

GENERAL NOTES

(UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS)

GENERAL:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND LANDSCAPE DRAWINGS, ALONG WITH SHOP DRAWINGS AND SPECIFICATIONS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND /OR ELEVATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT SCALE THESE DRAWINGS.
- ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- IN CASE OF CONFLICT AMONG CONTRACT DOCUMENTS, THE MORE SPECIFIC AND LOCALIZED INFORMATION IN THE FOLLOWING ASCENDING ORDER SHALL GOVERN: SPECIFICATIONS, NOTES, PLANS, SCHEDULES AND DETAILS.
- WHERE A SECTION / DETAIL IS CUT ON THE PLAN, IT IS ASSUMED TO BE REPRESENTATIVE OF ALL LIKE OR SIMILAR CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK. DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
- ANY DIMENSION NOTED (d) SHALL BE COORDINATED AND VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE SUBMISSION OF SHOP DRAWINGS.
- NO CHANGE IN SIZE OR LOCATION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- OPENINGS 2'-0" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE ARCHITECTURAL AND MEP DRAWINGS FOR SUCH OPENINGS.
- SHOP DRAWINGS FOR REINFORCING STEEL (INCLUDING ALL ACCESSORIES), POUR SCHEDULES, STRUCTURAL STEEL, AND STEEL DECKING SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED ACCEPTANCE RECEIVED BEFORE FABRICATION CAN PROCEED. ERECTION SHALL BE EXECUTED FROM ACCEPTED SHOP DRAWINGS ONLY.
- A COMPLETE SLAB-ON-GRADE PLACEMENT SCHEDULE SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED ACCEPTANCE RECEIVED BEFORE ANY CONCRETE PLACEMENT CAN BE MADE.
- U.O.N. = UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY SHORING AND BRACING FOR THE BUILDING DURING THE ENTIRE CONSTRUCTION PERIOD, AS REQUIRED TO PREVENT DAMAGE TO PERSONS AND PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THAT THE LOADS ARE IMPOSED.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITIONS (UNLESS OTHERWISE NOTED) OF THE FOLLOWING BUILDING CODES AND STANDARDS:
 - A. 700 CMR - THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION
 - B. IBC - THE INTERNATIONAL BUILDING CODE, 2015 EDITION
 - C. AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
 - D. AISC 308 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
 - E. ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE

DESIGN LOADS:

- BUILDING RISK CATEGORY III
- BUILDING CONSTRUCTION CLASSIFICATION TYPE IIA
- ROOF LOADS
 - A. SNOW LOAD
 - GROUND SNOW LOAD $P_g = 35$ PSF
 - EXPOSURE FACTOR $C_e = 1.0$
 - THERMAL FACTOR $C_t = 1.0$ (TYPICAL)
 - SNOW IMPORTANCE FACTOR $I_s = 1.2$ (AT CANOPIES)
 - ROOF SNOW LOAD $P = 35$ PSF PLUS SNOW DRIFT LOAD WHERE APPLICABLE
 - B. ROOFING AND INSULATION 10 PSF
 - C. SERVICES 7 PSF
 - D. CEILING 7 PSF
 - E. ALLOWANCE FOR PV ARRAYS 7 PSF
 - F. MECHANICAL EQUIPMENT 7 PSF
 - G. STRUCTURE ACTUAL MATERIAL WEIGHTS
- BUILDING FLOOR LOADS
 - A. LIVE LOADS 40 PSF + 15 PSF (PARTITIONS)
 - B. CORRIDORS 80 PSF
 - C. LOBBIES, STAIRS, AND FIRST FLOOR CORRIDORS 100 PSF
 - D. MECHANICAL LIBRARIES 100 PSF
 - E. SERVICES 7 PSF
 - F. CEILING 3 PSF
 - G. STRUCTURE ACTUAL MATERIAL WEIGHTS
- SLAB-ON-GRADE LOADS
 - A. LIVE LOADS 100 PSF
 - B. MECHANICAL AREAS 100 PSF
 - C. STRUCTURE ACTUAL MATERIAL WEIGHTS
- SEISMIC LOADS
 - A. SEISMIC IMPORTANCE FACTOR $I_s = 1.25$
 - B. SITE CLASS $D_s = 0.172$ $S_s = 0.065$
 - C. SPECTRAL RESPONSE COEFFICIENTS $S_{ds} = 0.163$ $S_{d1} = 0.104$
 - D. DESIGN RESPONSE COEFFICIENTS $R = 3.0$
 - E. SEISMIC DESIGN CATEGORY I
 - F. ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
 - G. LATERAL FORCE RESISTING SYSTEMS: A STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 - H. RESPONSE MODIFICATION COEFFICIENT $C_s = 3.0$
 - I. SUBSTRUCTURE FACTOR $C_u = 1.0$
 - J. DEFLECTION AMPLIFICATION FACTOR $C_d = 3.0$
 - K. SEISMIC WEIGHT $W = 1,800$ K
 - L. SEISMIC RESPONSE COEFFICIENT $C_s = 0.056$
 - M. DESIGN BASE SHEAR $V = 437$ K
- WIND LOADS
 - A. RISK CATEGORY III
 - B. DESIGN WIND SPEED $V_{50} = 126$ MPH
 - C. EXPOSURE CATEGORY B
 - D. INTERNAL PRESSURE COEFFICIENT $C_{pi} = +0.18$
 - E. COMPONENTS AND CLADDING PRESSURES PER TABLES BELOW:

WALL DESIGN WIND PRESSURE TABLE (BASED ON V_{50})			
EFFECTIVE AREA	INTERIOR ZONES	END ZONES	
10 ft ²	30 PSF	37 PSF	
20 ft ²	29 PSF	34 PSF	
50 ft ²	27 PSF	31 PSF	
100 ft ²	26 PSF	29 PSF	
500 ft ²	23 PSF	23 PSF	
ROOF DESIGN WIND PRESSURE TABLE (BASED ON V_{50})			
EFFECTIVE AREA	INTERIOR ZONES	END ZONES	CORNER ZONES
10 ft ²	30 PSF	50 PSF	76 PSF
20 ft ²	29 PSF	45 PSF	63 PSF
50 ft ²	28 PSF	38 PSF	46 PSF
100 ft ²	28 PSF	33 PSF	33 PSF

- NOTES:**
- $a = 0.1$ x BUILDING LENGTH FOR DETERMINING END ZONES AND CORNER ZONES OF WALLS AND ROOFS
 - DESIGN WIND PRESSURE MAY BE INTERPOLATED FOR EFFECTIVE WIND PRESSURE AREAS BETWEEN THOSE GIVEN. OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA
 - PRESSURES LISTED ABOVE SHALL BE CONSIDERED TO ACT TOWARDS OR AWAY FROM WALL OR ROOF SURFACE
 - PRESSURES SHOWN ARE FOR STRUCTURAL ELEMENTS ONLY. FOR ROOF PRESSURES ON ROOF ASSEMBLIES, THE ASSUMED TRIBUTARY AREA MAY NOT EXCEED 10 SF. SEE ARCHITECTURAL SECTIONS FOR FURTHER INFORMATION
 - FOR ROOF PRESSURES, LOADS ARE ON SEISMIC LOADS TO BETTER CORRELATE WITH ROOFING REQUIREMENTS

- SPECIAL LOADS
 - A. GUARDRAILS / HANDRAILS 200 POUND CONCENTRATED LOAD, OR 50 PLF IN ANY DIRECTION (NOT SIMULTANEOUS)
 - B. ELEVATORS WEIGHT OF MACHINERY AND MOVING LOADS SHALL BE DOUBLED FOR IMPACT
- FUTURE LOADING: THE STRUCTURAL DESIGN DOES NOT INCLUDE ANY PROVISIONS OR ALLOWANCES FOR FUTURE VERTICAL OR HORIZONTAL ADDITIONS.

QUALITY ASSURANCE:

- THE CONTRACTOR WILL EMPLOY AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO PROVIDE QUALITY ASSURANCE TESTING AND INSPECTIONS FOR WORK SPECIFIED IN CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE. THE TESTING AGENCY SHALL BE LICENSED IN MASSACHUSETTS AND ALL TESTING AND INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
- FAILURE OF QUALITY ASSURANCE TESTING AND INSPECTIONS TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS NOTED, NOR SHALL IT OBLIGATE THE OWNER'S REPRESENTATIVE FOR FINAL ACCEPTANCE.
- THE TESTING AGENCY AND ITS REPRESENTATIVES ARE NOT AUTHORIZED TO REVOKe, ALTER, RELAX, ENLARGE OR RELEASE ANY PORTION OF THE WORK, PERFORM ANY DUTIES OF THE CONTRACTOR OR BE A PARTY TO SCHEDULING OF WORK.
- RECORDS OF INSPECTIONS SHALL BE KEPT AVAILABLE TO THE BUILDING OFFICIAL DURING PROGRESS OF THE WORK AND FOR TWO YEARS AFTER COMPLETION OF THE PROJECT. RECORDS SHALL BE PRESERVED BY THE INDEPENDENT TESTING AGENCY.
- SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR QUALITY ASSURANCE TESTING AND INSPECTIONS.

- CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHOP DRAWING SUBMITTAL DATES AT LEAST 30 DAYS PRIOR TO FIRST SUBMITTAL. FAILURE TO SUBMIT DRAWINGS ON DESIGNATED DATE MAY IMPACT REVIEW SCHEDULE.

LIST OF SPECIAL INSPECTIONS:

- CONCRETE:
 - A. CONCRETE MIX
 - B. COMPRESSIVE STRENGTH
 - C. REBAR
 - D. CURING & PROTECTION
- STRUCTURAL STEEL:
 - A. GRADE
 - B. PLACEMENT
 - C. BOLTED AND WELDED CONNECTIONS
- STEEL DECKING:
 - A. GAUGE
 - B. ATTACHMENT TO SUPPORTING MEMBERS
- CONCRETE MASONRY UNITS:
 - A. PRISM TEST
 - B. GROUT
 - C. MORTAR
 - D. REBAR

REINFORCED CONCRETE MASONRY UNITS (CMU):

- ALL REINFORCED CONCRETE MASONRY (CMU) SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF TMS 402/602.
- CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90 AND SHALL BE NORMAL WEIGHT OR LIGHTWEIGHT.
- MORTAR SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270 AND SHALL BE TYPE M OR S.
- GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476. SHALL BE FINE TYPE, AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- ALL REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60, AND SHALL BE DEFORMED.
- CONCRETE UNITS SHALL HAVE AN MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET AREA, UNLESS OTHERWISE INDICATED ON PLAN OR IN SECTIONS.
- THE COMPRESSIVE STRENGTH OF MASONRY ASSEMBLIES SHALL EQUAL OR EXCEED 2000 PSI.
- GROUTING SHALL BE LIMITED TO LIFTS OF 4'-0" PER LIFT.

FOUNDATIONS AND SURGRADE PREPARATION:

- FOR COMPLETE GEOTECHNICAL REQUIREMENTS, REFER TO "GEOTECHNICAL ENGINEERING REPORT, PROPOSED PECK MIDDLE SCHOOL, HOLYOKE, MASSACHUSETTS," PREPARED BY LAHLF GEOTECHNICAL CONSULTING, INC. AND DATED JULY 24, 2023.
- ALL NEW FOUNDATIONS SHALL BEAR DIRECTLY ON A MINIMUM OF 12" OF STRUCTURAL FILL PLACED DIRECTLY OVER THE TOP OF THE NATURAL SAND AND SHALL HAVE AN ALLOWABLE SOIL BEARING PRESSURE OF 3,000 PSF.
- THE ESTIMATED ELEVATION OF THE BOTTOM OF EACH FOOTING IS INDICATED THUS (F) ON PLAN. THE BOTTOM OF EACH EXTERIOR FOOTING AND INTERIOR FOOTINGS BELOW UNHEATED SPACES (BEAM, UTILITY, ETC.) SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT FINISHED GRADE ELEVATION. THE BOTTOM OF EACH INTERIOR FOOTING BELOW HEATED SPACES SHALL BE A MINIMUM OF 2'-0" BELOW THE ADJACENT FINISHED GRADE ELEVATION. ACTUAL FOOTING GRADES MAY BE ALTERED, AS REQUIRED, AT THE REQUEST OF THE CONTRACTOR AND WITH THE APPROVAL OF THE STRUCTURAL ENGINEER IN ORDER TO ACCOMMODATE UTILITY PENETRATIONS THROUGH THE FOUNDATION WALLS.
- UNLESS OTHERWISE NOTED, NO BACKFILL SHALL BE PLACED AGAINST FOUNDATION WALLS RETAINING EARTH UNLESS WALLS ARE SUFFICIENTLY BRACED TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE AND THE SLAB-ON-GRADE IS IN PLACE.
- ORGANIC MATERIALS, EXISTING FILL, BURIED ORGANIC SOIL, BURIED SUBSOIL, ABANDONED UTILITIES, BURIED FOUNDATIONS AND OTHER BELOW-GROUND STRUCTURES SHALL BE ENTIRELY REMOVED FROM WITHIN THE FOOTPRINT OF THE PROPOSED BUILDING AND SITE STRUCTURES, INCLUDING SITE RETAINING WALLS, AND EXTERIOR STAIRS, IF ANY, BEFORE THE START OF FOUNDATION WORK.
- ALL TREE STUMPS, ROOT BALLS, AND ROOTS LARGER THAN 1/2" DIAMETER SHALL BE REMOVED AND CAVITIES FILLED WITH SUITABLE MATERIAL AND COMPACTED IN 6" LOOSE LIFTS TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557).
- ALL EXISTING FILL SHALL BE ENTIRELY REMOVED FROM THE BUILDING FOOTPRINT AND REPLACED WITH STRUCTURAL FILL. SEE THE GEOTECHNICAL REPORT FOR FURTHER REQUIREMENTS.
- FOR TYPICAL SLAB-ON-GRADE CONSTRUCTION, PROVIDE A 15-MI. VAPOR BARRIER OVER A MINIMUM OF 12" OF COMPACTED STRUCTURAL FILL. BASE COURSE PLACED DIRECTLY OVER THE NATURAL SAND AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY (DETERMINED BY ASTM D1557).
- WHERE REQUIRED BENEATH PAVING SLABS OR FOOTINGS, STRUCTURAL FILL SHALL BE COMPACTED IN 6" LAYERS (MAXIMUM) TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY.
- FOR CONSTRUCTION UNDER WETTER CONDITIONS, FOUNDATION AND FLOOR SLABS SHALL BE PROTECTED FROM FREEZING TEMPERATURES UNTIL THE BUILDING IS ENCLOSED AND HEATED.
- THE DESIGN AND EXECUTION OF ALL TEMPORARY EARTH RETENTION SYSTEMS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- NO CONCRETE SHALL BE PLACED IN WATER, ICE, FROST, OR ON FROZEN SURGRADE MATERIAL. PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PREVENT FROST FROM PENETRATING ANY FOOTINGS OR SURGRADE MATERIAL (BEFORE AND AFTER CONCRETE PLACEMENT) UNTIL SUCH SURGRADE MATERIAL IS FULLY PROTECTED BY THE PERMANENT STRUCTURAL SYSTEM.
- FOUNDATIONS SHALL BE CENTERED ON GRID INTERSECTIONS, UNLESS OTHERWISE NOTED ON PLAN.
- FOUNDATION DRAINS ARE REQUIRED BEHIND THE EXTERIOR OF WALLS OF BELOW-GROUND SPACES. PROVIDE 4" DIAMETER PERFORATED PVC PIPES INSTALLED WITH SLOTS FACING DOWN. DRAINS SHALL BE INSTALLED AT THE BOTTOM OF WALLS WRAPPED IN 15' OF CRUSHED STONE BOUND BY A 1/2" THICK FIBRIC.
- FREE DRAIN MATERIAL SHALL BE PLACED WITHIN 3'-0" OF ALL EXTERIOR WALLS OF BELOW-GROUND SPACES.
- THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO OBSERVE ALL SURGRADE PREPARATIONS BELOW ALL FOUNDATIONS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

CONCRETE:

- STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS AND SHALL BE NORMAL WEIGHT, (150 PCF MAXIMUM).
- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 (DEFORMED), AND SHALL BE FREE FROM LOOSE RUST AND SCALE. LAP CONTINUOUS BARS IN ACCORDANCE WITH THE TYPICAL DETAILS ON S202. PROVIDE A GALVANIZED COATING ON REINFORCING BARS INDICATED ON THE STRUCTURAL DRAWINGS.
- ALL WELDED WIRE FABRIC (W.W.F.) SHALL CONFORM TO ASTM A494 WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 60 KSI. LAP JOINTS AND TIE-UPS SHALL CONFORM TO THE TYPICAL DETAILS. PROVIDE A GALVANIZED COATING ON WELDED WIRE FABRIC WHERE INDICATED ON THE STRUCTURAL DRAWINGS.
- CLEAR CONCRETE PROTECTION FOR REINFORCING SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE NOTED:
 - A. FOOTINGS AND OTHER ELEMENTS CAST AGAINST EARTH: 3"
 - B. FOUNDATION WALLS AND OTHER ELEMENTS CAST AGAINST EARTH: 2"
 - C. SLAB-ON-GRADE: 1 1/4" FROM TOP
 - D. COMPOSITE SLAB: 1 1/4" FROM TOP
 - E. PIERS AND PILASTERS: 2" TO TIES
- DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL 315.
- CONCRETE SHALL BE CAST MONOLITHICALLY, EXCEPT AS INDICATED ON THE DRAWINGS.
- ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED (6% ± 1%) AIR ENTRAINMENT VALUE SHALL BE MEASURED AT THE HOSE OUTLET IF CONCRETE IS PUMPED.
- NO BARS SHALL BE CUT OR OMITTED IN THE FIELD BECAUSE OF SLEEVES, DUCT OPENINGS OR RECESSES. BARS MAY BE MOVED ASIDE WITHOUT CHANGING A LEVEL WITH THE APPROVAL OF THE ENGINEER.
- HORIZONTAL CONSTRUCTION JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. ALL VERTICAL CONSTRUCTION JOINTS IN FLOORS SHALL BE LOCATED WITHIN THE SPAN OF THE BEAM. VERTICAL CONSTRUCTION JOINTS IN WALLS, BEAMS AND GIRDER, ALL VERTICAL CONSTRUCTION JOINTS IN GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS.
- THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE COMPLETE LAYOUTS OF ALL CONTROL JOINTS, CONSTRUCTION JOINTS, AND ISOLATION JOINTS FOR SLAB-ON-GRADE AND LAYOUTS OF CONSTRUCTION JOINTS FOR REINFORCED CONCRETE WALLS. THE FOLLOWING GUIDELINES SHALL APPLY:
 - A. MAXIMUM LENGTH OF CONCRETE WALL PLACEMENT BETWEEN CONSTRUCTION JOINTS SHALL BE 40 LINEAR FEET, UNLESS OTHER CONDITIONS ARE PROVIDED TO MEET SAME.
 - B. CONTROL JOINTS SHALL BE CUT AS SOON AS THE CONCRETE IS STIFF ENOUGH TO ALLOW CUTTING. TYPICALLY BETWEEN 4 TO 12 HOURS AFTER PLACEMENT OF CONCRETE (REFER TO ACI 308R FOR FURTHER REQUIREMENTS).
- ALUMINUM CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
- ALL CONDUIT SHALL RUN ABOVE BOTTOM REINFORCING, BELOW TOP REINFORCING, AND INSIDE BEAM STRUTS AND WALL REINFORCING. LINES OF CONDUIT SHALL BE SPACED NOT CLOSER THAN THREE CONDUIT DIAMETERS ON CENTER. MAXIMUM SIZE OF CONDUIT IN SLAB SHALL BE EQUAL TO 1/3 OF THE SLAB OR WALL THICKNESS.
- PIPE PENETRATIONS THROUGH CONCRETE ARE NOT ALLOWED WITHOUT THE PERMISSION OF THE ENGINEER. STEEL PIPE SLEEVES SHALL BE PROVIDED AND SPACED A MINIMUM OF THREE PIPE DIAMETERS APART. ALL OTHER SLEEVE LOCATIONS MUST BE SUBMITTED FOR REVIEW. IN NO CASE SHALL SLEEVES BE PLACED IN CONCRETE BEAMS WITHOUT WRITTEN ACCEPTANCE FROM THE STRUCTURAL ENGINEER.
- SLAB BOLSTERS SHALL BE PROVIDED AT NEW STEEL BEAMS AND AT MID-SPAN BETWEEN NEW BEAMS, AS NOTED ON THE TYPICAL DETAILS ON DRAWING S305.
- SUPPORT BARS FOR SLAB REINFORCING SHALL BE #6 OR GREATER, AND SHALL BE SPACED NOT MORE THAN 4'-0" O.C. SUPPORT BARS AND ENDS OF MAIN REINFORCING BARS SHALL NOT EXTEND MORE THAN 1'-0" PAST THE OUTERMOST CHAIR OR SUPPORT BAR.
- ALL REINFORCING ACCESSORIES FOR EXPOSED SURFACES SHALL HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION. ACCESSORIES FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI STANDARDS.
- A "PLASTIC" "DOUGHNUT" TYPE OF SPACER SHALL BE PROVIDED FOR ALL VERTICAL COLUMN REINFORCING STEEL, IN ORDER TO MAINTAIN MINIMUM CLEARANCE.
- ALL COLUMN DOWELS SHALL BE SET BY TEMPLATE TO ASSURE ACCURATE PLACEMENT.
- ALL DOWELS FOR COLUMN AND WALL REINFORCEMENT SHALL MATCH LAPPING BAR SIZE AND LENGTH, UNLESS OTHERWISE NOTED.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE SIZE AND LOCATION OF ALL CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- ALL KEYS SHALL BE FORMED BY A 2X4 WITH BEVELED SIDES UNLESS OTHERWISE NOTED IN THE TYPICAL DETAILS OR IN SECTIONS.
- SHORING IS NOT REQUIRED BELOW NEW COMPOSITE STEEL DECKING OR BEAMS. HOWEVER, THE CONTRACTOR SHALL ALLOW IN THE BID PRICE FOR ADDITIONAL CONCRETE OVER STEEL DECK DUE TO MINOR DEFLECTIONS OF THE STRUCTURAL STEEL MEMBERS SUPPORTING THE WET WEIGHT OF THE CONCRETE.
- SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS AND WALLS.

STRUCTURAL STEEL FRAMING:

- ALL STRUCTURAL STEEL MATERIALS, WORKMANSHIP, AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF AISC 305-10 AND AISC 360-10. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - A. W-SHAPES, WT-SHAPES: ASTM A992
 - B. SQUARE, RECTANGULAR, ROUND HSS-SHAPES: ASTM A500, GRADE C
 - C. ROUND PIPE SHAPES: ASTM A53, GRADE B
 - D. ANGLES, PLATES (UP TO 4" THICK), CHANNELS: ASTM A36, GRADE 50
 - E. PLATES (GREATER THAN OR EQUAL TO 1" THICK): ASTM A572, GRADE 50
 - F. PLATES (GREATER THAN OR EQUAL TO 1" THICK): ASTM A588 (F_y = 58 KSI)
- ALL STRUCTURAL STEEL BEAMS AND COLUMNS SHALL BE UNPAINTED TO RECEIVE SPRAYED-ON PREPROTECTING MATERIAL, UNLESS OTHERWISE NOTED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS.
- ALL EXPOSED STRUCTURAL STEEL AND THEIR ASSOCIATED CONNECTIONS, INCLUDING ANY CORROSION RESISTANT COATINGS, SHALL BE PROTECTED BY A CORROSION RESISTANT COATING GALVANIZED, REFER TO ARCHITECTURAL DRAWINGS FOR COLOR GALVANIZING REQUIREMENTS.
- WELDED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 "STRUCTURAL WELDING - STEEL" WELDING SHALL UTILIZE E70 SERIES ELECTRODES OR BETTER, EXCEPT WELDING OF MEMBERS CONSISTING OF A515 STEEL (AND ANY OTHER MEMBERS WITH F_y = 65 KSI) SHALL UTILIZE E60 SERIES ELECTRODES, WHERE WELD SIZE AND /OR TYPE IS NOT INDICATED. PROVIDE A MINIMUM OF 1/4" FILLET WELDS ALL AROUND. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL CERTIFICATIONS MUST BE CURRENT (WITHIN 12 MONTHS OF PERFORMANCE OF WELDING).
- BOLTED CONNECTIONS SHALL USE HIGH STRENGTH BOLTS CONFORMING TO THE REQUIREMENTS OF ASTM F3125. CONVENTIONAL OR TWIST-OFF TENSION-CONTROL TYPE BOLTS, UNLESS OTHERWISE NOTED, WHERE NO BOLT SIZE IS INDICATED ON PLAN OR IN SECTIONS, PROVIDE 3/4" BOLTS.
- PROVIDE SHORT-SLOTTED HOLES IN THE WEB OF THE BEAM OR IN THE SHEAR CONNECTIONS AT STEEL-TO-STEEL CONNECTIONS AS INDICATED IN THE TYPICAL DETAILS.
- PROVIDE 1/4" THICK LEVELING PLATE AND 3/4" OF NON-SHRINK GROUT UNDER ALL COLUMN BASE PLATES SUPPORTED ON CONCRETE. LEVELING PLATES SHALL BE SET AND GROUTED SOLD BEFORE ERECTION OF THE COLUMN.
- ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 55 (CONFORMING TO SUPPLEMENT S1). UNLESS OTHERWISE NOTED, ANCHOR RODS SHALL BE THREADED RODS WITH A STANDARD HEX HEAD AND 1/4" FILLET WELDS TO THE ROD, OR STANDARD HEX-HEAD RODS. ANCHOR RODS SHALL BE A MINIMUM OF 10" OR 16" INTO THE PIER / PILASTER OR FOOTING BELOW (SEE COLUMN SCHEDULE AND DETAILS ON DRAWINGS S201 AND S202). SET ANCHOR RODS WITH A TEMPLATE TO ENSURE PROPER POSITIONING.
- SHEAR CONNECTORS AT STEEL BEAMS SHALL BE 3/4" Ø HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. REFER TO PLAN NOTES FOR STUD LENGTHS. THE NUMBER OF EQUALLY SPACED SHEAR STUDS PER BEAM IS INDICATED ON PLAN THUS (N) WHERE STEEL DECK FRAMES PERPENDICULAR TO THE BEAMS. SHEAR CONNECTORS SHALL BE PLACED IN DECK RISERS WHERE THE CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS GIVEN IN THE TYPICAL DETAILS. GENERAL, OR TRIPLED UP TO THE RISERS STARTING AT EACH END OF THE BEAM AND CONTINUING TOWARDS MID-SPAN TO RESULT IN A CONNECTOR DISTRIBUTION ALONG THE BEAM WHICH IS AS UNIFORM AS POSSIBLE. SPACING OF SHEAR CONNECTORS SHALL CONFORM TO THE REQUIREMENTS OF AISC 360, WHERE THE NUMBER OF STUDS IS NOT SHOWN ON PLAN, PROVIDE A MINIMUM OF 3/4" Ø STUDS AT 12" ON CENTER.
- FASTENING OF SHEAR CONNECTORS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF AWS D1.1.
- BEAM CONNECTIONS SHALL BE DESIGNED / SELECTED BY THE STEEL FABRICATOR FOR THE END REACTIONS GIVEN ON PLAN THUS "XXX KIPS" WHERE NO REACTION IS GIVEN ON PLAN, BEAM, BRACE, CALCULATIONS AND DRAWINGS. TO BE REVIEWED BY THE ARCHITECT FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT.
- PROVIDE A COMPLETE LAYOUT OF ALL CONNECTIONS WITH THE STRUCTURAL DESIGN CRITERIA.
- PROVIDE 1/2" THICK (MINIMUM) FULL-HEIGHT FITTED FLAT-PLATE FRAMERS EACH SIDE OF THE BEAM WEB AT ALL LOCATIONS WHERE BEAMS FRAME OVER COLUMNS OR WHERE COLUMNS ARE SUPPORTED ON BEAMS, UNLESS OTHERWISE NOTED.
- AT THE TOP LEVELS OF MOMENT FRAME COLUMNS, PROVIDE A CAP PLATE MATCHING THE FLANGE THICKNESS OF THE THICKEST OF THE MOMENT-CONNECTED BEAMS WELDED TO THE TOP OF THE COLUMN. THE TOP OF THE CAP PLATE SHALL BE SET FLUSH WITH THE TOP OF THE HIGHEST SUPPORTED BEAM.
- AT MOMENT FRAME COLUMNS WHERE THE FLANGE WIDTH OF THE SUPPORTED BEAM EXCEEDS THE FLAT WIDTH OF THE COLUMN FACE, PROVIDE A MINIMUM 3/4" THICK FACE PLATE WELDED TO THE INDICATED FLANGE THE DEPTH AND WIDTH OF THE SUPPORTED BEAM.
- PROVIDE 1/2X1/4" X14 SLIP SUPPORT ANGLES AT COLUMNS WHERE STRUCTURAL MEMBERS DO NOT FRAME INTO ALL FOUR SIDES. REFER TO THE TYPICAL DETAILS FOR ADDITIONAL SLIP SUPPORT DETAILS.
- SPLICING OF STEEL MEMBERS, EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS, IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- FOR STRUCTURAL STEEL BRACED FRAME CONNECTIONS, MOMENT CONNECTIONS, AND SIMPLE BEAM CONNECTIONS, PROVIDE SIGNED AND STAMPED STRUCTURAL CALCULATIONS (BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS) INDICATING THAT THE DETAILS CONNECTIONS COMPLY WITH THE DESIGN LOADS INDICATED ON THE STRUCTURAL DRAWINGS.

STEEL DECKING:

- COMPOSITE STEEL FLOOR DECK UNITS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO THE REQUIREMENTS OF ASTM A633, GRADE 50. STEEL SHEETS SHALL BE COATED WITH A ZINC COATING CONFORMING TO ASTM A653, 55% COATING. STEEL DECK UNITS SHALL BE SUPPLIED WITH INTEGRAL LOCKING LOGS TO PROVIDE A MECHANICAL LOCK BETWEEN THE STEEL DECK AND THE CONCRETE SLAB.
- STEEL ROOF DECK UNITS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A633, GRADE 50. STEEL SHEETS SHALL BE COATED WITH A ZINC COATING CONFORMING TO ASTM A653, 55% COATING.
- STEEL DECK UNITS SHALL BE FASTENED TO STEEL FRAMING BY A 5/8" DIAMETER PUDDLE WELD SPACED AS FOLLOWS:

	FLOOR DECK	1" ROOF DECK	1 1/2" ROOF DECK
PANEL END SUPPORTS	12" ON CENTER	8" ON CENTER	8" ON CENTER
PANEL SIDE SUPPORTS	12" ON CENTER	8" ON CENTER	12" ON CENTER
PANEL INTERIOR SUPPORTS	12" ON CENTER	8" ON CENTER	12" ON CENTER
- STEEL DECKING SIDEPLATS SHALL BE CONNECTED WITH #10 TEK SCREWS AT 30" ON CENTER FOR FLOOR DECKING AND 12" ON CENTER FOR ROOF DECKING. PROVIDE A MINIMUM OF THREE SIDEPLAT FASTENERS PER DECK SPAN.
- THE DECK SUPPLIER SHALL PROVIDE ALL END LIGHT GAUGE FOUR POSTS, DECK CLOSURES, CAPS, SUMP PANS AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE DECKING INSTALLATION.
- STEEL DECK UNITS SHALL SPAN THREE OR MORE SUPPORTS WHEREVER POSSIBLE.
- PROVIDE A COMPLETE LAYOUT OF ALL SHEAR CONNECTORS AT COMPOSITE BEAMS ON THE STEEL DECK SHOP DRAWINGS.
- MECHANICAL, ELECTRICAL, PLUMBING OR CEILING CONSTRUCTION SHALL NOT BE HUNG DIRECTLY FROM THE DECK, EXCEPT UNDER THE FOLLOWING CONDITIONS:
 - A. AT COMPOSITE SLABS ONLY. IT IS ALLOWED TO PLACE NOT MORE THAN ONE HANGER PER DECK SPAN PER RIB, WITH THE HANGER LOAD LIMITED TO 100 POUNDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE USE OF THESE HANGERS BY ALL TRADES. ALL ADDITIONAL ITEMS, INCLUDING ANY ITEMS WHICH WOULD RESULT IN A HANGER LOAD GREATER THAN 100 POUNDS, MUST BE HUNG DIRECTLY FROM STEEL BEAMS.

MISCELLANEOUS METALS AND METAL FABRICATIONS (INCLUDING STAIRS AND RAILINGS):

- ALL STEEL INDICATED ON THESE DRAWINGS BUT NOT SPECIFICALLY SIZED BY LENGTH, WIDTH, THICKNESS, OR WEIGHT SHALL BE PROVIDED UNDER THE WORK OF SPECIFICATIONS SECTION 55.00 (METAL FABRICATIONS), UNLESS SPECIFICALLY CALLED OUT TO BE MISCELLANEOUS METALS.
- SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED, SEALED, AND SUBMITTED TO THE ARCHITECT FOR REVIEW. SHOP DRAWINGS SHALL CLEARLY INDICATE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - A. LOADS IMPOSED ON THE STRUCTURE FROM THE STAIRS AND /OR RAILINGS
 - B. ALL CONNECTIONS FROM THE STAIRS AND /OR RAILINGS TO THE STRUCTURE
 - C. ALL STAIR AND /OR RAILING MEMBER SIZES AND SHAPES
 - D. ALL DIMENSIONS AND CONFIGURATIONS
- ALL CONCRETE INFILLS (WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS) AND LANDINGS SHALL BE CAST WITH NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.

POST-INSTALLED ANCHORS:

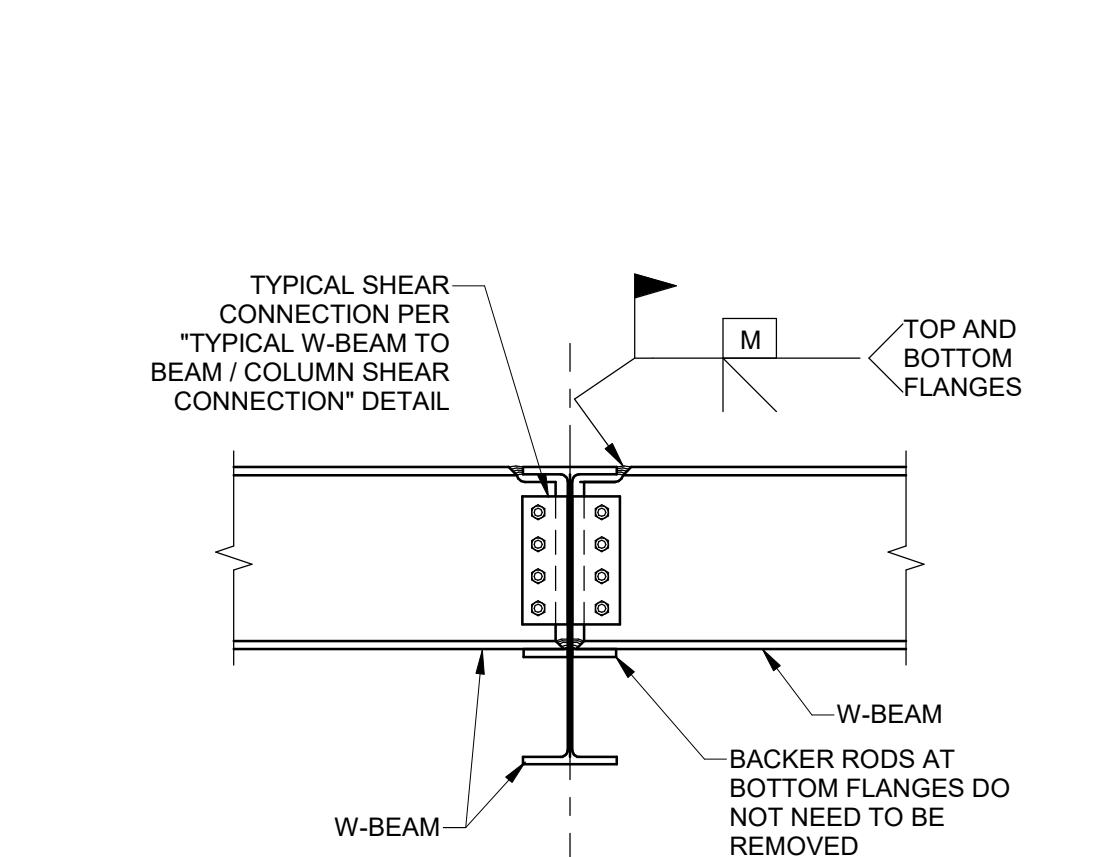
- EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. (OR APPROVED EQUIV.):
 - A. FOR ANCHORAGE TO CONCRETE WITH ADHESIVE ANCHORS, USE THE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CO OR TE-YO) WITH HAS-E-SS THREADED RODS (SEE NOTE #2 BELOW PER ICC ESR-1467).
 - B. FOR ANCHORAGE TO REINFORCING BARS TO CONCRETE, USE THE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CO OR TE-YO) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-1467.
 - C. FOR ANCHORAGE TO SOLID GROUTED MASONRY WITH ADHESIVE ANCHORS, USE THE HILTI HIT-HYBRIID ADHESIVE FOR MASONRY WITH HILTI HOLLOW DRILL BIT (TE-CO OR TE-YO) WITH HAS-E-SS THREADED RODS (SEE NOTE #2 BELOW PER ICC ESR-2602).
 - D. FOR ANCHORAGE TO CONCRETE OR SOLID GROUTED MASONRY WITH EXPANSION ANCHORS, USE THE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CO OR TE-YO) WITH HAS-E-SS THREADED RODS (SEE NOTE #2 BELOW PER ICC ESR-2602).
- UNLESS OTHERWISE NOTED, THREADED ROD ANCHORS SHALL CONFORM TO HAS-E STANDARD IS 898 CLASS 5.8.
- ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGES OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH THE SPACING AND EDGE CLEARANCE INDICATED ON THESE DRAWINGS.
- DESIGN ANCHOR CAPACITIES ARE BASED ON THE TECHNICAL DATA PROVIDED BY HILTI OR OTHER SUCH METHODS AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION OF ANCHORS FOR ALTERNATE ANCHOR TYPES MAY BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. THE CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS MUST HAVE COMPREHENSIVE INSTALLATION INSTRUCTIONS AND AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODES FOR SEISMIC USE, LOAD RESISTANCE, AND INSTALLATION CATEGORY. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, AND INSTALLATION TEMPERATURE.
- INSTALL ALL ANCHORS PER THE MANUFACTURER'S INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
- THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- FOR PROJECTS MEETING IBC 2012 OR LATER, ACI0308 ADHESIVE ANCHOR INSTALLER CERTIFICATION IS REQUIRED FOR ALL INSTALLERS OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATION. THE HILTI-ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM (HAIICP) IS AN APPROVED EQUIVALENT.
- EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. NO EXISTING BARS MAY BE CUT OR REMOVED TO INSTALL ANCHORS. ADDITIONALLY, AND UNLESS EXACT LOCATIONS OF ALL EXISTING REINFORCEMENT IS LOCATED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND REMOVING ALL EXISTING REINFORCEMENT. PROHIBITED: CONTRACTOR MAY RELOCATE ANCHORS TO AVOID EXISTING REINFORCEMENT PROVIDED MAXIMUM SPACING AND EDGE CLEARANCE DISTANCES ARE MAINTAINED.

COLD-FORMED METAL FRAMING:

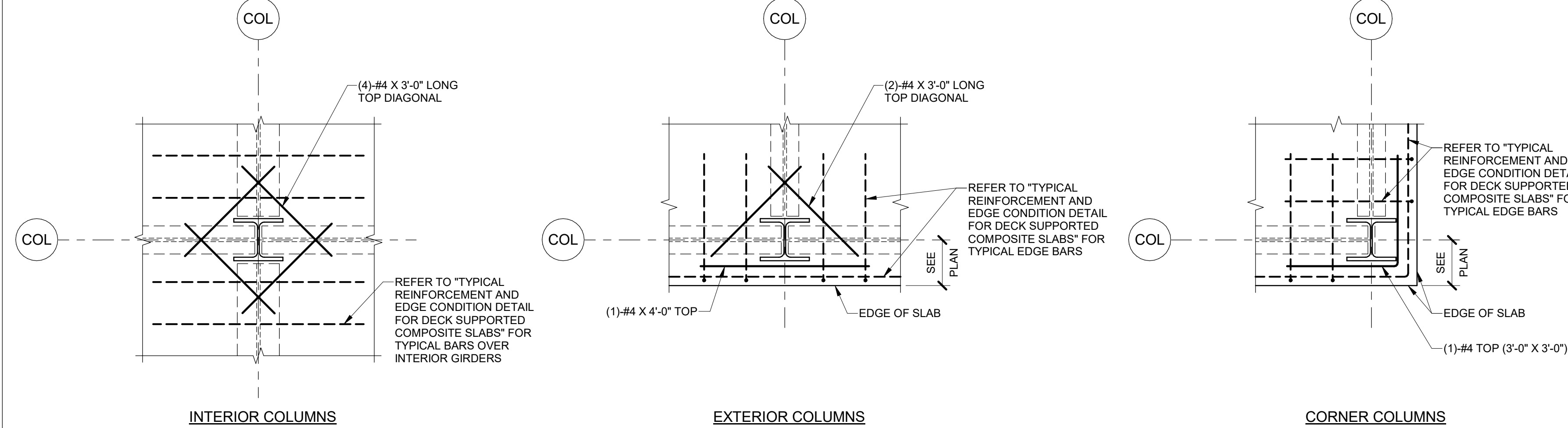
- THE CONTRACTOR SHALL SUBMIT THE FOLLOWING:
 - A. SHOP DRAWINGS FOR ALL COMPONENTS AND INSTALLATIONS NOT FULLY DIMENSIONED OR DETAILED IN THE MANUFACTURER'S PRODUCT DATA
 - B. CALCULATIONS AND DRAWINGS: TO BE REVIEWED BY THE ARCHITECT FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT
 - C. PRODUCT CATALOG WITH PROPERTIES AND DATA OF ALL STUDS
- SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE COMMONWEALTH OF MASSACHUSETTS. CALCULATIONS AND DRAWINGS WILL BE REVIEWED BY THE ARCHITECT FOR GENERAL COMPLIANCE WITH DESIGN INTENT AND BY THE STRUCTURAL ENGINEER OF RECORD FOR COMPLIANCE WITH THE STRUCTURAL DESIGN CRITERIA.
- 12'-, 14'-, AND 16-GAUGE STUDS, TRACKS, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL CORRESPONDING TO ASTM A1003, GRADE D, MINIMUM YIELD = 50 KSI.
- 18- AND 20-GAUGE STUDS, TRACKS, BRIDGING, END CLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL CORRESPONDING TO ASTM A1003, GRADE D, MINIMUM YIELD = 33 KSI.
- ALL STUDS AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A HOT-DIPPED GALVANIZED COATING MEETING ASTM A653 AND C80.
- THE FOLLOWING INSTALLATION PROCEDURES SHALL BE MAINTAINED:
 - A. TRACKS: INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS ALONG TRACKS ACCURATELY TO 1/8" AT BASE AND TOP OF STUDS. SECURE TRACKS WITH 1/2" X 1/4" SCREWS RECOMMENDED BY THE STUD MANUFACTURER. EXCEPT DO NOT EXCEED 16" ON CENTER. PROVIDE FASTENERS AT CORNERS AND END OF TRACKS.
 - B. WALL STUDS: SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENING AT BOTH INSIDE AND OUTSIDE FLANGES. ATTACH STUDS WITH SLIP CONNECTION TO UNDERSIDE OF BEAMS AND /OR DECK ABOVE TO ALLOW 3/4" VERTICAL DEFLECTION OF BEAM.
 - C. PROVISIONAL FRAMING: PROVIDE BLOCKING AND BRACING IN METAL FRAMING SYSTEM WHEREVER WALL OR PARTITIONS ARE INDICATED TO SUPPORT FIXTURES, EQUIPMENT, AND INDUSTRY STANDARDS IN EACH CASE, CONSIDERING WEIGHT OR LOADING RESULTING FROM ITEM SUPPORTED.
 - D. WALL OPENINGS: OPENINGS LARGER THAN 2'-0" SQUARE SHALL BE FRAMED WITH DOUBLE STUDS AT EACH JAMB OR FRAME, EXCEPT WHERE MORE THAN TWO ARE REQUIRED, OR WHERE HEAVY DUTY STUDS ARE PROVIDED.
- FOR ALL MEMBERS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO SUPPORTING MEMBERS.
- METAL STUDS SHALL BE DESIGNED PER THE "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" FOR ALL APPLICABLE LOADS PER THE 2015 INTERNATIONAL BUILDING CODE AND ANY IMPOSED LOADS FROM MECHANICAL EQUIPMENT.

SHOP DRAWINGS:

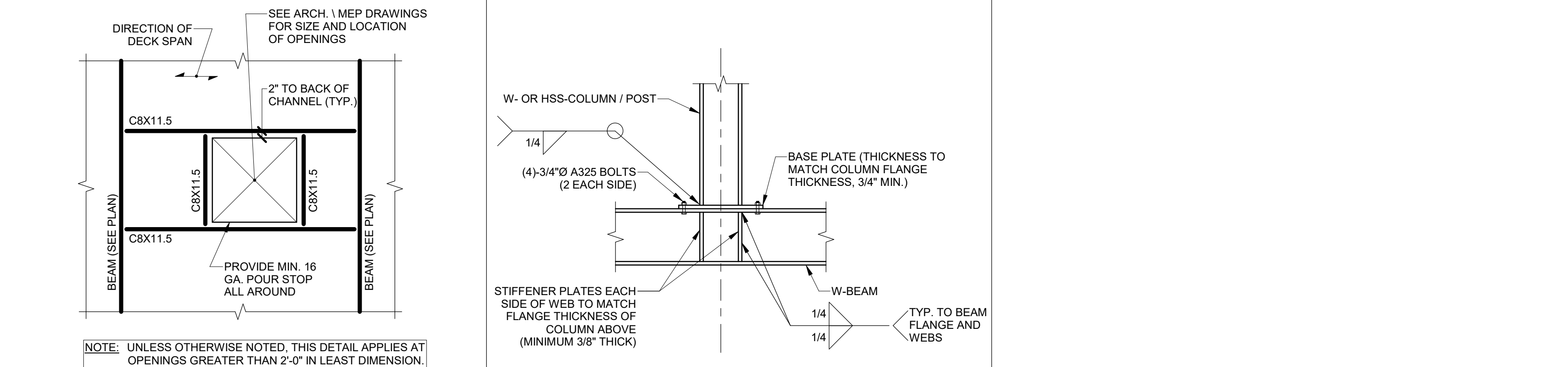
- SHOP DRAWINGS ARE DRAWINGS, DIAGRAMS, SCHEDULES, MATERIAL LISTS AND OTHER DATA SPECIFICALLY PREPARED FOR THE WORK FOR THE GENERAL CONTRACTOR OR ANY SUBCONTRACTOR, MANUFACTURER, SUPPLIER OR DISTRIBUTOR TO ILLUSTRATE SOME PORTION OF THE WORK. CONTRACT DRAWINGS ARE NOT TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- WHEN APPLICABLE, SHOP DRAWINGS SHALL INCLUDE, BUT NOT BE LIMITED TO: ERECTION PLANS, NOTES AND BRACING DETAILS, ACCESSORIES, CONNECTION DETAILS, JOINT, BEAM AND COLUMN DETAILS, BRACING DETAILS FOR REINFORCING RODS, AND ANY OTHER ITEMS WHICH ARE TYPICAL OF INDUSTRY STANDARD FOR SHOP DRAWING SUBMITTALS. SUBMIT STAMPED SUBMITTALS, CALCULATIONS WHERE NOTED ABOVE.
- NO PORTION OF THE WORK REQUIRING SUBMISSION OF A SHOP DRAWING SHALL BE STARTED UNTIL THE SUBMITTAL HAS BEEN SATISFACTORILY REVIEWED BY SOUZA, TRUE AND PARTNERS (STP) AND ALL OTHER PARTIES INVOLVED. ALL SUCH WORK SHALL BE IN ACCORDANCE WITH FINAL REVIEWED SUBMITTALS AND THE CONTRACT DOCUMENTS.
- ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY, UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS. UNLESS OTHERWISE NOTED IN THE CONTRACT SPECIFICATIONS, THE FOLLOWING SEQUENCE SHALL BE FOLLOWED: MANUFACTURER / CONTRACTOR / ARCHITECT / ENGINEER / ARCHITECT / CONTRACTOR / MANUFACTURER.
- THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT ALL SHOP DRAWINGS REQUIRED BY THE CONTRACT DOCUMENTS IN AN ORDER WHICH IS SEQUENTIAL WITH THE PROGRESS OF THE WORK AND CONSISTANT WITH THE LEAD TIMES RELATED TO THE PRODUCTS. THE SHOP DRAWING SUBMITTAL SCHEDULE SHALL INCLUDE ADEQUATE TIME FOR A COMPLETE AND PROFESSIONAL REVIEW BY ALL PARTIES INVOLVED. IT SHALL BE NOTED THAT THE REVIEW TIME WILL VARY DEPENDING ON THE SIZE AND CONTENT OF THE SUBMITTAL. BY APPROVING AND SUBMITTING SHOP DRAWINGS,



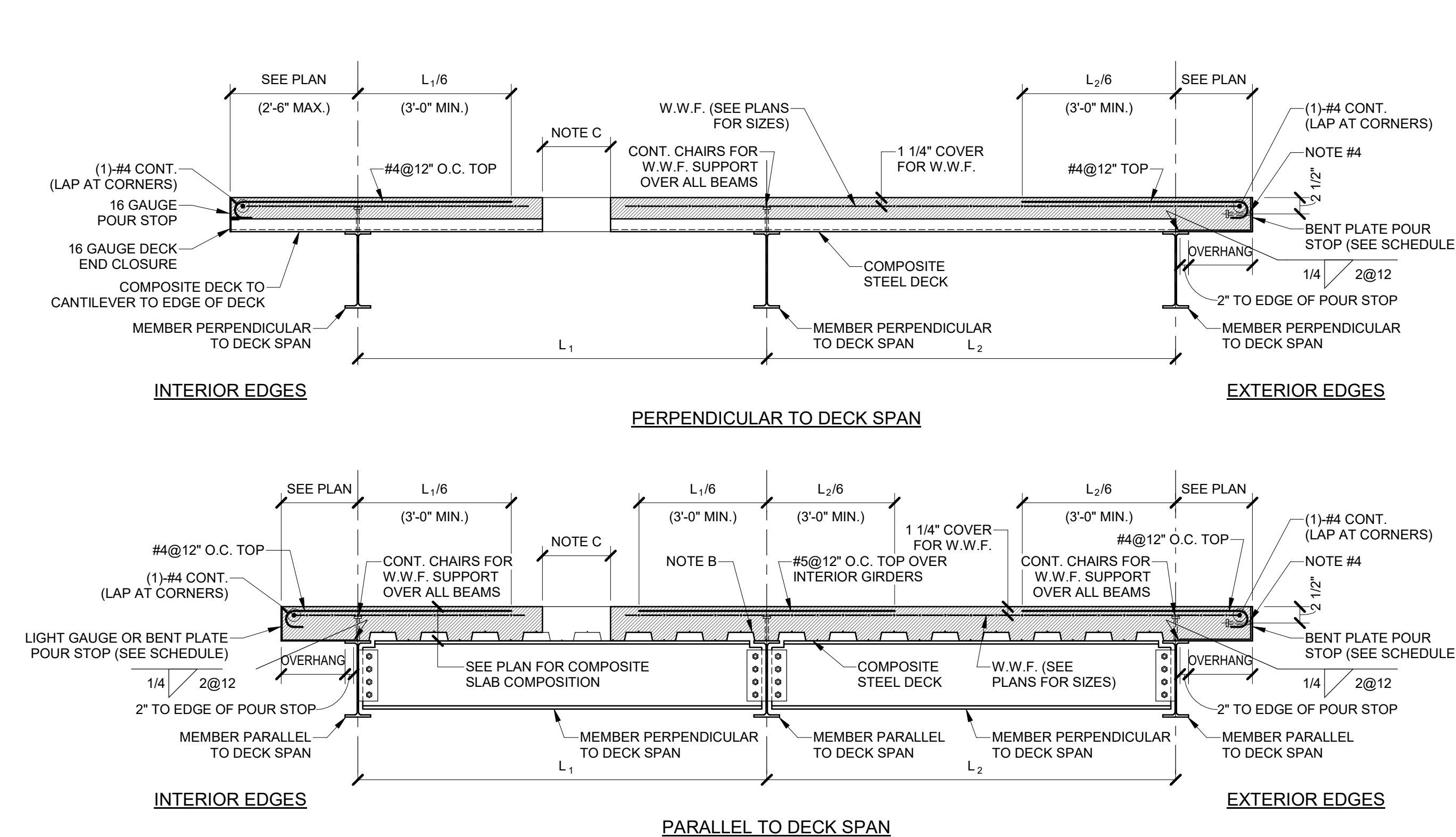
③ TYPICAL BEAM TO GIRDER MOMENT CONNECTION DETAIL



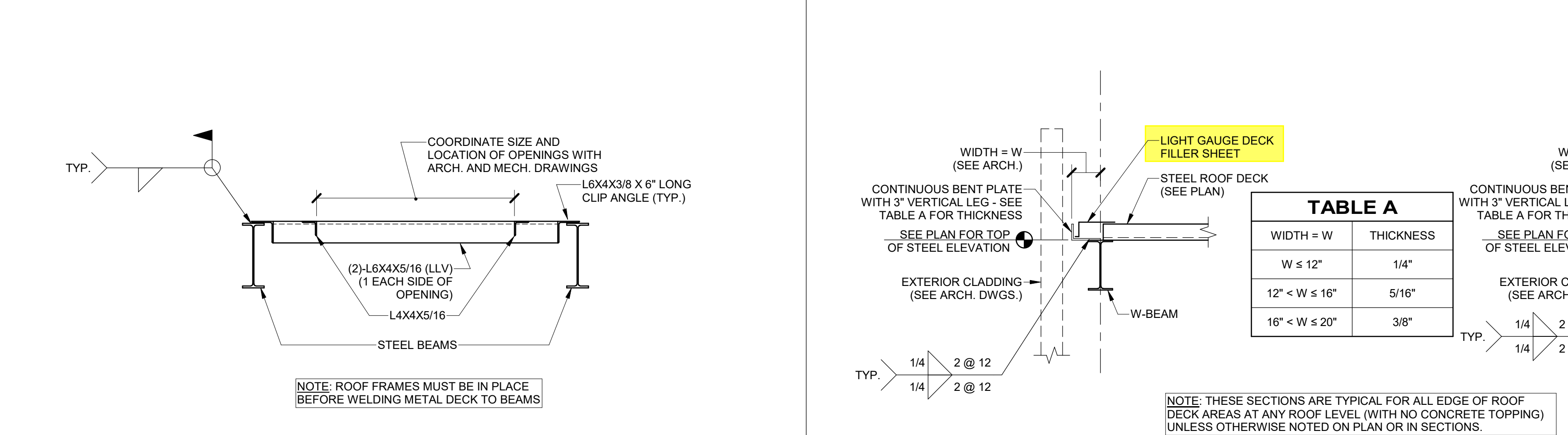
**6 TYPICAL HOUSEKEEPING PAD DETAIL
FOR SLABS ON METAL DECK**



**10 TYPICAL DETAIL AT COLUMN
SUPPORTED ON BEAM**



12 TYPICAL REINFORCEMENT AND EDGE CONDITION DETAIL FOR COMPOSITE SLABS-ON-DECK



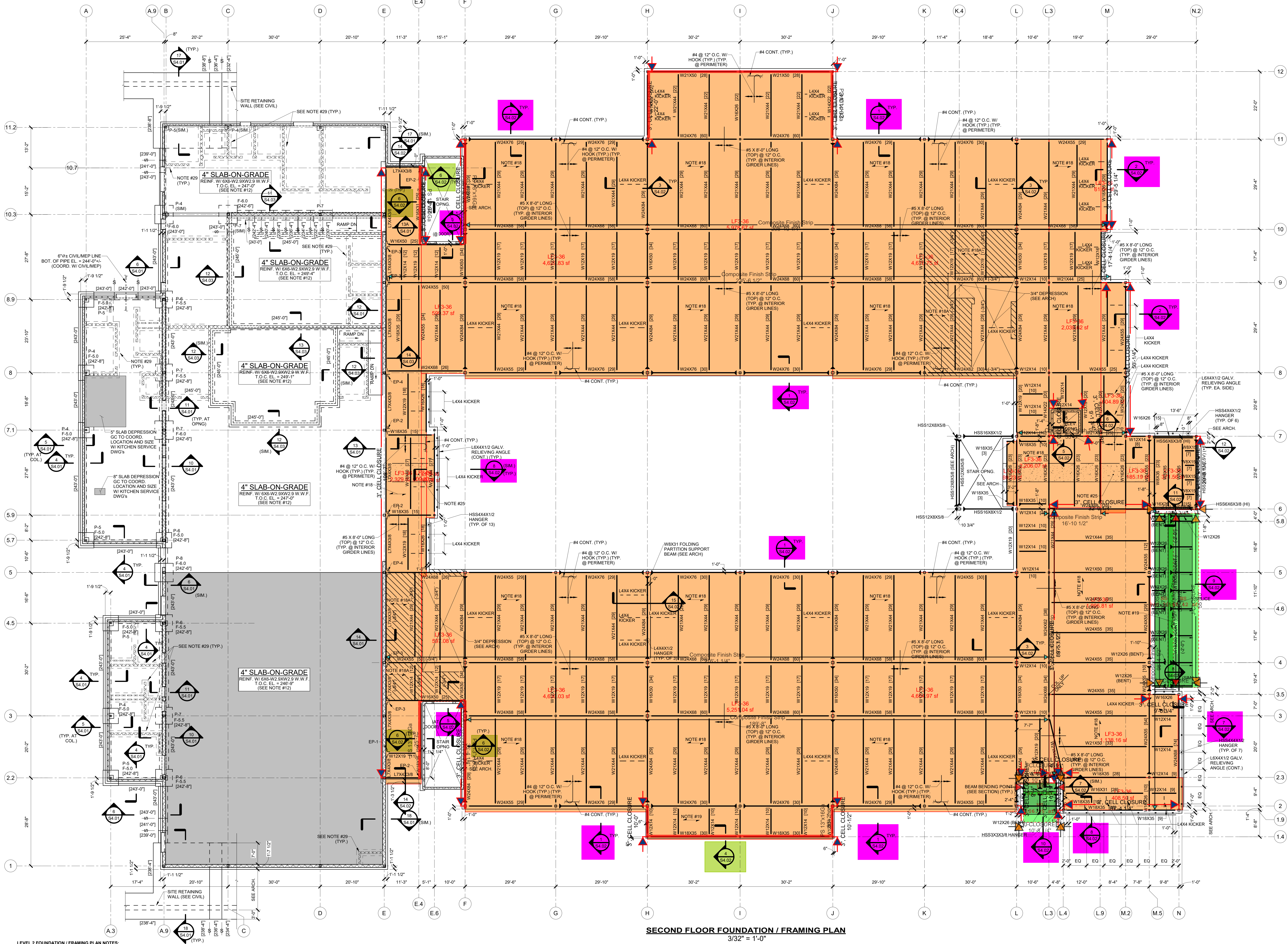
TYPICAL LOOSE STEEL LINTEL SCHEDULE	
MASONRY OPENING	LINTEL SIZE
UP TO 3'-0"	L3 12X3 1/2X5/16
3'-1" TO 4'-6"	L4X3 1/2X5/16 (4" LEG VERTICAL)
4'-7" TO 6'-0"	L5X3 1/2X5/16 (5" LEG VERTICAL)
6'-1" TO 8'-0"	L6X3 1/2X5/16 (6" LEG VERTICAL)
8'-1" TO 10'-0"	L7X4X3/8 (7" LEG VERTICAL)

NOTES:

1. PROVIDE LINTELS OVER ALL OPENINGS EXCEPT WHERE LINTEL BLOCKS ARE PROVIDED.
2. PROVIDE ONE LEG FOR EACH 4" OF BUILT UP THICKNESS FOR 6" WALLS OR BUILT UP SECTION WITH PROPERTIES (S_y, Z_x) EQUAL TO OR GREATER THAN 1 TIMES ANGLE PROPERTIES FOR 4" WALL THICKNESS.
3. PROVIDE 6" OF BEARING AT EACH END OF ALL LINTELS.
4. PROVIDE GALVANIZED STEEL AT ALL EXTERIOR WALLS.

**15 TYPICAL LOOSE STEEL
LINTEL SCHEDULE**





SECOND FLOOR FOUNDATION / FRAMING PLAN
3/32" = 1'-0"

LEVEL 2 FOUNDATION / FRAMING PLAN NOTES:

- FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 3000 PSF. REFER TO FOUNDATION AND SUBGRADE PREPARATION NOTES ON DRAWING S3.01 FOR ADDITIONAL INFORMATION.
- SECOND FLOOR TOP OF STEEL EL. = 246'-5 1/2"
SECOND FLOOR TOP OF CONCRETE = 247'-0"
SEE ARCH FOR TOP OF STEEL ELEVATIONS FOR ALL LOW AND SLOPED ROOFS.
- REFER TO DRAWINGS S3.01 AND S3.02 FOR COLUMN SCHEDULE AND DETAILS.
- REFER TO DRAWINGS S3.01 THROUGH S3.04 FOR GENERAL NOTES AND TYPICAL DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND / OR ELEVATIONS NOT SHOWN.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZES AND LOCATIONS OF ALL FLOOR / ROOF OPENINGS (MECHANICAL OR OTHERWISE) NOT SPECIFICALLY LOCATED ON THESE DRAWINGS. SEE DRAWING S3.03 FOR TYPICAL FRAMING DETAILS.
- [0'-0"] INDICATES A BOTTOM OF FOOTING OR MAT ELEVATION. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW EXTERIOR FINISHED GRADE UNLESS OTHERWISE NOTED ON PLAN OR IN SECTION. TOP OF ALL INTERIOR FOOTINGS SHALL BE 1'-0" BELOW TOP OF SLAB UNLESS OTHERWISE NOTED IN PLAN OR IN SECTION. REFER TO FOUNDATION NOTES ON DRAWING S3.01 FOR ADDITIONAL INFORMATION.
- F-0.0 INDICATES A SPREAD FOOTING TYPE. REFER TO SCHEDULE ON THIS SHEET FOR SIZE AND REINFORCEMENT.
- P-0.0 INDICATES A PIER OR PLASTER TYPE. REFER TO DWG. S3.02 FOR PIER PLASTER SCHEDULE.
- COORDINATE ALL SLOTS, INSERTS, DOWELS, SLEEVES, PADS ETC., AND ALL ANCHORS PRIOR TO PLACING CONCRETE.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL TEMPORARY SHORING AND BRACING, AND TEMPORARY EARTH RETENTION SYSTEMS, DURING THE ENTIRE CONSTRUCTION PERIOD AS REQUIRED, TO PREVENT DAMAGE TO PERSONS OR PROPERTY.
- UNLESS OTHERWISE NOTED, CONCRETE SLABS ON GRADE SHALL BE OF THE MINIMUM THICKNESS INDICATED, REINFORCED WITH #6-W2 30W2.9 WELDED WIRE FABRIC SET 1 1/4" CLEAR FROM THE TOP OF SLAB. REFER TO PROJECT MANUAL (SPECIFICATIONS) AND GEOTECHNICAL REPORT FOR FILL MATERIAL AND COMPACTION REQUIREMENTS. DEPRESSURED SLAB AREAS SHALL MAINTAIN THE SLAB THICKNESS INDICATED.
- T.O.C. ELEVATIONS SHALL BE AS NOTED ON PLAN. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB ELEVATIONS, SLOPES, CURBS, PADS, OPENINGS, AND DEPRESSIONS NOT SHOWN. COORDINATE PRIOR TO SHOP DRAWINGS SUBMITTAL.
- CONSTRUCTION JOINTS IN ALL CONCRETE FOUNDATION WALLS SHALL NOT EXCEED 40 LINEAR FEET. UNLESS CONTROL JOINTS ARE PROVIDED TO MEET SAME.
- C.J. INDICATES A SAW CUT CONSTRUCTION / CONTROL JOINT IN THE CONCRETE SLAB-ON-GRADE. TYPICAL LOCATIONS ARE SHOWN. A FINAL LAYOUT OF THE MOMENT DEVELOPED FULL MOMENT CAPACITY OF THE BEAM. SEE TYPICAL DETAILS.
- USE THE FOLLOWING RULES:
 - TOTAL AREA OF CONCRETE BETWEEN CONTROL JOINTS SHALL NOT EXCEED 225 SQUARE FEET.
 - MAXIMUM DISTANCE BETWEEN CONTROL JOINTS SHALL NOT EXCEED 15'-0".
 - ASPECT RATIO OF CONCRETE BETWEEN CONTROL JOINTS SHALL NOT EXCEED 1.5:1.0.
 - PROVIDE A CONTROL JOINT AT ALL REINFORCED CORNERS.
 - PROVIDE ADDITIONAL REINFORCEMENTS AT ALL CONSTRUCTION JOINTS AS REQUIRED.

- INDICATES A STEP IN FOOTING. REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCING AS REQUIRED AT STEPS.
- PROVIDE A DIAMOND SHAPED ISOLATION JOINT IN THE SLAB-ON-GRADE AT ALL INTERIOR COLUMNS PER THE "TYPICAL INTERIOR COLUMN BASE DETAIL" SHOWN ON SHEET S3.02.
- INDICATES THE SPAN DIRECTION OF 3 1/2" THICK N.W. CONCRETE ON 3" DP X 18" GA. GALV. COMPOSITE STEEL FLOOR DECKING (6 1/2" OVERALL). REINFORCE SLAB WITH #6-W2 30W2.9 W.W.F. LOCATE 1" BELOW TOP OF SLAB. --- INDICATES THE SPAN DIRECTION OF 3" DP X 18" GA. GALV. STEEL WIDE RB ROOF DECKING. --- INDICATES EXTENTS OF ROOF DECK.
- INDICATES THE DIRECTION OF DOWNWARD SLOPE OF A STRUCTURAL MEMBER.
- INDICATES A FIELD WELDED MOMENT CONNECTION BETWEEN BEAM AND COLUMN (UNLESS OTHERWISE NOTED ON PLAN OR IN SECTION). THE MOMENT CONNECTION SHALL BE DESIGNED AND DETAIL BY THE STEEL FABRICATOR TO DEVELOP THE FULL MOMENT CAPACITY OF THE BEAM. SEE TYPICAL DETAILS.
- COORDINATE ROOF OPENING SIZES AND LOCATIONS WITH EQUIPMENT MANUFACTURER AND MEP DRAWINGS. SEE TYPICAL DETAILS FOR FRAMING REQUIREMENTS.

- "V-XXX" INDICATES THE STEEL FABRICATOR IS TO DESIGN THE CONNECTION TO HAVE THE MINIMUM LISTED SHEAR CAPACITY IF NO VALUE IS LISTED, THE CONNECTION CAPACITY SHALL CONFORM TO THE TYPICAL BEAM TO BEAM SINGLE PLATE CONNECTION DETAIL SHOWN ON SHEET S3.03.
- [00] INDICATES THE NUMBER OF 3/4" X 8' LONG HEADED STUDS LOCATED ALONG THE MEMBER LENGTH. FOR EXACT SPACING ALONG THE MEMBER LENGTH, REFER TO TYPICAL SHEAR CONNECTOR DISTRIBUTION DETAILS ON TYPICAL DETAIL SHEETS.
- INDICATES A SLAB IS A "LEAVE OUR POUR STRIP ZONE". THIS PORTION OF THE SLAB SHALL BE CAST AT LEAST 14 (MIN.) DAYS AFTER THE SLAB NORTH AND SOUTH OF THE POUR IS CAST TO ALLOW POTENTIAL SHRINKAGE OF THE CONCRETE SLABS. POUR STRIP SHALL BE 6'-0" WIDE AND CENTERED IN THE BAY. REINFORCEMENT IN THE SLAB SHALL BE CONTINUOUS THROUGH THE POUR STRIP.
- INDICATES STRUCTURAL CMU WALL. SEE TYPICAL DETAILS SHEETS FOR ELEVATIONS AND DETAILS. SEE ARCH. FOR EXACT LOCATIONS.
- INDICATES NON-STRUCTURAL CMU PARTITION WALL. SEE TYPICAL DETAILS SHEETS FOR TYPICAL DETAILS. SEE ARCH. FOR EXACT LOCATIONS.
- INDICATES AN EMBEDDED PLATE CONNECTION. REFER TO THE "TYPICAL EMBED PLATE DETAIL AND CONNECTION SCHEDULE" ON SHEET S3.03.
- PROVIDE A 12" THICKENED SLAB UNDER ALL INTERIOR CMU WALLS PER 4 / S3.04 UNLESS OTHERWISE NOTED (COORDINATE WITH ARCH DRAWINGS FOR EXACT LOCATIONS).

SPREAD FOOTING SCHEDULE

BASED ON A PRESUMED ALLOWABLE SOIL BEARING PRESSURE OF 3 KSF

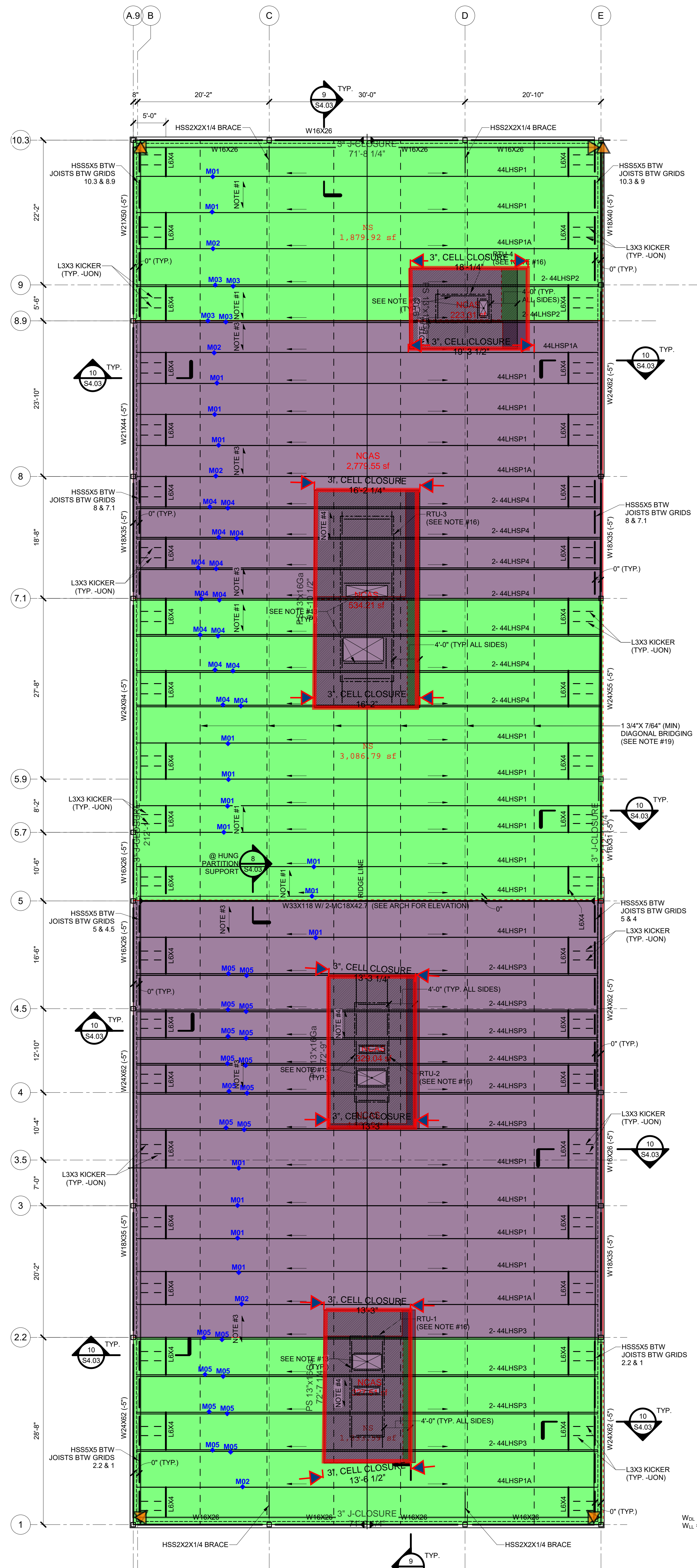
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	REMARKS
F-4.5	4'-6"	4'-6"	1'-4"	5-#5 EA WAY (BOTT. EA. WAY)	
F-5.0	5'-0"	5'-0"	1'-4"	6-#5 EA WAY (BOTT. EA. WAY)	
F-5.5	5'-6"	5'-6"	1'-4"	6-#5 EA WAY (BOTT. EA. WAY)	
F-6.0	6'-0"	6'-0"	1'-6"	7-#6 EA WAY (BOTT. EA. WAY)	
F-6.5	6'-6"	6'-6"	1'-6"	7-#6 EA WAY (BOTT. EA. WAY)	
F-7.0	7'-0"	7'-0"	1'-8"	8-#6 EA WAY (BOTT. EA. WAY)	
F-7.5	7'-6"	7'-6"	1'-8"	8-#6 EA WAY (BOTT. EA. WAY)	
F-8.0	8'-0"	8'-0"	1'-10"	9-#7 EA WAY (BOTT. EA. WAY)	
F-8.5	8'-6"	8'-6"	1'-10"	9-#7 EA WAY (BOTT. EA. WAY)	
F-SP	8" WIDER THAN PIER ON ALL SIDES X 12" THICK			#5 @ 12" O.C. EA WAY (BOTT.)	

1.

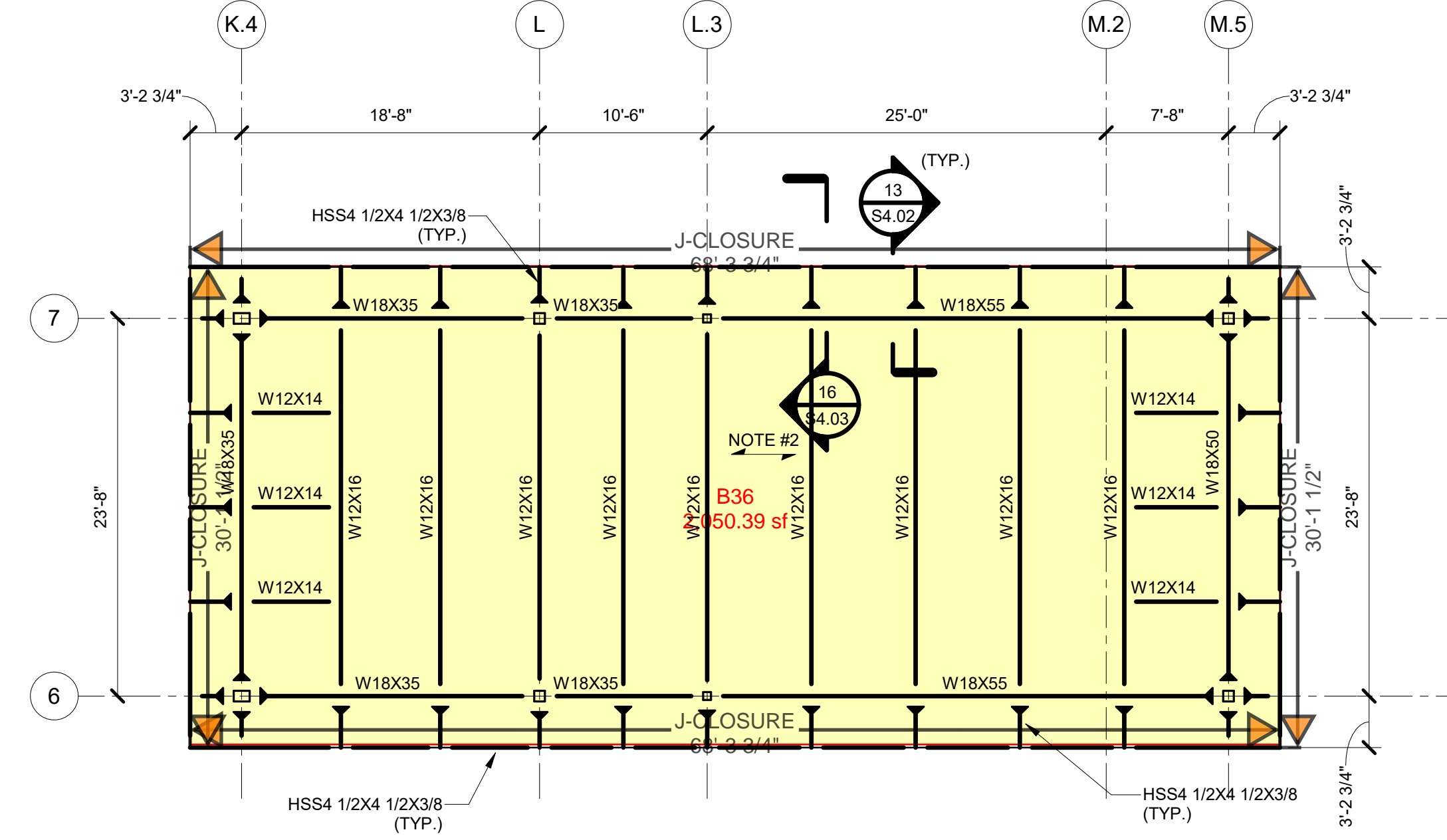
Exclusions:

Shear Studs, Hanger Tabs, Flexible Rubber Closure
Architectural drawing, MEP drawing.
Material for frames @ openings
Sump pans.
Loading & Special web geometry for Duct line.

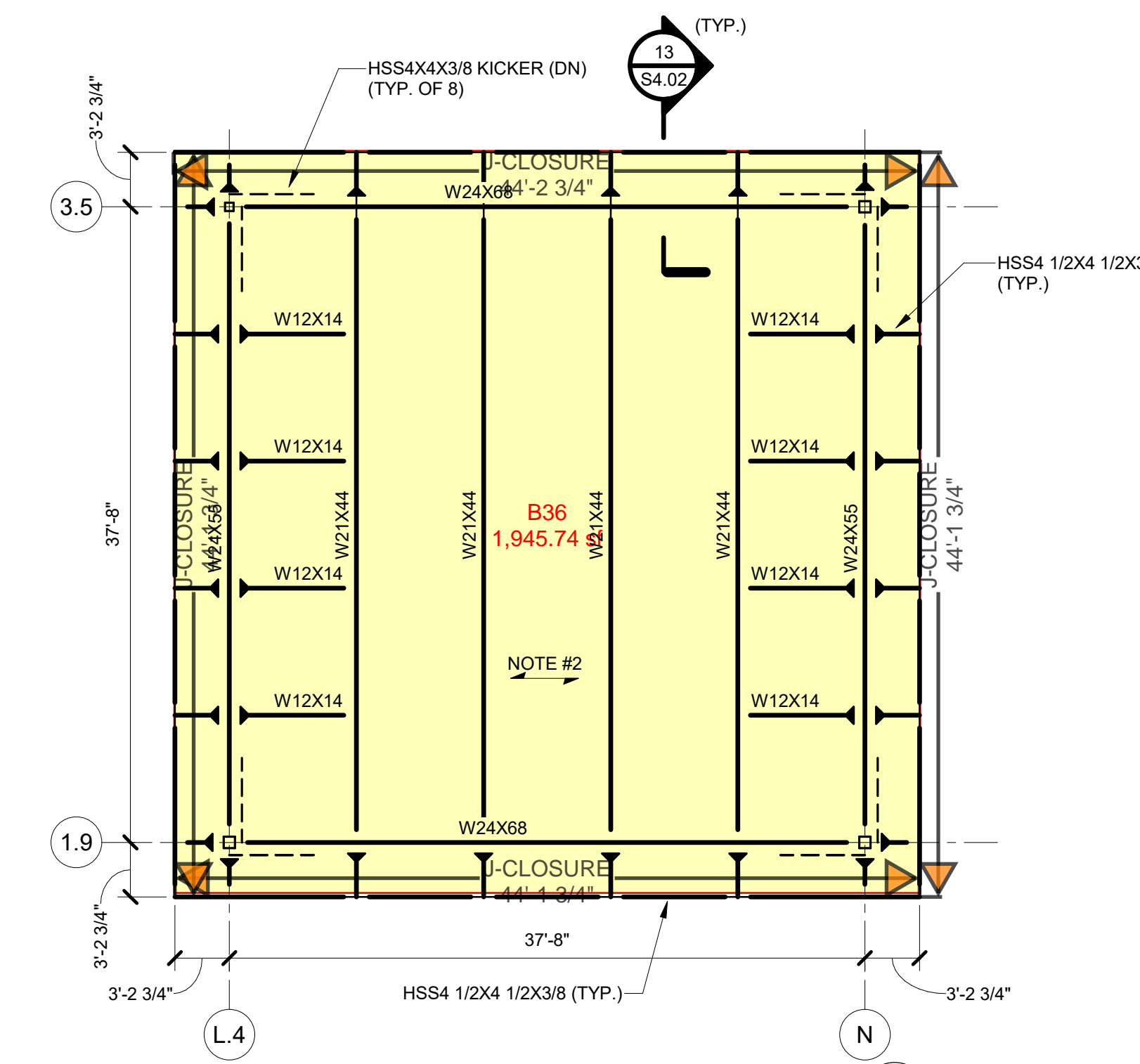
Joist	Description	Quantity
M01	M01	16
M02	M02	5
M03	M03	4
M04	M04	14
M05	M05	20



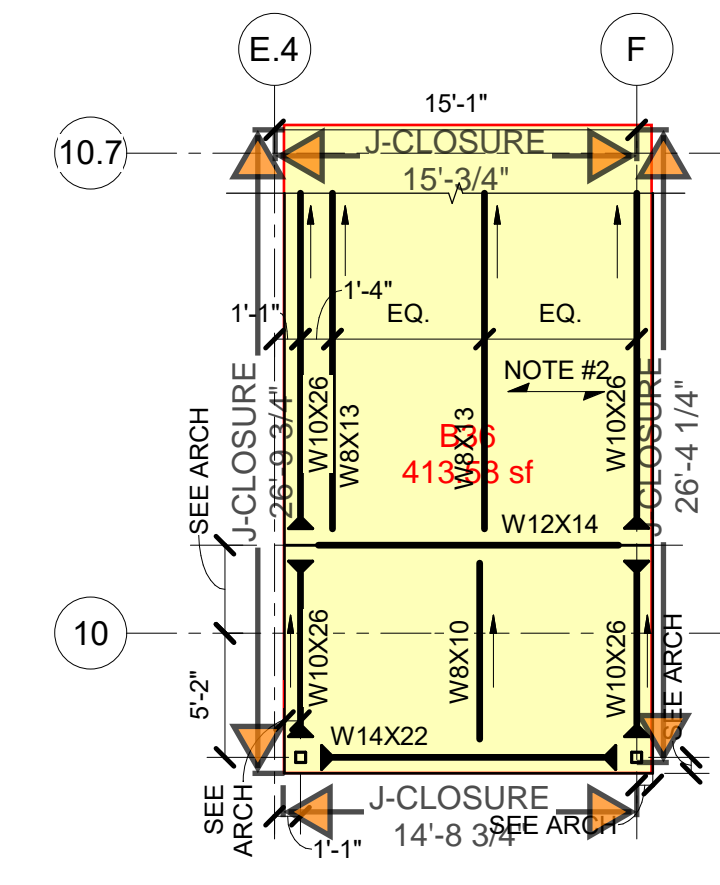
HIGH ROOF FRAMING PLAN
1/8" = 1'-0"



PARTIAL ROOF FRAMING PLAN A
1/8" = 1'-0"
(T.O.S. ELEV. = 266'-2 1/2")



PARTIAL ROOF FRAMING PLAN B
1/8" = 1'-0"
(T.O.S. ELEV. = 266'-2 1/2")



PARTIAL ROOF FRAMING PLAN C
1/8" = 1'-0"
(T.O.S. ELEV. = 273'-2")

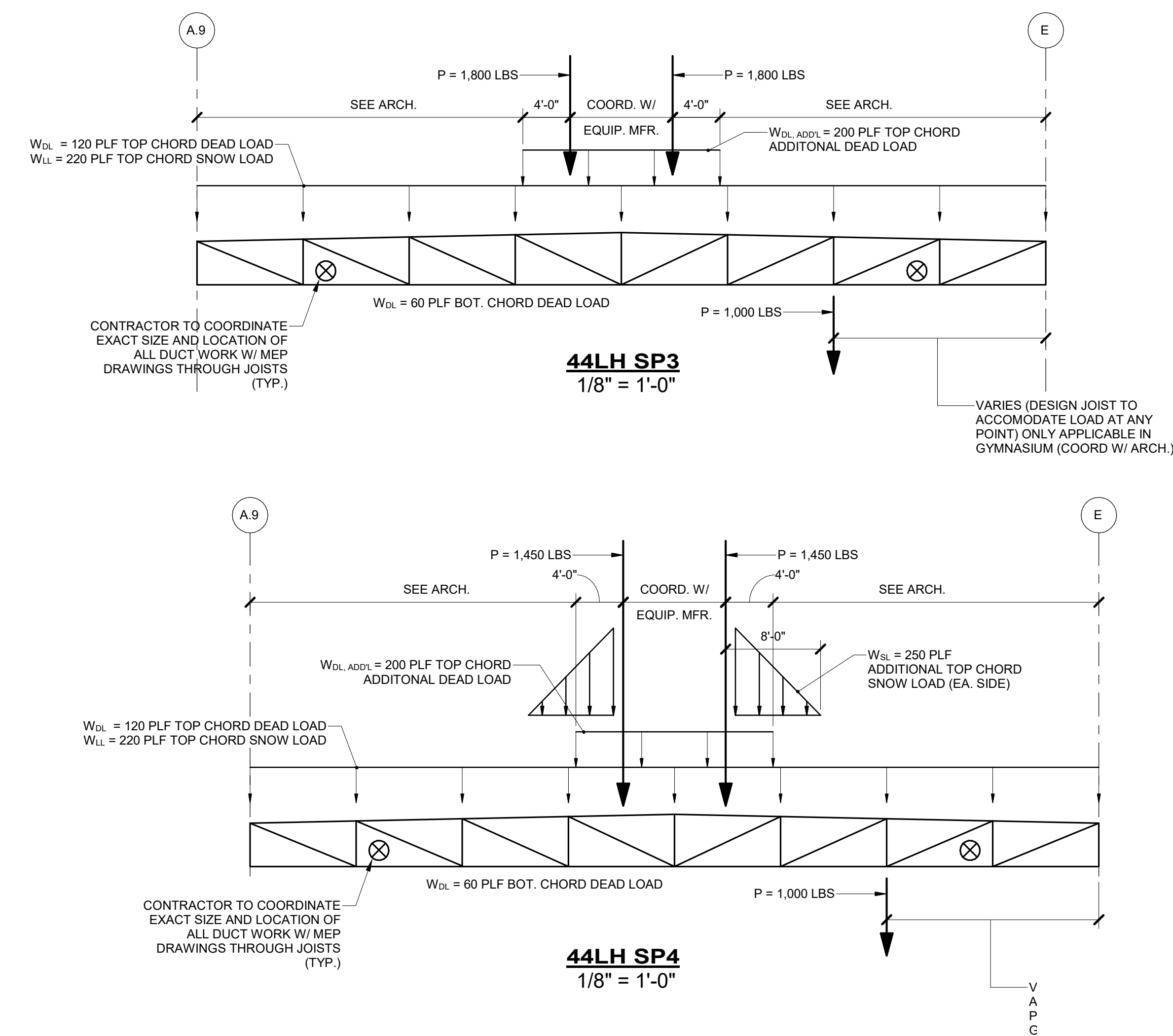
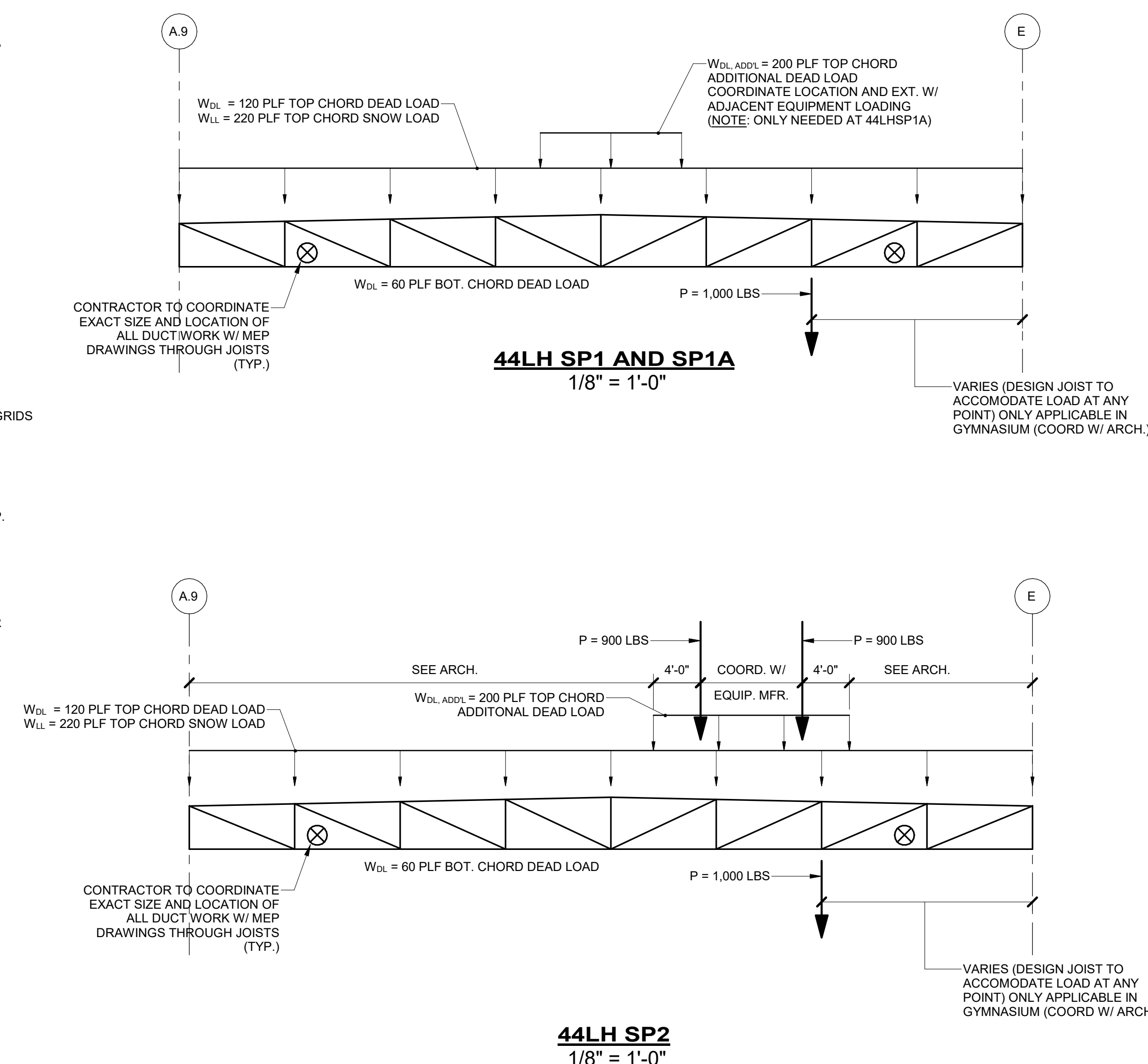
ROOF FRAMING NOTES:

- INDICATES THE SPAN DIRECTION OF 3" DP, X 18 GA. GALV. WIDE RIB STEEL ROOF DECK.
- INDICATES THE SPAN DIRECTION 1 1/2" DP, X 18 GA. GALV. WIDE RIB STEEL ROOF DECK.
- INDICATES THE SPAN DIRECTION OF 3" DP, X 18 GA. GALV. WIDE RIB STEEL CELLULAR ACoustical ROOF DECK WITH 20 GA. GALV. BOTTOM PLATE.
- INDICATES THE SPAN DIRECTION OF 3" X 18 GA. GALV. WIDE RIB STEEL CELLULAR ACoustical ROOF DECK WITH 20 GA. GALV. BOTTOM PLATES SUPPORTING 2" OF 3000 PSI LIGHTWEIGHT CONCRETE SLAB (TOTAL THICKNESS = 5") REINFORCE WITH 6X6-W2X9.2 WELDED WIRE FABRIC LOCATED 1" BELOW TOP OF SLAB. INDICATES EXTENT OF SLAB.
- TOP OF STEEL ELEVATION = 277'-0" (U.N.O. THIS IS X-X'X' ON PLAN).
- ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. SHOP DRAWINGS THAT DO NOT INCLUDE FIELD VERIFIED DIMENSIONS WILL BE RE-SUBMITTED PRIOR TO APPROVAL.
- REFER TO DRAWINGS S3.01 AND S3.02 FOR COLUMN SCHEDULE AND DETAILS.
- REFER TO DRAWINGS S0.01 THROUGH S0.04 FOR GENERAL NOTES AND TYPICAL DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND/OR ELEVATIONS NOT SHOWN.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZES AND LOCATIONS OF ALL FLOOR/ROOF OPENINGS (MECHANICAL OR OTHERWISE) NOT SPECIFICALLY LOCATED ON THESE DRAWINGS. SEE TYPICAL DETAILS FOR TYPICAL FRAMING DETAILS.
- INDICATES THE DIRECTION OF DOWNWARD SLOPE OF A STRUCTURAL MEMBER.
- INDICATES A FIELD WELDED MOMENT CONNECTION BETWEEN BEAM AND COLUMN (UNLESS OTHERWISE NOTED ON PLAN OR IN SECTION). THE MOMENT CONNECTION SHALL BE DESIGNED AND DETAILED BY THE STEEL FABRICATOR TO DEVELOP THE FULL MOMENT CAPACITY OF THE BEAM. SEE TYPICAL DETAILS FOR FRAMING REQUIREMENTS AT UNIT PERIMETER AND AT OPENINGS.
- COORDINATE ROOF OPENING SIZES AND LOCATIONS WITH THE EQUIPMENT MANUFACTURER AND MEP DRAWINGS. SEE TYPICAL DETAILS FOR FRAMING REQUIREMENTS AT UNIT PERIMETER AND AT OPENINGS.
- "V-XXX" INDICATES STEEL FABRICATOR IS TO DESIGN THE CONNECTION TO HAVE THE MINIMUM LISTED SHEAR CAPACITY. IF NO VALUE IS LISTED, THE CONNECTION CAPACITY SHALL CONFORM TO THE TYPICAL BEAM TO BEAM SINGLE PLATE CONNECTION DETAIL. SHOWN ON SHEET S0.03.
- ALL JOISTS SHALL HAVE A SLOPED TOP CHORD TO A CENTER RIDGE. THE DEPTH GIVEN ON THE PLAN IS THE JOIST DEPTH AT THE LOW POINTS (at the ENDS OF THE JOISTS). THE DEPTH OF THE JOISTS AT THE CENTER IS 4" GREATER. (LOADING REQUIREMENTS ARE SHOWN ON THIS SHEET).
- THE MAXIMUM OPERATING WEIGHT FOR THE FOLLOWING:
RTU-1: 5,763 LBS
RTU-2: 5,763 LBS
RTU-3: 7,825 LBS
RTU-4: 1,500 LBS

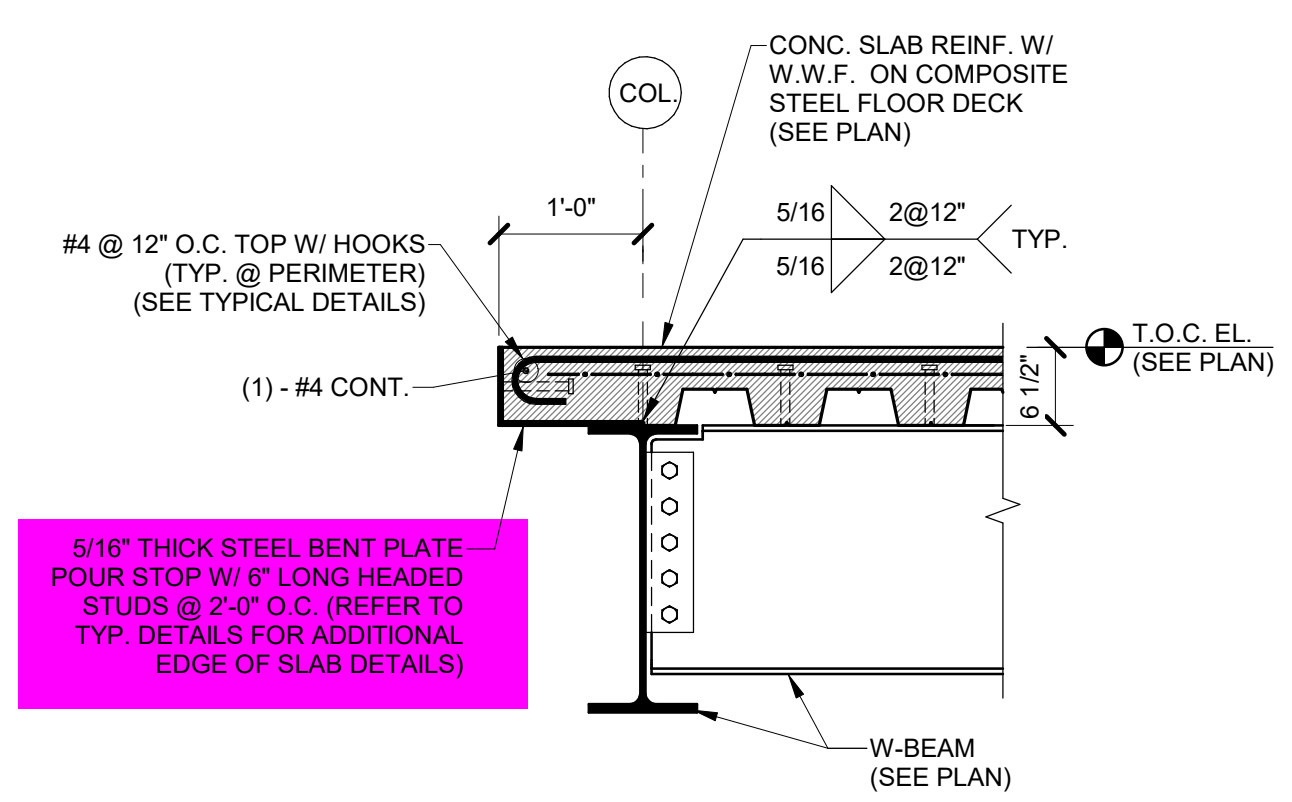
THE ROOF STRUCTURE IS DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN. IF THE SIZE OR LOCATION CHANGES, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY FOR REVIEW AND POSSIBLE REDESIGN OF THE STRUCTURE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE EQUIPMENT MANUFACTURER PRIOR TO SHOP DRAWING SUBMISSION.

SMALLER MECHANICAL EQUIPMENT SHOWN FOR GENERAL LOCATION AND SPEC. COORDINATE WITH ARCH. AND MEP DRAWINGS. SEE TYPICAL DETAILS FOR FRAMING REQUIREMENTS.

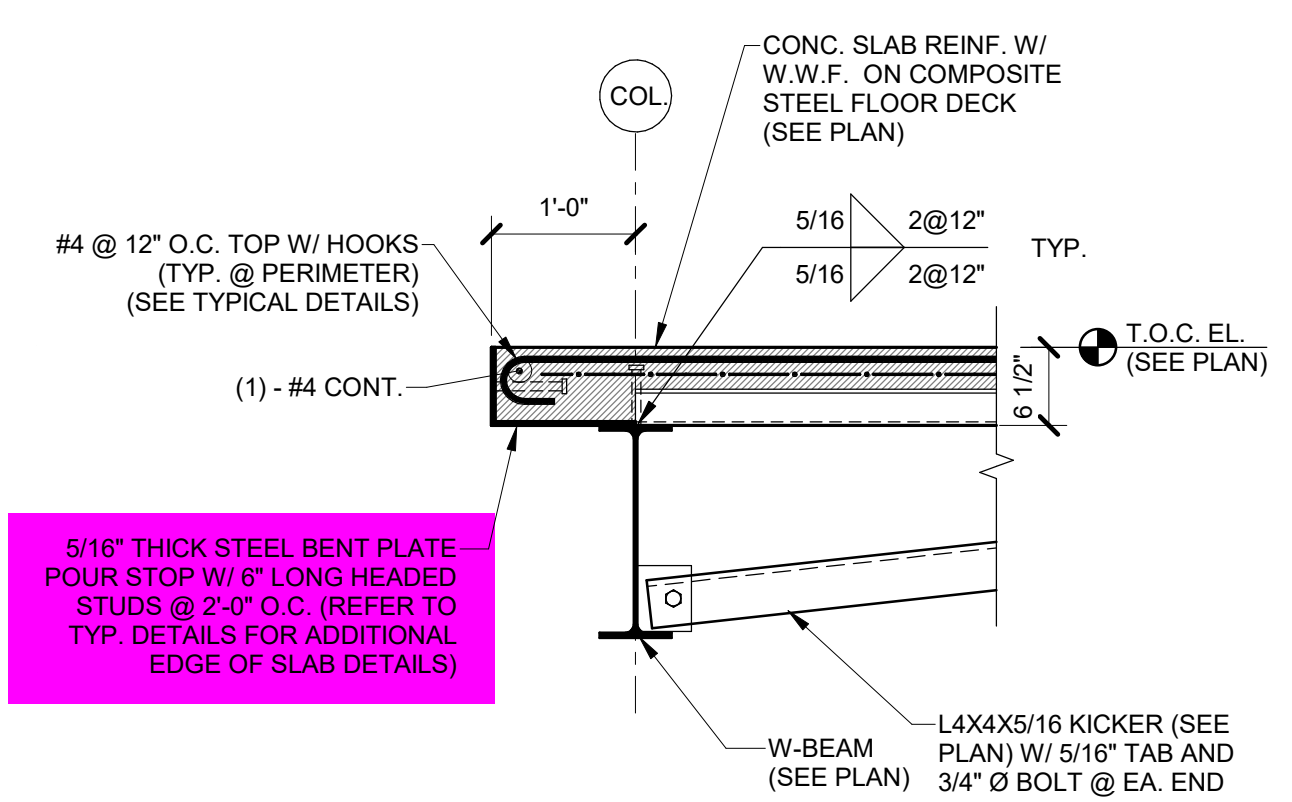
- INDICATES SPAN DIRECTION OF 3" X 18 GA. GALV. WIDE RIB ROOF DECK SUPPORTING 3 1/2" OF 4000 PSI NORMAL WEIGHT CONCRETE SLAB (TOTAL THICKNESS = 6 1/2"). REINFORCE WITH 6X6-W2X9.2 WELDED WIRE FABRIC LOCATED 1" BELOW THE TOP OF THE SLAB. INDICATES EXTENT OF CONCRETE SLAB.
- DIAGONAL BRIDGING LINES SHOWN ARE MINIMUM REQUIREMENTS. JOIST FABRICATOR SHALL DESIGN ALL ADDITIONAL HORIZONTAL AND DIAGONAL BRIDGING REQUIREMENTS DEFINED BY THE STEEL JOIST INSTITUTE. JOISTS AND BRIDGING SHALL BE DESIGNED PER THE "ROOF DESIGN WIND PRESSURE" TABLE ON SHEET S0.01.
- SEE TYPICAL DETAILS FOR CONNECTION REQUIREMENTS FOR STEEL TO CMU.
- INDICATES STRUCTURAL CMU SHEAR WALL. SEE SECTIONS AND TYPICAL DETAILS SHEETS FOR ELEVATIONS AND DETAILS. SEE ARCH. FOR EXACT LOCATIONS.
- INDICATES NON-STRUCTURAL CMU PARTITION WALL. SEE TYPICAL DETAILS SHEETS FOR TYPICAL DETAILS. SEE ARCH. FOR EXACT LOCATIONS.



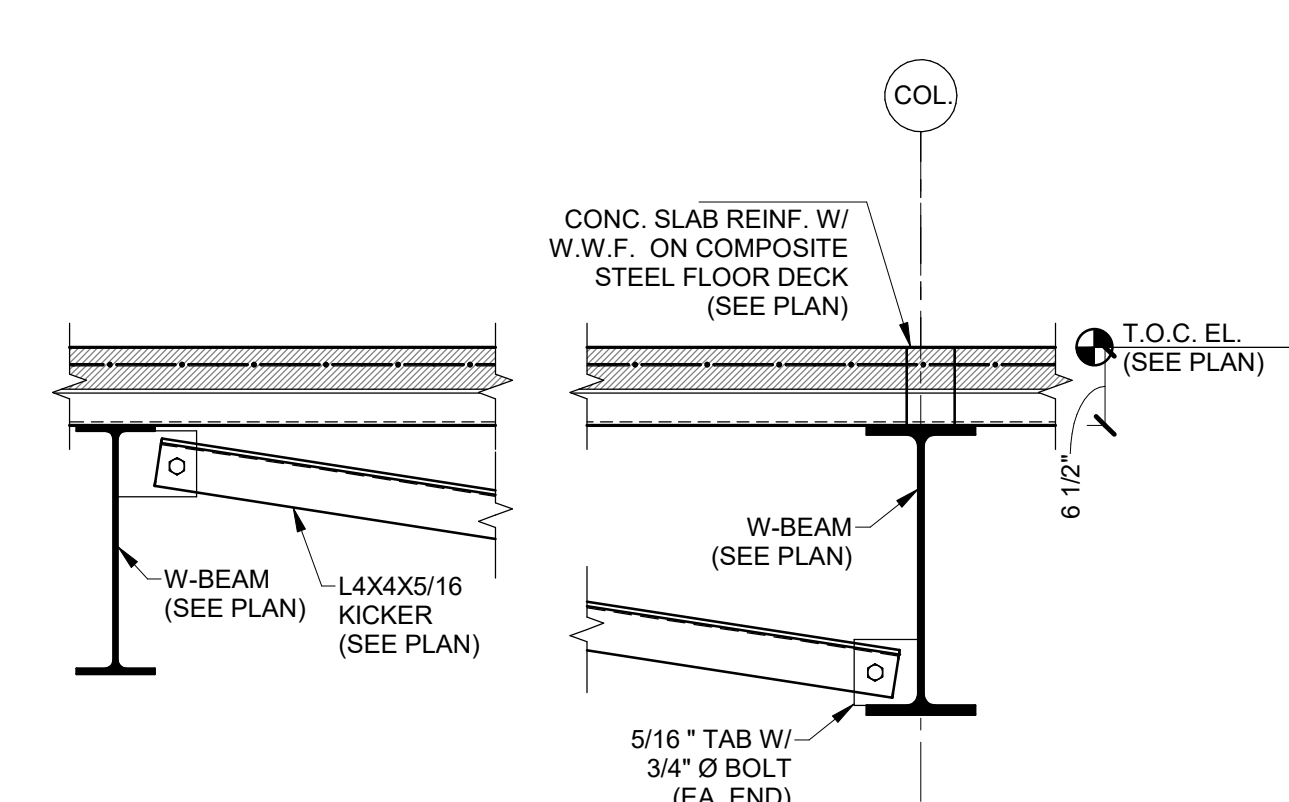
J-59/16



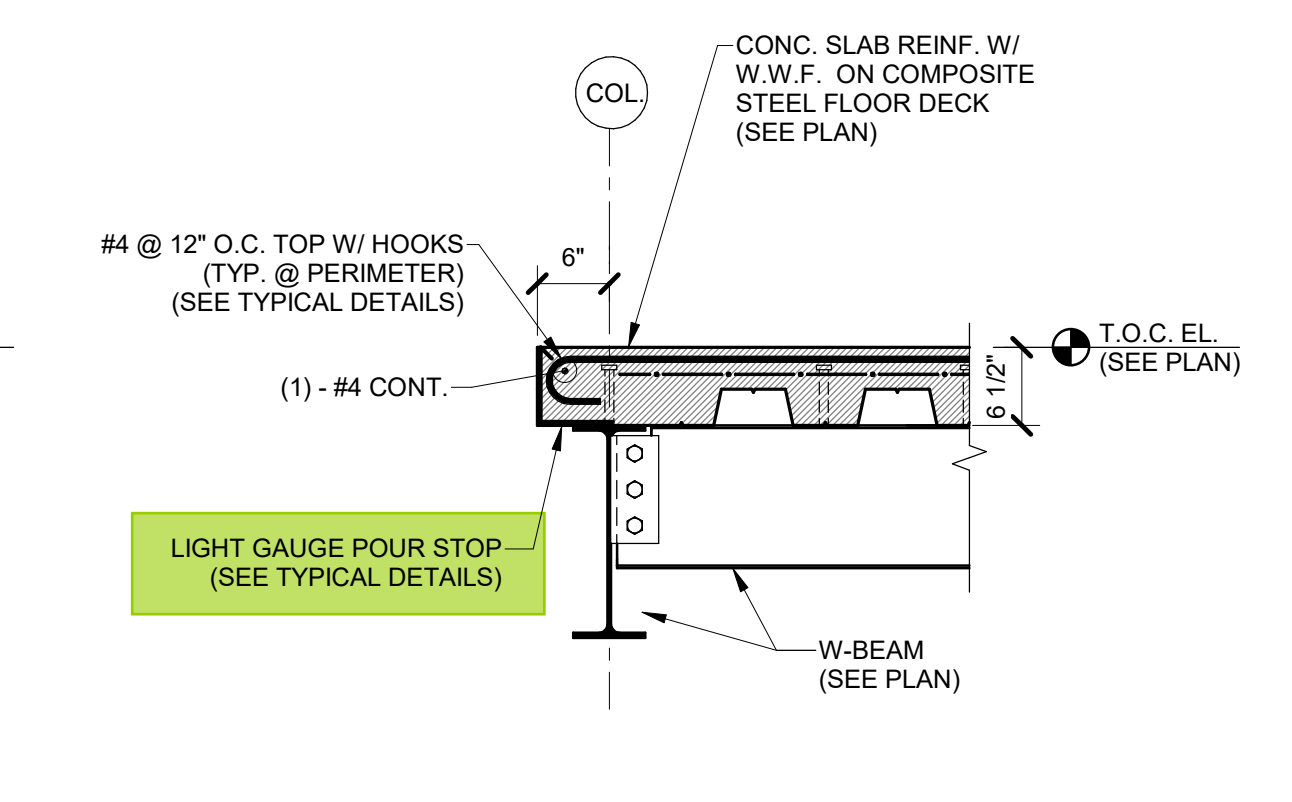
SECTION 1
3/4" = 1'-0"



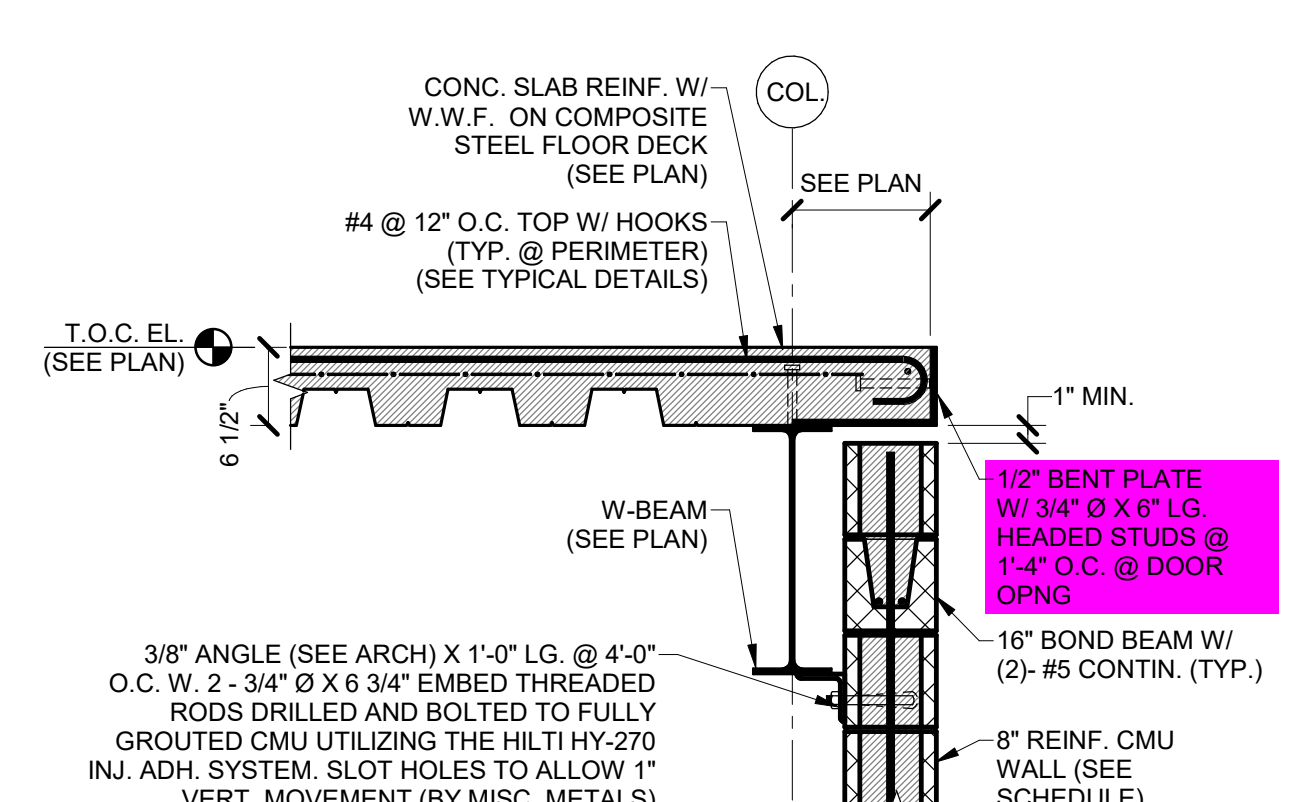
SECTION 2
3/4" = 1'-0"



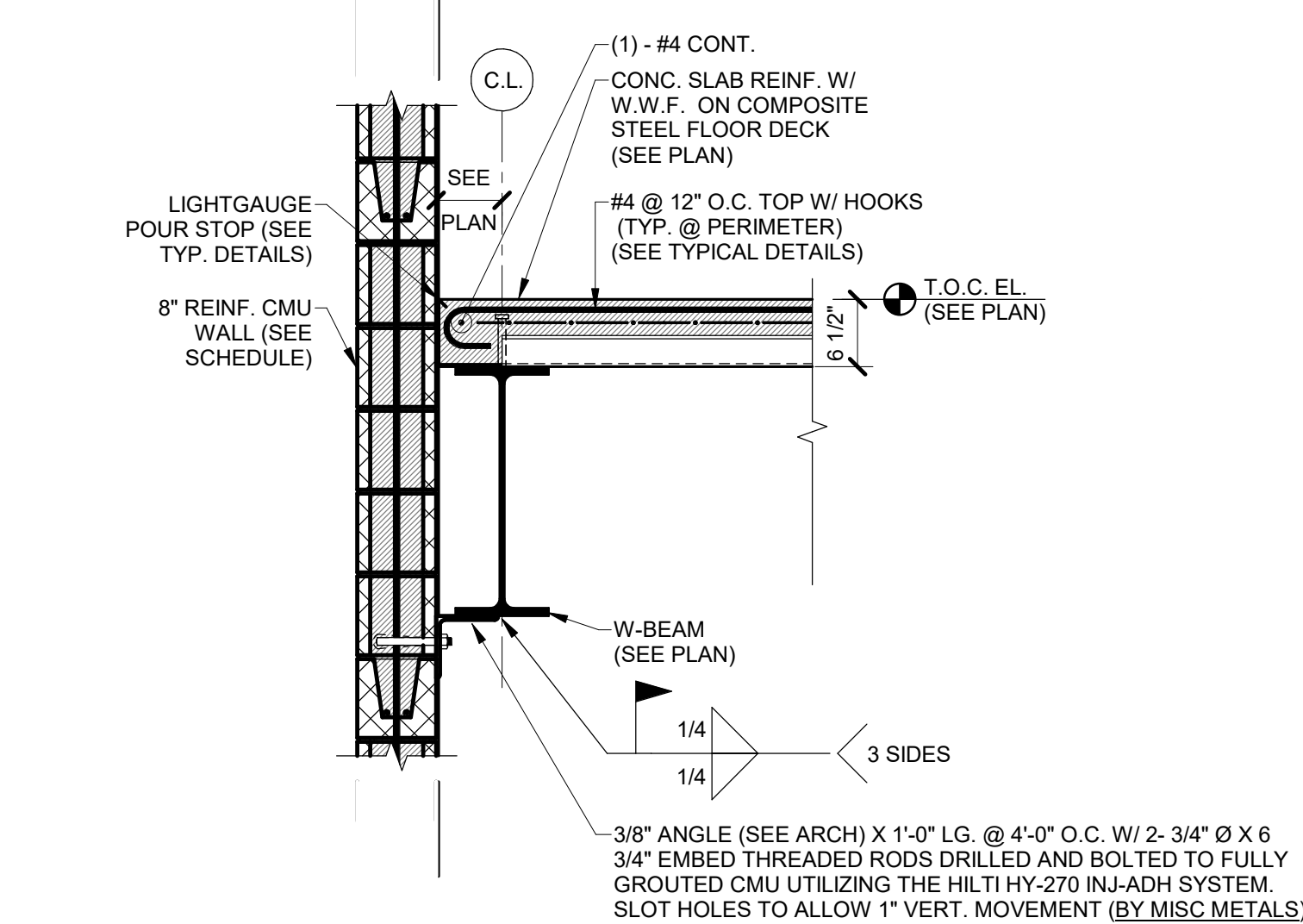
SECTION 3
3/4" = 1'-0"



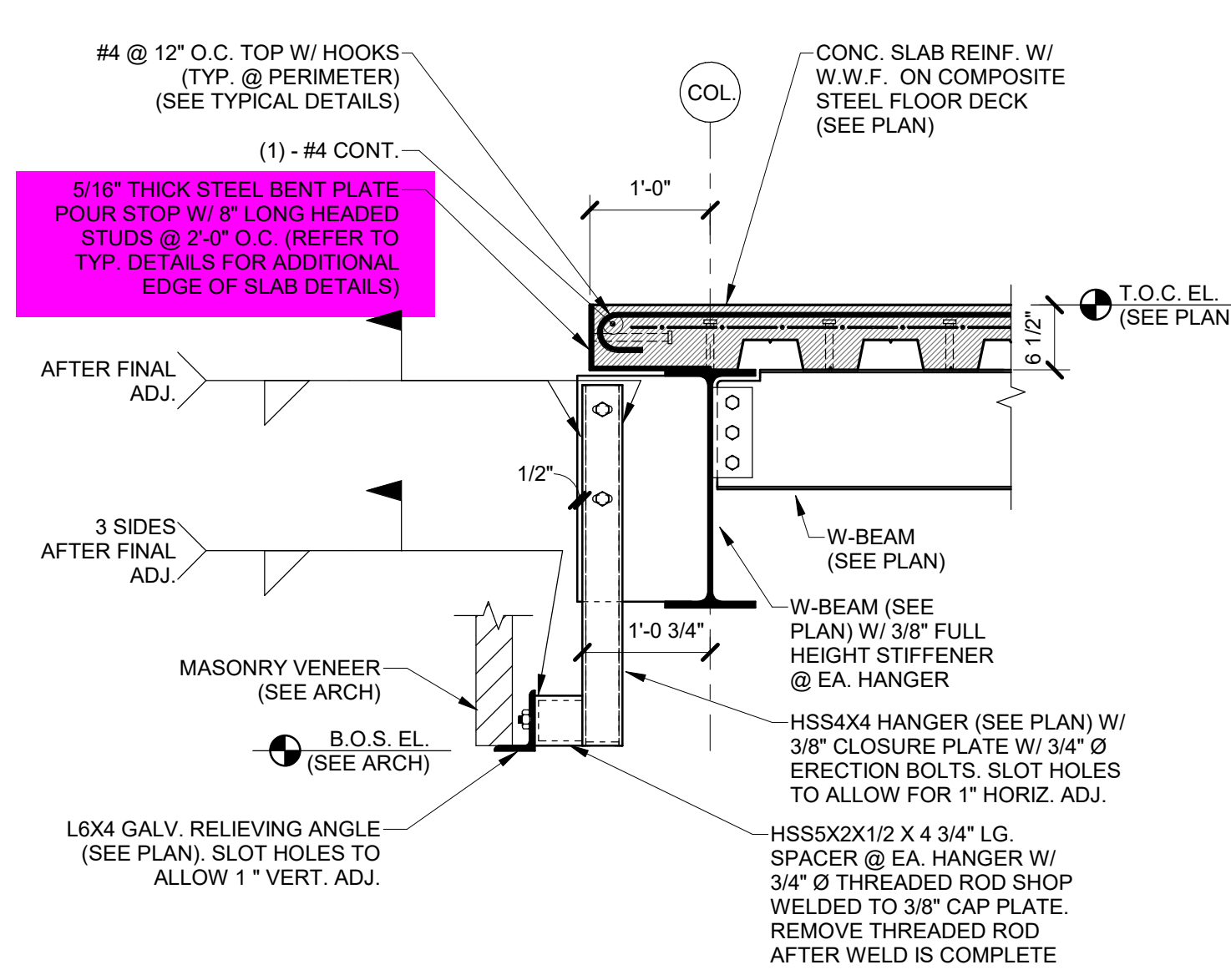
SECTION 4
3/4" = 1'-0"



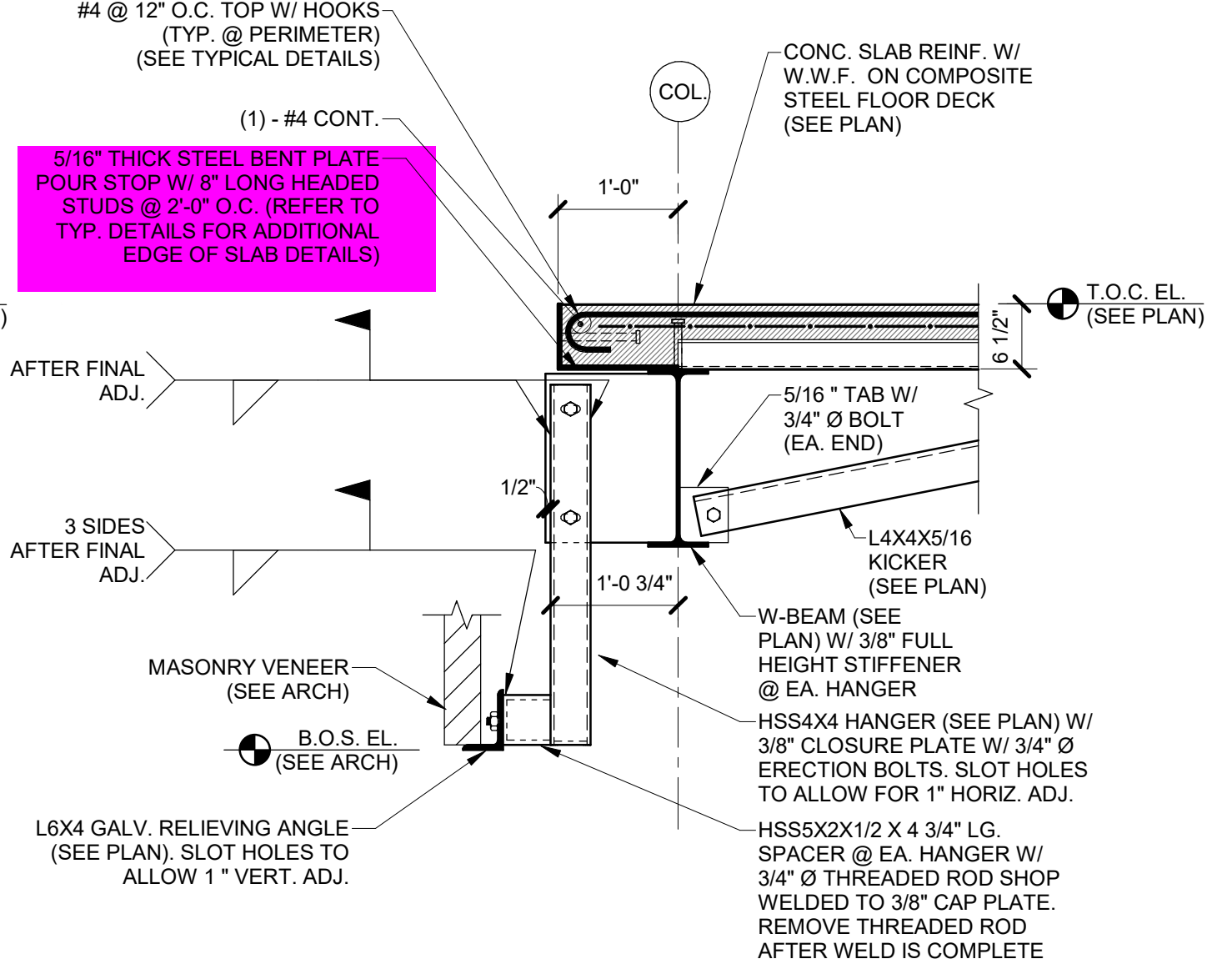
SECTION 5
3/4" = 1'-0"



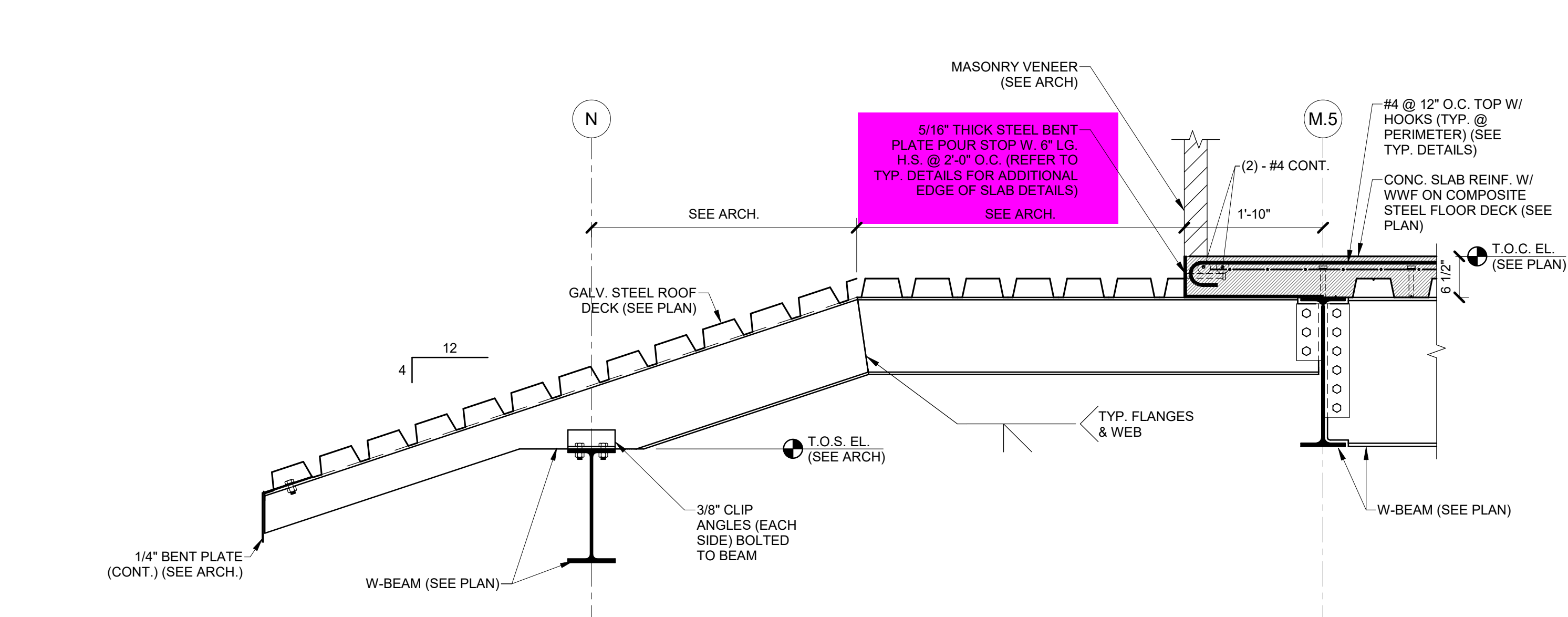
SECTION 6
3/4" = 1'-0"



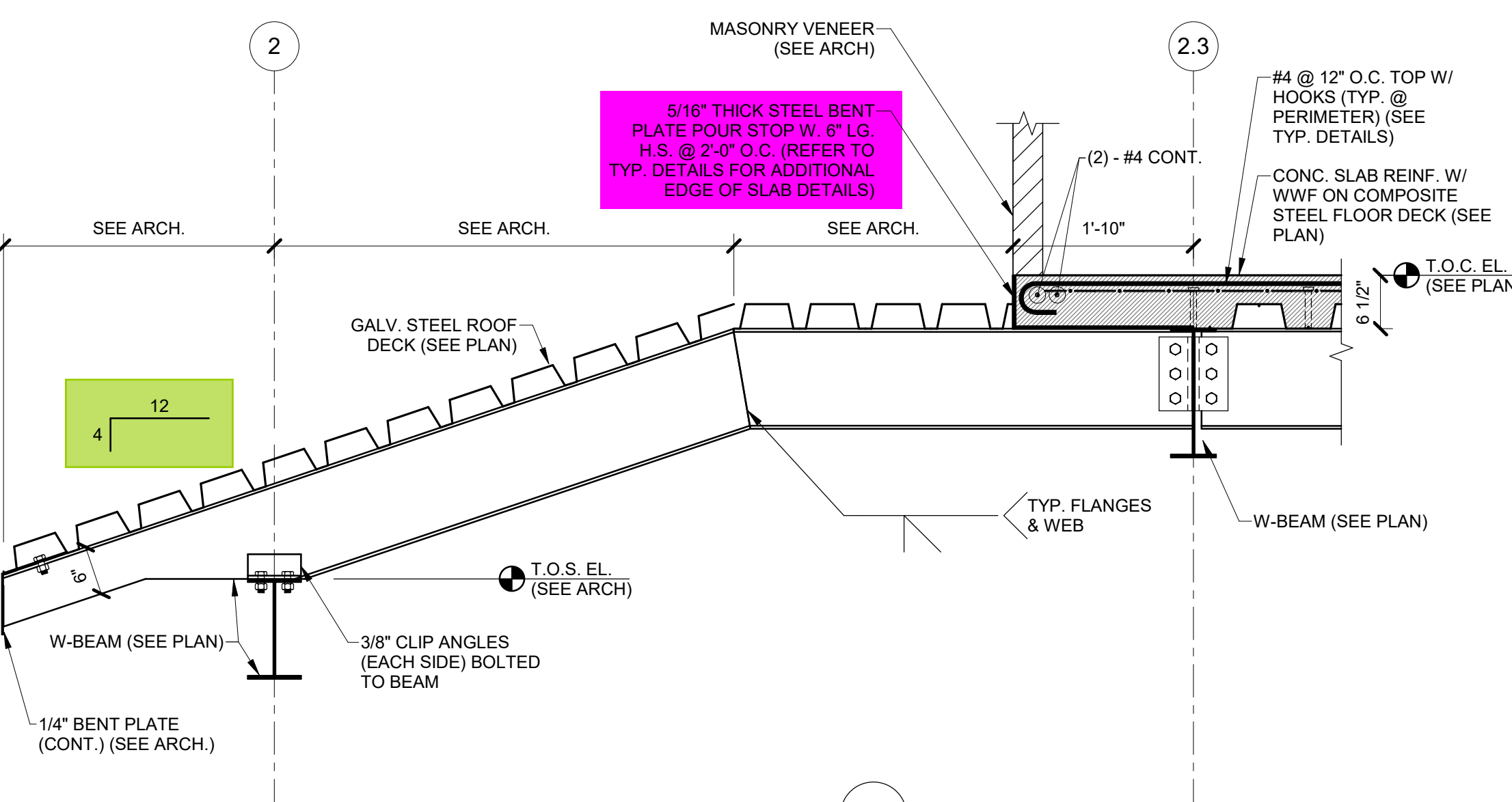
SECTION 7
3/4" = 1'-0"



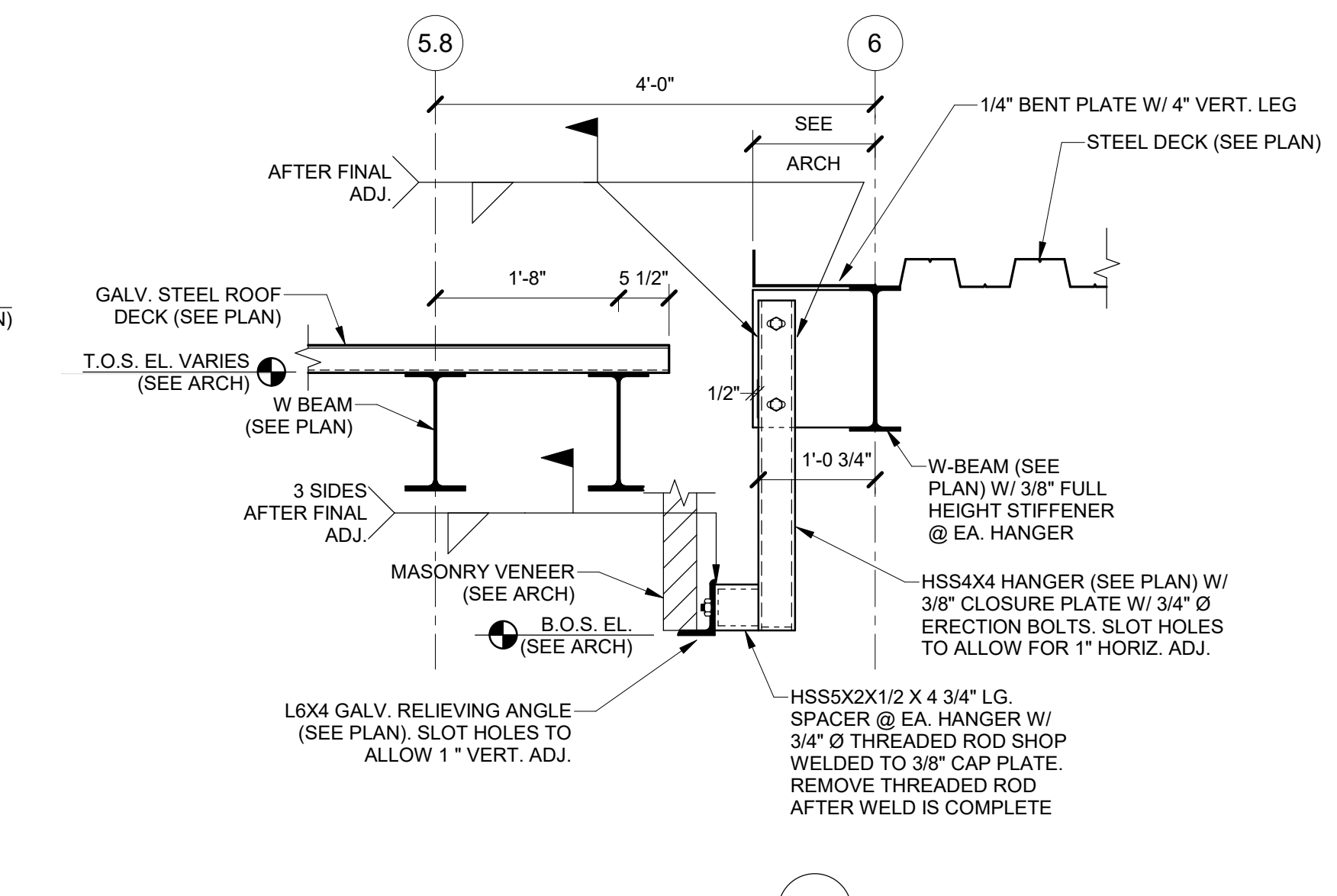
SECTION 8
3/4" = 1'-0"



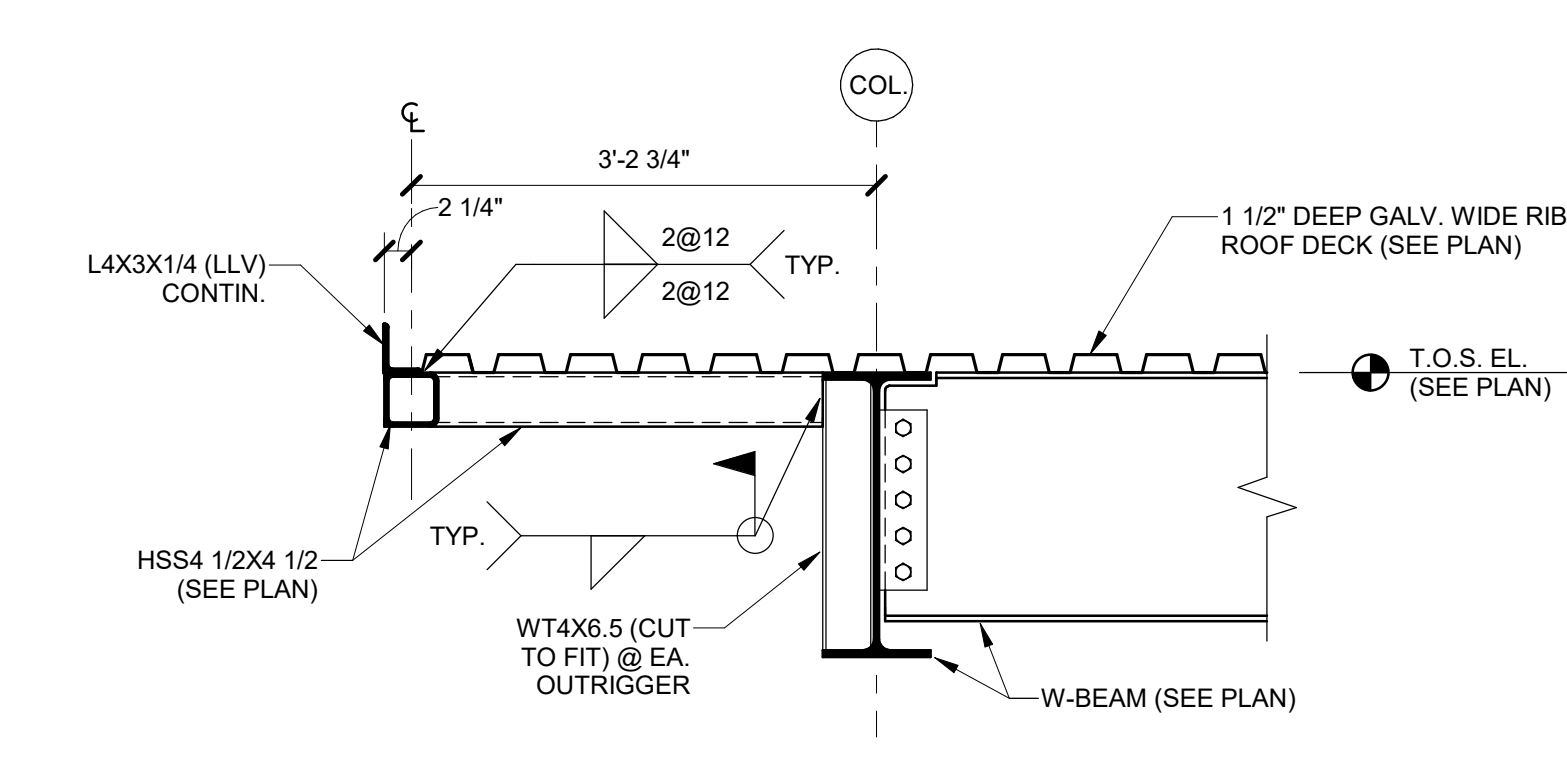
SECTION 9
3/4" = 1'-0"



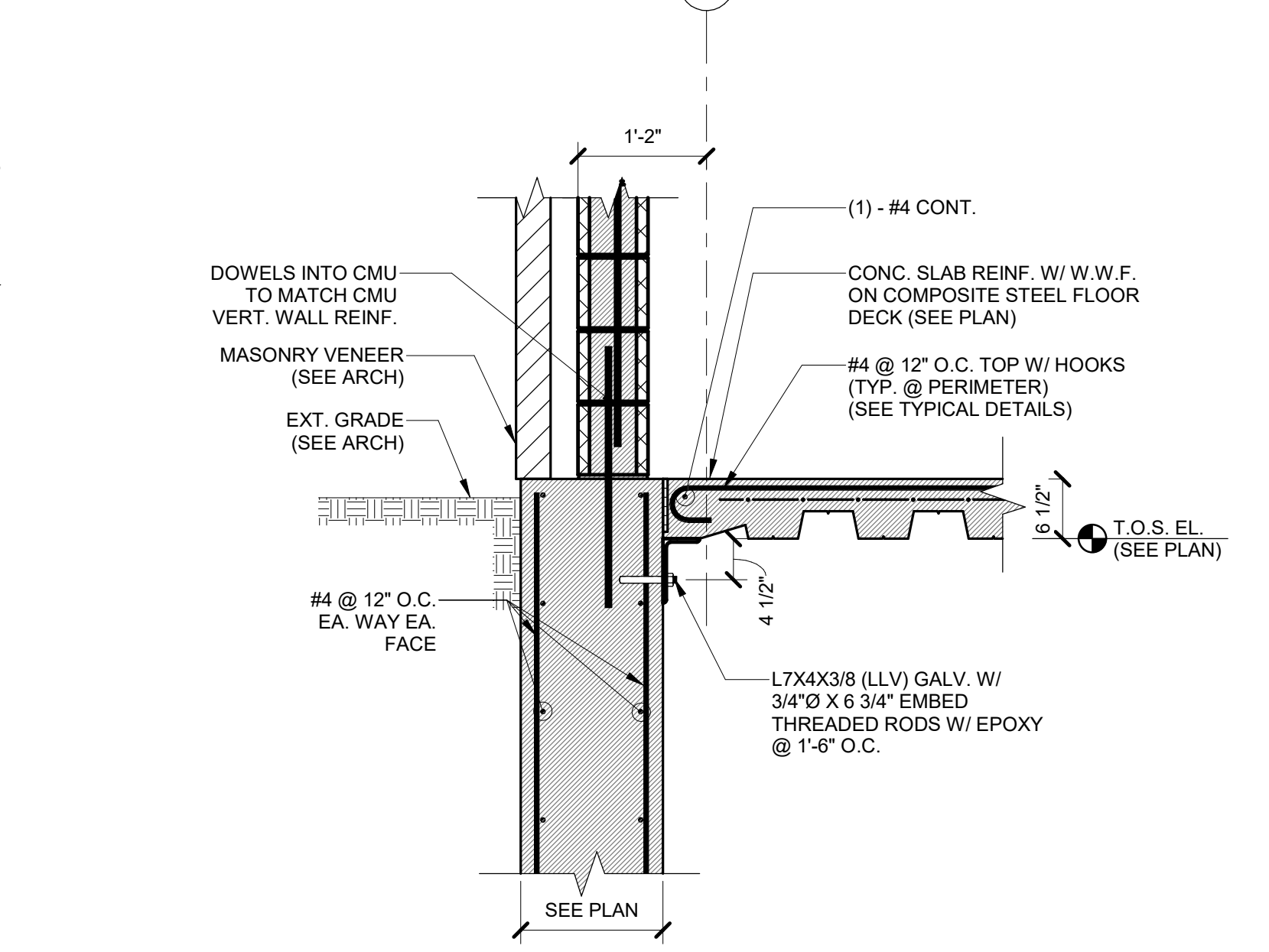
SECTION 10
3/4" = 1'-0"



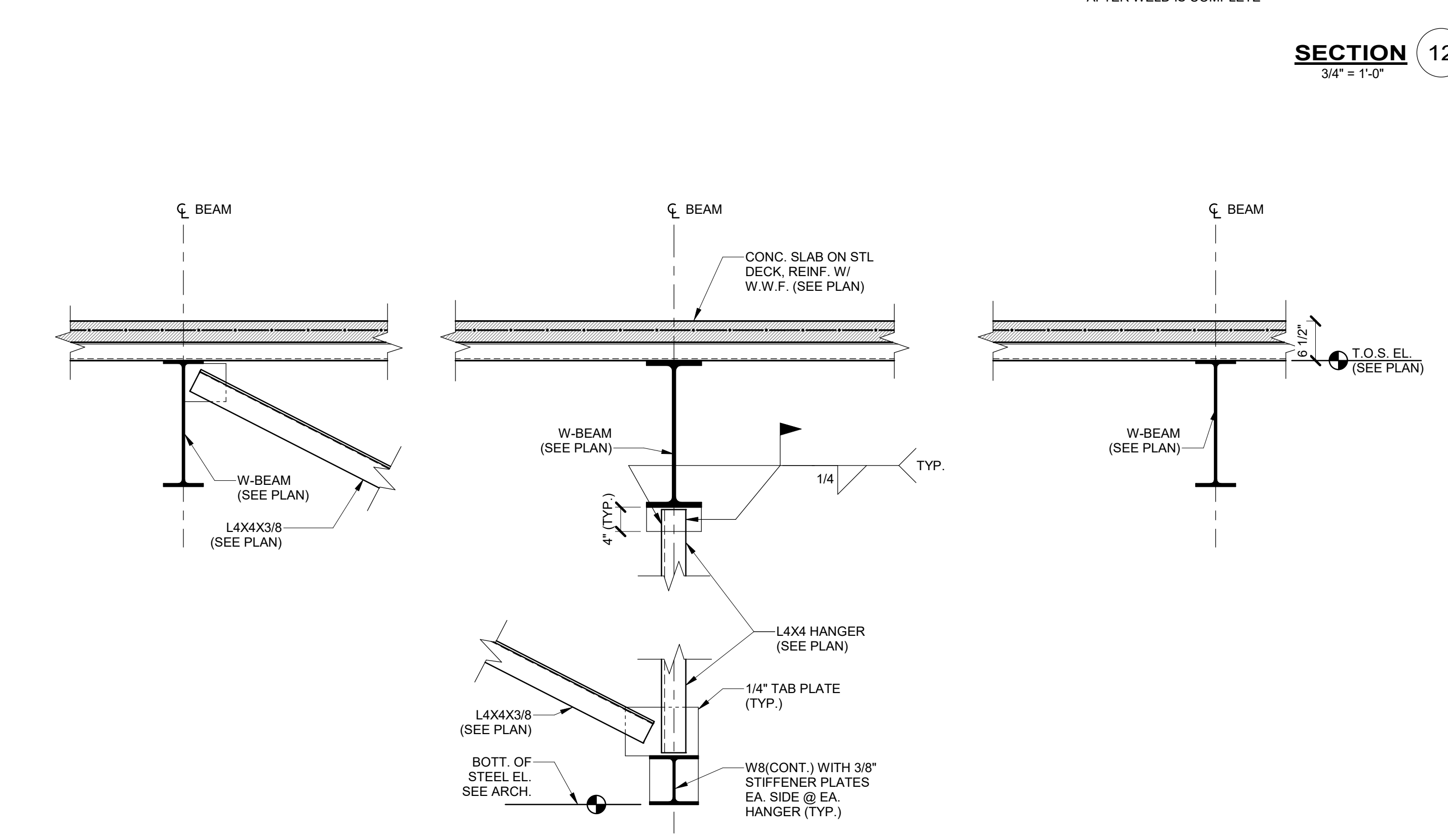
SECTION 11
3/4" = 1'-0"



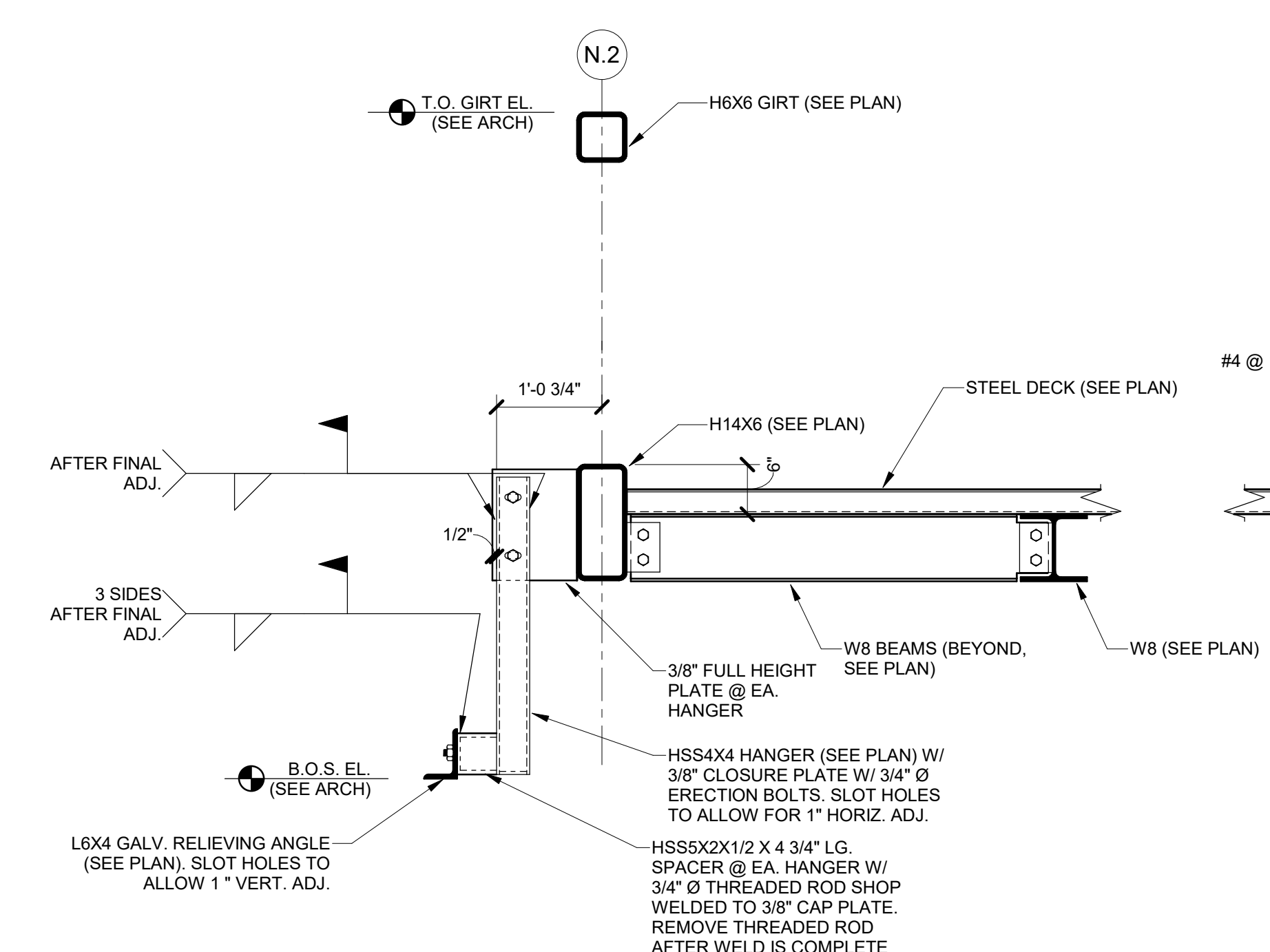
SECTION 13
3/4" = 1'-0"



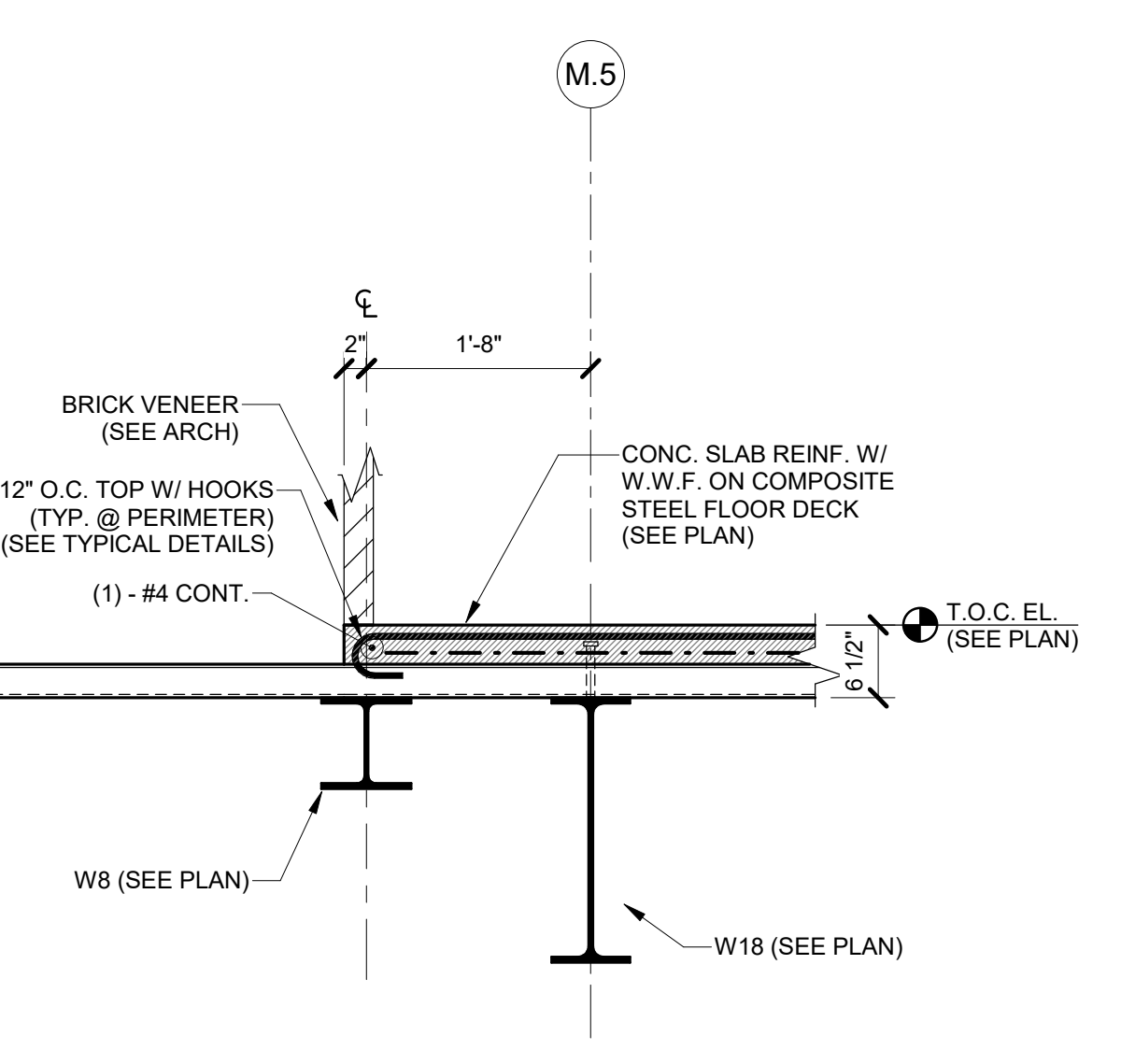
SECTION 14
3/4" = 1'-0"



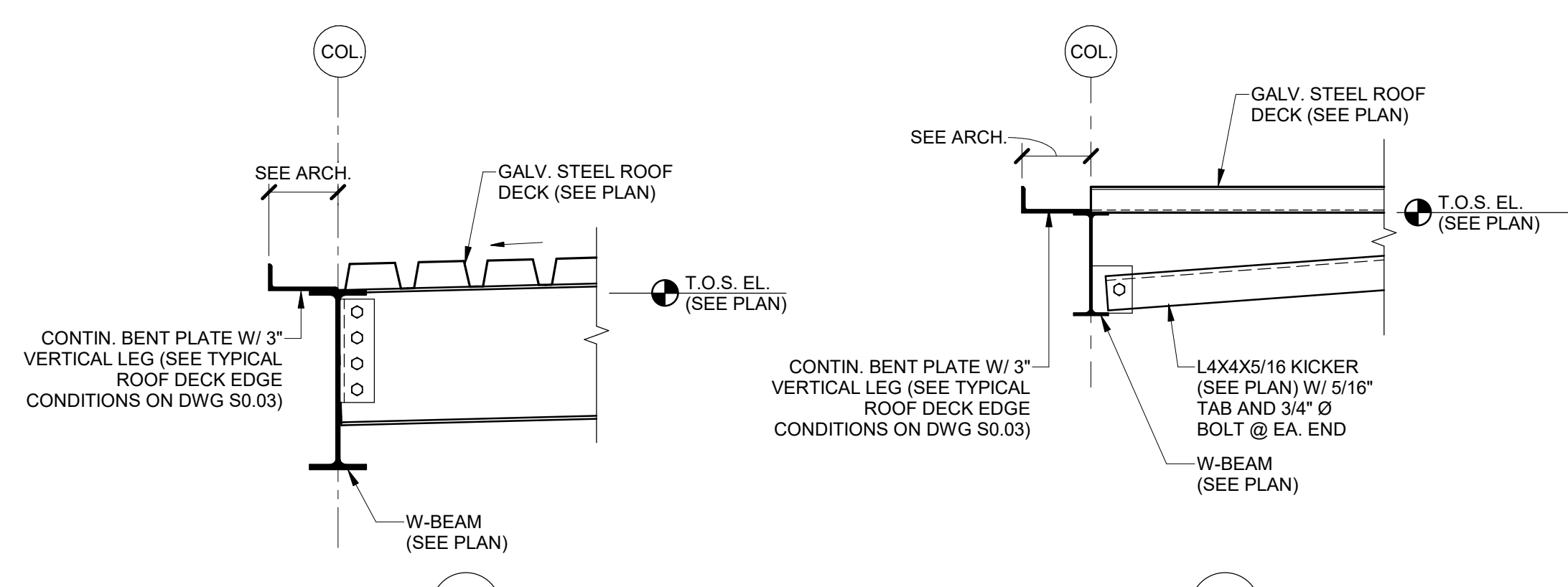
SECTION 15
3/4" = 1'-0"



SECTION 12
3/4" = 1'-0"



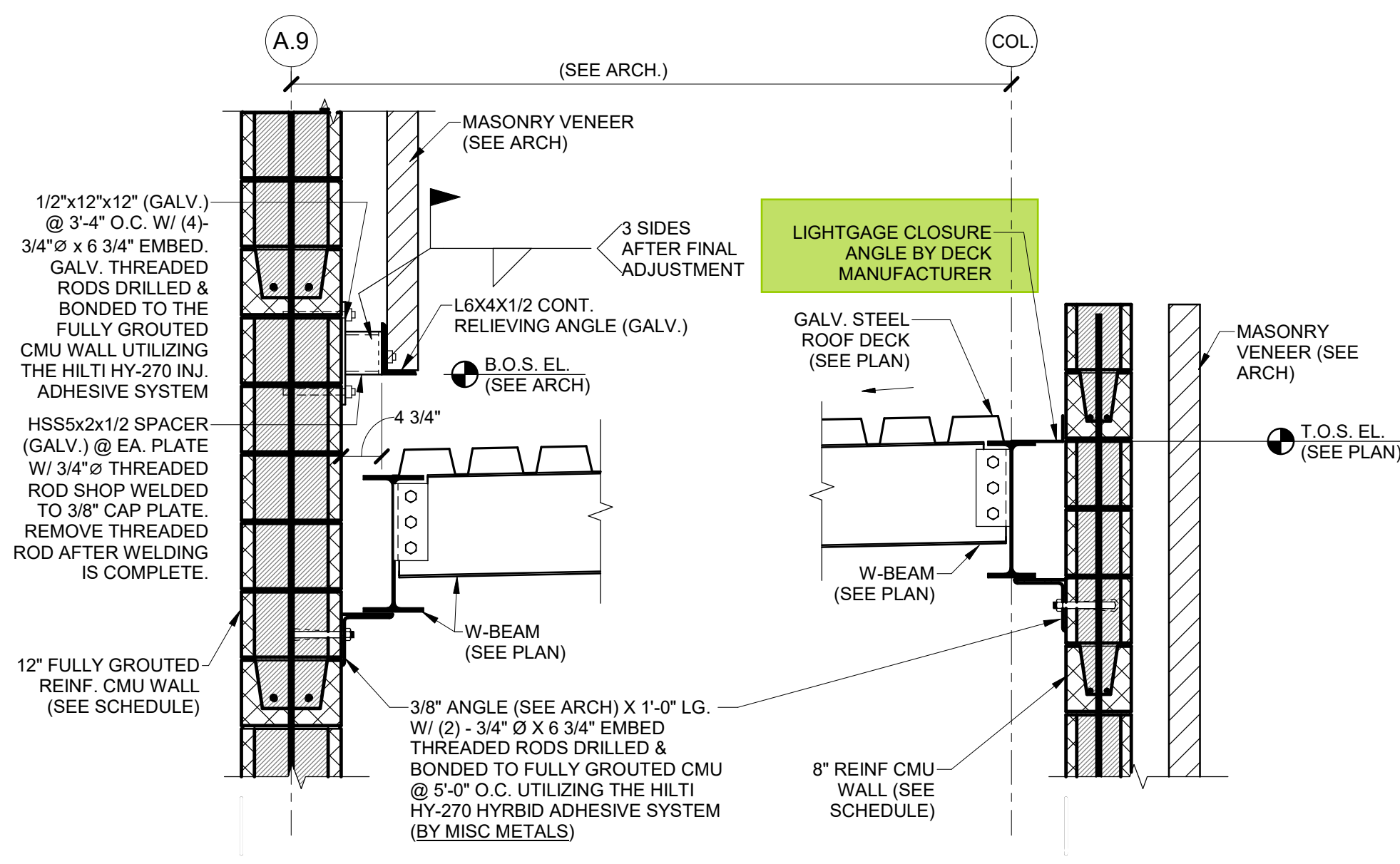
SECTION 12
3/4" = 1'-0"



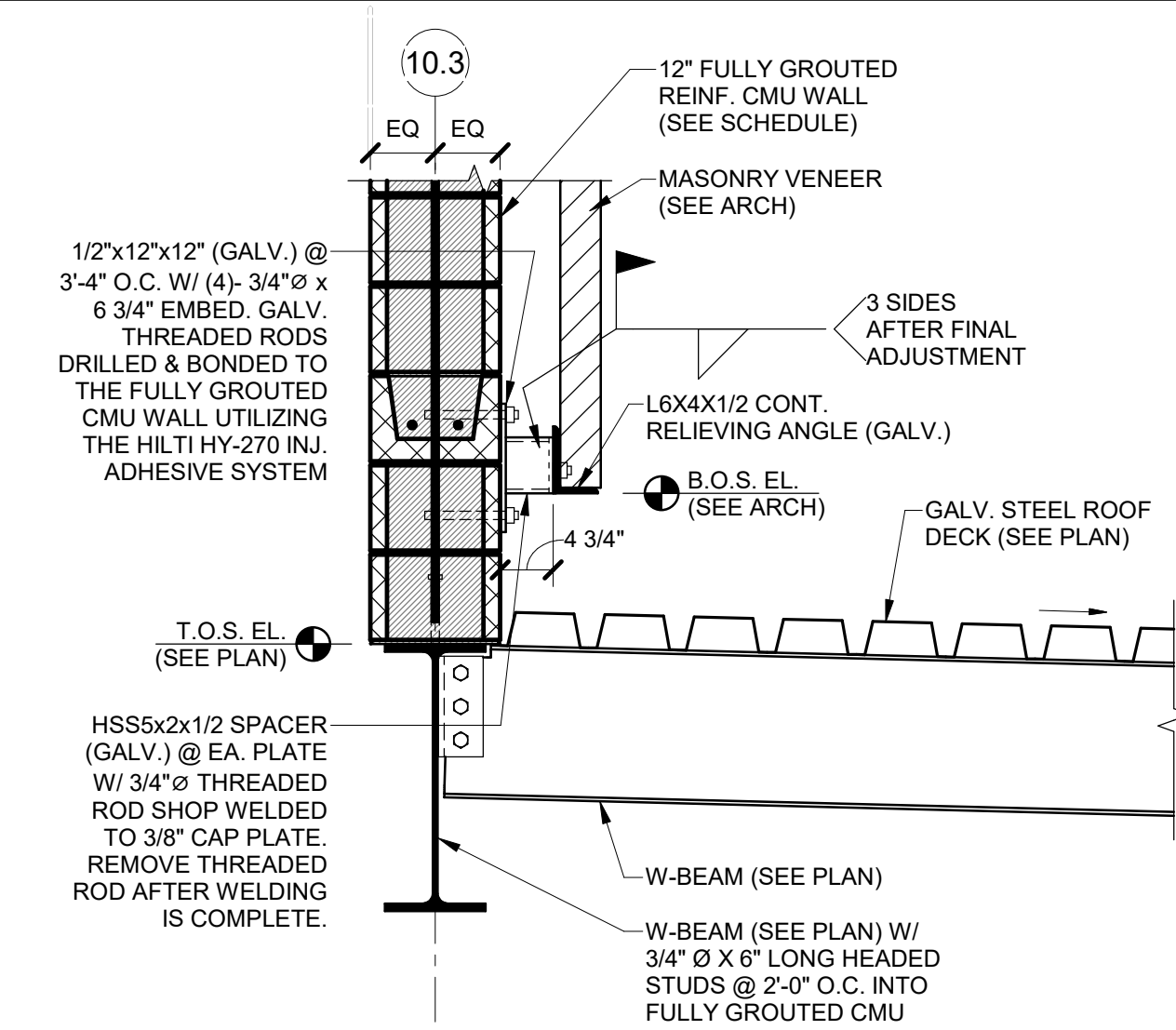
SECTION 1
3/4" = 1'-0"

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

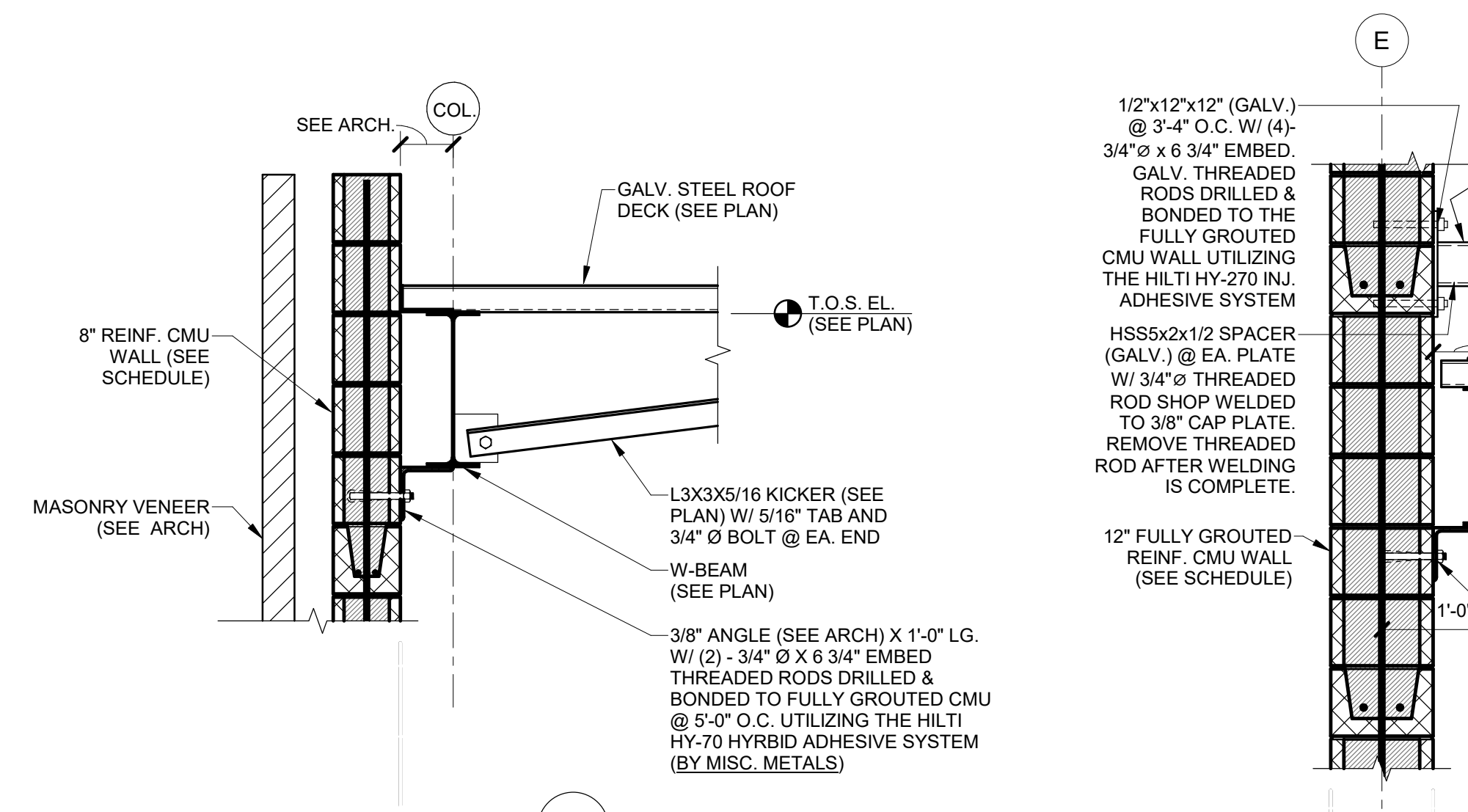
SECTION 3
3/4" = 1'-0"



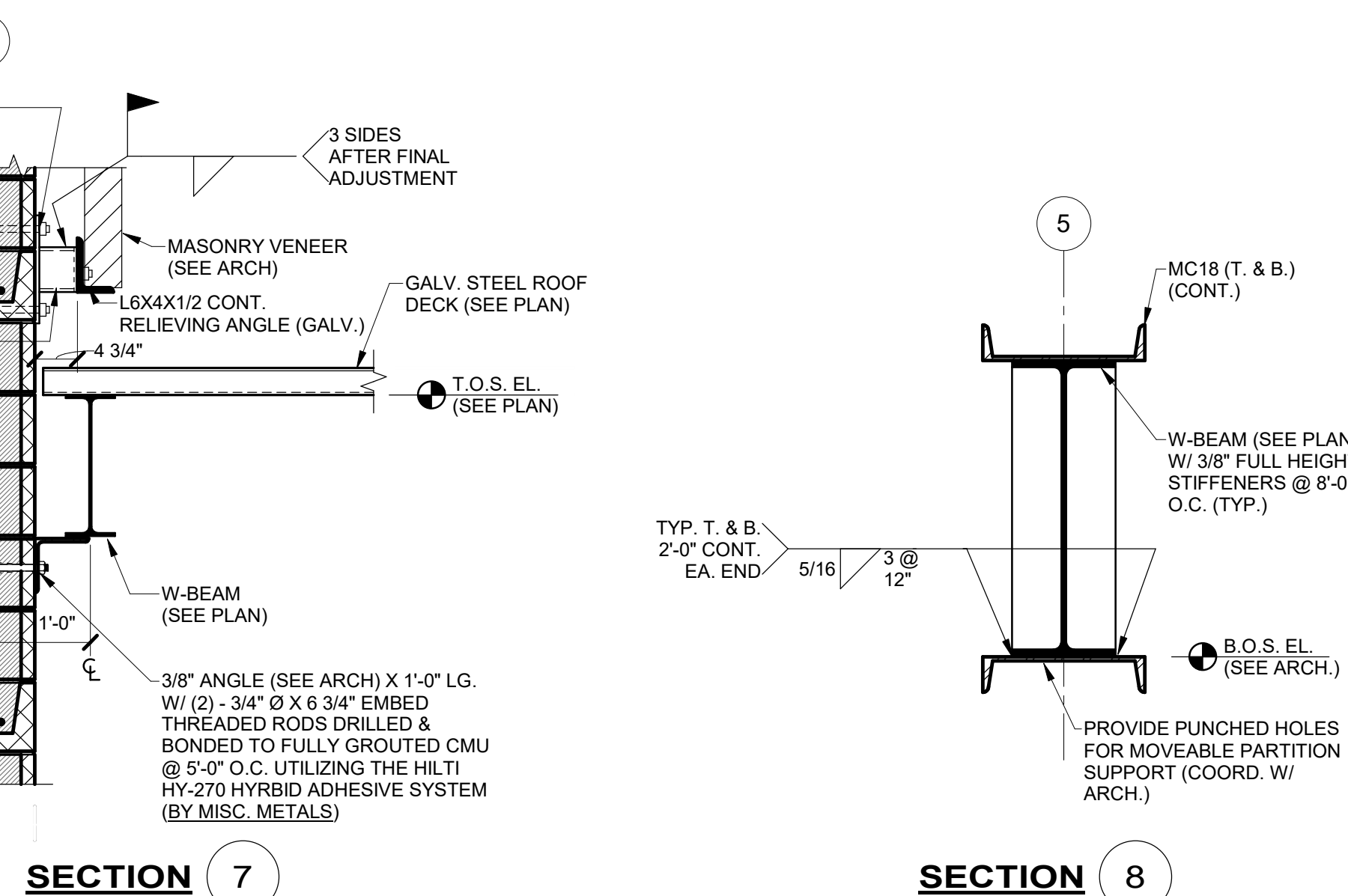
SECTION 4
3/4" = 1'-0"



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

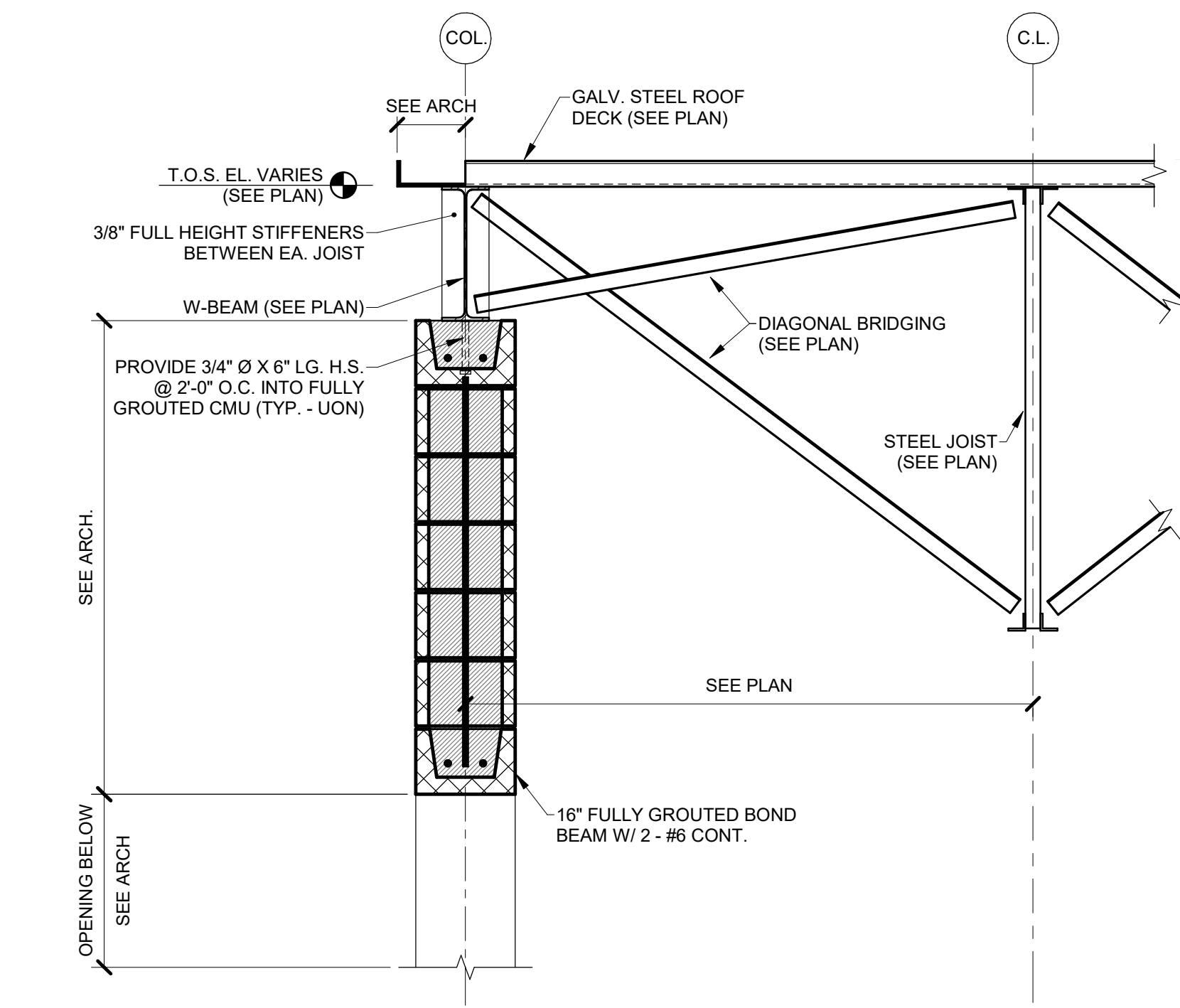


SECTION 6
3/4" = 1'-0"

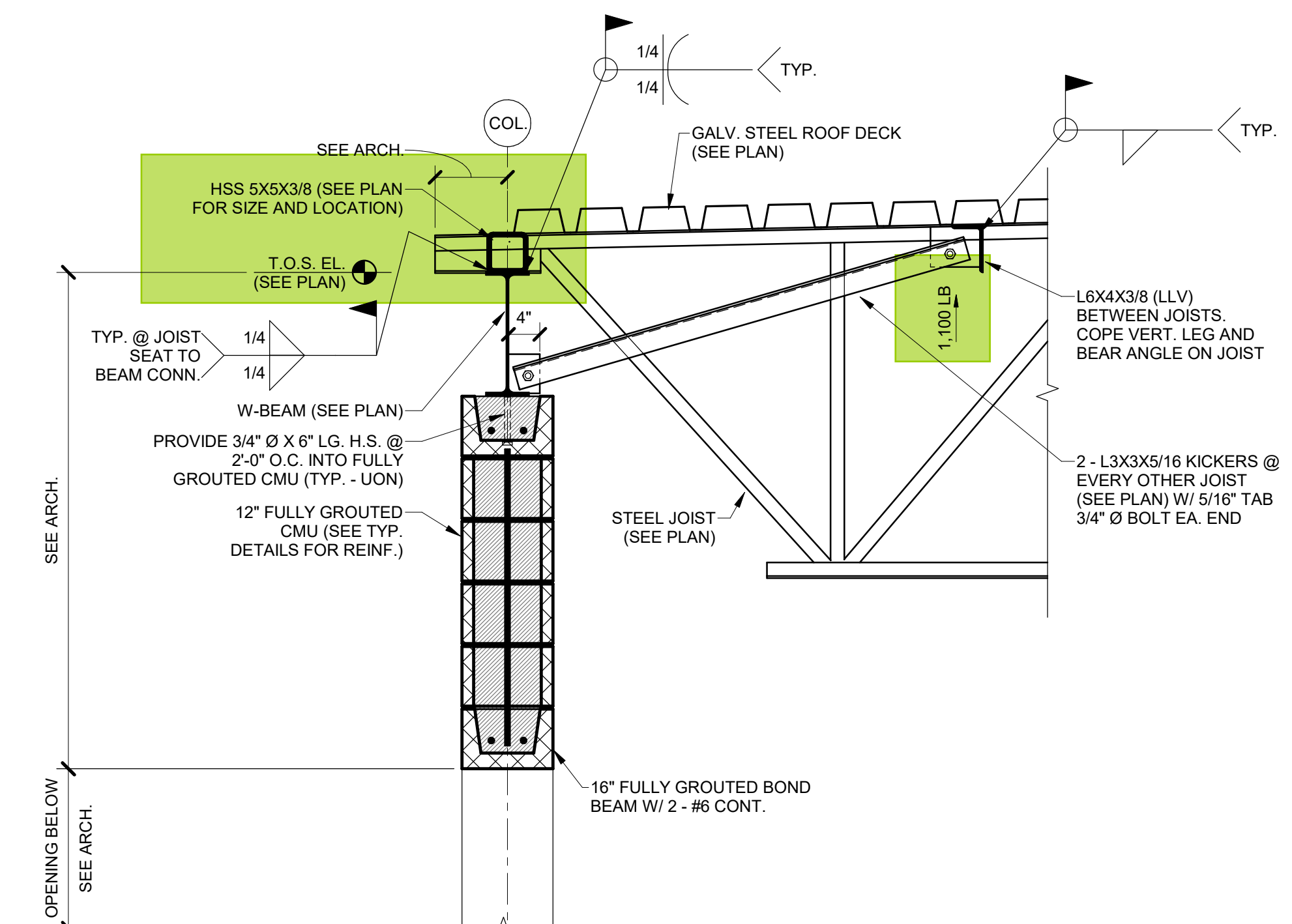


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3/4" = 1'-0"

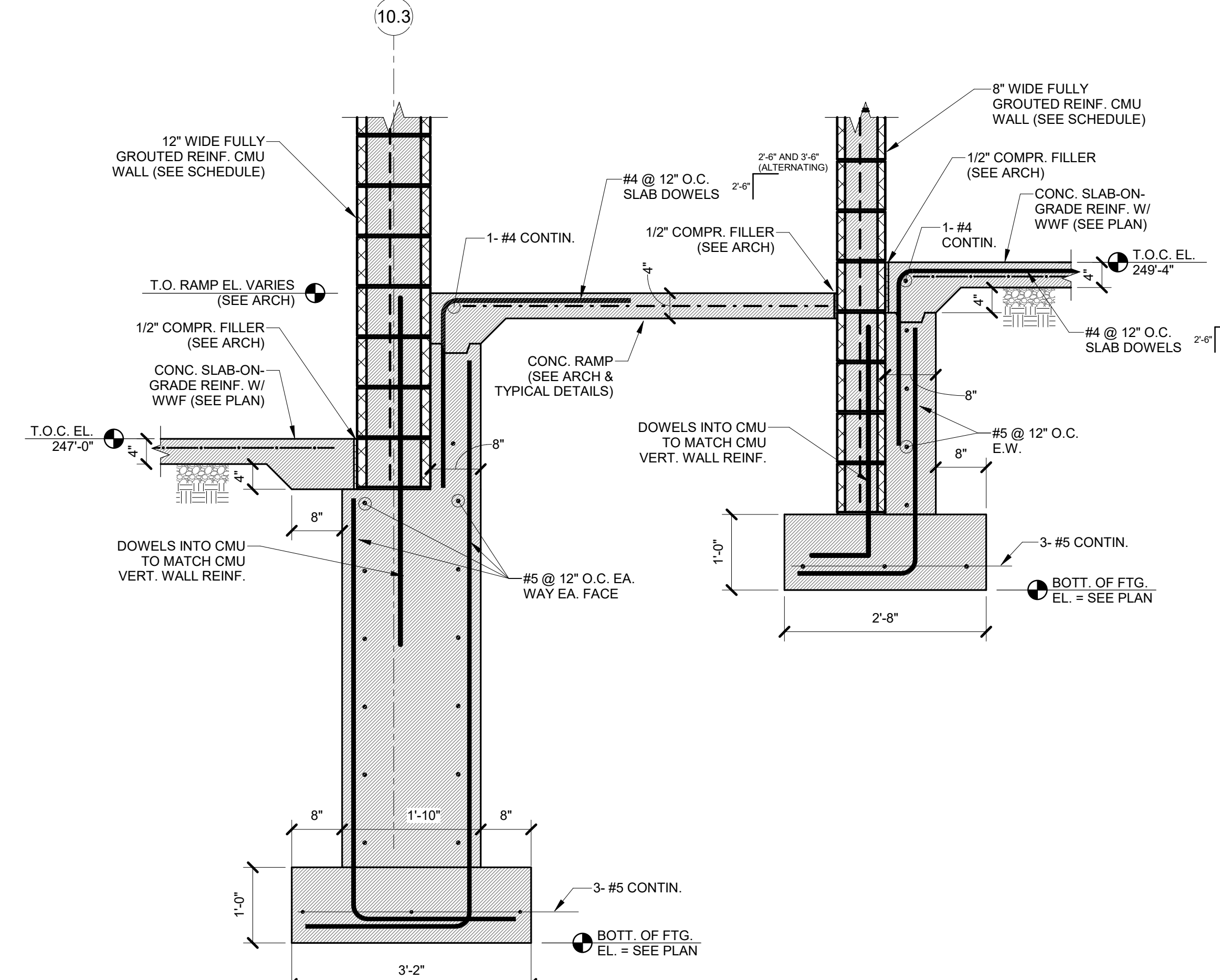
SECTION 8
3/4" = 1'-0"



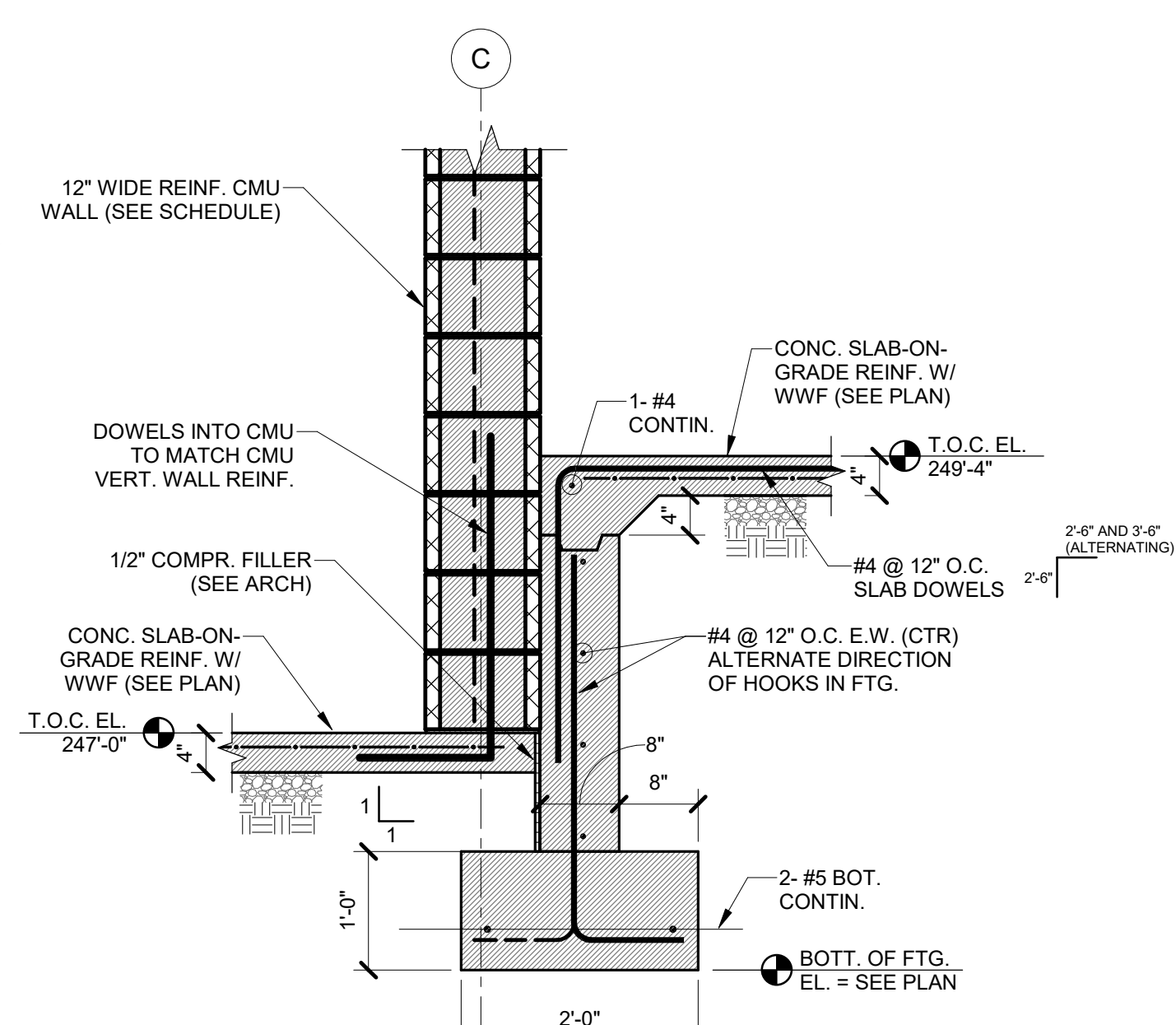
SECTION 9
3/4" = 1'-0"



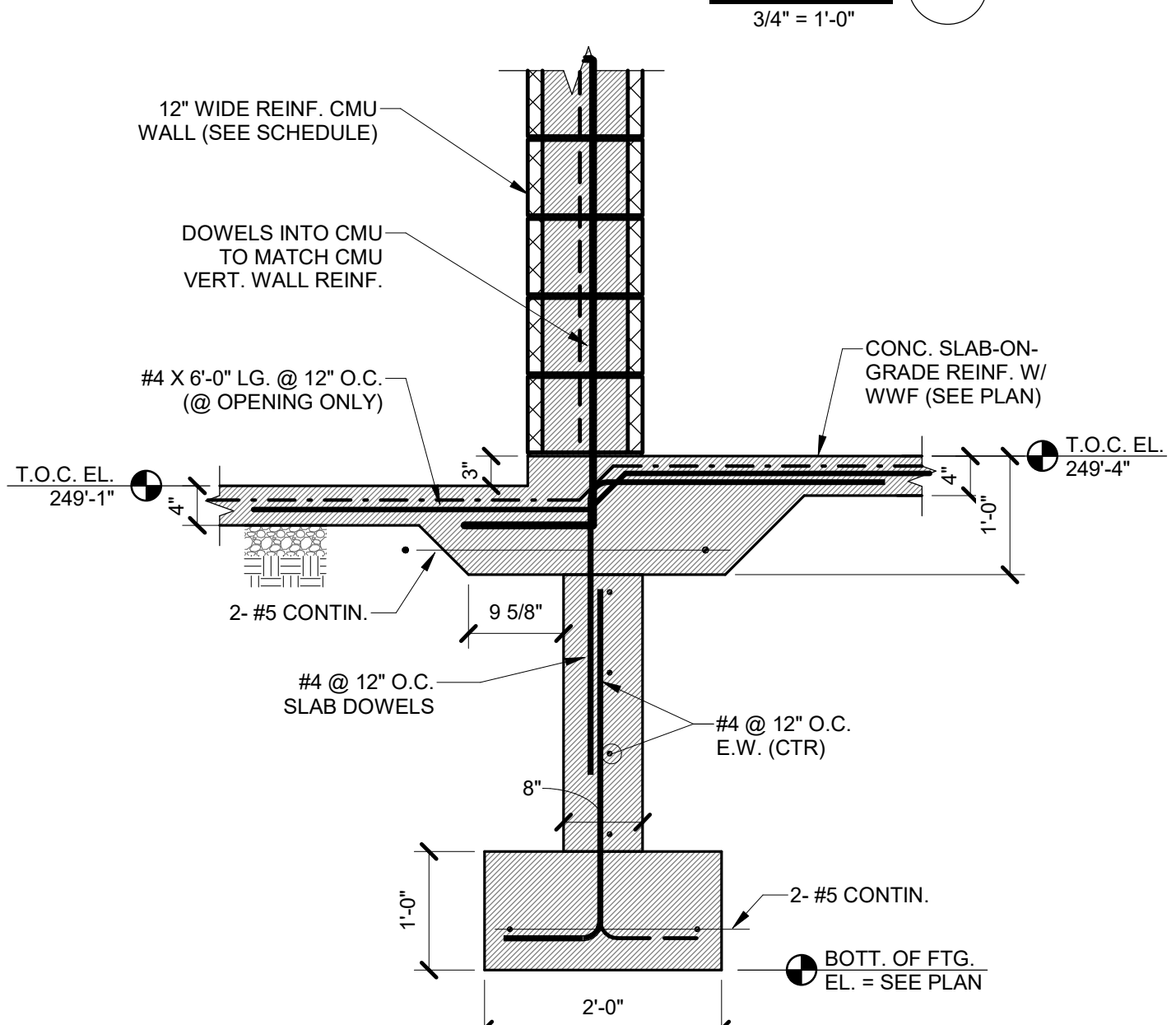
SECTION 10
3/4" = 1'-0"



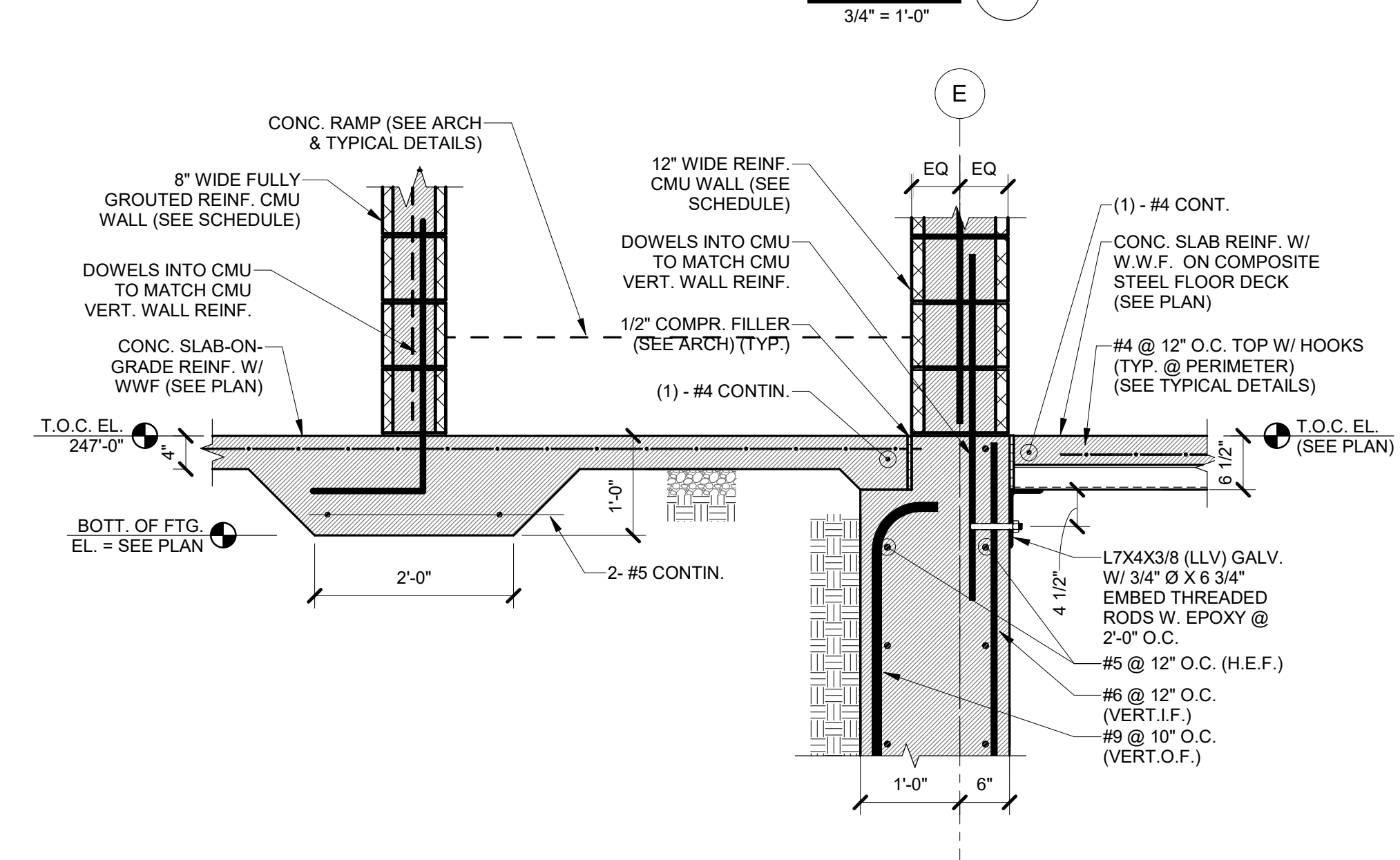
SECTION 11
3/4" = 1'-0"



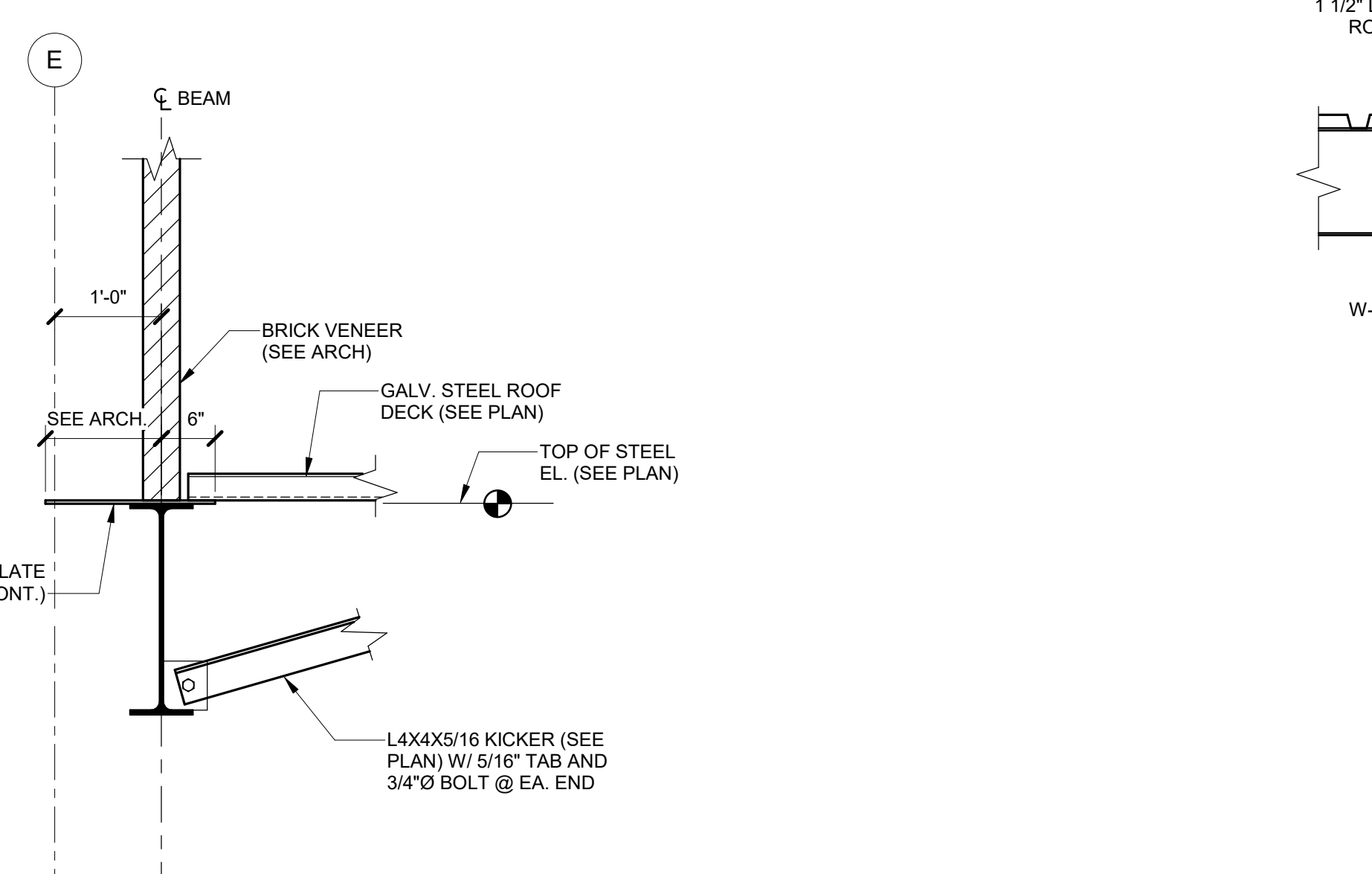
SECTION 12
3/4" = 1'-0"



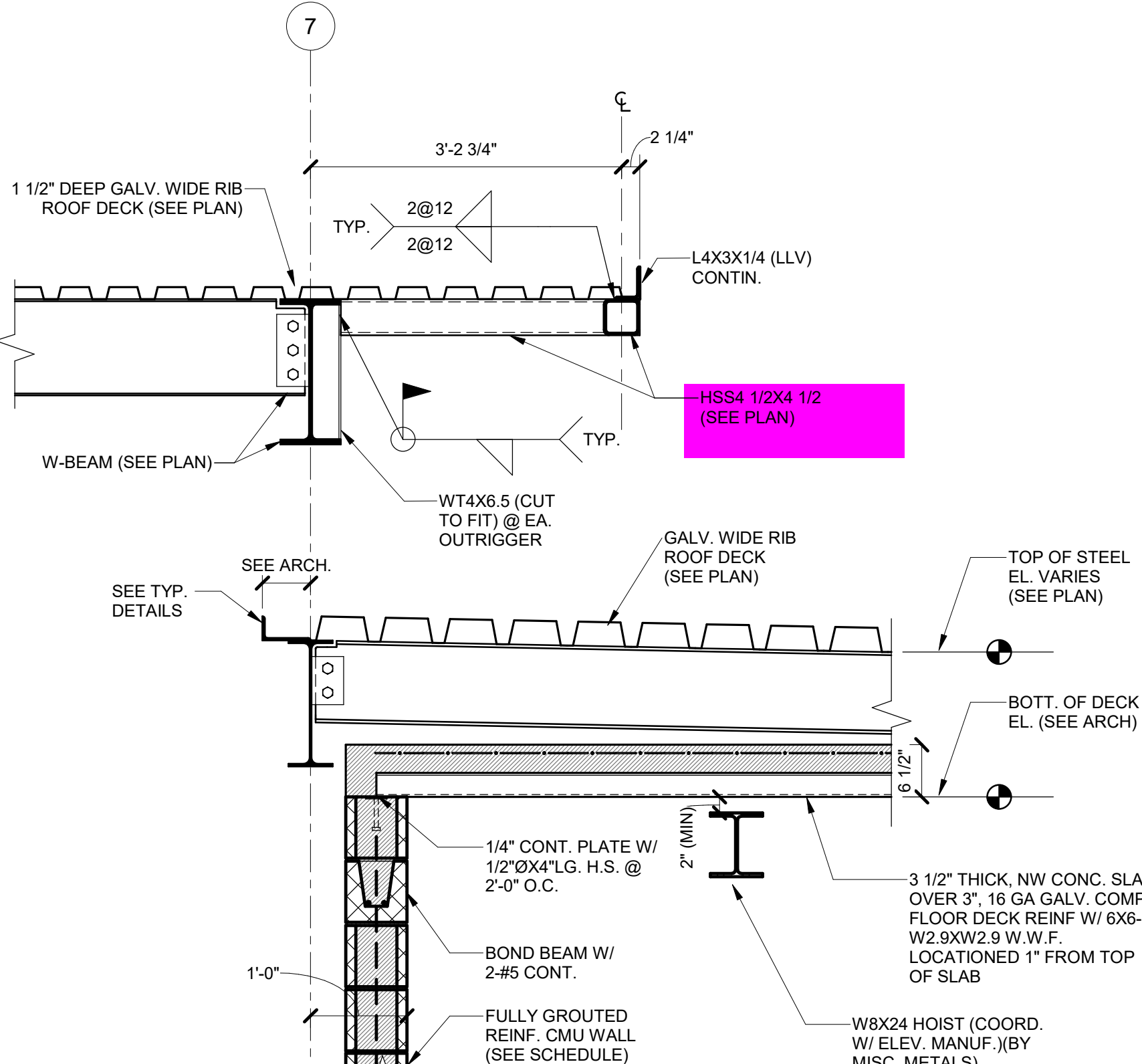
SECTION 13
3/4" = 1'-0"



SECTION 14
3/4" = 1'-0"



SECTION 15
3/4" = 1'-0"



SECTION 16
3/4" = 1'-0"

JOISTS

NOTES :

LL DEFL **L/240**

TL DEFL

JOIST SPACING

[illegible]