOSURES AND PANS.

DECK SLAB BE PROVIDED IN A MINIMUM OF 3 SPAN LENGTHS WHERE POSSIBLE.

THE SEQUENCE AND METHOD OF POURING THE FLOORS SHALL BE SUBMITTED TO THE A/E PRIOR TO STARTING ANY CONCRETE OPERATIONS. IN GENERAL, CONCRETE POURS SHOULD BE MADE ACROSS THE ENTIRE WIDTH OF A FLOOR IN A DIRECTION PARALLEL TO THE GIRDERS. ANY SINGLE POUR SHOULD BE STOPPED AT A COLUMN LINE.

PAINTING:

CONTRACTOR TO RE-PAINT/TOUCHUP EXISTING SURFACES WHERE DAMAGED BY CONSTRUCTION ACTIVITIES AND TO RENDER THE COMPLETED PROJECT VISUALLY CONTINUOUS AS NOT TO APPEAR AS RE-PAINT/TOUCHUP HAS OCCURRED.

USE PRIMER AND PAINT TO BE COMPATIBLE W/ EXISTING PAINT AND TO MATCH EXISTING COLOR.

ABBREVIATIONS			
DDL	- ADDITIONAL	FOM	- FACE OF MASONRY
R	- ANCHOR ROD	FS	- FAR SIDE
LT	- ALTERNATE	FT	- FOOT
PPROX	- APPROXIMATELY	F#	- FOOTING
RCH	- ARCHITECT	FTG	- FOOTING
RCHL	- ARCHITECTURAL	FV	- FIELD VERIFY
LDG	- BOTTOM CHORD	GA	- GAUGE
C	- BUILDING	GALV	- GALVANIZED
M	- BEAM	GC	- GENERAL CONTRACTOR
OTT	- BOTTOM	HC	- HOLLOW CORE
RG	- BEARING	HCP	- HOLLOW CORE PLATE
OL	- CENTER TO CENTER	HDG	- HOT DIPPED GALVALUM
C	- CONTINUOUS FOOTING	HG	- HIP GIRDER
F	- CAST IN PLACE	HK	- HOOK
J	- CONTRACTION JOINT	HORIZ	- HORIZONTAL
IL	- COMPLETE JOINT PENETRATION	HP	- HIGH POINT
LE	- CENTERLINE	HS	- HIGH STRENGTH
CLR	- CLEAR	IJ	- ISOLATION JOINT
MMU	- CONCRETE MASONRY UNIT	INFO	- INFORMATION
ENTRD	- CENTERED	INS	- INSULATION
COL	- COLUMN	INT	- INTERIOR
ONC	- CONCRETE	IRR	- IRREGULAR
CONF	- CONFIGURATION	JB	- JOIST BEARING
ONT	- CONTINUOUS	JBE	- JOIST BEARING ELEMENT
ONTR	- CONTRACTOR	JR	- JAMB REINFORCING
CTR	- CENTER	JT	- JOINT
BL	- DOUBLE	K	- KIP(s), 1000 POUNDS
D	- DECK DRAIN	KLF	- KIPS PER LINEAR FOOT
D	- DETAIL	KJ	- CONSTRUCTION JOINT
IA	- DIAMETER	L	- ANGLE
MM	- DIMENSION	LG	- LONG
N	- DOWN	LLH	- LONG LEG HORIZONTAL
DR	- DRAIN	LLV	- LONG LEG VERTICAL
WVG	- DRAWING	LP	- LONG POINT
A	- EACH	LW	- LONG WAY
E	- EACH END	LWT	- LIGHT WEIGHT
F	- EACH FACE	MFR	- MANUFACTURER
J	- EXPANSION JOINT	MMS	- MASONRY
L	- ELEVATION	MO	- MASONRY OPENING
LEV	- ELEVATOR	MATL	- MATERIAL
NGR	- ENGINEER	MAX	- MAXIMUM
OR	- ENGINEER OF RECORD	MECHL	- MECHANICAL
OS	- EDGE OF SLAB	MTL	- METAL
Q	- EQUAL	MIN	- MINIMUM
W	- EACH WAY	MISC	- MISCELLANEOUS
XIST	- EXISTING	MS	- NEAR SIDE
XP	- EXPANSION	NIC	- NOT IN CONTRACT
XT	- EXTERIOR	NTS	- NOT TO SCALE
IN	- FINISH	NW	- NORMAL WEIGHT
LR	- FLOOR	OC	- ON CENTER
D	- FLOOR DRAIN	OH	- OPPOSITE HAND
DN	- FOUNDATION	OPNG	- OPENING

LEGEND		
EM	SYMBOL	ITEM
CONCRETE (COLUMN)		ELEVATION
ARTHR		STEP IN FTG
CONCRETE (WALL)		BEAM SPLICE
CONCRETE SHEARWALL		MOMENT CO
LOAD BEARING CONCRETE BLOCK (CMU)		TOP OF STE
CONCRETE BLOCK SHEARWALL (CMU)		AND
ON-LOAD BEARING (INFL)		PLATE
CONCRETE BLOCK (CMU)		CENTERLINE
WOOD WALL		NUMBER (P
WOOD SHEARWALL		PLUS OR TE
LOAD BEARING METAL STUD WALL		MINUS OR C
METAL STUD SHEAR WALL		POUNDS (FO
SECTION INDICATOR		STEP IN STE
ELEVATION INDICATOR		COLUM
DETAIL INDICATOR		○ - INDICA
OP REBAR		○ - INDICA
BOTTOM REBAR		○ - INDICA

PAF	- POWER ACTUATED FASTENERS
PART	- PARTITION
PARTL	- PARTIAL
PCJ	- PRECAST CONCRETE JOIST
PJP	- PARTIAL JOINT PENETRATION
PL	- PLATE
PLF	- POUNDS PER LINEAR FOOT
PSF	- POUNDS PER SQUARE FOOT
PSI	- POUNDS PER SQUARE INCH
PT	- POST TENSIONED
PvT	- PRESSURE TREATED
PNL	- PANEL
R	- RADIUS
REG	- REGULAR
REINF	- REINFORCING
REM	- REMAINDER
REQD	- REQUIRED
REV	- REVISED/REVISION
RM	- ROOM
RO	- ROUGH OPENING
RQMTS	- REQUIREMENTS
SCHED	- SCHEDULE
SECT	- SECTION
SM	- SIMILAR
SL	- SLOPE
SOG	- SLAB-ON-GRADE
SP	- SPIRAL
SQ	- SQUARE
SS	- STAINLESS STEEL
STD	- STANDARD
STL	- STEEL
STRUCTL	- STRUCTURAL
SW	- SHEARWALL
SW	- SHORT WAY
T	- TOP OF
TB	- TIE BEAM
TC	- TIE COLUMN
TEMP	- TEMPERATURE
TG	- TRUSS GIRDER
TH	- TRUSS HIP
THK	- THICK
TJ	- TRUSS JACK
TR	- TRUSS
TYP	- TYPICAL
UNO	- UNLESS NOTED OTHERWISE
VERT	- VERTICAL
W	- WITH
W/O	- WITHOUT
WD	- WOOD
WF	- WALL FOOTING
WP	- WORK POINT
WWR	- WELDED WIRE REINFORCING

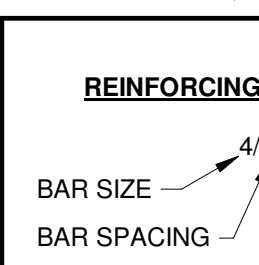
SYMBOL

COL  T/FTG
 DE BM. OR OTHER  -T'-4"
 8' - 0"

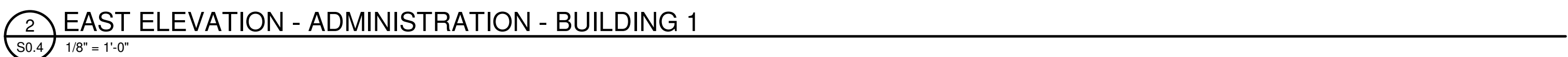
TION 

ELEVATION  BEAM TAG
 (+20'-8')

..... &
 
 
 (ING) #, NO.
 +
 ESSION -
 (ING) #
 RE OR DEPRESSED SLAB  1" / 20'

SYMBOLS	REINFORCING SYMBOLS
COLUMN BELOW COLUMN THRU COLUMN ABOVE	 T-TOP B-BOTTOM C=C' E=E'

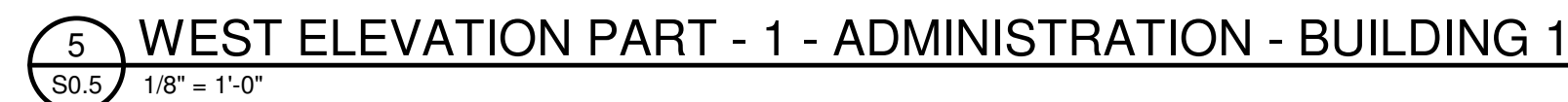
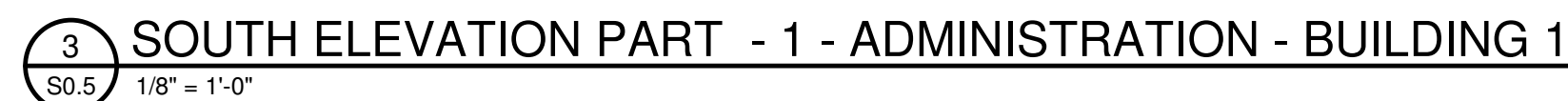
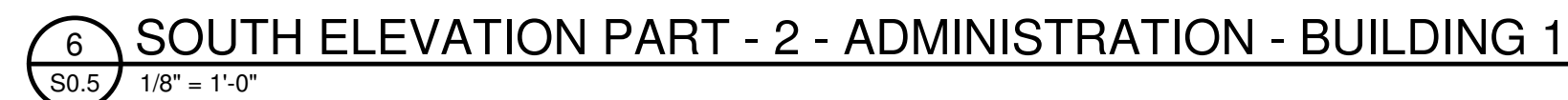
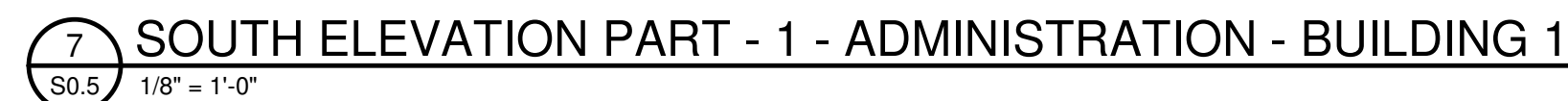
CODE REVIEW:		
CERTIFICATE:		
 SPIEZLE ARCHITECTURAL GROUP INC. 80 ROYAL PALM POINT SUITE 404 VERO BEACH, FL 32960 PHONE: 866 974 7666		
SEAL & SIGNATURE:		
CONSULTANTS:		
 1230 N. University Dr. PLANTATION, FL 33322 PHONE : (954) 484-7777 FAX : (954) 484-7834 © 2025 - TRC Worldwide Engineering All rights reserved www.trcinc.com Certificate of Authorization No. 35826 TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.		
BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026		
PROJECT:		
ST. LUCIE GREEN ZONE K-8 SCHOOL SOUTH 13TH STREET, PORT FIERCE, FL 34950 FOR ST. LUCIE SCHOOL DISTRICT 9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986		
FOR CODE REVIEW:		08/26/2026
REVISIONS:		
	REVISION NAME	DATE
FOR BID:		08/26/2026
DRAWING TITLE:		
STRUCTURAL NOTES & ABBREVIATION		
COMMISSION NUMBER:		
26K014		
DO NOT SCALE THE DRAWINGS		
DRAWING NUMBER:		
S0.2		



NOTES:

1. "Ao" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN THE ABOVE TABLE ARE FOR ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +0.18.
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE, AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

LEGEND	
PATTERN	ZONE
	①
	①'
	②
	③



NOTE:
THE PLANS AND ELEVATIONS SHOWN HERE ARE FOR THE
PURPOSE OF SHOWING WIND PRESSURE ZONES ONLY. FOR
STRUCTURAL MEMBERS SEE APPROPRIATE PLANS, SCHEDULES
AND OTHER DETAILS.

CODE REVIEW:

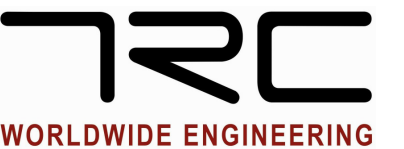
CERTIFICATE:



SPIEGLER ARCHITECTURAL GROUP INC.
80 ROYAL PALM POINT
SUITE 404
VERO BEACH, FL 32960
PHONE: 888.974.7666

SEAL & SIGNATURE:

CONSULTANTS:



WORLDWIDE ENGINEERING

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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

R

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2026

REVISIONS:

	REVISION NAME	DATE
---	---------------	------

FOR BID:

08/26/2026

DRAWING TITLE:

COMPONENTS AND
CLADDING DIAGRAM -
ADMINISTRATION -
BUILDING 1

COMMISSION NUMBER:

26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.5

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



2 SOUTH ELEVATION - AUDETERIA - BUILDING 3
S0.9 1/8" = 1'-0"

4 WEST ELEVATION - AUDETERIA - BUILDING 3
S0.9 1/8" = 1'-0"

CODE REVIEW:

spieze

SEAL & SIGNATURE: _____



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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODE:

PROJECT: _____

FOR

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34086

REVISIONS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

DRAWING TITLE:

COMMISSION NUMBER:
26K014

DRAWING NUMBER:

S0.9

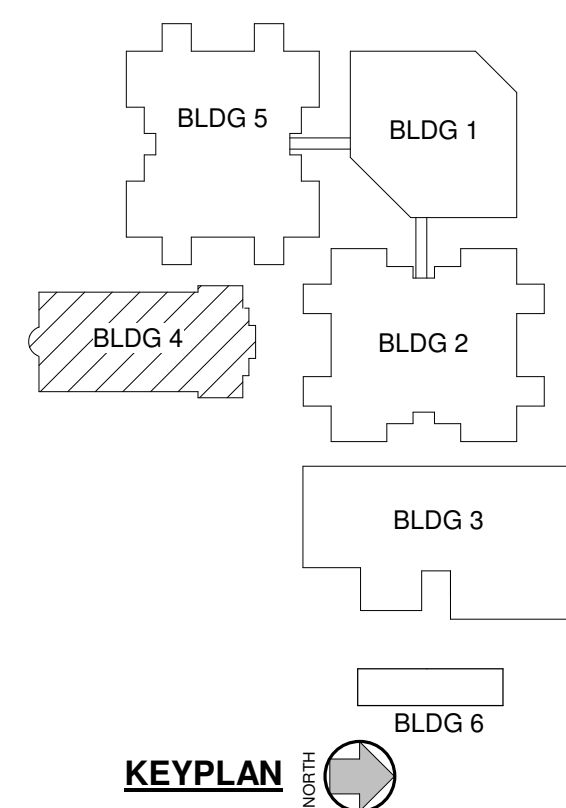
THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



COMPONENT & CLADDING <u>NOMINAL</u> WIND PRESSURES (ASD) - GYM (PER ASCE 7-22)															
ULTIMATE WIND SPEED, Vult		170 mph		RISK CATEGORY:			III			EDGE DISTANCE, a (ft)			10.8		
NOMINAL WIND SPEED, Vasd		132 mph		EXPOSURE CATEGORY:			C			ROOF SLOPE (DEGREES)			0.25/12		
				DIRECTIONALITY FACTOR, Kd =			0.85								
COMPONENT LOCATION				POSITIVE PRESSURES (psf)						NEGATIVE PRESSURES (psf)					
EFFECTIVE AREA, Ae (ft²)				10	20	50	100	200	500	10	20	50	100	200	500
ROOFS	ZONE 1			17.2	16.2	14.7	13.7	13.7	13.7	-67.6	-63.1	-57.2	-52.7	-48.3	-42.4
	ZONE 1'			17.2	16.2	14.7	13.7	13.7	13.7	-38.8	-38.8	-38.8	-38.8	-33.4	-26.2
	ZONE 2			17.2	16.2	14.7	13.7	13.7	13.7	-89.1	-83.4	-75.8	-70.1	-64.3	-56.8
	ZONE 3			17.2	16.2	14.7	13.7	13.7	13.7	-121.4	-110.0	-94.8	-83.4	-71.9	-56.8
	OVERHANG ZONE 1			17.2	16.2	14.7	13.7	13.7	13.7	-61.1	-60.0	-58.6	-57.5	-48.2	-35.9
	OVERHANG ZONE 1'			17.2	16.2	14.7	13.7	13.7	13.7	-61.1	-60.0	-58.6	-57.5	-48.2	-35.9
	OVERHANG ZONE 2			17.2	16.2	14.7	13.7	13.7	13.7	-82.6	-75.0	-64.9	-57.3	-49.6	-39.5
	OVERHANG ZONE 3			17.2	16.2	14.7	13.7	13.7	13.7	-115.0	-101.6	-83.9	-70.6	-57.2	-39.5
WALLS	ZONE 4			38.8	37.1	34.8	33.1	31.4	29.1	-42.0	-40.3	-38.0	-36.3	-34.6	-32.3
	ZONE 5			38.8	37.1	34.8	33.1	31.4	29.1	-51.7	-48.3	-43.8	-40.3	-36.9	-32.3
				CASE A						CASE B					
PARAPETS	INTERIOR ZONE			117.0	109.4	99.4	91.8	84.2	74.2	-69.1	-65.6	-61.0	-57.5	-54.0	-49.4
	CORNER ZONE			149.9	136.5	118.8	105.4	92.0	74.2	-79.0	-73.7	-66.8	-61.5	-56.3	-49.4

- NOTES:**
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
 2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
 3. PRESSURES VALUES IN THE ABOVE TABLE ARE FOR ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +/-0.18
 4. ALL OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
 5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
 6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE, AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
 7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

NOTE:
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PURPOSE OF SHOWING WIND PRESSURE ZONES ONLY. FOR
STRUCTURAL MEMBERS SEE APPROPRIATE PLANS, SCHEDULES
AND OTHER DETAILS.



CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
80 ROYAL PALM POINT
SUITE 404
VERO BEACH, FL 32960
PHONE: 866.974.7666

SEAL & SIGNATURE:

CONSULTANTS:



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PLANTATION, FL 33322

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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
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COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODE

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2026

REVISIONS:

	REVISION NAME	DATE
---	---------------	------

FOR BID:

08/26/2026

DRAWING TITLE:

COMPONENTS AND
CLADDING DIAGRAM -
GYM - BUILDING 4

100

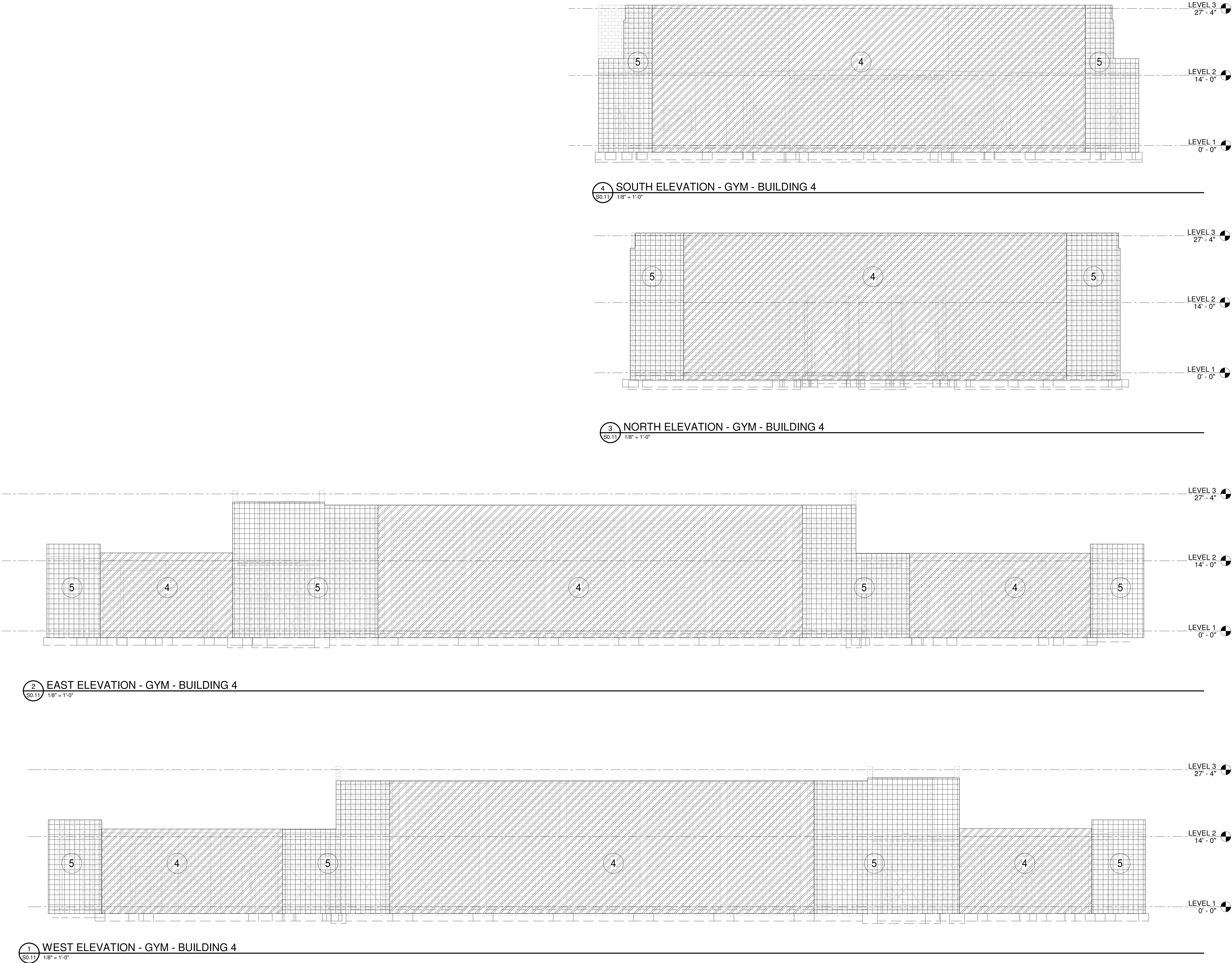
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.10

3"=1'-0"
1 1/2"=1'-0"
1"=1'-0"
3/4"=1'-0"
1/2"=1'-0"
3/8"=1'-0"
1/4"=1'-0"
1/8"=1'-0"



NOTE:
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SPIEZZLE ARCHITECTURAL GROUP INC.
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VERO BEACH, FL 32960
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**BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026**

PROJECT:

**ST. LUCIE GREEN ZONE K-8
SCHOOL**

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2026

REVISIONS:

REVISION	REVISION NAME	DATE
1		

FOR BID:

08/26/2026

DRAWING TITLE:

**COMPONENTS AND
CLADDING DIAGRAM -
GYM - BUILDING 4**

COMMISSION NUMBER:

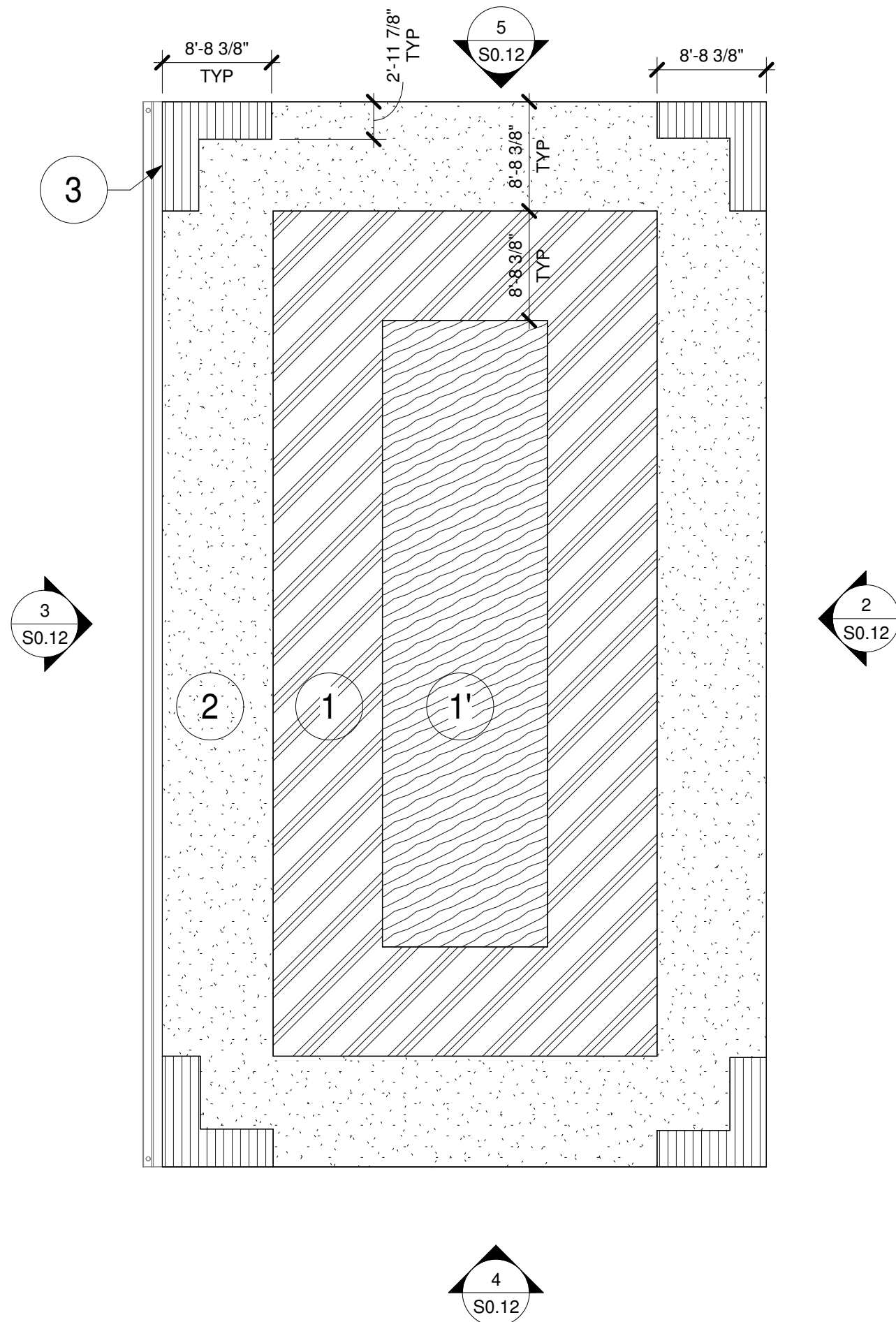
26K014

DO NOT SCALE THE DRAWINGS

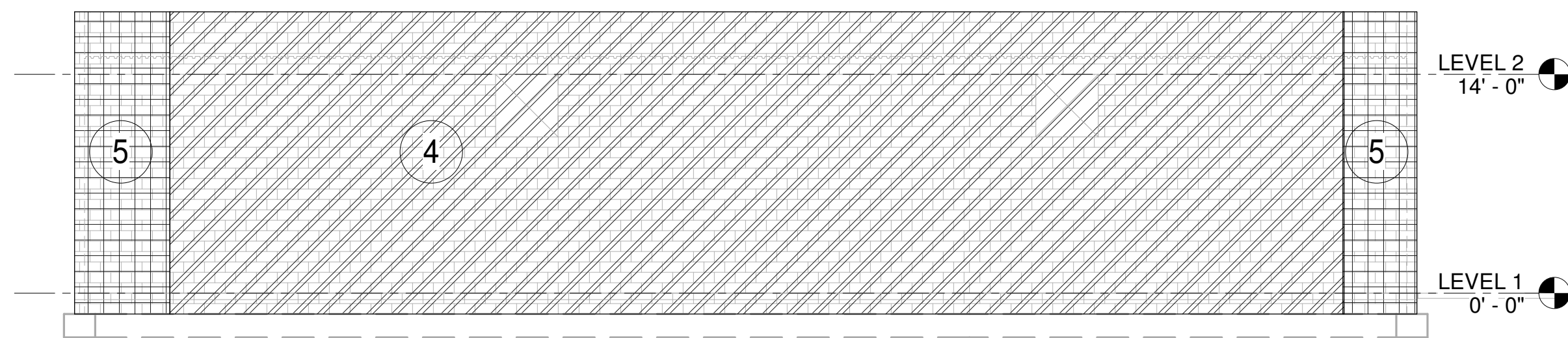
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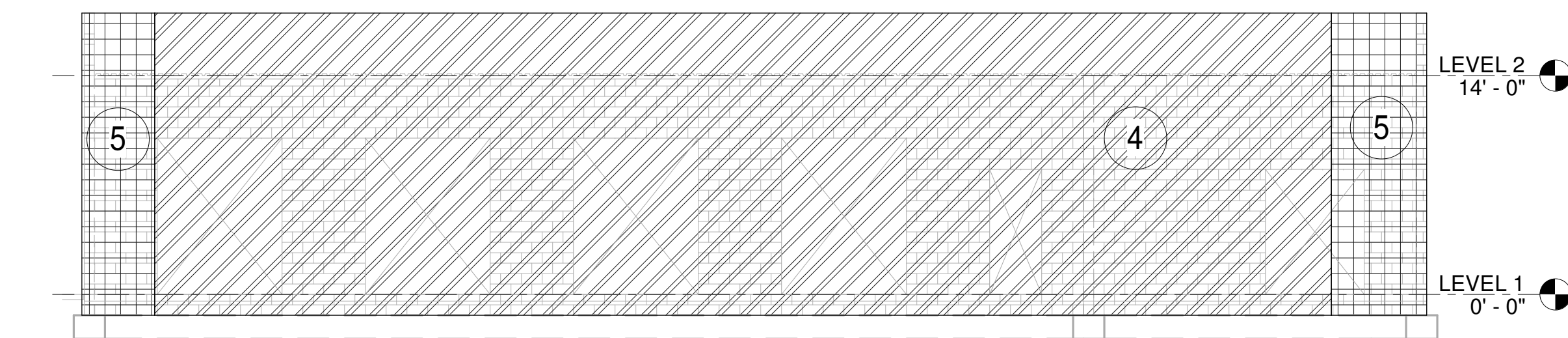
LEGEND	
PATTERN	ZONE
	1
	1'
	2
	3



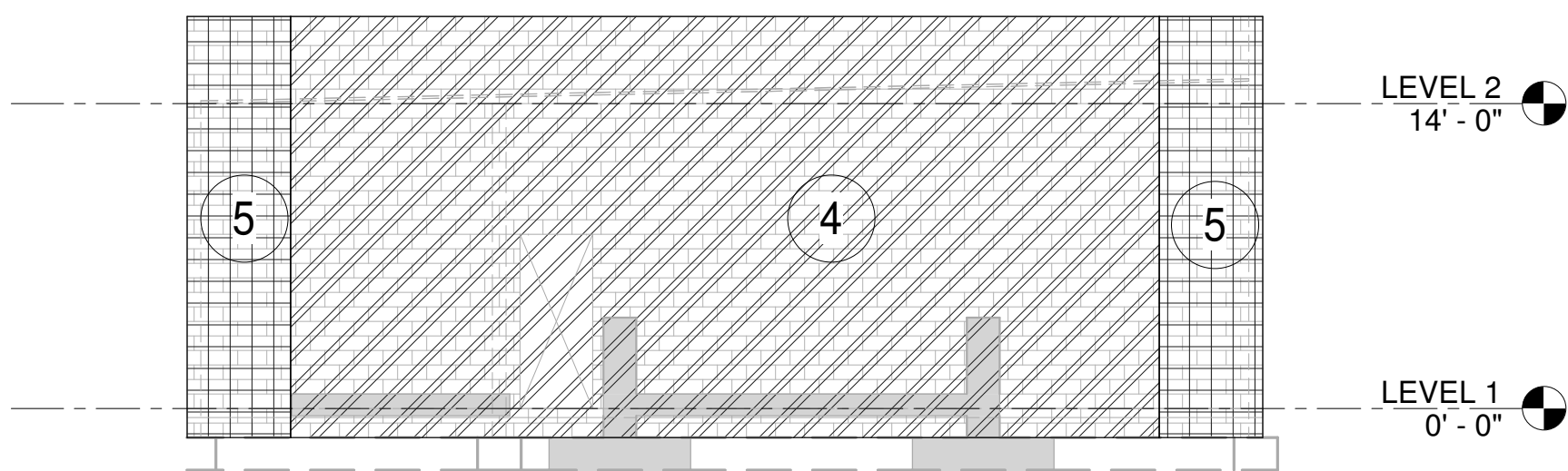
1 COMPONENTS AND CLADDING DIAGRAM - CHILLER - BUILDING 6
3/32" = 1'-0"



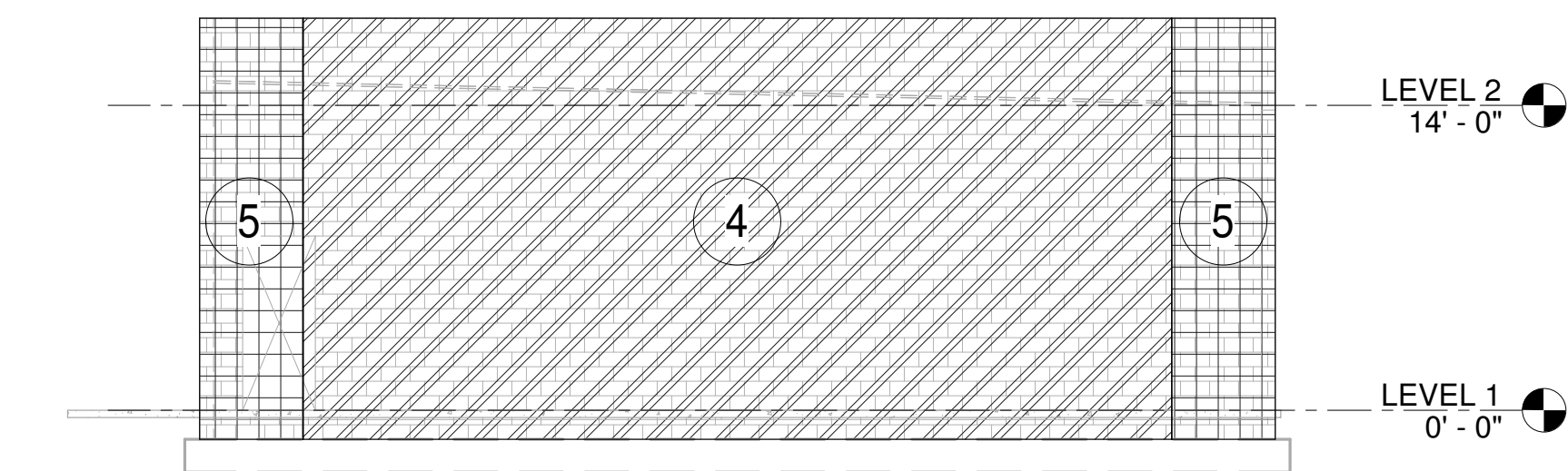
2 NORTH ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"



3 SOUTH ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"

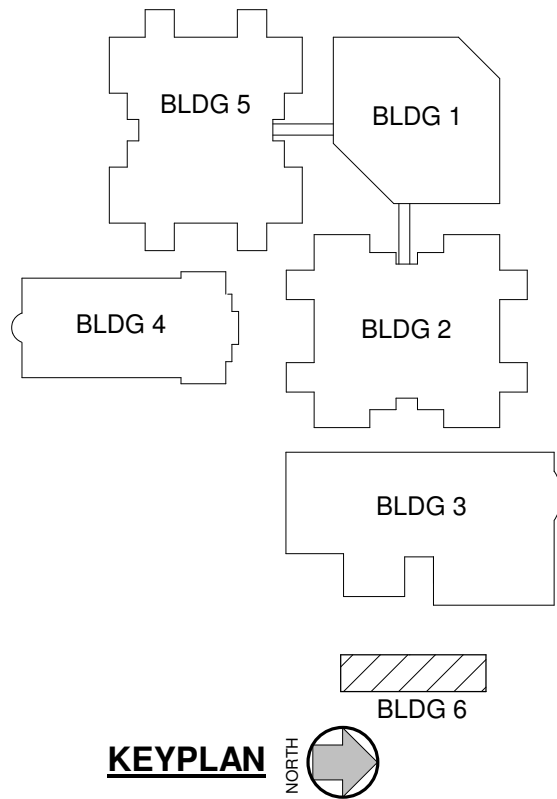


4 EAST ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"



5 WEST ELEVATION- CHILLER - BUILDING 6
1/8" = 1'-0"

NOTE:
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PURPOSE OF SHOWING WIND PRESSURE ZONES ONLY. FOR
STRUCTURAL MEMBERS SEE APPROPRIATE PLANS, SCHEDULES
AND OTHER DETAILS.



COMPONENT & CLADDING <u>NOMINAL</u> WIND PRESSURES (ASD) - CHILLER (PER ASCE 7-22)																	
ULTIMATE WIND SPEED, Vult		170 mph		RISK CATEGORY:			III			EDGE DISTANCE, a (ft)			4.9				
NOMINAL WIND SPEED, Vasd		132 mph		EXPOSURE CATEGORY:			C			ROOF SLOPE (DEGREES)			0.25/12				
				DIRECTIONALITY FACTOR, Kd =			0.85			MEAN ROOF HT, h (FT)			14.5				
COMPONENT LOCATION				POSITIVE PRESSURES (psf)							NEGATIVE PRESSURES (psf)						
EFFECTIVE AREA, Ae (ft²)				10	20	50	100	200	500	10	20	50	100	200	500		
ROOFS	ZONE 1	15.4	14.4	13.2	12.2	12.2	12.2	-60.4	-56.4	-51.1	-47.1	-43.2	-37.9				
	ZONE 1'	15.4	14.4	13.2	12.2	12.2	12.2	-34.7	-34.7	-34.7	-34.7	-29.9	-23.5				
	ZONE 2	15.4	14.4	13.2	12.2	12.2	12.2	-79.6	-74.5	-67.8	-62.6	-57.5	-50.7				
	ZONE 3	15.4	14.4	13.2	12.2	12.2	12.2	-108.6	-98.3	-84.8	-74.5	-64.3	-50.7				
	OVERHANG ZONE 1	15.4	14.4	13.2	12.2	12.2	12.2	-54.6	-53.6	-52.4	-51.4	-43.1	-32.1				
	OVERHANG ZONE 1'	15.4	14.4	13.2	12.2	12.2	12.2	-54.6	-53.6	-52.4	-51.4	-43.1	-32.1				
	OVERHANG ZONE 2	15.4	14.4	13.2	12.2	12.2	12.2	-73.9	-67.0	-58.0	-51.2	-44.4	-35.3				
	OVERHANG ZONE 3	15.4	14.4	13.2	12.2	12.2	12.2	-102.8	-90.8	-75.0	-63.1	-51.1	-35.3				
WALLS	ZONE 4	34.7	33.1	33.1	29.6	28.0	26.0	-37.6	-36.0	-34.0	-32.5	-30.9	-28.9				
	ZONE 5	34.7	33.1	33.1	29.6	28.0	26.0	-46.2	-43.2	-39.1	-36.0	-33.0	-28.9				
		CASE A							CASE B								
PARAPETS	INTERIOR ZONE	106.7	99.8	90.6	83.7	76.8	67.7	-63.0	-59.8	-55.6	-52.4	-46.2	-45.0				
	CORNER ZONE	136.7	124.4	108.3	96.1	83.8	67.7	-72.0	-67.2	-60.9	-56.1	-51.3	-45.0				

NOTES:

1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURES VALUES IN THE ABOVE TABLE ARE FOR ENCLOSED BUILDING CONDITION WITH INTERNAL PRESSURE COEFFICIENT OF +/-0.18
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 10PSF (ULTIMATE VALUE) OR 10PSF (NOMINAL VALUE).
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CODE REVIEW:

CERTIFICATE:



SPIEZLE ARCHITECTURAL GROUP INC.
80 ROYAL PALM POINT
SUITE 404
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SEAL & SIGNATURE:

CONSULTANTS:



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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
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COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2026

REVISIONS:

#	REVISION NAME	DATE
---	---------------	------

FOR BID:

08/26/2026

DRAWING TITLE:

COMPONENTS AND
CLADDING DIAGRAM -
CHILLER - BUILDING 6

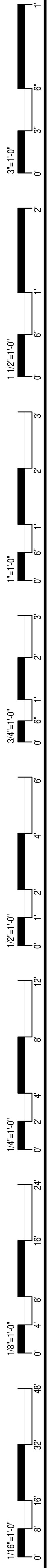
COMMISSION NUMBER:

26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S0.12



S0.13 $1/16'' = 1'-0''$



NOTE: SUPERIMPOSED DEAD LOADS LISTED ABOVE INCLUDE 5 PSF ALLOWANCE FOR SPRINKLER PIPES WHICH IS A SUFFICIENT ALLOWANCE.

* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD.



CODE REVIEW:

CERTIFICATE:



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COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODE

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2028

REVISIONS:

	REVISION NAME	DATE
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FOR BID:

08/26/2028

DRAWING TITLE:

GRAVITY LOADING PLAN-
ADMINISTRATION -
BUILDING 1

COMMISSION NUMBER:
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

Page 12

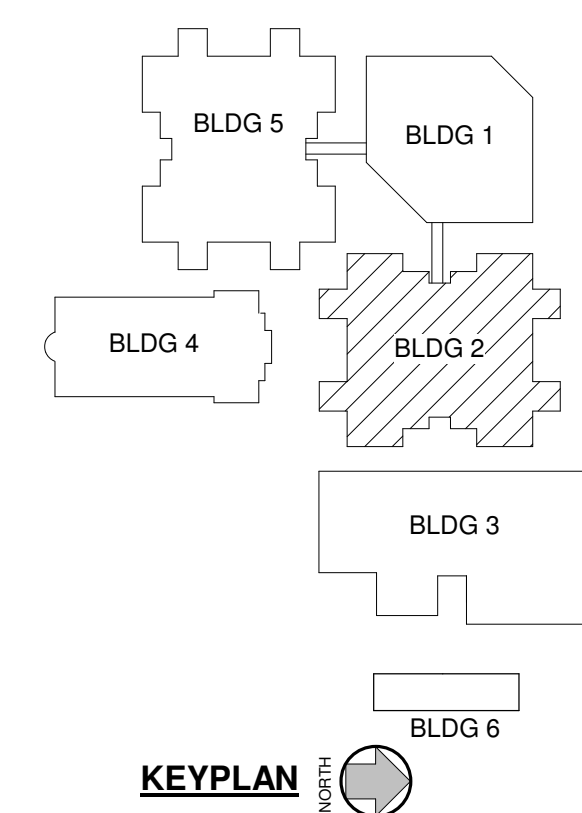
S0.13

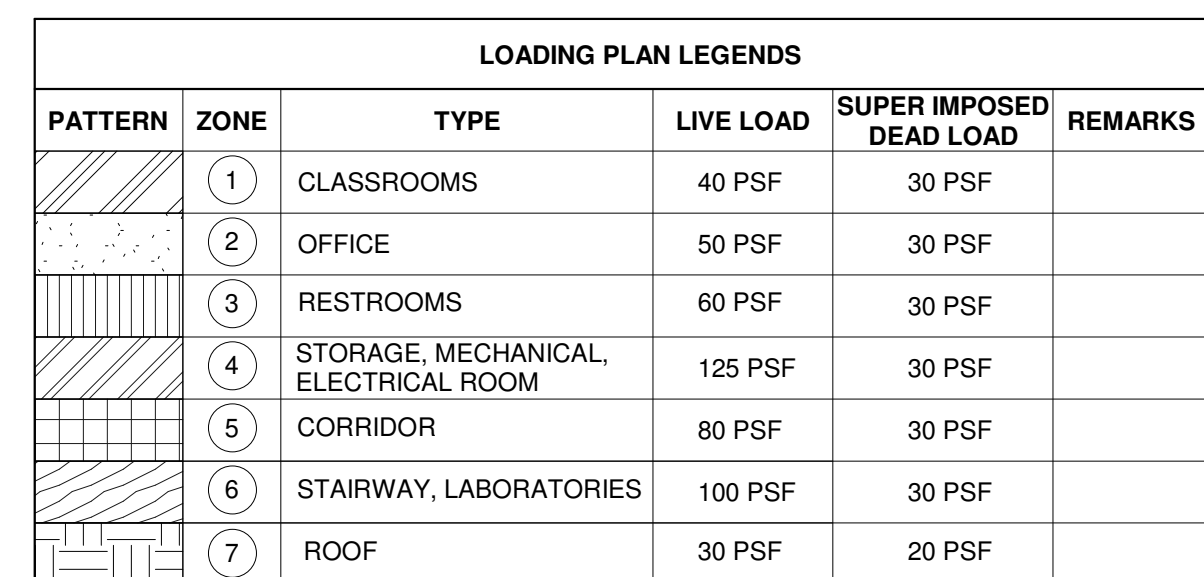
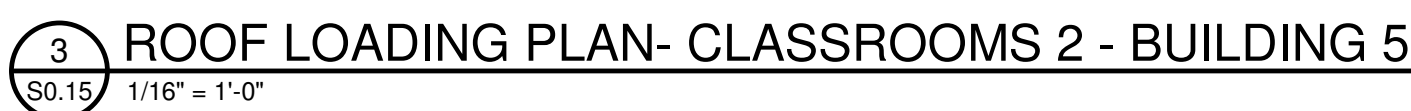
THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



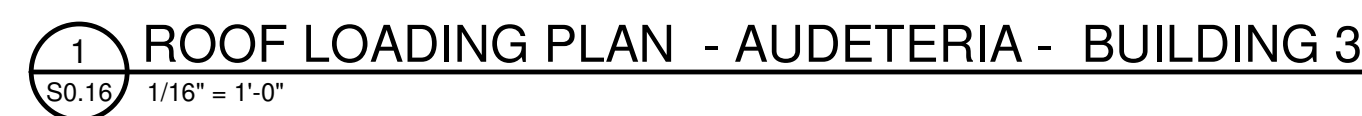
NOTE: SUPERIMPOSED DEAD LOADS LISTED ABOVE INCLUDE 5 PSF ALLOWANCE FOR SPRINKLER PIPES WHICH IS A SUFFICIENT ALLOWANCE

* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD.



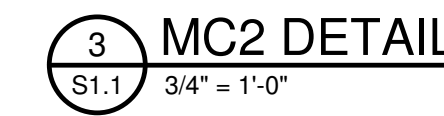


The site plan shows five buildings labeled BLDG 1 through BLDG 5. BLDG 1 is a large, irregular polygon at the top right. BLDG 2 is a large, irregular polygon at the bottom right. BLDG 3 is a large, irregular polygon at the bottom center. BLDG 4 is a small, irregular polygon at the bottom left. BLDG 5 is a small, irregular polygon at the top left, filled with diagonal hatching. A north arrow is located at the bottom center, pointing upwards. The text 'KEYPLAN' is written in a bold, sans-serif font at the bottom left, with 'NORTH' written in a smaller font above it.

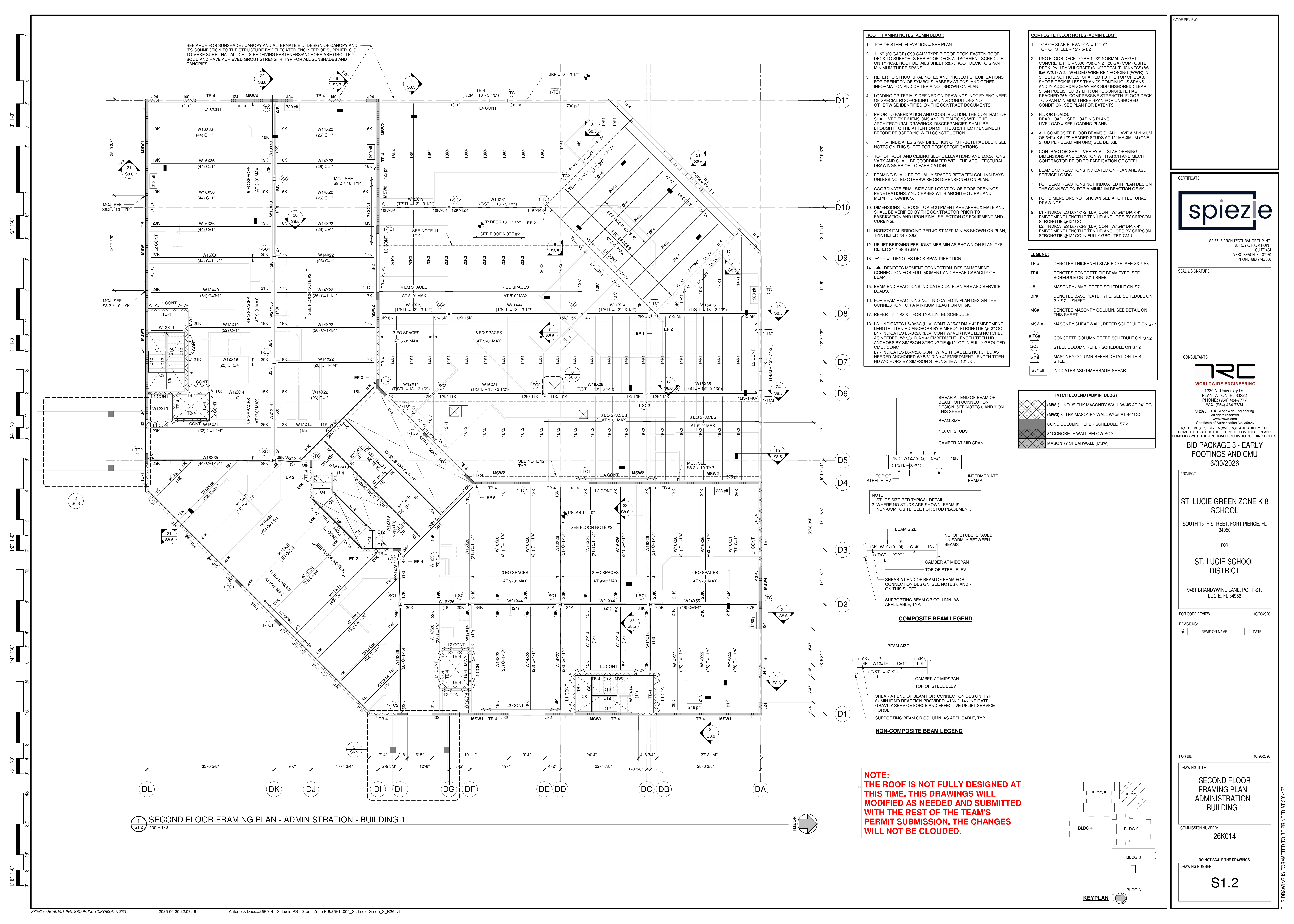


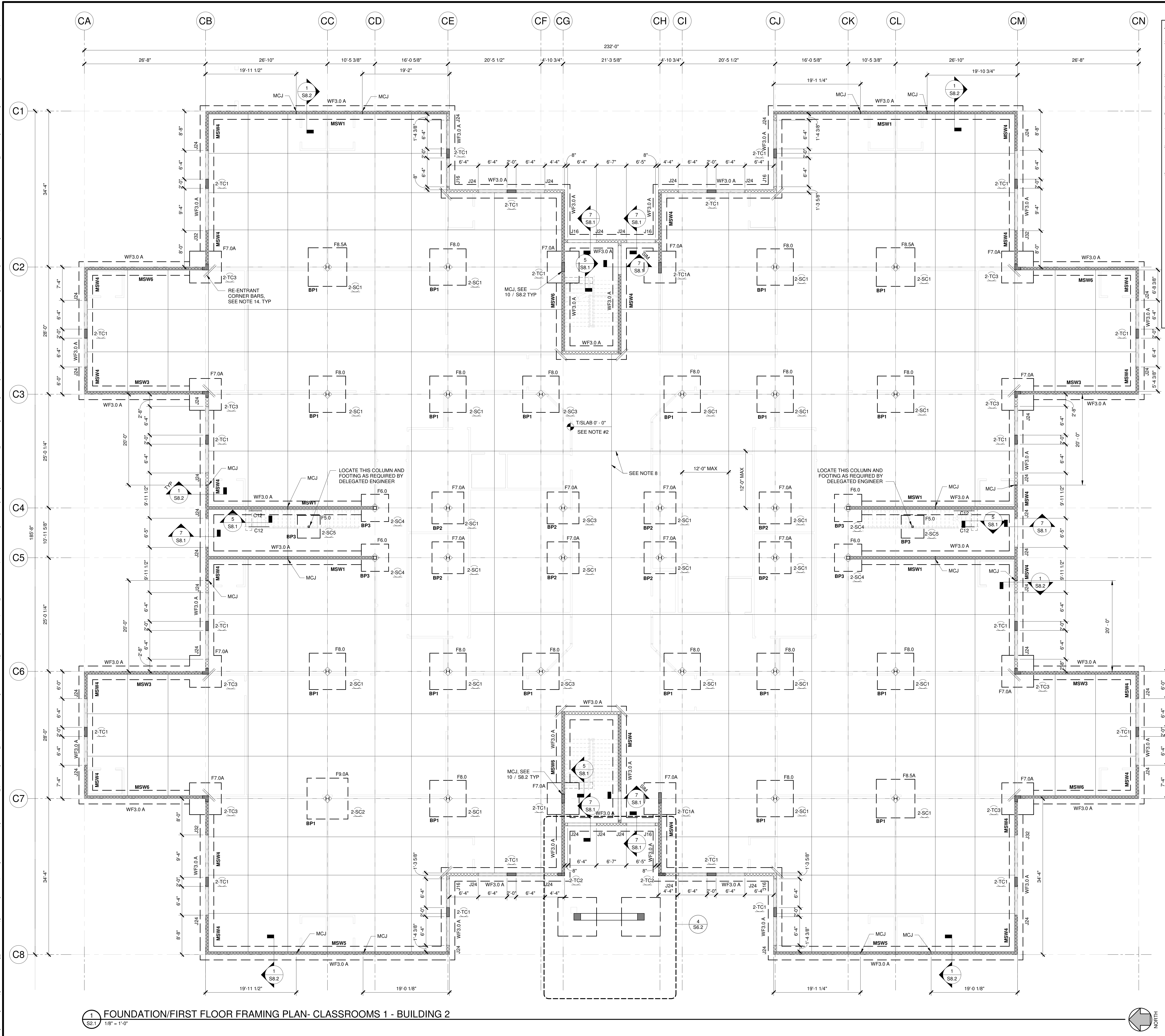
* INCLUDES A NON-REDUCIBLE 15 PSF PARTITION LOAD.





HATCH LEGEND (ADMIN BLDG)	
	(MW1) UNO, 8" THK MASONRY WALL W/ #5 AT 24" OC
	(MW2) 8" THK MASONRY WALL W/ #5 AT 40" OC
	CONC COLUMN, REFER SCHEDULE S7.2
	8" CONCRETE WALL BELOW SOG
	MASONRY SHEARWALL (MSW)





- FOUNDATION & GROUND FLOOR PLAN NOTES (CLASSROOM BLDG 2 & 5):**
1. FIRST FLOOR SLAB - REFERENCE ELEVATION 0'-0" U.N.O.
 2. PROVIDE 5" THICK CONCRETE SLAB ON GRADE REINF W/ #6 W14XW14 WWR IN SHEETS (NOT ROLLS) CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH. REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 3. SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
 4. TOP OF ALL FOOTINGS SHALL BE -1'-4" U.N.O.
 5. CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS. U.N.O
 6. STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1
 7. FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS
 8. PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CJ AT CONTRACTOR'S DISCRETION, REFER AND SEE 3 / S8.1.
 9. FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1.
 10. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 11. CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES. U.N.O.
 12. CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
 13. FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
 14. RE-ENTRANT CORNER BARS (TYP). SEE DETAIL 13 / S8.1
 15. SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES
 16. SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
 17. SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG
 18. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 19. SEE STRUCTURAL NOTES AND GEOTECH REPORT FOR BEARING PRESSURE AND VIBRO REPLACEMENT STONE COLUMN FOUNDATION.

- LEGEND:**
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
- TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
- J# MASONRY JAMB, REFER SCHEDULE ON S7.1
- BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
- MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
- MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
- 2-TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
- SC# STEEL COLUMN REFER SCHEDULE ON S7.2
- MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
- ### pH INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND	
(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	

CODE REVIEW:

CERTIFICATE:



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**BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026**

PROJECT:

**ST. LUCIE GREEN ZONE K-8
SCHOOL**

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:		
#	REVISION NAME	DATE

FOR BID: 08/26/2026

DRAWING TITLE:

**FOUNDATION/FIRST
FLOOR FRAMING PLAN-
CLASSROOMS 1 -
BUILDING 2**

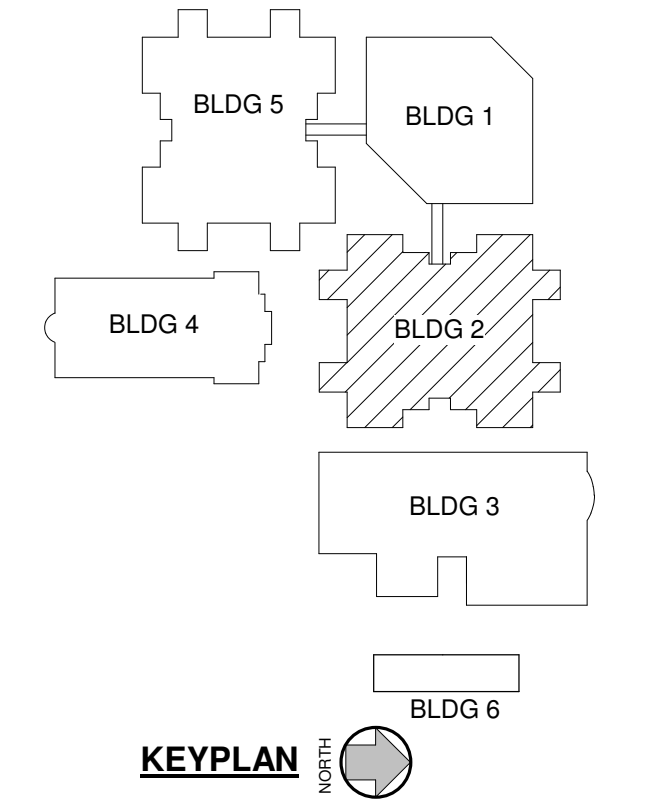
COMMISSION NUMBER:

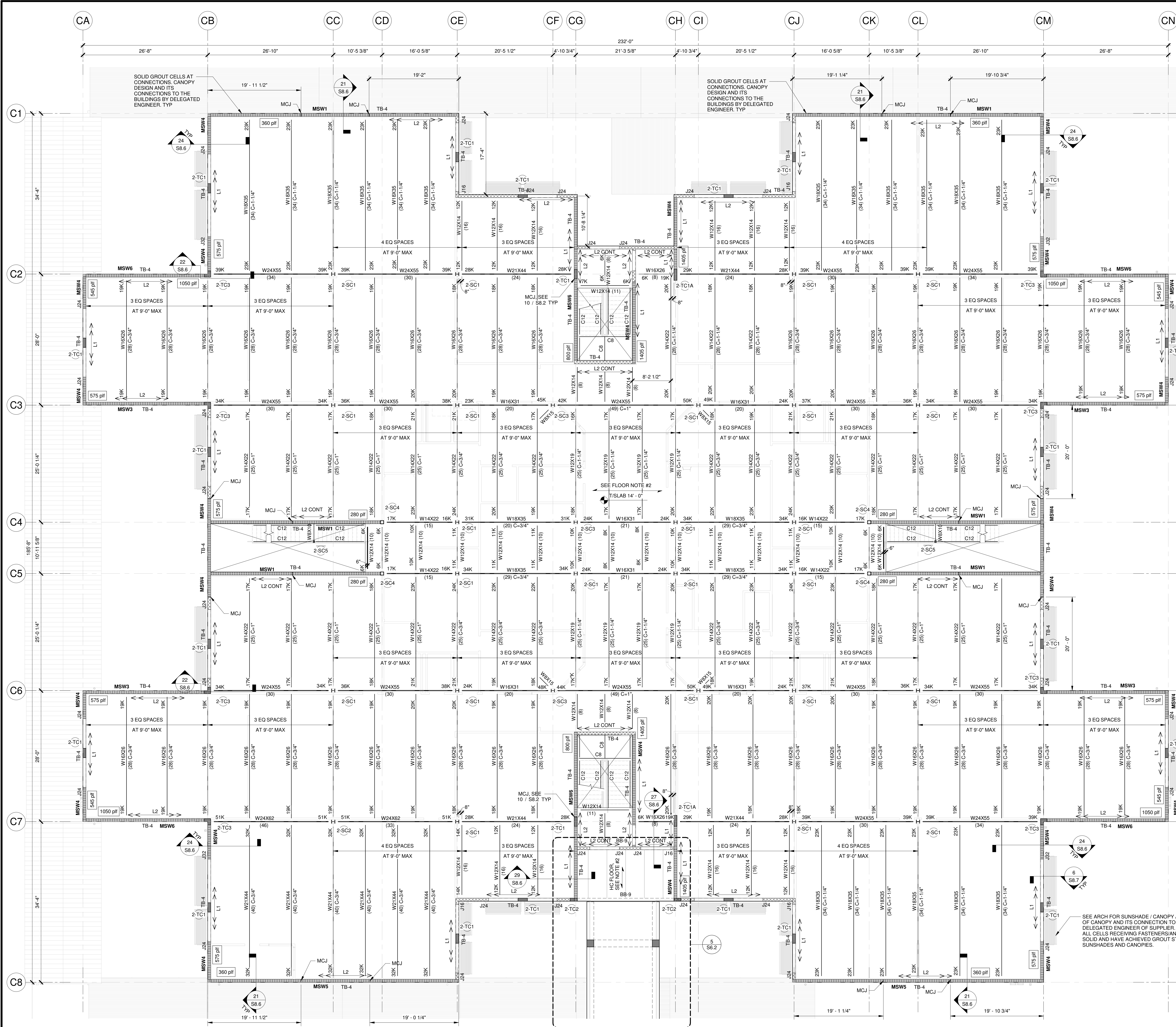
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S2.1



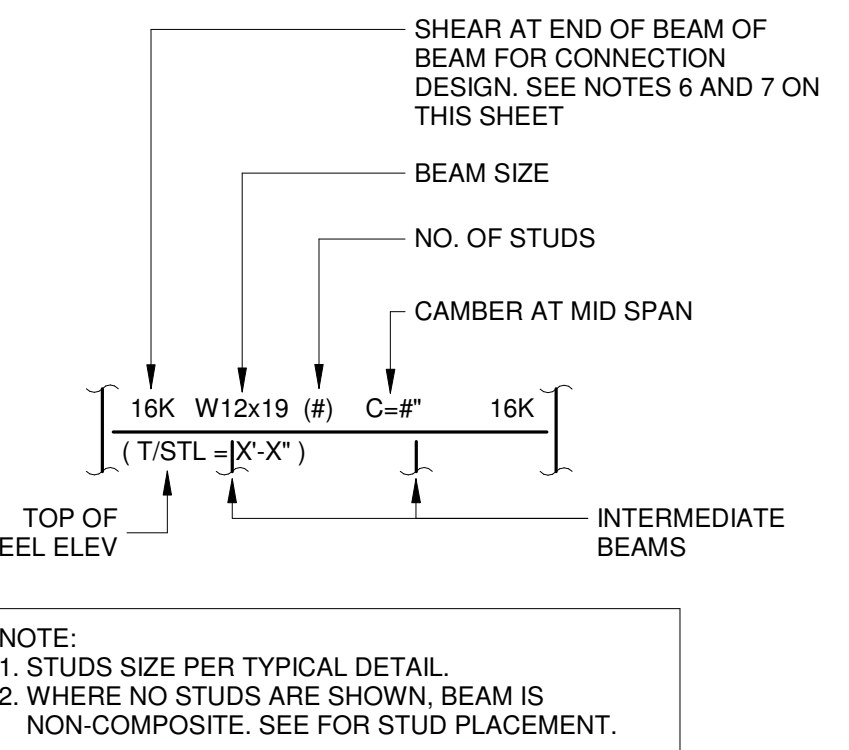


1 SECOND FLOOR FRAMING PLAN- CLASSROOMS 1 - BUILDING 2
S2.2 1/8" = 1'-0"

- COMPOSITE FLOOR NOTES (CLASSROOM 2 & 5):**
1. TOP OF SLAB ELEVATION = +14'-0".
TOP OF STEEL = 13'-5 1/2".
 2. UNO FLOOR DECK TO BE 4 1/2" NORMAL WEIGHT CONCRETE (FC = 3000 PSI) ON 2" (20 GA) COMPOSITE DECK, 2VLI BY VULCRAFT (6 1/2" TOTAL THICKNESS) W/ 6x6-W2.1xW2.1 WELDED WIRE REINFORCING (WWR) IN SHEETS NOT ROLLS, CHAIRED TO THE TOP OF SLAB. SHORE DECK IF LESS THAN (3) CONTINUOUS SPANS AND IN ACCORDANCE W/ MAX SDI UNSHORED CLEAR SPAN PUBLISHED BY MFR UNTIL CONCRETE HAS REACHED 75% COMPRESSIVE STRENGTH. FLOOR DECK TO SPAN MINIMUM THREE SPAN FOR UNSHORED CONDITION. SEE PLAN FOR EXTENTS AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION. FLOOR TO BE 8" HOLLOW CORE PRECAST PLANKS, 8HC WITH MINIMUM 2" TOPPING REINFORCED W/ 6x6-W2.1xW2.1 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
 3. FLOOR LOADS:
DEAD LOAD - SEE LOADING PLANS
LIVE LOAD - SEE LOADING PLANS
 4. ALL COMPOSITE FLOOR BEAMS SHALL HAVE A MINIMUM OF 3/4" x 5 1/2" HEADED STUDS AT 12" MAXIMUM (ONE STUD PER BEAM MIN UNO) SEE DETAIL.
 5. CONTRACTOR SHALL VERIFY ALL SLAB OPENING DIMENSIONS AND LOCATION WITH ARCH AND MECH CONTRACTOR PRIOR TO FABRICATION OF STEEL.
 6. BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
 7. FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
 8. FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.
 9. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 10. L1 - INDICATES L6x4x1/2 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @912" OC IN FULLY GROUTED CMU / CONC
L2 - INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

- LEGEND:**
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
TB# DENOTES CONCRETE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
J# MASONRY JAMB, REFER SCHEDULE ON S7.1
BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
#TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
SC# STEEL COLUMN REFER SCHEDULE ON S7.2
MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
p# INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND	
(MW1) UNO 6" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	



CODE REVIEW:

CERTIFICATE:

spiezie

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BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL
SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT
9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:

REVISION NAME	DATE
1	

FOR BID: 08/26/2026

DRAWING TITLE:

SECOND FLOOR FRAMING PLAN- CLASSROOMS 1 - BUILDING 2

COMMISSION NUMBER:

26K014

DO NOT SCALE THE DRAWINGS

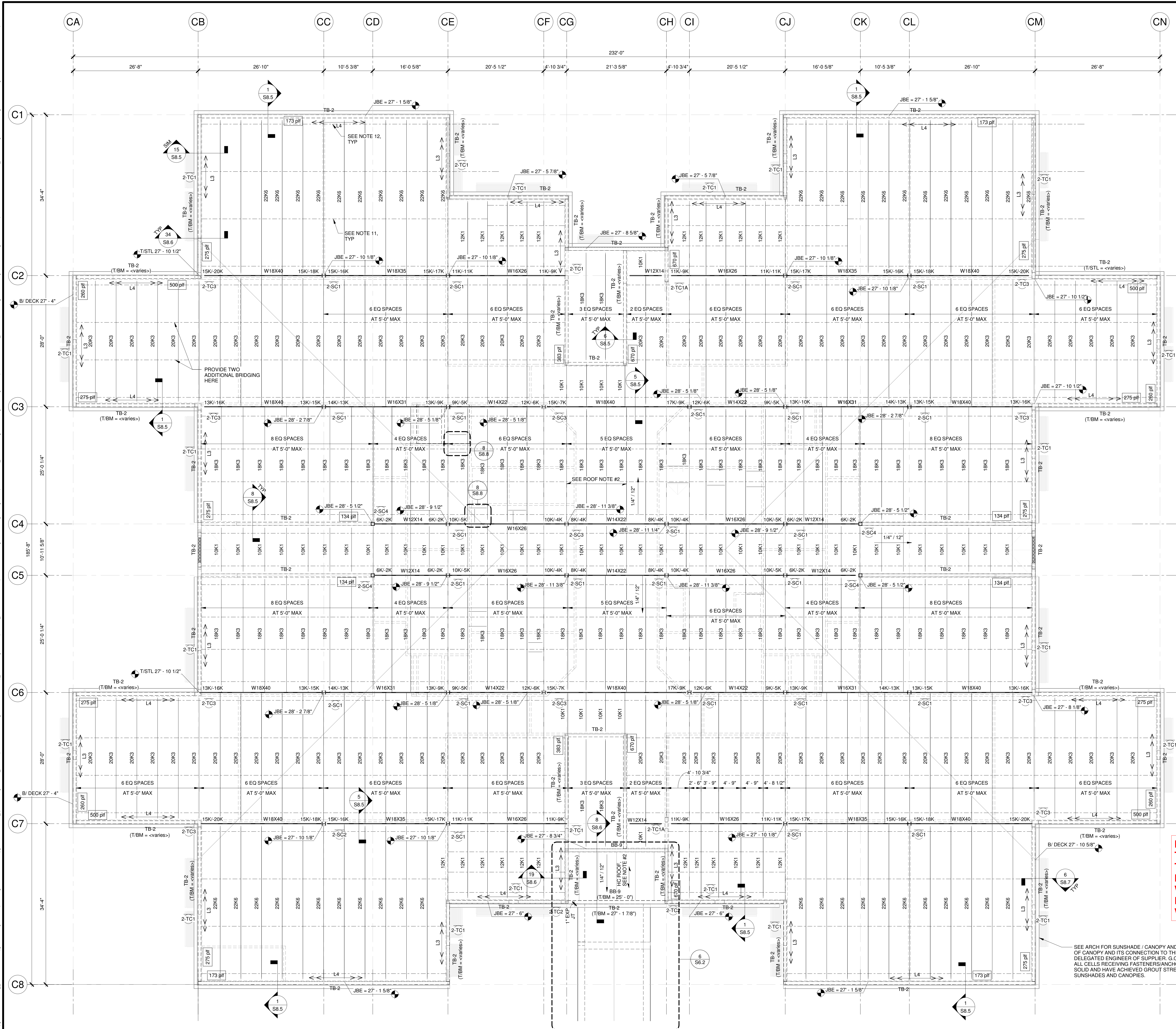
DRAWING NUMBER:

S2.2

KEYPLAN

BLDG 5 BLDG 1
BLDG 4 BLDG 2
BLDG 3 BLDG 6

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"

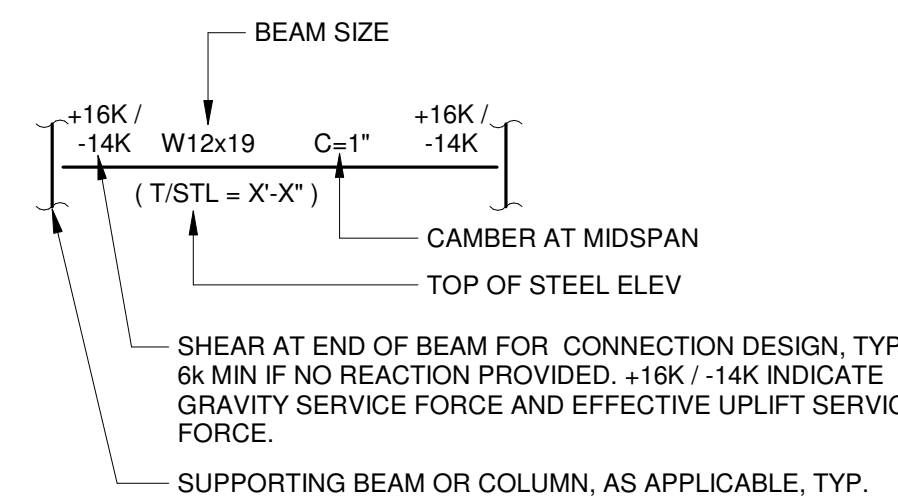


1 ROOF FRAMING PLAN- CLASSROOMS 1 - BUILDING 2

- ROOF FRAMING NOTES: CLASSROOM 2 & 4:
1. 1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK. FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET S8.8. ROOF DECK TO SPAN MINIMUM THREE SPANS AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION. ROOF TO BE 6" HOLLOW CORE PRECAST PLANKS, 6HC WITH 2" TOPPING REINFORCED W/ 6x6-W2.1XW2.1 SLOPE OF HOLLOW CORE AND TOPPING TO MATCH THE METAL ROOF DECK.
 3. REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
 4. LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF/CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
 5. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 6. INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
 7. TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
 8. FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
 9. COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
 10. DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
 11. HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / S8.6
 12. UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / S8.6 (SIM)
 13. DENOTES MOMENT CONNECTION. DESIGN MOMENT CONNECTION FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM.
 14. BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
 15. FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
 16. THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN W/ 2" MIN. CONCRETE TOPPING REINW W/ 6x6-W2.1XW2.1 WIRE MESH REINFORCEMENT (USE FLAT SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TOPPING.
 17. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 18. L3- INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC
 - L4- INDICATES L5x3x3/8 (LLV) CONT W/ VERTICAL LEG NOTCHED AS NEEDED W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

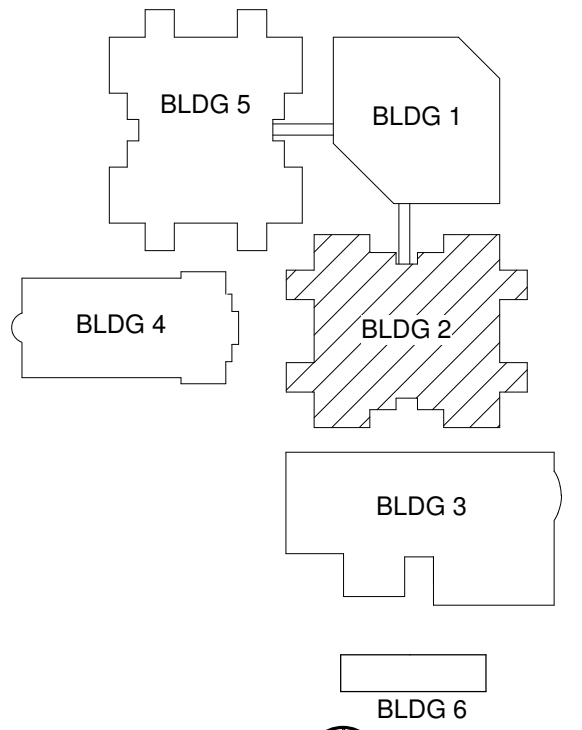
- LEGEND:
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
 - TB-# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
 - J# MASONRY JAMB, REFER SCHEDULE ON S7.1
 - BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
 - MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
 - MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
 - #-TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
 - #-SC# STEEL COLUMN REFER SCHEDULE ON S7.2
 - #-MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
 - ### p#f INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM MATCH LEGEND	
	(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC
	CONC COLUMN, REFER SCHEDULE S7.2
	MASONRY SHEARWALL



NON-COMPOSITE BEAM LEGEND

NOTE:
THE ROOF IS NOT FULLY DESIGNED AT THIS TIME. THIS DRAWINGS WILL MODIFIED AS NEEDED AND SUBMITTED WITH THE REST OF THE TEAM'S PERMIT SUBMISSION. THE CHANGES WILL NOT BE CLOUDED.



CODE REVIEW:

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BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT

9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:
#1 REVISION NAME DATE

FOR BID: 08/26/2026

DRAWING TITLE:

ROOF FRAMING PLAN- CLASSROOMS 1 - BUILDING 2

COMMISSION NUMBER:

26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S2.3



1 FOUNDATION/FIRST FLOOR FRAMING PLAN - AUDETERIA - BUILDING 3

FOUNDATION & GROUND FLOOR PLAN NOTES:

1. FIRST FLOOR SLAB - REFERENCE ELEVATION 0'-0" U.N.O.
2. PROVIDE 5" THICK 4,000 PSI NW (145 PCF) CONCRETE SLAB ON GRADE REINF W/ #6 W1.4XW1.4 WWR IN SHEETS NOT ROLLS CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH. REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
3. PROVIDE 7" THICK 4,000 PSI NW CONCRETE SLAB ON GRADE REINF W/ #6 W2.4XW2.4 WWR IN SHEETS NOT ROLLS CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCH. REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
4. SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
5. TOP OF ALL FOOTINGS SHALL BE -1'-4" U.N.O.
6. CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS. U.N.O.
7. STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1.
8. FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS.
9. PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CJ AT CONTRACTOR'S DISCRETION, REFER AND SEE 3 / S8.1.

FOUNDATION & GROUND FLOOR PLAN NOTES:

10. FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1.
11. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES. U.N.O.
13. CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
14. FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
15. RE-ENTRANT CORNER BARS (TYP). SEE DETAIL 13 / S8.1.
16. SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES.
17. SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
18. SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG.
19. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE.

LEGEND:

TE-# DENOTES THICKENED SLAB EDGE. SEE 33 / S8.1

TB# DENOTES CONCRETE TIE BEAM TYPE. SEE SCHEDULE ON S7.1 SHEET

J# MASONRY JAMB, REFER SCHEDULE ON S7.1

BP# DENOTES BASE PLATE TYPE. SEE SCHEDULE ON 2 / S7.1 SHEET

MC# DENOTES MASONRY COLUMN. SEE DETAIL ON THIS SHEET

MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1

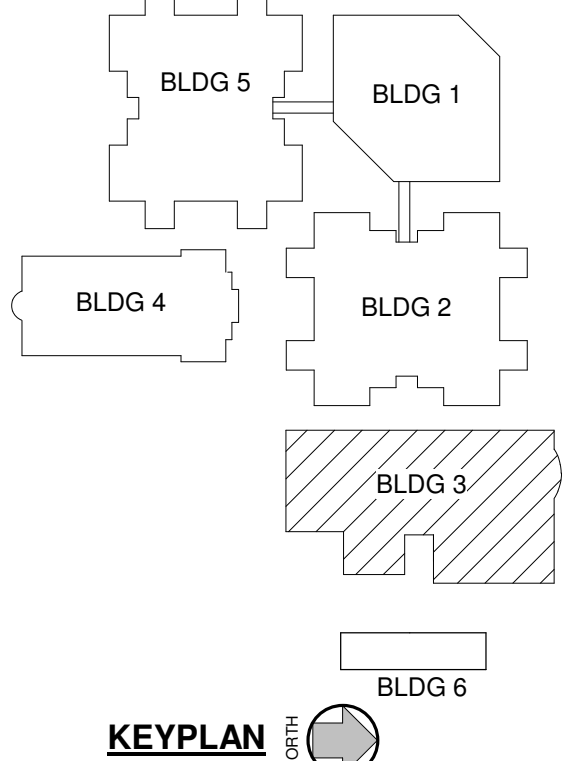
#TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2

#SC# STEEL COLUMN REFER SCHEDULE ON S7.2

#MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET

pH INDICATES ASD DIAPHRAGM SHEAR.

AUDETERIA HATCH LEGEND	
(MW3) 8" THK MASONRY WALL W/ #5 AT 48" OC	
(MW4) 12" THK MASONRY WALL W/ #5 AT 24" OC	
(MW5) 12" THK MASONRY WALL W/ #6 AT 24" OC	
(MW6) 12" THK MASONRY WALL W/ #6 AT 32" OC	
(MW8) 12" THK MASONRY WALL W/ #6 AT 8" OC	
(MW9) 12" THK MASONRY WALL W/ #6 AT 16" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
CONCRETE WALL	
MASONRY SHEARWALL - 12" THK	
ALL EXTERIOR WALLS TO BE SOLID GROUTED	



CODE REVIEW:

CERTIFICATE:



SPIEZE ARCHITECTURAL GROUP INC.
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Certificate of Authorization No. 35826
TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

**BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026**

PROJECT:

**ST. LUCIE GREEN ZONE K-8
SCHOOL**

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

**ST. LUCIE SCHOOL
DISTRICT**

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:
#1 REVISION NAME DATE

FOR BID: 08/26/2026

DRAWING TITLE:

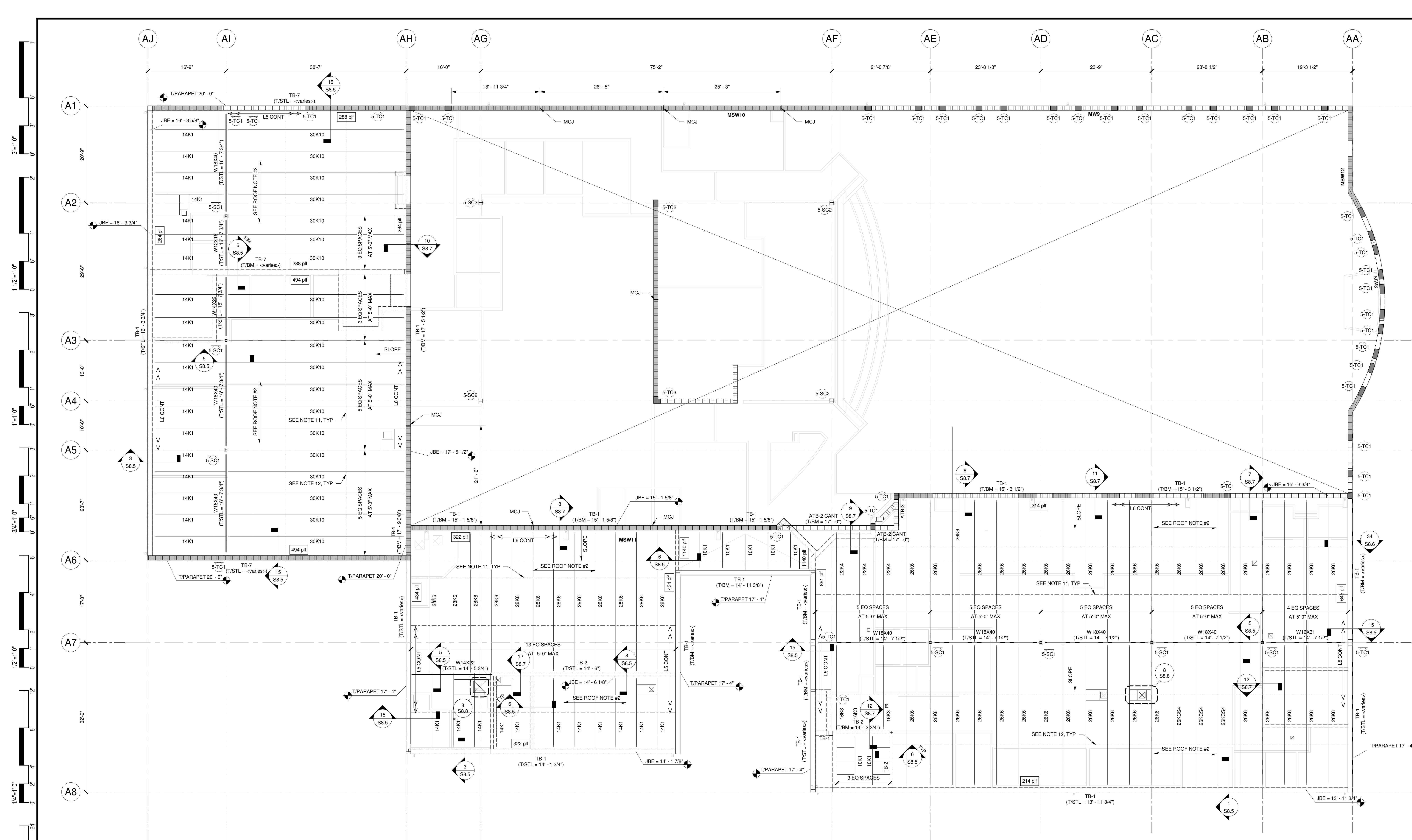
**FOUNDATION/FIRST
FLOOR FRAMING PLAN-
AUDETERIA - BUILDING 3**

COMMISSION NUMBER:
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S3.1



1 LOW ROOF FRAMING PLAN - AUDETERIA - BUILDING 3
S3.2 1/8" = 1'-0"

ROOF FRAMING NOTES:

1. TOP OF STEEL ELEVATION - SEE PLAN.
2. 1-1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK, FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET S8.8 ROOF DECK TO SPAN MINIMUM THREE SPANS.
3. REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
4. LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
5. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
6. -> INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
7. TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
8. FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.

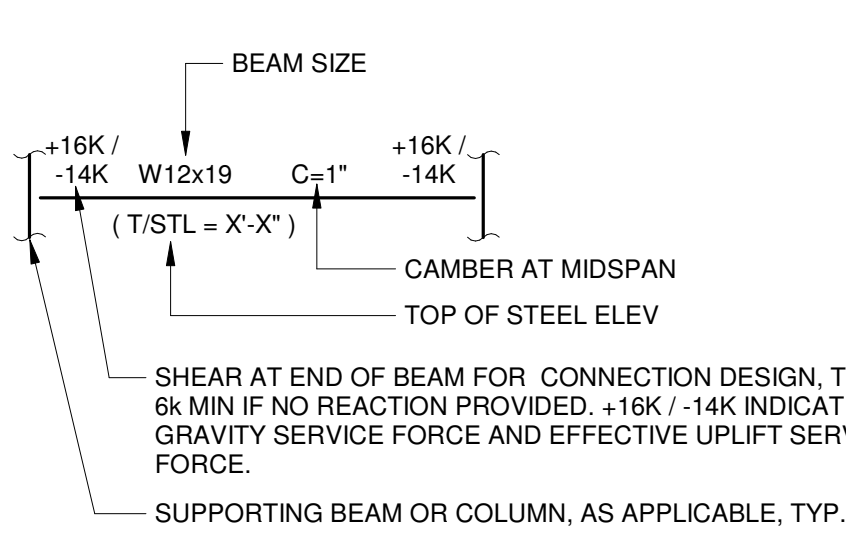
ROOF FRAMING NOTES:

9. COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
10. DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
11. HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP.
12. CROSS BRIDGING IN SPACE ADJACENT TO WALL BY JOIST MFR, TYP.
13. UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP.
14. BRIDGING BY JOIST MFR UNO, SEE 34 / S8.6 FOR DETAILS.
15. -> DENOTES DECK SPAN DIRECTION.
16. -> DENOTES MOMENT CONNECTION DESIGN MOMENT CONNECTION FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM.
17. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
18. L5 - INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU/ CONC
19. L6 - INDICATES L5x3x3/8 (LLV) W/ VERTICAL LEG NOTCHED AS NEEDED CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

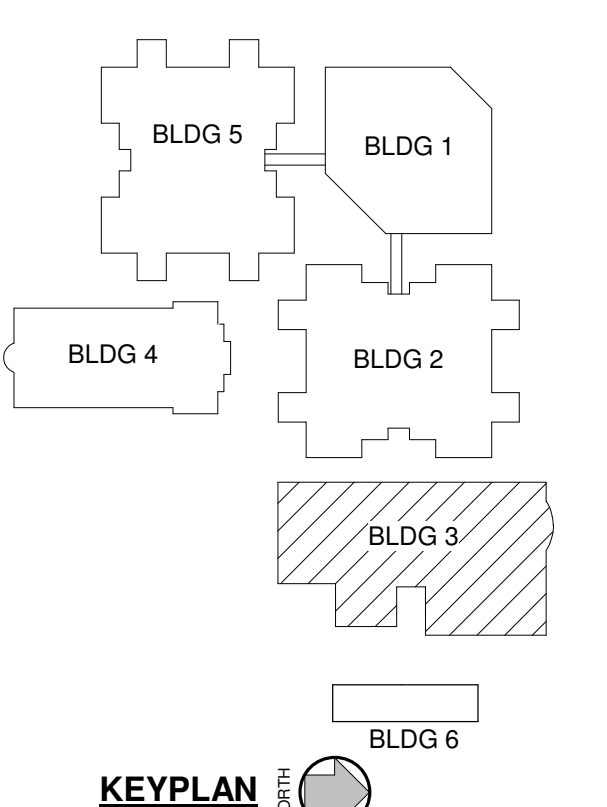
LEGEND:

TE-#	DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
TB#	DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
J#	MASONRY JAMB, REFER SCHEDULE ON S7.1
BP#	DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
MC#	DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
MSW#	MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
#-TC#	CONCRETE COLUMN REFER SCHEDULE ON S7.2
#-SC#	STEEL COLUMN REFER SCHEDULE ON S7.2
MC#	MASONRY COLUMN REFER DETAIL ON THIS SHEET
### p#	INDICATES ASD DIAPHRAGM SHEAR.

AUDETERIA HATCH LEGEND	
(MW3) 8" THK MASONRY WALL W/ #5 AT 48" OC	
(MW4) UNO 12" THK MASONRY WALL W/ #5 AT 24" OC	
(MW5) 12" THK MASONRY WALL W/ #6 AT 24" OC	
(MW6) 12" THK MASONRY WALL W/ #6 AT 32" OC	
(MW8) 12" THK MASONRY WALL W/ #6 AT 8" OC	
(MW9) 12" THK MASONRY WALL W/ #6 AT 16" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
CONCRETE WALL	
MASONRY SHEARWALL - 12" THK	
ALL EXTERIOR WALLS TO BE SOLID GROUTED	



NOTE:
THE ROOF IS NOT FULLY DESIGNED AT THIS TIME. THIS DRAWINGS WILL MODIFIED AS NEEDED AND SUBMITTED WITH THE REST OF THE TEAM'S PERMIT SUBMISSION. THE CHANGES WILL NOT BE CLOUDED.



CODE REVIEW:

CERTIFICATE:

spiezie

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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL
SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT
9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:

#	REVISION NAME	DATE
1		

FOR BID: 08/26/2026

DRAWING TITLE:

LOW ROOF FRAMING PLAN - AUDETERIA - BUILDING 3

COMMISSION NUMBER:

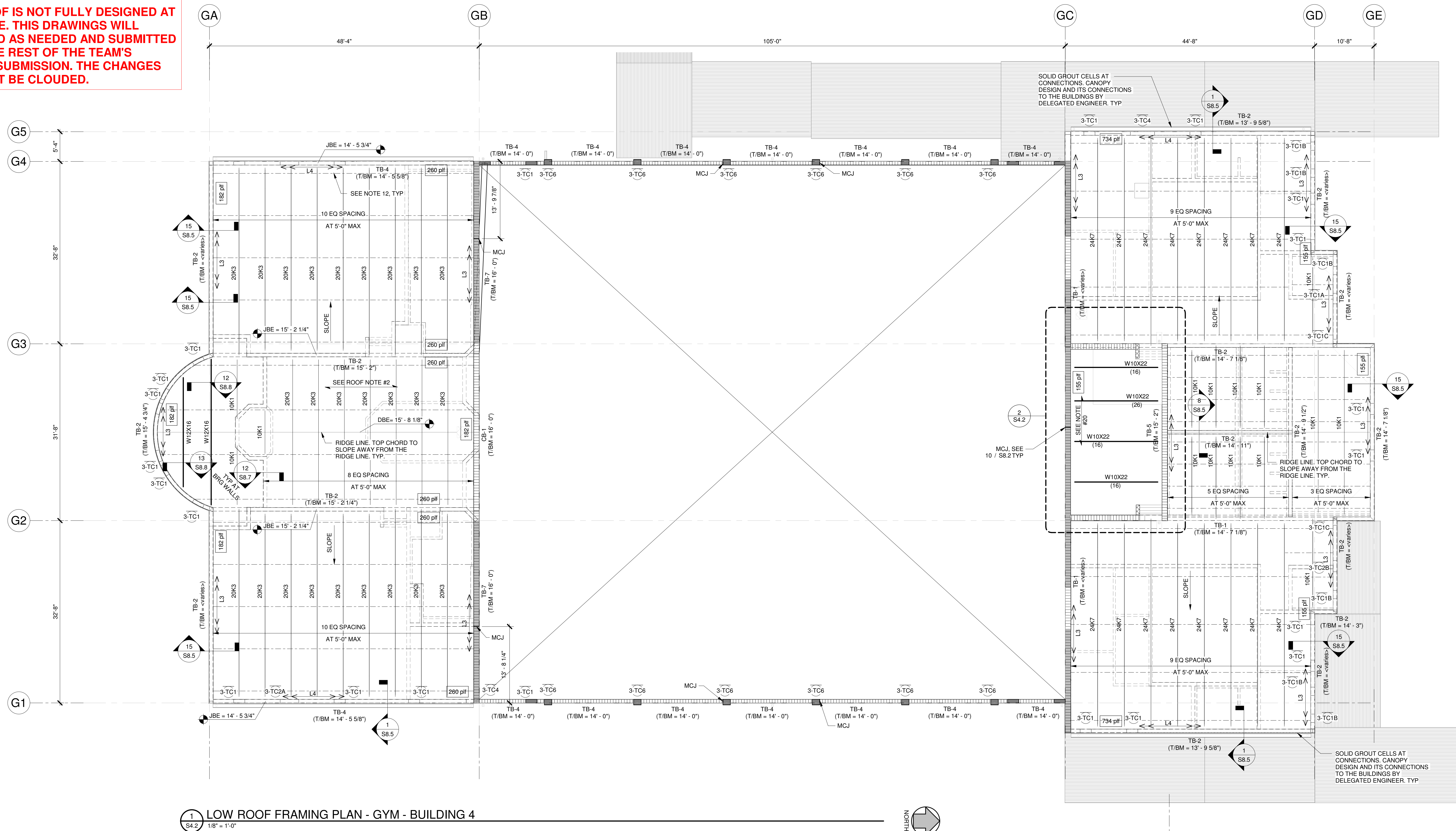
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S3.2

NOTE:
THE ROOF IS NOT FULLY DESIGNED AT
THIS TIME. THIS DRAWINGS WILL
MODIFIED AS NEEDED AND SUBMITTED
WITH THE REST OF THE TEAM'S
PERMIT SUBMISSION. THE CHANGES
WILL NOT BE CLOUDED.



1 LOW ROOF FRAMING PLAN - GYM - BUILDING 4

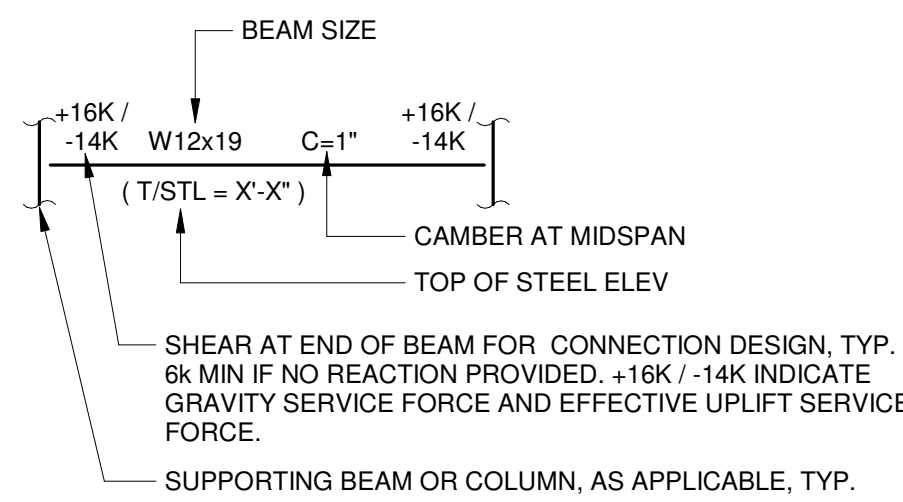
- ROOF FRAMING NOTES (GYM BLDG):
1. 1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK, FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET S8.8. ROOF DECK TO SPAN MINIMUM THREE SPANS AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION. ROOF TO BE 6" HOLLOW CORE PRECAST PLANKS, 6HC WITH MINIMUM 2" TOPPING REINFORCED W/ 6x6-W2-1XW2-1 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
 2. REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
 3. LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF/CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
 4. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 5. INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
 6. TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
 7. FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
 8. COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
 9. DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
 10. HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / S8.6
 11. UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / S8.6 (SM)

- ROOF FRAMING NOTES (GYM BLDG):
13. DENOTES MOMENT CONNECTION FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM.
 14. BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
 15. FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
 16. THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN W/ 2" MIN. CONCRETE TOPPING REINF W/ 6x6-W2-1XW2-1 WIRE MESH REINFORCEMENT (USE FLAT SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TOPPING.
 17. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 18. L3 - INDICATES L5x3x3/8 (LLV) W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC
 19. L4 - INDICATES L5x3x3/8 (LLV) CONT W/ VERTICAL LEG NOTCHED AS NEEDED W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

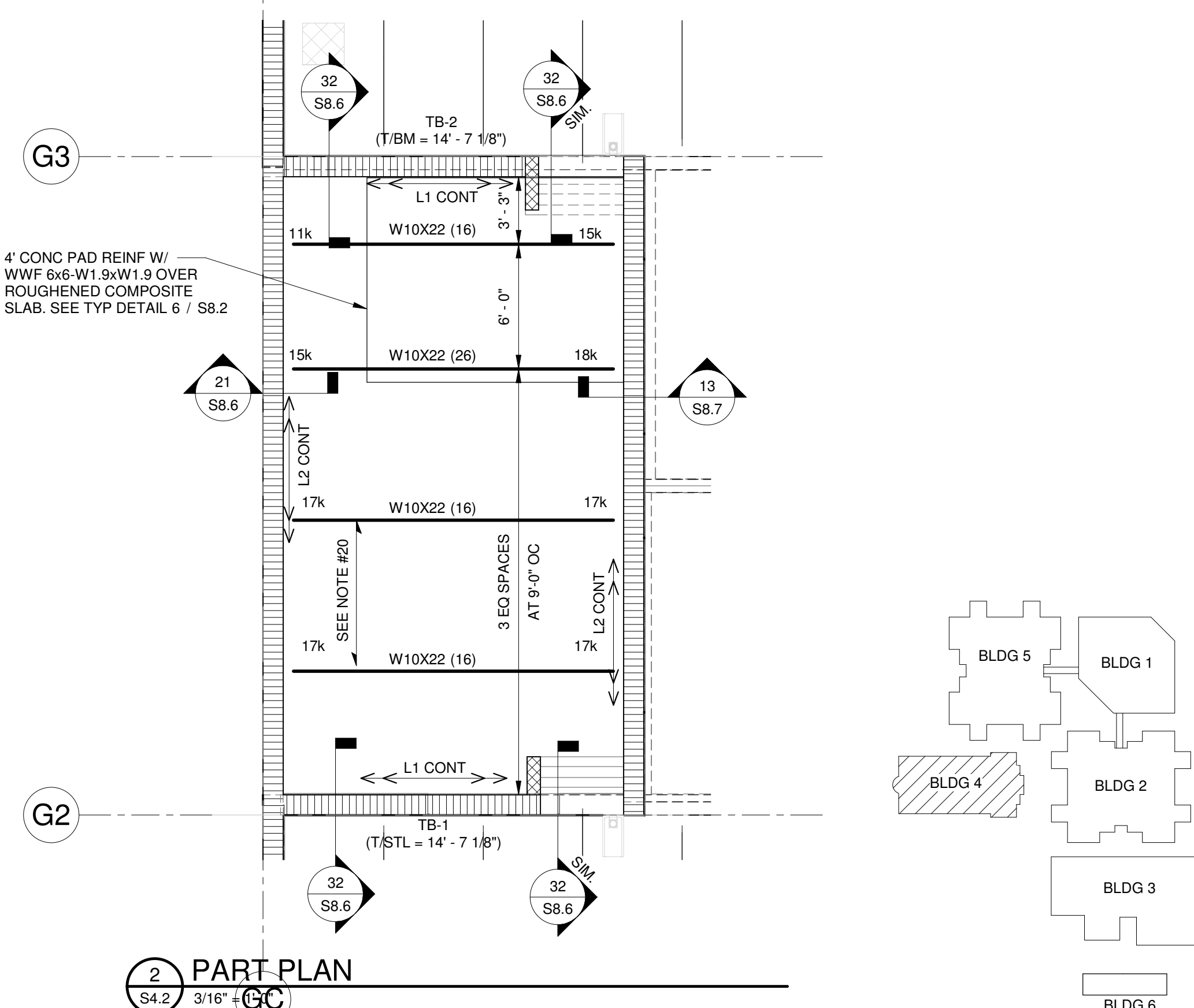
- COMPOSITE FLOOR NOTES (GYM BLDG):
19. TOP OF SLAB ELEVATION = 13' - 7". TOP OF STEEL = 13' - 0 1/2".
 20. UNO FLOOR DECK TO BE 4 1/2" NORMAL WEIGHT CONCRETE (FC = 3000 PSI) ON 2" (20 GA) COMPOSITE DECK, 2VL BY VULCRAFT (6 1/2" TOTAL THICKNESS) W/ 6x6-W2-1XW2-1 WELDED WIRE REINFORCING (WWR) IN SHEETS NOT ROLLS, CHAIRED TO THE TOP OF SLAB. SHORE DECK IF LESS THAN (3) CONTINUOUS SPANS AND IN ACCORDANCE W/ MAX SDI UNSHORED CLEAR SPAN PUBLISHED BY MFR UNTIL CONCRETE HAS REACHED 75% COMPRESSIVE STRENGTH. FLOOR DECK TO SPAN MINIMUM THREE SPAN FOR UNSHORED CONDITION. SEE PLAN FOR EXTENTS
 21. FLOOR LOADS: DEAD LOAD = SEE LOADING PLANS LIVE LOAD = SEE LOADING PLANS
 22. ALL COMPOSITE FLOOR BEAMS SHALL HAVE A MINIMUM OF 3/4" X 5 1/2" HEADED STUDS AT 12" MAXIMUM (ONE STUD PER BEAM MIN UNO) SEE DETAIL.
 23. CONTRACTOR SHALL VERIFY ALL SLAB OPENING DIMENSIONS AND LOCATION WITH ARCH AND MECH CONTRACTOR PRIOR TO FABRICATION OF STEEL.
 24. BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
 25. FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
 26. FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.
 27. L1 - INDICATES L6x4x1/2 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC
 - L2 - INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

- LEGEND:
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
- TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
- J# MASONRY JAMB, REFER SCHEDULE ON S7.1
- BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
- MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
- MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
- #TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
- #SC# STEEL COLUMN REFER SCHEDULE ON S7.2
- #MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
- ### pff INDICATES ASD DIAPHRAGM SHEAR.

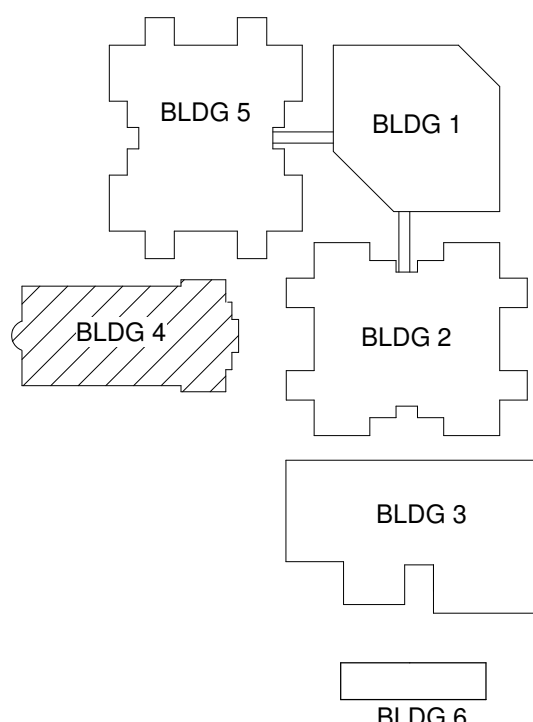
GYM HATCH LEGEND	
(MW1) 8" THK MASONRY WALL W/ #5 AT 24" OC	
(MW3) UNO 8" THK MASONRY WALL W/ #5 AT 48" OC	
(MW4) 12" THK MASONRY WALL W/ #5 AT 24" OC	
MASONRY SHEARWALL - 8" THK	
MASONRY SHEARWALL - 12" THK	
CONC COLUMN, REFER SCHEDULE S7.2	



NON-COMPOSITE BEAM LEGEND



2 PART PLAN



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CERTIFICATE:



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COMPLETED STRUCTURE DEPICTED ON THESE PLANS
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BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:

#	REVISION NAME	DATE
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FOR BID: 08/26/2026

DRAWING TITLE:

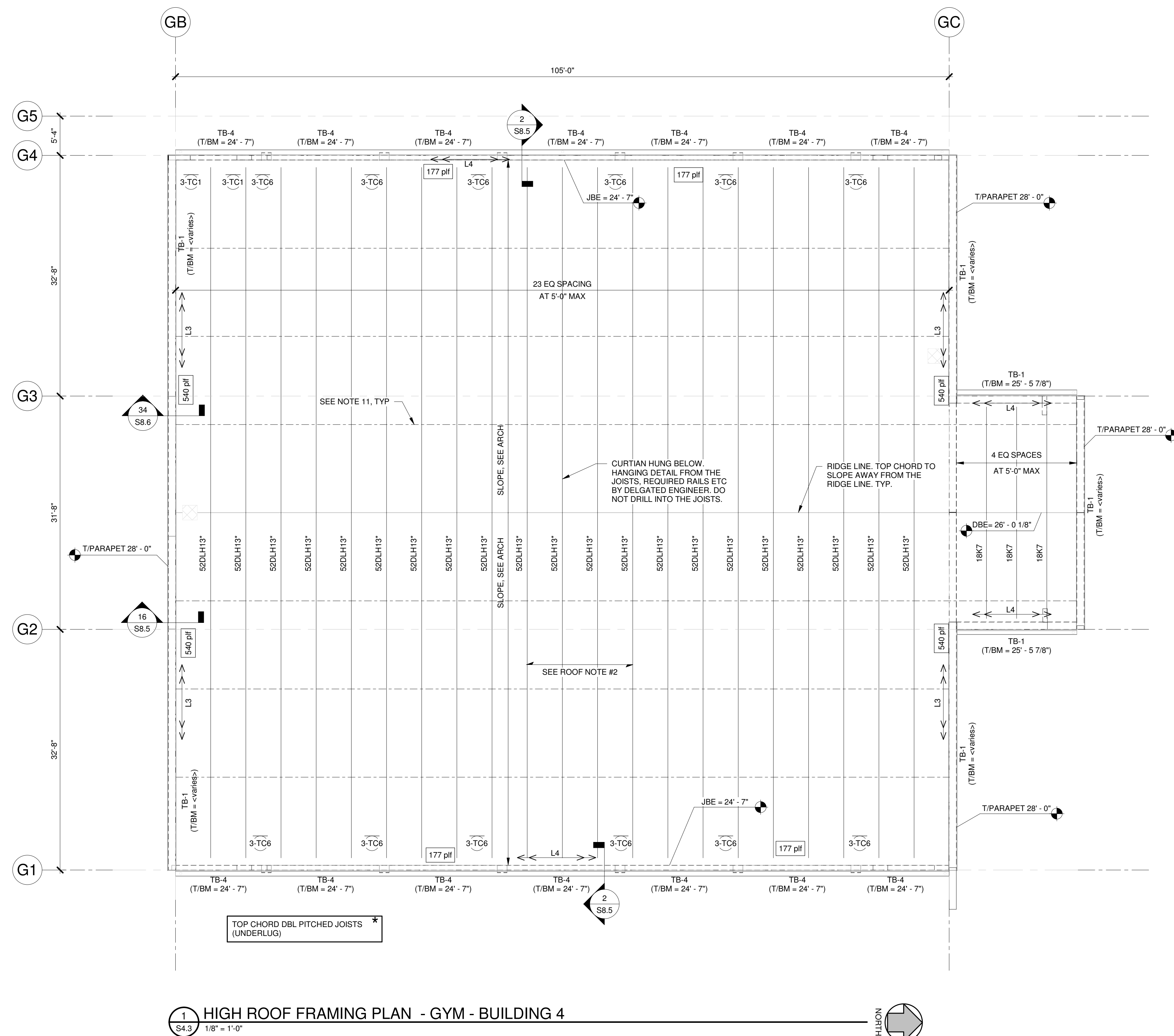
LOW ROOF FRAMING
PLAN - GYM - BUILDING 4

COMMISSION NUMBER:
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S4.2



1. ROOF FRAMING NOTES (GVM BLDG):
2. TOP OF STEEL ELEVATION +5.00 SEE PLAN.
3. 1/2" - (12") GAGE #90 GALV TYPE B ROOF DECK, FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET 8.8. ROOF DECK TO SPAN MINIMUM 2" ABOVE THE SPACING OF JOISTS.
4. AT ADMIN BLDGS TO CLASSROOM BUILDING CONNECTION, ROOF TO BE 6" HOLLOW CORE PRECAST PLANS, FLOE WITH MINIMUM 2" TOP REINFORCED W/ 6#x12W 1XW12 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
5. REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
6. LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOFCEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
7. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
8.  INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
9. TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
10. FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
11. COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND ME/PPF DRAWINGS
12. DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
13. HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / 58.6 (S/M)
14. UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / 58.6 (S/M)

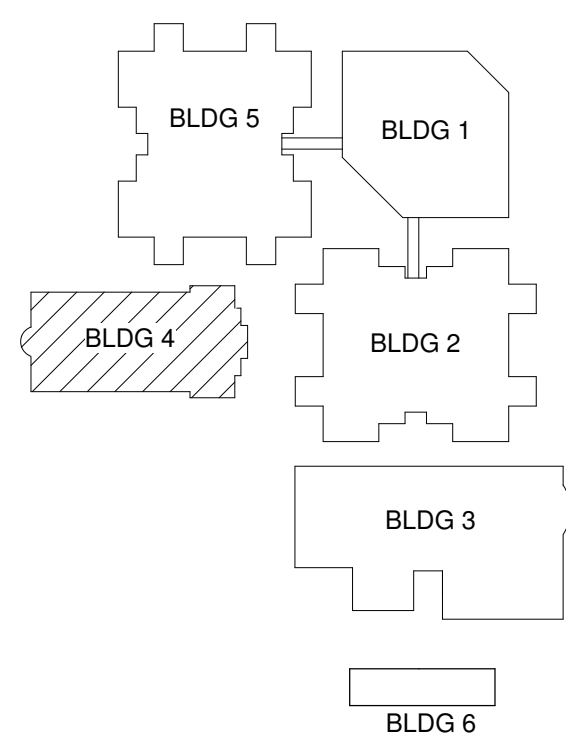
ROOF FRAMING NOTES (GYM BLDG):

13. **◆ DENOTES MOMENT CONNECTION. DESIGN MOMENT CONNECTION FOR FULL WIND AND SHEAR CAPACITY OF BEAM.**
14. **BEAM END REACTIONS (INDICATED ON PLAN ARE ASD SERVICE LOADS).**
15. **FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.**
16. **THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN WITH 2" MIN. CONCRETE TOPPING REIN W/ 6X6 W/2.1XW2.1 WIRE MESH REINFORCEMENT (USE PL. SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TYPING.**
17. **REFER 9 / S-83 FOR TYP. LITEL. SCHEDULE**
18. **13- INDICATES 1/5X3X3/8 (LLV) W/ 5/8" DIA 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SYMPSON STRONGTIE @12" OC NOTED AS SHOWN ON PLAN.**
19. **14- INDICATES 1/5X3X3/8 (LLV) CONT W/ VERTICAL LEGS NOTCHED AS NEEDED W/ 5/8" DIA 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SYMPSON STRONGTIE @12" OC IN FULLY GROUTED CONC / CONC.**

LEGEND:	
TE#	DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
TB#	DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON J.7; SHEET
J#	MASONRY JAMB, REFER SCHEDULE ON S7.1
BP#	DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
MC#	DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
MSW#	MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
#TC#	CONCRETE COLUMN REFER SCHEDULE ON S7.2
#SC#	STEEL COLUMN REFER SCHEDULE ON S7.2
MC#	MASONRY COLUMN REFER DETAIL ON THIS SHEET
### pfl	INDICATES ASD DIAPHRAGM SHEAR.

GYM HATCH LEGEND	
	(MW1) 8" THK MASONRY WALL W/ #5 AT 24" OC
	(MW3) UNO 8" THK MASONRY WALL W/ #5 AT 48" OC
	(MW4) 12" THK MASONRY WALL W/ #5 AT 24" OC
	MASONRY SHEARWALL - 8" THK
	MASONRY SHEARWALL - 12" THK
	CONC COLUMN, REFER SCHEDULE S7.2

NON-COMPOSITE BEAM LEGEND



CODE REVIEW:

CERTIFICATE:



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Certificate of Authorization No. 25826

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING COD

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

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34950

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ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/2026

REVISIONS:

	REVISION NAME	DATE
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FOR BID:

08/26/2026

DRAWING TITLE:

HIGH ROOF FRAMING
PLAN - GYM - BUILDING 4

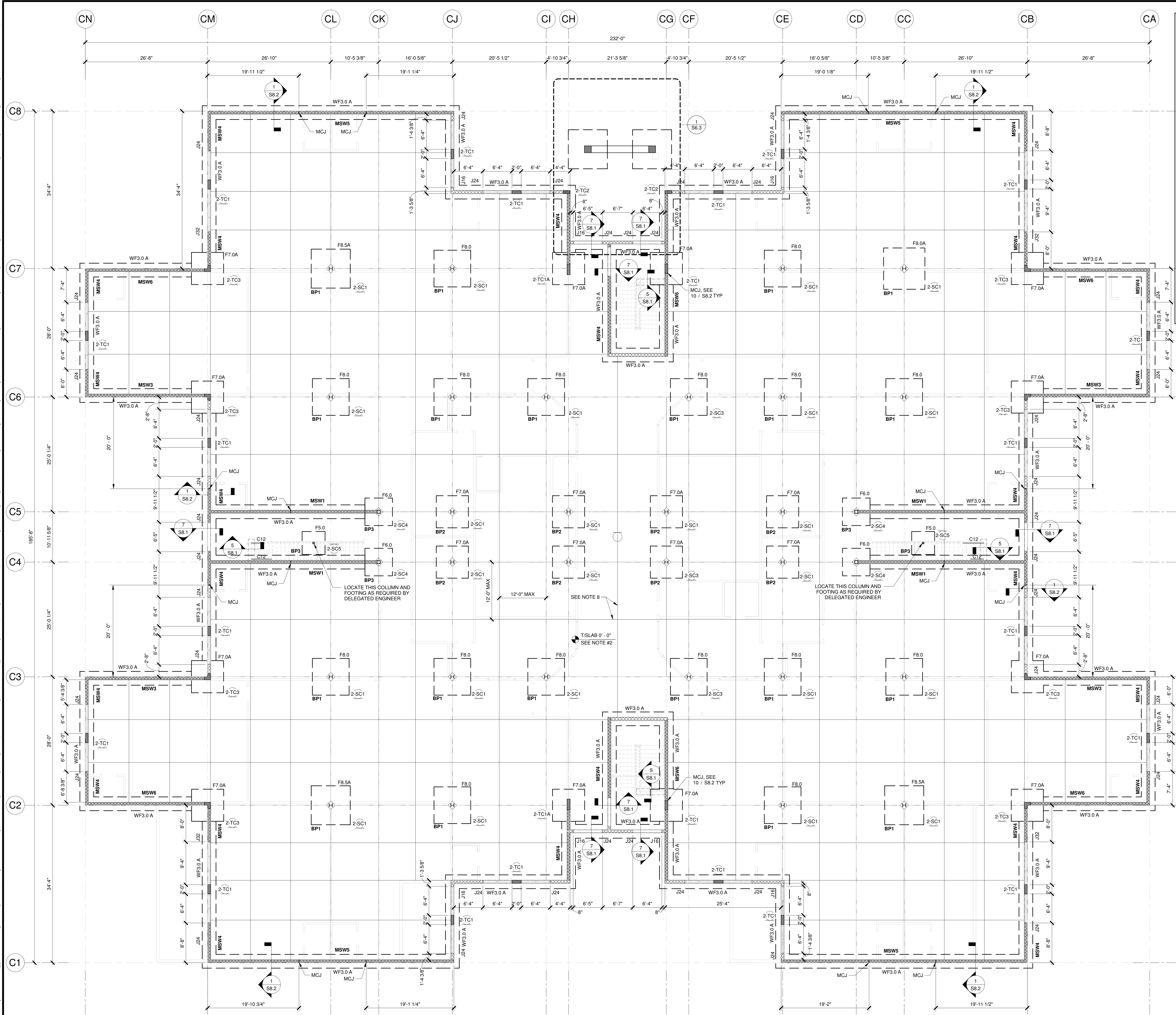
COMMISSION NUMBER:
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S4.3





- FOUNDATION & GROUND FLOOR PLAN NOTES (CLASSROOM BLDG 2 & 5):**
1. FIRST FLOOR SLAB - REFERENCE ELEVATION 0'-0" U.N.O.
 2. PROVIDE 5" THICK CONCRETE SLAB ON GRADE REINF W/ #6 W14xW14 WWR IN SHEETS (NOT ROLLS) CHAIRED TO TOP OF SLAB. SEE DETAIL 6 / S8.1. PLACE CONCRETE ON VAPOR BARRIER PER ARCHL REQUIREMENTS BUT NOT LESS THAN 15 MILS. PREPARE SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 3. SEE MEP DRAWINGS FOR SLAB-ON-GRADE PENETRATIONS.
 4. TOP OF ALL FOOTINGS SHALL BE -1'-4" U.N.O.
 5. CONTINUOUS WALL FOOTINGS SHALL EXTEND FULL LENGTH OF THE FOOTING WIDTH BEYOND END WALLS. U.N.O.
 6. STEP TOP OF CONTINUOUS WALL FOOTINGS AS NECESSARY FOR PIPES OR CONDUIT. SEE 19 / S8.1
 7. FOR TYPICAL CMU WALL DETAILS SEE SCHEDULE ON THIS SHEET FOR DETAILS
 8. PROVIDE CONTROL JOINTS PER SECTIONS 2 / S8.1 AND STRUCTURAL NOTES. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CJ AT CONTRACTOR'S DISCRETION. REFER AND SEE 3 / S8.1.
 9. FOR DETAILS OF FOOTINGS AT CORNERS AND INTERSECTIONS SEE 17 / S8.1.
 10. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 11. CENTERLINES OF COLUMNS AND BEAMS SHALL COINCIDE WITH THE FOUNDATION CENTERLINES. UNO.
 12. CONCRETE SLAB-ON-GRADE SHALL BE FORMED ON COMPACTED SOILS. REFER TO GEOTECH REPORT FOR SUBGRADE PREPARATION.
 13. FOR CONCRETE STRENGTHS REFER TO STRUCTURAL NOTES.
 14. RE-ENTRANT CORNER BARS (TYP). SEE DETAIL 13 / S8.1
 15. SEE SHEET S7.1 FOR STRUCTURAL SCHEDULES
 16. SEE FOOTING SCHEDULE FOR ISOLATED FOOTINGS AND WALL FOOTING SIZE & REINFORCEMENT ON S7.1 SHEET.
 17. SEE ARCH DRAWINGS FOR SLOPE AND FLOOR DRAINS IN SOG
 18. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 19. SEE STRUTURAL NOTES AND GEOTECH REPORT FOR BEARING PRESSURE AND VIBRO REPLACEMENT STONE COLUMN FOUNDATION.

- LEGEND:**
- TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1
- TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
- J# MASONRY JAMB, REFER SCHEDULE ON S7.1
- BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET
- MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
- MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
- #TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
- SC# STEEL COLUMN REFER SCHEDULE ON S7.2
- MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET
- ### pft INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND	
(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	

BASE PLATES ARE ADDED

CODE REVIEW:

CERTIFICATE:

spiezie

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TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL
SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT
9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:

#	REVISION NAME	DATE
1		

FOR BID: 08/26/2026

DRAWING TITLE:

FOUNDATION/FIRST FLOOR FRAMING PLAN- CLASSROOMS 2 - BUILDING 5

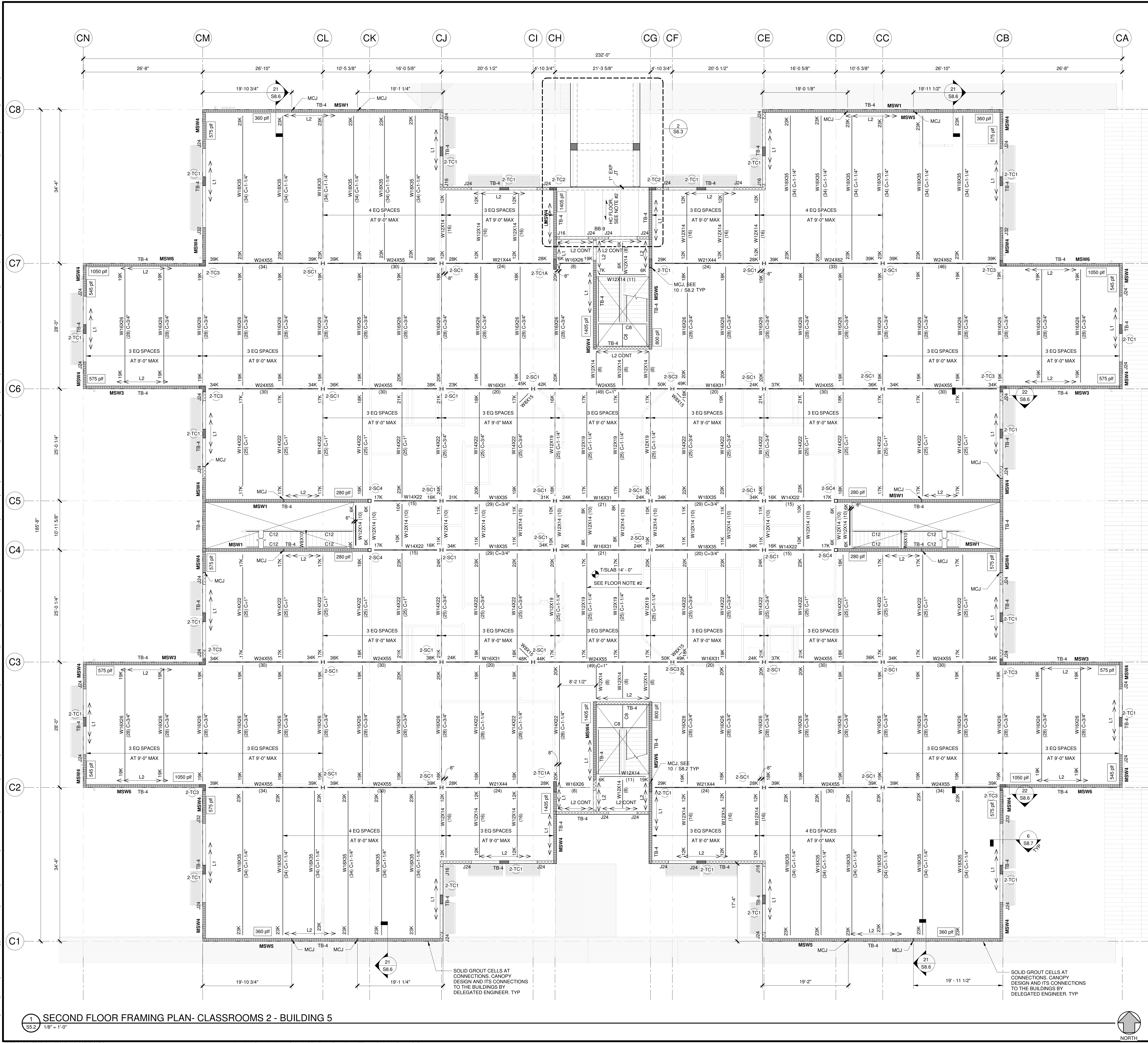
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DRAWING NUMBER:

S5.1



COMPOSITE FLOOR NOTES (CLASSROOM 2 & 5):

1. TOP OF SLAB ELEVATION = +14'-0".
TOP OF STEEL = 13'-5 1/2".
2. UNO FLOOR DECK TO BE 4 1/2" NORMAL WEIGHT CONCRETE (FC = 3000 PSI) ON 2" (20 GA) COMPOSITE DECK, 2x11 BY VULCRAFT (6 1/2" TOTAL THICKNESS) W/ 6x6-W2-1xW2-1 WELDED WIRE REINFORCING (WWRI) IN SHEETS NOT ROLLS, CHAIRED TO THE TOP OF SLAB. SHORE DECK IF LESS THAN (3) CONTINUOUS SPANS AND IN ACCORDANCE W/ MAX SDI UNSHORED CLEAR SPAN PUBLISHED BY MFR UNTIL CONCRETE HAS REACHED 75% COMPRESSIVE STRENGTH. FLOOR DECK TO SPAN MINIMUM THREE SPAN FOR UNSHORED CONDITION. SEE PLAN FOR EXTENTS AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION. FLOOR TO BE 9" HOLLOW CORE PRECAST PLANKS, 8HC WITH MINIMUM 2" TOPPING REINFORCED W/ 6x6-W2-1xW2-1 FOR SLOPE AND MAX THICKNESS OF TOPPING SEE ARCH.
3. FLOOR LOADS:
DEAD LOAD = SEE LOADING PLANS
LIVE LOAD = SEE LOADING PLANS
4. ALL COMPOSITE FLOOR BEAMS SHALL HAVE A MINIMUM OF 3/4"x5 1/2" HEADED STUDS AT 12" MAXIMUM (ONE STUD PER BEAM MIN UNO) SEE DETAIL.
5. CONTRACTOR SHALL VERIFY ALL SLAB OPENING DIMENSIONS AND LOCATION WITH ARCH AND MECH CONTRACTOR PRIOR TO FABRICATION OF STEEL.
6. BEAM END RECTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
7. FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF OK.
8. FOR DIMENSIONS NOT SHOWN SEE ARCHITECTURAL DRAWINGS.
9. REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
10. L1 - INDICATES L6x4x1/2 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC
L2 - INDICATES L5x3x3/8 (LLV) CONT W/ 5/8" DIA x 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

LEGEND:

TE-# DENOTES THICKENED SLAB EDGE, SEE 33 / S8.1

TB# DENOTES CONCRETE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET

J# MASONRY JAMB, REFER SCHEDULE ON S7.1

BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON 2 / S7.1 SHEET

MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET

MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1

#TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2

#SC# STEEL COLUMN REFER SCHEDULE ON S7.2

#MC# MASONRY COLUMN REFER DETAIL ON THIS SHEET

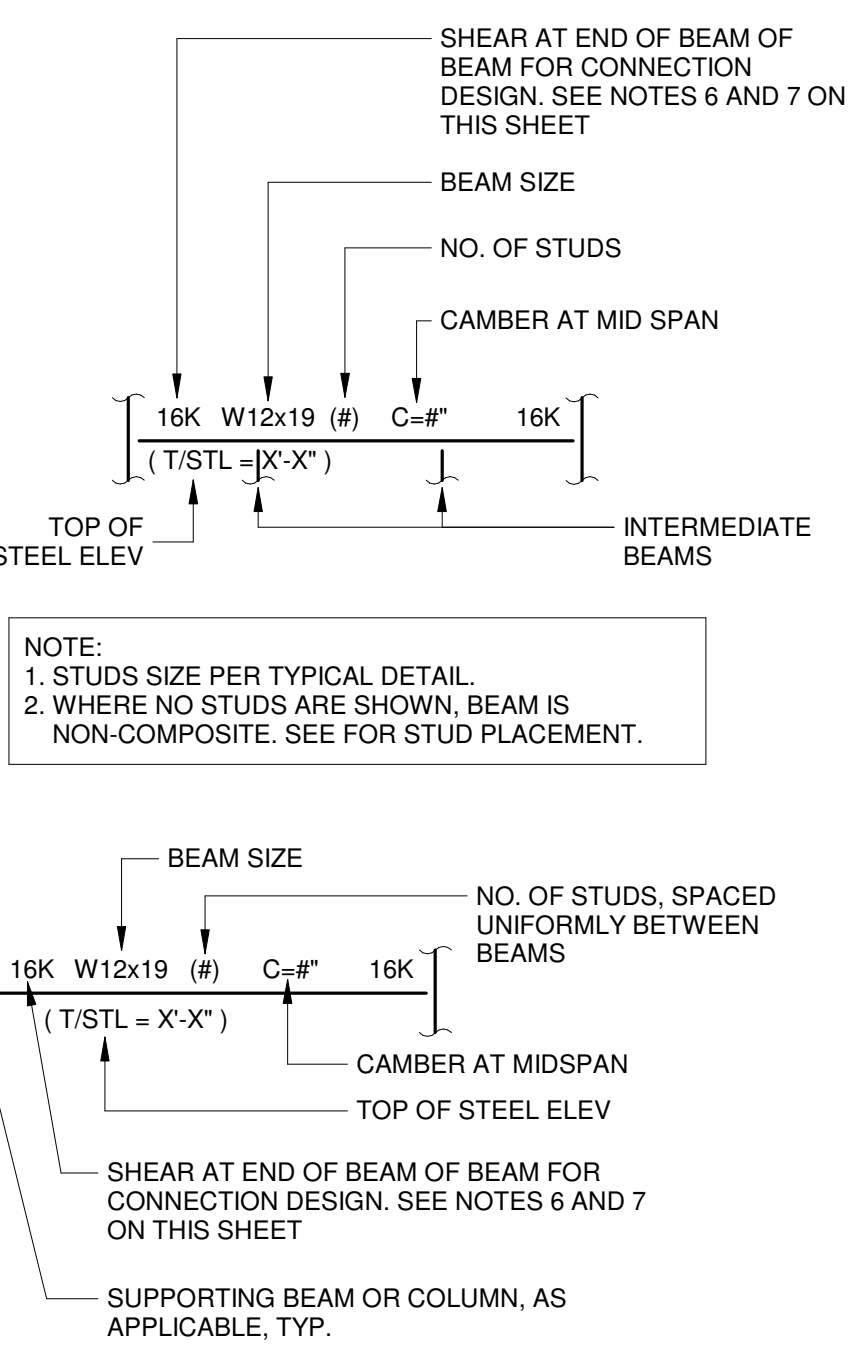
p# INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND

(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC

CONC COLUMN, REFER SCHEDULE S7.2

MASONRY SHEARWALL



COMPOSITE BEAM LEGEND

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FOR

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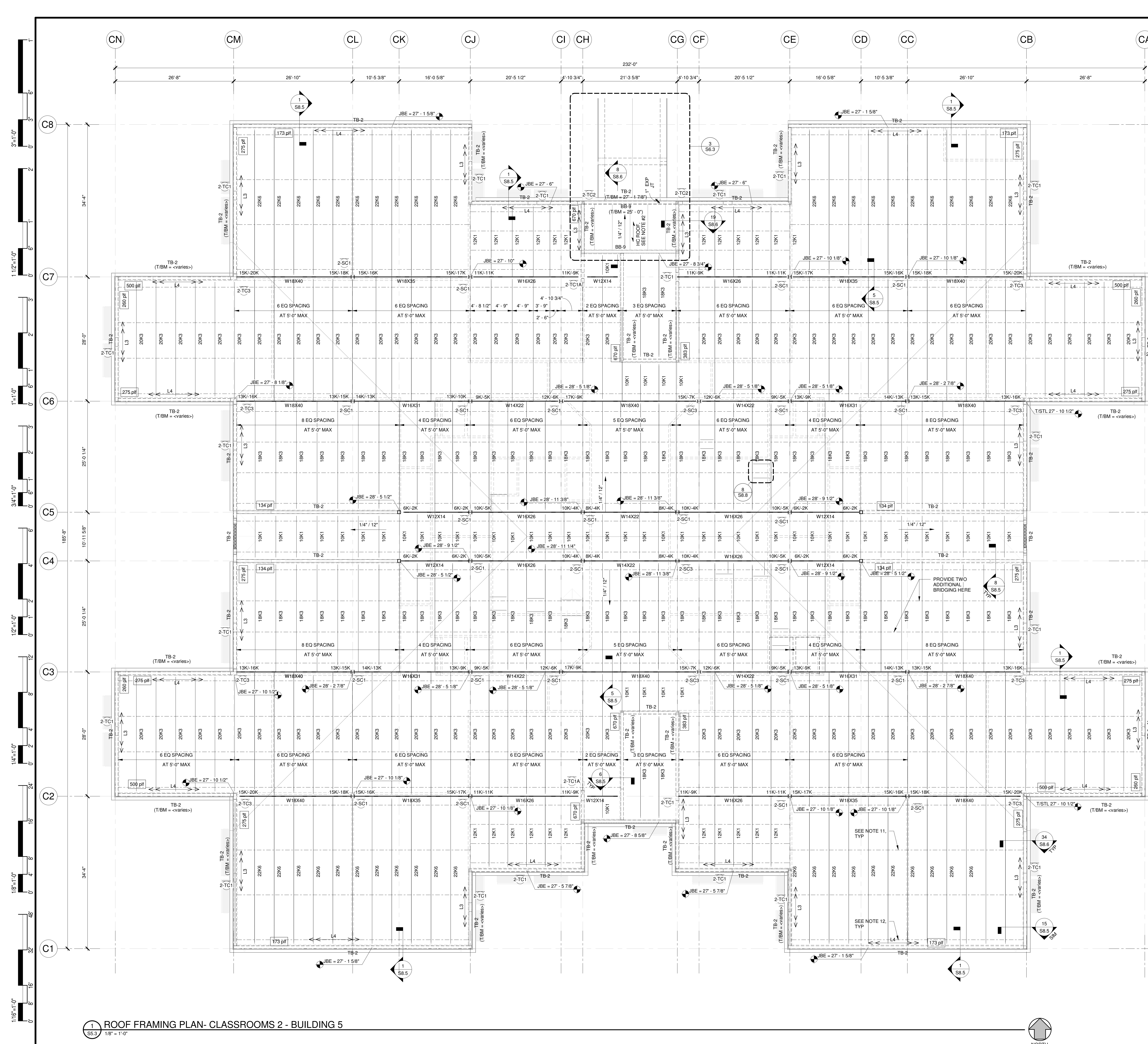
DRAWING TITLE:

SECOND FLOOR FRAMING PLAN- CLASSROOMS 2 - BUILDING 5

COMMISSION NUMBER: 26K014

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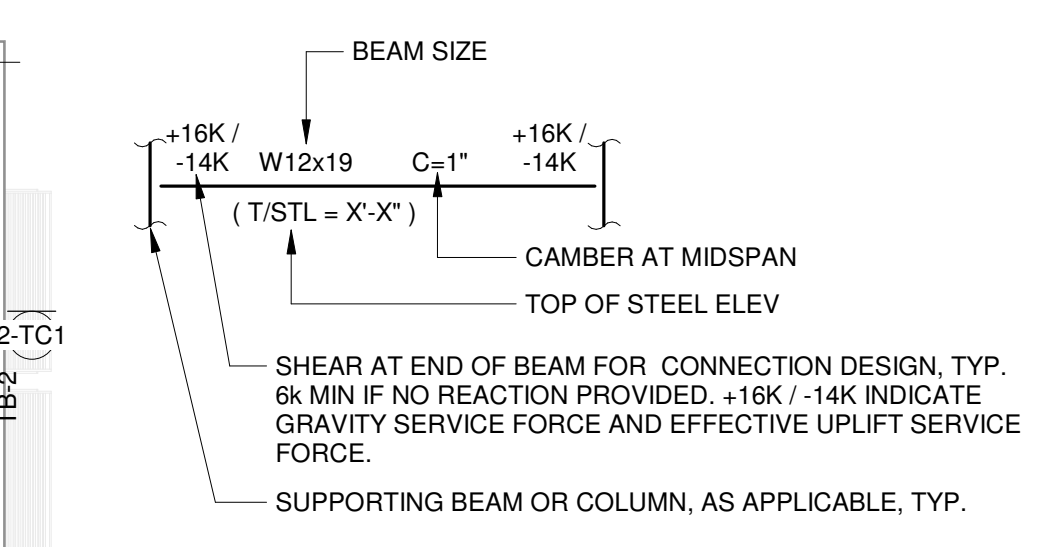
DRAWING NUMBER: S5.2



- ROOF FRAMING NOTES / CLASSROOM 2 & 4:
- 1-1/2" (20 GAGE) G90 GALV TYPE B ROOF DECK. FASTEN ROOF DECK TO SUPPORTS PER ROOF DECK ATTACHMENT SCHEDULE ON TYPICAL ROOF DETAILS SHEET S8.8. ROOF DECK TO SPAN MINIMUM THREE SPANS.
 - AT ADMIN BLDG TO CLASSROOM BUILDING CONNECTION, ROOF TO BE 6" HOLLOW CORE PRECAST PLANKS, 6HC WITH 2" TOPPING REINFORCED W/ 6#XW2 1XW2 1' SLOPE OF HOLLOW CORE AND TOPPING TO MATCH THE METAL ROOF DECK.
 - REFER TO STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DEFINITION OF SYMBOLS, ABBREVIATIONS, AND OTHER INFORMATION AND CRITERIA NOT SHOWN ON PLAN.
 - LOADING CRITERIA IS DEFINED ON DRAWINGS. NOTIFY ENGINEER OF SPECIAL ROOF/CEILING LOADING CONDITIONS NOT OTHERWISE IDENTIFIED ON THE CONTRACT DOCUMENTS.
 - PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 - INDICATES SPAN DIRECTION OF STRUCTURAL DECK. SEE NOTES ON THIS SHEET FOR DECK SPECIFICATIONS.
 - TOP OF ROOF AND CEILING SLOPE ELEVATIONS AND LOCATIONS VARY AND SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
 - FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN BAYS UNLESS NOTED OTHERWISE OR DIMENSIONED ON PLAN.
 - COORDINATE FINAL SIZE AND LOCATION OF ROOF OPENINGS, PENETRATIONS, AND CHASES WITH ARCHITECTURAL AND MEP/FP DRAWINGS.
 - DIMENSIONS TO ROOF TOP EQUIPMENT ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND UPON FINAL SELECTION OF EQUIPMENT AND CURBING.
 - HORIZONTAL BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / S8.6
 - UPLIFT BRIDGING PER JOIST MFR MIN AS SHOWN ON PLAN, TYP. REFER 34 / S8.6 (SIM)
 - ◆ DENOTES MOMENT CONNECTION. DESIGN MOMENT CONNECTION FOR FULL MOMENT AND SHEAR CAPACITY OF BEAM.
 - BEAM END REACTIONS INDICATED ON PLAN ARE ASD SERVICE LOADS.
 - FOR BEAM REACTIONS NOT INDICATED IN PLAN DESIGN THE CONNECTION FOR A MINIMUM REACTION OF 6K.
 - THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN W/ 2" MIN. CONCRETE TOPPING REINFORCED W/ 6#XW2 1XW2 1' WIRE MESH REINFORCEMENT (USE FLAT SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TOPPING.
 - REFER 9 / S8.3 FOR TYP. LINTEL SCHEDULE
 - L3 - INDICATES L5X3X3/8 (LLV) CONT W/ 5/8" DIA X 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC
 - L4 - INDICATES L5X3X3/8 (LLV) CONT W/ VERTICAL LEG NOTCHED AS NEEDED W/ 5/8" DIA X 4" EMBEDMENT LENGTH TITEN HD ANCHORS BY SIMPSON STRONGTIE @12" OC IN FULLY GROUTED CMU / CONC

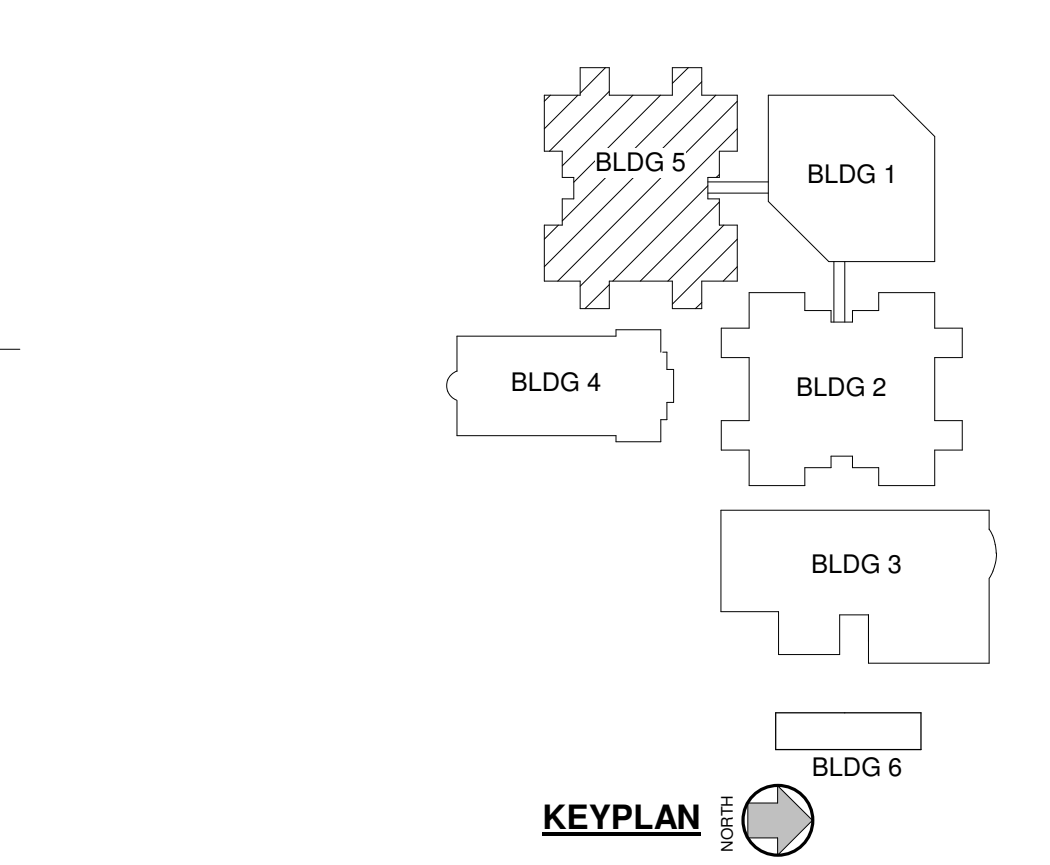
- LEGEND:
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- TB# DENOTES CONCRETE TIE BEAM TYPE, SEE SCHEDULE ON S7.1 SHEET
- J# MASONRY JAMB, REFER SCHEDULE ON S7.1
- BP# DENOTES BASE PLATE TYPE, SEE SCHEDULE ON S7.1 SHEET
- MC# DENOTES MASONRY COLUMN, SEE DETAIL ON THIS SHEET
- MSW# MASONRY SHEARWALL, REFER SCHEDULE ON S7.1
- #TC# CONCRETE COLUMN REFER SCHEDULE ON S7.2
- SC# STEEL COLUMN REFER SCHEDULE ON S7.2
- M# MASONRY COLUMN REFER DETAIL ON THIS SHEET
- ### pfl INDICATES ASD DIAPHRAGM SHEAR.

CLASSROOM HATCH LEGEND	
(MW1) UNO 8" THK MASONRY WALL W/ #5 AT 24" OC	
CONC COLUMN, REFER SCHEDULE S7.2	
MASONRY SHEARWALL	



NON-COMPOSITE BEAM LEGEND

NOTE:
THE ROOF IS NOT FULLY DESIGNED AT THIS TIME. THIS DRAWINGS WILL MODIFIED AS NEEDED AND SUBMITTED WITH THE REST OF THE TEAM'S PERMIT SUBMISSION. THE CHANGES WILL NOT BE CLOUDED.



CERTIFICATE:

spiezie

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BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT

9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:

REVISION NAME	DATE
1	

FOR BID: 08/26/2026

DRAWING TITLE:

ROOF FRAMING PLAN- CLASSROOMS 2 - BUILDING 5

COMMISSION NUMBER:

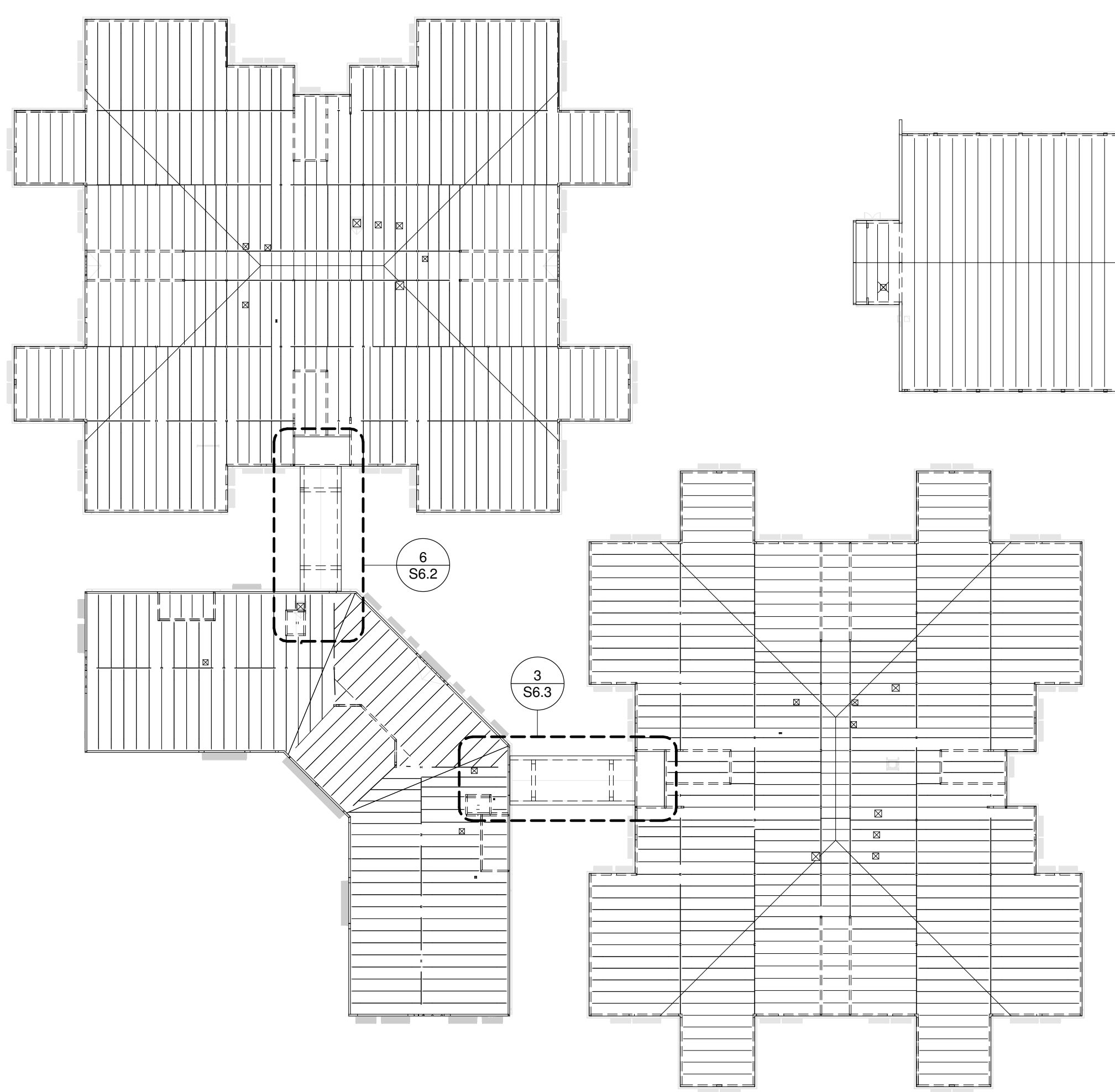
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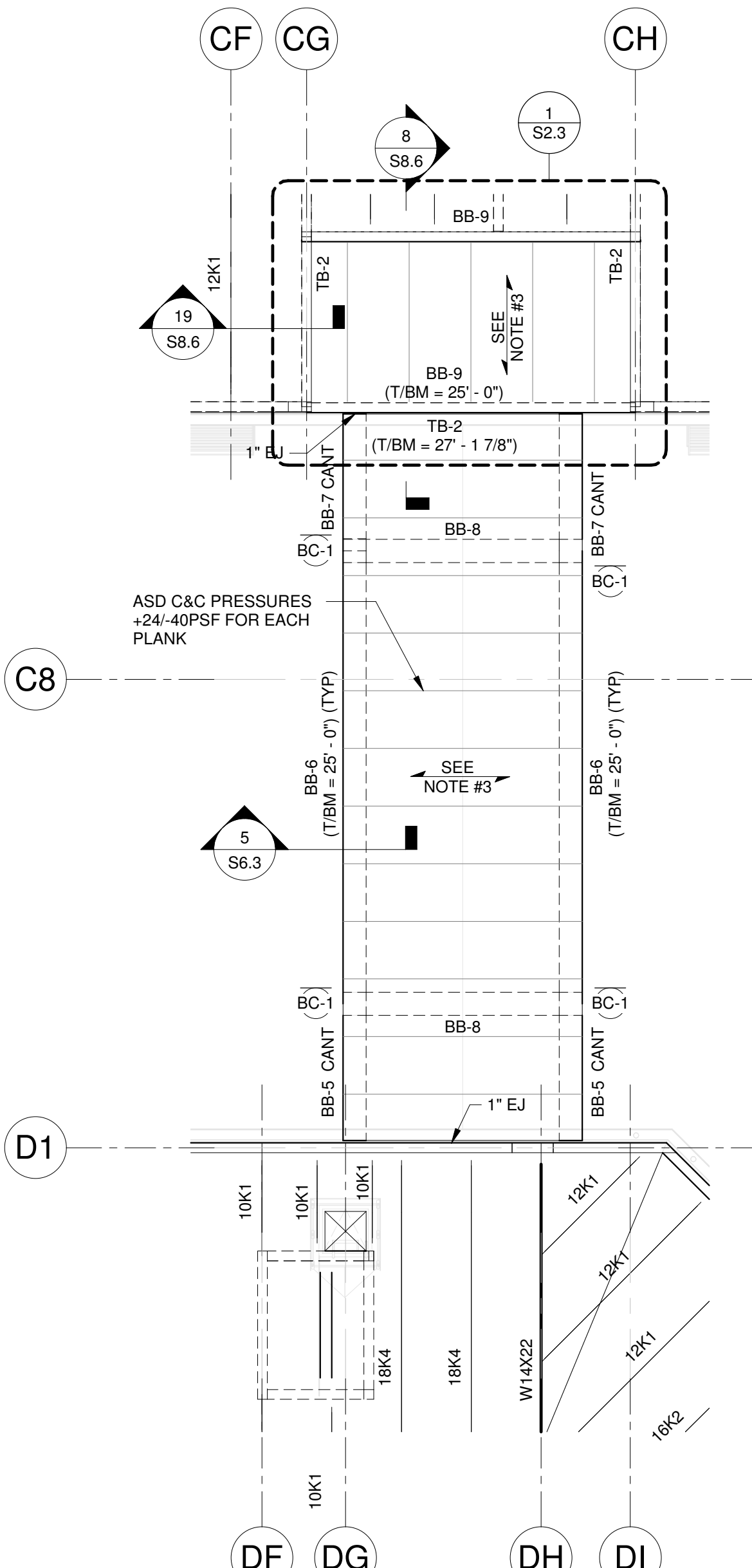
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S5.3

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



3 OVERALL BRIDGE ROOF PLAN

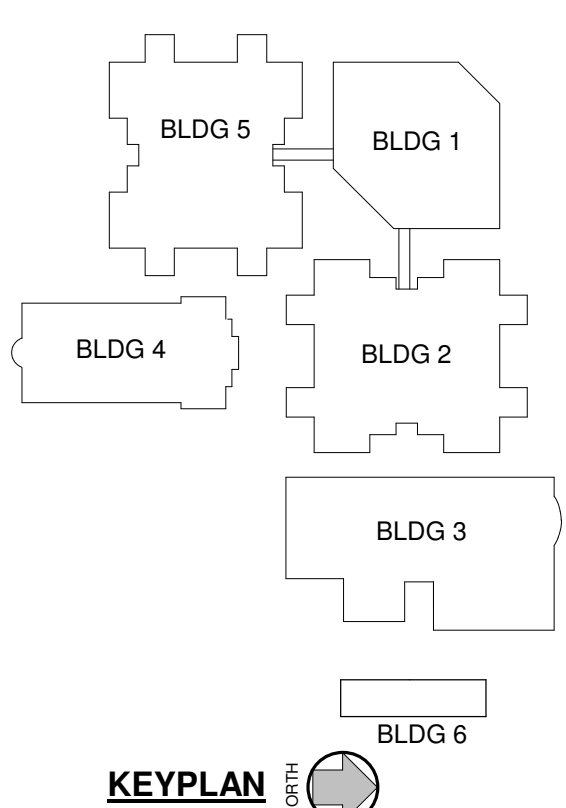
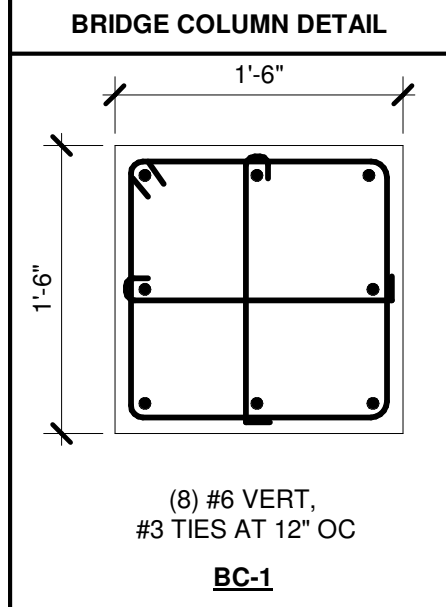


6 BRIDGE 1- ROOF FRAMING PLAN

BRIDGE BEAM SCHEDULE									
MARK	SIZE WxH (IN)	BOTTOM REINFORCING	TOP REINFORCING	'M' (# of Bars) E/F REINFORCING	'C' REINFORCING	'E' REINFORCING	STIRRUP S1	STIRRUP S2	COMMENTS
BB-1 CANT	18 x 24	(4) #5	(4) #5	-	(4) #5	-	2L - #4 AT 12" OC	2L - #4 AT 12" OC	
BB-2	18 x 24	(4) #5	(4) #5	(4) #5	(4) #5	-	2L - #4 AT 18" OC	2L - #4 AT 18" OC	
BB-3 CANT	18 x 24	(4) #5	(4) #5	-	(4) #5	-	2L - #4 AT 12" OC	2L - #4 AT 12" OC	
BB-4	18 x 18	(4) #5	(4) #6	-	(4) #5	-	2L - #4 AT 18" OC	2L - #4 AT 18" OC	
BB-5 CANT	18 x 24	(4) #5	(4) #5	-	(4) #5	-	2L - #4 AT 12" OC	2L - #4 AT 12" OC	
BB-6	18 x 24	(4) #5	(4) #5	(4) #5	(4) #5	-	2L - #4 AT 18" OC	2L - #4 AT 18" OC	
BB-7 CANT	18 x 24	(4) #5	(4) #5	-	(4) #5	-	2L - #4 AT 18" OC	2L - #4 AT 18" OC	
BB-8	18 x 18	(4) #6	(4) #6	-	-	-	2L - #4 AT 12" OC	2L - #4 AT 12" OC	
BB-9	7.58 x 24	(2) #7	(2) #7	-	-	-	2L - #4 AT 12" OC	2L - #4 AT 12" OC	
GB-1	18 x 18	(4) #6	(4) #5	-	-	-	2L - #4 AT 18" OC	2L - #4 AT 18" OC	

BRIDGE ROOF PLAN NOTES:

3. THE DECK SHALL BE PRECAST 6" HOLLOW CORE SPANNING AS SHOWN ON THE PLAN W/ 2" MIN. CONCRETE TOPPING REINF W/ 6X6-W2.1XW2.1 WIRE MESH REINFORCEMENT (USE FLAT SHEETS NOT IN ROLLS) AT TOP OF THE TOPPING. SEE ARCH FOR SLOPES IN THE TOPPING.
4. SEE ARCH FOR ELEVATION, W.P. AND FINISHES.



S6.2

1"=1'-0"
1 1/2"=1'-0"
1"=1'-0"
3/4"=1'-0"
1/2"=1'-0"
1/4"=1'-0"
1/8"=1'-0"
1/16"=1'-0"

1 WALKWAY CANOPY OVERALL PLAN
S6.4 3/64" = 1'-0"

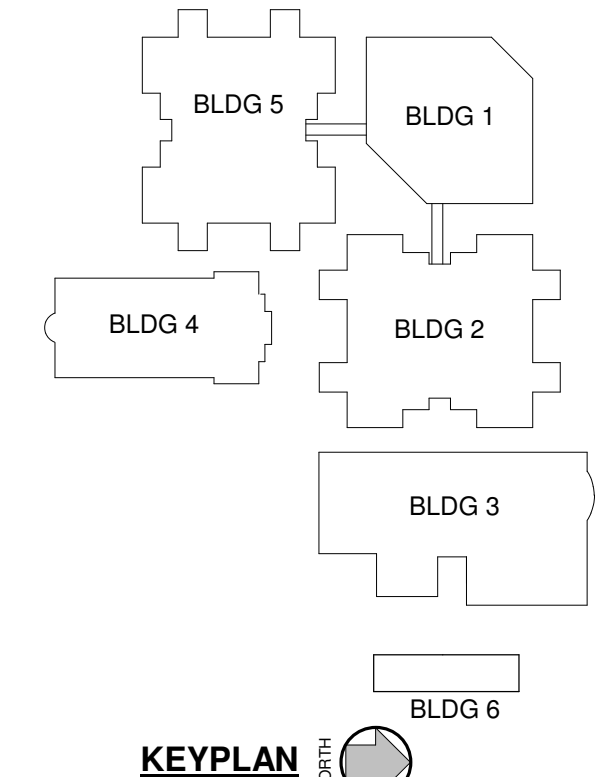


SOLID GROUT CELLS AT CONNECTIONS. CANOPY
DESIGN AND ITS CONNECTIONS TO THE BUILDINGS
BY DELEGATED ENGINEER. TYP

WALKWAY STRUCTURE AND
FOUNDATION TO BE DESIGNED BY
SUPPLIER'S DELEGATED
ENGINEER.TYPICAL FOR ALL WALKWAY

WALKWAY STRUCTURE AND
FOUNDATION TO BE DESIGNED BY
SUPPLIER'S DELEGATED
ENGINEER.TYPICAL FOR ALL
WALKWAY

WALKWAY STRUCTURE AND
FOUNDATION TO BE DESIGNED BY
SUPPLIER'S DELEGATED
ENGINEER.TYPICAL FOR ALL WALKWAY



KEYPLAN

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BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
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REVISIONS:

REV	REVISION NAME	DATE
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FOR BID:

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DRAWING TITLE:

WALKWAY CANOPY PLAN

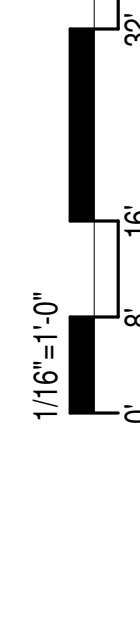
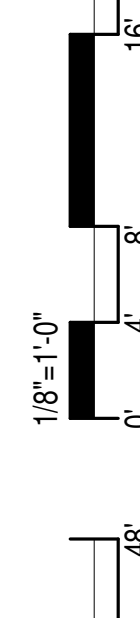
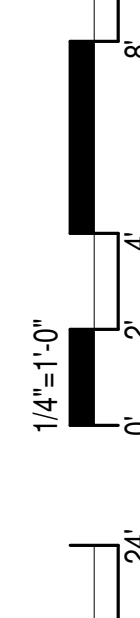
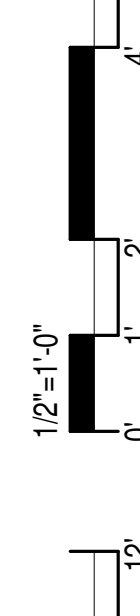
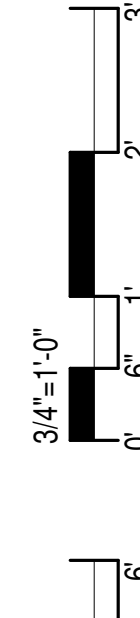
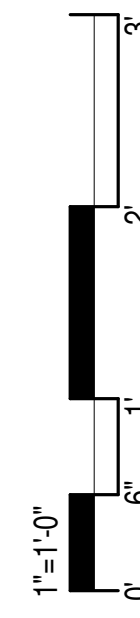
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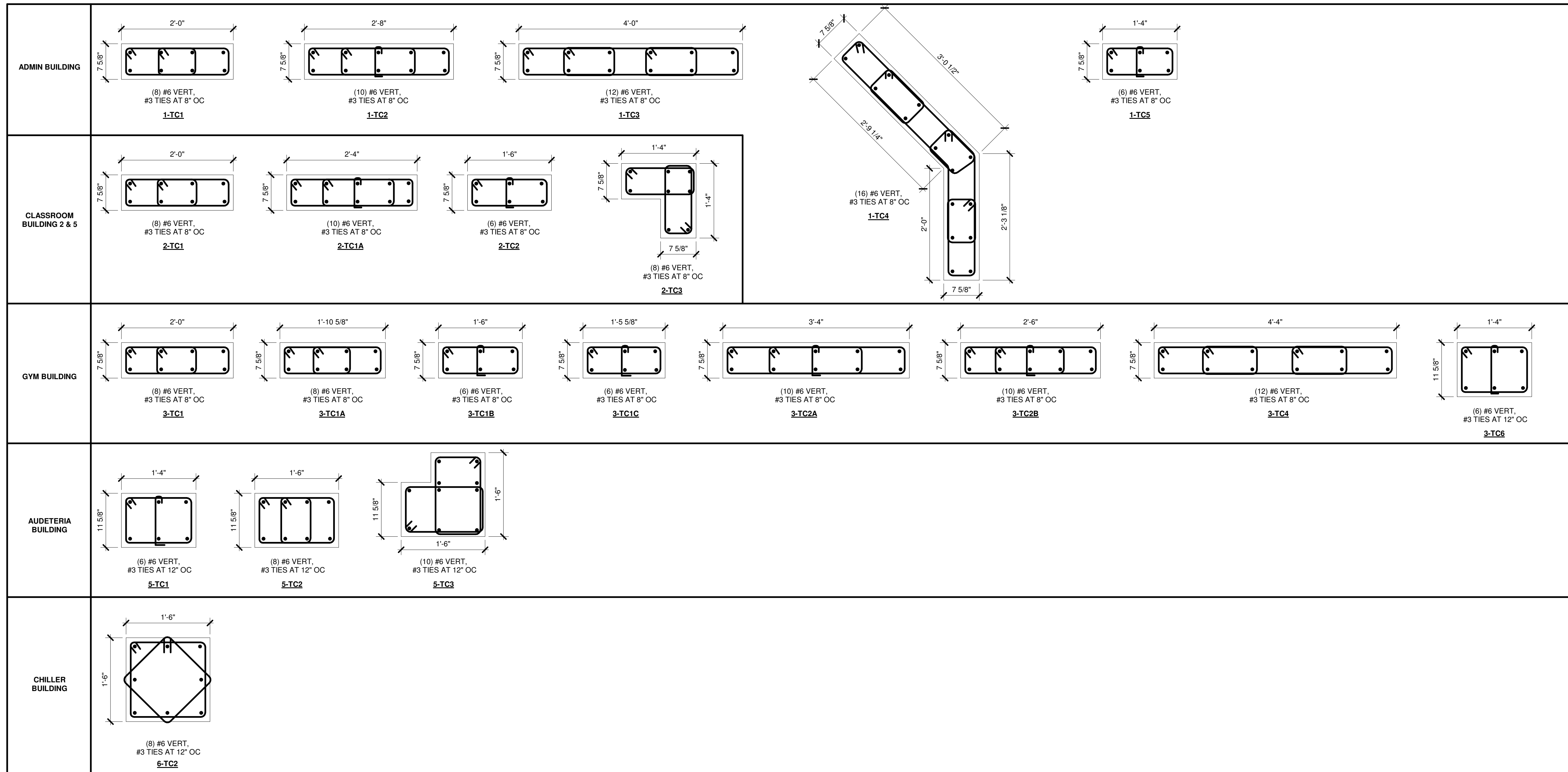
DRAWING NUMBER:

S6.4

[illegible]

LEVEL 3						LEVEL 3
27' - 4"						27' - 4"
LEVEL 2						LEVEL 2
14' - 0"	2-SC2 - W8X40	2SC1 - W8X31	1-SC1 - W8X35		1-SC2 - HSS4X4(12)	14' - 0"
LEVEL 1						LEVEL 1
0' - 0"						0' - 0"
Column Locations	C7-CC	C7-CE, C7-CJ, C7-CL	D2-DB, D2-DD, D2-DF, D2-DH, D5-DK, D7-DK, D9-DK, D10(-7' - 4 1/4')-DK	D6-DC, D6-DE, D6-DG(1' - 0.5/8"), D8-DD(5' - 6"), D8-DG, D10-DC		

STEEL COLUMN SCHEDULE



1 COLUMN SCHEDULE
S7.2 1" = 1'-0"

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2026-06-30 22:09:03

Autodesk Docs://26K014 - St Lucie PS - Green Zone K-8/26FTL005 St. Lucie Green S R26.rvt

CODE REVIEW:

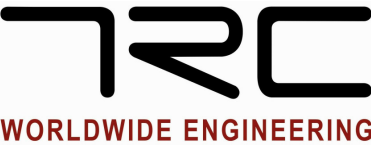
CERTIFICATE:



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PHONE: 888.974.7666

SEAL & SIGNATURE:

CONSULTANTS:



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Certificate of Authorization No. 35826

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE
COMPLETED STRUCTURE DEPICTED ON THESE PLANS
COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES

BID PACKAGE 3 - EARLY
FOOTINGS AND CMU
6/30/2026

PROJECT

ST. LUCIE GREEN ZONE K-8
SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL
34950

FOR

ST. LUCIE SCHOOL
DISTRICT

9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

FOR CODE REVIEW:

08/26/202

REVISIONS:

	REVISION NAME	DATE
---	---------------	------

FOR BIDDING

08/26/2012

DRAWING TITLE:

COLUMN SCHEDULES

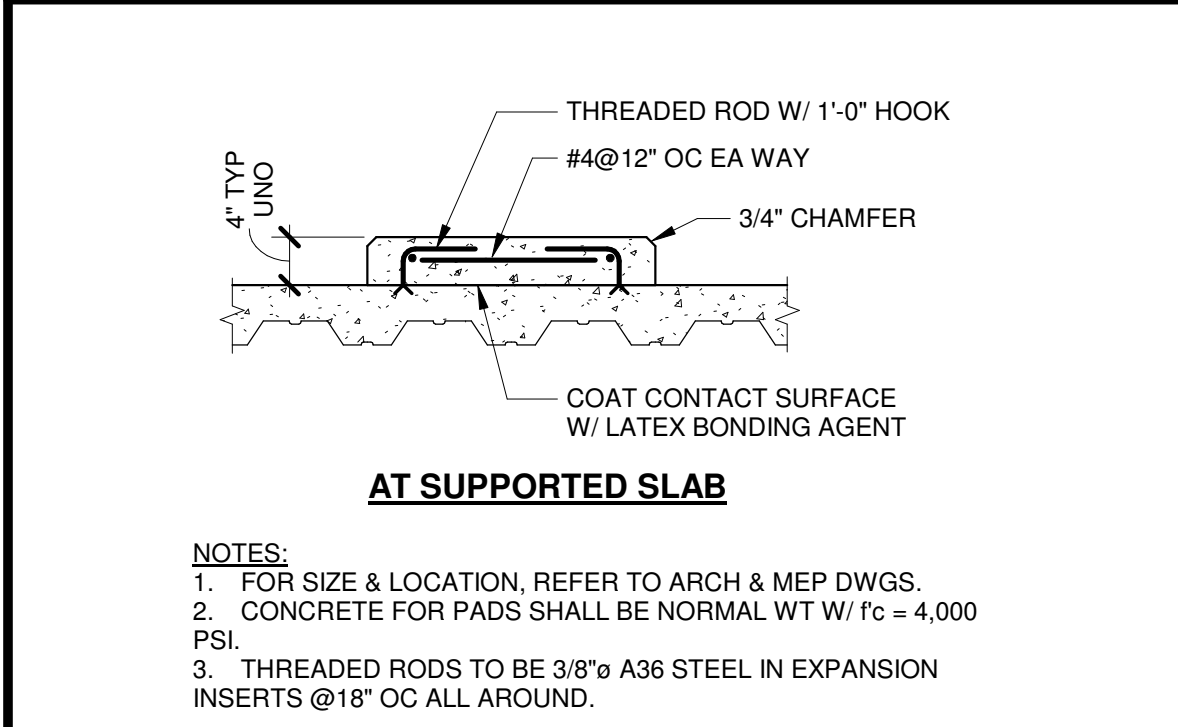
26K014

DO NOT SCALE THE DRAWINGS

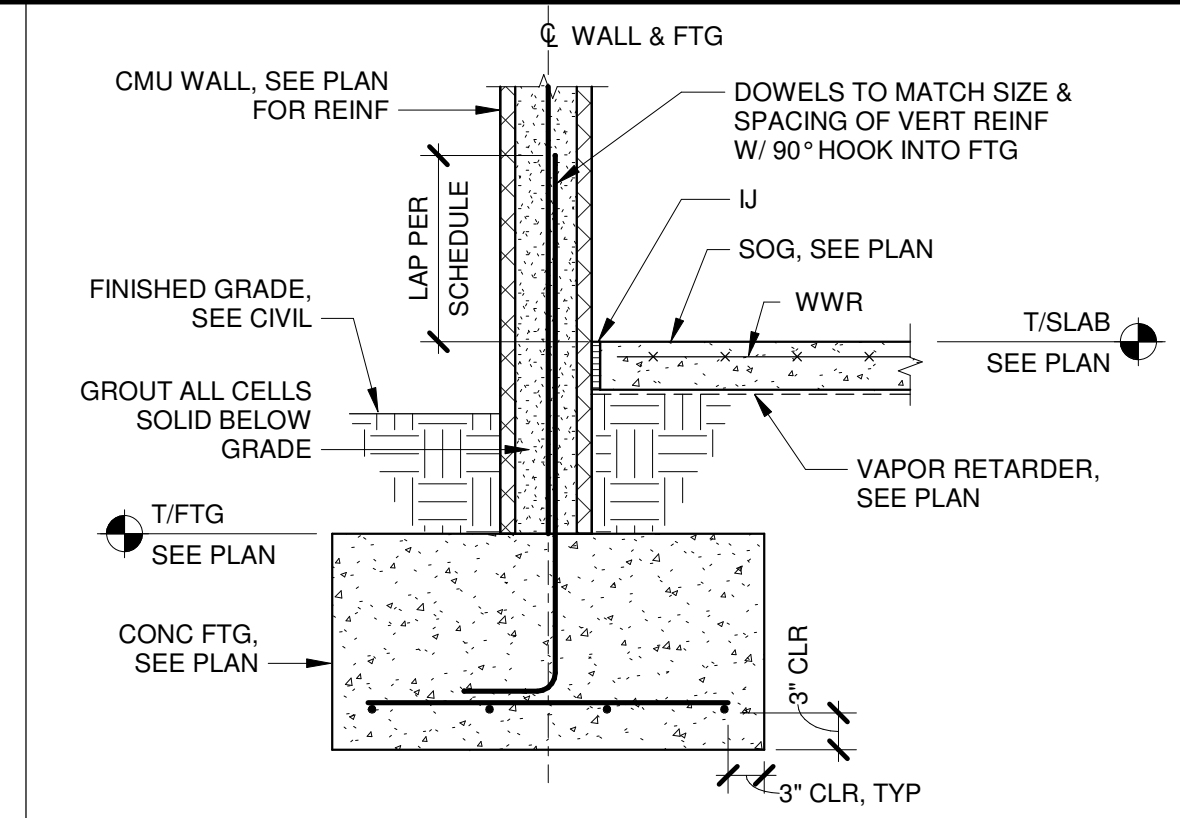
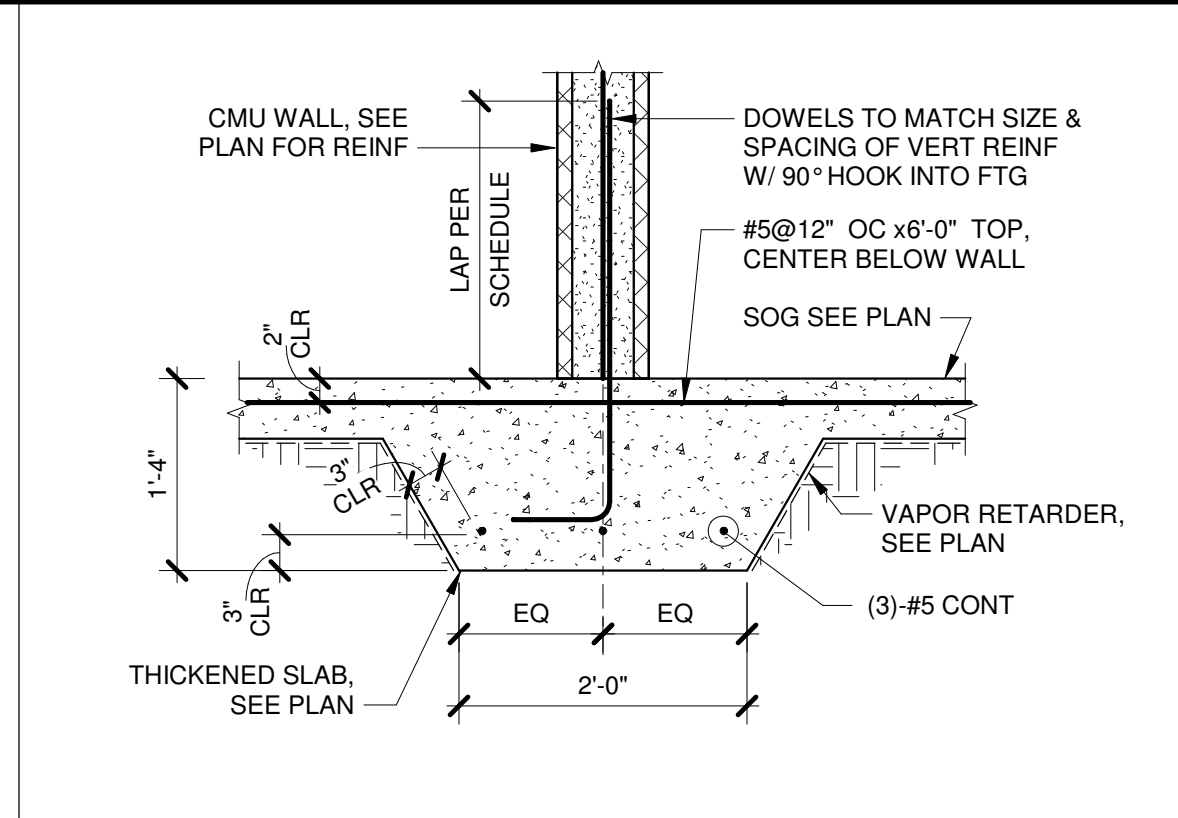
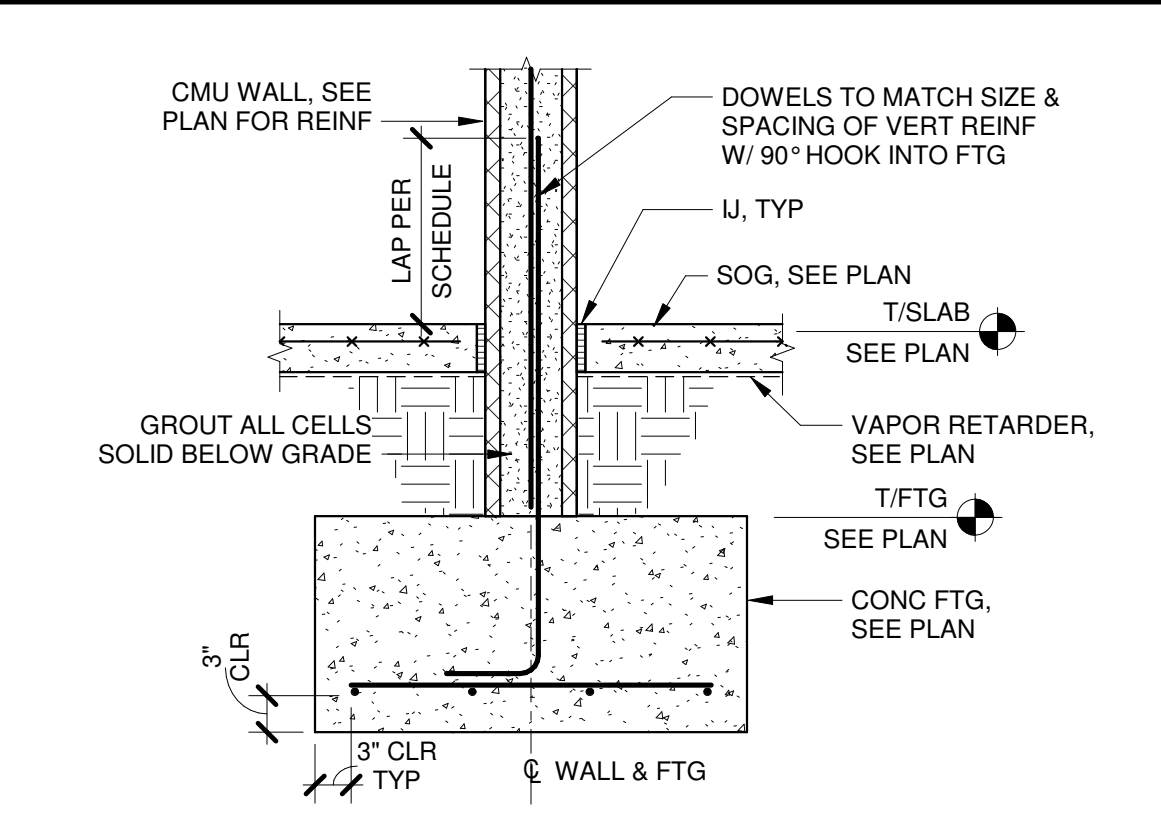
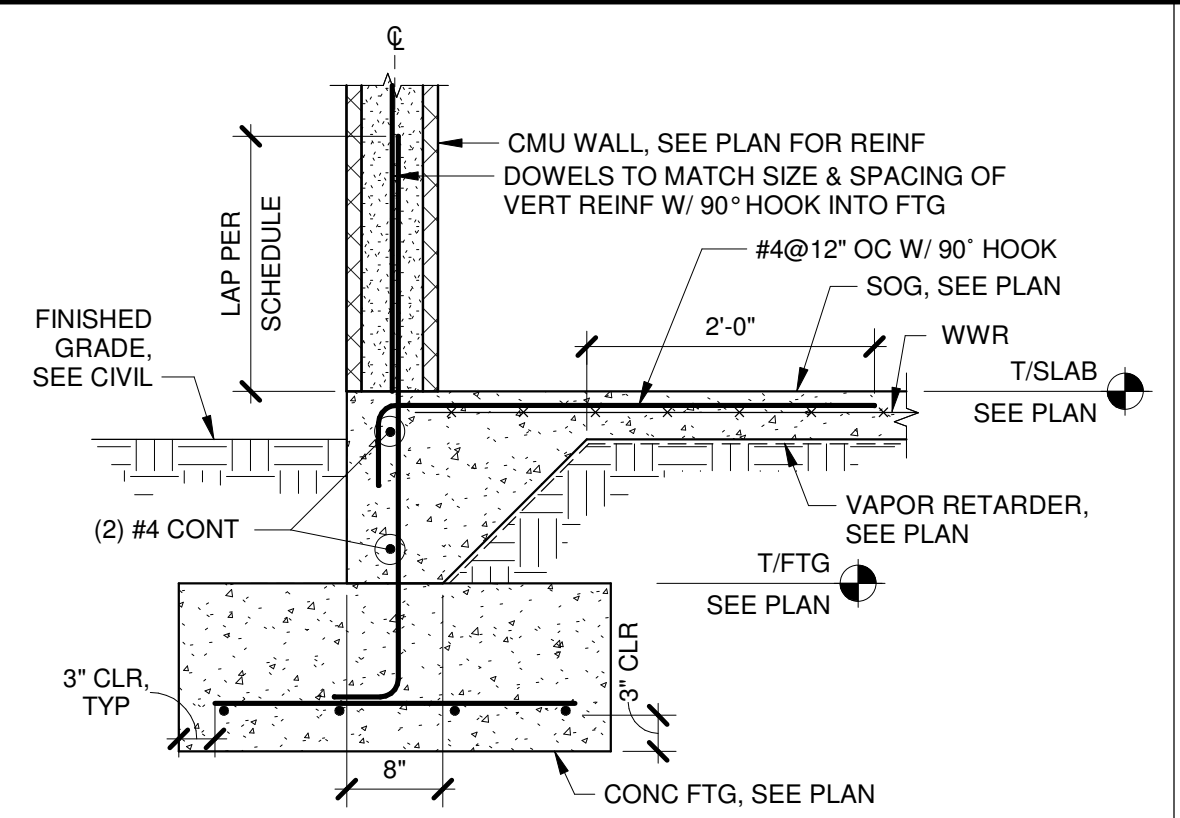
DRAWING NUMBER

S7.2

THIS DRAWING IS FORMATTED TO BE PRINTED AT 30"x42"



SCHEDULE		
WALL THICKNESS	BAR	LAP
8"	#4	1'-8"
8"	#5	2'-1"
8"	#6	3'-7"
8"	#7	4'-11"
12"	#4	1'-8"
12"	#5	2'-1"
12"	#6	3'-3"
12"	#7	3'-10"



HOUSEKEEPING PAD AT SOG & ELEVATED SLAB

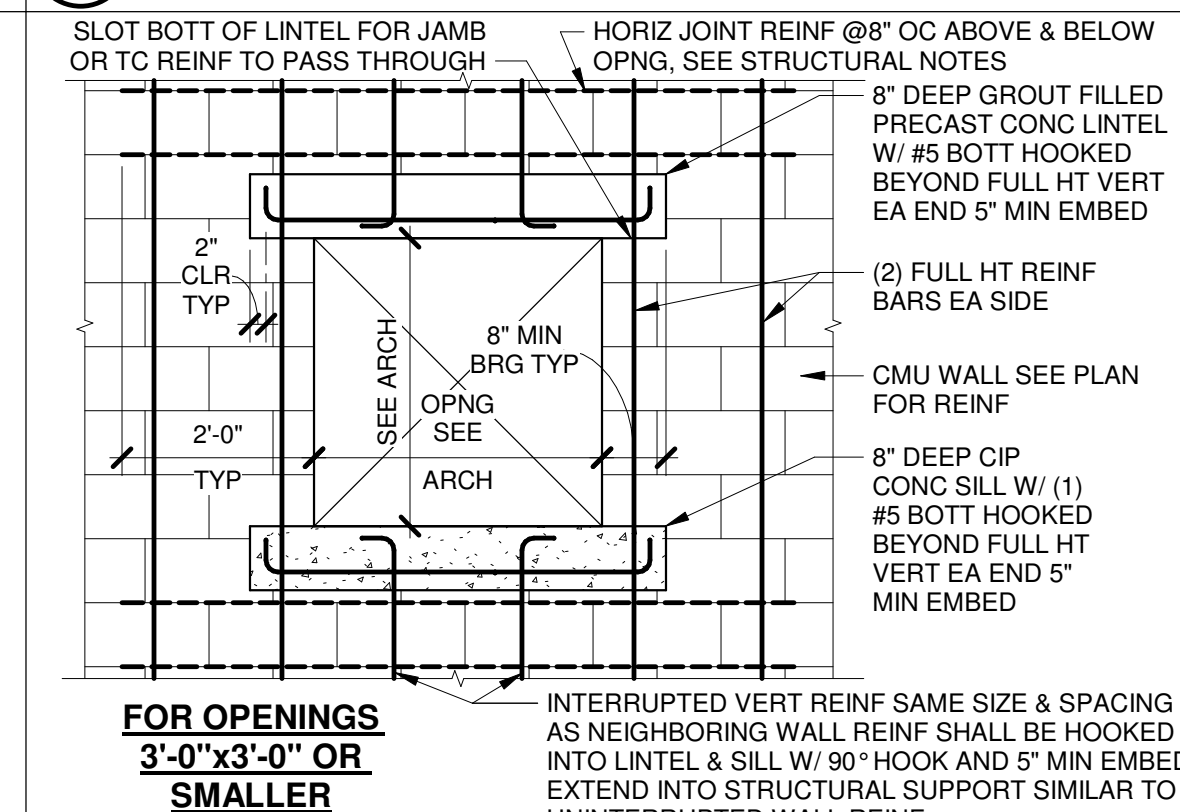
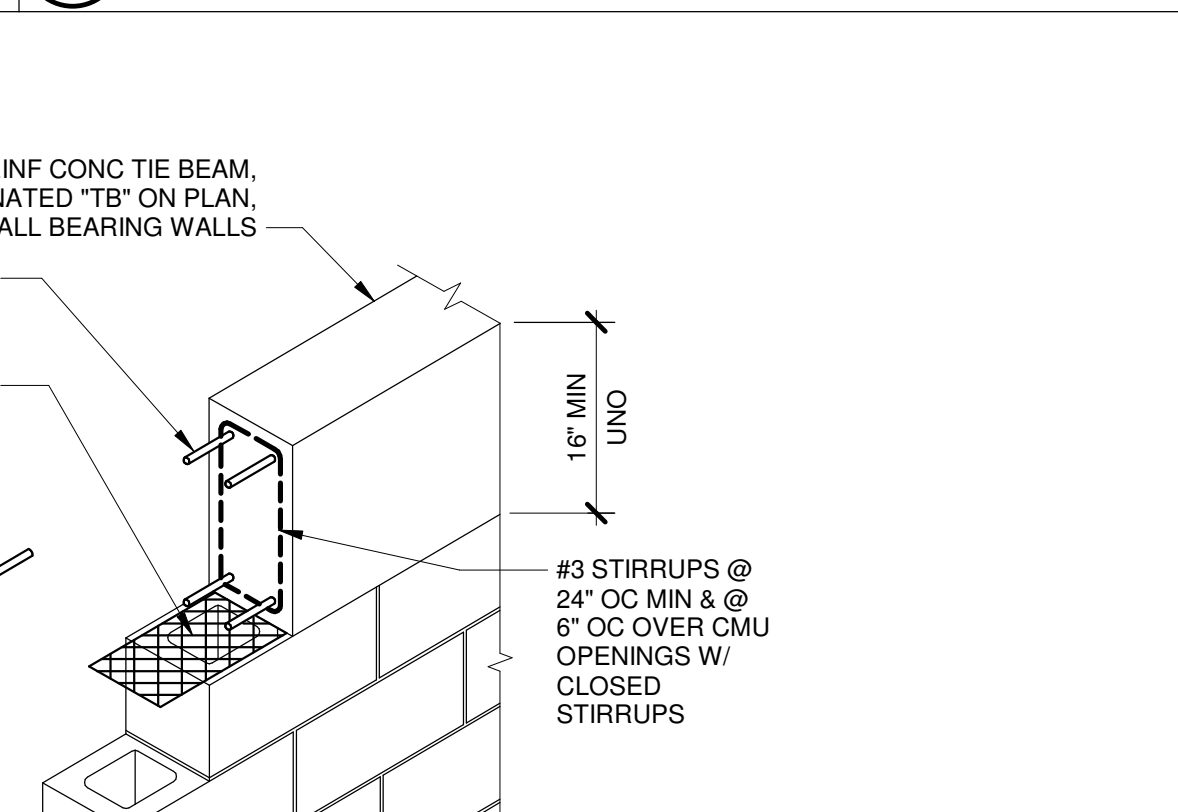
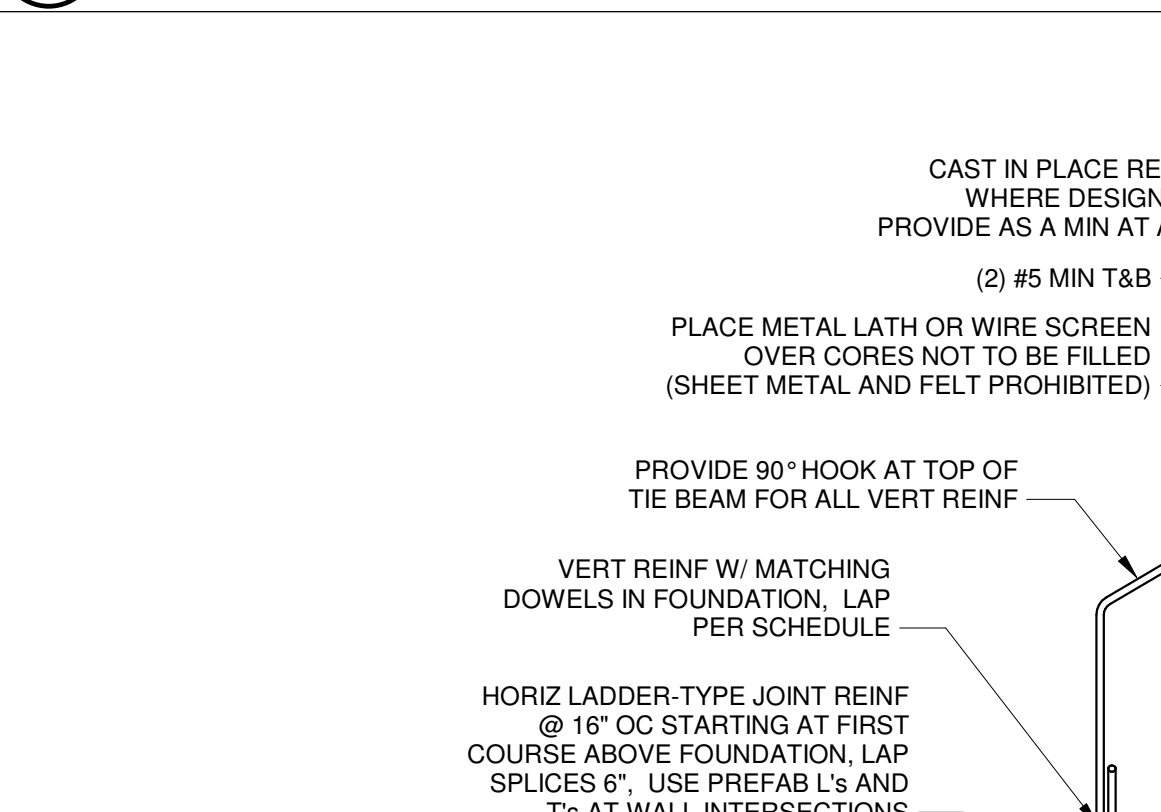
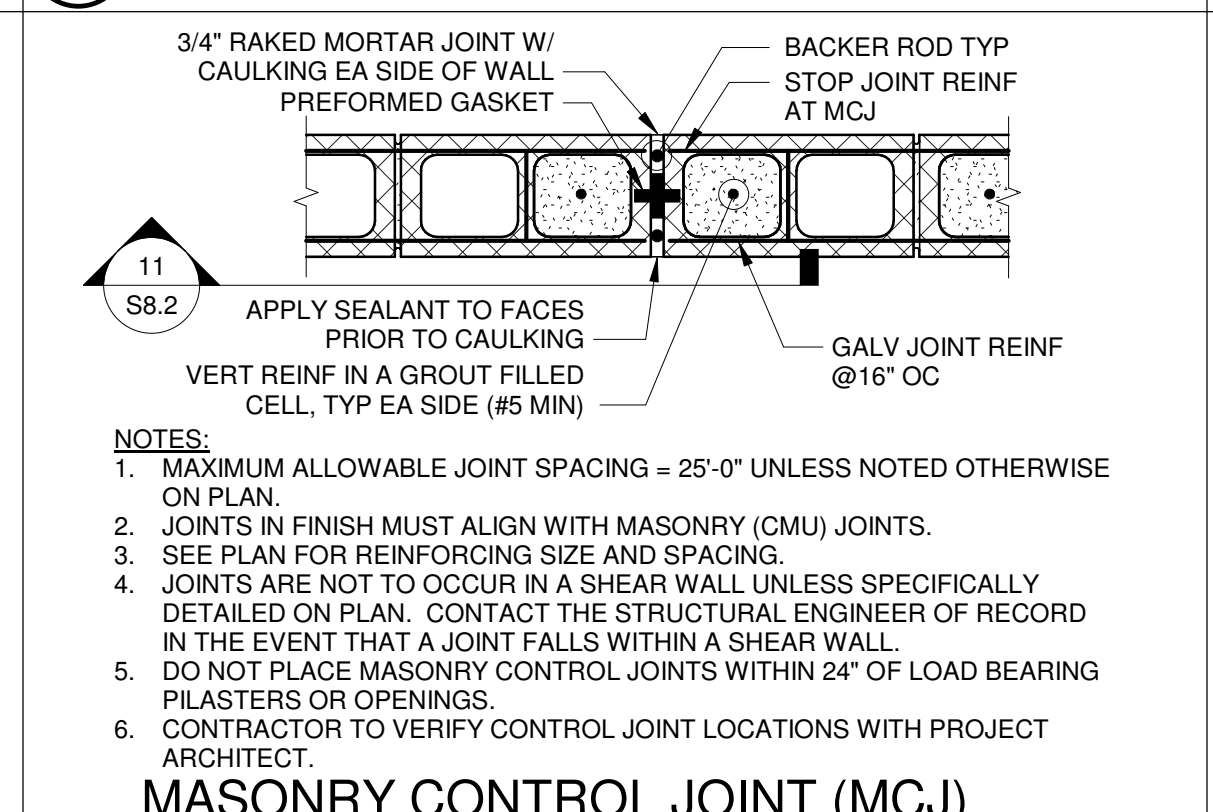
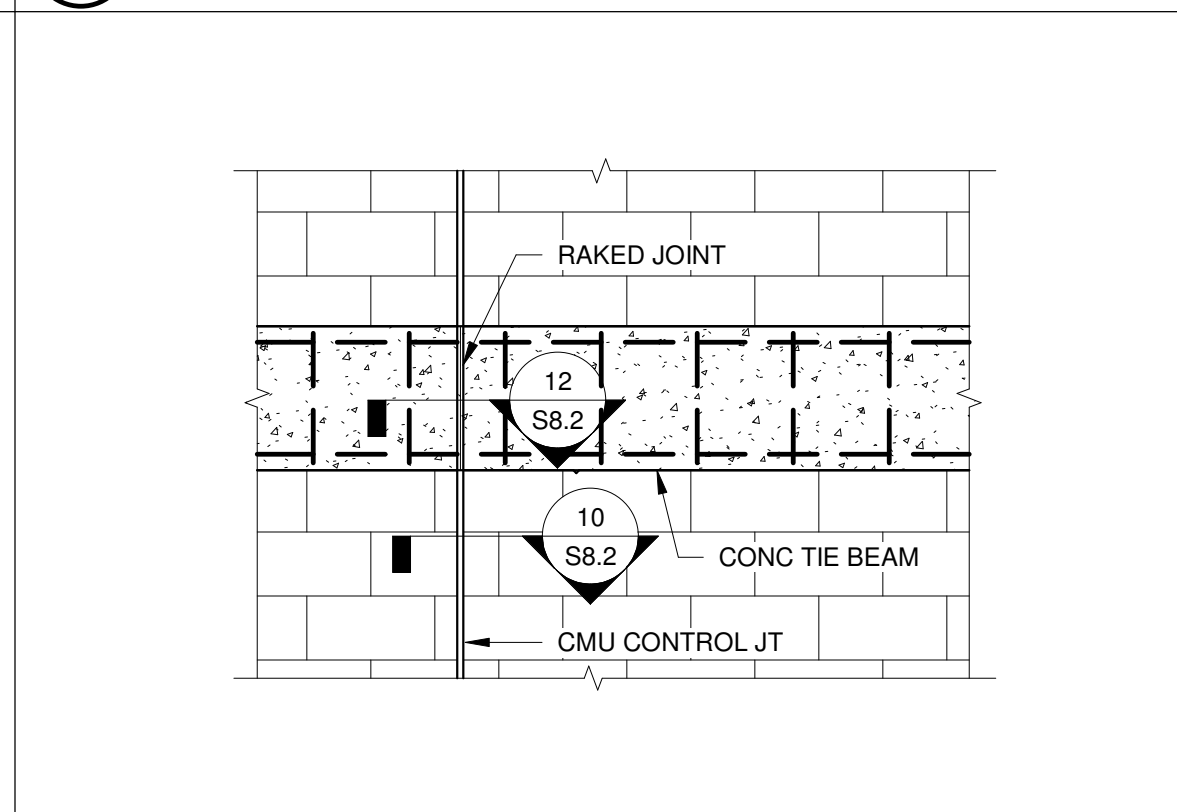
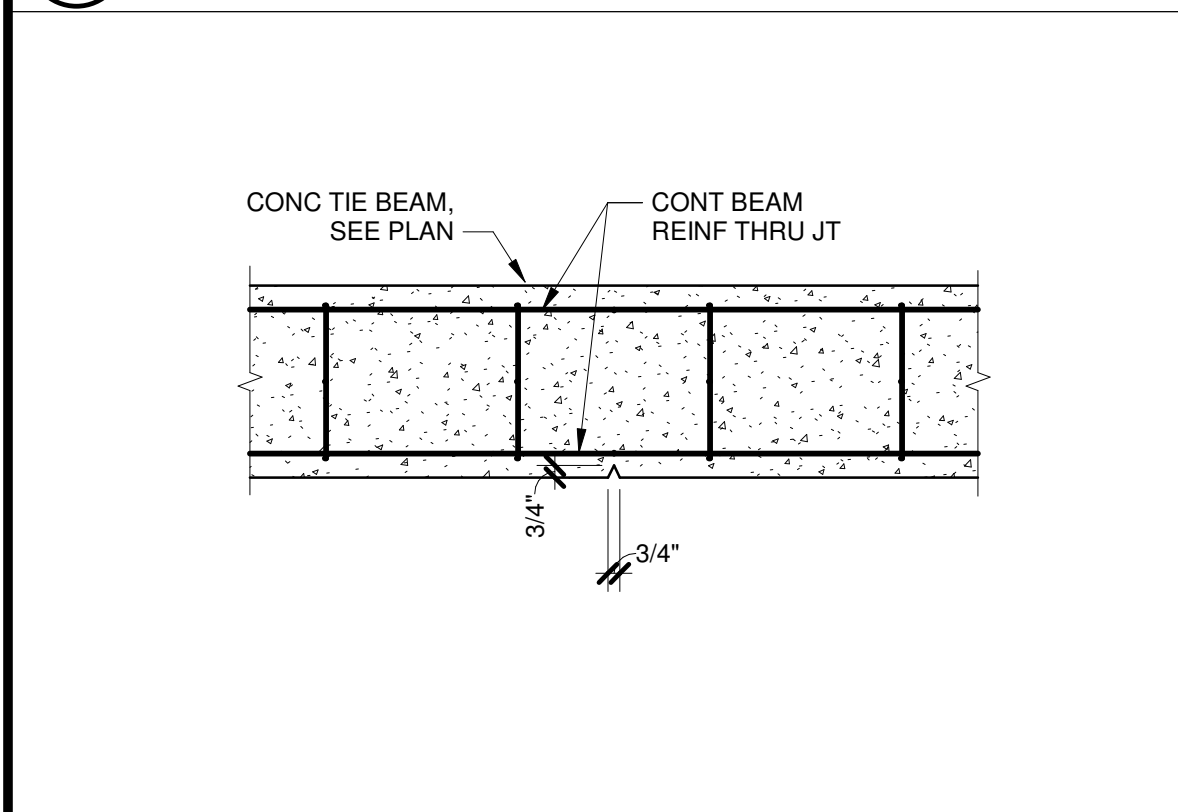
CMU VERTICAL REINFORCING LAP SCHEDULE

CMU AT CONCRETE POURDOWN

CMU AT INTERIOR WALL FOOTING

CMU AT THICKENED SLAB FOOTING

CMU AT EXTERIOR WALL FOOTING



SECTION AT MCJ

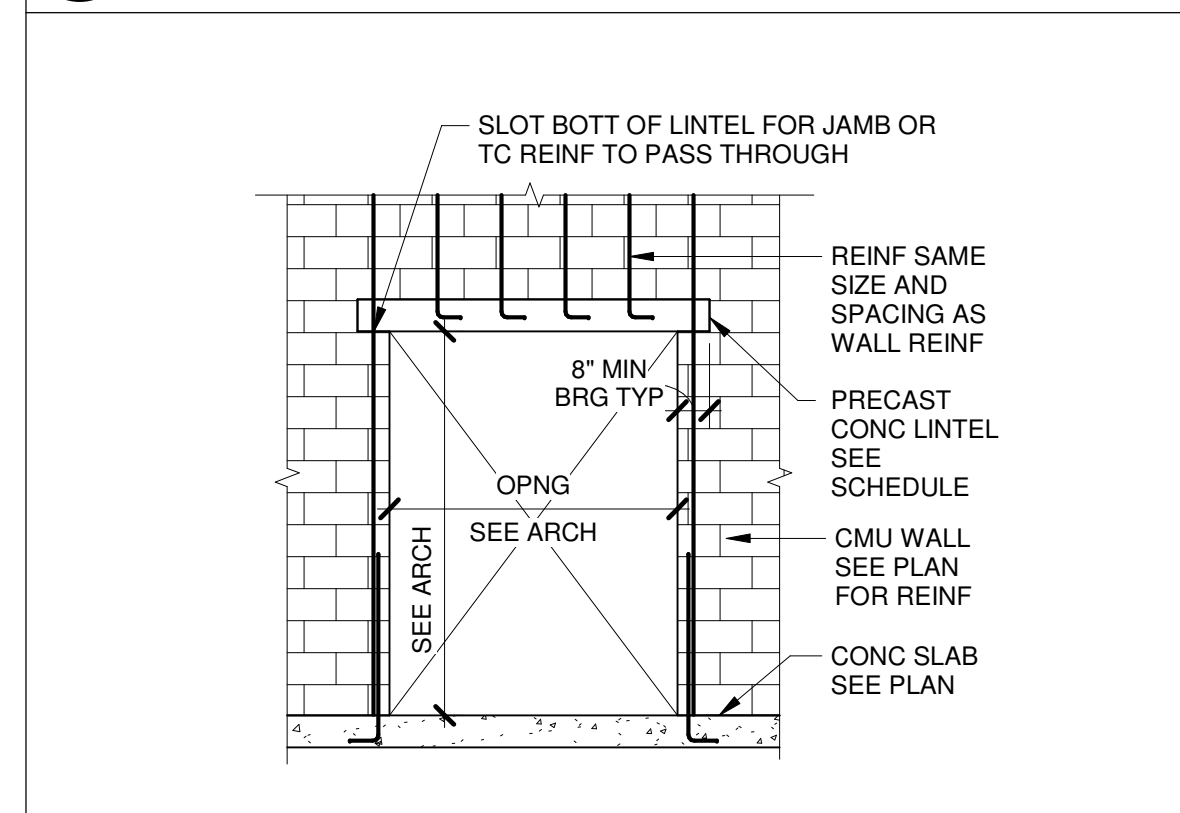
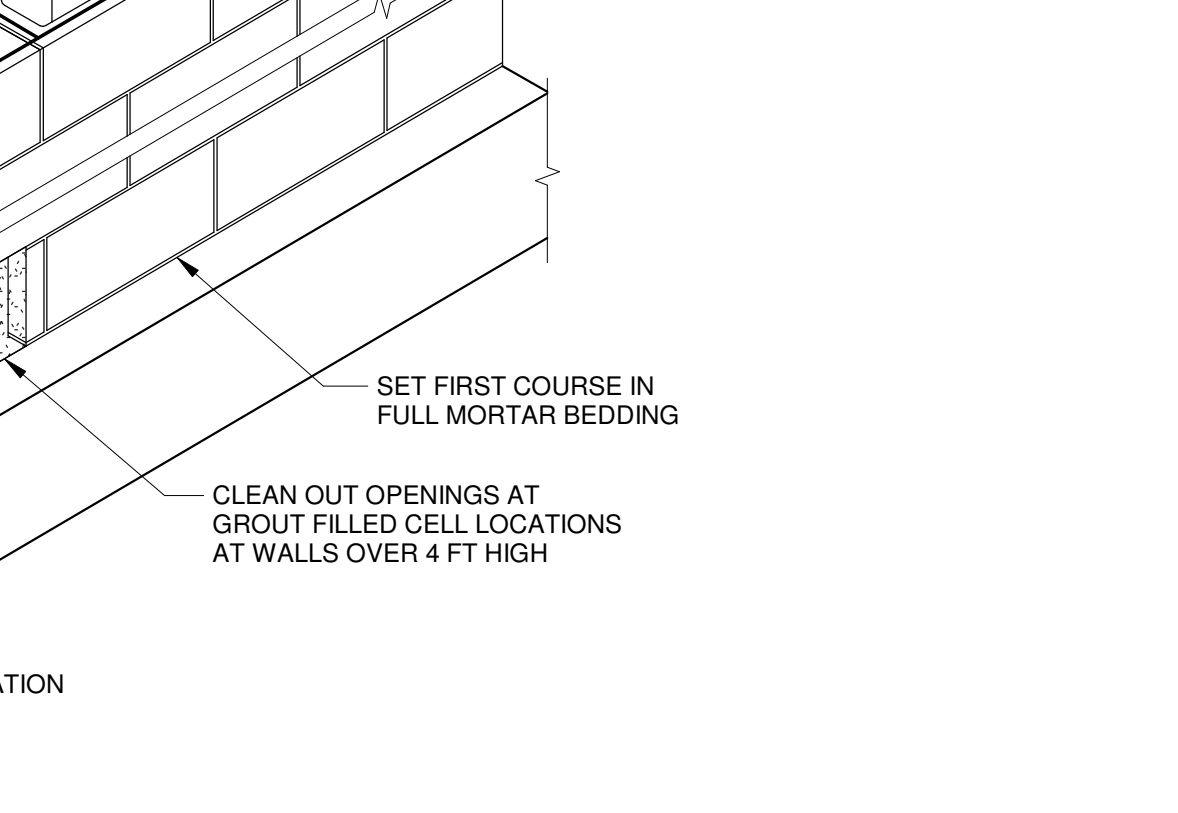
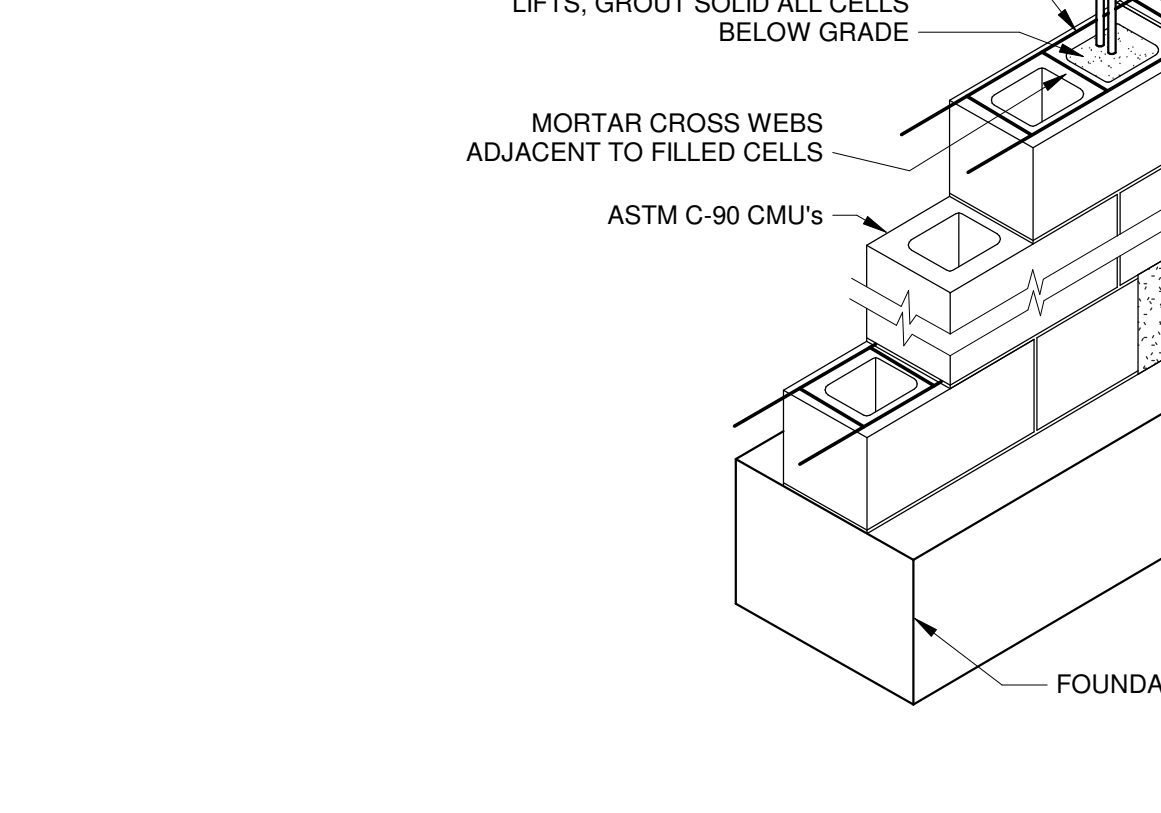
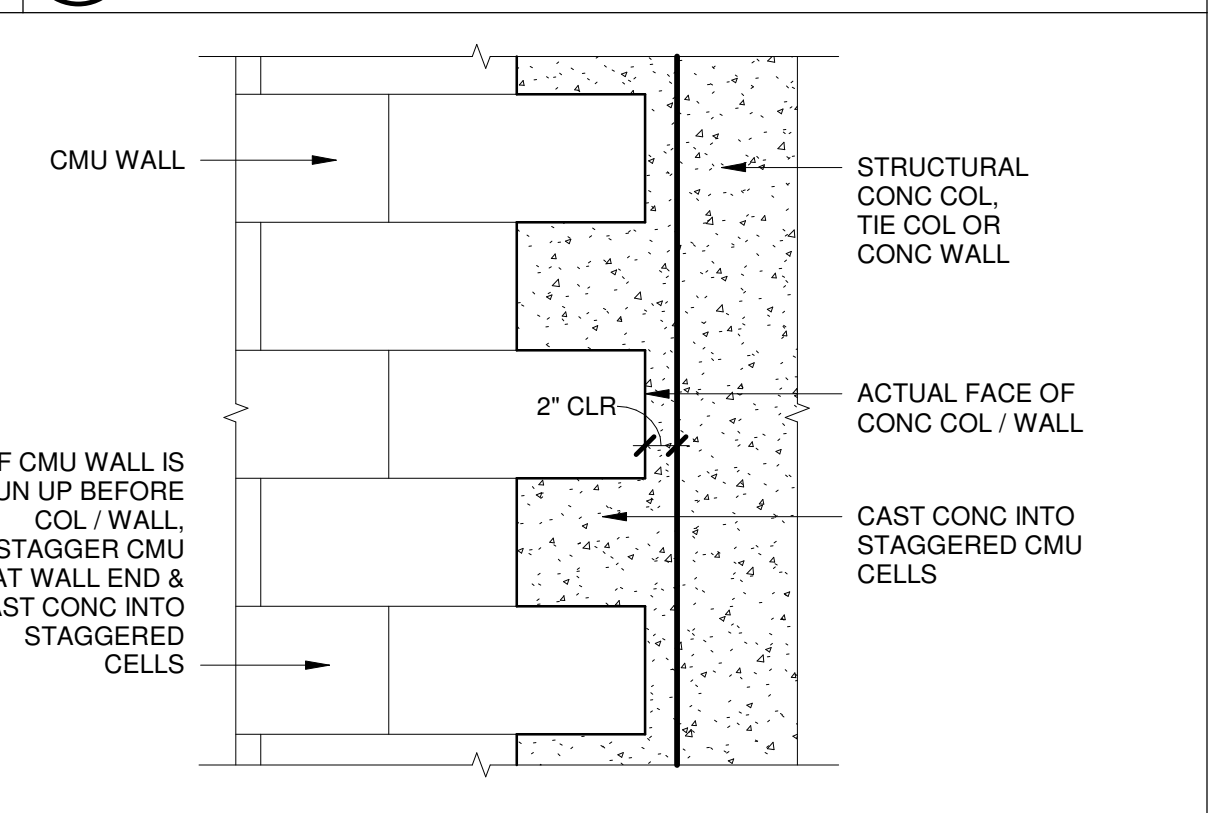
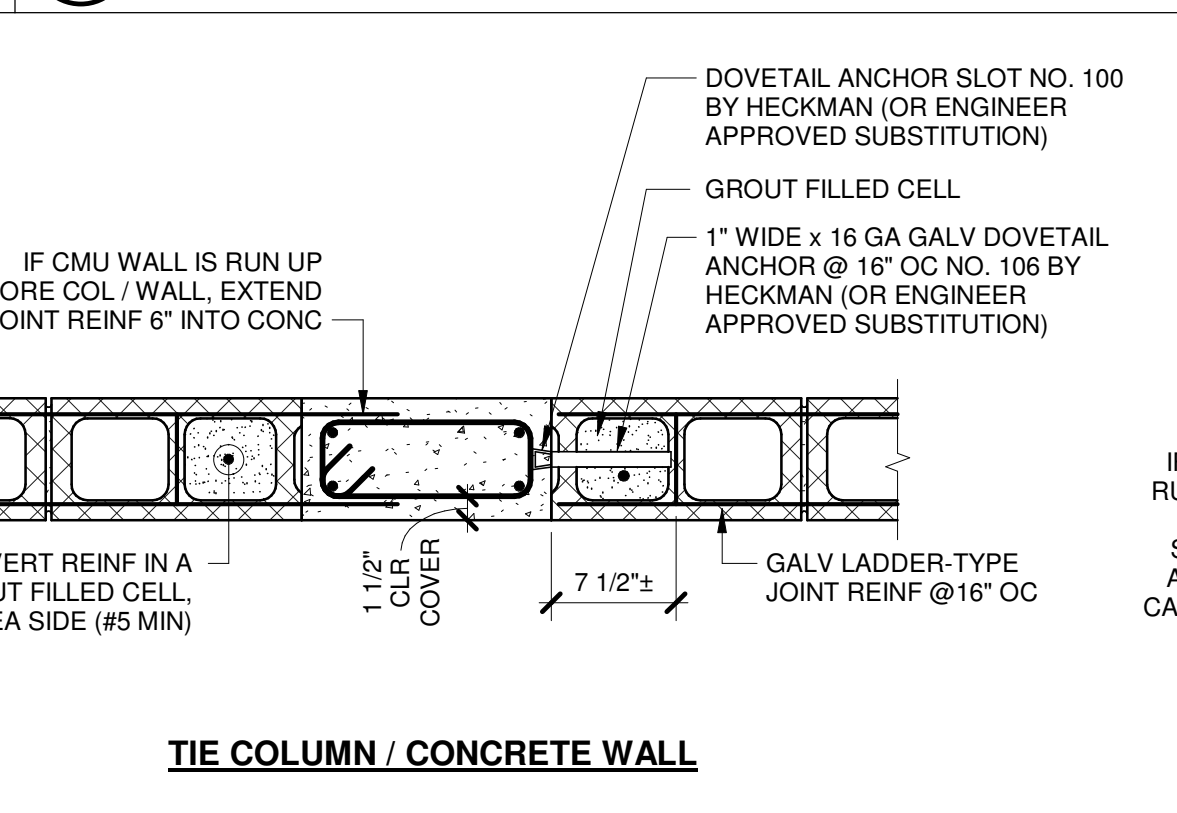
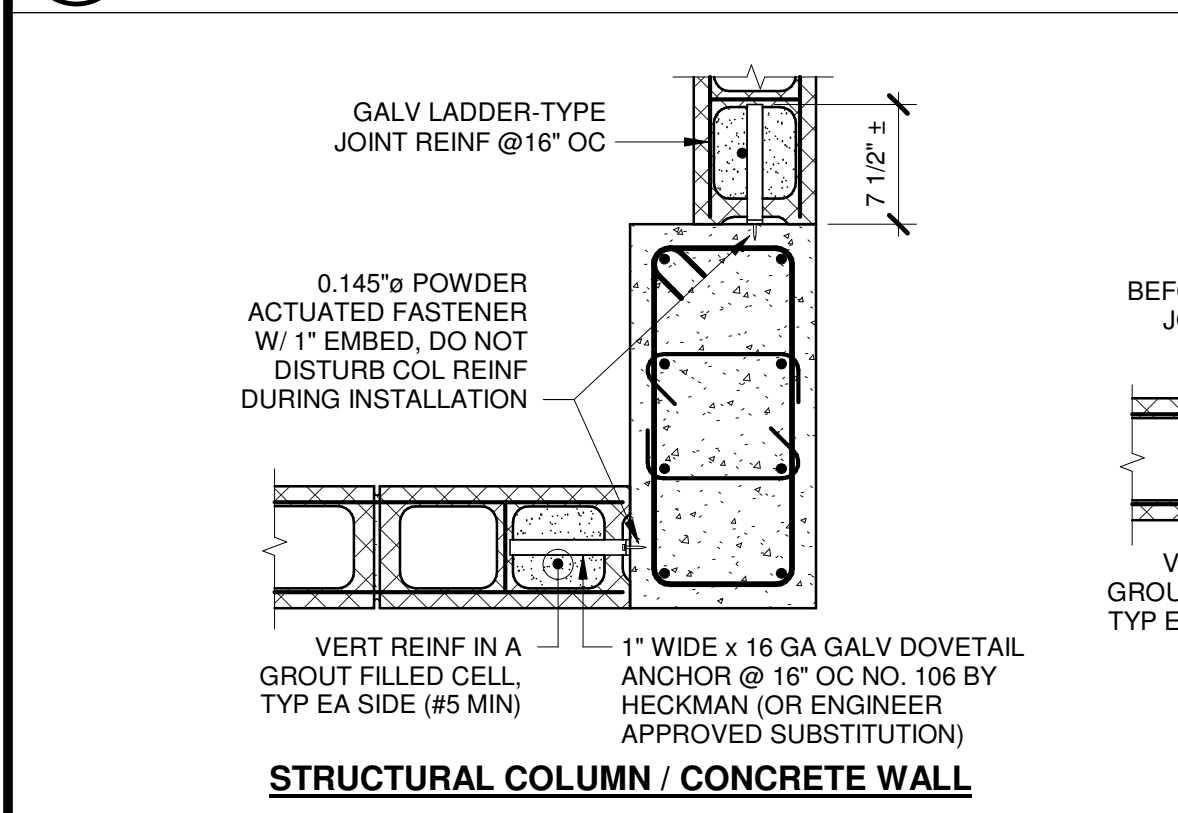
SECTION AT MCJ

SECTION AT MCJ

SECTION AT MCJ

SECTION AT MCJ

SECTION AT MCJ



STRUCTURAL COLUMN / CONCRETE WALL

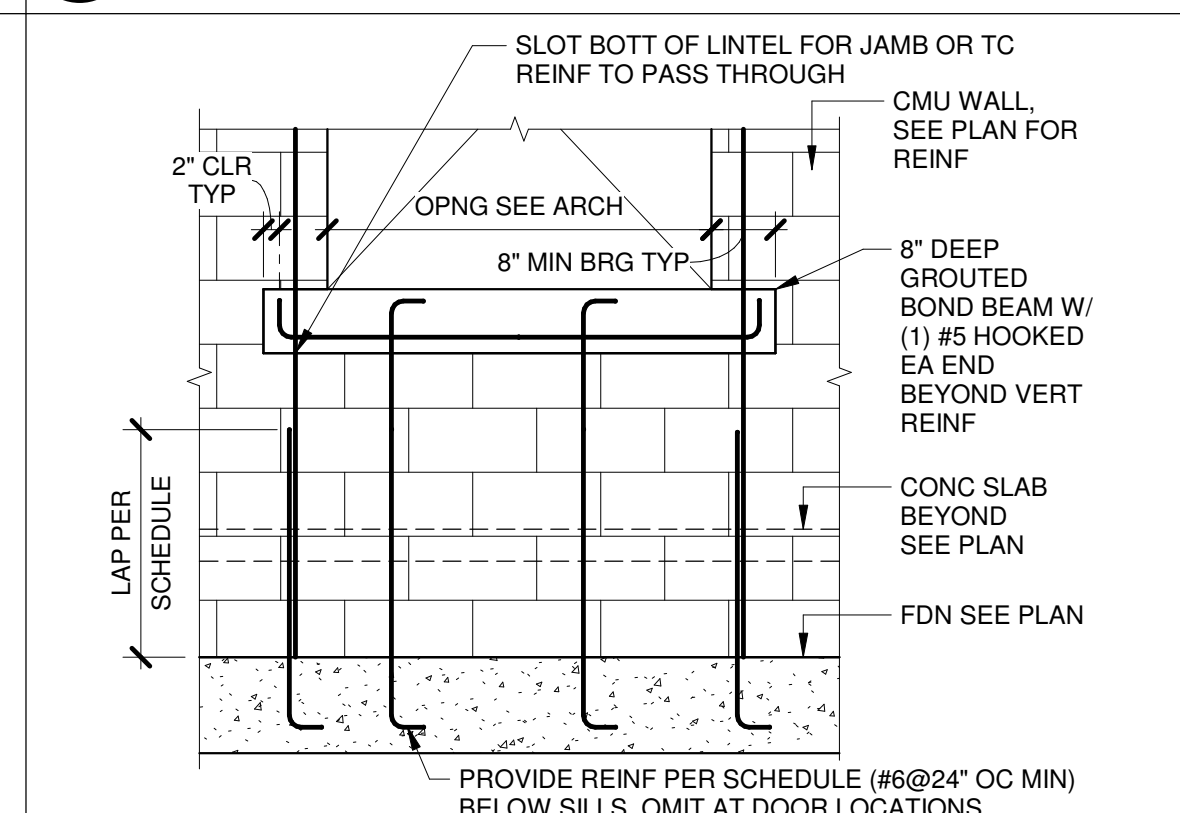
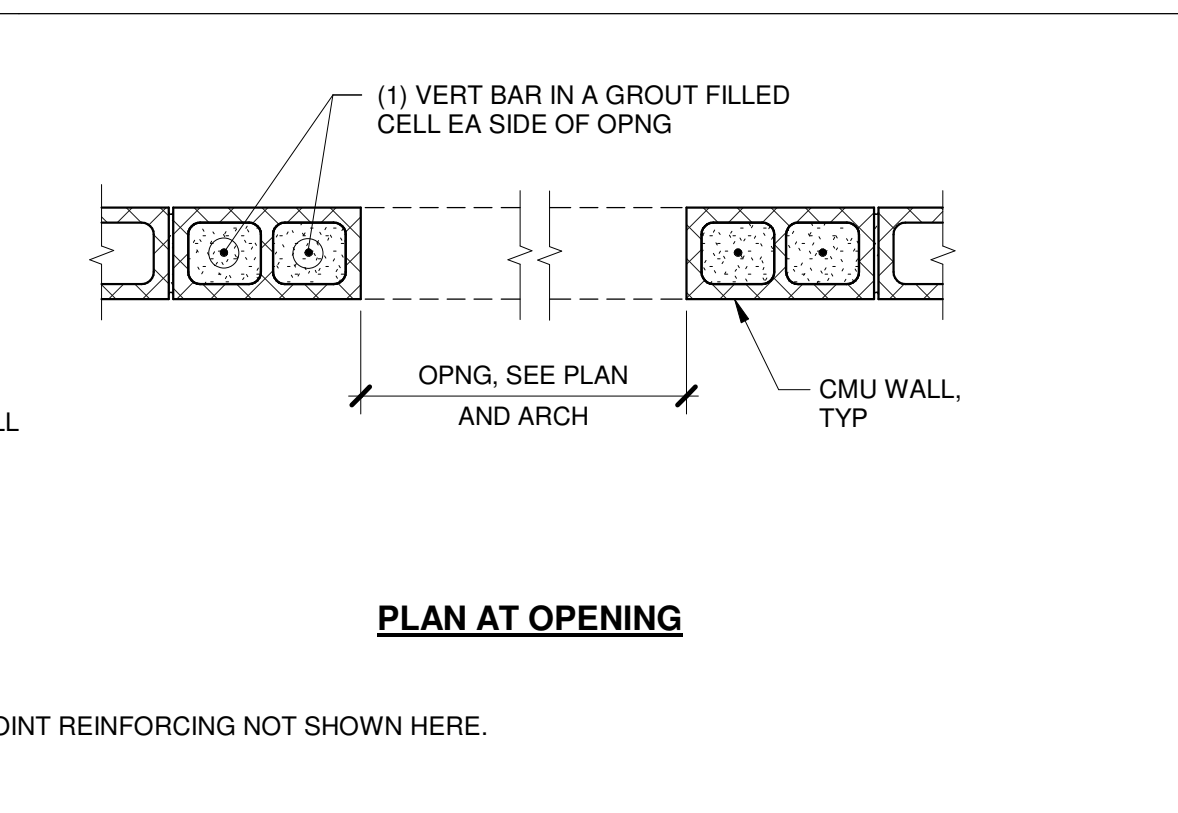
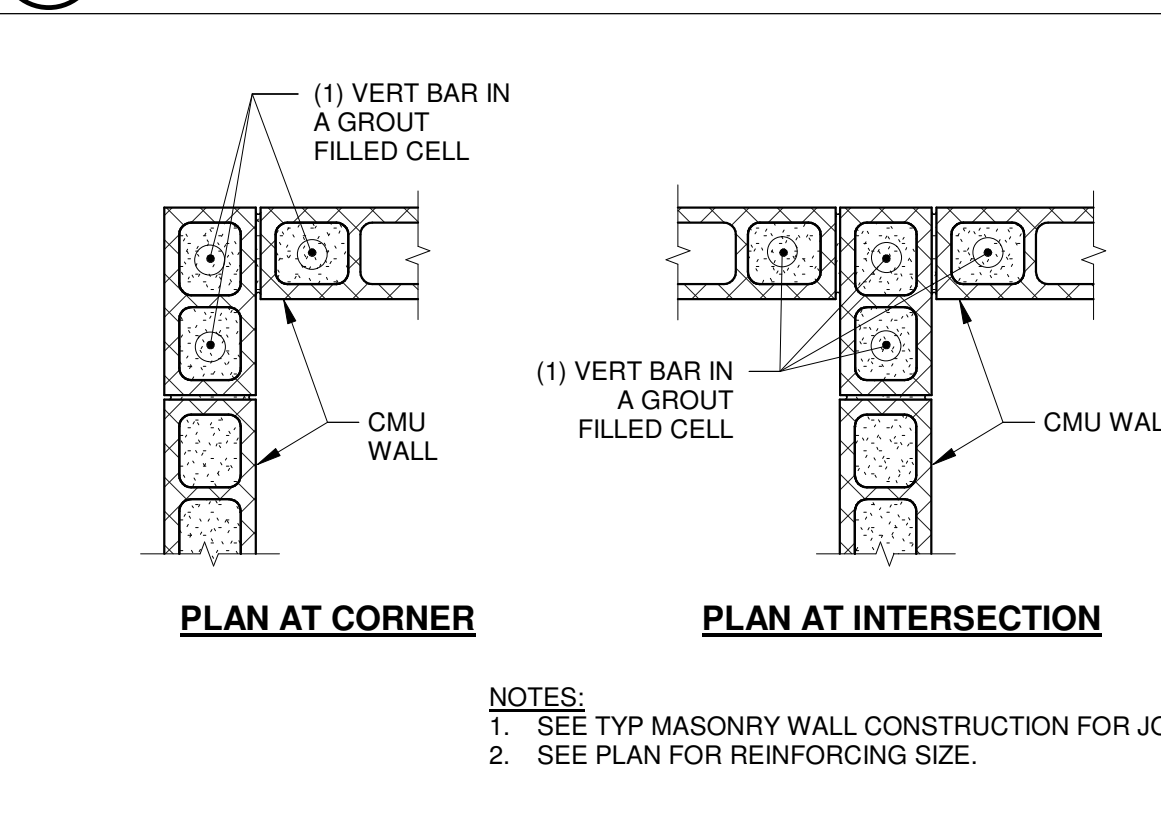
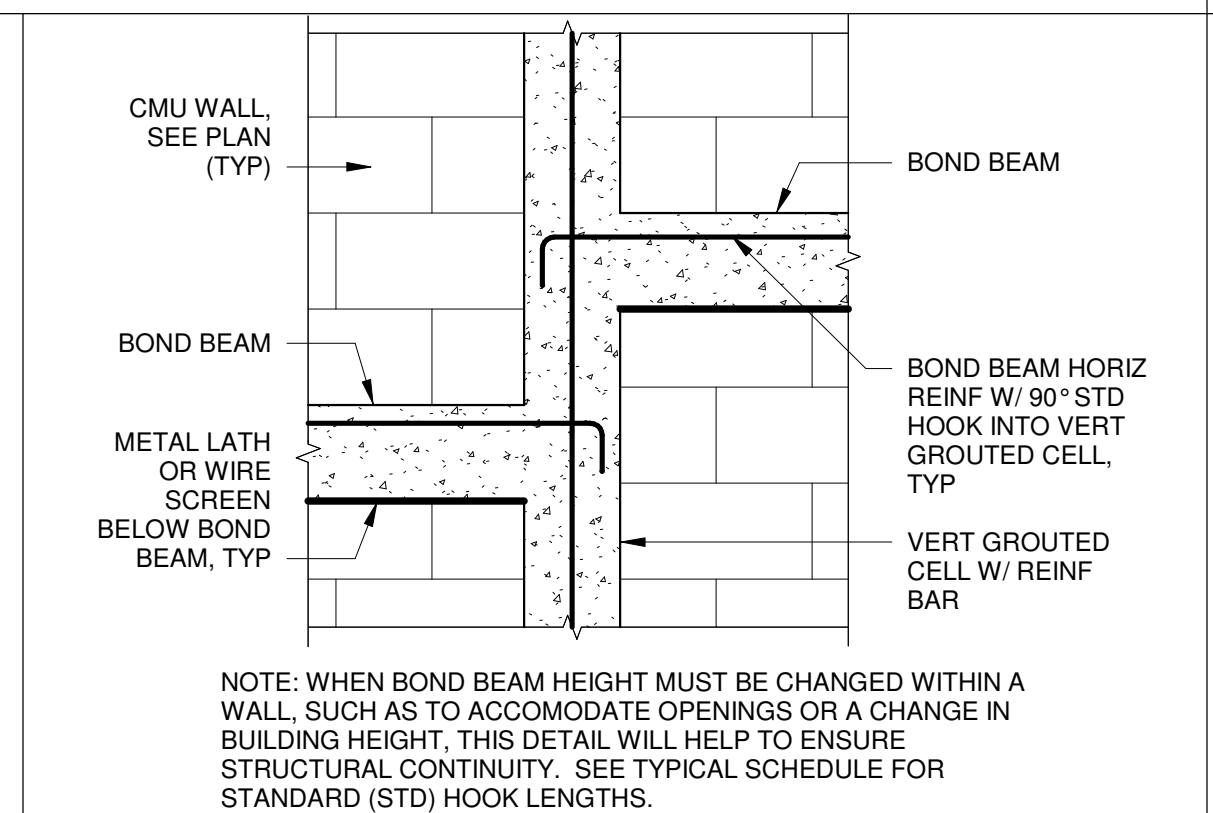
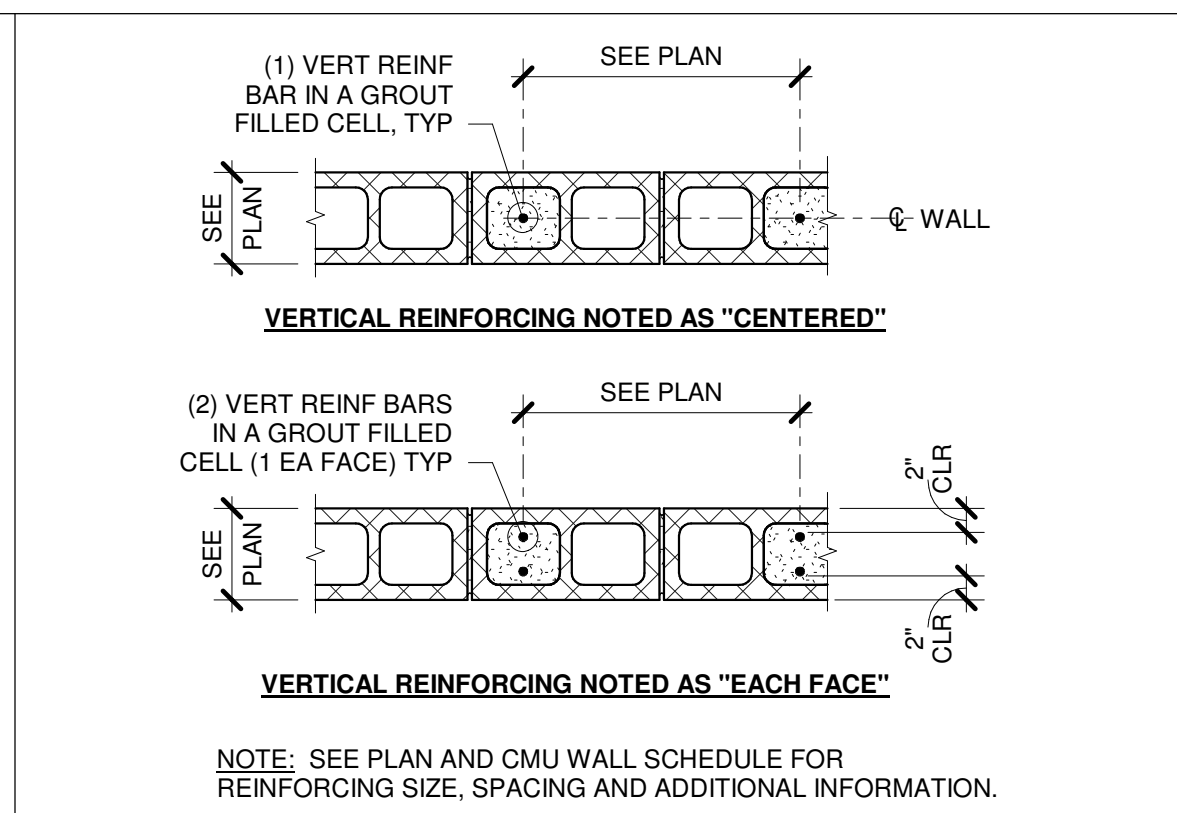
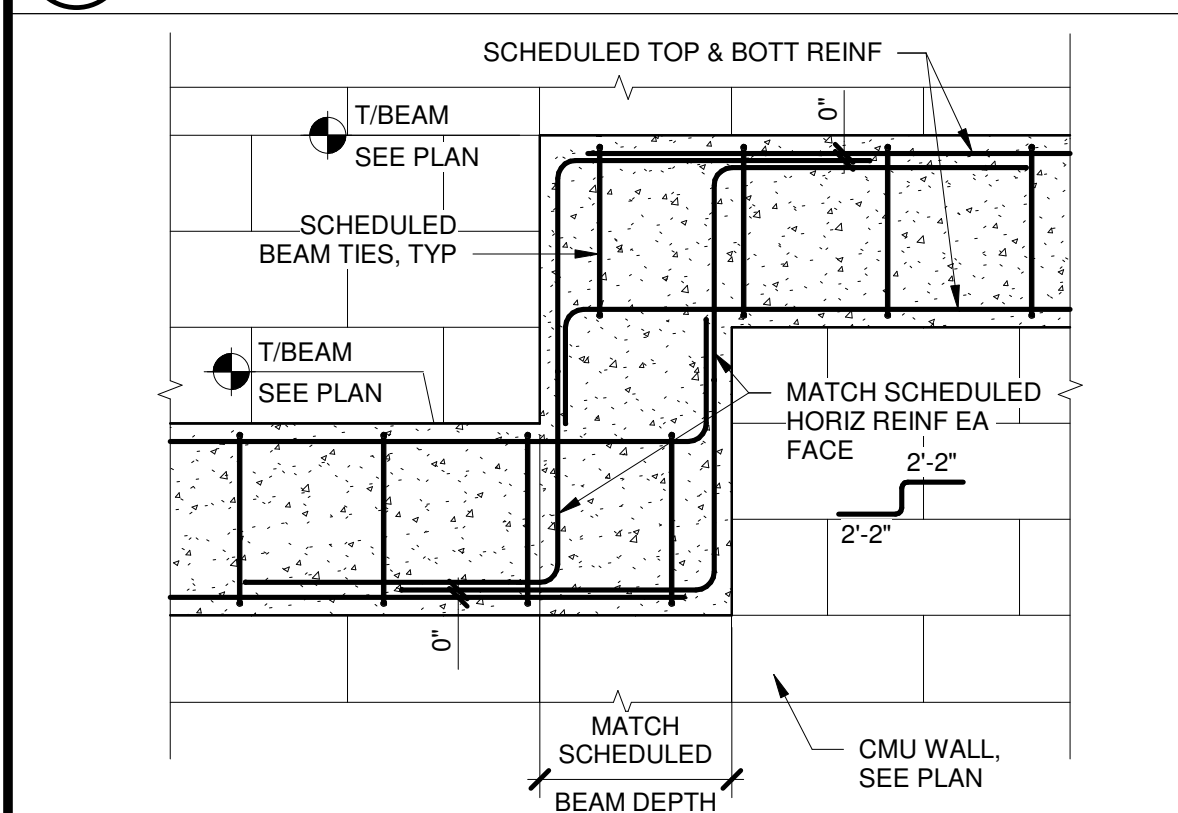
TIE COLUMN / CONCRETE WALL

ALTERNATE CONNECTION

TYP MASONRY (CMU) WALL CONSTRUCTION

TYP MASONRY (CMU) WALL CONSTRUCTION

TYP MASONRY (CMU) WALL CONSTRUCTION



CMU ANCHORAGE TO CONCRETE

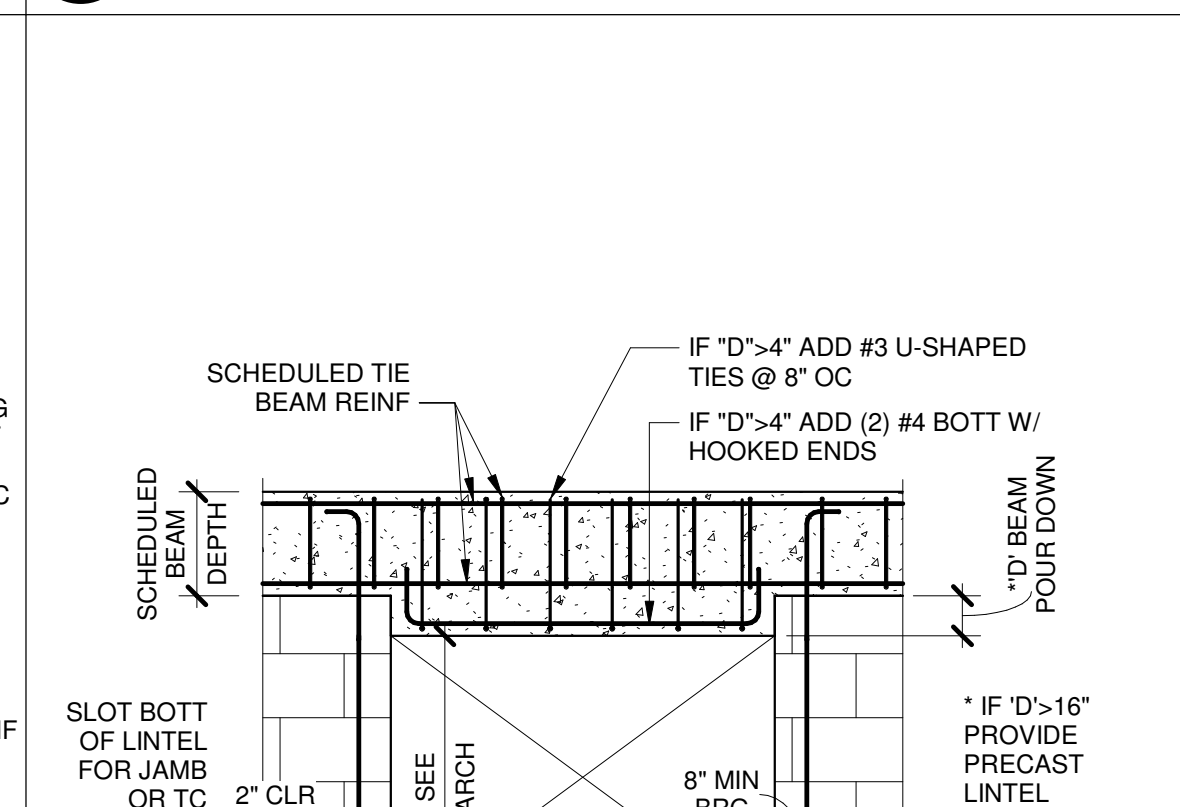
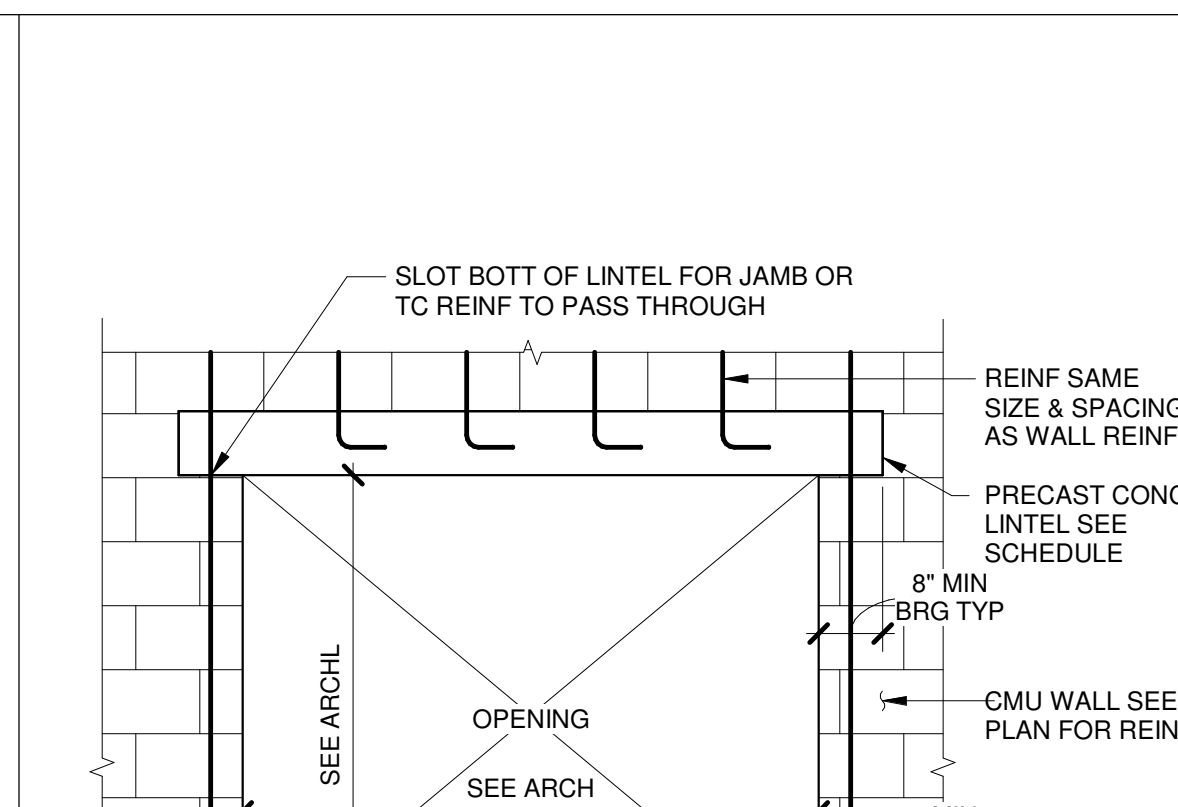
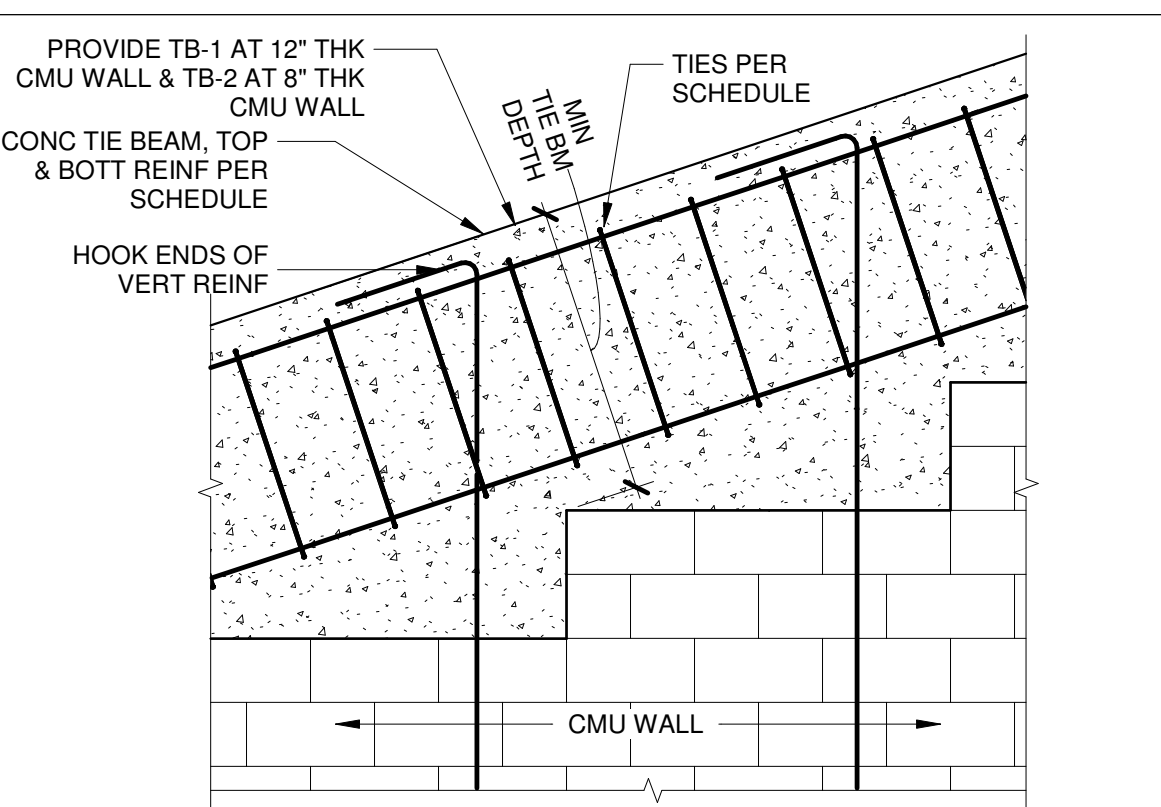
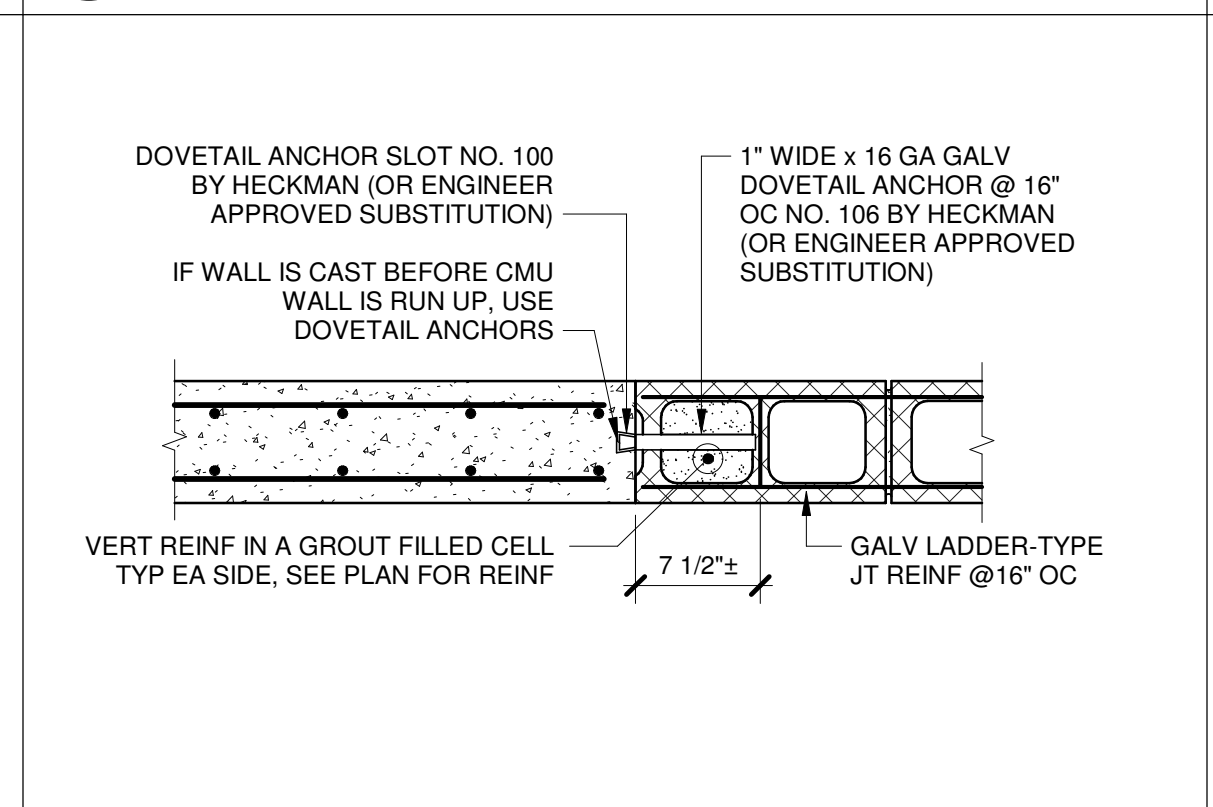
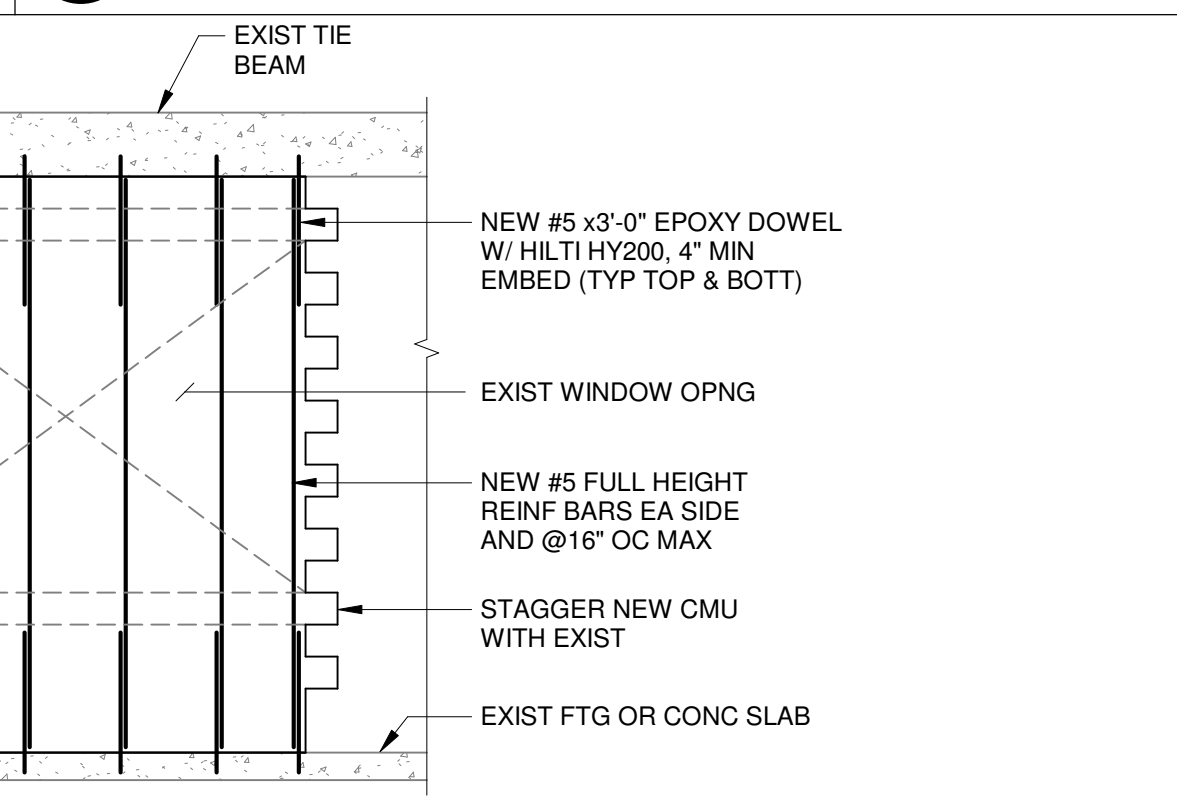
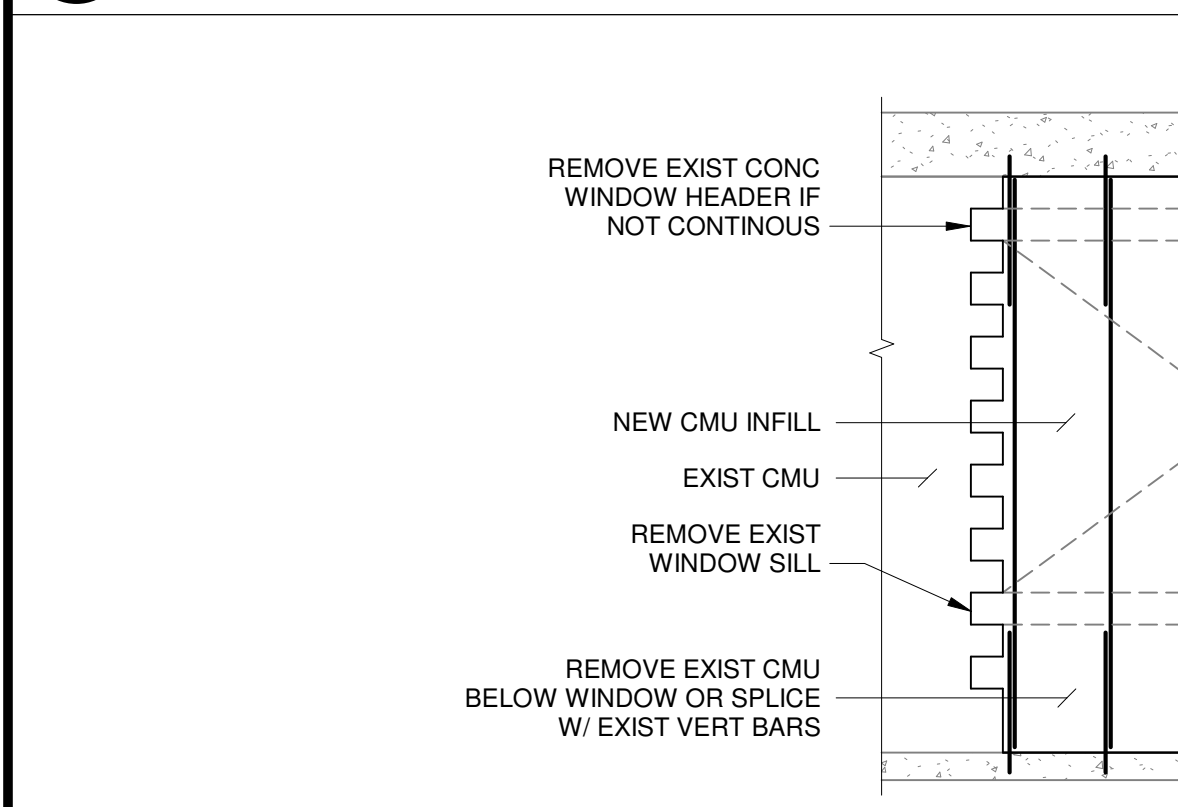
CMU BAR PLACEMENT REQUIREMENTS

STEP IN BOND BEAM IN CMU WALL

REINFORCING AT CMU WALL CORNERS, INTERSECTIONS AND OPENINGS

REINFORCING AT CMU WALL CORNERS, INTERSECTIONS AND OPENINGS

CMU WALL OPNG W/ BOND BEAM SILL



CMU INFILL AT EXIST WINDOW OPNG

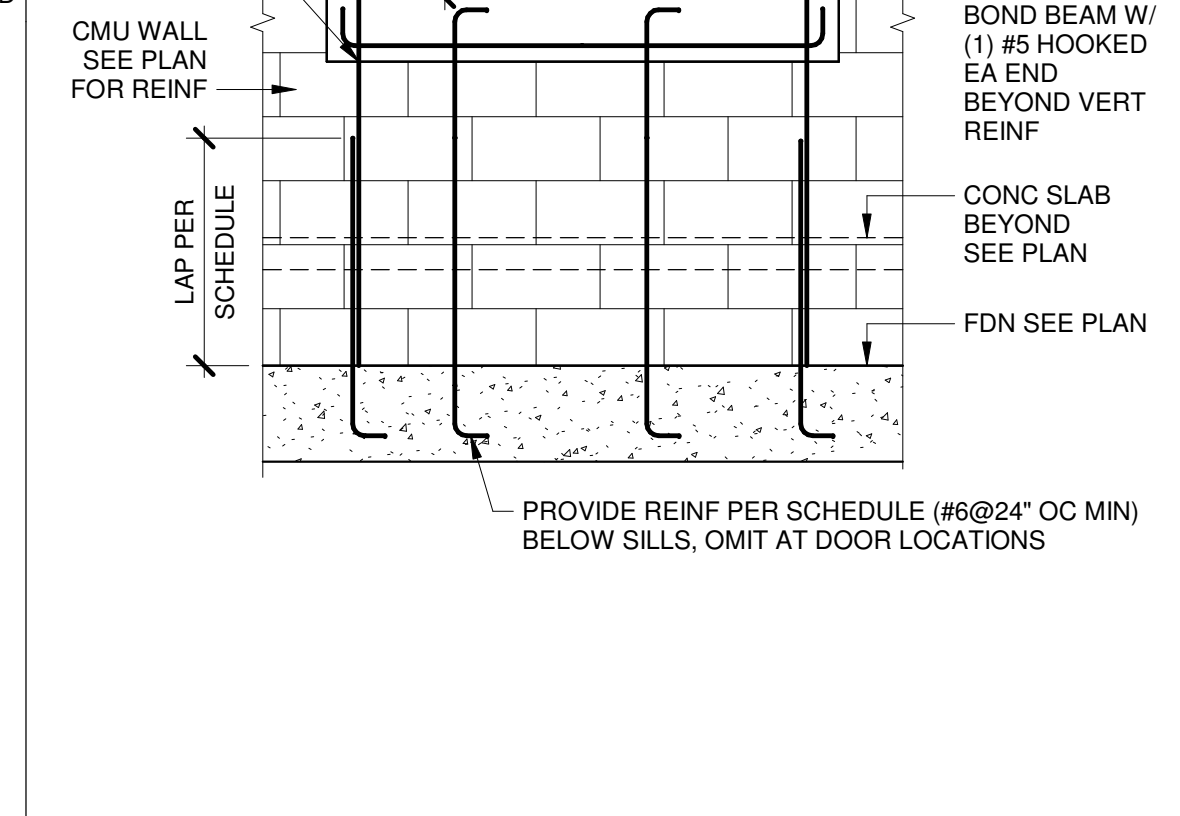
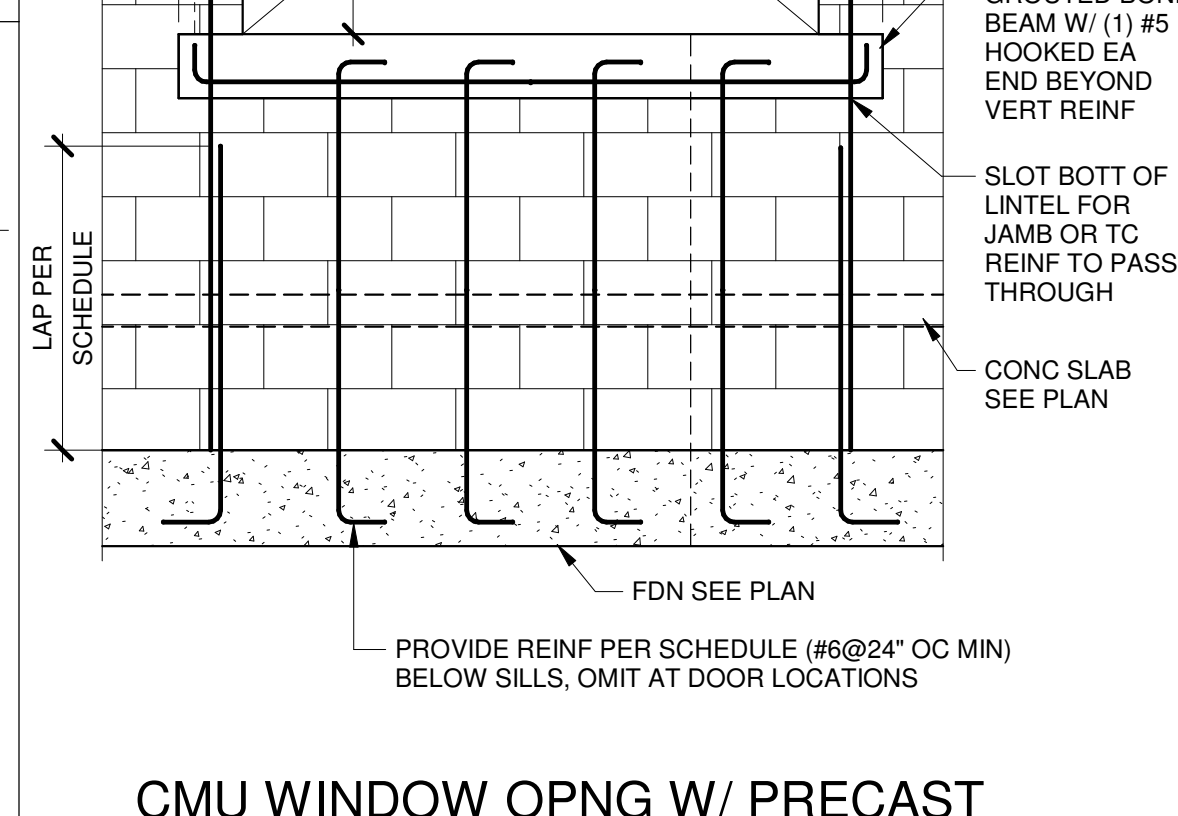
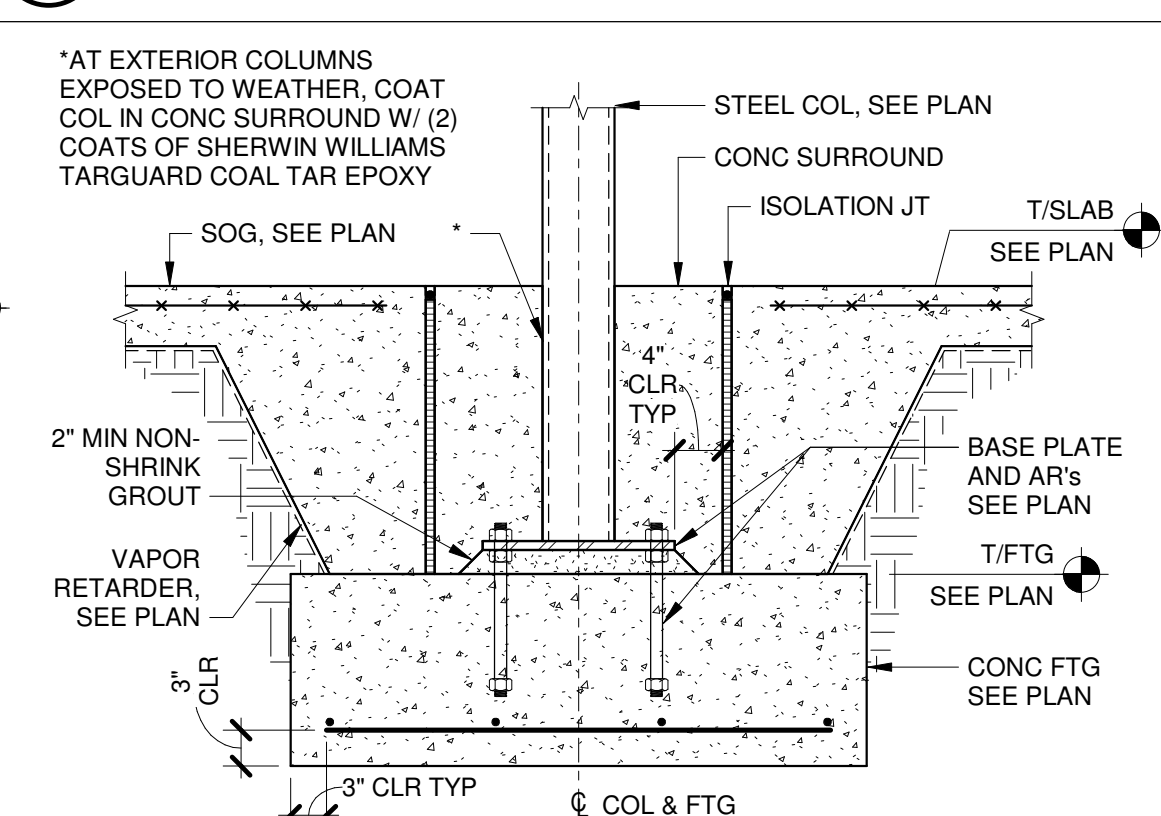
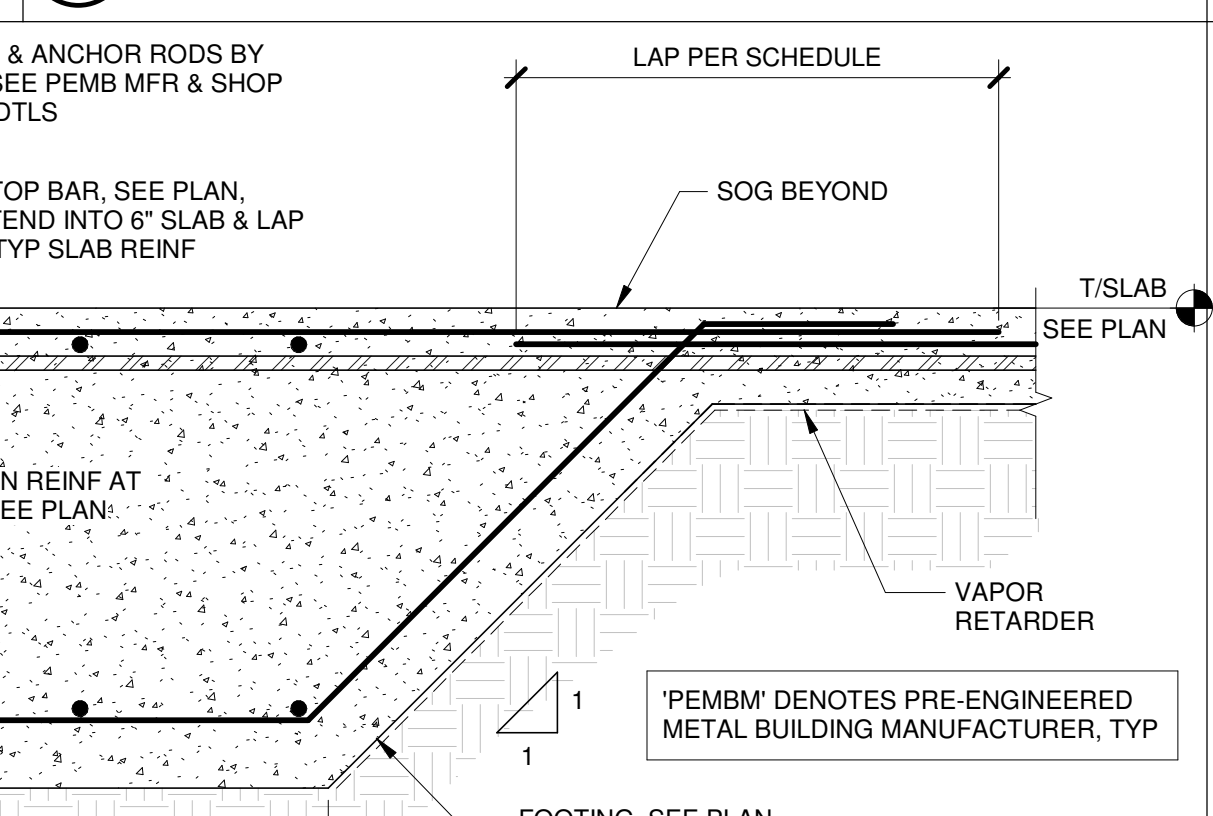
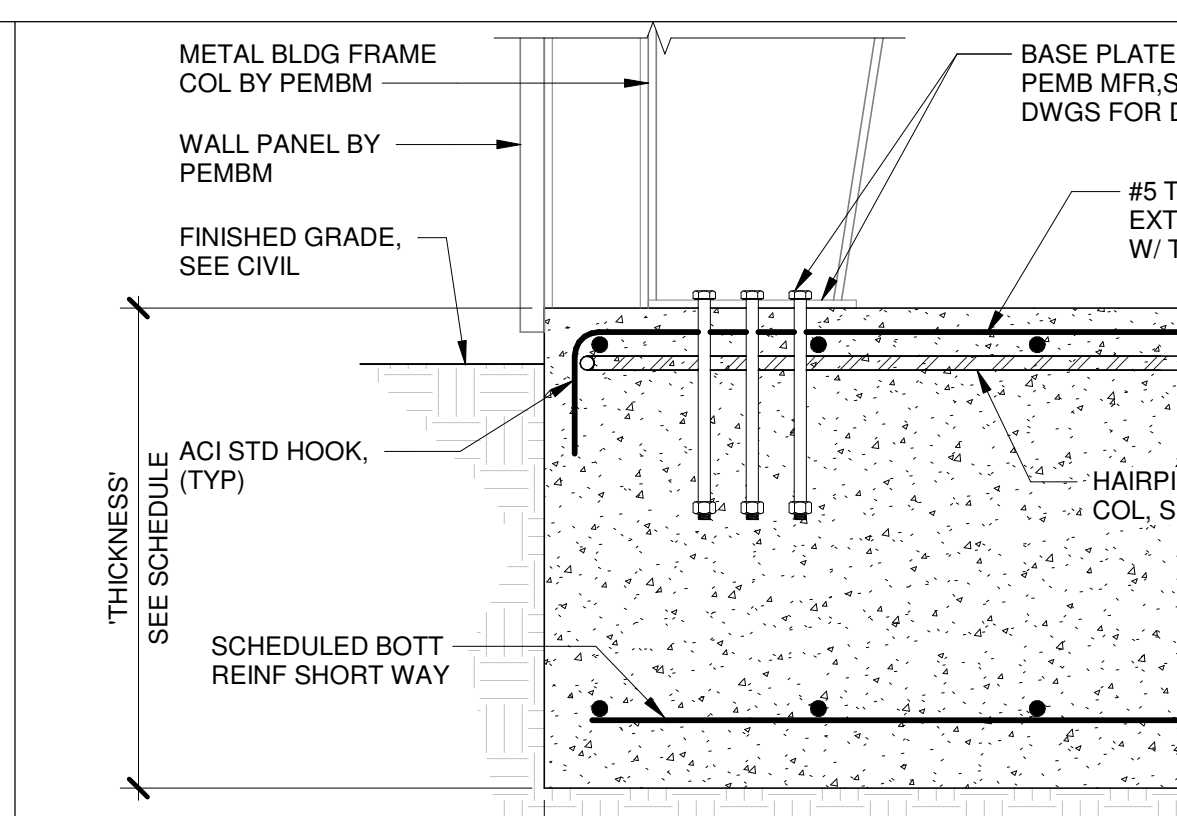
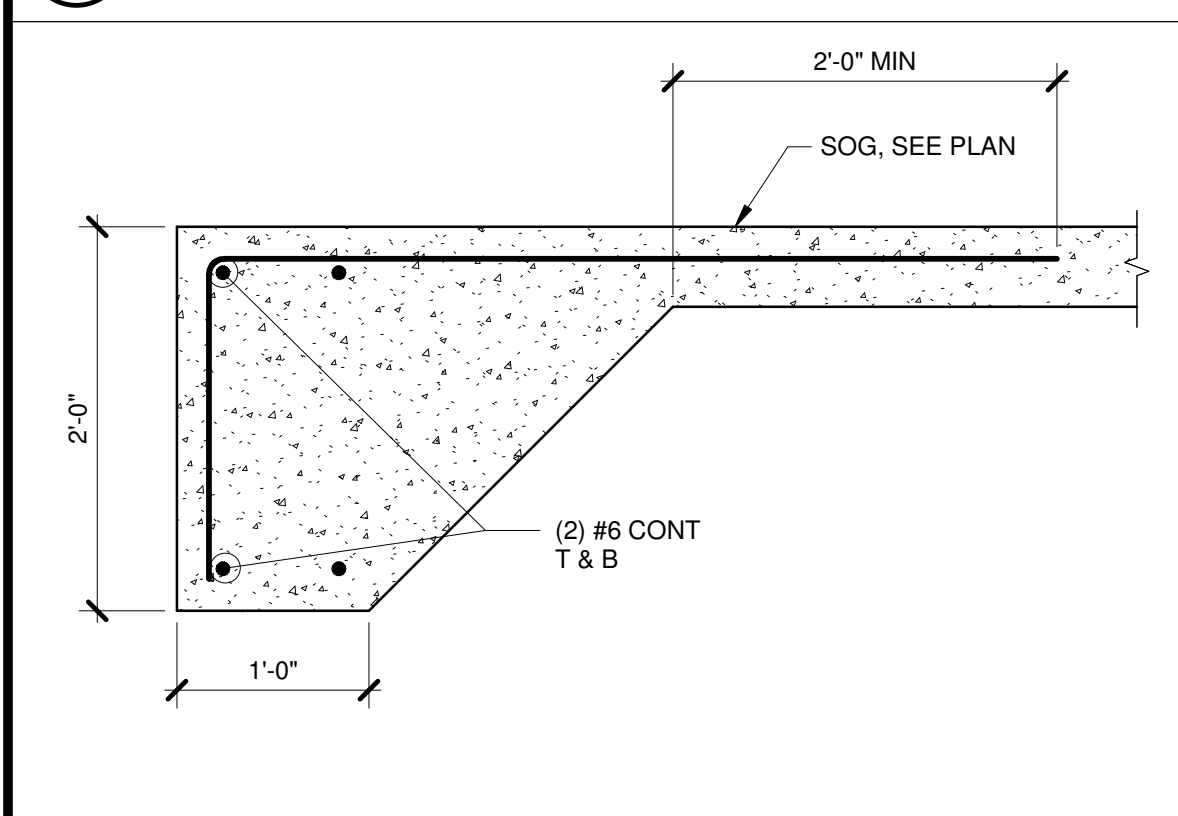
CMU ANCHORAGE TO CONCRETE WALL

CMU AT RAKED TIE BEAM

CMU AT RAKED TIE BEAM

CMU WINDOW OPNG W/ PRECAST LINTEL & BOND BM SILL

CMU WALL OPNG AT CONC TIE BEAM



SECTION

SECTION

SECTION

SECTION

SECTION

SECTION

CODE REVIEW:

CERTIFICATE:

CONSULTANTS:

BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT

9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW:

REVISIONS:

FOR BID:

DRAWING TITLE:

TYPICAL MASONRY DETAILS

COMMISSION NUMBER:

26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

S8.2

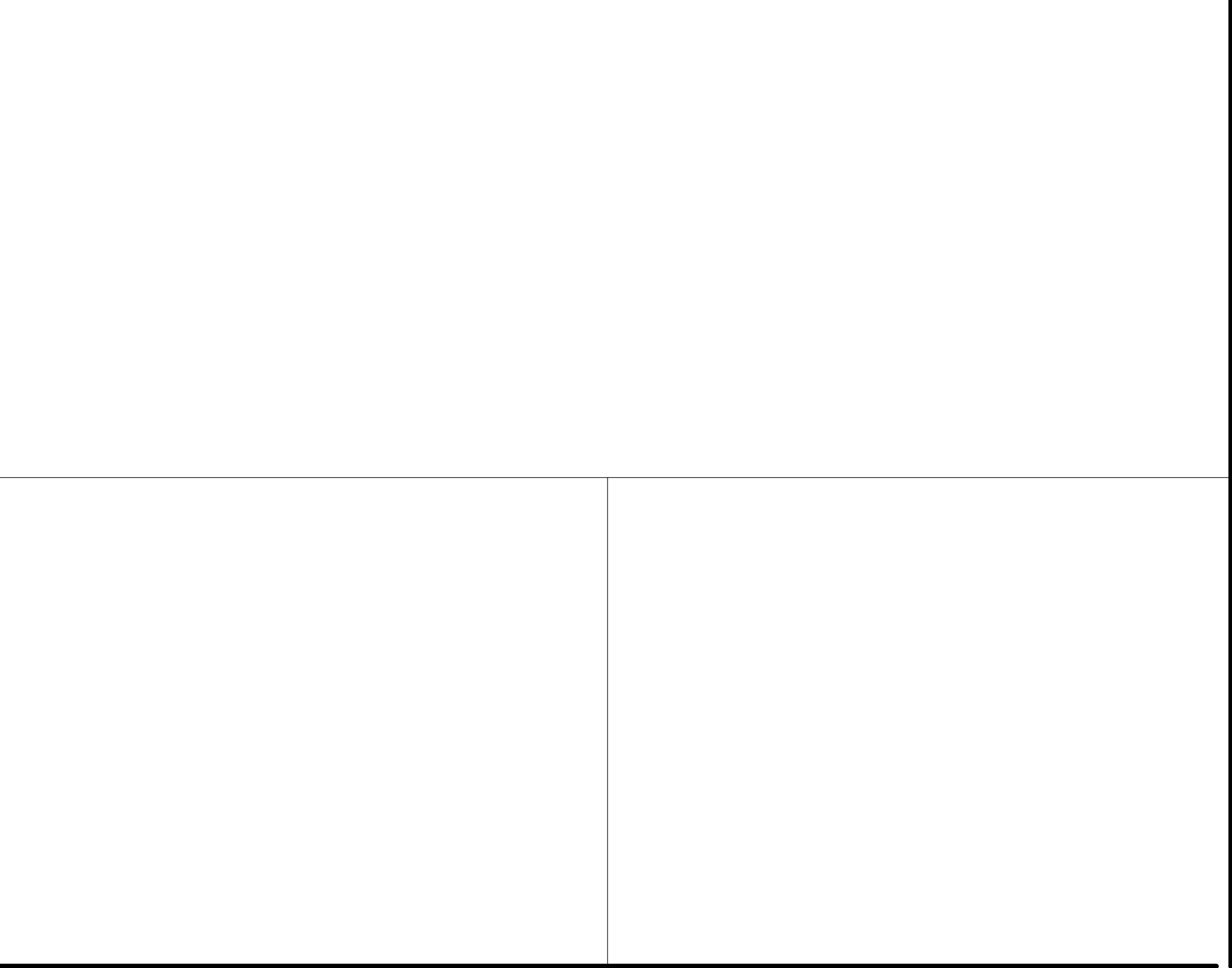
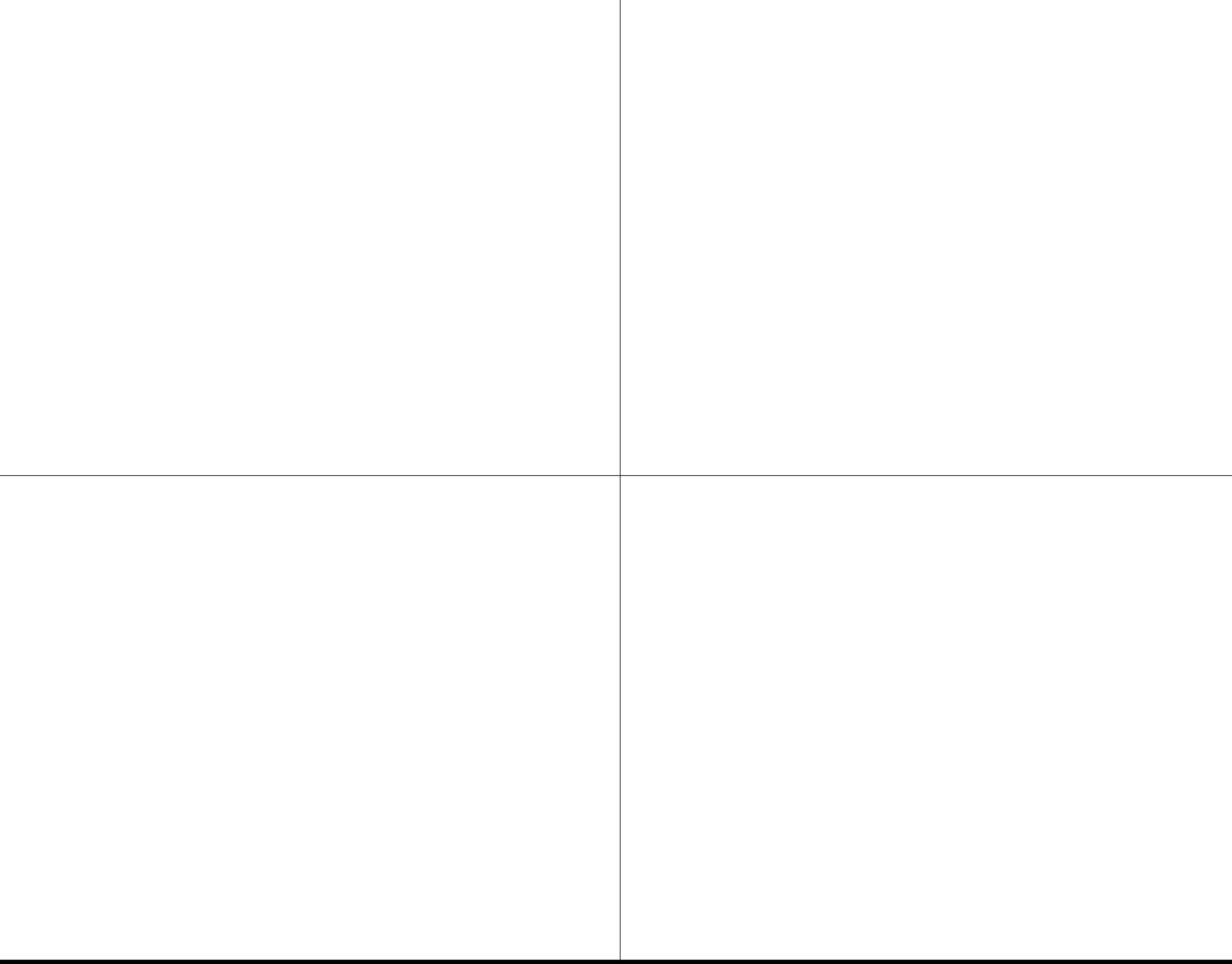
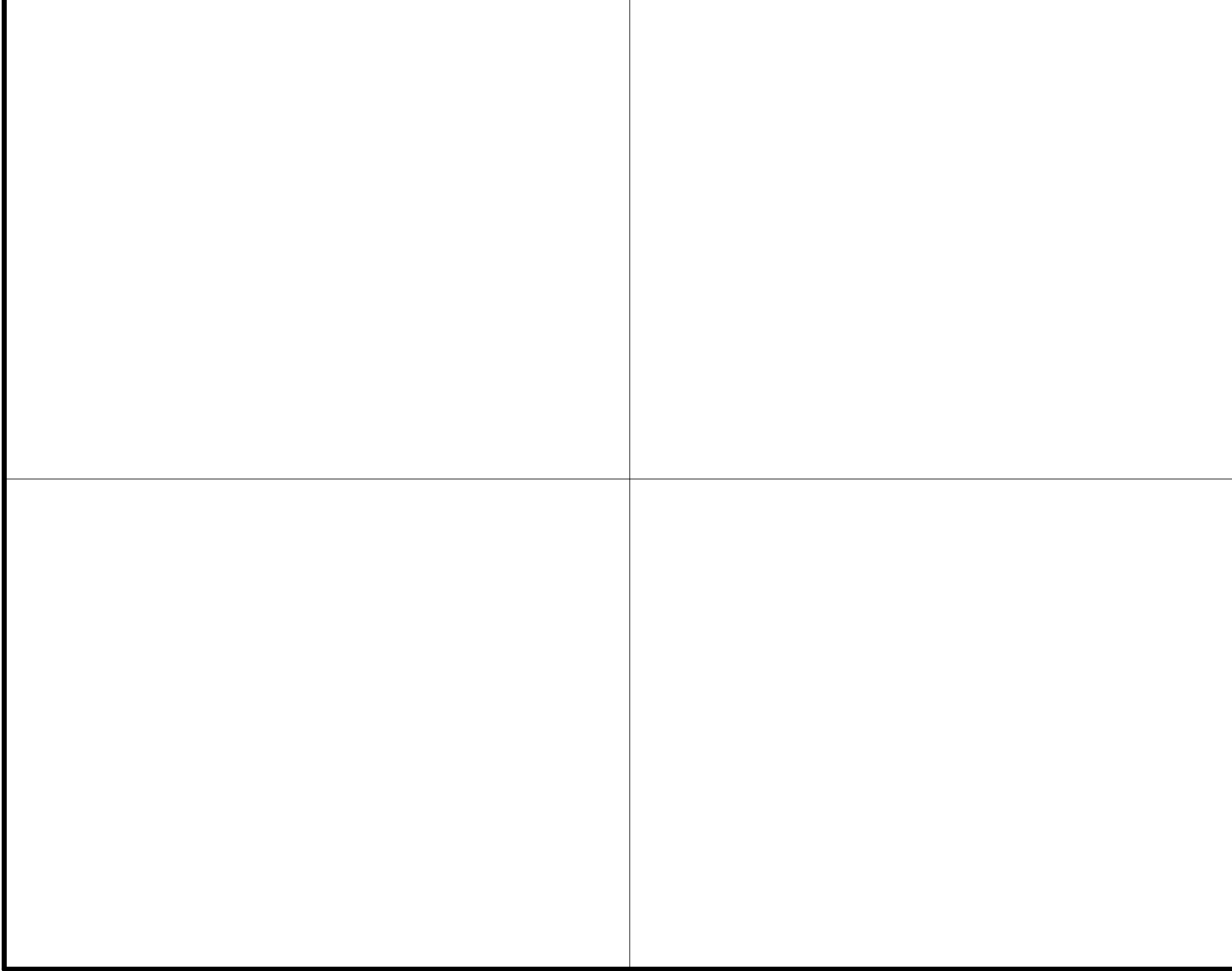
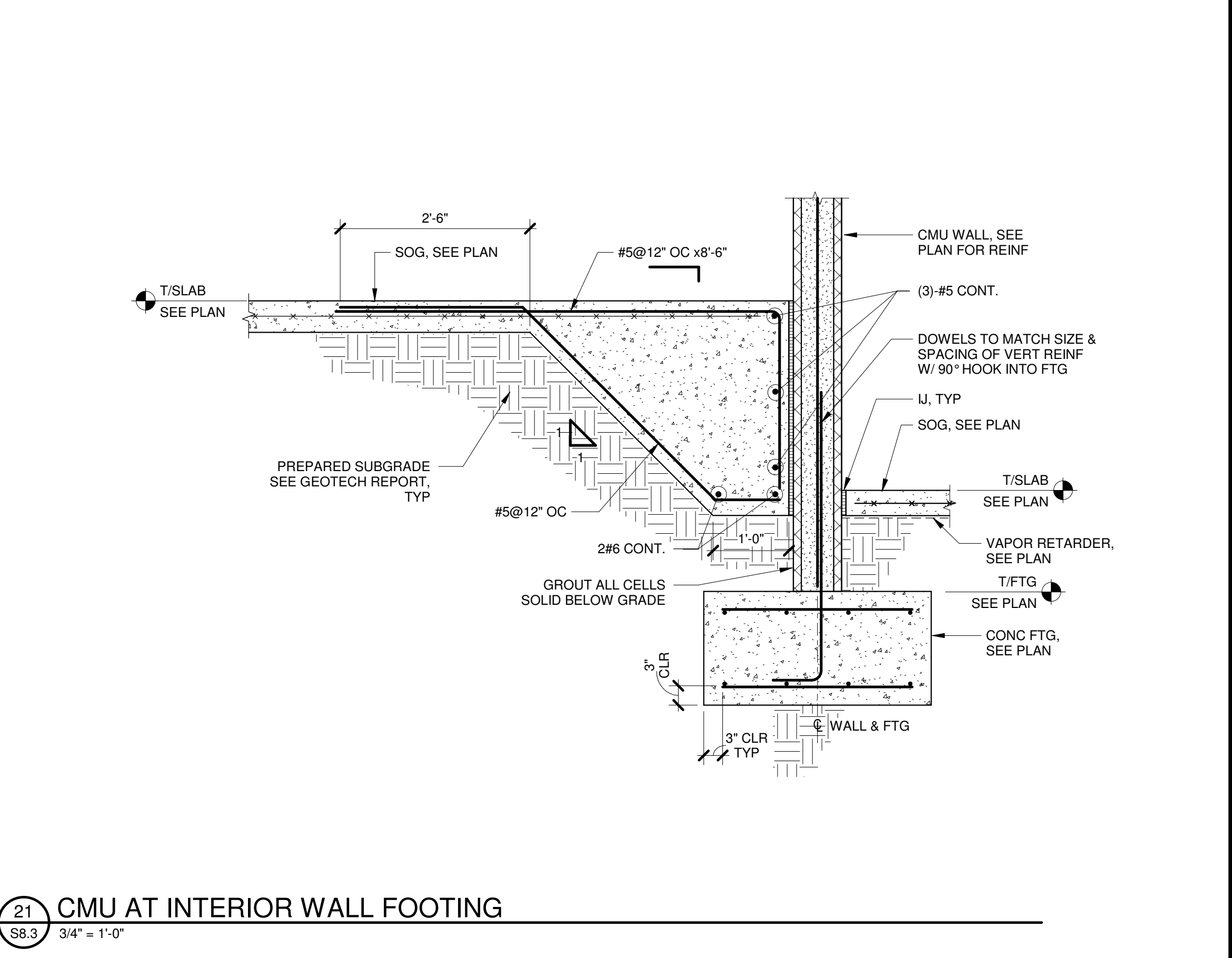
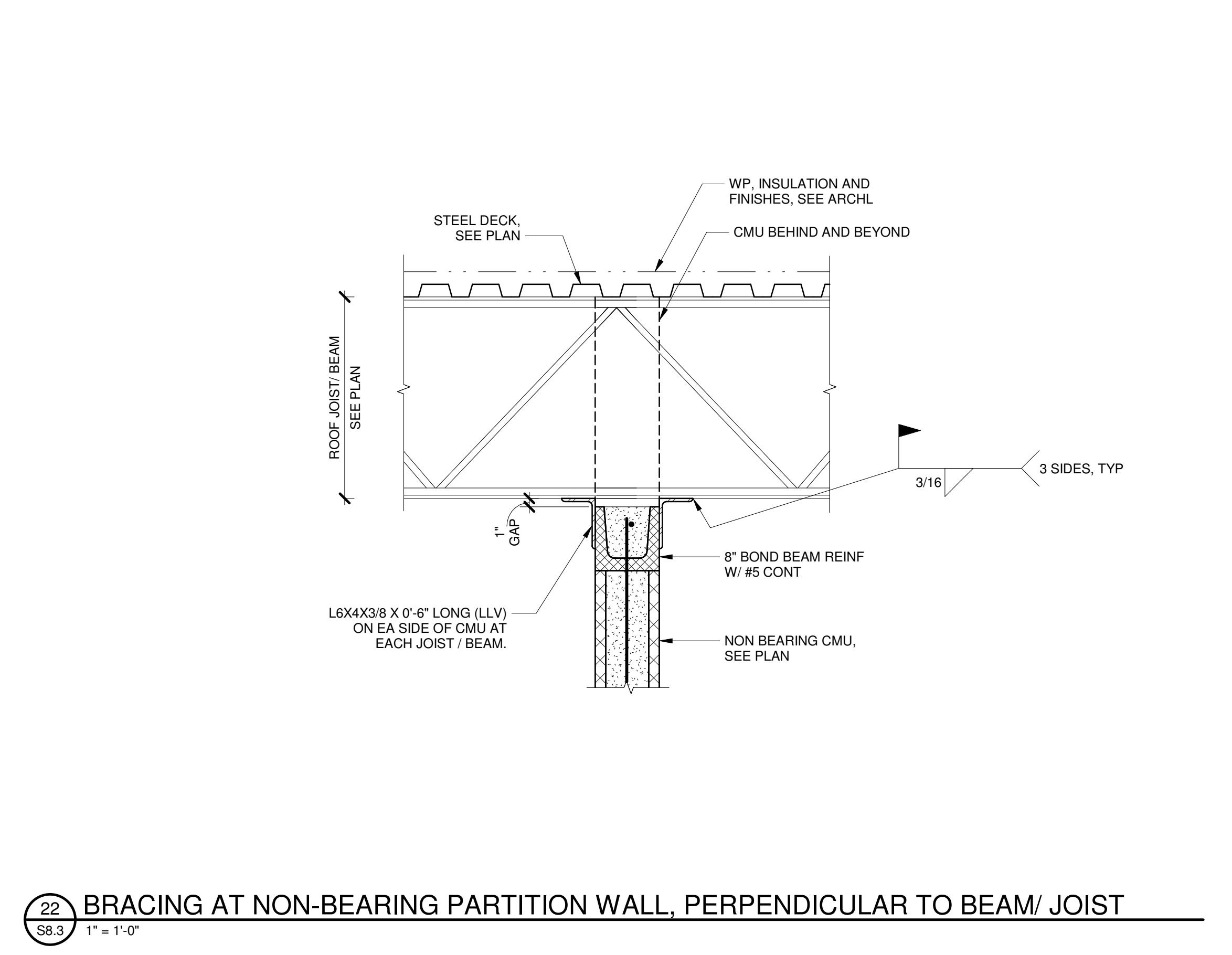
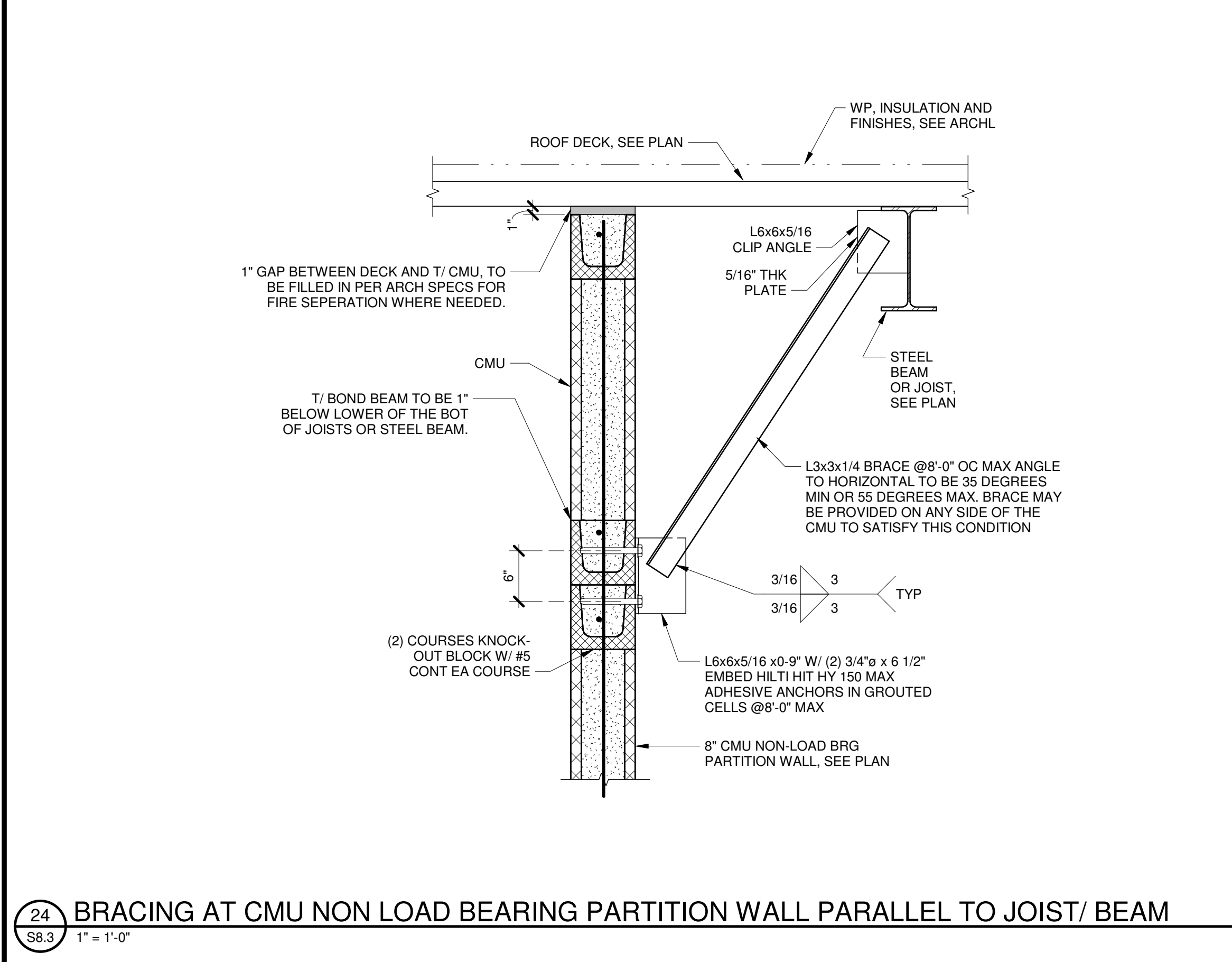
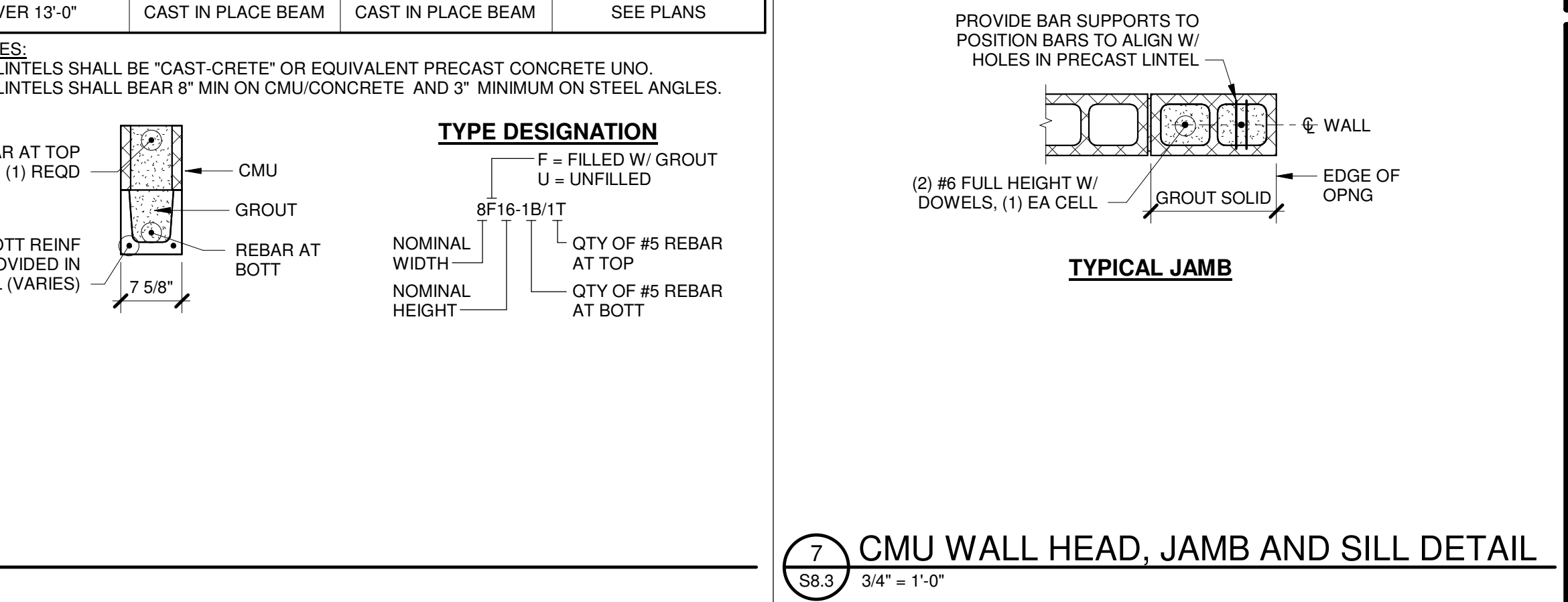
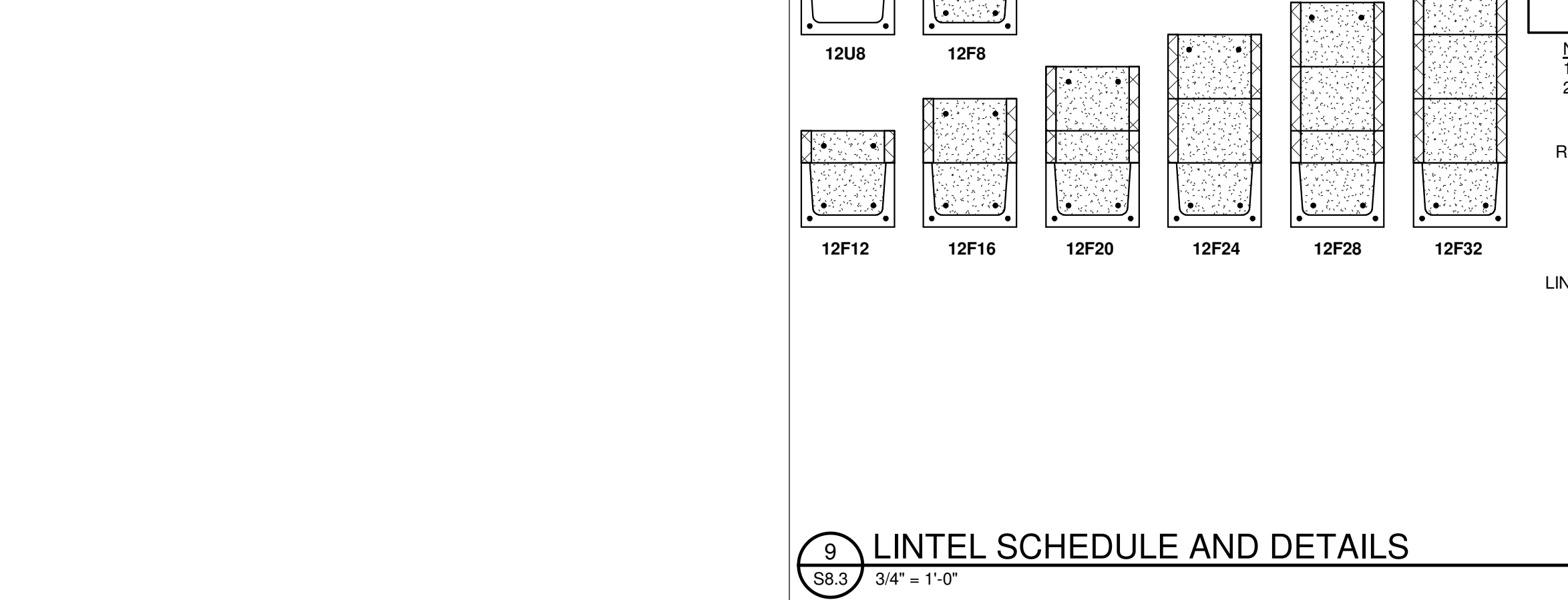
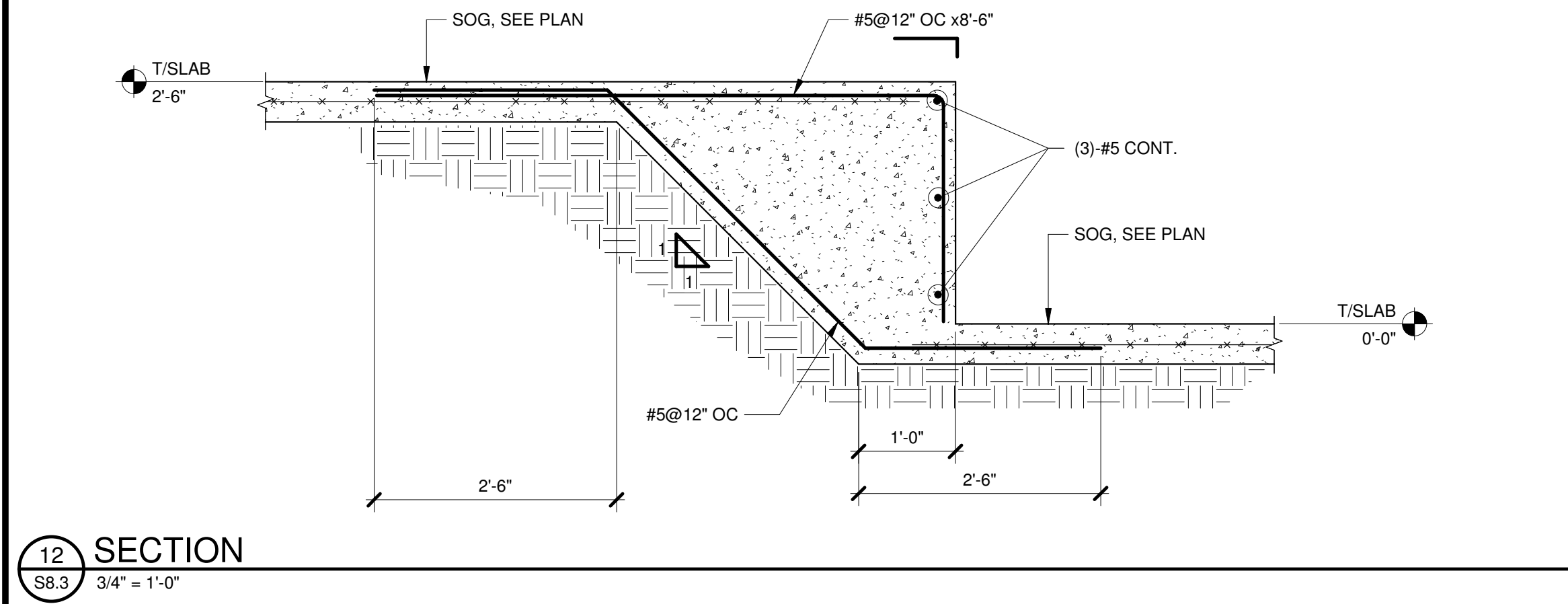
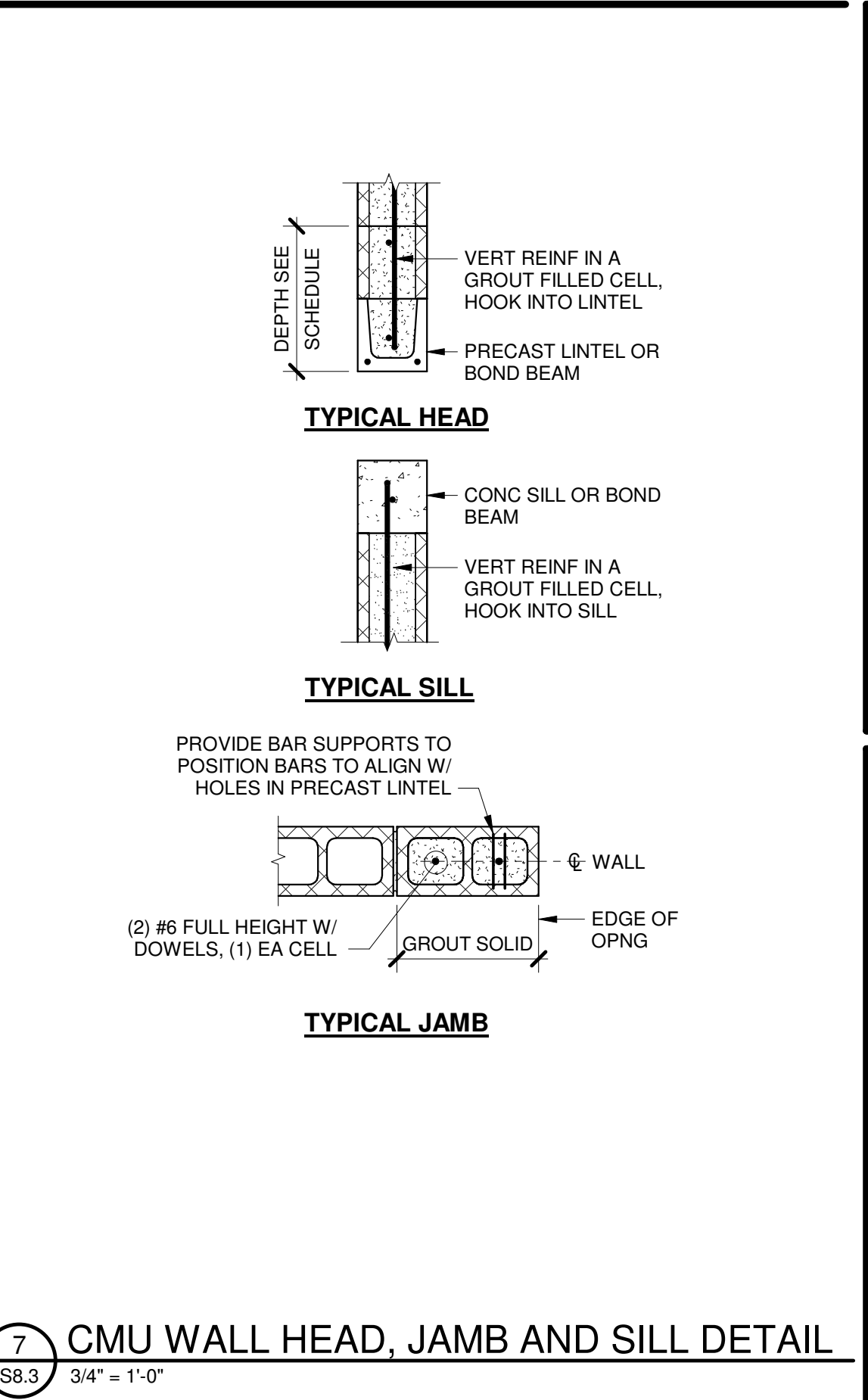
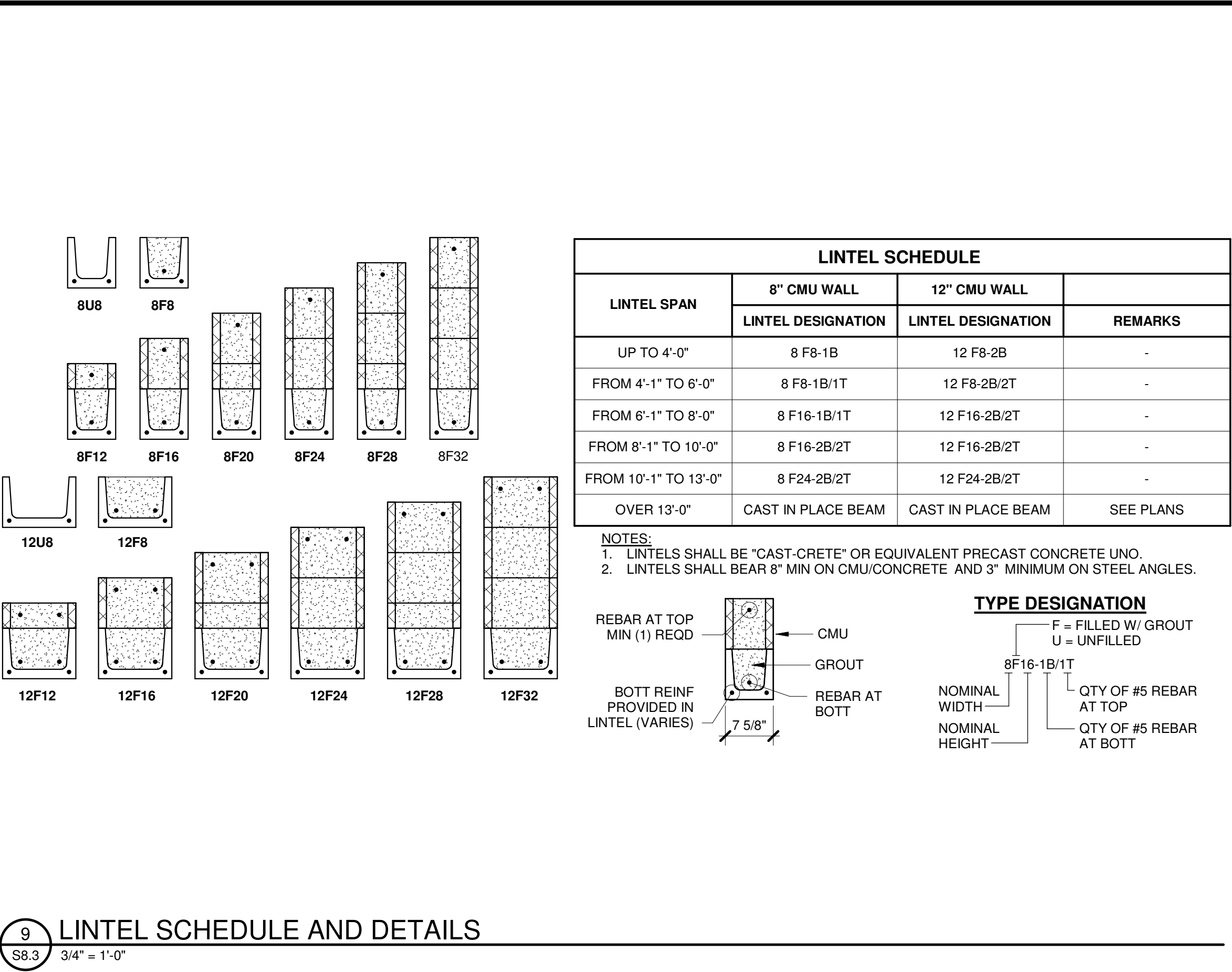
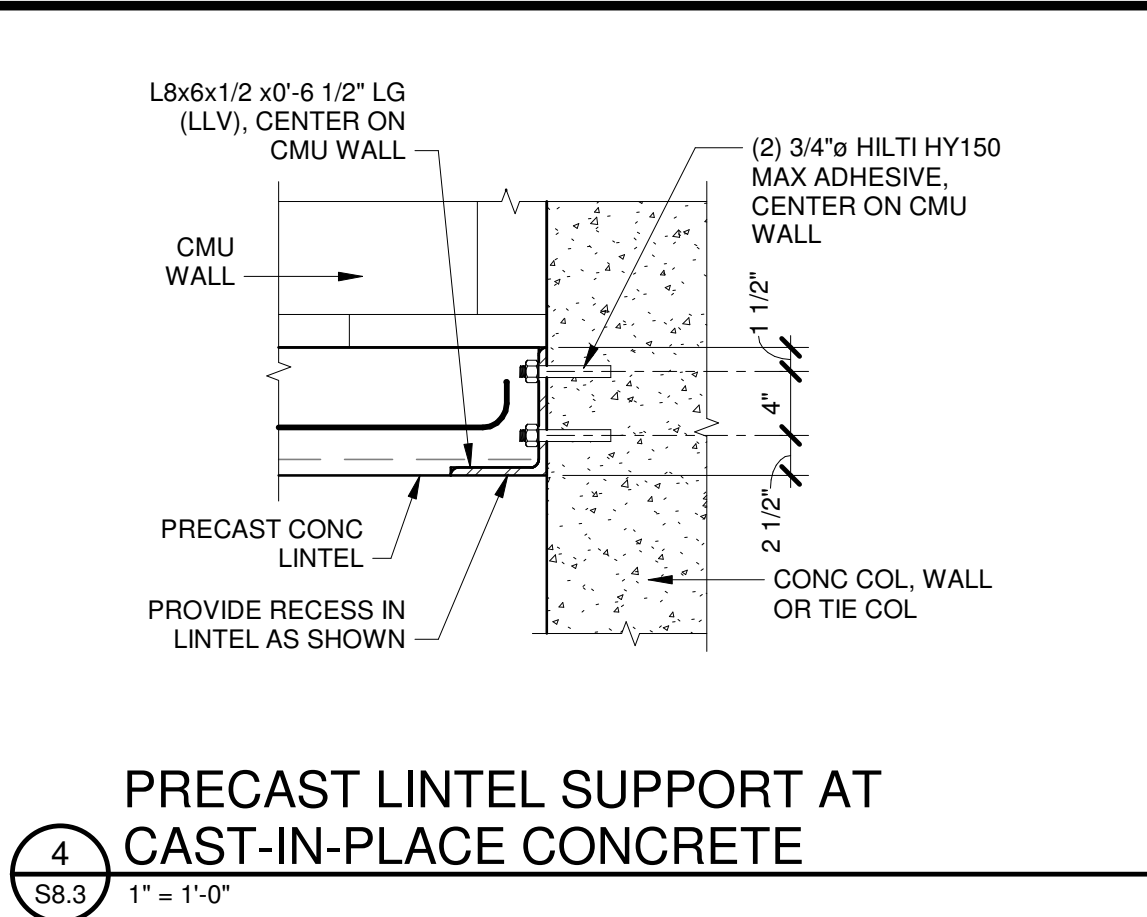
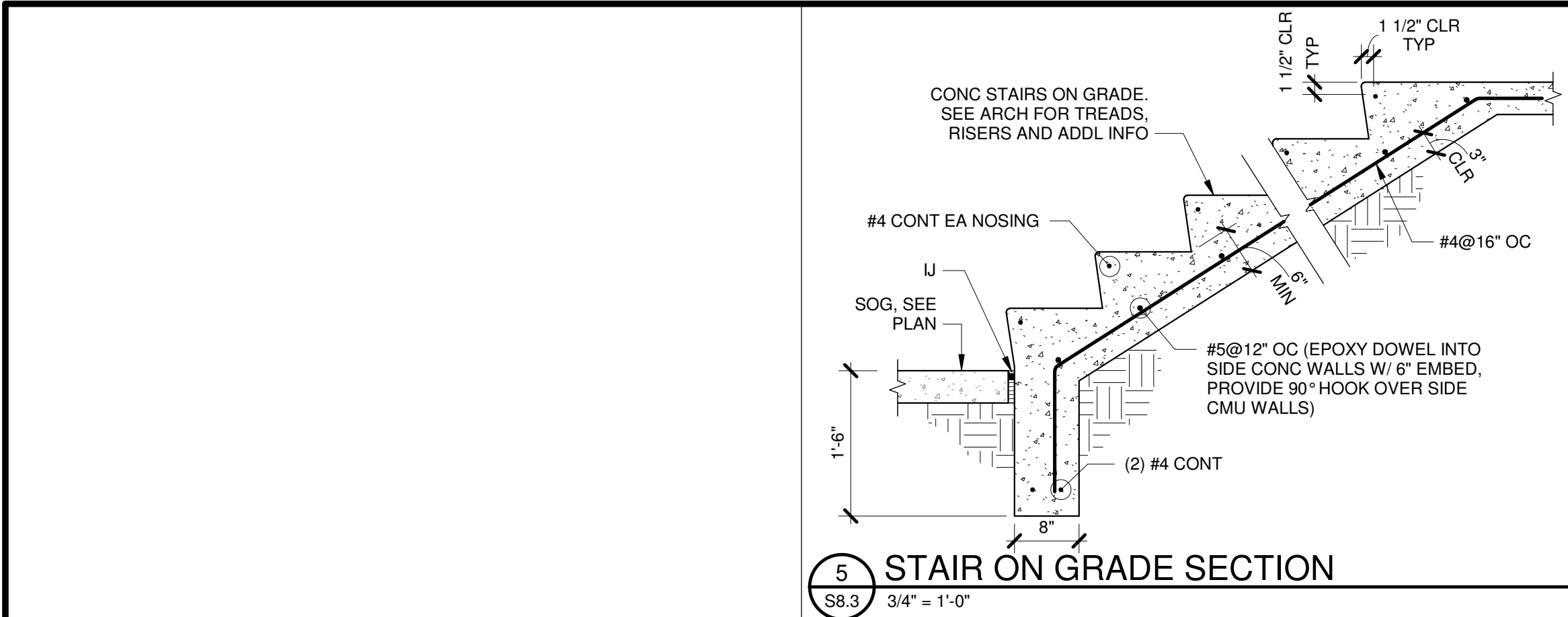
spieze

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1230 N. University Dr.
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08/26/2026

08/26/2026



CODE REVIEW:

CERTIFICATE:

spiezie

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SEAL & SIGNATURE:

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FAX: (954) 484-7834
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BID PACKAGE 3 - EARLY FOOTINGS AND CMU 6/30/2026

PROJECT:

ST. LUCIE GREEN ZONE K-8 SCHOOL

SOUTH 13TH STREET, FORT PIERCE, FL 34950

FOR

ST. LUCIE SCHOOL DISTRICT

9461 BRANDYWINE LANE, PORT ST. LUCIE, FL 34986

FOR CODE REVIEW: 08/26/2026

REVISIONS:

REVISION NAME	DATE
4	

FOR BID: 08/26/2026

DRAWING TITLE:

TYPICAL CMU DETAILS

COMMISSION NUMBER:

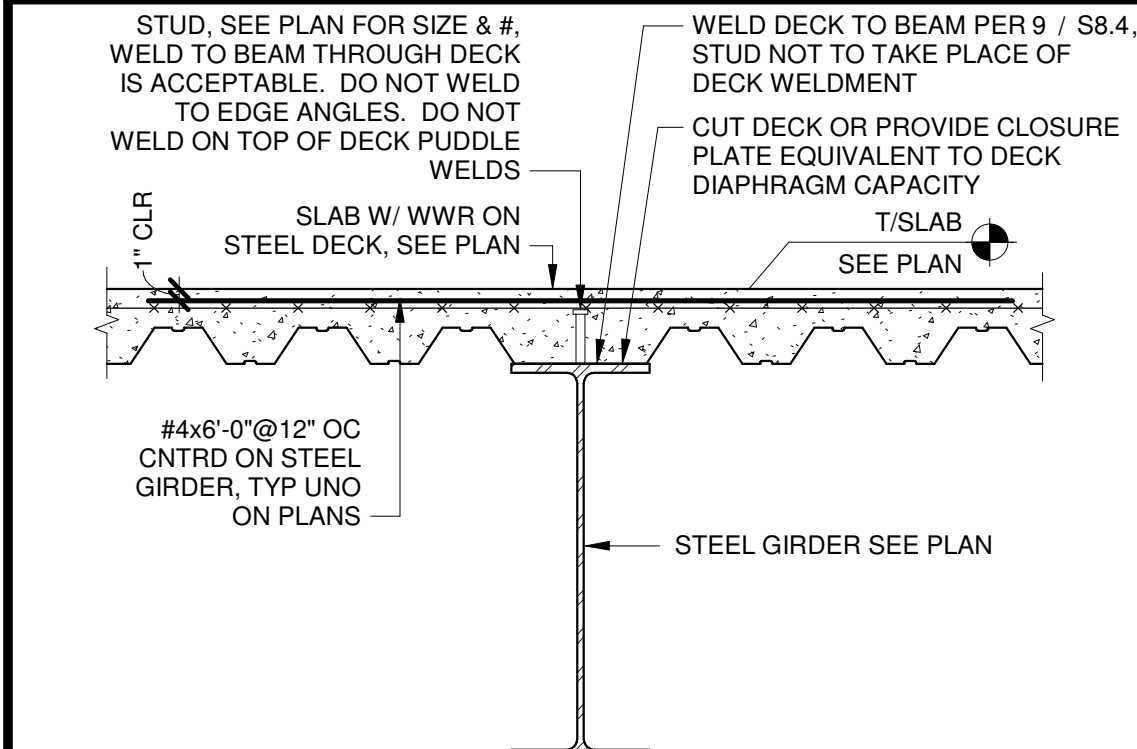
26K014

DO NOT SCALE THE DRAWINGS

DRAWING NUMBER:

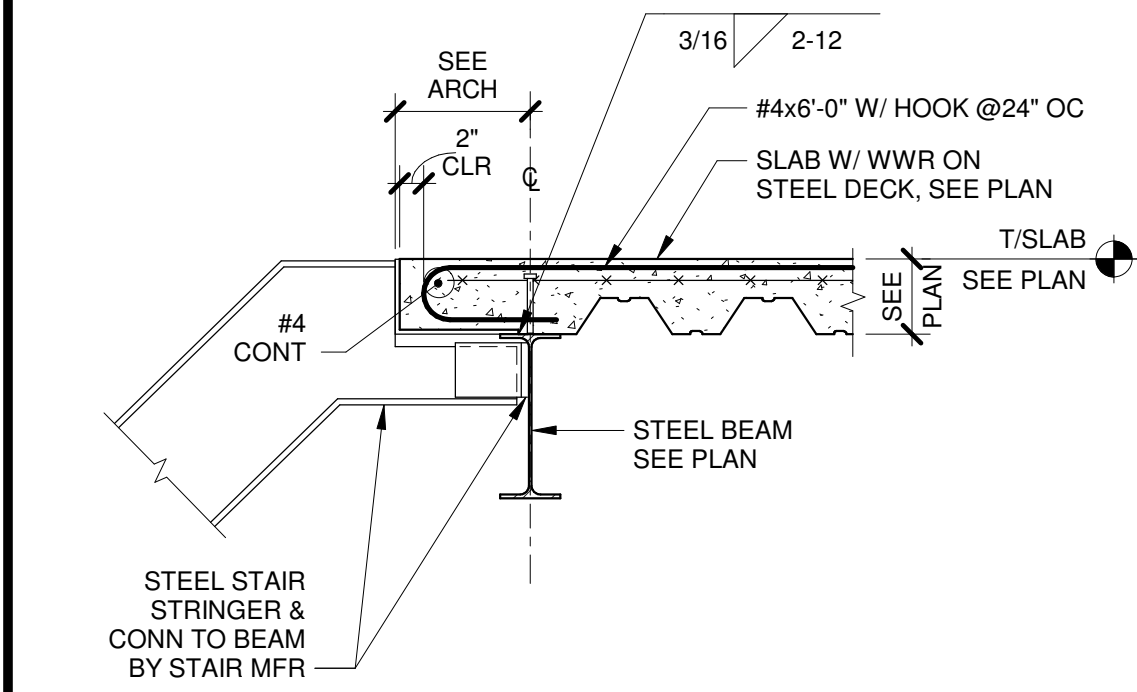
S8.3

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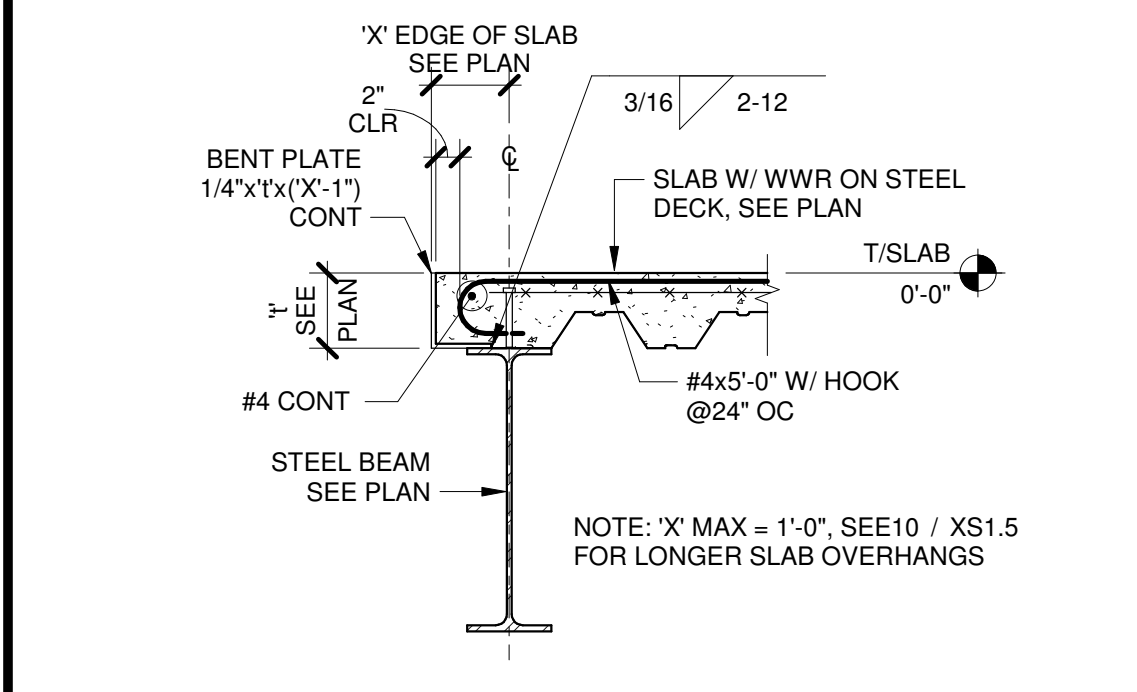
COMPOSITE DECK AT GIRDER CONNECTION

6 S8.4 3/4" = 1'-0"



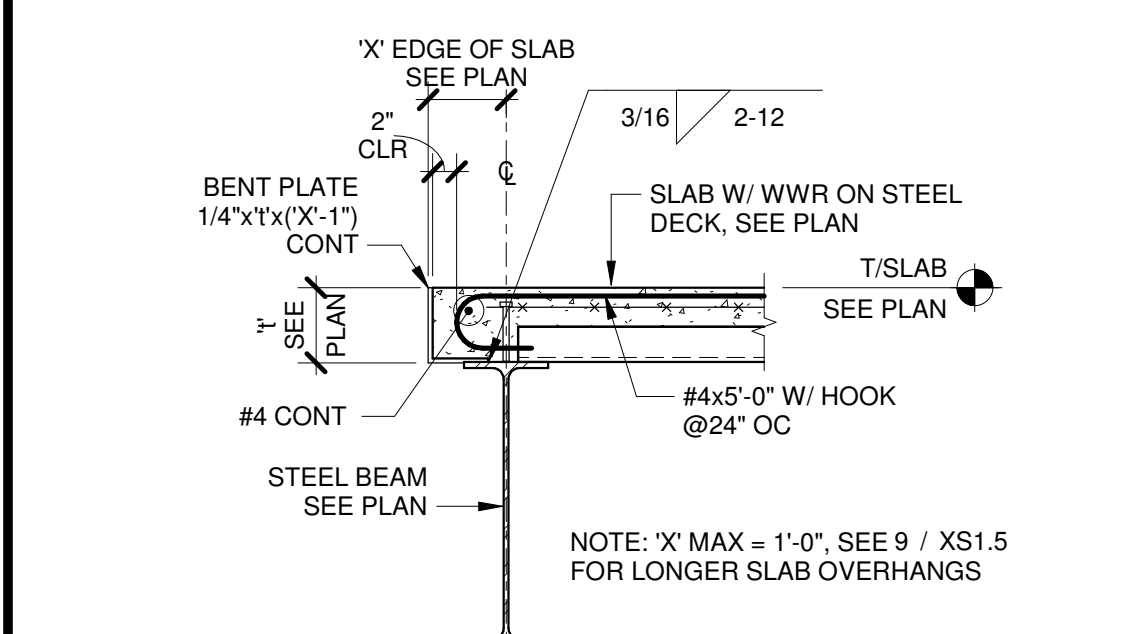
STEEL STAIR CONNECTION

12 S8.4 3/4" = 1'-0"



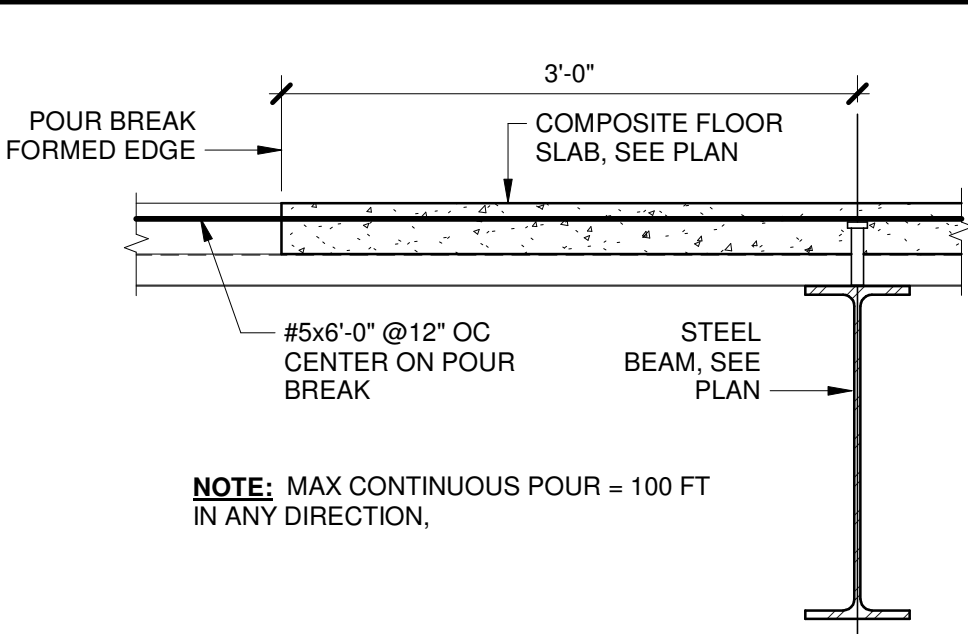
DECK EDGE DETAIL - DECK PARALLEL

18 S8.4 3/4" = 1'-0"



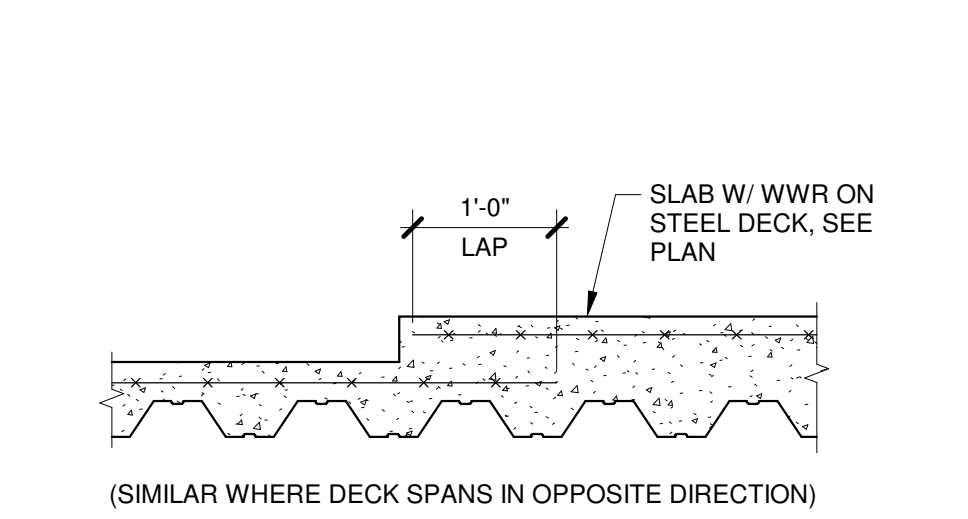
DECK EDGE DETAIL - DECK PERPENDICULAR

24 S8.4 3/4" = 1'-0"



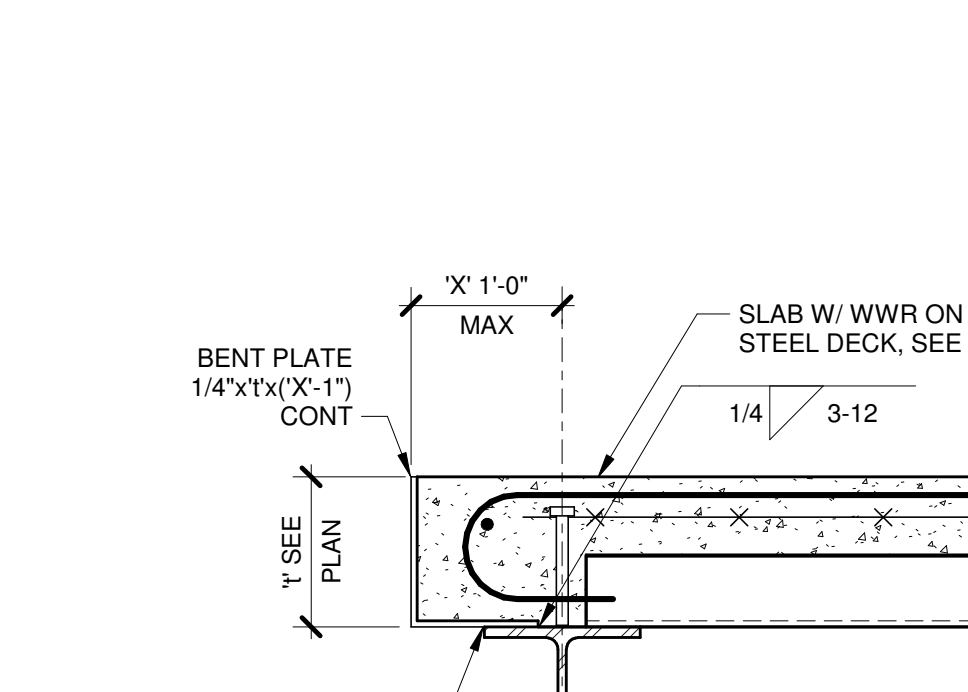
COMPOSITE FLOOR CONSTRUCTION JOINT

5 S8.4 1" = 1'-0"



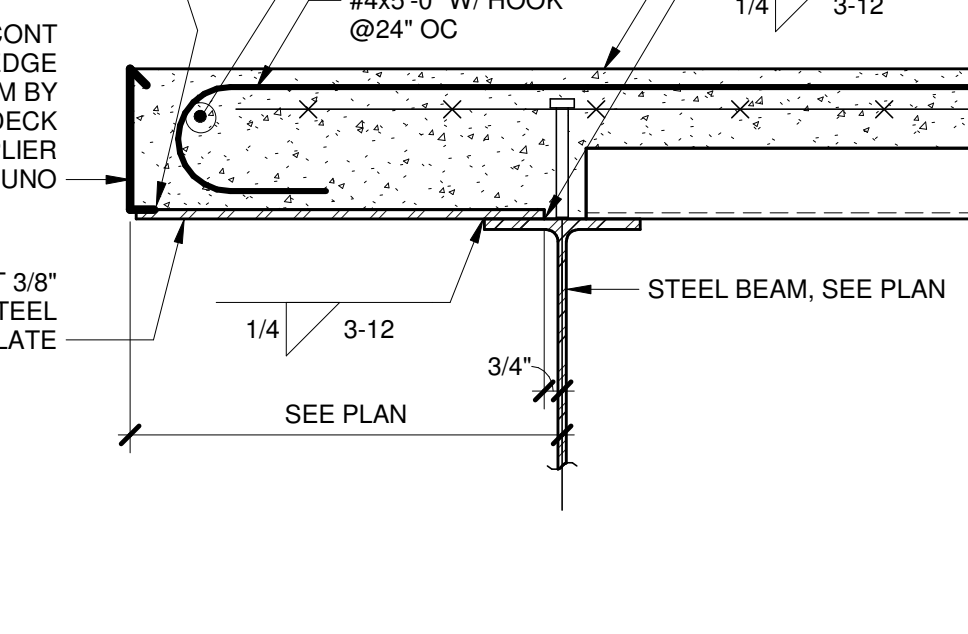
DEPRESSED SLAB AT STEEL DECK

11 S8.4 3/4" = 1'-0"



DECK EDGE DETAIL - DECK PARALLEL

18 S8.4 3/4" = 1'-0"



DECK EDGE DETAIL - DECK PERPENDICULAR

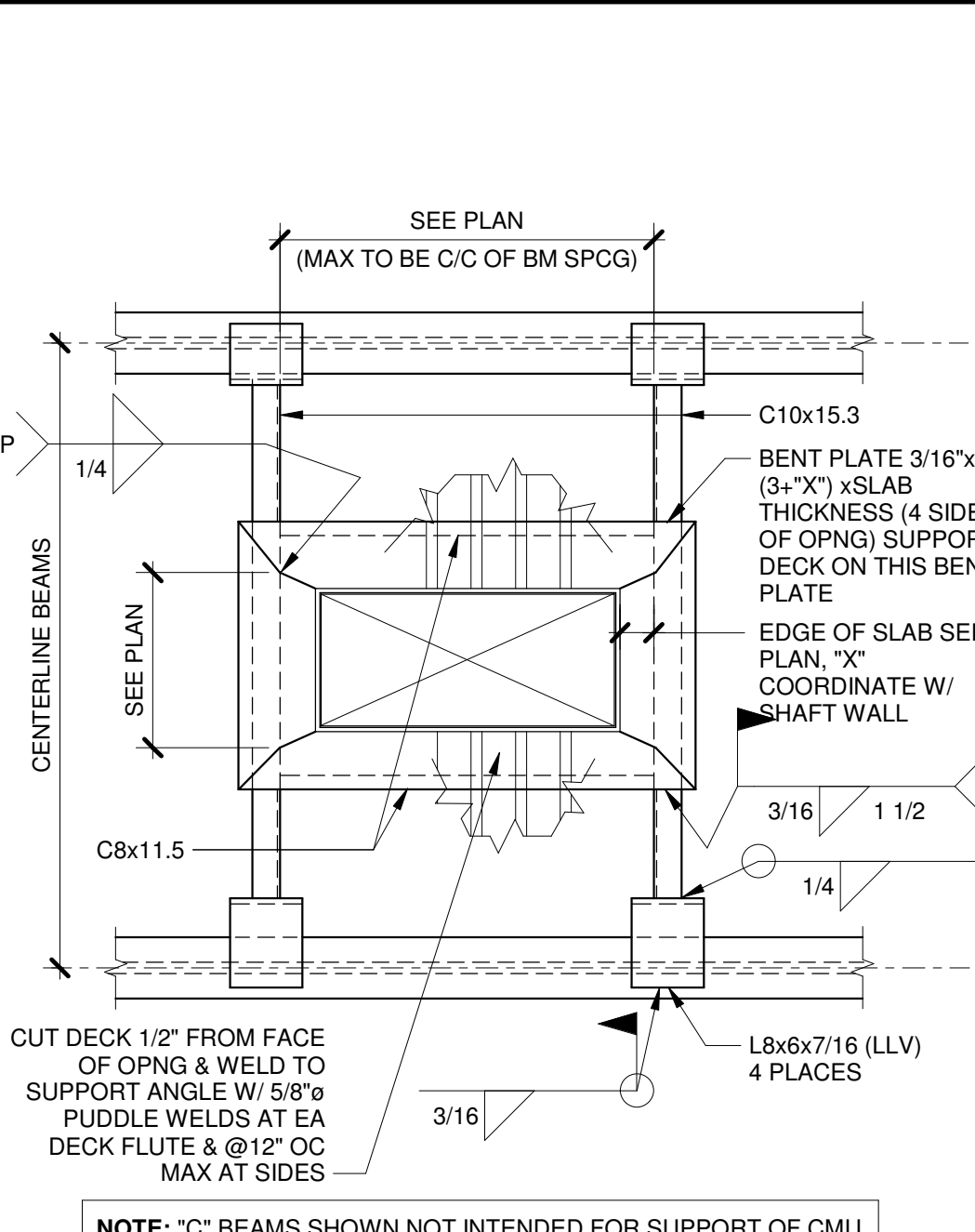
23 S8.4 1 1/2" = 1'-0"

VERTICAL REACTIONS FROM COOLING TOWERS, RTU				
	LATERAL WIND		UPLIFT	
	EQUIPMENT + CURB	WIND - X	WIND - Y	
P1	+535	-1445	+1285	-1230
P2	+380	+1445	+428	-610
P3	+535	-1445	-1285	-1230
P4	+380	+1445	-428	-610

NOTES:
1. ALL REACTION FORCES ARE IN LBS.
2. WIND REACTIONS ARE FOR ALLOWABLE STRESS DESIGN. USE APPROPRIATE LOAD FACTORS IN COMBINATIONS.
3. REACTIONS DUE TO LATERAL WIND ARE REVERSIBLE. DELEGATED ENGINEER FOR TRUSSES/JOISTS TO DESIGN FOR THE FORCE REVERSAL IN COMBINATION WITH ALL THE OTHER FORCES ACTING ON THE TRUSSES/JOISTS INCLUDING THE UPLIFT FORCES ABOVE.

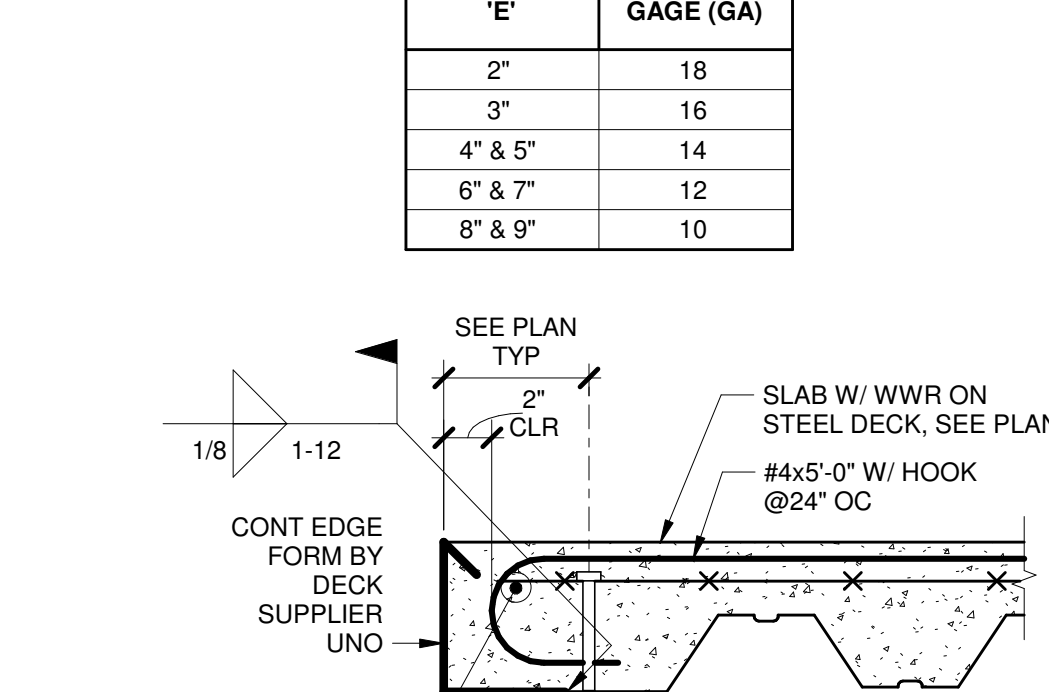
SCHEDULE

29 S8.4 1/8" = 1'-0"



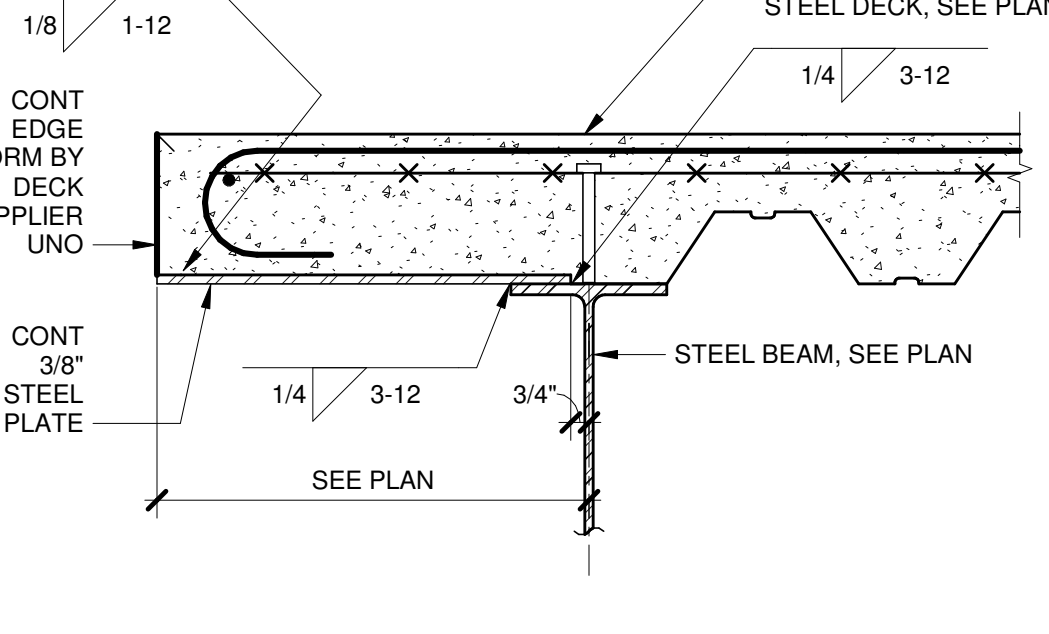
COMPOSITE SLAB OPENING DETAIL

10 S8.4 3/4" = 1'-0"



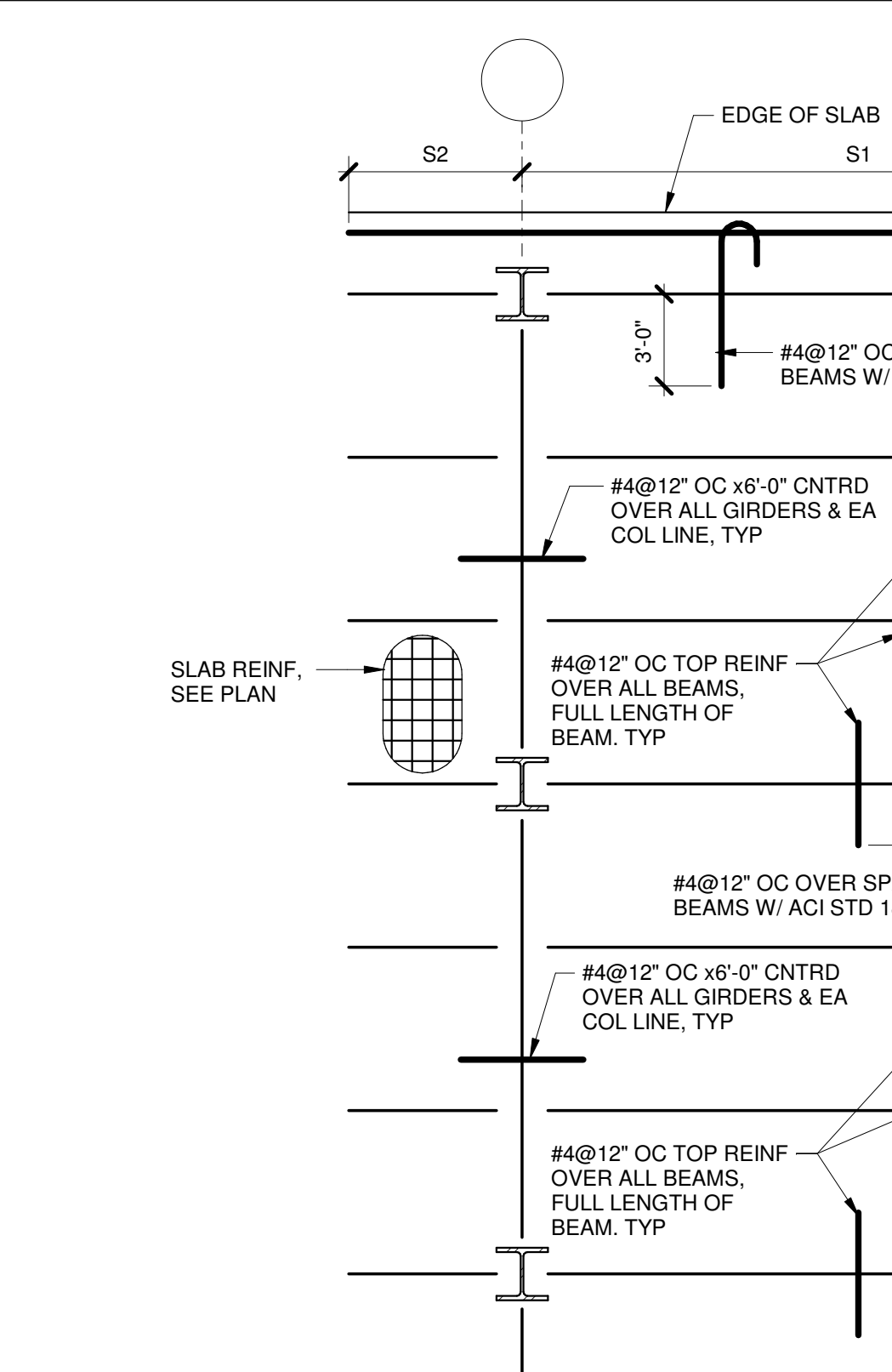
COMPOSITE SLAB / BEAM DETAIL

15 S8.4 3/4" = 1'-0"



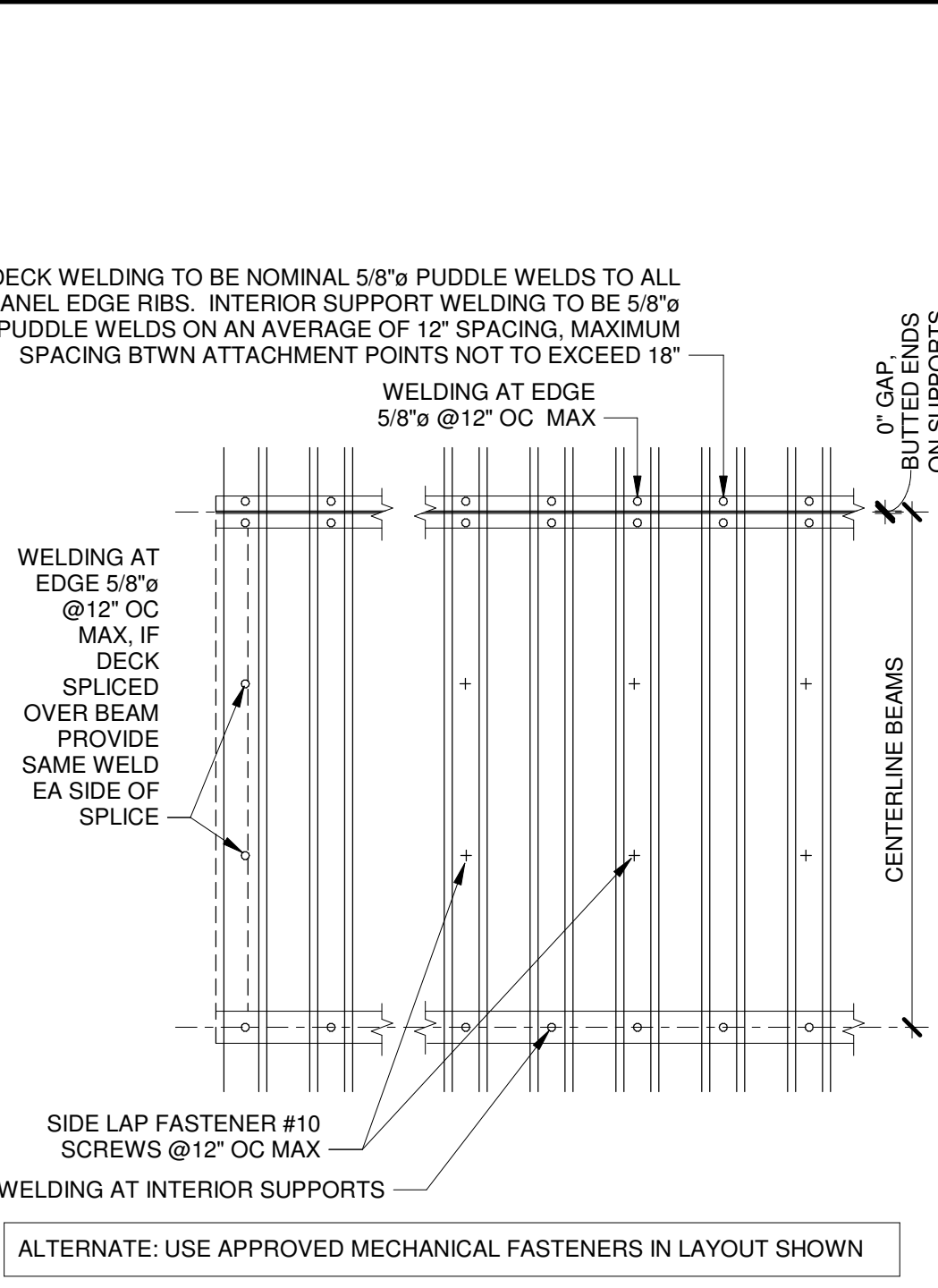
DECK EDGE DETAIL - DECK PARALLEL

22 S8.4 1 1/2" = 1'-0"



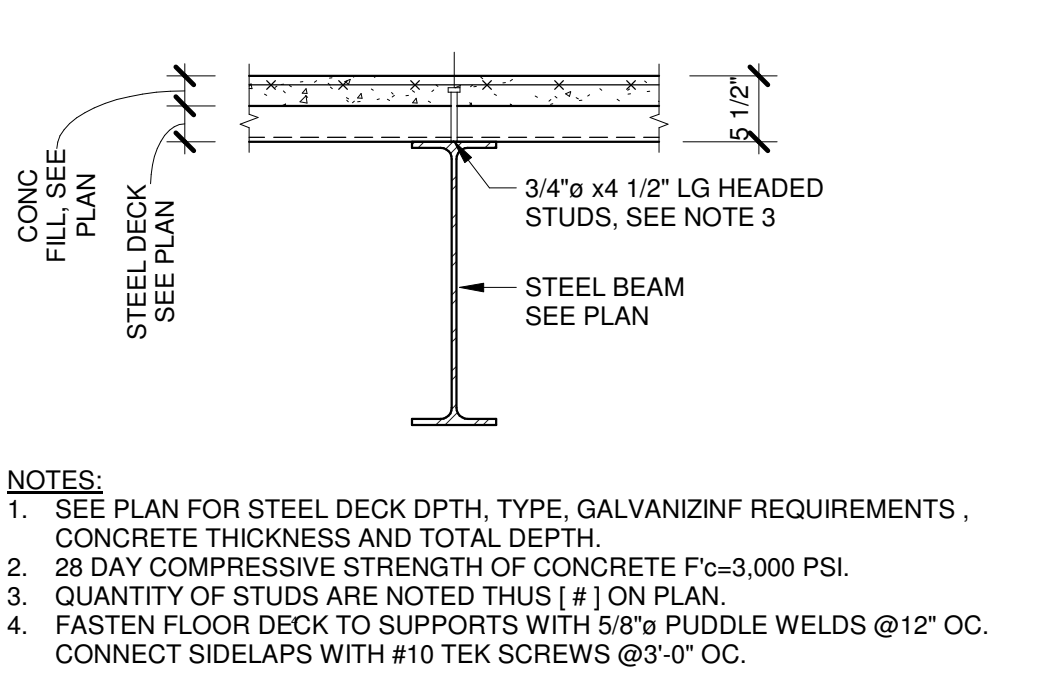
COMPOSITE SLAB REINFORCING AT COLUMN LINES AND EDGE OF SLAB

34 S8.4 3/4" = 1'-0"



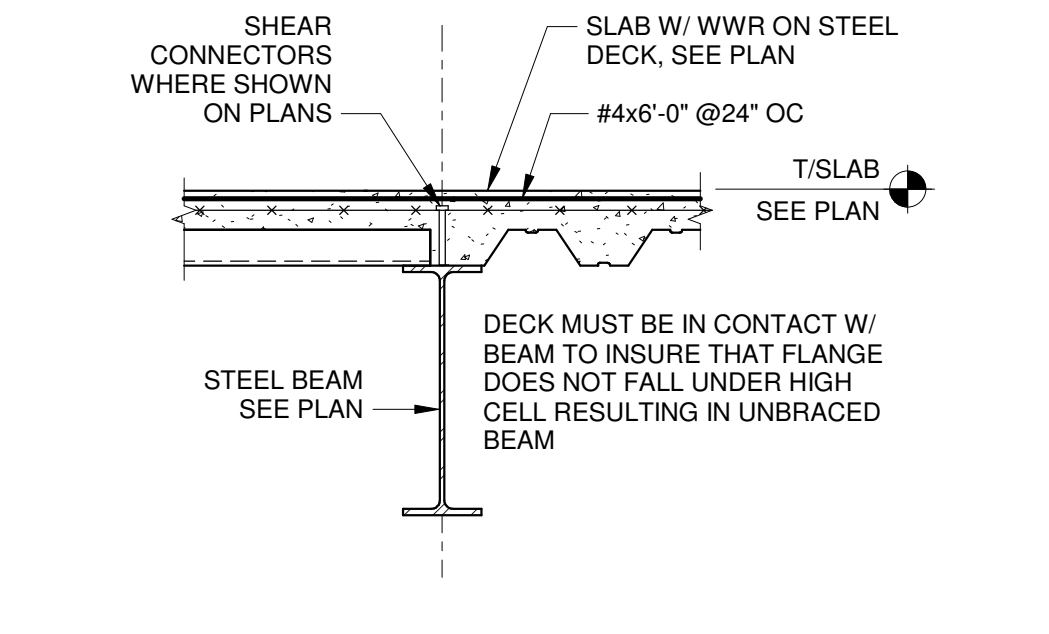
COMPOSITE FLOOR DECK FASTENING

9 S8.4 3/4" = 1'-0"



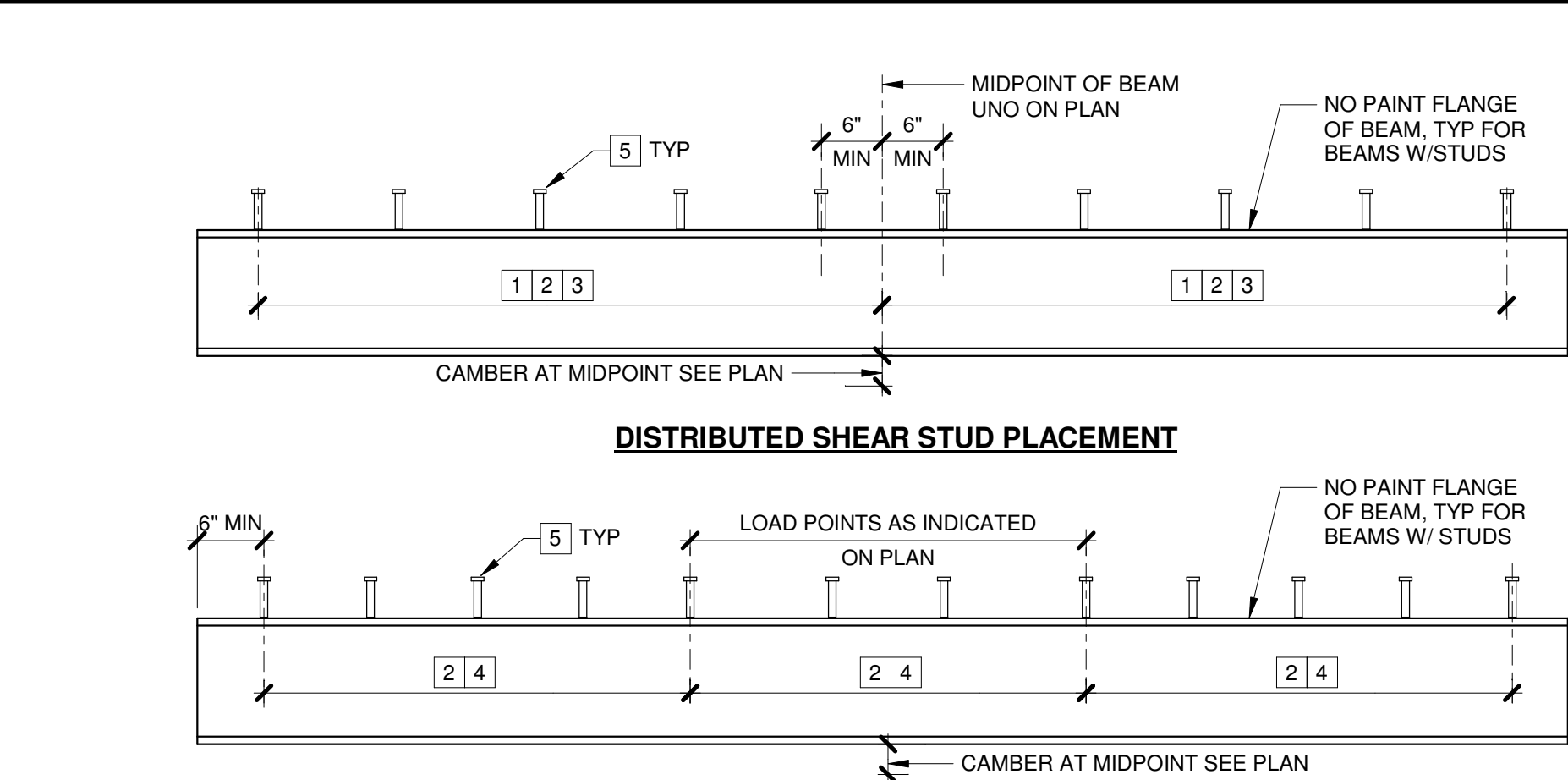
COMPOSITE SLAB / BEAM DETAIL

15 S8.4 3/4" = 1'-0"



DECK TRANSITION AT STEEL BEAM

21 S8.4 3/4" = 1'-0"



DISTRIBUTED SHEAR STUD PLACEMENT

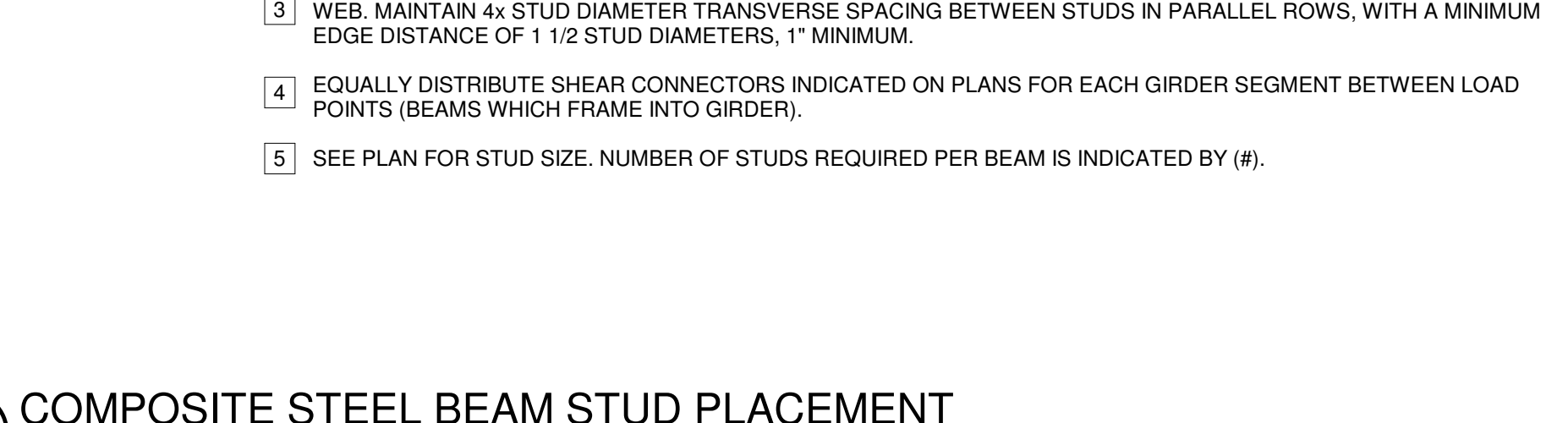
1 EQUALLY DISTRIBUTE ONE HALF OF SHEAR CONNECTORS INDICATED ON PLAN EACH SIDE OF BEAM MIDPOINT OR LOAD POINTS INDICATED ON PLANS, STARTING FROM EACH END OF SPAN. SEE PLAN FOR NUMBER OF STUDS.

2 SPACING OF SHEAR CONNECTORS SHALL NOT EXCEED 8 TIMES THE TOTAL SLAB THICKNESS AND NO GREATER THAN 36" OC. SPACING SHALL BE NO CLOSER THAN 6x STUD DIAMETER OR DISTANCE BETWEEN FLUTES FOR STEEL DECKS WHEN DECK FLUTE IS PERPENDICULAR TO BEAM. COORDINATE STUD LAYOUT WITH DECK SECTIONS USED.

3 DOUBLE OR TRIPLE STUDS IF REQUIRED. DOUBLE AND TRIPLE STUD PLACEMENT TO BE SYMMETRICAL ABOUT BEAM WEB. MAINTAIN 4x STUD DIAMETER TRANSVERSE SPACING BETWEEN STUDS IN PARALLEL ROWS, WITH A MINIMUM EDGE DISTANCE OF 1 1/2 STUD DIAMETERS, 1" MINIMUM.

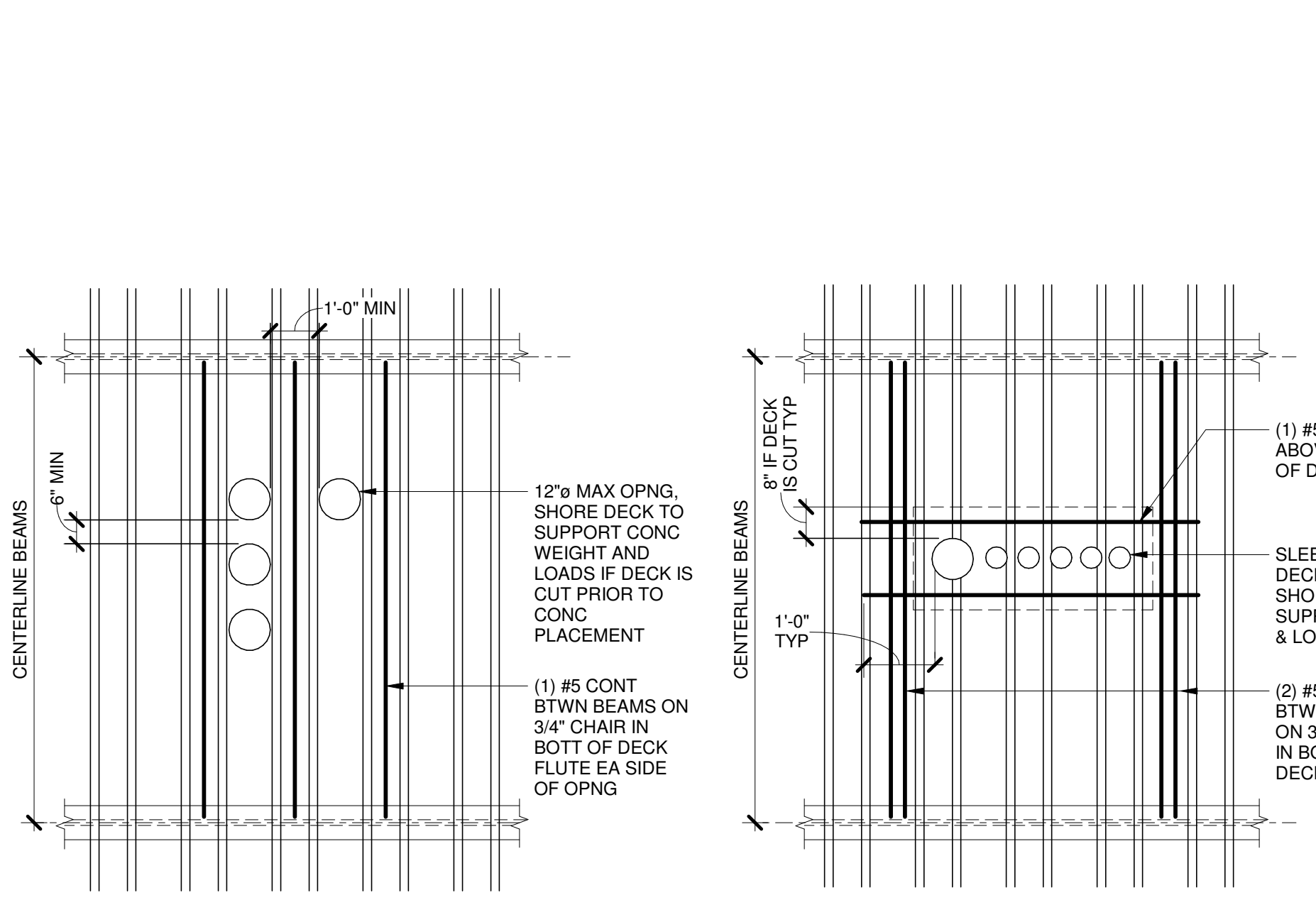
4 EQUALLY DISTRIBUTE SHEAR CONNECTORS INDICATED ON PLANS FOR EACH GIRDER SEGMENT BETWEEN LOAD POINTS (BEAMS WHICH FRAME INTO GIRDER).

5 SEE PLAN FOR STUD SIZE. NUMBER OF STUDS REQUIRED PER BEAM IS INDICATED BY (#).



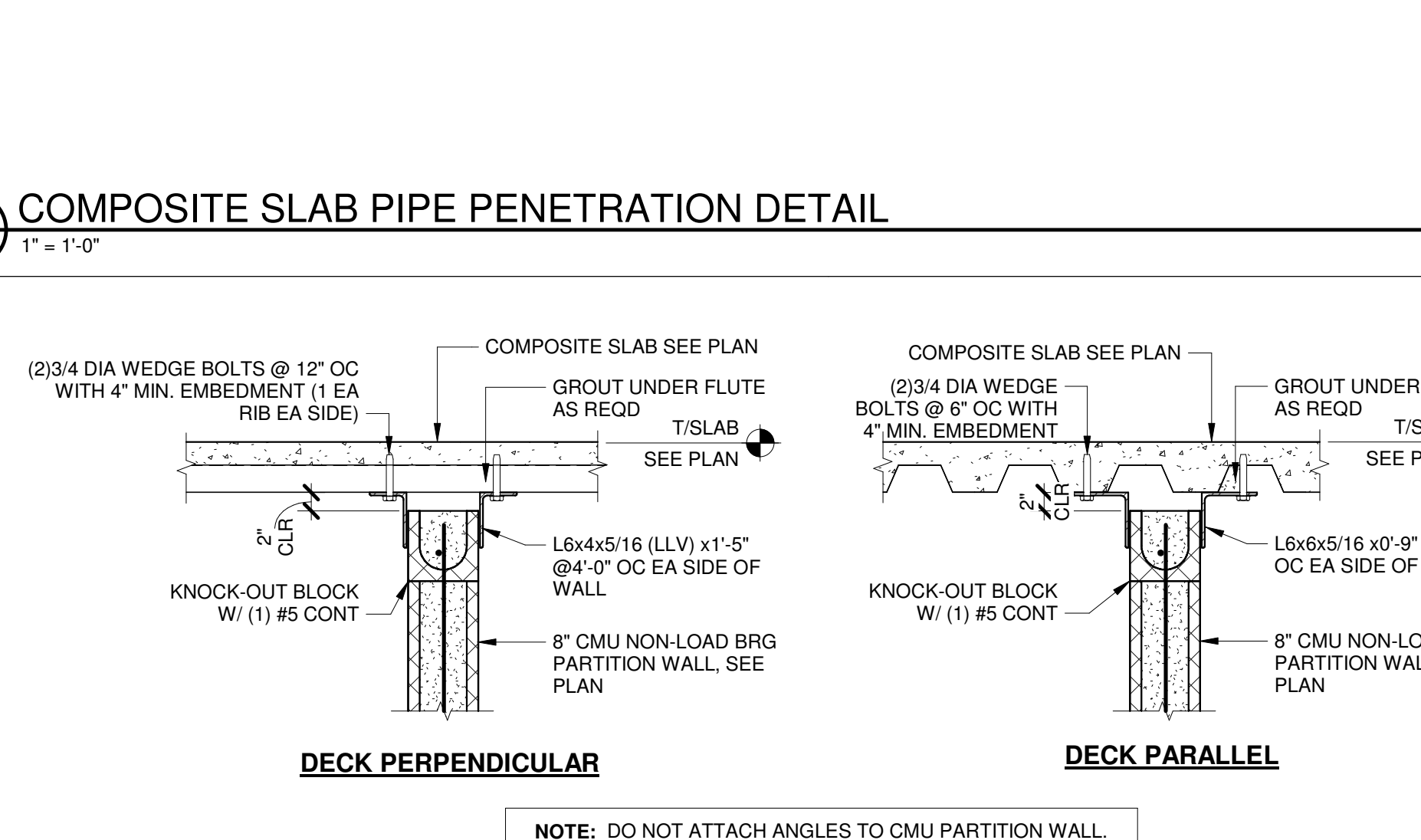
GROUPED SHEAR STUD PLACEMENT

8 S8.4 3/4" = 1'-0"



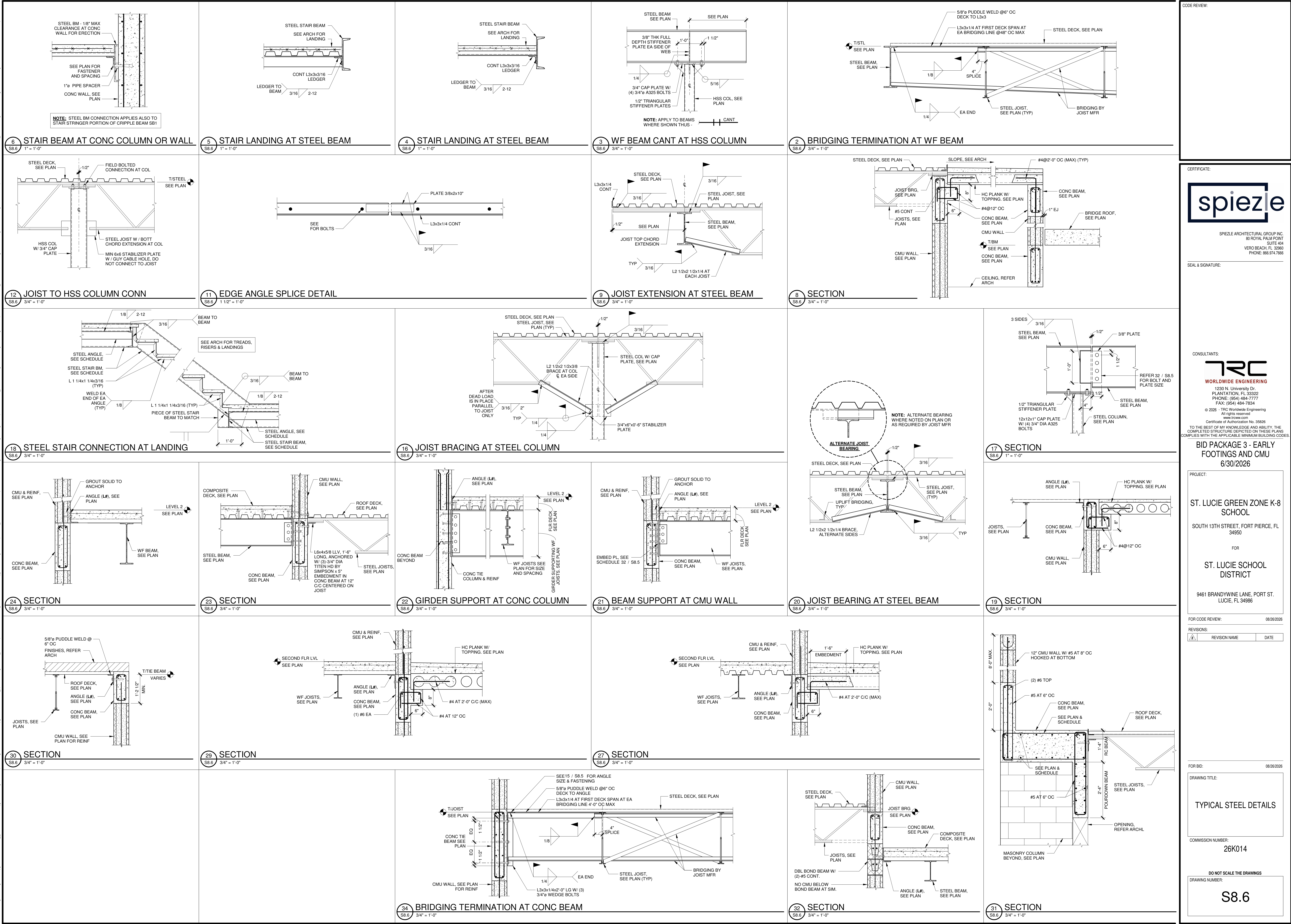
COMPOSITE SLAB PIPE PENETRATION DETAIL

20 S8.4 1" = 1'-0"



BRACING AT CMU NON LOAD BEARING PARTITION WALL

26 S8.4 3/4" = 1'-0"



CODE REVIEW:

CERTIFICATE:

spiezie

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6/30/2026

PROJECT:

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FOR
ST. LUCIE SCHOOL
DISTRICT
9461 BRANDYWINE LANE, PORT ST.
LUCIE, FL 34986

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DRAWING TITLE:

TYPICAL STEEL DETAILS

COMMISSION NUMBER:

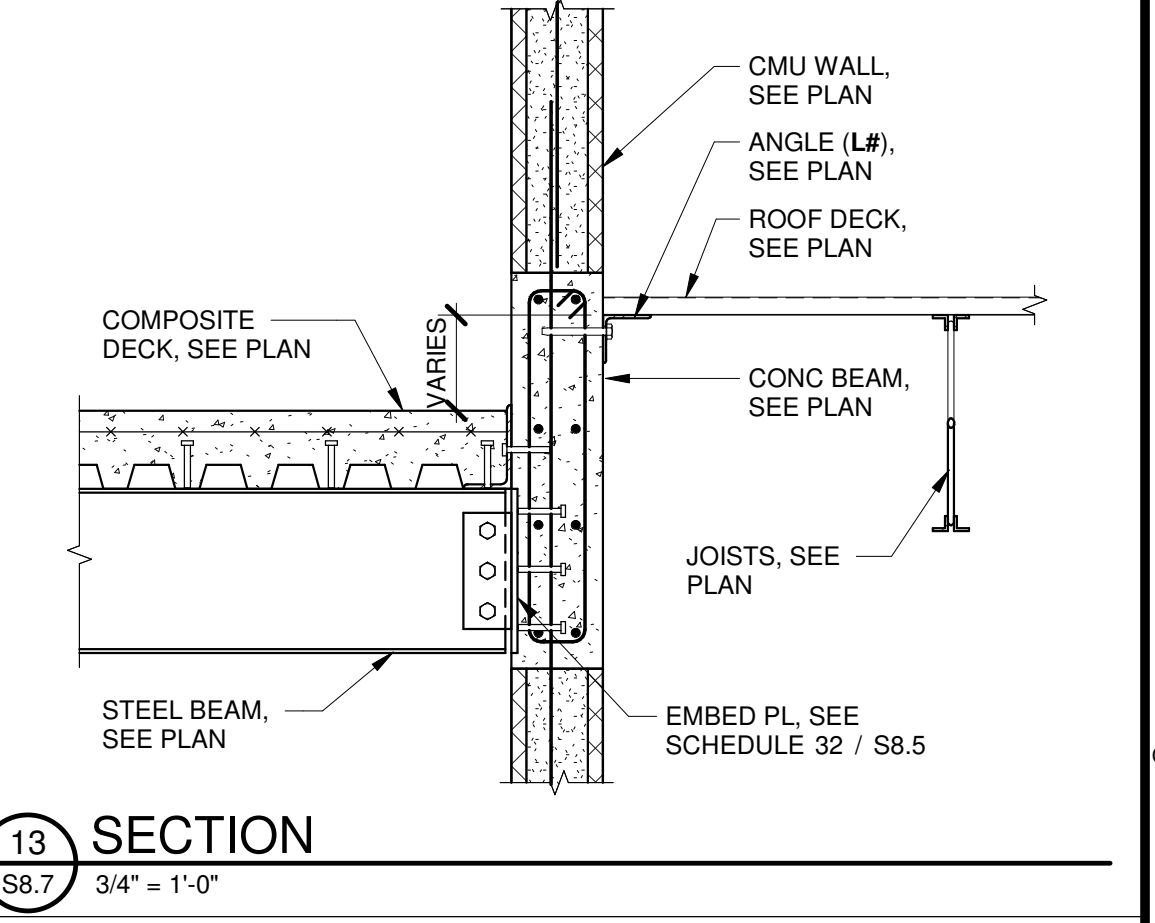
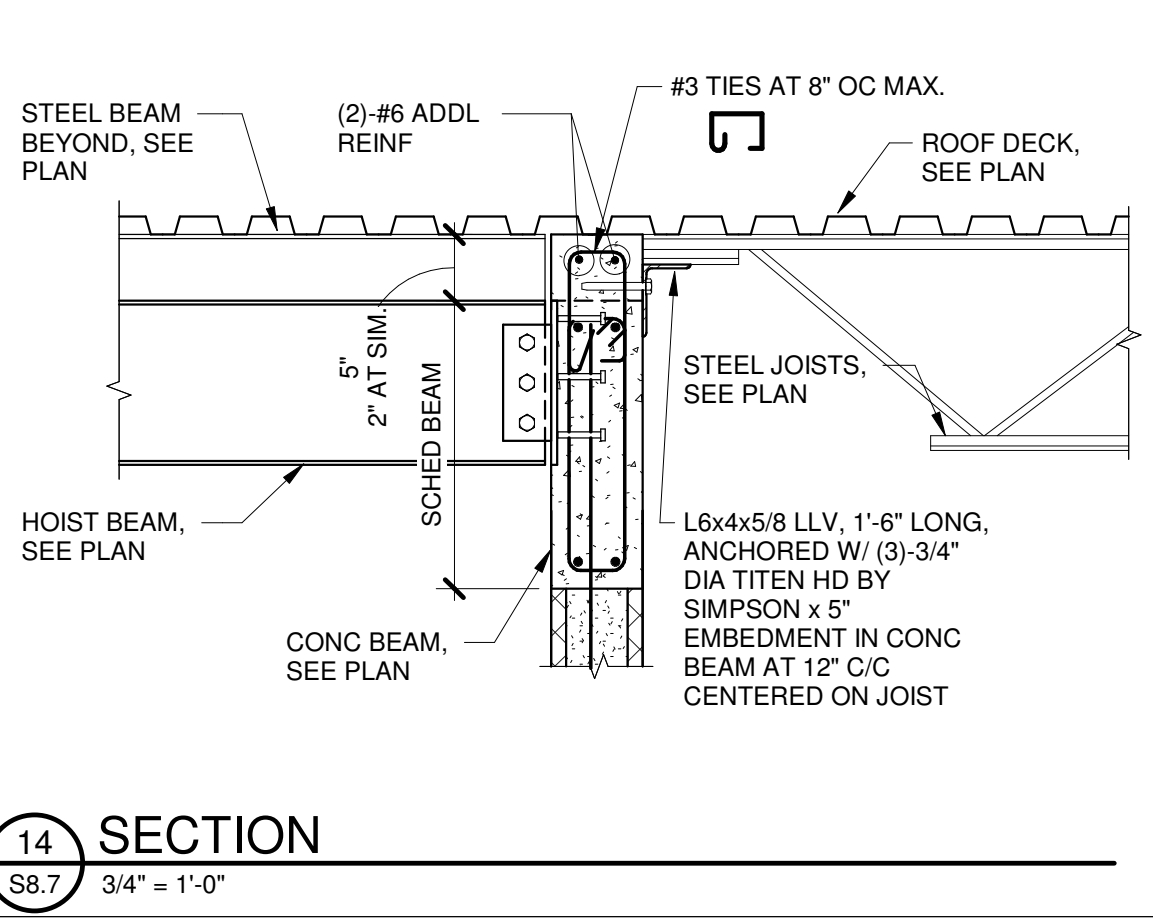
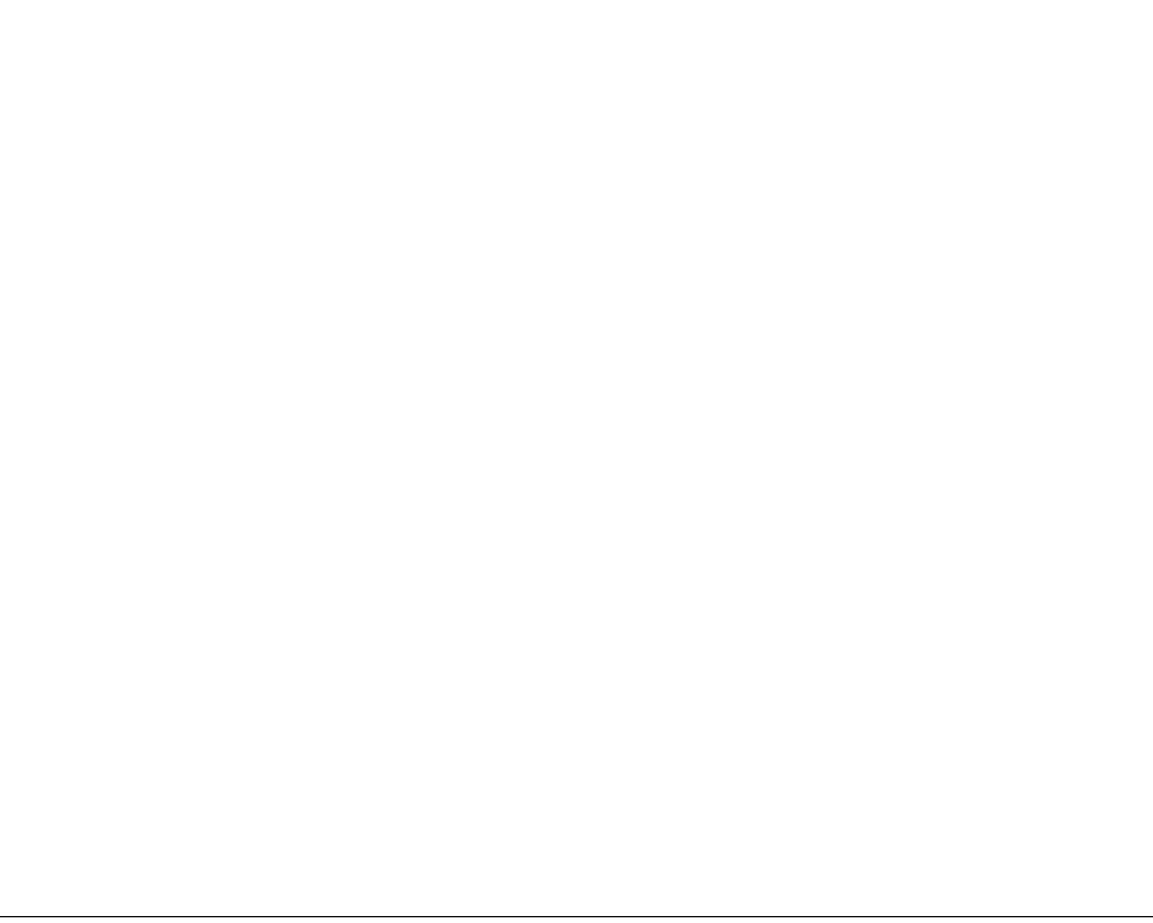
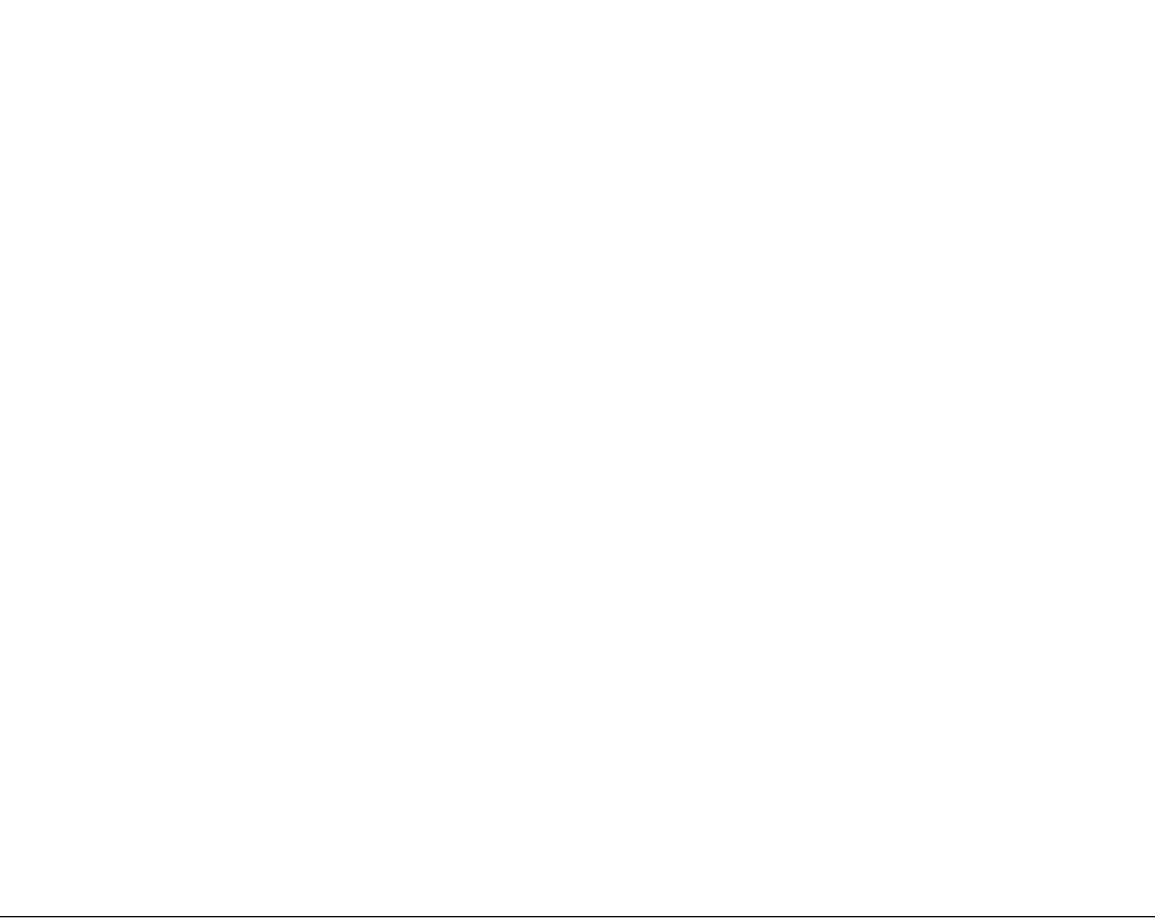
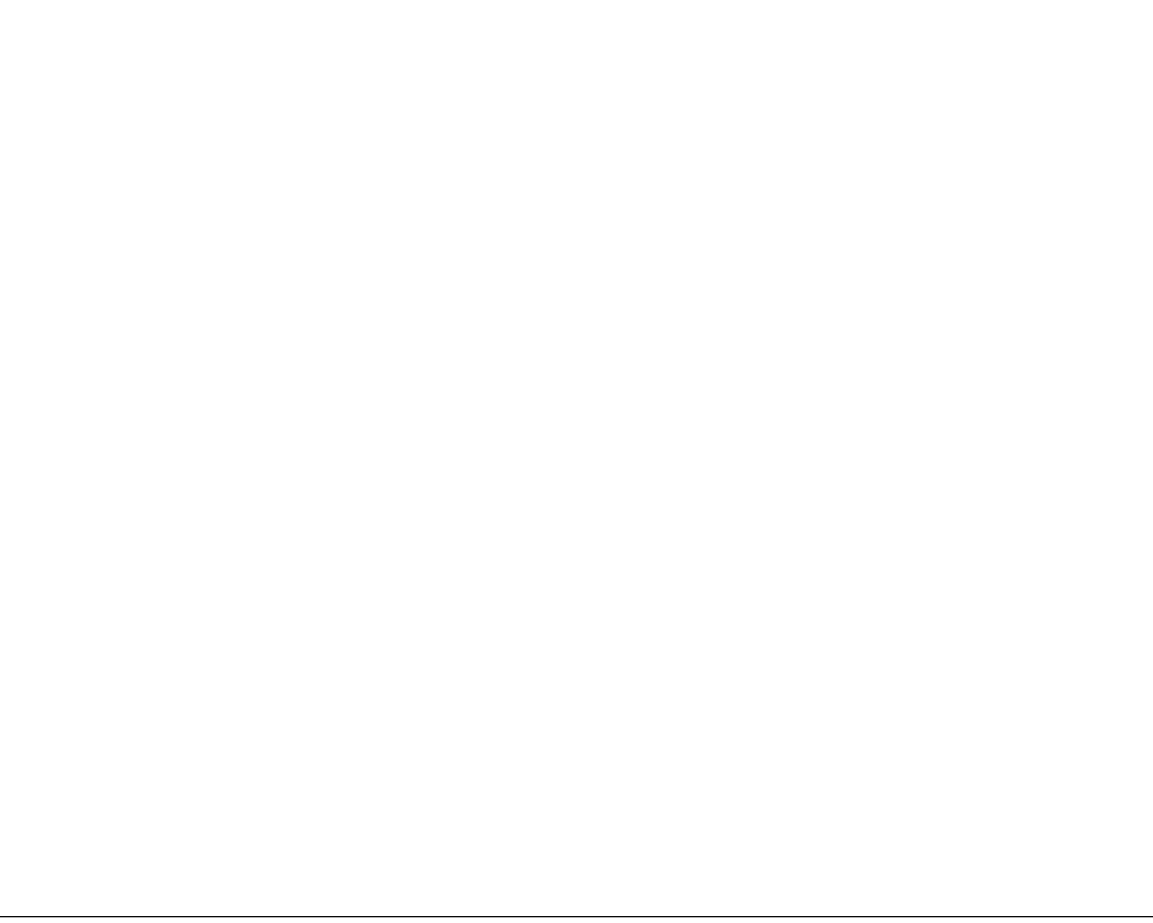
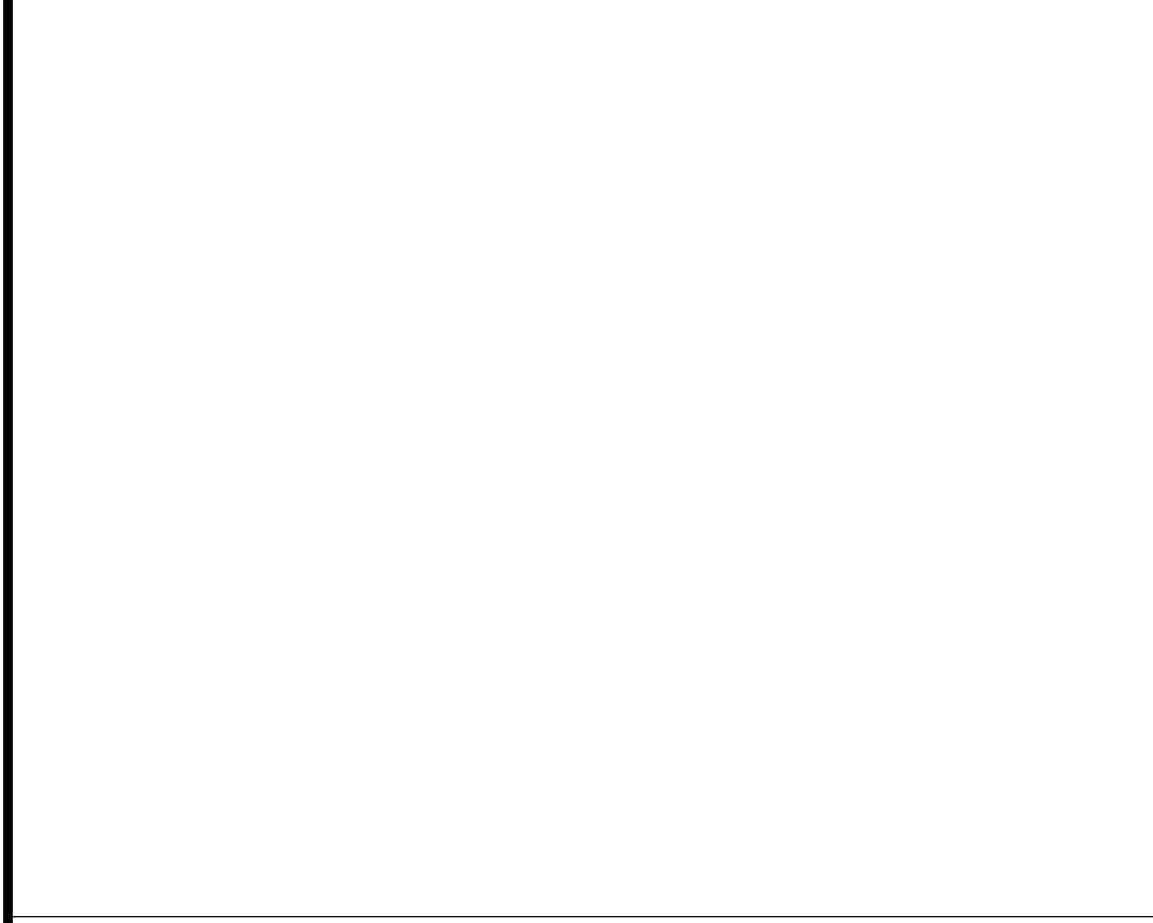
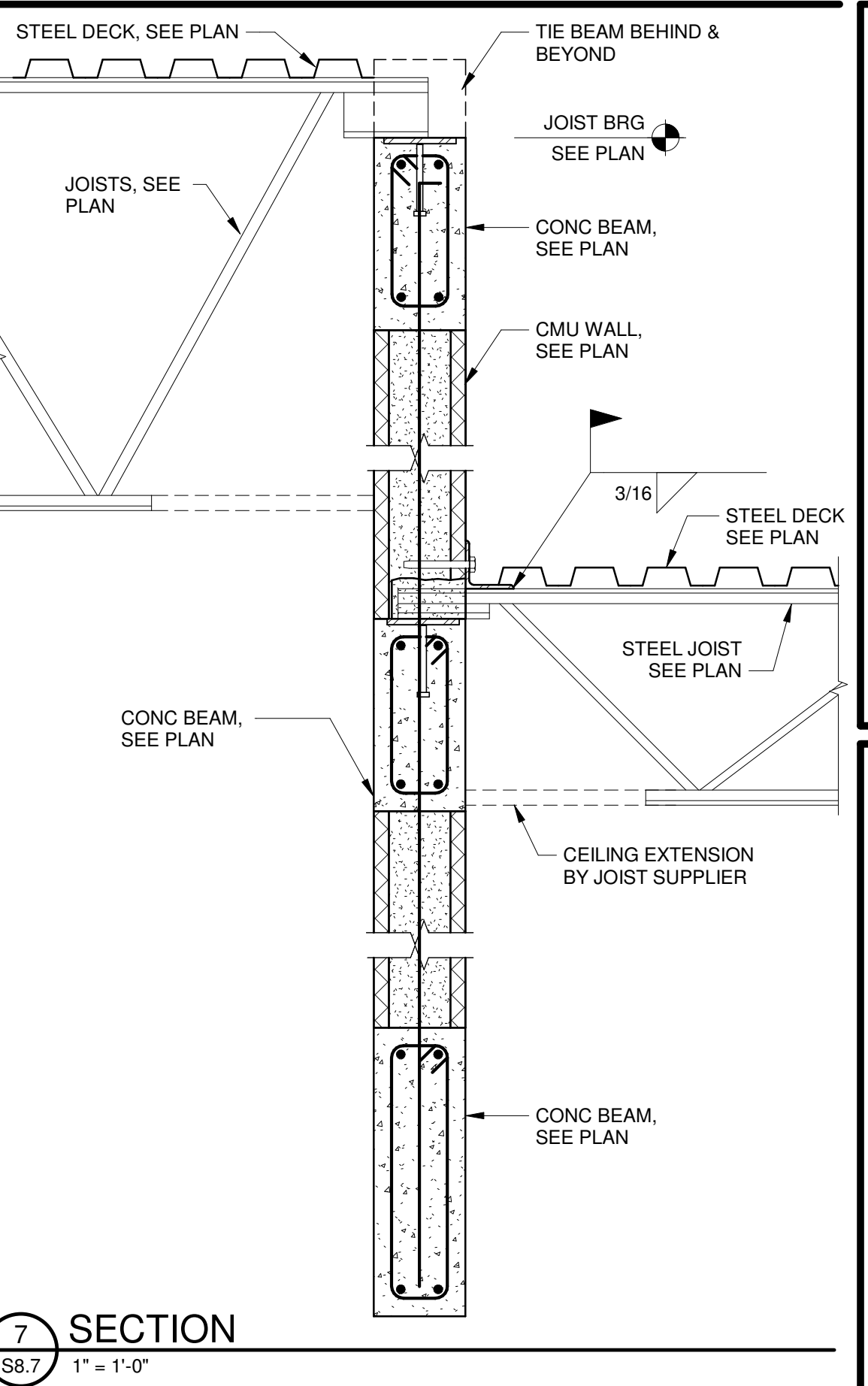
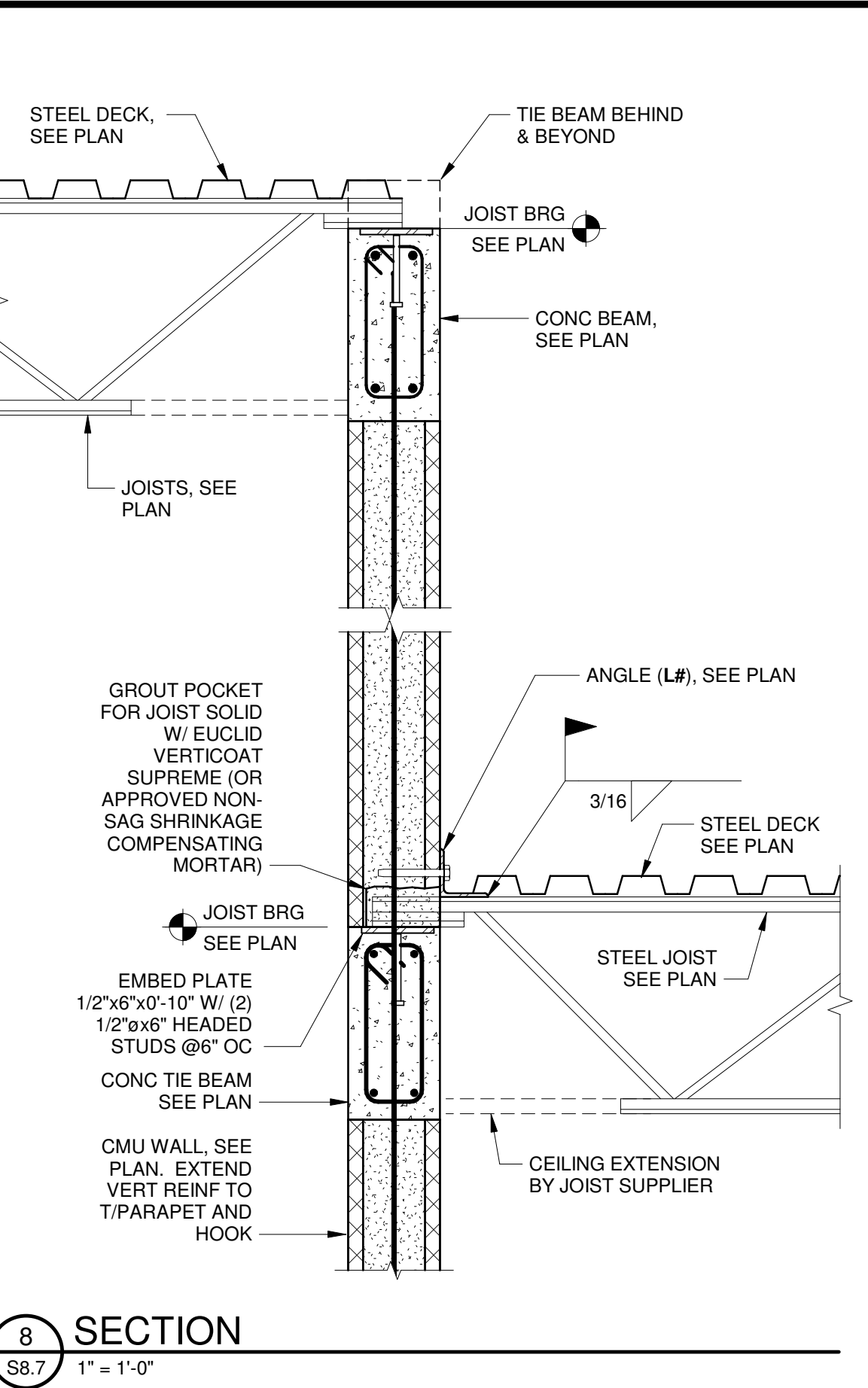
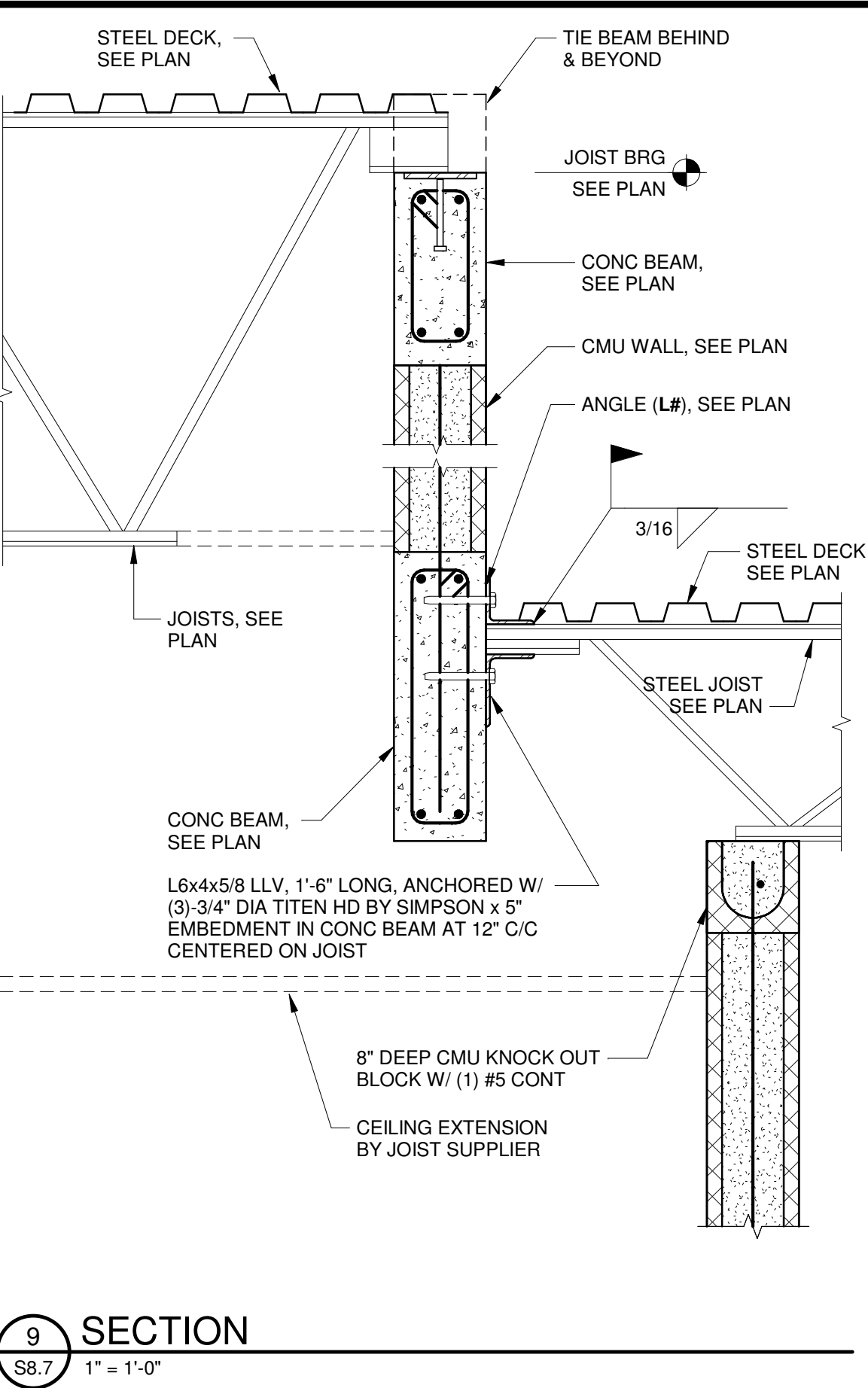
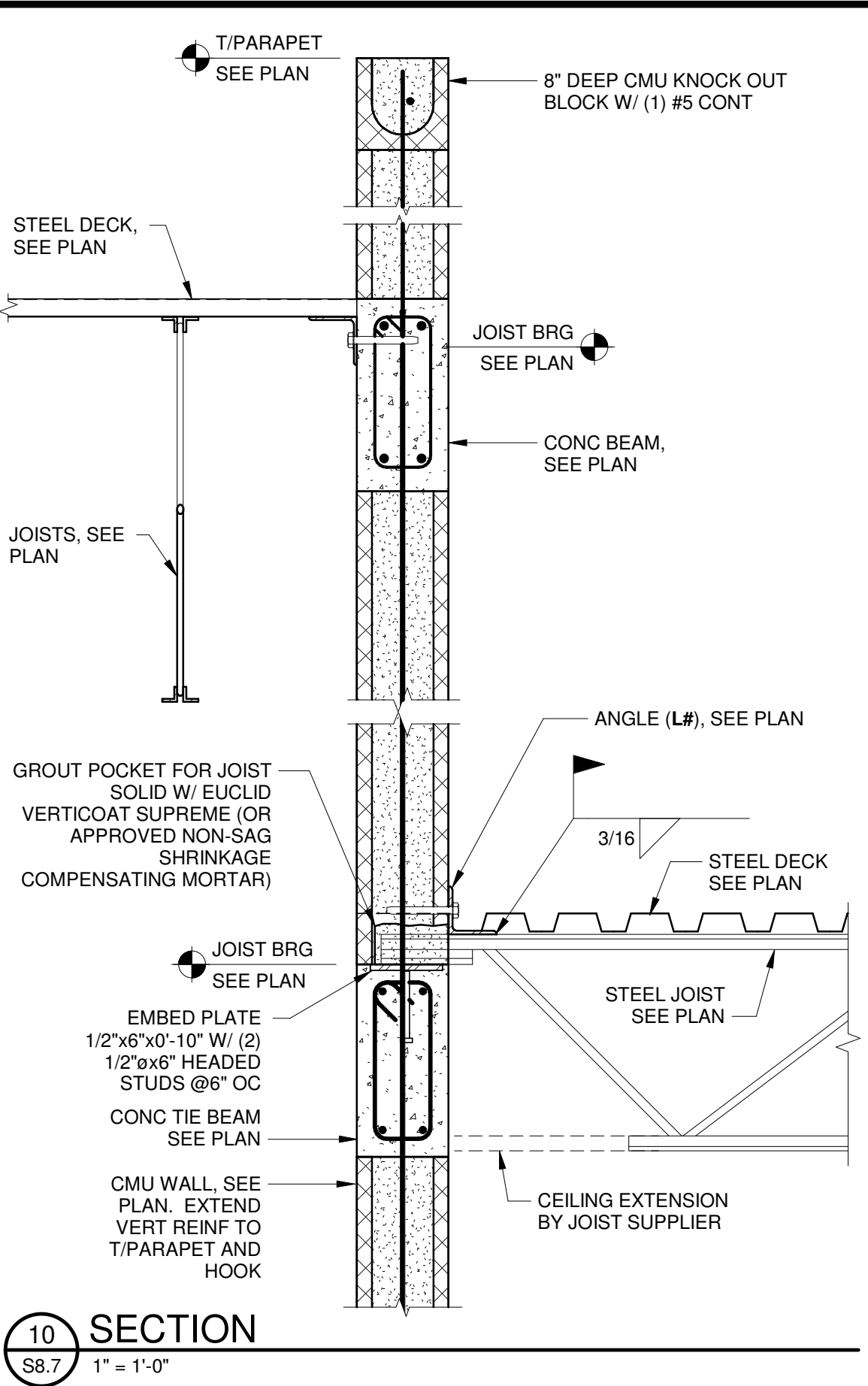
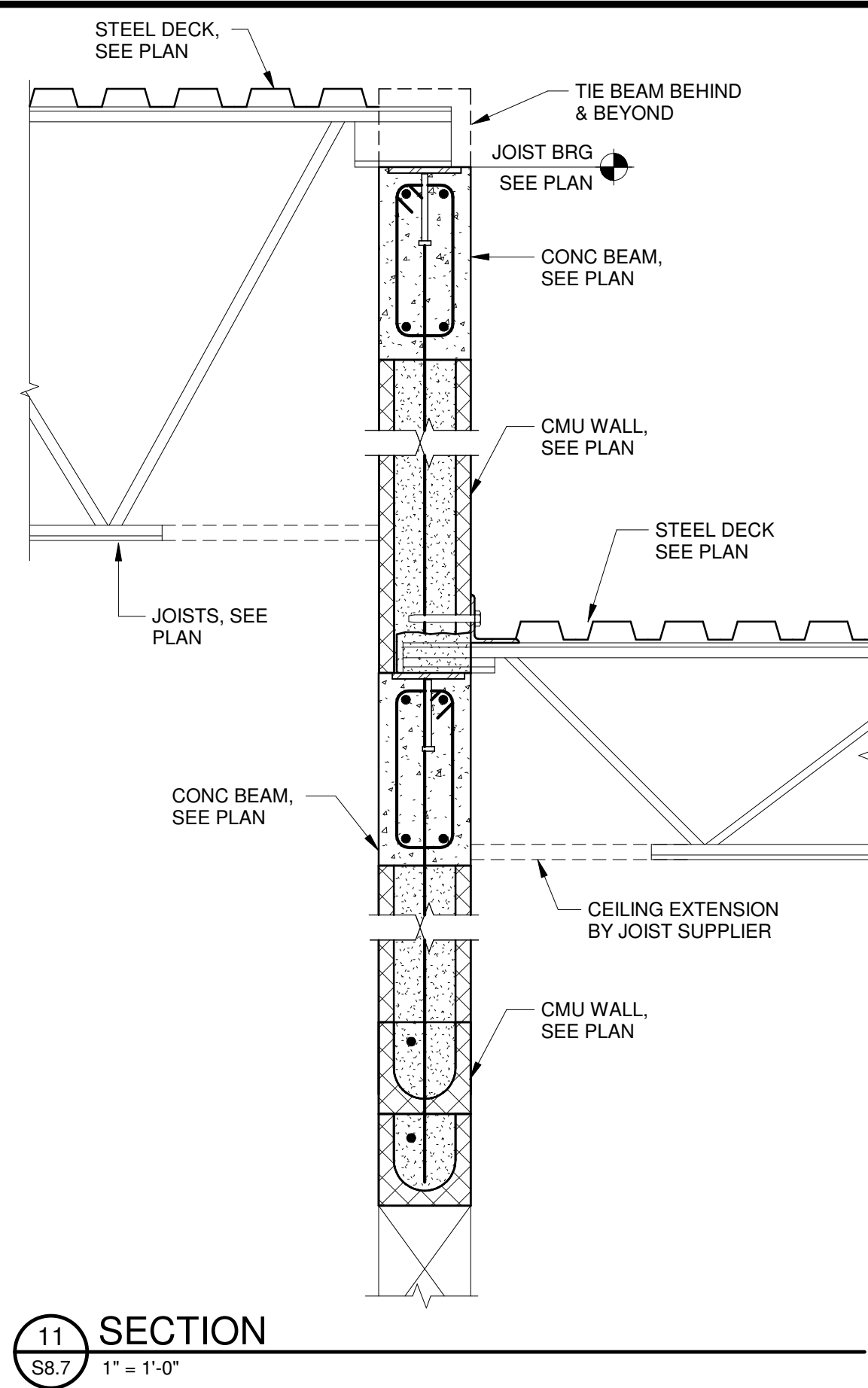
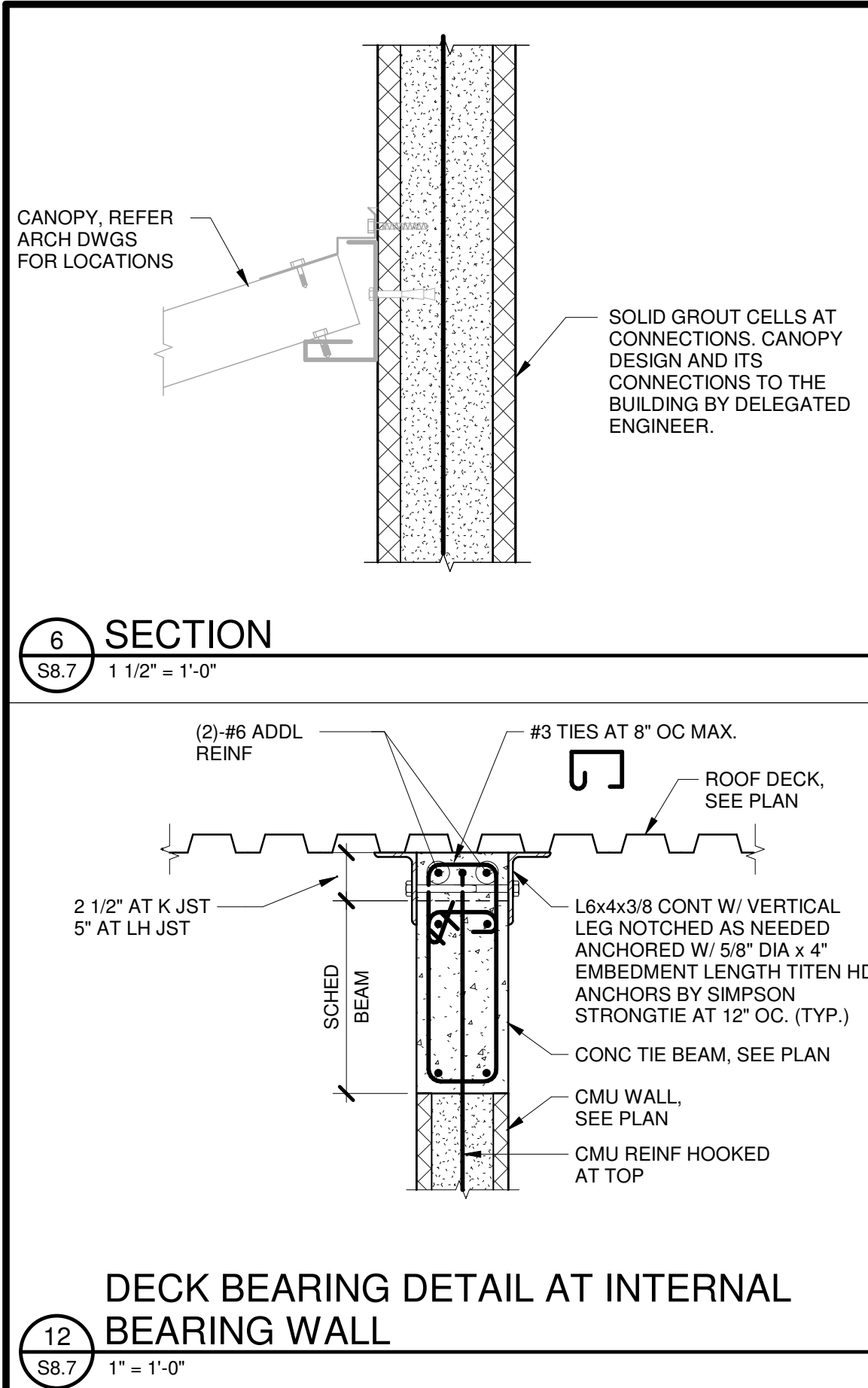
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34950

FOR

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DISTRICT

9461 BRANDYWINE LANE, PORT ST.
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DRAWING TITLE:

TYPICAL STEEL DETAILS

COMMISSION NUMBER:

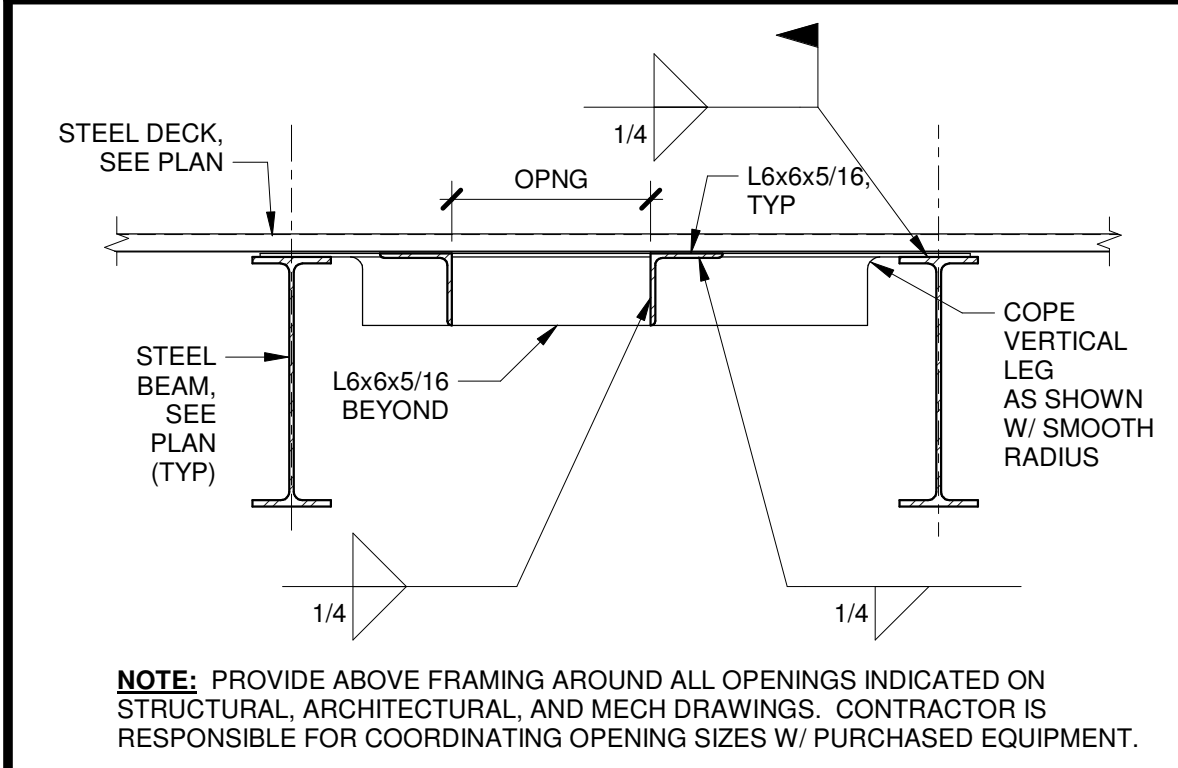
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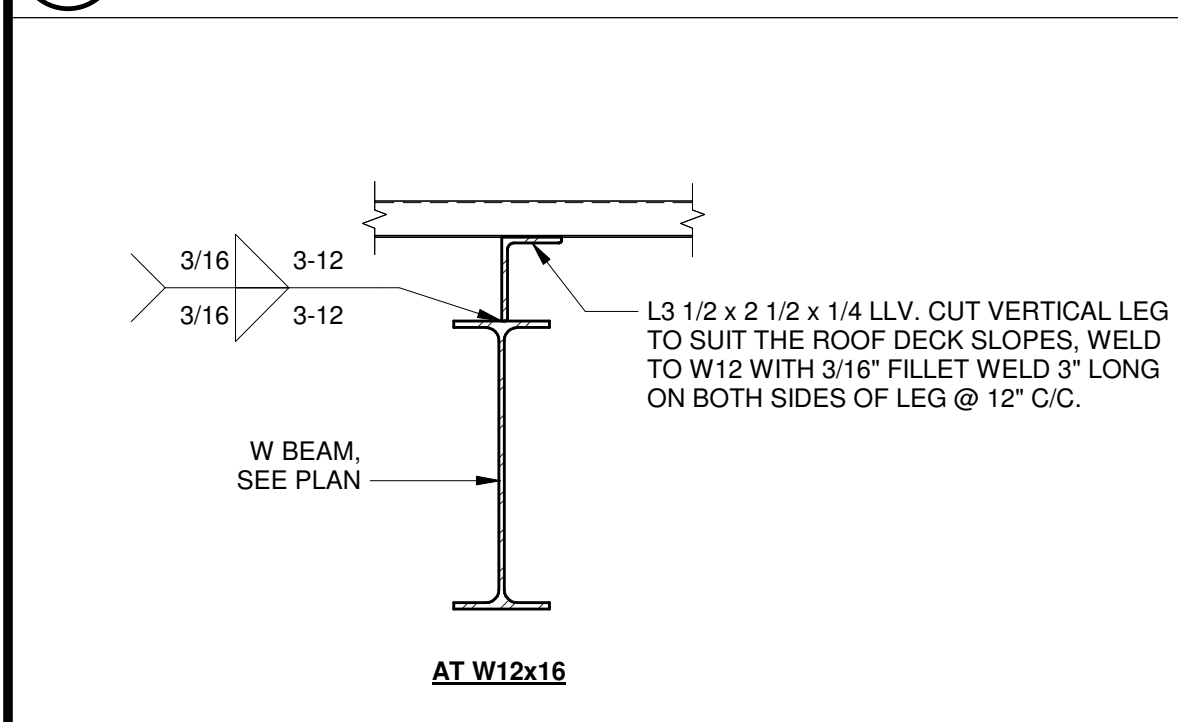
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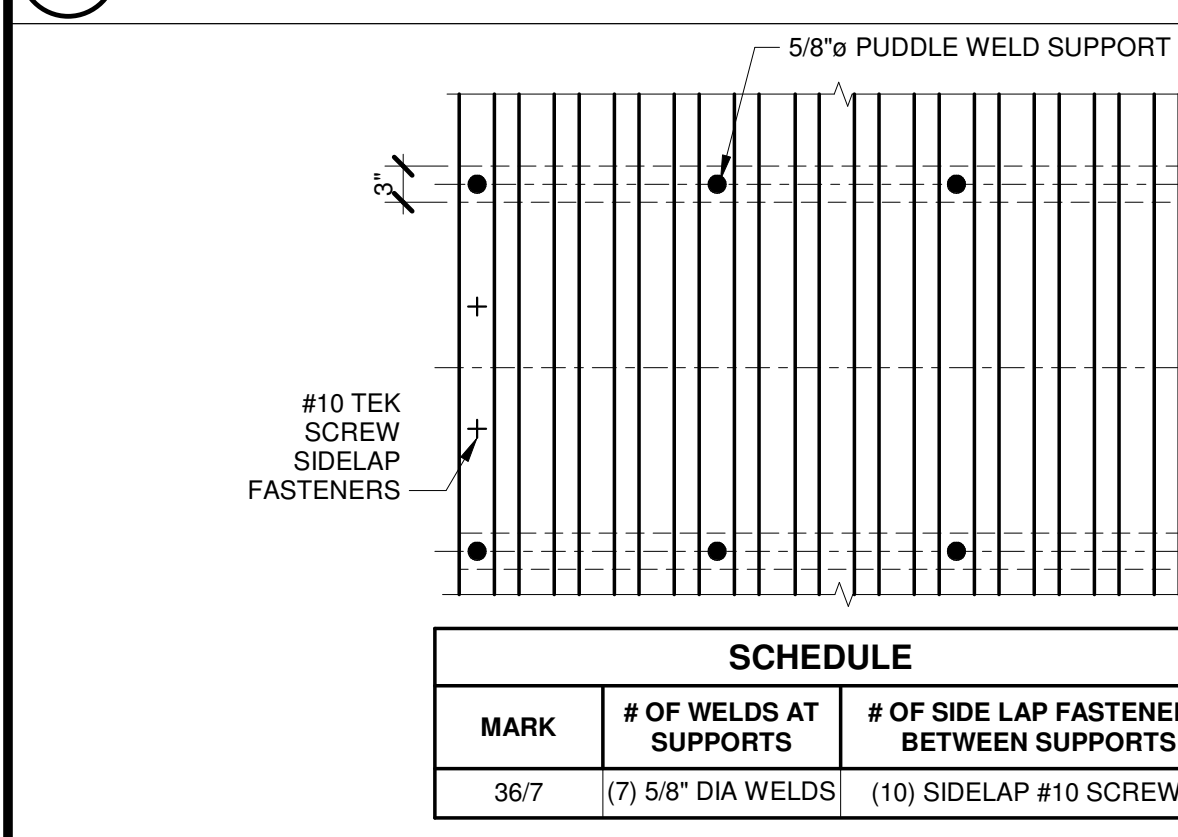
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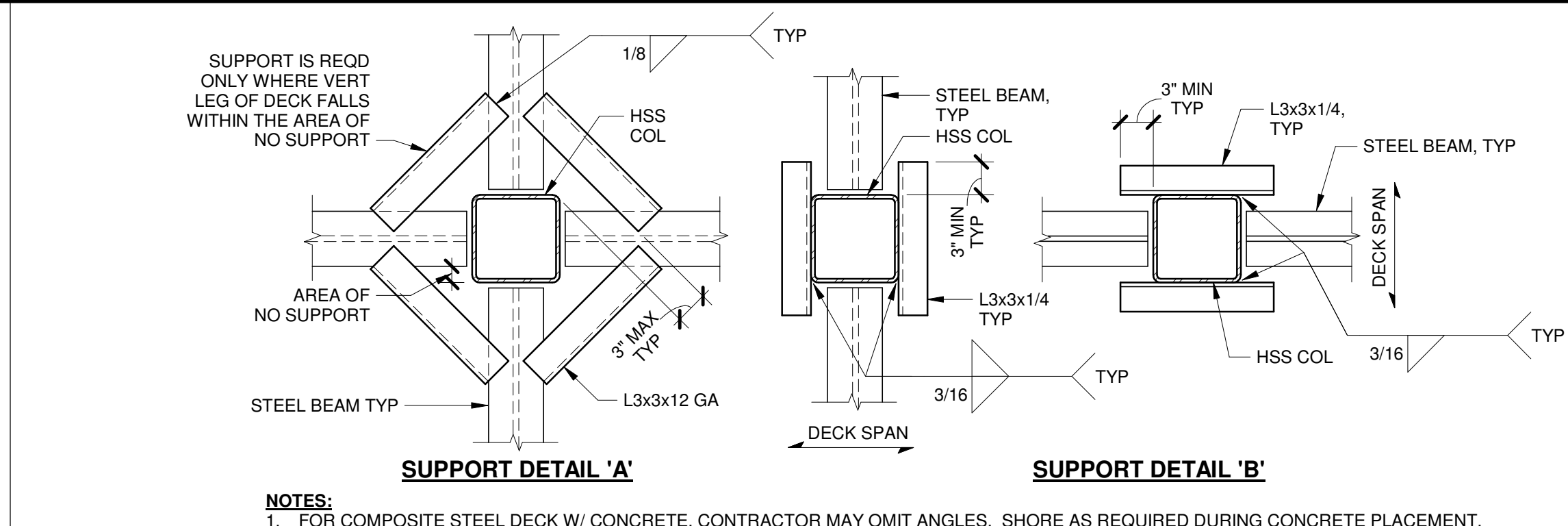
6 ROOF OPENING DETAIL
S8.8 3/4" = 1'-0"



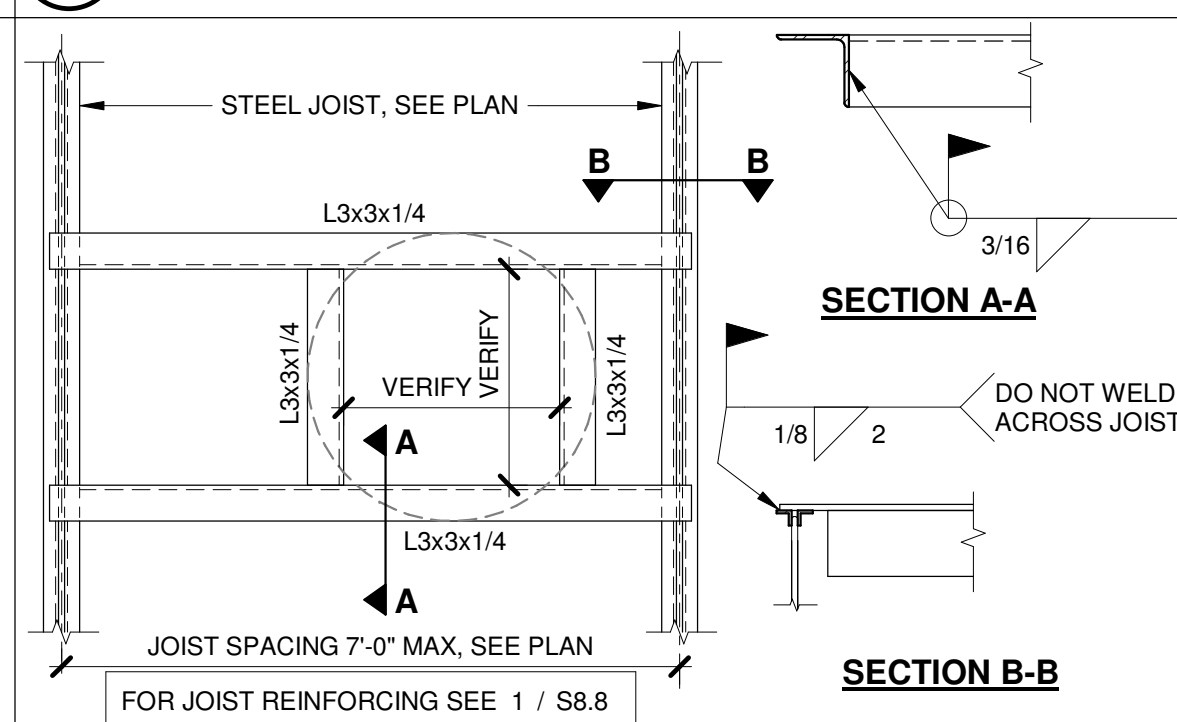
12 DECK SUPPORT SECTION
S8.8 1 1/2" = 1'-0"



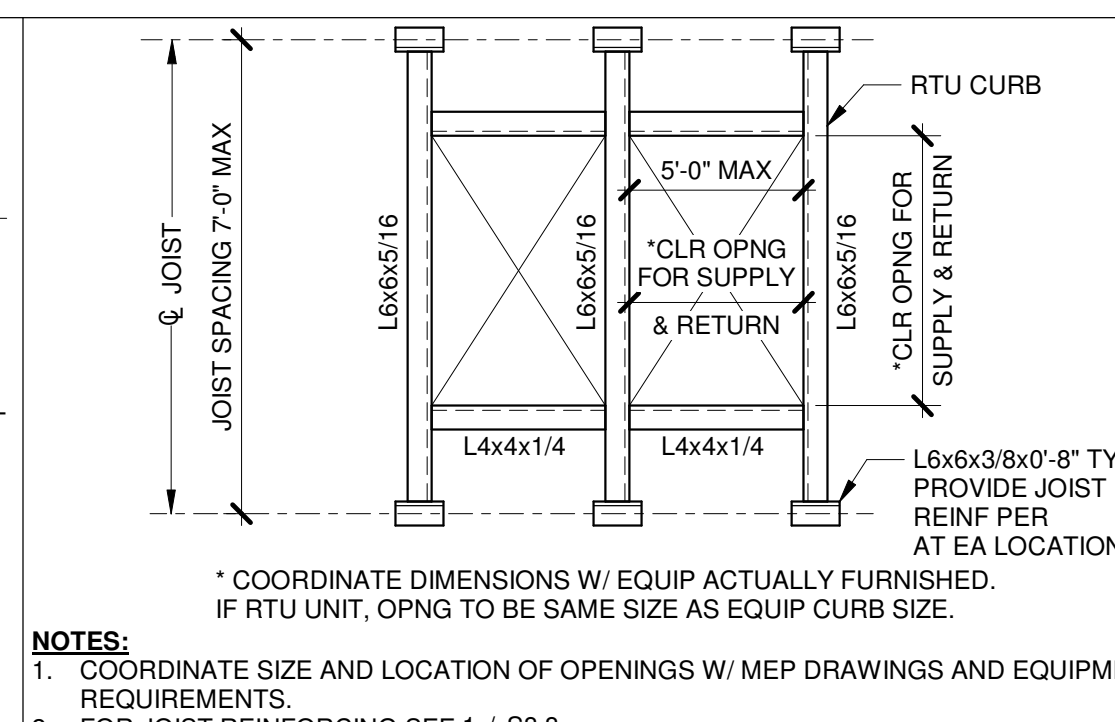
18 ROOF DECK ATTACHMENT SCHEDULE
S8.8 3/4" = 1'-0"



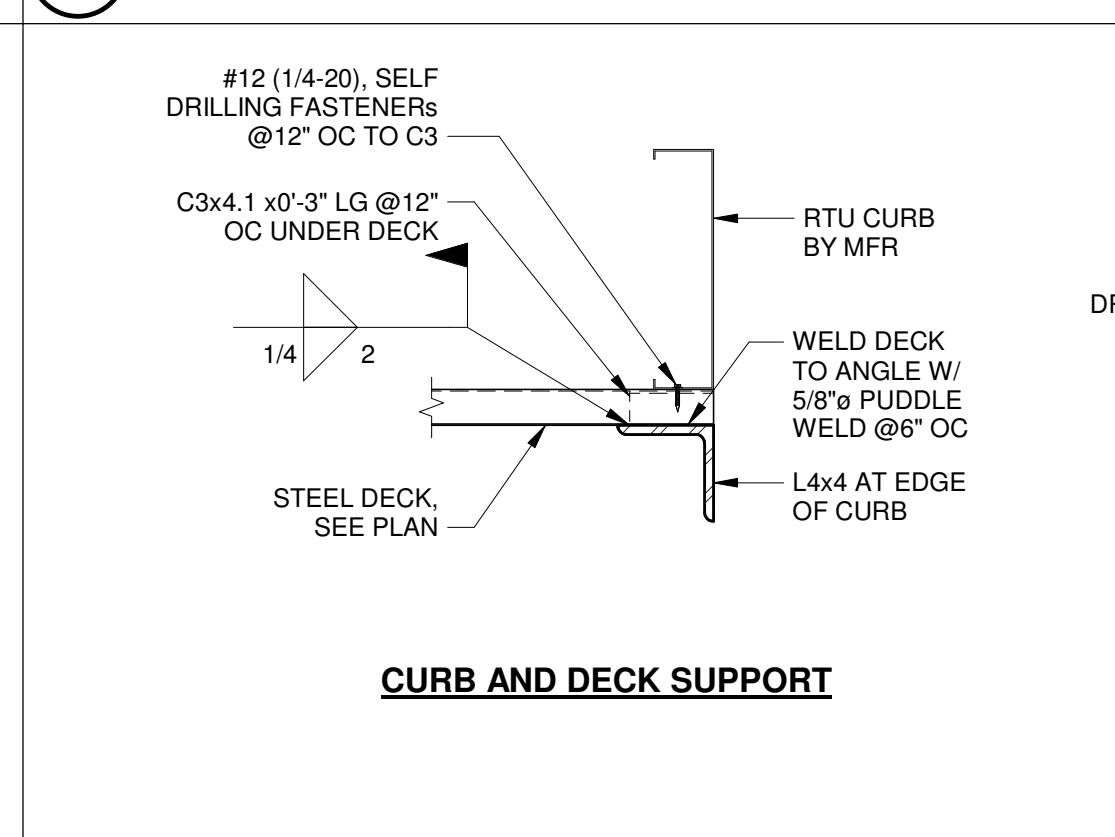
5 DECK SUPPORT AT HSS COLUMN
S8.8 1" = 1'-0"



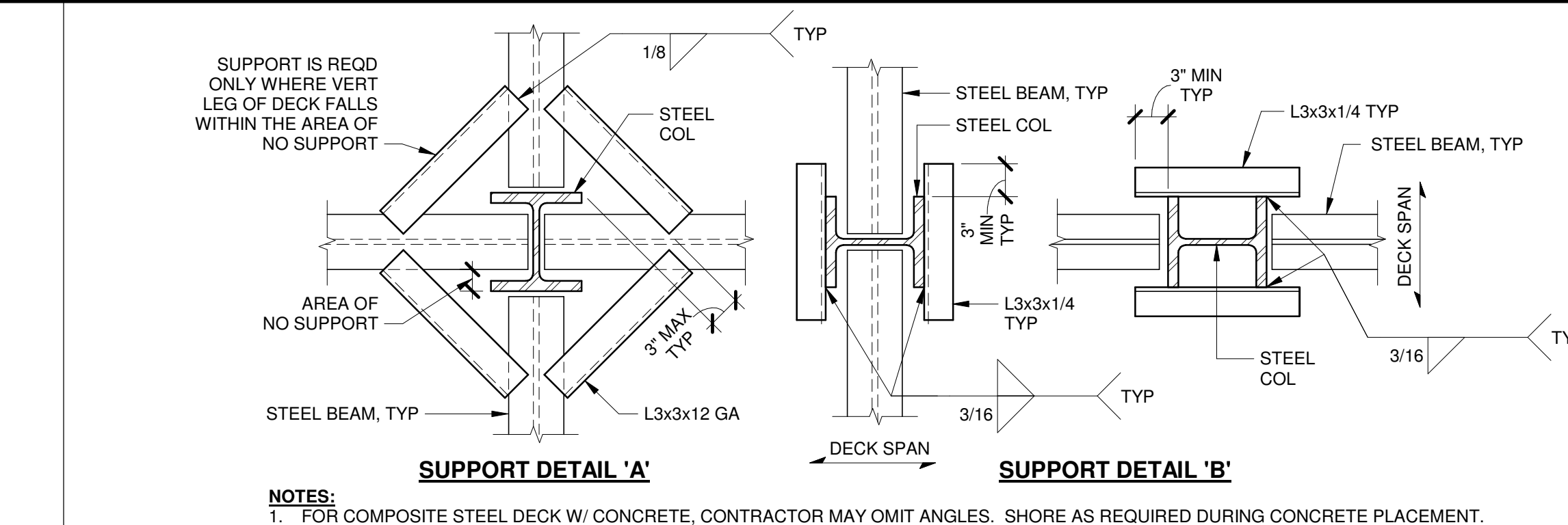
11 ROOF DRAIN SUPPORT FRAMING AT STEEL JOISTS
S8.8 3/4" = 1'-0"



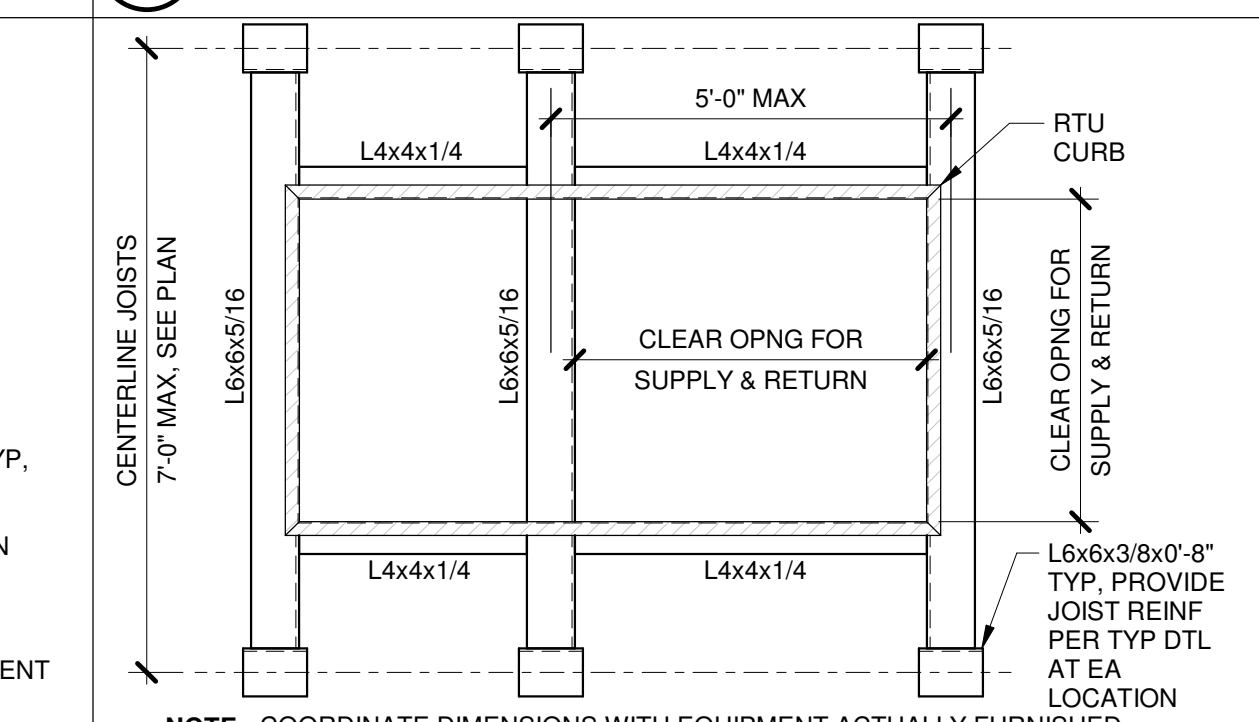
10 ROOF OPENING / EQUIPMENT SUPPORT FRAME
S8.8 3/4" = 1'-0"



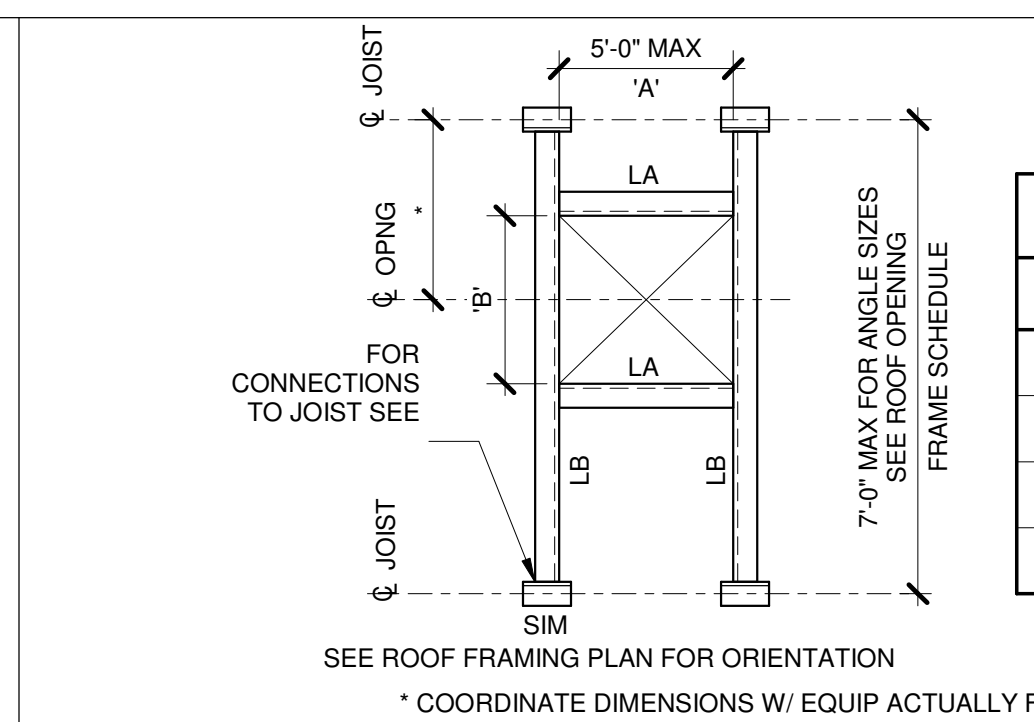
16 ROOF OPENING/EQUIPMENT SUPPORT FRAME CONNECTION DETAILS
S8.8 1 1/2" = 1'-0"



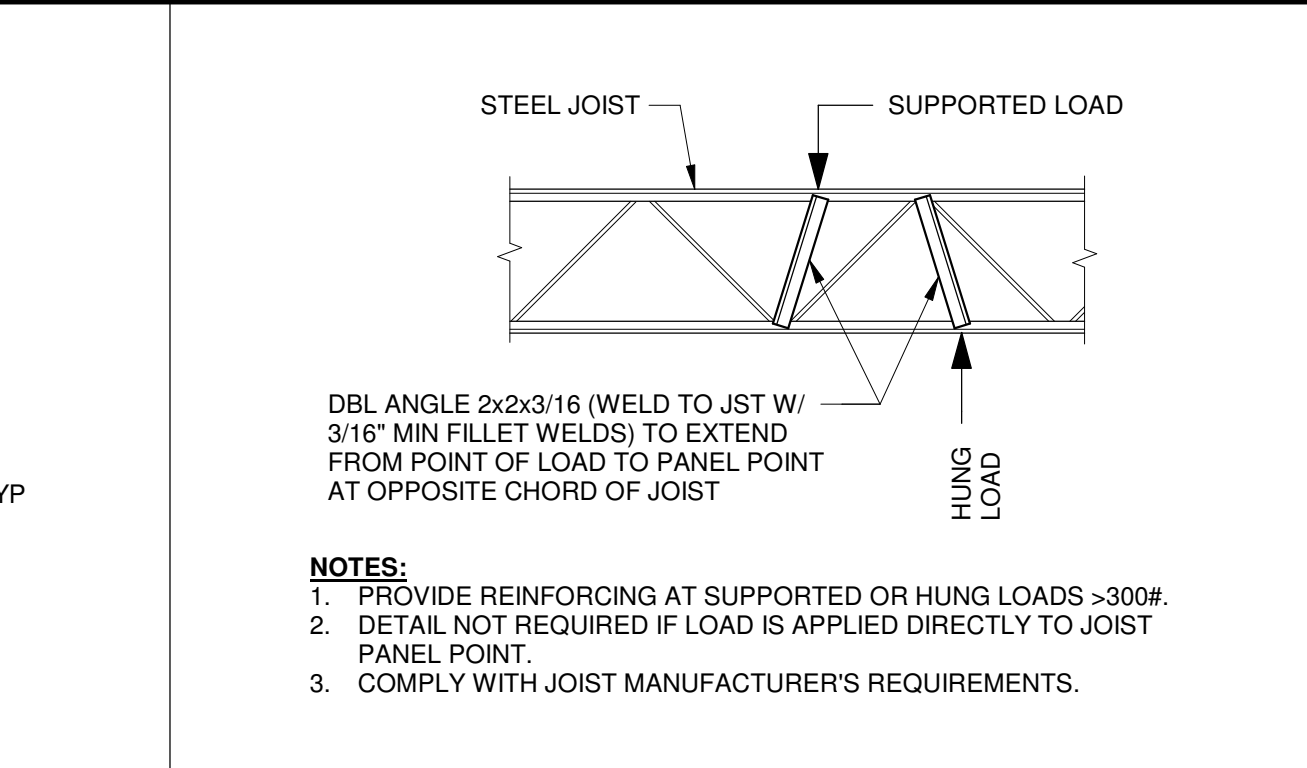
3 DECK SUPPORT AT WF COLUMN
S8.8 1" = 1'-0"



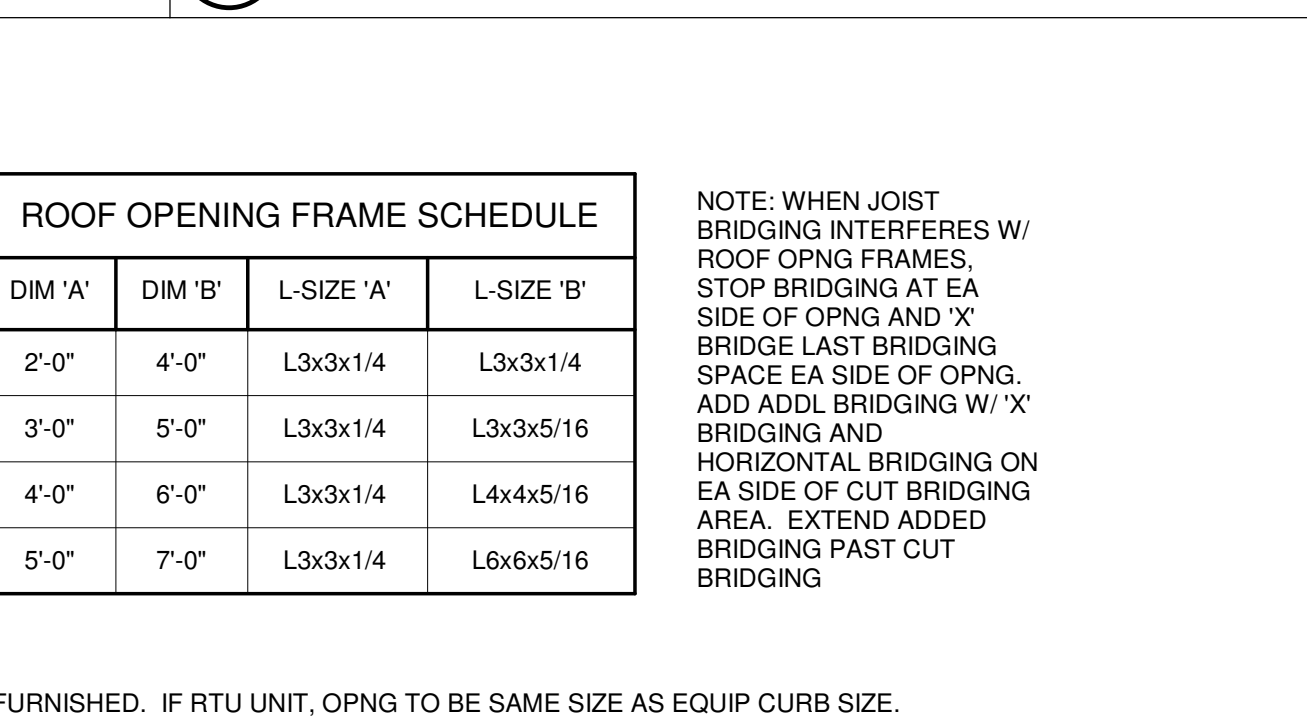
9 ROOF OPENING/EQUIPMENT SUPPORT FRAME
S8.8 1/2" = 1'-0"



8 ROOF OPENING / EQUIP SUPPORT FRAME
S8.8 3/4" = 1'-0"



1 JOIST REINFORCING AT POINT LOADS
S8.8 3/4" = 1'-0"



13 DECK SUPPORT SECTION
S8.8 1 1/2" = 1'-0"

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FOR

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TYPICAL ROOF DETAILS

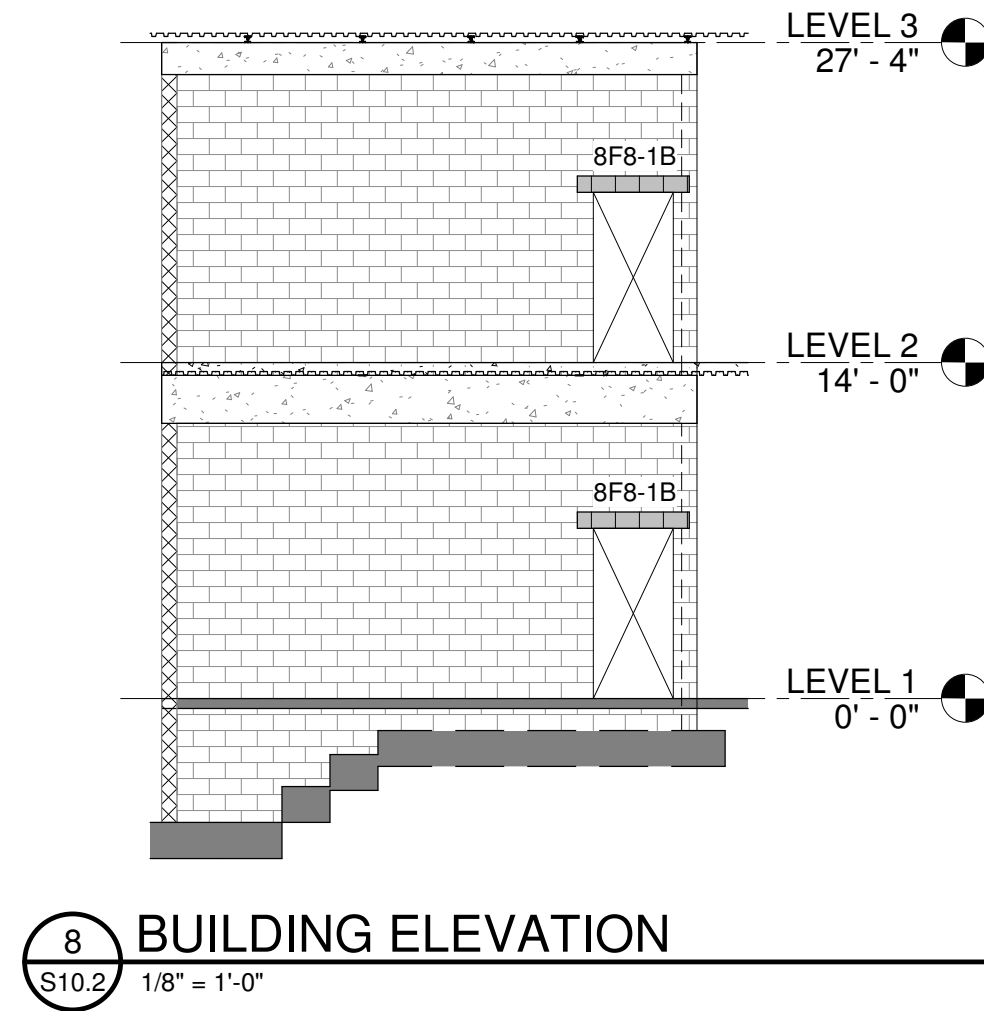
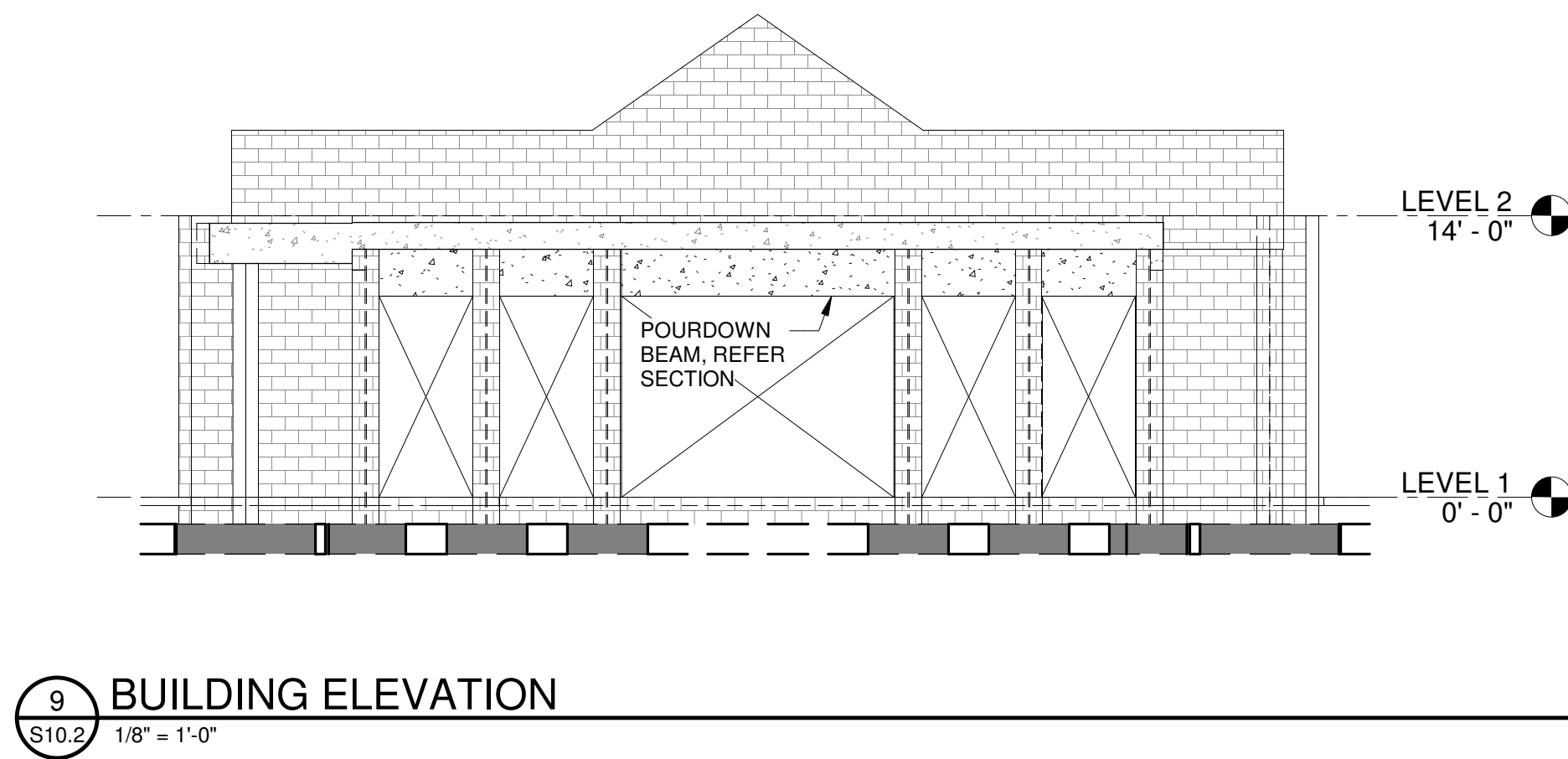
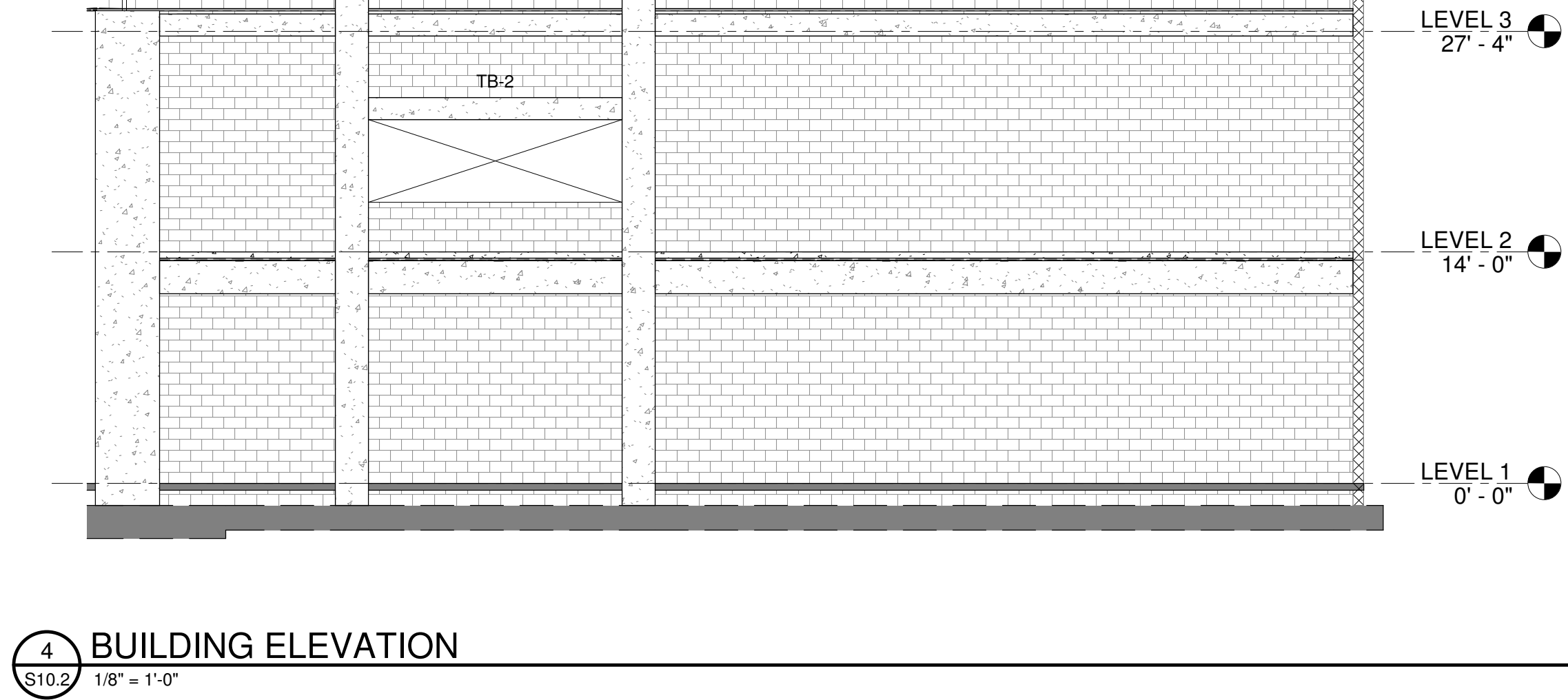
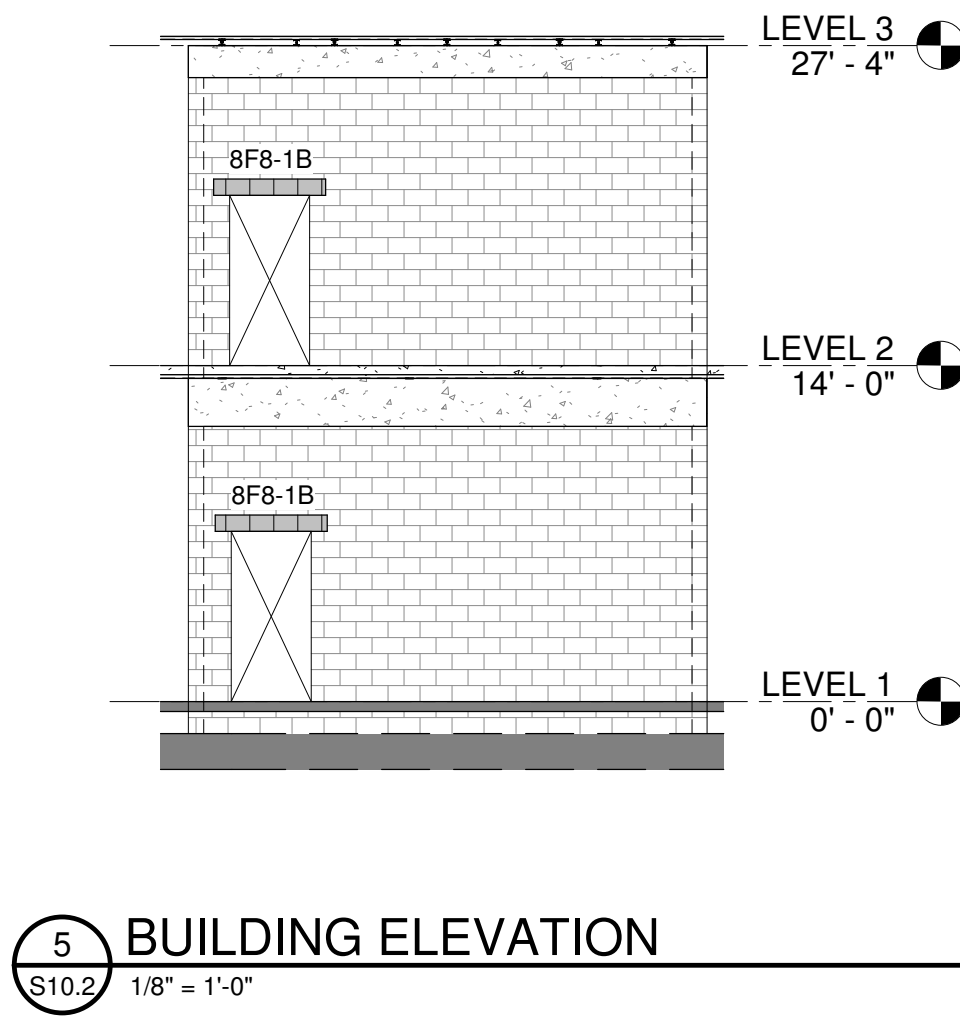
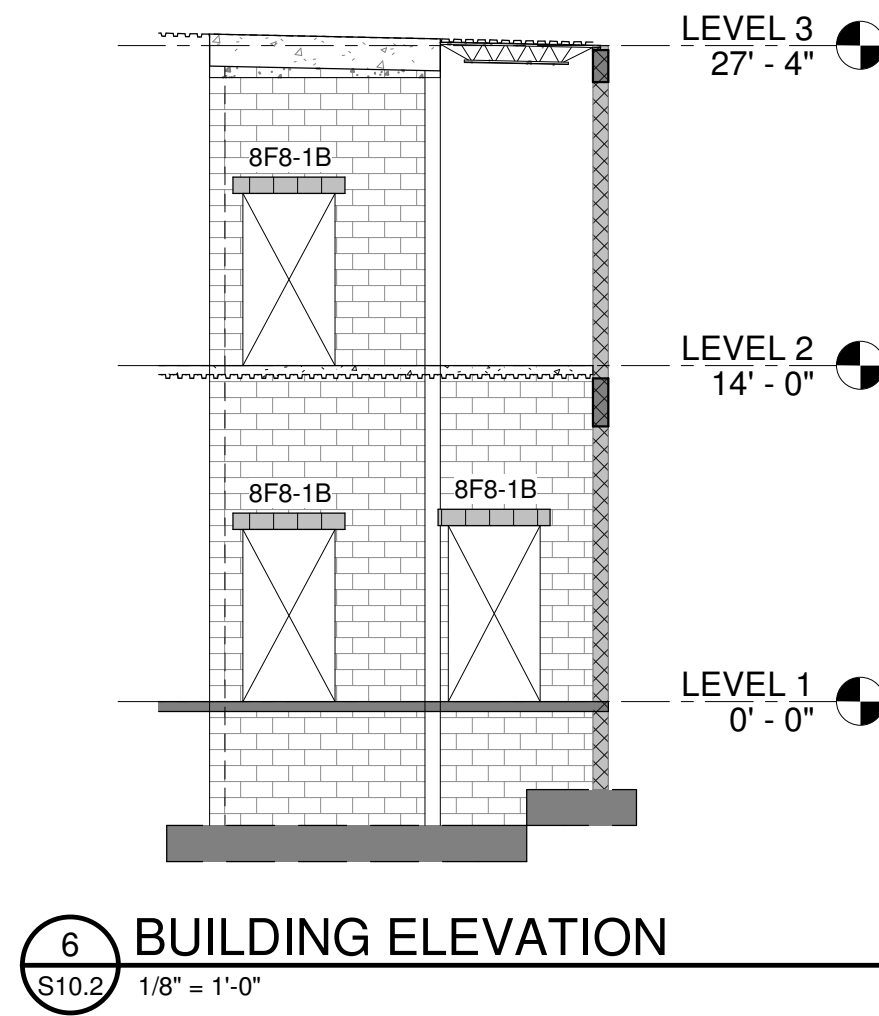
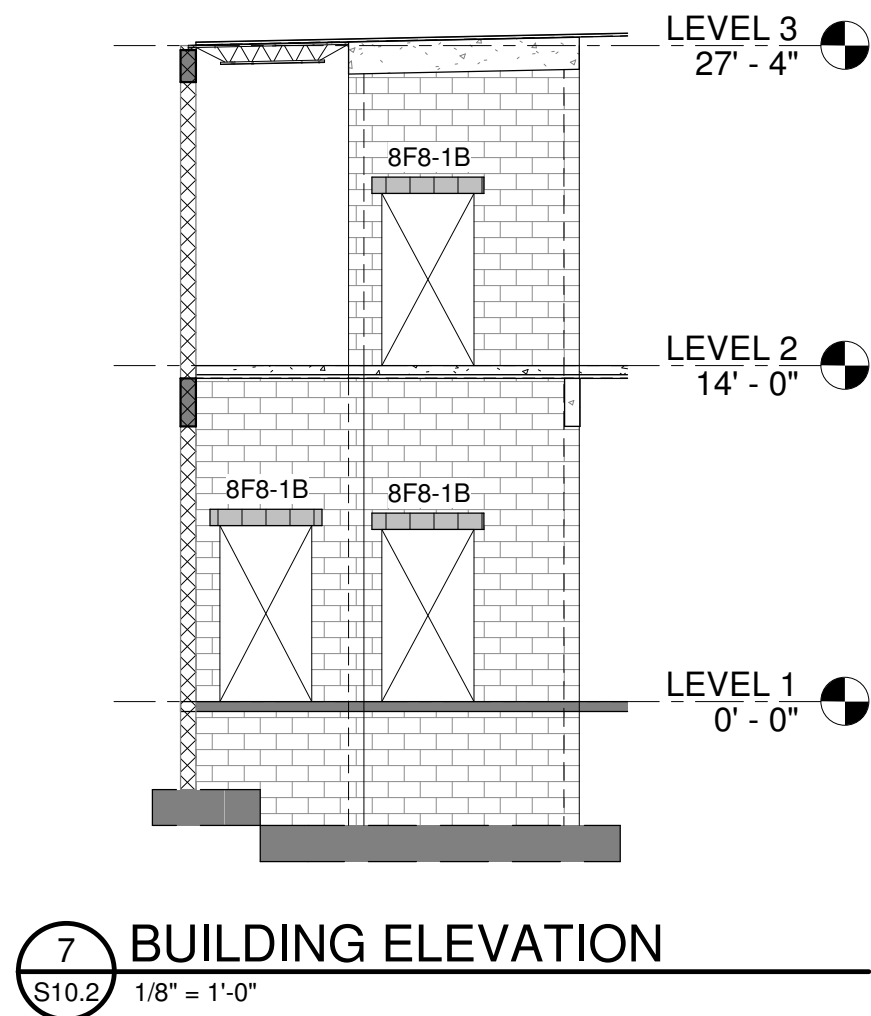
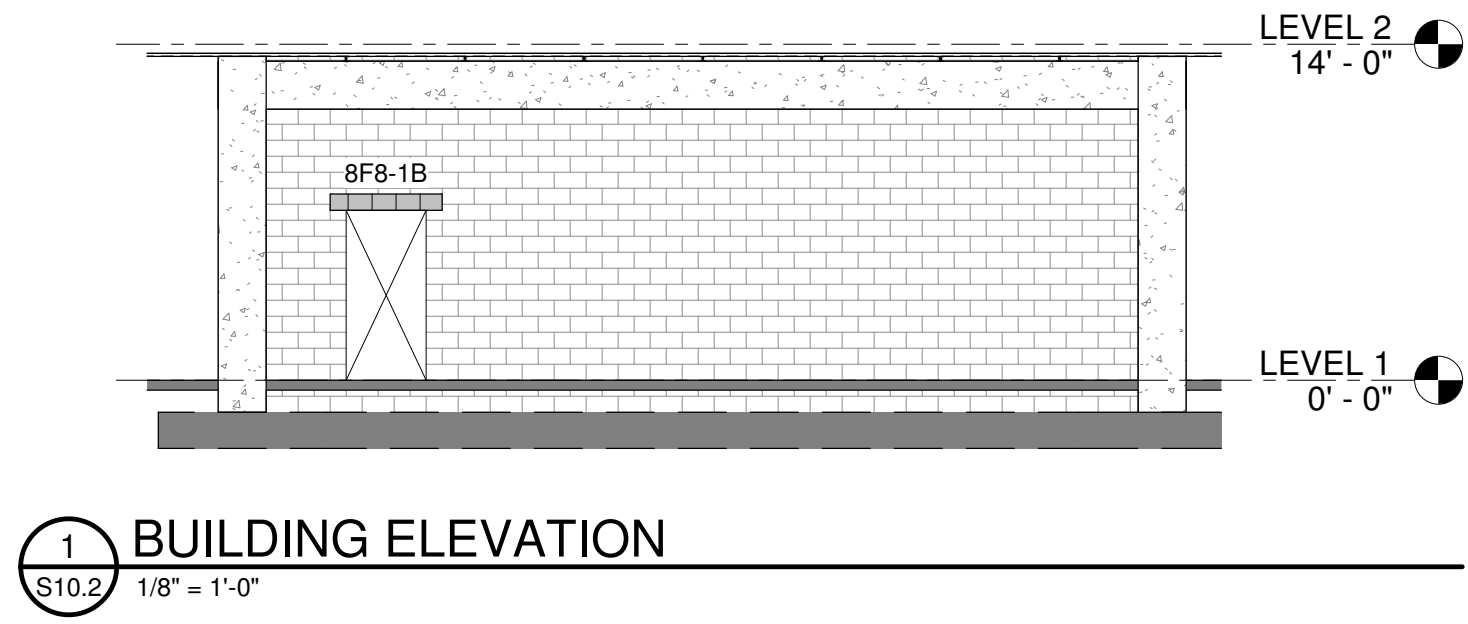
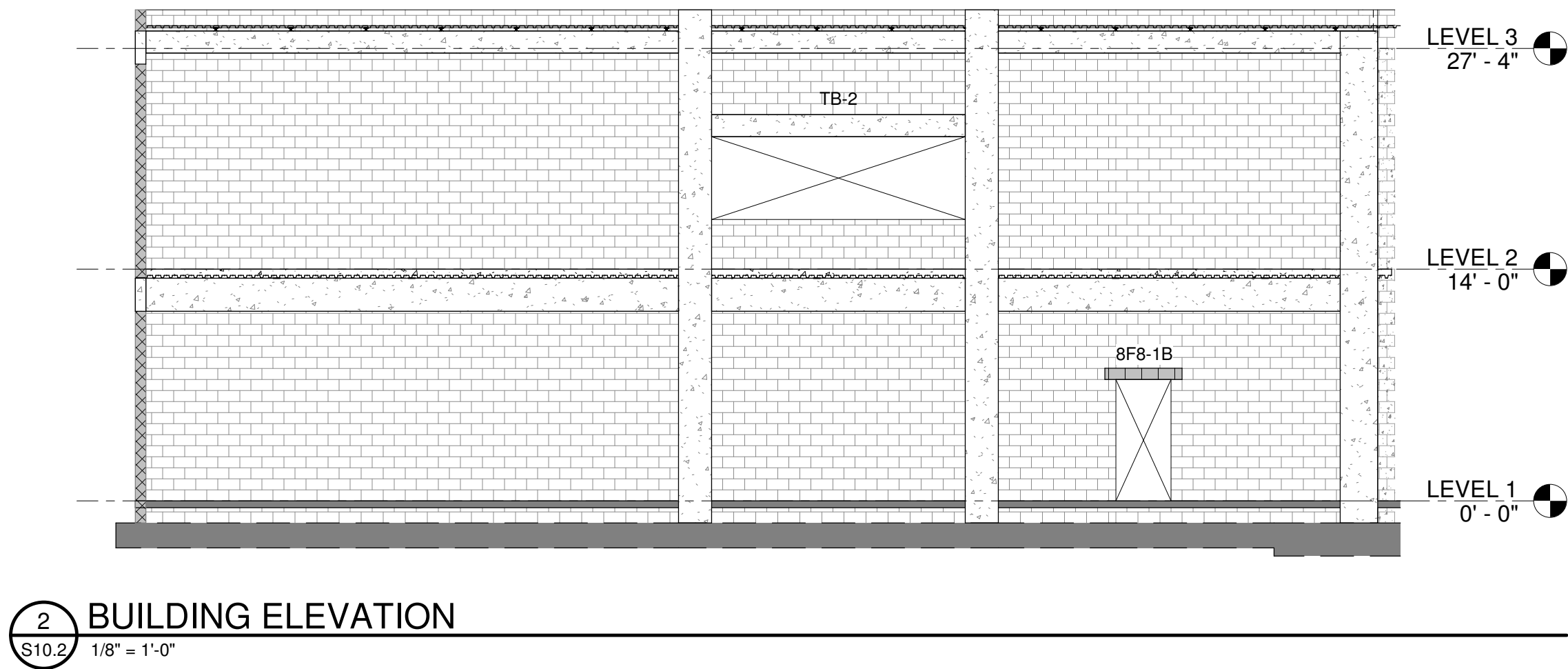
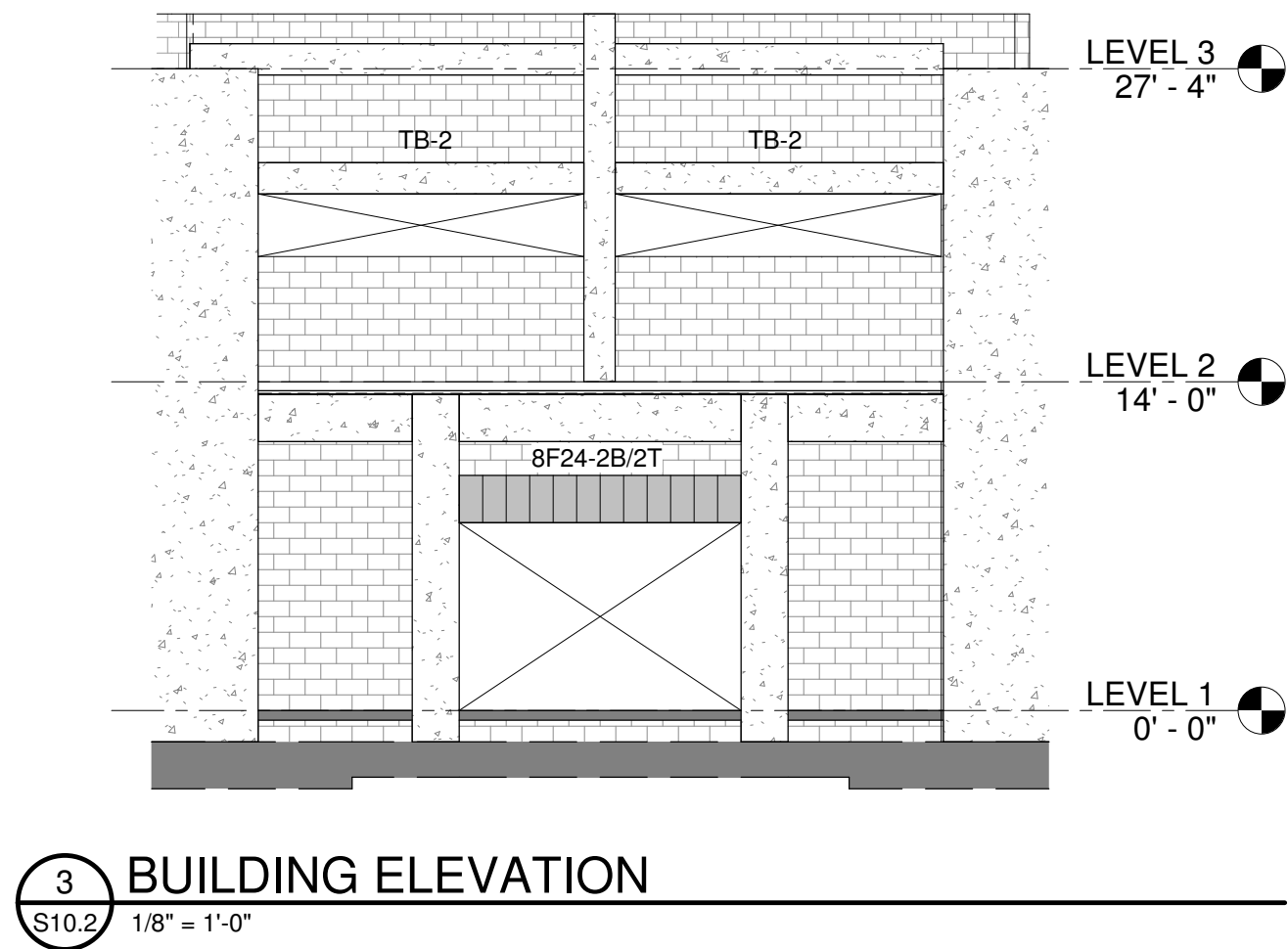
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DRAWING TITLE:

BUILDING ELEVATION -
ADMINISTRATION -
BUILDING 1

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PROJECT:

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DRAWING TITLE:

BUILDING ELEVATION -
AUDETERIA - BUILDING 3

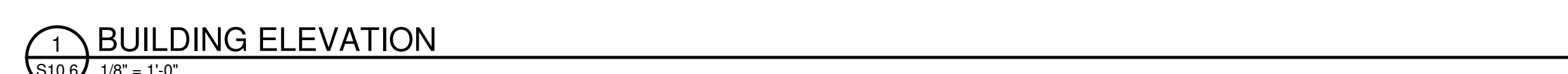
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