- THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND DESIGN FOR THE COMPLETED PROJECT. ARCHITECTURAL DETAILS AND OTHER COMPONENTS THAT MAY BE NECESSARY TO CONSTRUCT THE PROJECT ARE SHOWN INCIDENTALLY ONLY AND NOT COMPLETELY. THEREFORE, ALL CONTRACT DRAWINGS AND SPECIFICATIONS MUST BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION. DISCREPANCIES BETWEEN STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS, IF NOT CLARIFIED IN THE ADDENDA AT THE REQUEST OF THE CONTRACTOR, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING CONSTRUCTION FOR CLARIFICATIONS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION IN HIS BID.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT OF ALL DISCREPANCIES BETWEEN DRAWINGS OF DIFFERENT TRADES PRIOR TO INITIATION OF ANY WORK.
- G3. THE DESIGN IS IN ACCORDANCE WITH THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE.
- G4. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ADJACENT STRUCTURES. PROPERTY, AND THE PUBLIC. THE CONTRACTOR SHALL SHORE, BRACE, AND PROTECT THE EXISTING BUILDING AS REQUIRED FOR CONSTRUCTION OF NEW WORK.
- G.5 REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL CHASES, SLOTS, INSERTS, CURBS, OPENINGS, SLEEVES, ANCHOR BOLTS, FLOOR PITCHES, ANGLE FRAMES, AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATIONS SHALL BE INCLUDED.
- G6. DETAILS SHOWN AS TYPICAL ARE APPLICABLE TO ALL SIMILAR CONDITIONS. G7. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, VISIT

G10. ANY ILLUSTRATION OR DESCRIPTION OF CONSTRUCTION SEQUENCING, TEMPORARY SHORING

- THE SITE, AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO SUBMITTING THE PROPOSAL. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
- G8. DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURE SHOWN ON STRUCTURAL DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH FIELD MEASUREMENTS OF ALL DIMENSIONS AND ELEVATIONS WHICH ARE REQUIRED FOR FABRICATION AND INSTALLATION OF ADDITIONS TO EXISTING STRUCTURE THAT ARE BEING MADE UNDER THIS CONTRACT.
- G9. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS INCLUDING BUT NOT LIMITED TO TEMPORARY SHORING AND BRACING OF NEW AND EXISTING CONSTRUCTION TO MAINTAIN STRUCTURAL STABILITY FOR ALL CONDITIONS OF STATIC, DYNAMIC, GRAVITY, AND WIND LOADS DURING DEMOLITION PROCEDURES. REPAIR PROCEDURES. AND NEW CONSTRUCTION PROCEDURES THROUGHOUT THE DURATION OF THE CONSTRUCTION CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF TEMPORARY SHORING INCLUDING ENGINEERING BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTIONRELATED SAFETY MEASURES.
- SEQUENCE, OR TEMPORARY SHORING SYSTEM, AS SHOWN ANYWHERE IN THE CONTRACT DOCUMENTS (DRAWINGS AND/OR SPECIFICATIONS) IS PROVIDED TO THE CONTRACTOR ONLY FOR ILLUSTRATION OF A POSSIBLE METHOD OR SEQUENCE OF ACCOMPLISHING THE WORK, TO DEMONSTRATE FEASIBILITY IN PRINCIPLE ONLY, UNLESS OTHERWISE NOTED. SUCH ILLUSTRATIONS OR DESCRIPTIONS OF CONSTRUCTION SEQUENCING OR TEMPORARY SHORING IN THE CONTRACT DOCUMENTS ARE DEEMED SUGGESTIONS FOR CONSIDERATION ONLY BY THE CONTRACTOR AND ARE NOT ENDORSED BY THE ARCHITECT OR ENGINEER AND ARE NOT INTENDED TO DICTATE TO THE CONTRACTOR CONSTRUCTION MEANS AND METHODS OR SEQUENCING FOR THE WORK, UNLESS OTHERWISE NOTED. THE SELECTION, DETAILS AND EXECUTION OF ALL CONSTRUCTION MEANS, METHODS AND/OR SEQUENCING OF THE CONSTRUCTION WORK ARE SOLELY THE CHOICE AND RESPONSIBILITY OF THE CONTRACTOR. SUCH ILLUSTRATIONS OR DESCRIPTIONS OF CONSTRUCTION SEQUENCING OR TEMPORARY SHORING IN THE CONTRACT DOCUMENTS ARE SHOWN ONLY FOR THOSE ASPECTS OF THE WORK WHERE COMPLEXITY, UNIQUE CONDITIONS, OR GLOBAL STABILITY (AS RELATED TO THE PROJECT) WARRANT NOTICE OF VERY SPECIAL ATTENTION REQUIRED BY THE CONTRACTOR. SUCH ILLUSTRATIONS OR DESCRIPTIONS OF CONSTRUCTION SEQUENCING OR TEMPORARY SHORING IN THE CONTRACT DOCUMENTS ARE NOT TO BE INTERPRETED IN ANY WAY AS LIMITING THE WORK REQUIRING SEQUENCING OR TEMPORARY SHORING TO ONLY THOSE ASPECTS ILLUSTRATED OR DESCRIBED. AS PART OF THE BASE CONTRACT WORK, THE CONTRACTOR SHALL IDENTIFY, PLAN FOR, ENGINEER AND DETAIL, AND PROVIDE ALL CONSTRUCTION SEQUENCING AND TEMPORARY SHORING AS NECESSARY TO SAFELY AND SUCCESSFULLY EXECUTE ALL THE WORK ENCOUNTERED FOR THIS PROJECT.

FOUNDATION NOTES

- F1. THE FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY LAHLAF GEOTECHNICAL CONSULTANTS, INC. JULY 20, 2020. REFER TO BORING LOGS AND TEST PIT DATA IN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- F2. FOOTINGS SHALL BEAR TYPICALLY ON IMPROVED INSITU FILL AND ORGANIC SOILS, ON UNDISTURBED NATURAL SOIL OR COMPACTED STRUCTURAL FILL PLACED OVER UNDISTURBED NATURAL SOILS HAVING A MINIMUM BEARING CAPACITY OF 2 TONS PER SQUARE FOOT. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- F3. ALL BACKFILL UNDER STRUCTURAL SLABS, MATS, AND FOOTINGS WILL BE ENGINEERED STRUCTURAL FILL COMPACTED IN SPECIFIED LIFTS TO 95 PERCENT OF MAXIMUM DRY DENSITY, UNLESS OTHERWISE INDICATED
- OR SPECIFIED. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- F4. PROVIDE SHEETING, BRACING, AND UNDERPINNING AS REQUIRED TO PRESERVE ADJACENT STRUCTURES.
- F5. FOUNDATIONS AND SLABS SHALL NOT BE POURED IN WATER OR ON FROZEN GROUND.
- VERIFY LOCATIONS AND REQUIREMENTS FOR INSERTS. SLEEVES, CONDUITS, EMBEDMENTS, AND PENETRATIONS WITH RESPECTIVE TRADES BEFORE PLACING CONCRETE.
- F7. BLASTING, IF REQUIRED, SHALL BE COMPLETED BEFORE ANY CONCRETE IS PLACED.
- DOWELS FROM FOUNDATIONS INTO PIERS, PILE CAPS, COLUMNS, BUTTRESSES, OR WALLS SHALL BE THE SAME SIZE AND NUMBER AS REINFORCEMENT IN PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE, EXCEPT AS OTHERWISE SHOWN.
- CONTRACTOR SHALL PROVIDE CONTINUOUS DRAINAGE BY MECHANICAL METHODS TO CONTROL SURFACE AND UNDERGROUND WATER, AS REQUIRED DURING CONSTRUCTION. REFER TO
- EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. F10. CONTRACTOR SHALL ENSURE THAT GROUND WATER LEVELS UNDER ADJACENT STRUCTURES AND PROPERTIES
- ARE NOT ALTERED. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. F11. ALL FOUNDATIONS UNITS (PIERS AND FOOTINGS) SHALL BE CENTERED UNDER SUPPORT MEMBERS,
- F12. COORDINATE UNDER FLOOR AND PERIMETER DRAIN REQUIREMENTS WITH ARCHITECTURAL CIVIL, AND PLUMBING DRAWINGS.
- F13. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, BORING LOGS, OR TEST PITS. THIS DATA IS INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY OF THOSE SPECIFIED LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.
- F14. CONTRACTOR SHALL INFORM THE ARCHITECT AND RELOCATE ANY EXISTING UTILITY LINES AS REQUIRED THAT MAY INTERFERE WITH NEW FOUNDATIONS. CONTRACTOR SHALL REMOVE ANY EXISTING UTILITY LINES THAT ARE BEING ABANDONED IN THE VICINITY OF THE NEW FOUNDATION AND BACKFILL THE AREA WITH COMPACTED STRUCTURAL FILL.
- F15. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND OTHER SPECIFIC FOUNDATION CONSTRUCTION REQUIREMENTS.

REINFORCED CONCRETE NOTES

UNLESS NOTED OTHERWISE ON PLANS.

- R1. ALL CONCRETE WORK SHALL CONFORM TO ACI-318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND TO THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE. IN CASE OF CONFLICT, THE MASSACHUSETTS STATE BUILDING CODE SHALL GOVERN.
- R2. ALL CONCRETE SHALL BE CONTROLLED, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY, PROVIDED BY OWNER.
- R3. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 5,000 PSI 28 DAY COMPRESSION STRENGTH AND CONTAIN AN AIR ENTRAINMENT ADMIXTURE.
- R4. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 POUNDS PER SQUARE INCH AT THE END OF 28 DAYS. CONCRETE SLABS ON GRADE AND SUPPORTED CONCRETE SLABS SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 POUNDS PER SQUARE INCH AT THE END OF 28 DAYS. CONCRETE SLABS ON STEEL DECK SHALL BE NORMAL WEIGHT CONCRETE AS INDICATED ON PLANS WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT THE END OF 28 DAYS.
- R5. CONCRETE QUALITY IN ACCORDANCE WITH THE REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS IS ESSENTIAL TO THE STRUCTURAL PERFORMANCE OF THIS BUILDING. CONCRETE THAT IS NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS WILL NOT BE ACCEPTED
- R6. CONCRETE SHALL REACH THE 40 PERCENT OF ITS 28 DAY COMPRESSIVE STRENGTH (fc) BEFORE FORMS OR SHORES FOR WALLS MAY BE REMOVED. NO FORMS CAN BE REMOVED UNLESS CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT.
- R7. CONSTRUCTION JOINT LOCATIONS, OTHER THAN SHOWN ON THE DRAWINGS, ARE PERMITTED SUBJECT TO PRIOR APPROVAL OF THE ENGINEER. EXPANSION JOINT AND CONTROL JOINT LOCATIONS ARE MANDATORY, AS SHOWN.
- REINFORCING BARS SHALL CONFORM TO ASTM A615 WITH 60,000 POUNDS PER SQUARE INCH YIELD STRENGTH, AS INDICATED AND SHALL HAVE THE FOLLOWING CONCRETE COVER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
 - SURFACES PLACED IN CONTACT WITH THE GROUND 3" FORMED SURFACE EXPOSED TO GROUND - 2" INSIDE FACE OF FORMED WALL - 1 1/2" WALL PIER TIES - 1 1/2" SLAB REINFORCING - 3/4" TOP & BOTTOM
- R9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185; LAP TWO SQUARES AT ALL SPLICES AND TIE AT 3 FOOT CENTERS.
- R10. ALL LAP REINFORCING TO DEVELOP FULL TENSION CAPACITY OF THE SMALLER

BAR REINFORCEMENT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

- R11. PROVIDE BAR SUPPORTS, SPACES, AND ACCESSORIES RECOMMENDED IN THE LATEST ADDITION OF THE ACI DETAILING MANUAL, PUBLICATION SP-66. ALL REINFORCEMENT DETAILING, LAP SPLICES, AND EMBEDMENTS SHALL CONFORM TO THIS MANUAL. ALL ACCESSORIES, SUCH AS SLAB BOLSTERS AND BEAM AND SLAB CHAIRS IN CONTACT WITH EXPOSED SURFACES, SHALL BE ZINC COATED OR PLASTIC TYPE.
- R12. PIPES OR CONDUITS SHALL NOT BE PLACED IN SLABS ON GRADE OR ELEVATED SLABS.
- R13. CONCRETE WALLS SHALL BE CAST IN PANELS NOT EXCEEDING 60 FEET IN LENGTH.

REINFORCED CONCRETE NOTES (CONT)

- R14. DETAILING OF REINFORCEMENT SHALL BE ACCORDING TO THE LATEST EDITION OF ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
- R15. SET SECURELY AND TIE ALL REINFORCEMENT BEFORE PLACING CONCRETE. SETTING DOWELS AND REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.
- R16. ALL REINFORCING WILL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- R17. FOR CONCRETE FILL AND TOPPINGS, PLACE CONSTRUCTION AND EXPANSION JOINTS AT THE SAME LOCATION AS THE CONSTRUCTION AND EXPANSION JOINTS IN THE SUPPORTING CONCRETE.
- R18. BUILD ALL CONCRETE MAT FOUNDATIONS, BASE SLABS, WALLS, AND FLOORS TO MINIMIZE THE EFFECTS OF SHRINKAGE BY CASTING ALTERNATE SECTIONS. ADJACENT SECTIONS MAY BE CAST WHEN PREVIOUSLY PLACED SECTION HAS CURED FOR 48 HOURS AFTER ITS INITIAL SET. CURING REQUIREMENTS ARE
- R19. EXPOSED EDGES OF CONCRETE ELEMENTS, SUCH AS PILASTERS, CURBS, AND EQUIPMENT PADS, WILL HAVE 1 INCH CHAMFER.

SPECIFIED IN SECTION 03300, CAST-IN-PLACE CONCRETE OF THE SPECIFICATIONS.

- R20. ALL KEYS SHALL BE 2"x4" (NOMINAL) UNLESS SHOWN OTHERWISE ON DRAWINGS.
- OPENINGS INDICATED, OR ANY ADDITIONAL OPENINGS OR INSERTS REQUIRED, SHALL BE VERIFIED WITH RESPECTIVE TRADES BEFORE POURING OF CONCRETE. R22. USE NON-SHRINK, NON-METALLIC GROUT WHERE INDICATED. SEE SECTION 03300, CAST-IN-PLACE CONCRETE

R21. NOT ALL OPENINGS THROUGH CONCRETE SLABS AND WALLS ARE SHOWN ON STRUCTURAL DRAWINGS.

- OF THE SPECIFICATIONS FOR ALL THE REQUIREMENTS.
- R23. SEE ARCHITECTURAL DRAWINGS FOR FINISHES, DEPRESSIONS, REGLETS, NOTCHES, AND OTHER ARCHITECTURAL FEATURES.
- R24. PROVIDE SEALANT JOINTS FOR ALL EXPOSED TO VIEW CONSTRUCTION JOINTS, CONTROL JOINTS, AND SHEAR KEYS.
- R25. SET ANCHOR BOLTS AND EMBEDDED PLATES REQUIRED FOR CONNECTION OF WORK FURNISHED BY OTHER TRADES FOR INSTALLATION AS PART OF THEIR SCOPE OF WORK.
- R26. PROVIDE A MINIMUM OF #4 AT 12 EACH WAY, EACH FACE FOR ALL WALLS, FOOTINGS, PITS. OR PADS. UNLESS NOTED OTHERWISE.
- R27. PROVIDE CONCRETE PADS FOR MECHANICAL EQUIPMENT ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND IN ACCORDANCE WITH THE TYPICAL DETAILS. ALWAYS PROVIDE A MINIMUM REINFORCEMENT FOR PADS, UNLESS NOTED OTHERWISE.
- R28. PROVIDE CONDENSATE PITS AND OTHER DEPRESSIONS OR CURBS AS REQUIRED FOR COMPLETION OF THE MECHANICAL WORK.

COORDINATE LOCATIONS WITH MECHANICAL WORK.

- R29. NO CONCRETE SHALL BE PLACED BEFORE REVIEW AND APPROVAL OF THE REINFORCING AND EMBEDDED ITEMS HAVE BEEN OBTAINED FROM THE ARCHITECT / ENGINEER.
- R30. WHEN REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE THOSE IN THE BOTTOM LAYER WITH A CLEAR DISTANCE BETWEEN THE LAYERS NOT LESS THAN ONE INCH.
- R31. FLOOR SLOPES WILL BE AN INTEGRAL PART OF STRUCTURAL SLABS. SEPARATE CONCRETE FILL IS NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS. CONCRETE CAST ON SLOPED SURFACES, SHALL BEGIN AT THE LOWEST ELEVATION AND CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATIONS UNTIL THE INTENDED POUR IS COMPLETED.

REINFORCED CONCRETE MASONRY

CODE SHALL GOVERN

- ALL REINFORCED CONCRETE MASONRY SHALL CONFORM TO ACI 530 -13 " BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI-530.1-13 "SPECIFICATION FOR MASONRY STRUCTURES" FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING. CONCRETE MASONRY AND TO THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE. IN CASE OF CONFLICT, THE MASSACHUSETTS STATE BUILDING
- M2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE I, NORMAL WEIGHT WITH AN AVERAGE MINIMUM COMPRESSIVE
- STRENGTH OF 2,000 POUNDS PER SQUARE INCH ON THE NET AREA. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, AND SHALL DEVELOP A
- COMPRESSIVE STRENGTH OF 1,800 POUNDS PER SQUARE INCH AT 28 DAYS. GROUT SHALL CONFORM TO ASTM C476, FINE TYPE, AND SHALL HAVE A MINIMUM 28 DAY
- COMPRESSIVE STRENGTH OF 2.500 POUNDS PER SQUARE INCH. M5. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60
- TYPICALLY, REINFORCING BARS BEING WELDED SHALL CONFORM TO A706, GRADE 60. DEFORMED HORIZONTAL TRUSS REINFORCING MATERIAL SHALL CONFORM TO ASTM A82 AND SHALL HAVE MINIMUM CROSS-SECTIONAL AREAS INDICATED ON PLANS OR IN SECTIONS.
- M6. PROVIDE HORIZONTAL AND VERTICAL REINFORCING AS NOTED ON THE DRAWINGS AND FILL ALL REINFORCED BLOCK CELLS WITH GROUT.
- WALLS SHALL BE GROUTED USING LOW LIFT GROUT METHOD AND LIMITING THE GROUT LIFT HEIGHT TO 4' - 0" AT LOCATION OF THE BOND BEAM.
- REINFORCE CMU AT ALL ELEVATORS, STAIRS, AND MEANS OF EGRESS AND EXTERIOR WALLS WITH A MINIMUM #7 @ 48" ON CENTER VERTICALLY.
- M9. PROVIDE 48 DIAMETER LAPS FOR ALL REINFORCING UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL NOTES

ALL STEEL WORK SHALL CONFORM TO THE AISC 360-10 SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND TO THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE. IN CASE OF

HAVING A MINIMUM YIELD STRENGTH OF 50 KSI, UNLESS OTHERWISE NOTED.

- CONFLICT, THE MASSACHUSETTS STATE BUILDING CODE SHALL GOVERN.
- S2. THE STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING: ALL STRUCTURAL WIDE FLANGE SHAPES: ASTM A992 FY = 50KSI,
- BARS, PLATES, CHANNELS, AND CONNECTION ANGLES: ASTM A36, UNLESS NOTED OTHERWISE. STRUCTURAL TUBES: ASTM A500, GRADE C. FY = 50KSI. STRUCTURAL PIPES: ASTM A53, GRADE B OR ASTM A501.
- ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554. S3. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1 STRUCTURAL WELDING CODE.
- BOTTOM OF DECK ELEVATIONS REFER TO TOP ELEVATION OF SUPPORTING ELEMENT INCLUDING JOISTS, BEAMS, PLATES, TEES, ANGLES, ETC.
- TOP-OF-STEEL ELEVATIONS INDICATED ON THE DRAWINGS REFER TO TOP OF TOP-BEAM FLANGE UNLESS NOTED OTHERWISE ON PLANS.
- DESIGN AND DETAIL OF ALL CONNECTIONS SHALL BE ACCORDING TO AISC. THE BEAM CONNECTION DESIGN SHOULD ACCOUNT FOR REACTIONS OF MEMBERS SUPPORTED BY THE BEAM NEAR SUPPORTS CONCENTRATED LOADS WITHIN ONE THIRD THE SPAN OF THE
- BRACING MEMBERS FRAMING INTO THE MEMBERS. ALL CONNECTIONS SHALL BE BOLTED WITH ASTM A325 HIGH-STRENGTH BOLTS OR WELDED IN

BEAM CLOSER TO THE SUPPORT AND/OR VERTICAL COMPONENTS OF FORCE IN DIAGONAL

ACCORDANCE TO AWS AND WITH THE AISC MANUAL REQUIREMENTS UNLESS NOTED OTHERWISE. S9. UNLESS OTHERWISE NOTED IN PLAN, DETAIL FLOOR MEMBER CONNECTIONS FOR THE FOLLOWING

FACTORED (LRF	D) VERTICAL REACTION	ONS:	
SHAPE	MINIMUM REA		MINIMUM NUMBER OF
	TO GIRDERS	TO COLUMNS	
W12	30	38	3
W14	38	45	3
W16	45	57	4
W18	54	69	4
W21	69	83	4
W24	86	108	5
W27	105	128	6
W30	128	150	7
W33	150	180	8
W36/W40	180	220	9

- S10. SHOP CONNECTIONS MAY BE BOLTED OR WELDED, UNLESS THE CONNECTION METHOD IS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.
- THE CONTRACTOR SHALL SUPPLY ALL PLATES, CLIPS, SET ANGLES, CONNECTIONS, ETC, AS REQUIRED FOR COMPLETION OF THE STRUCTURE, EVEN IF SUCH ITEMS ARE NOT EXPLICITLY CALLED FOR ON THE
- ARCHITECTURAL OR STRUCTURAL DRAWINGS. S12. THE CONTRACTOR SHALL PROVIDE ALL EMBEDDED PLATES, SLEEVES, BOX-OUTS, CONDUITS, ETCETERAS, AS
- S13. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD NEW STRUCTURE FOR WIND AND CONSTRUCTION LOADS. THE STEEL FRAME IS A NON-SUPPORTING STEEL FRAME IN ACCORDANCE WITH SECTION 7.9.3 OF THE AISC CODE OF STANDARD PRACTICE IT RELIES ON THE INTERACTION BETWEEN THE METAL ROOF DECK. THE CONCRETE COMPOSITE FLOOR. BRACED FRAMES, AND MASONRY SHEAR WALLS FOR STABILITY. THE CONTRACTOR IS TO PROVIDE TEMPORARY
- SUPPORTS UNTIL ALL ELEMENTS REQUIRED FOR STABILITY OF THE STEEL FRAME ARE COMPLETED. S14. PROVIDE ANCHOR BOLTS, SETTING PLATES, AND EMBEDDED PLATES TO BE SET BY OTHERS.

REQUIRED BY OTHER TRADES IN THE CONCRETE STRUCTURE.

S15. PROVIDE 1/4" THICK LEVELING PLATES FOR USE IN ALIGNING AND SETTING ANCHOR BOLTS AND BASE PLATES.

S16. MOMENT CONNECTIONS BETWEEN BEAMS AND COLUMNS INDICATED ON THE DRAWINGS SHALL BE DESIGNED

- AND DETAILED FOR THE FULL MOMENT CAPACITY OF THE CONNECTING MEMBERS, UNLESS NOTED OTHERWISE. S17. ALL TUBE STEEL COLUMN CAP PLATES ARE TO BE 1/2" THICK MINIMUM EXCEPT MOMENT FRAMED COLUMNS
- ARE TO BE 3/4" THICK MINIMUM OR MATCH BEAM FLANGE, WHICH EVER IS GREATER, UNLESS OTHERWISE NOTED. S18. PROVIDE 1/4" THICK CLOSURE PLATES AT ALL OPEN ENDED TUBE STEEL MEMBERS.

THAN 1:24, PROVIDE STEEL SHIMS FOR ADEQUATE BEARING OF STEEL DECK.

S19. STEEL FRAMING SHALL NOT BE CANTED UNLESS SPECIFICALLY NOTED AS "CANTED" ON THE STRUCTURAL DRAWINGS. WHERE THE DECK SLOPE ACROSS THE BEARING SURFACE IS GREATER

STEEL JOIST NOTES

- SJ1. ALL STEEL JOISTS SHALL CONFORM TO SJI K-10 "STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS K-SERIES", AND TO SJI LH/DLH-10 "STANDARD SPECIFICATION FOR LONGSPAN STEEL JOISTS LH-SERIES AND DEEP LONGSPAN STEEL JOISTS DLH-SERIES" OF THE STEEL JOIST INSTITUTE AND TO THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE. IN CASE OF CONFLICT, THE MASSACHUSETTS STATE BUILDING CODE SHALL GOVERN.
- SJ2. ALL WELDING WILL BE IN ACCORDANCE WITH THE AWS D1.1 STRUCTURAL WELDING CODE.
- SJ3. TOP AND BOTTOM CHORD OF ALL JOISTS SHALL BE OF DOUBLE ANGLES. SJ4. STARTING POINTS FOR ALL JOIST SPACING ARE BASED ON A JOIST OCCURRING AT COLUMN CENTER LINES
- SJ5. ALL CONTINUOUS HORIZONTAL BRIDGING SHALL CONSIST OF TWO MEMBERS WITH ONE MEMBER AT TOP CHORD OF JOIST AND THE OTHER AT THE BOTTOM CHORD OF JOIST. ATTACH BY WELDING AT POINT OF CONTACT WITH EACH JOIST.
- SJ6. ALL BOLTED DIAGONAL BRIDGING SHALL CONSIST OF 2 MEMBERS BOLTED TO TOP CHORD OF JOIST AND

BOTTOM CHORD OR FLANGE OF ADJACENT MEMBER AND BOLTED TOGETHER AT INTERSECTION.

STANDARD FOR NONCOMPOSITE STEEL FLOOR DECK.

SJ7. DESIGN JOISTS AND PROVIDE UPLIFT BRIDGING FOR UPLIFT WIND LOADS AS PER SPECIFICATIONS. PROVIDE BRIDGING AT FIRST BOTTOM CHORD PANEL POINT AT BOTH ENDS OF JOIST.

SD1. ALL STEEL DECK WORK SHALL CONFORM TO THE REQUIREMENTS OF

UNLESS OTHERWISE NOTED ON PLANS.

- RD1 0 10 STANDARD FOR STEEL FLOOR DECK. STANDARD FOR COMPOSITE STEEL FLOOR DECK SLABS. SD1 - QA/QC - 2011 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK, OF THE STEEL DECK INSTITUTE AND THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE.
- SD2. STEEL DECK UNITS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A611, OR A653. WHERE GALVANIZED DECK IS INDICATED, SHEETS SHALL BE COATED WITH A ZINC COATING CONFORMING TO ASTM A653, G-60 COATING FOR FLOOR DECK AND FORM DECK AND G-90

IN CASE OF CONFLICT, THE MASSACHUSETTS STATE BUILDING CODE SHALL GOVERN.

- SD3. STEEL DECKING SHALL BE FASTENED TO ALL SUPPORTING STEEL MEMBERS AS FOLLOWS AND AS SHOWN ON THE STRUCTURAL DRAWINGS:
- FIELD: 5/8" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS AT EACH RIB, 8" ON CENTER: PERIMETER: 3/4" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS AT 8" ON CENTER OPENINGS: 3/4" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS AT 8" ON CENTER CORNERS: TWO EACH 3/4" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS SIDELAPS: NO. 10 TEK SCREWS AT 1'-0" ON CENTER AT SIDELAPS BETWEEN SUPPORTS.
- 2" AND 3" DEEP COMPOSITE DECK: FIELD: 5/8" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS AT EACH RIB, 12" ON CENTER; PERIMETER: 5/8" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS AT 12" ON CENTER OPENINGS: 5/8" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS AT 12" ON CENTER CORNERS: ONE EACH 5/8" DIAMETER ROUND SPOT WELDS TO STEEL SUPPORTS SIDELAPS: NO. 10 TEK SCREWS AT 2'-0" MAXIMUM ON CENTER OR CLOSER TO SUPPORT WET CONCRETE AND CONSTRUCTION LOADS AT SIDELAPS BETWEEN SUPPORTS. SPOT WELDS SHALL BE FULLY JOINED ALL AROUND TO THE DECK . AFTER WELDING, ALL
- ROOF DECK WELDS SHALL BE PAINTED WITH ZRC COLD GALVANIZING COMPOUND. SD4. STEEL DECK SIZES, GAGES, AND MINIMUM PROPERTIES SHALL BE AS

BY THE CONTRACTOR OR SUBCONTRACTOR.

- INDICATED ON DRAWINGS OR IN SPECIFICATIONS. SD5. PROVIDE MINIMUM 16 GAGE SCREED ANGLE OR GREATER WHERE REQUIRED AT PERIMETER OF BUILDING AND ALL OPENINGS IN CONCRETE SLAB ON
- STEEL DECK, UNLESS OTHERWISE NOTED. SD6. HANGING FROM OR ATTACHING TO METAL DECK IS PROHIBITED, ALL DUCTS, PIPES, CONDUITS SHALL BE SUPPORTED FROM STEEL FRAMING OR SUPPLEMENTAL STEEL FRAMING PROVIDED

UNIT PRICES - PROVIDE UNIT PRICES AS PART OF THE BID FOR THE FOLLOWING:

- STRUCTURAL STEEL BEAMS, ANGLES, PLATES, COLUMNS, ETC. THE UNIT PRICE SHALL INCLUDE WEIGHT OF THE STEEL, COST OF DETAILING, FABRICATION, DELIVERY AND INSTALLATION. PROVIDE THE UNIT PRICE FOR THE FOLLOWING, USING UNIT MEASUREMENT AS TON: STRUCTURAL STEEL; UNIT WEIGHT UP TO 15 LB/LF
 - STRUCTURAL STEEL: UNIT WEIGHT 15 TO 30 LB/LF STRUCTURAL STEEL; UNIT WEIGHT 30 TO 60 LB/LF. STRUCTURAL STEEL; UNIT WEIGHT MORE THAN 60 LB/LF
- COST OF REINFORCEMENT OF BEAMS IN THE SHOP FOR PENETRATIONS FOR DUCTS AND OTHER UTILITIES PER DETAIL 4 ON DRAWING S006 AT 10 LOCATIONS. IN ADDITION, PROVIDE UNIT COST OF EACH ADDITIONAL REINFORCEMENT DETAIL AND CREDIT FOR UNIT COST OF EACH DETAIL THAT IS
- REDUCED FROM ALLOWANCE OF 10 UNITS. COST OF PROVIDING UNREINFORCED PENETRATIONS THROUGH STEEL BEAMS FOR DUCTS AND OTHER UTILITIES AT 5 LOCATIONS. IN ADDITION, PROVIDE UNIT COST OF EACH ADDITIONAL PENETRATION AND CREDIT FOR UNIT COST OF EACH DETAIL THAT IS REDUCED FROM ALLOWANCE
- OF 5 PENETRATIONS. FRAMES FOR OPENINGS THROUGH ROOF PER DETAIL 5B AND 6 ON DRAWING S008. IN ADDITION, PROVIDE A UNIT COST IF THESE FRAMES WERE TO BE INSTALLED AFTER ALL OF THE STRUCTURAL STEEL HAS BEEN ERECTED. IN THE BASE BID. ALLOW FOR THE COST OF THIS DETAIL FOR ALL OPENINGS SHOWN IN THE STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. PROVIDE A UNIT COST OR CREDIT FOR EACH DETAIL THAT IS REDUCED FROM THE OPENINGS SHOWN

ON THE STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

- FRAMES FOR OPENINGS THROUGH FLOOR AND ROOF PER DETAIL 4 ON DRAWING S008. IN ADDITION, PROVIDE A UNIT COST IF THESE FRAMES WERE TO BE INSTALLED AFTER ALL OF THE STRUCTURAL STEEL HAS BEEN ERECTED. IN THE BASE BID, ALLOW FOR THE COST OF THIS DETAIL FOR ALL OPENINGS SHOWN IN THE STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. PROVIDE A UNIT COST OR CREDIT FOR EACH DETAIL THAT IS REDUCED FROM THE OPENINGS SHOWN ON THE STRUCTURAL, ARCHITECTURAL,
- COST OF ONE SQUARE FOOT OF VARIOUS TYPES OF DECK SPECIFIED FOR THE PROJECT. THE UNIT PRICE SHALL INCLUDE MATERIAL COST OF THE DECK AND ACCESSORIES, COST OF DETAILING, FABRICATION, DELIVERY AND INSTALLATION.

MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

<u>DESIGN LOADS</u>

- ROOF SNOW LOADS SNOW GROUND LOAD, Pg = 50 PSF MINIMUM FLAT ROOF SNOW LOAD Pf = 30 PSF FLAT ROOF SNOW LOAD Pf = 39 PSF (PARTIALLY EXPOSED) ALLOWANCE FOR DRIFTING PER MASSACHUSETTS STATE BUILDING CODE
- D2. FLOOR LIVE LOADS 150 PSF MIN MECHANICAL ROOMS PUBLIC GATHERING AREAS . 100 PSF 100 PSF STAIRS/LOBBY 125 PSF STORAGE TYPICAL CONCENTRATED LOAD. 1,000 POUNDS FUTURE PHOTOVOLTAIC PANELS.. .40PSF + 15 PSF PARTITIONS CLASSROOMS. LIBRARY READING ROOM CORRIDORS ABOVE FIRST FLOOR. .80PSF CONCENTRATED LOAD IN AUDITORIUM. ...3000 LBS

STAGE LOADING PLATFORM

ELEVATOR MACHINE ROOM..

AS PER THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE, BASIC WIND SPEED 137 M.P.H. EXPOSURE C

.400 PSF

60 PSF

.250 PSF

SDs = 0.174

... CS = 0.073

.. V = 170 KIPS

AS PER THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE SEISMIC DESIGN CATEGORY

SOIL PROFILE TYPE ... SITE CLASS C MAPPED SPECTRAL RESPONSE Ss = 0.232ACCELERATIONS S1 = 0.072

WIND LOADS IN ACCORDANCE WITH ASCE7-10

SPECTRAL RESPONSE COEFFICIENT

DESIGN BASE SHEAR.

SEISMIC RESPONSE COEFFICIENT

BASIC SEISMIC FORCE RESISTING SYSTEMS STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE RESPONSE MODIFICATION FACTOR R = 3.0 DEFLECTION AMPLIFICATION FACTOR .. ANALYSIS PROCEDURE . EQUIVALENT LATERAL FORCE SEISMIC IMPORTANCE FACTOR, I = 1.25 RISK CATEGORY

SD1 = 0.082AREA A AND B: (TOTAL COMBINED) SEISMIC RESPONSE COEFFICIENT ... CS = 0.073 DESIGN BASE SHEAR. V = 320 KIPS

EXPOSED STEEL NOTES:

ALL STEEL WORK INDICATED ON THE STRUCTURAL DRAWINGS IS BY 05 12 00 UNLESS SPECIFICALLY INDICATED TO BE BY 05 50 00 METAL FABRICATIONS.

SPECIAL CARE USED IN THE HANDLING AND FABRICATING OF EXPOSED STEEL INDICATED ON THE DRAWINGS AND AS FOLLOWS:

- 1. LOCATE FIELD JOINTS AT CONCEALED LOCATIONS IF POSSIBLE
- FABRICATE WITH EXPOSED SURFACES SMOOTH, SQUARE AND FREE OF SURFACE BLEMISHES INCLUDING PITTING, RUST, SCALE AND ROUGHNESS.
- GRIND SHEARED, PUNCHED AND FLAME-CUT EDGES TO REMOVE BURRS AND PROVIDE SMOOTH SURFACES AND EDGES
- FABRICATE STEEL WITH EXPOSED SURFACES FREE OF MILL MARKS, INCLUDING ROLLED TRADE NAMES AND STAMPED OR RAISED IDENTIFICATION.
- FABRICATE STEEL WITH EXPOSED SURFACES FREE OF SEAMS TO MAXIMUM EXTENT POSSIBLE.

WITH MEDIA THAT PERMITS FULL REMOVAL AFTER ERECTION.

REMOVE BLEMISHES BY FILLING OR GRINDING OR BY WELDING AND GRINDING, BEFORE CLEANING. TREATING AND SHOP PRIMING.

FABRICATE WITH PIECE MARKS FULLY HIDDEN IN THE COMPLETED STRUCTURE OR MADE

Drummey Rosane Anderson, Inc. 225 Oakland Road 260 Charles Street Studio 205 Studio 300 South Windsor, CT Waltham, MA

NORTHEAST

Planning Architecture Interior

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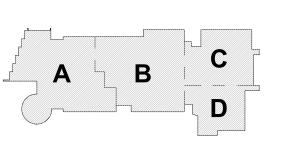
Malden, MA 02148

EDG@EDGINC.COM

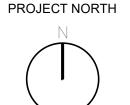
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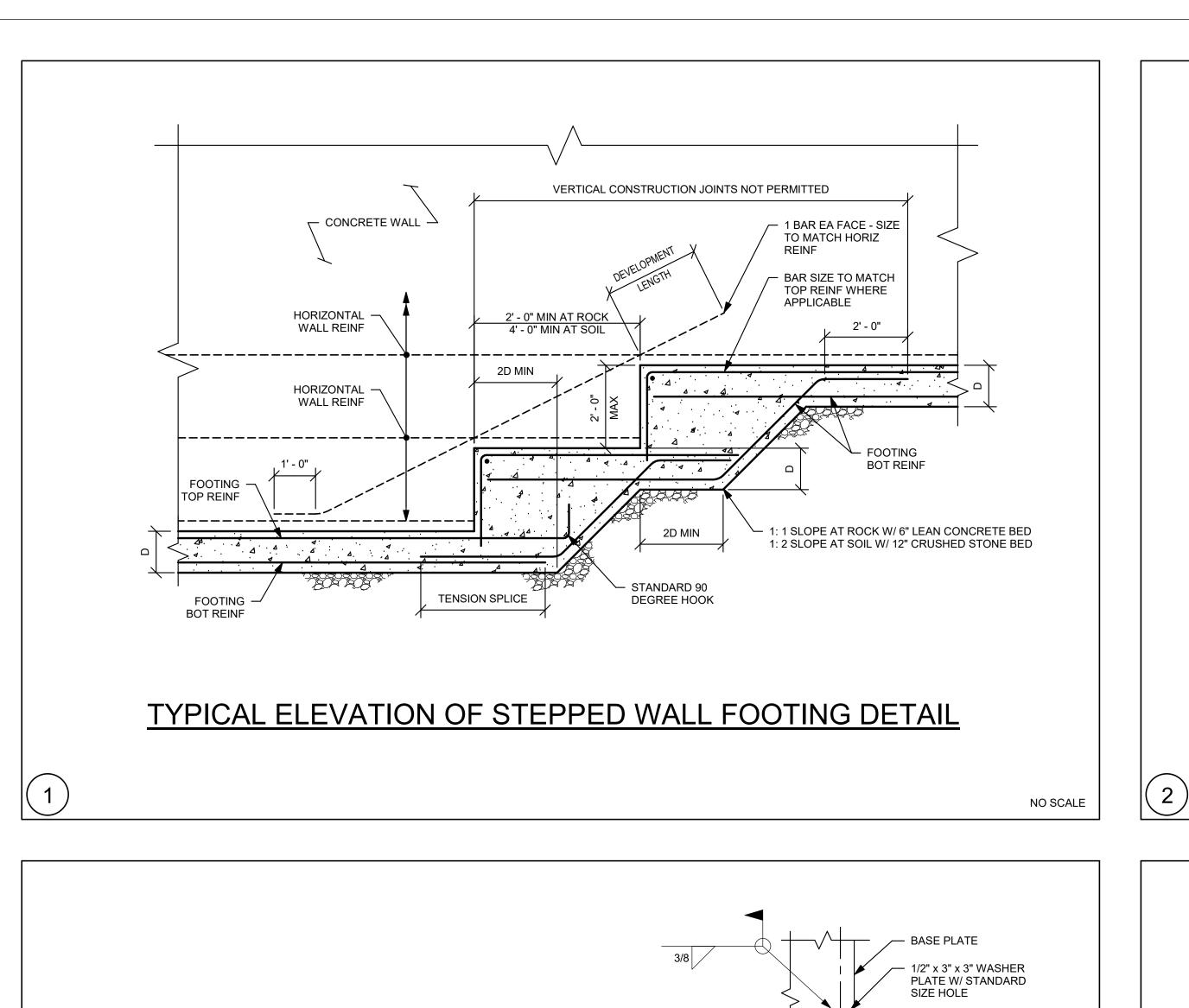


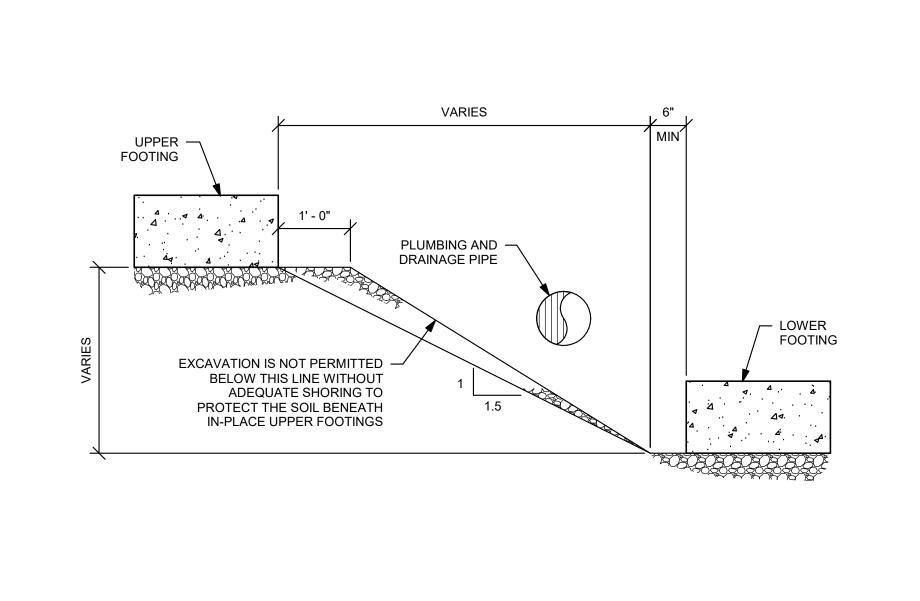
KEY PLAN MAGNETIC NORTH



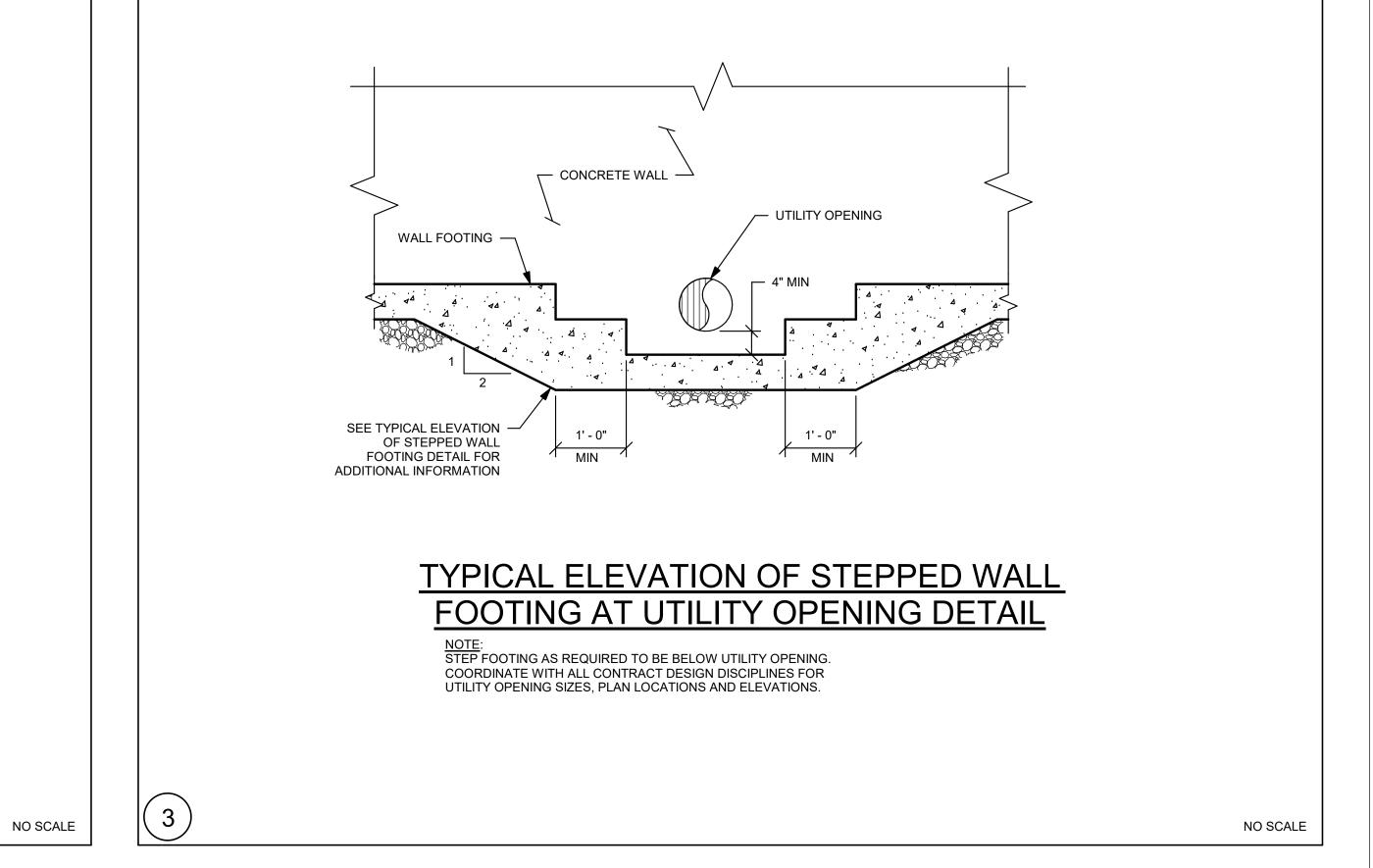
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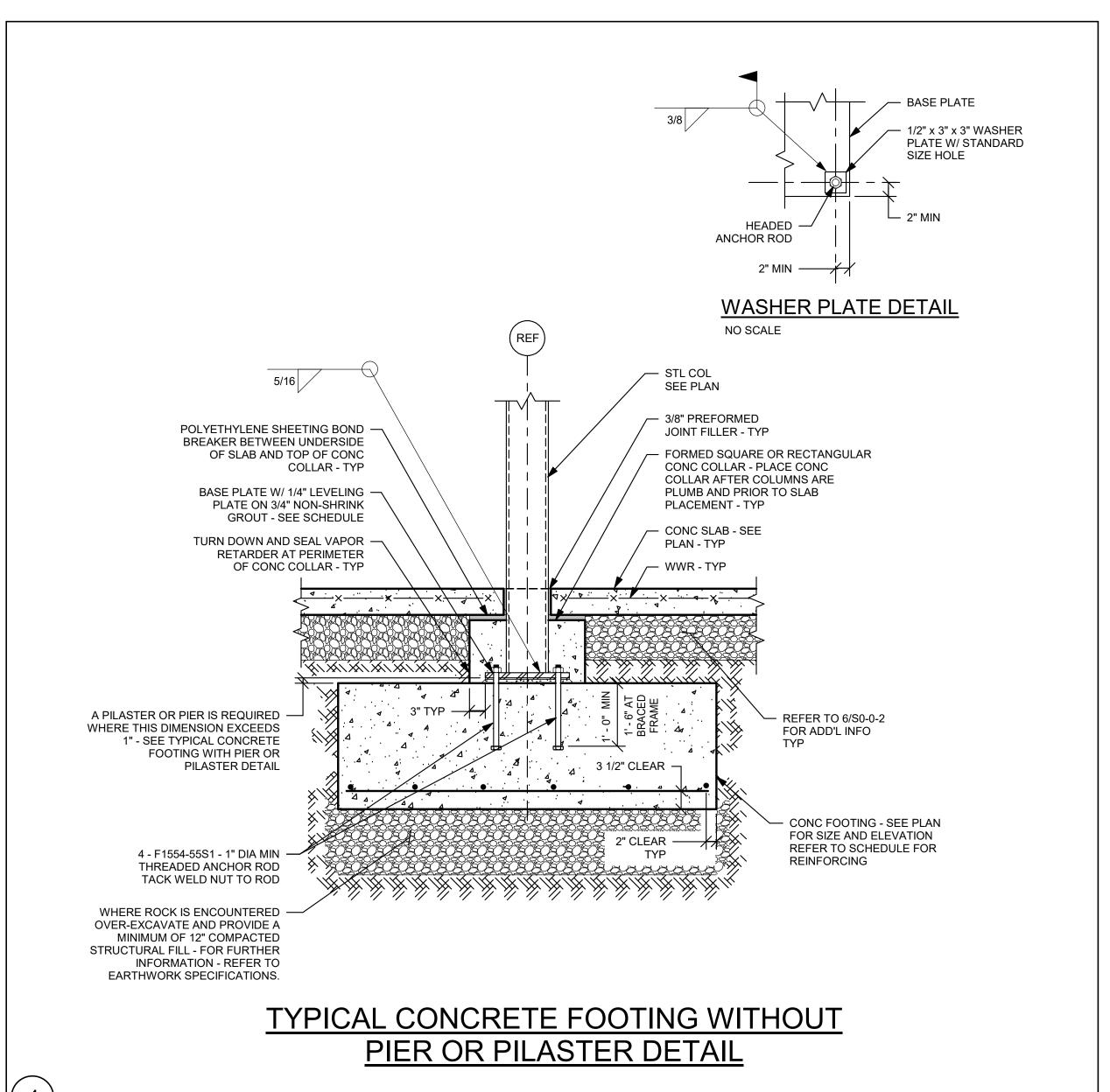
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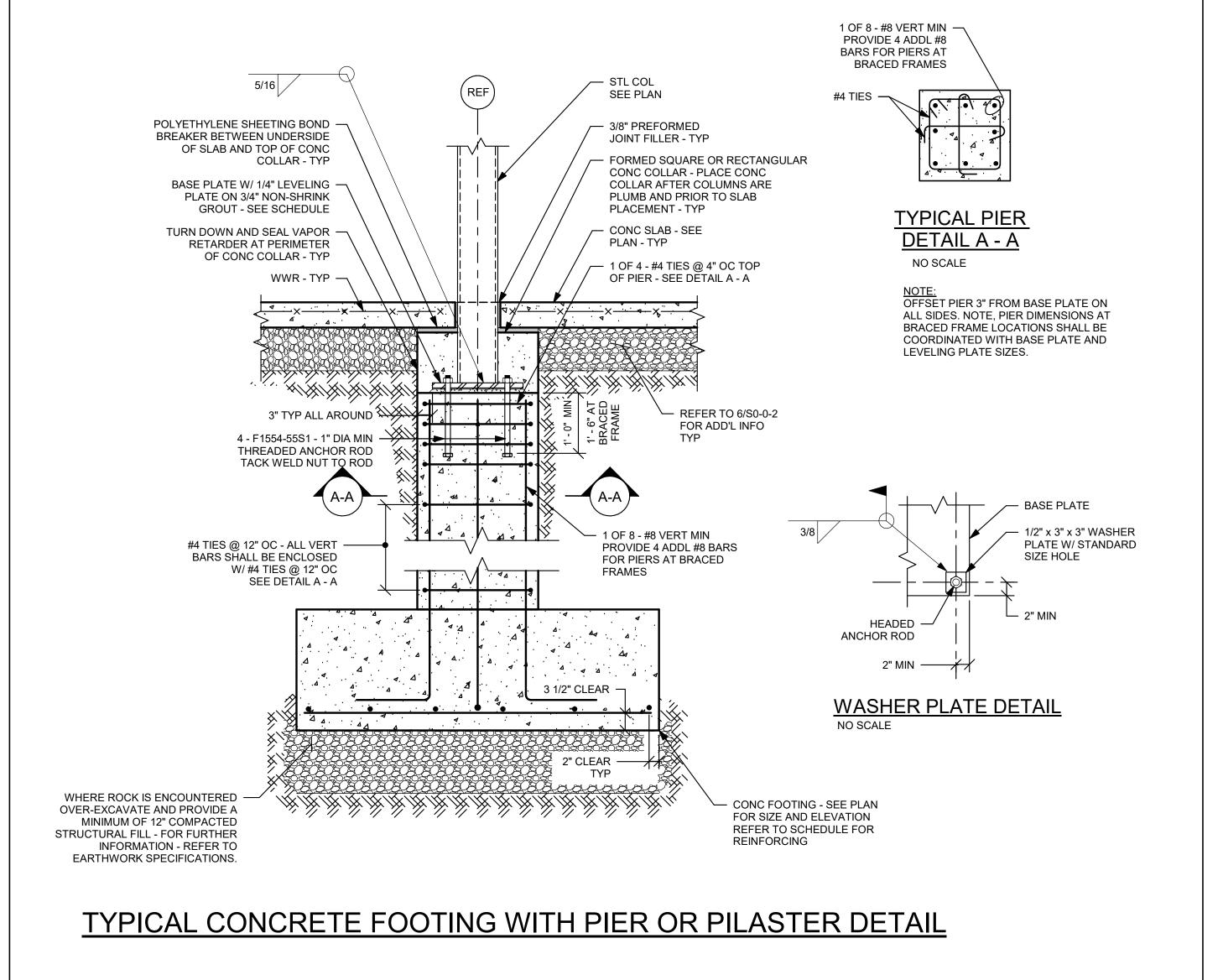


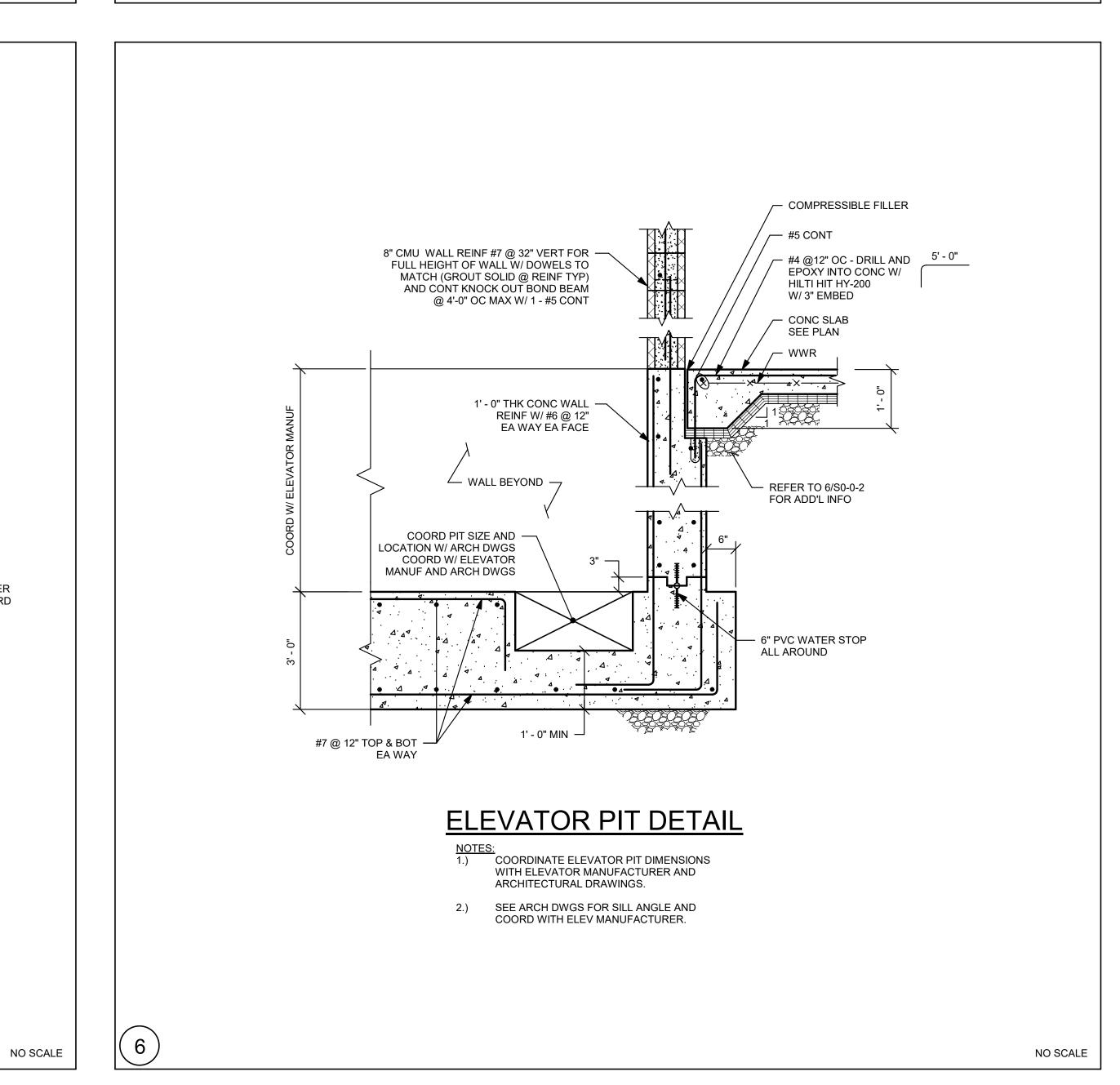


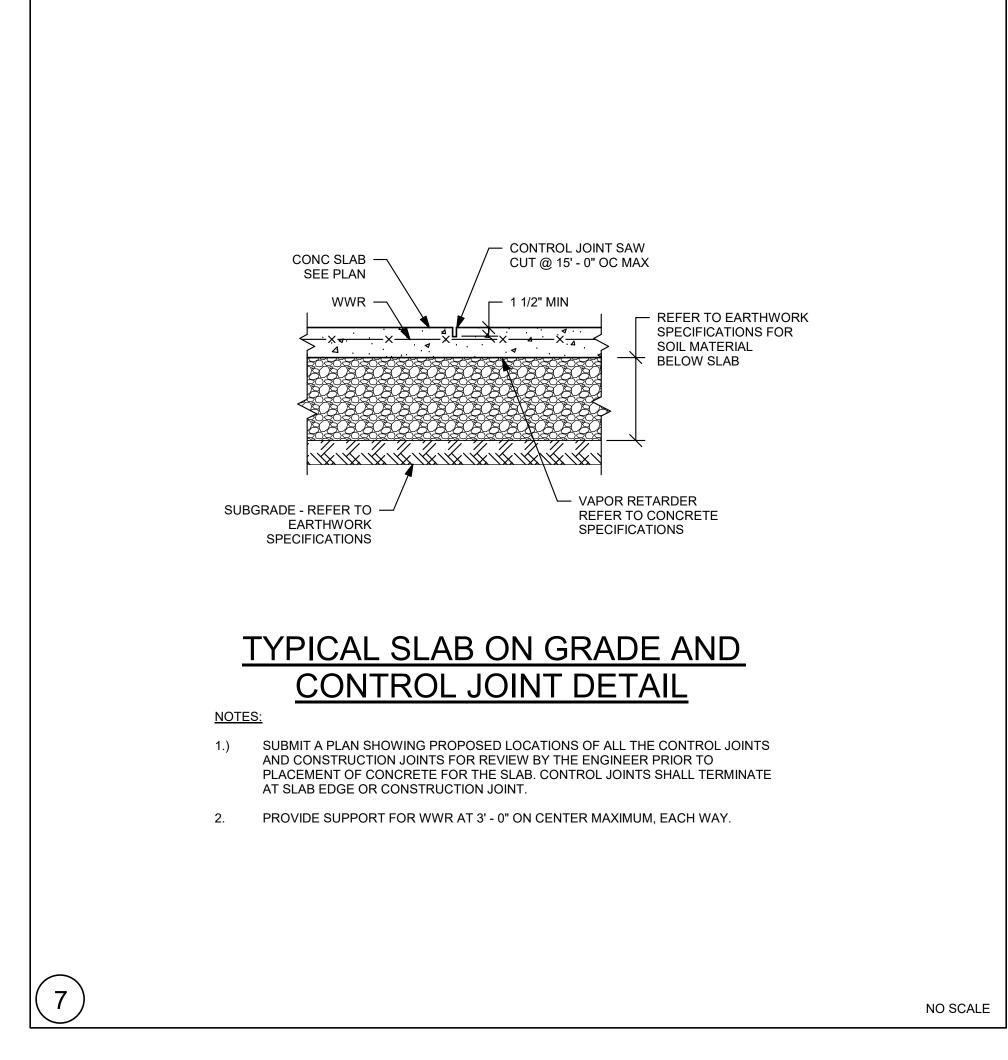
TYPICAL SLOPE BETWEEN FOOTINGS DETAIL

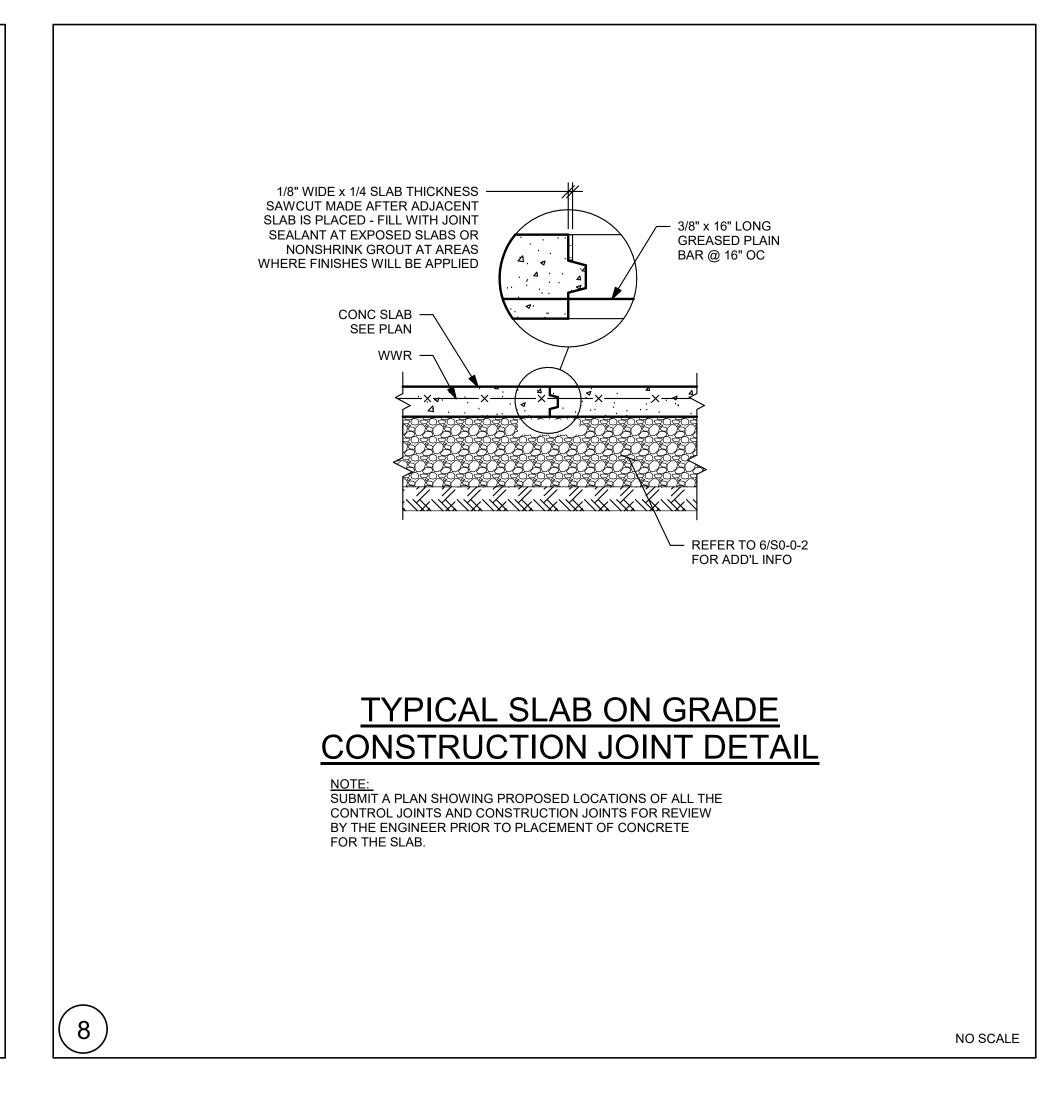




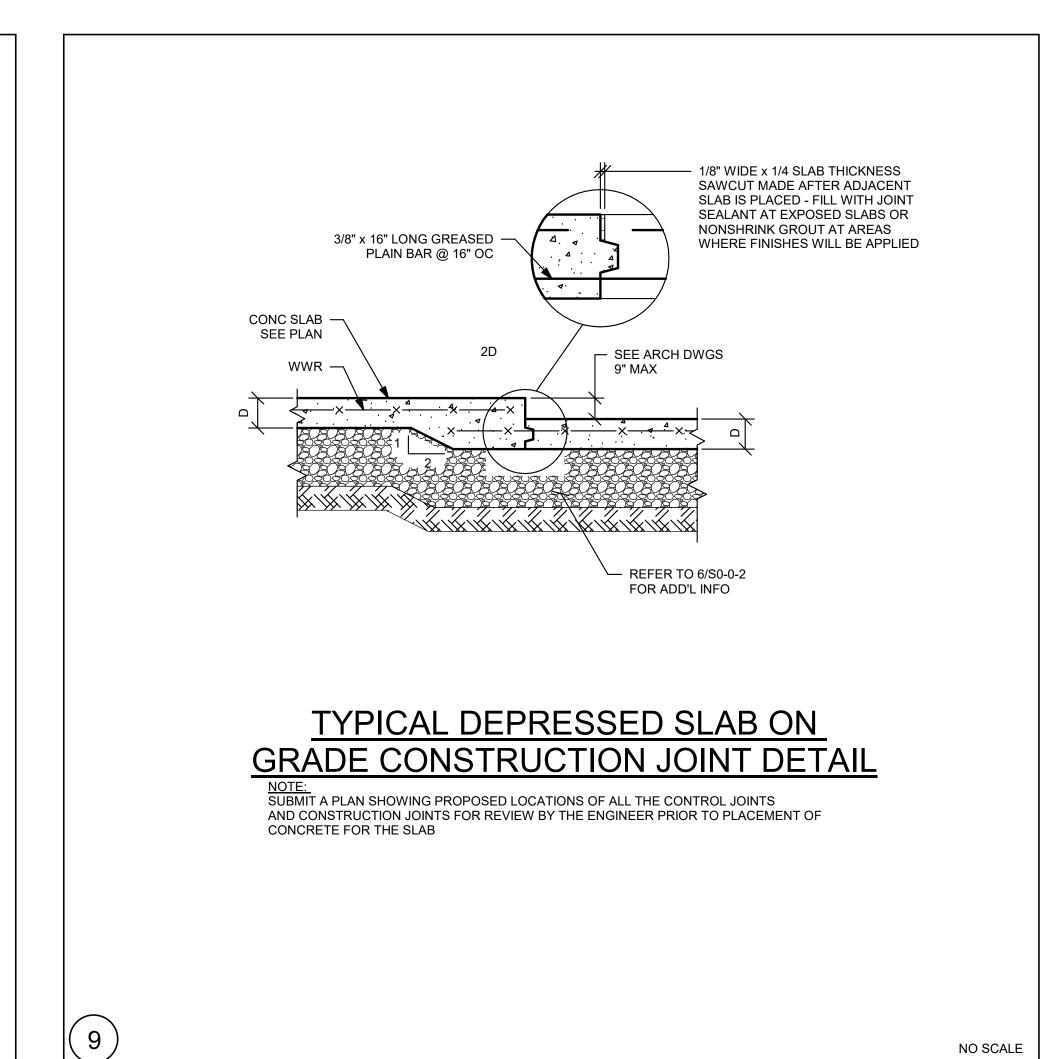


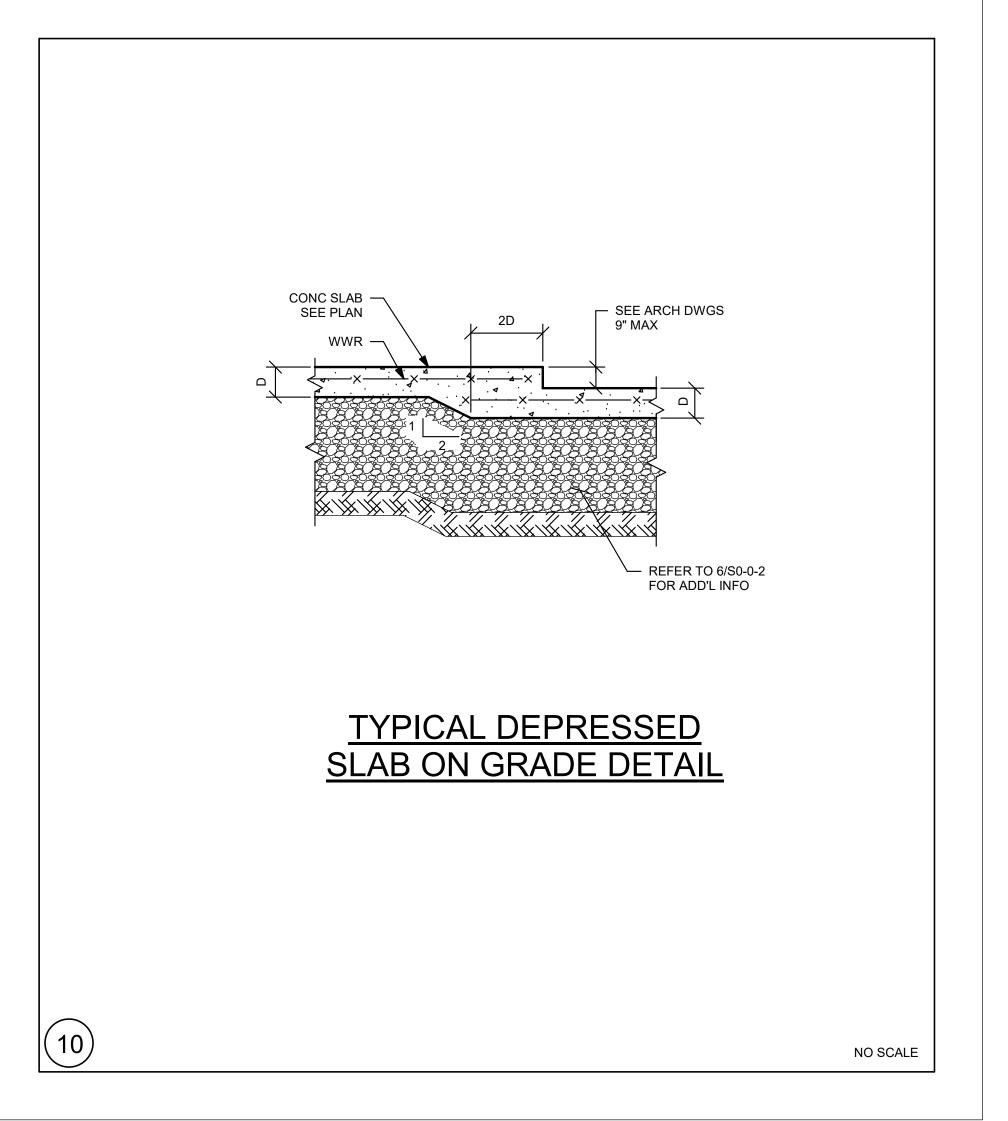


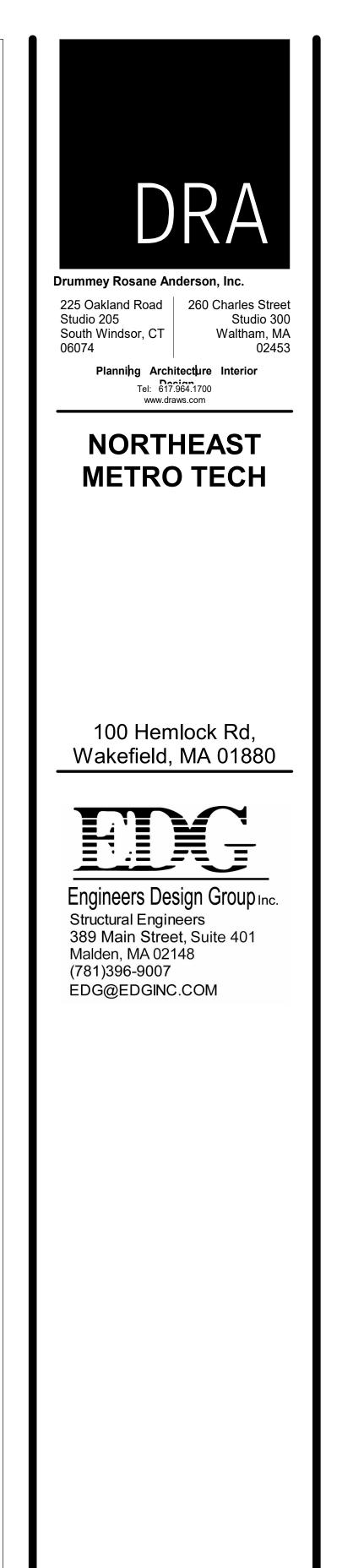




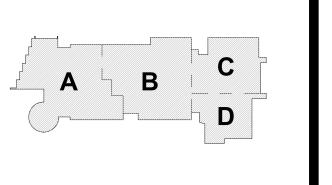
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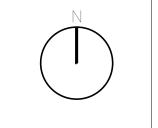




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PROJECT NORTH MAGNETIC NORTH



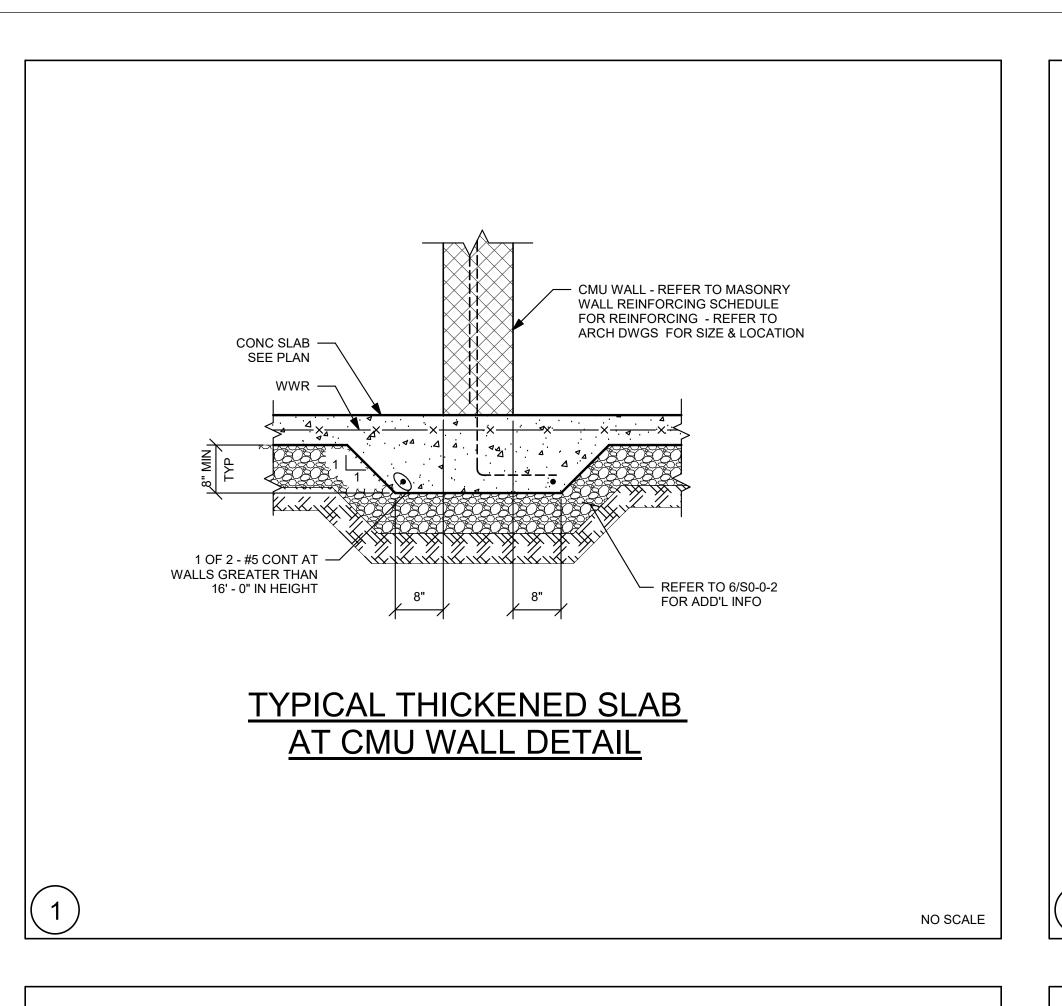
TYPICAL DETAILS

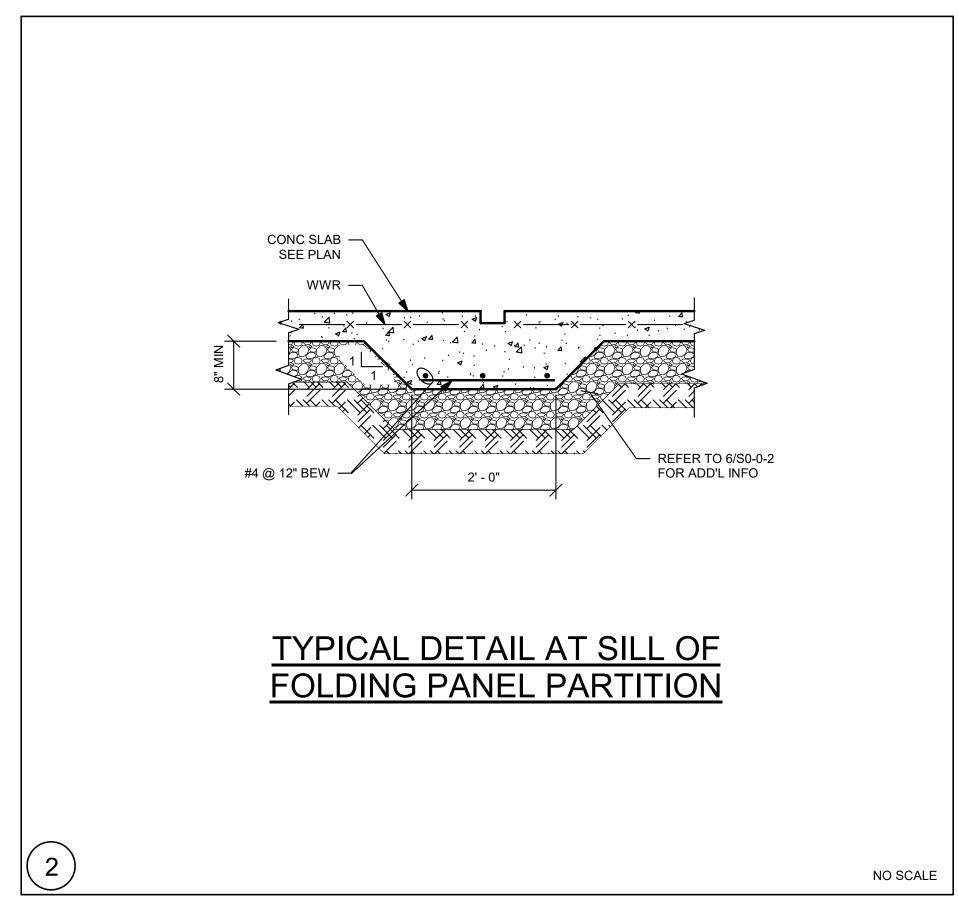
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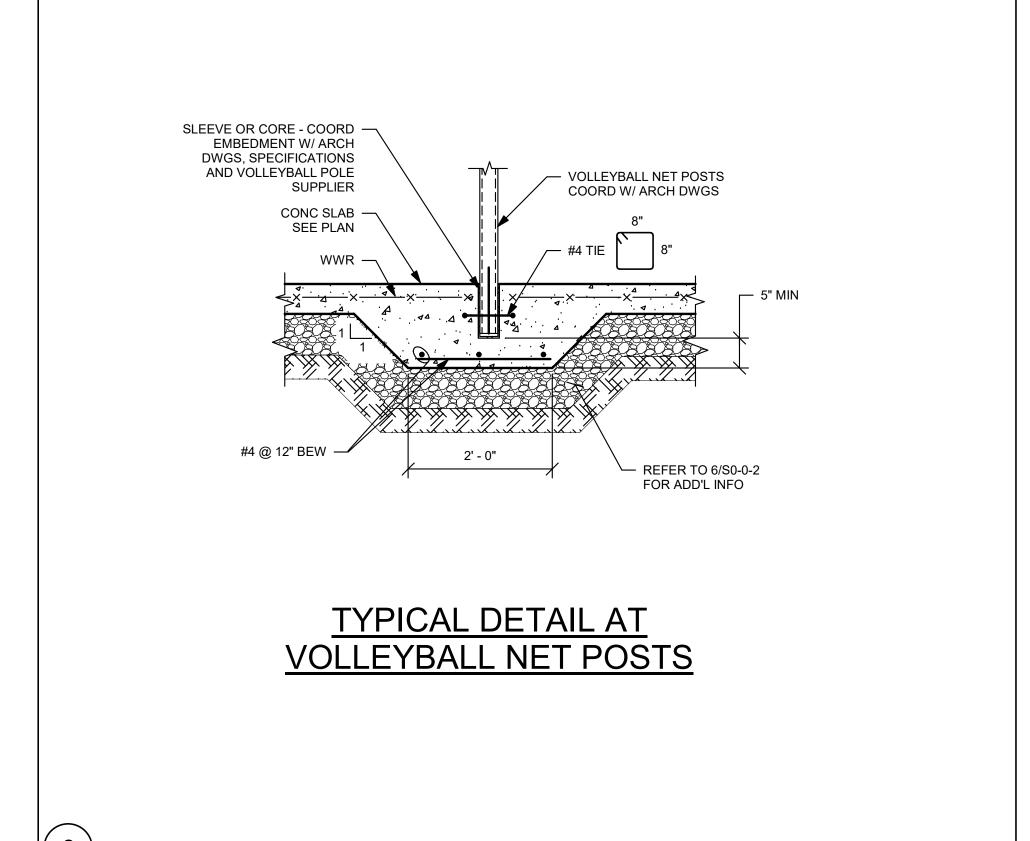
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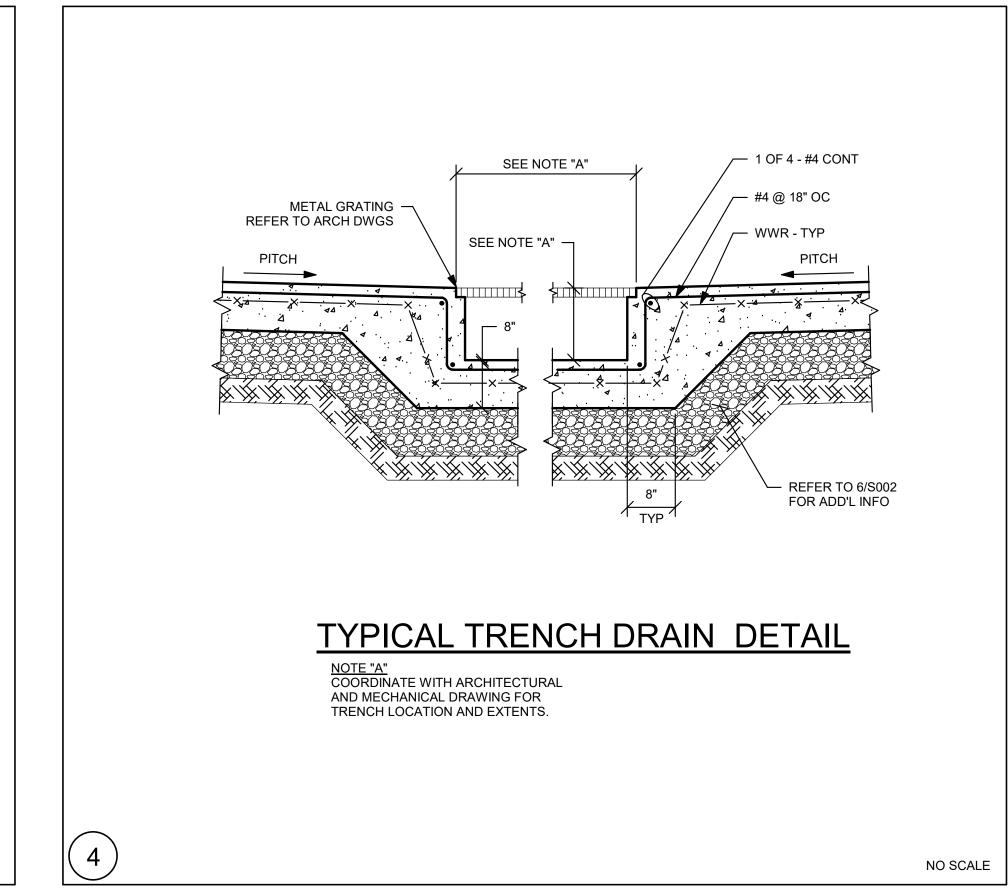
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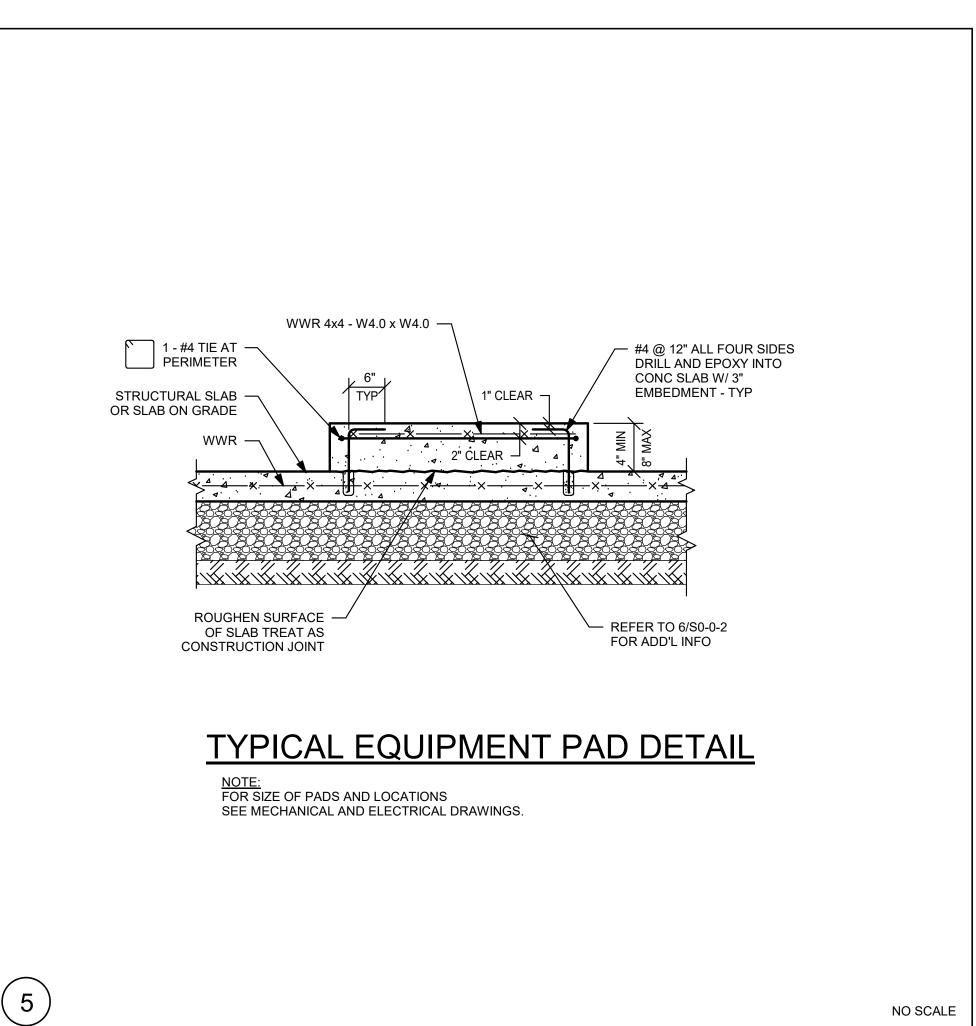


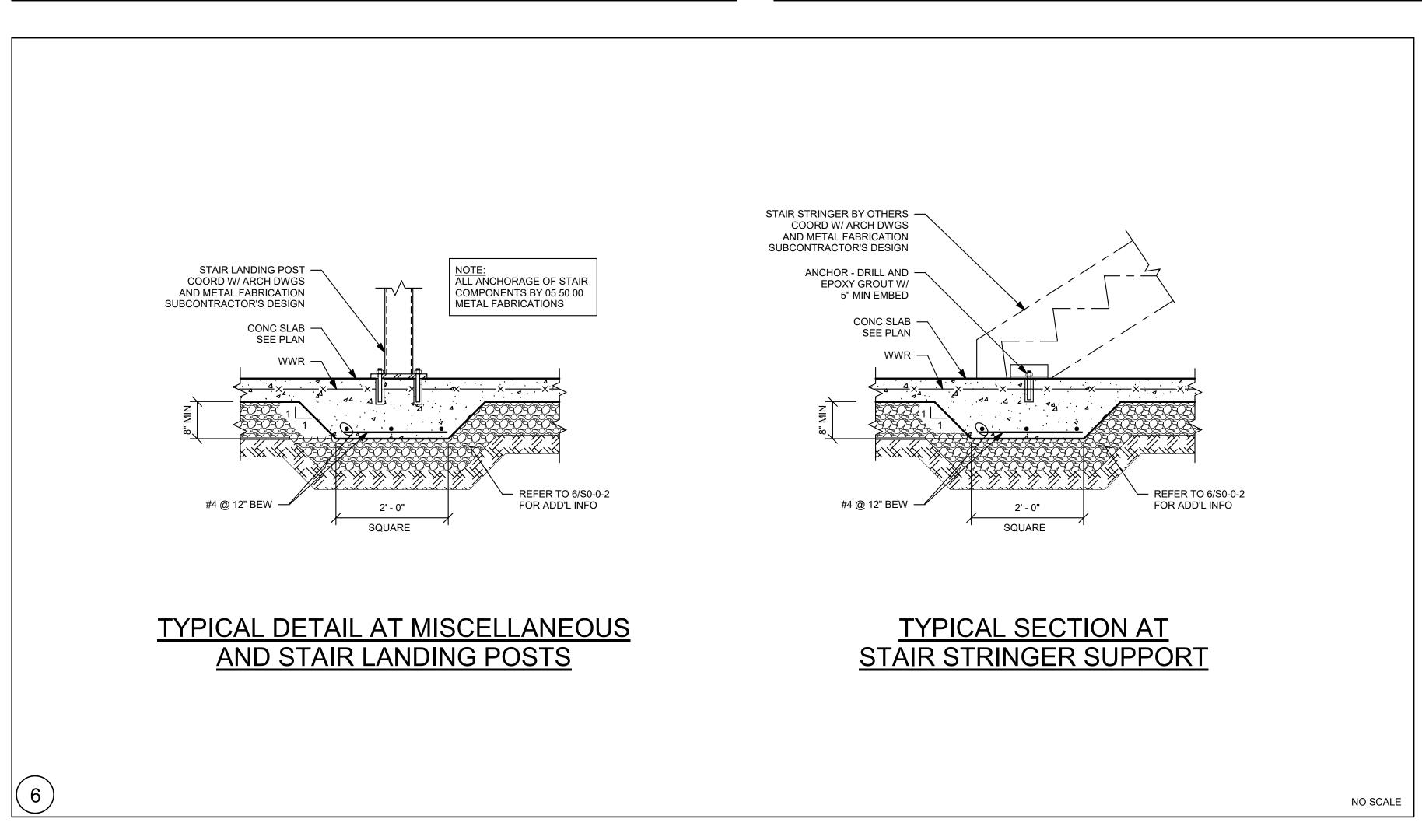


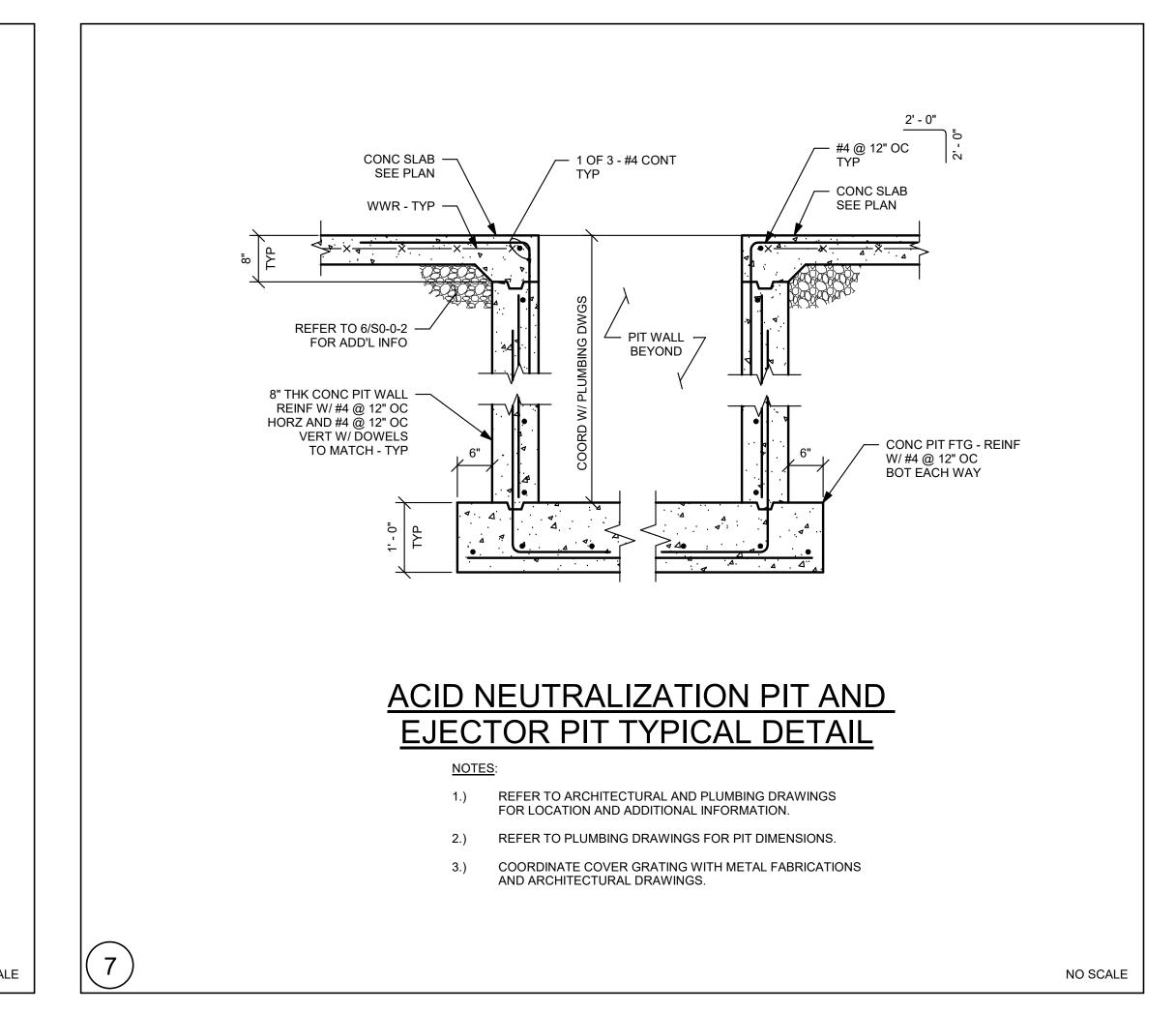


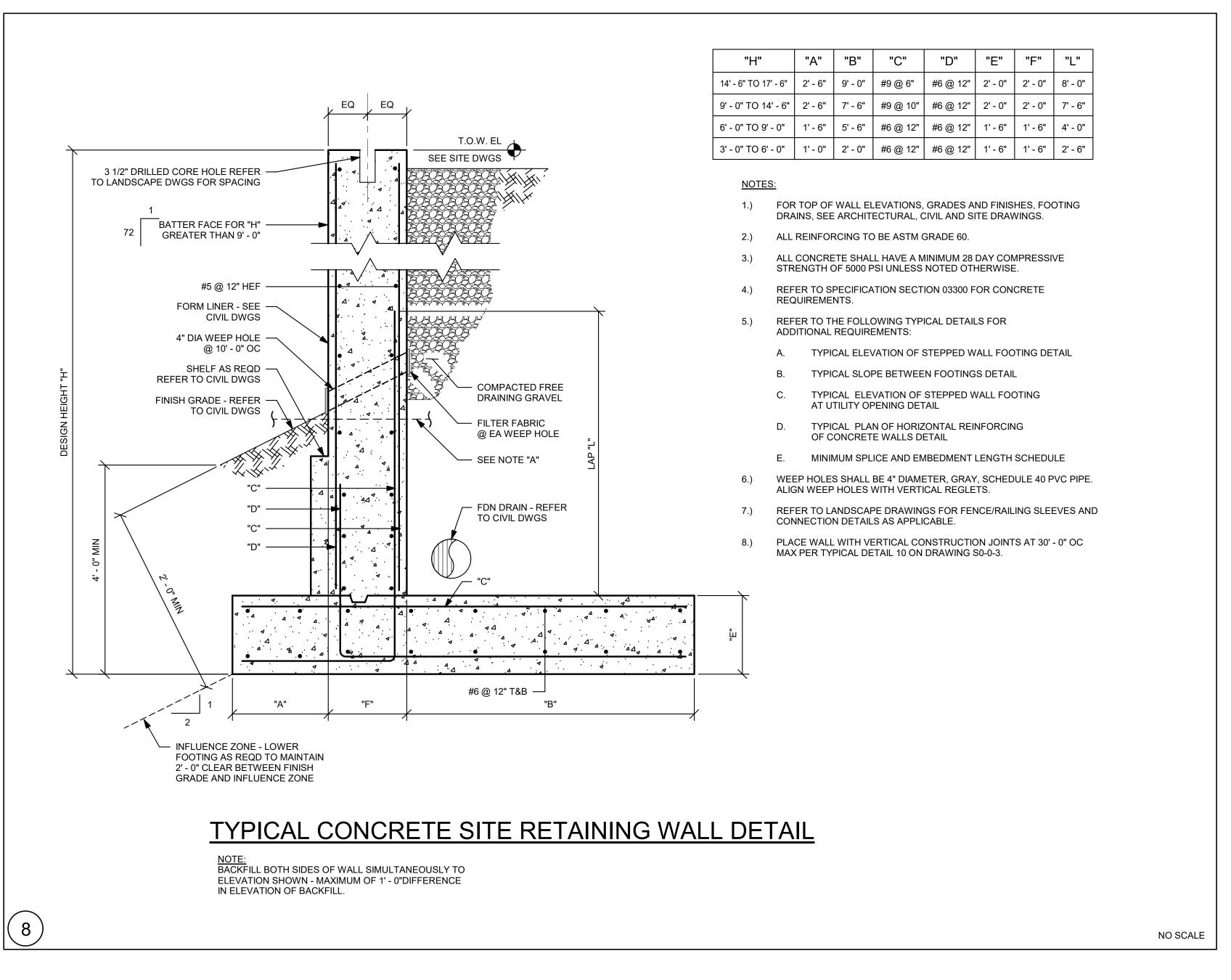
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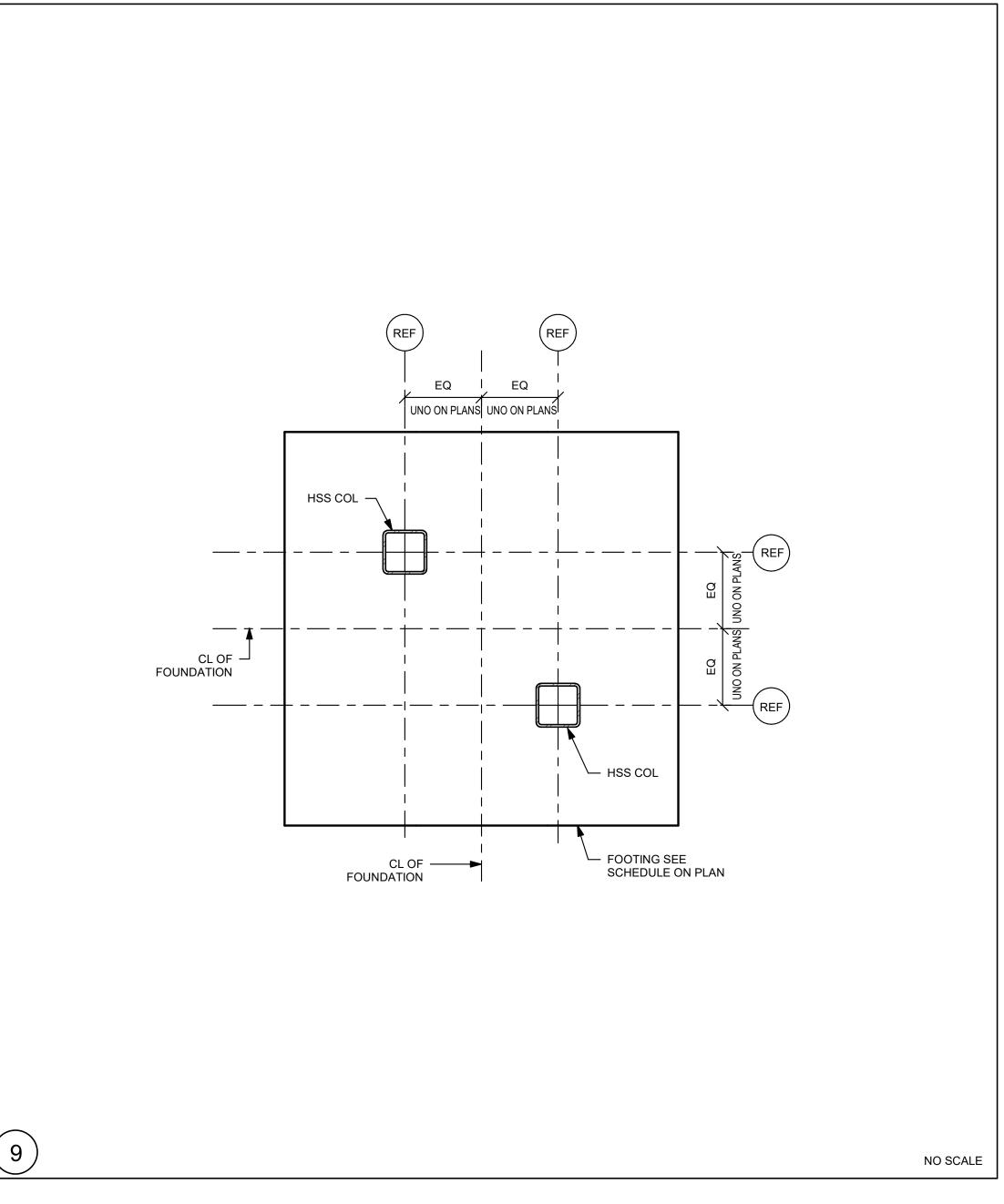


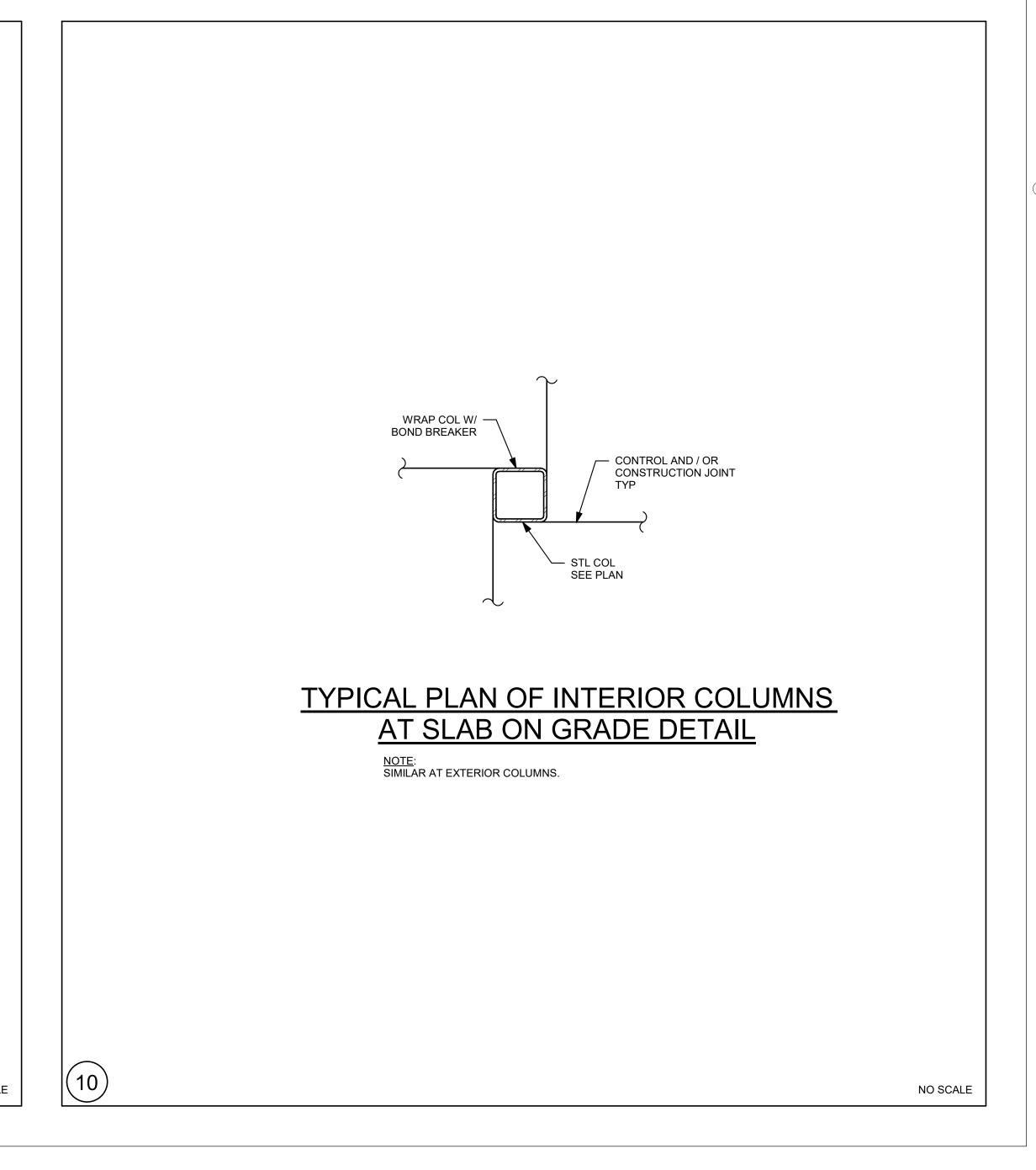














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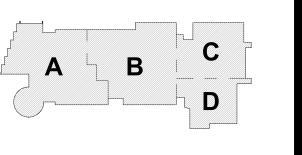
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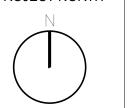
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PROJECT NORTH MAGNETIC NORTH



TYPICAL

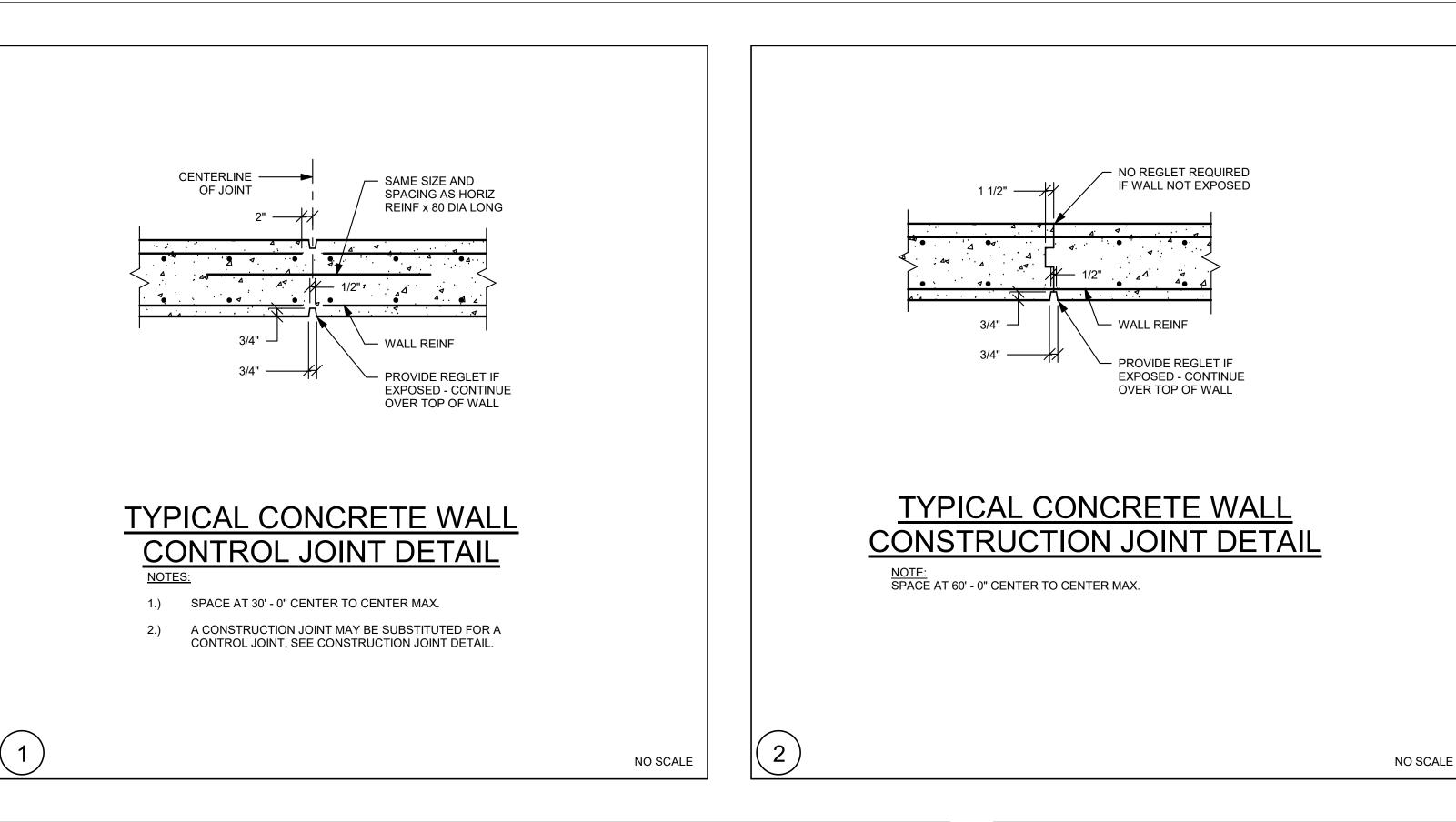
DETAILS

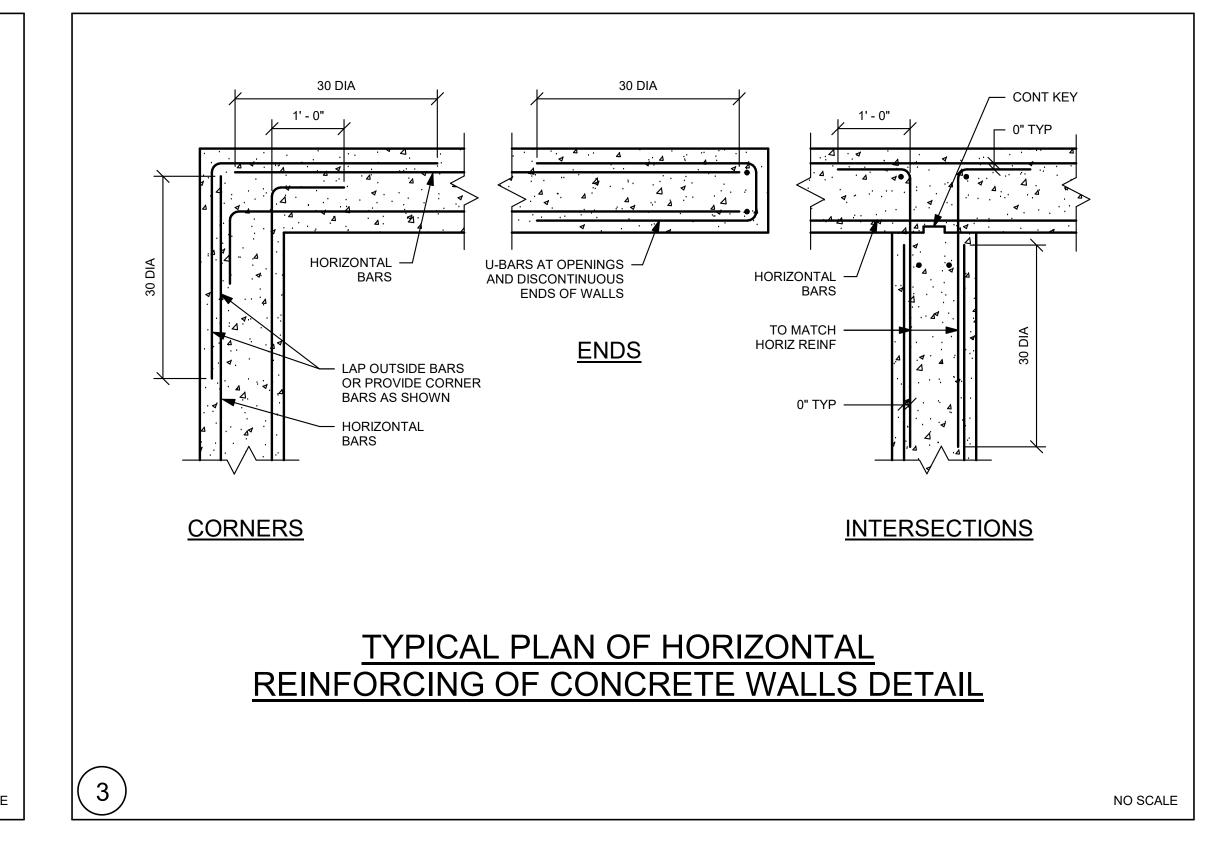
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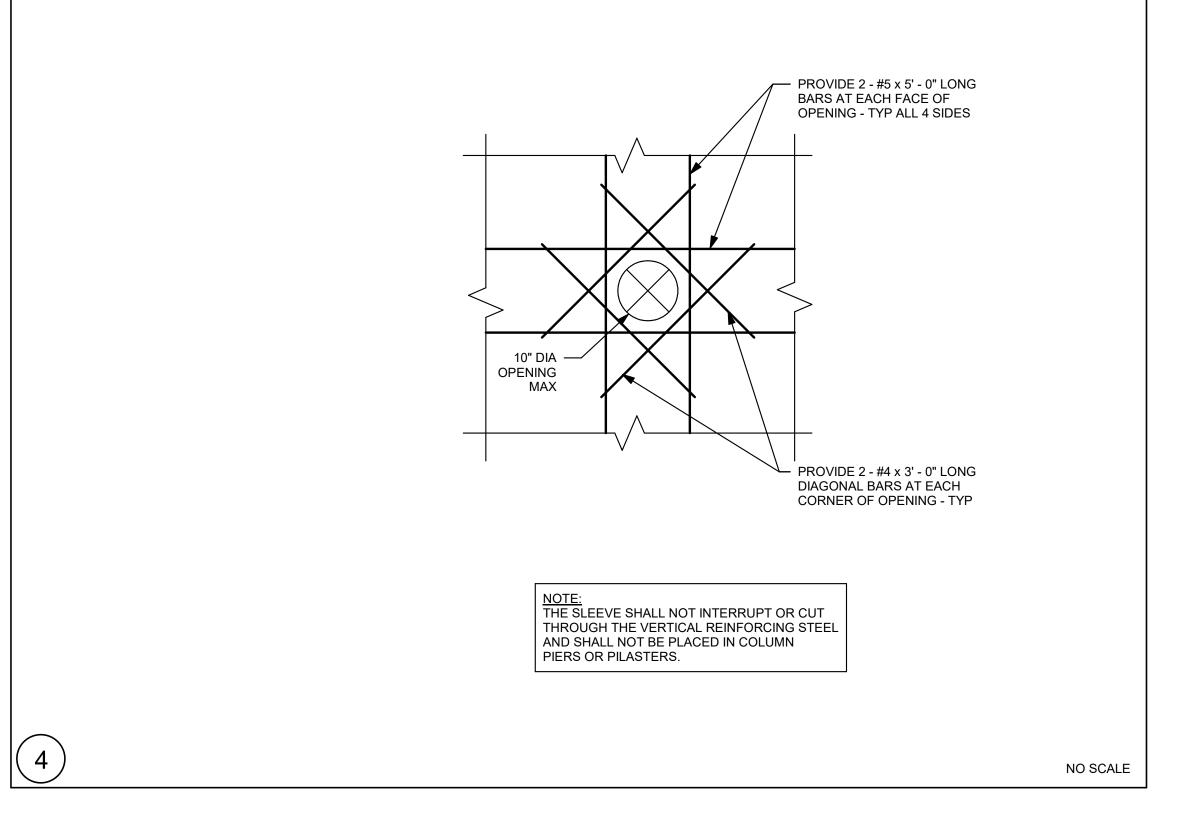
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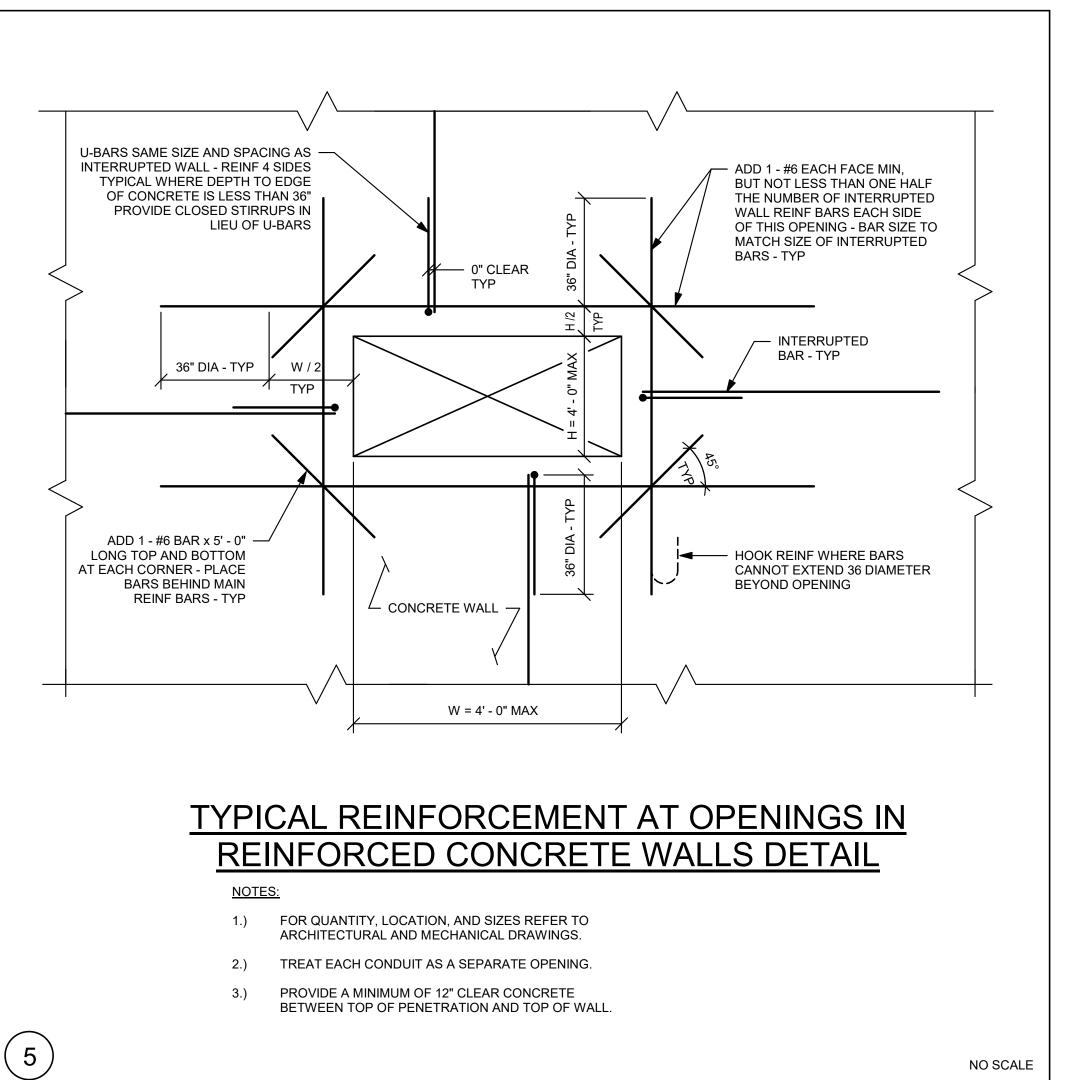
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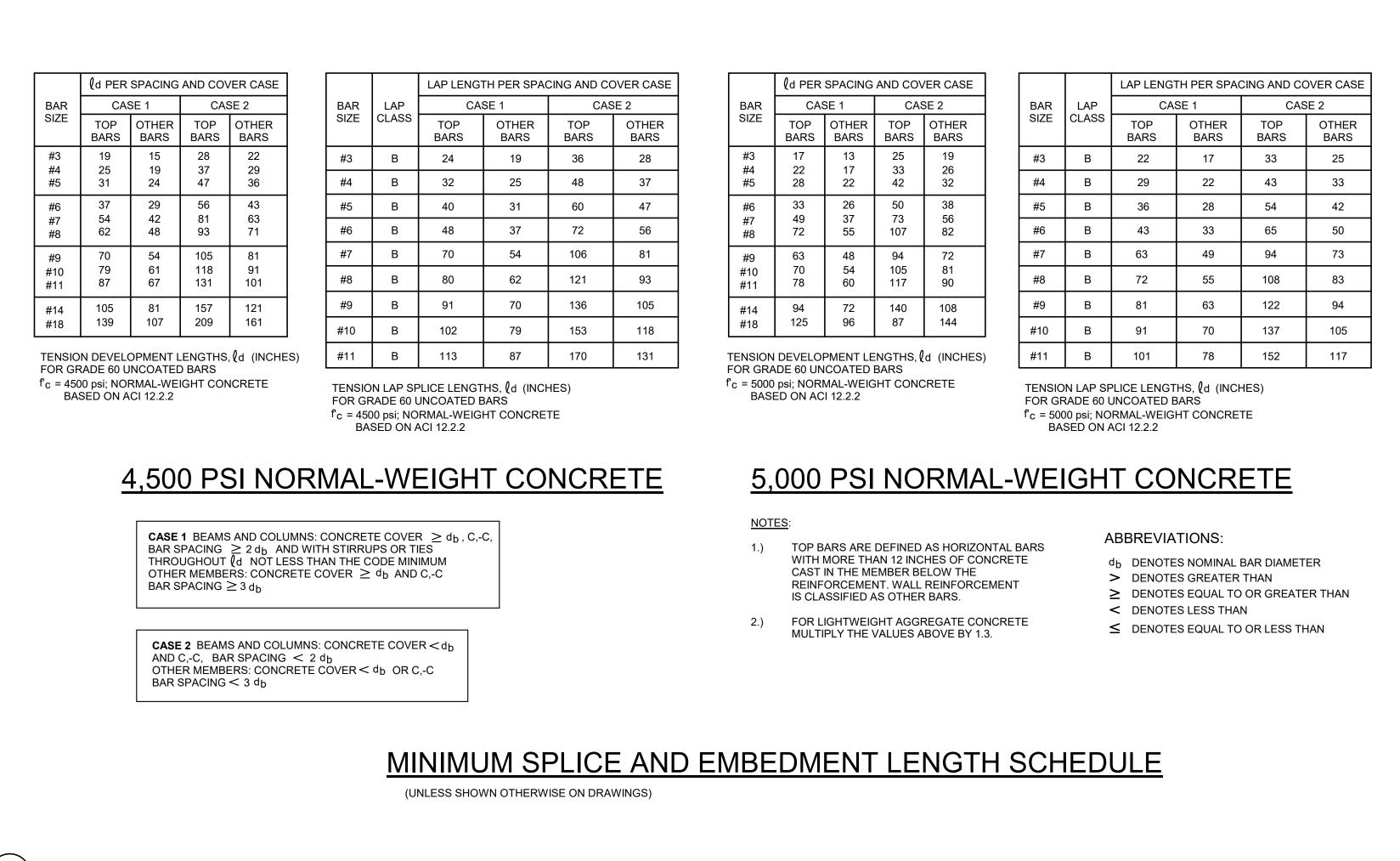
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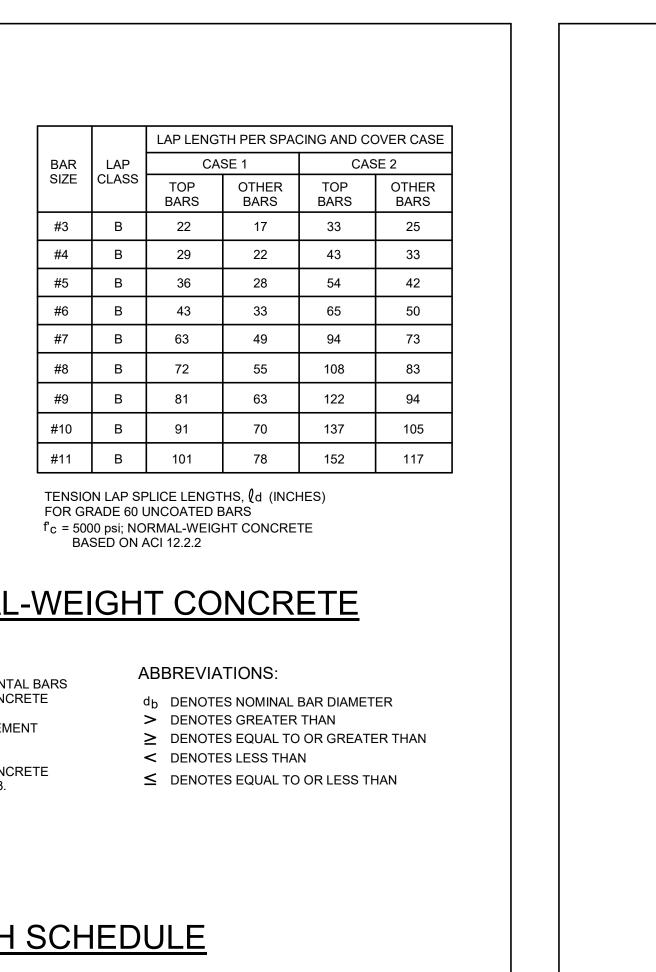


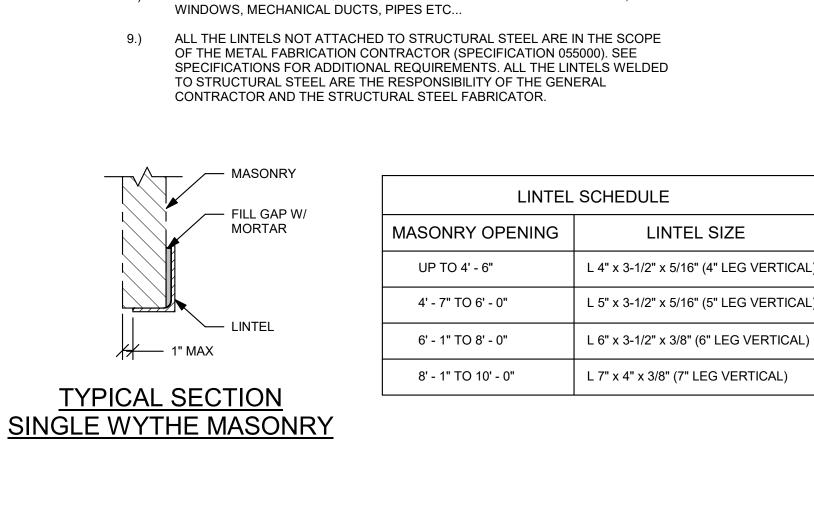












1.) PROVIDE LINTELS OVER ALL MASONRY OPENINGS UNLESS OTHERWISE

2.) PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS, FOR 6" WALLS

3.) PROVIDE 8" OF BEARING EACH END OF ALL LINTELS.

4.) SPAN LENGTH = CENTERLINE TO CENTERLINE OF BEARING.

5.) ALL EXTERIOR LINTELS SHALL BE GALVANIZED. PROVIDE 1/4" THICK

DETAILED OTHERWISE ON ARCHITECTURAL DRAWINGS.

7.) LOOSE LINTELS SHALL BE FURNISHED BY METAL FABRICATIONS

PROVIDE TEE, DOUBLE ANGLE OR BUILT-UP SECTION WITH PROPERTIES

CLOSURE PLATE OVER AIR SPACE AT OPENINGS UNLESS NOTED OR

6.) FOR CURVED/BENT LINTELS USE CHORD LENGTH IN CONJUNCTION WITH

8.) LOOSE LINTELS ARE REQUIRED FOR ALL OPENINGS INCLUDING DOORS,

EQUAL TO OR GREATER THAN 1-1/2" TIMES ANGLE PROPERTIES FOR 4" WALL

SCHEDULE ABOVE. PROVIDE HORIZONTAL ANGLES AT EACH END OF LINTEL

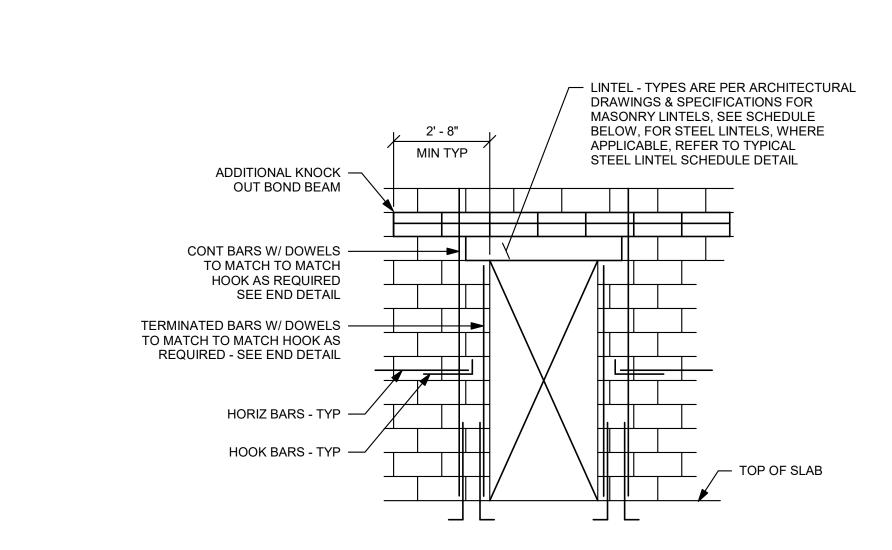
FOR 8" OF BEARING. HORIZONTAL ANGLES SHALL MATCH LINTEL SIZE AND

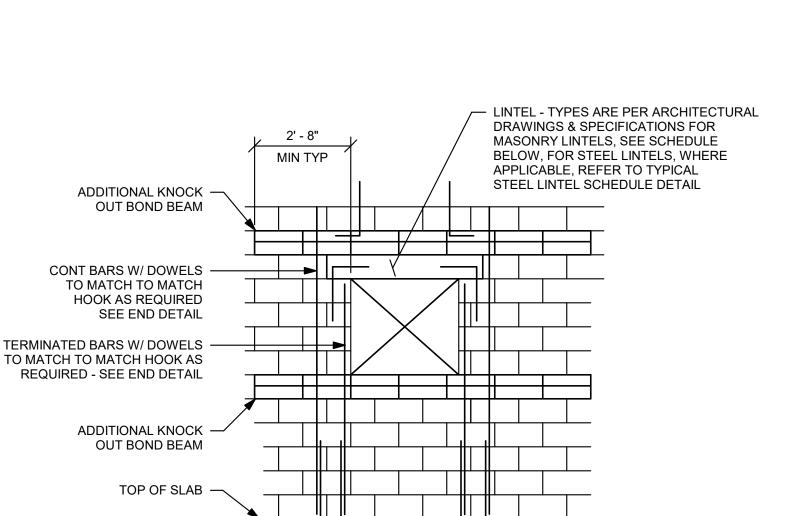
(SPECIFICATION 055000) AND INSTALLED BY UNIT MASONRY ASSEMBLIES

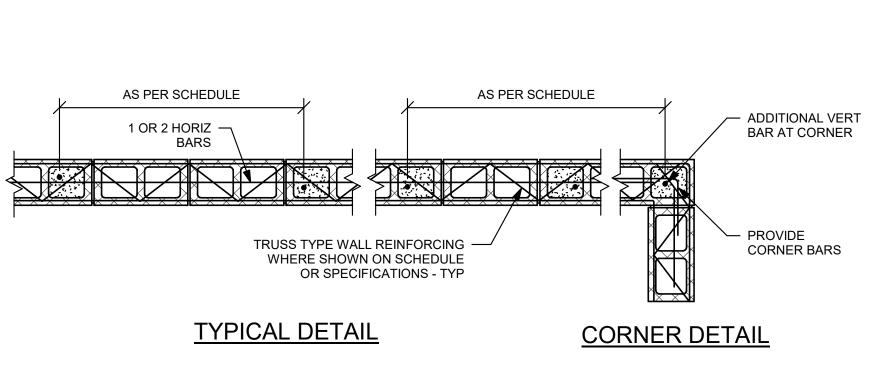
SHALL BE WELDED TO CURVED ANGLE WITH FULL PENETRATION WELD.

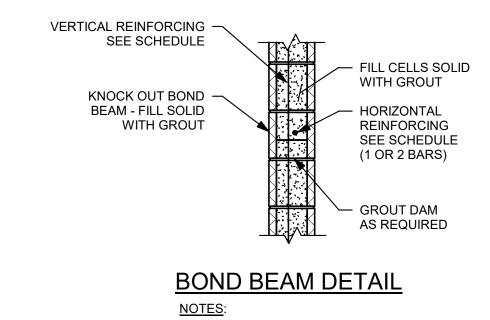
TYPICAL STEEL LINTEL SCHEDULE

NOTES:









1.) SEE SCHEDULE FOR SPACING. PROVIDE REINFORCED BOND BEAM WITHIN 16" OF TOP OF WALL.

PROVIDE REINFORCED BOND BEAM AT TOP AND BOTTOM OF ALL OPENINGS.

MASONRY LINTEL SCHEDULE			
OPENING DIMS	8" x 12" WIDE BEAM	REINFORCEMENT	
0' - 0" - 4' - 0"	8" x 8" DEEP	2 - #5 CONT	
4 - 0" - 8' - 0"	8" x 16" DEEP	2 - #5 CONT	
8' - 0" - 12' - 0"	8" x 24" DEEP	2 - #6 CONT AND WIRE TRUSS TYPE - REINF AT JOINTS	
0' - 0" - 4' - 0"	12" x 8" DEEP	2 - #5 CONT	
4 - 0" - 8' - 0"	12" x 16" DEEP	2 - #5 CONT AND WIRE TRUSS TYPE - REINF AT JOINTS	
8' - 0" - 12' - 0"	12" x 24" DEEP	2 - #6 TOP & BOT CONT AND WIRE TRUSS TYPE REINF AT JOINTS	

BREAK WEBS — FROM BLOCK	
WIRE TRUSS — REINF	
	8" 8" 2'-0"

NO SCALE

MASONRY LINTEL DETAIL **AND SCHEDULE**

NOTE: NO CONSTRUCTION JOINTS OR CONTROL JOINTS ARE PERMITTED WITHIN 3' - 0" OF EDGE OF OPENING.

MASONRY LINTEL SCHEDULE			
OPENING DIMS	8" x 12" WIDE BEAM	REINFORCEMENT	
0' - 0" - 4' - 0"	8" x 8" DEEP	2 - #5 CONT	
4 - 0" - 8' - 0"	8" x 16" DEEP	2 - #5 CONT	
8' - 0" - 12' - 0"	8" x 24" DEEP	2 - #6 CONT AND WIRE TRUSS TYPE - REINF AT JOINTS	
0' - 0" - 4' - 0"	12" x 8" DEEP	2 - #5 CONT	
4 - 0" - 8' - 0"	12" x 16" DEEP	2 - #5 CONT AND WIRE TRUSS TYPE - REINF AT JOINTS	
8' - 0" - 12' - 0"	12" x 24" DEEP	2 - #6 TOP & BOT CONT AND WIRE TRUSS TYPE REINF AT JOINTS	

WALL REINFORCING SCHEDULE			
WALL LOCATION	WALL THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
SHEAR WALLS AND LOADING BEARING SHEAR	8"	#7 @ 48"	1 - #5 IN BOND BEAM AT 48" ON CENTER
WALLS SHOWN ON PLAN	12"	#8 @ 48"	2 - #5 IN BOND BEAM AT 48" ON CENTER
CLASS 'A' WALLS	6"	#6 @ 48"	1 - #5 IN BOND BEAM AT 48" ON CENTER
ALL EXTERIOR WALLS, STAIR WALLS, AND ELEVATOR SHAFT WALLS	8"	#7 @ 48"	1 - #5 IN BOND BEAM AT 48" ON CENTER
	12"	#8 @ 48"	2 - #5 IN BOND BEAM AT 48" ON CENTER
CLASS 'B' WALLS ALL INTERIOR CMU WALLS GREATER THAN 16' - 0" IN HEIGHT	ALL SIZES	#4 @ 48"	1 - #4 IN BOND BEAM AT 48" ON CENTER
CLASS 'C' WALLS ALL INTERIOR CMU WALLS 16' - 0" IN HEIGHT OR LESS	ALL SIZES	#4 @ 48"	1 - #4 IN BOND BEAM AT 48" ON CENTER

MINIMUM CONCRETE MASONRY

NOTES:

1) REFER TO PLANS, SECTIONS, AND SPECIFICATIONS FOR REINFORCING REQUIREMENTS MORE STRINGENT THAN IN THE SCHEDULE. 2) PROVIDE REINFORCED BOND BEAM WITHIN 16" OF TOP OF WALL 3) ALL VERTICAL REINFORCING TO BE IN SOLIDLY GROUTED CELLS, AND PROVIDE 48 DIAMETER LAP AT ALL BAR SPLICES TYPICAL.

4) PROVIDE 9 GA HORIZONTAL JOINT REINFORCING AT 16" OC FOR ALL WALLS.

NOTE:
ALL REINFORCING WITHIN THE MASONRY WALL SHALL BE FURNISHED BY THE MASONRY SUB CONTRACTOR(SPECIFICATION 04200) EXCEPT DOWELS EMBEDDED IN CONCRETE FOUNDATION ARE THE RESPONSIBILITY TO THE GENERAL CONTRACTOR AND THE CONCRETE SUB-CONTRACTOR

TYPICAL REINFORCING AT CMU WALLS WITH OPENINGS ELEVATION

KEY PLAN

MAGNETIC NORTH

TYPICAL

DETAILS

MSBA 60% CD

Submission

01/13/2023

PROJECT NORTH

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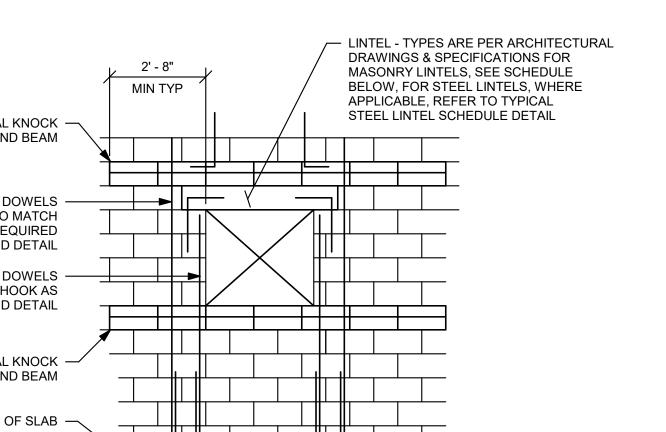
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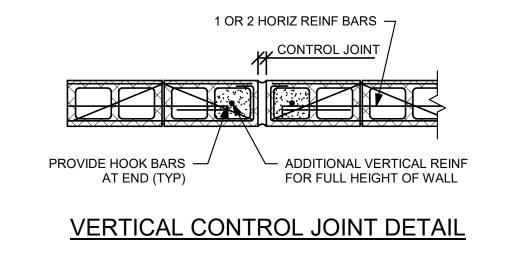
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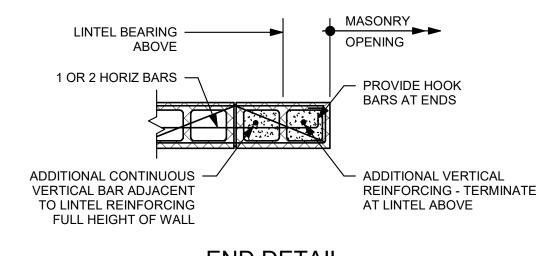
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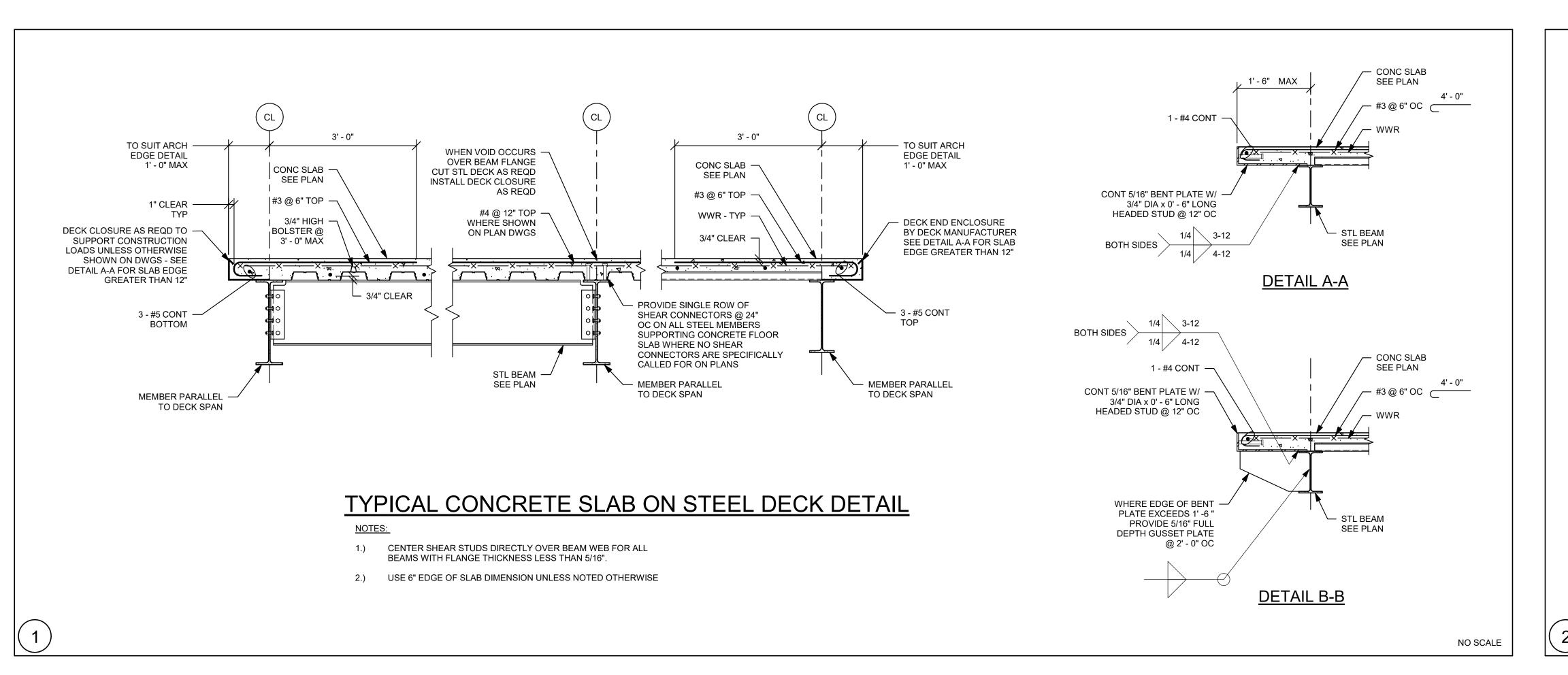
END DETAIL

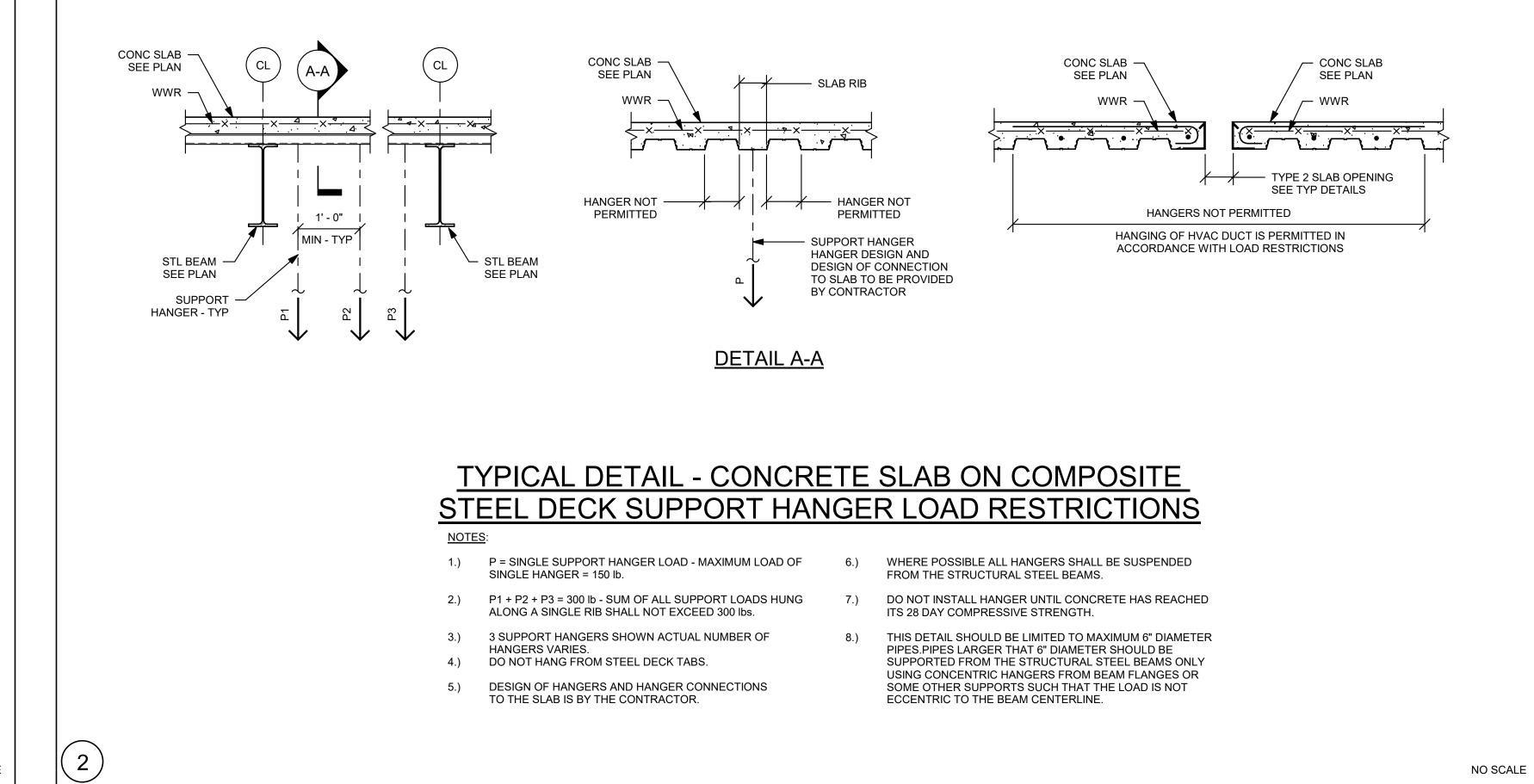
OPENING 4' - 0" TO 8' - 0" IN WIDTH.

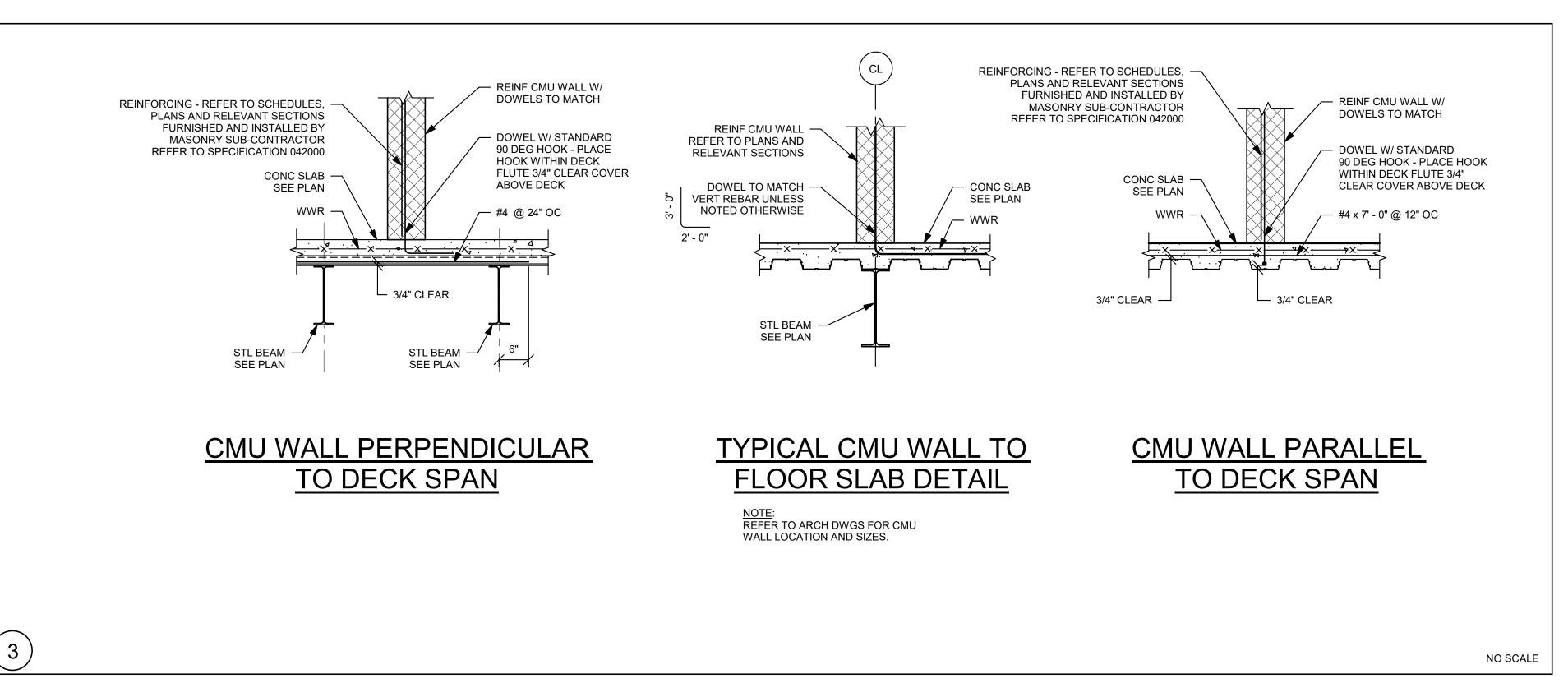
1.) PROVIDE 1 - CONTINUOUS BAR AT MASONRY OPENING 4' - 0" OR LESS IN WIDTH. AT STEEL LINTEL CONTINUE BARS AT MASONRY LINTEL. 2.) PROVIDE 2 - CONTINUOUS BARS AT MASONRY

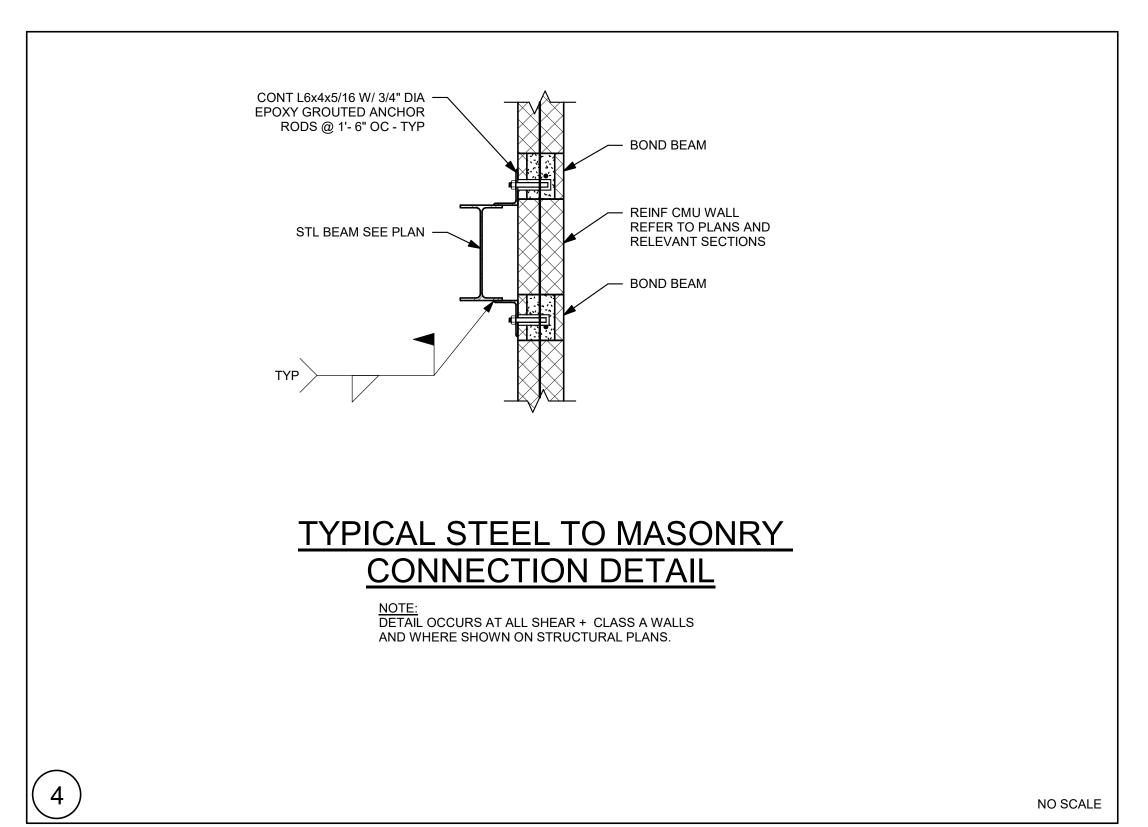
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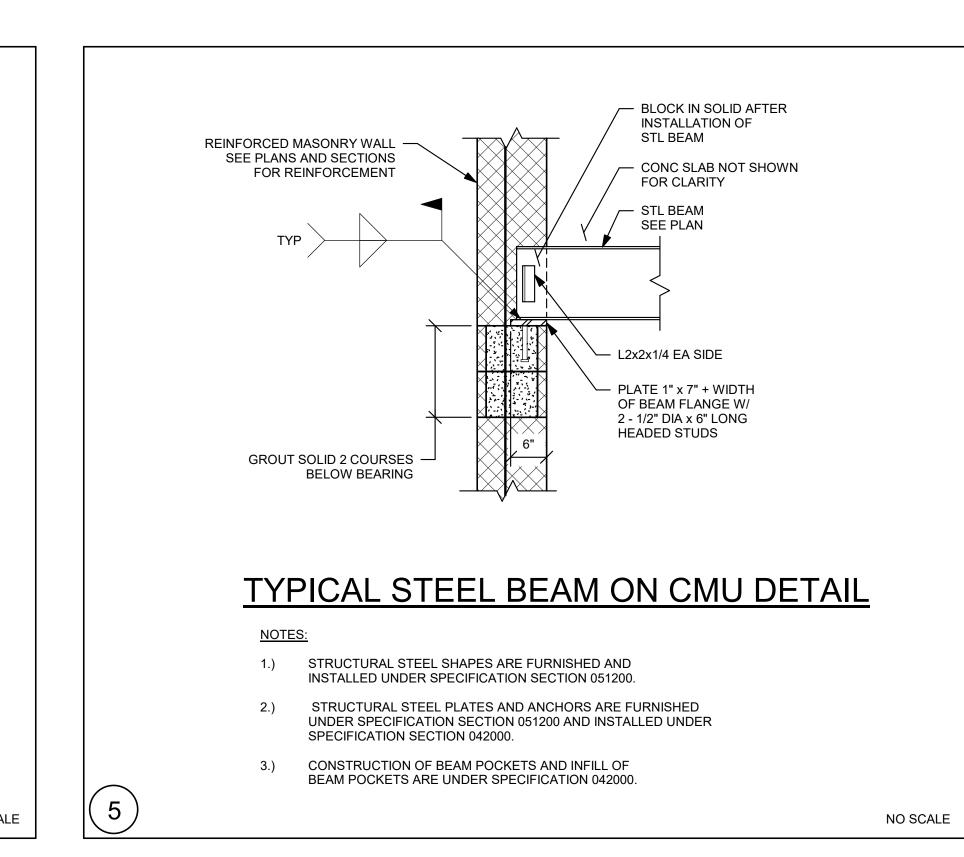
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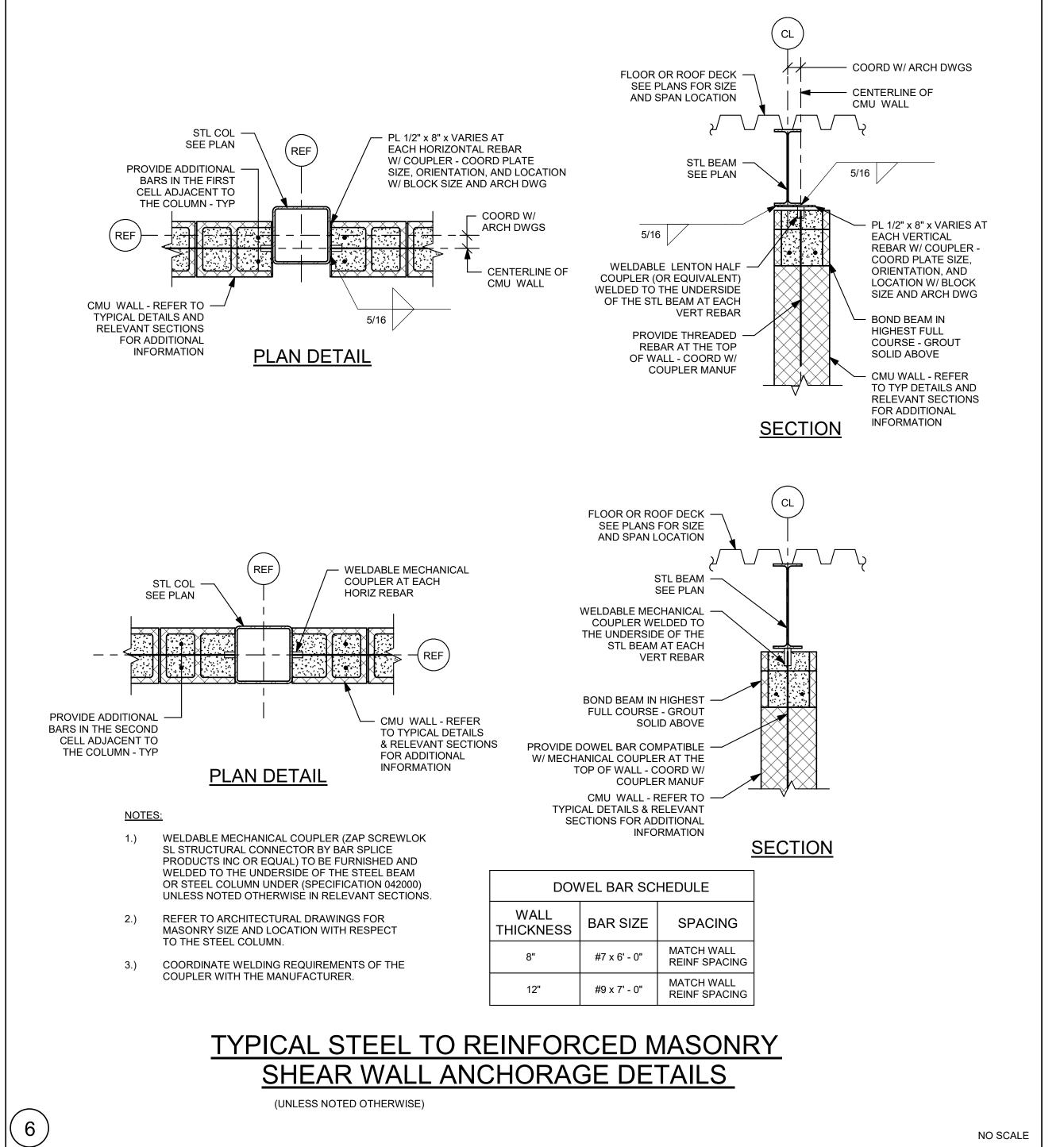


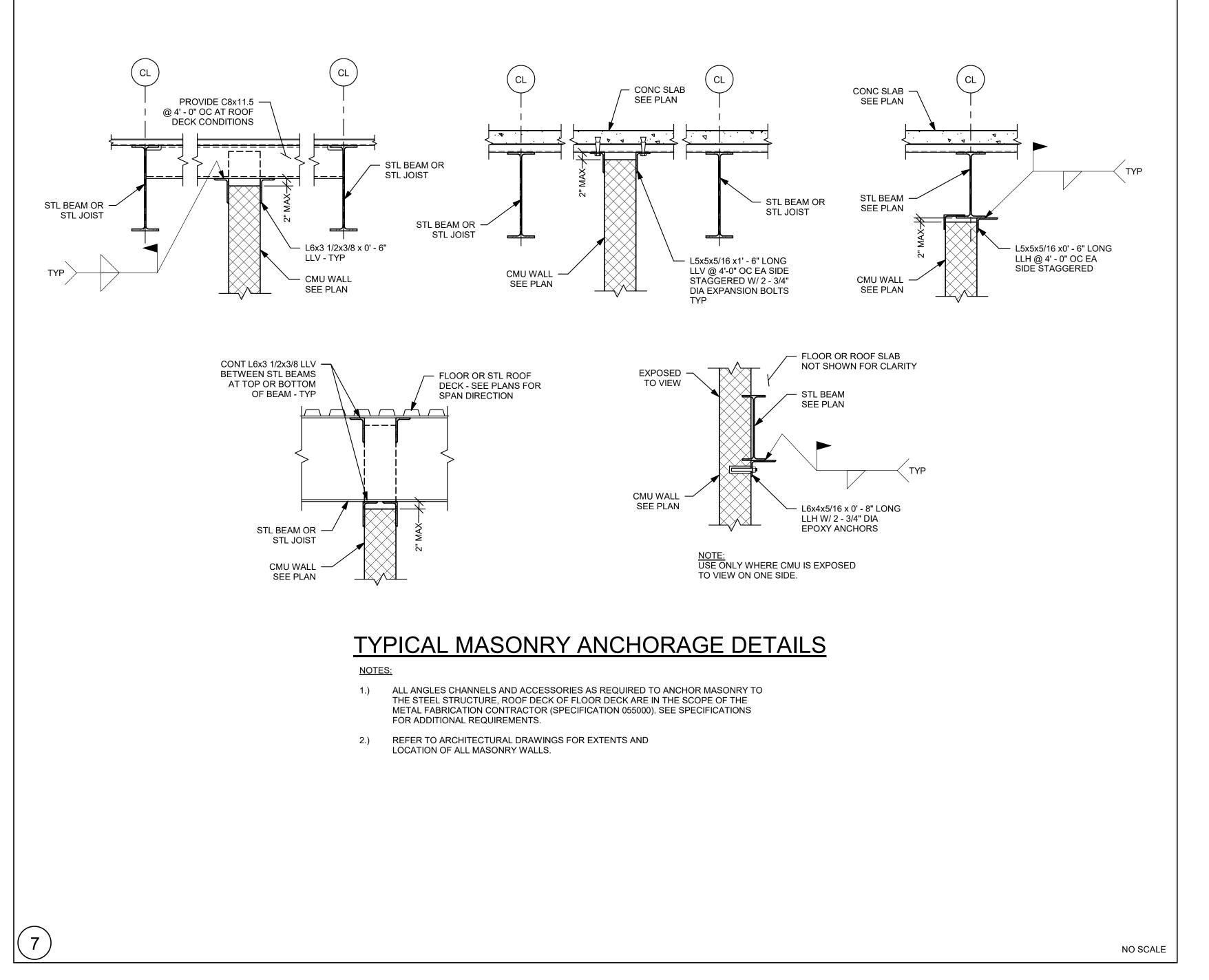


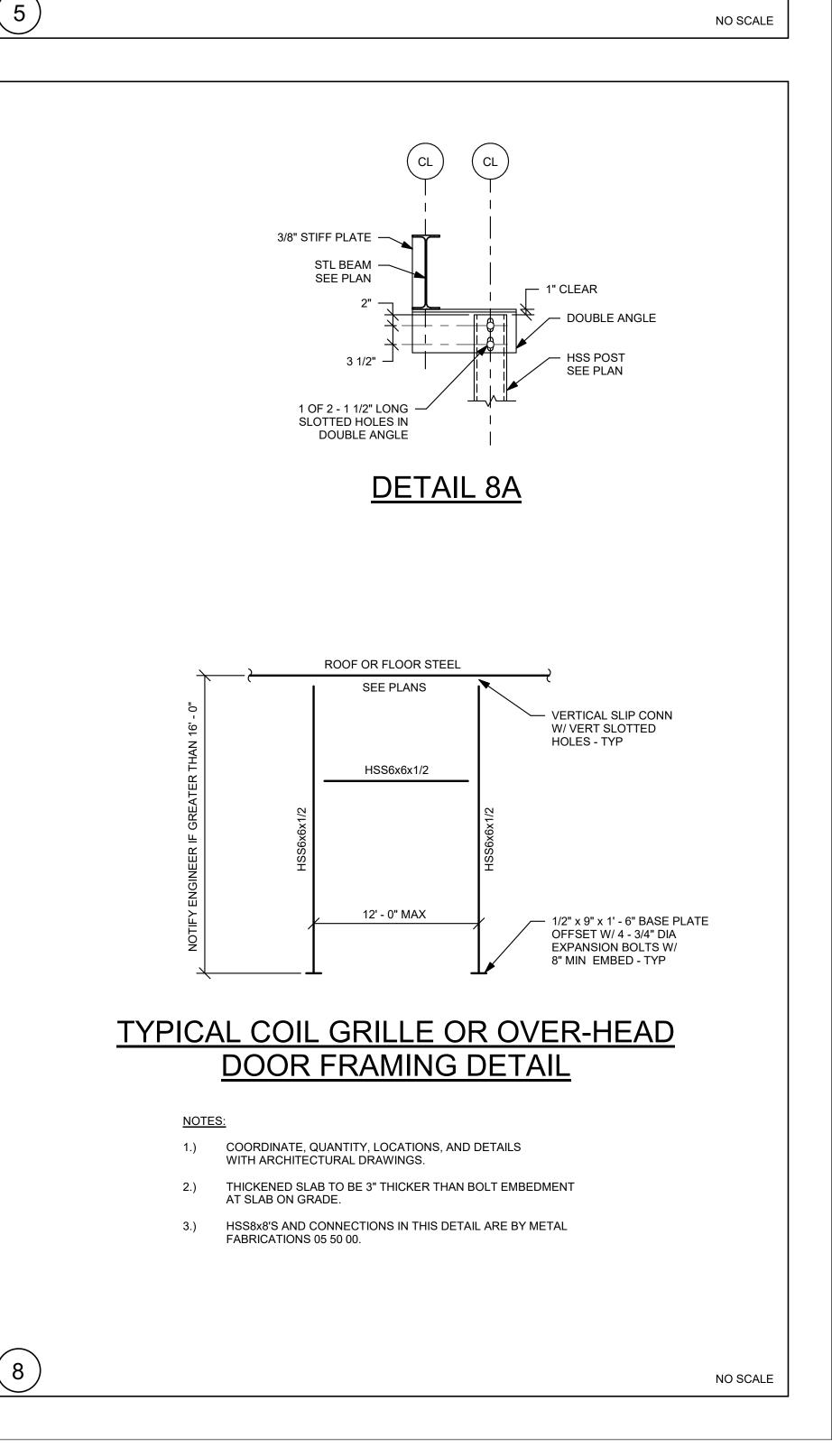


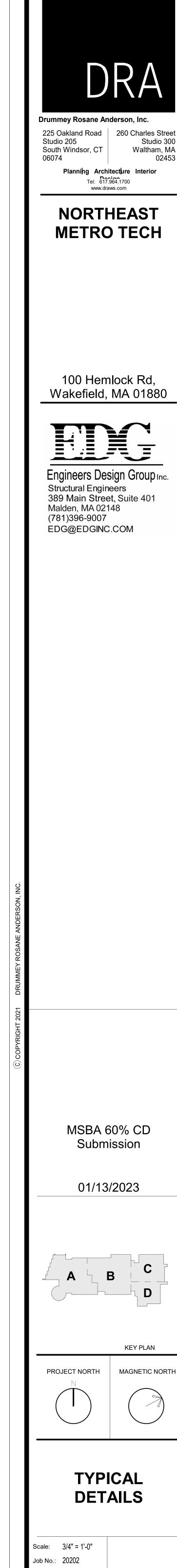


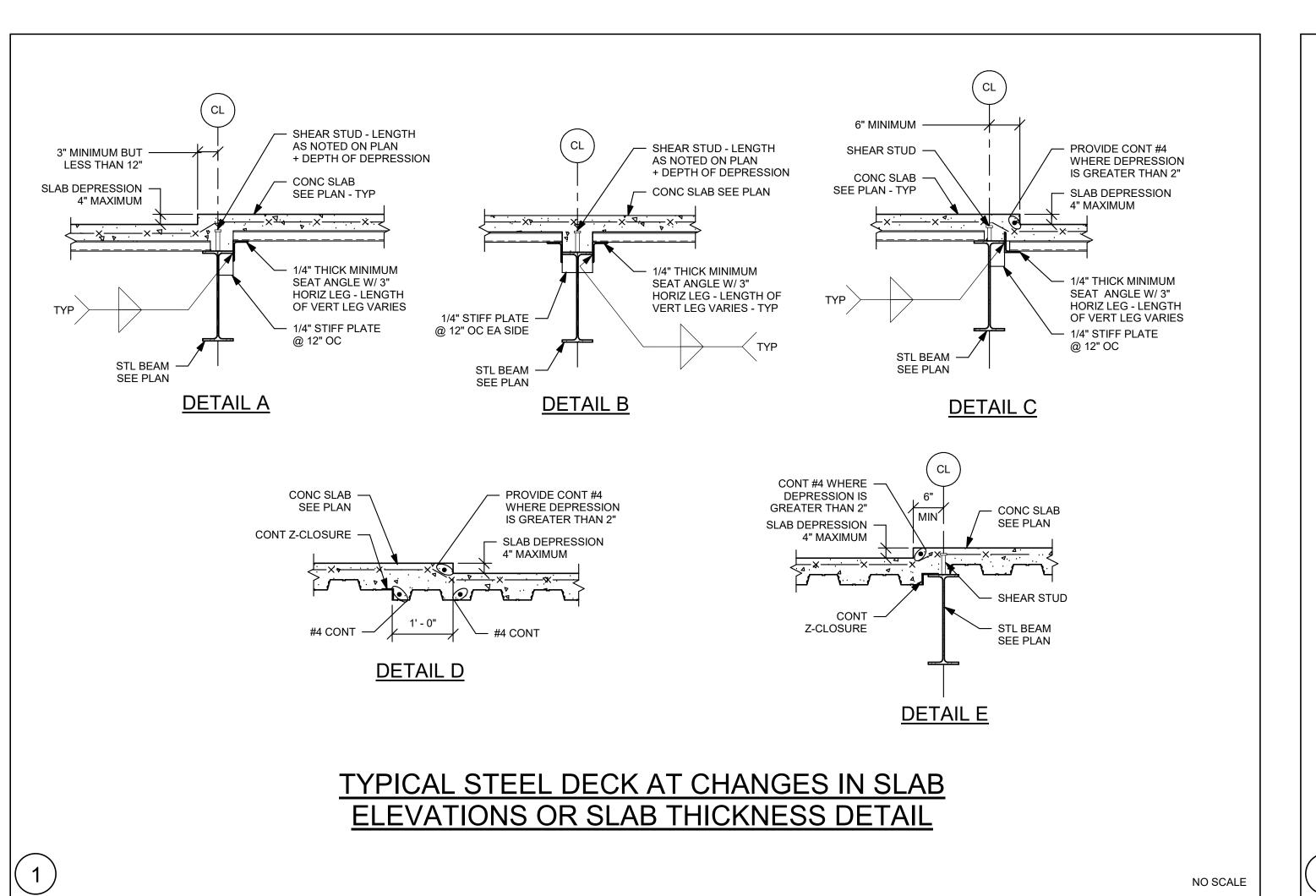


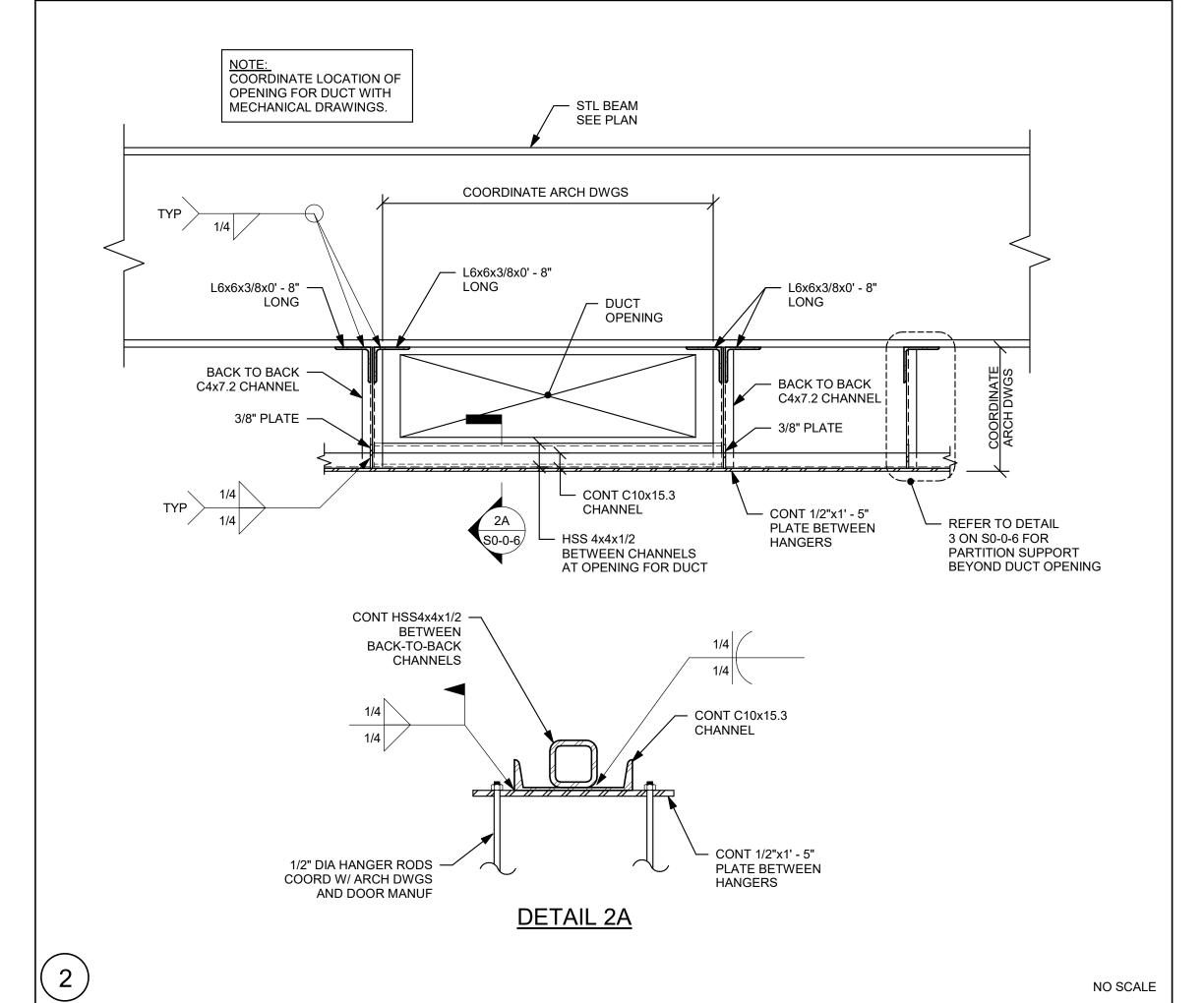


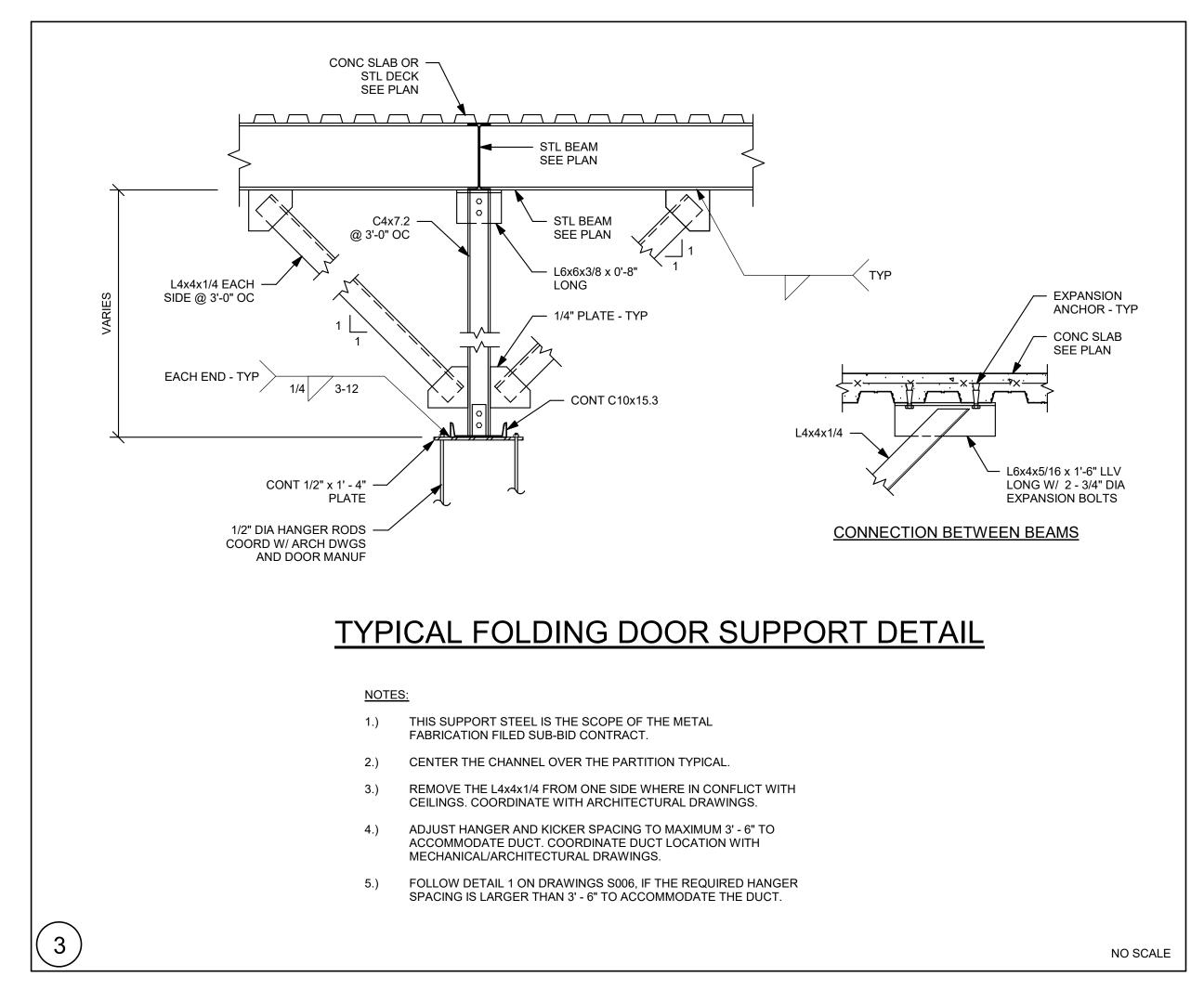


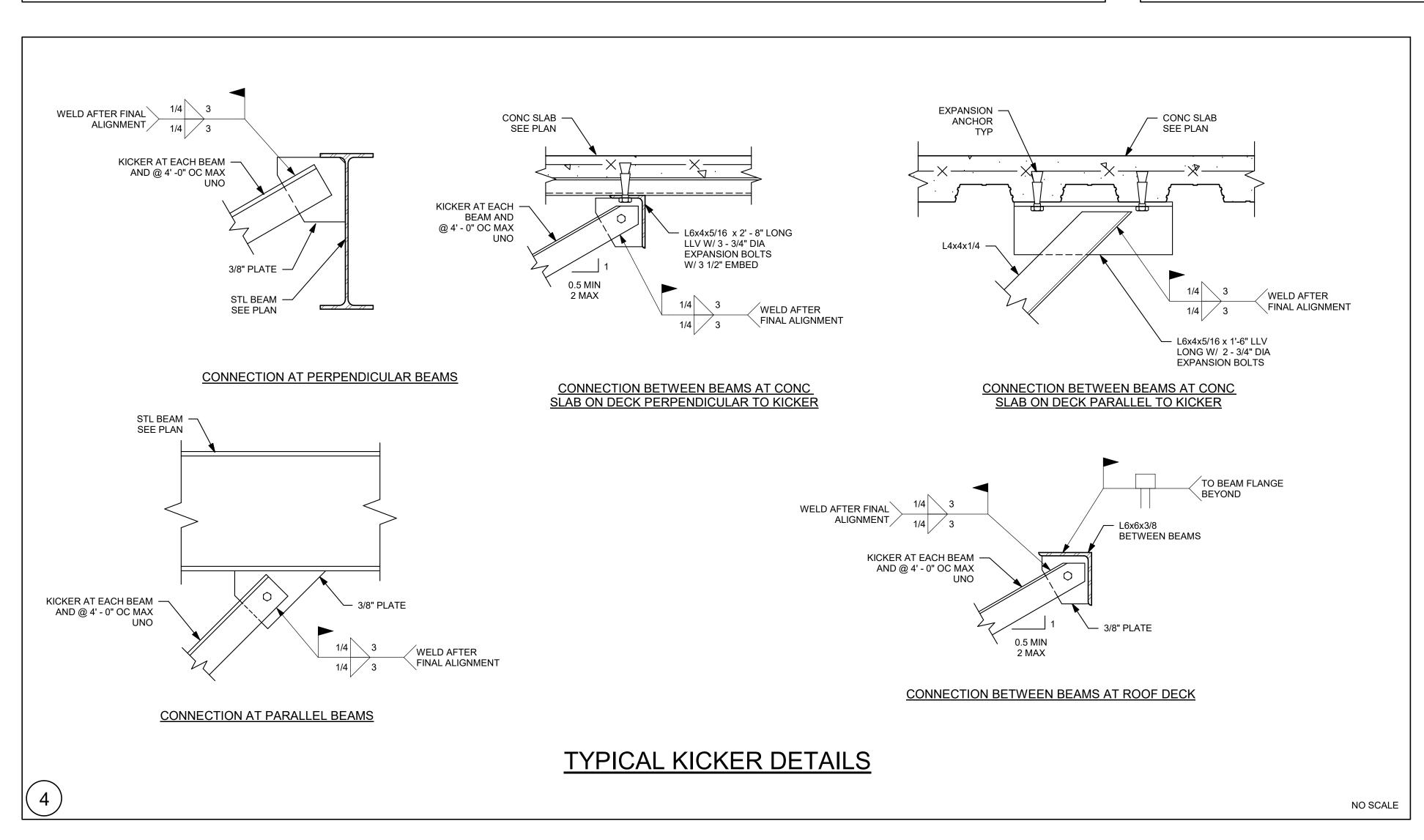


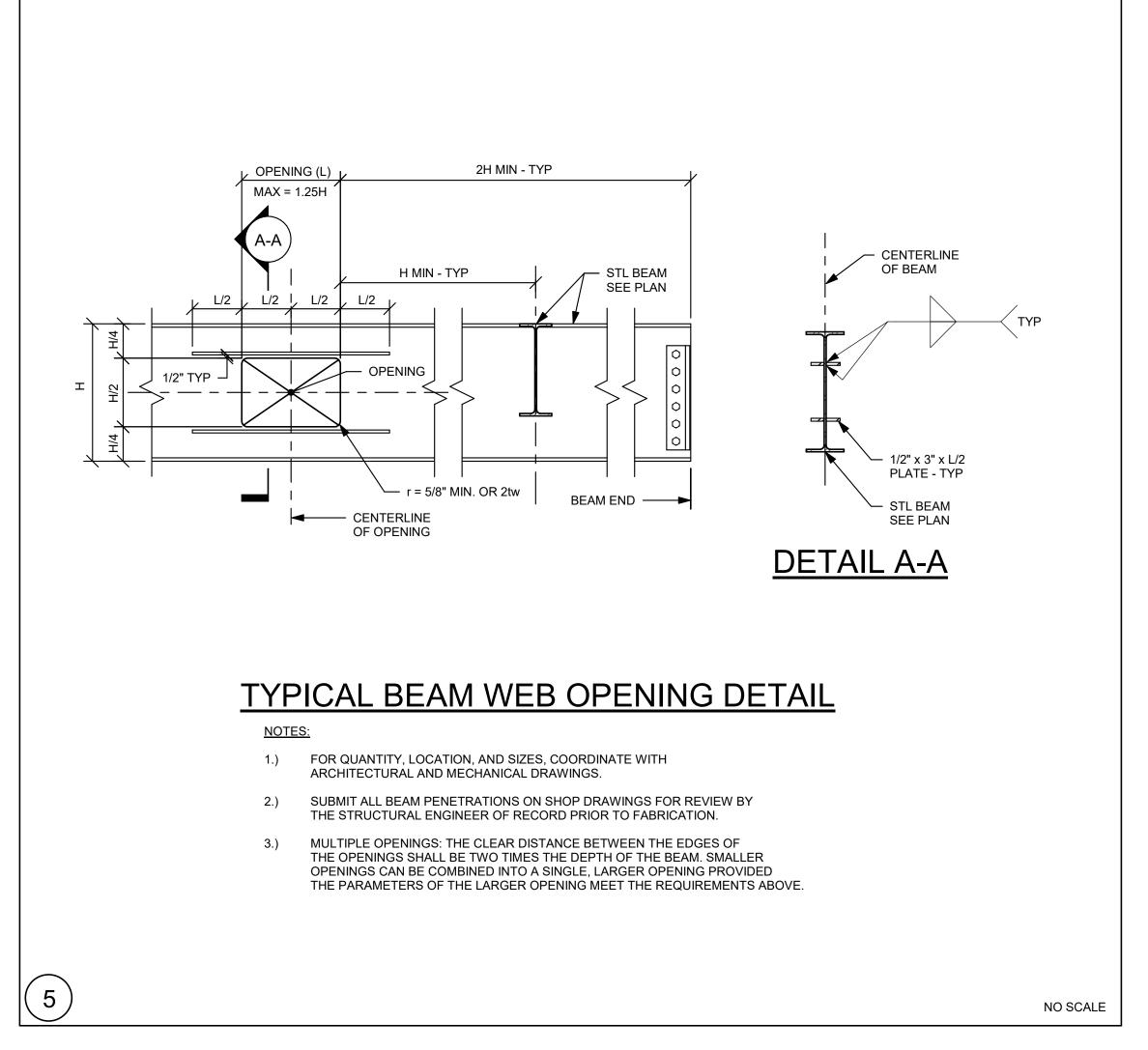


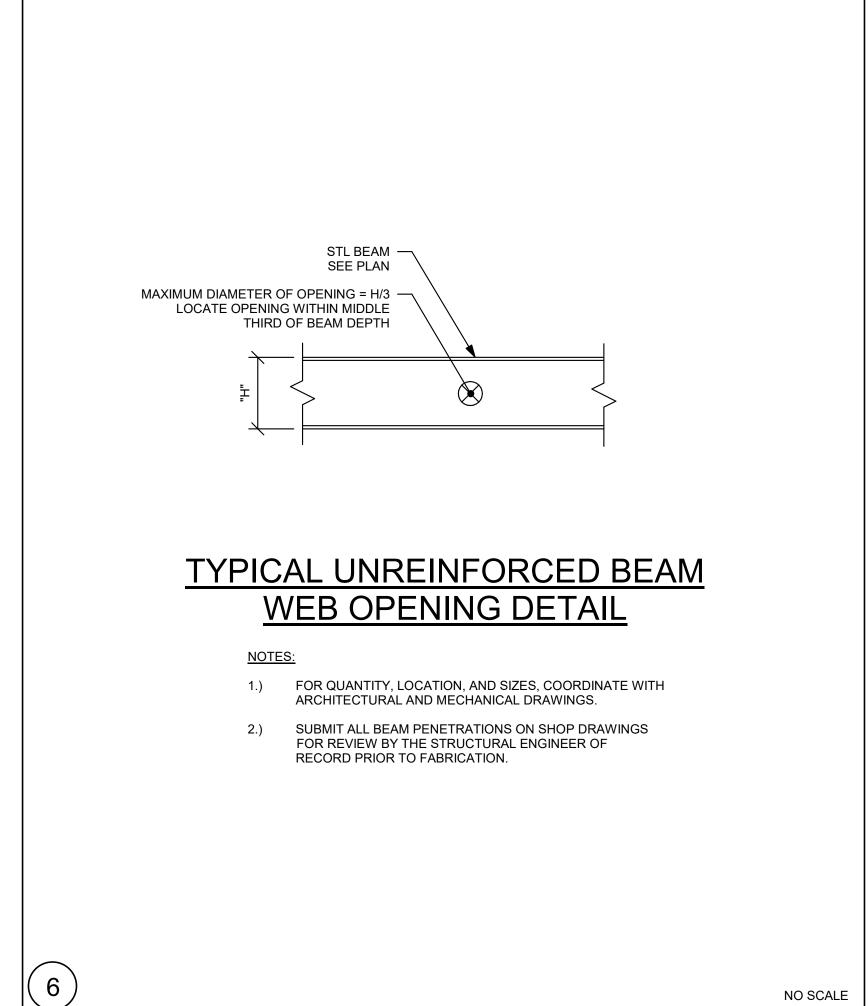


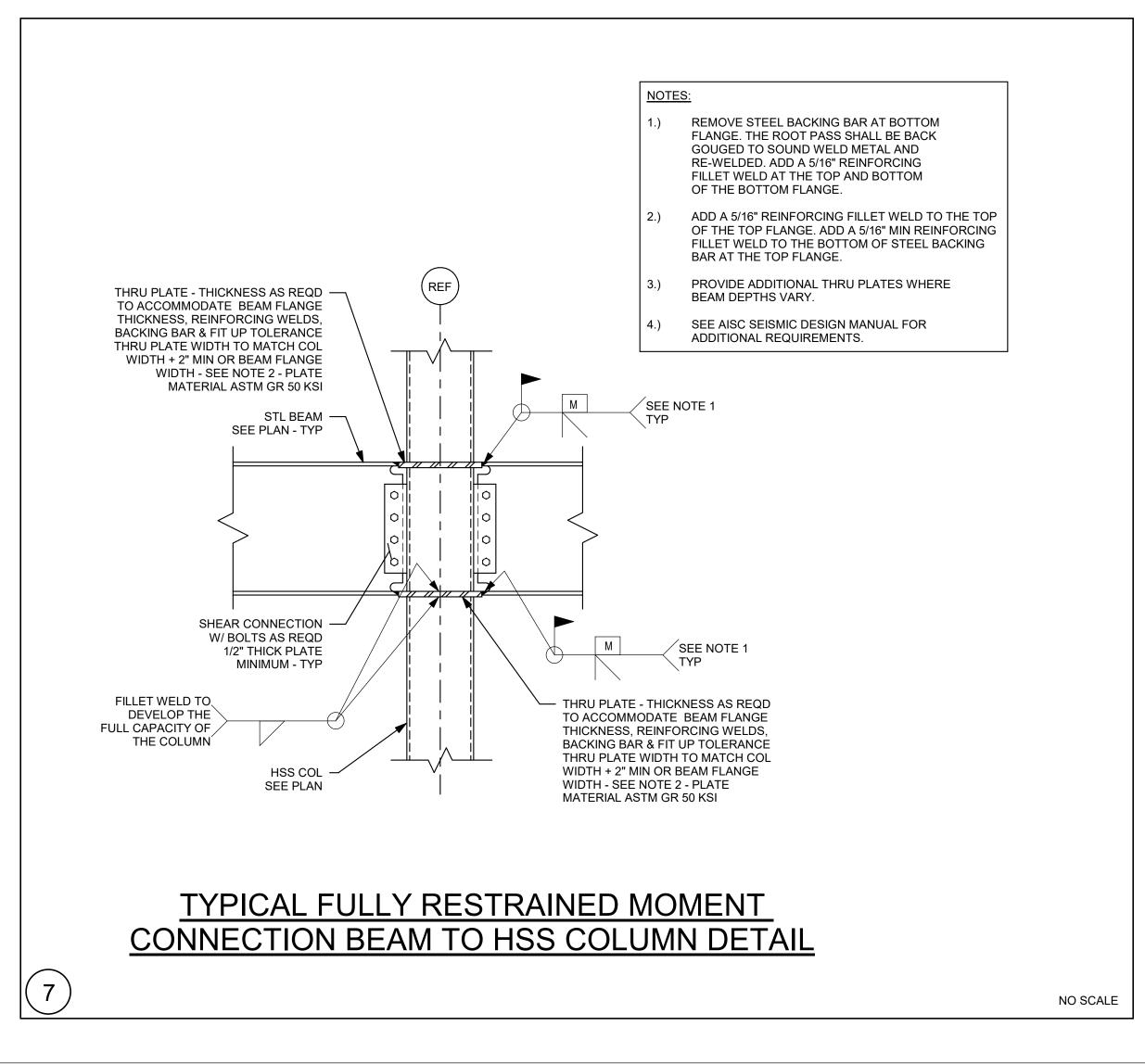


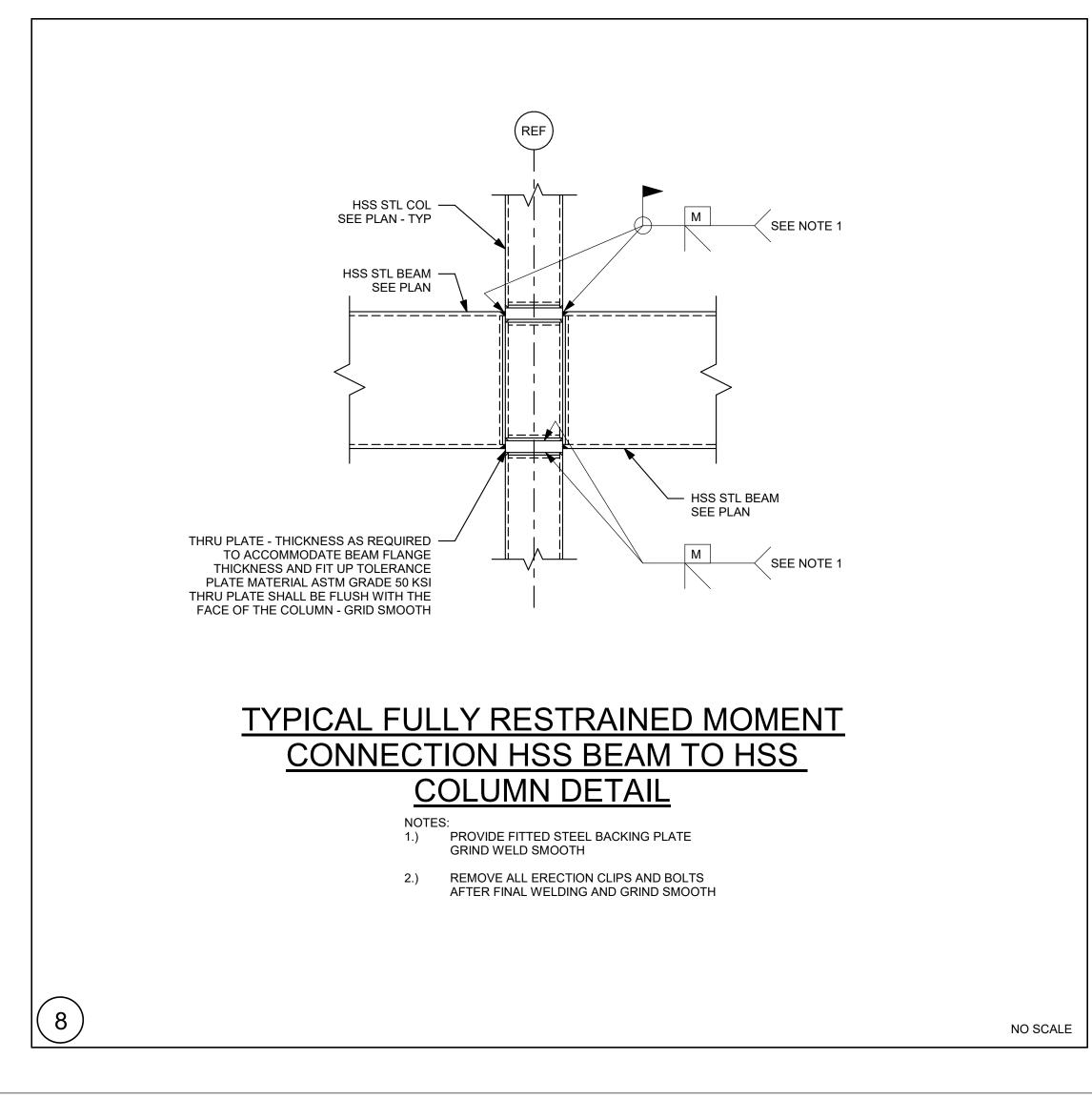


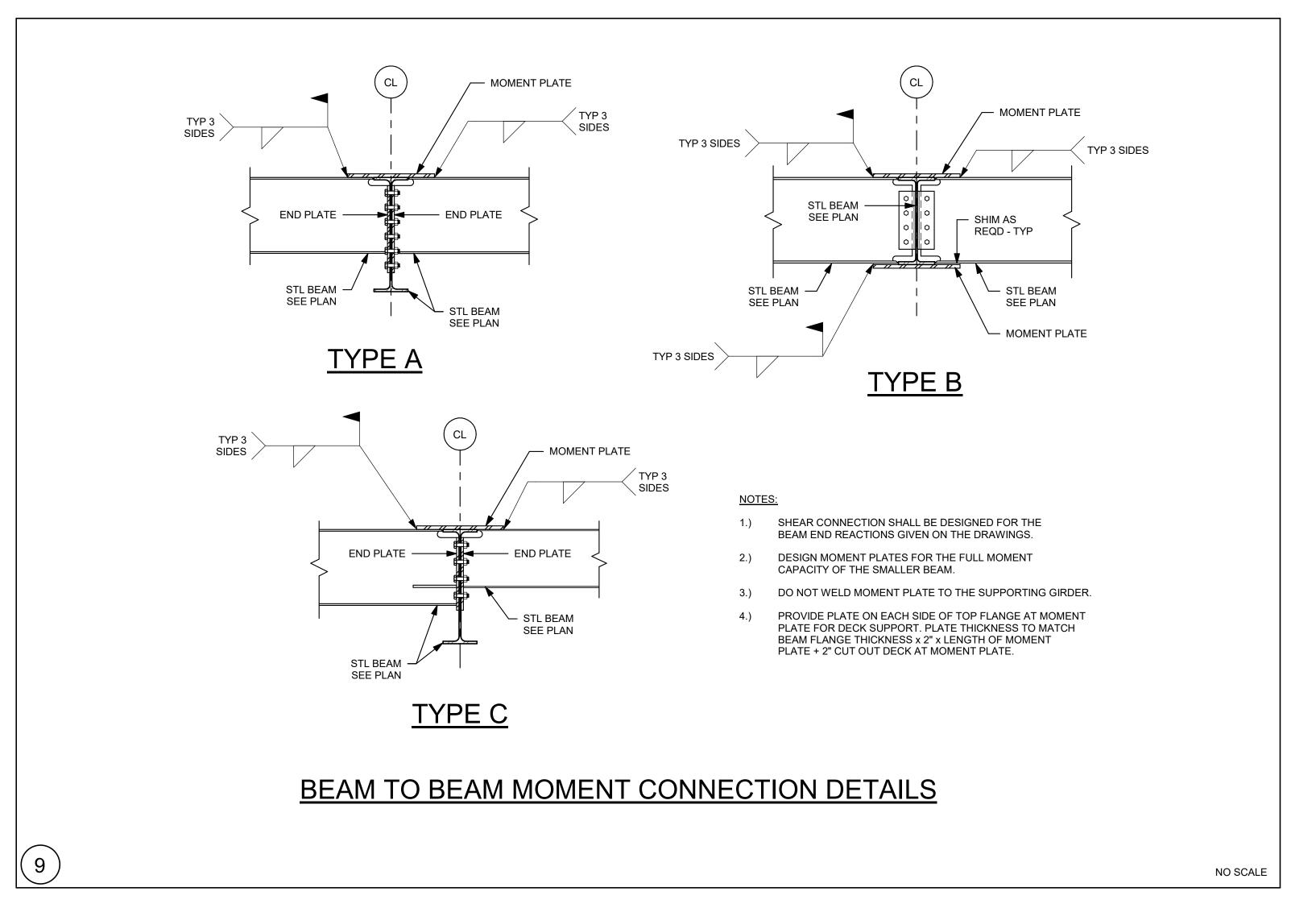














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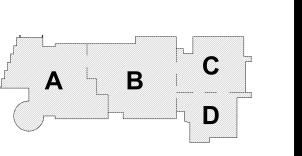
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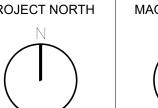
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EDG@EDGINC.COM

MSBA 60% CD Submission

01/13/2023



PROJECT NORTH MAGNETIC NORTH



VDIO A I

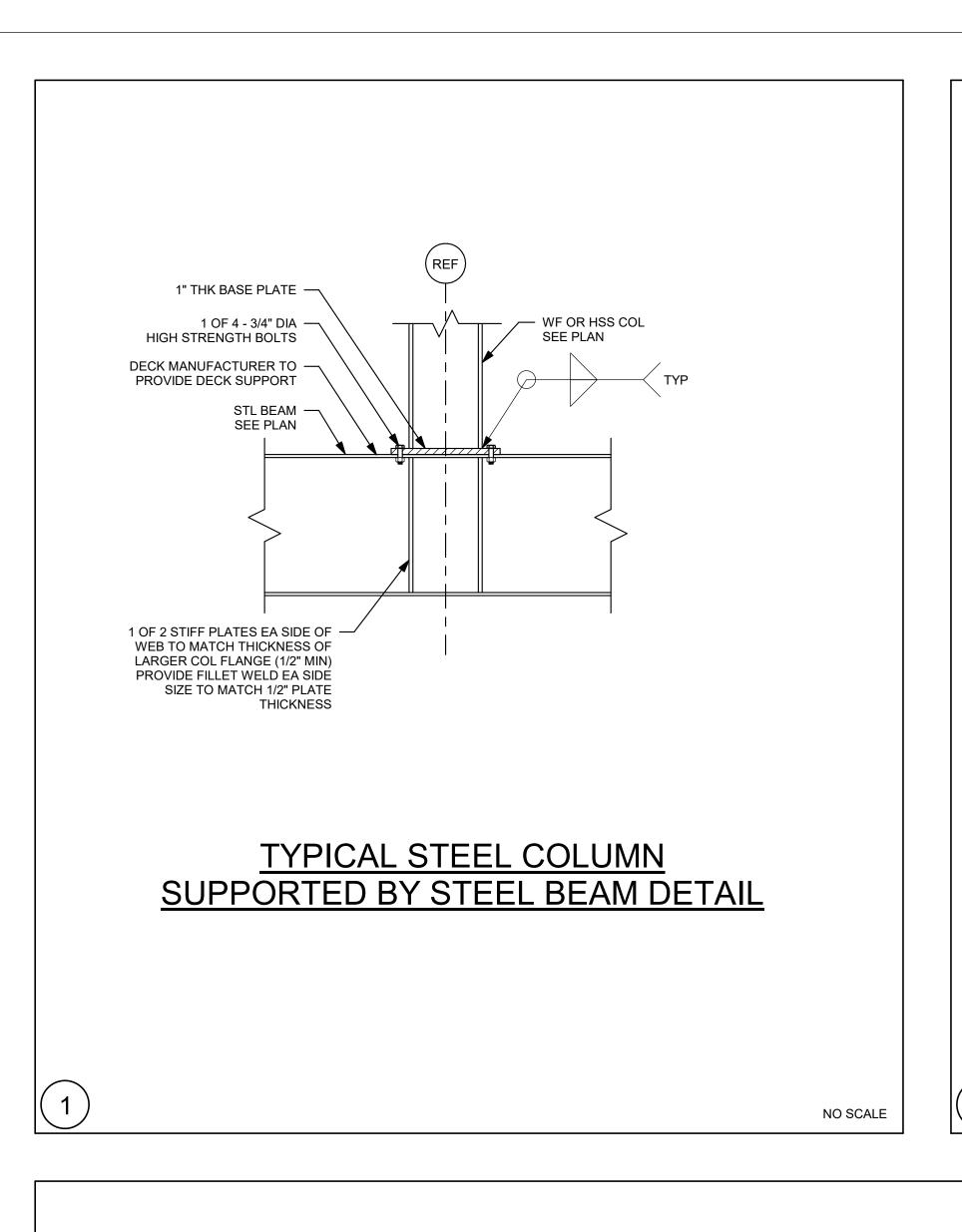
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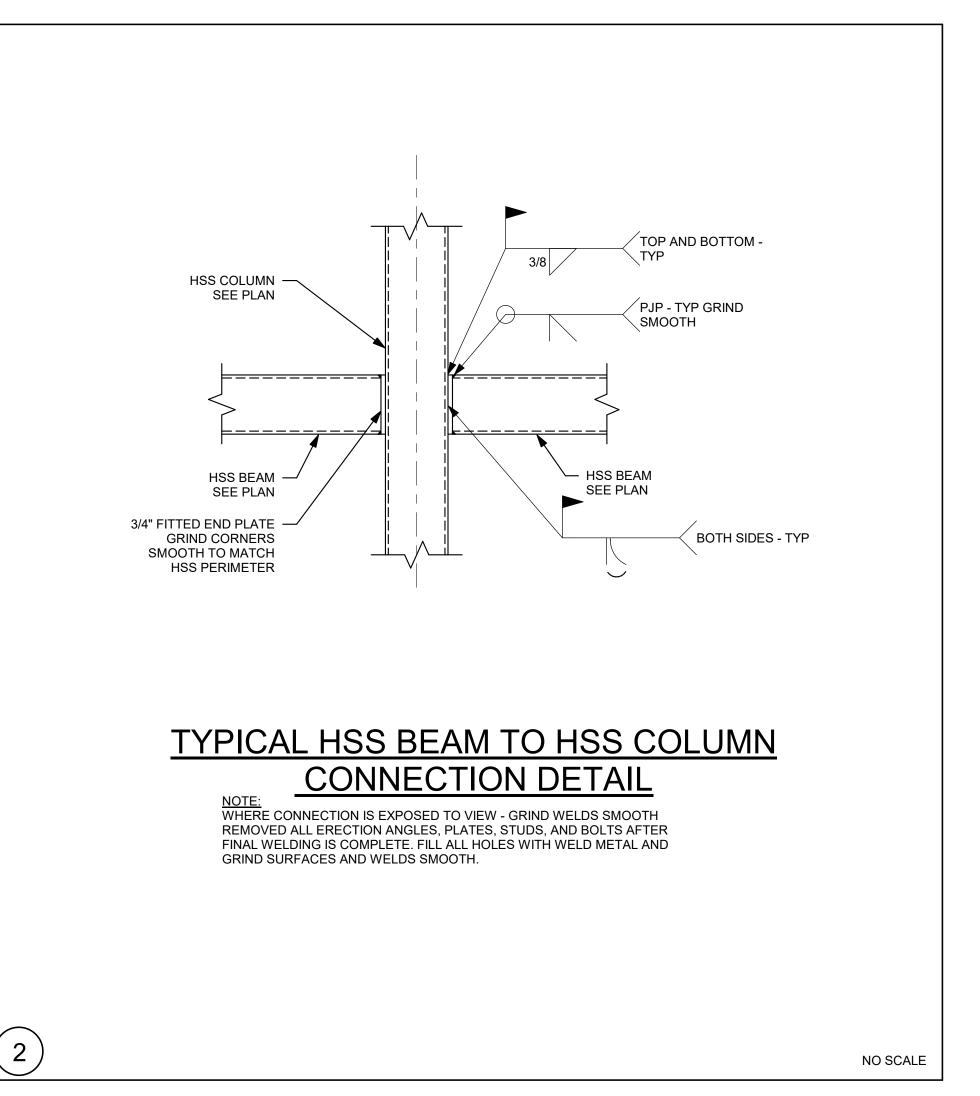
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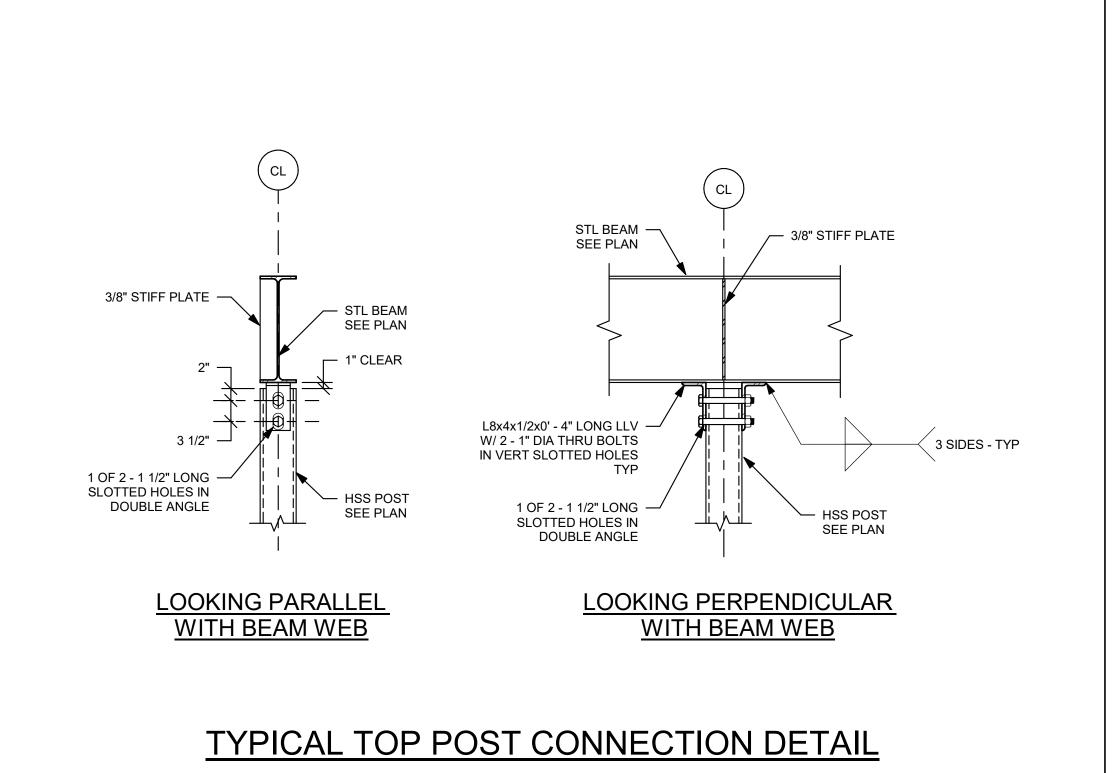
Job No.: 20202

Drawn By: EDG

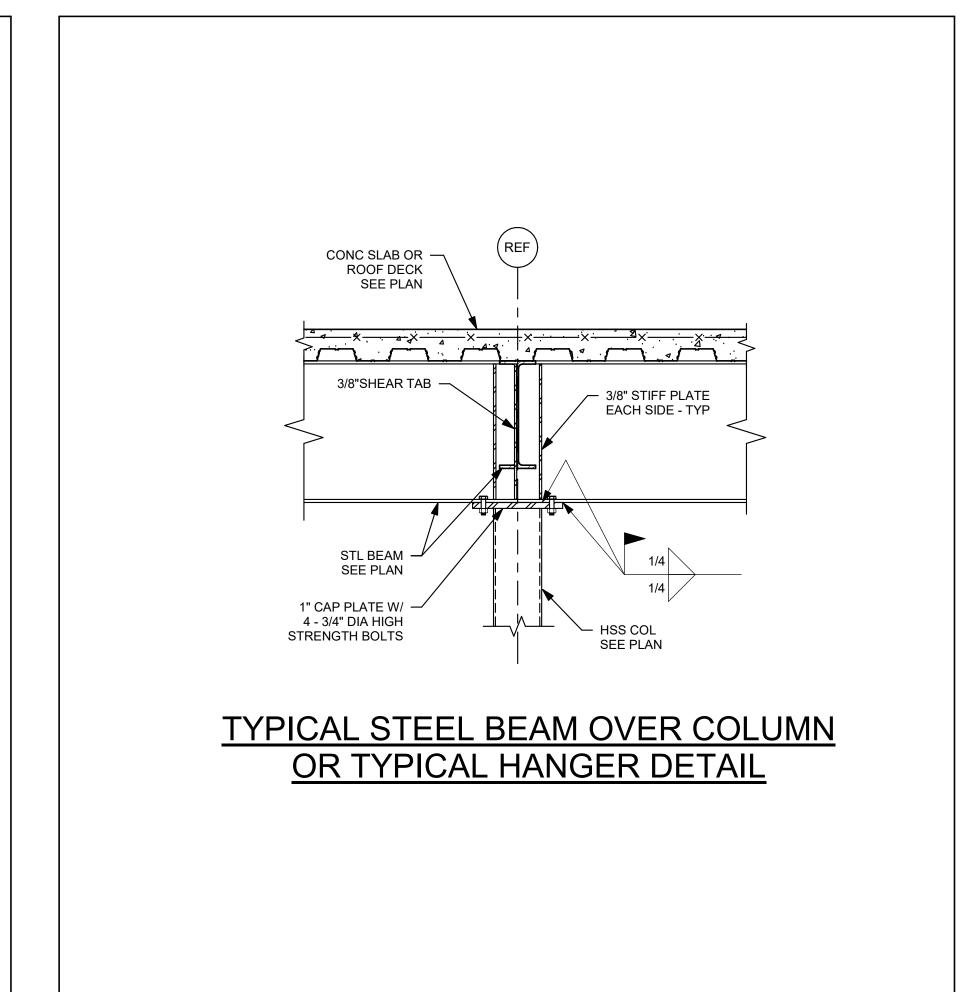
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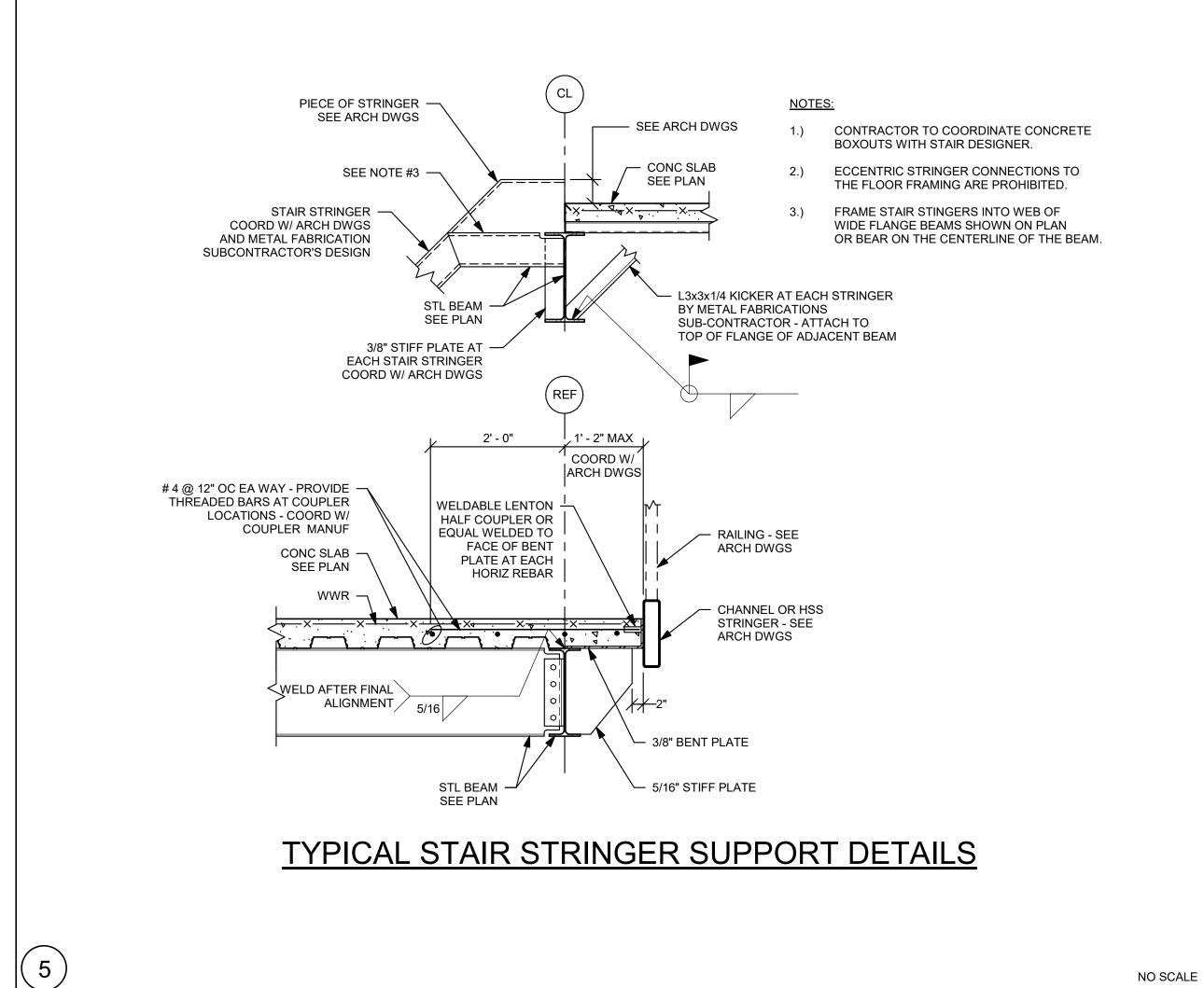


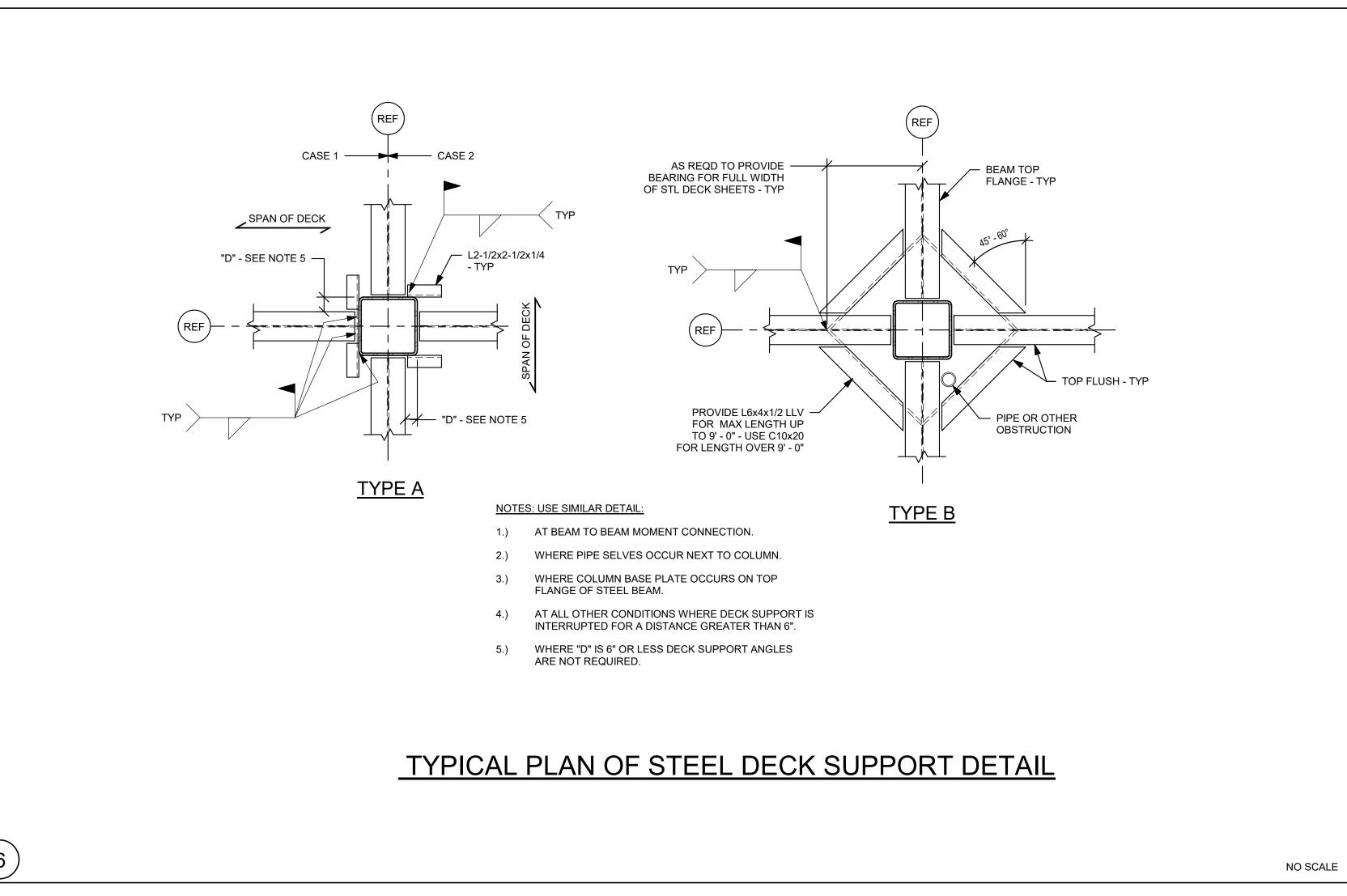


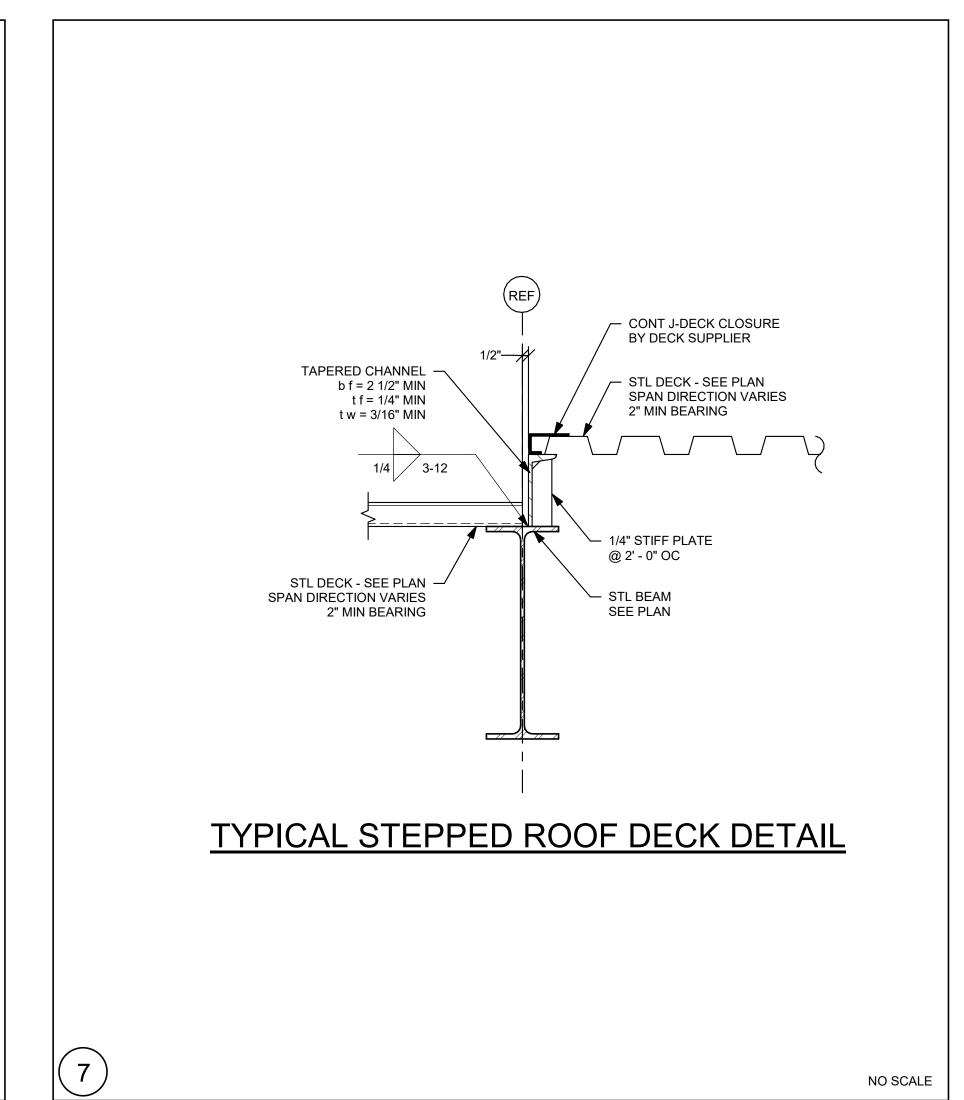


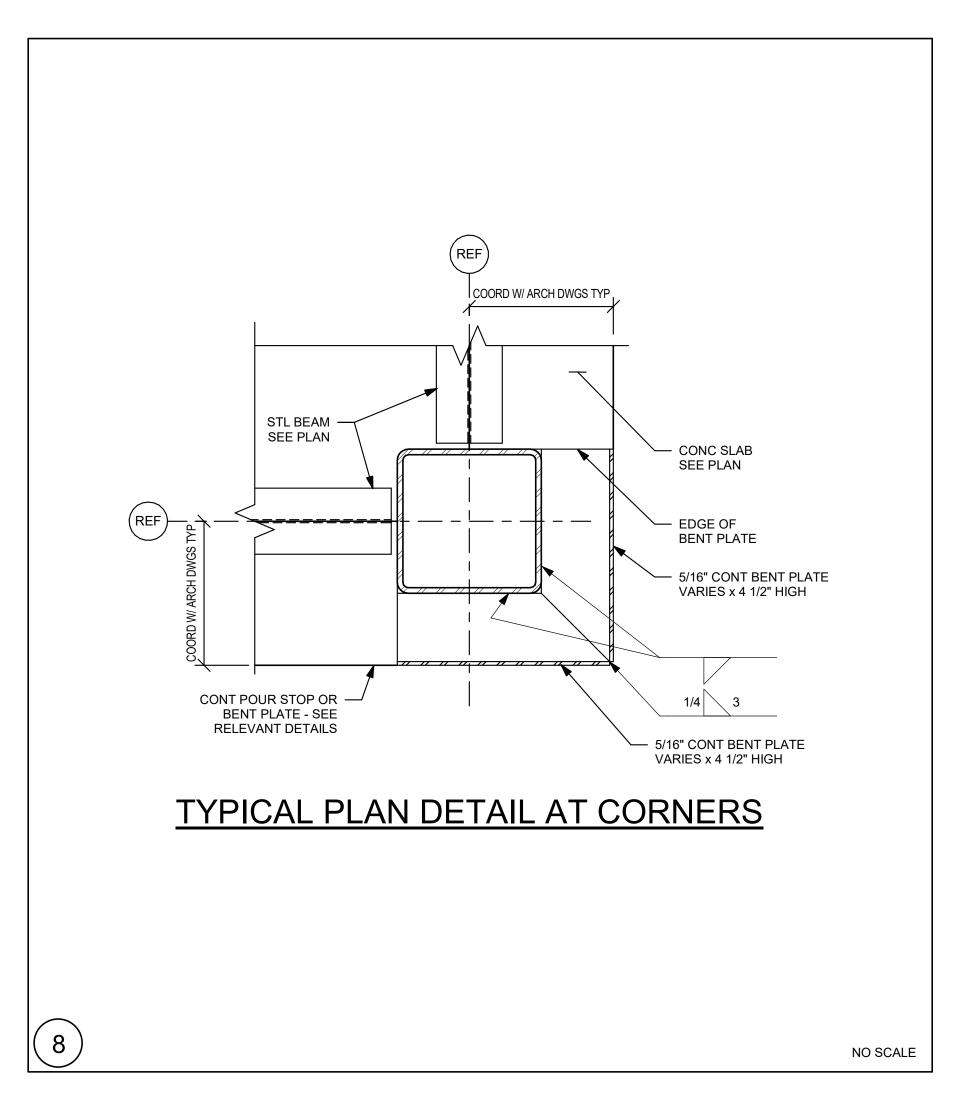
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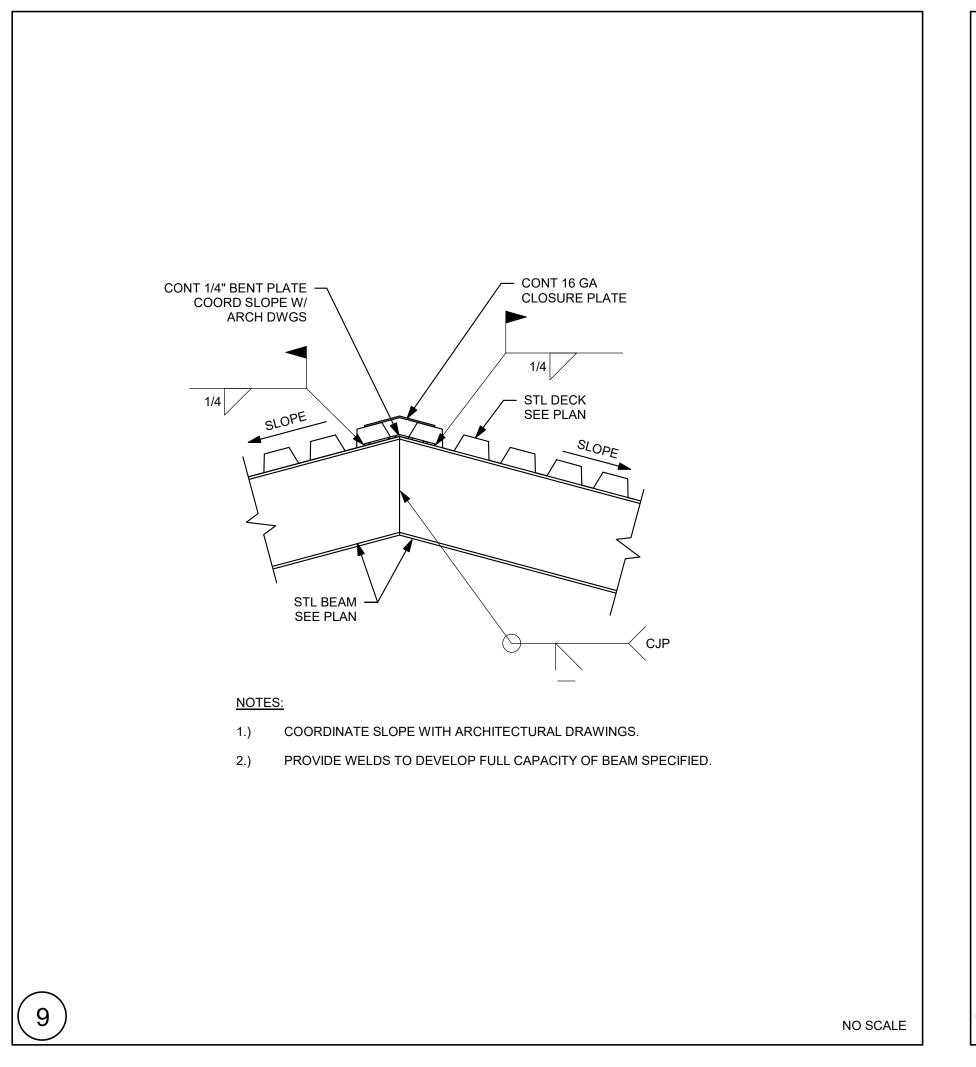


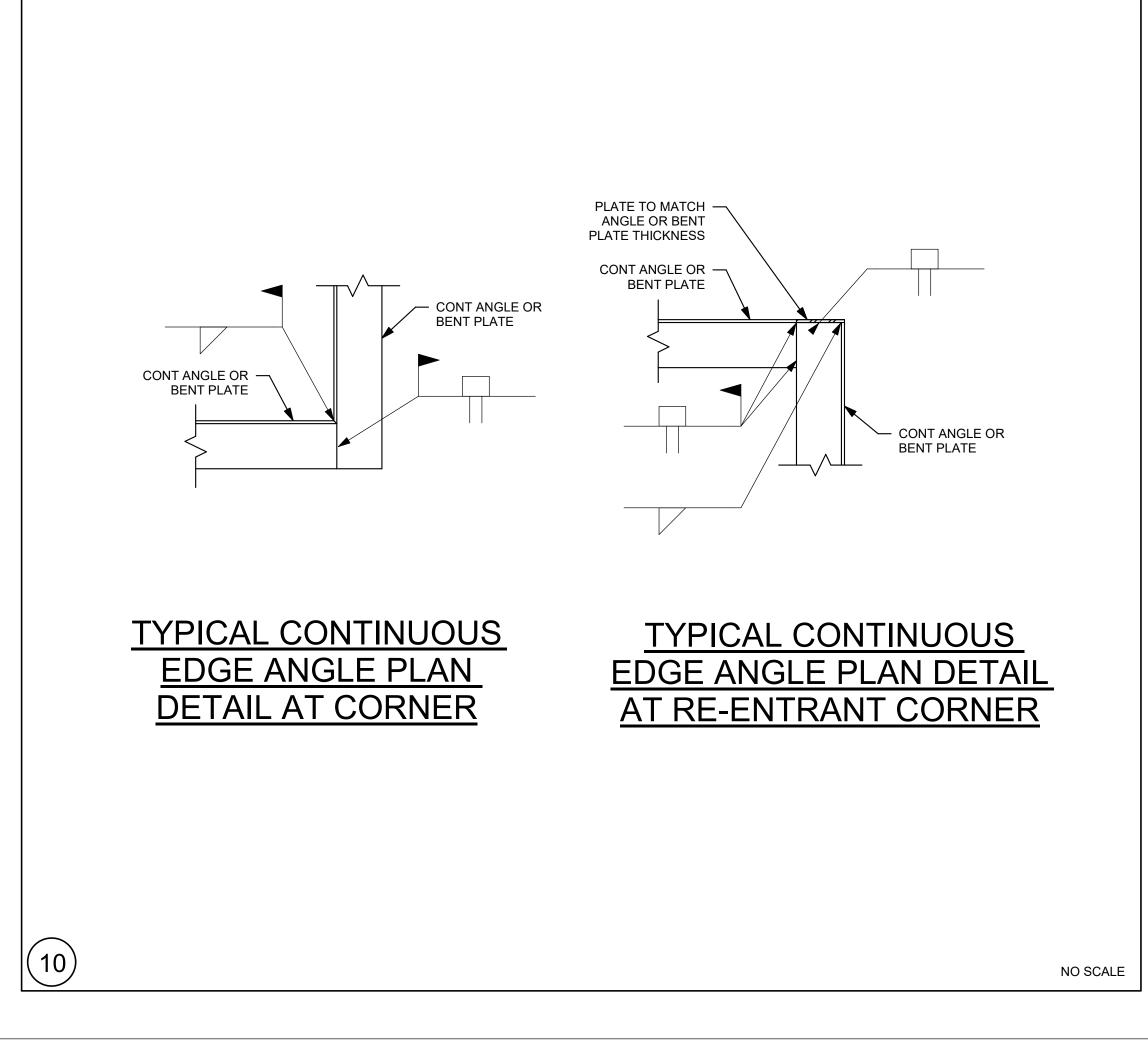


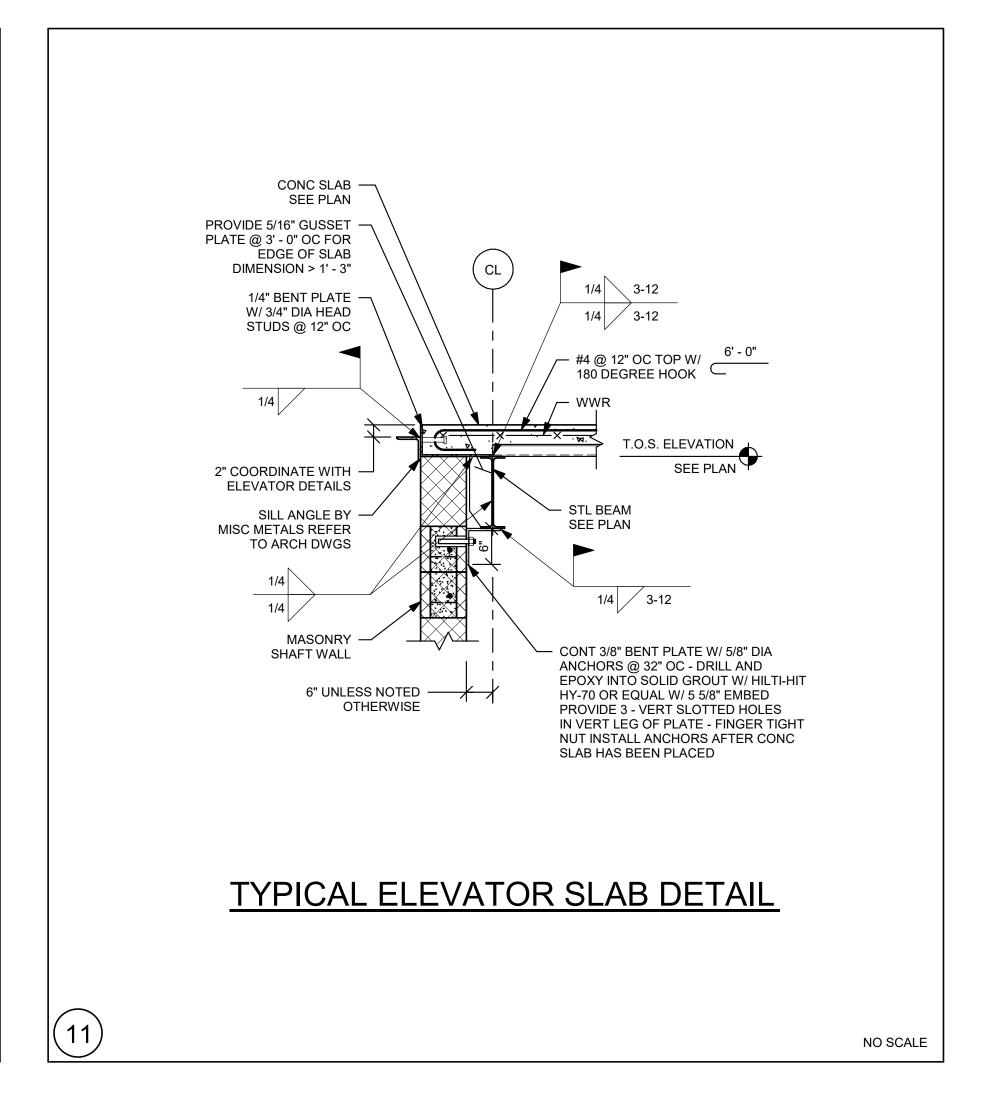














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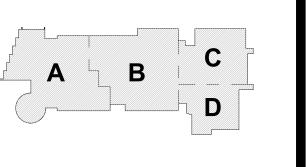


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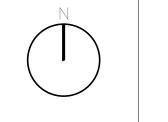
NO SCALE

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KEY PLAN
PROJECT NORTH MAGNETIC NORTH

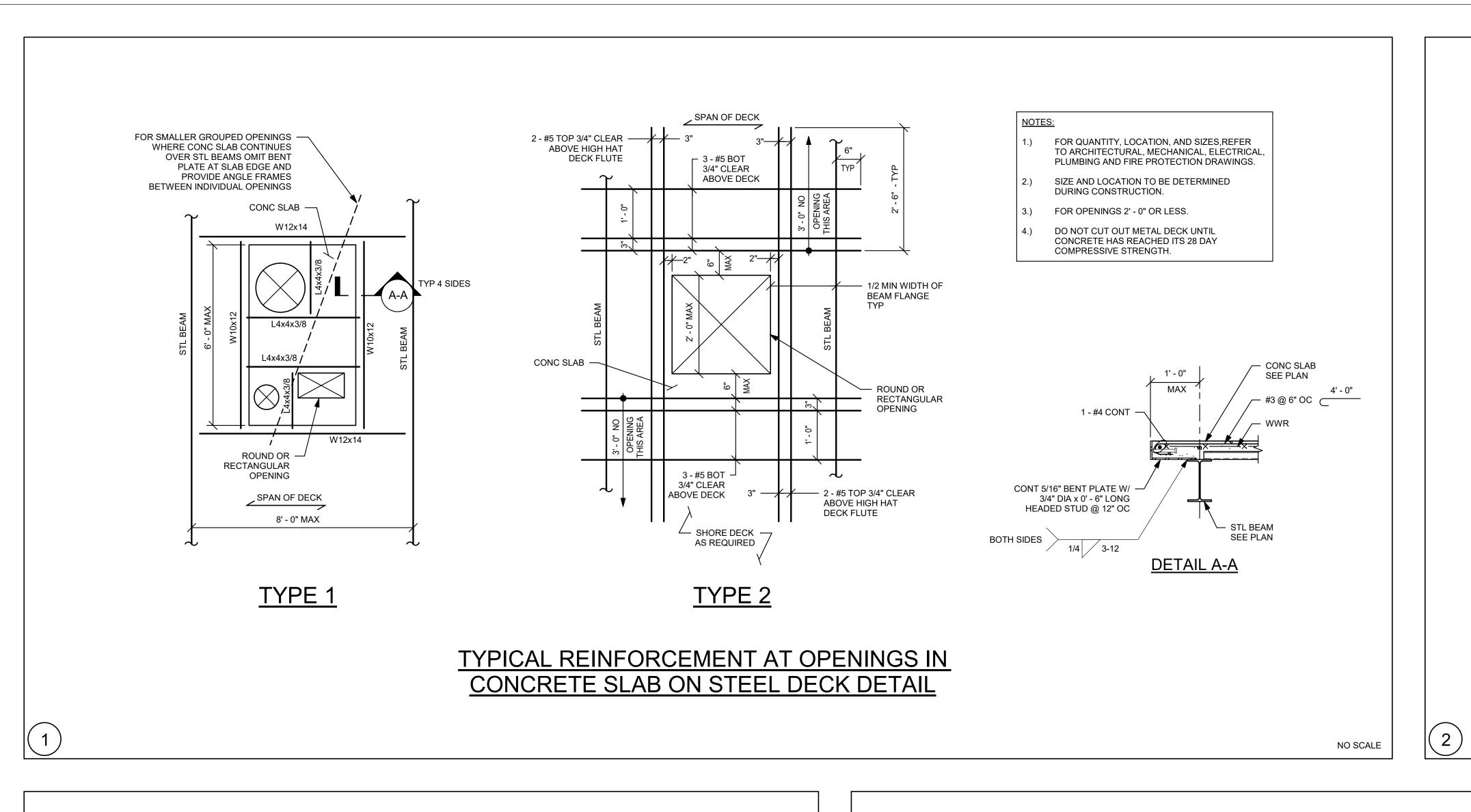


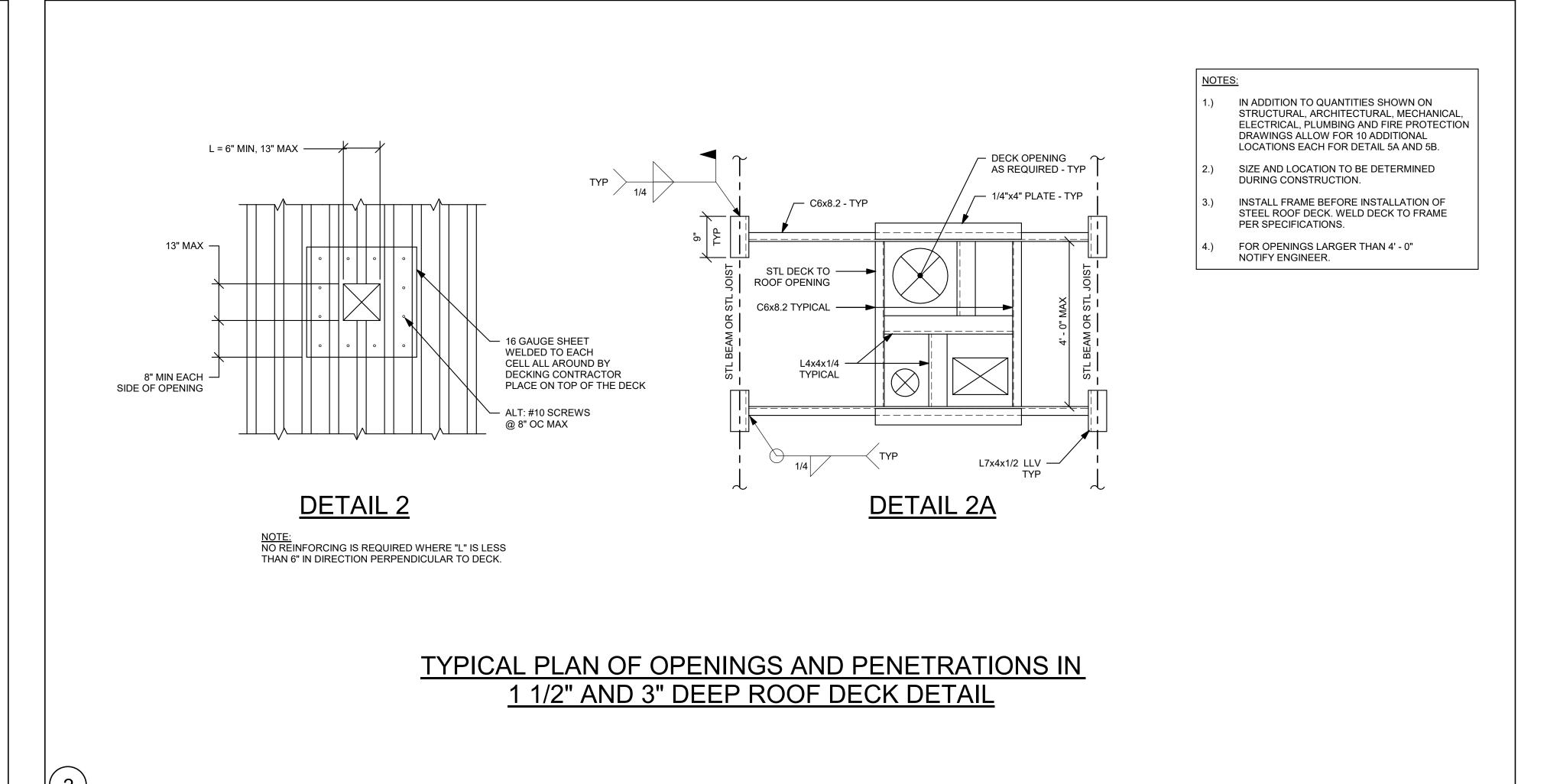
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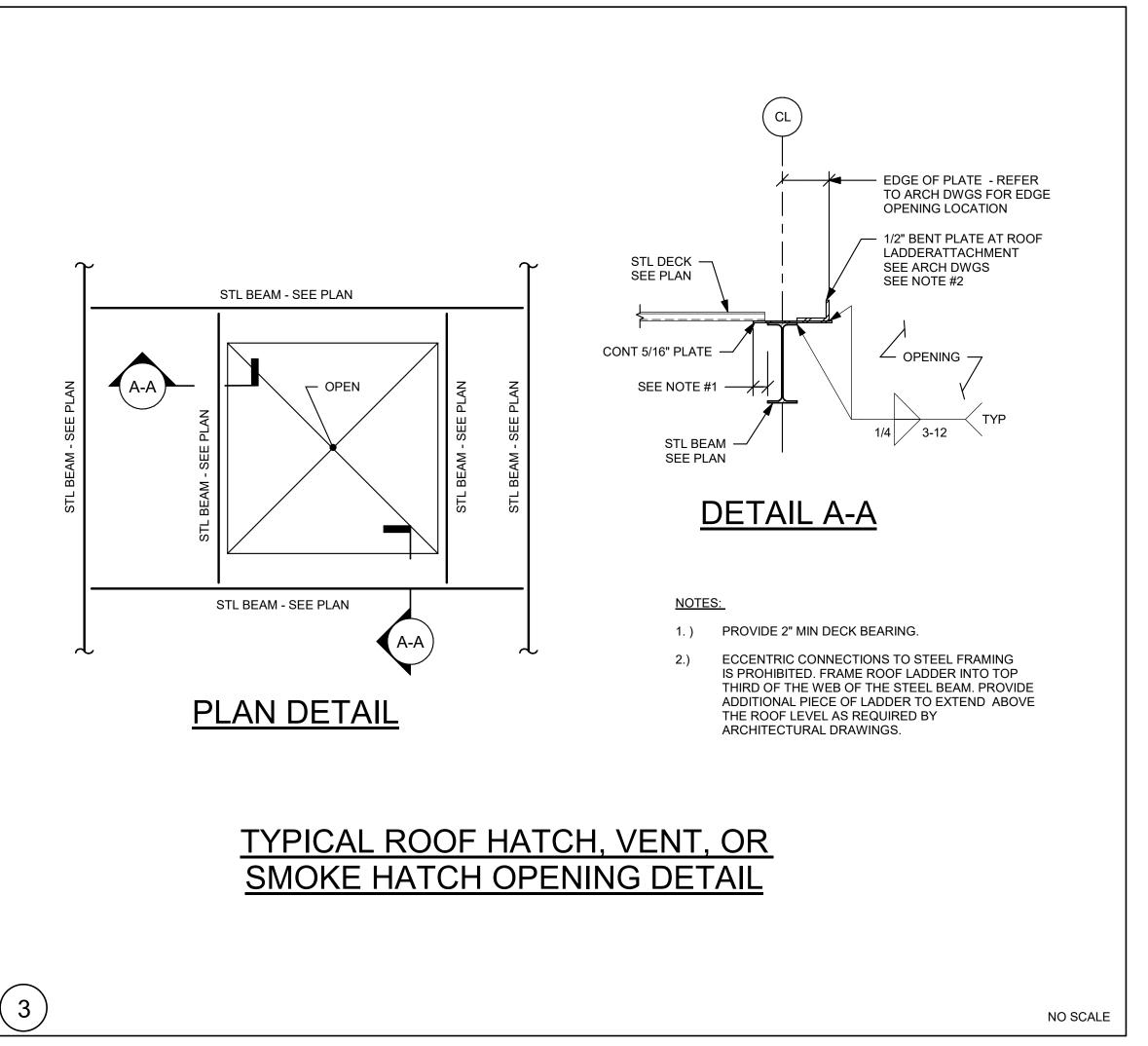
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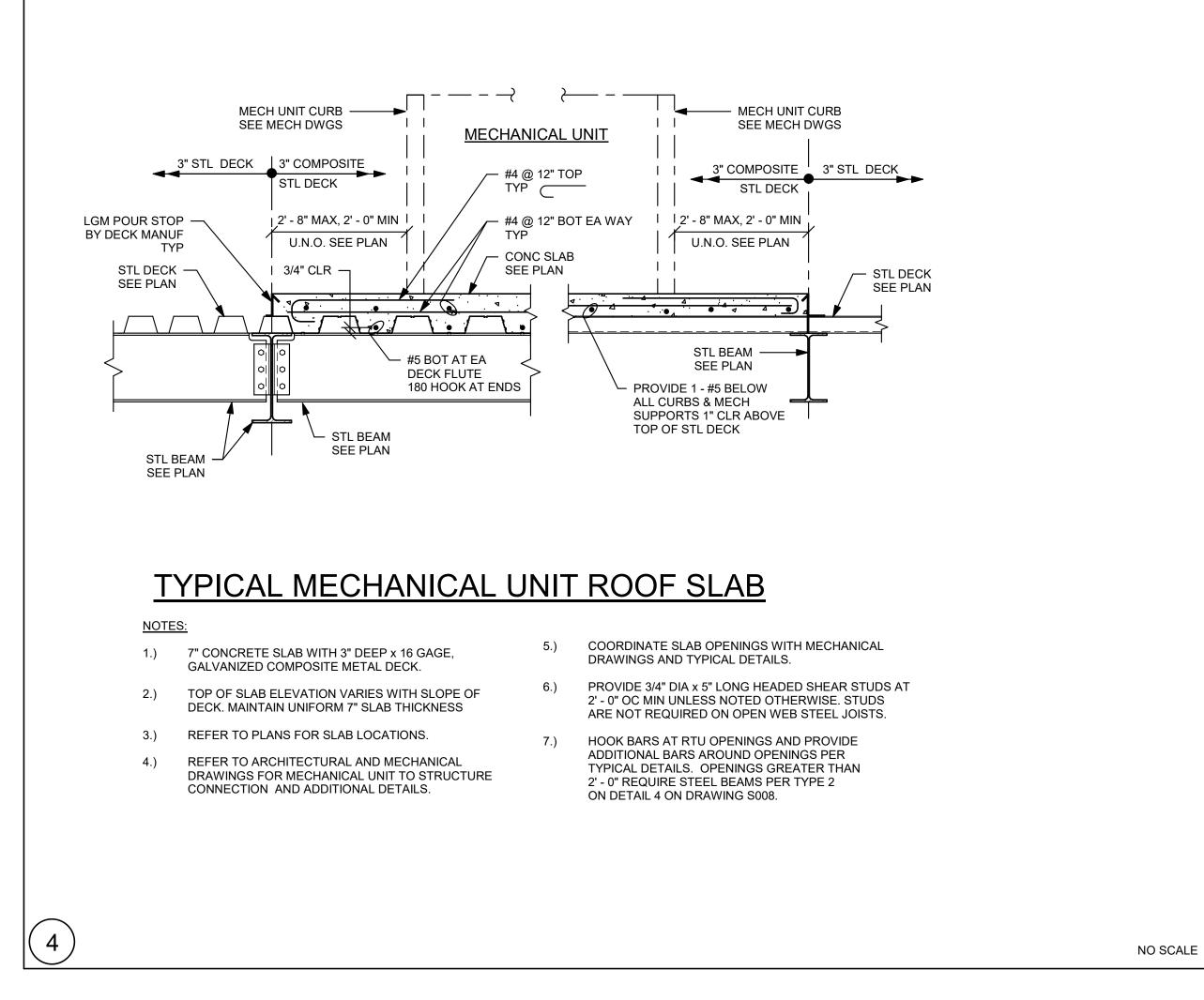
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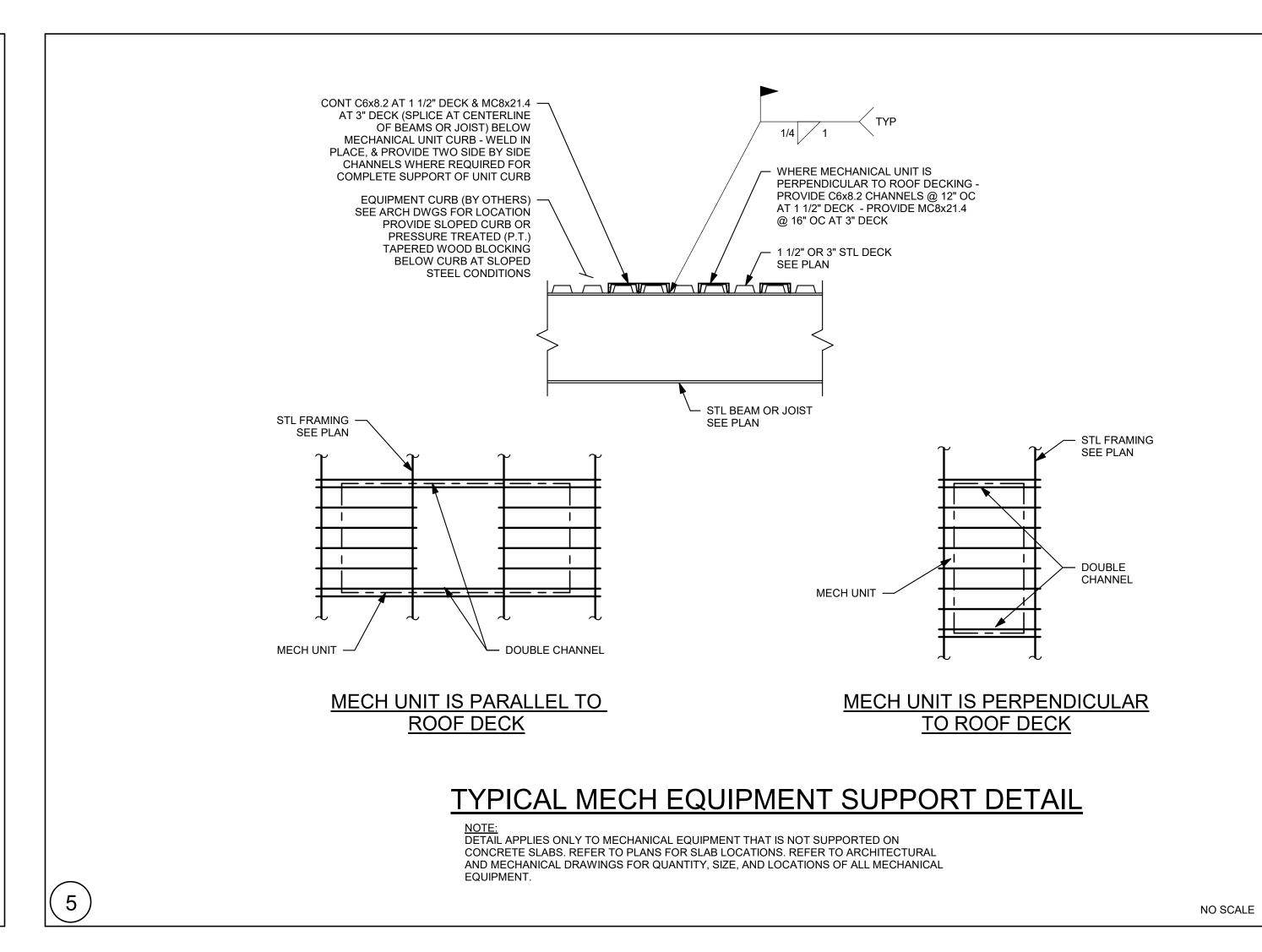
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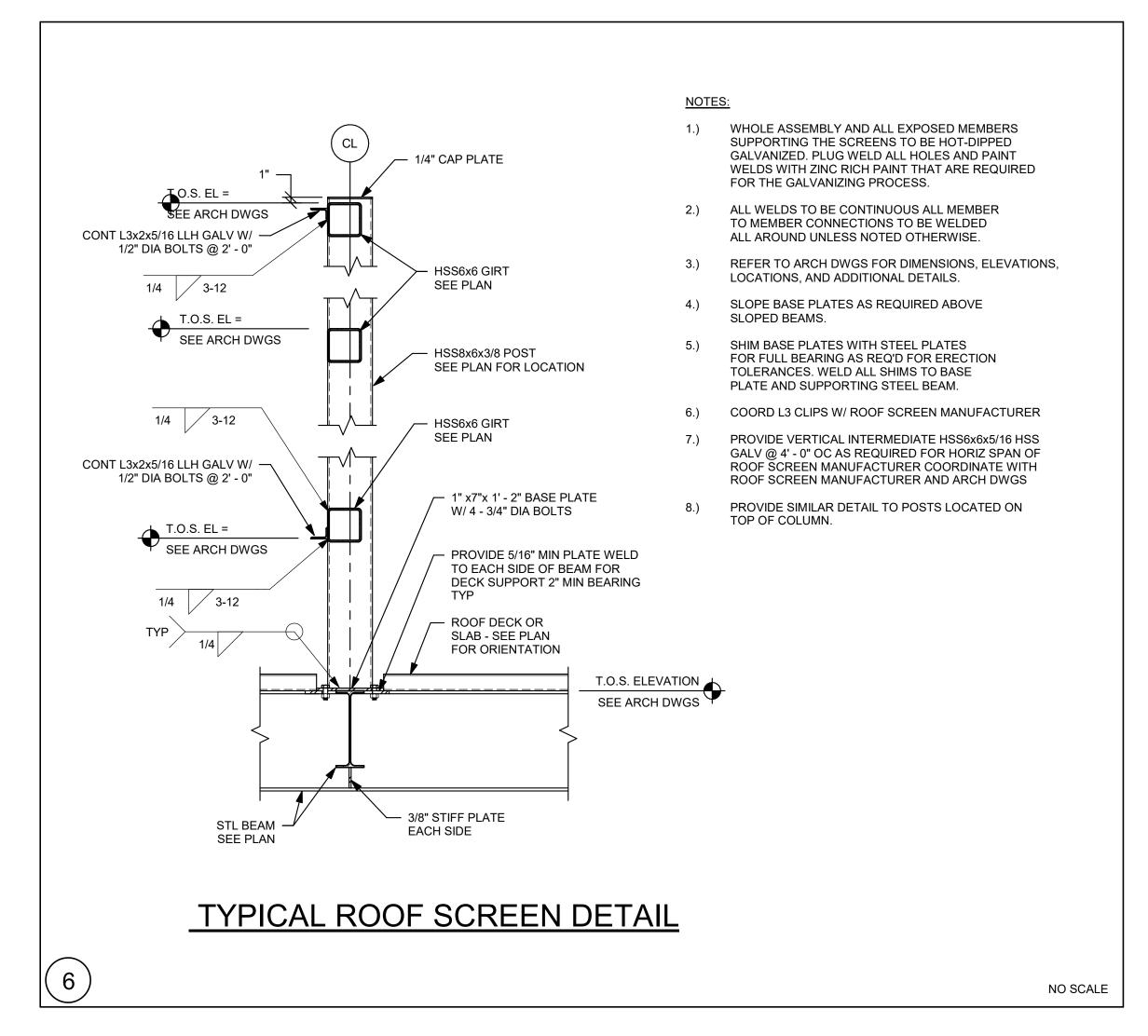


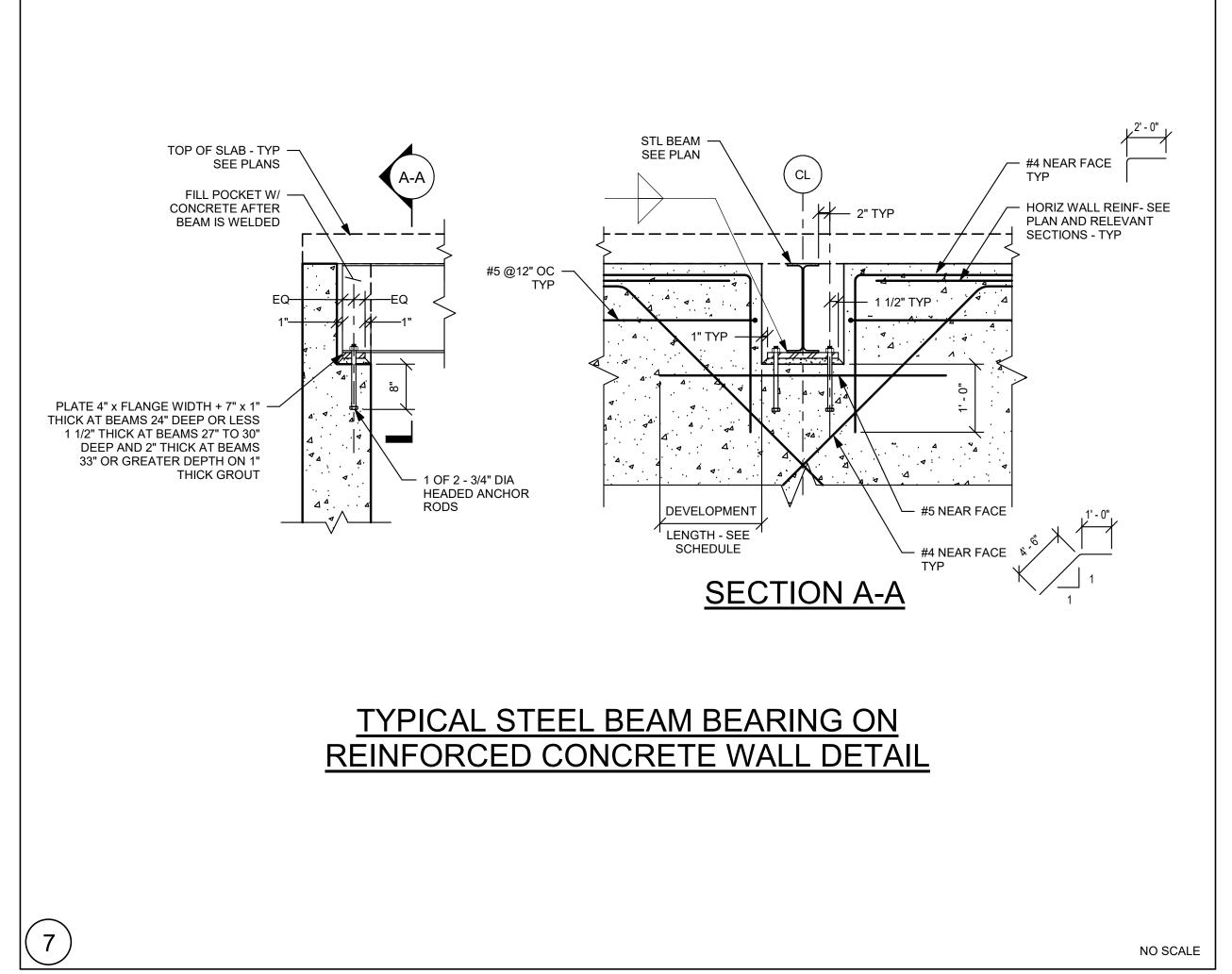


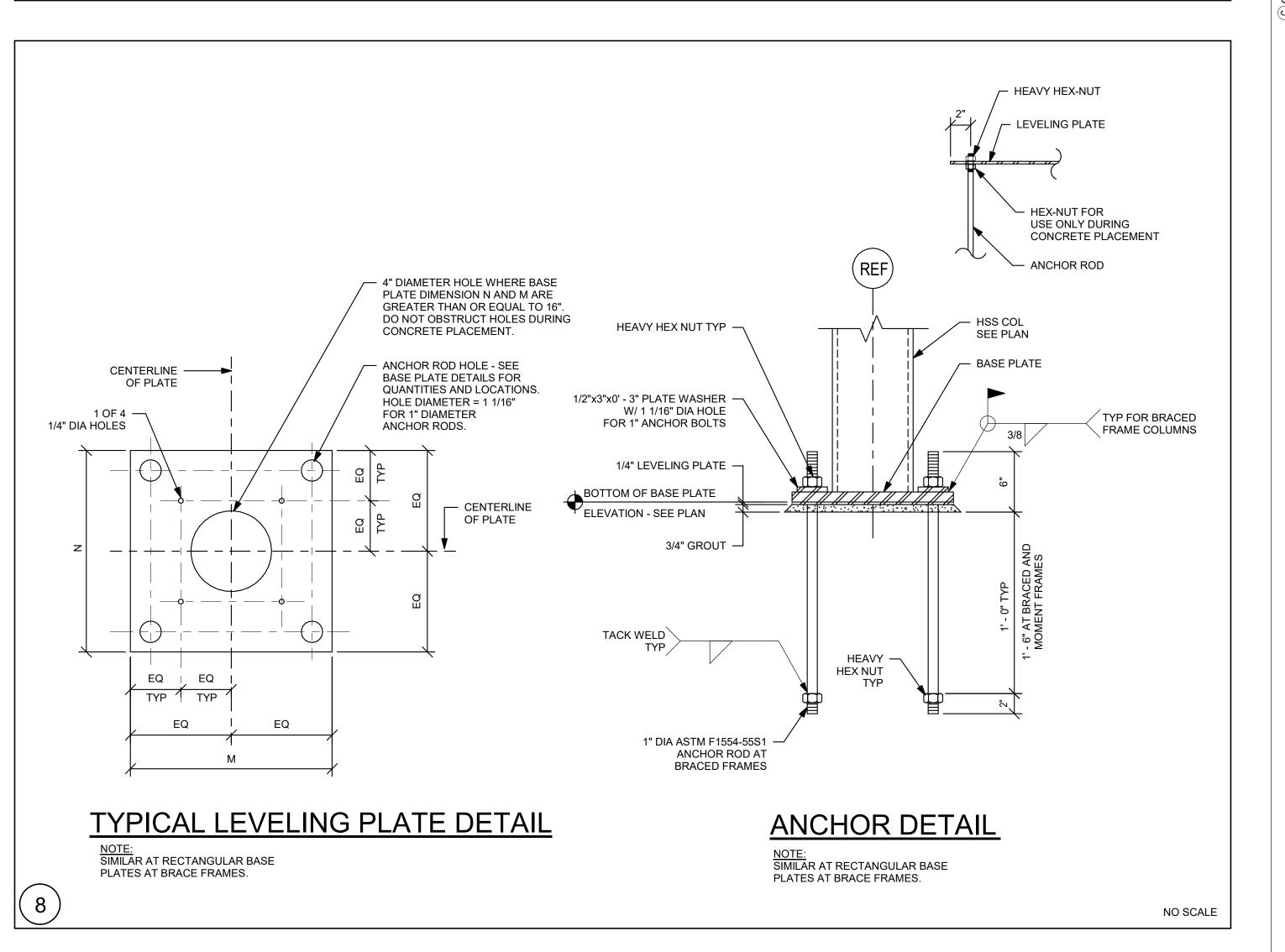














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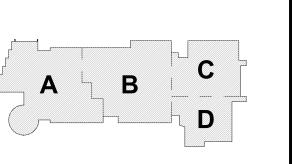
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KEY PLAN

CT NORTH MAGNETIC NORTH

PROJECT NORTH MA

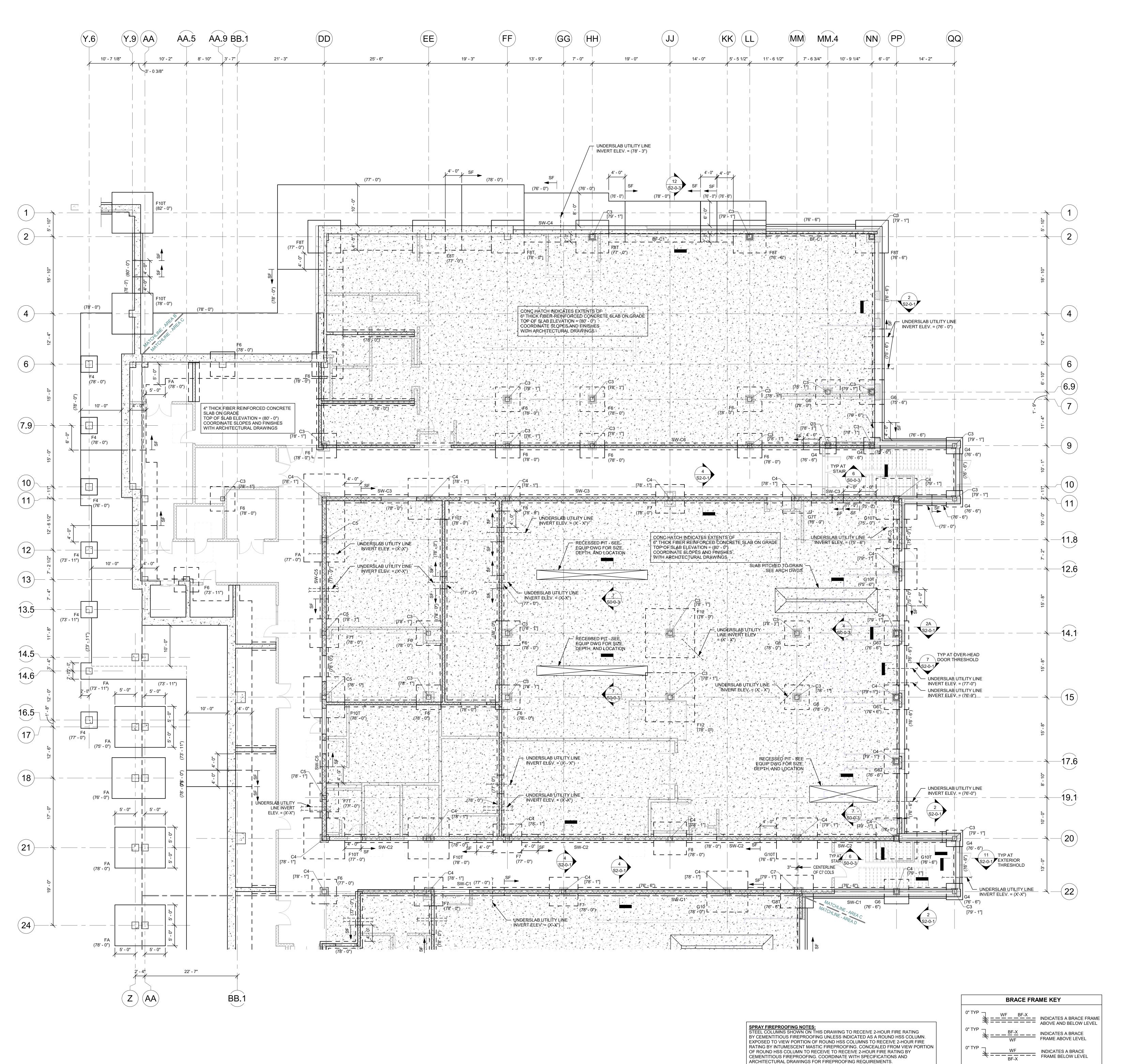
TYPICAL DETAILS

Scale: As indicated

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023



FOUNDATION NOTES:

- REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS THE STRUCTURAL DRAWINGS USES A DATUM OF (100' - 0") AT THE FIRST FLOOR LEVEL, EQUAL TO (163.50') ON THE SITE GRADING PLANS.
- 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS
- S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8. F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING
- 4.) TOP OF FOOTING ELEVATION TO BE 3' 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' - 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (x' - x") COMPUTED FROM A DATUM ELEVATION OF 100' - 0" ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S

AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.

- 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 6.) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- 7.) SF INDICATES A STEPPED FOOTING REFER TO → DETAIL1 ON DRAWING S0-0-2.

FIELD LAYOUT.

- 8.) C1 ETC... INDICATES A COLUMN TYPE, FOR SIZE OF COLUMNS AND BASE PLATES SEE SCHEDULE ON THIS DRAWING.
- BOTTOM OF BASE PLATE ELEVATION TO BE 1' 11" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0' - 11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS [XX' - XX"] REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- 10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS. 11.) "" INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON
- 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 13.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.

ARCHITECTURAL DRAWINGS.

- 14.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR OR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- 15.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 16.) $\ \ \Box$ INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL
- 17.) ← — ← INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 19.) CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

	COLUMN SCH	EDULE *
MARK	SIZE	BASE PLATE SIZE
C1	HSS8x8x3/8	1" x 16" x 1' - 4"
C2	HSS8x8x1/2	1" x 16" x 1' - 4"
C3	HSS12x12x3/8	1" x 20" x 1' - 8"
C4	HSS12x12x1/2	1" x 20" x 1' - 8"
C5	HSS12x12x5/8	1" x 20" x 1' - 8"
C6	HSS12.75x0.500	1" x 20" x 1' - 8"
C7	HSS20x12x1/2	1 1/2" x 20" x 2' - 4"
C8	HSS8x4x3/8	1" x 16" x 1' - 0"
C9	HSS16x0.500	1 1/2" x 24" x 2' - 0"
C10	HSS12x6x1/2	1 1/2" x 20" x 1' - 2"
C11	HSS10x0.500	1" x 18" x 1' - 6"
C12	HSS6x6x3/8	1" x 14" x 1' - 2"

BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME . SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0-2 FOR ADDITIONAL INFORMATION PROVIDE 4 - 1" DIA F1554-55S1 ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0-3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACING.

FOOTING SCHEDULE <u>F SERIES</u>			
MARK	SIZE	REINFORCEMENT	
F4	4' - 0" x 4' - 0" x 2' - 0"	6 - #5 BOT EA WAY	
F5	5' - 0" x 5' - 0" x 2' - 0"	7 - #5 BOT EA WAY	
F6	6' - 0" x 6' - 0" x 2' - 6"	8 - #6 BOT EA WAY	
F7	7' - 0" x 7' - 0" x 2' - 6"	9 - #6 BOT EA WAY	
F8	8' - 0" x 8' - 0" x 3' - 0"	10 - #8 BOT EA WAY	
F9	9' - 0" x 9' - 0" x 3' - 0"	11 - #9 BOT EA WAY	
F10	10' - 0" x 10' - 0" x 3' - 6"	12 - #9 BOT EA WAY	
F11	11' - 0" x 11' - 0" x 3' - 6"	13 - #10 BOT EA WAY	
F12	12' - 0" x 12' - 0" x 4' - 0"	14 - #10 BOT EA WAY	
FA	SEE PLAN x 2' - 0"	#8 @ 12"OC TOP AND BOT EA WAY	

T INDICATES TOP REINFORCING TO MA
BOTTOM REINFORCING

	FOOTING SCHEDULE G SERIES				
MARK	SIZE	REINFORCEMENT			
G4	4' - 0" x 4' - 0" x 2' - 0"	5 - #5 BOT EA WAY			
G5	5' - 0" x 5' - 0" x 2' - 0"	6 - #5 BOT EA WAY			
G6	6' - 0" x 6' - 0" x 2' - 0"	7 - #6 BOT EA WAY			
G7	7' - 0" x 7' - 0" x 2' - 0"	8 - #6 BOT EA WAY			
G8	8' - 0" x 8' - 0" x 2' - 0"	9 - #6 BOT EA WAY			
G9	9' - 0" x 9' - 0" x 2' - 6"	10 - #7 BOT EA WAY			
G10	10' - 0" x 10' - 0" x 2' - 6"	11 - #7 BOT EA WAY			
G11	11' - 0" x 11' - 0" x 2' - 6"	12 - #8 BOT EA WAY			
G12	12' - 0" x 12' - 0" x 3' - 0"	13 - #8 BOT EA WAY			
G13	13' - 0" x 13' - 0" x 3' - 0"	14 - #9 BOT EA WAY			
G14	14' - 0" x 14' - 0" x 3' - 0"	15 - #9 BOT EA WAY			
G15	15' - 0" x 15' - 0" x 3' - 0"	16 - #9 BOT EA WAY			
GA	SEE PLAN x 2' - 0"	#8 @ 12"OC TOP AND BOT EA WAY			

T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING



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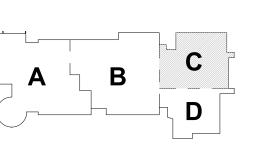
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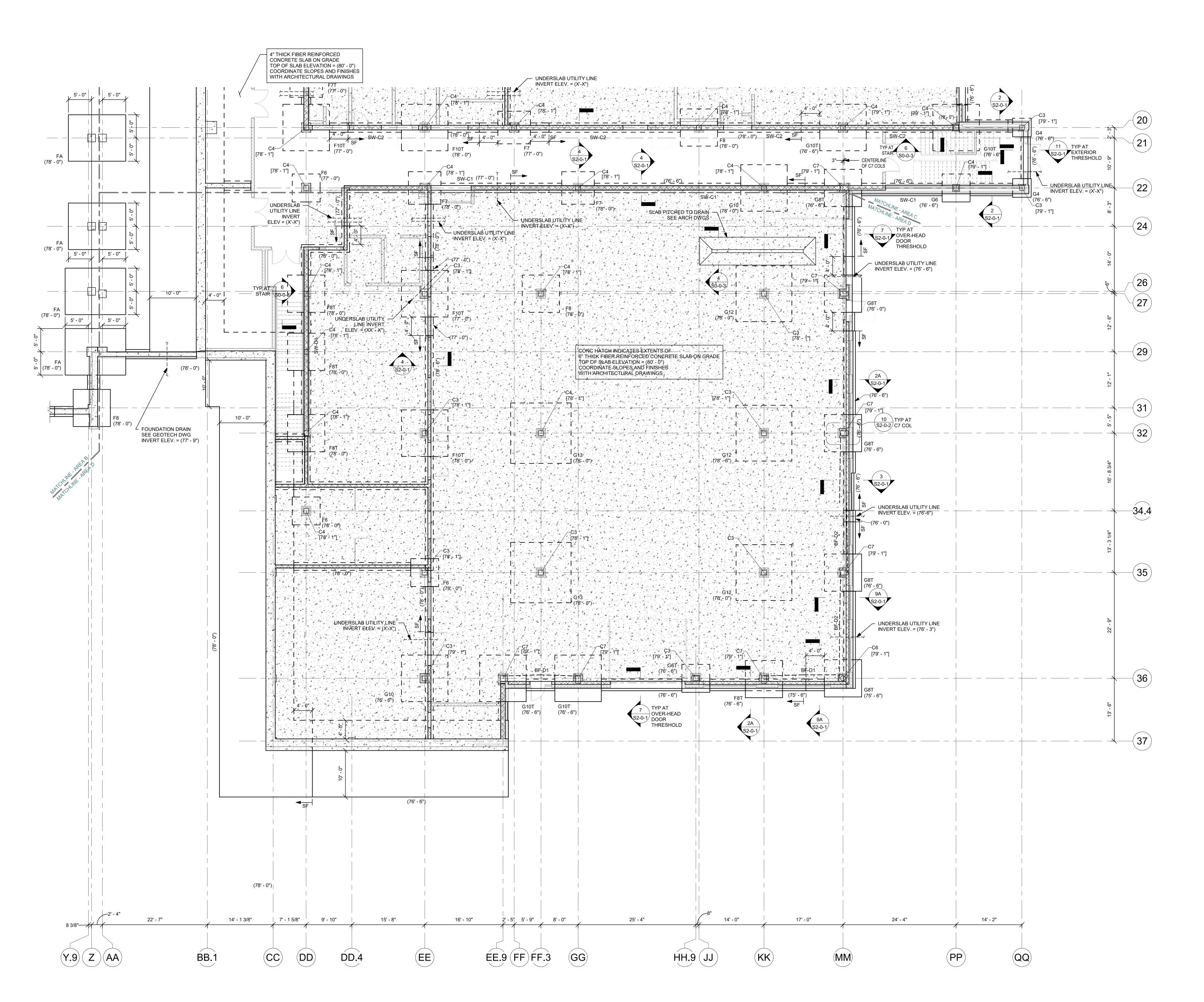
MAGNETIC NORTH

PROJECT NORTH

LOWER LEVEL FOUNDATION

PLAN - AREA C

Scale: 1/8" = 1'-0"



BRACE FRAME KEY = WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL WF INDICATES A BRACE FRAME ABOVE LEVEL

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING

BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN.

EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE

RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING

BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND

ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

WF INDICATES A BRACE FRAME BELOW LEVEL

FOUNDATION NOTES:

- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS THE STRUCTURAL DRAWINGS USES A DATUM OF (100' - 0") AT THE FIRST FLOOR LEVEL, EQUAL TO (163.50') ON THE SITE GRADING PLANS.
- 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 3.) F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- 4.) TOP OF FOOTING ELEVATION TO BE 3' 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' - 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (x' - x") COMPUTED FROM A DATUM ELEVATION OF 100' - 0" ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 6.) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- 7.) SF INDICATES A STEPPED FOOTING REFER TO
- → DETAIL1 ON DRAWING S0-0-2.
- 9.) BOTTOM OF BASE PLATE ELEVATION TO BE 1' 11" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0' - 11"

BASE PLATES SEE SCHEDULE ON THIS DRAWING.

BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS [XX' - XX"] REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.

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WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS. 11.) "" INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.

10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE

- 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 13.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 14.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS
- FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE. 15.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 16.) T INDICATES CONCRETE PIER REFER TO TYPICAL DETAIL
- 17.)

 → — → INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.
- 18.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
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	COLUMN SCHEDULE *			
MARK	SIZE	BASE PLATE SIZE		
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C4	HSS12x12x1/2	1" x 20" x 1' - 8"		
C5	HSS12x12x5/8	1" x 20" x 1' - 8"		
C6	HSS12.75x0.500	1" x 20" x 1' - 8"		
C7	HSS20x12x1/2	1 1/2" x 20" x 2' - 4"		
C8	HSS8x4x3/8	1" x 16" x 1' - 0"		
C9	HSS16x0.500	1 1/2" x 24" x 2' - 0"		
C10	HSS12x6x1/2	1 1/2" x 20" x 1' - 2"		
C11	HSS10x0.500	1" x 18" x 1' - 6"		
C12	HSS6x6x3/8	1" x 14" x 1' - 2"		

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FOOTING SCHEDULE <u>F SERIES</u>				
MARK	SIZE	REINFORCEMENT		
F4	4' - 0" x 4' - 0" x 2' - 0"	6 - #5 BOT EA WAY		
F5	5' - 0" x 5' - 0" x 2' - 0"	7 - #5 BOT EA WAY		
F6	6' - 0" x 6' - 0" x 2' - 6"	8 - #6 BOT EA WAY		
F7	7' - 0" x 7' - 0" x 2' - 6"	9 - #6 BOT EA WAY		
F8	8' - 0" x 8' - 0" x 3' - 0"	10 - #8 BOT EA WAY		
F9	9' - 0" x 9' - 0" x 3' - 0"	11 - #9 BOT EA WAY		
F10	10' - 0" x 10' - 0" x 3' - 6"	12 - #9 BOT EA WAY		
F11	11' - 0" x 11' - 0" x 3' - 6"	13 - #10 BOT EA WAY		
F12	12' - 0" x 12' - 0" x 4' - 0"	14 - #10 BOT EA WAY		
FA	SEE PLAN x 2' - 0"	#8 @ 12"OC TOP AND BOT EA WAY		
T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING				

FOOTING SCHEDULE G SERIES				
MARK	SIZE	REINFORCEMENT		
G4	4' - 0" x 4' - 0" x 2' - 0"	5 - #5 BOT EA WAY		
G5	5' - 0" x 5' - 0" x 2' - 0"	6 - #5 BOT EA WAY		
G6	6' - 0" x 6' - 0" x 2' - 0"	7 - #6 BOT EA WAY		
G7	7' - 0" x 7' - 0" x 2' - 0"	8 - #6 BOT EA WAY		
G8	8' - 0" x 8' - 0" x 2' - 0"	9 - #6 BOT EA WAY		
G9	9' - 0" x 9' - 0" x 2' - 6"	10 - #7 BOT EA WAY		
G10	10' - 0" x 10' - 0" x 2' - 6"	11 - #7 BOT EA WAY		
G11	11' - 0" x 11' - 0" x 2' - 6"	12 - #8 BOT EA WAY		
G12	12' - 0" x 12' - 0" x 3' - 0"	13 - #8 BOT EA WAY		
G13	13' - 0" x 13' - 0" x 3' - 0"	14 - #9 BOT EA WAY		
G14	14' - 0" x 14' - 0" x 3' - 0"	15 - #9 BOT EA WAY		
G15	15' - 0" x 15' - 0" x 3' - 0"	16 - #9 BOT EA WAY		
GA	SEE PLAN x 2' - 0"	#8 @ 12"OC TOP AND BOT EA WAY		
T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING				



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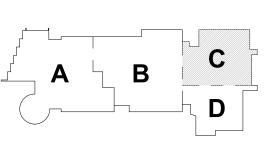
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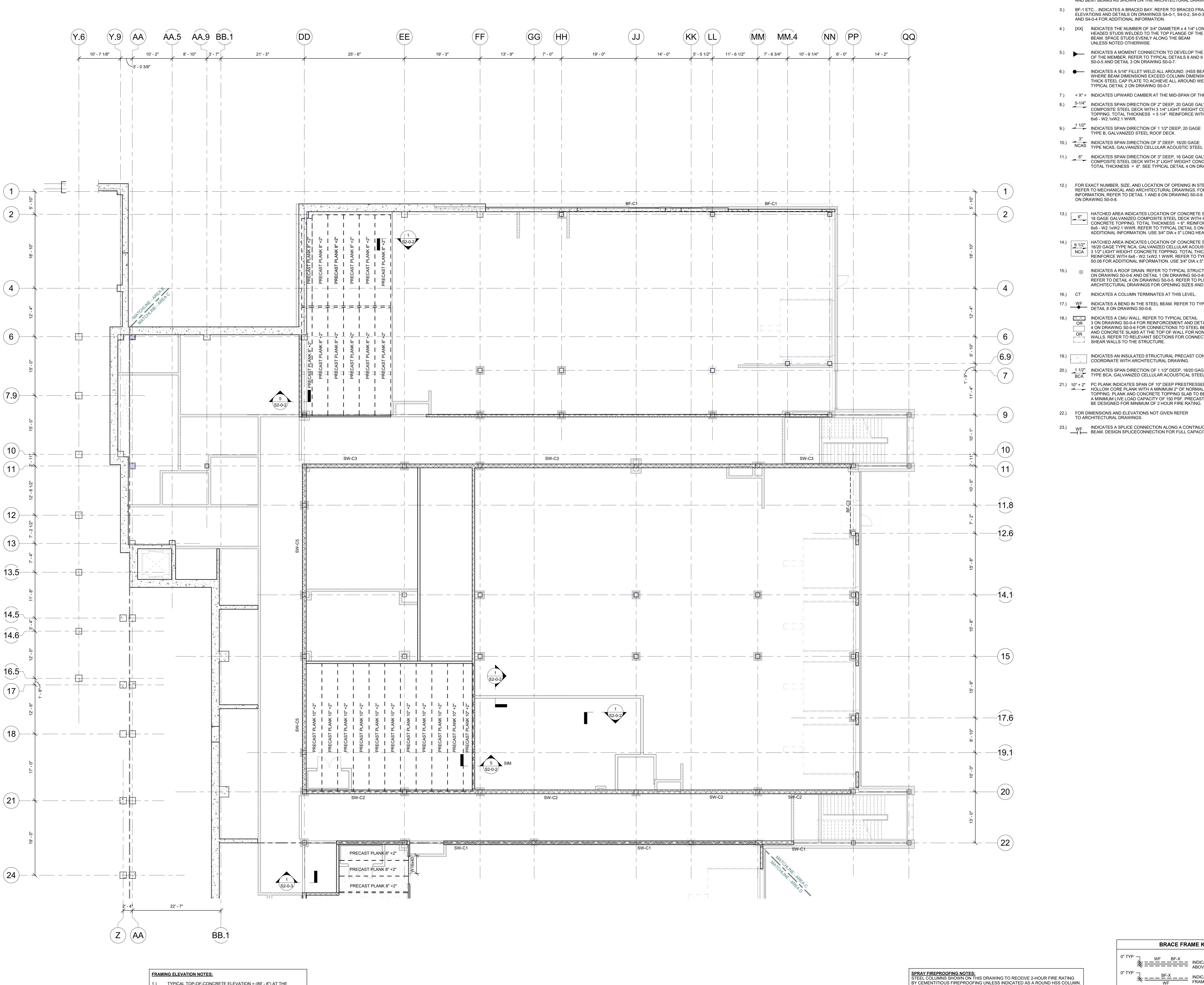
KEY PLAN

MAGNETIC NORTH PROJECT NORTH

LOWER LEVEL **FOUNDATION** PLAN - AREA D

Scale: 1/8" = 1'-0" Drawn By: EDG

S1-1-0D



TYPICAL TOP-OF-CONCRETE ELEVATION = (89' - 8") AT THE

COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED

BY GRIDS (DD) - (HH) AND (2) - (16.2).

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS

AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME
- ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING

S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.

TYPICAL DETAIL 2 ON DRAWING S0-0-7.

- 6.) •— INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER. 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED
- COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1xW2.1 WWR.
- TYPE B, GALVANIZED STEEL ROOF DECK. 10.) INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE
 TYPE NOAS GALVANIZED CELLULAD ACQUESTIC STEEL
- TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 6" 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 14.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT. REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- 18.) OR INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DE 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE
 TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

BRACE FRAME KEY WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

WF INDICATES A BRACE FRAME BELOW LEVEL

EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE

PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND

RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW

ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

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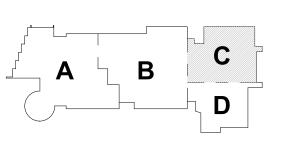
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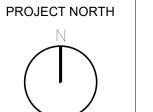
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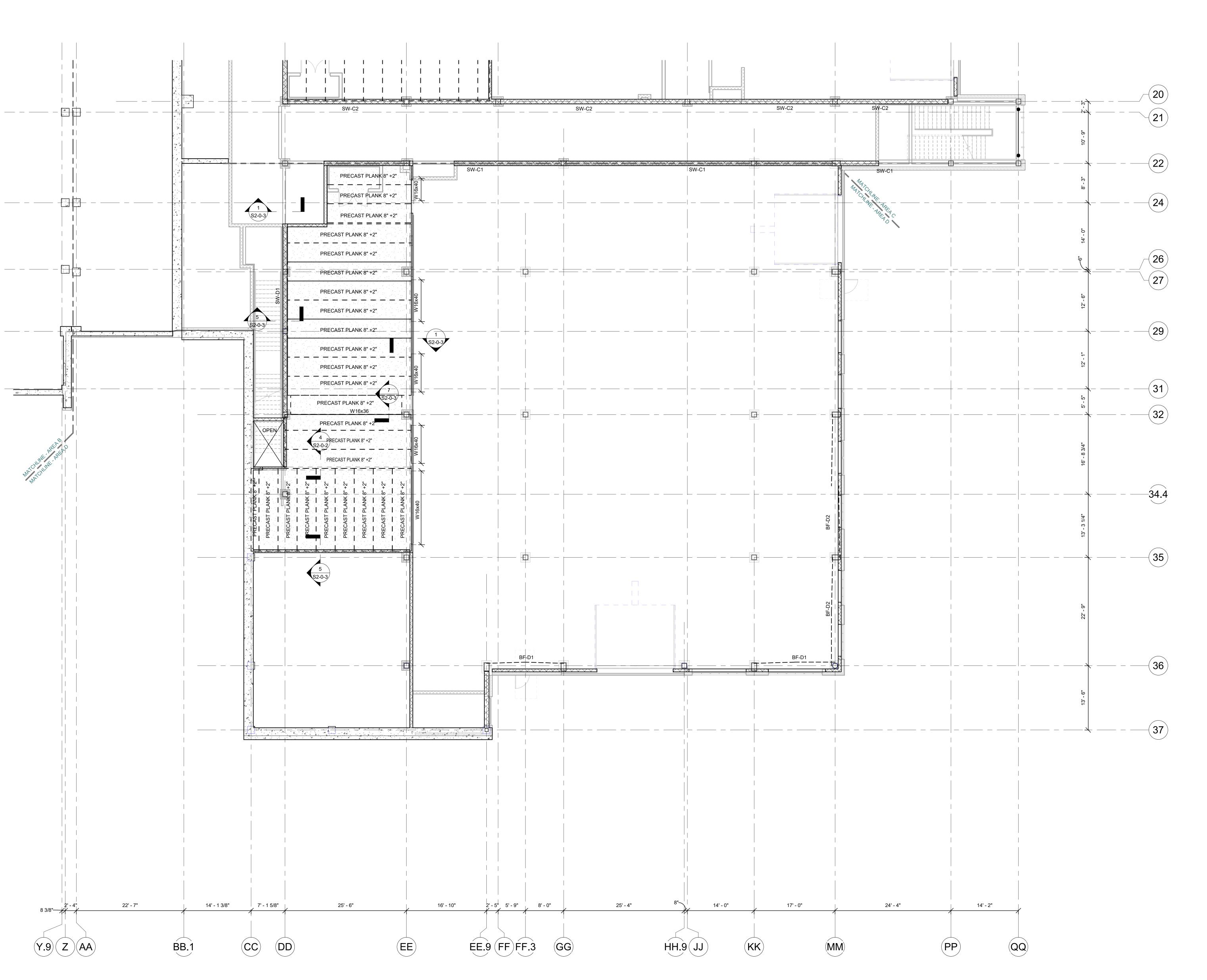


KEY PLAN MAGNETIC NORTH



MEZZANINE **FLOOR FRAMING** PLAN - AREA C

Scale: 1/8" = 1'-0" Drawn By:



FRAMING ELEVATION NOTES:

TYPICAL TOP-OF-CONCRETE ELEVATION = (89' - 8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED

COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

BY GRIDS (CC) - (EE) AND (17) - (23).

FRAMING NOTES:

1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.

AND S4-0-4 FOR ADDITIONAL INFORMATION.

- 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.

S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.

- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING
- 6.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN)
 WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2"
 THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO
 TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.

 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED
- 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 W2.1xW2.1 WWR.
- 9.) INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 15.) \(\text{SINDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8} \)
 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT,
 REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND
 ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.

16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.

- 19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE
 TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

 $\sqcup - \sqcup$ SHEAR WALLS TO THE STRUCTURE.

23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

BRACE FRAME KEY

P WF INDICATES A BRACE FRAME BELOW LEVEL

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.

MSBA 60% CD Submission

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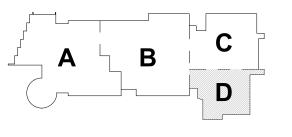
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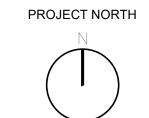
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KEY PLAN

MAGNETIC NORTH



ZANINE

MEZZANINE FLOOR FRAMING PLAN - AREA D

Scale: 1/8" = 1'-0"

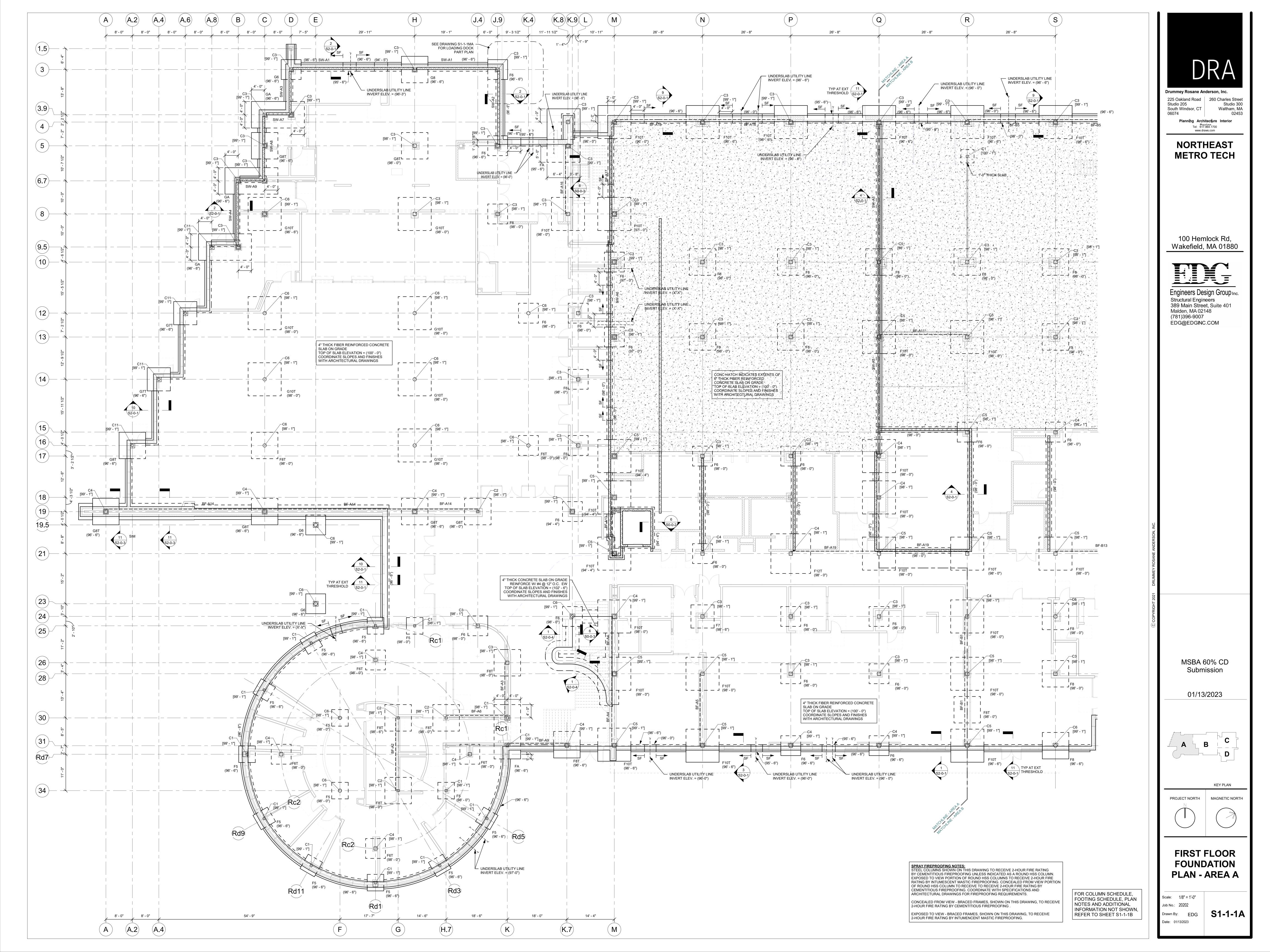
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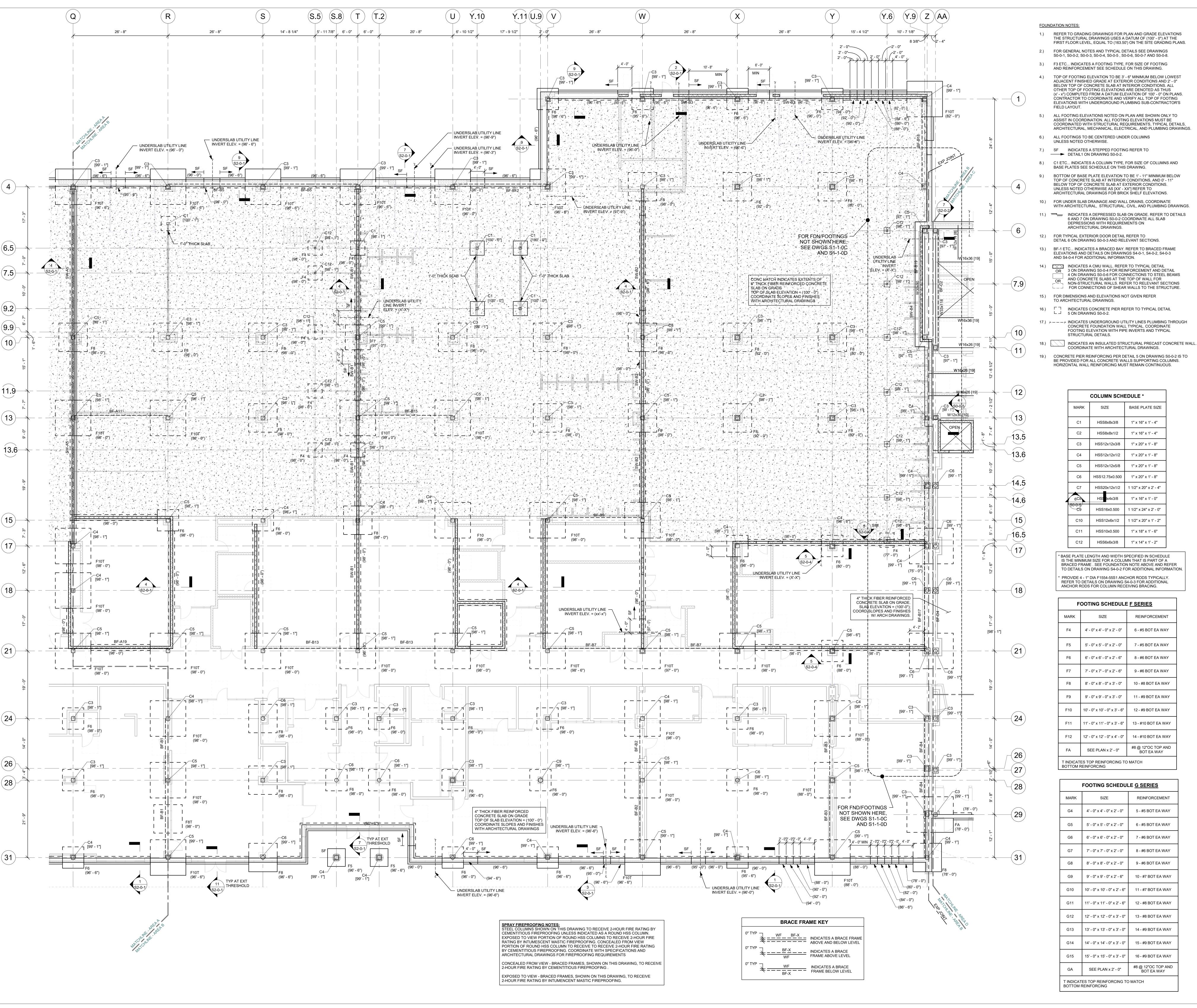
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Date: 01/13/2023

S1-1-0MD

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING
BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN.
EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE
RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW
PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING
BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND
ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.





- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS THE STRUCTURAL DRAWINGS USES A DATUM OF (100' - 0") AT THE FIRST FLOOR LEVEL, EQUAL TO (163.50') ON THE SITE GRADING PLANS.
- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS
- 3.) F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING
- TOP OF FOOTING ELEVATION TO BE 3' 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' - 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (x' - x") COMPUTED FROM A DATUM ELEVATION OF 100' - 0" ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S
- ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS,
- ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- → DETAIL1 ON DRAWING S0-0-2.
- 8.) C1 ETC... INDICATES A COLUMN TYPE, FOR SIZE OF COLUMNS AND
- TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0' 11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS [XX' - XX"] REFER TO
- 10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- 11.) """ INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON
- 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 13.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3
- AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS □□□ FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- 15.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL

COLUMN SCHEDULE *				
MARK	SIZE	BASE PLATE SIZE		
C1	HSS8x8x3/8	1" x 16" x 1' - 4"		
C2	HSS8x8x1/2	1" x 16" x 1' - 4"		
C3	HSS12x12x3/8	1" x 20" x 1' - 8"		
C4	HSS12x12x1/2	1" x 20" x 1' - 8"		
C5	HSS12x12x5/8	1" x 20" x 1' - 8"		
C6	HSS12.75x0.500	1" x 20" x 1' - 8"		
C7	HSS20x12x1/2	1 1/2" x 20" x 2' - 4"		
6C8	HS\$3x4x3/8	1" x 16" x 1' - 0"		
\$0-0-5/ C 9	HSS16x0.500	1 1/2" x 24" x 2' - 0"		
C10	HSS12x6x1/2	1 1/2" x 20" x 1' - 2"		
C11	HSS10x0.500	1" x 18" x 1' - 6"		
C12	HSS6x6x3/8	1" x 14" x 1' - 2"		

FOOTING SCHEDULE <u>F SERIES</u>			
SIZE	REINFORCEMENT		
4' - 0" x 4' - 0" x 2' - 0"	6 - #5 BOT EA WAY		
5' - 0" x 5' - 0" x 2' - 0"	7 - #5 BOT EA WAY		
6' - 0" x 6' - 0" x 2' - 6"	8 - #6 BOT EA WAY		
7' - 0" x 7' - 0" x 2' - 6"	9 - #6 BOT EA WAY		
8' - 0" x 8' - 0" x 3' - 0"	10 - #8 BOT EA WAY		
9' - 0" x 9' - 0" x 3' - 0"	11 - #9 BOT EA WAY		
10' - 0" x 10' - 0" x 3' - 6"	12 - #9 BOT EA WAY		
11' - 0" x 11' - 0" x 3' - 6"	13 - #10 BOT EA WAY		
12' - 0" x 12' - 0" x 4' - 0"	14 - #10 BOT EA WAY		
SEE PLAN x 2' - 0"	#8 @ 12"OC TOP AND BOT EA WAY		
	SIZE 4' - 0" x 4' - 0" x 2' - 0" 5' - 0" x 5' - 0" x 2' - 0" 6' - 0" x 6' - 0" x 2' - 6" 7' - 0" x 7' - 0" x 2' - 6" 8' - 0" x 8' - 0" x 3' - 0" 9' - 0" x 9' - 0" x 3' - 0" 10' - 0" x 10' - 0" x 3' - 6" 11' - 0" x 11' - 0" x 3' - 6"		

FOOTING SCHEDULE G SERIES				
MARK	SIZE	REINFORCEMENT		
G4	4' - 0" x 4' - 0" x 2' - 0"	5 - #5 BOT EA WAY		
G5	5' - 0" x 5' - 0" x 2' - 0"	6 - #5 BOT EA WAY		
G6	6' - 0" x 6' - 0" x 2' - 0"	7 - #6 BOT EA WAY		
G7	7' - 0" x 7' - 0" x 2' - 0"	8 - #6 BOT EA WAY		
G8	8' - 0" x 8' - 0" x 2' - 0"	9 - #6 BOT EA WAY		
G9	9' - 0" x 9' - 0" x 2' - 6"	10 - #7 BOT EA WAY		
G10	10' - 0" x 10' - 0" x 2' - 6"	11 - #7 BOT EA WAY		
G11	11' - 0" x 11' - 0" x 2' - 6"	12 - #8 BOT EA WAY		
G12	12' - 0" x 12' - 0" x 3' - 0"	13 - #8 BOT EA WAY		
G13	13' - 0" x 13' - 0" x 3' - 0"	14 - #9 BOT EA WAY		
G14	14' - 0" x 14' - 0" x 3' - 0"	15 - #9 BOT EA WAY		
G15	15' - 0" x 15' - 0" x 3' - 0"	16 - #9 BOT EA WAY		
GA	SEE PLAN x 2' - 0"	#8 @ 12"OC TOP AND BOT EA WAY		
T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING				



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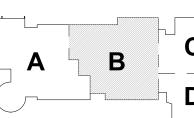
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> MSBA 60% CD Submission

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KEY PLAN

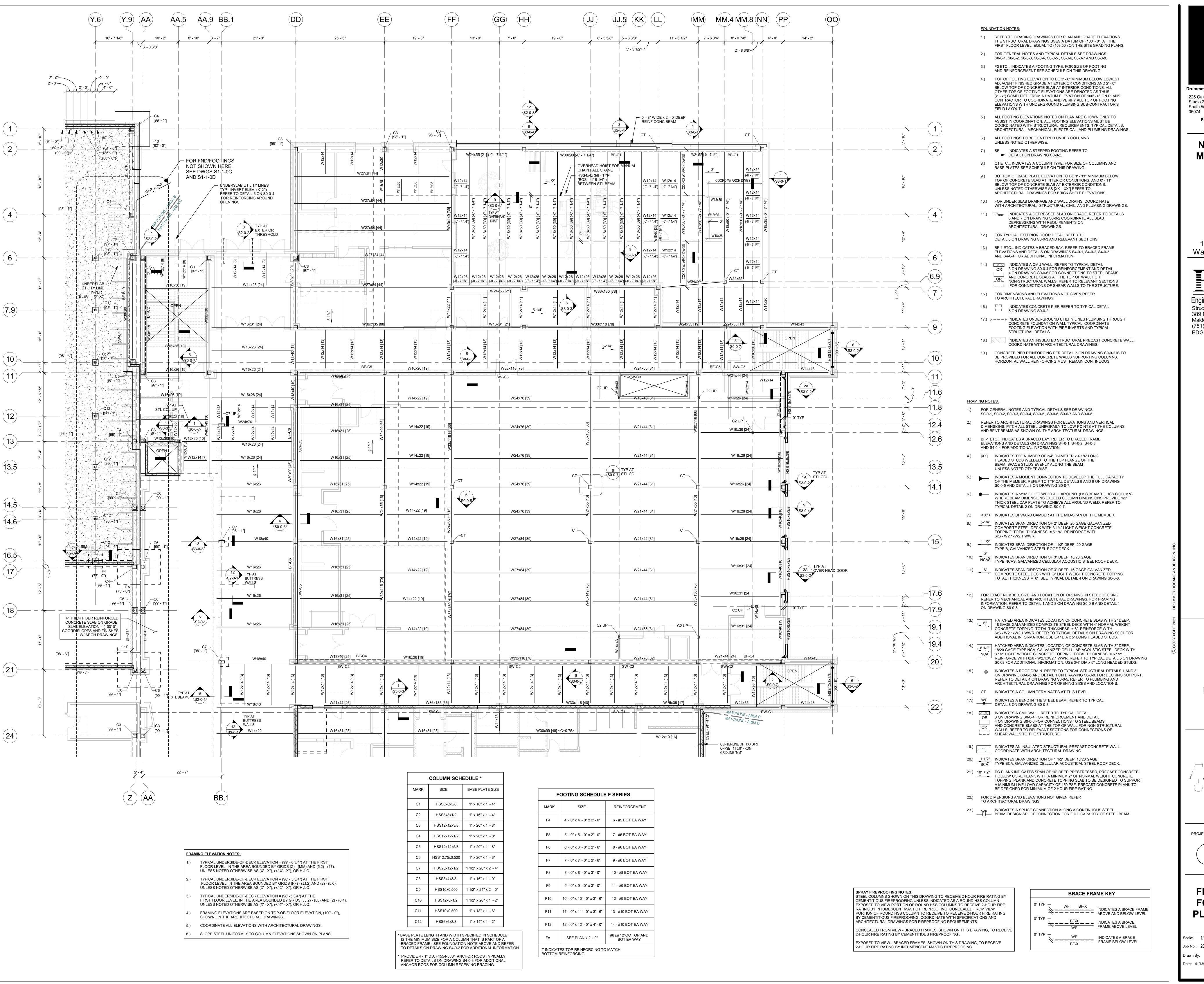
MAGNETIC NORTH PROJECT NORTH

FIRST FLOOR

FOUNDATION PLAN - AREA B

Scale: 1/8" = 1'-0" Drawn By: Date: 01/13/2023

S1-1-1B



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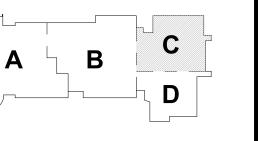
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MSBA 60% CD Submission

01/13/2023

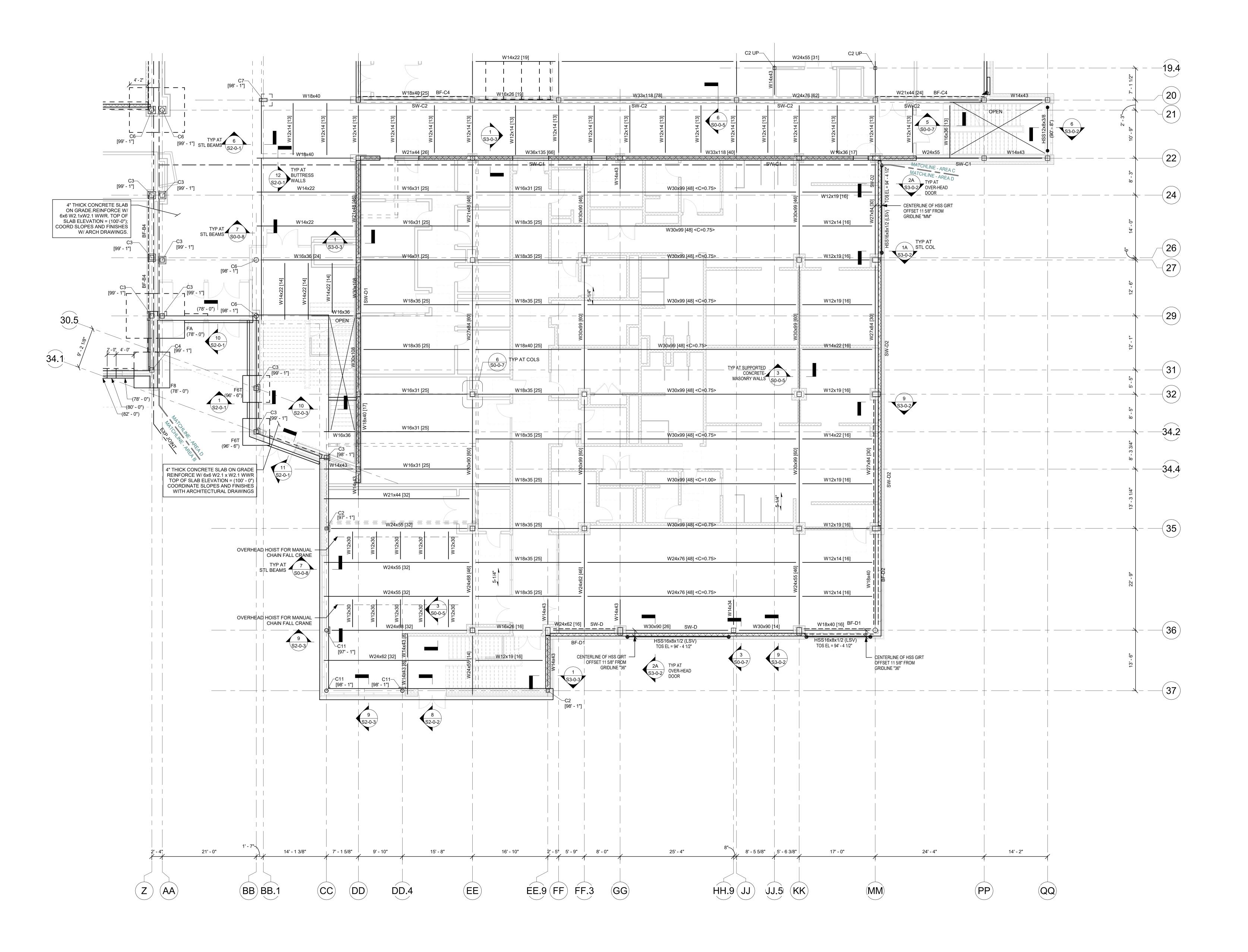


KEY PLAN

PROJECT NORTH MAGNETIC NORTH

FIRST FLOOR **FOUNDATION** PLAN - AREA C

Scale: 1/8" = 1'-0"



FRAMING ELEVATION NOTES:

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (99' - 6 3/4") AT THE

COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.

SHOWN ON THE ARCHITECTURAL DRAWINGS.

FIRST FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (BB) - (MM) AND (16) - (25).

FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (100' - 0"),

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3

AND S4-0-4 FOR ADDITIONAL INFORMATION.

- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- 6.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER. 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH
- 6x6 W2.1xW2.1 WWR. 9.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
- 13.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 14.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL. 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL
- DETAIL 8 ON DRAWING S0-0-8. 18.) XX INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
- 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF └── SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE

 TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL RO TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

COLUMN SCHEDULE *			
MARK	SIZE	BASE PLATE SIZE	
C1	HSS8x8x3/8	1" x 16" x 1' - 4"	
C2	HSS8x8x1/2	1" x 16" x 1' - 4"	
C3	HSS12x12x3/8	1" x 20" x 1' - 8"	
C4	HSS12x12x1/2	1" x 20" x 1' - 8"	
C5	HSS12x12x5/8	1" x 20" x 1' - 8"	
C6	HSS12.75x0.500	1" x 20" x 1' - 8"	
C7	HSS20x12x1/2	1 1/2" x 20" x 2' - 4"	
C8	HSS8x4x3/8	1" x 16" x 1' - 0"	
C9	HSS16x0.500	1 1/2" x 24" x 2' - 0"	
C10	HSS12x6x1/2	1 1/2" x 20" x 1' - 2"	
C11	HSS10x0.500	1" x 18" x 1' - 6"	
C12	HSS6x6x3/8	1" x 14" x 1' - 2"	

* BASE PLATE LENGTH AND WIDTH SPECIFIED IN SCHEDULE IS THE MINIMUM SIZE FOR A COLUMN THAT IS PART OF A BRACED FRAME . SEE FOUNDATION NOTE ABOVE AND REFER TO DETAILS ON DRAWING S4-0-2 FOR ADDITIONAL INFORMATION PROVIDE 4 - 1" DIA F1554-55S1 ANCHOR RODS TYPICALLY. REFER TO DETAILS ON DRAWING S4-0-3 FOR ADDITIONAL ANCHOR RODS FOR COLUMN RECEIVING BRACING.

FOOTING SCHEDULE <u>F SERIES</u>			
MARK	SIZE	REINFORCEMEN	
F4	4' - 0" x 4' - 0" x 2' - 0"	6 - #5 BOT EA W <i>A</i>	
F5	5' - 0" x 5' - 0" x 2' - 0"	7 - #5 BOT EA W <i>A</i>	
F6	6' - 0" x 6' - 0" x 2' - 6"	8 - #6 BOT EA W <i>A</i>	
F7	7' - 0" x 7' - 0" x 2' - 6"	9 - #6 BOT EA W <i>F</i>	
F8	8' - 0" x 8' - 0" x 3' - 0"	10 - #8 BOT EA W.	
F9	9' - 0" x 9' - 0" x 3' - 0"	11 - #9 BOT EA W.	
F10	10' - 0" x 10' - 0" x 3' - 6"	12 - #9 BOT EA W	
F11	11' - 0" x 11' - 0" x 3' - 6"	13 - #10 BOT EA W	
F12	12' - 0" x 12' - 0" x 4' - 0"	14 - #10 BOT EA W	
FA	SEE PLAN x 2' - 0"	#8 @ 12"OC TOP A BOT EA WAY	
	ES TOP REINFORCING TO REINFORCING) MATCH	

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS Concealed from View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

Exposed to View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE

2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.

BRACE FRAME KEY			
0" TYPWFBF-X	INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL		
0" TYP	INDICATES A BRACE FRAME ABOVE LEVEL		
0" TYP = WF = BF-X	INDICATES A BRACE FRAME BELOW LEVEL		



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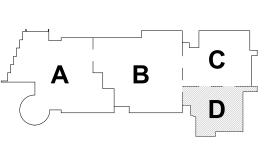
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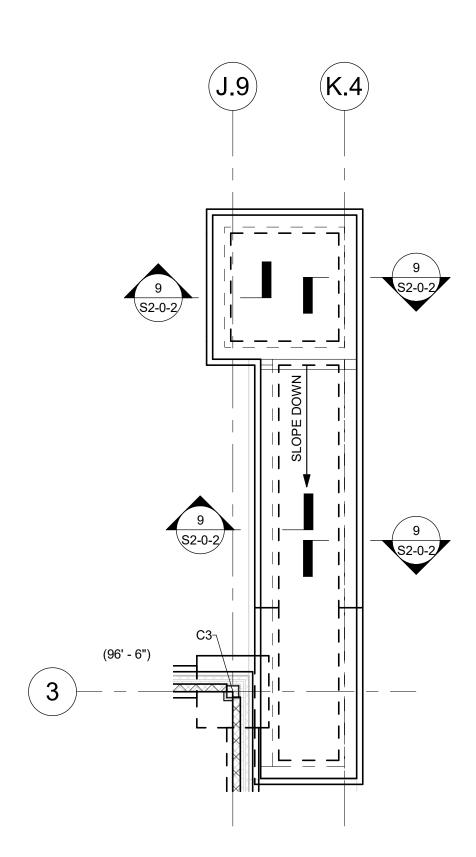
MAGNETIC NORTH



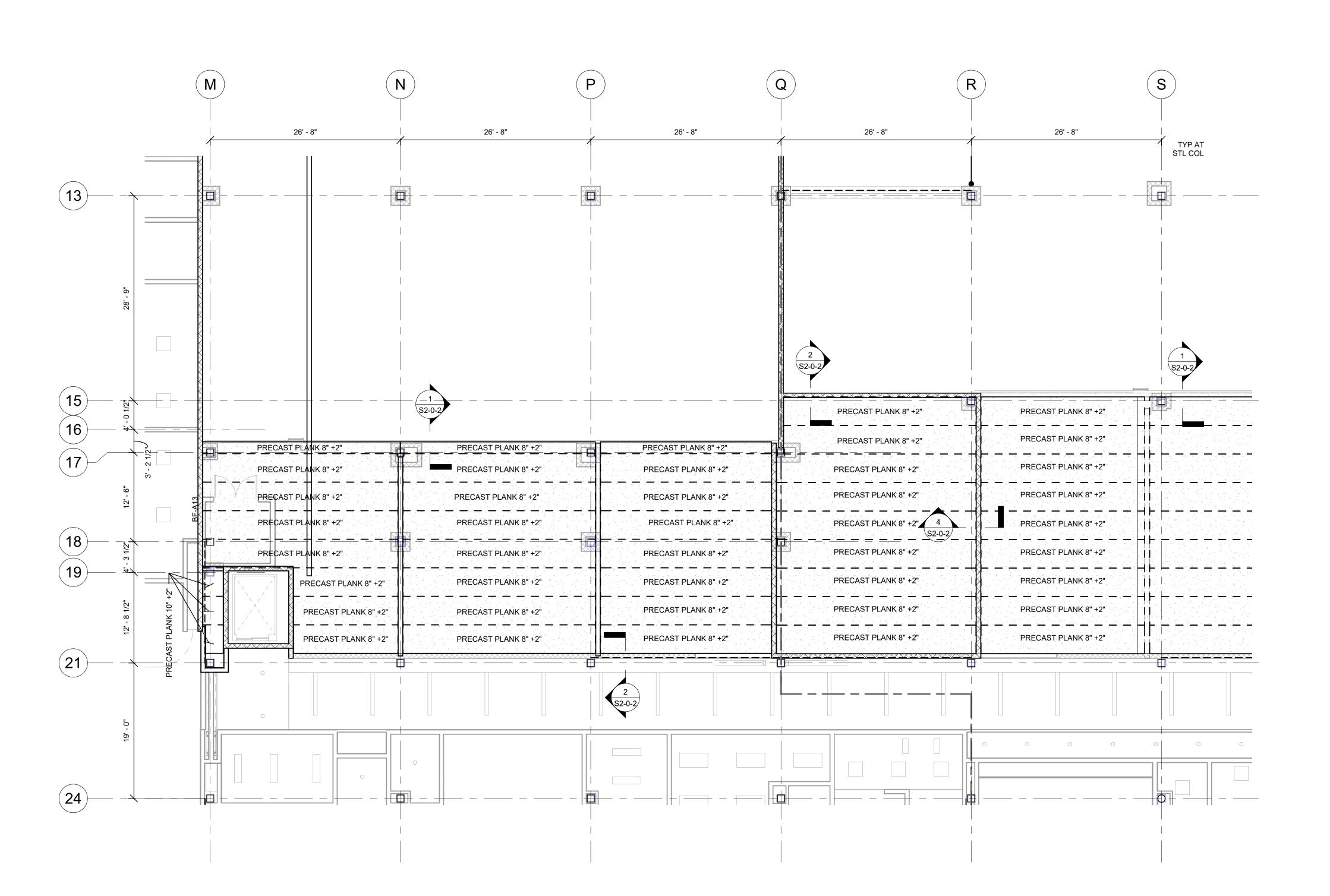
FIRST FLOOR **FOUNDATION** PLAN - AREA D

Scale: 1/8" = 1'-0" Job No.: 20202 Drawn By: EDG Date: 01/13/2023

S1-1-1D



LOADING DOCK PART PLAN



FRAMING ELEVATION NOTES: TYPICAL TOP-OF-CONCRETE ELEVATION = (109' - 8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (M) - (S) AND (11) - (16). COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING

S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.

- 6.) •— INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER. 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1xW2.1 WWR.
- 9.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
- 13.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 14.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 15.) 😡 INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- 18.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF $\sqcup - \sqcup$ SHEAR WALLS TO THE STRUCTURE.
- INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 23.) WE INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.



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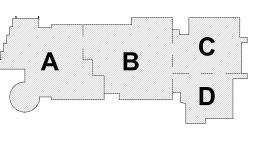
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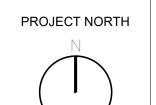
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01/13/2023



KEY PLAN

MAGNETIC NORTH





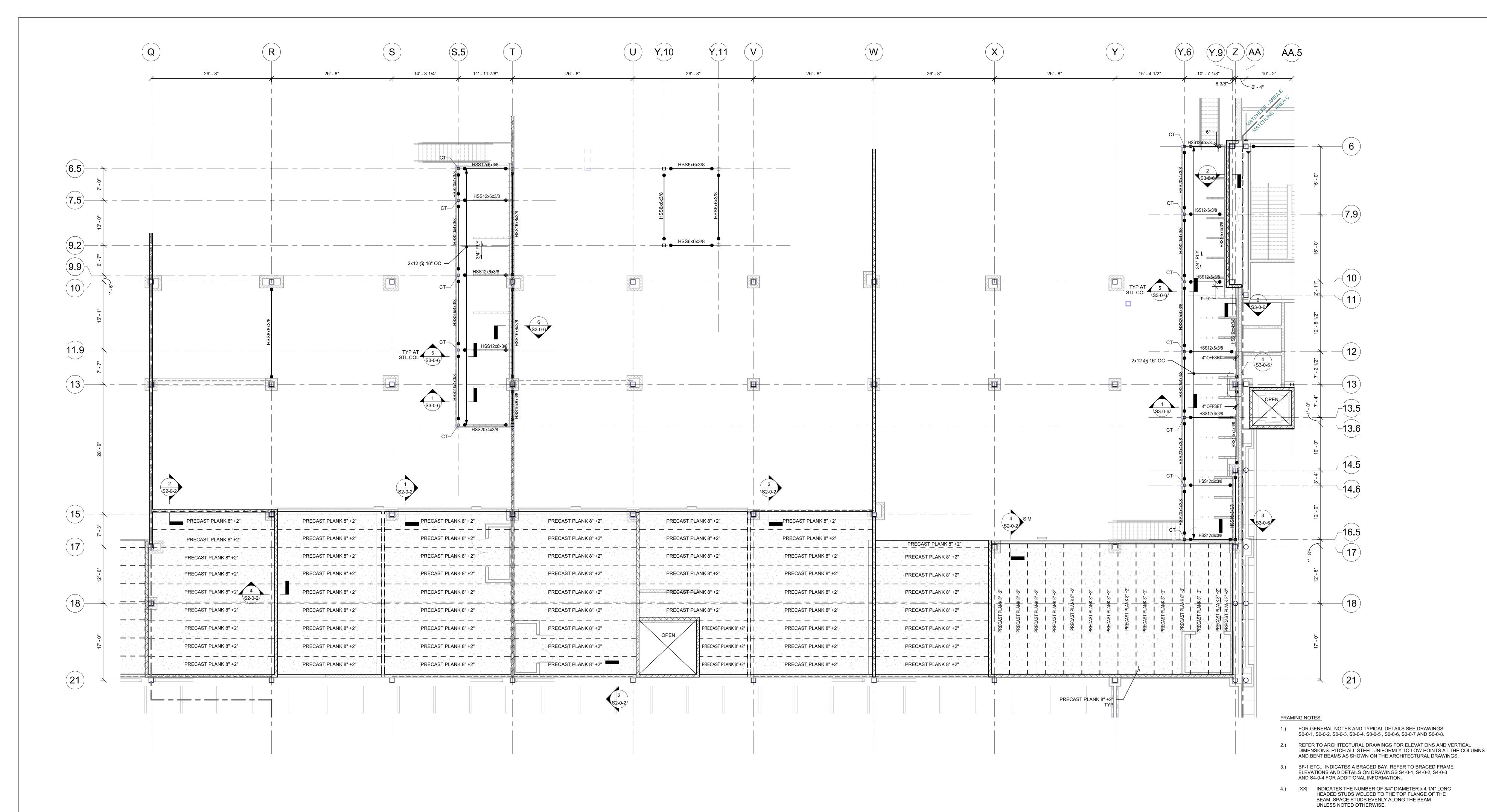
MEZZANINE **FLOOR FRAMING** - AREA A

Scale: 1/8" = 1'-0" Drawn By: EDG

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE

2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.



FRAMING ELEVATION NOTES: TYPICAL TOP-OF-CONCRETE ELEVATION = (109' - 8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (Q) - (Z) AND (11) - (16).

TYPICAL TOP-OF-STEEL ELEVATION = (108' - 8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED BY

GRIDS (EDG S.8) - (T) AND (5.2) - (EDG S.13).

TYPICAL TOP-OF-STEEL ELEVATION = (108' - 8") AT THE MEZZANINE FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (EDG Y.6) - (Z) AND (5.2) - (12).

COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

STEEL COLUMNS SHOWN ON THIS DRAWING TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE

2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.



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5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING

6.) •— INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN)

WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO

S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.

TYPICAL DETAIL 2 ON DRAWING S0-0-7.

9.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE

TYPE B, GALVANIZED STEEL ROOF DECK.

10.) INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE

6x6 - W2.1xW2.1 WWR.

ON DRAWING S0-0-8.

7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.

5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH

NCAS TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.

TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.

6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR

REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING

S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT,

ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

14.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2".

15.) \otimes INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8

16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.

18.) XX INDICATES A CMU WALL. REFER TO TYPICAL DETAIL

L - SHEAR WALLS TO THE STRUCTURE.

22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER

TO ARCHITECTURAL DRAWINGS.

17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.

3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL

OR WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF

19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL.

20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.

BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.

23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE

HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE

TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT

A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO

COORDINATE WITH ARCHITECTURAL DRAWING.

4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS

AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL

REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

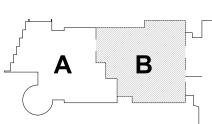
11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING.

12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING

REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1

13.)
HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP,
18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH

01/13/2023



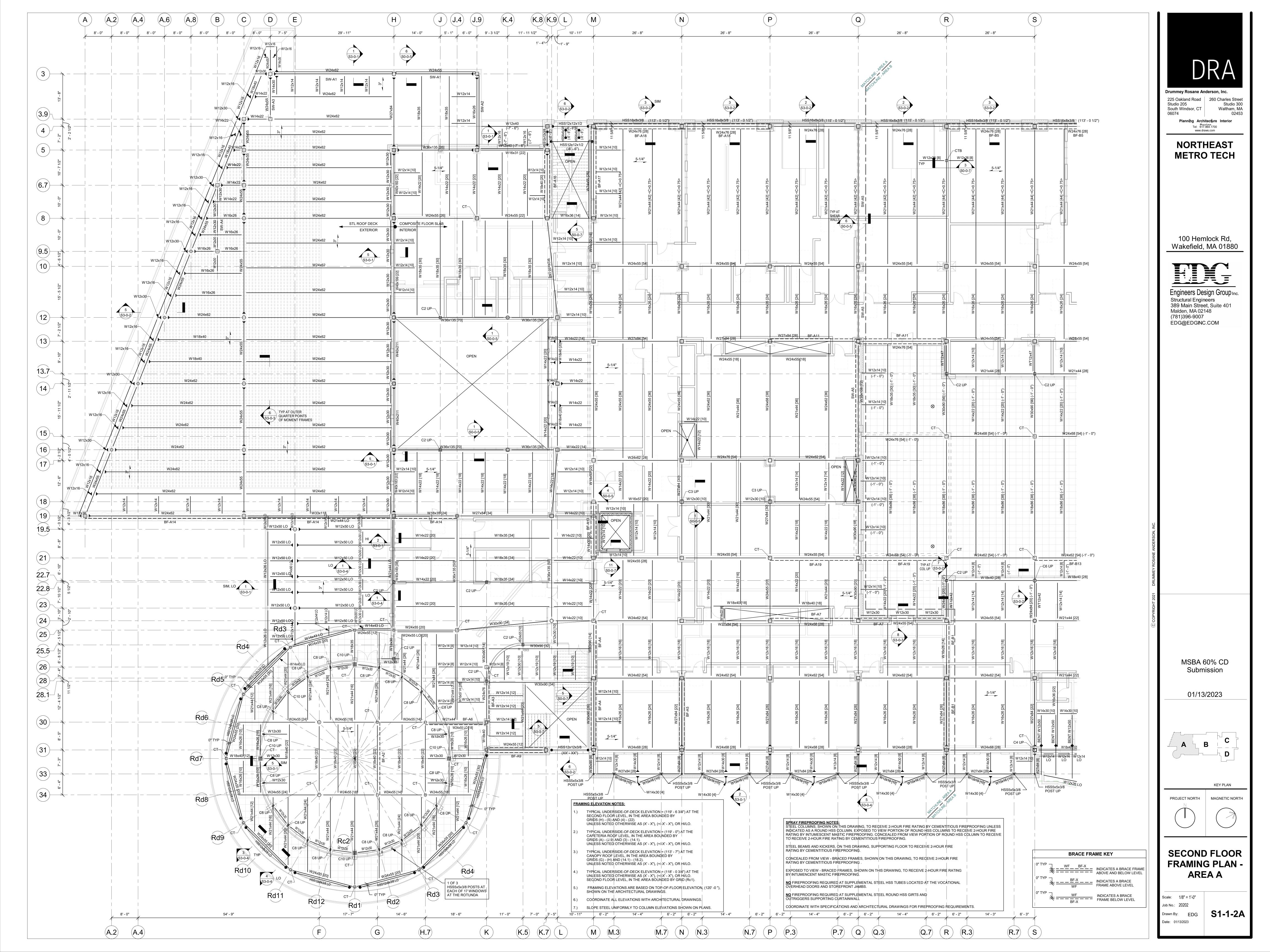
KEY PLAN MAGNETIC NORTH

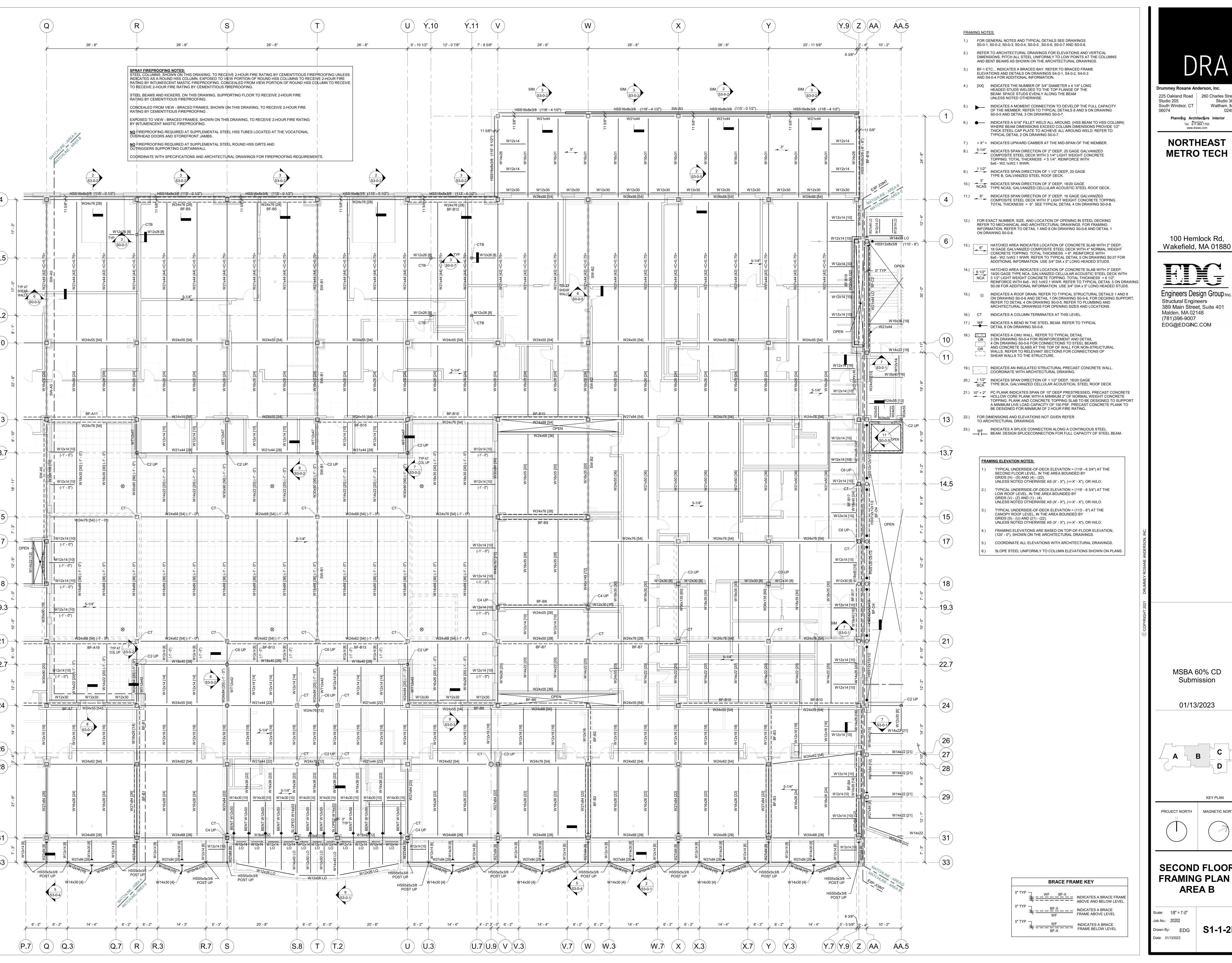


MEZZANNINE **FLOOR** FRAMING- AREA

Scale: 1/8" = 1'-0" Drawn By: EDG

Date: 01/13/2023





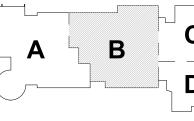


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389 Main Street, Suite 401

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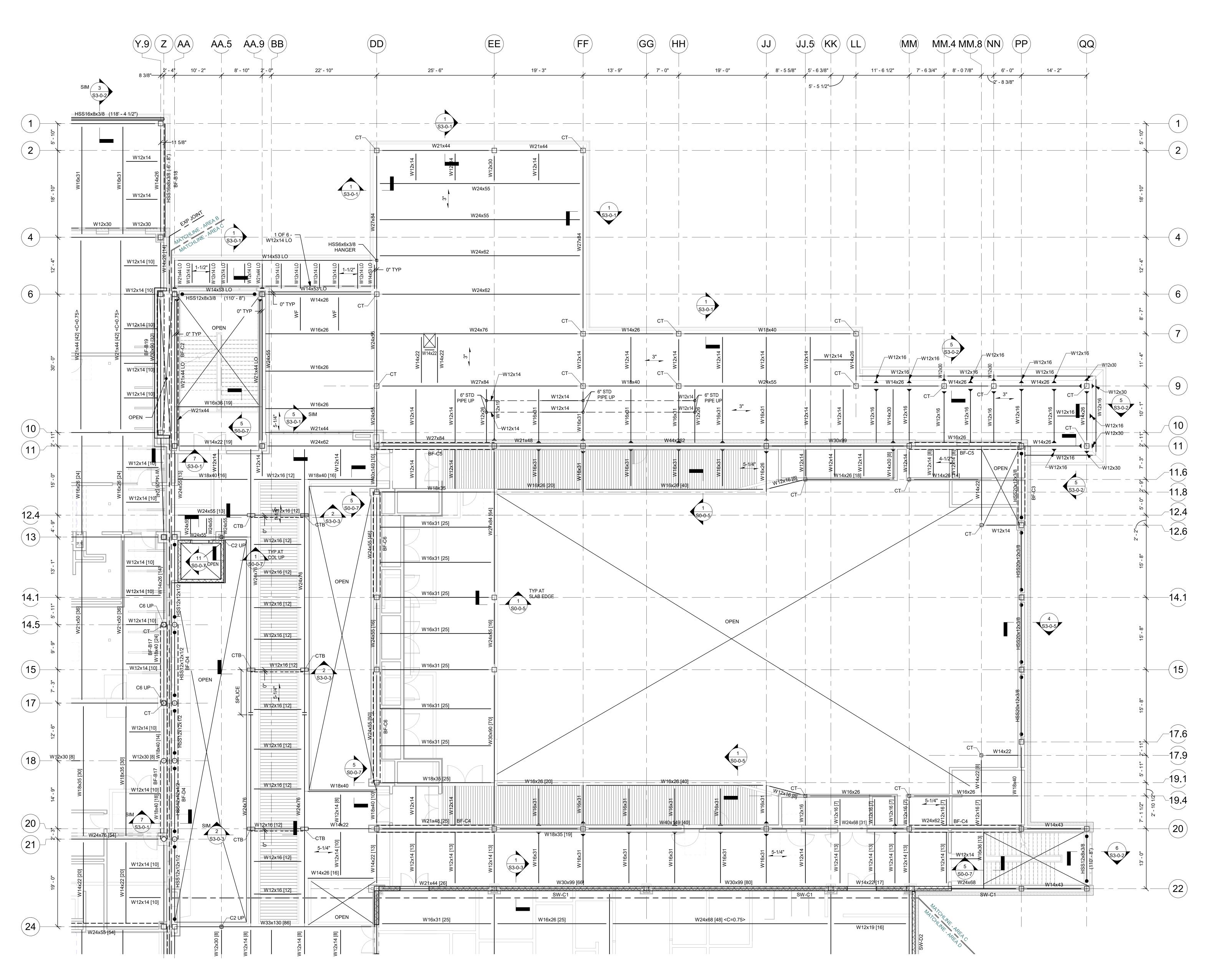


KEY PLAN

MAGNETIC NORTH

SECOND FLOOR FRAMING PLAN -**AREA B**

S1-1-2B



FRAMING NOTES:

1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.

AND S4-0-4 FOR ADDITIONAL INFORMATION.

- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- 6.) •— INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER. 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED
- COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1xW2.1 WWR.
- 9.) INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 10.) INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE NCAS TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1
- 13.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". ☐ REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- 18.) XX INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF SHEAR WALLS TO THE STRUCTURE.
- ☐ INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE BCA TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 23.) WE INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

FRAMING ELEVATION NOTES:

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' - 6 3/4") AT THE SECOND FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (MM) AND (7.2) - (17). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' 6 3/4") AT THE LOW ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA.9) - (NN) AND (2) - (7.2).
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (120' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.

UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.

COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS. SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

BRACE FRAME KEY

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

____BF-X ___ INDICATES A BRACE FRAME ABOVE LEVEL

WF INDICATES A BRACE FRAME BELOW LEVEL

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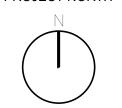
KEY PLAN

PROJECT NORTH MAGNETIC NORTH

MSBA 60% CD

Submission

01/13/2023



SECOND FLOOR FRAMING PLAN -AREA C

Scale: 1/8" = 1'-0" Drawn By:

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING

BY INTUMENCENT MASTIC FIREPROOFING. **NO** FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL HSS TUBES LOCATED AT THE VOCATIONAL OVERHEAD DOORS AND STOREFRONT JAMBS.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING

AND OUTRIGGERS SUPPORTING CURTAINWALL COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS



FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS
- AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME
- ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.

TYPICAL DETAIL 2 ON DRAWING S0-0-7.

- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- 6.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 W2.1xW2.1 WWR.
- 9.) INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.

12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.

- HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR
- ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

 14.)

 HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP,

 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH

 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2".

 REINFORCE WITH 6x6 W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 5.)

 INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8
 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT,
 REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND
 ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- DETAIL 8 ON DRAWING S0-0-8.

 18.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL
- OR 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS
 AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL
 WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
 SHEAR WALLS TO THE STRUCTURE.
- 19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE
 TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (119' 6 3/4") AT THE SECOND FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) (NN) AND (16) (25). UNLESS NOTED OTHERWISE AS (X' X"), (+/-X' X"), OR HI/LO.
 TYPICAL UNDERSIDE-OF-DECK ELEVATION IS DEPRESSED BELOW(119' 6 3/4") AT THE GYM FLOOR LEVEL, IN THE
- AREA BOUNDED BY GRIDS (DD) (KK) AND (17) (24).
 ELEVATION IS TO BE DETERMINED BASED ON THICKNESS
 OF GYM-FLOORING SYSTEM.
 UNLESS NOTED OTHERWISE AS (X' X"), (+/-X' X"), OR HI/LO.
- (120' 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
 4.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION,

SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

BRACE FRAME KEY

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

WF INDICATES A BRACE FRAME BELOW LEVEL

MSBA 60% CD Submission

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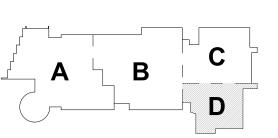
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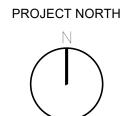
Waltham, MA

01/13/2023



KEY PLAN

MAGNETIC NORTH



SECOND FLOOR FRAMING PLAN -

AREA D

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023

S1-1-2D

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

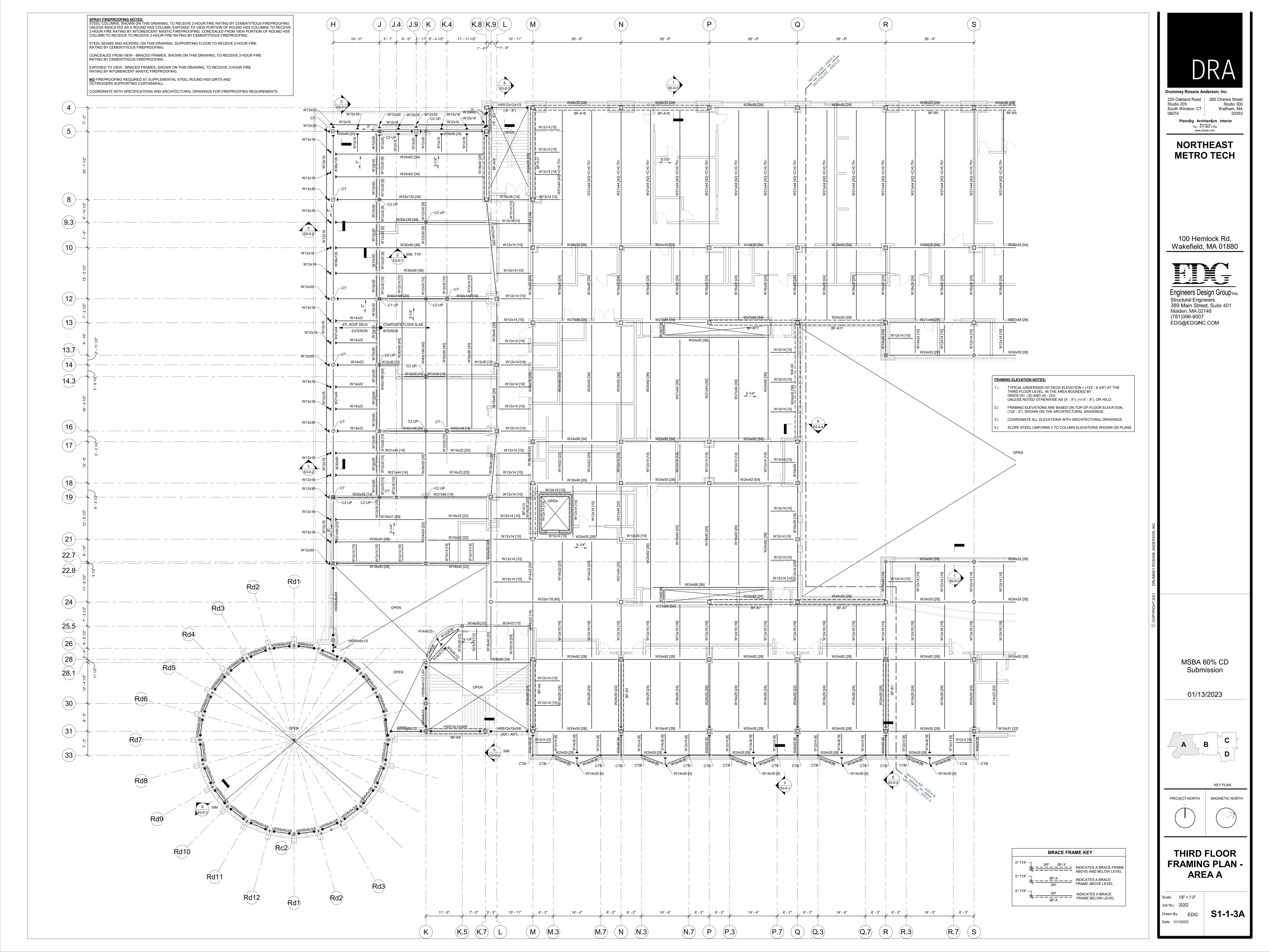
EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.

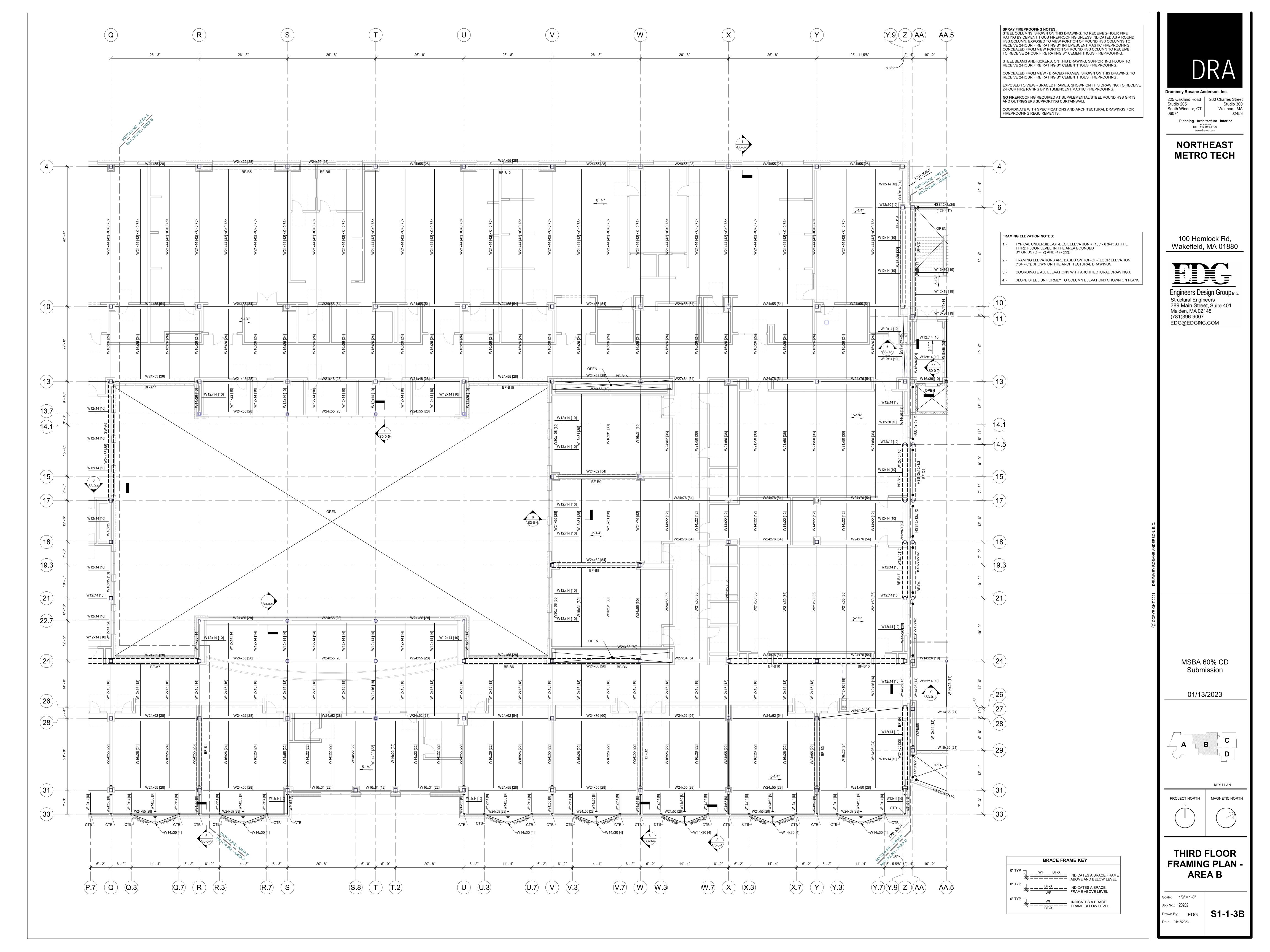
NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL HSS TUBES LOCATED AT THE VOCATIONAL

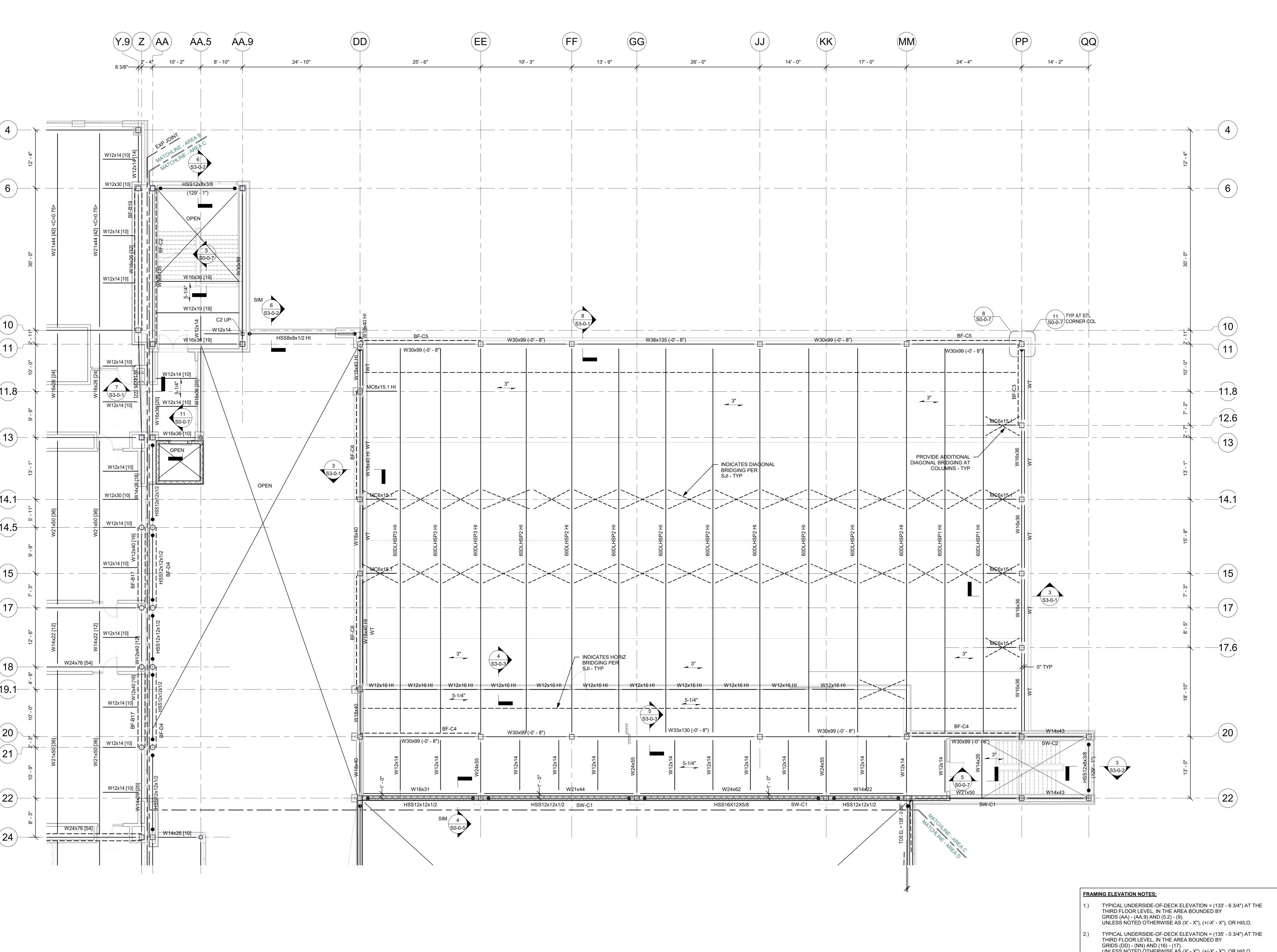
NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL

OVERHEAD DOORS AND STOREFRONT JAMBS.

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.







FRAMING NOTES:

FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.

2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3

4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM

AND S4-0-4 FOR ADDITIONAL INFORMATION.

UNLESS NOTED OTHERWISE.

5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING

S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.

6.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.

7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH

6x6 - W2.1xW2.1 WWR.

9.) INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE

TYPE B, GALVANIZED STEEL ROOF DECK.

3"
INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE

10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.

11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.

12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.

HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

14.)

HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP,

18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH

3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2".

REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING

S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

15.) NDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8
ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT,
REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND
ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.

18.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL

OR 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS
AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL
WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
SHEAR WALLS TO THE STRUCTURE.

19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.

20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE
TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.

21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.

22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (133' - 6 3/4") AT THE THIRD FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (AA.9) AND (5.2) - (9). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.
 TYPICAL UNDERSIDE-OF-DECK ELEVATION = (135' - 0 3/4") AT THE THIRD FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (DD) - (NN) AND (16) - (17). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.
 TYPICAL UNDERSIDE-OF-DECK ELEVATION = (136' - 4") AT THE MULTI-PURPOSE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (D)D - (MM) AND (7.2) - (16.2). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.
 FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (134' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
 COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY
CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED
TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY
INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND
HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES. SHOWN ON THIS DRAWING. TO RECEIVE 2-HOUR FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING .

FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

O" TYP

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

O" TYP

WF INDICATES A BRACE FRAME ABOVE LEVEL

O" TYP

WF INDICATES A BRACE FRAME ABOVE LEVEL

O" TYP

FRAME BELOW LEVEL



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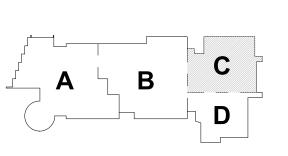
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MSBA 60% CD Submission

01/13/2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



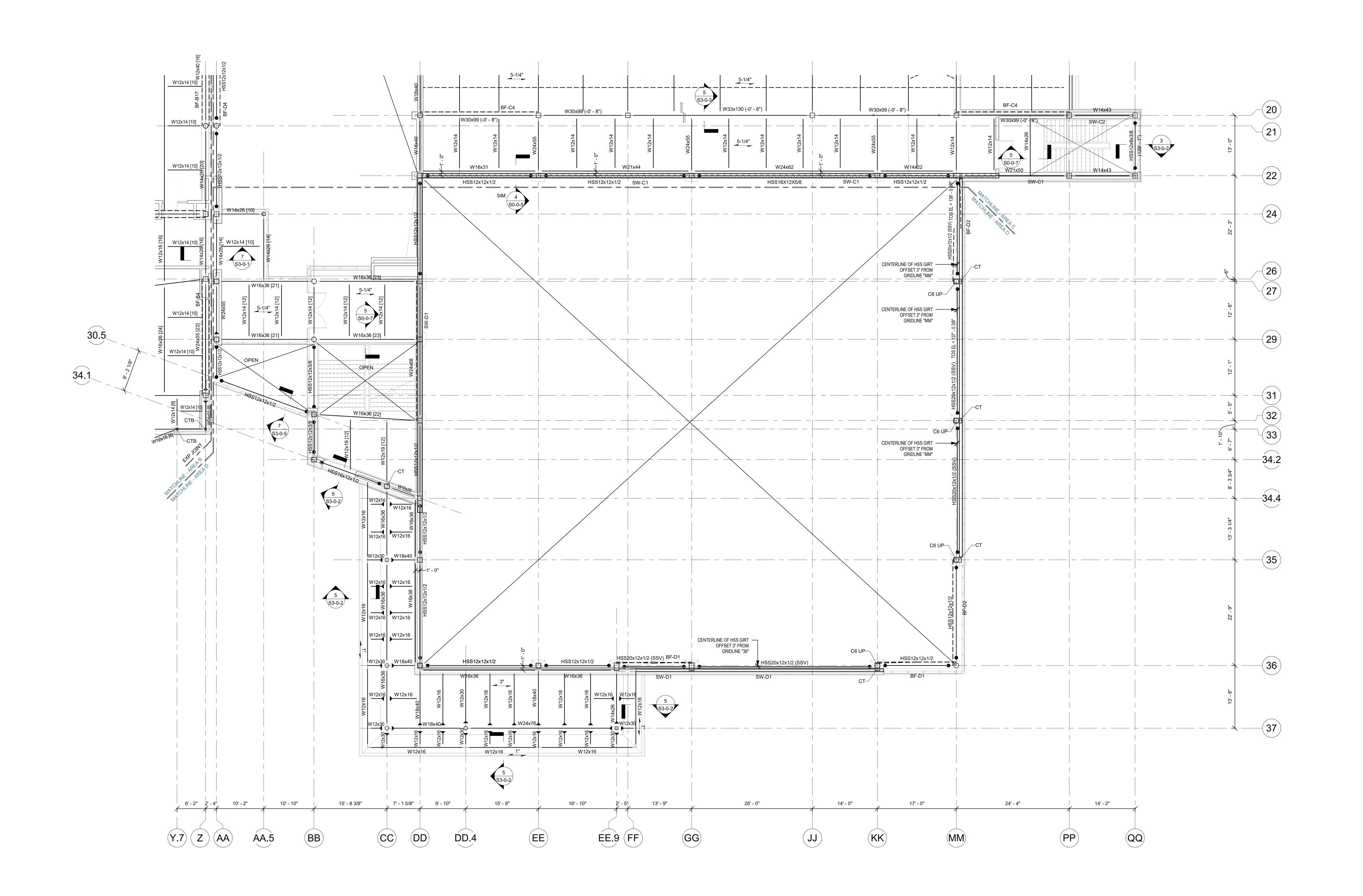
THIRD FLOOR FRAMING PLAN -AREA C

Scale: 1/8" = 1'-0"

Job No.: 20202

Drawn By: EDG

S1-1-3C



FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (133' 6 3/4") AT THE THIRD FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (DD) AND (18) - (20.9). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.
- 2.) TYPICAL UNDERSIDE-OF-DECK ELEVATION = (128' 6 3/4") AT THE LOW ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (CC) - (FF) AND (22.9) - (25). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.
- FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (134' 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 4.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. Concealed from View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. Exposed to View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING. **NO** FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS

AND OUTRIGGERS SUPPORTING CURTAINWALL COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS. **BRACE FRAME KEY**

, — WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL WF INDICATES A BRACE FRAME ABOVE LEVEL WF INDICATES A BRACE FRAME BELOW LEVEL

FRAMING PLAN -AREA D Scale: 1/8" = 1'-0"

THIRD FLOOR

MSBA 60% CD

Submission

01/13/2023

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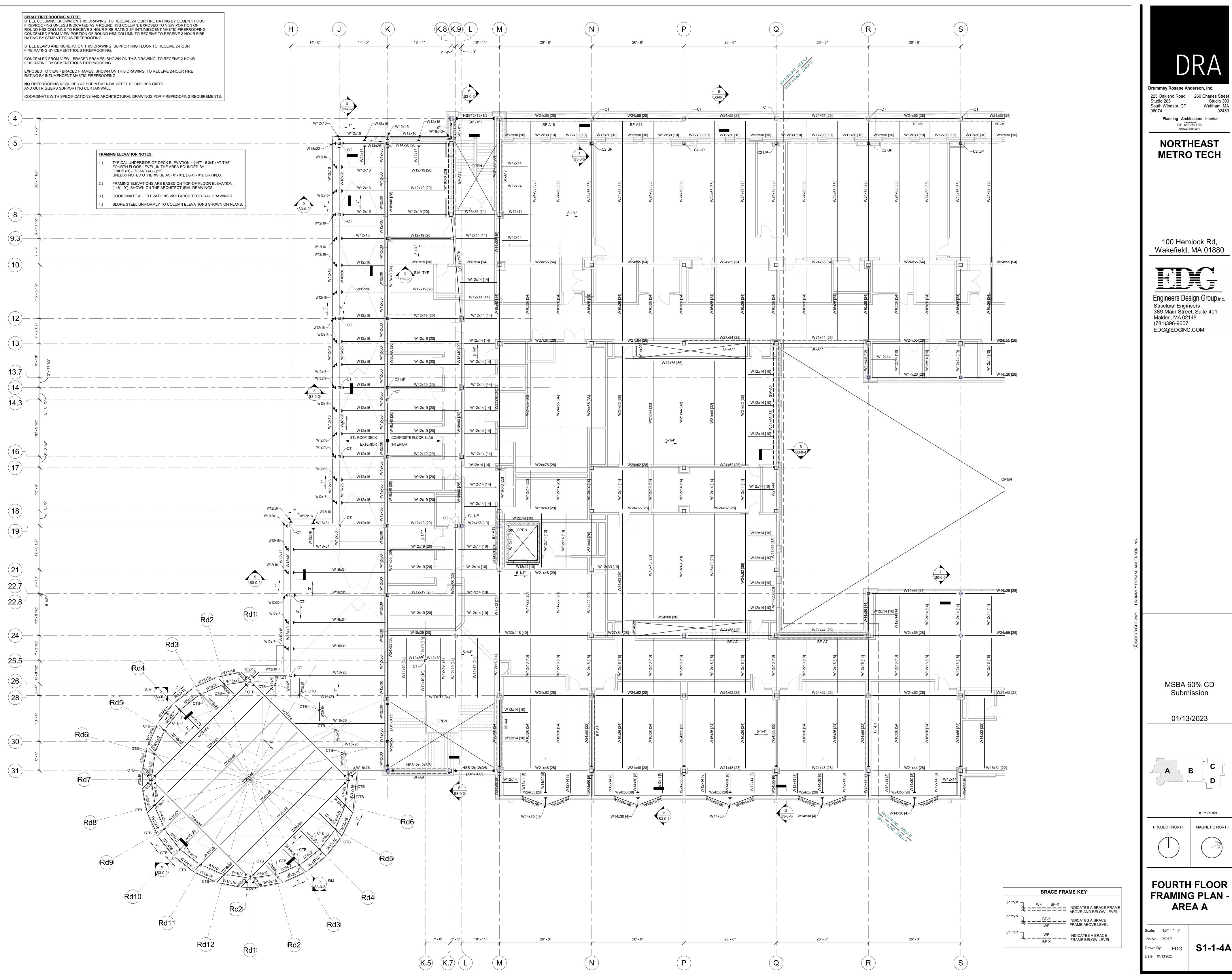
Waltham, MA

Drawn By: EDG Date: 01/13/2023

PROJECT NORTH

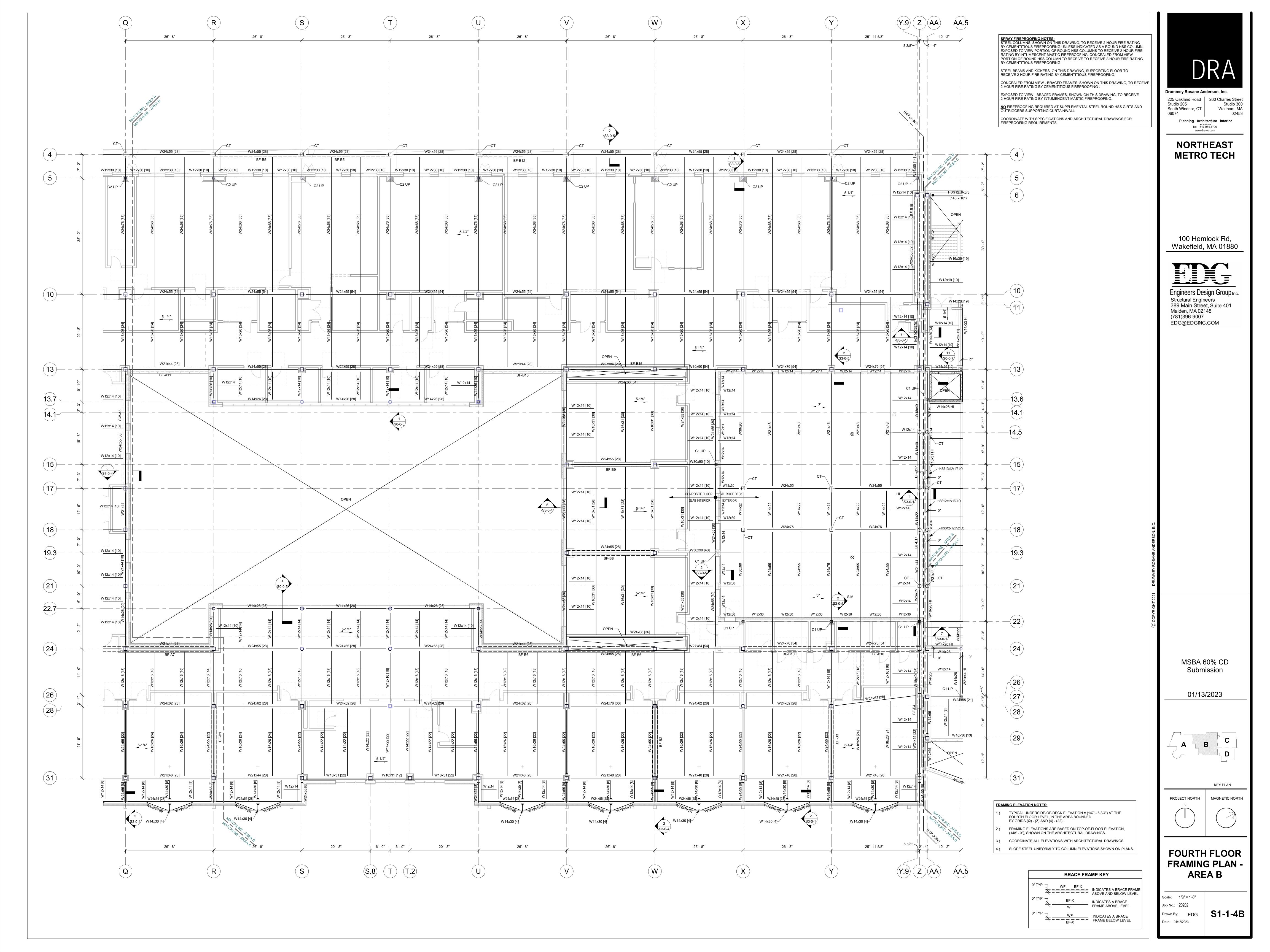
KEY PLAN

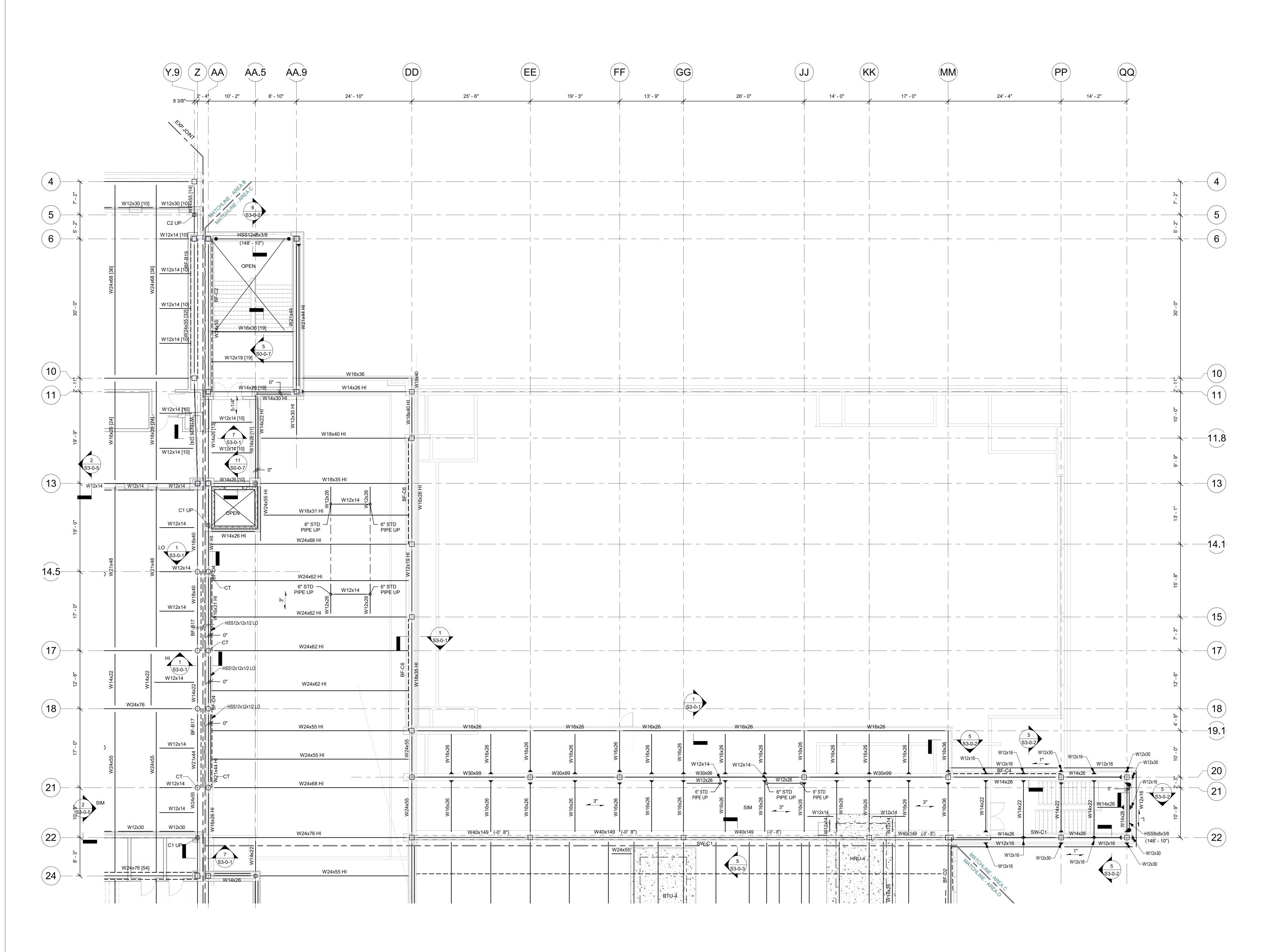
MAGNETIC NORTH





S1-1-4A





SPRAY FIREPROOFING NOTES: STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING (Unless located higher than 20' to the bottom of the structural members) CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

FRAMING NOTES:

1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.

2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS

AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.

4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM

UNLESS NOTED OTHERWISE.

5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING

S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7. 6.) •— INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2"

THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7. 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.

8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1xW2.1 WWR.

9.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.

10.) INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE NCAS TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.

11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.

12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.

13.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

14.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

15.) \otimes INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.

17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.

18.) XX INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF └── SHEAR WALLS TO THE STRUCTURE.

19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.

20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE
TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.

23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL

21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.

BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

BRACE FRAME KEY

BF-X INDICATES A BRACE

HIDICATES A BRACE FRAME BELOW LEVEL

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

FRAME ABOVE LEVEL

INDICATES A BRACE

22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

> MSBA 60% CD Submission

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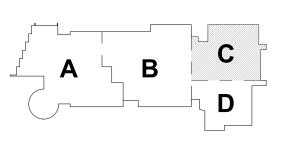
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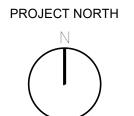
Waltham, MA

01/13/2023



KEY PLAN

MAGNETIC NORTH



FOURTH FLOOR FRAMING PLAN -**AREA C**

Scale: 1/8" = 1'-0" Drawn By: Date: 01/13/2023

FRAMING ELEVATION NOTES:

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (147' -6 3/4") AT THE FOURTH FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (AA.9) AND (5.2) - (9).

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (152 - 4") AT THE CLEAR-STORY ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (NN) AND (7) - (17). UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.

UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.

FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (148' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING FLOOR TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING (Unless located higher than 20' to the bottom of the structural members) CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING. <u>NO</u> FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRT AND OUTRIGGERS SUPPORTING CURTAINWALL

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.



Drummey Rosane Anderson, Inc. 225 Oakland Road 260 Charles Street Studio 205 Studio 300 South Windsor, CT Waltham, MA

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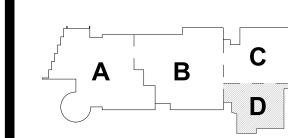
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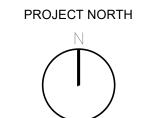
> MSBA 60% CD Submission

01/13/2023



KEY PLAN

MAGNETIC NORTH



BRACE FRAME KEY

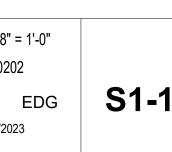
WF INDICATES A BRACE FRAME BELOW LEVEL

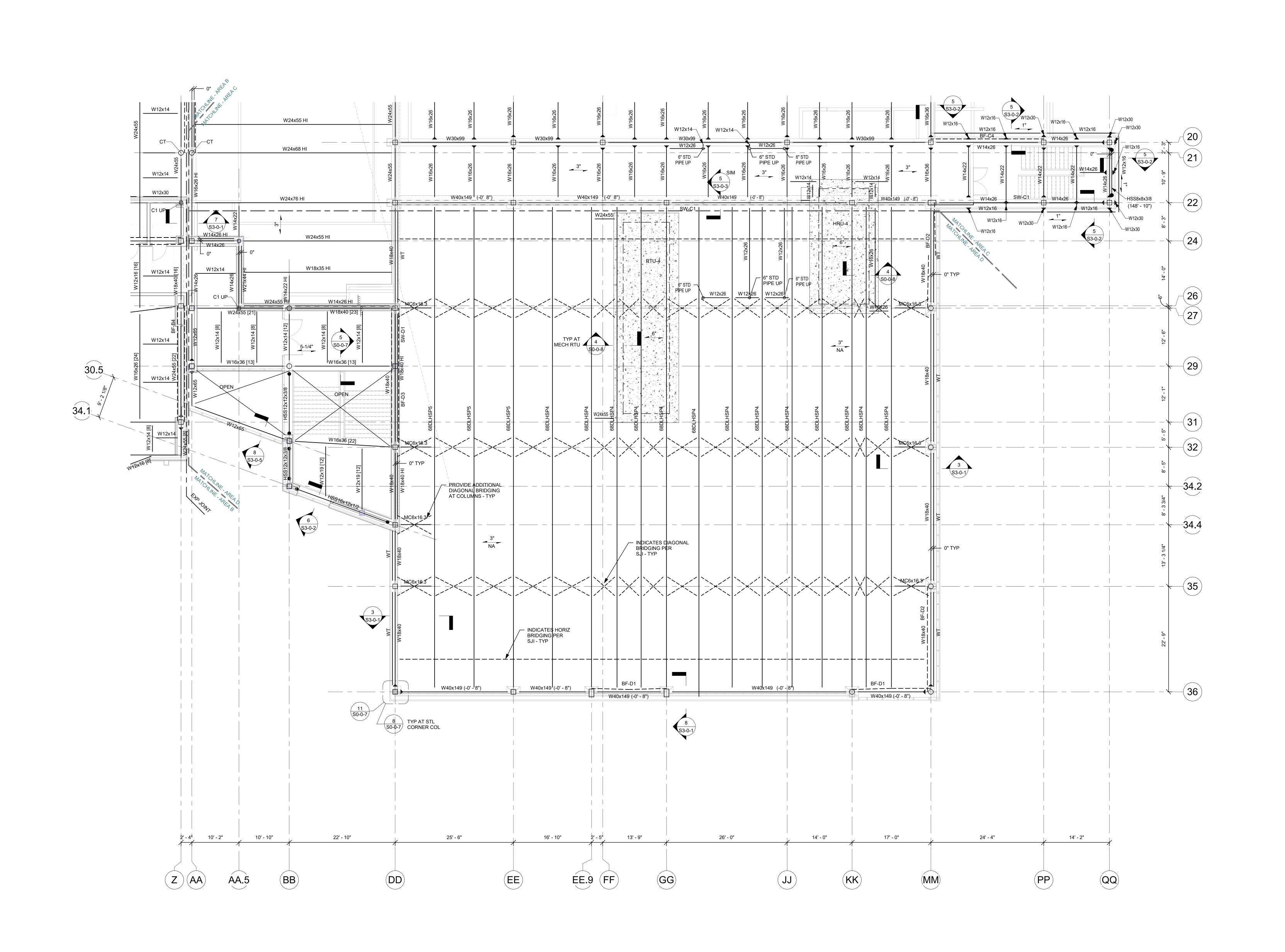
WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

FOURTH FLOOR FRAMING PLAN -**AREA D**

Scale: 1/8" = 1'-0" Drawn By: EDG

Date: 01/13/2023



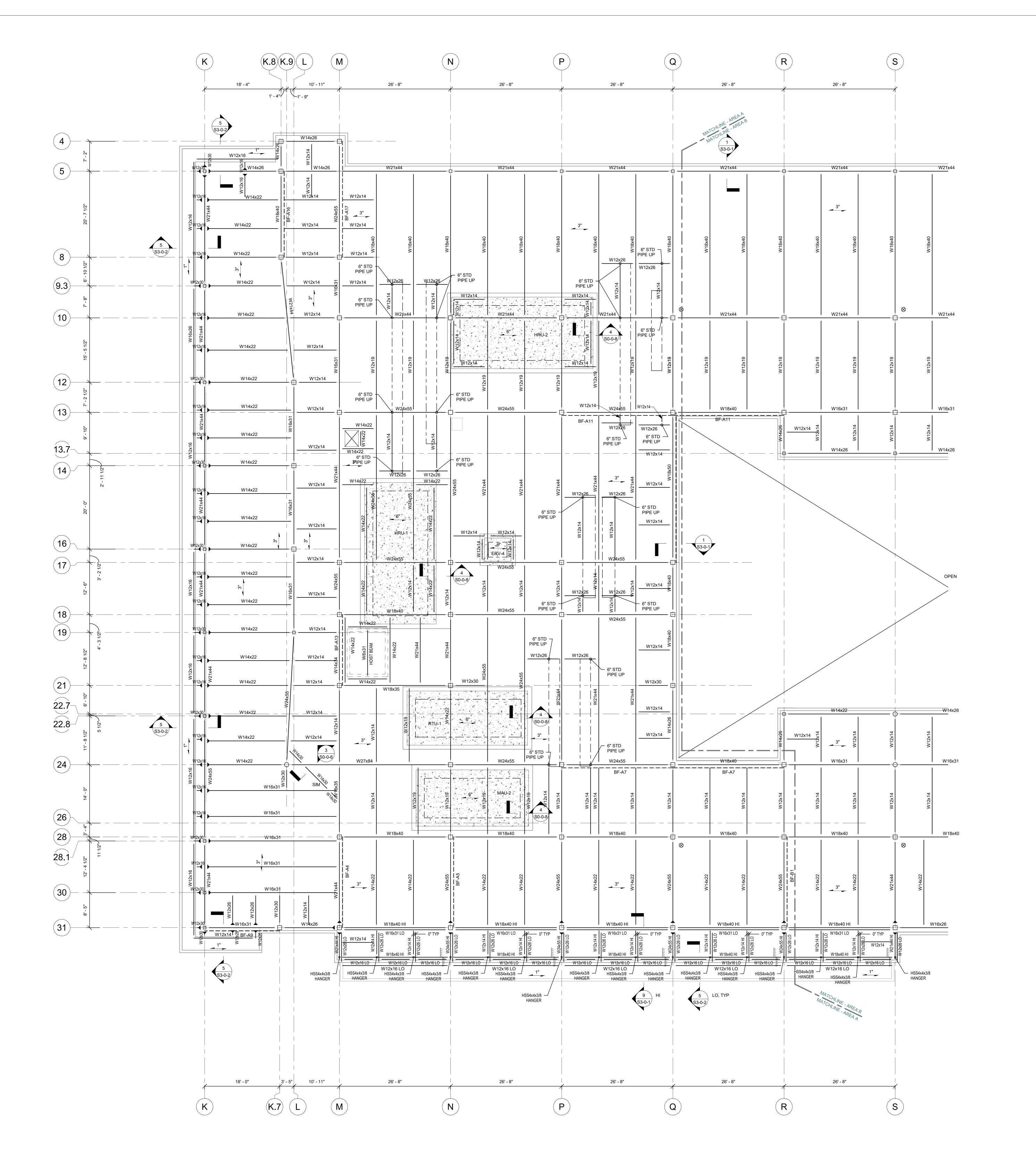


FRAMING ELEVATION NOTES:

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (147' - 6 3/4") AT THE FOURTH FLOOR LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (DD) AND (18) - (20.5).

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (152' - 4") AT THE GYM ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (DD) - (KK) AND (17) - (24).

FRAMING ELEVATIONS ARE BASED ON TOP-OF-FLOOR ELEVATION, (148' - 0"), SHOWN ON THE ARCHITECTURAL DRAWINGS. COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS. SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.



SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING ROOF TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. METAL ROOF DECK TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- 6.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH
- 9.) INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.

6x6 - W2.1xW2.1 WWR.

- 10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
- 13.)

 HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP,

 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT

 CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH

 6x6 W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR

 ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 14.)

 HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP,
 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH
 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2".
 REINFORCE WITH 6x6 W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING
 S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 5.) SINDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- 18.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL

 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL

 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS

 AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL

 WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
- 19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

L - SHEAR WALLS TO THE STRUCTURE.

23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

FRAMING ELEVATION NOTES:

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162' - 0") AT THE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (K) - (S) AND (4) - (22).

ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (K) - (S) AND (4) - (UNLESS NOTED OTHERWISE AS (X' - X"), (+/-X' - X"), OR HI/LO.

COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

3.) SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

BRACE FRAME KEY

— BF-X — INDICATES A BRACE FRAME ABOVE LEVEL

WF INDICATES A BRACE FRAME BELOW LEVEL

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

POOI

PROJECT NORTH

ROOF FRAMING PLAN - AREA A

MSBA 60% CD

Submission

01/13/2023

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Studio 300

Waltham, MA

Scale: 1/8" = 1'-0"

Job No.: 20202

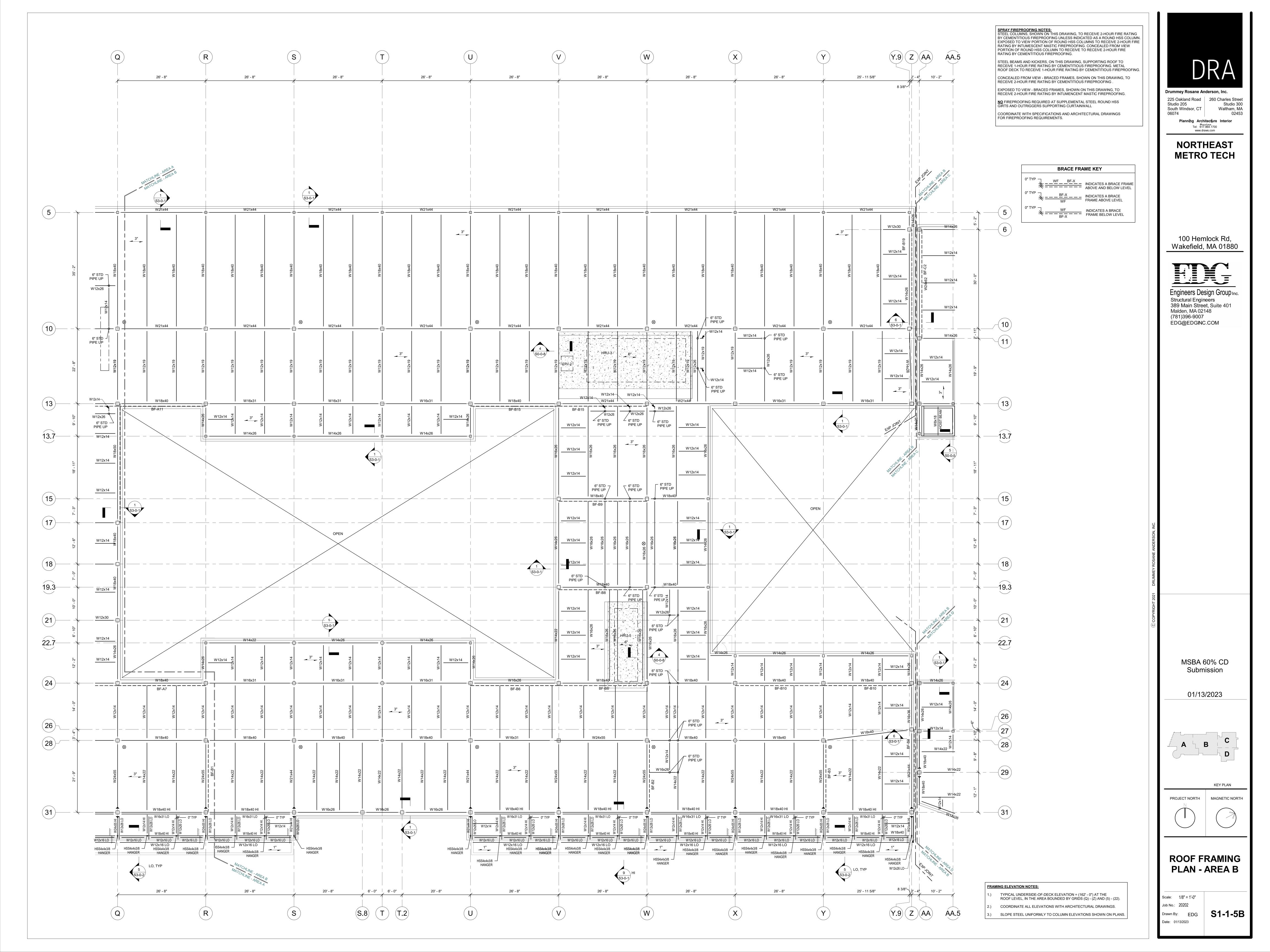
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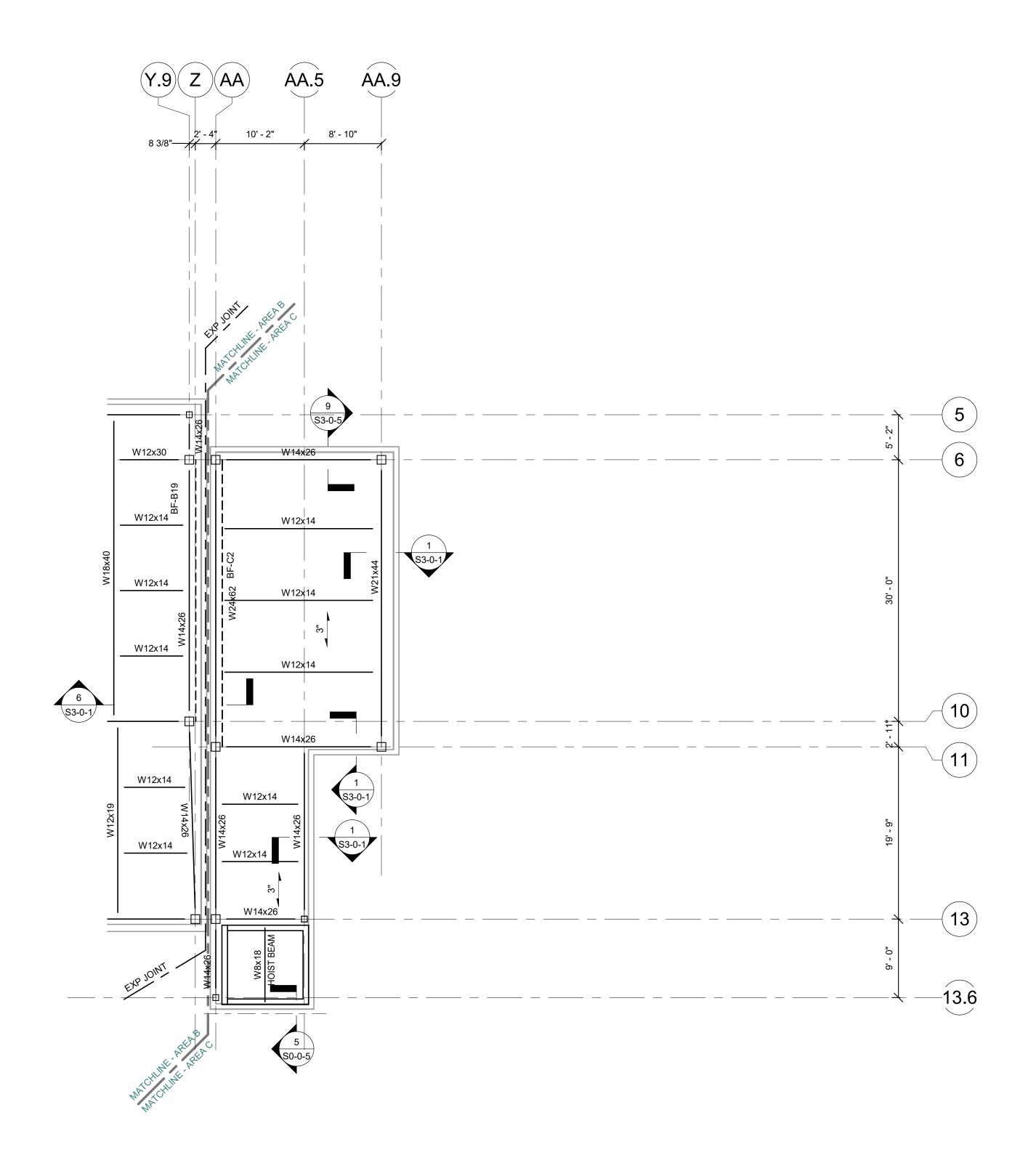
Date: 01/13/2023

S1-1-5A

KEY PLAN

MAGNETIC NORTH





SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING ROOF TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. METAL ROOF DECK TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

Concealed from View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

Exposed to View - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING. NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS

AND OUTRIGGERS SUPPORTING CURTAINWALL COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3 AND S4-0-4 FOR ADDITIONAL INFORMATION.
- 4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.
- 5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.
- 6.) •— INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.
- 7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.
- 8.) 5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH
- 6x6 W2.1xW2.1 WWR. 9.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.
- 10.) NCAS INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.
- 11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.
- 12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.
- 13.)

 HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP,

 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT

 CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 14.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP, 18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH NCA 3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.
- 15.) 😡 INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- 17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.
- 18.) XX INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS OR AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF L - SHEAR WALLS TO THE STRUCTURE.
- 19.) INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.
- 20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.
- 21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.
- 22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- 23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

FRAMING ELEVATION NOTES:

- TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162' 0") AT THE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (AA.9) AND (5.2) - (9).
- COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
- SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

BRACE FRAME KEY WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

— BF-X — INDICATES A BRACE FRAME ABOVE LEVEL

WF INDICATES A BRACE FRAME BELOW LEVEL

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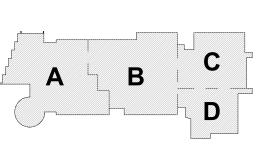


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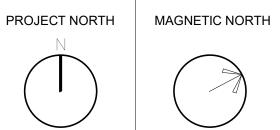
EDG@EDGINC.COM

MSBA 60% CD Submission

01/13/2023



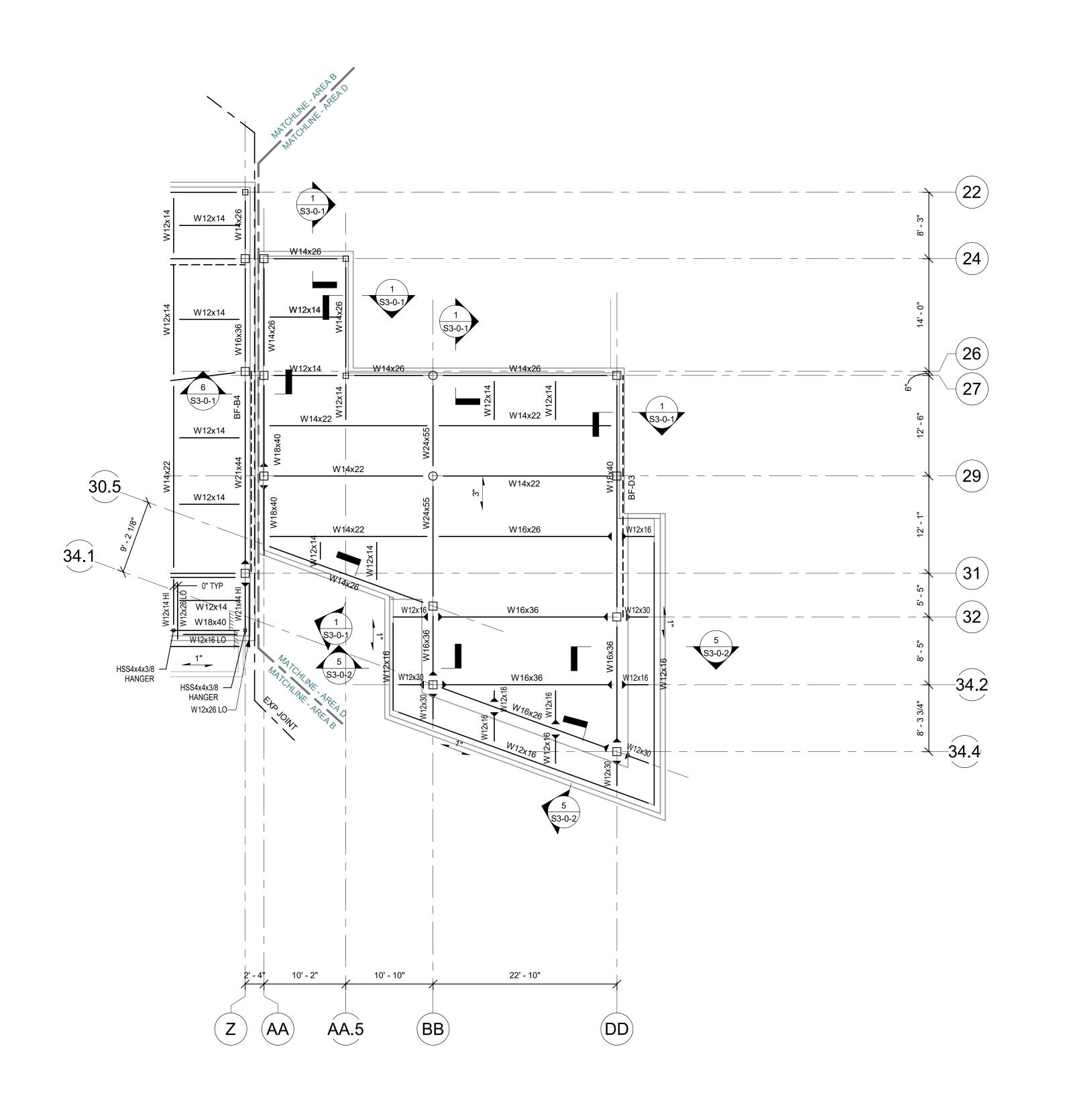
KEY PLAN



ROOF FRAMING PLAN - AREA C

Scale: 1/8" = 1'-0" Drawn By: EDG

Date: 01/13/2023



SPRAY FIREPROOFING NOTES:
STEEL COLUMNS, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING UNLESS INDICATED AS A ROUND HSS COLUMN. EXPOSED TO VIEW PORTION OF ROUND HSS COLUMNS TO RECEIVE 2-HOUR FIRE RATING BY INTUMESCENT MASTIC FIREPROOFING. CONCEALED FROM VIEW PORTION OF ROUND HSS COLUMN TO RECEIVE TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

STEEL BEAMS AND KICKERS, ON THIS DRAWING, SUPPORTING ROOF TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING. METAL ROOF DECK TO RECEIVE 1-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

CONCEALED FROM VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY CEMENTITIOUS FIREPROOFING.

EXPOSED TO VIEW - BRACED FRAMES, SHOWN ON THIS DRAWING, TO RECEIVE 2-HOUR FIRE RATING BY INTUMENCENT MASTIC FIREPROOFING.

NO FIREPROOFING REQUIRED AT SUPPLEMENTAL STEEL ROUND HSS GIRTS AND OUTRIGGERS SUPPORTING CURTAINWALL

COORDINATE WITH SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

FRAMING NOTES:

1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.

2.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

3.) BF-1 ETC... INDICATES A BRACED BAY. REFER TO BRACED FRAME ELEVATIONS AND DETAILS ON DRAWINGS S4-0-1, S4-0-2, S4-0-3

AND S4-0-4 FOR ADDITIONAL INFORMATION.

UNLESS NOTED OTHERWISE.

4.) [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 4 1/4" LONG HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM

5.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 8 AND 9 ON DRAWING S0-0-5 AND DETAIL 3 ON DRAWING S0-0-7.

6.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO TYPICAL DETAIL 2 ON DRAWING S0-0-7.

7.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER.

5-1/4" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3 1/4" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 5 1/4". REINFORCE WITH 6x6 - W2.1xW2.1 WWR.

9.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK.

10.) 3" INDICATES SPAN DIRECTION OF 3" DEEP, 18/20 GAGE TYPE NCAS, GALVANIZED CELLULAR ACOUSTIC STEEL ROOF DECK.

11.) 6" INDICATES SPAN DIRECTION OF 3" DEEP, 16 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 3" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". SEE TYPICAL DETAIL 4 ON DRAWING S0-0-8.

12.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING INFORMATION, REFER TO DETAIL 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8.

13.) HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 2" DEEP, 18 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 4" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.07 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

14.)

HATCHED AREA INDICATES LOCATION OF CONCRETE SLAB WITH 3" DEEP,
18/20 GAGE TYPE NCA, GALVANIZED CELLULAR ACOUSTIC STEEL DECK WITH
3 1/2" LIGHT WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 6 1/2". REINFORCE WITH 6x6 - W2.1xW2.1 WWR. REFER TO TYPICAL DETAIL 5 ON DRAWING S0.08 FOR ADDITIONAL INFORMATION. USE 3/4" DIA x 5" LONG HEADED STUDS.

15.) 😡 INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.

16.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.

17.) WF INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8.

18.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL OR WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF L =
J SHEAR WALLS TO THE STRUCTURE.

INDICATES AN INSULATED STRUCTURAL PRECAST CONCRETE WALL. COORDINATE WITH ARCHITECTURAL DRAWING.

20.) 1 1/2" INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 18/20 GAGE
TYPE BCA, GALVANIZED CELLULAR ACOUSTICAL STEEL ROOF DECK.

21.) 10" + 2" PC PLANK INDICATES SPAN OF 10" DEEP PRESTRESSED, PRECAST CONCRETE HOLLOW CORE PLANK WITH A MINIMUM 2" OF NORMAL WEIGHT CONCRETE TOPPING. PLANK AND CONCRETE TOPPING SLAB TO BE DESIGNED TO SUPPORT A MINIMUM LIVE LOAD CAPACITY OF 150 PSF. PRECAST CONCRETE PLANK TO BE DESIGNED FOR MINIMUM OF 2 HOUR FIRE RATING.

22.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

23.) WF INDICATES A SPLICE CONNECTION ALONG A CONTINUOUS STEEL BEAM. DESIGN SPLICECONNECTION FOR FULL CAPACITY OF STEEL BEAM.

FRAMING ELEVATION NOTES:

TYPICAL UNDERSIDE-OF-DECK ELEVATION = (162' - 0") AT THE ROOF LEVEL, IN THE AREA BOUNDED BY GRIDS (AA) - (DD) AND (18) - (26). 2.) COORDINATE ALL ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

SLOPE STEEL UNIFORMLY TO COLUMN ELEVATIONS SHOWN ON PLANS.

01/13/2023

BRACE FRAME KEY

WF INDICATES A BRACE FRAME BELOW LEVEL

WF BF-X INDICATES A BRACE FRAME ABOVE AND BELOW LEVEL

MSBA 60% CD

Submission

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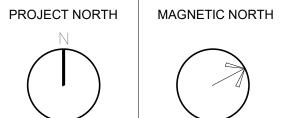
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Studio 300

KEY PLAN

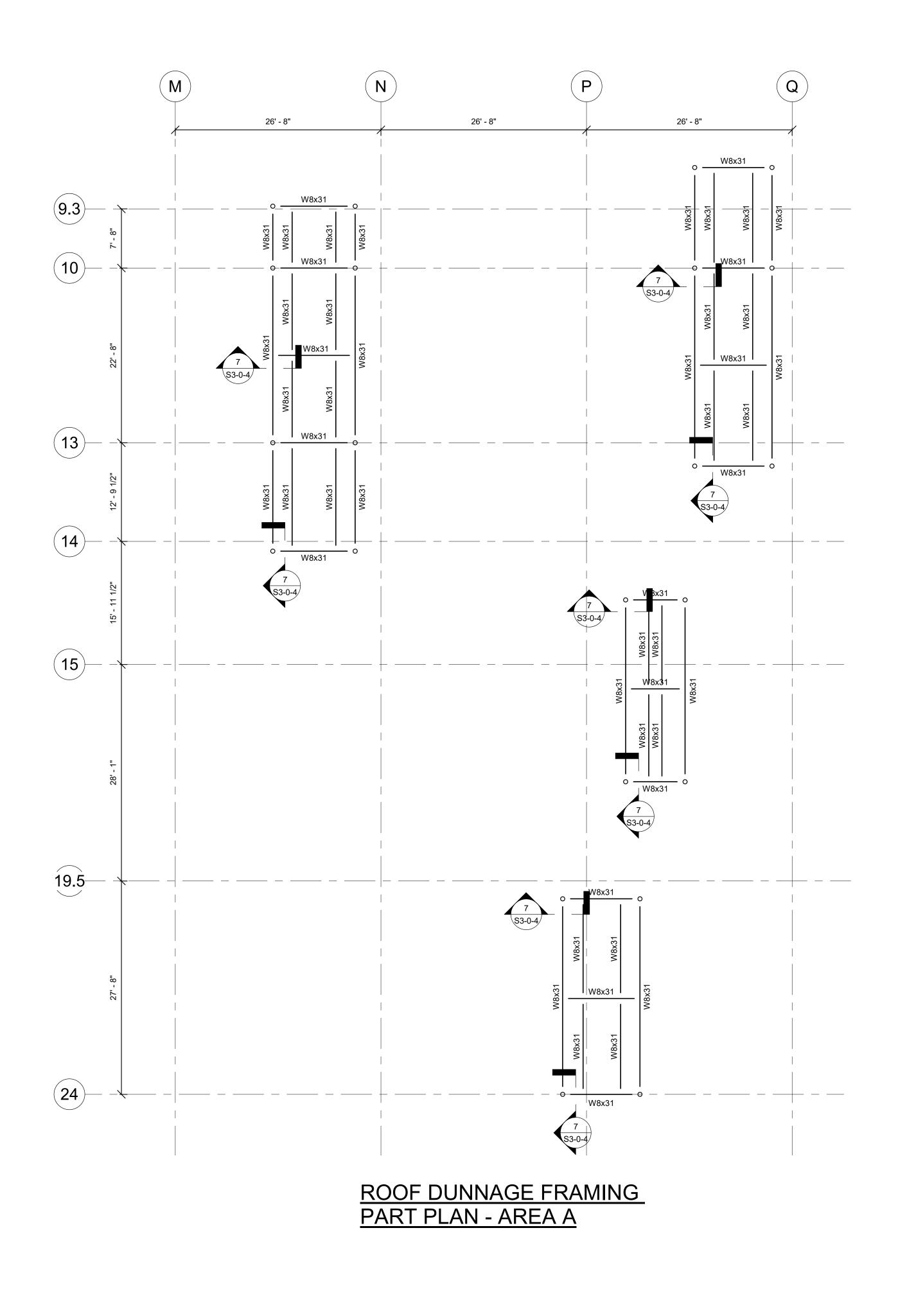


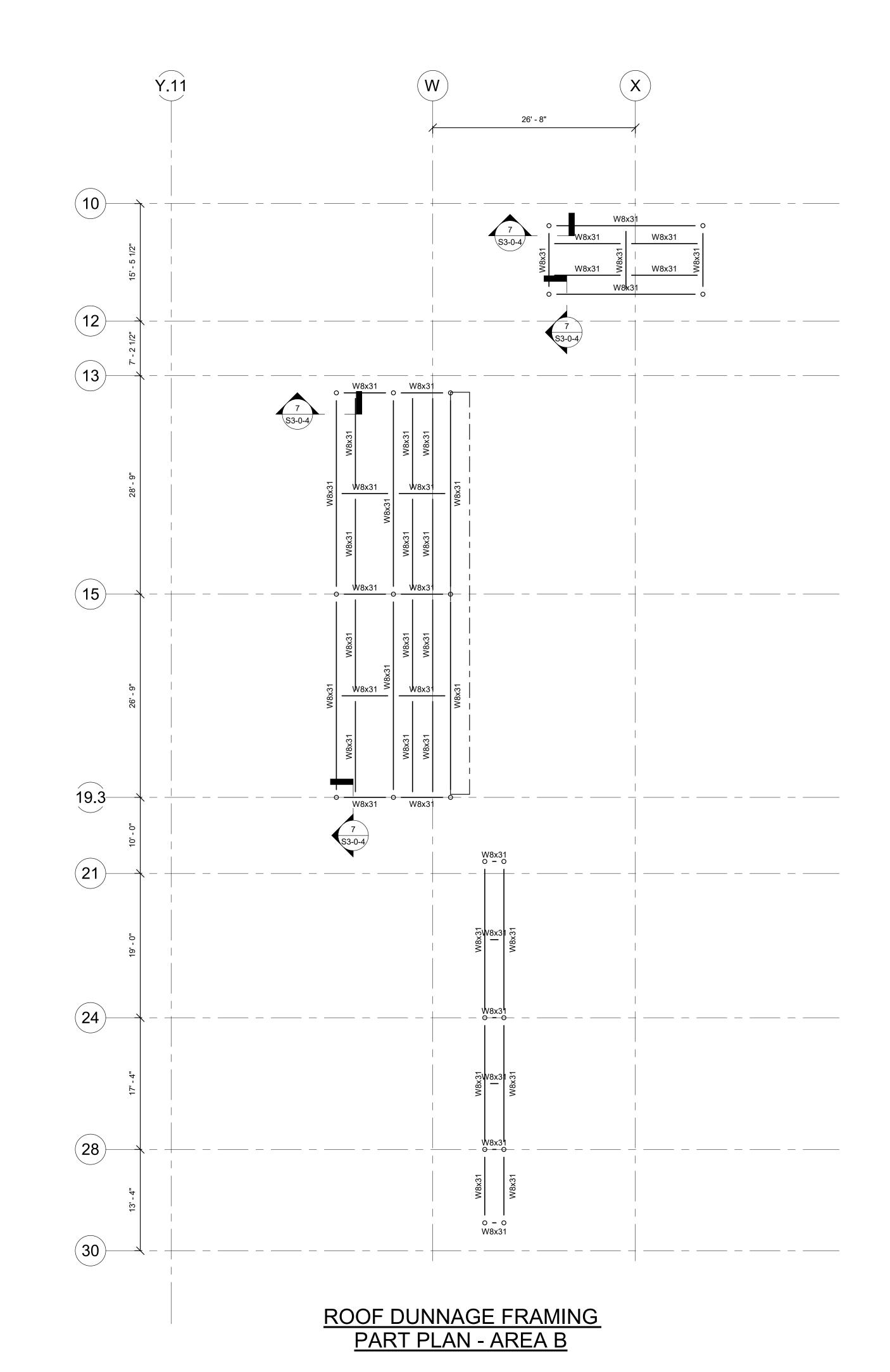


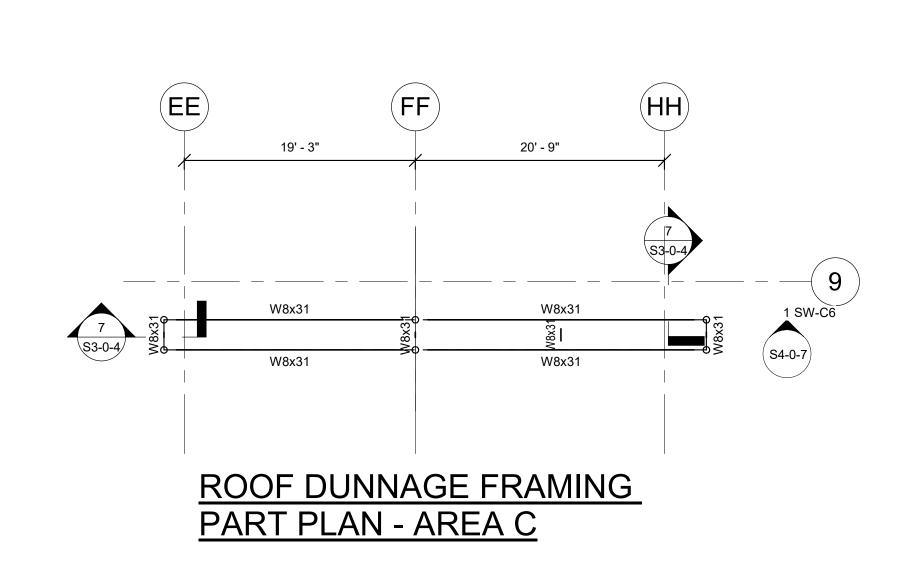
ROOF FRAMING PLAN - AREA D

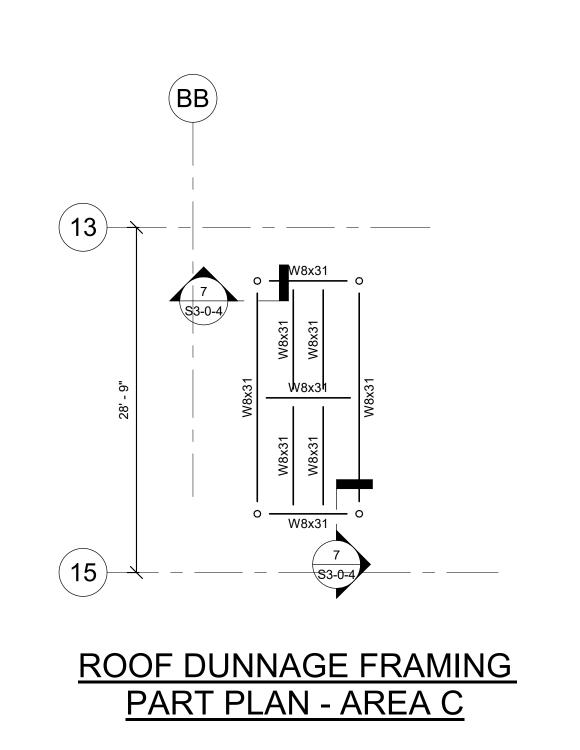
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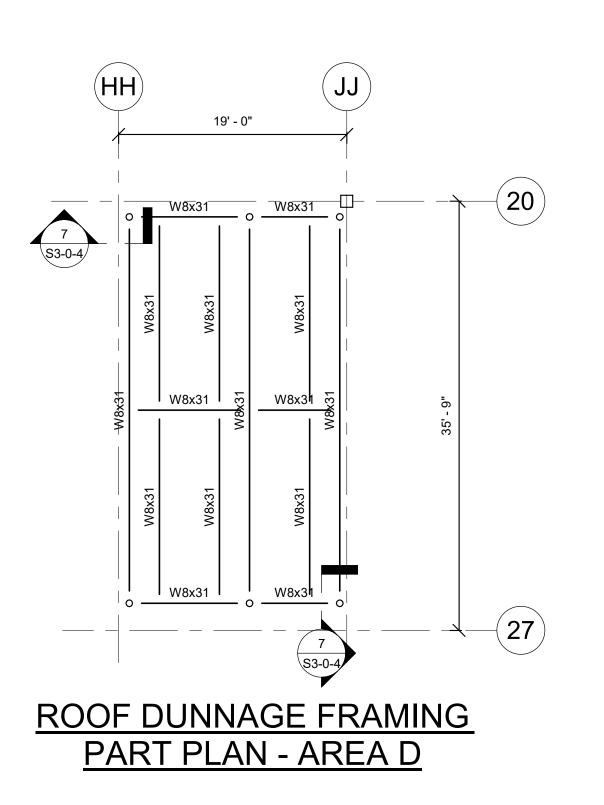
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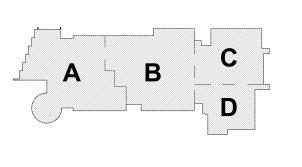
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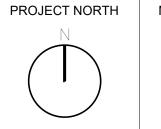
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> MSBA 60% CD Submission

01/13/2023



KEY PLAN
T NORTH MAGNETIC NORTH



ROOF DUNNAGE

FRAMING PARTS

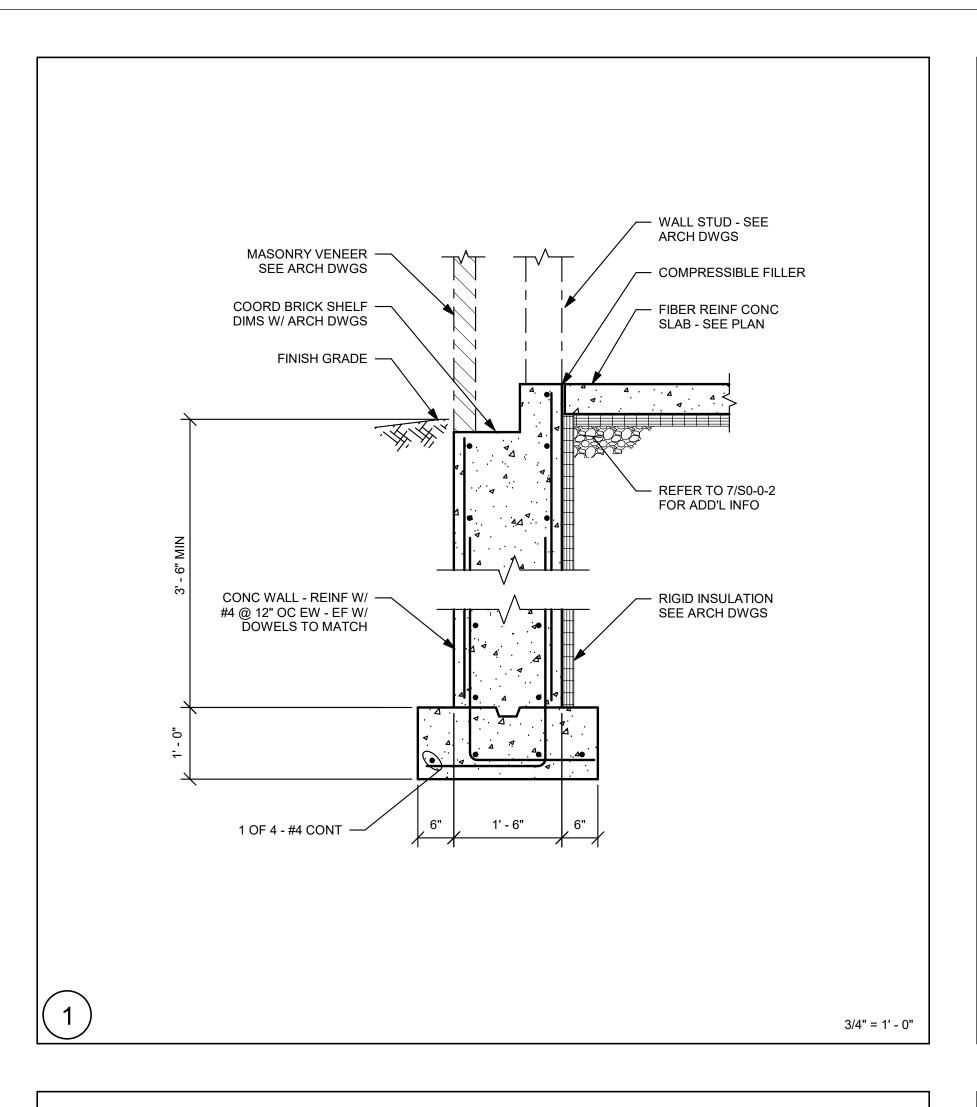
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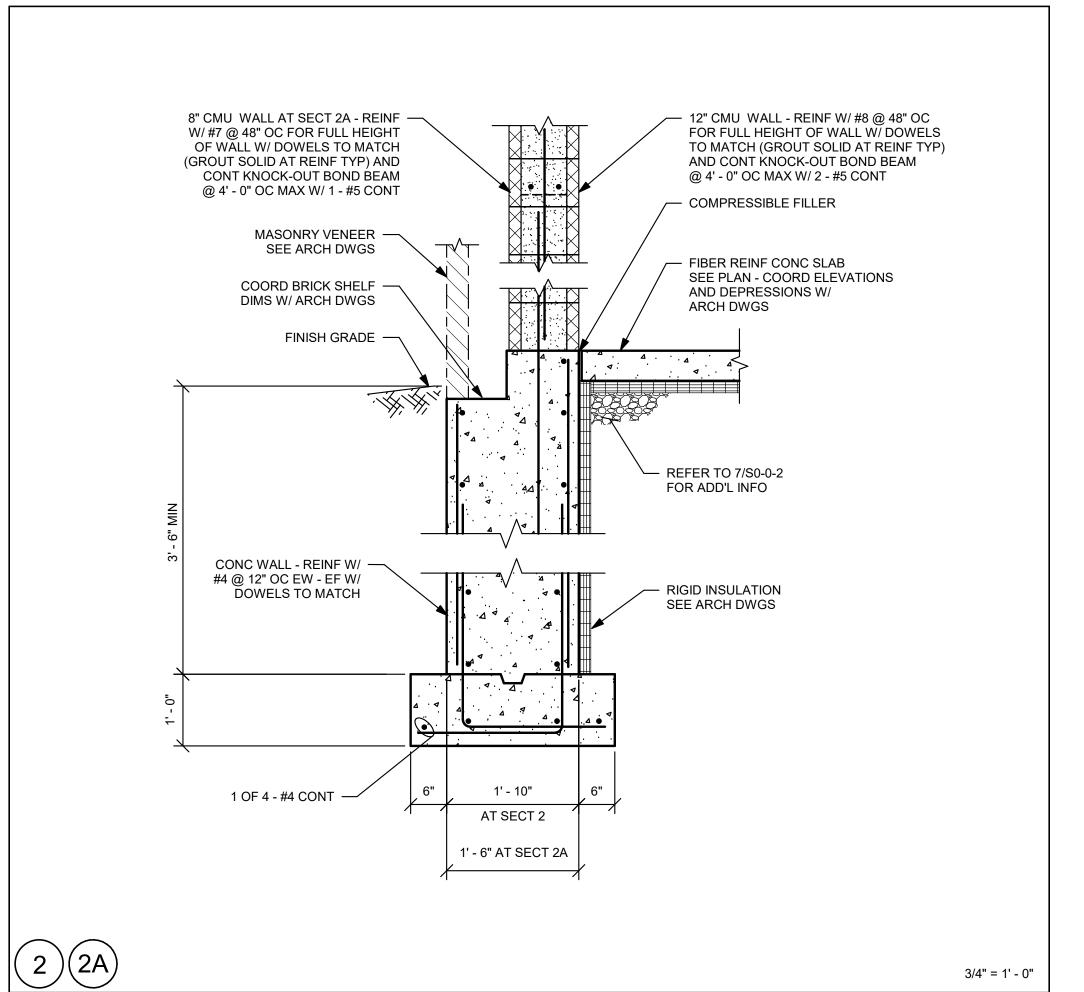
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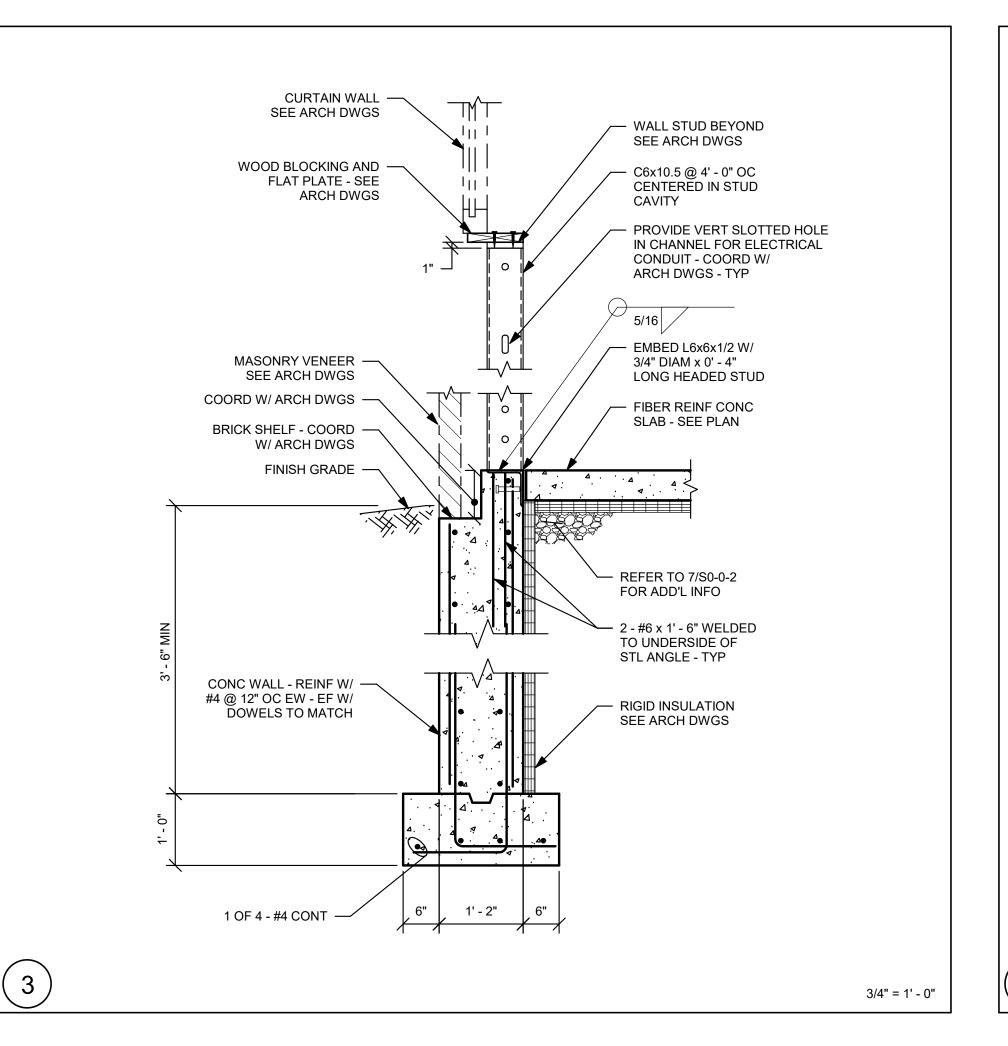
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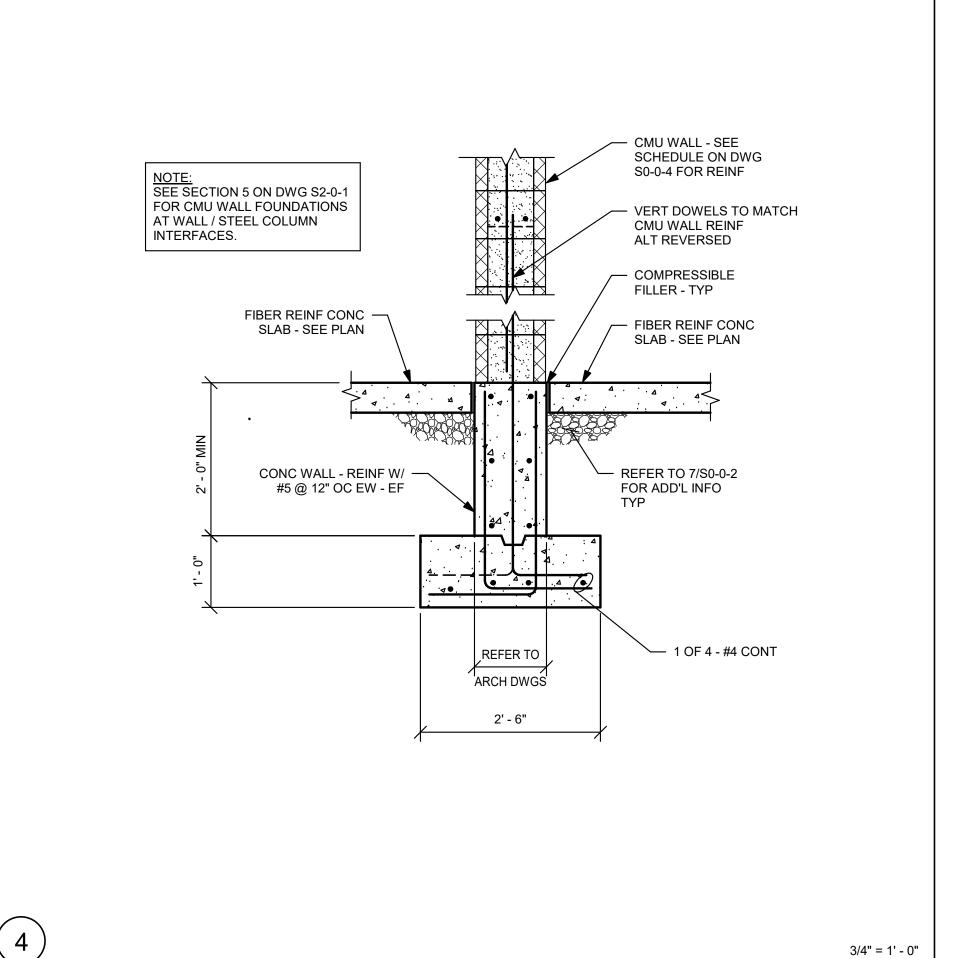
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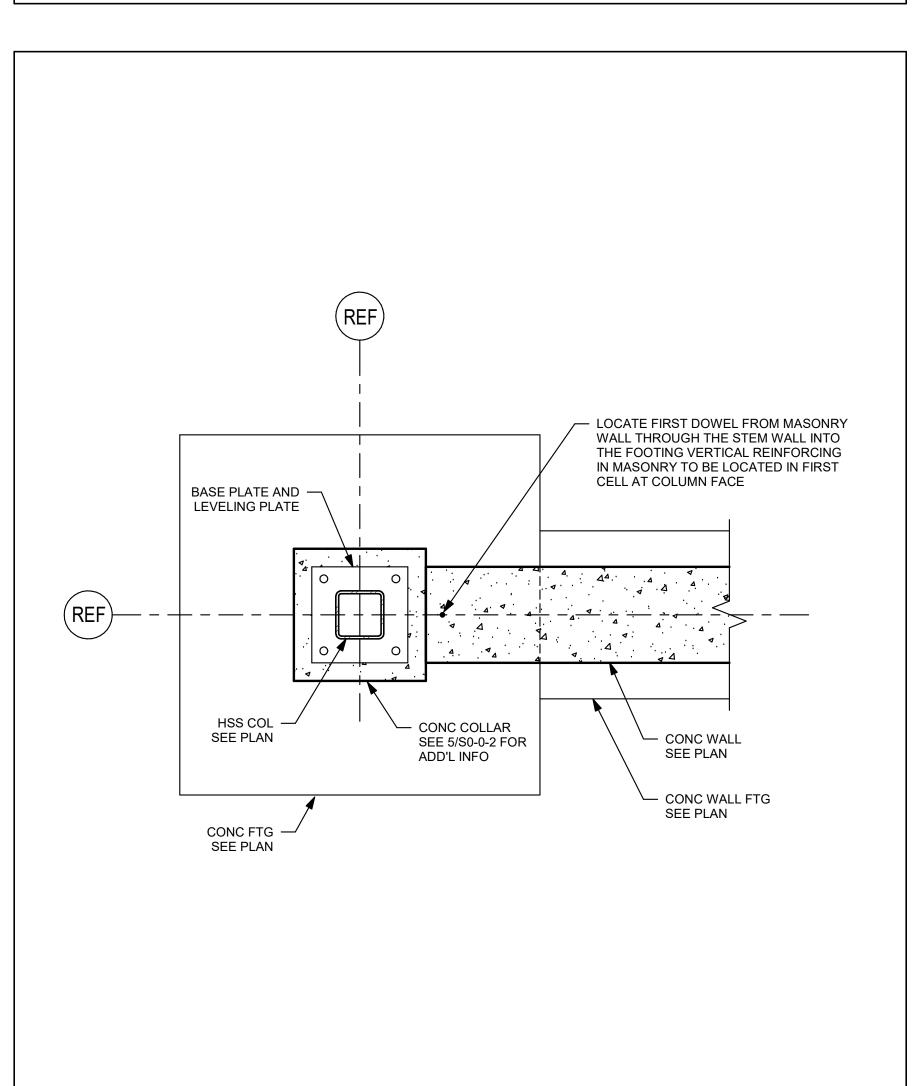
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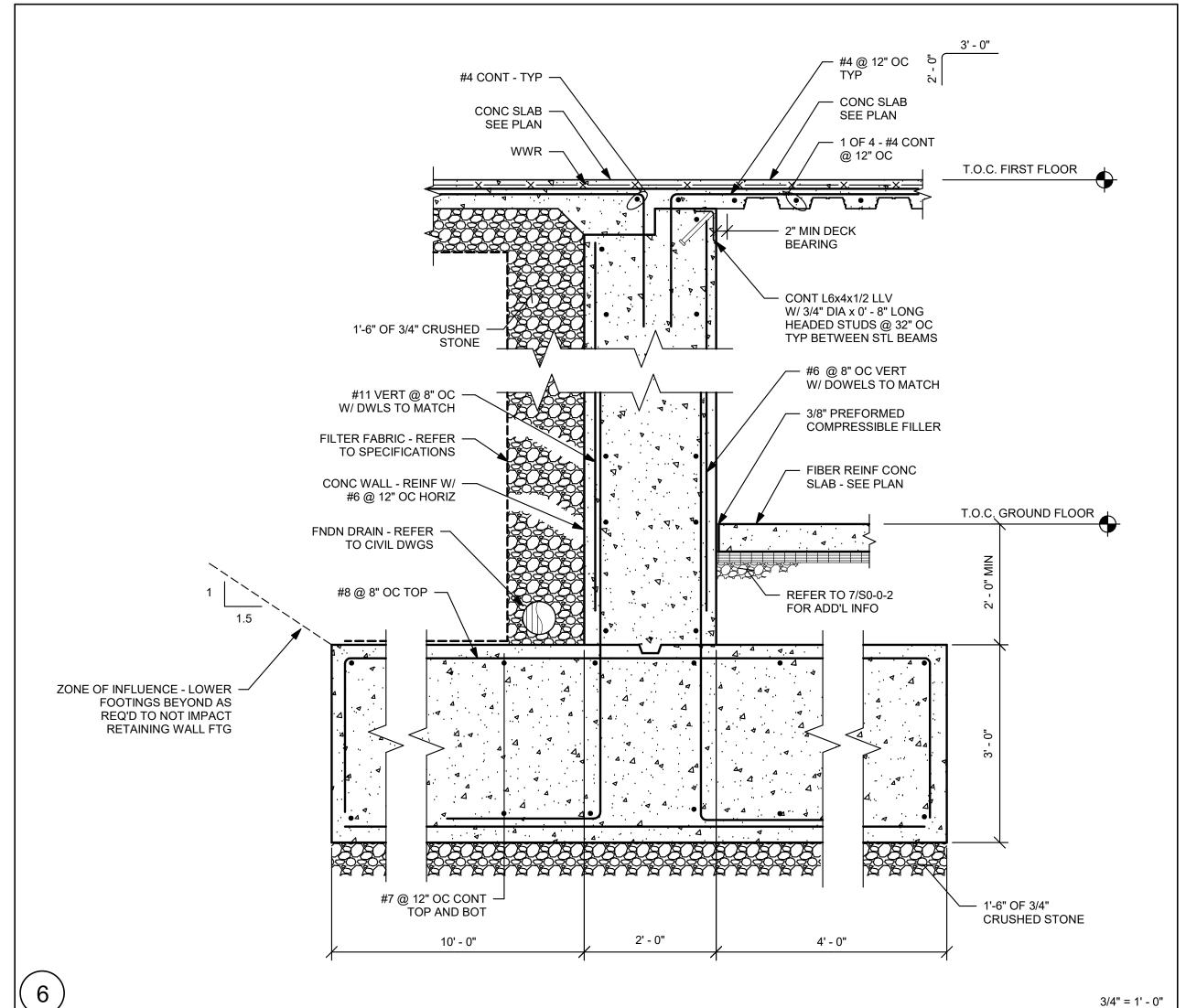


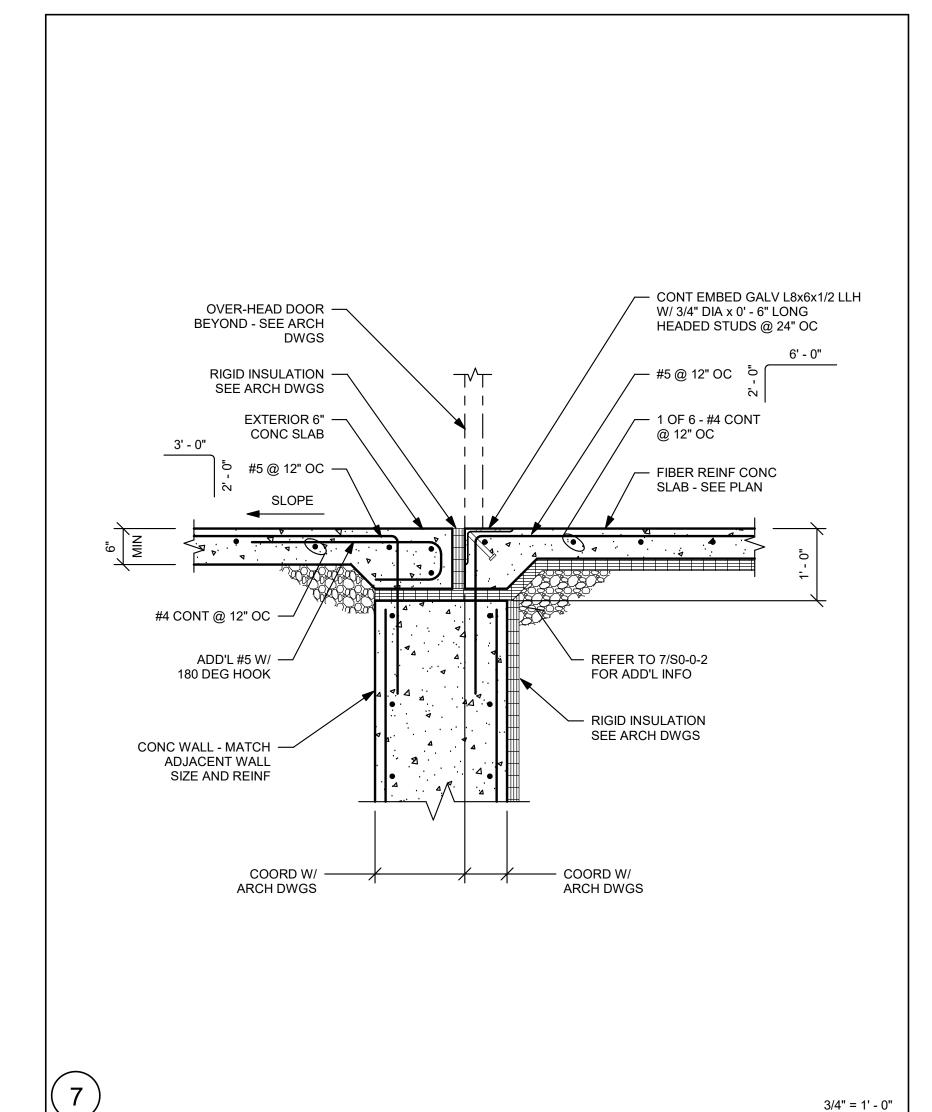


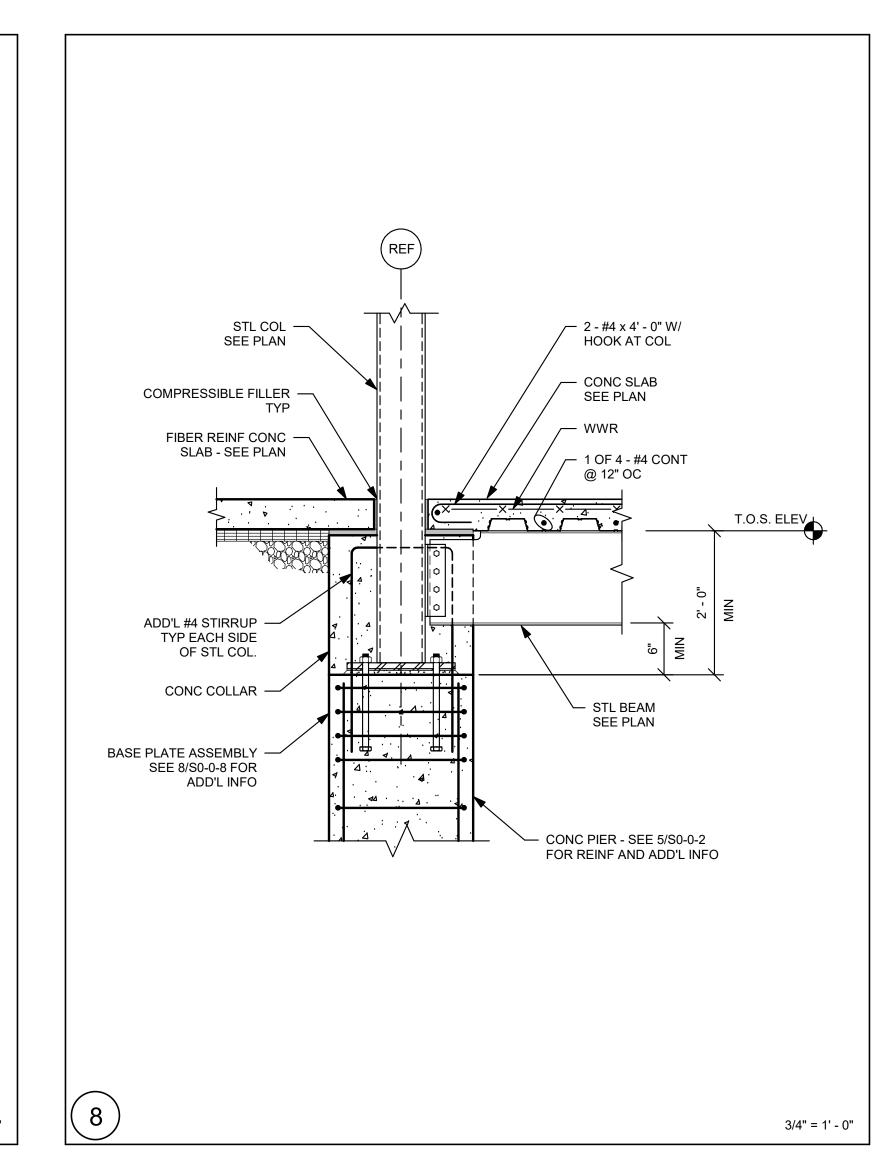


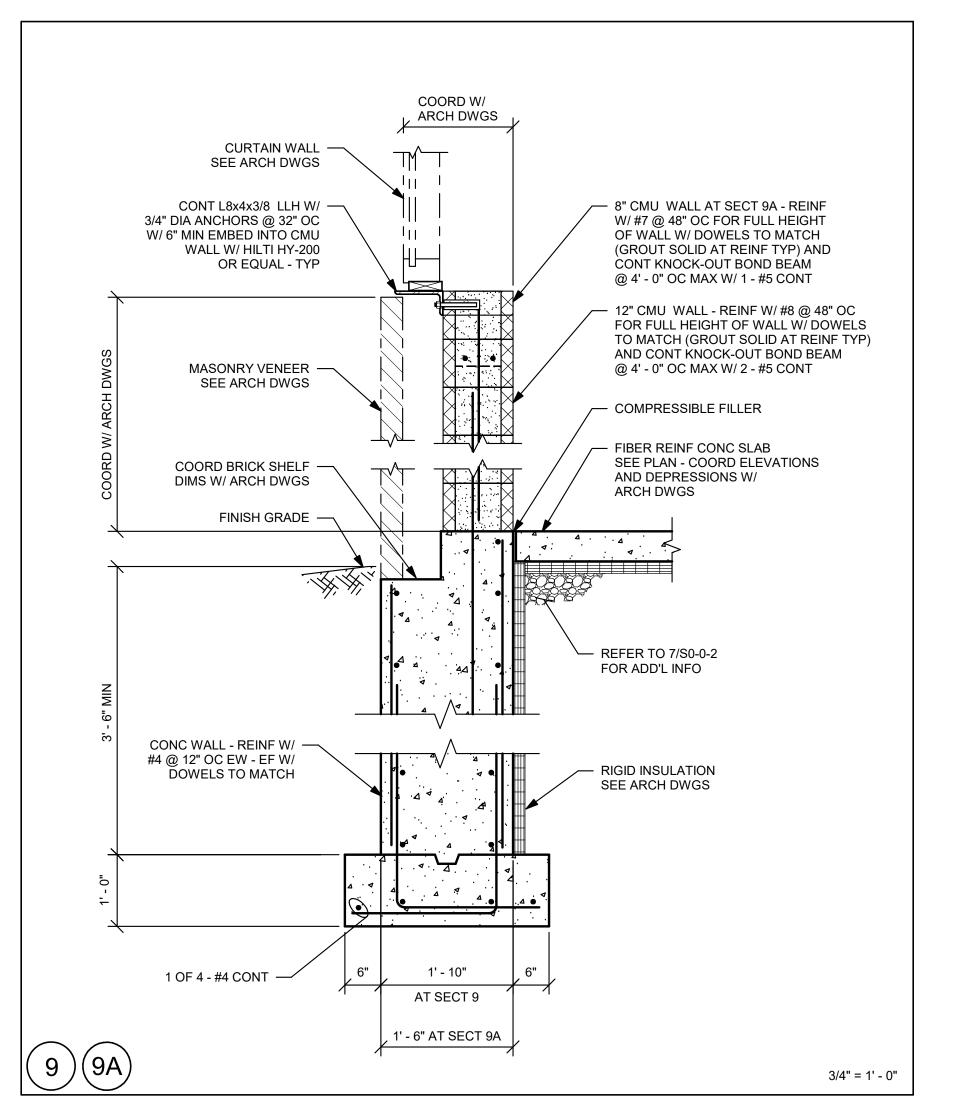




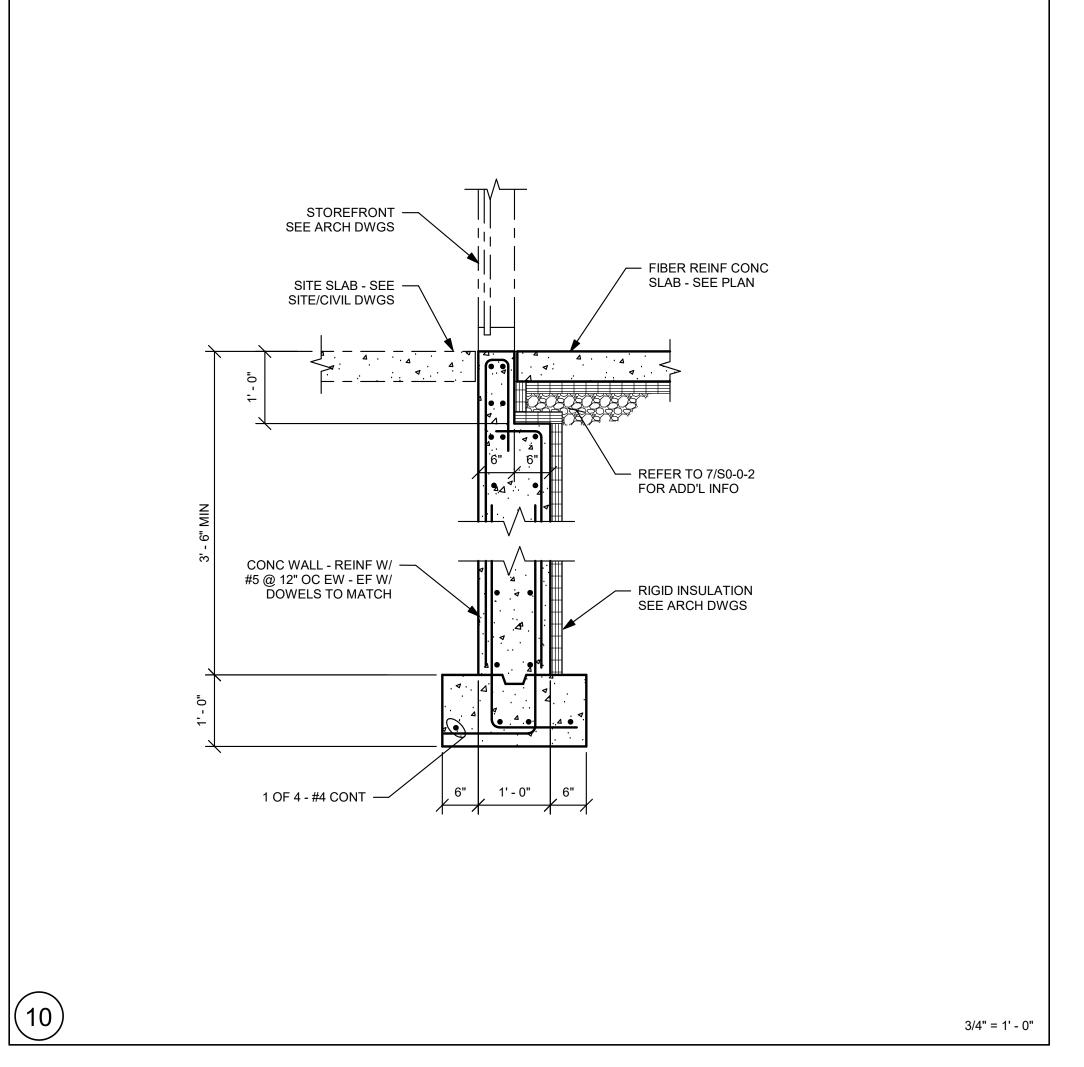


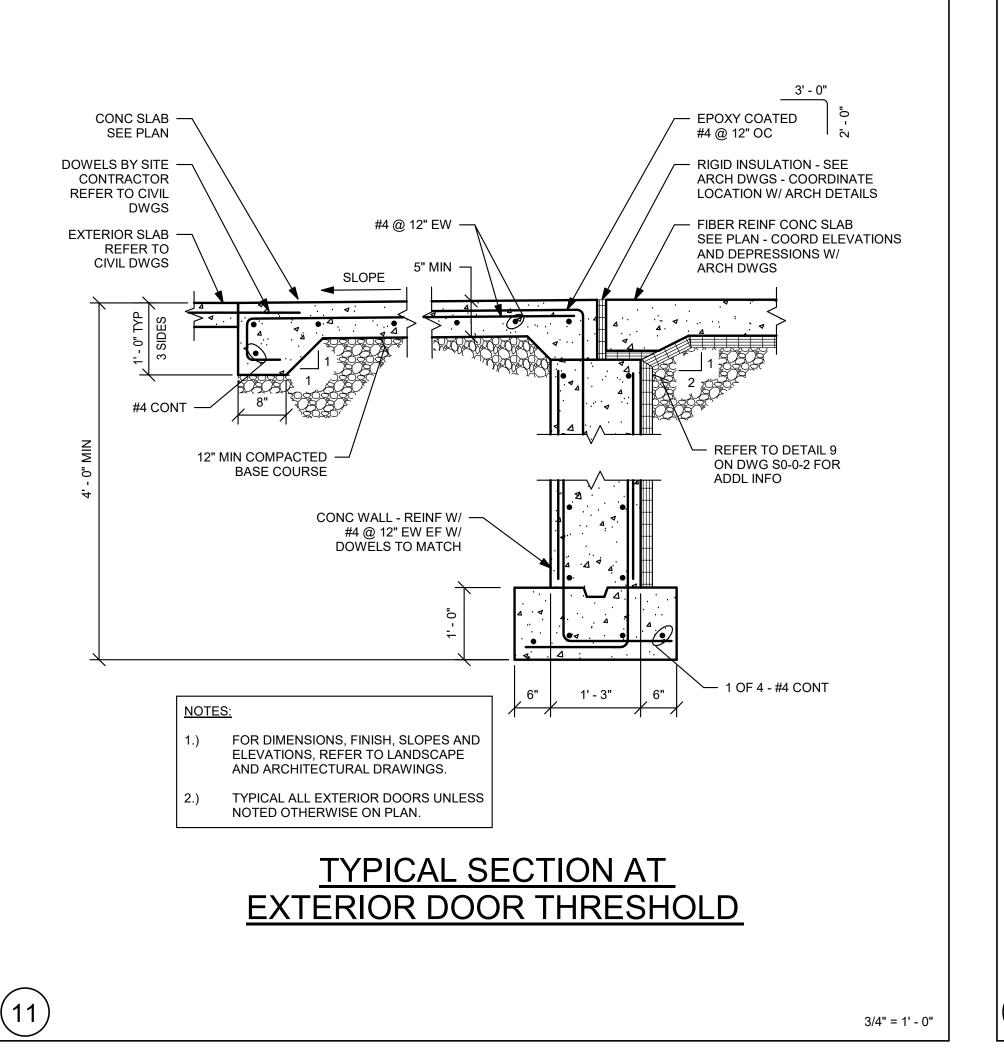


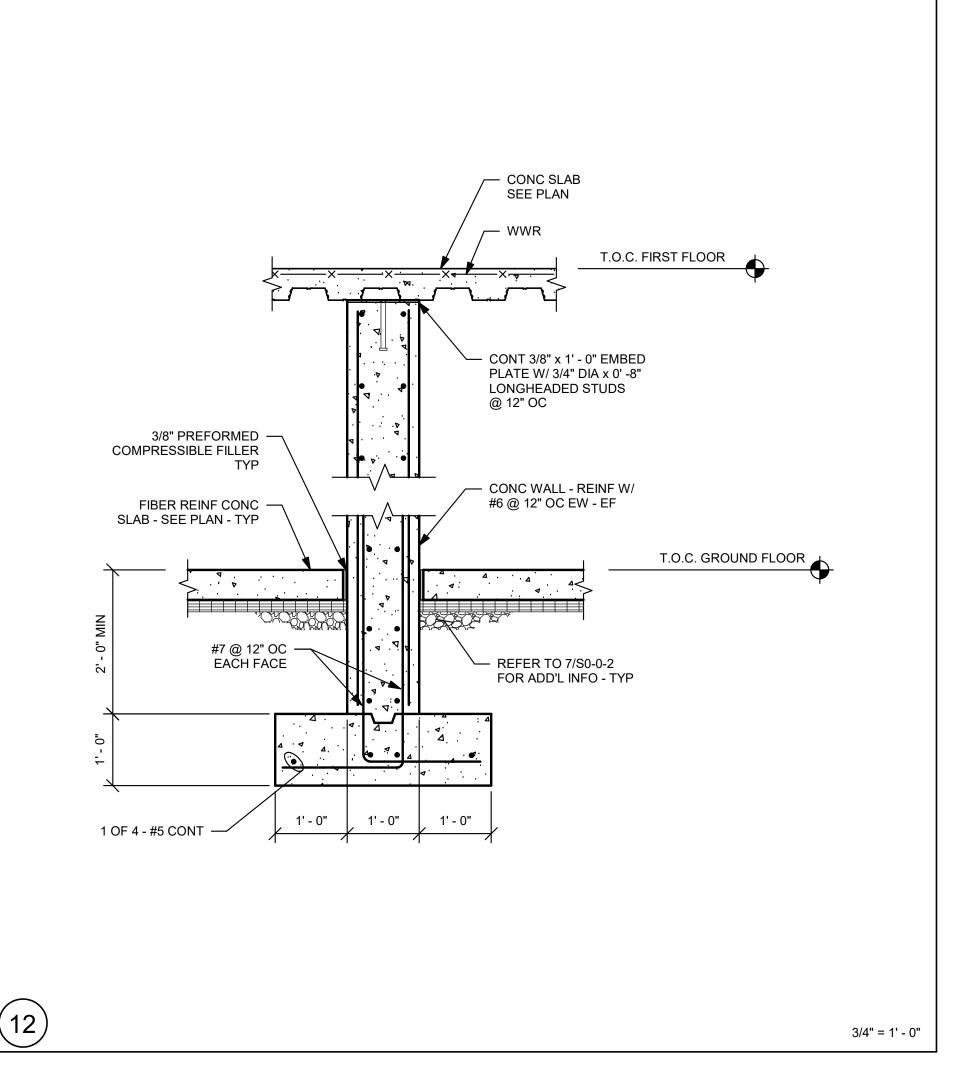




3/4" = 1' - 0'









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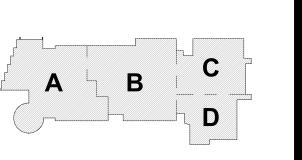
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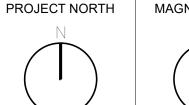
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> MSBA 60% CD Submission

> > 01/13/2023



CT NORTH MAGNETIC NORTH



SECTIONS

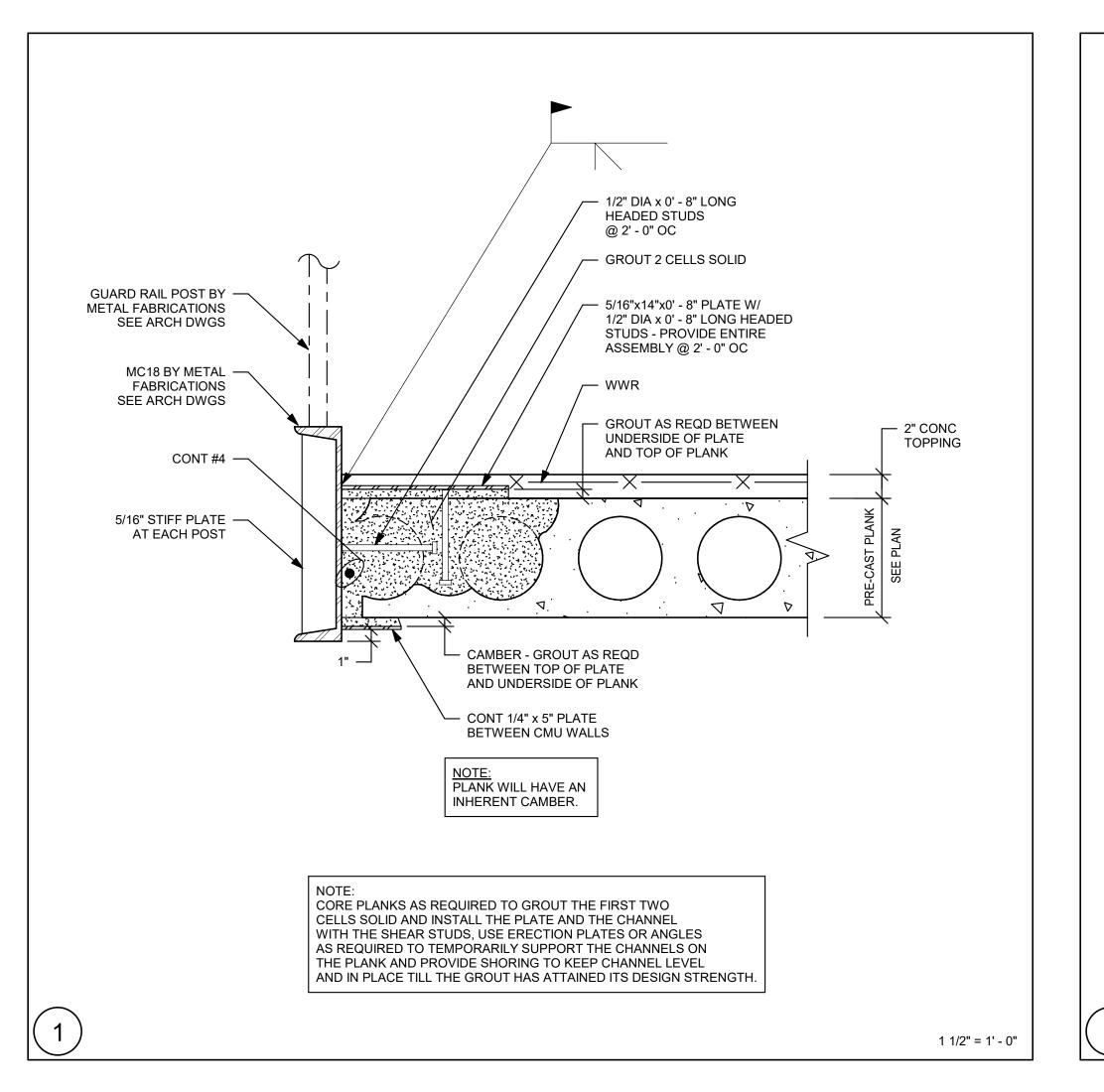
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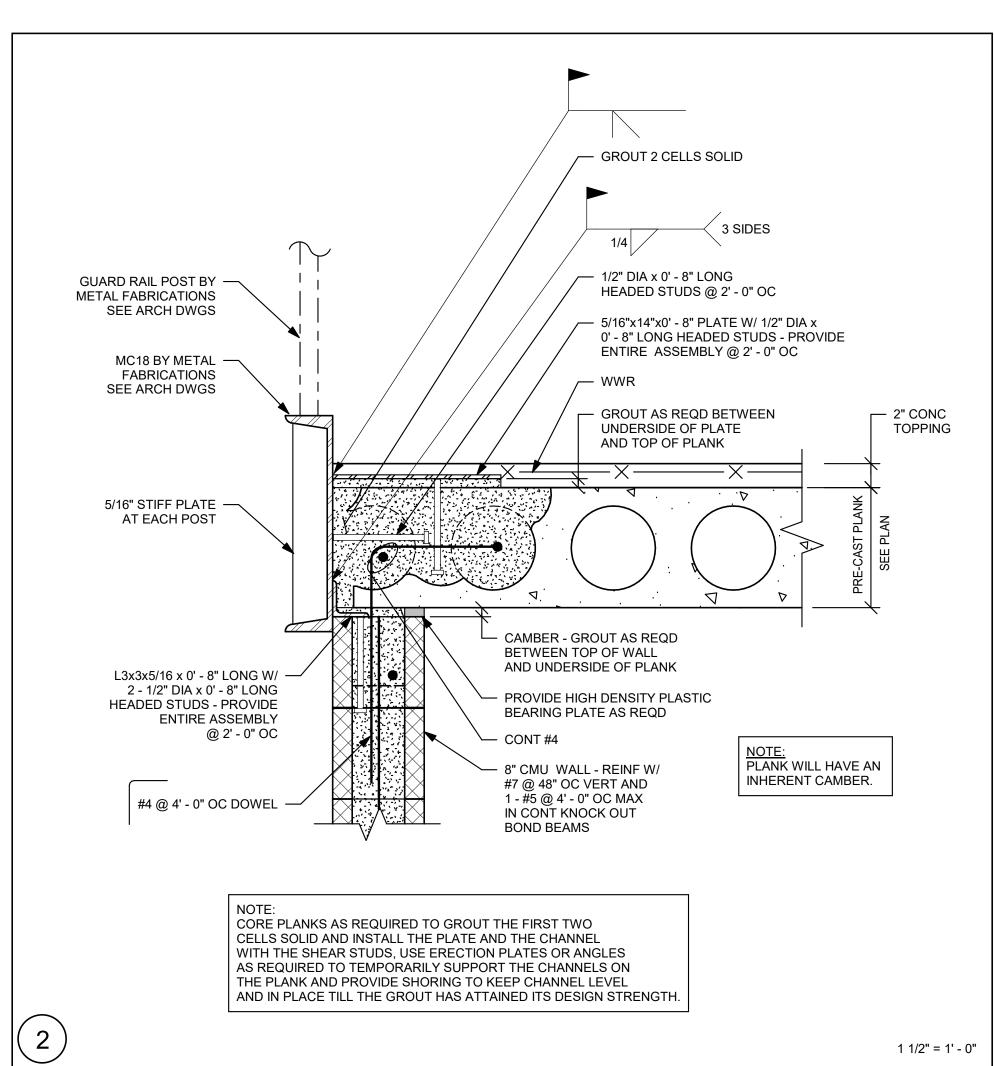
Job No.: 20202

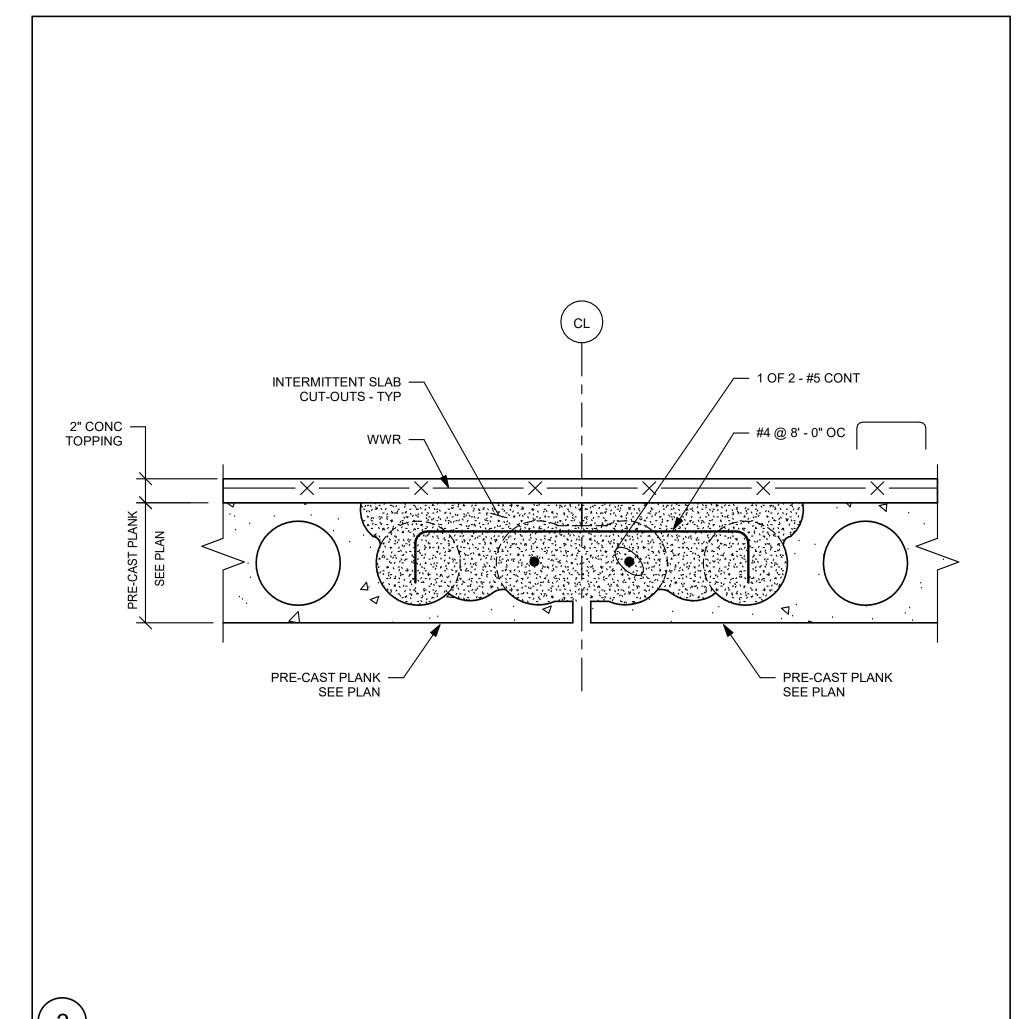
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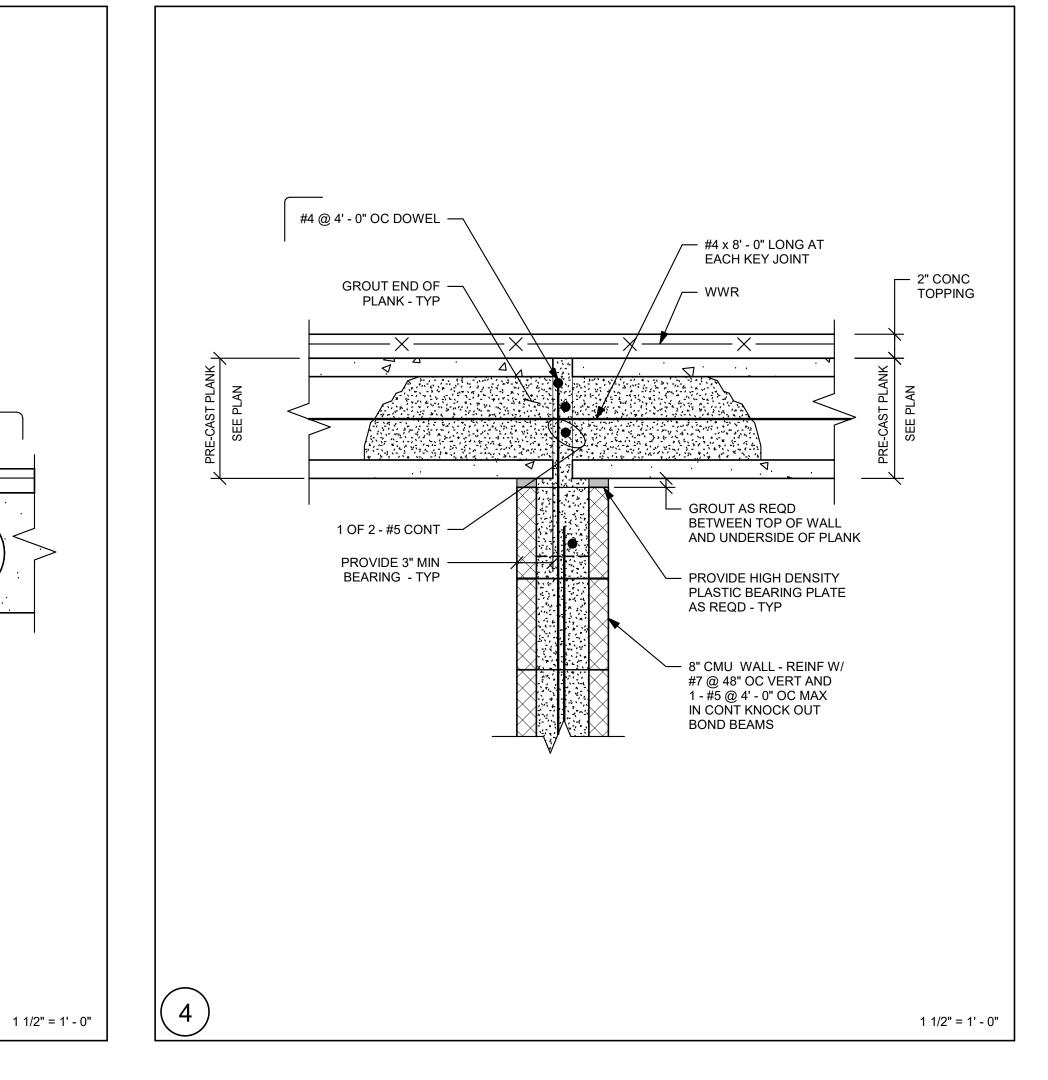
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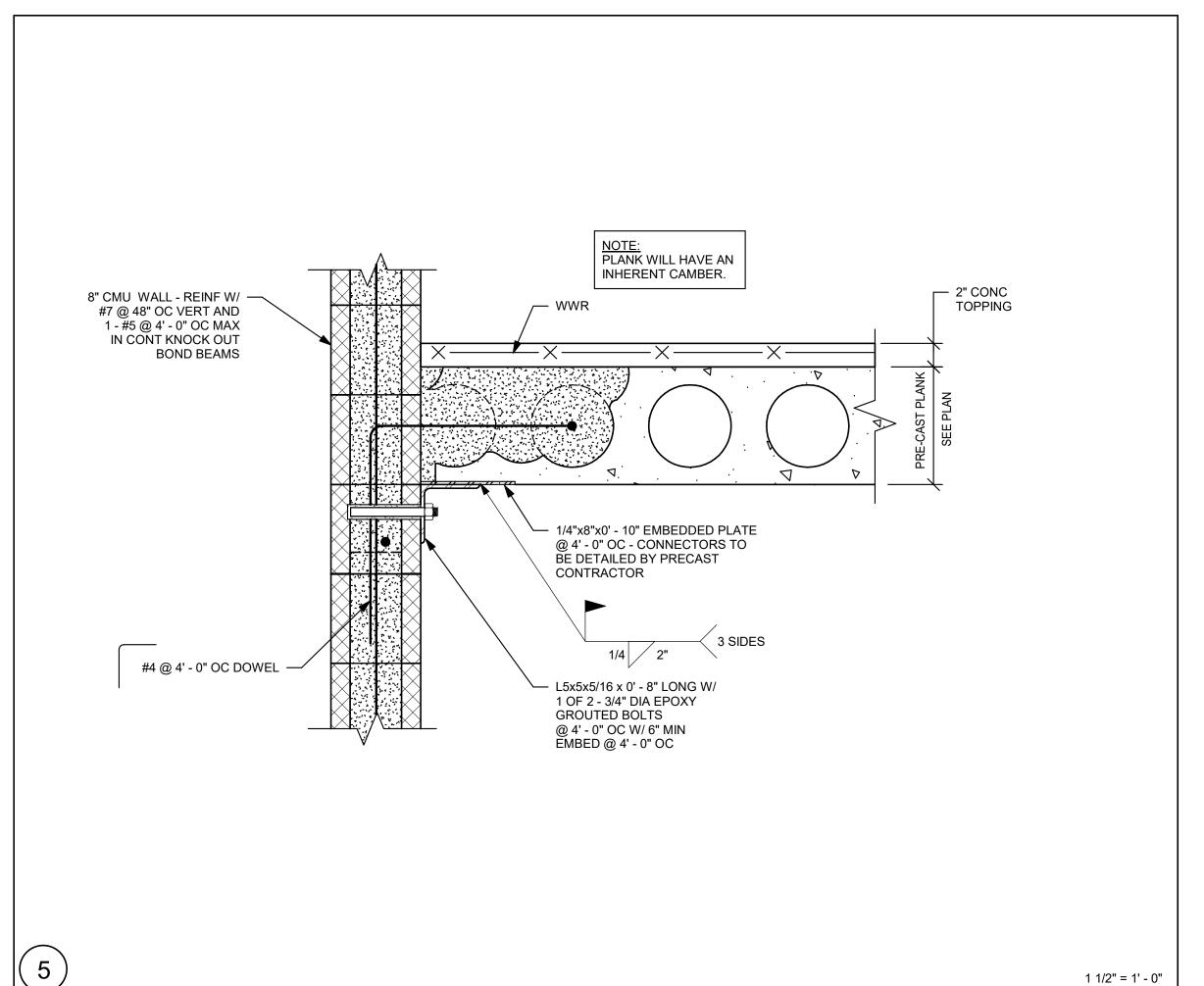
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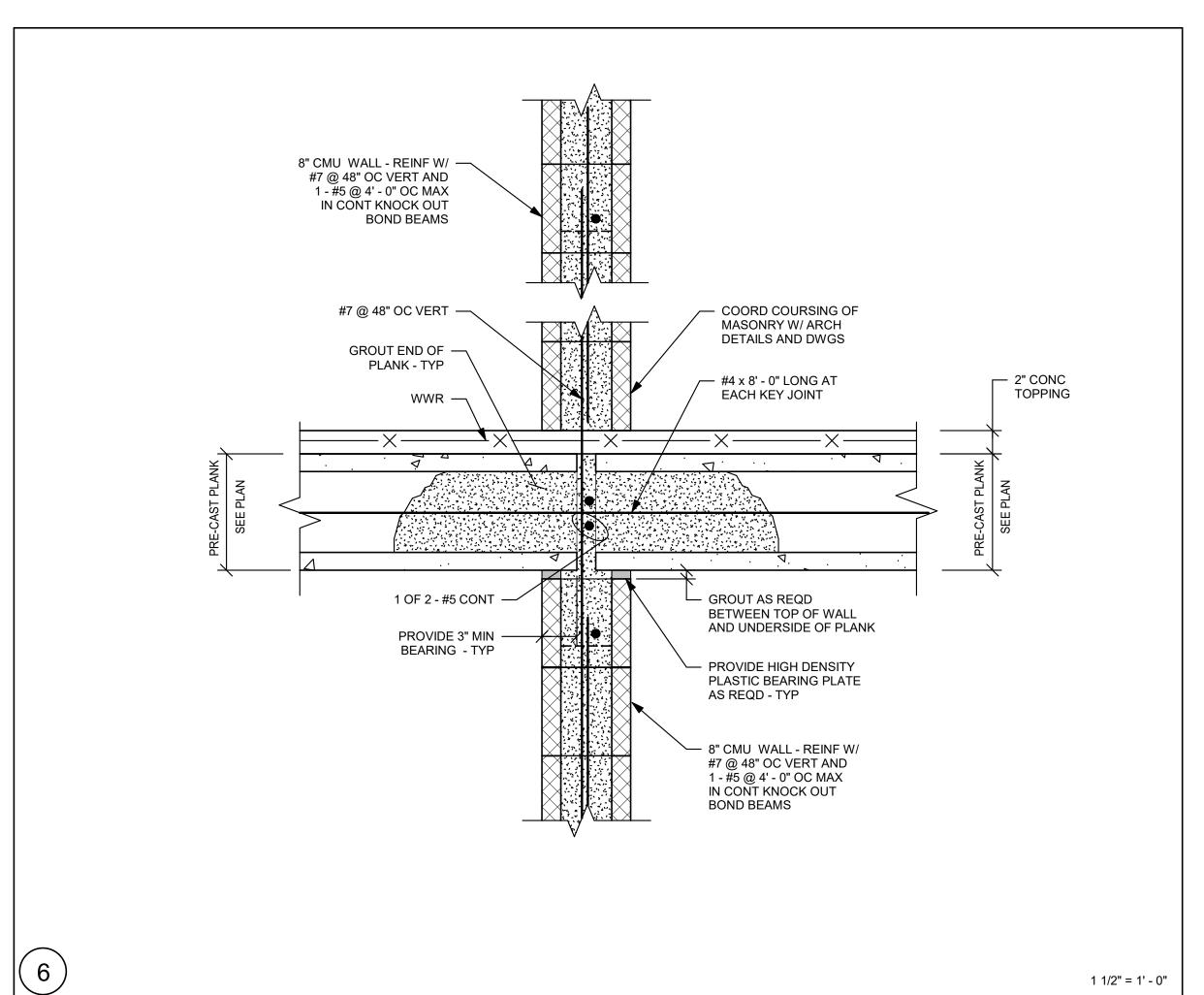


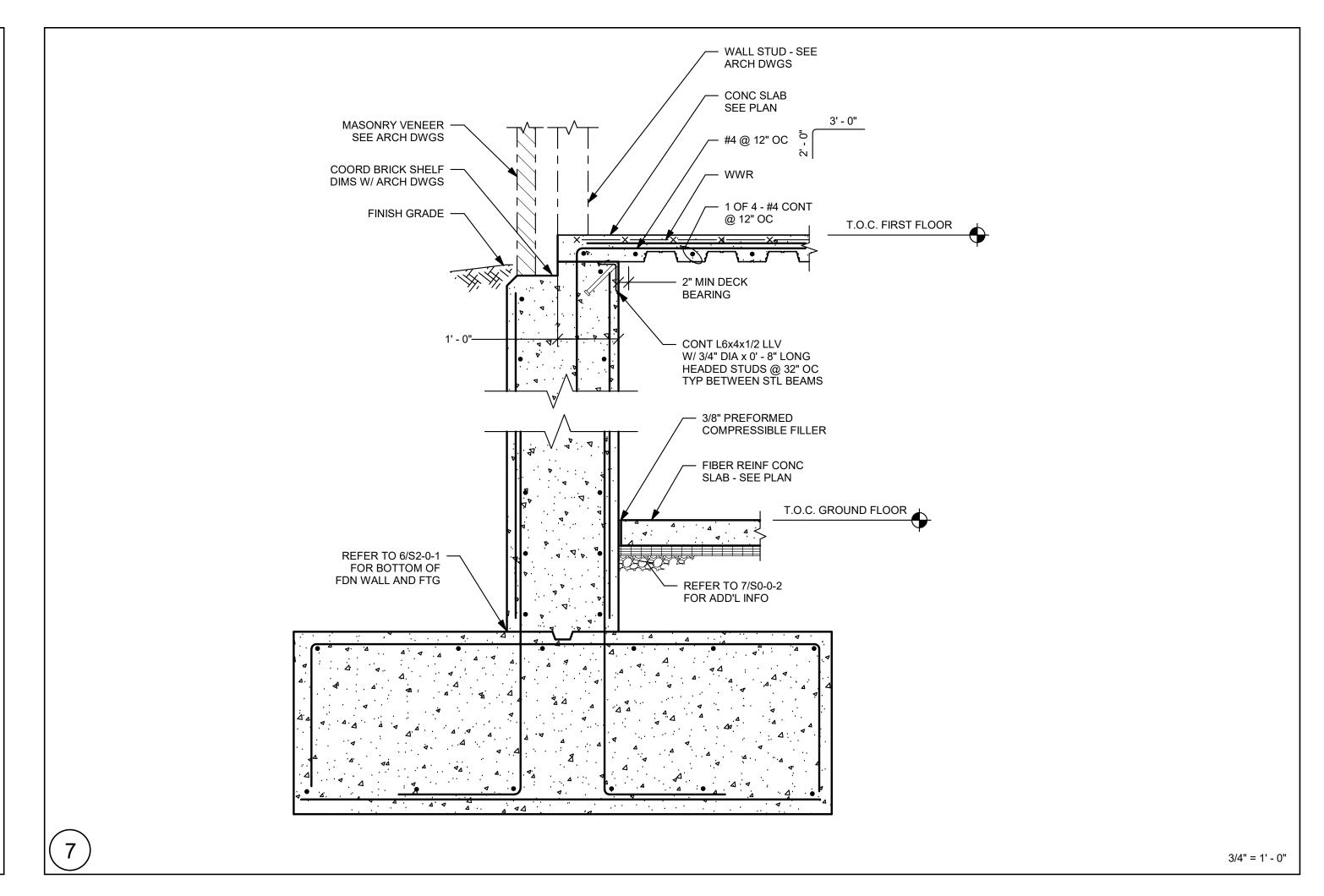


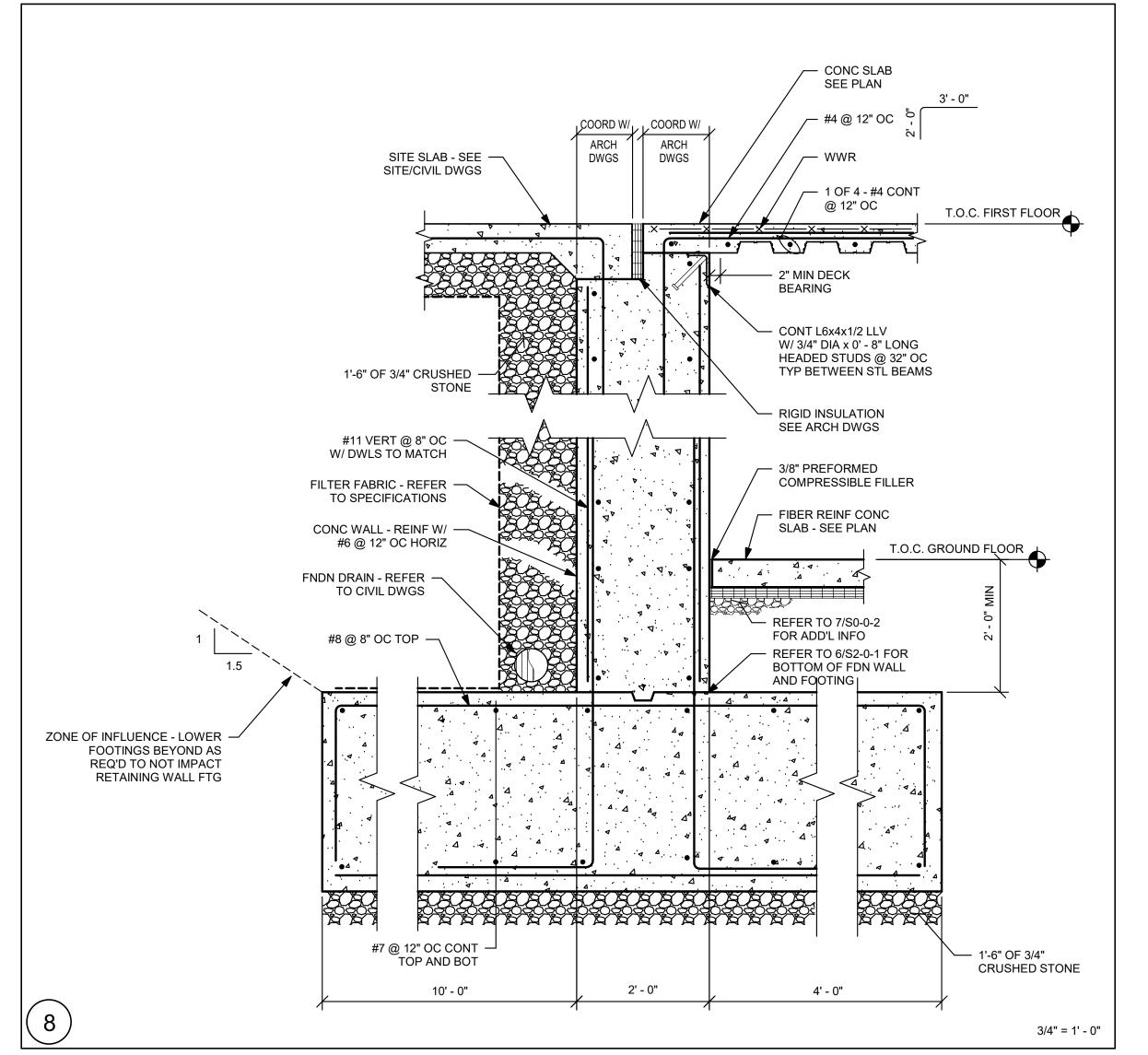


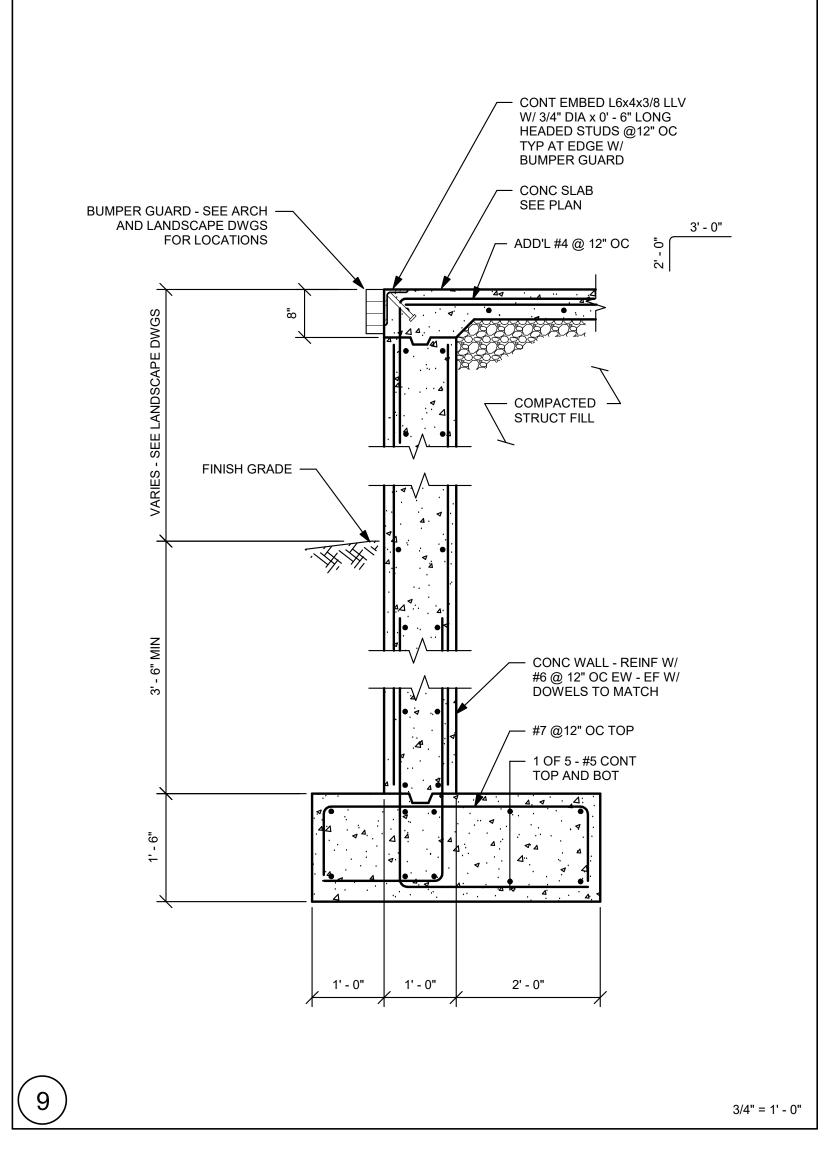


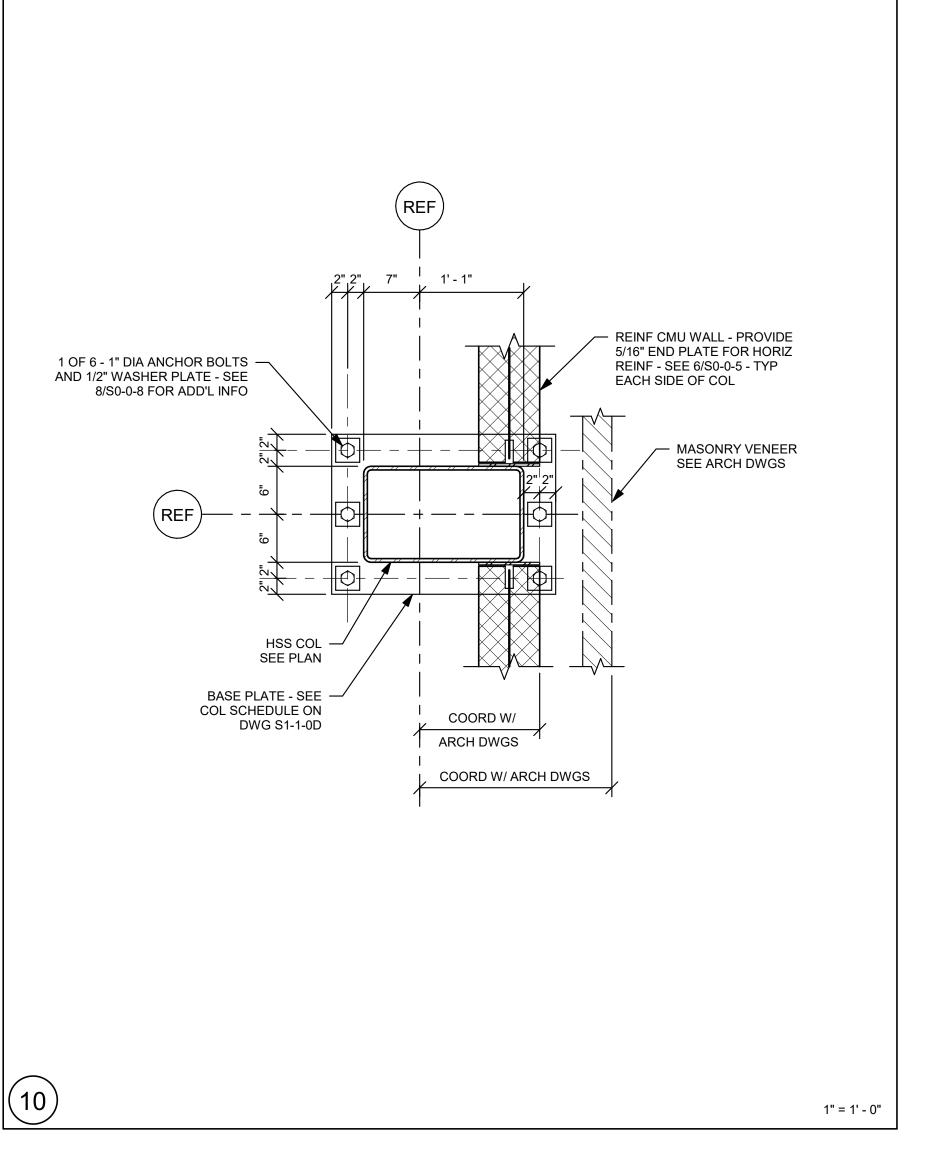
















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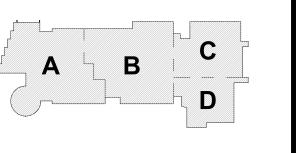
NORTHEAST METRO TECH

100 Hemlock Rd, Wakefield, MA 01880

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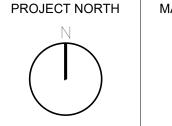
> MSBA 60% CD Submission

> > 01/13/2023



KEY PLAN

CCT NORTH MAGNETIC NORTH



SECTIONS

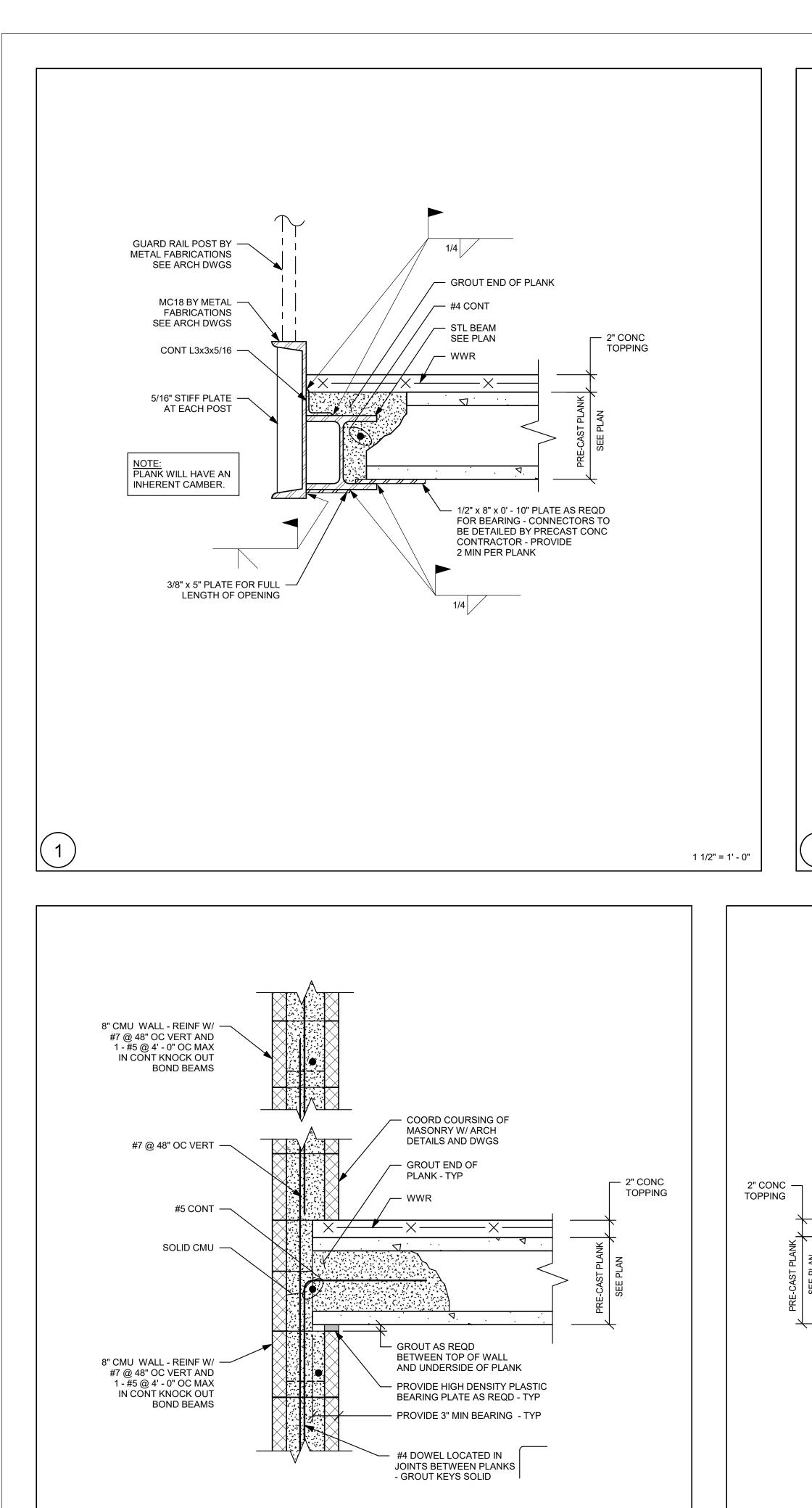
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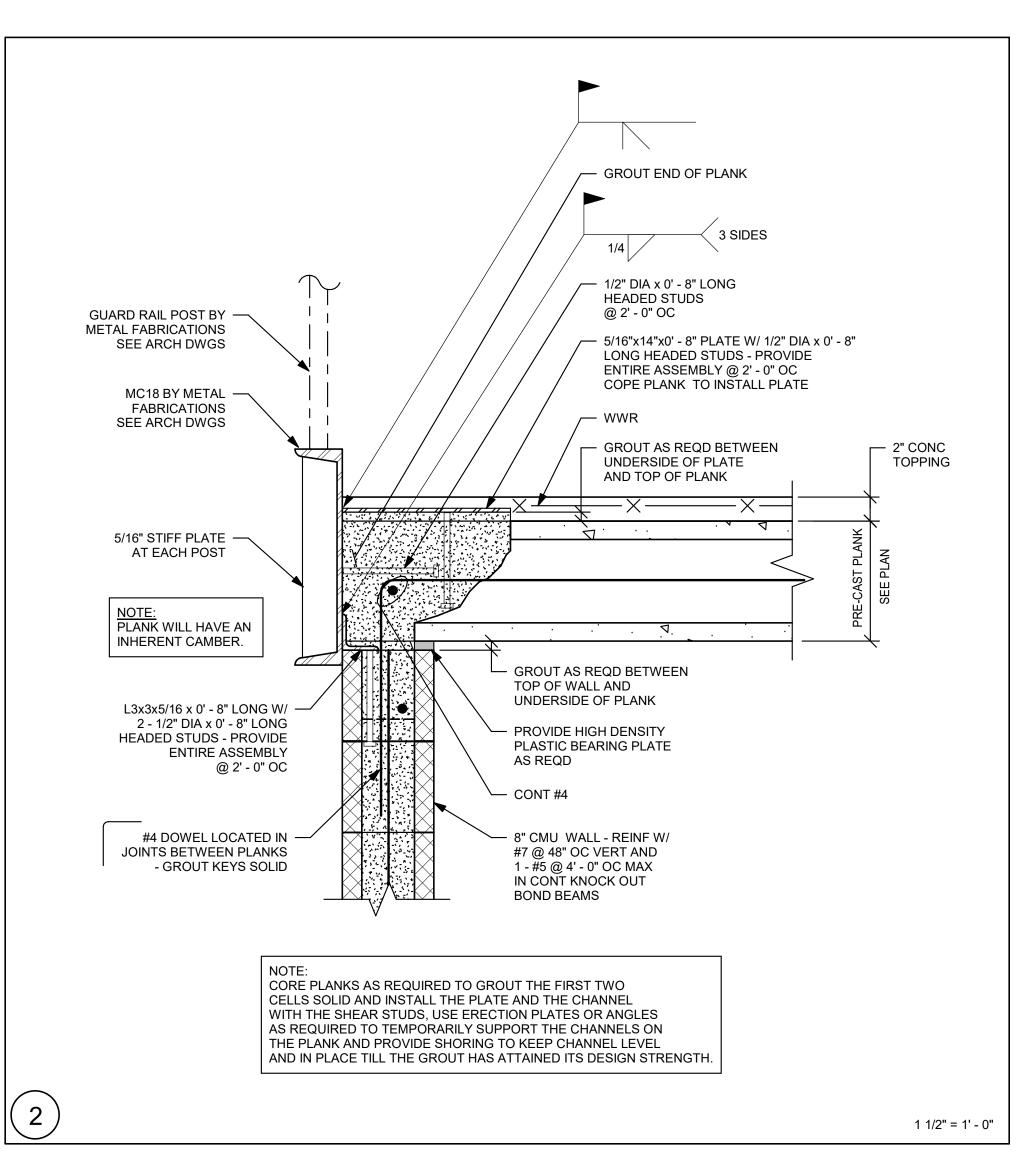
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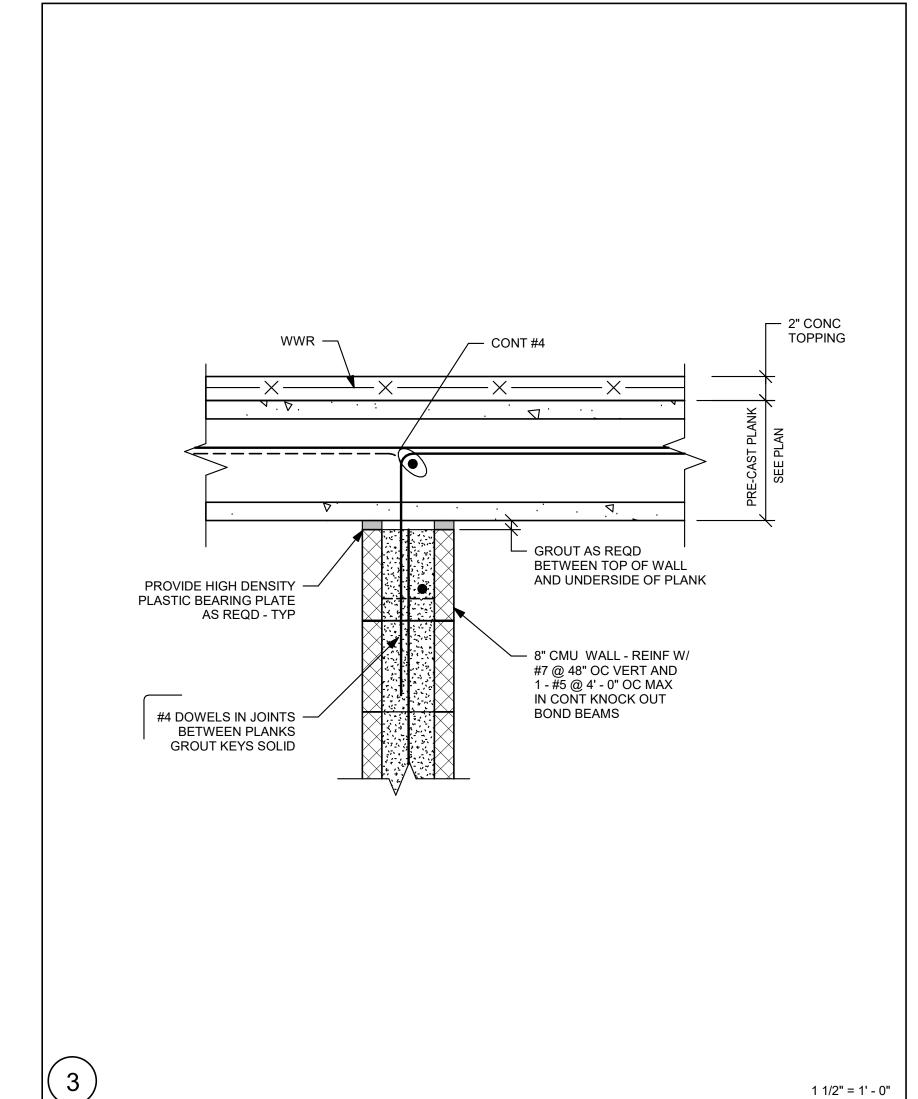
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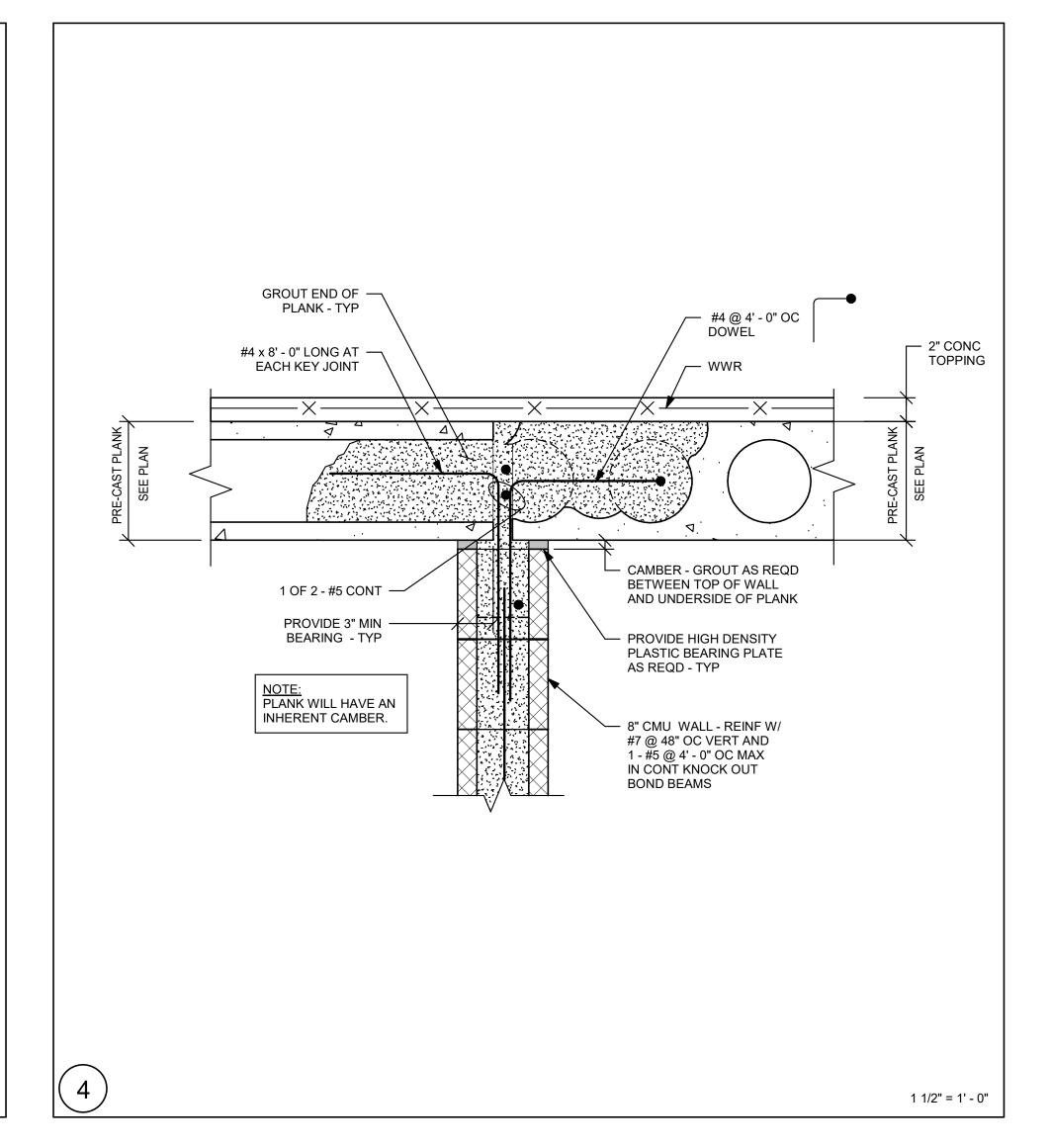
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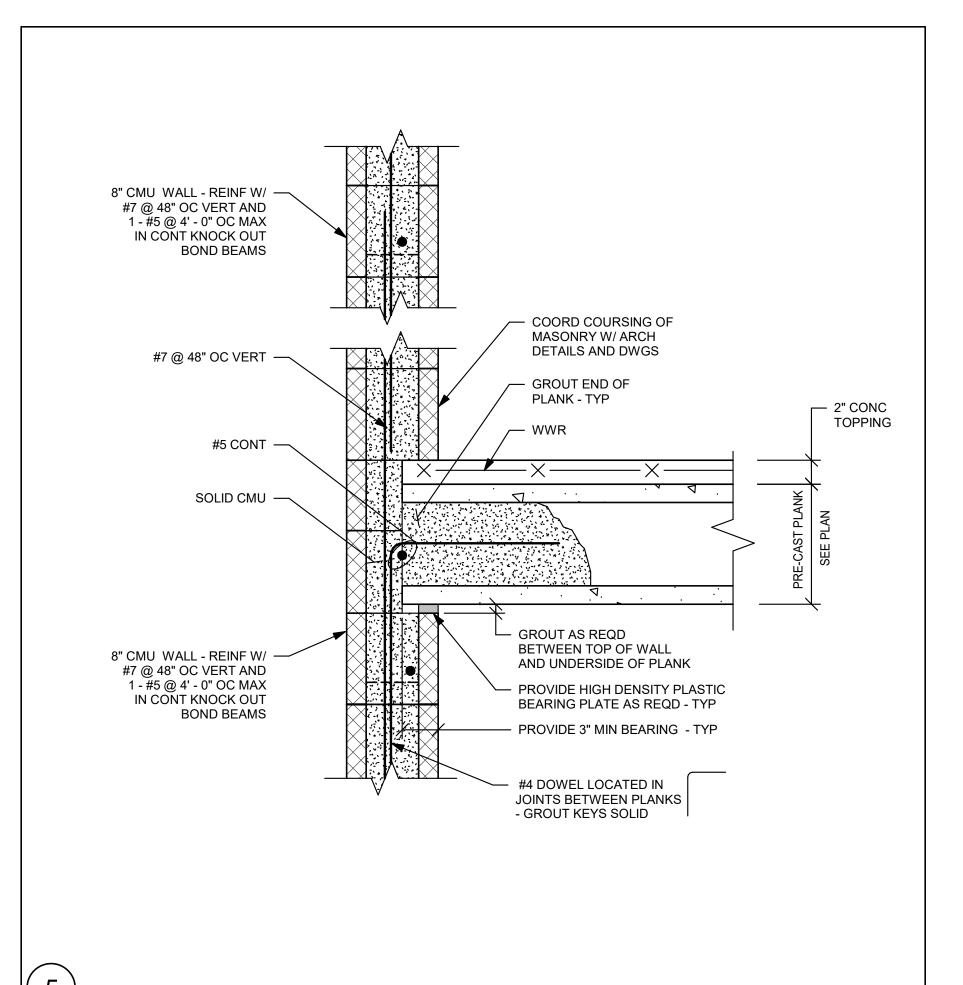
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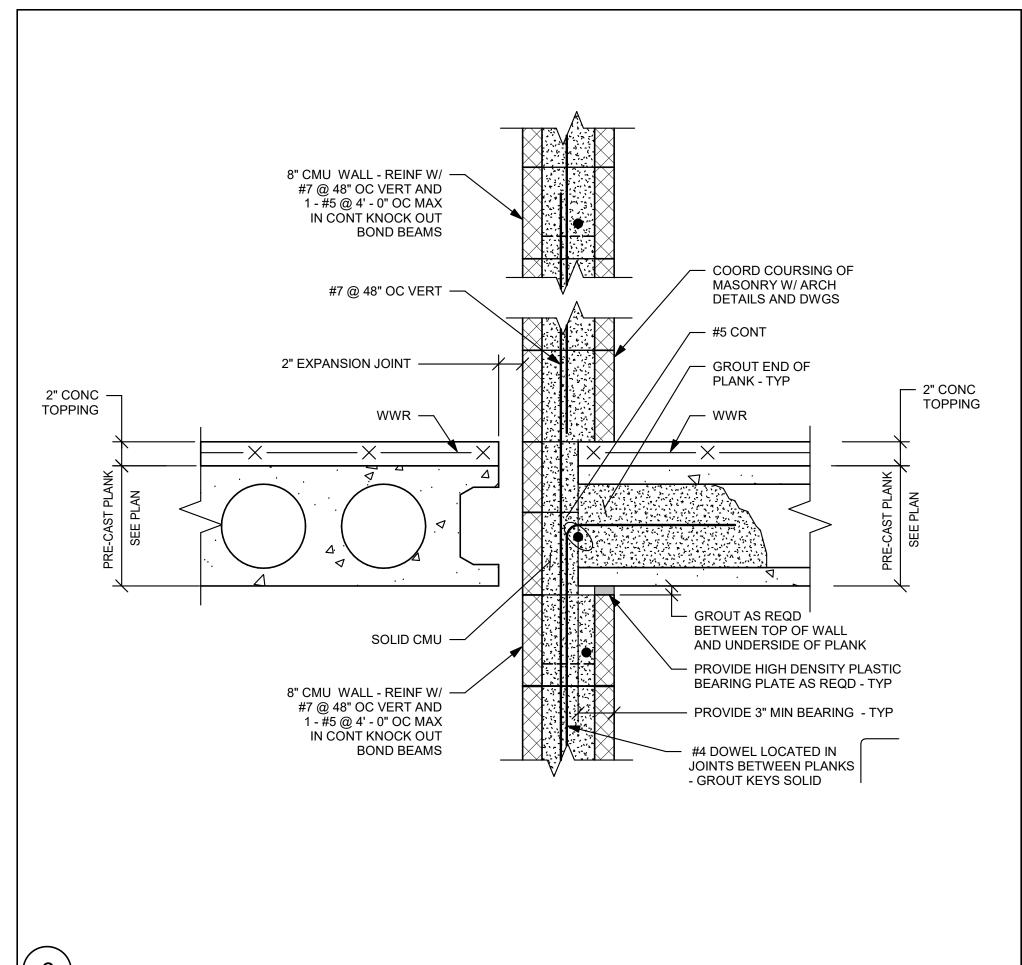




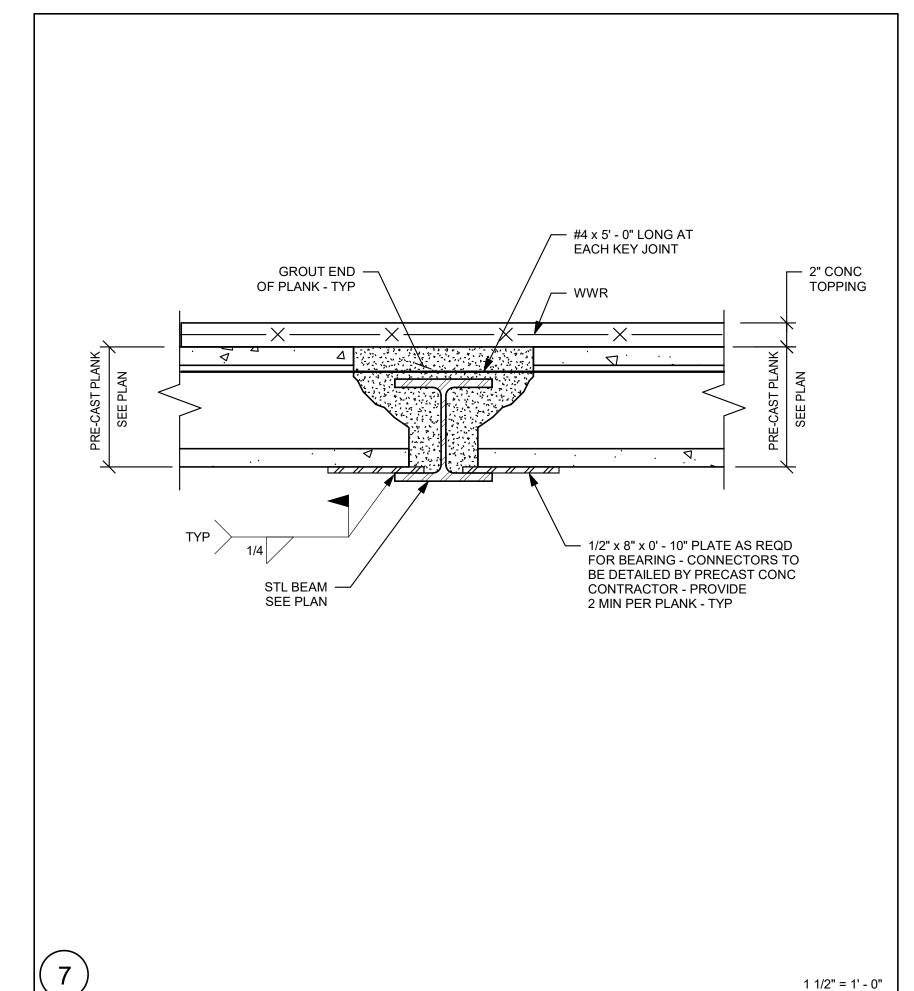


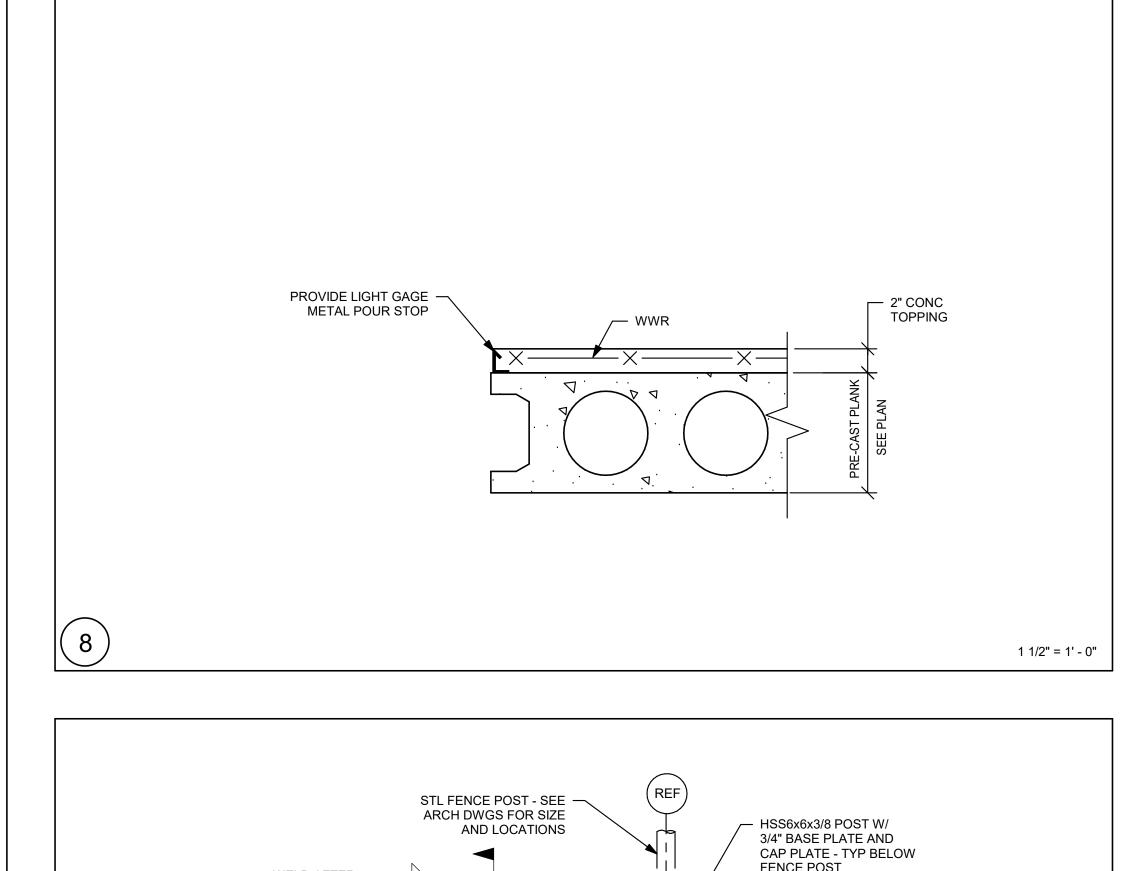


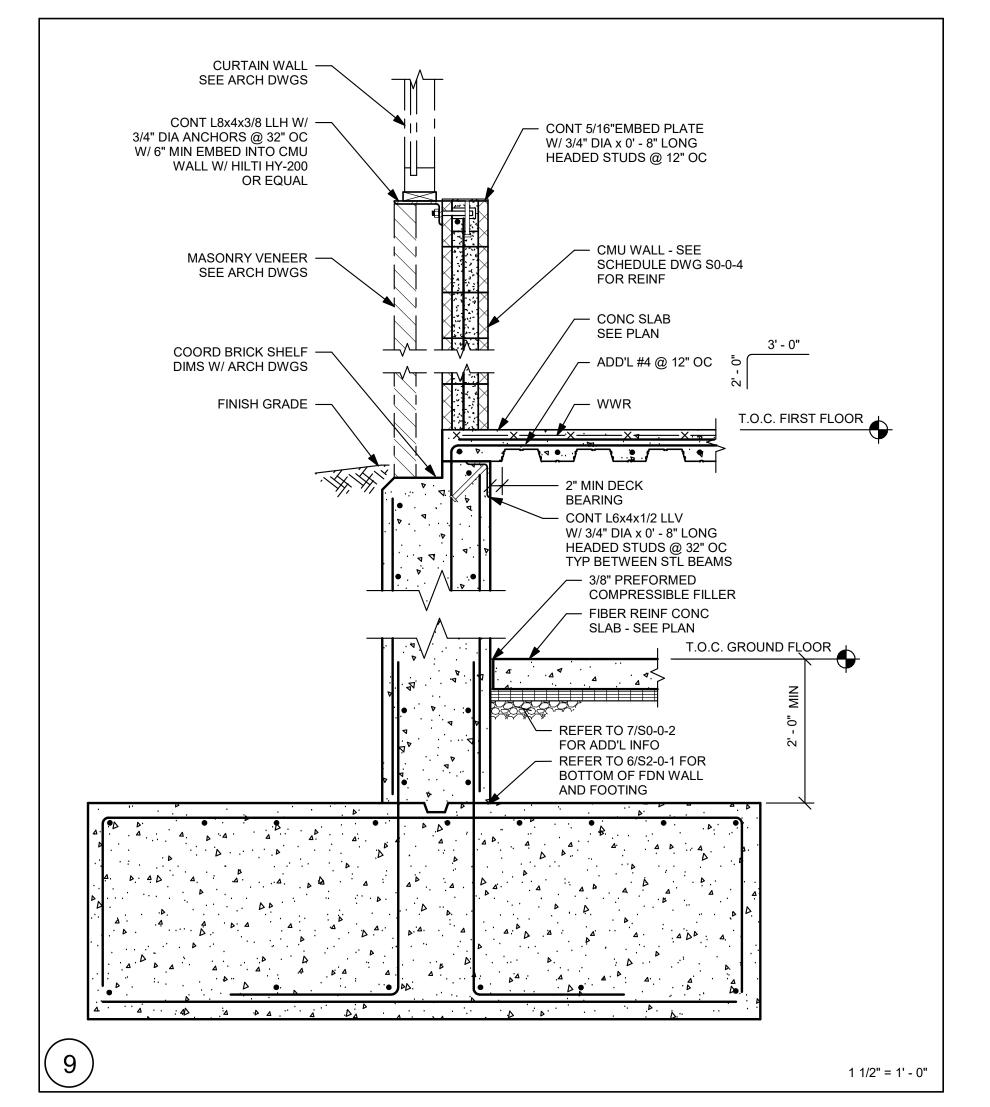
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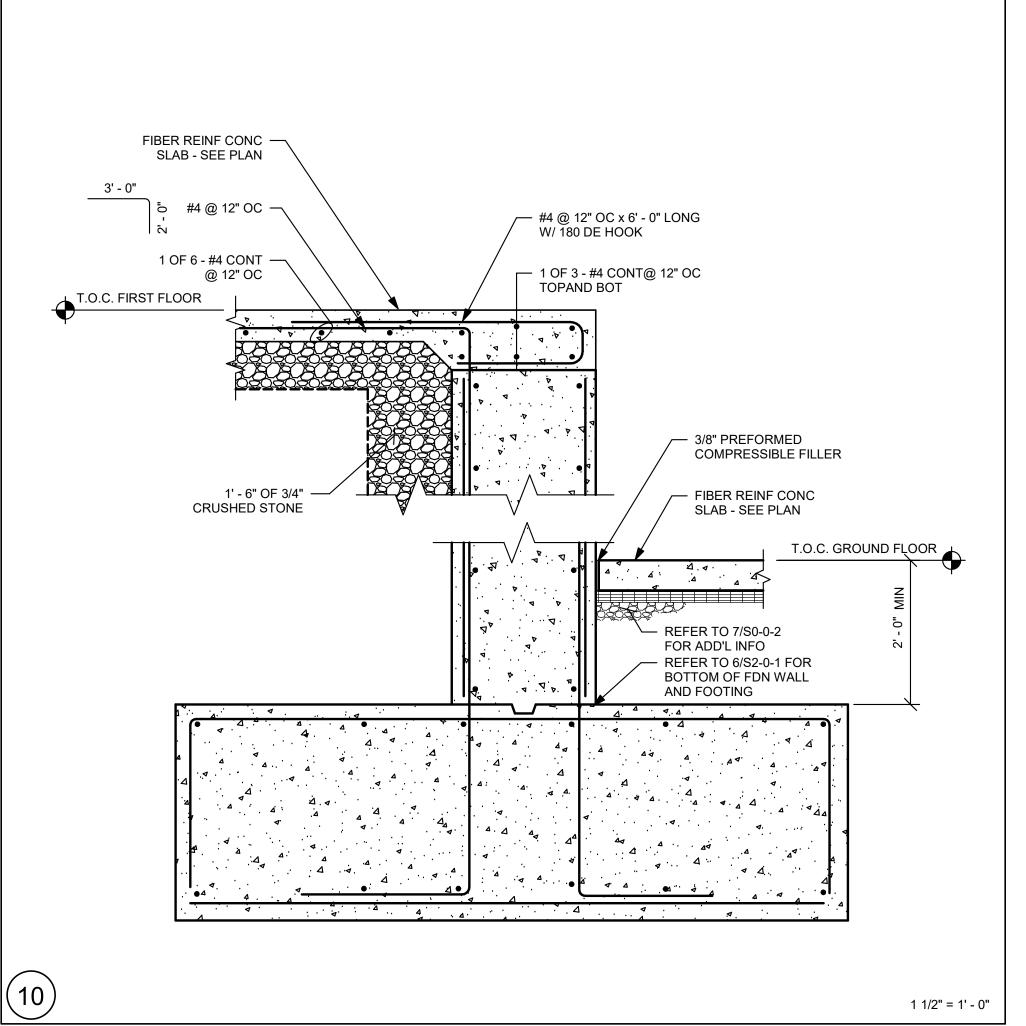


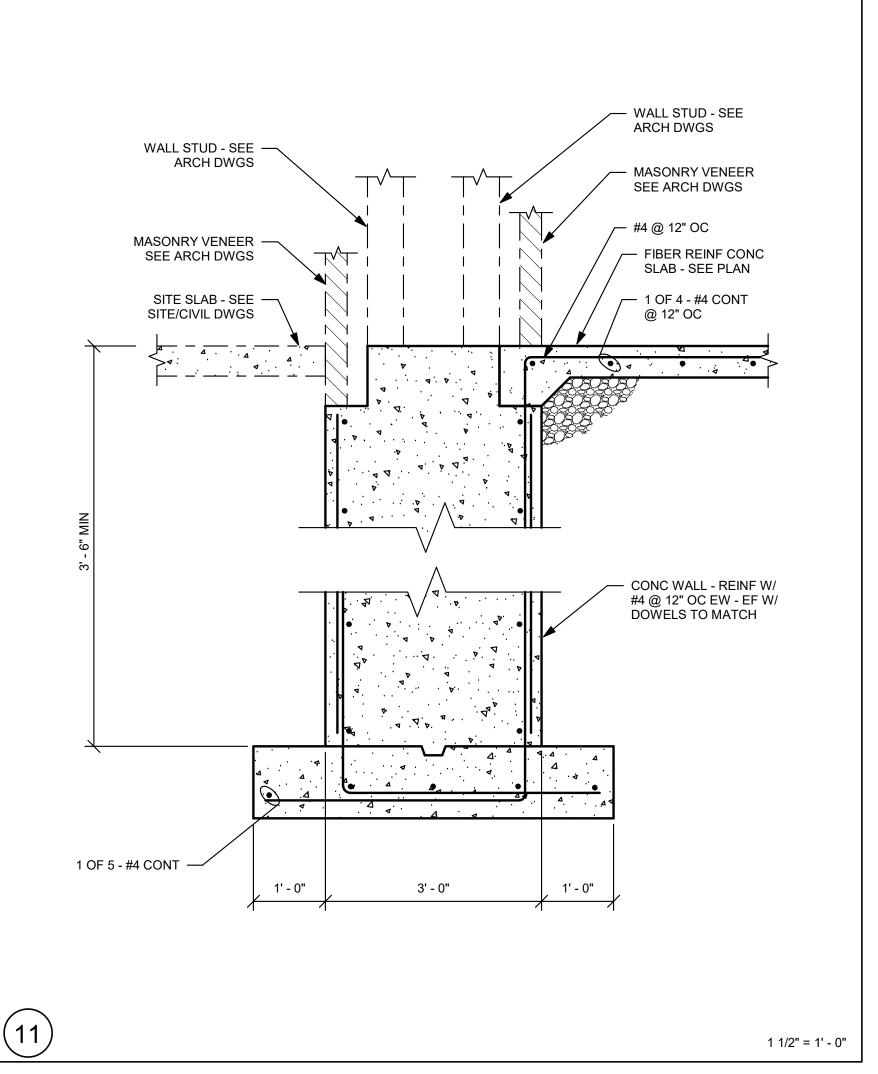
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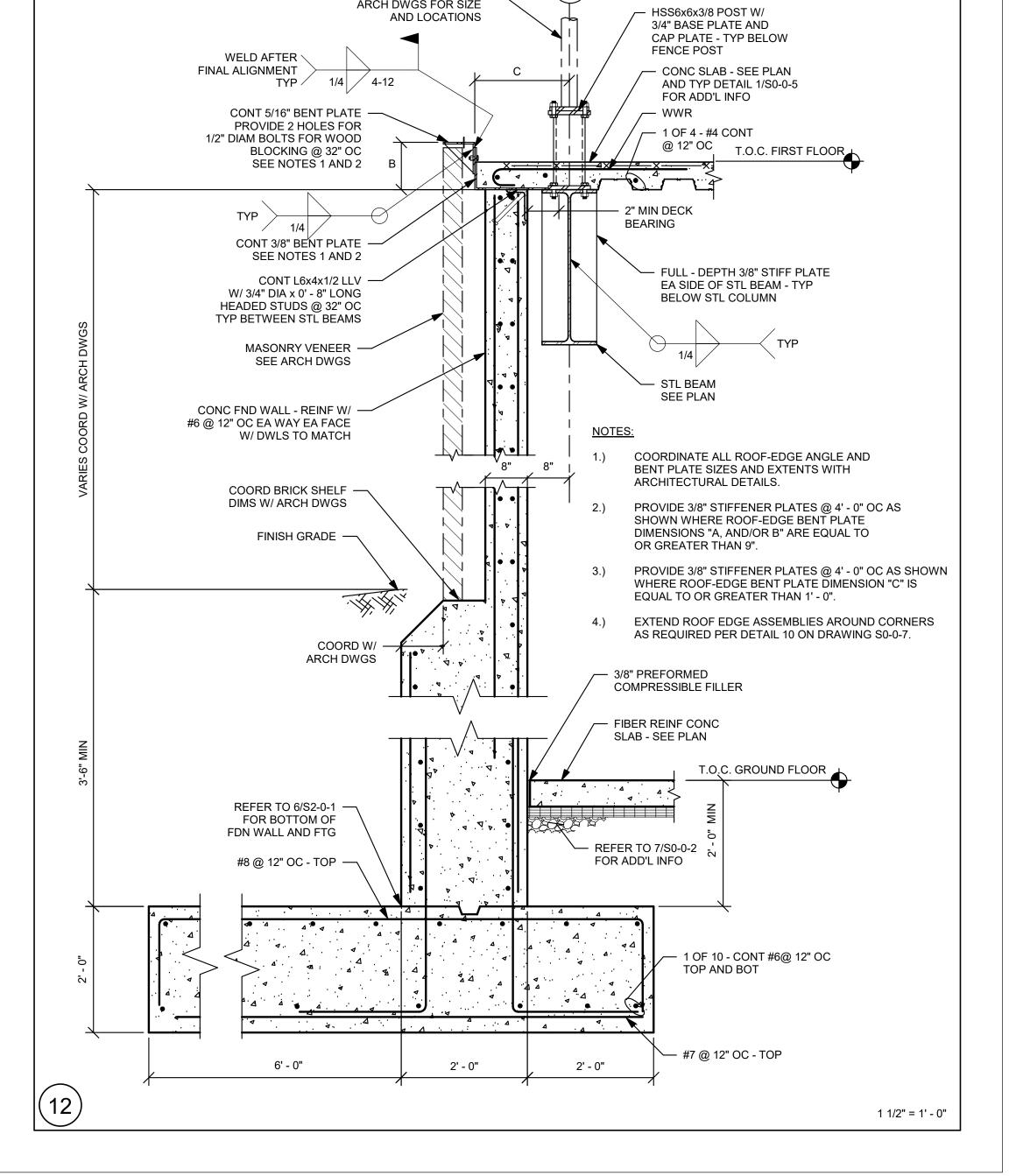














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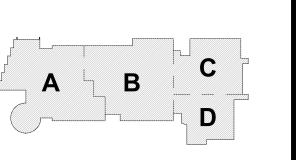
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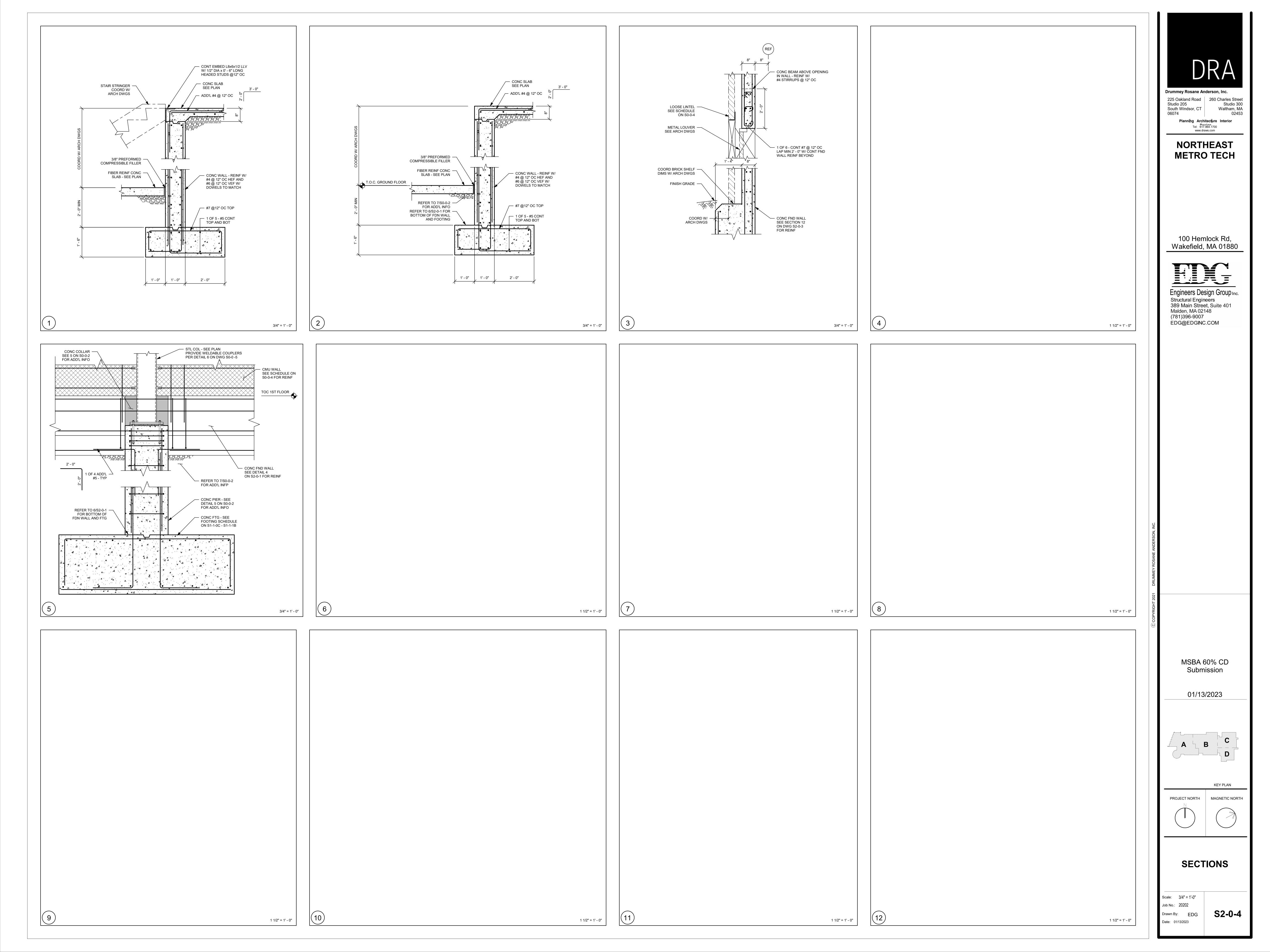
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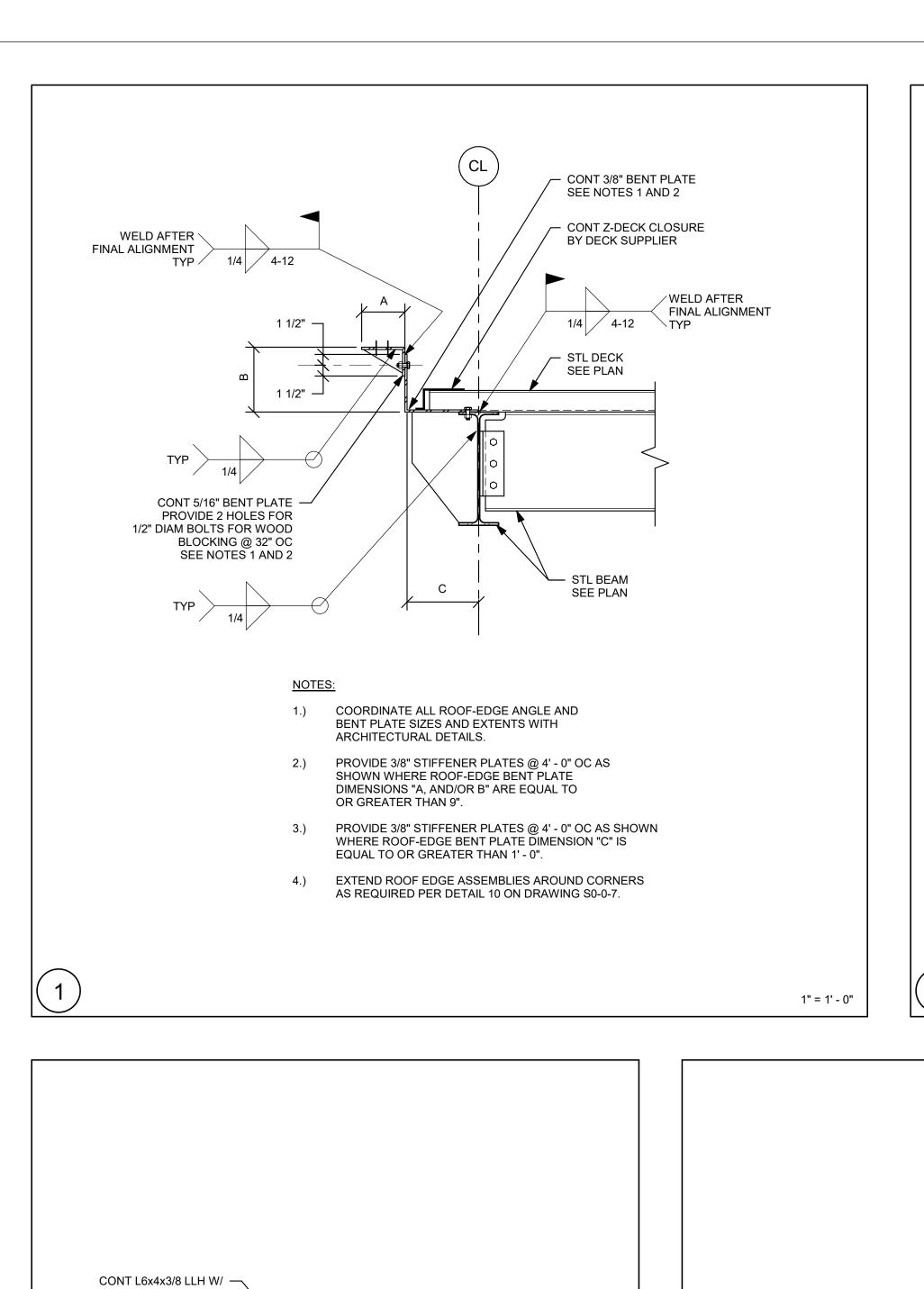
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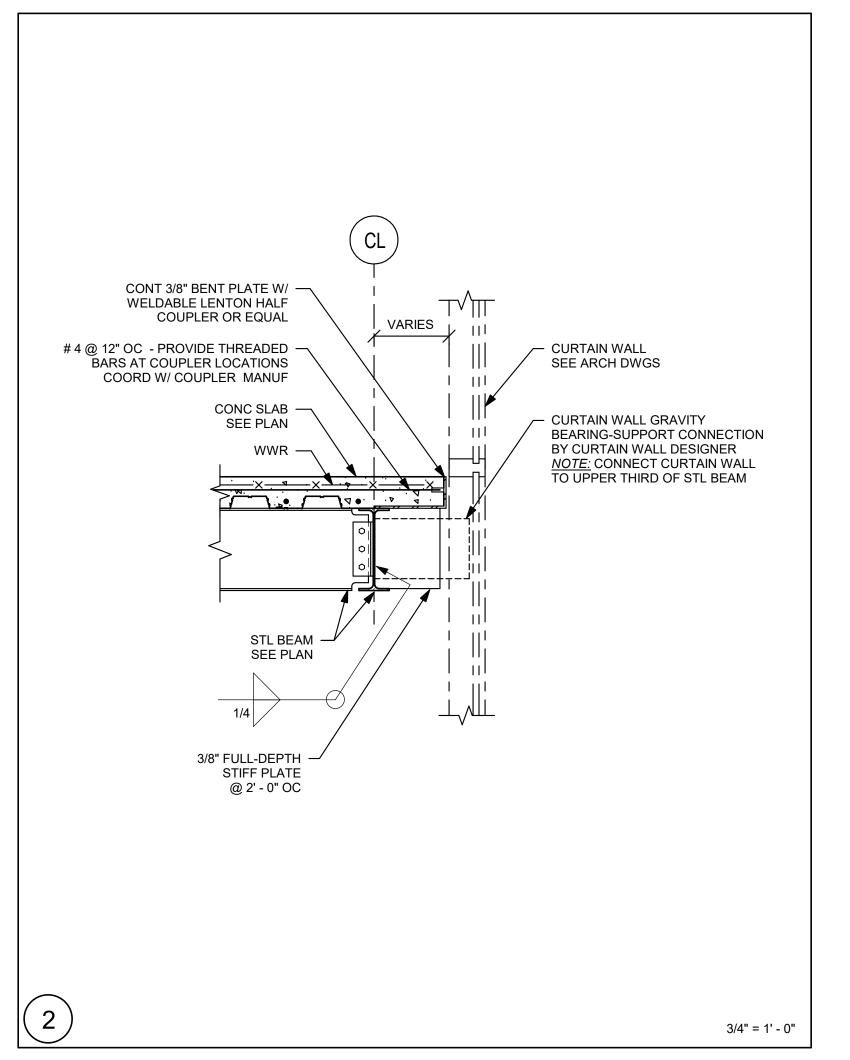
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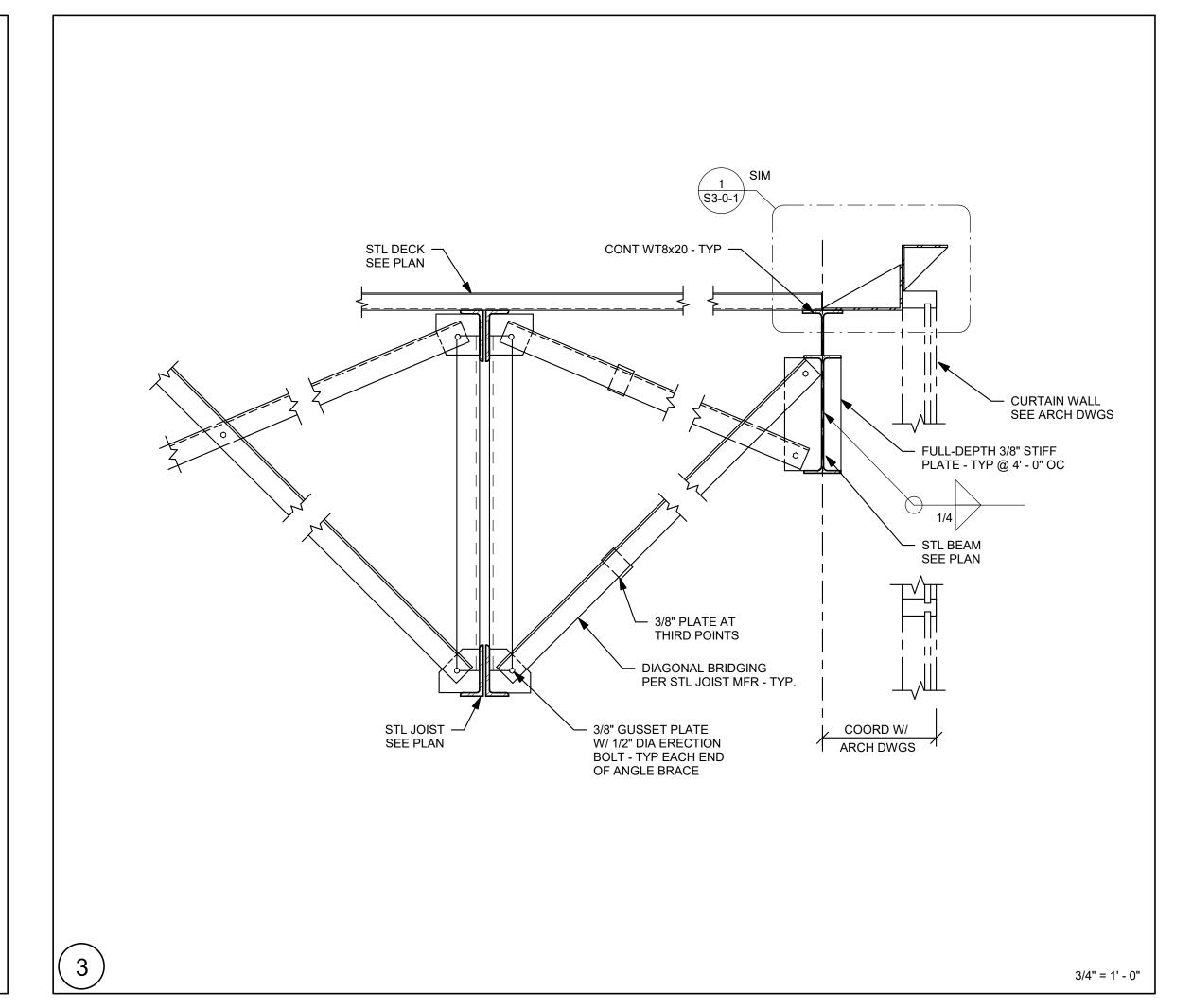
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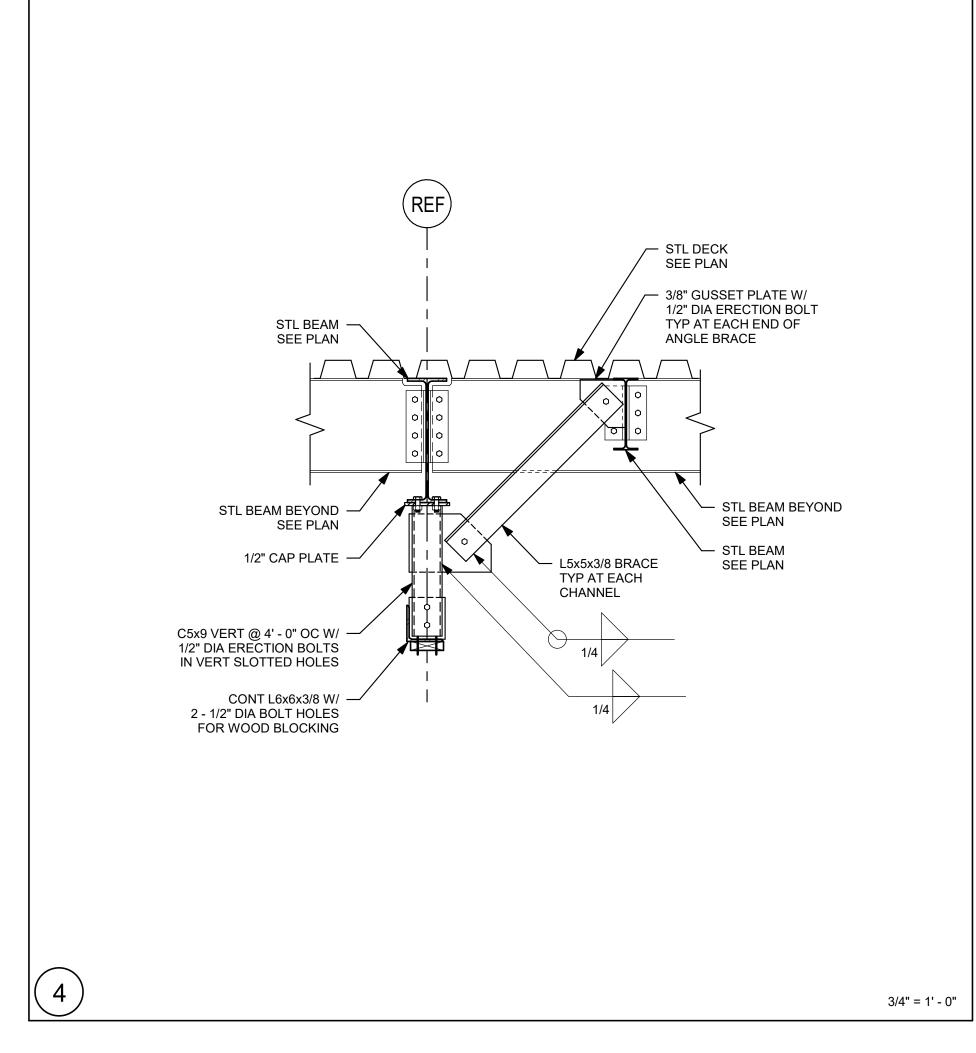
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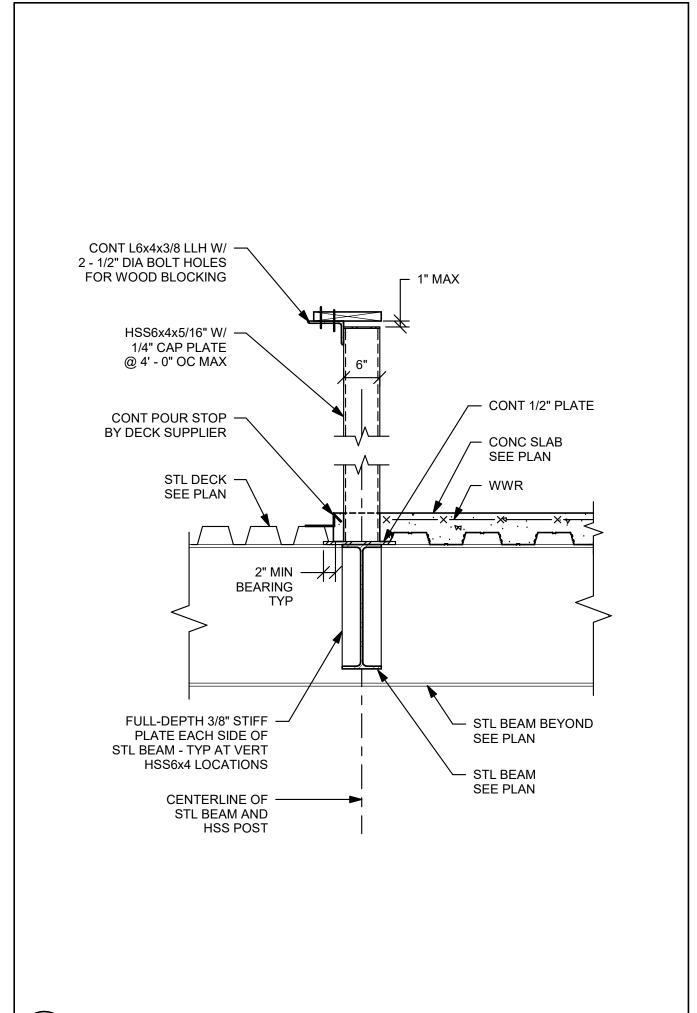


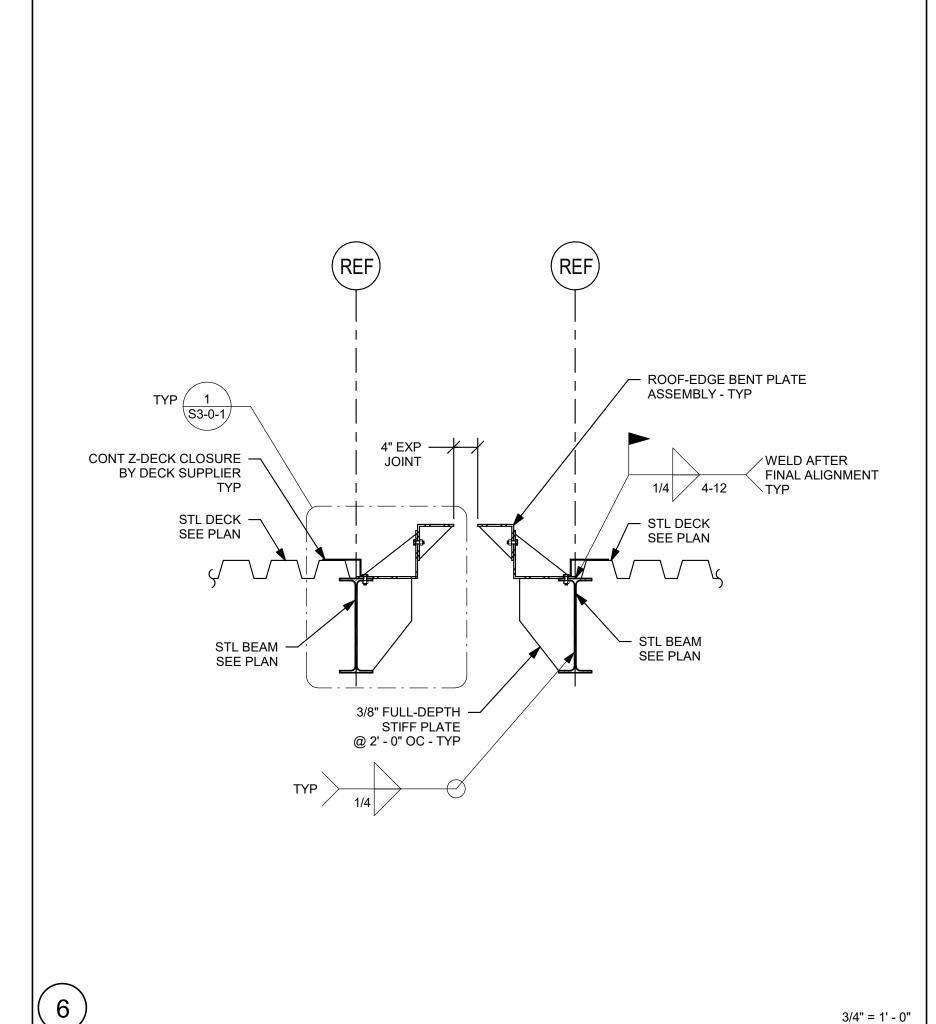


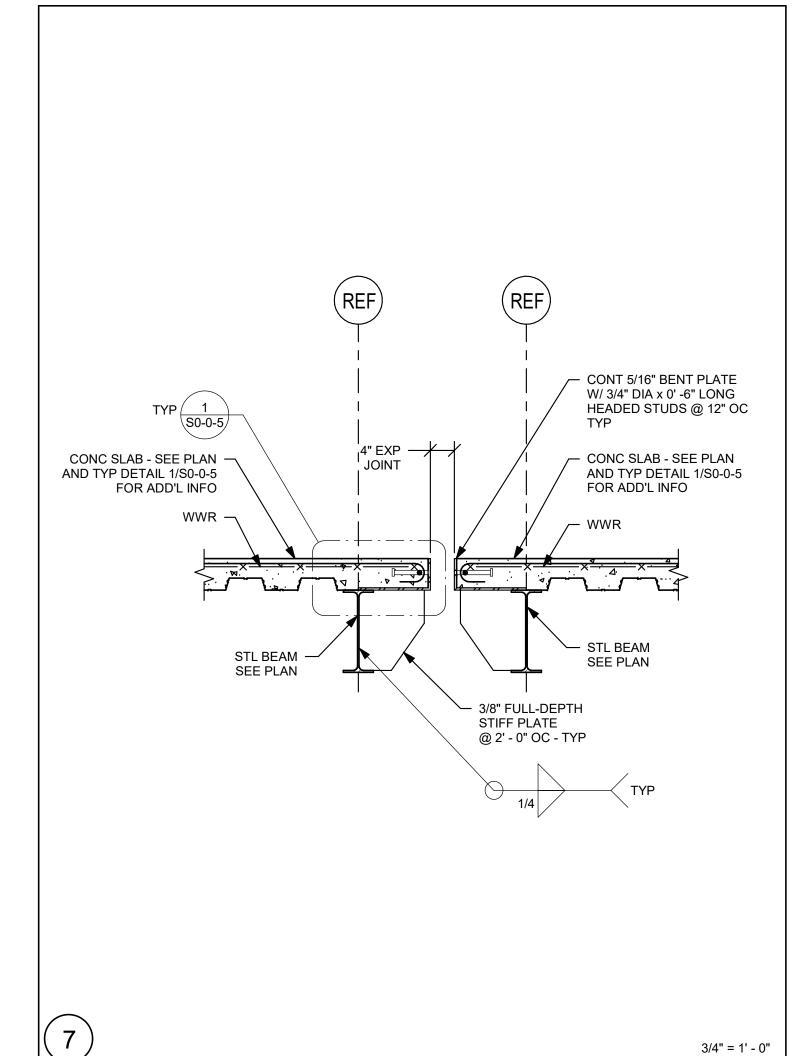


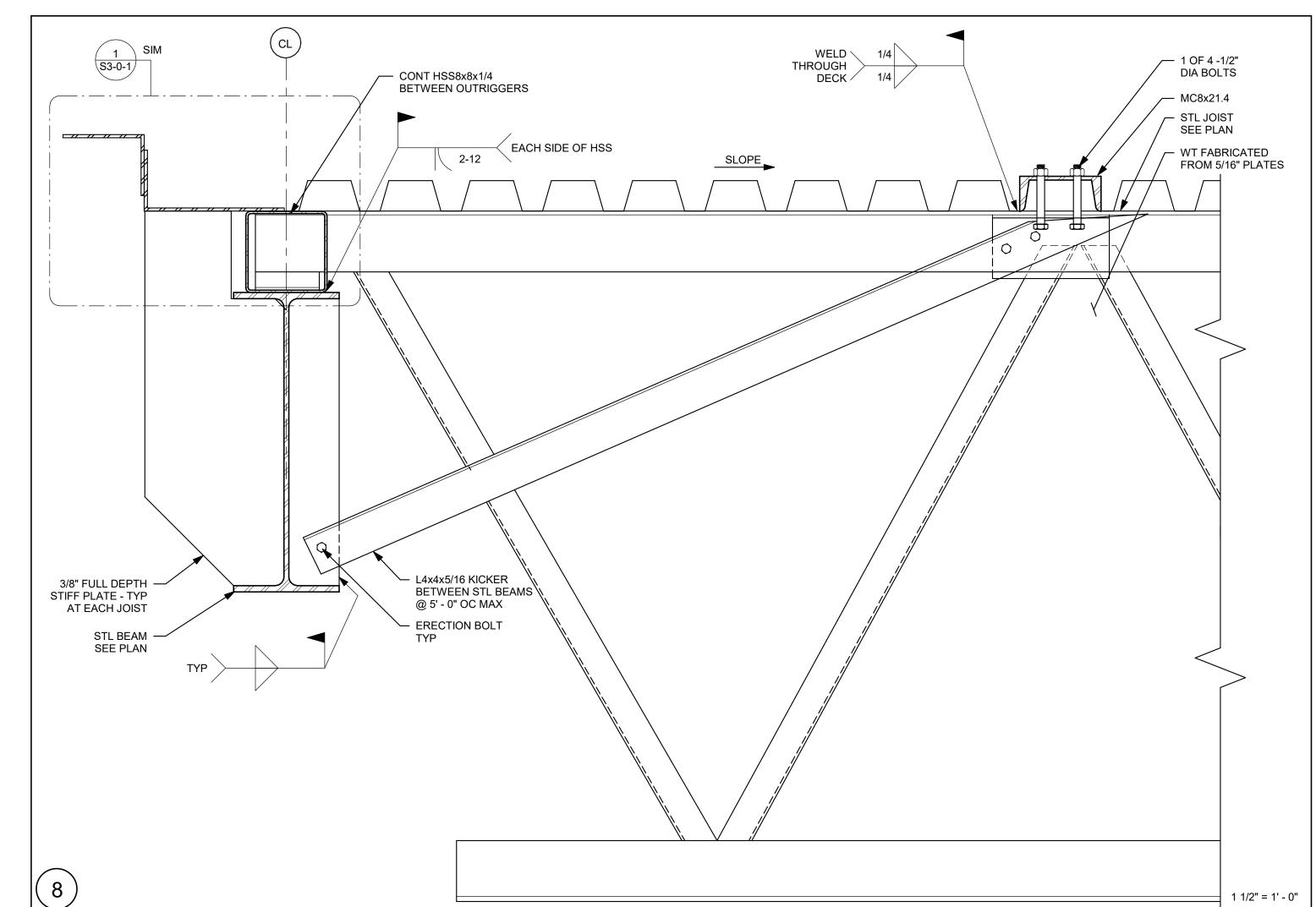


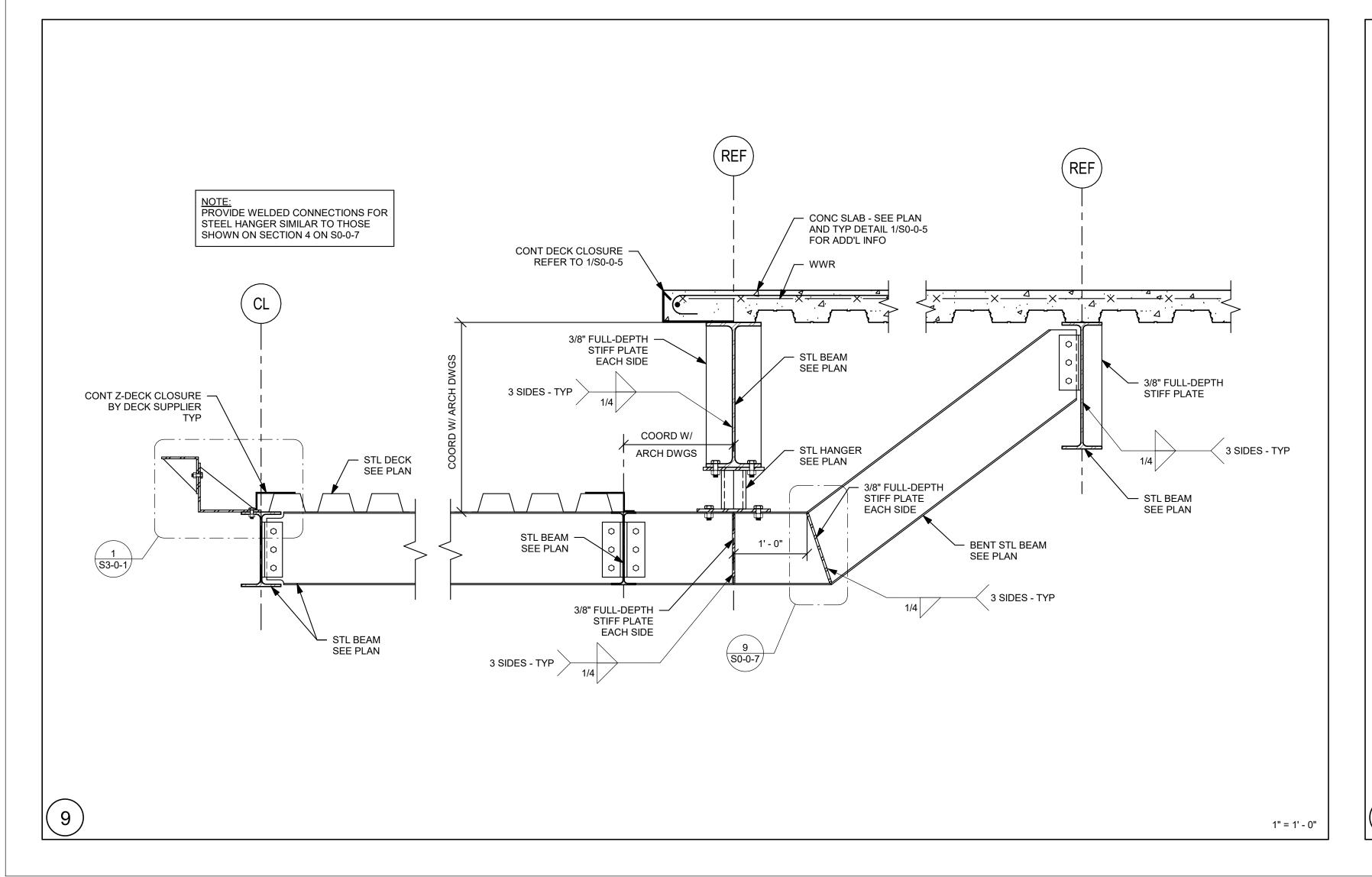




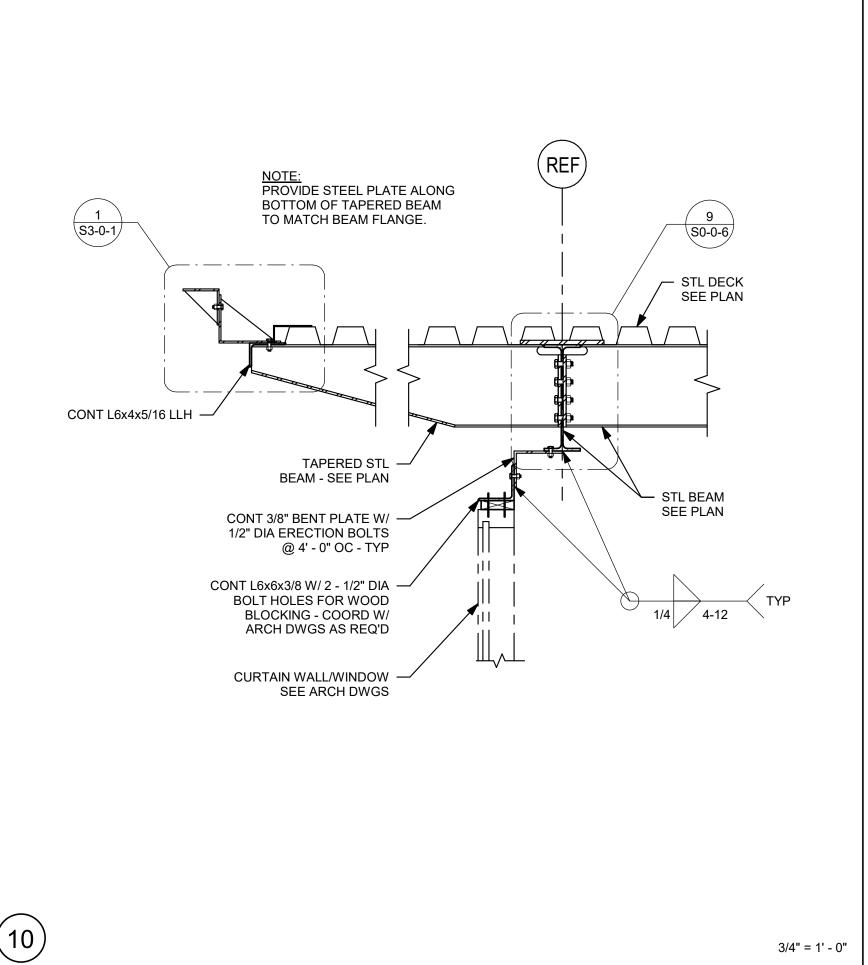


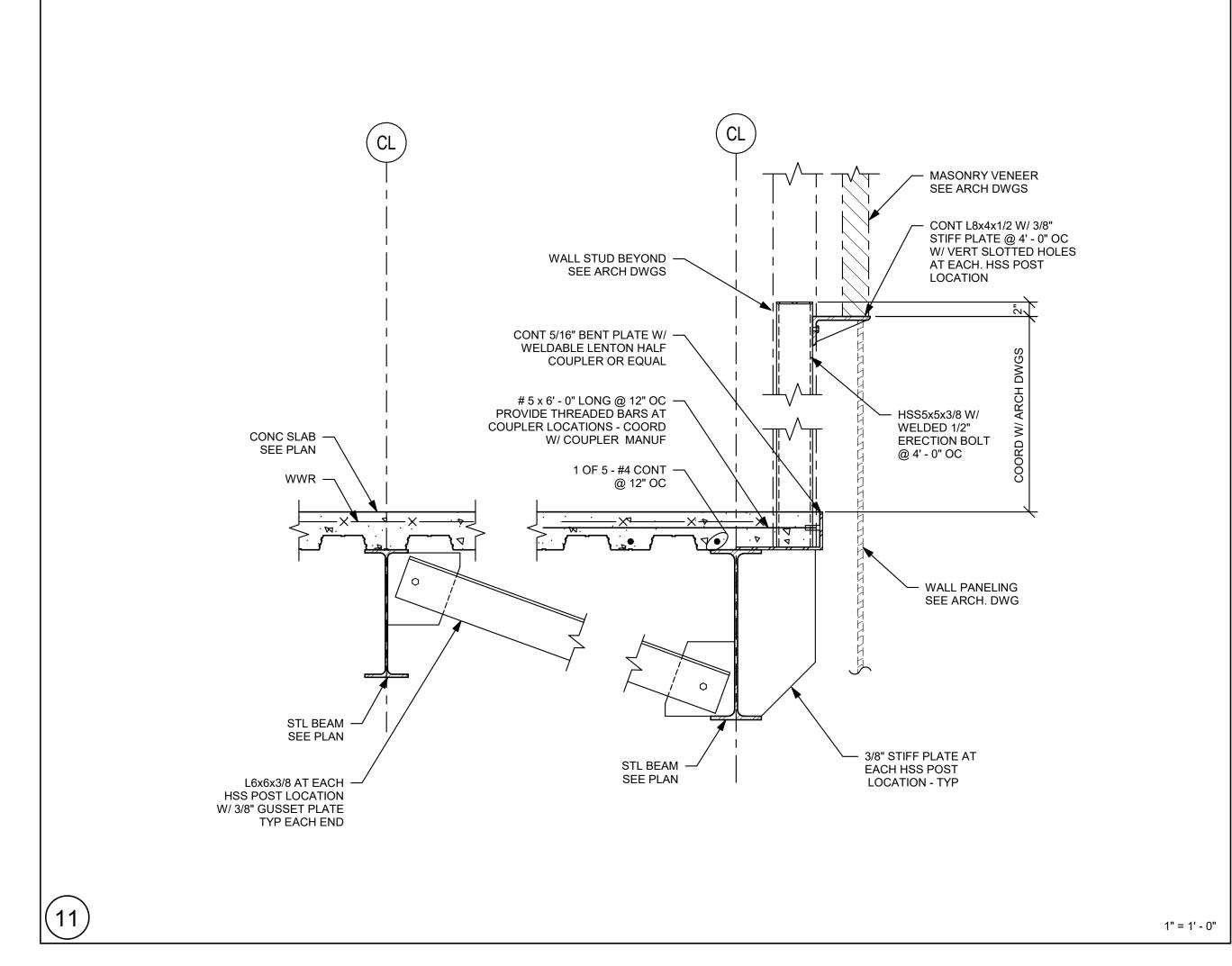






3/4" = 1' - 0"







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NORTHEAST METRO TECH

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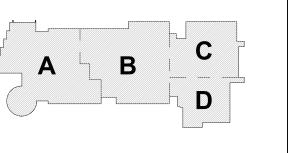
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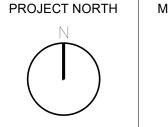
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KEY PLAN

CCT NORTH MAGNETIC NORTH



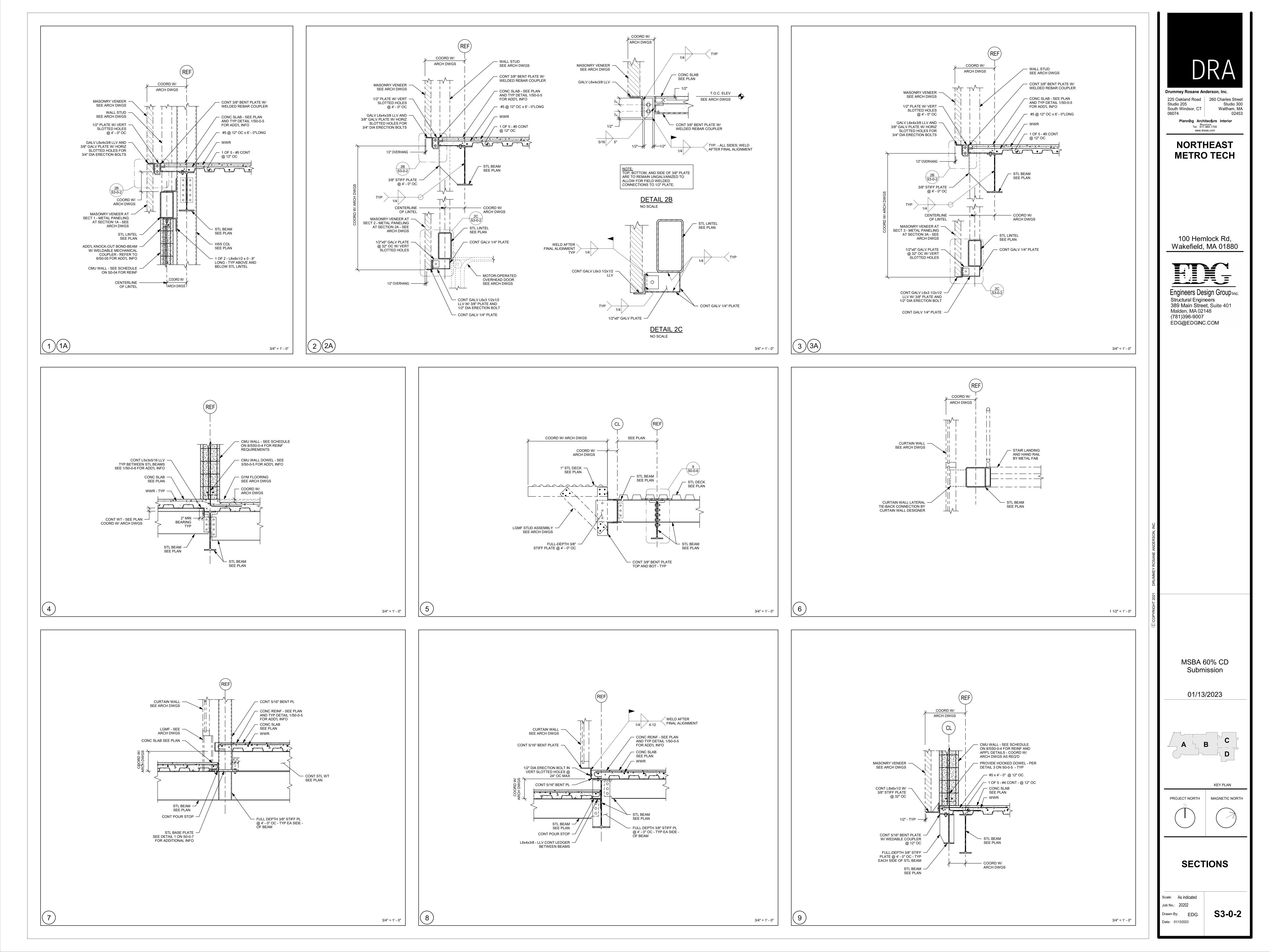
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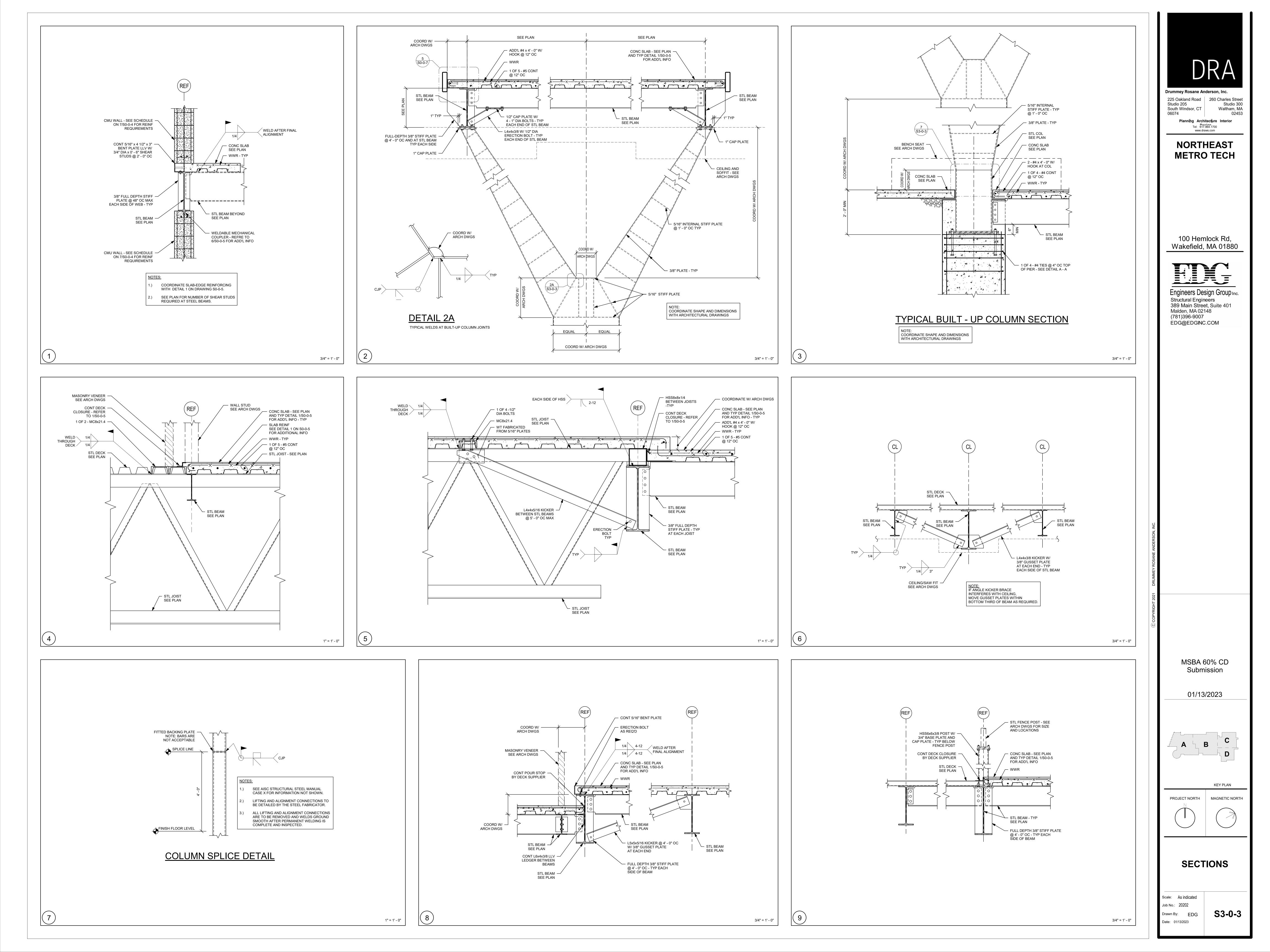
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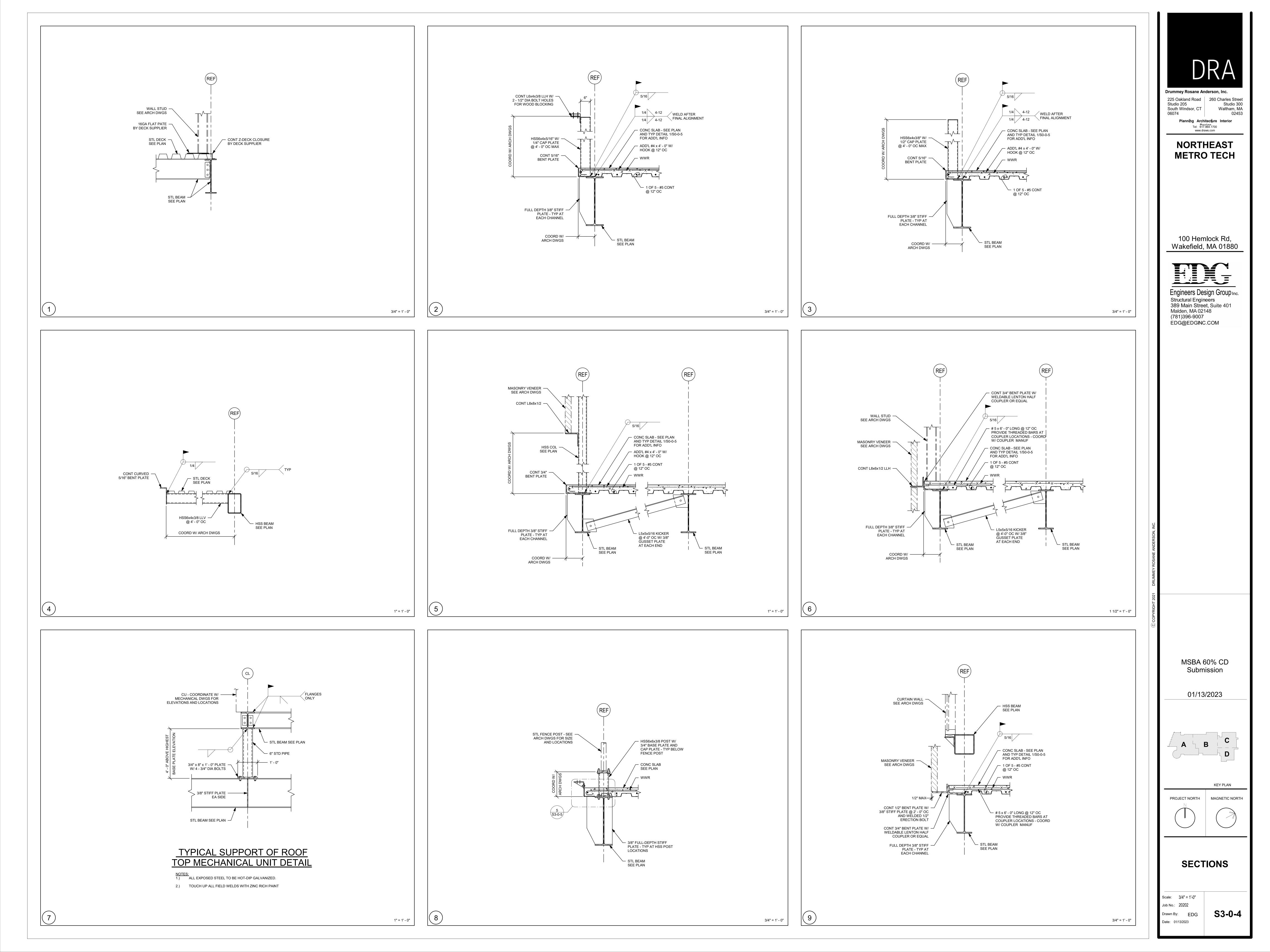
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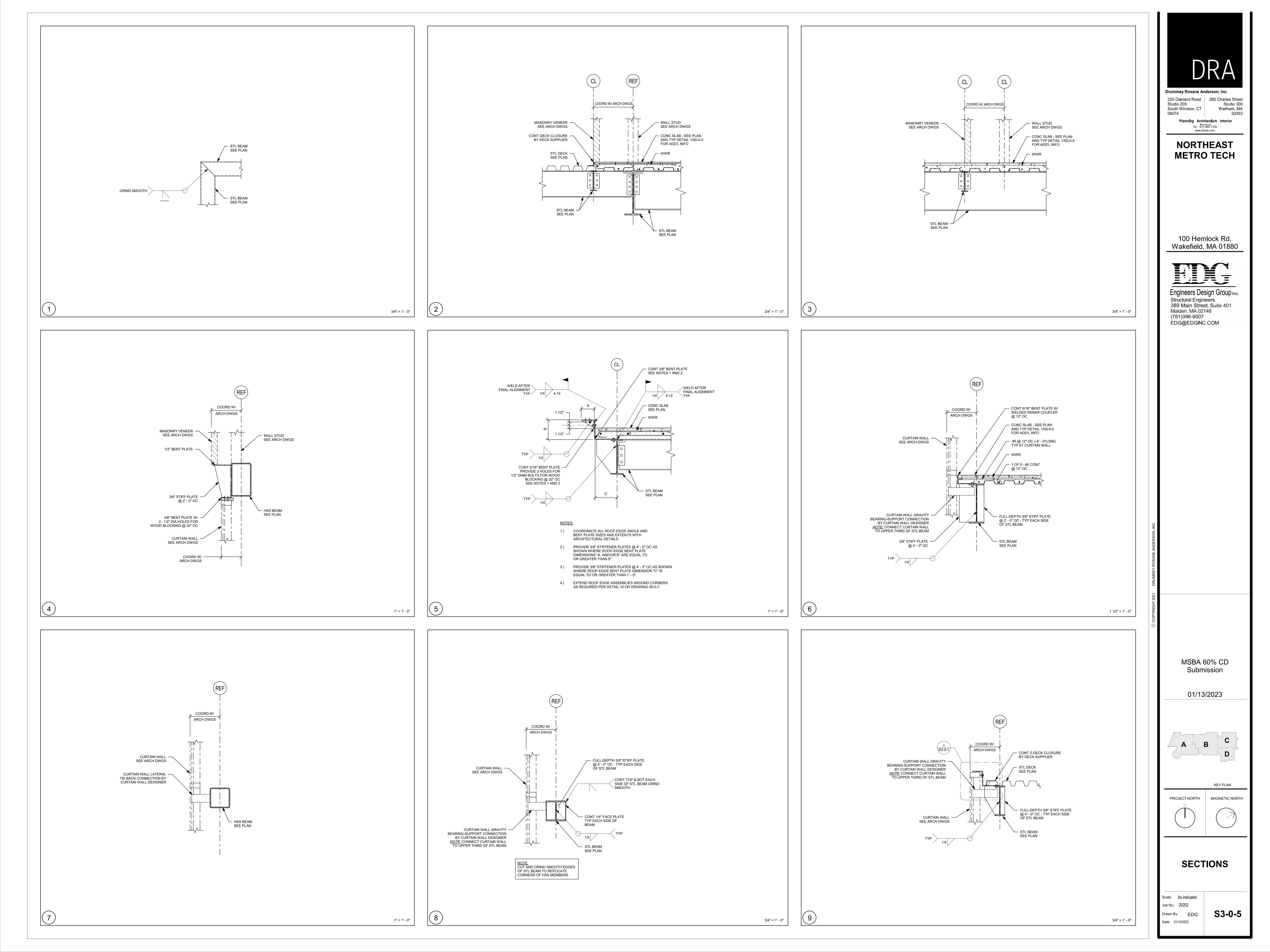
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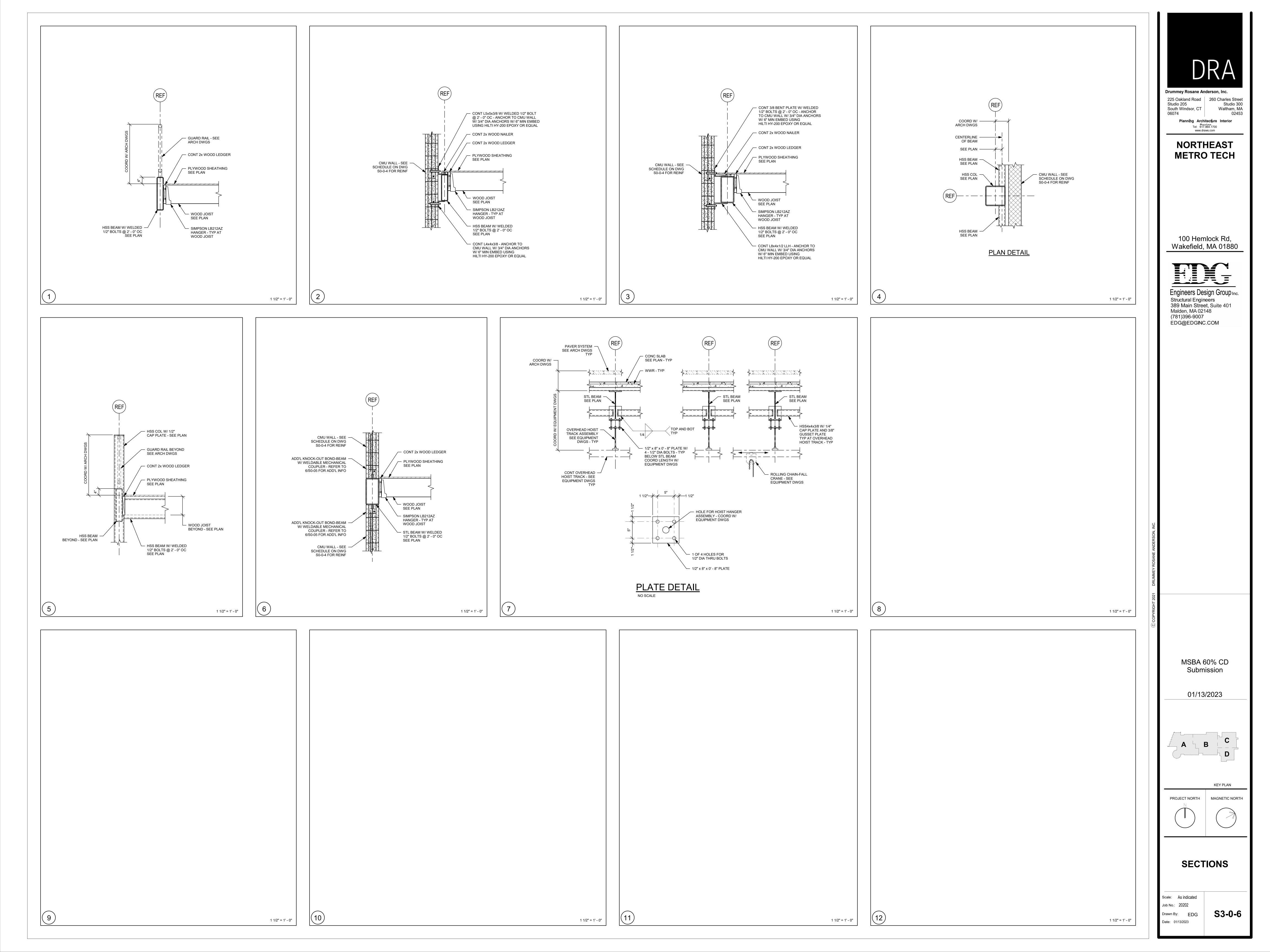
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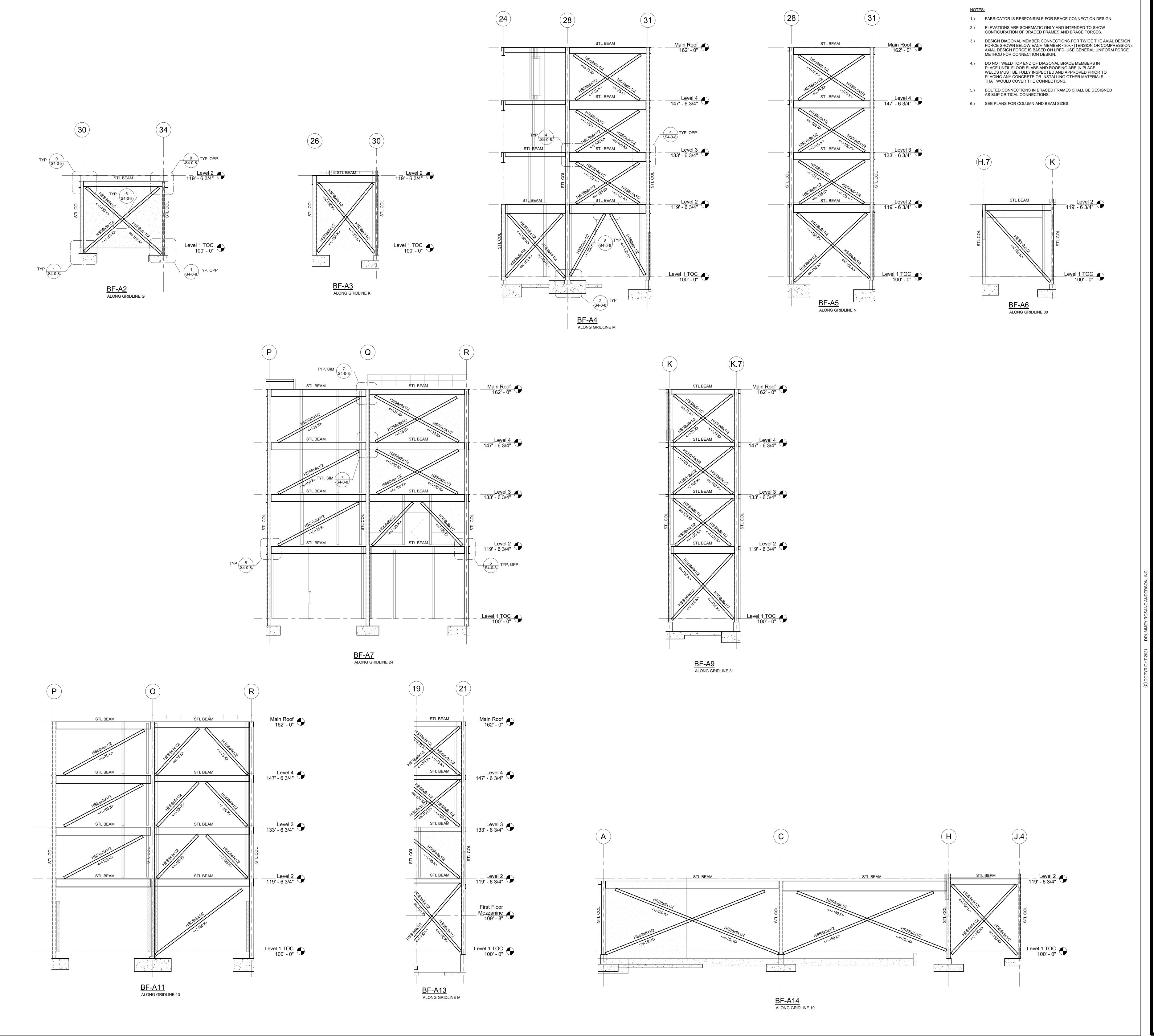












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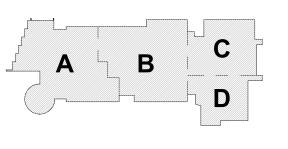
NORTHEAST METRO TECH

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KEY PLAN

ORTH MAGNETIC NORTH

PROJECT NORTH

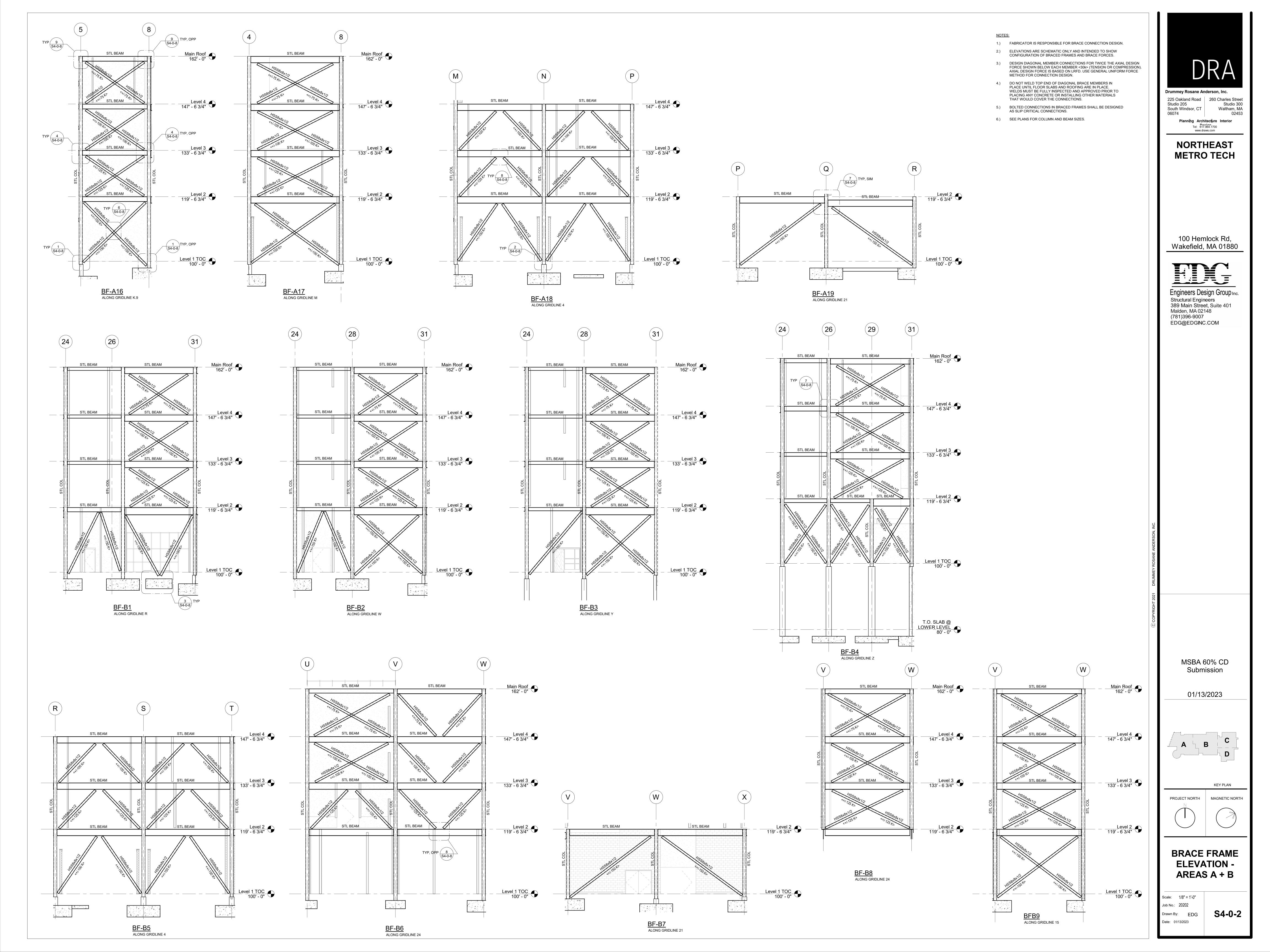
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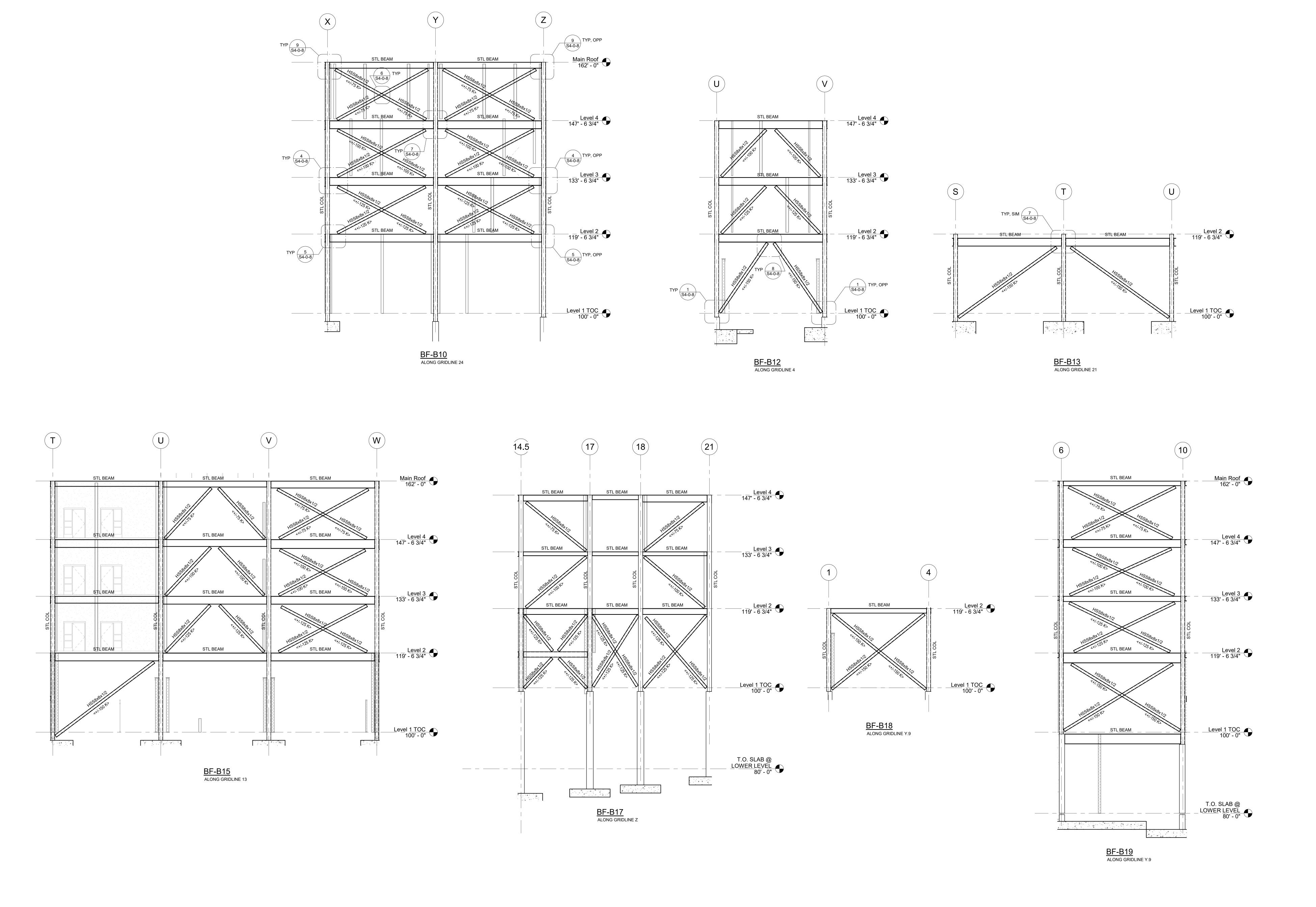
BRACE FRAME ELEVATIONS -AREA A

Scale: 1/8" = 1'-0'

Job No.: 20202

Drawn By: ED0





NOTES:

- 1.) FABRICATOR IS RESPONSIBLE FOR BRACE CONNECTION DESIGN.
- 2.) ELEVATIONS ARE SCHEMATIC ONLY AND INTENDED TO SHOW CONFIGURATION OF BRACED FRAMES AND BRACE FORCES.
- 3.) DESIGN DIAGONAL MEMBER CONNECTIONS FOR TWICE THE AXIAL DESIGN FORCE SHOWN BELOW EACH MEMBER <30k> (TENSION OR COMPRESSION). AXIAL DESIGN FORCE IS BASED ON LRFD. USE GENERAL UNIFORM FORCE METHOD FOR CONNECTION DESIGN.
- 4.) DO NOT WELD TOP END OF DIAGONAL BRACE MEMBERS IN PLACE UNTIL FLOOR SLABS AND ROOFING ARE IN PLACE. WELDS MUST BE FULLY INSPECTED AND APPROVED PRIOR TO PLACING ANY CONCRETE OR INSTALLING OTHER MATERIALS
- THAT WOULD COVER THE CONNECTIONS.

 5.) BOLTED CONNECTIONS IN BRACED FRAMES SHALL BE DESIGNED AS SLIP CRITICAL CONNECTIONS.
- AS SLIP CRITICAL CONNECTIONS.

 6.) SEE PLANS FOR COLUMN AND BEAM SIZES.

DRA

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06074

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METRO TECH

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100 Hemlock Rd,

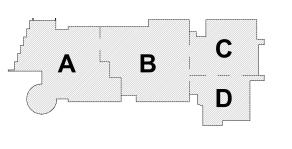
Wakefield, MA 01880



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Malden, MA 02148
(781)396-9007
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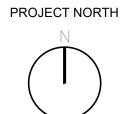
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KEY PLAN

MAGNETIC NORTH



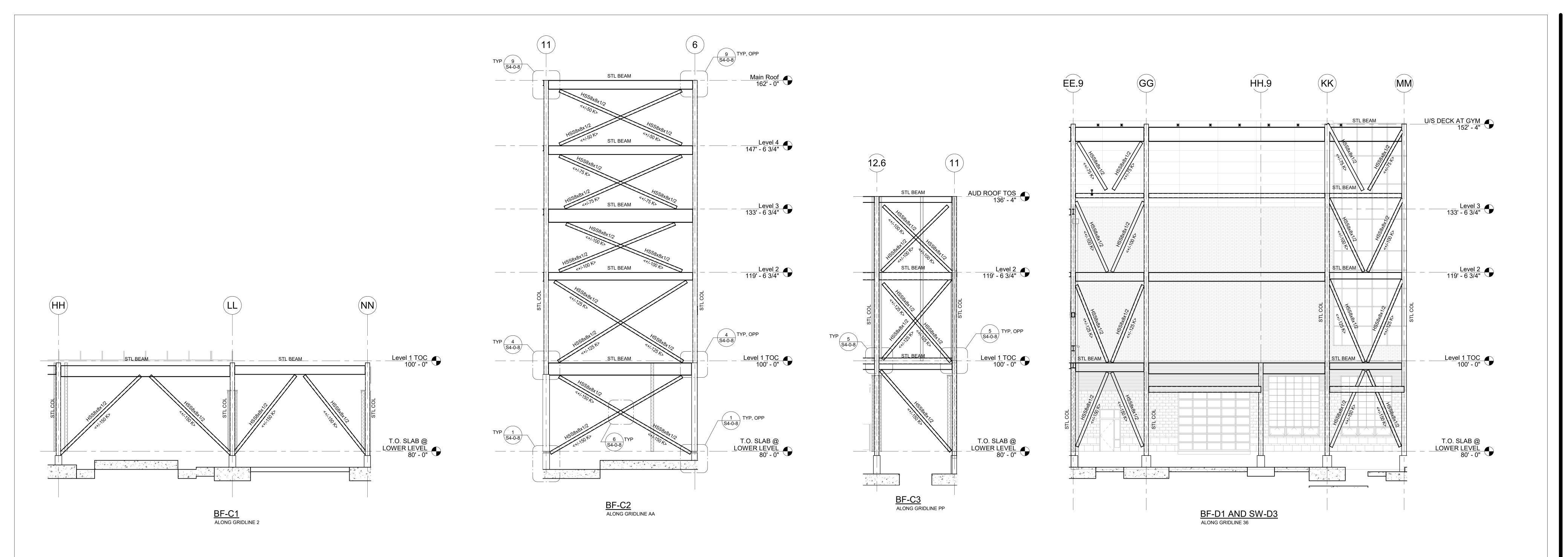
BRACE FRAME ELEVATION -AREA B

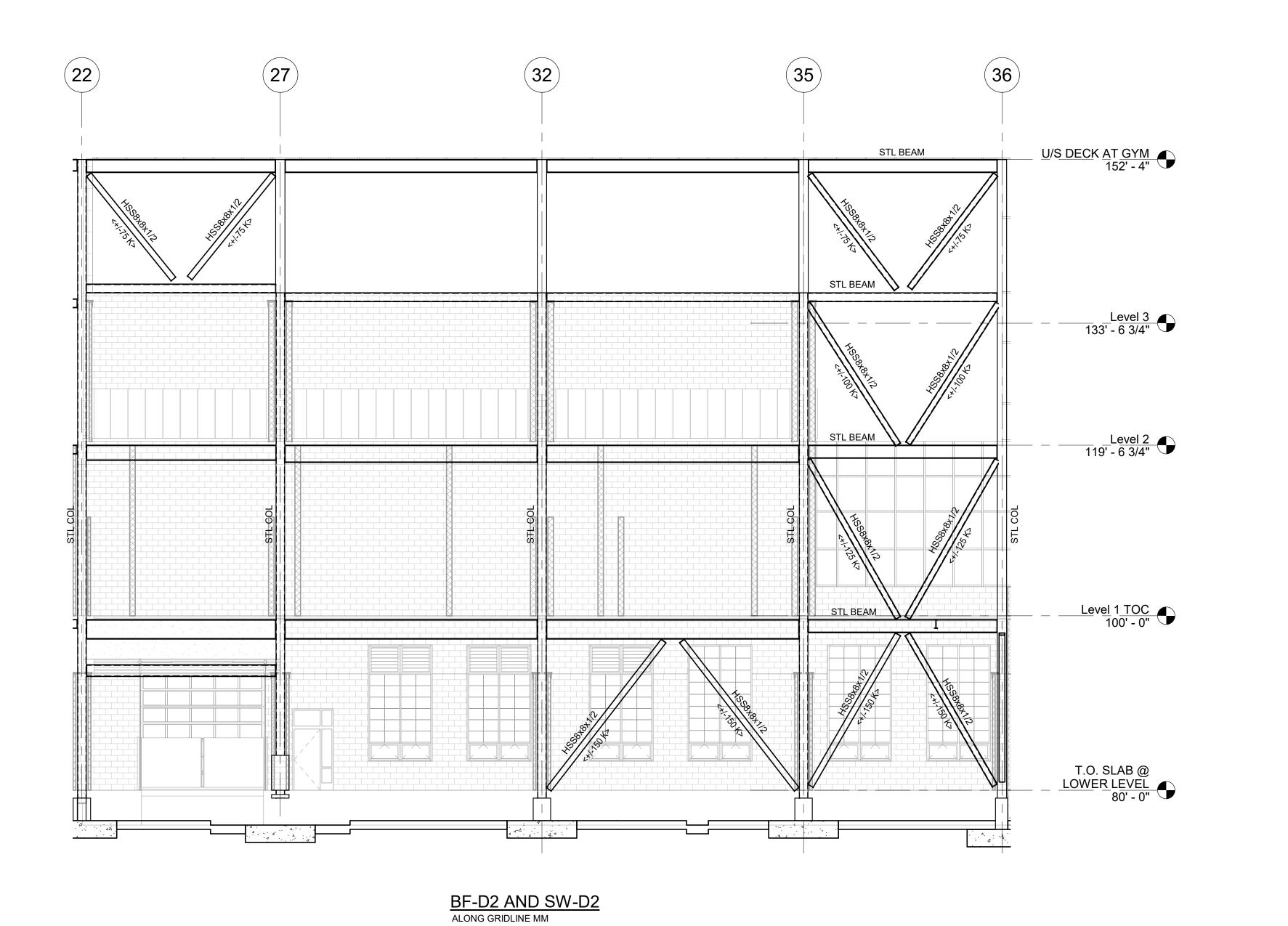
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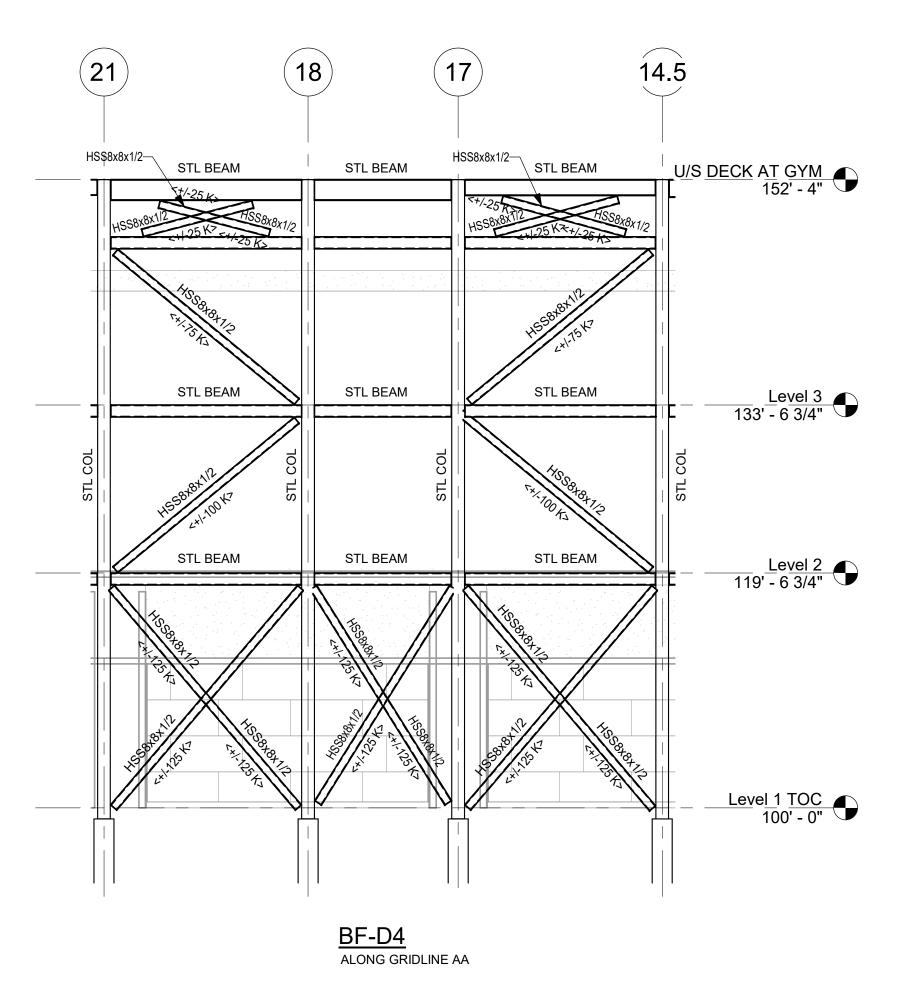
Job No.: 20202

Drawn By: EDG

Date: 01/13/2023







NOTES:

1.) FABRICATOR IS RESPONSIBLE FOR BRACE CONNECTION DESIGN.

2.) ELEVATIONS ARE SCHEMATIC ONLY AND INTENDED TO SHOW CONFIGURATION OF BRACED FRAMES AND BRACE FORCES.

3.) DESIGN DIAGONAL MEMBER CONNECTIONS FOR TWICE THE AXIAL DESIGN FORCE SHOWN BELOW EACH MEMBER <30k> (TENSION OR COMPRESSION). AXIAL DESIGN FORCE IS BASED ON LRFD. USE GENERAL UNIFORM FORCE METHOD FOR CONNECTION DESIGN.

4.) DO NOT WELD TOP END OF DIAGONAL BRACE MEMBERS IN PLACE UNTIL FLOOR SLABS AND ROOFING ARE IN PLACE. WELDS MUST BE FULLY INSPECTED AND APPROVED PRIOR TO PLACING ANY CONCRETE OR INSTALLING OTHER MATERIALS THAT WOULD COVER THE CONNECTIONS.

5.) BOLTED CONNECTIONS IN BRACED FRAMES SHALL BE DESIGNED AS SLIP CRITICAL CONNECTIONS.

6.) SEE PLANS FOR COLUMN AND BEAM SIZES.

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NORTHEAST METRO TECH

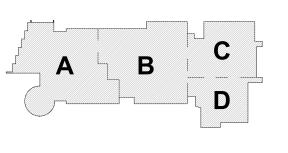
100 Hemlock Rd, Wakefield, MA 01880



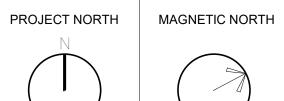
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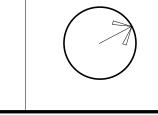
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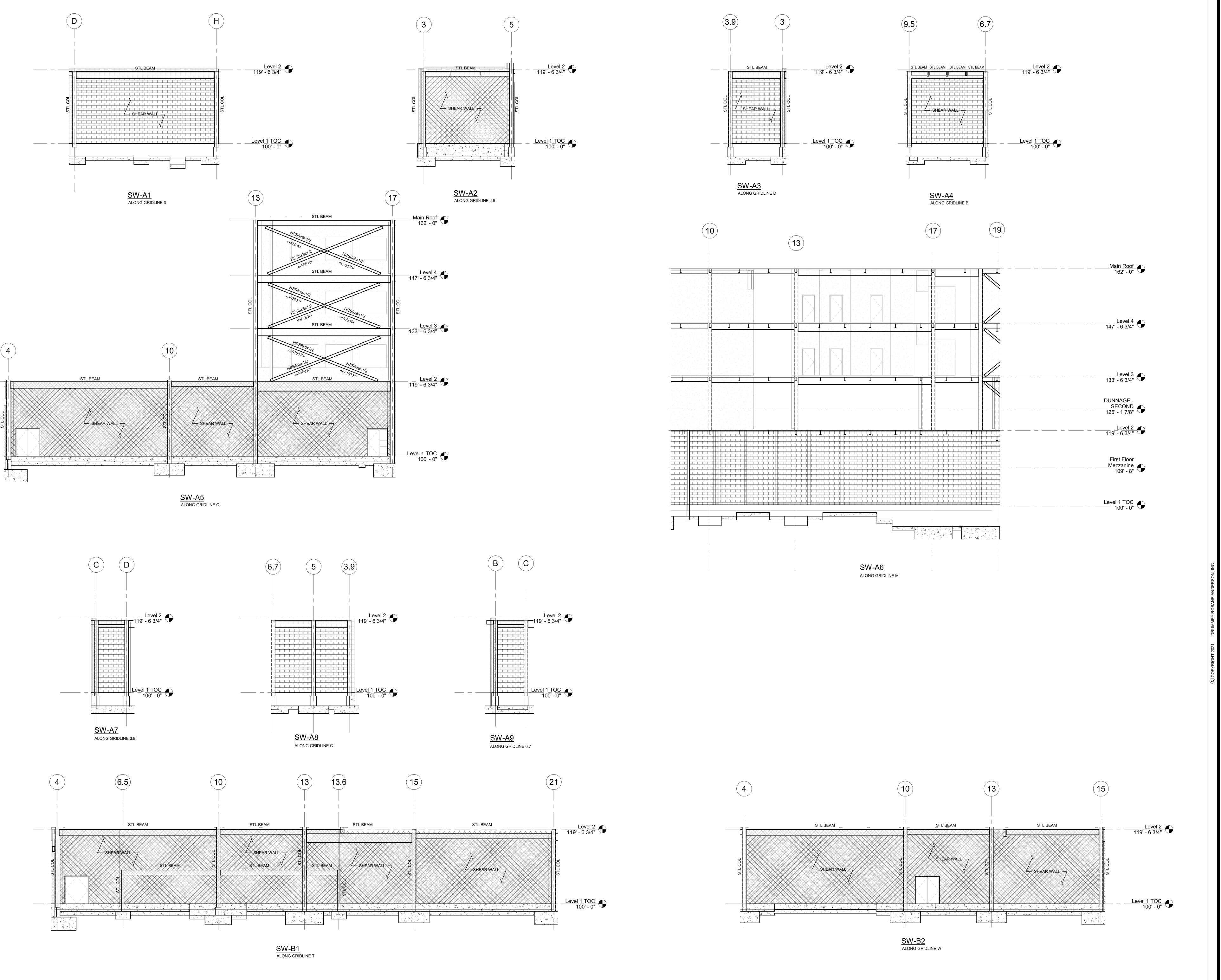
KEY PLAN





BRACED FRAME ELEVATION C +

Scale: 1/8" = 1'-0" Drawn By: EDG Date: 01/13/2023



Studio 300

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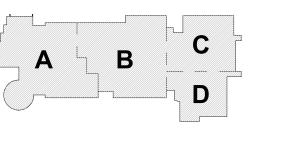
NORTHEAST METRO TECH

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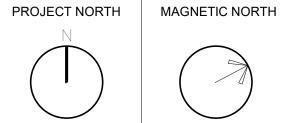
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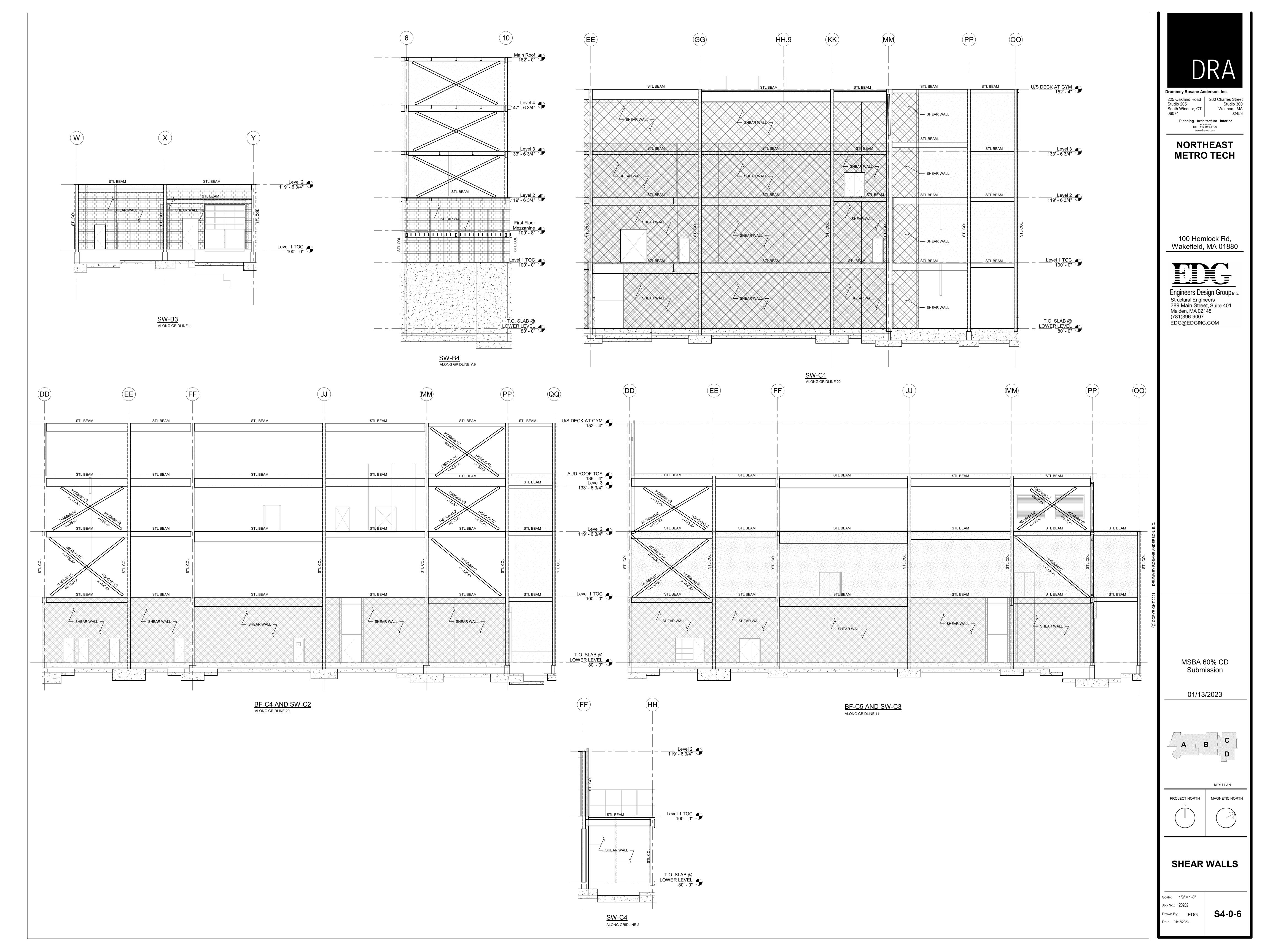


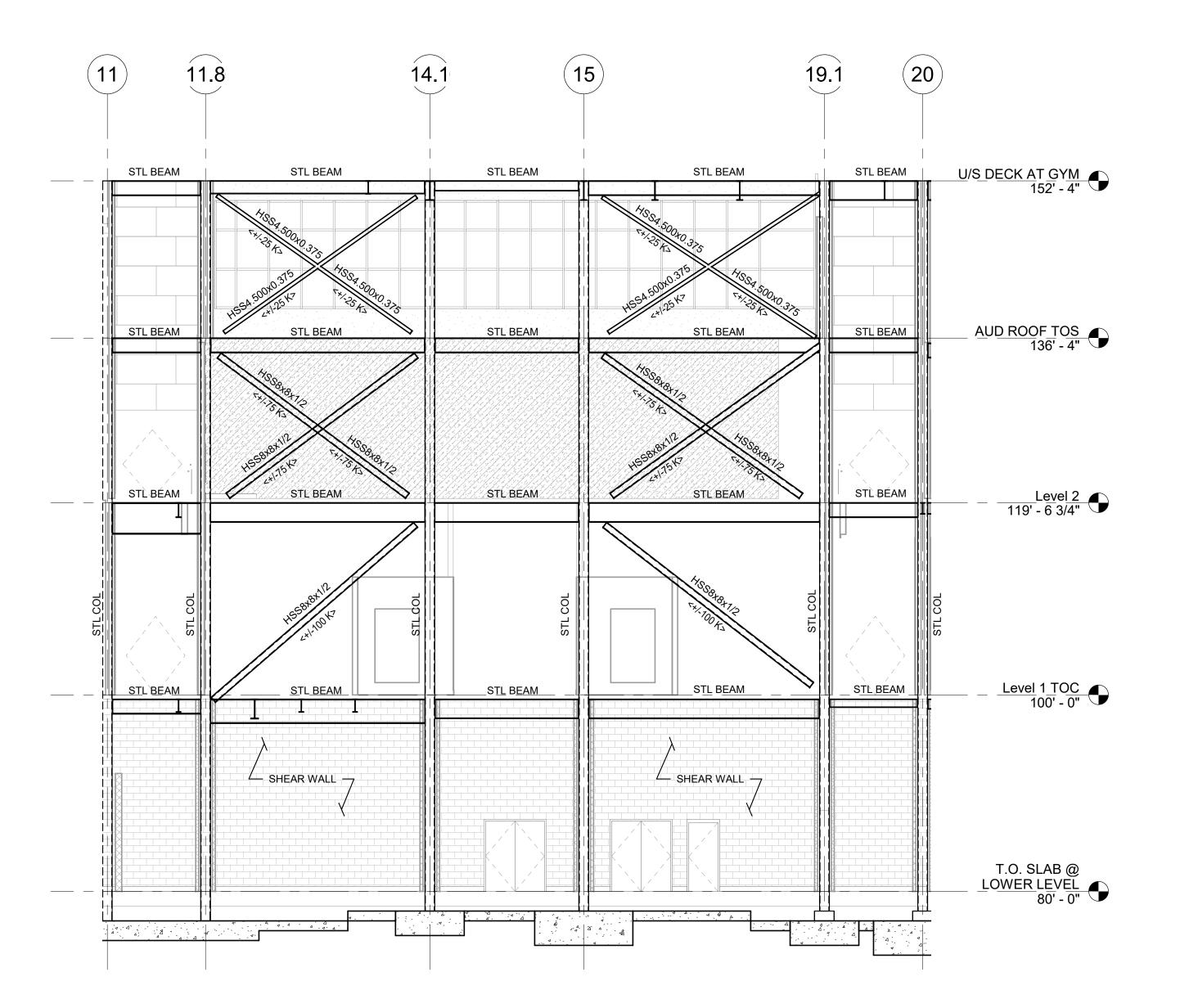
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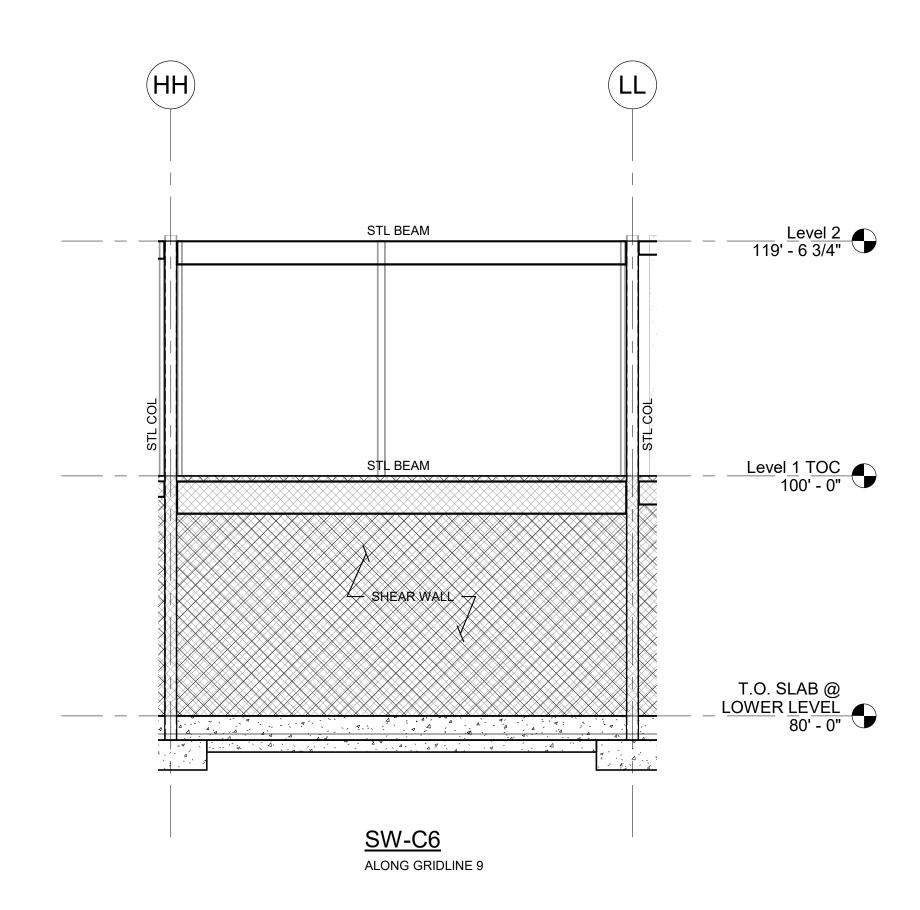


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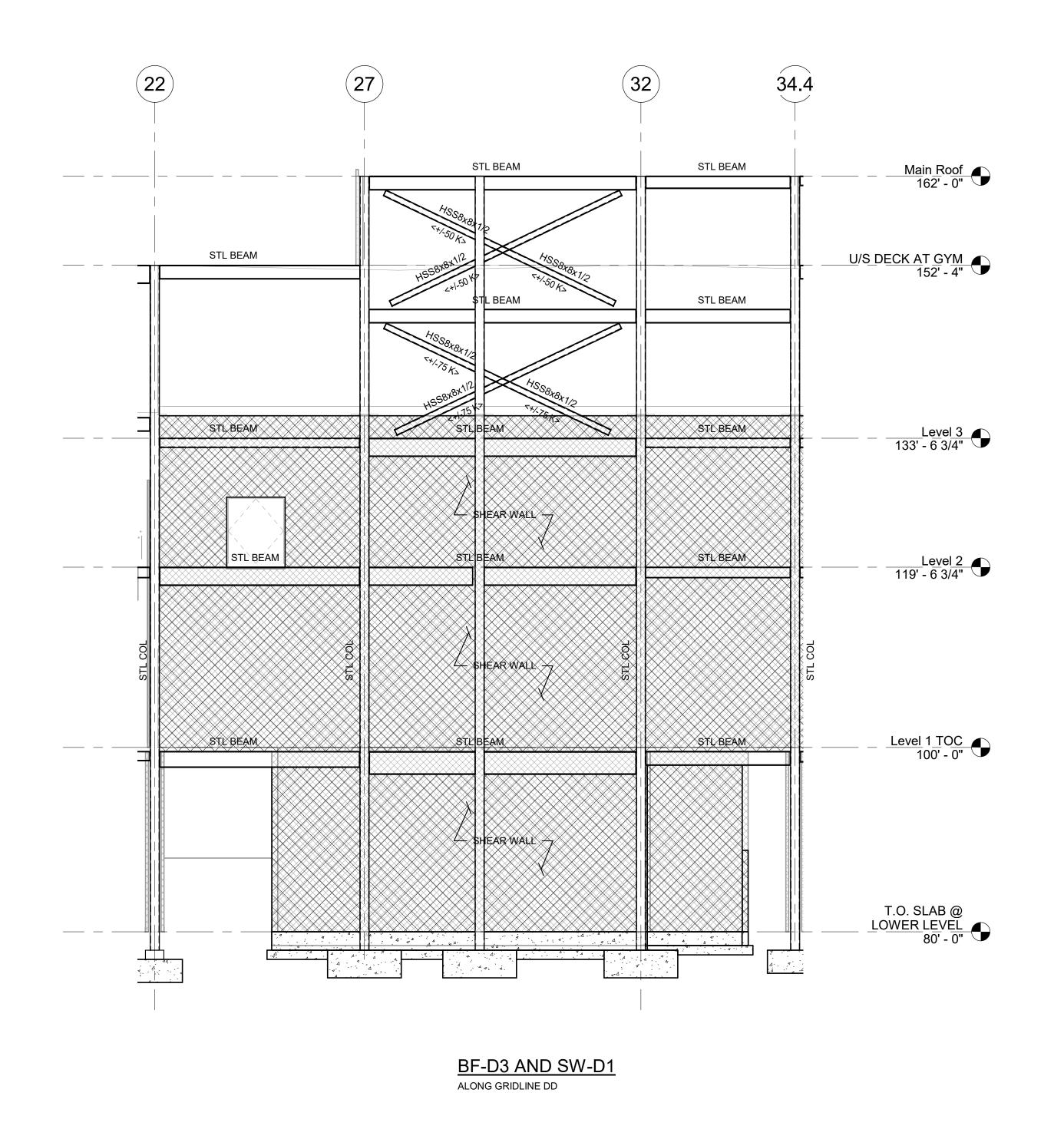
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BF-C6 AND SW-C5
ALONG GRIDLINE DD



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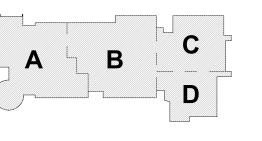
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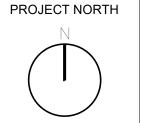
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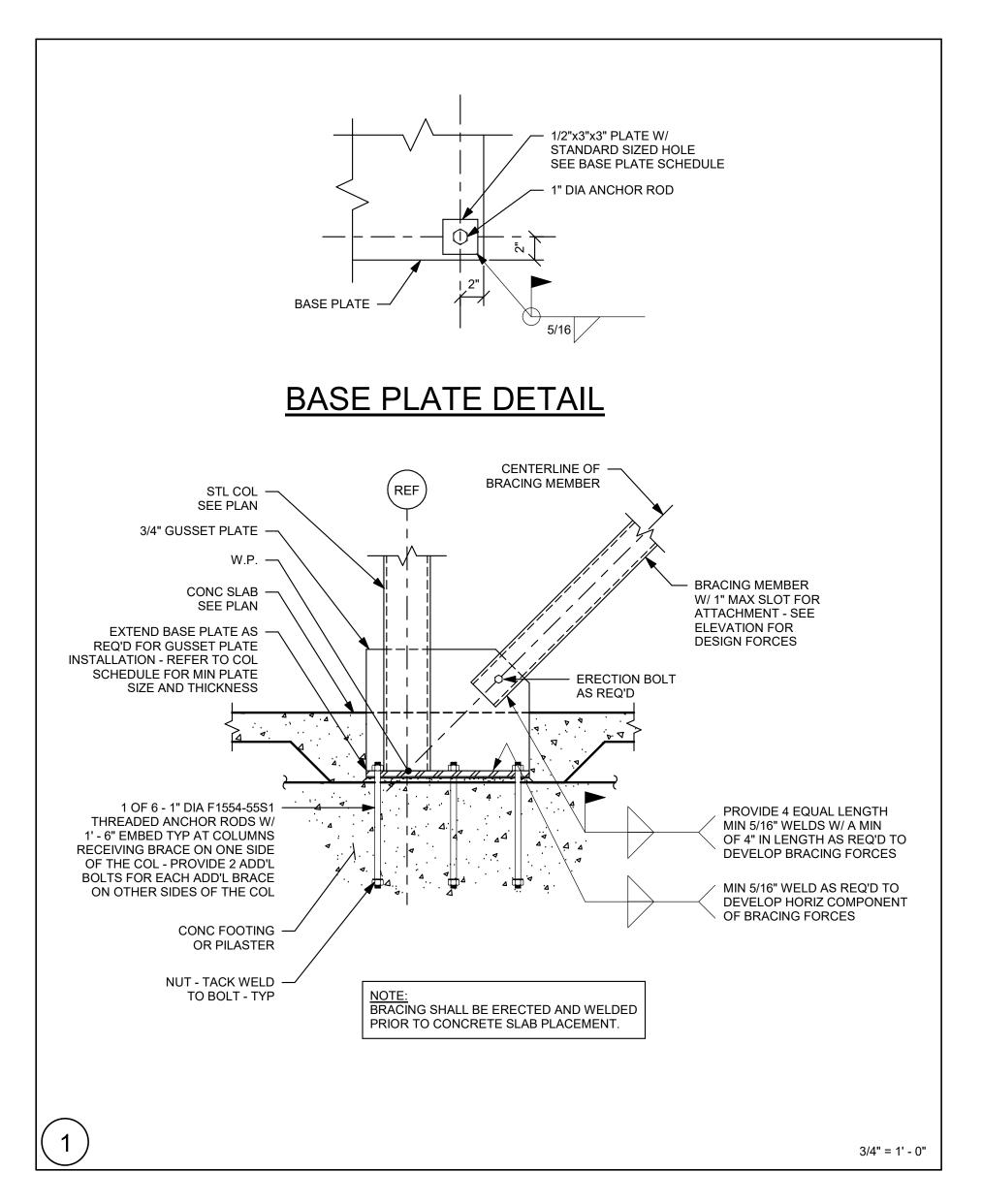
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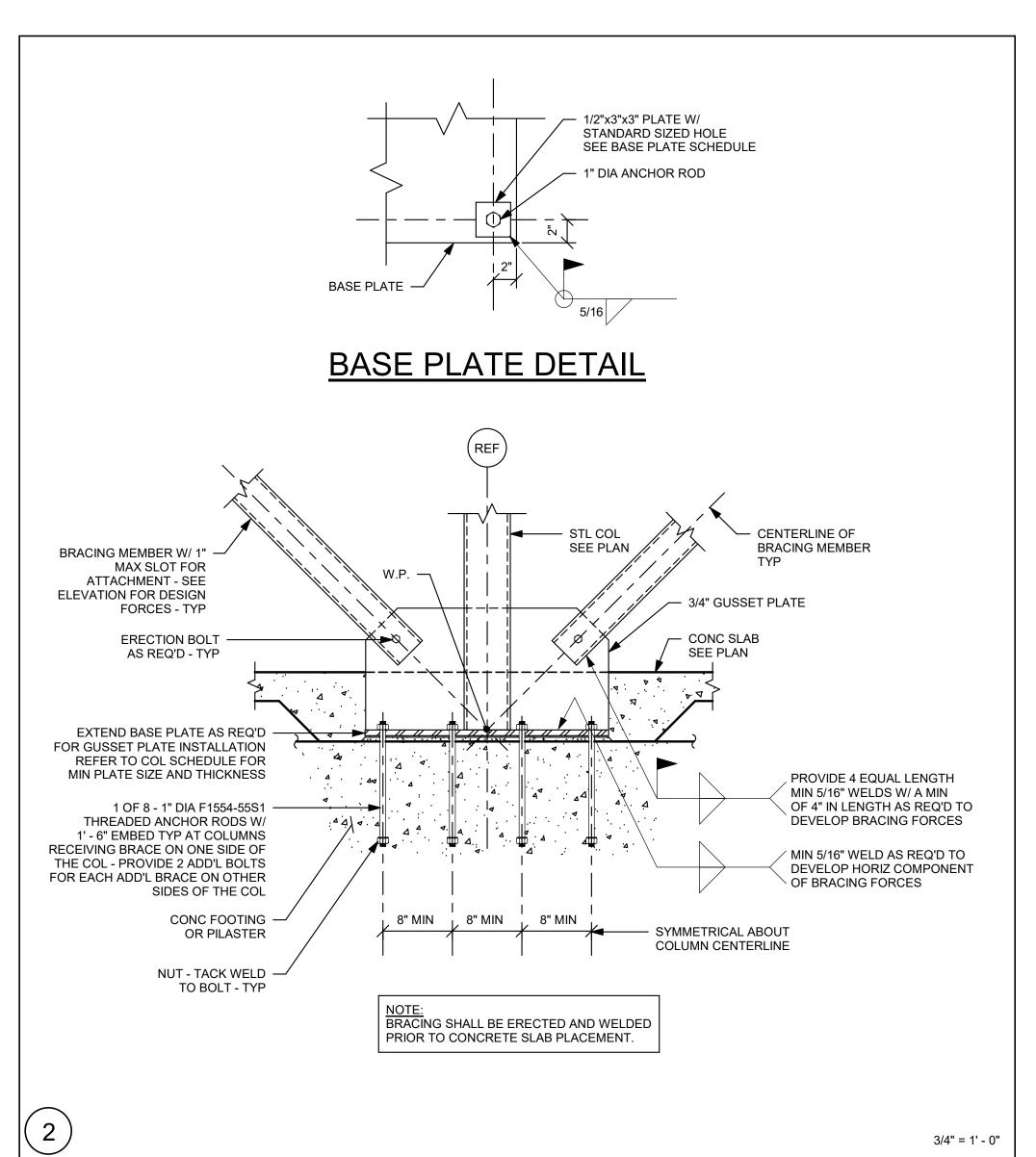
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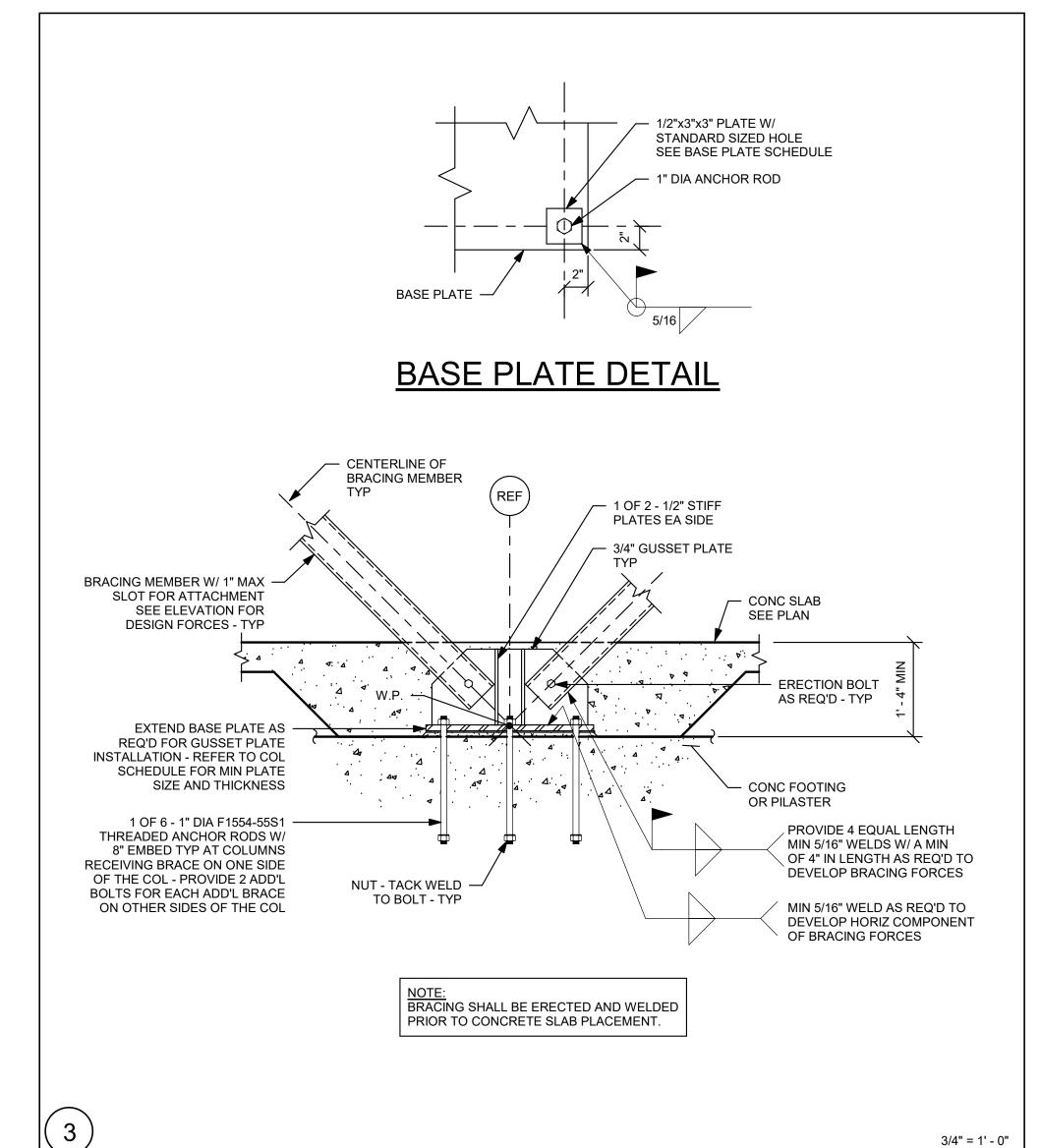


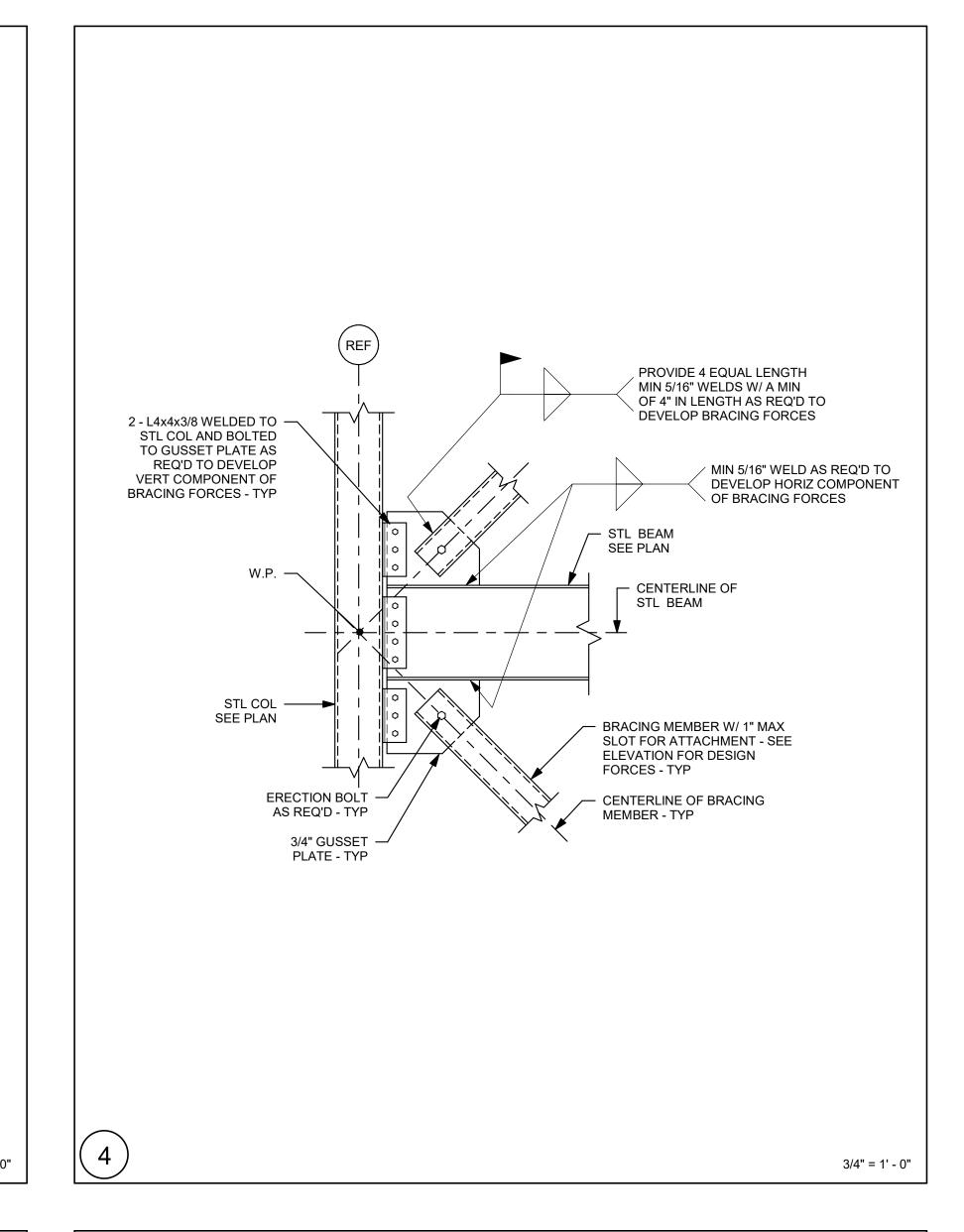
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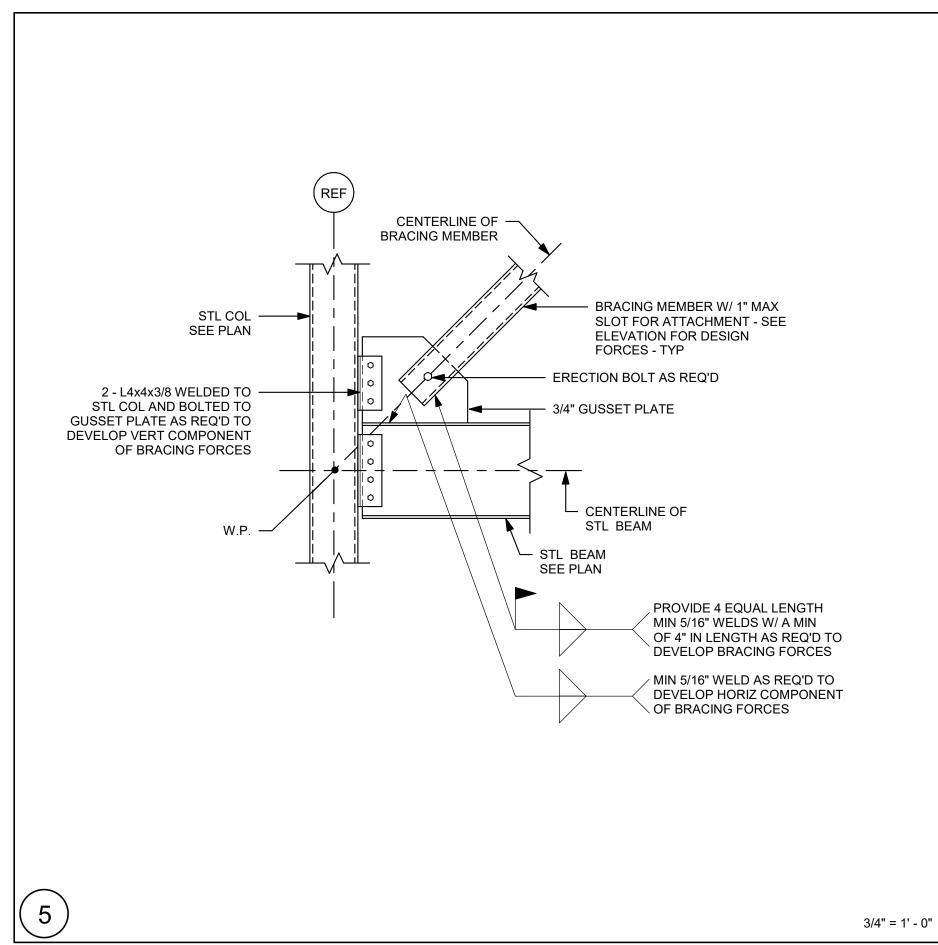
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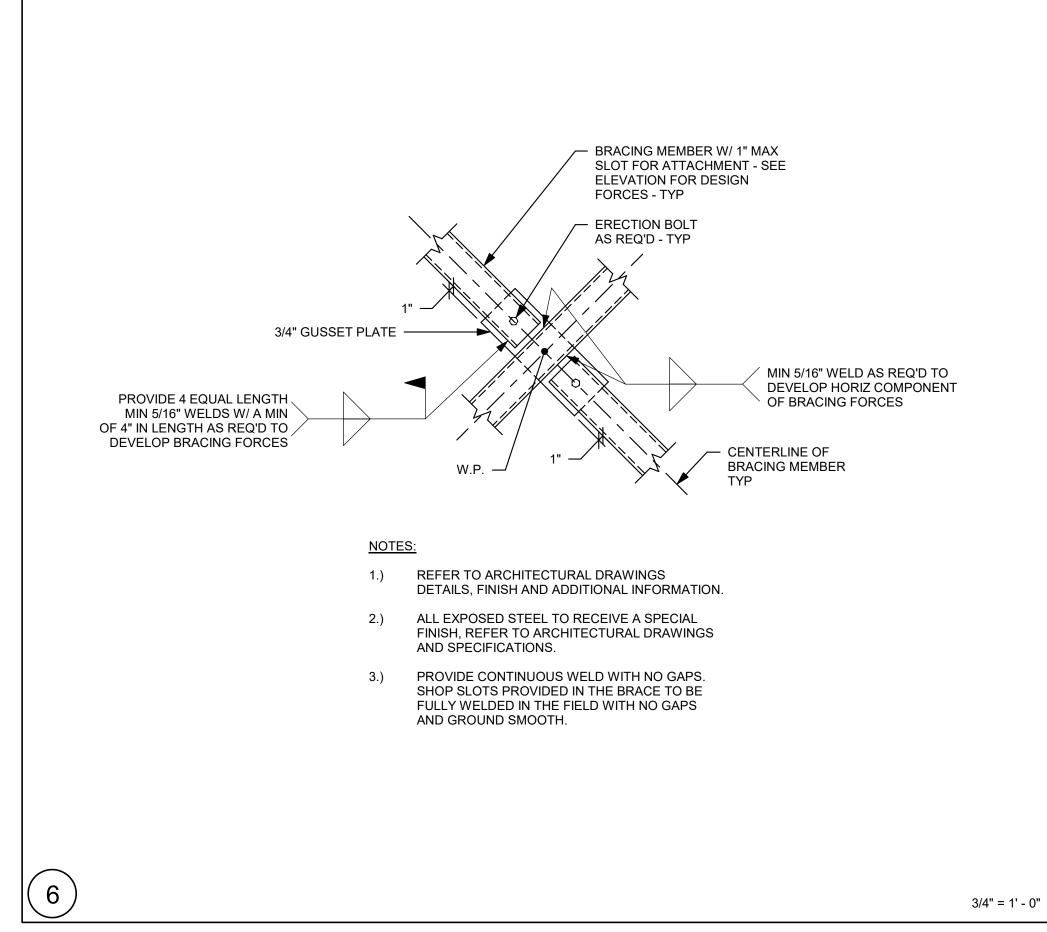


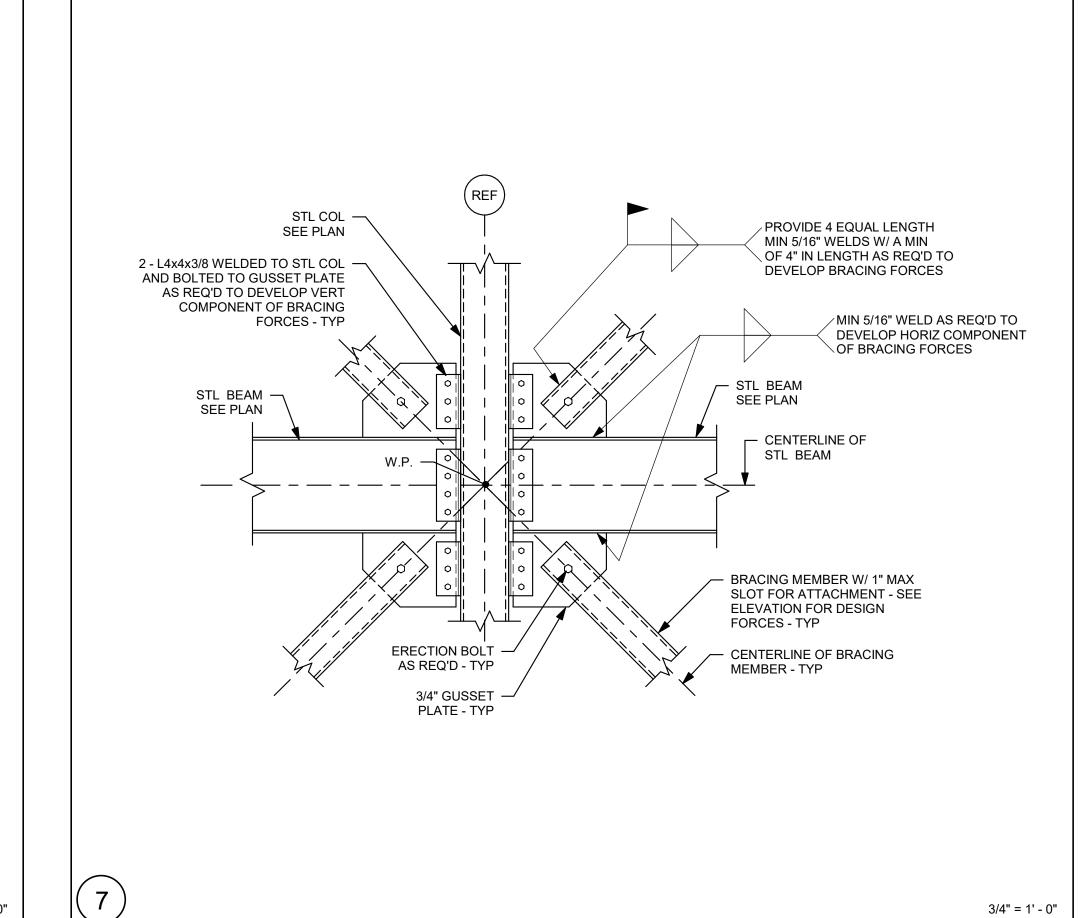


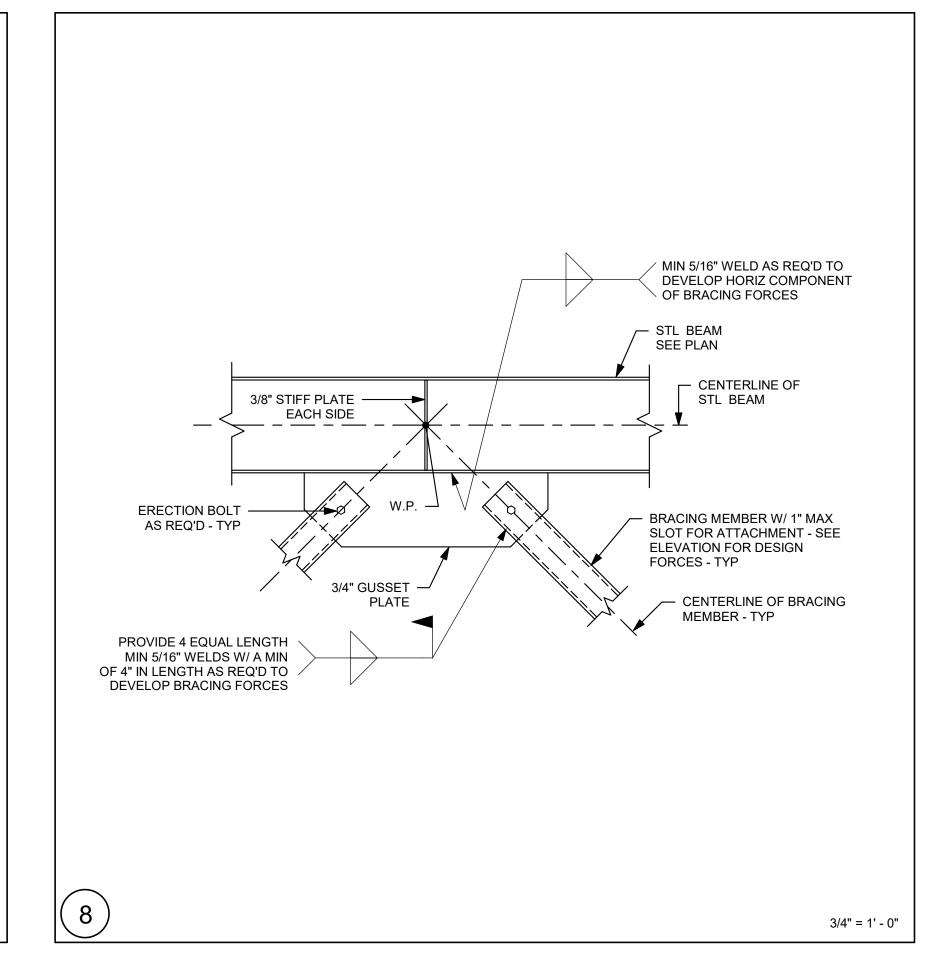


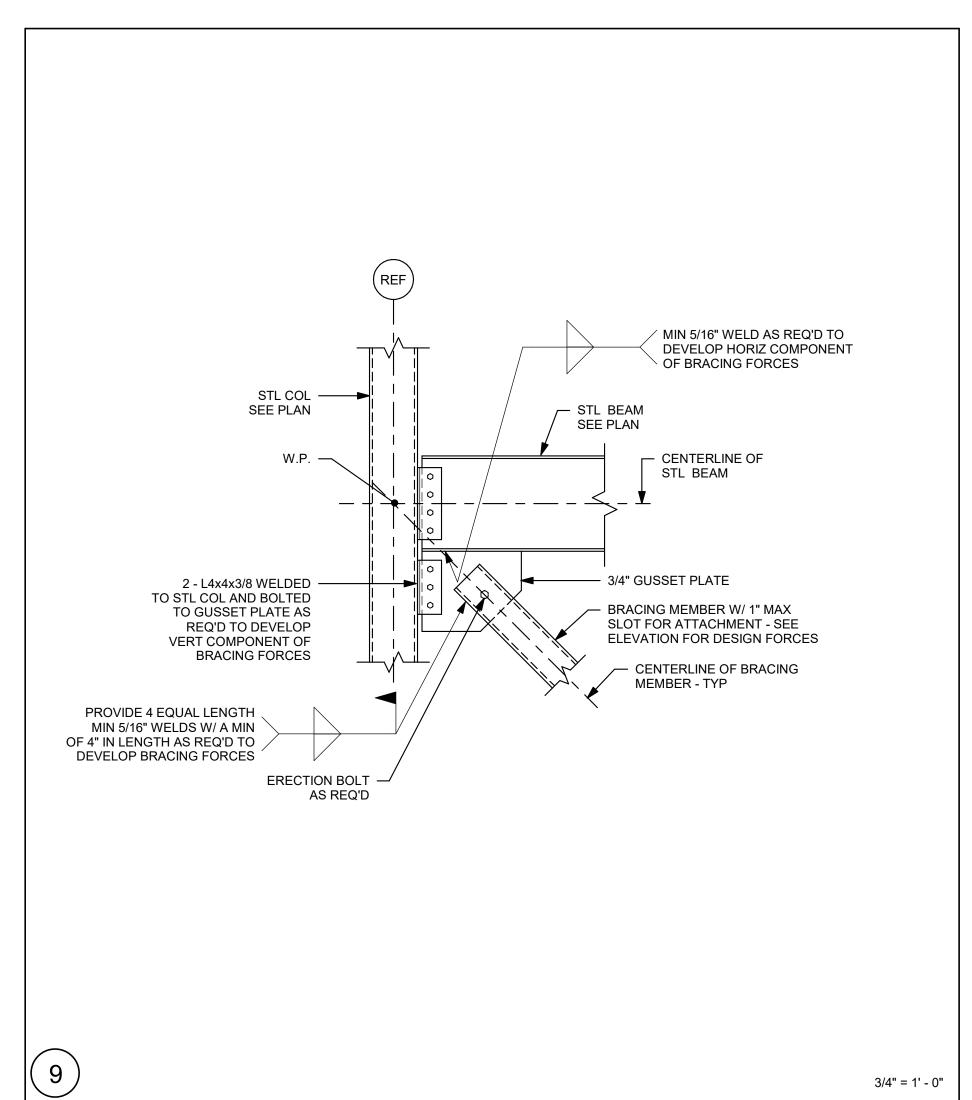


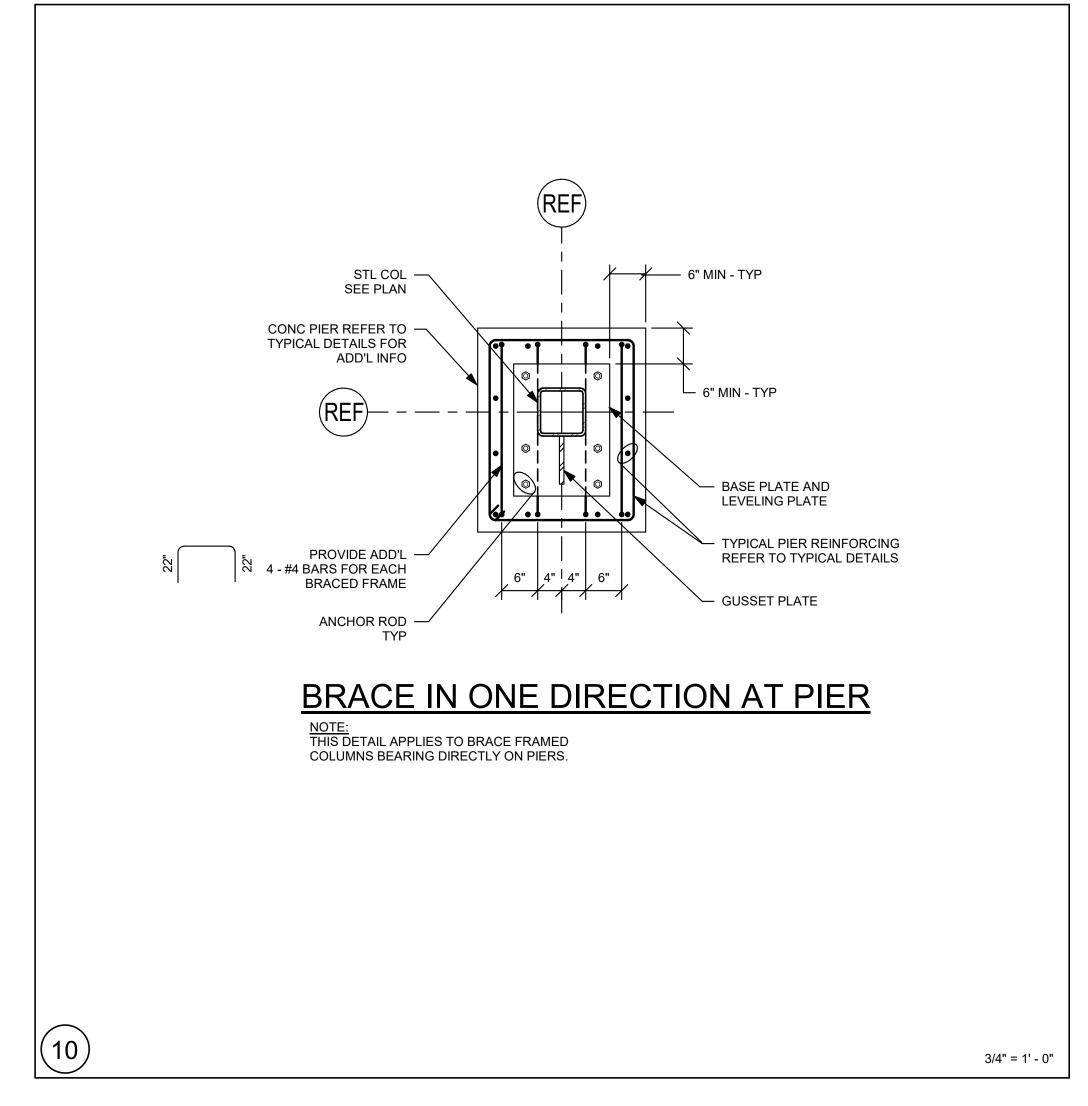


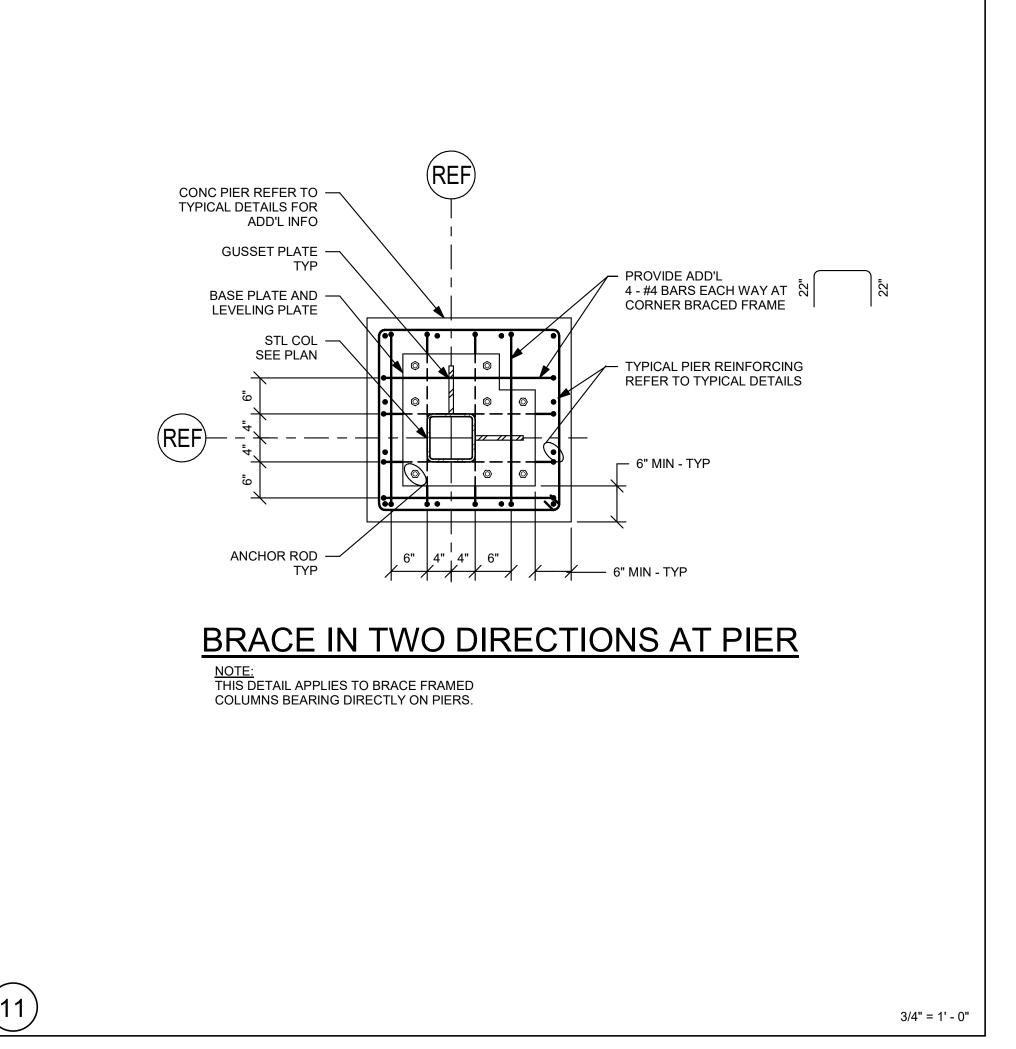


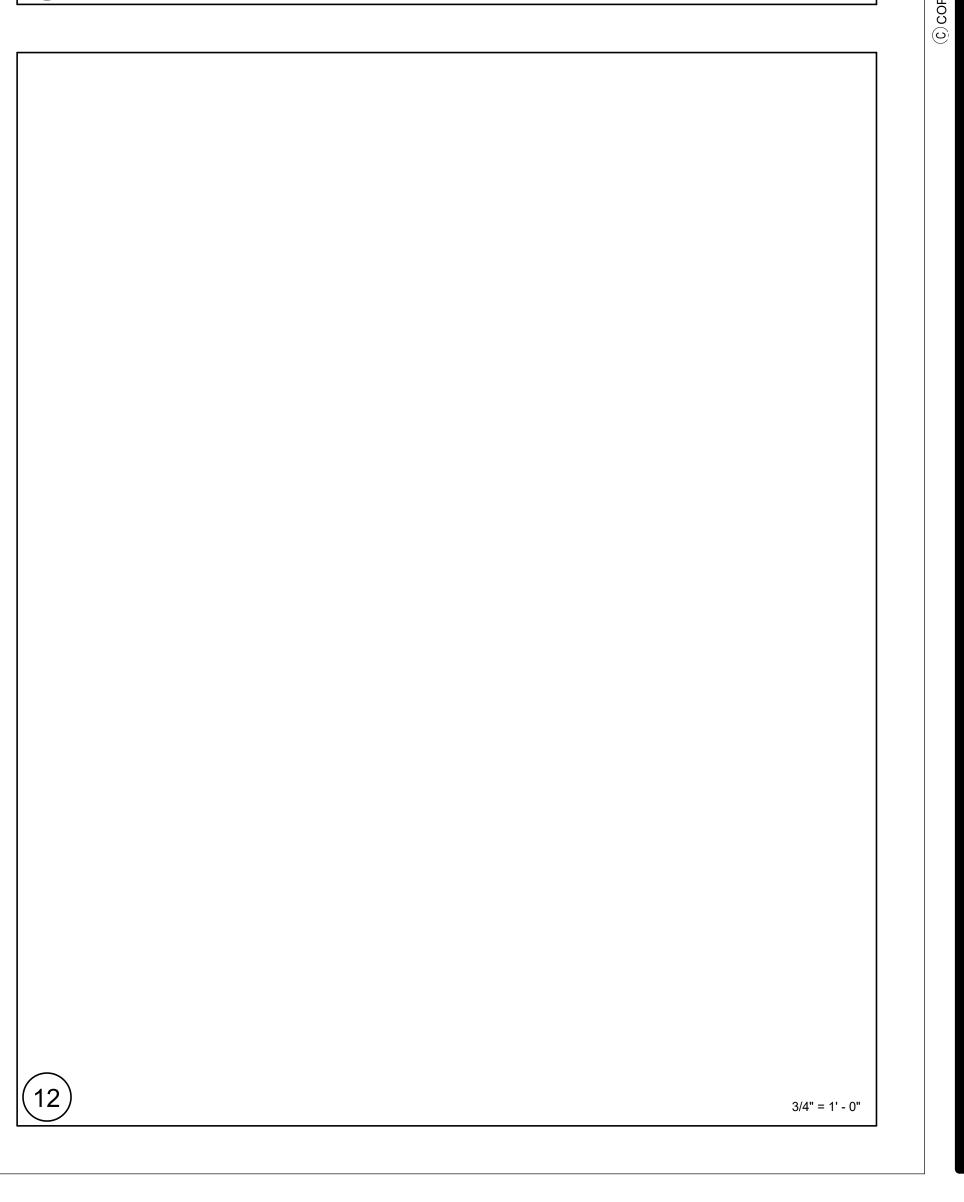














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Planning Architecture Interior

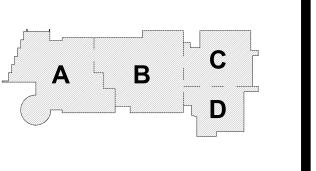
NORTHEAST METRO TECH

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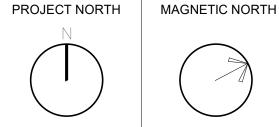
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KEY PLAN



ACED ERAME

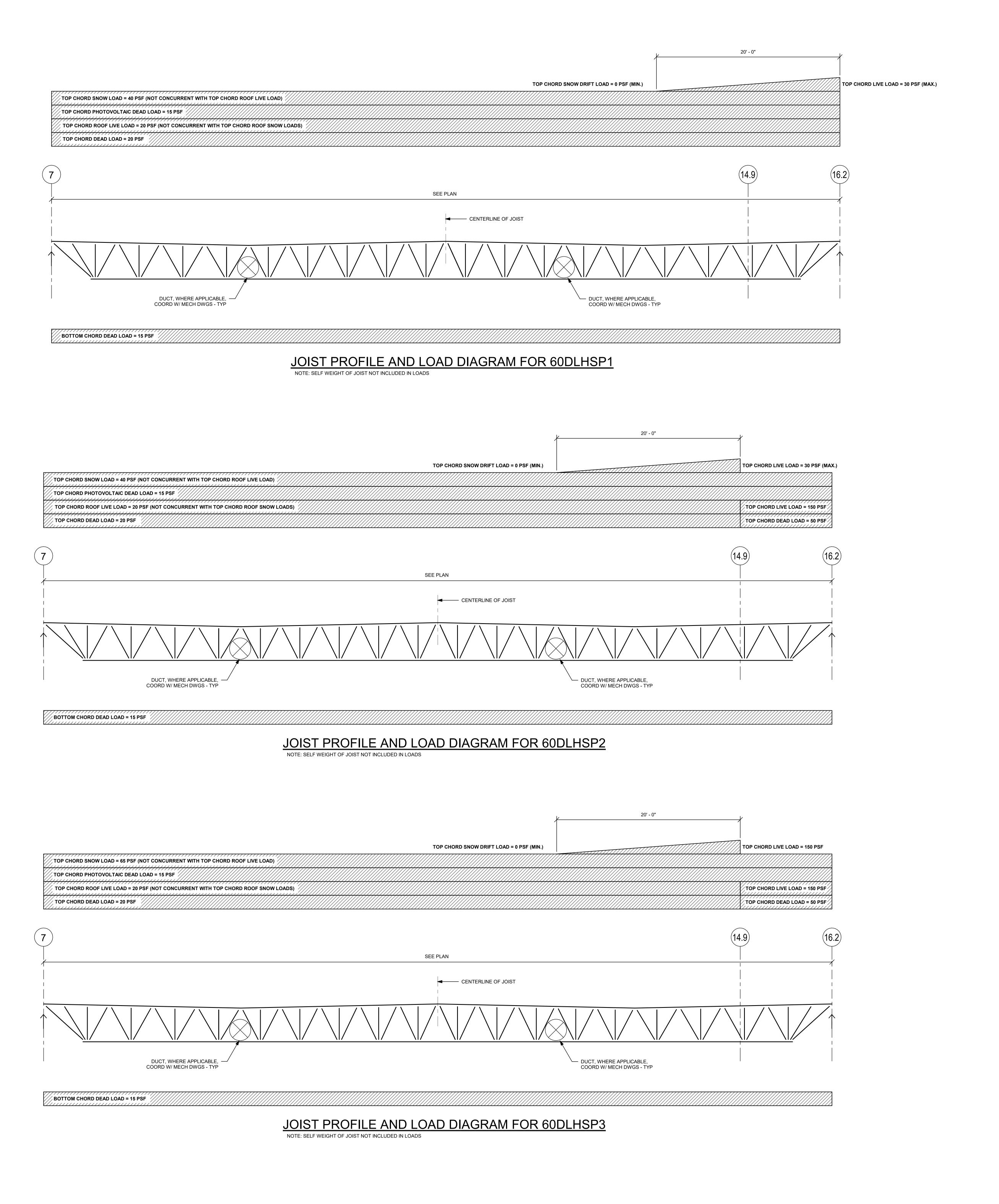
BRACED FRAME DETAILS

Scale: 3/4" = 1'-0"

Job No.: 20202

Drawn By: EDG

Date: 01/13/2023



JOIST NOTES:

- 1.) JOIST SEAT DEPTH VARIES (5" MIN) AT CENTERLINE OF BEARING. COORDINATE WITH TOP OF STEEL BEAM.
- 2.) IN ADDITION TO THE LOADS SHOWN IN THE DIAGRAMS, DESIGN JOISTS AT THE GYMNASIUM FOR CONCENTRATED LOADS FROM MOTORIZED GYMNASIUM CURTAIN BATTING CAGE AND BASKETBALL BACKSTOP SUPPORT POINTS. REFER TO THE ARCHITECTURAL AND CEILING DRAWINGS. REFER TO

MANUFACTURERS INFORMATION FOR LOAD MAGNITUDES AND LOCATIONS.

- 3.) REFER TO SPECIFICATIONS FOR UPLIFT LOAD ON THE JOISTS. DO NOT USE DESIGN DEAD LOAD TO OFFSET UPLIFT LOADS, ONLY SELF WEIGHT OF THE JOIST AND METAL ROOF DECK CAN BE USED TO OFFSET ANY UPLIFT LOADS.
- 4.) DESIGN FOR MAXIMUM LIVE LOADS DEFLECTION OF L / 360.
 5.) DESIGN ALL JOISTS FOR ADDITIONAL UPWARD LOAD OF 200 POUNDS
- AT FIRST PANEL POINT AT EACH END OF JOIST.
- 7.) DESIGN LOADS ARE ALLOWABLE STRESS DESIGN.
 8.) JOIST SHALL BE TOP CHORD, SINGLE PITCHED UNDER-SLUNG JOIST. JOISTS ARE SYMMETRICAL ABOUT THE MIDSPAN.
- 9.) JOIST WEB CONFIGURATION IS BY JOIST SUPPLIER. WEB CONFIGURATION SHALL BE COMPATIBLE WITH MECHANICAL DUCT LAYOUT AND CATWALK SUPPORTS.

6.) IN ADDITION TO THE SLOPE, PROVIDE CAMBER PER SJI.

- 10.) JOIST MANUFACTURER SHALL DESIGN AND ACCOUNT FOR JOIST CAMBER AND JOIST DEFLECTION TO LIMIT DIFFERENTIAL DEFLECTION OF ADJACENT JOISTS TO ALLOW FOR PROPER INSTALLATION OF MULTIPLE SPAN ROOF DECK WITHOUT FIELD CUTTING OF DECK. REDUCE CAMBER BY HALF AT JOISTS ADJACENT TOP STRUCTURAL STEEL FRAMING.
- 11.) ALIGN PANEL POINTS OF ALL JOISTS AS SHOWN IN JOIST PROFILES.

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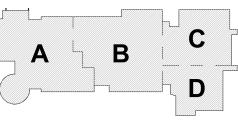
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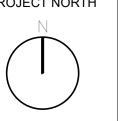
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH



JOIST LOADING DIAGRAMS

Scale: As indicated

Job No.: 20202

Drawn By: EDG

S5-0-1

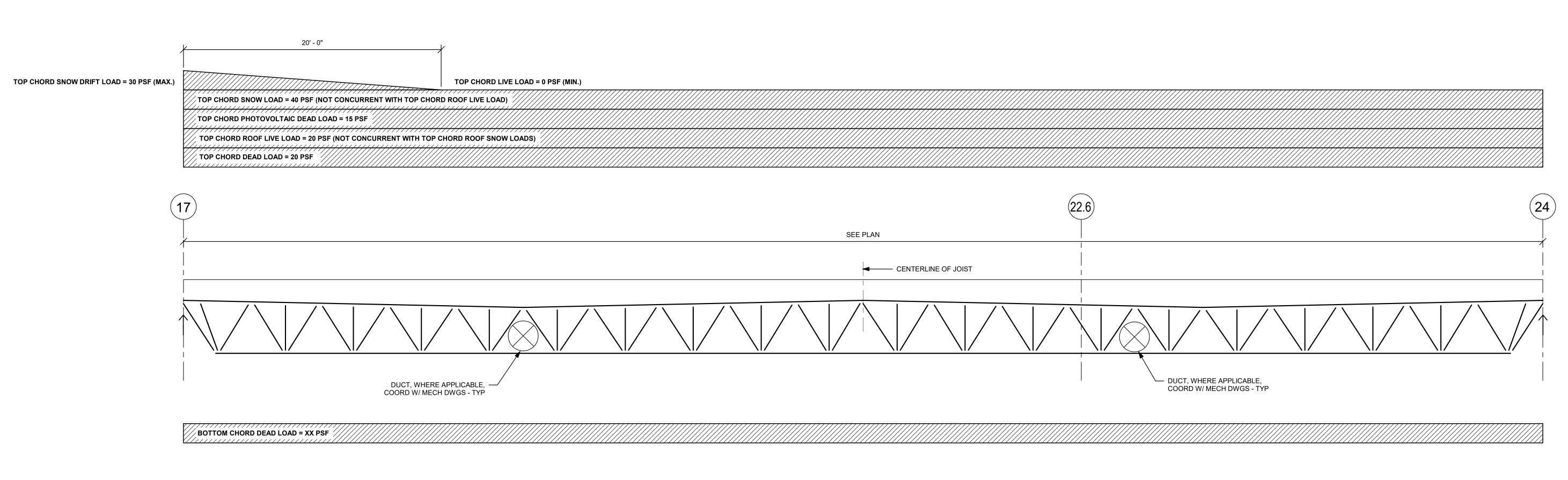
JOIST NOTES:

- 1.) JOIST SEAT DEPTH VARIES (5" MIN) AT CENTERLINE OF BEARING. COORDINATE WITH TOP OF STEEL BEAM.
- 2.) IN ADDITION TO THE LOADS SHOWN IN THE DIAGRAMS, DESIGN JOISTS AT THE GYMNASIUM FOR CONCENTRATED LOADS FROM MOTORIZED GYMNASIUM CURTAIN BATTING CAGE AND BASKETBALL BACKSTOP SUPPORT POINTS. REFER TO THE ARCHITECTURAL AND CEILING DRAWINGS. REFER TO MANUFACTURERS INFORMATION FOR LOAD MAGNITUDES AND LOCATIONS.
- 3.) REFER TO SPECIFICATIONS FOR UPLIFT LOAD ON THE JOISTS. DO NOT USE DESIGN DEAD LOAD TO OFFSET UPLIFT LOADS, ONLY SELF WEIGHT OF THE JOIST AND METAL ROOF DECK CAN BE USED TO
- OFFSET ANY UPLIFT LOADS.

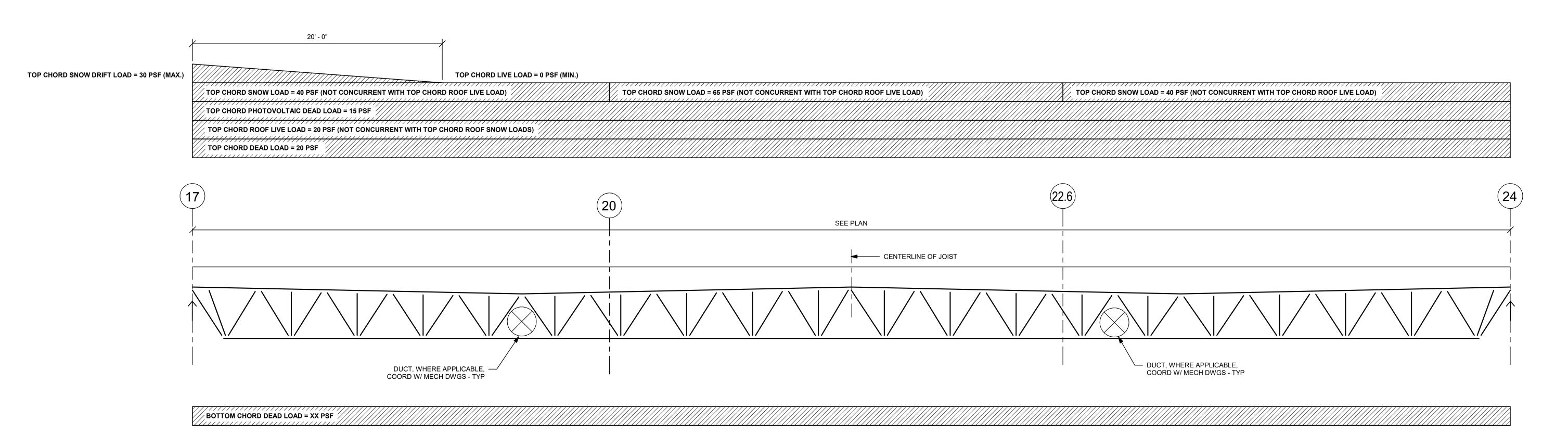
 4.) DESIGN FOR MAXIMUM LIVE LOADS DEFLECTION OF L / 360.
- 5.) DESIGN ALL JOISTS FOR ADDITIONAL UPWARD LOAD OF 200 POUNDS AT FIRST PANEL POINT AT EACH END OF JOIST.
- 6.) IN ADDITION TO THE SLOPE, PROVIDE CAMBER PER SJI.7.) DESIGN LOADS ARE ALLOWABLE STRESS DESIGN.
- 8.) JOIST SHALL BE TOP CHORD, SINGLE PITCHED UNDER-SLUNG JOIST.
- 9.) JOIST WEB CONFIGURATION IS BY JOIST SUPPLIER. WEB CONFIGURATION SHALL BE COMPATIBLE WITH MECHANICAL DUCT LAYOUT AND CATWALK SUPPORTS.

JOISTS ARE SYMMETRICAL ABOUT THE MIDSPAN.

- 10.) JOIST MANUFACTURER SHALL DESIGN AND ACCOUNT FOR JOIST CAMBER AND JOIST DEFLECTION TO LIMIT DIFFERENTIAL DEFLECTION OF ADJACENT JOISTS TO ALLOW FOR PROPER INSTALLATION OF MULTIPLE SPAN ROOF DECK WITHOUT FIELD CUTTING OF DECK. REDUCE CAMBER BY HALF AT JOISTS ADJACENT TOP STRUCTURAL STEEL FRAMING.
- 11.) ALIGN PANEL POINTS OF ALL JOISTS AS SHOWN IN JOIST PROFILES.



JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP4 NOTE: SELF WEIGHT OF JOIST IS NOT INCLUDED IN LOADS



JOIST PROFILE AND LOAD DIAGRAM FOR 60DLHSP5
NOTE: SELF WEIGHT OF JOIST IS NOT INCLUDED IN LOADS

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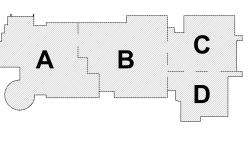
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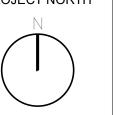
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KEY PLAN

PROJECT NORTH MAGNETIC NORTH



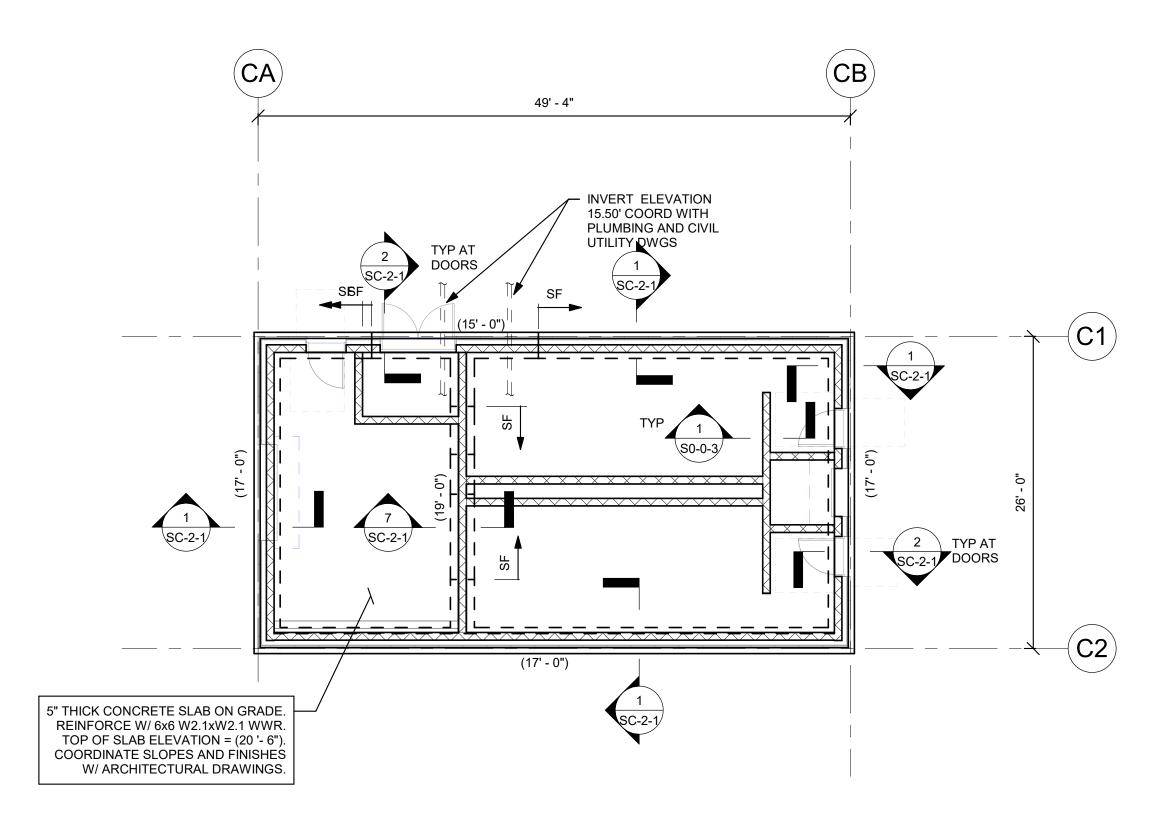
JOIST LOADING DIAGRAMS

Scale: As indicated

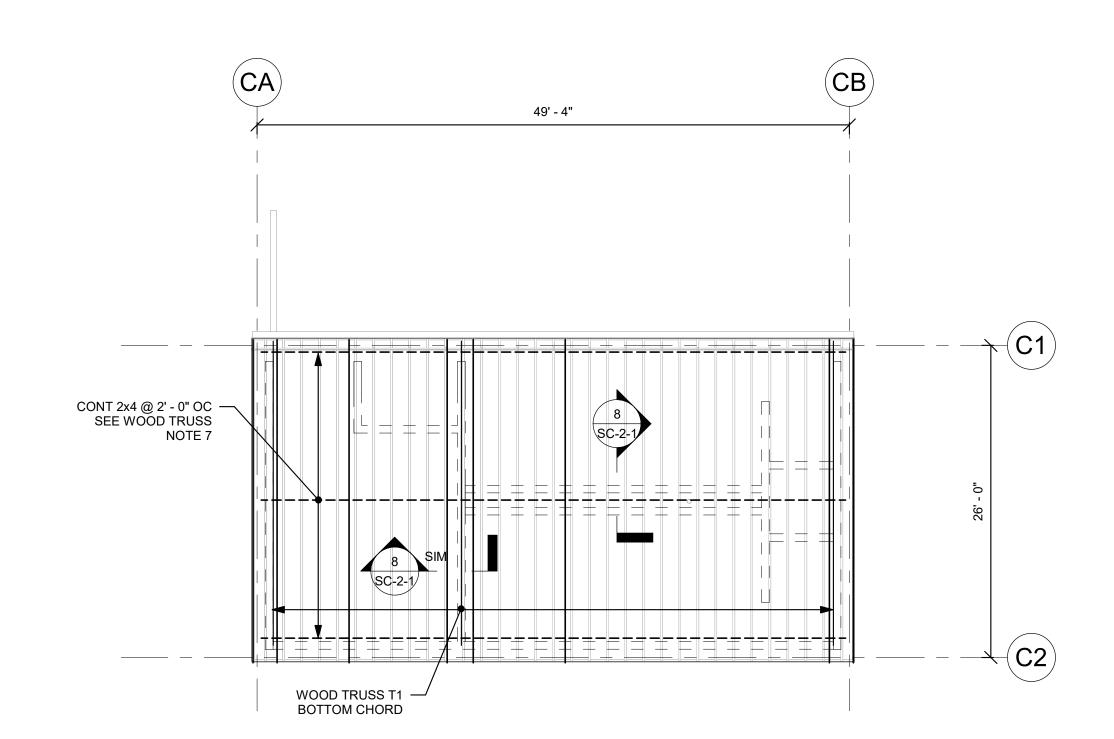
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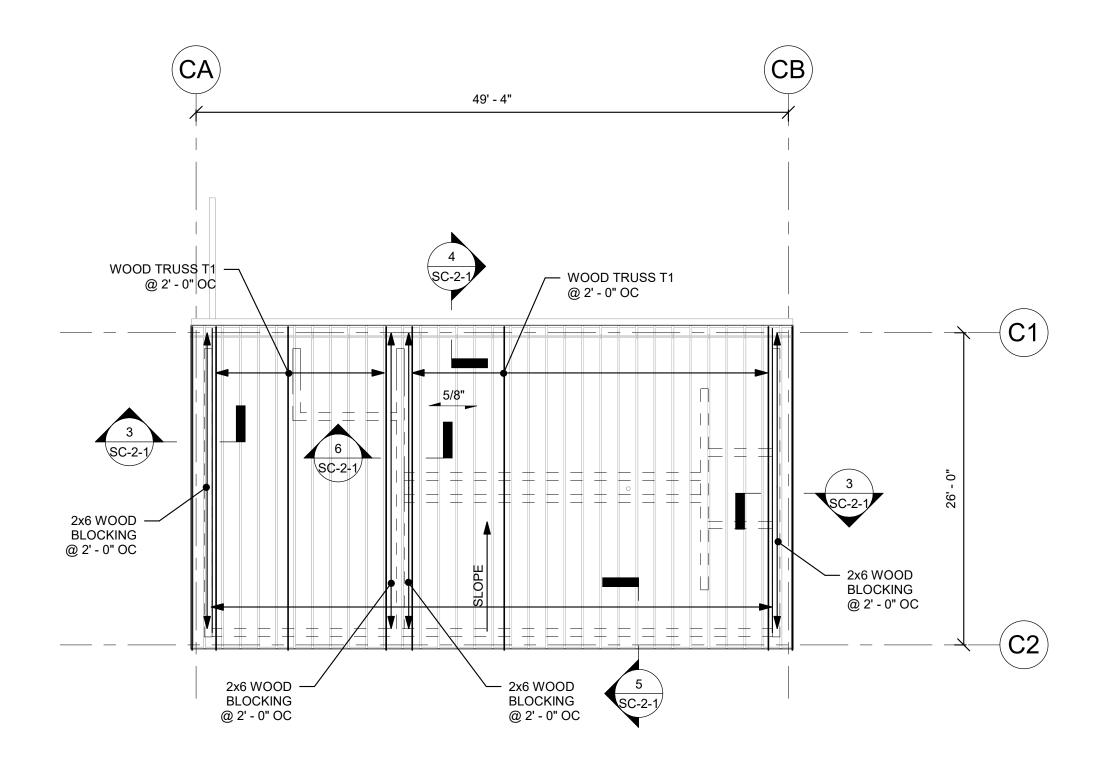
S5-0-2



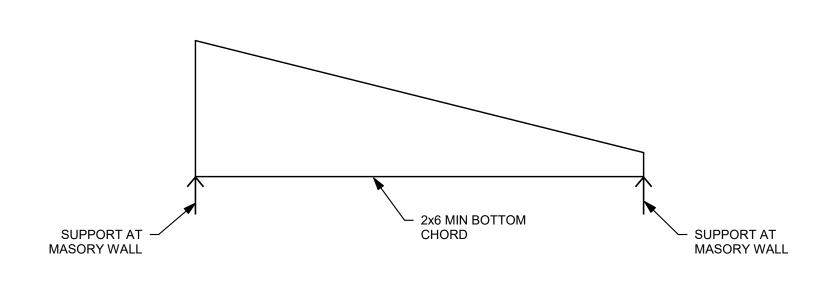
CONCESSION BUILDING GROUND FLOOR PLAN



CONCESSION BUILDING CEILING PLAN



CONCESSION BUILDING ROOF PLAN



WOOD TRUSS TYPE T1

WOOD TRUSS NOTES:

- 1.) TRUSS CONFIGURATIONS ARE DIAGRAMMATIC AND NOT TO SCALE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LENGTHS AND CONDITIONS.
- REVIEW MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL EQUIPMENT LOADS.
- 3.) EXCEPT AS SHOWN OTHERWISE, DESIGN TRUSSES FOR THE FOLLOWING MINIMUM UNIFORM DESIGN LOADS:

 TRUSS TYPE T1
- (SEE GENERAL NOTES ON S0-0-1 FOR WIND AND SEISMIC DESIGN CRITERIA)
- 4.) DESIGN AND PROVIDE ALL TEMPORARY ERECTION RESTRAINTS / BRACING.
 5.) DESIGN AND PROVIDE ALL PERMANENT RESTRAINT / BRACING FOR WEB
- 6.) OSB STRUCTURAL USE SHEATHING PROVIDES PERMANENT BRACING FOR THE TOP CHORD WHERE SHOWN.

MEMBERS AS REQUIRED FOR A PERMANENT INSTALLATION.

- 7.) PROVIDE CONTINUOUS 2x4 @ 2' 0" ON CENTER (MAX.) FOR LATERAL BRACING OF TRUSS BOTTOM CHORD
- 8.) IN ADDITION TO WOOD BLOCKING SHOWN ON PLANS, PROVIDE 2x BLOCKING BETWEEN TOP CHORD OF TRUSSES AT EACH PANEL POINT. 2x BLOCKING
- SIZE TO MATCH TOP CHORD OF TRUSS.

 9.) WHERE TRUSSES ARE TO BE SUPPLIED IN MORE THAN ONE PIECE, OR HINGED, DESIGN

AND PROVIDE ALL NECESSARY BRACING CONNECTIONS AND ACCESSORIES.

10.) REFER TO GENERAL NOTES ON DRAWING S0-0-1 FOR ADDITIONAL REQUIREMENTS.

11.)	DESIGN AND PROVIDE UPLIFT CONNECTORS. CONNECTORS SHOWN
	ARE MINIMUM REQUIREMENTS.

OSB STUCTURAL PANEL NAILING SCHEDULE (EXCEPT AS NOTED OTHERWISE)		
AT PANEL EDGE BOUNDARIES	10d COMMON NAILS AT 6" OC	
AT OTHER PANEL EDGES	10d COMMON NAILS AT 6" OC	
AT INTERMEDIATE PANEL SUPPORTS	10d COMMON NAILS AT 10" OC	

FRAMING NOTES:

- 1.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 2.) 5/8" INDICATES SPAN DIRECTION OF 5/8" ROOF SHEATHING. PROVIDE APA RATED STRUCTURAL SHEATHING EXPOSURE 1 PLYWOOD OR OSB.
- 3.) T1 ETC... INDICATES A PRE-FABRICATED WOOD TRUSS. SEE THIS DRAWING FOR TRUSS CONFIGURATION AND LOADING INFORMATION. MAXIMUM TRUSS SPACING EQUALS 2' 0" ON CENTER.
- 4.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

FOUNDATION NOTES:

- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS
 THE STRUCTURAL DRAWINGS USES A DATUM OF 100'- 0" AT THE MAIN
 FLOOR, WHICH CORRESPONDS TO 163.50' MEAN SEA LEVEL, AS SHOWN
 ON THE SITE AND CIVIL DRAWINGS.
- 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 3.) F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- 4.) TOP OF FOOTING ELEVATION TO BE 3' 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (XX' XX") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 6.) SF INDICATES A STEPPED FOOTING REFER TO DETAIL1 ON DRAWING S0-0-2.
- 7.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- 8.) INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- 9.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 10.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL
 OR 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS
 OR AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL
 WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
- 11.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

└ - ┘ SHEAR WALLS TO THE STRUCTURE.

12.) ← □ → INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.

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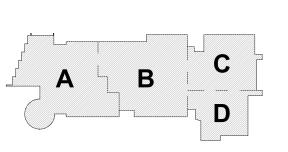
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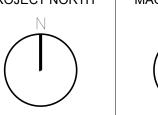
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01/13/2023



KEY PLAN

PROJECT NORTH MAGNETIC NORTH



CONCESSION BUILDING PLANS

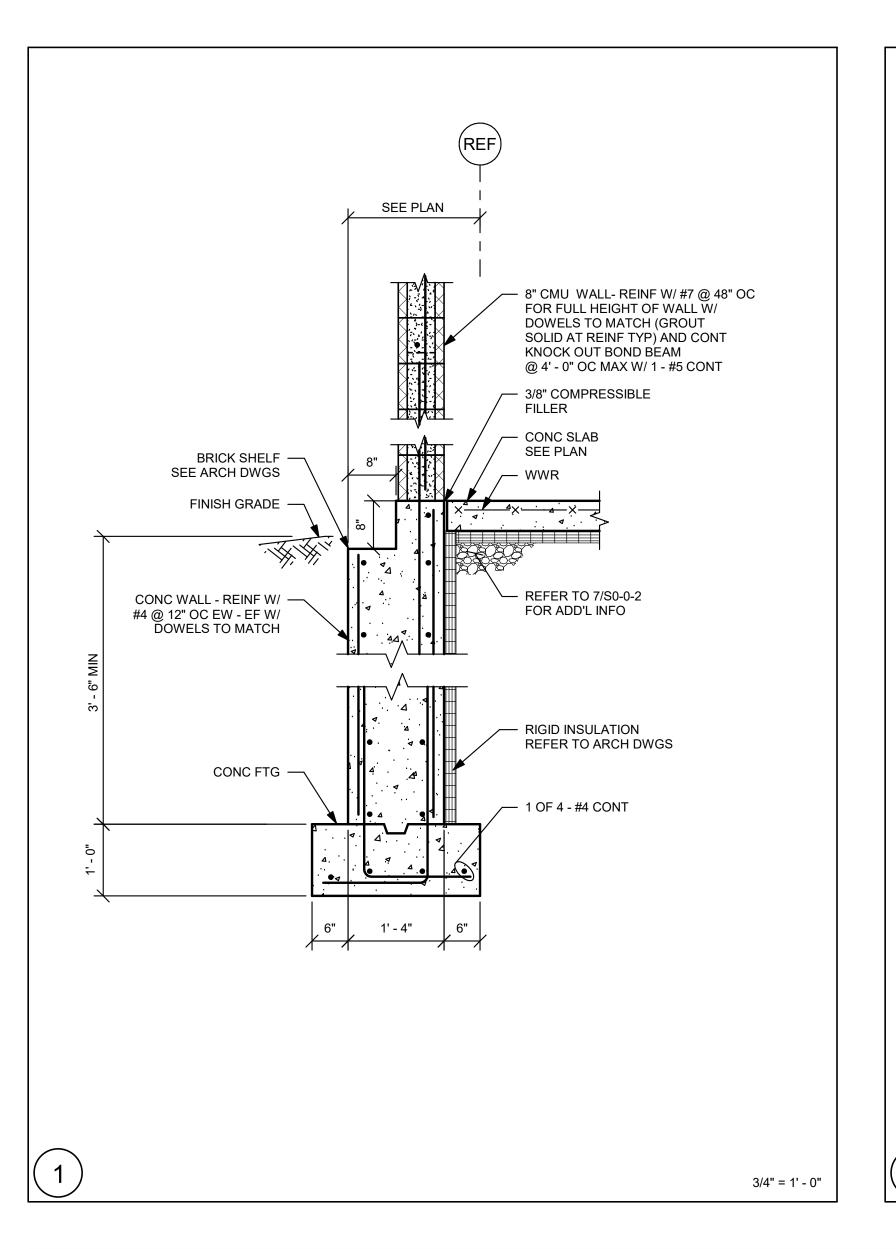
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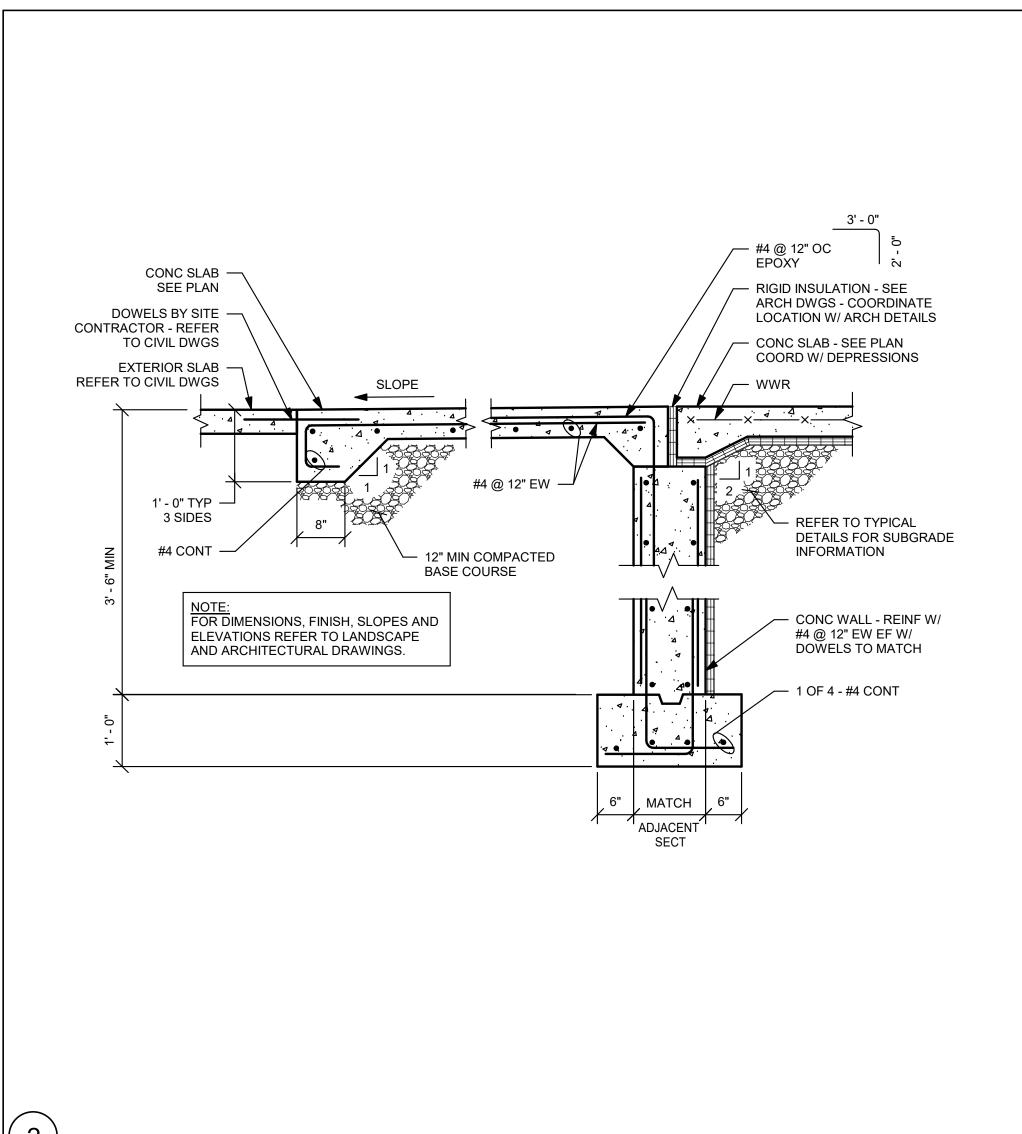
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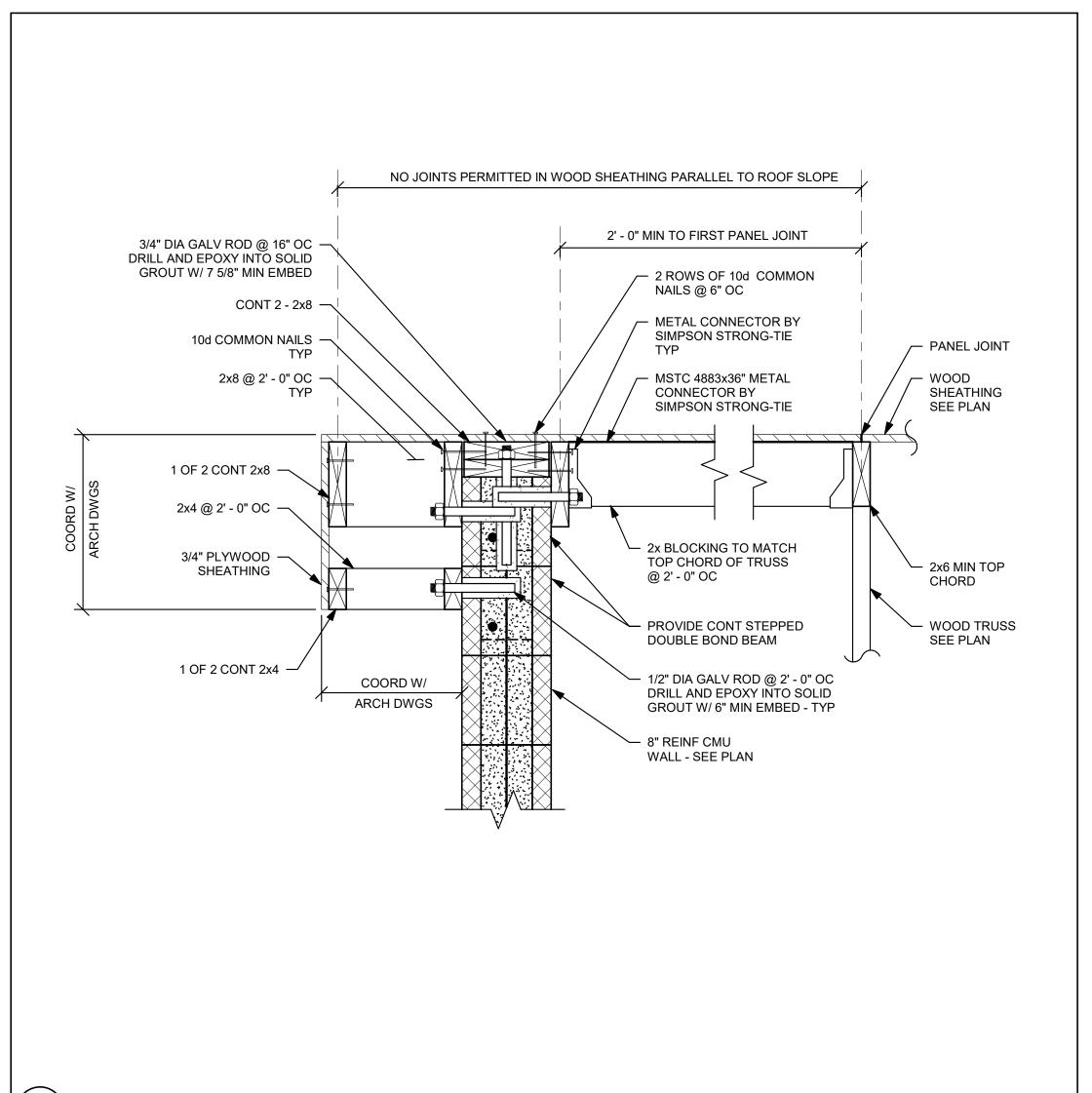
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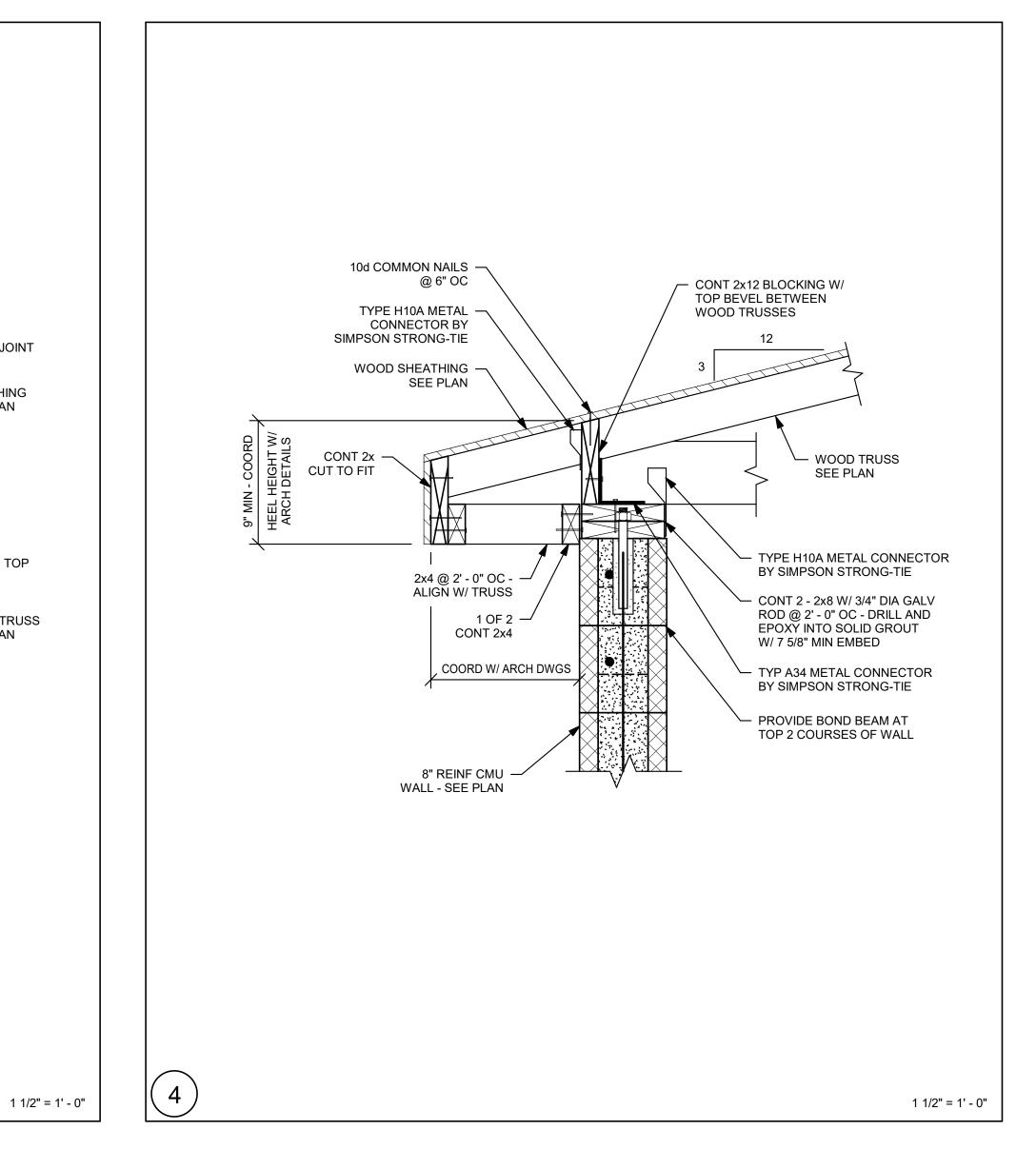
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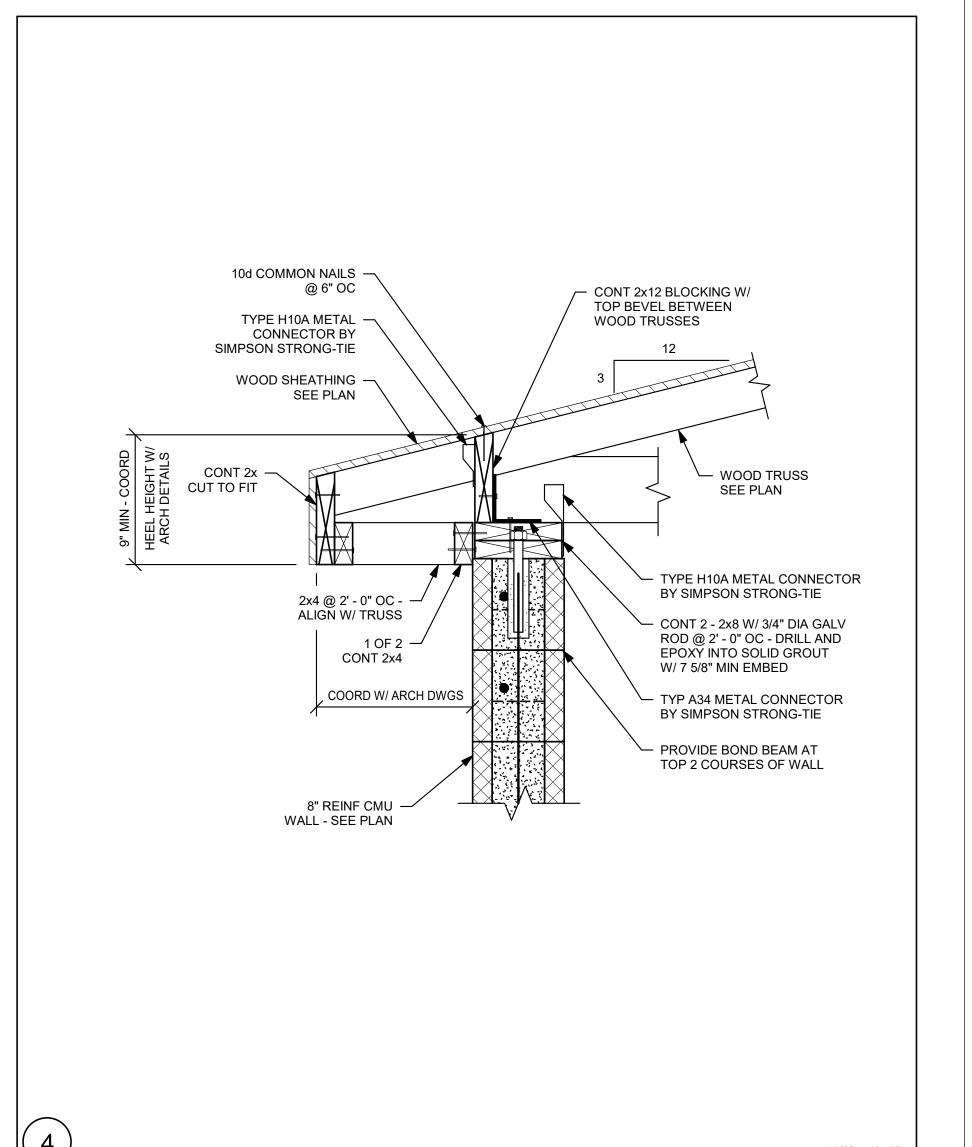
SC-1-1

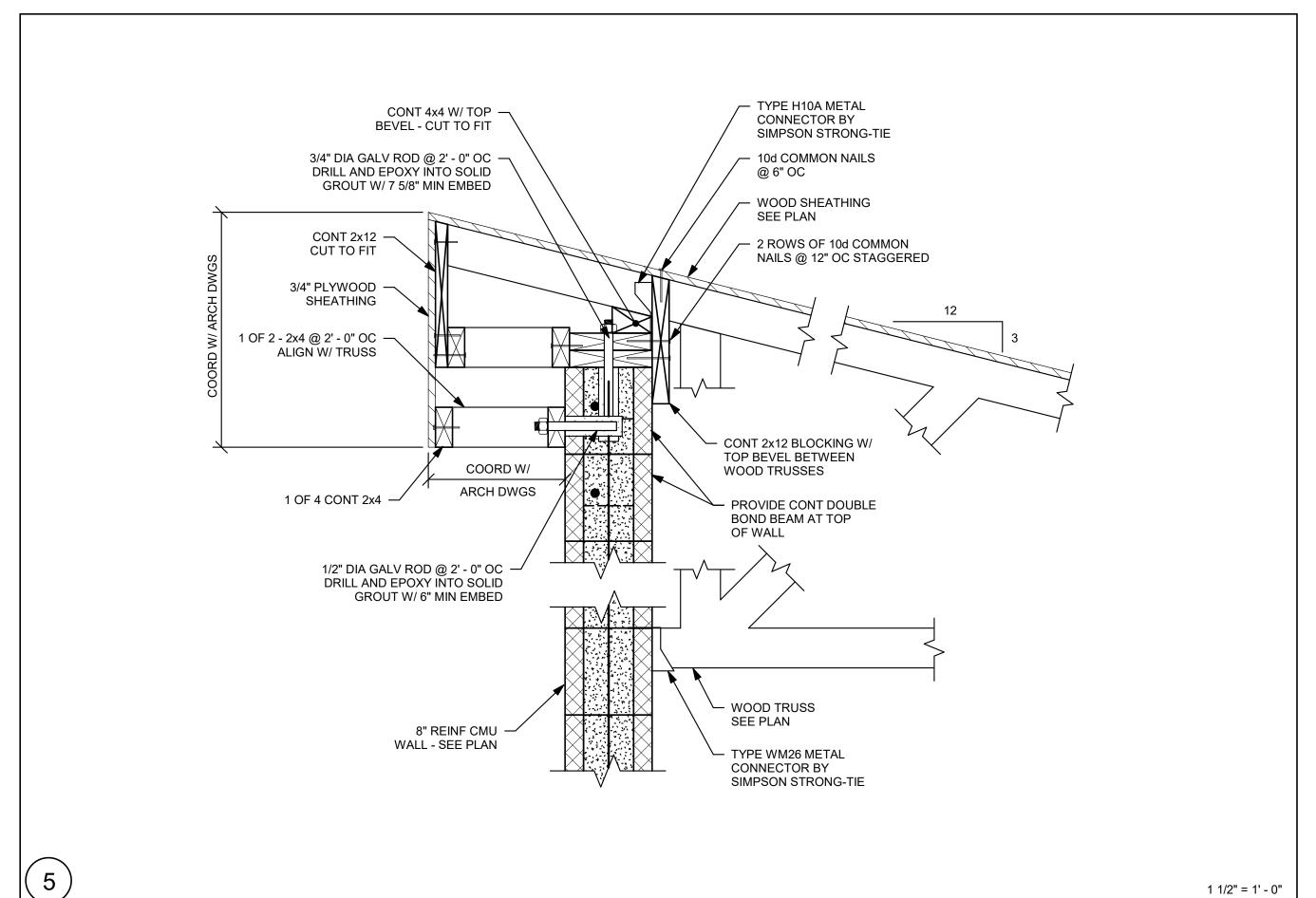


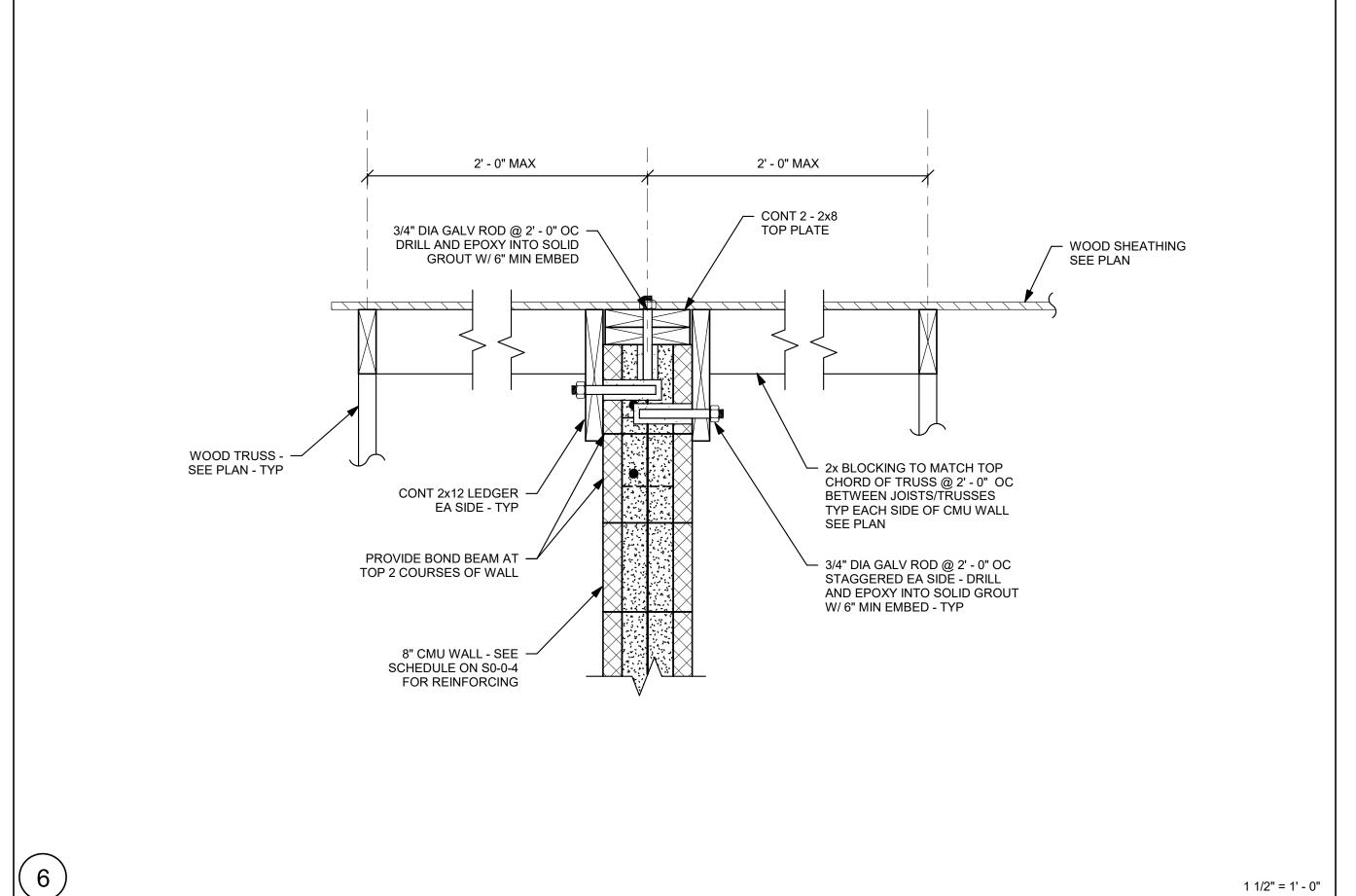




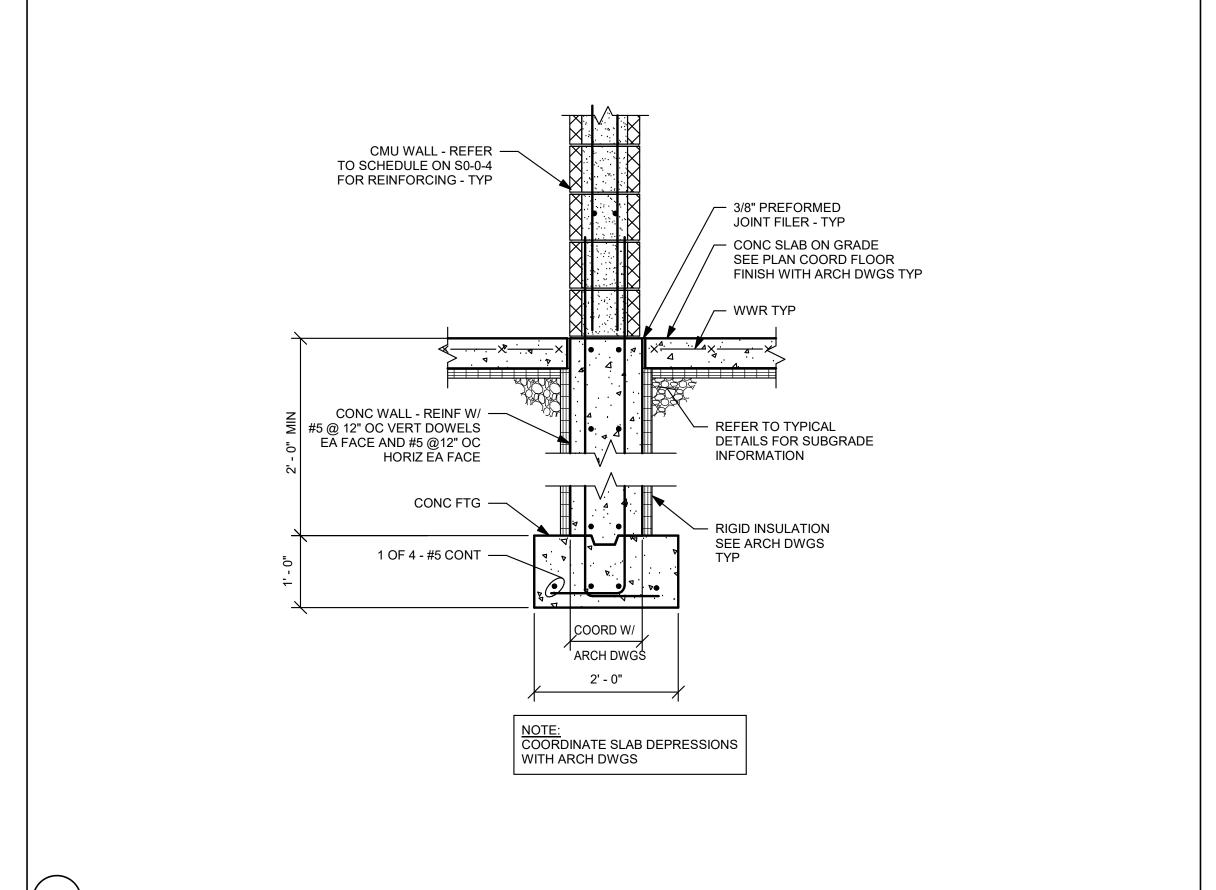


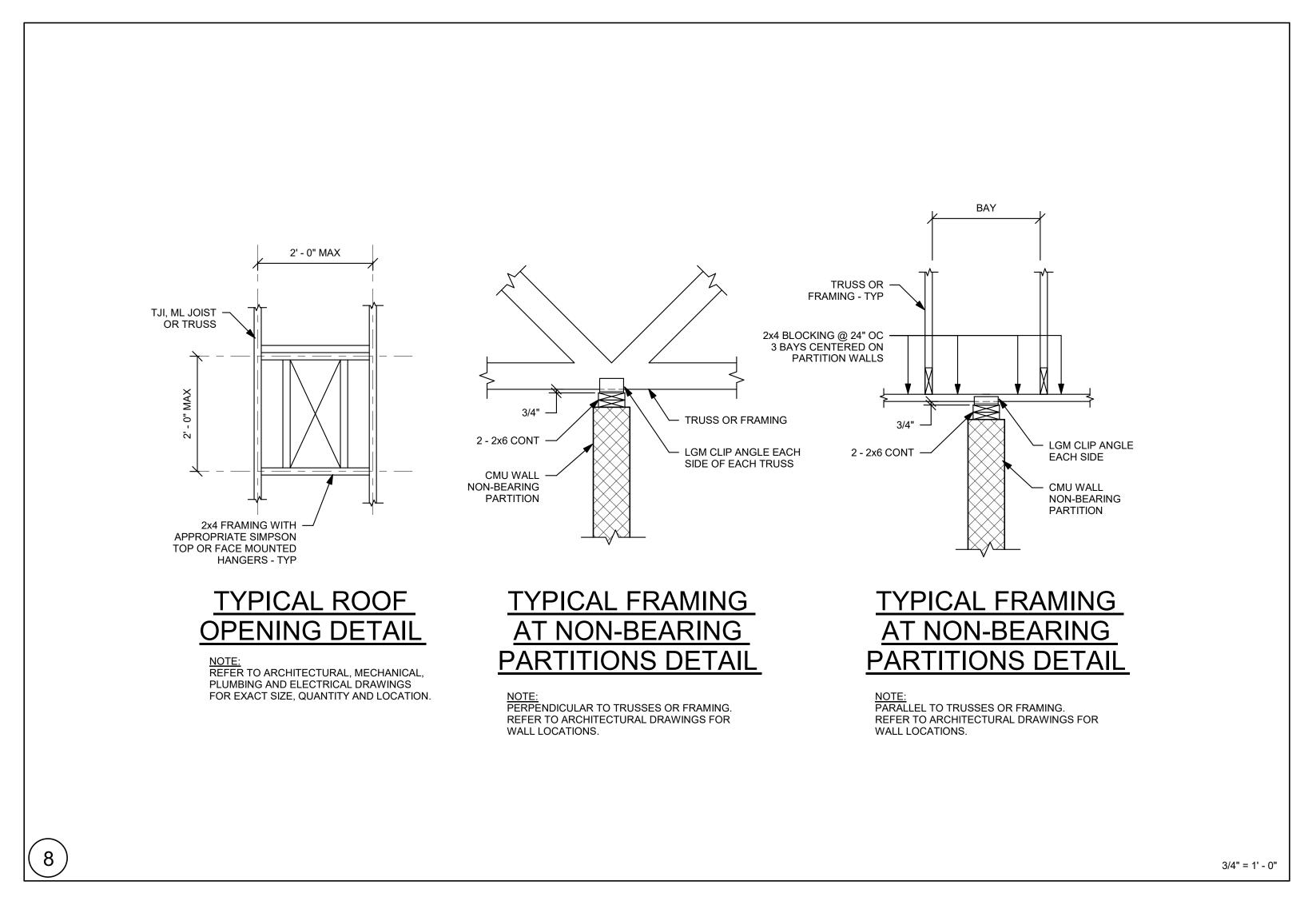


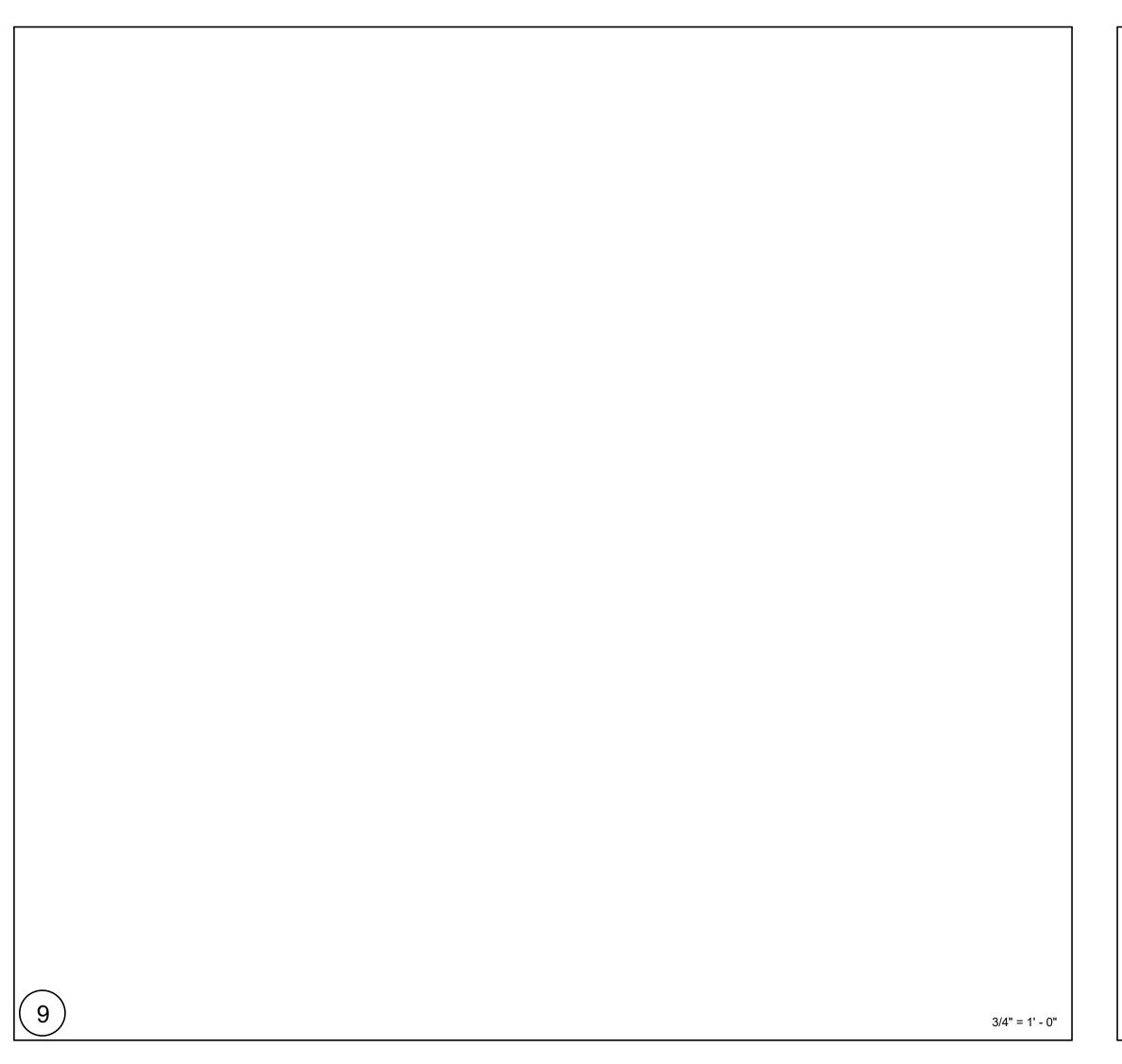


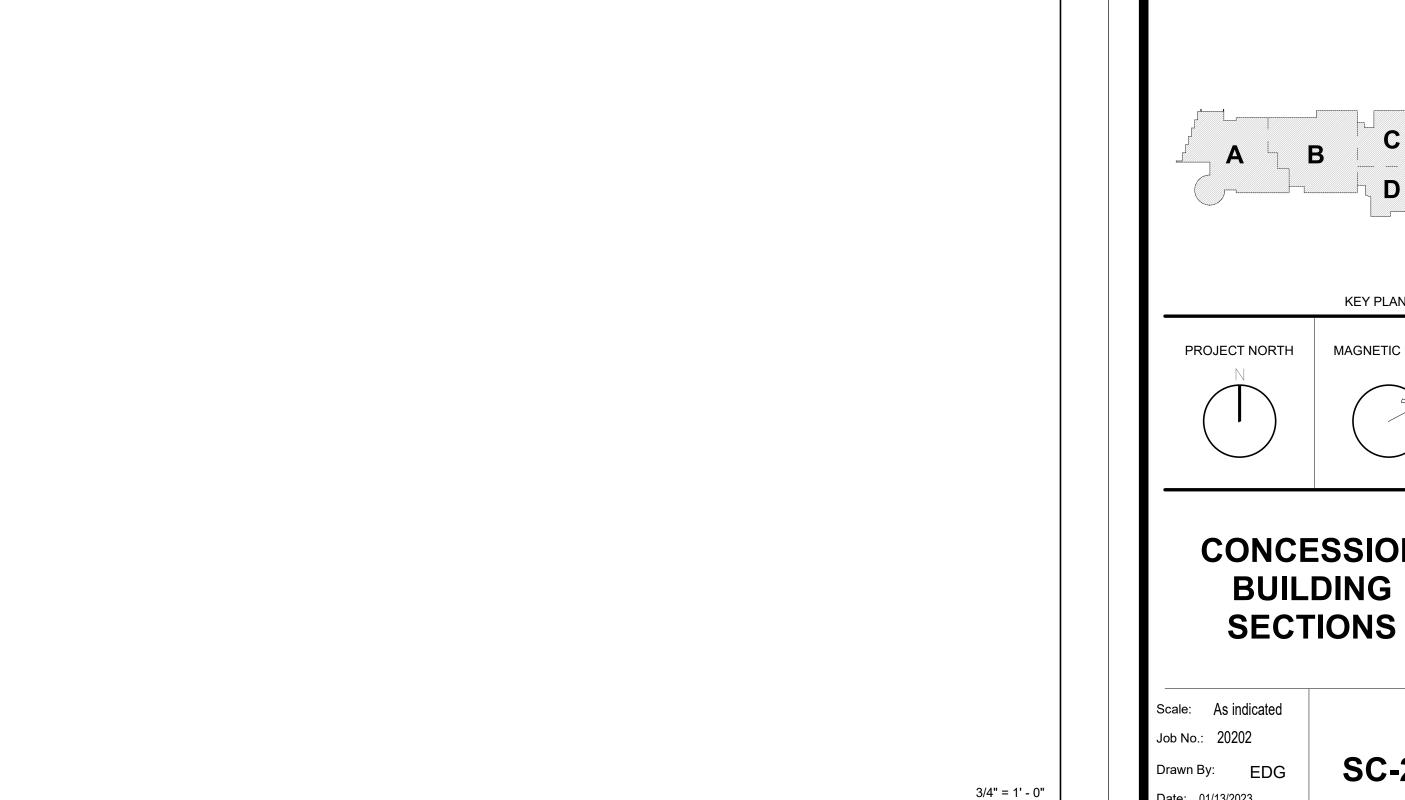


3/4" = 1' - 0"











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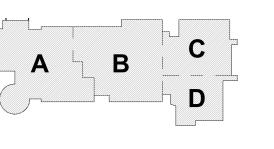
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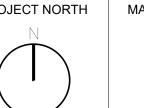
MSBA 60% CD Submission

3/4" = 1' - 0"

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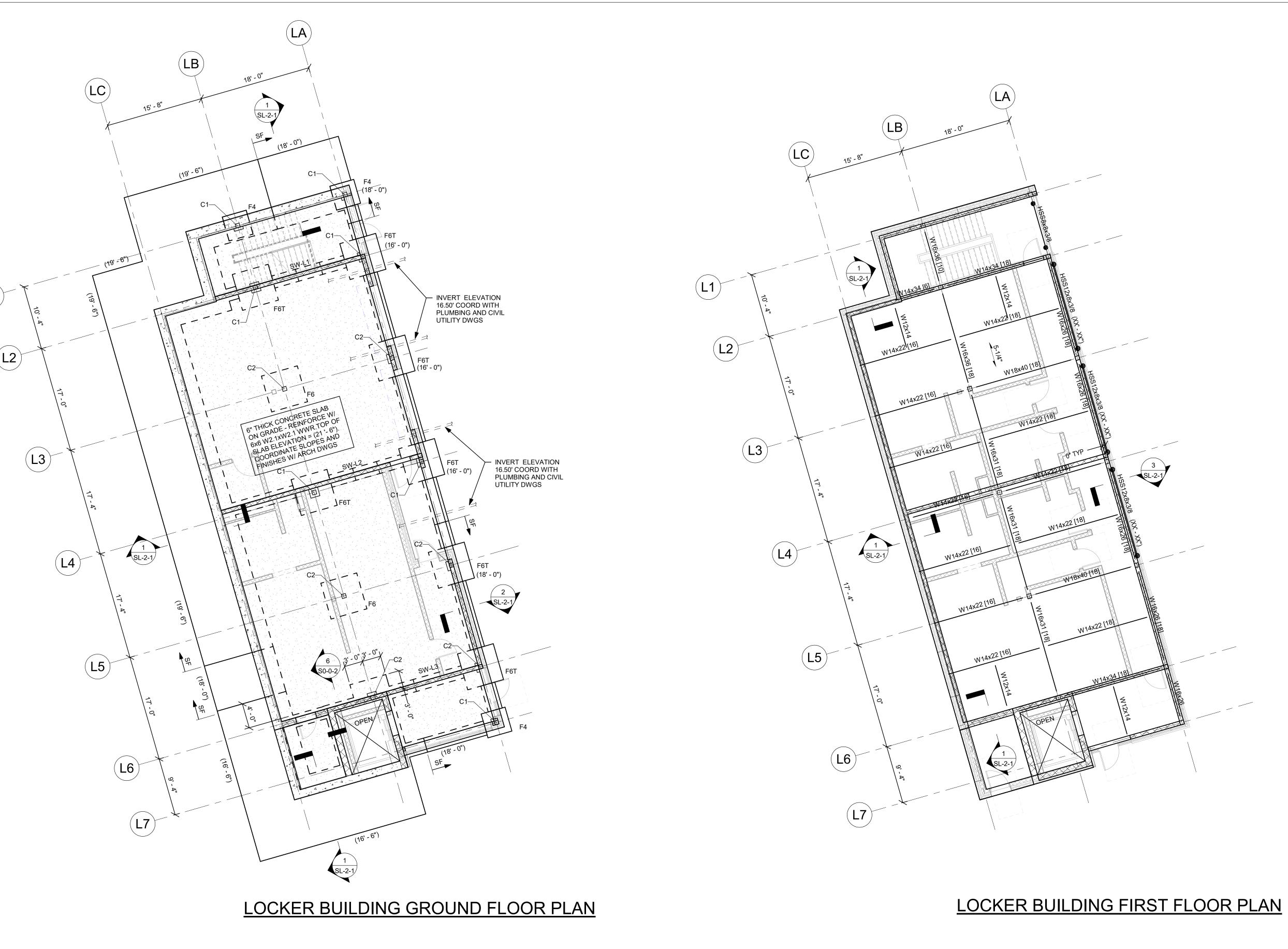


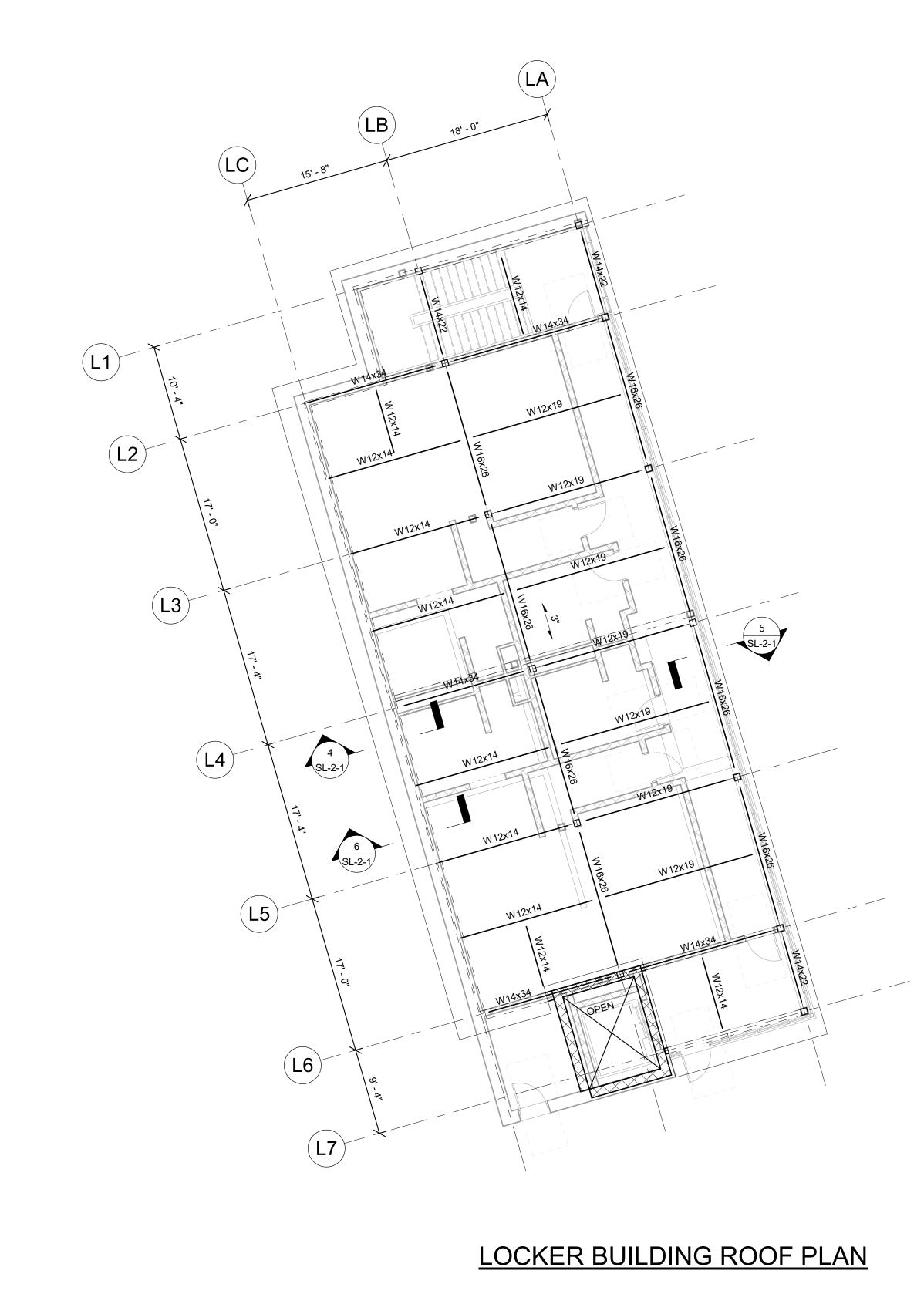
KEY PLAN MAGNETIC NORTH



CONCESSION **BUILDING**

SC-2-1





- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS THE STRUCTURAL DRAWINGS USES A DATUM OF 100'- 0" AT THE MAIN FLOOR, WHICH CORRESPONDS TO 163.50' MEAN SEA LEVEL, AS SHOWN ON THE SITE AND CIVIL DRAWINGS.
- 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.

FOUNDATION NOTES:

- 3.) F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- 4.) TOP OF FOOTING ELEVATION TO BE 3' 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' - 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (XX' - XX") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 6.) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- 7.) SF INDICATES A STEPPED FOOTING REFER TO DETAIL1 ON DRAWING S0-0-2.
- 9.) BOTTOM OF BASE PLATE ELEVATION TO BE 1' 5" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0' - 11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS [XX' - XX"] REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- 10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS. 11.) "" INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON
- 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.

ARCHITECTURAL DRAWINGS.

- 13.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL OR 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
 SHEAR WALLS TO THE STRUCTURE.
- 14.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.
- CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL STRUCTURAL DETAILS.
- 17.) CONCRETE PIER REINFORCING PER DETAIL 5 ON DRAWING S0-0-2 IS TO BE PROVIDED FOR ALL CONCRETE WALLS SUPPORTING COLUMNS. HORIZONTAL WALL REINFORCING MUST REMAIN CONTINUOUS.

FRAMING NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5 , S0-0-6, S0-0-7 AND S0-0-8.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND VERTICAL DIMENSIONS. PITCH ALL STEEL UNIFORMLY TO LOW POINTS AT THE COLUMNS
- AND BENT BEAMS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. [XX] INDICATES THE NUMBER OF 3/4" DIAMETER x 3 1/2" LONG
- HEADED STUDS WELDED TO THE TOP FLANGE OF THE BEAM. SPACE STUDS EVENLY ALONG THE BEAM UNLESS NOTED OTHERWISE.

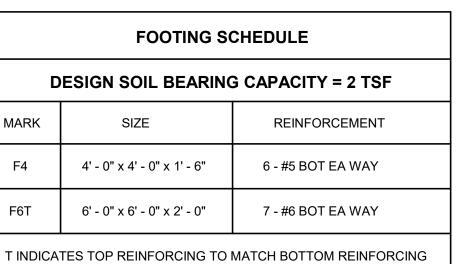
TYPICAL DETAIL 2 ON DRAWING S0-0-7.

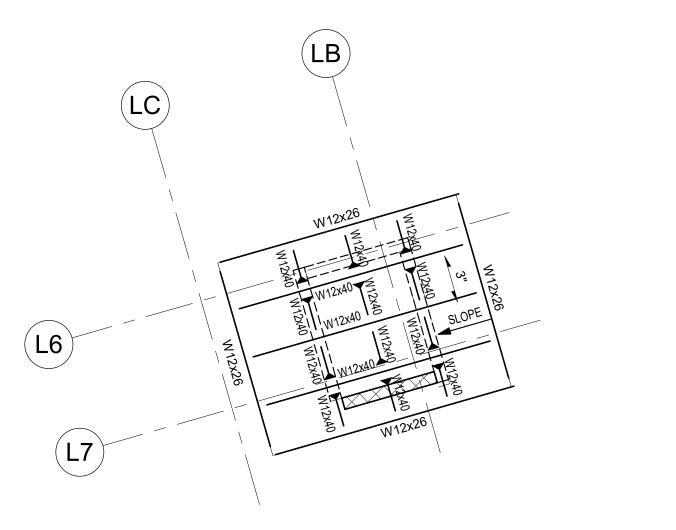
- 4.) INDICATES A MOMENT CONNECTION TO DEVELOP THE FULL CAPACITY OF THE MEMBER. REFER TO TYPICAL DETAILS 7, 8 AND 9 ON DRAWING ON DRAWING S0-0-6.
- 5.) INDICATES A 5/16" FILLET WELD ALL AROUND. (HSS BEAM TO HSS COLUMN) WHERE BEAM DIMENSIONS EXCEED COLUMN DIMENSIONS PROVIDE 1/2" THICK STEEL CAP PLATE TO ACHIEVE ALL AROUND WELD. REFER TO
- 6.) < X" > INDICATES UPWARD CAMBER AT THE MID-SPAN OF THE MEMBER. 7.) 4 1/2" INDICATES SPAN DIRECTION OF 2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL DECK WITH 2 1/2" NORMAL WEIGHT CONCRETE TOPPING. TOTAL THICKNESS = 4 1/2". REINFORCE WITH
- 6x6 W2.1xW2.1 WWR.
- 8.) INDICATES SPAN DIRECTION OF 1 1/2" DEEP, 20 GAGE TYPE B, GALVANIZED STEEL ROOF DECK. 9.) - 3 INDICATES SPAN DIRECTION OF 3" DEEP, 20 GAGE TYPE N,

GALVANIZED STEEL ROOF DECK.

- 10.) FOR EXACT NUMBER, SIZE, AND LOCATION OF OPENING IN STEEL DECKING REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS. FOR FRAMING
- INFORMATION, REFER TO DETAIL 1 AND 2
- INDICATES A ROOF DRAIN. REFER TO TYPICAL STRUCTURAL DETAILS 1 AND 8 11.) ON DRAWING S0-0-6 AND DETAIL 1 ON DRAWING S0-0-8. FOR DECKING SUPPORT, REFER TO DETAIL 4 ON DRAWING S0-0-5. REFER TO PLUMBING AND ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS.
- 12.) CT INDICATES A COLUMN TERMINATES AT THIS LEVEL.
- INDICATES A BEND IN THE STEEL BEAM. REFER TO TYPICAL DETAIL 8 ON DRAWING S0-0-8. INDICATES A CMU WALL. REFER TO TYPICAL DETAIL
- 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
 4 ON DRAWING S0-0-6 FOR CONNECTIONS TO STEEL BEAMS
 AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
- 15.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER TO ARCHITECTURAL DRAWINGS.

OR SHEAR WALLS TO THE STRUCTURE.









Drummey Rosane Anderson, Inc. South Windsor, CT

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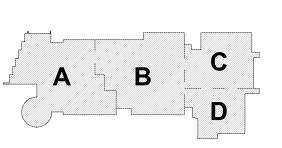
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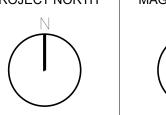
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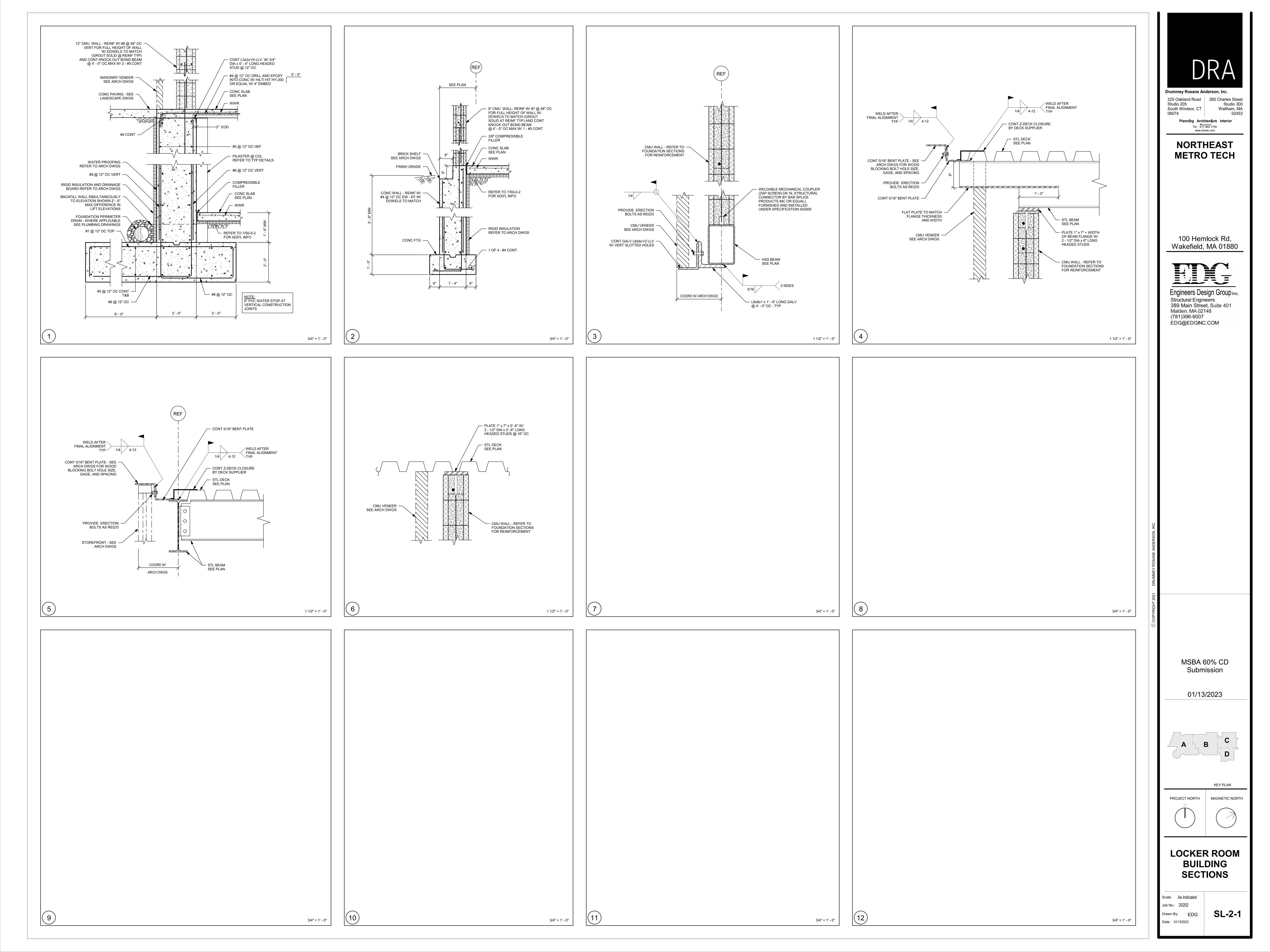
PROJECT NORTH MAGNETIC NORTH

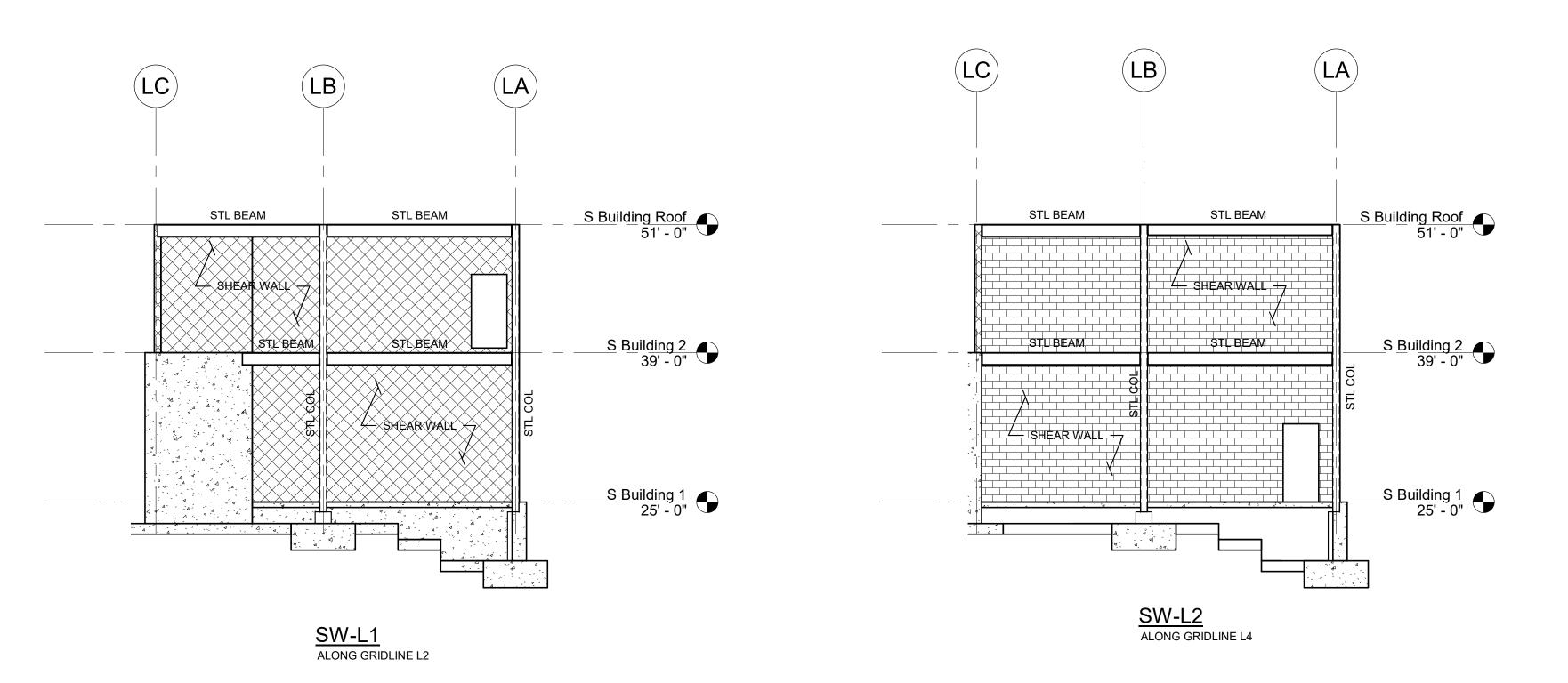


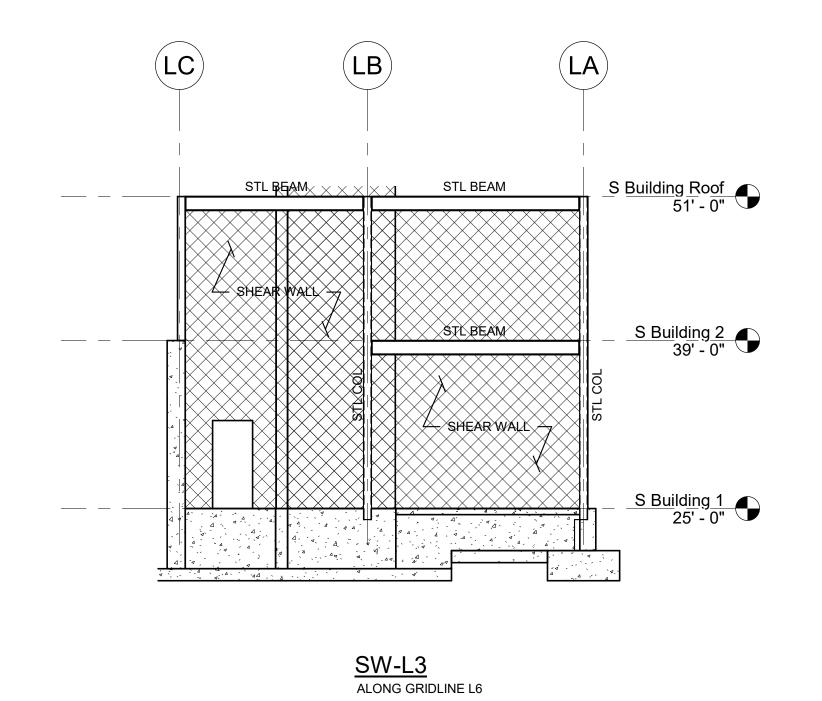
LOCKER BUILDING PLANS

Scale: 1/8" = 1'-0" Drawn By: EDG

Date: 01/13/2023







DRA

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NORTHEAST METRO TECH

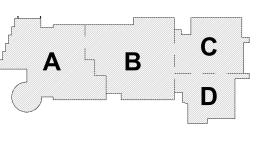
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MSBA 60% CD Submission

01/13/2023



KEY PLAN

RTH MAGNETIC NORTH



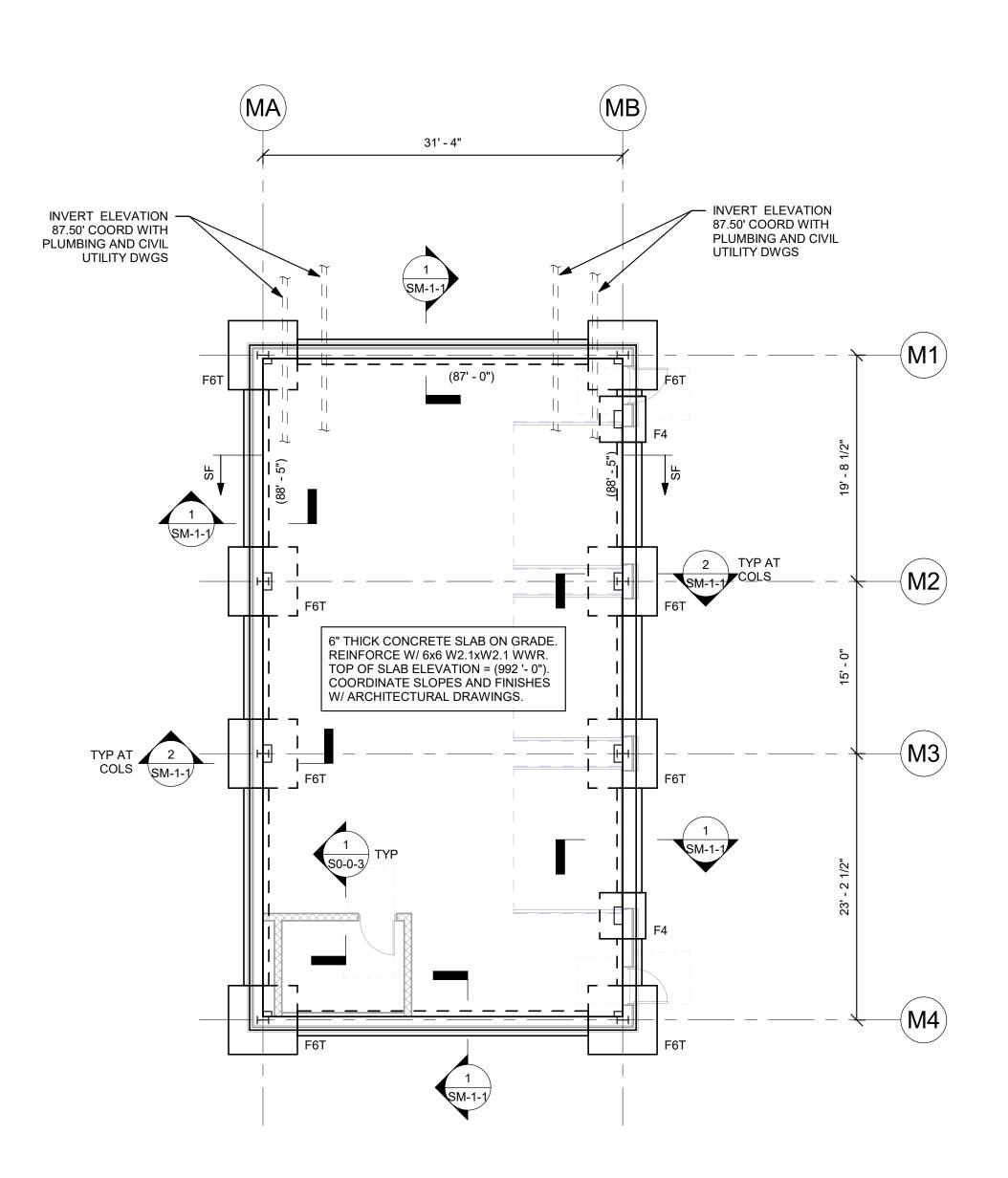
LOCKER ROOM BUILDING SHEAR WALLS

Scale: 1/8" = 1'-0"

Job No.: 20202

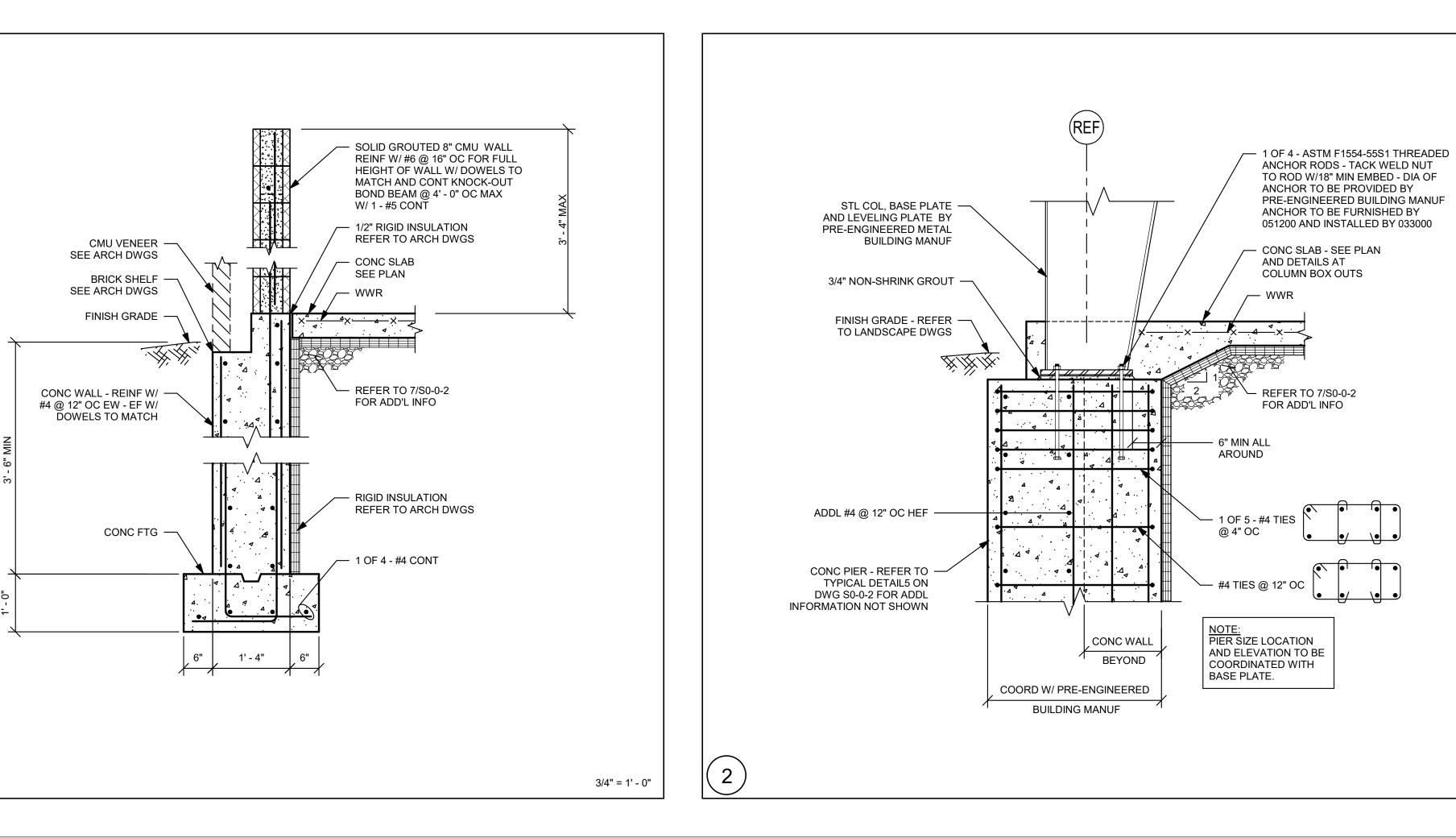
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SL-3-1



MAINTENANCE BUILDING GROUND FLOOR PLAN

3/4" = 1' - 0"



FOUNDATION NOTES:

- 1.) REFER TO GRADING DRAWINGS FOR PLAN AND GRADE ELEVATIONS
 THE STRUCTURAL DRAWINGS USES A DATUM OF 100'- 0" AT THE MAIN
 FLOOR, WHICH CORRESPONDS TO 163.50' MEAN SEA LEVEL, AS SHOWN
 ON THE SITE AND CIVIL DRAWINGS.
- 2.) FOR GENERAL NOTES AND TYPICAL DETAILS SEE DRAWINGS S0-0-1, S0-0-2, S0-0-3, S0-0-4, S0-0-5, S0-0-6, S0-0-7 AND S0-0-8.
- 3.) F3 ETC... INDICATES A FOOTING TYPE, FOR SIZE OF FOOTING AND REINFORCEMENT SEE SCHEDULE ON THIS DRAWING.
- 4.) TOP OF FOOTING ELEVATION TO BE 3' 6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE AT EXTERIOR CONDITIONS AND 2' 0" BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS. ALL OTHER TOP OF FOOTING ELEVATIONS ARE DENOTED AS THUS (XX' XX") ON PLANS. CONTRACTOR TO COORDINATE AND VERIFY ALL TOP OF FOOTING ELEVATIONS WITH UNDERGROUND PLUMBING SUB-CONTRACTOR'S FIELD LAYOUT.
- 5.) ALL FOOTING ELEVATIONS NOTED ON PLAN ARE SHOWN ONLY TO ASSIST IN COORDINATION. ALL FOOTING ELEVATIONS MUST BE COORDINATED WITH STRUCTURAL REQUIREMENTS, TYPICAL DETAILS,
- ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

 6.) ALL FOOTINGS TO BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.
- 7.) SF INDICATES A STEPPED FOOTING REFER TO DETAIL1 ON DRAWING S0-0-2.
- 9.) BOTTOM OF BASE PLATE ELEVATION TO BE 1' 5" MINIMUM BELOW TOP OF CONCRETE SLAB AT INTERIOR CONDITIONS, AND 0' 11" BELOW TOP OF CONCRETE SLAB AT EXTERIOR CONDITIONS. UNLESS NOTED OTHERWISE AS [XX' XX"] REFER TO ARCHITECTURAL DRAWINGS FOR BRICK SHELF ELEVATIONS.
- 10.) FOR UNDER SLAB DRAINAGE AND WALL DRAINS, COORDINATE WITH ARCHITECTURAL, STRUCTURAL, CIVIL, AND PLUMBING DRAWINGS.
- 11.) INDICATES A DEPRESSED SLAB ON GRADE. REFER TO DETAILS 6 AND 7 ON DRAWING S0-0-2 COORDINATE ALL SLAB DEPRESSIONS WITH REQUIREMENTS ON ARCHITECTURAL DRAWINGS.
- 12.) FOR TYPICAL EXTERIOR DOOR DETAIL REFER TO DETAIL 6 ON DRAWING S0-0-3 AND RELEVANT SECTIONS.
- 13.) INDICATES A CMU WALL. REFER TO TYPICAL DETAIL
 OR 3 ON DRAWING S0-0-4 FOR REINFORCEMENT AND DETAIL
- 4 ON DRAWING SO-0-6 FOR CONNECTIONS TO STEEL BEAMS
 AND CONCRETE SLABS AT THE TOP OF WALL FOR NON-STRUCTURAL
 WALLS. REFER TO RELEVANT SECTIONS FOR CONNECTIONS OF
- └── SHEAR WALLS TO THE STRUCTURE.14.) FOR DIMENSIONS AND ELEVATIONS NOT GIVEN REFER
- L J 5 ON DRAWING S0-0-2.
- 16.) ← □ □ INDICATES UNDERGROUND UTILITY LINES PLUMBING THROUGH CONCRETE FOUNDATION WALL TYPICAL. COORDINATE FOOTING ELEVATION WITH PIPE INVERTS AND TYPICAL

FOOTING SCHEDULE				
DESIGN SOIL BEARING CAPACITY = 2 TSF				
MARK	SIZE	REINFORCEMENT		
F4	4' - 0" x 4' - 0" x 1' - 6"	6 - #5 BOT EA WAY		
F6T	6' - 0" x 6' - 0" x 2' - 0"	7 - #6 BOT EA WAY		
T INDICATES TOP REINFORCING TO MATCH BOTTOM REINFORCING				



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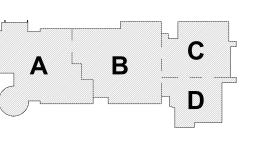
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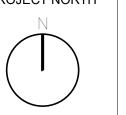
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KEY PLAN

PROJECT NORTH



MAINTENANCE BUILDING PLANS

Scale: As indicate
Job No.: 20202

Drawn By: ED0

SM-1-1