

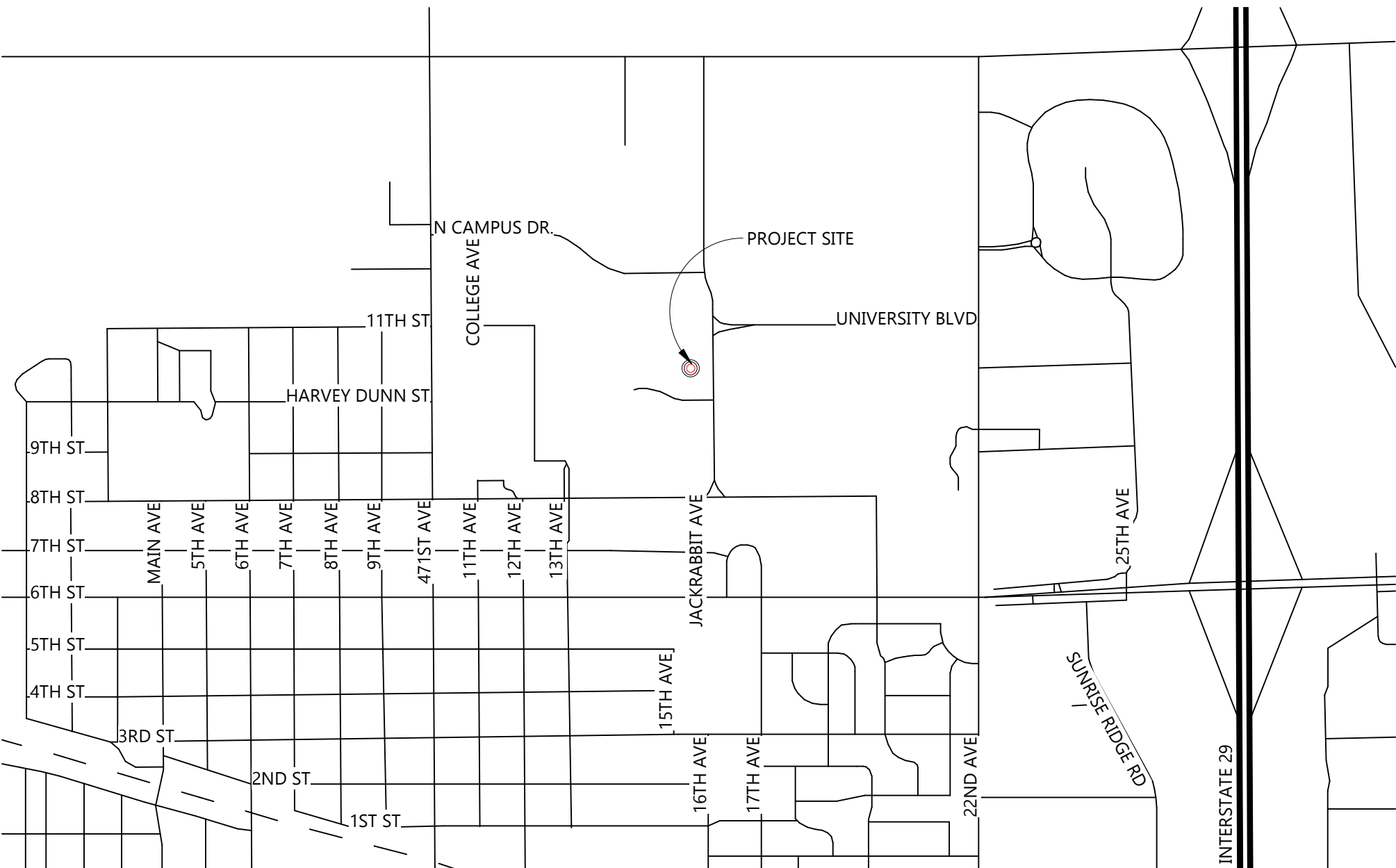
FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

OSE# R0319-23X/FBT SDSU - WO#22-103751

1165 JACKRABBIT AVE.
BROOKINGS, SOUTH DAKOTA

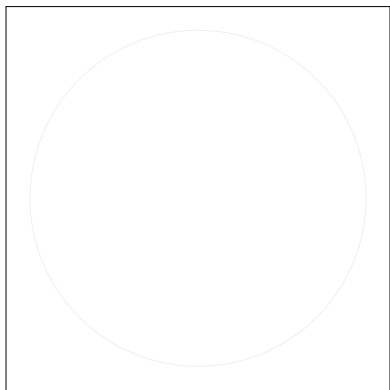


CITY OF BROOKINGS, SD MAP

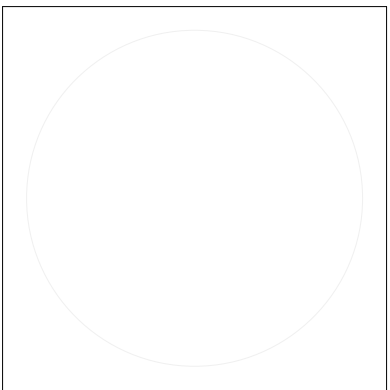


STAMPS

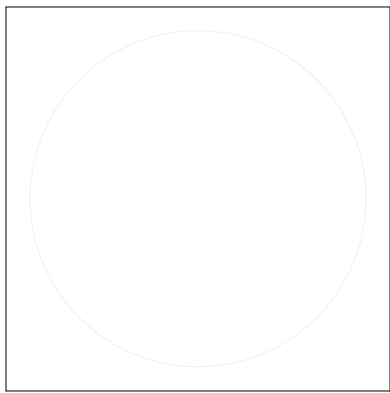
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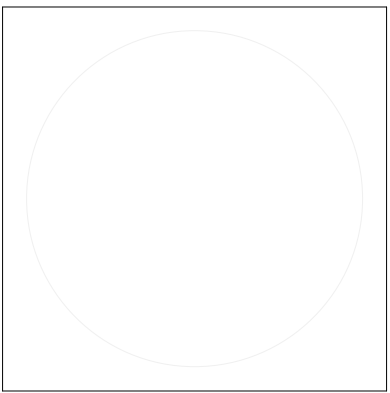
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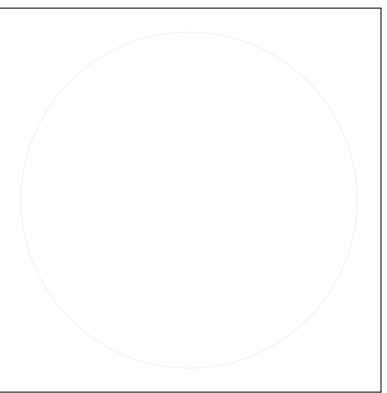
STRUCTURAL ENGINEER



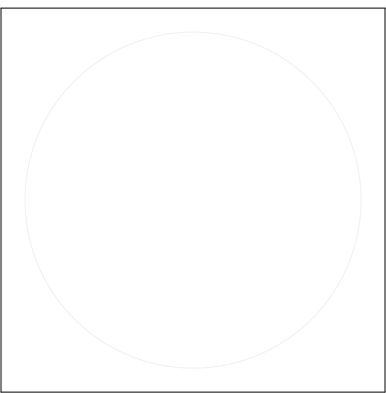
CIVIL ENGINEER



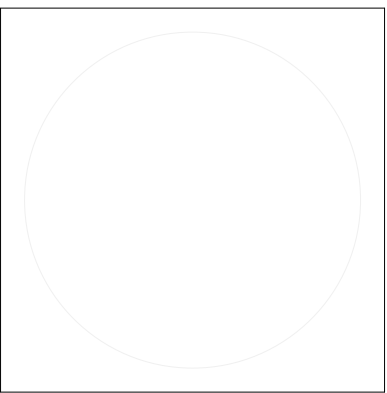
PLUMBING ENGINEER



MECHANICAL ENGINEER



ELECTRICAL ENGINEER



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PROJECT DESCRIPTION
FB&T ARENA AND SJM
ADDITIONS AND
RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

ISSUE DATES

BP01	BID PACKAGE 01	03/01/2022
MARK	DESCRIPTION	DATE

PROJECT NO: 20191170
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PRECAST & CAST-IN PLACE DIAGRAM



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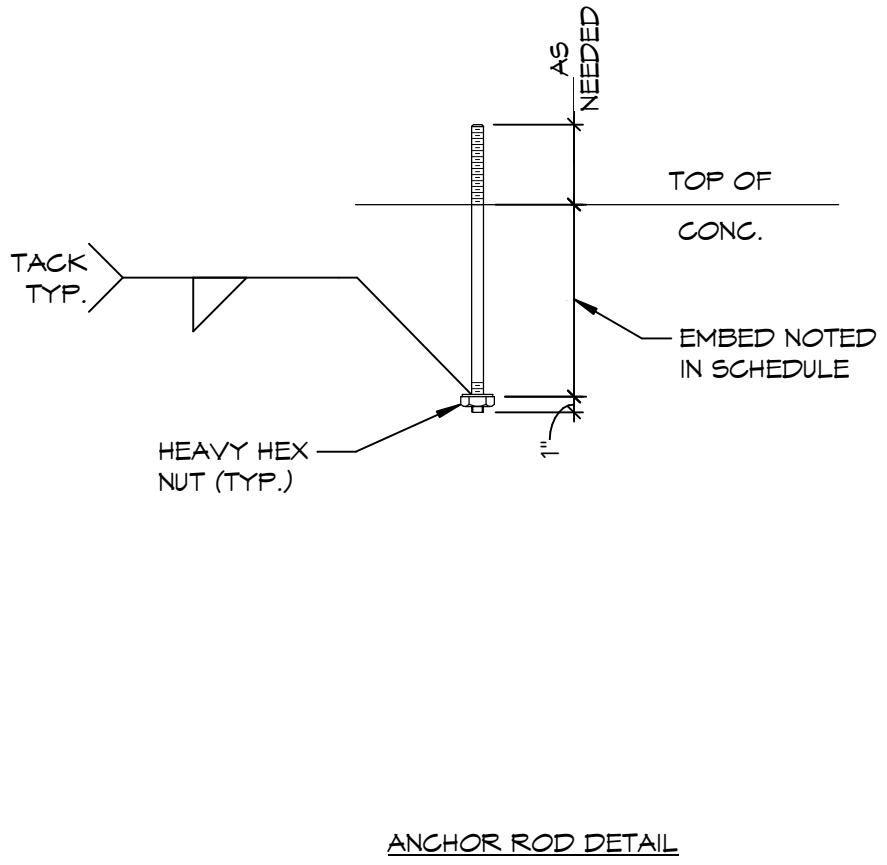
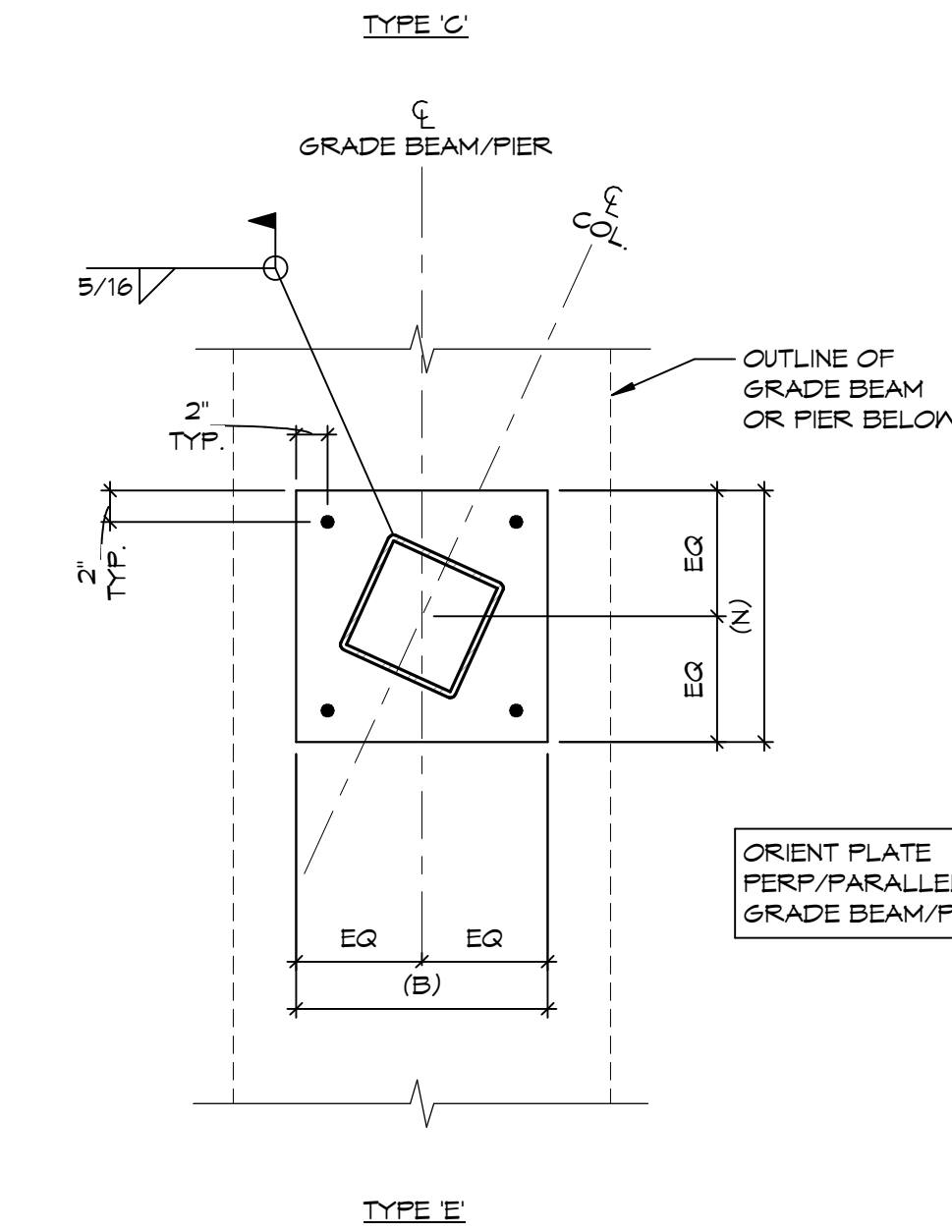
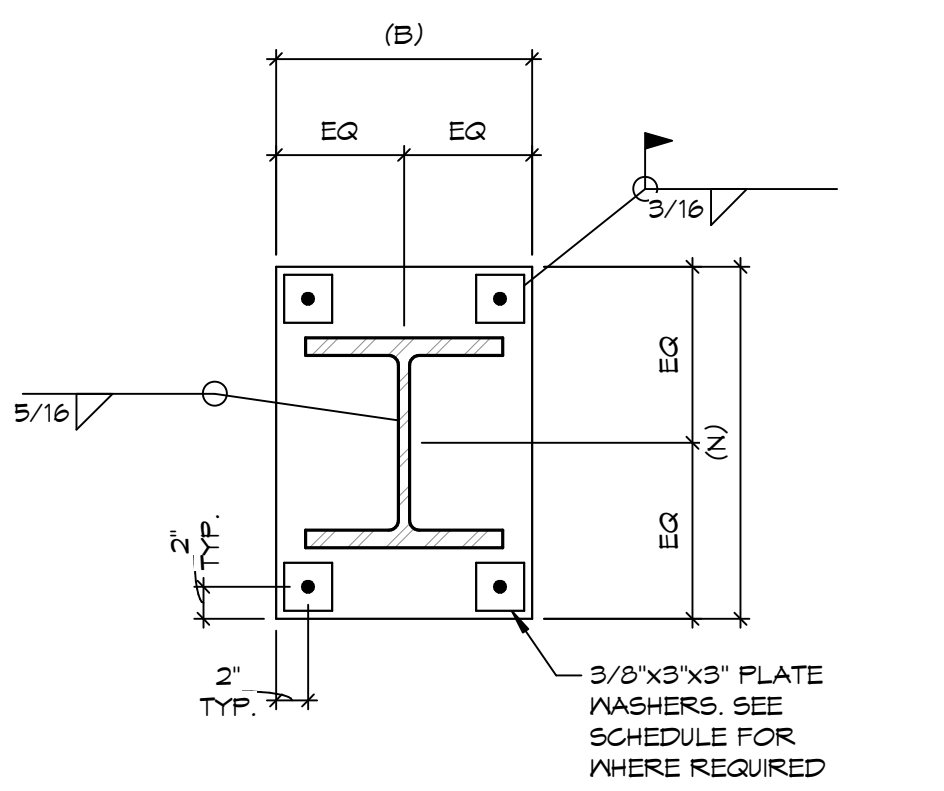
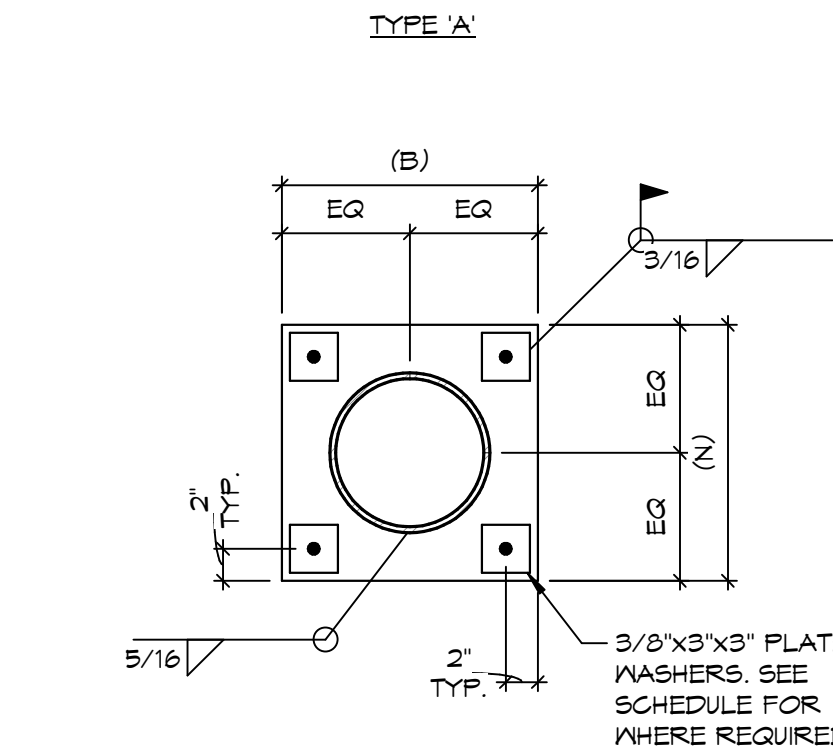
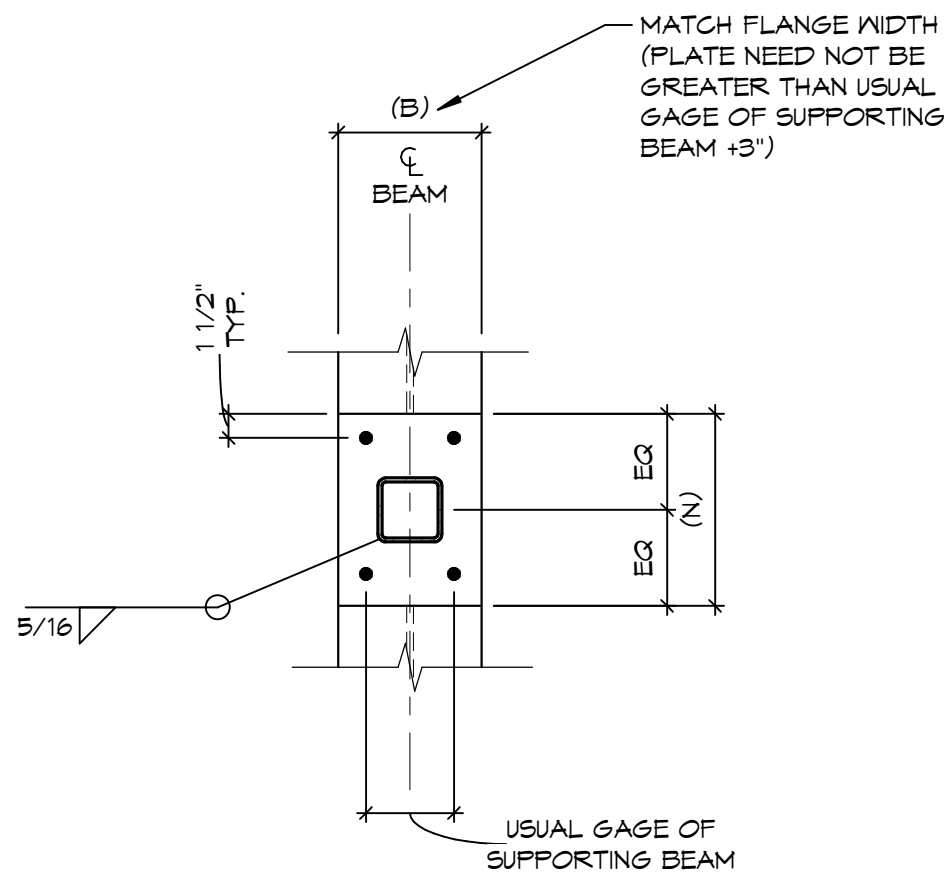
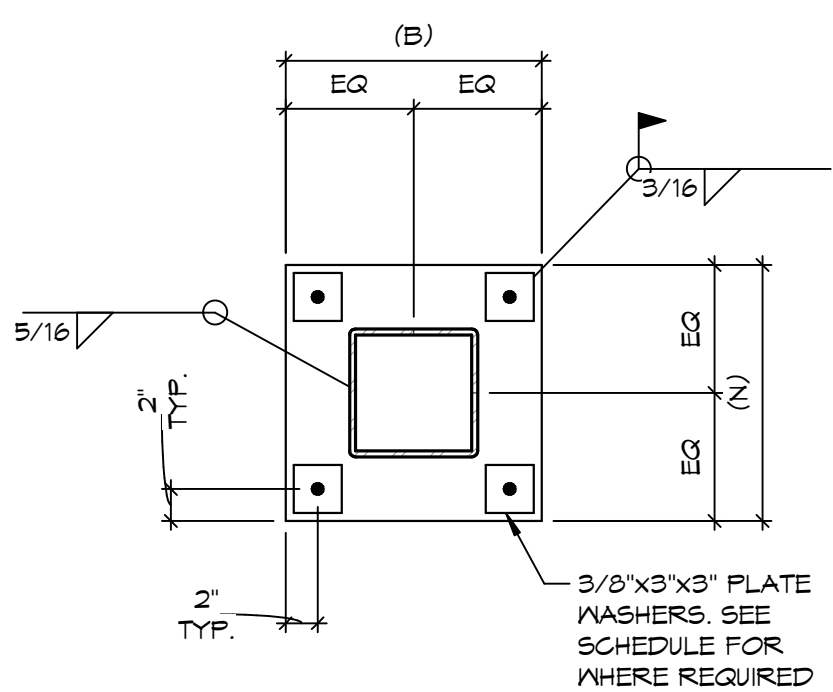
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G002

GENERAL CONSTRUCTION NOTES:		FOUNDATION NOTES:		CONCRETE NOTES:		STRUCTURAL STEEL NOTES:		MASONRY NOTES:	
1. THESE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. SOME DIMENSIONS, SECTIONS, AND FRAMING DETAILS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS.		1. FOOTING & PILE CAP ELEVATION ARE TO TOP OF FOOTING OR TOP OF PILE CAP. U.O.N.		1. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.		1. STRUCTURAL STEEL WORK SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION, 14TH EDITION, MATERIAL: ASTM A992 PL 5, AND V-SHAPES F _y = 50 ksi ASTM A53 GRADE B - STANDARD PIPES F _y = 35 ksi ASTM A500 GRADE C - HSS PIPES F _y = 46 ksi ASTM A500 GRADE C - HSS TUBES F _y = 50 ksi ASTM A536 PLATES, BARS, WGS SHAPES (ANGLES), CHANNELS, & RODS F _y = 36 ksi (U.O.N.) ASTM F1554 GRADE 36 - ANCHOR RODS F _y = 36 ksi ASTM A325 - ANCHOR BOLTS F _y = 55 ksi (SUPPLEMENT 51) ASTM F436 CONNECTION NUTS F _y = 105 ksi ASTM A108 HEADED STUD ANCHORS F _y = 65 ksi E70XX ELECTRODES F _y = 70 ksi		1. MASONRY Fm = 2000 PSI	
2. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS THAT ARE UNKNOWN OR THAT DIFFER THAN AS DEPICTED IN THESE DRAWINGS. SUCH EXISTING CONDITIONS MAY INTERFERE WITH THE NEW CONSTRUCTION OR REQUIRED PROTECTION DURING CONSTRUCTION.		2. SPREAD FOOTINGS ARE DESIGNED FOR A MAXIMUM NET ALLOWABLE SOIL BEARING PRESSURE = 4000 psf (PER GEOTECHNICAL REPORT PREPARED BY GEOTEK ENGINEERING TESTING SERVICES, INC. DATED 4/20/2014) (GEOTEK #14-C45)		2. CAST-IN-PLACE CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH IS AS FOLLOWS: 4000 psi - FOOTINGS 4000 psi - PILE CAPS 4000 psi - EXTERIOR FOUNDATION WALLS 4000 psi - INTERIOR FOUNDATION WALLS 4000 psi - PIERS 4000 psi - GRADE BEAMS 4000 psi - INTERIOR SLABS ON GRADE 4500 psi - EXTERIOR SLABS ON GRADE - AIR ENTRAINED 4000 psi - RAISED SLABS 4500 psi - EXTERIOR SLABS - AIR ENTRAINED		2. WELDED CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF: AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION AWS - AMERICAN WELDING SOCIETY		2. CONCRETE BLOCK MASONRY UNITS SHALL CONFORM TO GRADE N, MOISTURE CONTROLLED TYPE I REQUIREMENTS OF ASTM C90, WITH AN ASSUMED COMPRESSIVE STRENGTH = 2800 PSI. MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE M OR TYPE S, WITH TYPE M BELOW GRADE.	
3. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ALL ENCOUNTERED EXISTING CONDITIONS THAT INTERFERE WITH THE PROPER EXECUTION OF NEW WORK OR COMPROMISE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.		3. HELICAL PILE DESIGN CRITERIA: MIN. ULTIMATE COMPRESSIVE RESISTANCE..... 100k MIN. ALLOWABLE COMPRESSIVE RESISTANCE..... 50k MIN. ULTIMATE TENSION RESISTANCE..... 50k MIN. ALLOWABLE TENSION RESISTANCE..... 25k MAX. TOTAL SETTLEMENT..... 1/2" *TENSION RESISTANCE ONLY REQUIRED AT PILE CAPS DENOTED AS PCX-T.		3. CONCRETE MIX DESIGNS SHALL BE BY AN INDEPENDENT TESTING LABORATORY, AND SUBMITTED FOR REVIEW AND APPROVAL.		3. COLUMN BASE AND CAP PLATES TO BE WELDED AROUND ALL SIDES.		3. BOND BEAMS SHALL HAVE 2 - #5 REINFORCING BARS CONTINUOUS. PROVIDE AT TOP OF WALLS AND WHERE SHOWN ON PLAN OR DETAILS. SEE STANDARD DETAILS FOR TYPICAL ANCHOR BARS. EXTEND VERTICAL REINFORCEMENT THROUGH BOND BEAM WHERE APPLICABLE.	
4. ALL WORK SHALL COMPLY WITH THE 2019 INTERNATIONAL BUILDING CODE, AS APPROVED BY THE STATE OF SOUTH DAKOTA / CITY OF BROOKINGS.		4. ALL HELICAL PILES TO BE COMPRISED OF CIRCULAR PIPE SECTIONS.		4. CAST-IN-PLACE CONCRETE SHALL BE SUBJECT TO TESTING BY AN INDEPENDENT TESTING LABORATORY. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS.		4. BOTTOM PLATE OF STEEL LINTELS SHALL BE WELDED TO THE BEAM WITH 3/16" FILLET WELD (BOTH SIDES) 3' LONG @ 1'-0" OC (UON)		4. ALL MASONRY LINTEL BEAMS AND BOND BEAMS WHERE NOTED SHALL BE A 'U' BLOCK TYPE UNIT.	
5. REFERENCE STANDARDS, UNLESS OTHERWISE NOTED, ALL STANDARDS SHALL BE CURRENT EDITION, WITH LATEST APPENDIX, IF APPLICABLE.		5. ALL HELICAL PILE CAP/BRS. PLATES TO BE A MIN. OF 7X7' 4" V 2 BOLTS.		5. CONCRETE MIX DESIGNS SHALL BE BY AN INDEPENDENT TESTING LABORATORY, AND SUBMITTED FOR REVIEW AND APPROVAL.		5. BEFORE ENCASING STEEL COLUMNS IN CONCRETE OR MASONRY, COAT COLUMN BASES AND TOPS OF ANCHOR BOLTS WITH ASPHALTIC ROOF CEMENT.		5. CONCRETE GROUT FOR UNIT MASONRY CORES AND BOND BEAMS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.	
6. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.		6. FINAL HELICAL PILE DESIGN TO BE BY HELICAL PILE SUPPLIER. SUPPLIER SHALL SUBMIT DRAWINGS SHOWING FILE LAYOUT/SPACING, FILE DIAMETER, HELIX & 4 SPACING, APPROX. PILE DEPTH AND SHALL SUBMIT CALCULATIONS SIGNED BY AN ENGINEER LICENSED IN SOUTH DAKOTA.		6. CAST-IN-PLACE CONCRETE SHALL BE SUBJECT TO TESTING BY AN INDEPENDENT TESTING LABORATORY. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS.		6. BEAMS AND COLUMNS SHALL BE ERECTED TRUE AND PLUMB WITHIN AISC TOLERANCE, PROVIDE TEMPORARY BRACING AS REQUIRED.		6. MASONRY WALLS ARE TO BE SUPPORTED Laterally UNTIL THE ENTIRE ROOF AND/OR FLOOR IS IN PLACE AS DETAILED.	
7. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.		7. CONTRACTOR SHALL COMPLETE A PRE-PRODUCTION LOAD TEST ON 1 HELICAL PILE TO VERIFY ABOVE NOTED COMPRESSION, TENSION, AND SETTLEMENT REQUIREMENTS.		7. CONCRETE MIX DESIGNS SHALL BE BY AN INDEPENDENT TESTING LABORATORY, AND SUBMITTED FOR REVIEW AND APPROVAL.		7. BRIDGING SHALL BE SUPPLIED AND DESIGNED BY THE STEEL JOIST SUPPLIER, AS PER SJI STANDARDS, FOR THE PROJECT DESIGN LOADS. STEEL JOIST SUPPLIER TO PROVIDE CONNECTIONS TO ANCHOR BRIDGING TO MASONRY AND/OR CONCRETE WALLS. SEE STANDARD DETAILS.		7. WIRE REINFORCING FOR CMU WALLS SHALL BE CORROSION RESISTANT #6A HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A951. REINFORCING SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS WITH MAXIMUM SPACING OF 1'-4" OC (UON)	
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE MEANS, METHODS, TIMING, OR PROCEDURES USED TO COMPLETE THE CONSTRUCTION, TEMPORARY BRACING, SHORING, OR PROTECTION OF THE STRUCTURE AGAINST WIND, ERECTION AND OTHER SITE CONDITIONS DURING CONSTRUCTION OF THE BUILDING SHALL BE THE RESPONSIBILITY OF CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF THE STRUCTURE DURING ALL PHASES OF DEMOLITION, CONSTRUCTION, AND INSTALLATION.		8. FOOTINGS SHALL BEAR ON ENGINEERED FILL. SOILS SHALL BE OBSERVED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOOTING CONCRETE.		8. PROVIDE EXTRA REINFORCEMENT AROUND ALL OPENINGS GREATER THAN 1'-0" SQUARE OR 1'-0" IN DIAMETER, INCLUDING DOOR OPENINGS IN CONCRETE WALLS AND SLABS. PROVIDE TWO 2 - #5 BARS @ 3' OC, ON EACH SIDE OF THE OPENING EXTENDING 2'-0" BEYOND THE CORNER OF THE OPENING AND 2 - #5 BARS AT 3' OC BY 3'-0" LONG DIAGONAL BARS AT EACH CORNER. PLACE DIAGONAL BARS CENTERED ON CORNER @ 2' CLEAR OF CORNER. ADDITIONAL REINFORCING SHALL BE PROVIDED AT EACH LAYER OF REINFORCING.		8. BEAMS AND COLUMNS SHALL BE ERECTED TRUE AND PLUMB WITHIN AISC TOLERANCE, PROVIDE TEMPORARY BRACING AS REQUIRED.		8. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT 102 (REIN) DIAMETER INTERVALS MAXIMUM. LENGTH OF REINFORCING BARS TO BE COORDINATED WITH GENERAL CONTRACTOR AND MASONRY CONTRACTOR.	
9. NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.		9. PROTECT FOOTINGS FROM ACTION OF WATER OR FREEZING.		9. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		9. BEARING PLATES FOR STEEL COLUMNS SHALL BE DRY PACKED WITH A NON-SHRINK, NON-METALLIC GROUT AS SPECIFIED.		9. WHERE CELLS ARE TO BE FILLED WITH CONCRETE GROUT, PROVIDE ADDITIONAL FULL MORTAR BED AT CROSS WEBS ENCLOSING GROUTED CELL.	
10. SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR ALL OPENINGS AND INSERTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.		10. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		10. PROVIDE LAP SPlice FOR REINFORCING STEEL AS INDICATED IN THE FOLLOWING SCHEDULE.		10. BRIDGING SHALL BE SUPPLIED AND DESIGNED BY THE STEEL JOIST SUPPLIER, AS PER SJI STANDARDS, FOR THE PROJECT DESIGN LOADS. STEEL JOIST SUPPLIER TO PROVIDE CONNECTIONS TO ANCHOR BRIDGING TO MASONRY AND/OR CONCRETE WALLS. SEE STANDARD DETAILS.		10. CONSOLIDATE ALL CONCRETE GROUT BY PUDDLING OR VIBRATING.	
11. VERIFY LOCATION OF BOX CUTS AND OPENINGS WITH MECHANICAL AND ELECTRICAL CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR PIPES, DUCTS ETC ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED WITH THE MECHANICAL CONTRACTOR BEFORE COMMENCING THE WORK.		11. PRIOR TO PLACEMENT OF FOOTING CONCRETE, CLEAN FOOTING EXCAVATION OF SNOW, WATER, MUD, DIRT, AND DEBRIS.		11. PROVIDE LAP SPlice FOR REINFORCING STEEL AS INDICATED IN THE FOLLOWING SCHEDULE.		11. FIRST COURSE OF ALL HOLLOW MASONRY SHALL BE PLACED ON A FULL BED OF MORTAR.		11. CAST DONNELLS, WITH STANDARD HOOKS, IN FOOTINGS FOR PIERS AND WALLS ABOVE. DONNELLS SHALL BE THE SAME SIZE AND SPACING OF VERTICAL REINFORCING UON.	
12. VERIFY SIZE, NUMBER, AND LOCATION OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. IF EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT CONCORD WITH EQUIPMENT SHOWN ON PLANS, COORDINATE ADJUSTMENTS WITH THE STRUCTURAL ENGINEER.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. TRACKS SHALL BE INSTALLED AT THE TOPS AND BOTTOMS OF ALL VERTICAL STUDS AND SHALL BE THE SAME GAUGE AS THE WALL STUDS. TRACKS SHALL BE CONNECTED TO THE STUDS WITH #10 SCREWS (MINIMUM), ONE AT EACH FLANGE.		12. ALL MASONRY SHALL BE RUNNING BOND, UNLESS OTHERWISE NOTED.	
13. HOLES, PIPES, SLEEVES, ETC NOT SHOWN ON THE DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
14. ELECTRICAL CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE SLAB UNLESS OTHERWISE APPROVED BY ENGINEER OF RECORD.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
15. CONTRACTOR SHALL PROVIDE A CAST-IN SLEEVE FOR ALL HORIZONTAL ELEMENTS THAT EXTEND THROUGH FOOTING. IE DRAIN TILE, ELECTRICAL CONDUIT, MECHANICAL PIPING, ETC. ALL SLEEVES SHALL BE COORDINATED WITH ARCHITECT/ENGINEER.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
16. SHOP DRAWINGS PREPARED BY SUPPLIERS, SUB CONTRACTORS, ETC, SHALL BE DIMENSIONED, REVISED, COORDINATED AND SIGNED AND APPROVED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE STRUCTURAL ENGINEER. MANUFACTURED COMPONENTS SUCH AS TRUSSES OR PRECAST CONCRETE SHALL BE ENGINEERED AND STAMPED PRIOR TO SUBMISSION		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
17. FABRICATOR SHALL CLEARLY NOTE CHANGES MADE IN THE SHOP DRAWINGS WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS. REVIEWED APPROVAL SHOP DRAWINGS SHOWING ENGINEERS COMMENTS ACCOMPANIED WITH RECORD SET SHOP DRAWINGS, SHALL BE AVAILABLE FOR REFERENCE AT THE CONSTRUCTION SITE.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
18. EXPANSION ANCHORS SHALL BE HILTI 'Kwik Bolt Tt' OR EQUIVALENT (UON). INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
19. ADHESIVE ANCHORS (AA) SHALL BE HILTI 'HIT HY-200 USING 'HAS' STANDARD RODS' OR EQUIVALENT (UON). USE HILTI HIT-ICE FOR COLD WEATHER APPLICATIONS, SEE SPECIFICATIONS FOR USAGE. INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
20. CONCRETE GOREN ANCHORS (G&A) SHALL BE SIMPSON STRONG-TIE TITEN HD OR EQUIVALENT (UON). INSTALL ANCHORS IN STRUCTURAL CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
21. DESIGN CRITERIA:		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
FLOOR LIVE LOADS:		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
2ND FLOOR/MEZZANINE.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
MECH. PENTHOUSE.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
STADIUM SEATING (FIXED).....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
STADIUM SEATING (BLEACHER).....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
STAIRS.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
ROOF LIVE LOADS:		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
TYP. FLAT ROOF SNOW.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
TYPICAL ROOF.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
MECH. PENTHOUSE ROOF.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
LATERAL LOADS (WIND/MEMBERS):		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
ULTIMATE DESIGN WIND SPEED (9 SEC. GUST).....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
NOMINAL DESIGN WIND SPEED.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
WIND EXPOSURE.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
INTERNAL PRESSURE COEFFICIENT.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
RISK CATEGORY.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
COMPONENTS AND CLADDING.....		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.	
LATERAL LOADS (SEISMIC-MEMBERS):		12. FOOTINGS ARE CENTERED UNDER WALLS ABOVE UNLESS OTHERWISE NOTED.		12. REINFORCING STEEL SHALL BE BENT, SPLICED, AND PLACED IN ACCORDANCE WITH ACI 301 (LATEST EDITION).		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUTED SOLID.		12. GROUT CORES SOLID IN 45° LIFTS AT CORES 4" REINFORCING AND WHERE CORES ARE NOTED TO BE GROUT	



BASE PLATE LAYOUT DETAIL
5002 1" = 1'-0"

GRADE BEAM SCHEDULE						
MARK	SIZE (WxD)	BOT BARS	TOP BARS	STIRRUPS	DETAIL	REMARKS
GB1	3' - 4' x 4' - 10"	(4) - #7	(4) - #7	#4 @ 1' - 0" O.C.	3/5302	
GB2	2' - 4' x 4' - 10"	(4) - #7	(4) - #7	#4 @ 1' - 0" O.C.	2/5302	
GB3	2' - 4' x 4' - 10"	(4) - #7	(4) - #7	#4 @ 1' - 0" O.C.	5/5302	
GB4	2' - 4' x 4' - 10"	(4) - #7	(4) - #7	#4 @ 10" O.C.	5/5302	
GB5	2' - 0' x 4' - 10"	(5) - #8	(4) - #7	#4 @ 10" O.C.	5/5302	
GB6	2' - 0' x 4' - 10"	(4) - #7	(4) - #7	#4 @ 1' - 0" O.C.	5/5302	
GB7	2' - 4' x 3' - 10"	(4) - #7	(6) - #8	#4 @ 5" O.C.	5/5302	
GB8	2' - 4' x 4' - 10"	(4) - #7	(5) - #8	#4 @ 1' - 0" O.C.	5/5302	
GB9	2' - 4' x 3' - 10"	(4) - #7	(4) - #7	#4 @ 1' - 0" O.C.	5/5302	
GB10	2' - 4' x 3' - 10"	(4) - #7	(3) - #8	#4 @ 10" O.C.	5/5302	

- NOTES:
- U.O.N. PROVIDE 90° STD HOOKS @ EA. END OF TOP, BOTTOM & SIDE REINFORCING.

MASONRY WALL SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
MW1	--	--	--

- NOTES:
- DYNS TO FOUNDATION WALL SHALL ALWAYS BE A SINGLE DYNS CENTERED IN CMU WALL REGARDLESS IF CMU WALL HAS A SINGLE VERT. BAR CENTERED OR 2 BARS (1 EA. FACE).
 - SEE SHEET 5001 FOR LAP LENGTHS @ VERTICAL REINFORCING.
 - IN ADDITION TO THE REINFORCING NOTED ABOVE AND ON PLANS, PROVIDE VERTICAL REINFORCING AT CORNERS, ENDS OF WALLS, OPENING JAMBS AND AT EA. SIDE OF VERTICAL CONTROL JOINTS.

LINTEL SCHEDULE			
MARK	SIZE	BEARING PL. @ EA. END	REMARKS
L1	--	--	--

PIER SCHEDULE							
MARK	(B) WIDTH	(N) LENGTH	VERT REINF./DYNS	TIES	TOP OF PIER	DETAIL	REMARKS
P1	2' - 4"	2' - 4"	(3) - #8	#3 @ 1' - 0" O.C.	94" - 4"	16/5301	
P2	2' - 0"	2' - 0"	(3) - #8	#3 @ 1' - 0" O.C.	98" - 10"	16/5301	
P3	2' - 0"	2' - 0"	(3) - #8	#3 @ 1' - 0" O.C.	100" - 0"	16/5301	
P4	2' - 4"	2' - 4"	(3) - #8	#3 @ 1' - 0" O.C.	98" - 2"	16/5301	
P5	2' - 4"	2' - 4"	(3) - #8	#3 @ 1' - 0" O.C.	98" - 2"	17/5301	
P6	2' - 4"	2' - 4"	(3) - #8	#3 @ 1' - 0" O.C.	94" - 4"	17/5301	
P7	1' - 6"	1' - 6"	(4) - #6	#3 @ 1' - 0" O.C.	98" - 2"	16/5301	
P8	2' - 4"	2' - 4"	(3) - #8	#3 @ 1' - 0" O.C.	94" - 4"	14/5301	
P9	2' - 8"	2' - 8"	(3) - #8	#3 @ 1' - 0" O.C.	94" - 4"	20/5301	
P10	2' - 0"	2' - 0"	(3) - #8	#3 @ 1' - 0" O.C.	98" - 2"	21/5301	
P11	1' - 8"	1' - 8"	(4) - #7	#3 @ 1' - 0" O.C.	94" - 4"	22/5301	
P12	2' - 8"	2' - 8"	(3) - #8	#3 @ 1' - 0" O.C.	94" - 4"	16/5301	
P13	2' - 4"	2' - 4"	(3) - #8	#3 @ 1' - 0" O.C.	98" - 2"	23/5301	

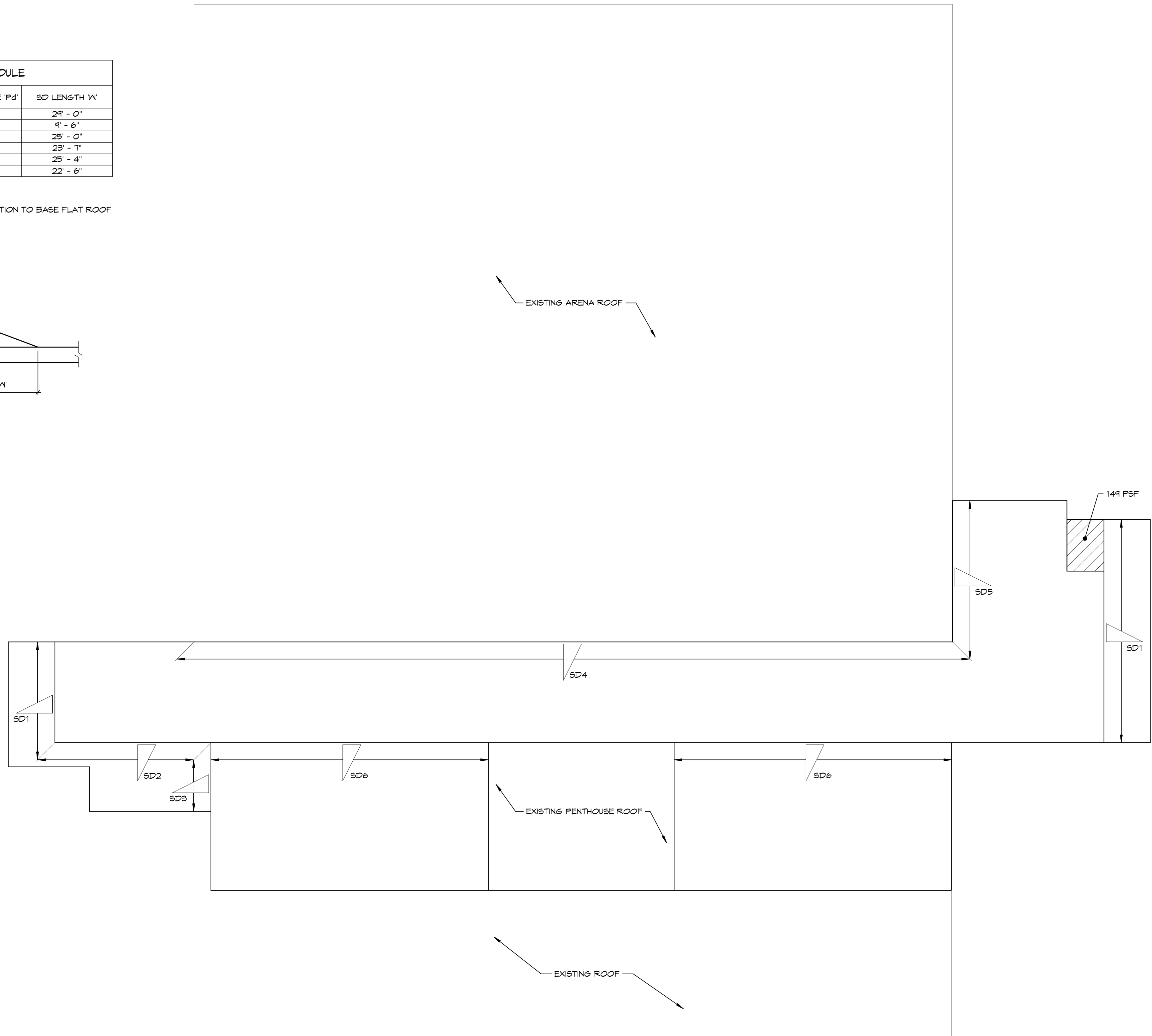
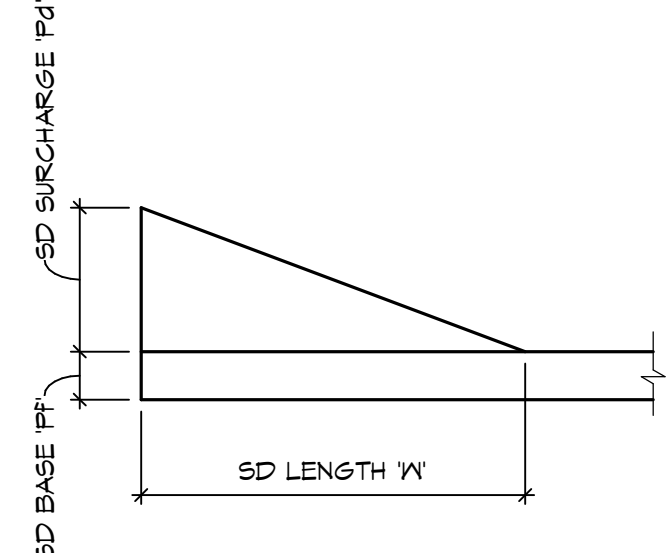
- NOTES:
- U.O.N. PROVIDE (3) TIES @ 3' O.C. @ TOP OF ALL PIERS.

COLUMN, BASEPLATE & ANCHOR ROD SCHEDULE									
MARK	SIZE	BASEPLATE			ANCHOR RODS				REMARKS
		TYPE	(B)	(N)	THICKNESS	NUMBER	DIA.	EMBED.	
C1	H55 5x5x1/4	--	--	--	--	--	--	--	S.D. 10/5401 & 1/5402 FOR COLUMN BASE CONNECTION
C2	H55 5x5x3/8	--	--	--	--	--	--	--	S.D. 10/5401 & 1/5402 FOR COLUMN BASE CONNECTION
C3	H55 4x4x1/4	A	1' - 0"	1' - 0"	1"	(4)	1"	1' - 0"	55 KSI
C4	H55 6x6x3/8	B	1' - 0"	1' - 0"	1"	(4)	3/4"	--	A325
C5	H55 6x6x3/8	A	1' - 2"	1' - 2"	1"	(4)	1"	1' - 0"	55 KSI
C6	H55 10.000x10.315	C	1' - 3"	1' - 3"	1"	(4)	1"	1' - 0"	55 KSI
C7	H55 6x6x1/2	A	1' - 4"	1' - 4"	1 1/2"	(4)	1"	1' - 6"	55 KSI
C8	H55 6x6x1/2	A	1' - 5"	1' - 5"	1 1/2"	(4)	1"	1' - 6"	55 KSI
C9	H55 15x15x5/8	A	2' - 2"	2' - 2"	1 1/2"	(4)	1"	1' - 6"	55 KSI
C10	M10x48	D	1' - 0"	1' - 0"	1 1/2"	(4)	1"	1' - 6"	55 KSI
C11	M12x120	D	1' - 4"	1' - 10"	1 1/2"	(4)	1"	1' - 6"	55 KSI
C12	M14x193	D	1' - 6"	2' - 0"	1 1/2"	(4)	1"	1' - 6"	55 KSI
C13	H55 6x6x1/2	E	1' - 4"	1' - 4"	1 1/2"	(4)	1"	1' - 0"	55 KSI
C14	H55 7x7x1/4	A	1' - 3"	1' - 3"	1"	(4)	1"	1' - 0"	55 KSI
C15	H55 6x6x1/2	B	--	1' - 2"	1"	(4)	3/4"	--	A325

- NOTES:
- S.D. 1/5002 FOR BASE PLATE TYPES & ANCHOR ROD LAYOUTS.

SNOW DRIFT SCHEDULE			
SD MARK	SD BASE 'PSF	SD SURCHARGE 'PSF	SD LENGTH 'W'
SD1	30.5 PSF	149.0 PSF	24' - 0"
SD2	30.5 PSF	49.0 PSF	9' - 6"
SD3	30.5 PSF	129.0 PSF	25' - 0"
SD4	30.5 PSF	121.0 PSF	23' - 1"
SD5	30.5 PSF	130.0 PSF	25' - 4"
SD6	30.5 PSF	119.0 PSF	22' - 6"

- NOTES:
- U.O.N. SNOW LOADS SHOWN ARE IN ADDITION TO BASE FLAT ROOF SNOW LOADS NOTED ON 5001.



SNOW DRIFT DIAGRAM
5002 1" = 20'-0"

FILE CAP SCHEDULE					
MARK	OVERALL DEPTH	BOTTOM REINFORCING		FILE CAP DETAIL	REMARKS
		LONG BARS	SHORT BARS		
FC2	2' - 6"	(4) - #6	(4) - #6	11/5301	
FC3	2' - 6"	(4) - #6	3 WAYS	12/5301	
FC3-T	2' - 6"	(4) - #6	3 WAYS	12/5301	PROVIDE TOP REINF. TO MATCH BTM. PROVIDE TENSION DYNS
FC4	2' - 6"	(4) - #6	(4) - #6	13/5301	
FC5	2' - 10"	(4) - #7	(4) - #7	14/5301	
FC6	3' - 6"	(4) - #7	(13) - #7	15/5301	

- NOTES:
- WHEN PLACING REINFORCING THE 'LONG BARS' SHALL ALWAYS BE PLACED AS THE OUTSIDE LAYER.
 - UNLESS OTHERWISE NOTED PROVIDE #4 @ 1'-0" O.C. EACH WAY @ TOP OF FILE CAP.
 - SEE DETAIL 1/5302 & 8/5302 FOR TYPICAL FILE CAP DETAILS.
 - ALL BOTTOM BARS TO HAVE STD. 180° HOOKS @ EA. END.
 - ALL TOP BARS TO HAVE STD. 90° HOOKS @ EA. END.
 - ALL FILE CAPS DENOTED AS FCX-T PROVIDE TENSION DOWELS AS SHOWN IN DETAIL 2/5303.

FOOTING SCHEDULE					
MARK	SIZE	DEPTH	REINFORCING		REMARKS
			TRANS.	LONG.	
F4.0	4' - 0" x 4' - 0"	1' - 0"	(5) - #5	(4) - #5	
F4.3 x 4.0	4' - 4 1/2" x 4' - 0"	2' - 0"	(11) - #6	(7) - #6	
F4.5	4' - 6" x 4' - 6"	1' - 0"	(5) - #5	(5) - #5	REINF. TOP & BTM.
F4.83	4' - 10" x 4' - 10"	1' - 4"	(5) - #5	(5) - #5	REINF. TOP & BTM.
F6.0	6' - 0" x 6' - 0"	1' - 2"	(6) - #6	(6) - #6	REINF. TOP & BTM.
F6.5	6' - 6" x 6' - 6"	1' - 2"	(7) - #6	(7) - #6	REINF. TOP & BTM.
F16.2 x 13.6	16' - 2" x 13' - 1"	1' - 6"	(14) - #6	(14) - #6	REINF. TOP & BTM.
FC2.0	2' - 0" CONT.	1' - 0"	--	--	(2) - #5
FC2.0A	2' - 0" CONT.	2' - 0"	--	--	(2) - #5
FC2.3	2' - 4" CONT.	2' - 0"	--	--	S.D. 10/5302 FOR REINF.
FC3.5	3' - 6" CONT.	1' - 0"	--	--	(4) - #5
FC4.3	4' - 4" CONT.	1' - 0"	#4 @ 1'-0" O.C.	(5) - #5	REINF. TOP & BTM.

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PROJECT DESCRIPTION
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(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

ISSUE DATES

BP01	BID PACKAGE 01	03/01/2022
MARK	DESCRIPTION	DATE

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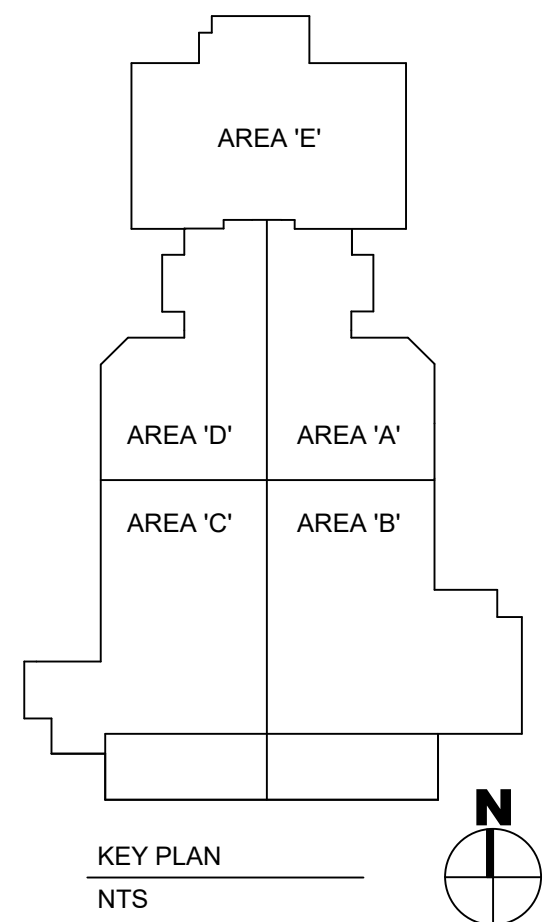


DRAWING TITLE
STRUCTURAL SCHEDULES

S002



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RENOVATIONS

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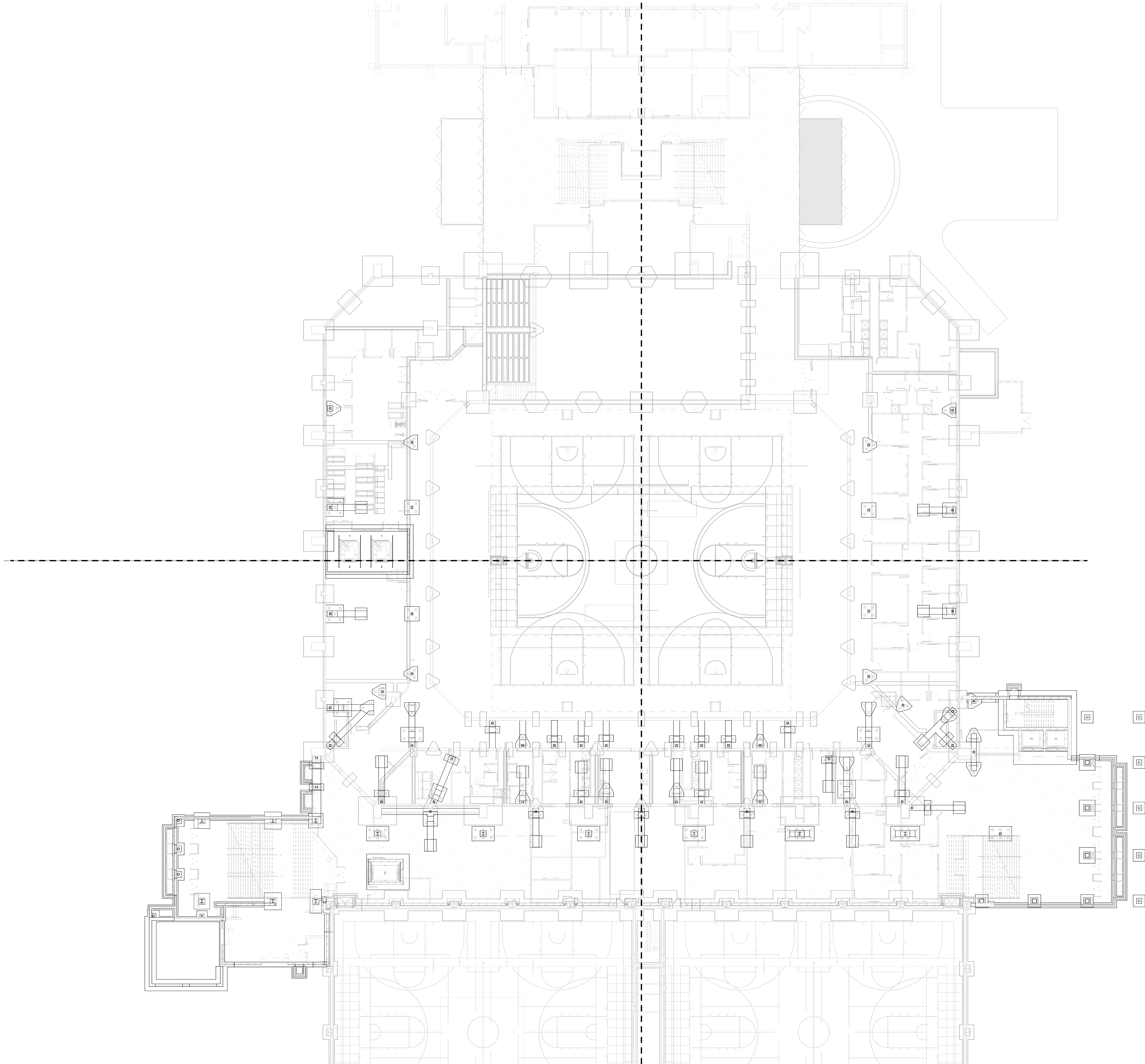
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FOOTING &
FOUNDATION PLAN -
OVERALL

S101



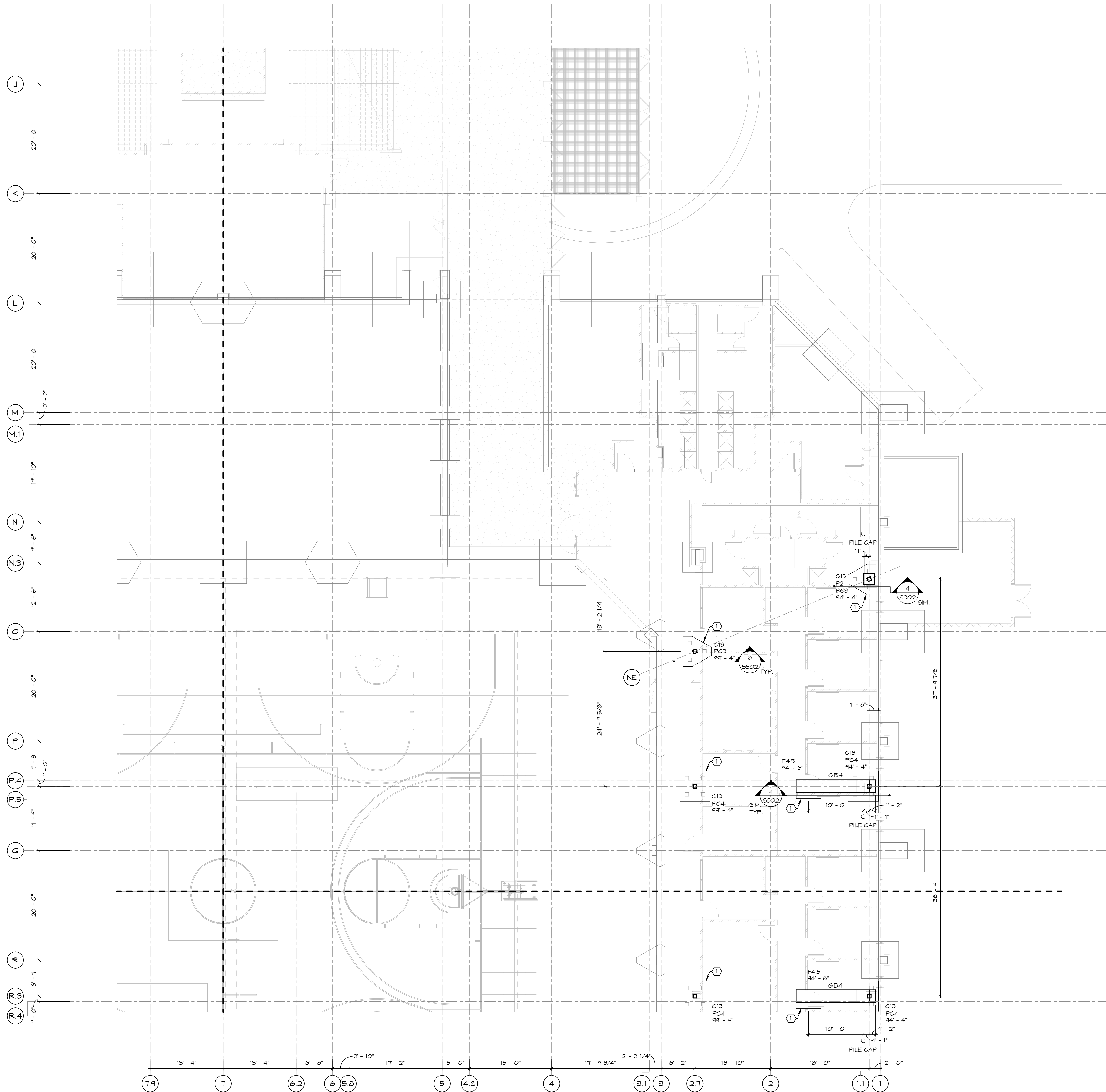
FOOTING & FOUNDATION PLAN
1/16" = 1'-0"

SHEET NOTES:

1. TOP OF GRADE BEAM ELEVATION = 99'-4" (U.O.N.)
2. WHERE EXISTING CONCRETE SLAB REMOVAL & REPLACEMENT IS REQUIRED TO INSTALL NEW FOUNDATIONS, SAW CUT & REMOVE RECTANGULAR/SQUARE PORTIONS AND REPLACE W/ 4" THICK CONCRETE SLAB-ON-GRADE OVER 6" FREE DRAINING GRANULAR FILL OVER 15 MIL VAPOR BARRIER. REINFORCE NEW SLAB W/ #3 @ 1'-0" O.C. DOWEL NEW SLAB TO EXISTING SLAB W/ 1/2" Ø x 1'-6" SMOOTH DOWELS @ 2'-0" O.C.
3. REMOVE AND REPLACE EXISTING NON-BRS CMU WALLS AND FOOTINGS AS NEEDED FOR INSTALLATION OF NEW FOUNDATION COMPONENTS. VERIFY LOCATION OF EXISTING CMU WALLS W/ ARCH.

KEY NOTES:

- ① REMOVE & REPLACE EXISTING CONCRETE SLAB AS NEEDED FOR INSTALLATION OF NEW FOUNDATIONS (PILE CAPS, GRADE BEAMS, FOOTINGS, ETC.).

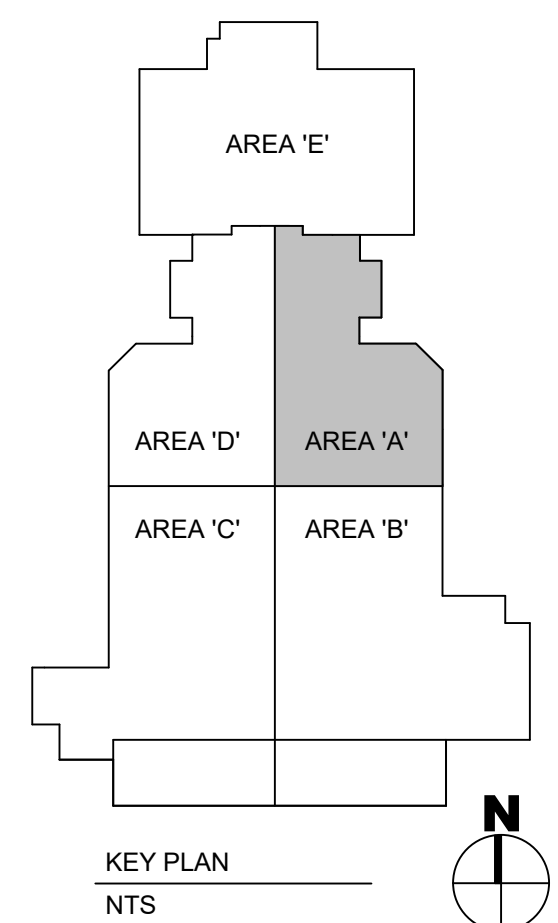


FOOTING & FOUNDATION PLAN - AREA A
1/8" = 1'-0"



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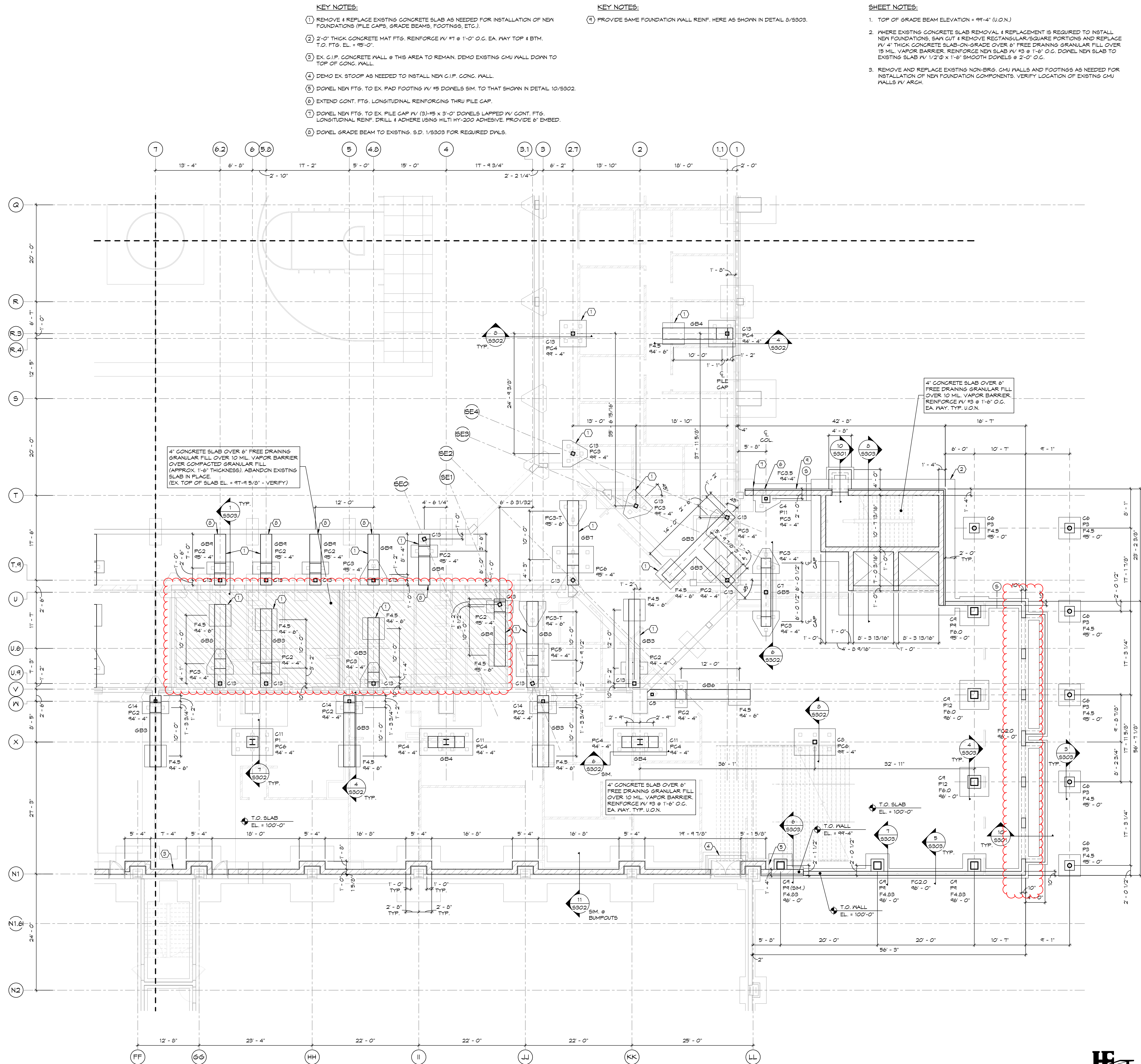
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FOOTING & FOUNDATION PLAN - AREA A

S101A

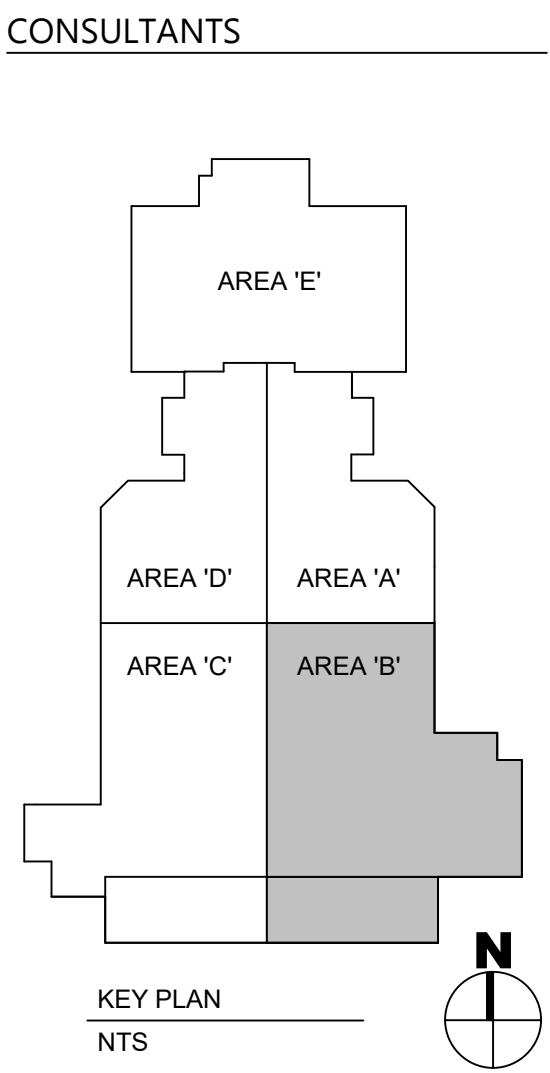




FOOTING & FOUNDATION PLAN - AREA B
1/8" = 1'-0"



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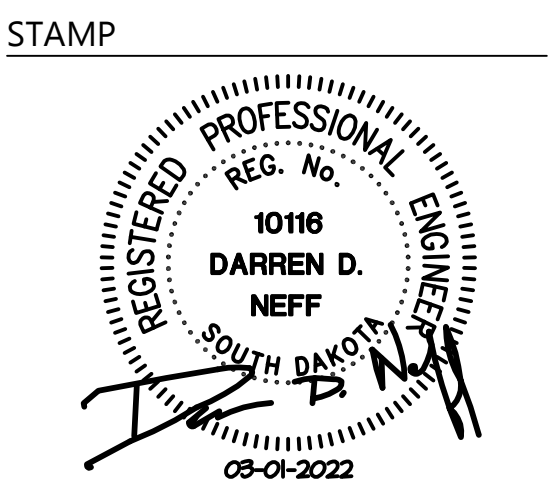
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FOOTING & FOUNDATION PLAN - AREA B

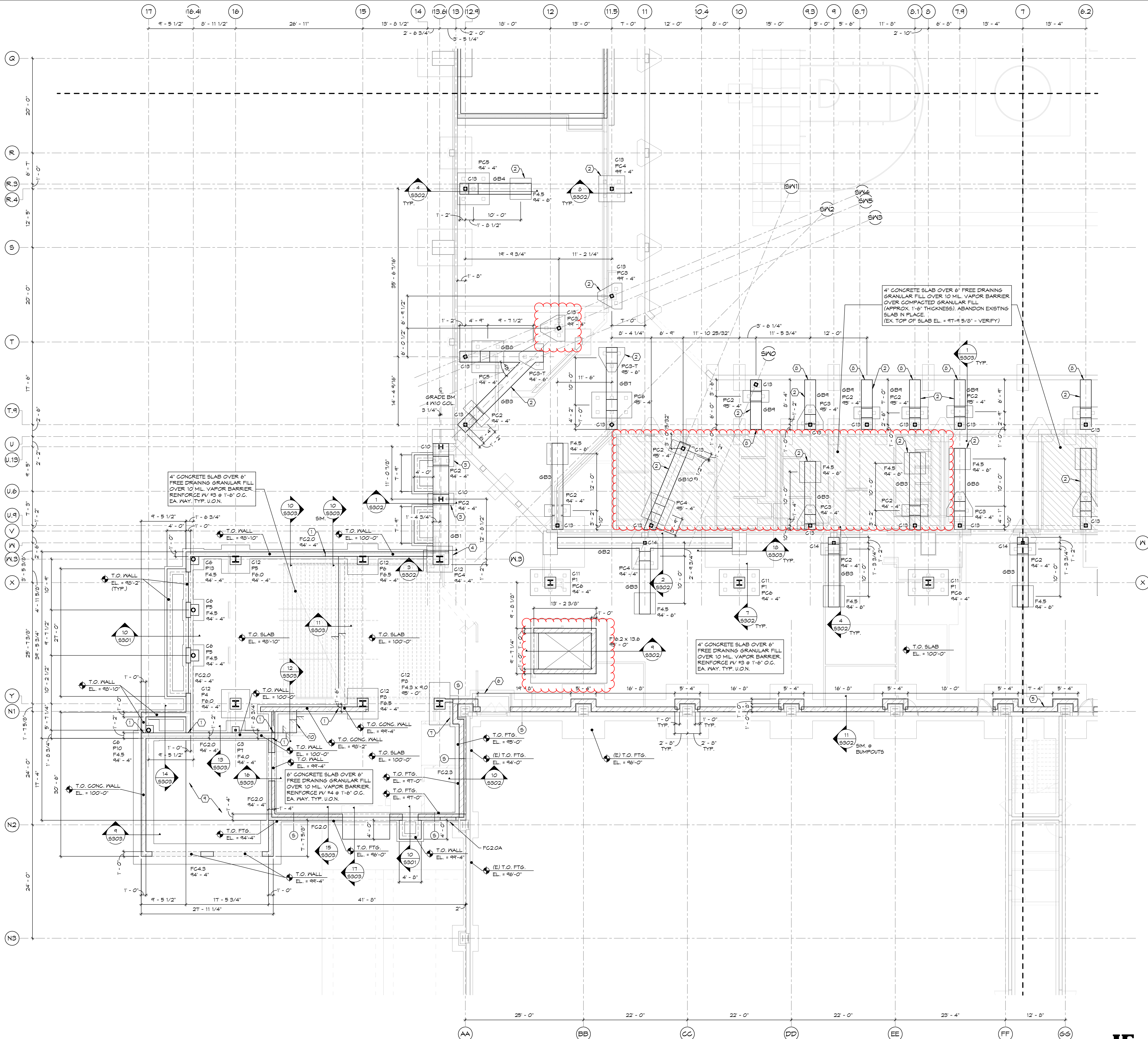
S101B

SHEET NOTES:

1. TOP OF GRADE BEAM ELEVATION = 99'-4" (U.O.N.)
2. WHERE EXISTING CONCRETE SLAB REMOVAL & REPLACEMENT IS REQUIRED TO INSTALL NEW FOUNDATIONS, SAW CUT & REMOVE RECTANGULAR/SQUARE PORTIONS AND REPLACE W/ 4" THICK CONCRETE SLAB-ON-GRADE OVER 6" FREE DRAINING GRANULAR FILL OVER 15 MIL. VAPOR BARRIER. REINFORCE NEW SLAB W/ #3 @ 1'-6" O.C. DONEL NEW SLAB TO EXISTING SLAB W/ 1/2" @ 1'-6" SMOOTH DONELS @ 2'-0" O.C.
3. REMOVE AND REPLACE EXISTING NON-BRS. CMU WALLS AND FOOTINGS AS NEEDED FOR INSTALLATION OF NEW FOUNDATION COMPONENTS. VERIFY LOCATION OF EXISTING CMU WALLS W/ ARCH.

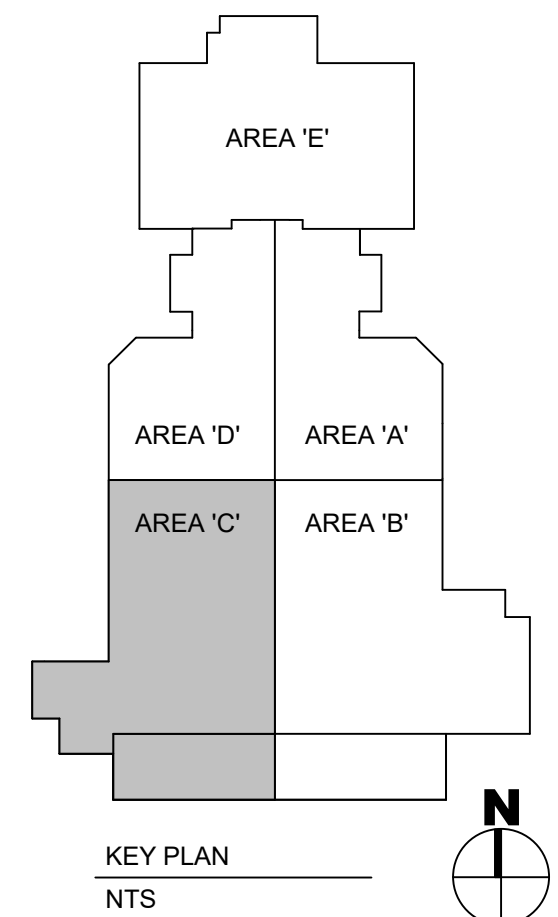
KEY NOTES:

- ① STEP LOCATION IN TOP OF FOUNDATION WALL.
- ② REMOVE & REPLACE EXISTING CONCRETE SLAB AS NEEDED FOR INSTALLATION OF NEW FOUNDATIONS (PILE CAPS, GRADE BEAMS, FOOTINGS, ETC.).
- ③ CENTER PILE CAP BELOW CENTERLINE OF #10 COLUMN/GRADE BEAM.
- ④ CENTER PILE CAP BELOW #14 COLUMN.
- ⑤ EX. C.I.P. CONCRETE WALL @ THIS AREA TO REMAIN. DEMO EXISTING CMU WALL DOWN TO TOP OF CONC. WALL.
- ⑥ DEMO EX. STUOP AS NEEDED TO INSTALL NEW C.I.P. CONC. WALL.
- ⑦ DONEL NEW FTG. TO EX. PAD FOOTING W/ #3 DONELS SIM. TO THAT SHOWN IN DETAIL 10/S302.
- ⑧ DONEL GRADE BEAM TO EXISTING, S.D. 1/S303 FOR REQUIRED DONLS.
- ⑨ SEE CIVIL DRAWINGS FOR TRASH ENCLOSURE SLAB.
- ⑩ S.D. 12/S303 FOR REQUIRED THICKENED SLABS @ CHANGE IN FLOOR ELEVATION.

FOOTING & FOUNDATION PLAN - AREA C
1/8" = 1'-0"

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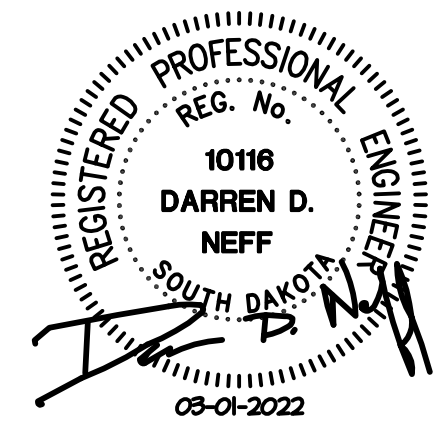
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FOOTING &
FOUNDATION PLAN -
AREA C

S101C

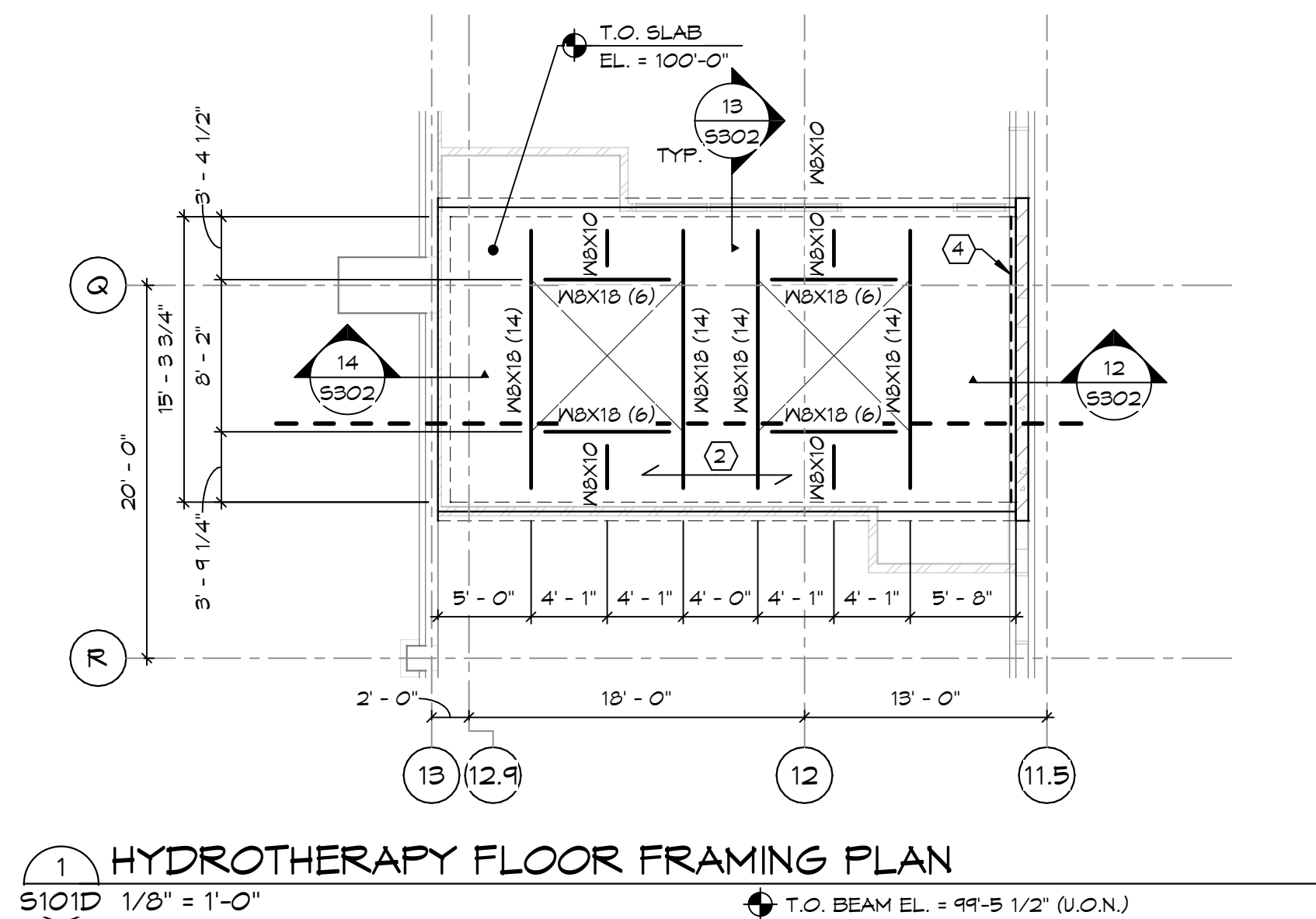


SHEET NOTES:

1. TOP OF GRADE BEAM ELEVATION = 99'-4" (U.O.N.)
2. WHERE EXISTING CONCRETE SLAB REMOVAL & REPLACEMENT IS REQUIRED TO INSTALL NEW FOUNDATIONS, SAN CUT & REMOVE RECTANGULAR/SQUARE PORTIONS AND REPLACE W/ 4" THICK CONCRETE SLAB-ON-GRADE OVER 6" FREE DRAINING GRANULAR FILL OVER 15 MIL VAPOUR BARRIER. REINFORCE NEW SLAB W/ 15 @ 1'-0" O.C. DOVEL NEW SLAB TO EXISTING SLAB W/ 1'-0" X 1'-6" SMOOTH DOVELS @ 2'-0" O.C.
3. REMOVE AND REPLACE EXISTING NON-BRG. CMU WALLS AND FOOTINGS AS NEEDED FOR INSTALLATION OF NEW FOUNDATION COMPONENTS. VERIFY LOCATION OF EXISTING CMU WALLS W/ ARCH.

KEY NOTES:

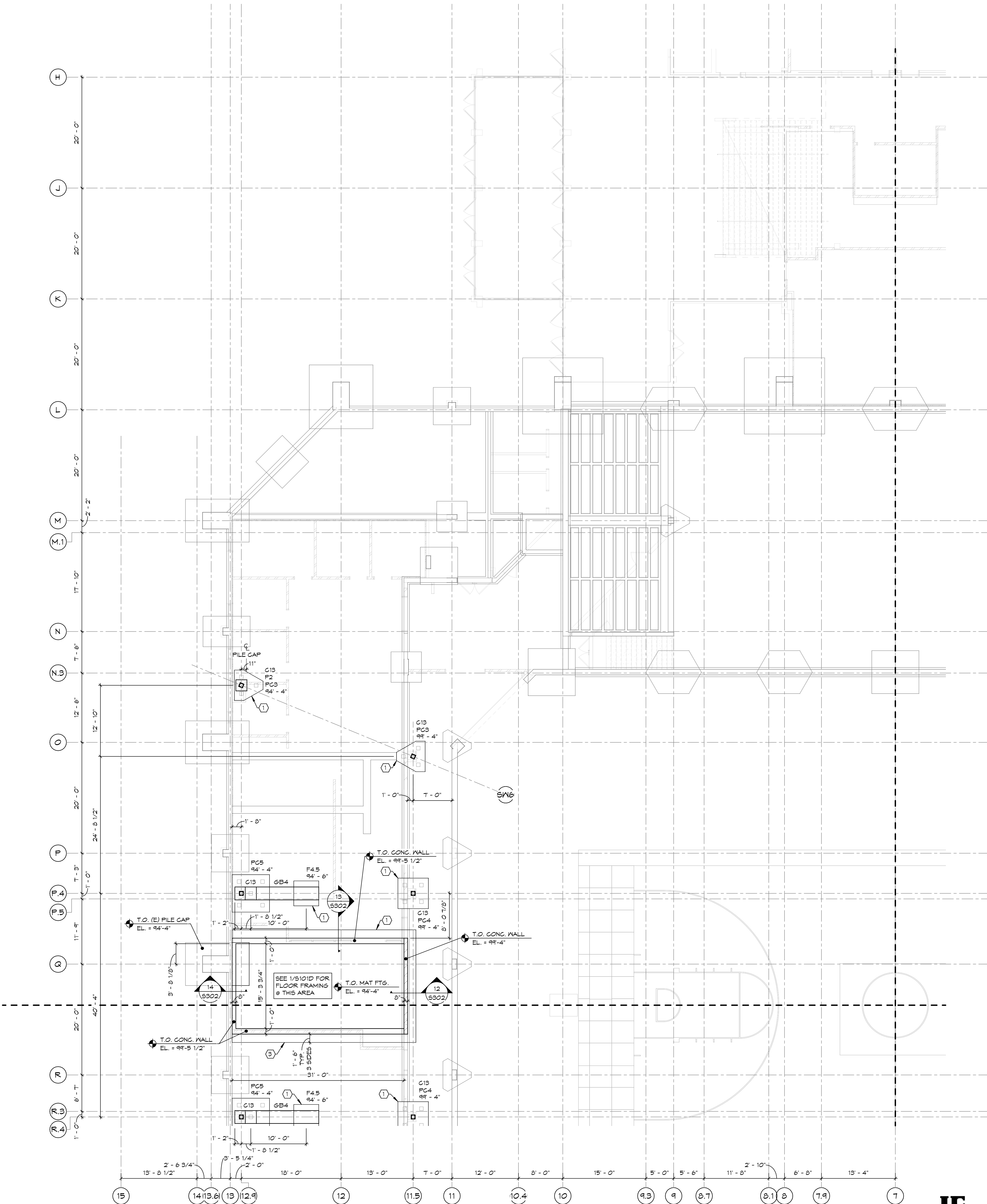
1. REMOVE & REPLACE EXISTING CONCRETE SLAB AS NEEDED FOR INSTALLATION OF NEW FOUNDATIONS (PILE CAPS, GRADE BEAMS, FOOTINGS, ETC.).
2. 4 1/2" THICK NORMAL WEIGHT CONCRETE OVER 2"x18 GA. VULCRAFT VLI COMPOSITE DECK (6 1/2" TOTAL THICKNESS). REINFORCE SLAB W/ 15 @ 1'-0" O.C. EA. WAY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING W/ 5/8"x10" PUDDLE WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF PUDDLE WELD). FASTEN SIDELAPS W/ 3/8"x1 1/2" ARC SEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3)-SPAN CONDITION (MIN.) WHERE POSSIBLE.
3. 1'-0" THICK CONCRETE MAT FOOTING. REINFORCE W/ 15 @ 1'-0" O.C. EA. WAY TOP & BTM. VERIFY W/ MECH. & ARCH. FOR HOUSEKEEPING PADS REQUIRED BELOW TUBS. DOVEL NEW MAT FTG. TO EXISTING PILE CAP W/ 15 @ 3'-0" DVLs @ 2'-0" O.C. DRILL & ADHERE DVLs TO EXISTING PILE CAP USING HILTI HY-200 ADHESIVE. PROVIDE 6" EMBEDMENT. POSITION DVLs @ MID-DEPTH OF NEW FTG. PROVIDE DVLs @ 3 SIDES OF EXISTING PILE CAP.
4. 15x5x3/8" CONT. ANGLE FOR SLAB SUPPORT. S.D. 12/5302.



1 HYDROTHERAPY FLOOR FRAMING PLAN

S101D 1/8" = 1'-0"

T.O. BEAM EL. = 99'-5 1/2" (U.O.N.)



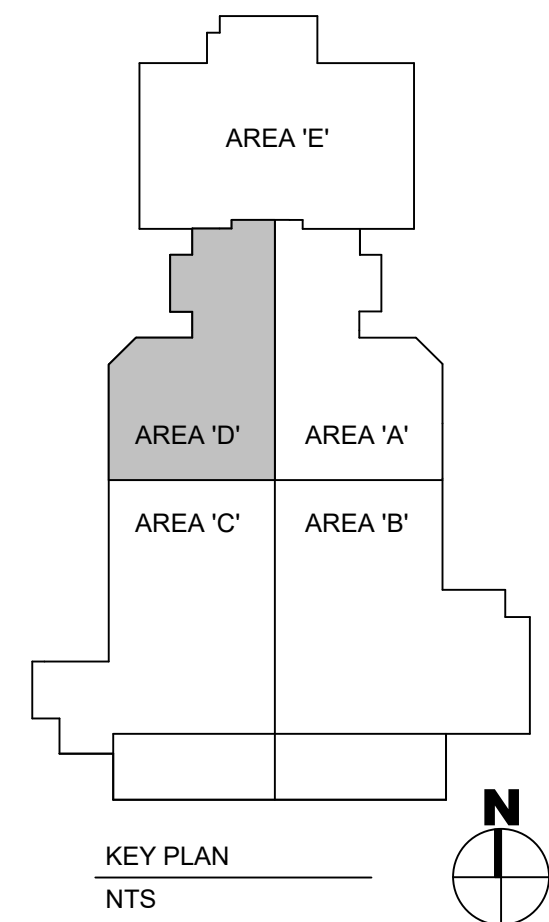
FOOTING & FOUNDATION PLAN - AREA D

1/8" = 1'-0"



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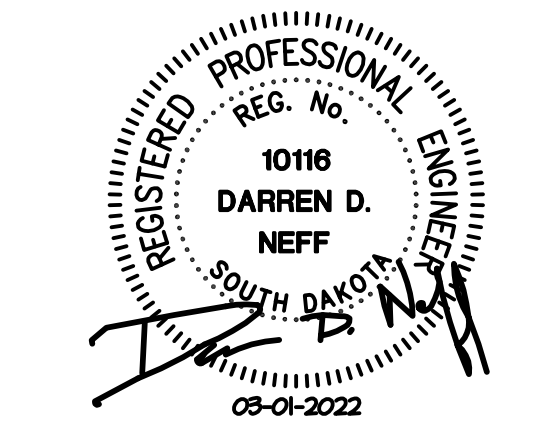
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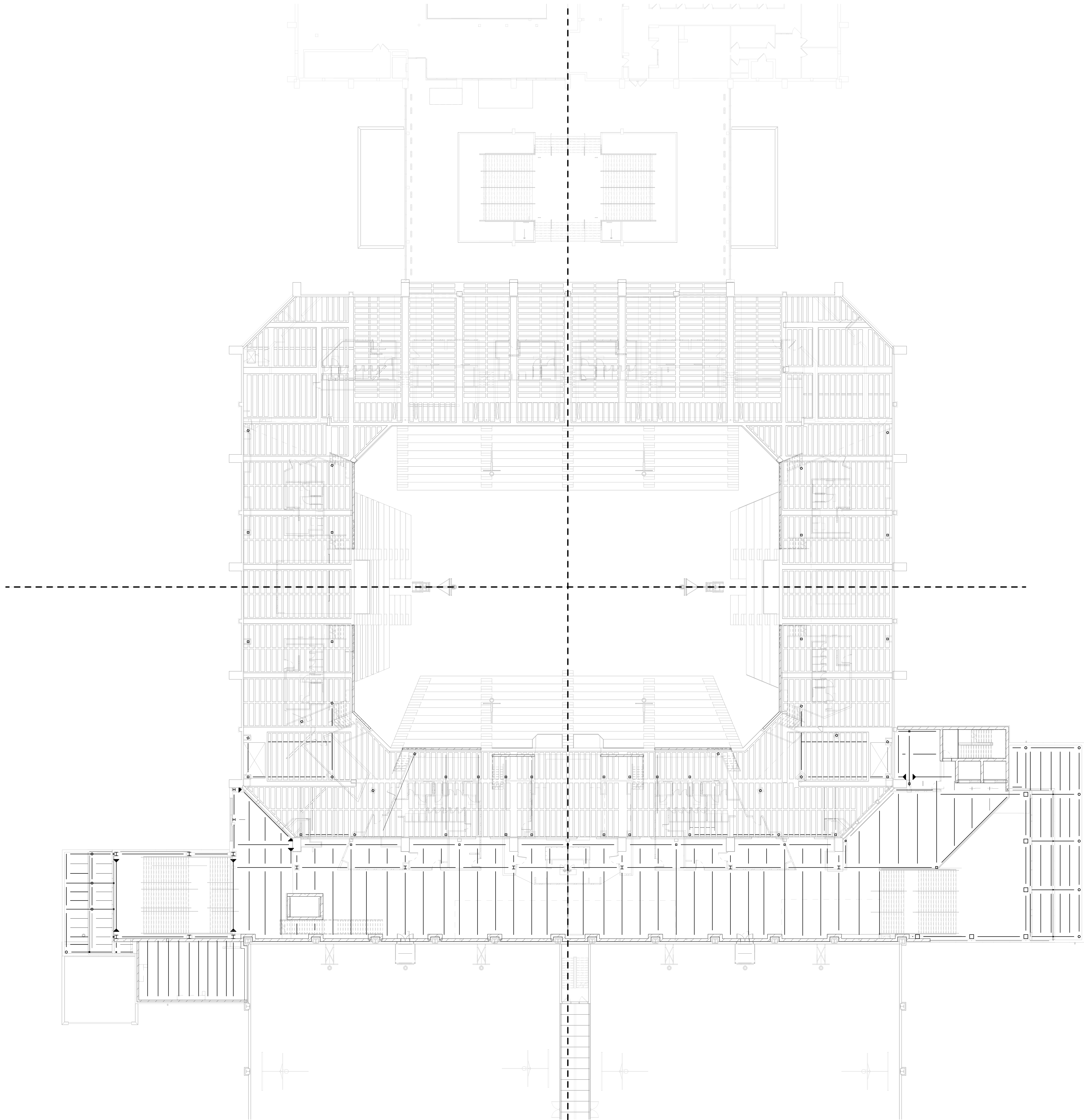


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FOOTING & FOUNDATION PLAN - AREA D

S101D



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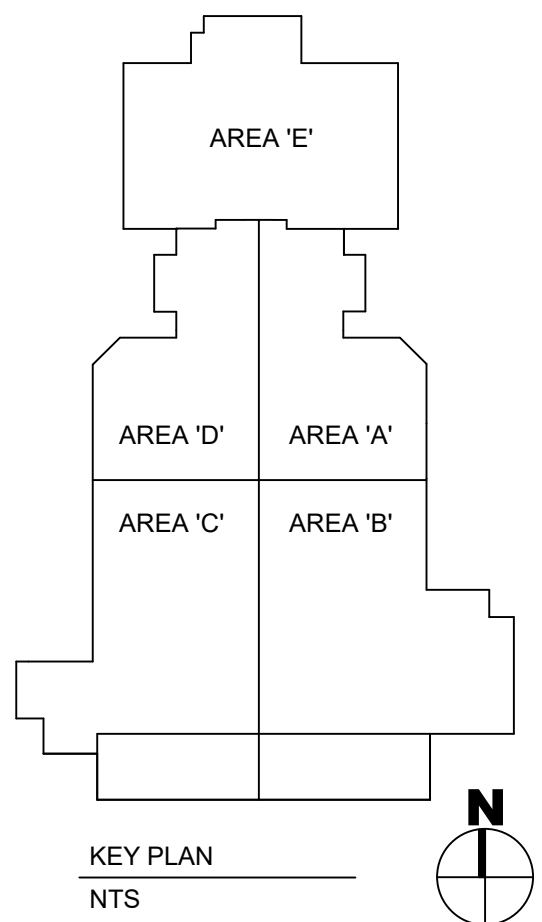


SECOND FLOOR FRAMING PLAN - OVERALL
1/16" = 1'-0"



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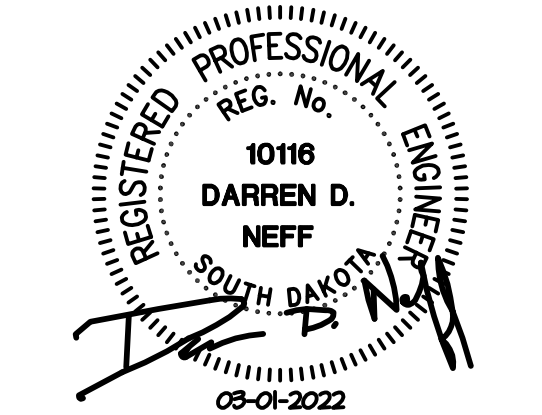
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SECOND FLOOR
FRAMING PLAN -
OVERALL

S201

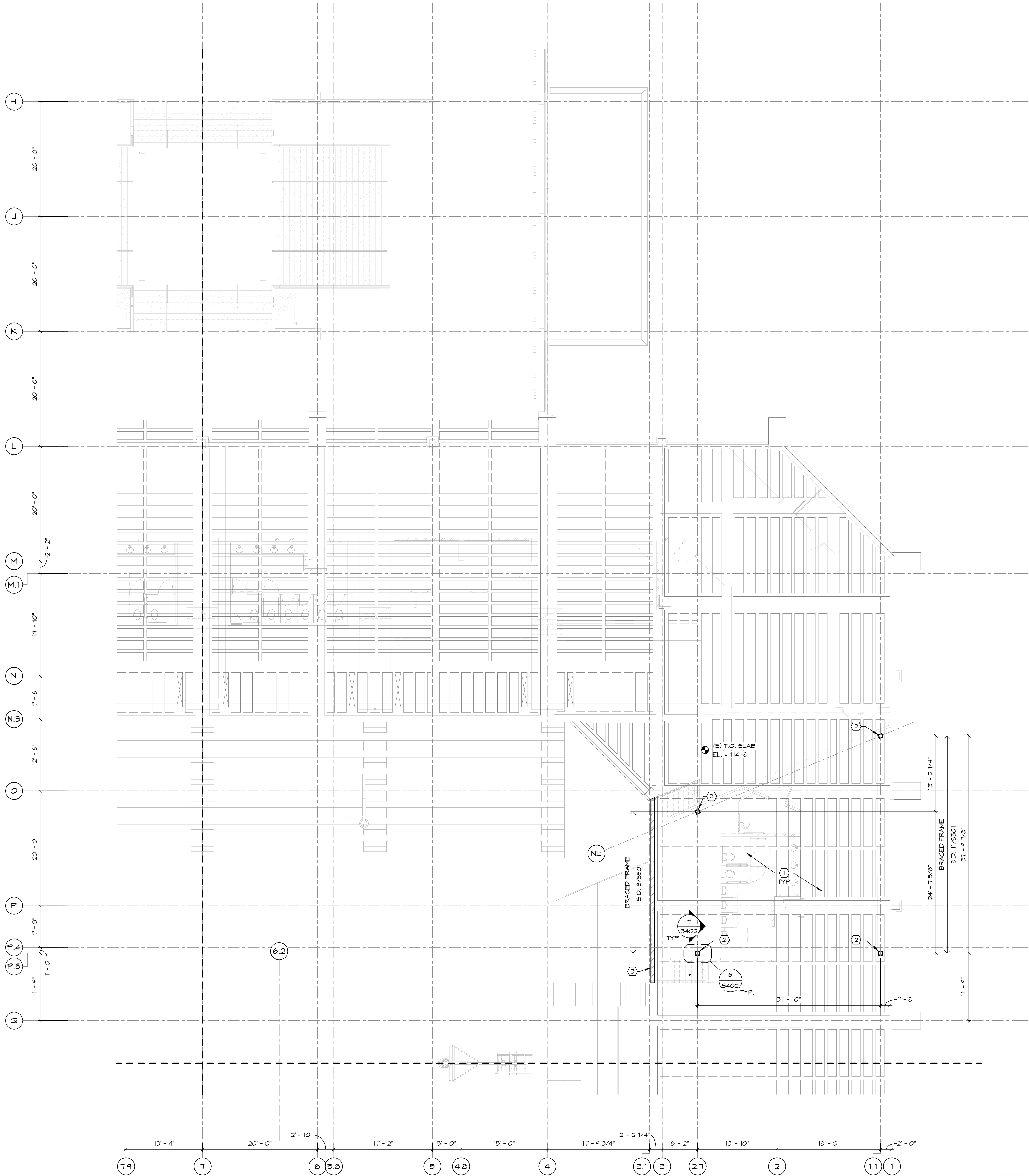


SHEET NOTES:

1. WHERE NEW COLUMN LOCATIONS REQUIRE CORE-DRILLING THRU AN EXISTING CONCRETE JOIST, PROVIDE TEMP. SHORING OF EXISTING CONCRETE JOIST UNTIL NEW STEEL COLUMN & SUPPORT ANGLES ARE INSTALLED AS SHOWN IN DETAIL 7/5402.

KEY NOTES:

- (1) EX. CONCRETE PAN & JOIST FLOOR SYSTEM 1/4" 3" THICK SLAB & 1'-1" OVERALL DEPTH @ JOISTS - VERIFY.
(2) NEW STEEL COLUMNS FOR SUPPORT OF PRECAST STADIA SEATING AND STEEL RAKER BEAMS ABOVE. S.D. 6/5402 & 7/5402.
(3) 8" CMU WALL FOR SUPPORT OF PRECAST STADIA & STAIRS. COORDINATE T.O. WALL 1/4" PC SUPPLIER & ARCH. S.D. 5/5404.

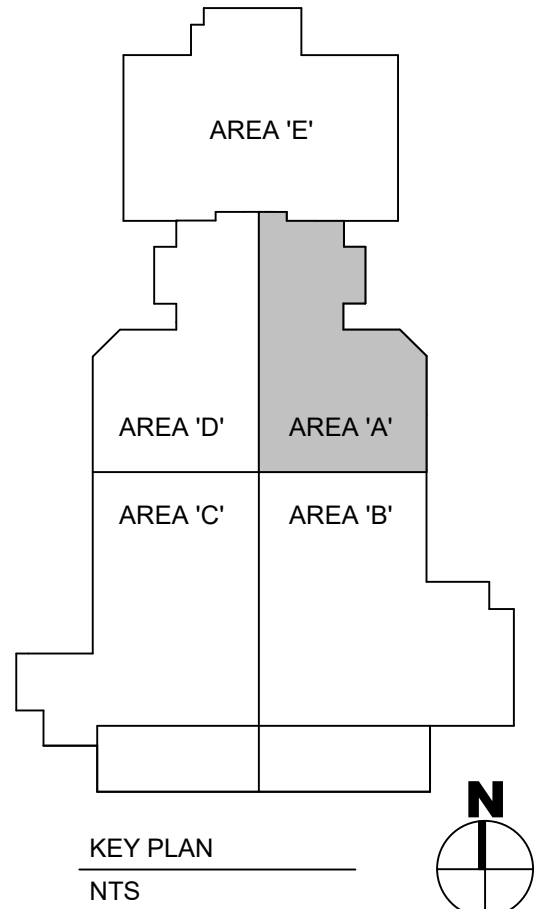


SECOND FLOOR FRAMING PLAN - AREA A
1/8" = 1'-0"



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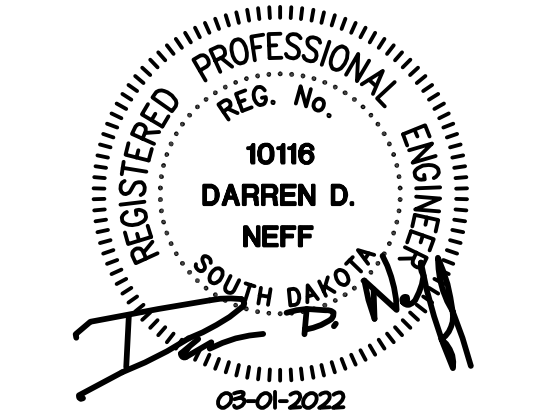
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SECOND FLOOR
FRAMING PLAN - AREA
A

S201A

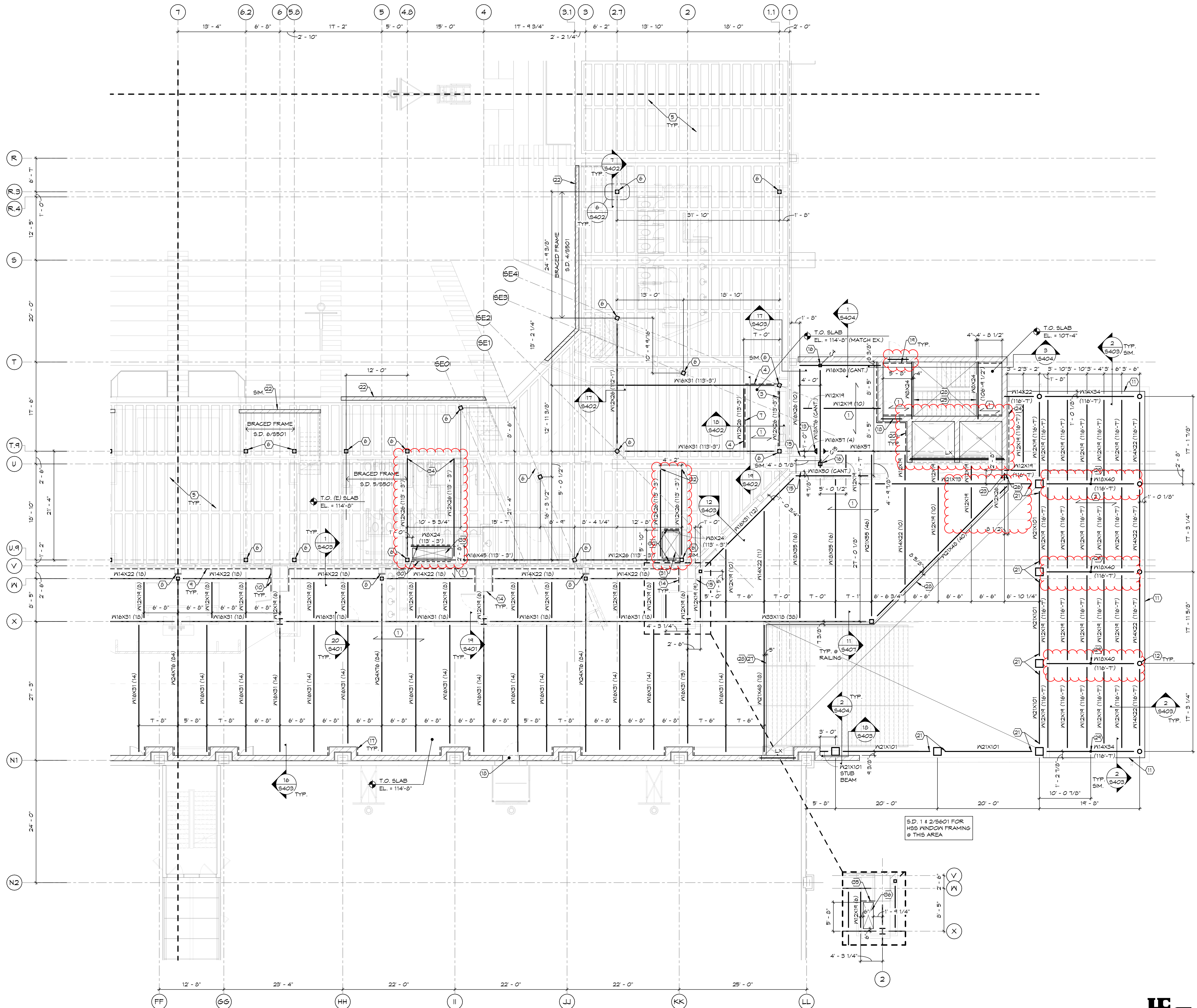


SHEET NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS.
2. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
3. S.D. 2/5401 FOR TYP. WELDED ANGLE FRAME REQUIRED @ ROOF PENETRATIONS.
4. WHERE NEW COLUMN LOCATIONS REQUIRE CORE-DRILLING THRU AN EXISTING CONCRETE JOIST, PROVIDE TEMP. SHORING OF EXISTING CONCRETE JOIST UNTIL NEW STEEL COLUMN & SUPPORT ANGLES ARE INSTALLED AS SHOWN IN DETAIL 1/5402.

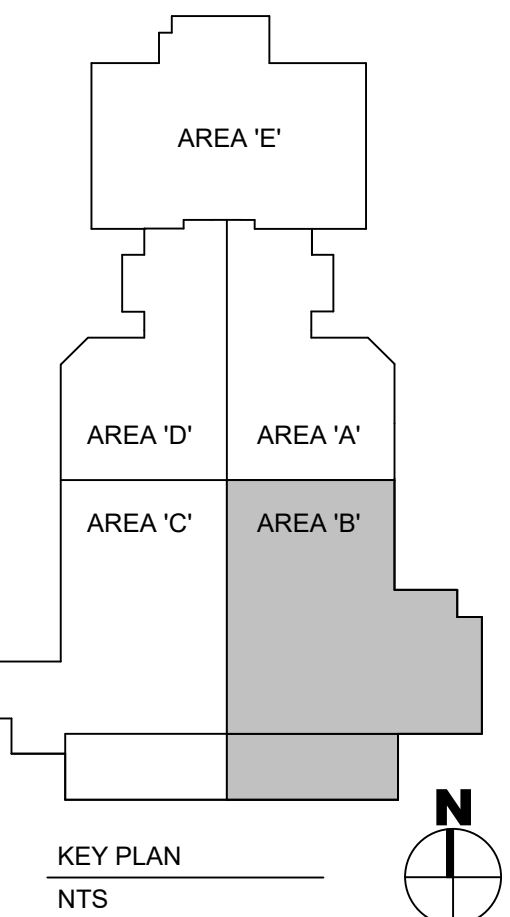
KEY NOTES:

- 1 1/2" THICK NORMAL WEIGHT CONCRETE OVER 2" x 10 GA. VULCRAFT VLI COMPOSITE DECK (6 1/2" TOTAL THICKNESS). REINFORCE SLAB W/ #3 @ 1'-0" O.C. EA. MAY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING W/ 5/8" PURLIN WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF PUDDLE WELD). FASTEN SIDELAP W/ 3/8"x1 1/2" ARC BEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3)-SPAN CONDITION (MIN.) WHERE POSSIBLE.
- 1 1/2" x 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK. FASTEN TO ROOF FRAMING W/ 5/8" PURLIN WELDS ON A 36/4 PATTERN W/ (1)-#10 TEK SCREW PER SPAN. FASTEN TO PERIMETER FRAMING W/ 5/8" PURLIN WELDS @ 6" O.C. PROVIDE (3)-SPAN CONDITION (MIN.).
- W10X30 SPACER BEAM WELDED TO TOP OF W12 BEAM. S.D. 10/5402.
- HSS 4x4x3/8" TUBE WELDED TO TOP OF STL. BEAM.
- EX. CONCRETE FAN & JOIST FLOOR SYSTEM W/ 3" THICK SLAB & 1'-1" OVERALL DEPTH @ JOISTS - VERIFY.
- NEW STEEL COLUMNS FOR SUPPORT OF PRECAST STADIA SEATING AND STEEL RAKER BEAMS ABOVE. S.D. 6/5402 & 1/5402. (8 SIM. OMIT COLLAR SHOWN IN DETAILS @ 1/5402).
- L4x4x1/4" CONT. ANGLE. S.D. 10/5402.
- L4x4x1/4" x 1'-4" ANGLE. FASTEN TO EX. CONCRETE COLUMN W/ (2)-1/2"x4" SIMPSON TITEN HD SCREW ANCHORS. PROVIDE 6" GAGE DISTANCE @ ANCHORS.
- L4x4x1/4" CONT. ANGLE. S.D. 1/5403.
- L4x4x1/4" CONT. ANGLE. FASTEN TO EX. CONG. COLUMN W/ 1/2"x4" SIMPSON TITEN HD SCREW ANCHORS @ 5" O.C.
- DENOTES CONT. BENT PLATE @ ROOF EDGE.
- PROVIDE STIFFENER PLATE WELDED TO COLUMN FOR CONT. BENT PLATE SUPPORT SIM. TO THAT SHOWN IN DETAIL 2/5403.
- MOMENT CONNECTION. S.D. 11/5403.
- S.D. 11/5402 FOR CONNECTION OF BEAM TO EX. CONG. COLUMN.
- S.D. 12/5403 FOR CONT. BENT PLATE @ SLAB EDGE @ THIS AREA.
- S.D. 13/5403 FOR REQUIREMENTS @ STACKED COLUMNS.
- L4x4x1/4" x 1'-1" ANGLE W/ (2)-5/8"x5" SIMPSON TITEN HD SCREW ANCHORS. PROVIDE 6" GAGE DIM. @ ANCHORS.
- PROVIDE BENT BAR DVLS TO SLAB SIM. TO DETAIL 6/5403.
- PROVIDE SAME L4x4 CONT. AS SHOWN IN DETAIL 3/5404 @ SIDES OF STAIR LANDINGS.
- S.D. 4/5404 FOR CONT. ANGLE.
- S.D. 10/5403 FOR ADDITIONAL ANGLES REQUIRED @ BEAM-COLUMN CONNECTIONS.
- 8" CMU WALL FOR SUPPORT OF PRECAST STADIA & STAIRS. COORDINATE T.O. WALL W/ FC SUPPLIER & ARCH. S.D. 5/5404.
- S.D. 4/5401 FOR CONNECTION STL. BEAM TO CMU WALL AT THIS LOCATION.
- L5x3x3/8" CONT. ANGLE SIM. TO DETAIL 6/5403.
- S.D. 10/5401 FOR TYP. SLAB EDGE @ STAIRS.
- S.D. 4/5401 FOR CONNECTION OF STL. BEAM TO CMU WALL AT THIS LOCATION.
- PROVIDE SAME SLAB EDGE DETAIL AS SHOWN IN DETAIL 10/5401.
- DENOTES SLAB EDGE.
- HSS 3x3x1/4" HANGER DOWN TO HSS WINDOW FRAMING BELOW. S.D. 1/5403.
- HSS 4x4x3/8" BETWEEN TOP OF STL. BEAM AND UNDERSIDE OF EX. CONG. JOIST FLOOR SYSTEM SIM. TO DETAIL 10/5402.
- CUT NEW 5'-2"x3'-6" MECH. OPENING THRU EX. CONG. FLOOR AFTER ADDITIONAL STEEL FRAMING IS INSTALLED. (VERIFY SIZE W/ MECH.)
- S.D. 14/5401 FOR STL. BEAM CONNECTION TO EX. CONG. BEAM.
- CUT NEW 1'-10"x3'-0" MECH. OPENING THRU EX. CONG. FLOOR AFTER ADDITIONAL STEEL FRAMING IS INSTALLED. (VERIFY SIZE W/ MECH.)
- POCKET NEW BEAM INTO EX. 1'-0" CMU WALL. PROVIDE 8" BRG. AND FILL 4 COURSES SOLID BELOW BEAM BEARING.
- PROVIDE 6 1/2"x6 1/2"x3/8" BENT PLATE BETWEEN BENT PLATES @ BEAMS. NOTCH @ EX. COLUMN AS NEEDED.
- MECH. PENETRATION THRU FLOOR. S.D. 22/5401 FOR SLAB EDGE DETAIL @ TYP. MECH. PENETRATIONS @ NEW COMPOSITE FLOOR. VERIFY SIZE W/ MECH.



SECOND FLOOR FRAMING PLAN - AREA B
1/8" = 1'-0"

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PROJECT DESCRIPTION
FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

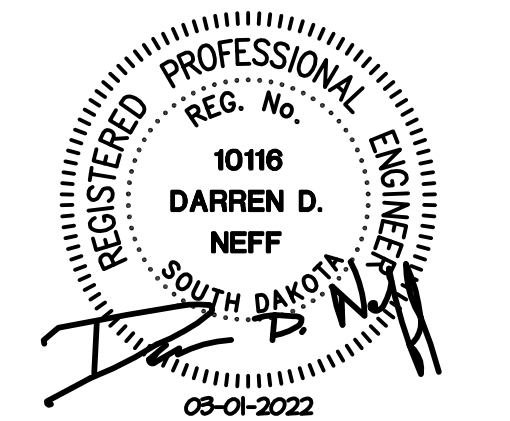
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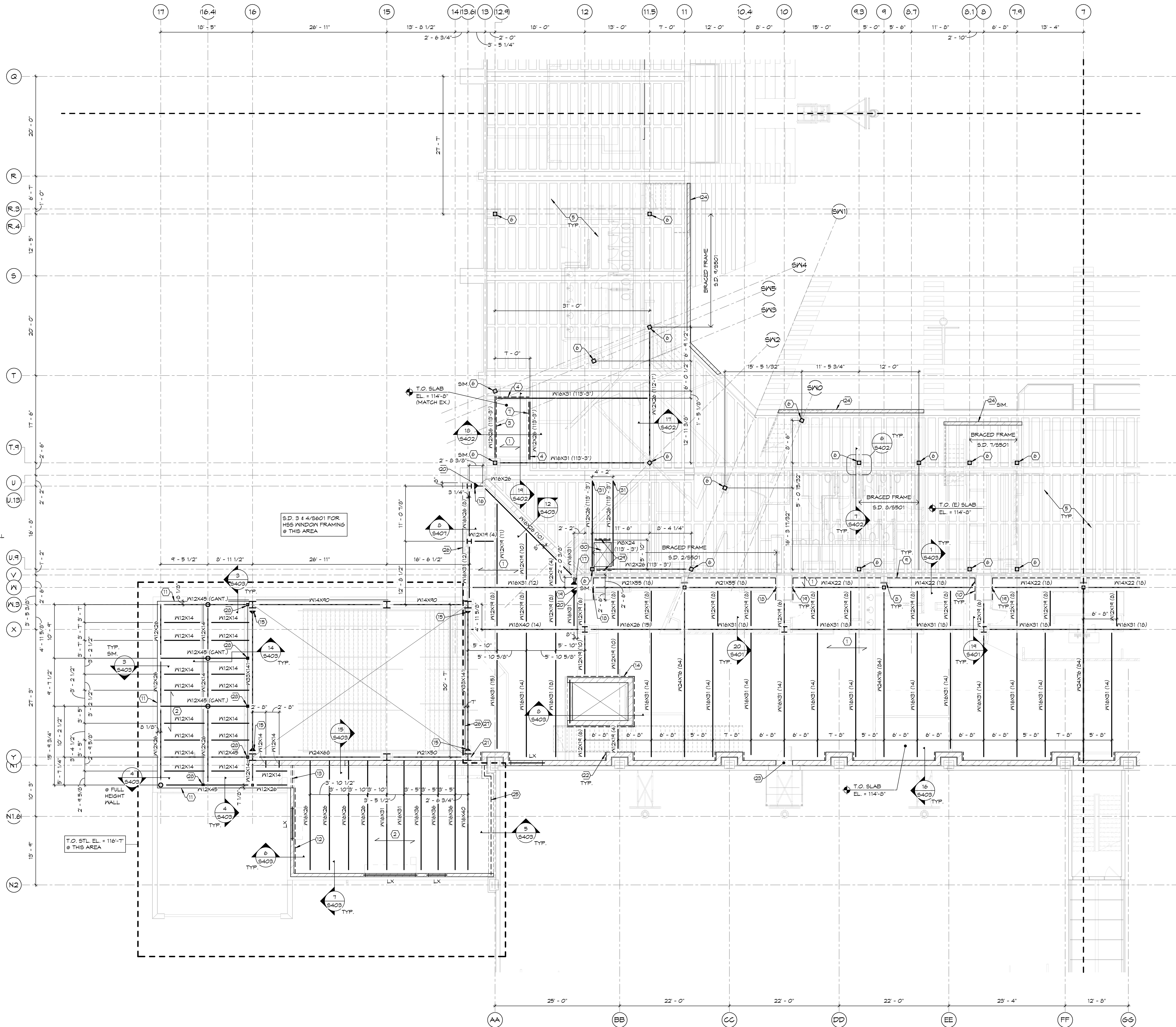
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SECOND FLOOR FRAMING PLAN - AREA B

SHEET NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS.
2. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
3. S.D. 2/5401 FOR TYP. WELDED ANGLE FRAME REQUIRED @ ROOF PENETRATIONS.
4. WHERE NEW COLUMN LOCATIONS REQUIRE CORE-DRILLING THRU AN EXISTING CONCRETE JOIST, PROVIDE TEMP. SHORING OF EXISTING CONCRETE JOIST UNTIL NEW STEEL COLUMN & SUPPORT ANGLES ARE INSTALLED AS SHOWN IN DETAIL T/5402.

KEY NOTES:

- 1 1/2" THICK NORMAL WEIGHT CONCRETE OVER 2" x 18 GA. VULCRAFT VLI COMPOSITE DECK (6 1/2" TOTAL THICKNESS). REINFORCE SLAB W/ #3 @ 1'-0" O.C. EA. MAY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING W/ 5/8" PULLED WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF PULLED WELD). FASTEN SIDELAPS W/ 3/8"x1 1/2" ARC SEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3)-SPAN CONDITION (MIN.) WHERE POSSIBLE.
- 1 1/2" x 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK. FASTEN TO ROOF FRAMING W/ 5/8" PULLED WELDS ON A 36/7 PATTERN W/ (1)-#10 TEK SCREW PER SPAN. FASTEN TO PERIMETER FRAMING W/ 5/8" PULLED WELDS @ 6" O.C. PROVIDE (3)-SPAN CONDITION (MIN.).
- W10x30 SPACER BEAM WELDED TO TOP OF W12. S.D. 10/5402.
- HSS 4x4x3/8" TUBE WELDED TO TOP OF STL. BEAM.
- EX. CONCRETE PAN & JOIST FLOOR SYSTEM W/ 3" THICK SLAB & 1'-1" OVERALL DEPTH @ JOISTS - VERIFY.
- NEW STEEL COLUMNS FOR SUPPORT OF PRECAST STADIA SEATING AND STEEL RAKER BEAMS ABOVE. S.D. 6/5402 & T/5402. (8 SIM. OMIT COLLAR SHOWN IN DETAILS 6 & T/5402).
- L4x4x1/4" CONT. ANGLE. S.D. 10/5402.
- L4x4x1/4" x 1'-4" ANGLE. FASTEN TO EX. CONCRETE COLUMN W/ (2)-1/2"x4" SIMPSON TITEN HD SCREW ANCHORS. PROVIDE 8" GAGE DISTANCE @ ANCHORS.
- L4x4x1/4" CONT. ANGLE. S.D. 1/5403.
- L4x4x1/4" CONT. ANGLE. FASTEN TO EX. CONG. COLUMN W/ 1/2"x4" SIMPSON TITEN HD SCREW ANCHORS @ 8" O.C.
- DENOTES CONT. BENT PLATE @ ROOF EDGE.
- L5x3x3/8" CONT. ANGLE. S.D. 6/5403.
- PROVIDE 3/8"x3" CONT. PLATE W/ 1/2"x4" HCA @ 2'-0" @ TOP OF WALL SIM. TO DETAIL 5/5403.
- L4x4x1/4" ANGLE. S.D. 8/5403.
- MOMENT CONNECTION. S.D. 9/5403.
- MOMENT CONNECTION. S.D. 10/5403.
- MOMENT CONNECTION. S.D. 11/5403.
- S.D. 12/5403 FOR CONNECTION OF BEAM TO EX. CONG. COLUMN.
- S.D. 11/5402 FOR CONNECTION OF BEAM TO EX. CONG. COLUMN.
- S.D. 12/5403 FOR CONT. BENT PLATE @ SLAB EDGE AT THIS AREA.
- PROVIDE L4x4x1/4" ANGLE WELDED TO COLUMN FOR DECK SUPPORT.
- L4x4x1/4" x 1'-1" ANGLE W/ (2)-5/8"x5" SIMPSON TITEN HD SCREW ANCHORS. PROVIDE 8" GAGE DIM. @ ANCHORS.
- PROVIDE BENT BAR DVLS TO SLAB SIM. TO DETAIL 6/5403.
- 8" CMU WALL FOR SUPPORT OF PRECAST STADIA & STAIRS. COORDINATE T.O. WALL W/ PC SUPPLIER & ARCH. S.D. 5/5404.
- CONT. EMBED. PLATE @ TOP OF WALL. S.D. 5/5403.
- DENOTES SLAB EDGE.
- PROVIDE SAME SLAB EDGE DETAIL AS SHOWN IN DETAIL 10/5407.
- HSS 5x5x1/4" HANGER DOWN TO HSS WINDOW FRAMING BELOW. S.D. 6/5403.
- HSS 4x4x3/8" BETWEEN TOP OF STL. BEAM AND UNDERSIDE OF EX. CONG. JOIST FLOOR SYSTEM SIM. TO DETAIL 10/5402.
- CUT NEW 5'-2"x3'-6" MECH. OPENING THRU EX. CONG. FLOOR AFTER ADDITIONAL STEEL FRAMING IS INSTALLED. (VERIFY SIZE W/ MECH.)
- S.D. 14/5401 FOR STL. BEAM CONNECTION TO EX. CONG. BEAM.

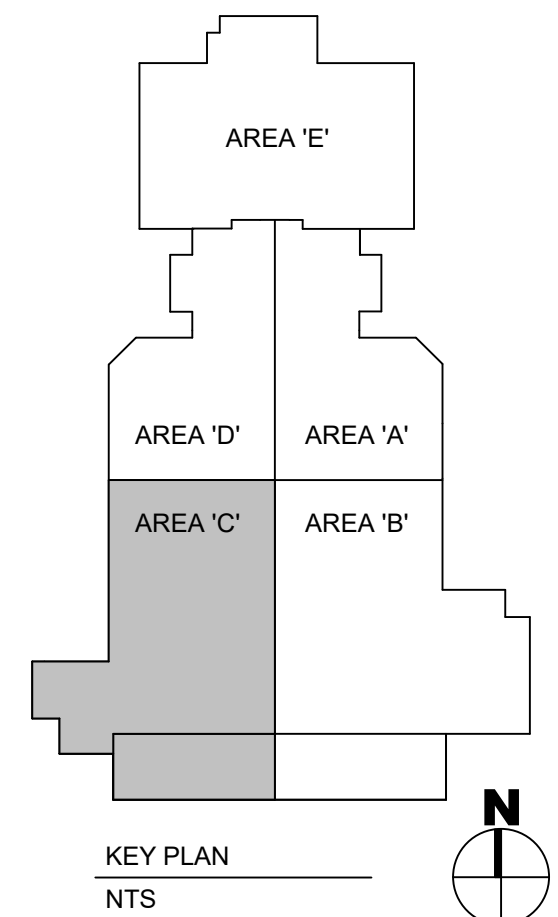


SECOND FLOOR FRAMING PLAN - AREA C

1/8" = 1'-0"

T.O. STL. EL. = 114'-1 1/2" (V.O.N.)

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PROJECT DESCRIPTION

FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO22-103751)CITY BROOKINGS
STATE SOUTH DAKOTA

ISSUE DATES

BP01 BID PACKAGE 01	03/01/2022
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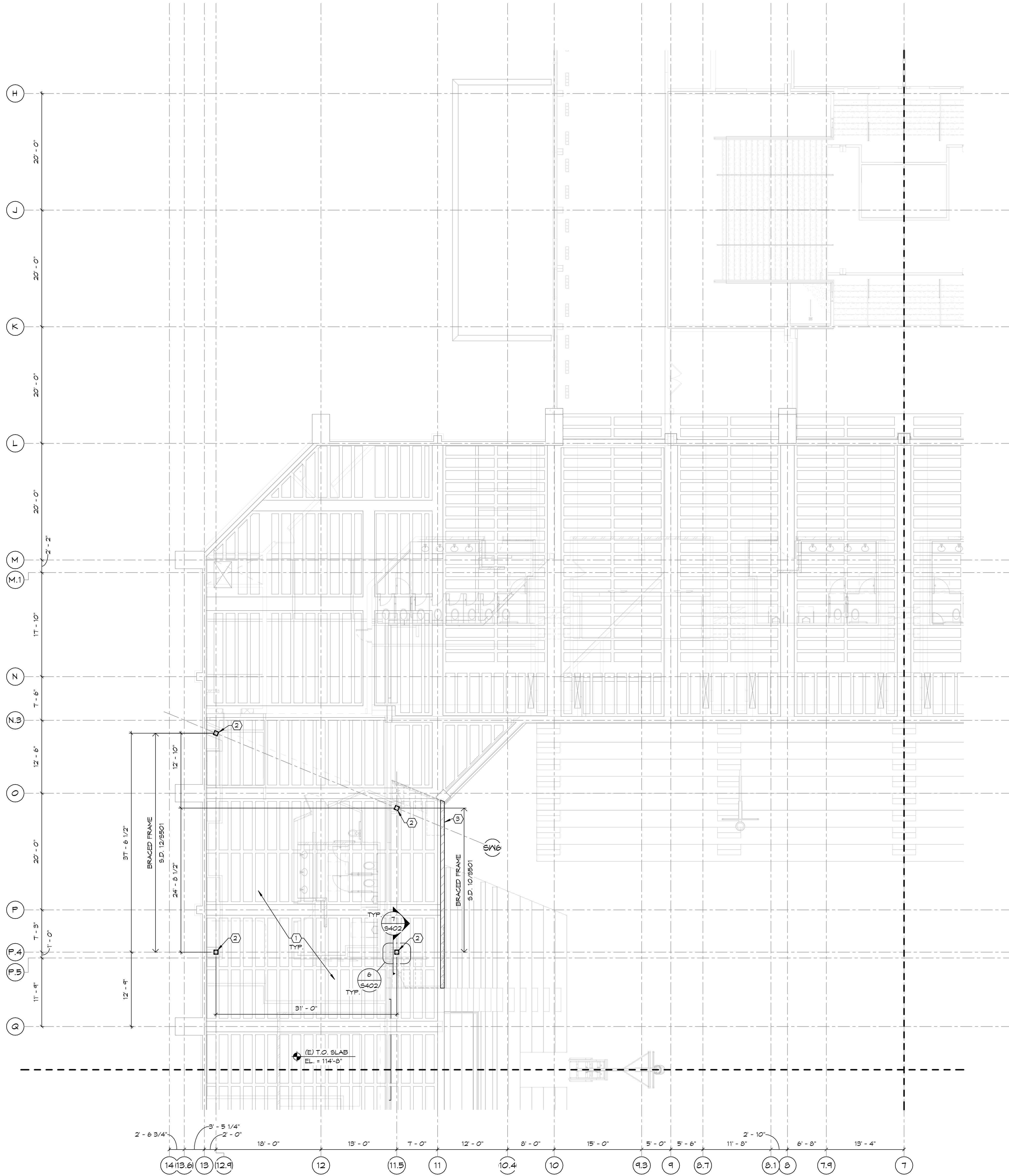
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SECOND FLOOR FRAMING PLAN - AREA C

SHEET NOTES:

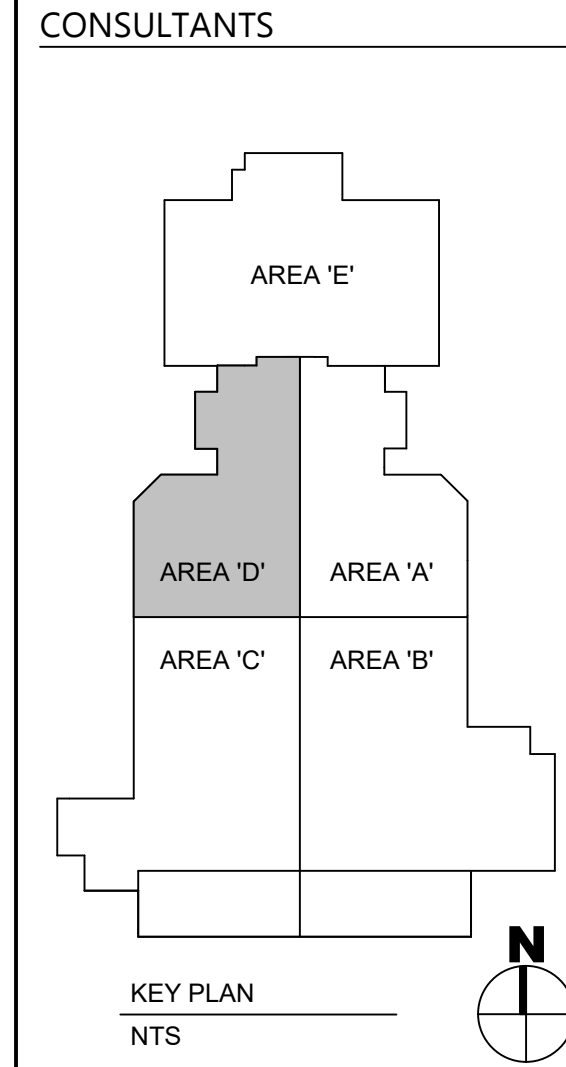
1. WHERE NEW COLUMN LOCATIONS REQUIRE CORE-DRILLING THRU AN EXISTING CONCRETE JOIST, PROVIDE TEMP. SHORING OF EXISTING CONCRETE JOIST UNTIL NEW STEEL COLUMN & SUPPORT ANGLES ARE INSTALLED AS SHOWN IN DETAIL 7/5402.

- KEY NOTES:
- (1) EX. CONCRETE PAN & JOIST FLOOR SYSTEM 14" 3" THICK SLAB & 1'-1" OVERALL DEPTH @ JOISTS - VERIFY.
- (2) NEW STEEL COLUMNS FOR SUPPORT OF PRECAST STADIA SEATING AND STEEL RAKER BEAMS ABOVE. S.D. 6/5402 & 7/5402.
- (3) 8" CMU WALL FOR SUPPORT OF PRECAST STADIA & STAIRS. COORDINATE T.O. WALL 14" PC SUPPLIER & ARCH. S.D. 5/5404.



SECOND FLOOR FRAMING PLAN - AREA D
1/8" = 1'-0"

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(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

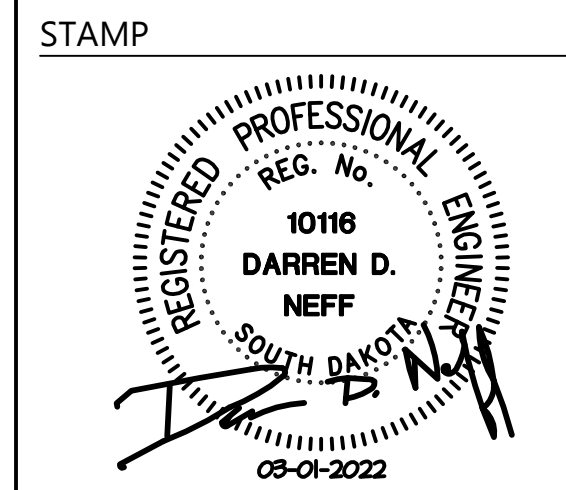
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STATE SOUTH DAKOTA

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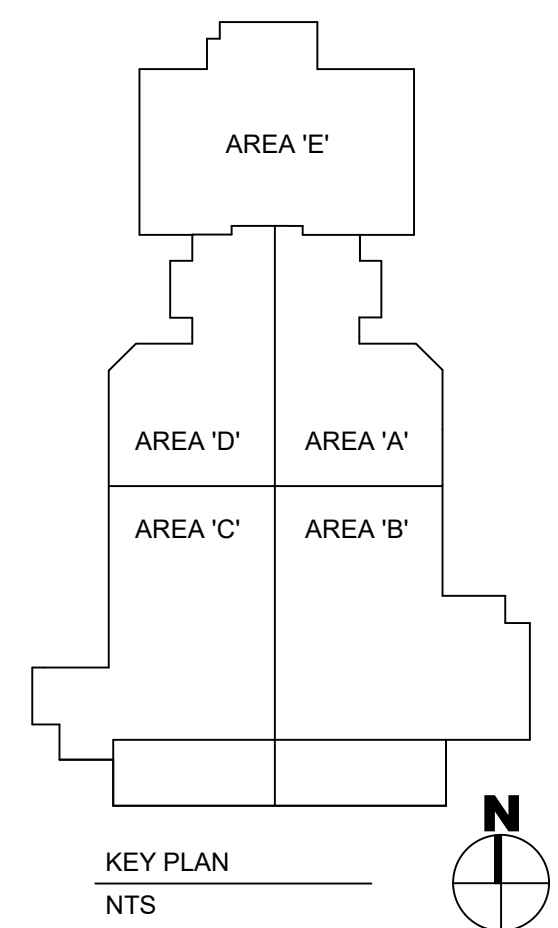


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SECOND FLOOR FRAMING PLAN - AREA D

S201D



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PROJECT DESCRIPTION
FB&T ARENA AND SJM
ADDITIONS AND
RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

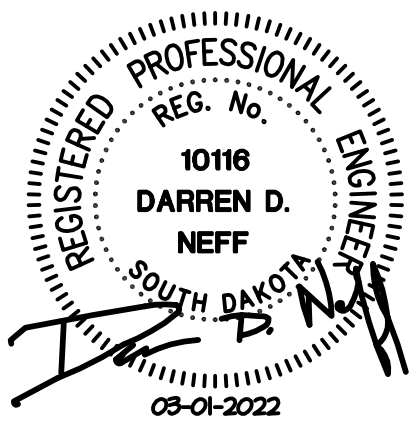
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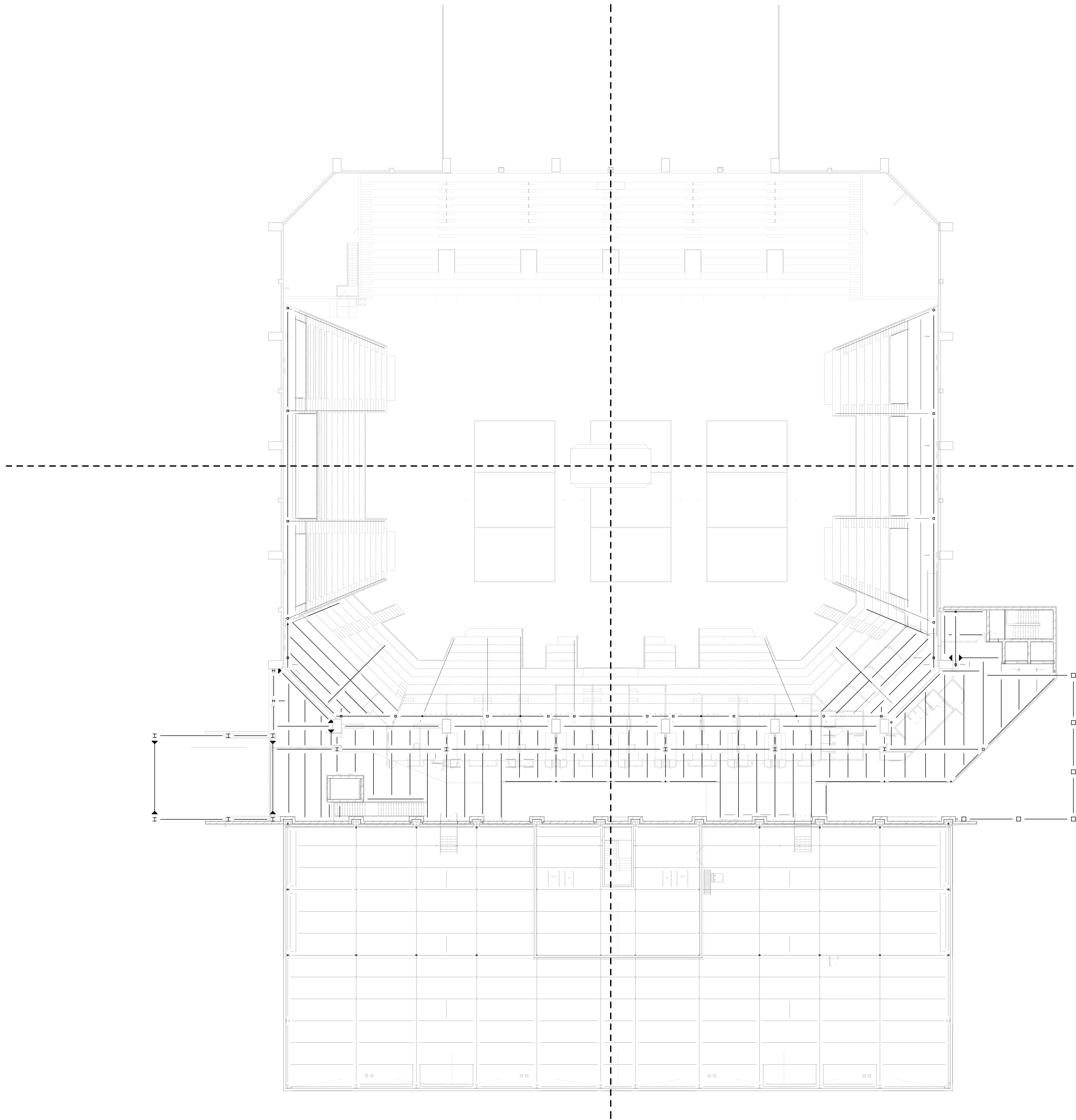
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DRAWING TITLE
MEZZANINE FRAMING
PLAN - OVERALL



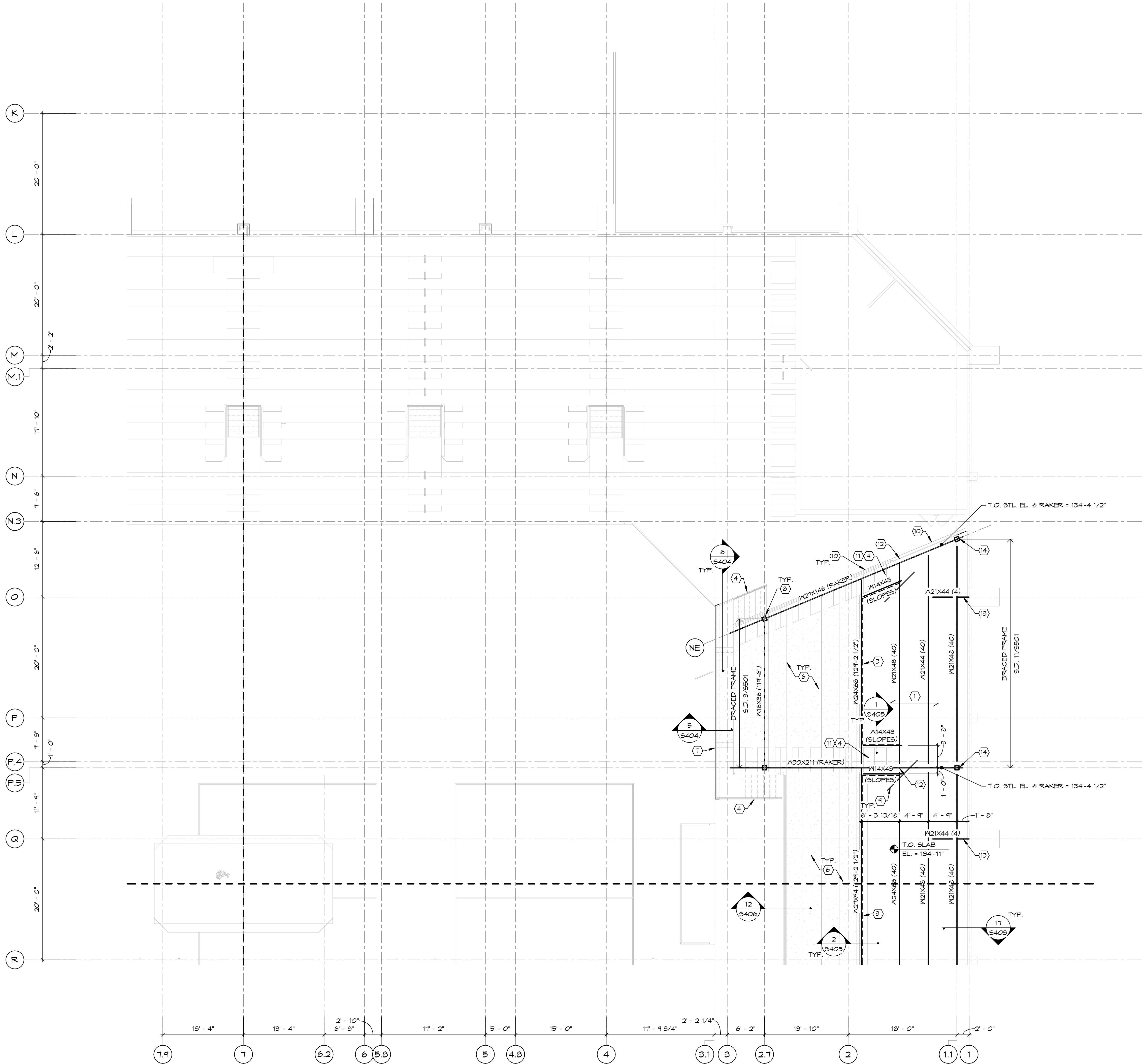
MEZZANINE FRAMING PLAN - OVERALL
1/16" = 1'-0"

SHEET NOTES:

1. VERIFY ALL DIMENSIONS V/ ARCHITECTURAL DRAWINGS WHICH SHALL BE GOVERNING.
2. VERIFY T.O. STL. ELEVATIONS V/ PRECAST STADIA SUPPLIER.
3. SEE SHEET 0001 FOR GENERAL STRUCTURAL NOTES.
4. ► DENOTES MOMENT CONNECTION.
5. S.D. 7/5404 FOR TYPICAL STL. RAKER EXTENSION @ LOW END WHEN NEAR EXISTING SECOND FLOOR CONC. FLOOR STRUCTURE.
6. S.D. 3/5405, 4/5405, 5/5405, & 6/5405 FOR TYPICAL STADIA AND STADIA CONNECTION DETAILS.

KEY NOTES:

1. 4 1/2" THICK NORMAL WEIGHT CONCRETE OVER 3"x18" G.A. VULCRAFT VLI COMPOSITE (6 1/2" TOTAL THICKNESS). REINFORCE SLAB V/ #5 @ 1'-0" O.C. EA. W/AY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING V/ 5/8"x10" PUDDLE WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF PUDDLE WELD). FASTEN SIDELAPS V/ 3/8"x1 1/2" ARC SEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3)-SPAN (MIN.) CONDITION WHERE POSSIBLE.
2. NOT USED.
3. PRECAST CONCRETE WALL PANEL - BY PRECAST SUPPLIER.
4. PRECAST CONCRETE STAIRS - BY PRECAST SUPPLIER.
5. NOT USED.
6. PRECAST STADIA SEATING - BY PRECAST SUPPLIER. SEE ARCH. FOR LAYOUT/DIMENSIONS.
7. 8" CMU WALL BELOW FOR SUPPORT OF PRECAST STADIA & STAIRS. S.D. 5/5404.
8. S.D. 8/5404 FOR TYP. RAKER BEAM TO COLUMN CONNECTION.
9. PROVIDE (3)-#3 x T-O' @ 6" O.C. @ RE-ENTRANT CORNERS. (TYP.)
10. 6" PC SPANDREL PANEL (TYP. @ EDGE OF STADIA - SEE ARCH.) S.D. 10/5404.
11. S.D. 9/5404 FOR CONNECTION OF PC STAIR TO STL. BEAM.
12. S.D. 11/5404 FOR SUPPORT/CONNECTION OF BEAM @ RAKER.
13. S.D. 12/5404 FOR ANGLE BRACE TO EX. CONC. COLUMN.
14. RUN RAKER BEAM OVER TOP OF HSS COLUMN AND FRAME M21 BEAMS INTO SIDE OF RAKER. SIM. TO DETAIL 8/5404.



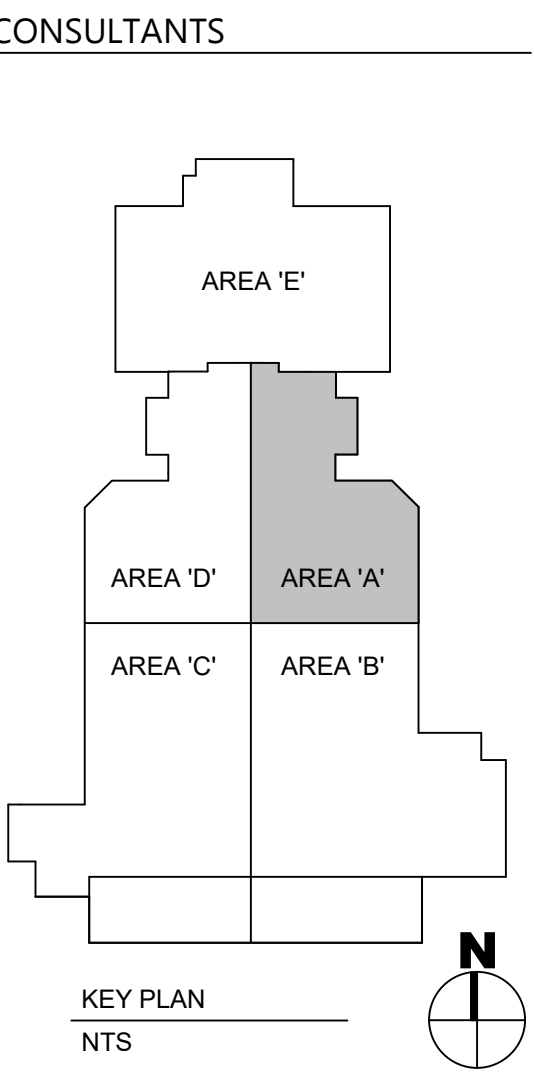
MEZZANINE FRAMING PLAN - AREA A
1/8" = 1'-0"



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(OSE# R0319-23X/FBT)
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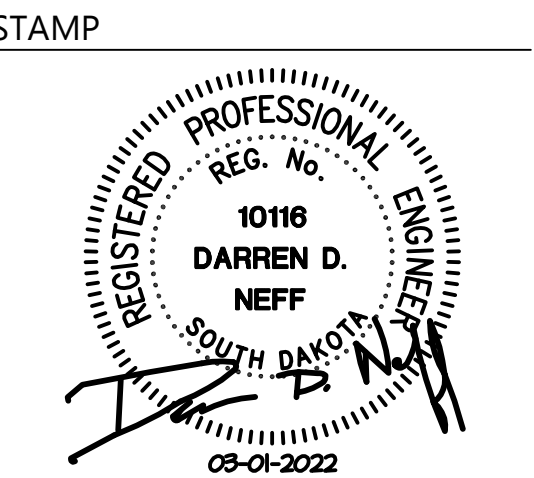
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STATE SOUTH DAKOTA

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MEZZANINE FRAMING PLAN - AREA A

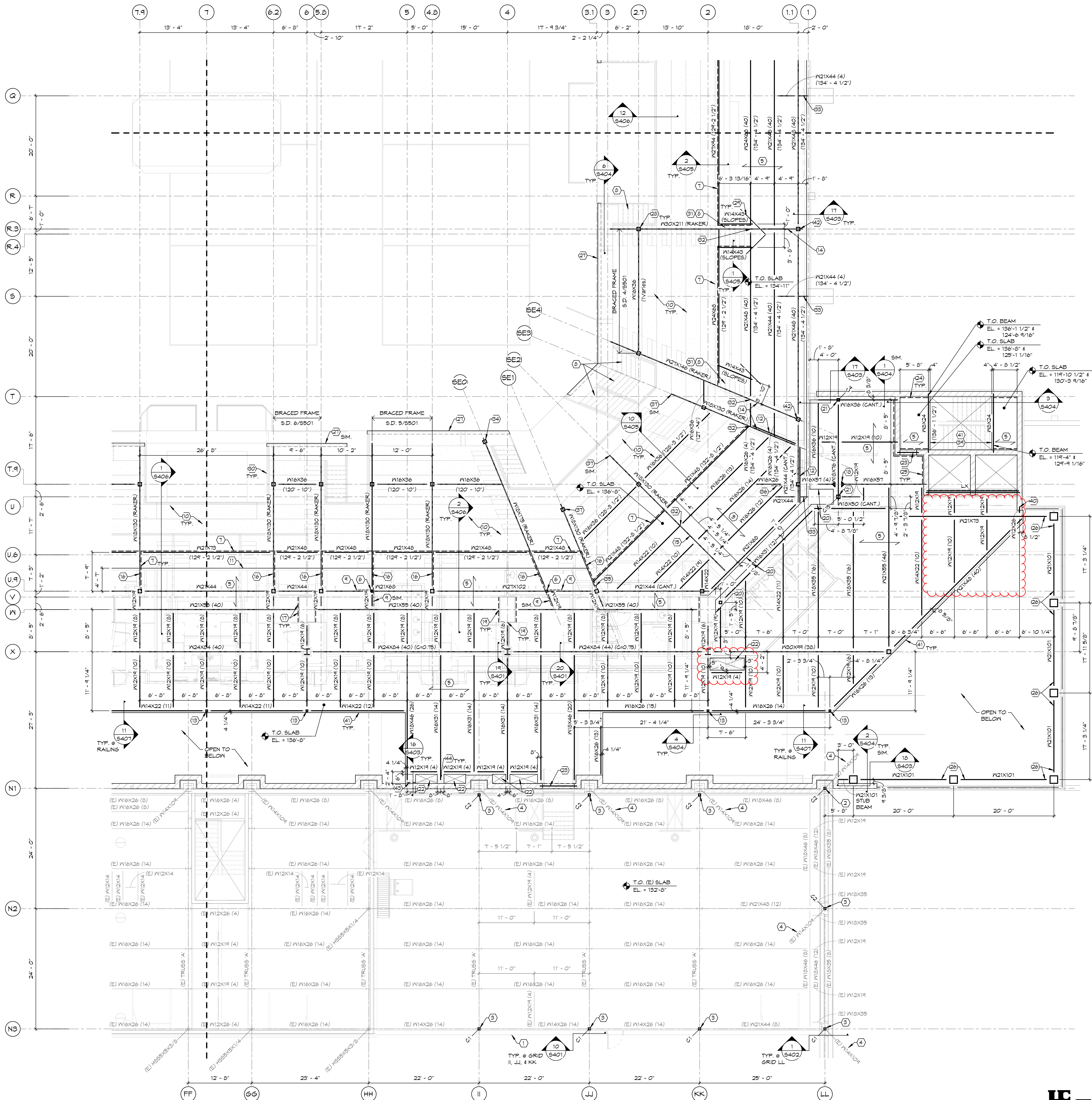
S202A

SHEET NOTES:

1. VERIFY ALL DIMENSIONS IN ARCHITECTURAL DRAWINGS WHICH SHALL BE GOVERNING.
2. VERIFY T.O. STL. ELEVATIONS IN PRECAST STADIA SUPPLIER.
3. SEE SHEET 5001 FOR GENERAL STRUCTURAL NOTES.
4. ► DENOTES MOMENT CONNECTION.
5. S.D. 1/5404 FOR TYPICAL STL. RAKER EXTENSION @ LOW END WHEN NEAR EXISTING SECOND FLOOR CONC. FLOOR STRUCTURE.
6. S.D. 3/5405, 4/5405, 5/5405, 6/5405 FOR TYPICAL STADIA AND STADIA CONNECTION DETAILS.

KEY NOTES:

- (1) EXISTING 8' x 8' CONT. CONCRETE CURB BELOW STEEL STUD WALL.
- (2) COLUMN UP TO ABOVE. COLUMN BEARS @ ELEV. 132'-2 1/2" (T.O. EXISTING COLUMN).
- (3) COLUMN UP TO ABOVE. COLUMN BEARS @ ELEV. 132'-5" (T.O. EXISTING COLUMN/STUB COLUMN).
- (4) EXISTING COLUMN BELOW.
- (5) 4 1/2" THICK NORMAL WEIGHT CONCRETE OVER 2" x 10 GA. GALVAFT VLI COMPOSITE DECK (6 1/2" TOTAL THICKNESS). REINFORCE SLAB IN #3 @ 1'-0" O.C. EA. MAY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING IN 5/8" RUDDE WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF RUDDE WELD). FASTEN SIDELAPS IN 3/8" x 1 1/2" ARC SEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3)-SPAN CONDITION (MIN.) WHERE POSSIBLE.
- (6) HSS 4x4x3/8" HANGER DOWN TO BEAM BELOW. S.D. 15/5404.
- (7) PRECAST CONCRETE WALL PANEL - BY PRECAST SUPPLIER.
- (8) PRECAST CONCRETE STAIRS - BY PRECAST SUPPLIER.
- (9) L2 1/2x2 1/2x1/4" ANGLE BRACE. S.D. 14/5404 (15/5404 @ SIM.).
- (10) PRECAST STADIA SEATING - BY PRECAST SUPPLIER. SEE ARCH. FOR LAYOUT/DIMENSIONS.
- (11) EDGE OF COMPOSITE SLAB.
- (12) K21x62 WELDED TO TOP OF BEAM BELOW. S.D. 11/5405.
- (13) HSS 4x4x1/4" HANGER UP TO BEAM ABOVE.
- (14) T.O. STL. EL. @ RAKER = 134'-4 1/2".
- (15) T.O. STL. EL. @ RAKER = 136'-1 1/2".
- (16) T.O. STL. EL. @ RAKER = 129'-2 1/2".
- (17) L4x4x1/4" CONT. ANGLE. FASTEN TO EX. CONC. COLUMN IN 1/2"x4" SIMPSON TITEN HD SCREW ANCHORS @ 8" O.C.
- (18) MOMENT CONNECTION. S.D. 11/5403.
- (19) S.D. 11/5402 FOR CONNECTION OF BEAM TO EX. CONC. COLUMN.
- (20) S.D. 12/5403 FOR CONT. BENT PLATE @ SLAB EDGE @ THIS AREA.
- (21) S.D. 15/5403 FOR REQUIREMENTS @ STACKED COLUMNS.
- (22) MECH. PENETRATION THRU FLOOR. S.D. 22/5401 FOR SLAB EDGE DETAIL @ TYP. MECH. PENETRATIONS @ NEW COMPOSITE FLOOR. VERIFY SIZE IN MECH.
- (23) PROVIDE BENT BAR DOWLS TO SLAB SIM. TO DETAIL 5/5403.
- (24) PROVIDE SAME L4x4 CONT. AS SHOWN IN DETAIL 3/5404 @ SIDES OF STAIR LANDINGS.
- (25) S.D. 12/5403 FOR CONT. ANGLE.
- (26) S.D. 10/5403 FOR ADDITIONAL ANGLES REQUIRED @ BEAM-COLUMN CONNECTION.
- (27) 8" CMU WALL BELOW FOR SUPPORT OF PRECAST STADIA & STAIRS. S.D. 5/5404.
- (28) S.D. 8/5404 FOR TYP. RAKER BEAM TO COLUMN CONNECTION.
- (29) PROVIDE (3)-#3 x 7'-0" @ 6" O.C. @ RE-ENTRANT CORNERS. (TYP.)
- (30) 6" PC SPANDREL PANEL (TYP. @ ENDS OF STADIA - SEE ARCH.) S.D. 10/5404.
- (31) S.D. 9/5404 FOR CONNECTION OF PC STAIR TO STL. BEAM.
- (32) S.D. 11/5404 FOR SUPPORT/CONNECTION OF BEAM @ RAKER.
- (33) S.D. 12/5404 FOR ANGLE BRACE TO EX. CONC. COLUMN.
- (34) S.D. 8/5405 FOR BEAM-COLUMN CONNECTION.
- (35) PROVIDE EMBED. PLATE @ PC WALL FOR SUPPORT OF STL. BEAM. S.D. 9/5405.
- (36) ANGLE BRACE. S.D. 12/5405.
- (37) S.D. 15/5406 FOR CONNECTION DETAIL.
- (38) S.D. 4/5401 FOR CONNECTION OF STL. BEAM TO CMU WALL AT THIS LOCATION.
- (39) S.D. 10/5401 FOR TYP. SLAB EDGE @ STAIRS.
- (40) S.D. 4/5401 FOR CONNECTION OF STL. BEAM TO CMU WALL @ THIS LOCATION.
- (41) DENOTES SLAB EDGE.
- (42) RUN RAKER BEAM OVER TOP OF HSS COLUMN AND FRAME K21 BEAMS INTO SIDE OF RAKER SIM. TO DETAIL 5/5404.
- (43) PROVIDE 3/8" THICK CLOSURE PLATE ON BENT PLATE FOUR STOP @ WALL. FASTEN TO WALL IN 1/2"-5/8" DIA. SIMPSON TITEN HD SCREW ANCHORS. PROVIDE 8" GAGE DIMENSION @ ANCHORS.
- (44) PROVIDE U-SHAPED BENT PLATE FOUR STOP @ AREA BETWEEN MECH. OPENINGS.



MEZZANINE FRAMING PLAN - AREA B

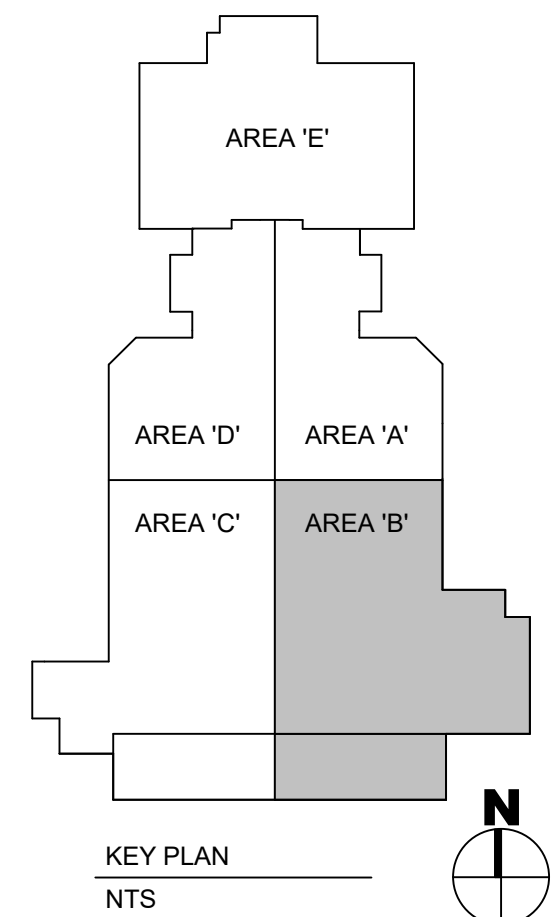
1/8" = 1'-0"

T.O. STL. EL. = 136'-1 1/2" (U.O.N.)



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MEZZANINE FRAMING
PLAN - AREA B



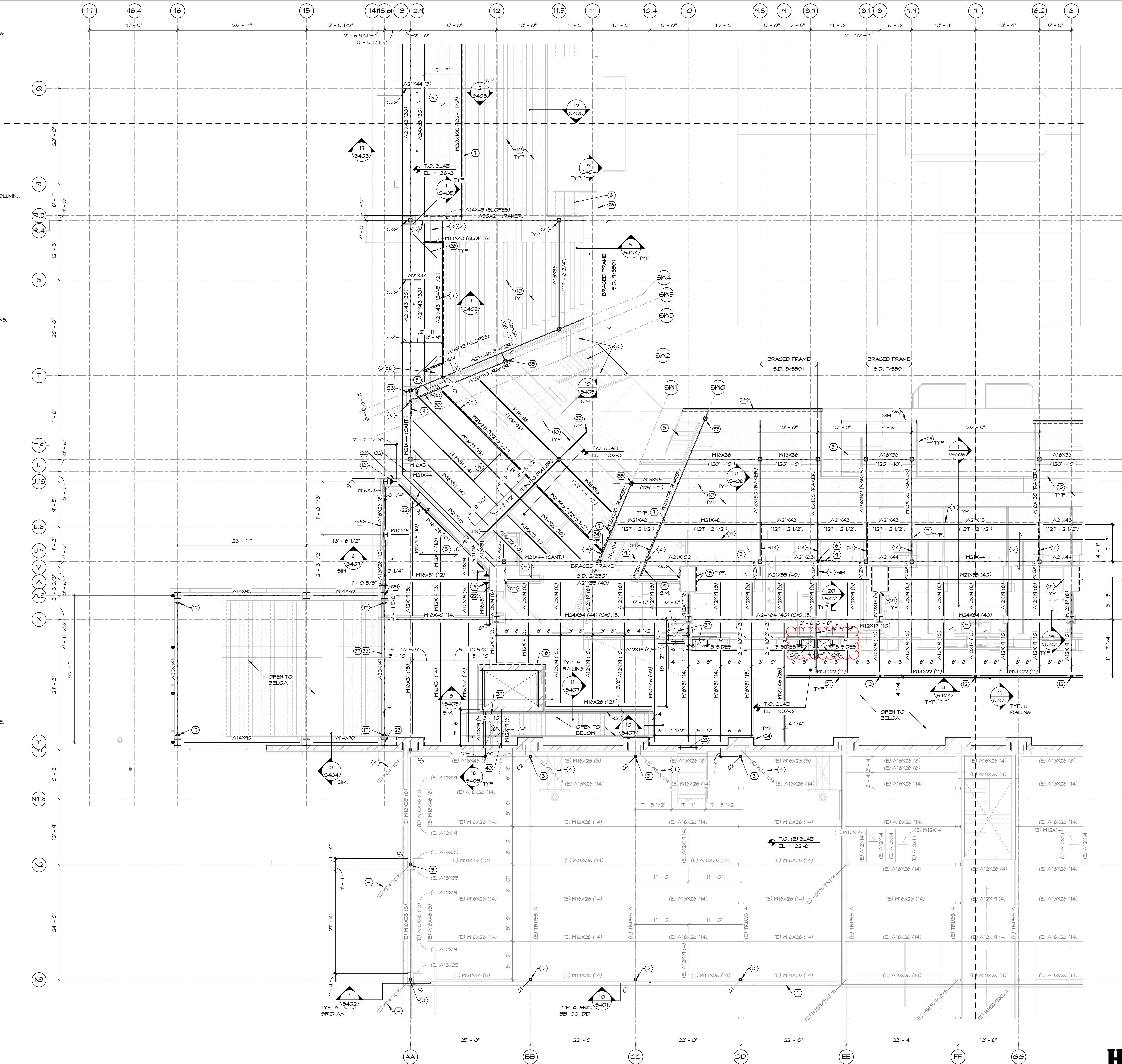
S202B

SHEET NOTES:

1. VERIFY ALL DIMENSIONS IN ARCHITECTURAL DRAWINGS WHICH SHALL BE GOVERNING.
2. VERIFY T.O. STL. ELEVATIONS IN/ PRECAST STADIA SUPPLIER.
3. SEE SHEET 5001 FOR GENERAL STRUCTURAL NOTES.
4. ► DENOTES MOMENT CONNECTION.
5. S.D. 7/5404 FOR TYPICAL STL. RAKER EXTENSION @ LOW END WHEN NEAR EXISTING SECOND FLOOR CONC. FLOOR STRUCTURE.
6. S.D. 3/5405, 4/5405, 5/5405, & 6/5405 FOR TYPICAL STADIA AND STADIA CONNECTION DETAILS.

KEY NOTES:

- (1) EXISTING 8' x 8' CONT. CONCRETE CURB BELOW STEEL STUD WALL.
- (2) COLUMN UP TO ABOVE COLUMN BEARS @ ELEV. 132'-2 1/2" (T.O. EXISTING COLUMN).
- (3) COLUMN UP TO ABOVE COLUMN BEARS @ ELEV. 132'-5" (T.O. EXISTING COLUMN/STUB COLUMN).
- (4) EXISTING COLUMN BELOW.
- (5) 4 1/2" THICK NORMAL WEIGHT CONCRETE OVER 2" x 10 GA. VULGRAFT VLI COMPOSITE DECK (6 1/2" TOTAL THICKNESS). REINFORCE SLAB IN/ #3 @ 1'-0" O.C. EA. MAY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING IN/ 5/8" RUDDE WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF RUDDE WELD). FASTEN SIDELAPS IN/ 3/8"x1 1/2" ARC SEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3) SPAN CONDITION (MIN.) WHERE POSSIBLE.
- (6) HSS 4x4x3/8" HANGER DOWN TO BEAM BELOW. S.D. 13/5404.
- (7) PRECAST CONCRETE WALL PANEL - BY PRECAST SUPPLIER.
- (8) PRECAST CONCRETE STAIRS - BY PRECAST SUPPLIER.
- (9) L2 1/2x2 1/2x1/4" ANGLE BRACE. S.D. 14/5404 (15/5404 @ SIM.).
- (10) PRECAST STADIA SEATING - BY PRECAST SUPPLIER. SEE ARCH. FOR LAYOUT/DIMENSIONS.
- (11) EDGE OF COMPOSITE SLAB.
- (12) HSS 4x4x1/4" HANGER UP TO BEAM ABOVE.
- (13) T.O. STL. EL. @ RAKER = 136'-1 1/2".
- (14) T.O. STL. EL. @ RAKER = 129'-2 1/2".
- (15) L4x4x1/4" CONT. ANGLE. FASTEN TO EX. CONC. COLUMN IN/ 1/2"x4" SIMPSON TITEN HD SCREW ANCHORS @ 8" O.C.
- (16) L4x4x1/4" ANGLE. S.D. 8/5405.
- (17) MOMENT CONNECTION. S.D. 9/5403.
- (18) MOMENT CONNECTION. S.D. 10/5403.
- (19) MOMENT CONNECTION. S.D. 11/5403.
- (20) S.D. 12/5402 FOR CONNECTION OF BEAM TO EX. CONCRETE COLUMN.
- (21) S.D. 11/5402 FOR CONNECTION OF BEAM TO EX. CONCRETE COLUMN.
- (22) S.D. 12/5403 FOR CONT. BENT PLATE @ SLAB EDGE @ THIS AREA.
- (23) PROVIDE L4x4x1/4" ANGLE WELDED TO COLUMN FOR DECK SUPPORT.
- (24) L4x4x1/4" x 1"-T ANGLE IN/ (2)-5/8"x5" SIMPSON TITEN HD SCREW ANCHORS. PROVIDE 8" GAGE DIM. @ ANCHORS.
- (25) PROVIDE BENT BAR DMLS TO SLAB SIM. TO DETAIL 3/5403.
- (26) 8" CMU WALL BELOW FOR SUPPORT OF PRECAST STADIA & STAIRS. S.D. 5/5404.
- (27) S.D. 6/5404 FOR TYP. RAKER BEAM TO COLUMN CONNECTION.
- (28) PROVIDE (3)-#3 x T-O" @ 6" O.C. @ RE-ENTRANT CORNERS. (TYP.)
- (29) 6" PC SPANDREL PANEL (TYP. @ EDGE OF STADIA - SEE ARCH.) S.D. 10/5404.
- (30) T.O. STL. EL. @ RAKER = 132'-5 1/2".
- (31) S.D. 9/5404 FOR CONNECTION OF PC STAIR TO STL. BEAM.
- (32) S.D. 12/5404 FOR ANGLE BRACE TO EX. CONC. COLUMN.
- (33) S.D. 8/5405 FOR BEAM-COLUMN CONNECTION.
- (34) PROVIDE EMBED. PLATE @ PC WALL FOR SUPPORT OF STL. BEAM. S.D. 9/5405.
- (35) S.D. 13/5406 FOR CONNECTION DETAIL.
- (36) DENOTES SLAB EDGE.
- (37) PROVIDE SAME SLAB EDGE DETAIL AS SHOWN IN DETAIL 10/5407.
- (38) RUN RAKER BEAM OVER TOP OF HSS COLUMN AND FRAME M21 BEAMS INTO SIDE OF RAKER SIM. TO DETAIL 5/5404.
- (39) MECH. PENETRATION THRU FLOOR. S.D. 22/5401 FOR SLAB EDGE DETAIL @ TYP. MECH. PENETRATIONS @ NEW COMPOSITE FLOOR. PROVIDE M12x19 BEAMS AROUND MECH. OPENINGS WHERE NO BEAM SIZE IS DENOTED. VERIFY SIZE OF OPENING IN/ MECH.
- (40) PROVIDE U-SHAPED BENT PLATE FOUR STOP @ AREA BETWEEN OPENINGS & FLOOR EDGE.



MEZZANINE FRAMING PLAN - AREA C

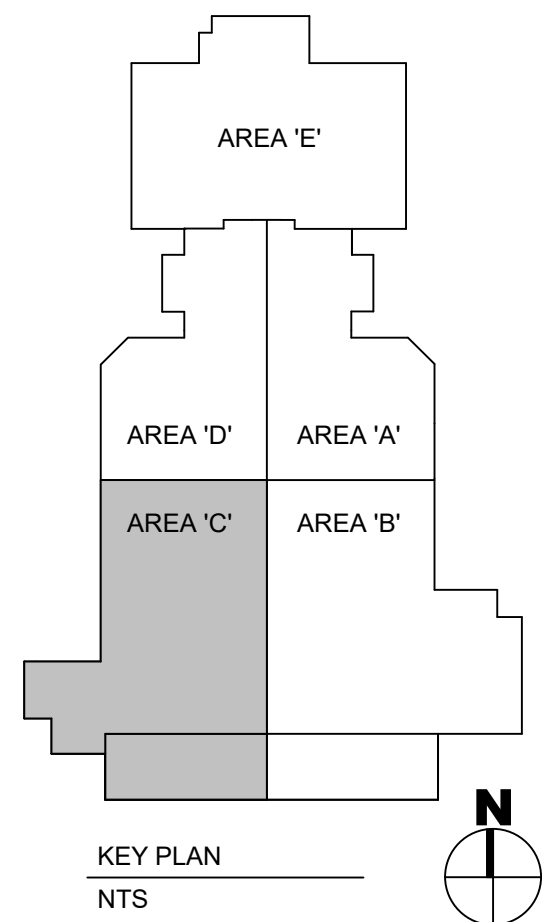
1/8" = 1'-0"

T.O. STL. EL. = 136'-1 1/2" (W.O.N.)



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PROJECT DESCRIPTION
FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

ISSUE DATES

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MEZZANINE FRAMING PLAN - AREA C



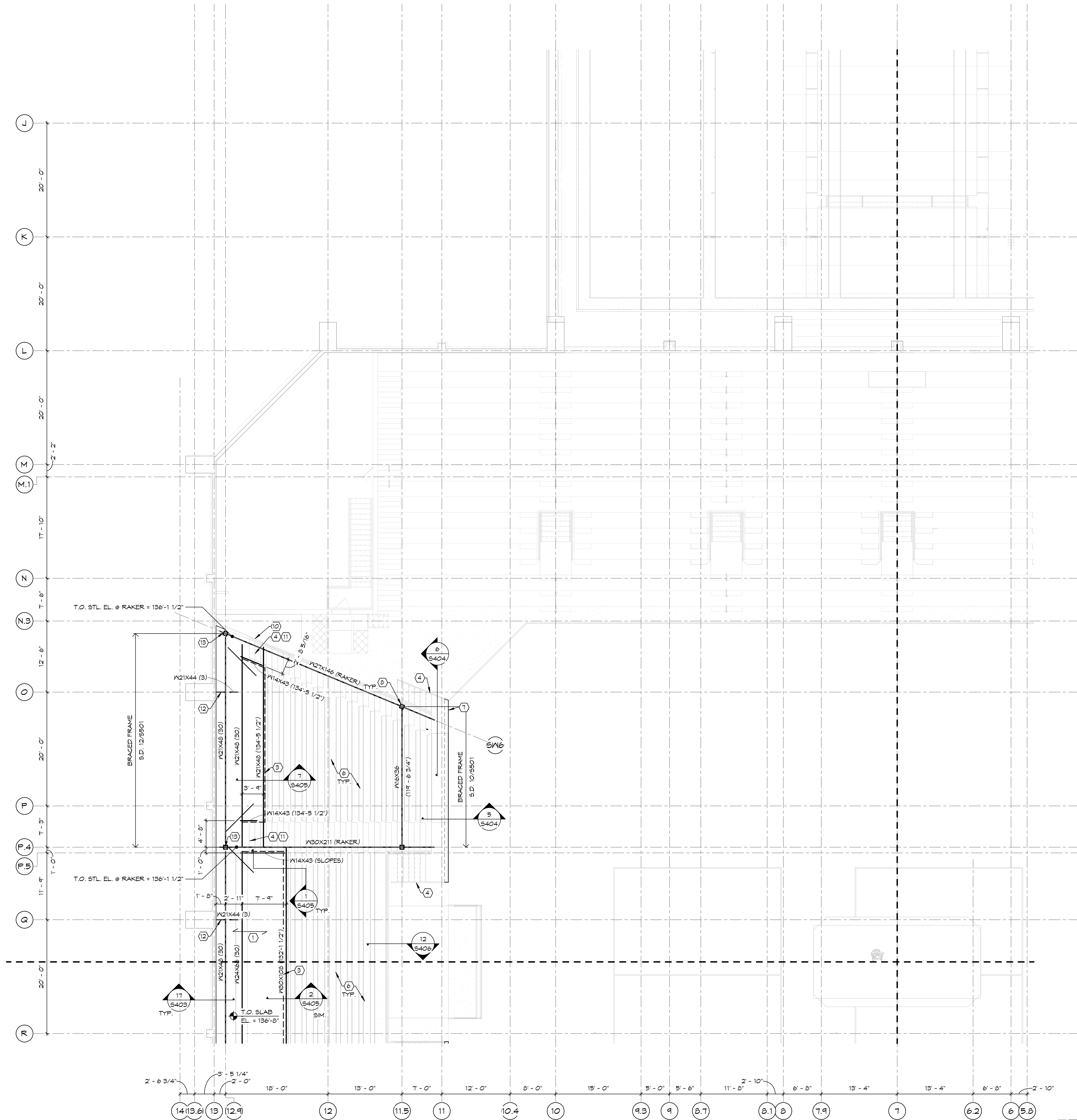
S202C

SHEET NOTES:

1. VERIFY ALL DIMENSIONS W/ ARCHITECTURAL DRAWINGS WHICH SHALL BE GOVERNING.
2. VERIFY T.O. STL. ELEVATIONS W/ PRECAST STADIA SUPPLIER.
3. SEE SHEET 5001 FOR GENERAL STRUCTURAL NOTES.
4. ► DENOTES MOMENT CONNECTION.
5. S.D. 7/5404 FOR TYPICAL STL. RAKER EXTENSION @ LOW END WHEN NEAR EXISTING SECOND FLOOR CONC. FLOOR STRUCTURE.
6. S.D. 3/5405, 4/5405, 5/5405, & 6/5405 FOR TYPICAL STADIA AND STADIA CONNECTION DETAILS.

KEY NOTES:

1. 4 1/2" THICK NORMAL WEIGHT CONCRETE OVER 3"x15" GA. VULCRAFT VLI COMPOSITE (5 1/2" TOTAL THICKNESS). REINFORCE SLAB W/ #3 @ 1'-0" O.C. EA. WAY CENTERED IN CONCRETE ABOVE METAL DECK. FASTEN DECK TO FLOOR FRAMING W/ 5/8"Ø PUDDLE WELDS ON A 36/4 PATTERN (HEADED STUD CAN BE USED IN PLACE OF PUDDLE WELD). FASTEN SIDELAPS W/ 3/8"x1 1/2" ARC SEAM WELDS @ 2'-6" O.C. (MAX.) @ EA. SPAN. PROVIDE (3)-SPAN (MIN.) CONDITION WHERE POSSIBLE.
2. NOT USED.
3. PRECAST CONCRETE WALL PANEL - BY PRECAST SUPPLIER.
4. PRECAST CONCRETE STAIRS - BY PRECAST SUPPLIER.
5. NOT USED.
6. PRECAST STADIA SEATING - BY PRECAST SUPPLIER. SEE ARCH. FOR LAYOUT/DIMENSIONS.
7. 8" CMU WALL BELOW FOR SUPPORT OF PRECAST STADIA & STAIRS. S.D. 5/5404.
8. S.D. 8/5404 FOR TYP. RAKER BEAM TO COLUMN CONNECTION.
9. PROVIDE (3)-#3 x 7'-0" @ 6" O.C. @ RE-ENTRANT CORNERS. (TYP.)
10. 6" PC SPANDREL PANEL (TYP. @ EDGE OF STADIA - SEE ARCH.) S.D. 10/5404.
11. S.D. 9/5404 FOR CONNECTION OF PC STAIR TO STL. BEAM.
12. S.D. 12/5404 FOR ANGLE BRACE TO EX. CONC. COLUMN.
13. RUN RAKER BEAM OVER TOP OF HS8 COLUMN AND FRAME W21 BEAMS INTO SIDE OF RAKER. SM. TO DETAIL 8/5404.

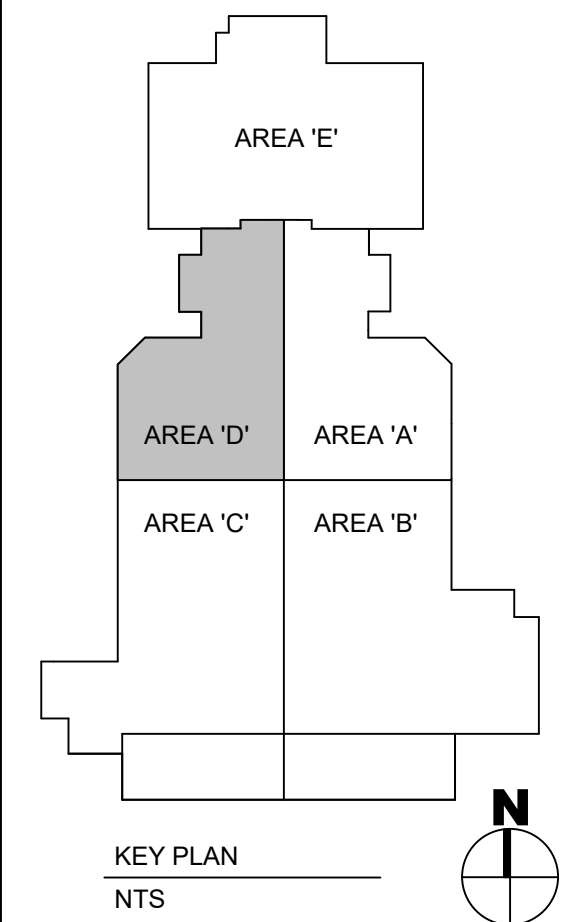


MEZZANINE FRAMING PLAN - AREA D
1/8" = 1'-0"



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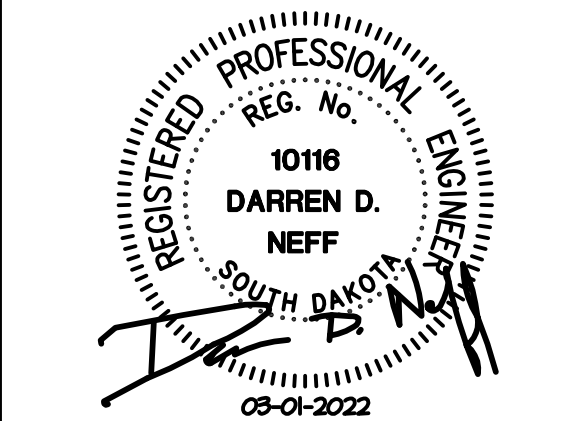
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MEZZANINE FRAMING PLAN - AREA D

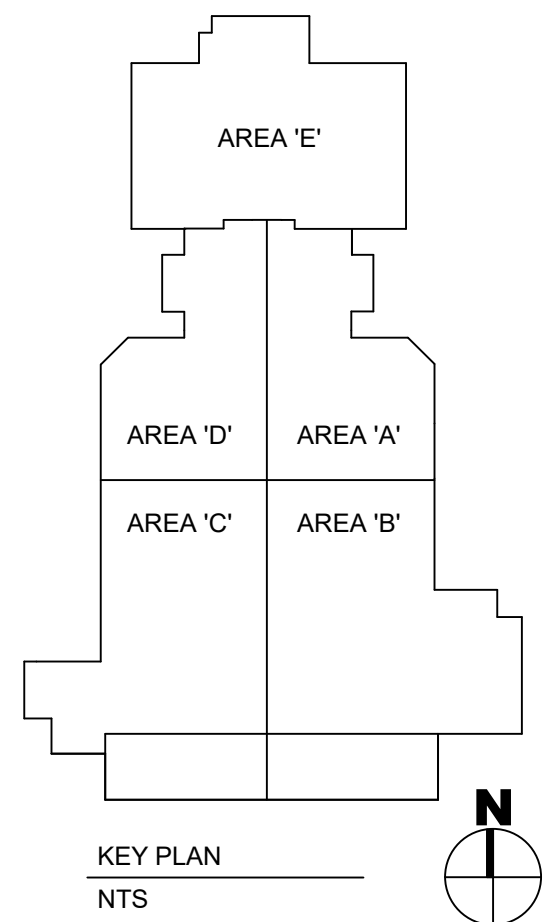


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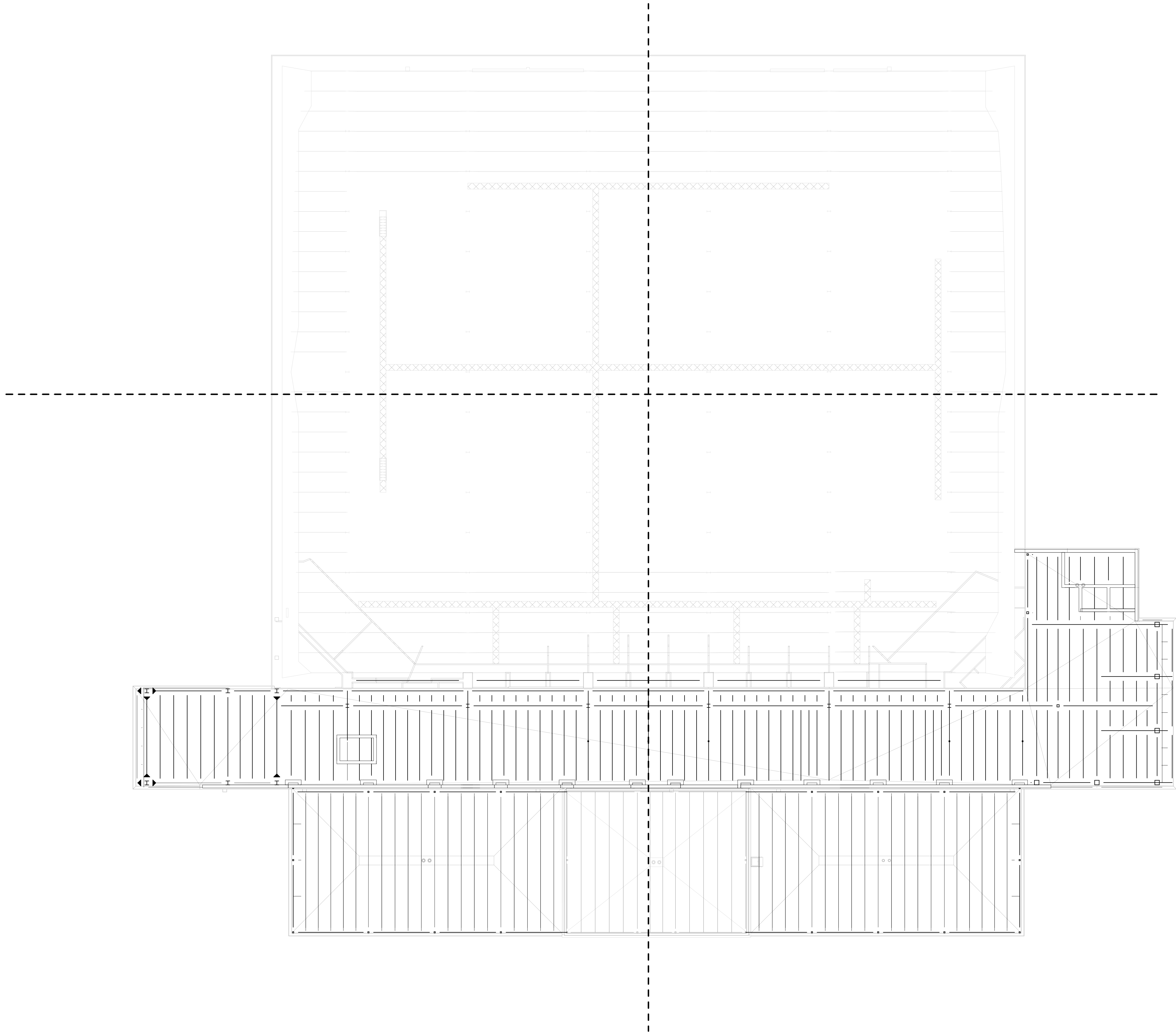
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DRAWING TITLE
HIGH ROOF FRAMING
PLAN - OVERALL

S203



HIGH ROOF FRAMING PLAN - OVERALL
1/16" = 1'-0"

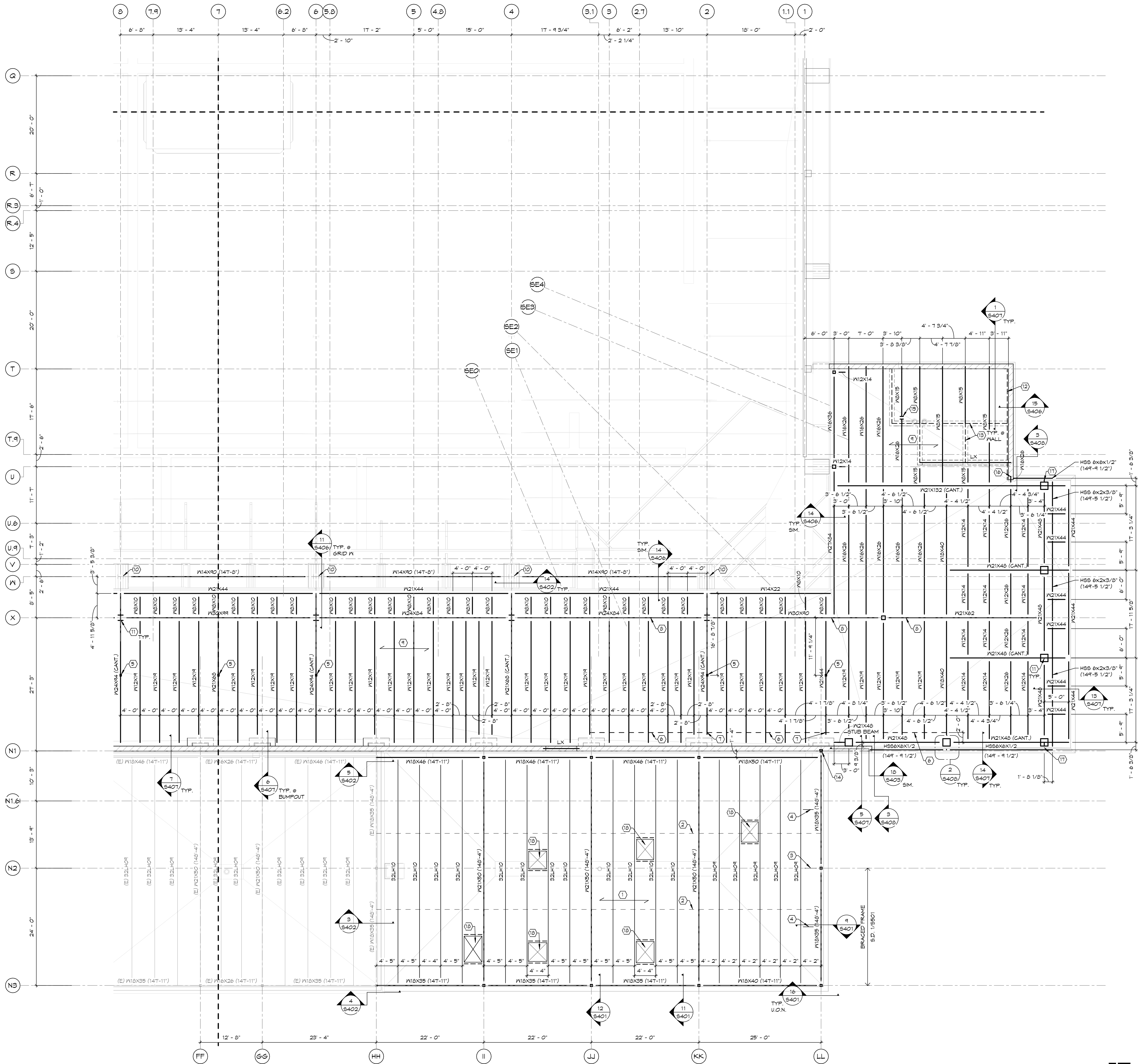


SHEET NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS.
2. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
3. S.D. 2/5401 FOR TYP. WELDED ANGLE FRAME REQUIRED @ ROOF PENETRATIONS.
4. S.D. 1/5401 FOR TYP. JOIST REINF. DETAIL @ CONCENTRATED LOADS.

KEY NOTES:

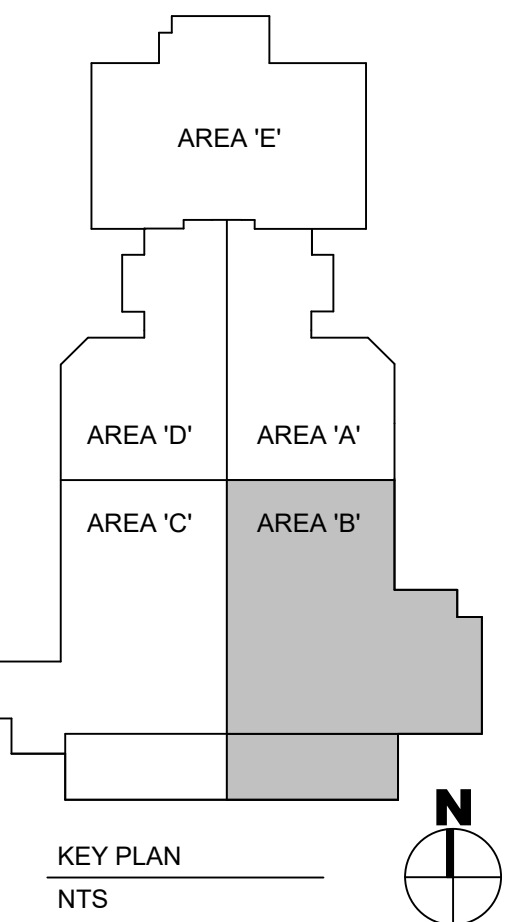
- 1 1/2" x 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK, FASTEN TO ROOF FRAMING W/ 5/8" PUDDLE WELDS ON A 36/7 PATTERN. FASTEN SIDELAPS W/ (1)-#10 TEK SCREWS PER SPAN. FASTEN TO PERIMETER FRAMING W/ 5/8" PUDDLE WELDS @ 1'-0" O.C. PROVIDE (3)-SPAN CONDITION (MIN.).
- HORIZONTAL JOIST BRIDGING. JOIST SUPPLIER SHALL AS A MINIMUM PROVIDE NUMBER OF ROWS SHOWN ON PLANS UNLESS MORE ROWS ARE REQUIRED BY DESIGN PER SJI SPECIFICATIONS.
- L3X3X1/4" ANGLE BRACE. S.D. 9/5401.
- L3X3X1/4" ANGLE BRACE @ BEAM MID-SPAN. S.D. 9/5401.
- H55 4X4X1/4" HANGER DOWN TO FLOOR BELOW. S.D. 10/5406.
- C12X30.7 CHANNEL PLACED TOE DOWN ON TOP OF STEEL BEAMS BELOW MTL. DECK. COPE FLANGES @ BEAM LOCATIONS. SPLICE CHANNEL WHERE NOTED ON PLAN. S.D. 9/5401. FASTEN MTL. DECK TO CHANNEL W/ 5/8" PUDDLE WELDS @ 6" O.C.
- CHANNEL SPLICE LOCATION.
- FASTEN MTL. DECK TO BEAM FLANGE W/ 5/8" PUDDLE WELDS @ 6" O.C.
- 1 1/2" x 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK, FASTEN TO ROOF FRAMING W/ 5/8" PUDDLE WELDS ON A 36/7 PATTERN. FASTEN SIDELAPS W/ (2)-#10 TEK SCREWS PER SPAN. FASTEN TO PERIMETER FRAMING W/ 5/8" PUDDLE WELDS @ 6" O.C. PROVIDE (3)-SPAN CONDITION (MIN.).
- END VERTICAL OF EX. STL. ROOF TRUSS. (14WF61 - VERIFY).
- S.D. 14/5403 FOR TYP. BEAM-TO-COLUMN CONNECTION @ CANTILEVER BEAMS.
- M2X18.7 CONT. CHANNEL. S.D. 15/5406.
- CONT. EMBED. PLATE @ TOP OF WALL. S.D. 16/5406.
- NOTCH CMU WALL AND STL. LINTEL BTM. PLATE AROUND STEEL COLUMN. ADJUST ANY BOND BEAM REINFORCING ACCORDINGLY SUCH THAT STL. COLUMN DOES NOT INTERRUPT REINF.
- BEAM SPLICE LOCATION. S.D. 2/5401.
- S.D. 4/5401 FOR CONNECTION OF STL. BEAM TO CMU WALL AT THIS LOCATION.
- S.D. 15/5401 FOR H55 WINDOW FRAMING SUPPORT HAUNCH @ THIS LOCATION.
- MECH. PENETRATION THRU ROOF DECK. SEE MECH. FOR EXACT SIZE & LOCATION AND S.D. 2/5401 FOR REQUIRED WELDED ANGLE FRAME.



ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"

T.O. STL. EB = 151'-4" (U.O.N.)

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(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

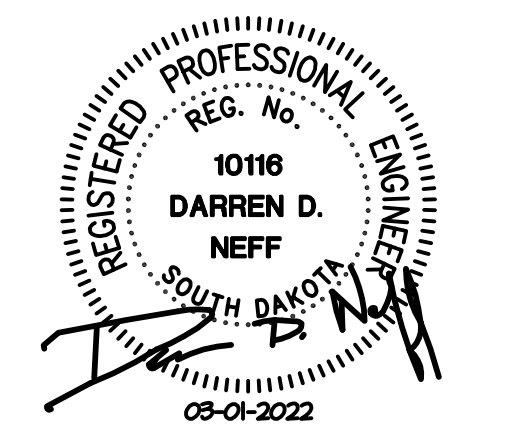
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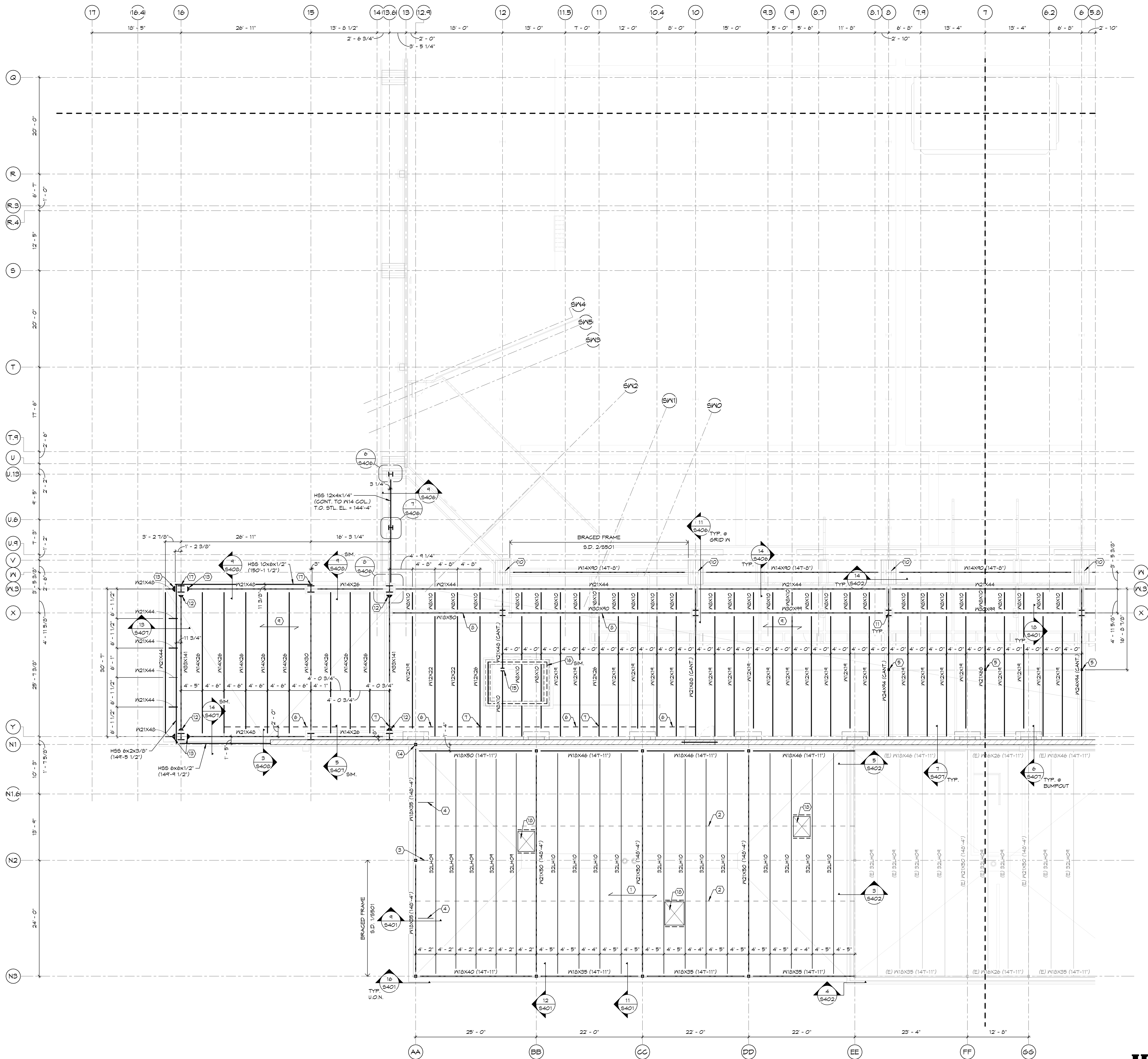
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DRAWING TITLE
HIGH ROOF FRAMING PLAN - AREA B

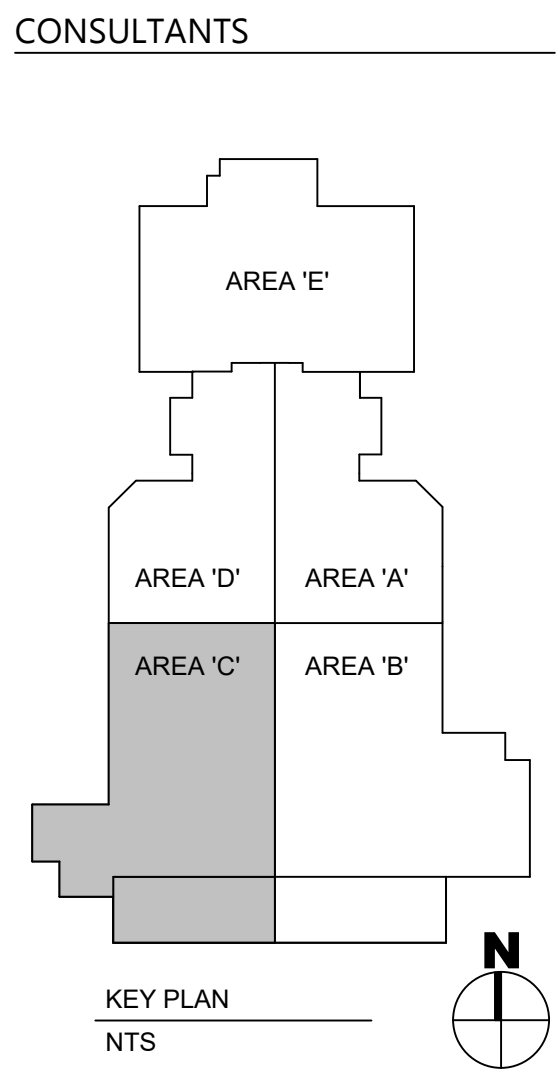
- SHEET NOTES:**
1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS.
 2. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
 3. S.D. 2/5401 FOR TYP. WELDED ANGLE FRAME REQUIRED @ ROOF PENETRATIONS.
 4. S.D. 1/5401 FOR TYP. JOIST REINF. DETAIL @ CONCENTRATED LOADS.

- KEY NOTES:**
- 1 1/2" x 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK. FASTEN TO ROOF FRAMING W/ 5/8" PUDDLE WELDS ON A 36/4 PATTERN. FASTEN SIDELAPS W/ (1)-#10 TEK SCREWS PER SPAN. FASTEN TO PERIMETER FRAMING W/ 5/8" PUDDLE WELDS @ 1'-0" O.C. PROVIDE (3)-SPAN CONDITION (MIN.).
 - HORIZONTAL JOIST BRIDGING. JOIST SUPPLIER SHALL, AS A MINIMUM, PROVIDE NUMBER OF ROWS SHOWN ON PLANS UNLESS MORE ROWS ARE REQUIRED BY DESIGN PER SJI SPECIFICATIONS.
 - L3X3X1/4" ANGLE BRACE. S.D. 9/5401.
 - L3X3X1/4" ANGLE BRACE @ BEAM MID-SPAN. S.D. 9/5401.
 - H55 4X4X1/4" HANGER DOWN TO FLOOR BELOW. S.D. 10/5406.
 - C12X30.7 CHANNEL PLACED TOE DOWN ON TOP OF STEEL BEAMS BELOW MTL. DECK. COPE FLANGES @ BEAM LOCATIONS. SPLICE CHANNEL WHERE NOTED ON PLAN. S.D. 3/5407. FASTEN METAL DECK TO CHANNEL W/ 5/8" PUDDLE WELDS @ 6" O.C.
 - CHANNEL SPLICE LOCATION.
 - FASTEN MTL. DECK TO BEAM FLANGE W/ 5/8" PUDDLE WELDS @ 6" O.C.
 - 1 1/2" x 20 GA. TYPE 'B' (WIDE RIB) METAL ROOF DECK. FASTEN TO ROOF FRAMING W/ 5/8" PUDDLE WELDS ON A 36/7 PATTERN. FASTEN SIDELAPS W/ (2)-#10 TEK SCREWS PER SPAN. FASTEN TO PERIMETER FRAMING W/ 5/8" PUDDLE WELDS @ 6" O.C. PROVIDE (3)-SPAN CONDITION (MIN.).
 - END VERTICAL OF EX. STL. ROOF TRUSS. (14WF6 - VERIFY)
 - S.D. 14/5403 FOR TYP. BEAM-TO-COLUMN CONNECTION @ CANTILEVERED BEAMS.
 - MOMENT CONNECTION. S.D. 4/5406.
 - MOMENT CONNECTION. S.D. 5/5406.
 - NOTCH CMU WALL AND STL. LINTEL BTM PLATE AROUND STEEL COLUMN. ADJUST ANY BOND BEAM REINFORCING ACCORDINGLY SUCH THAT STEEL COLUMN DOES NOT INTERRUPT REINF.
 - BEAM SPLICE LOCATION. S.D. 2/5401.
 - CONT. EMBED. PLATE @ TOP OF WALL. S.D. 16/5406.
 - S.D. 7/5408 FOR CONNECTION OF H55 WINDOW FRAMING TO COLUMN.
 - MECH. PENETRATION THRU ROOF DECK. SEE MECH. FOR EXACT SIZE & LOCATION AND S.D. 2/5401 FOR REQUIRED WELDED ANGLE FRAME.



ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"
T.O. STL. EL. = 191'-4" (V.O.N.)

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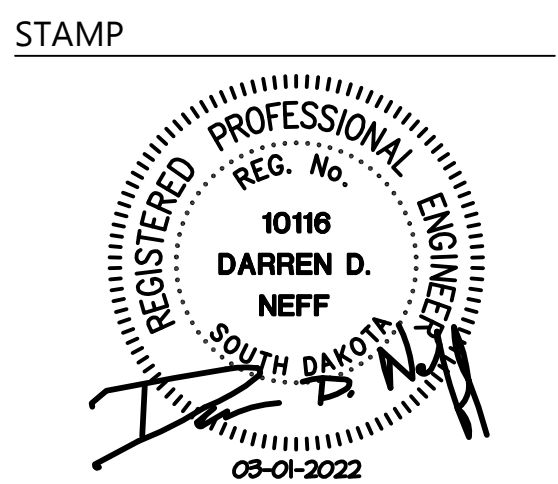
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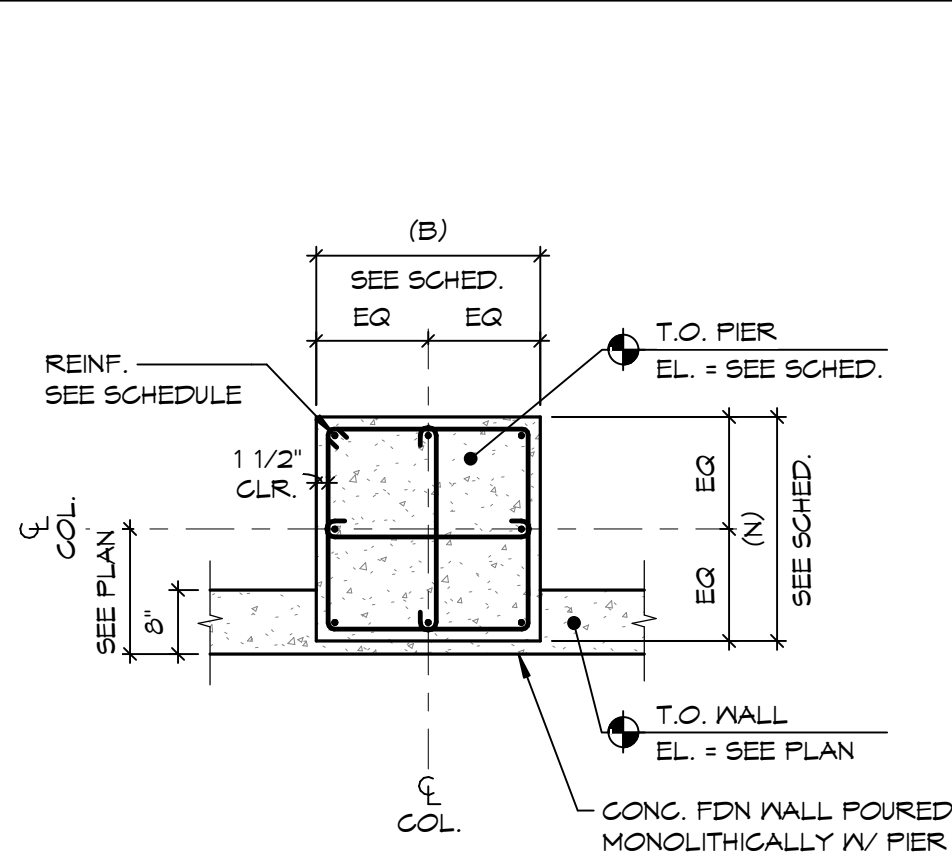
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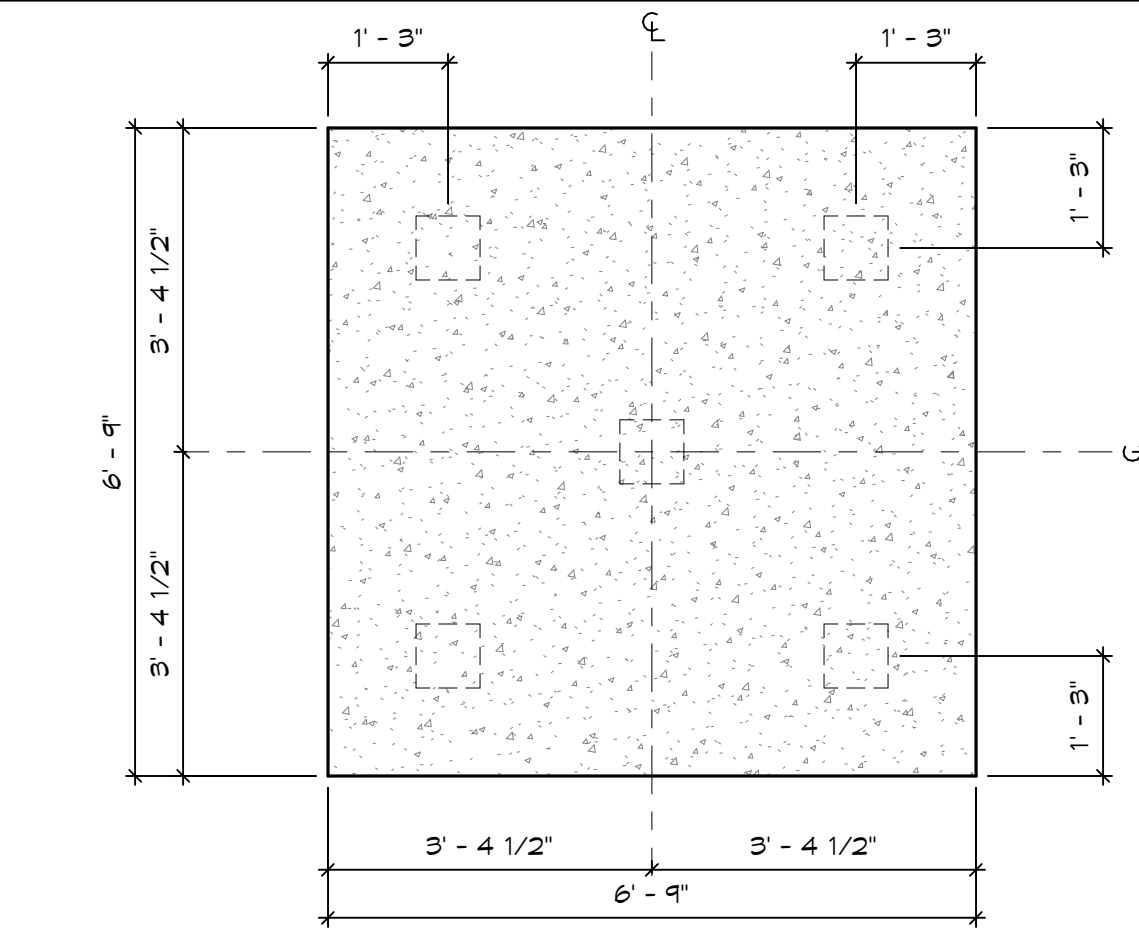
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HIGH ROOF FRAMING PLAN - AREA C



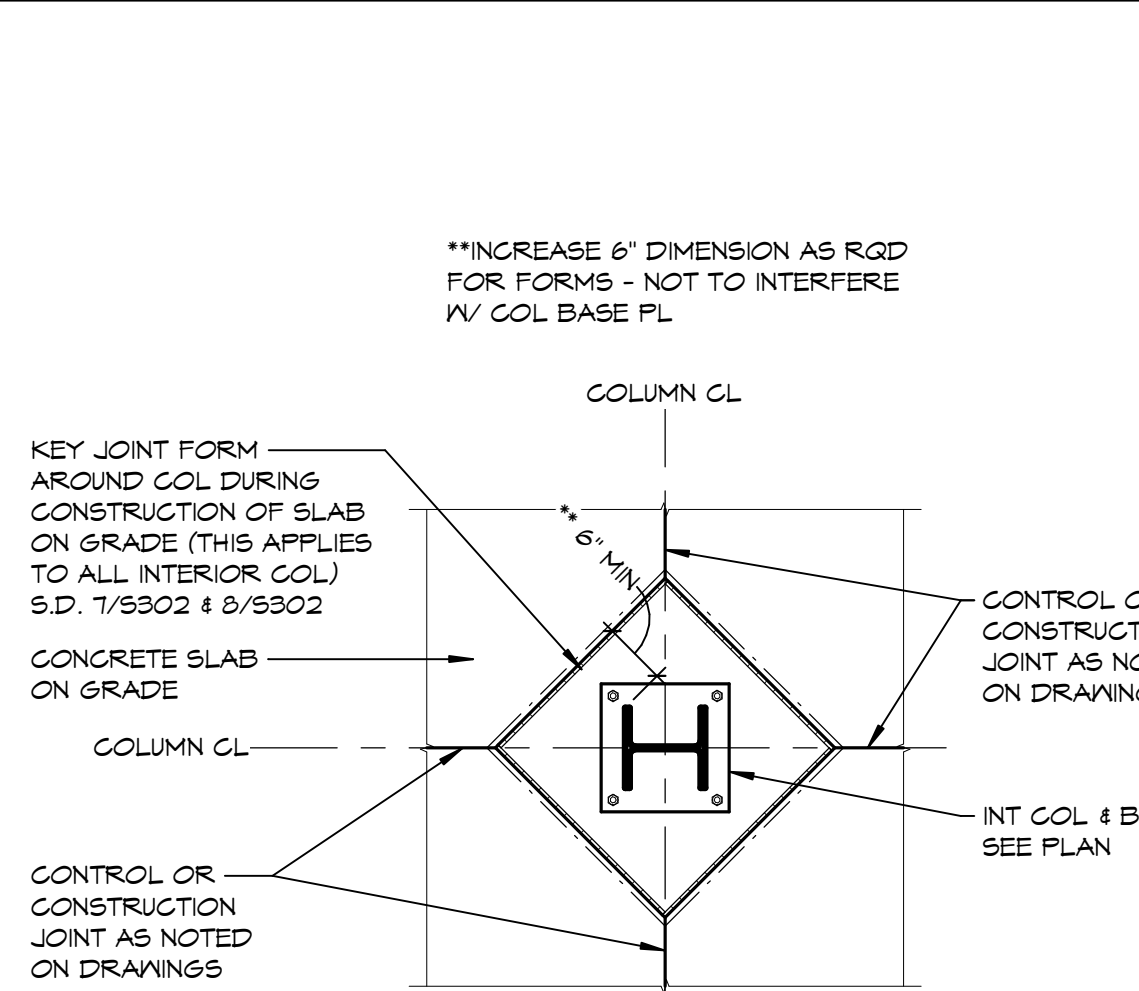
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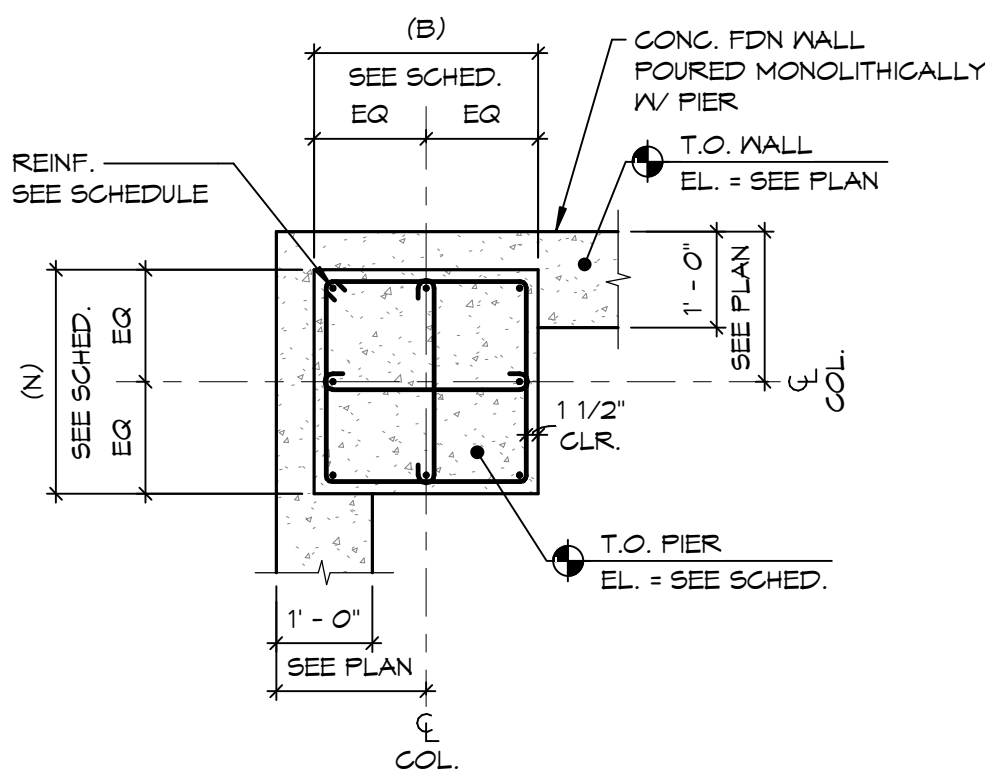
19 PIER P8 DETAIL
S301 1/2" = 1'-0"



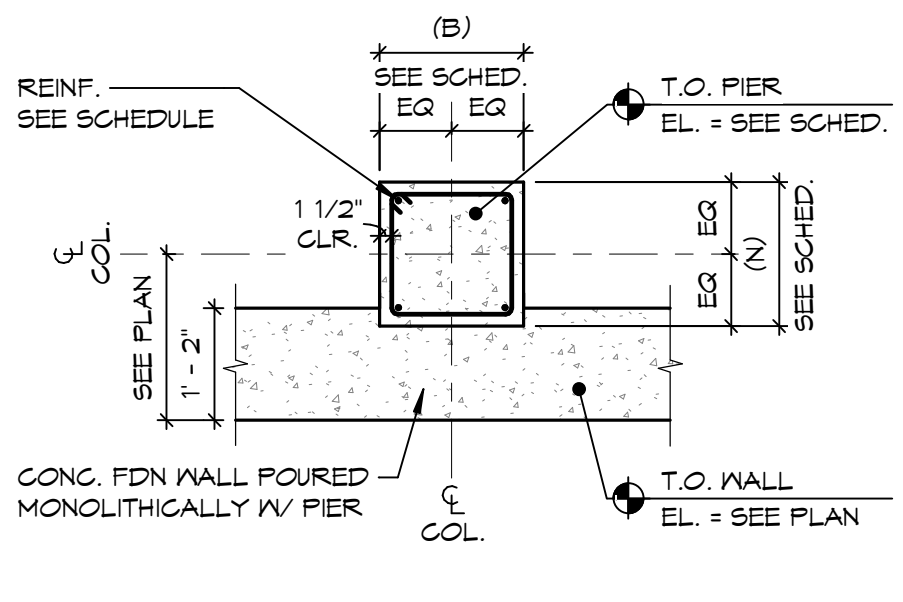
14 PC5 PILE CAP
S301 1/2" = 1'-0"



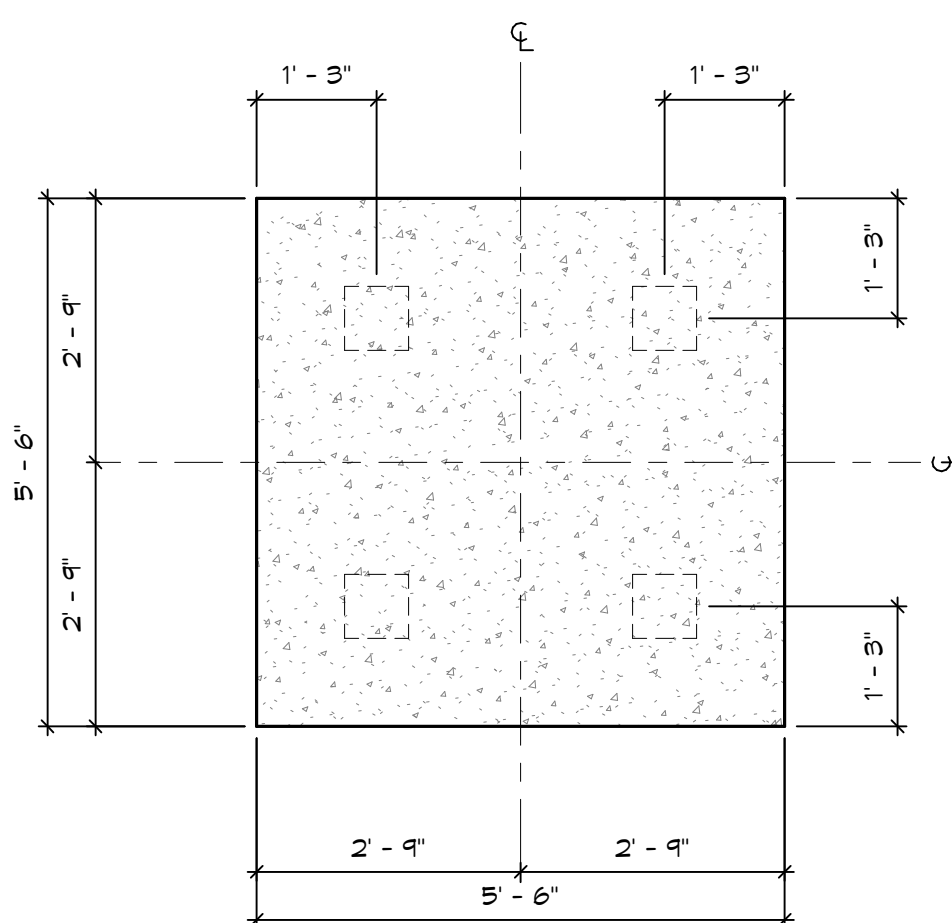
5 TYPICAL WALL CONSTRUCTION JOINT (WCJ)
S301 1/2" = 1'-0"



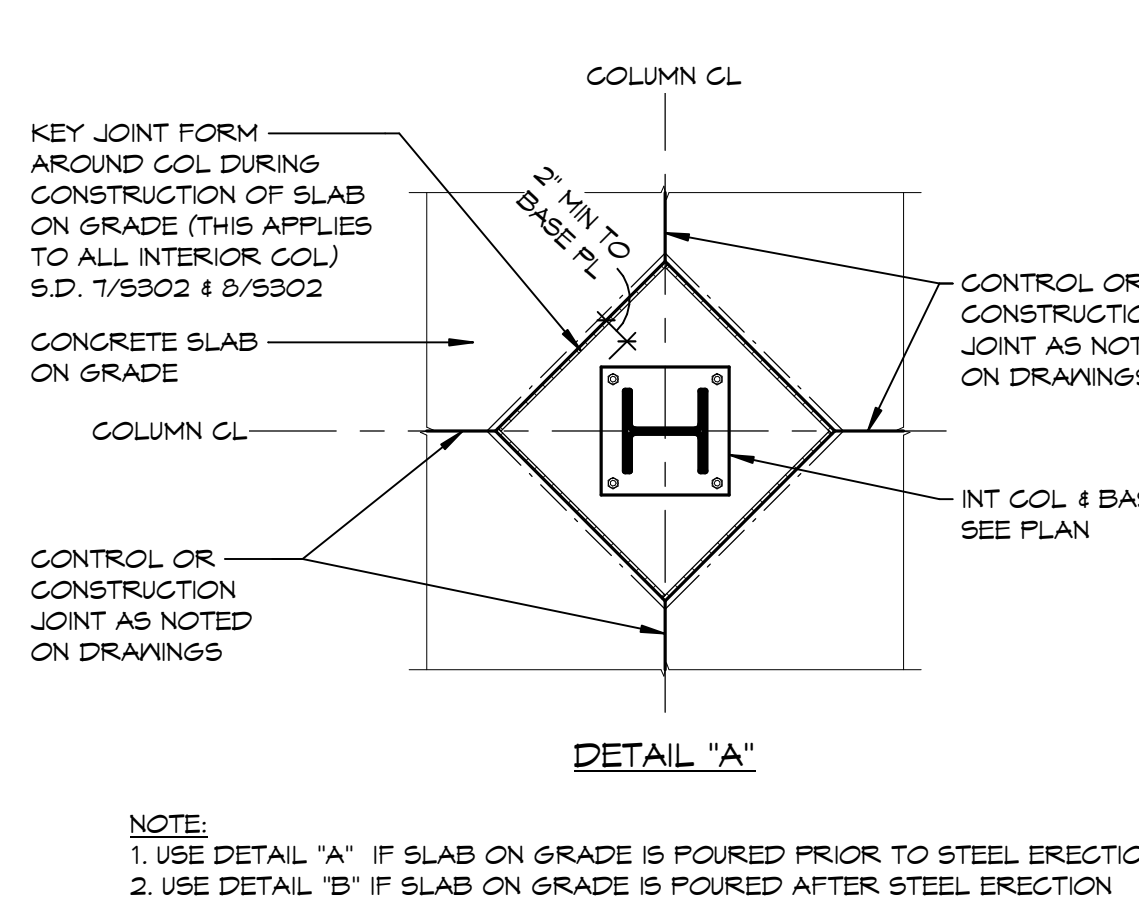
23 PIER P13 DETAIL
S301 1/2" = 1'-0"



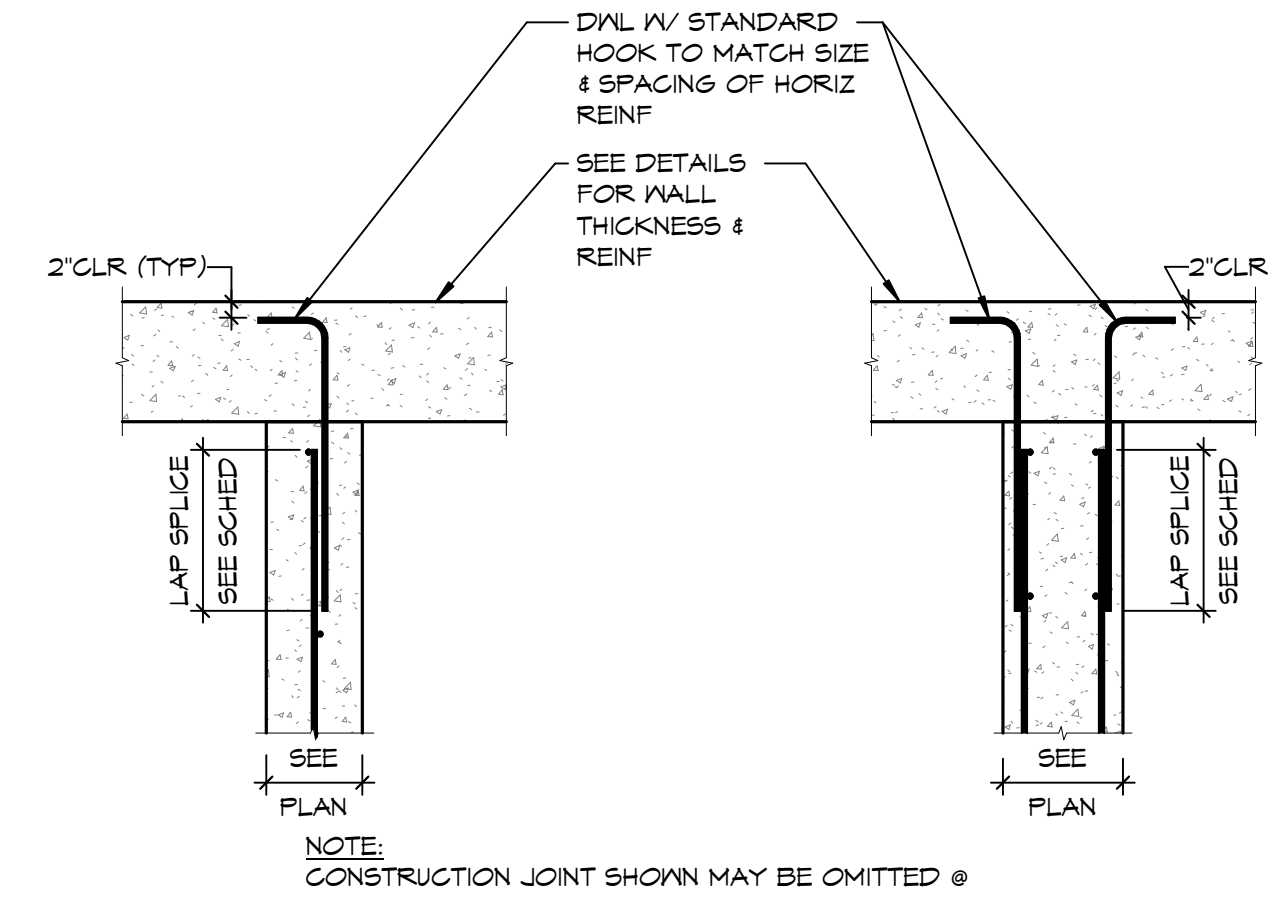
18 PIER P7 DETAIL
S301 1/2" = 1'-0"



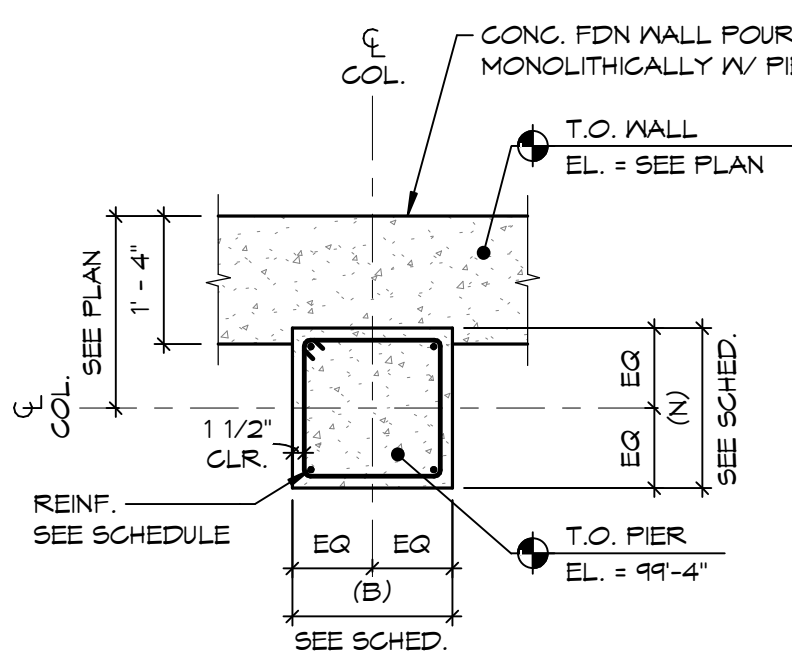
13 PC4 PILE CAP
S301 1/2" = 1'-0"



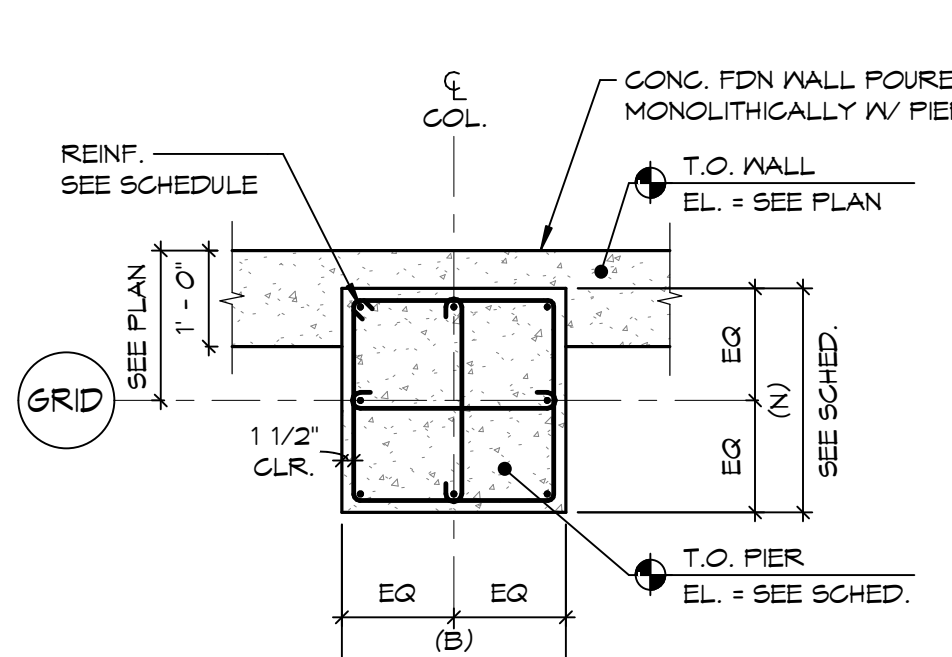
9 ISOLATION DETAIL
S301 1/2" = 1'-0"



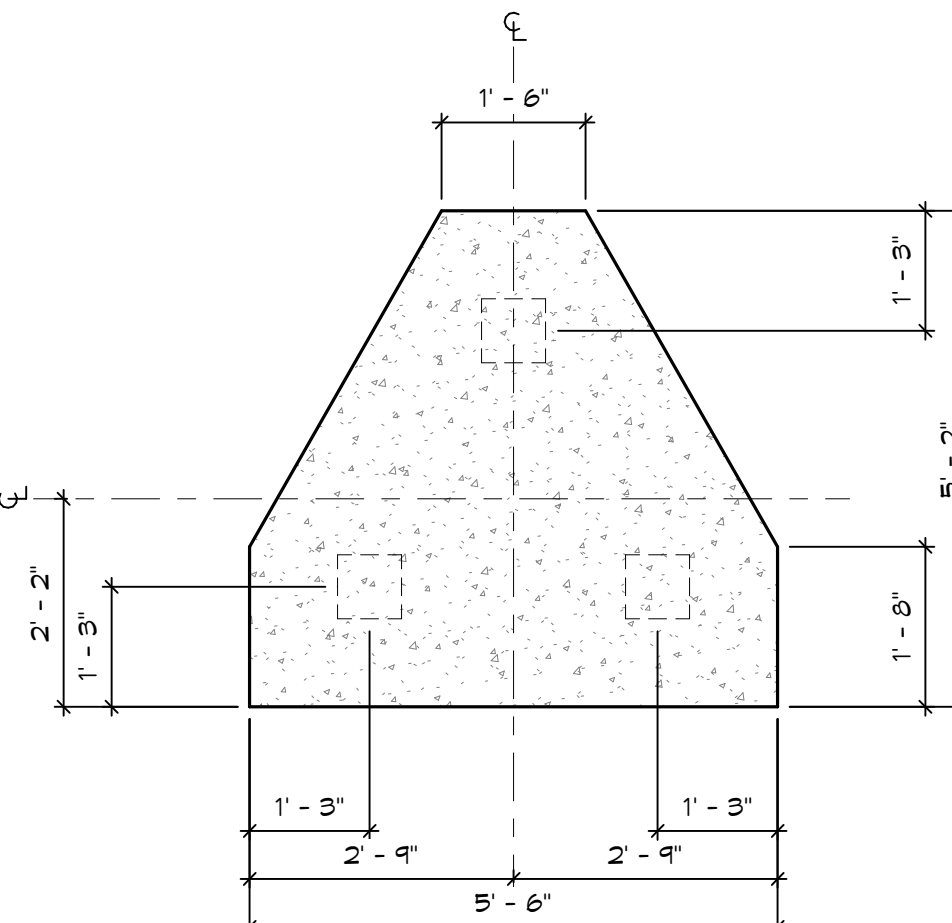
4 TYPICAL WALL INTERSECTION DETAIL
S301 1/2" = 1'-0"



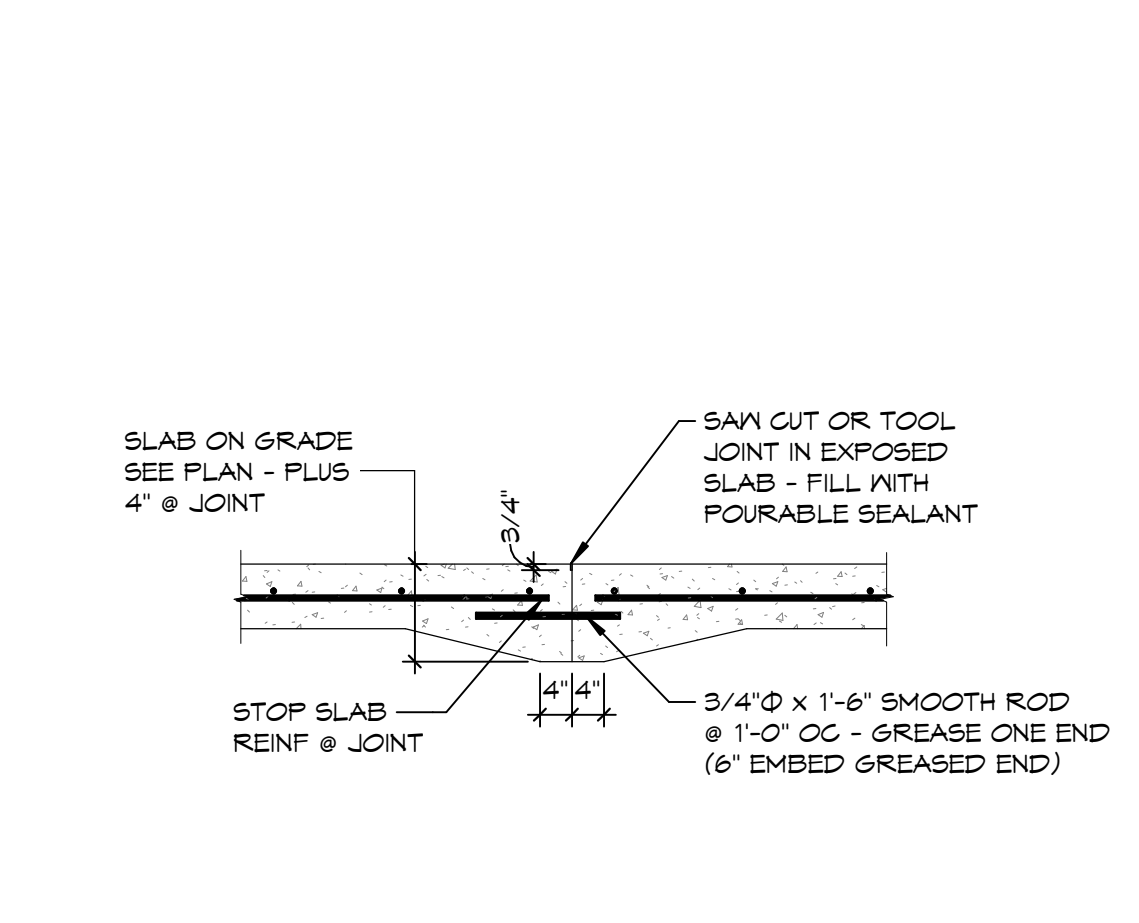
22 PIER P11 DETAIL
S301 1/2" = 1'-0"



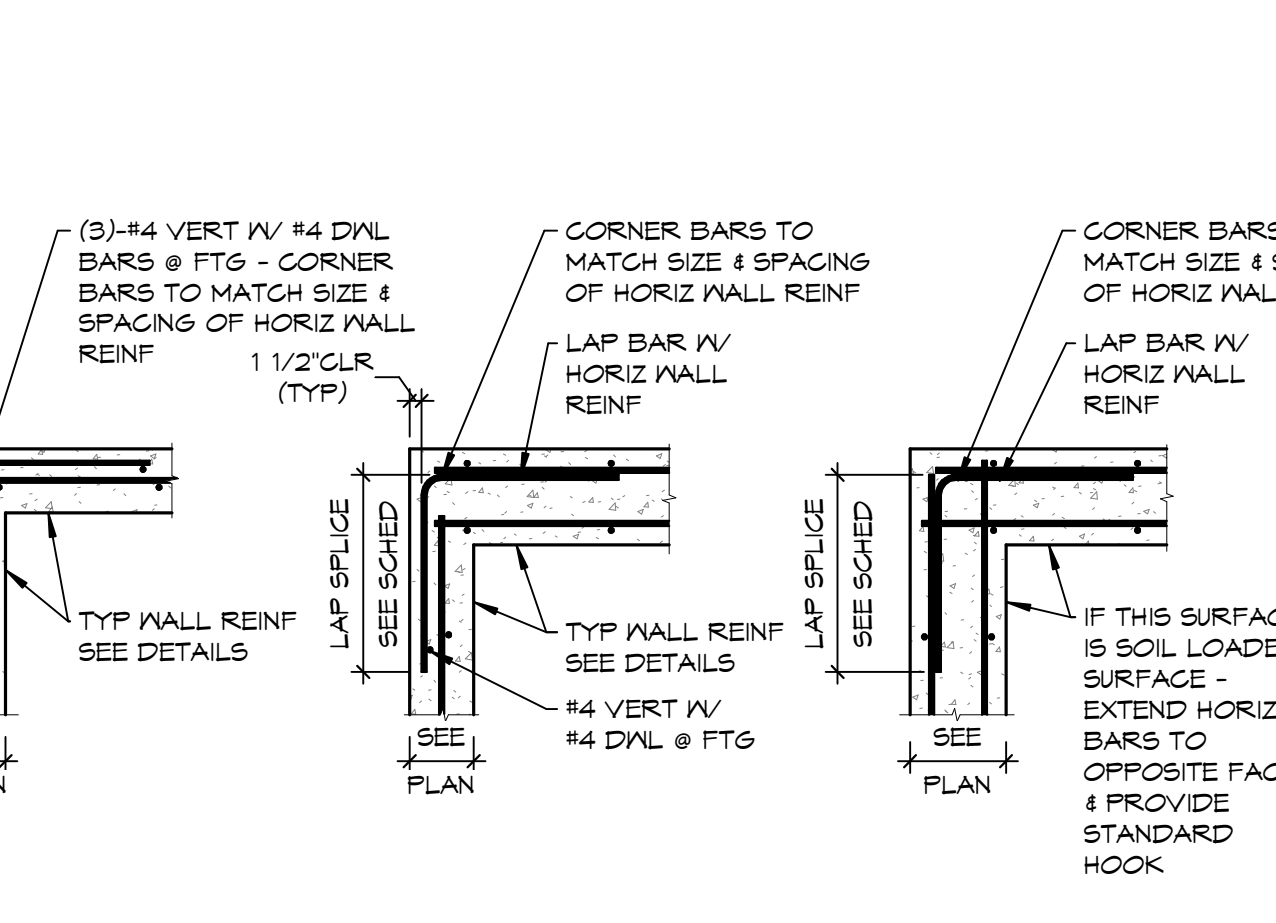
17 PIER P5/P6 DETAIL
S301 1/2" = 1'-0"



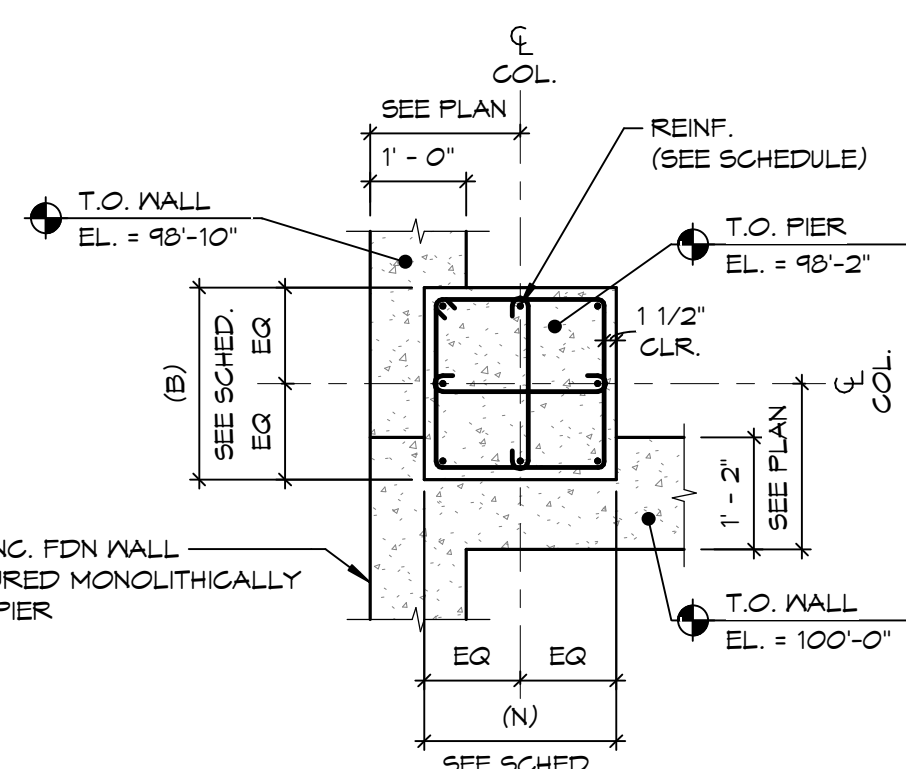
12 PC3 PILE CAP
S301 1/2" = 1'-0"



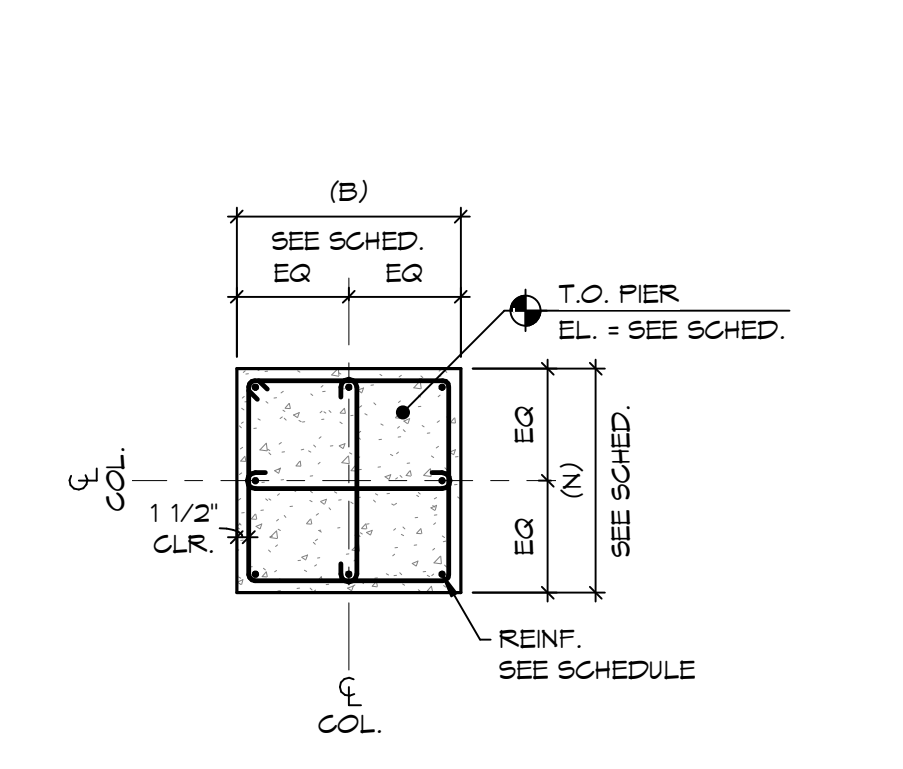
8 FLOOR CONSTRUCTION JOINT (CCJ)
S301 1/2" = 1'-0"



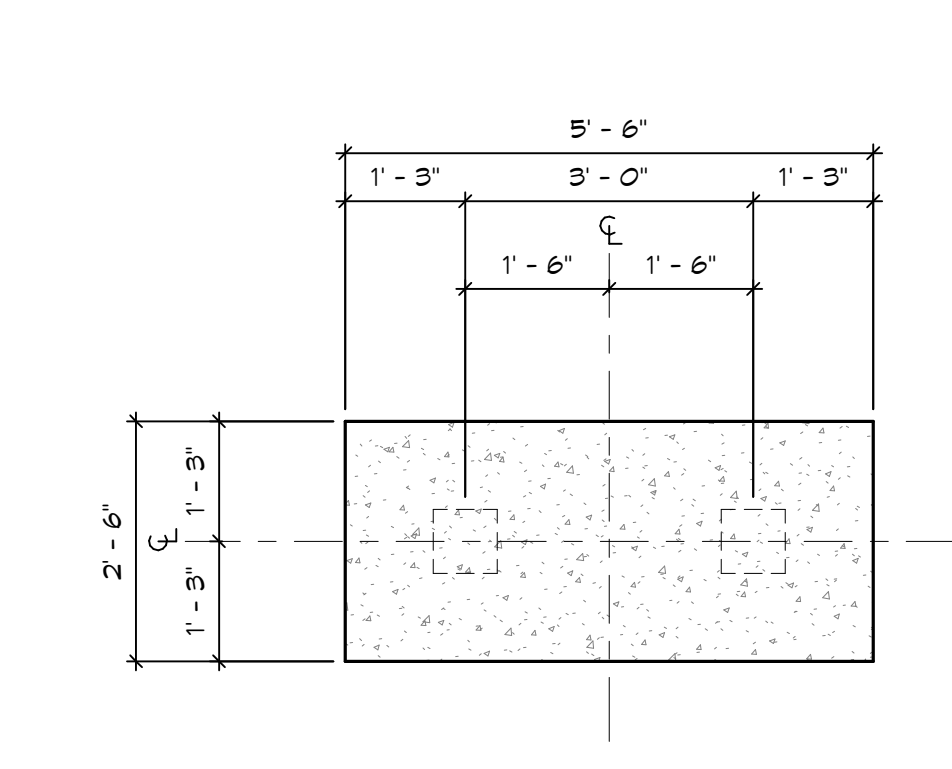
3 TYPICAL CORNER BAR DETAIL
S301 1/2" = 1'-0"



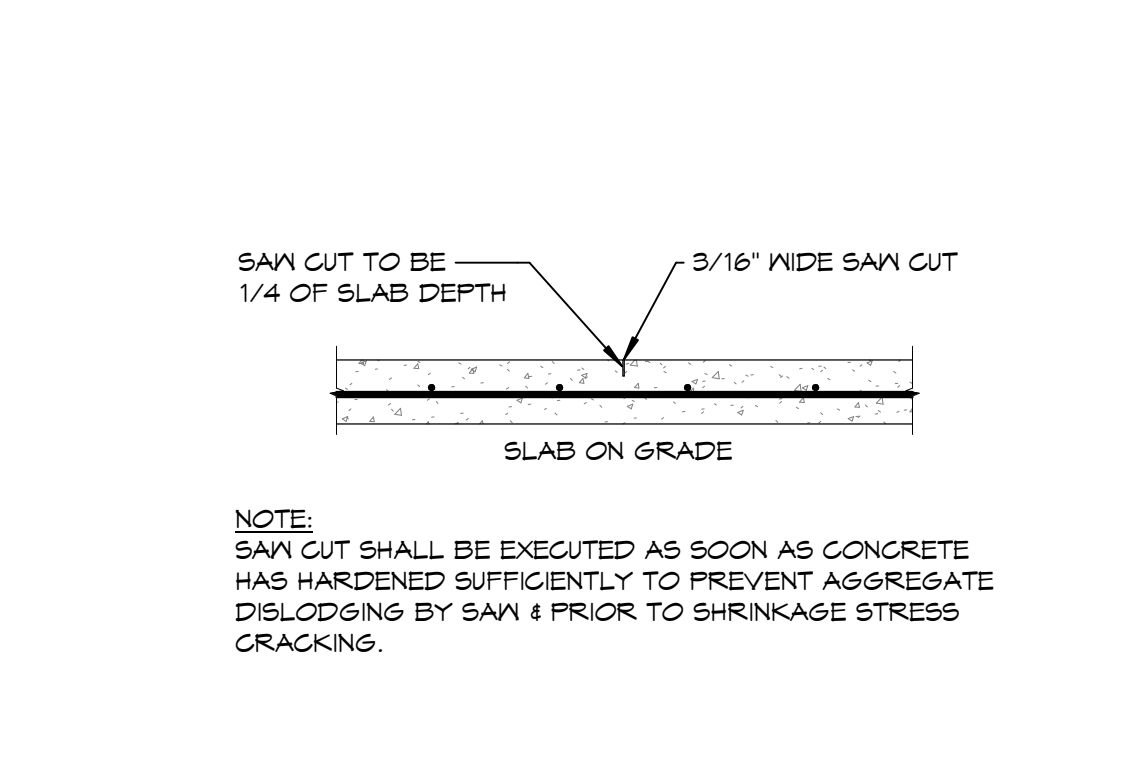
21 PIER P10 DETAIL
S301 1/2" = 1'-0"



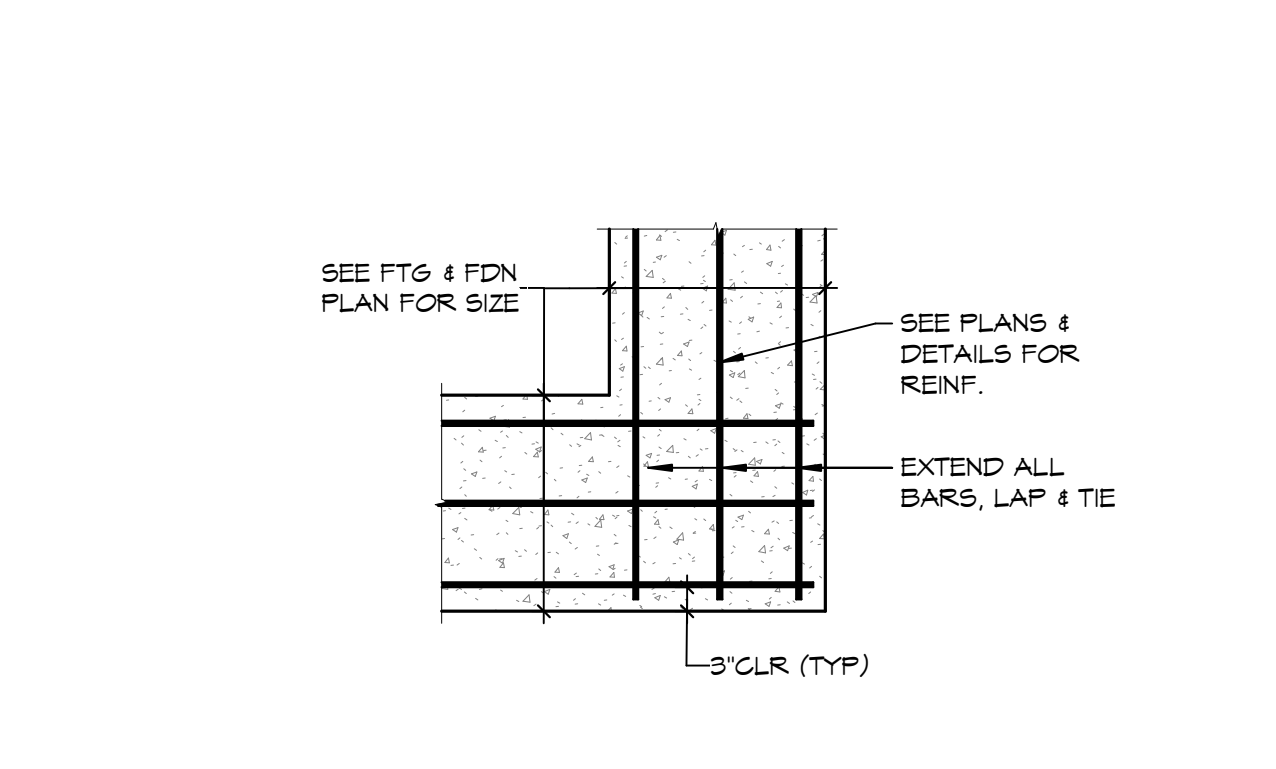
16 PIER P1/P2/P3/P4 DETAIL
S301 1/2" = 1'-0"



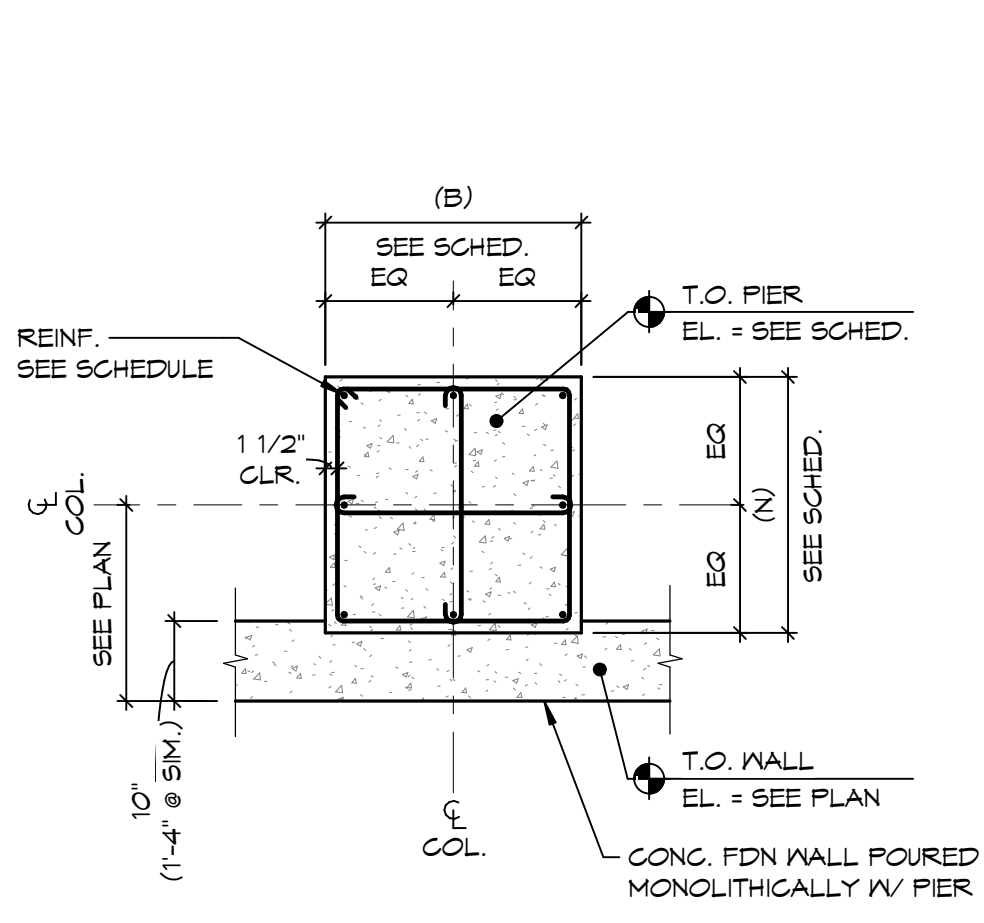
11 PC2 PILE CAP
S301 1/2" = 1'-0"



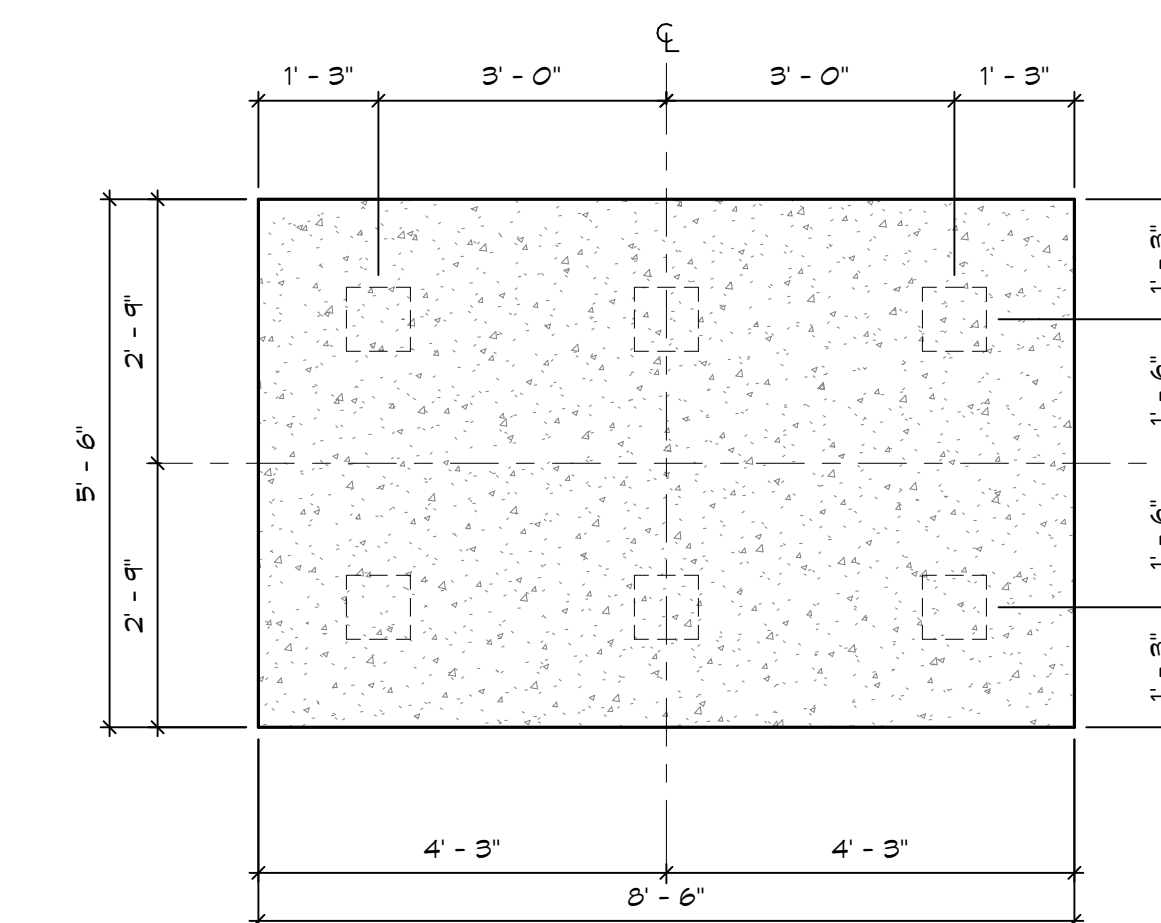
7 FLOOR CONTROL JOINT (CJ)
S301 1/2" = 1'-0"



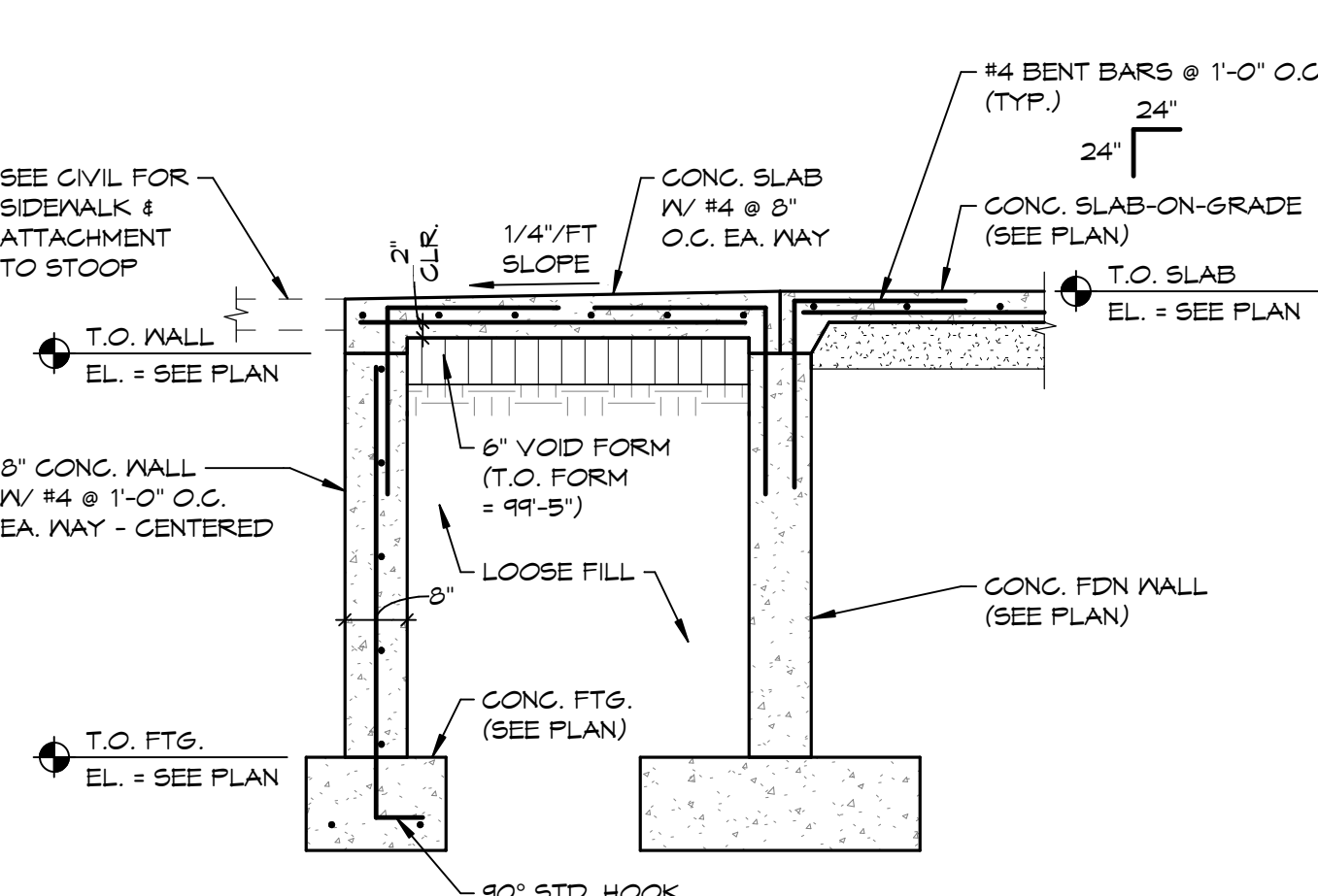
2 FOOTING CORNER REINFORCEMENT DETAIL
S301 1/2" = 1'-0"



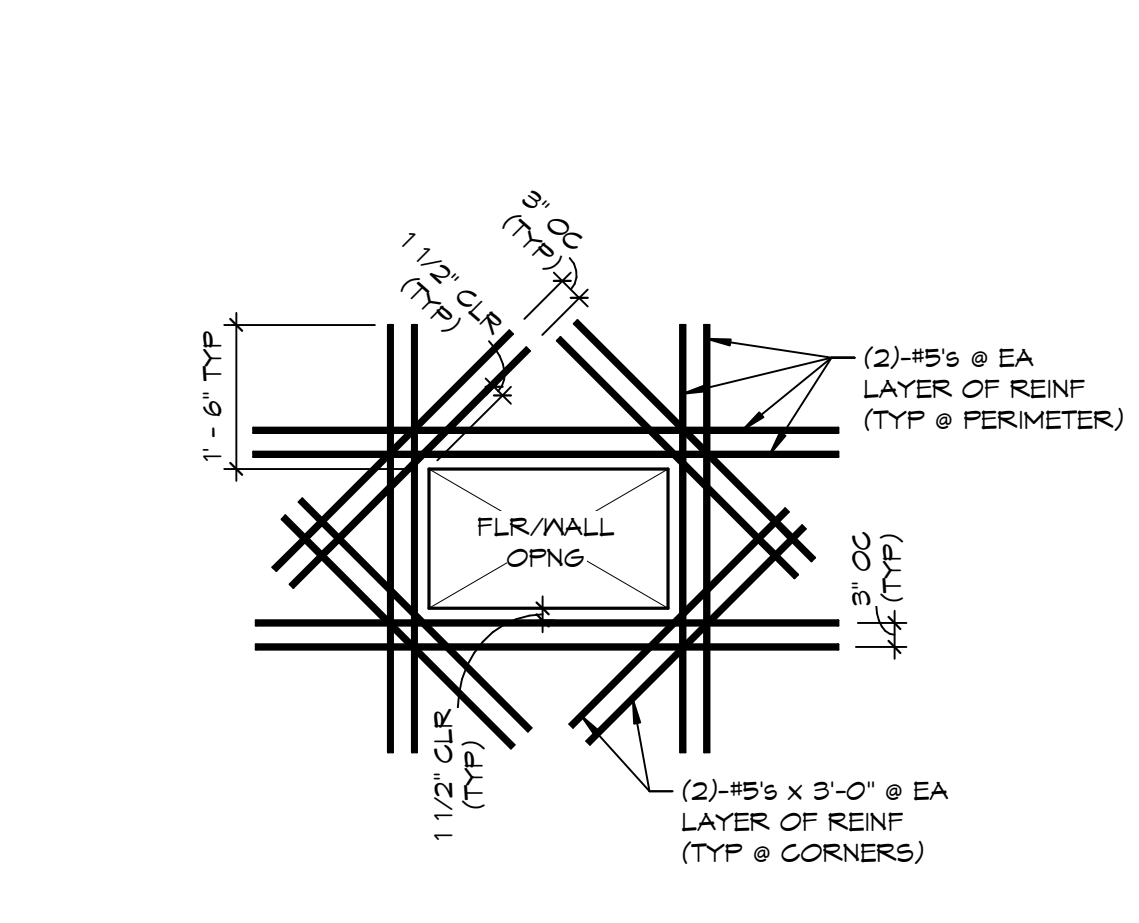
20 PIER P9 DETAIL
S301 1/2" = 1'-0"



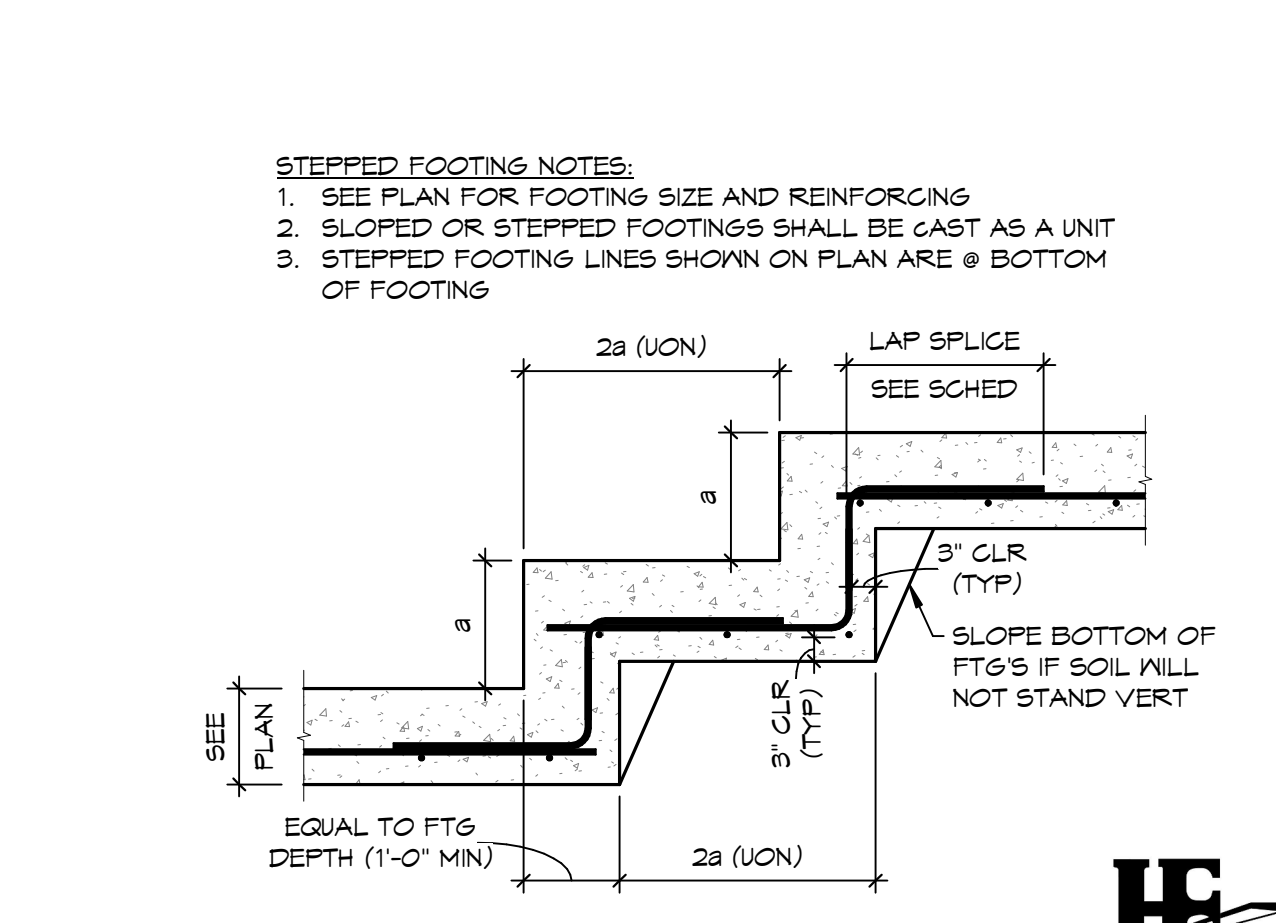
15 PC6 PILE CAP
S301 1/2" = 1'-0"



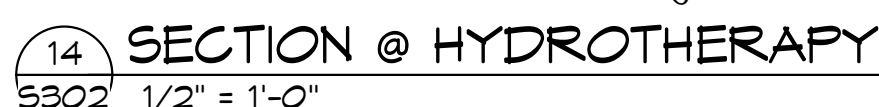
10 STOOP DETAIL
S301 1/2" = 1'-0"



6 ADDITIONAL REINF. @ FLOOR/WALL OPENING
S301 1/2" = 1'-0"



1 STEPS DETAIL
S301 1/2" = 1'-0"



BP01 BID PACKAGE 01	03/01/2022
MARK DESCRIPTION	DATE

PROJECT NO: 20191170
DRAWN BY: CJK
CHECKED BY: DDN

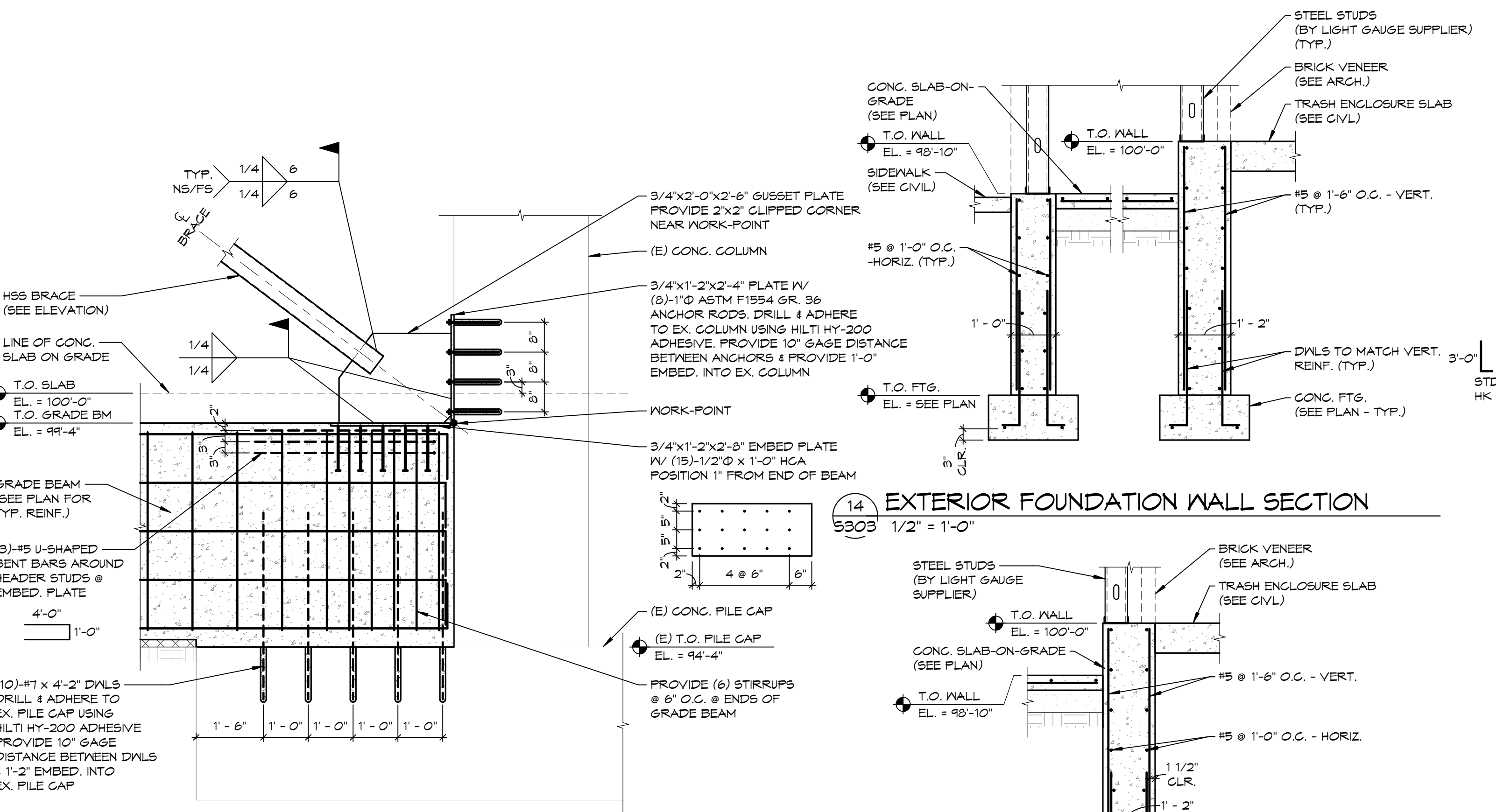
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STAMP

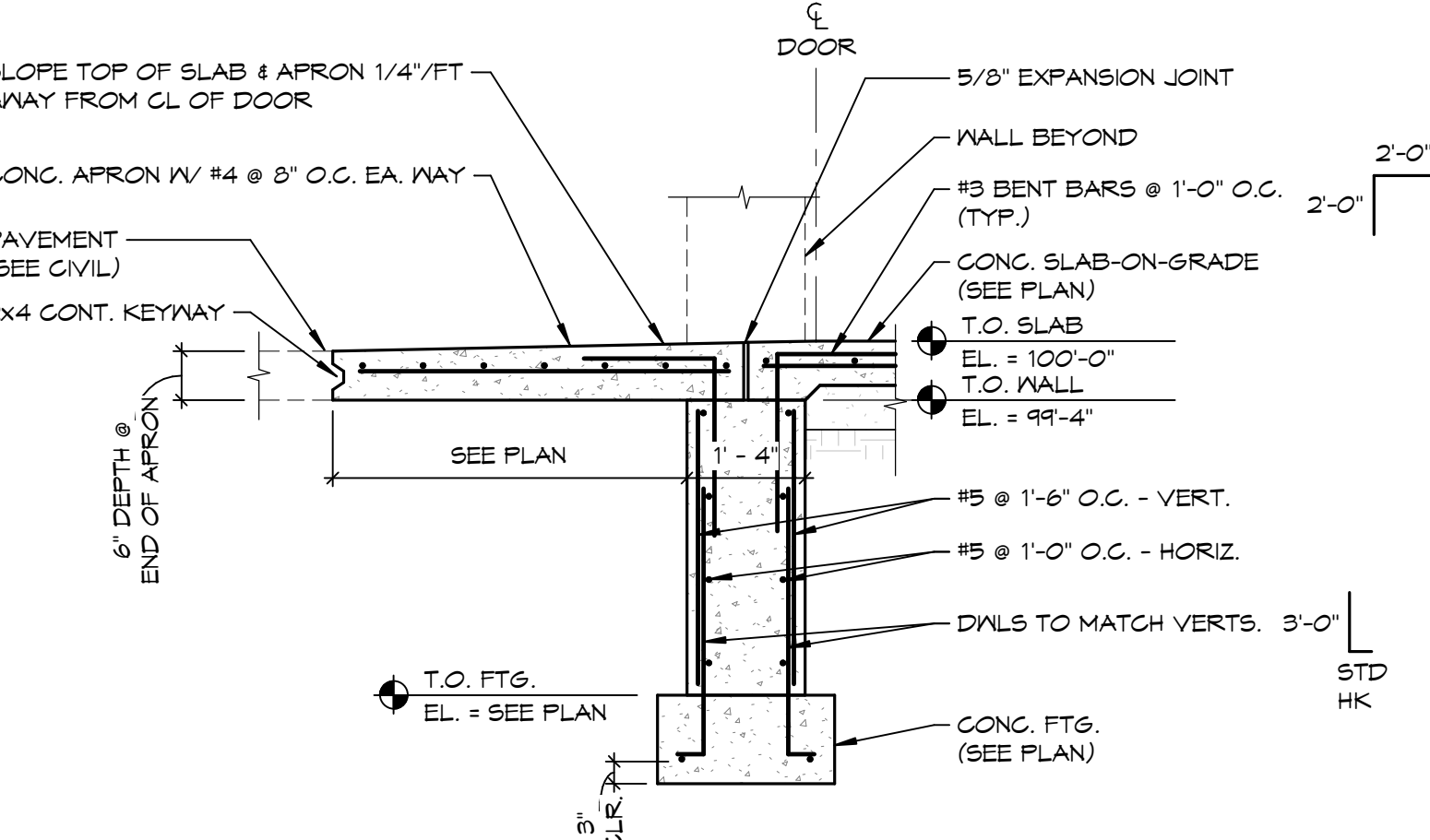


DRAWING TITLE
FOUNDATION DETAILS

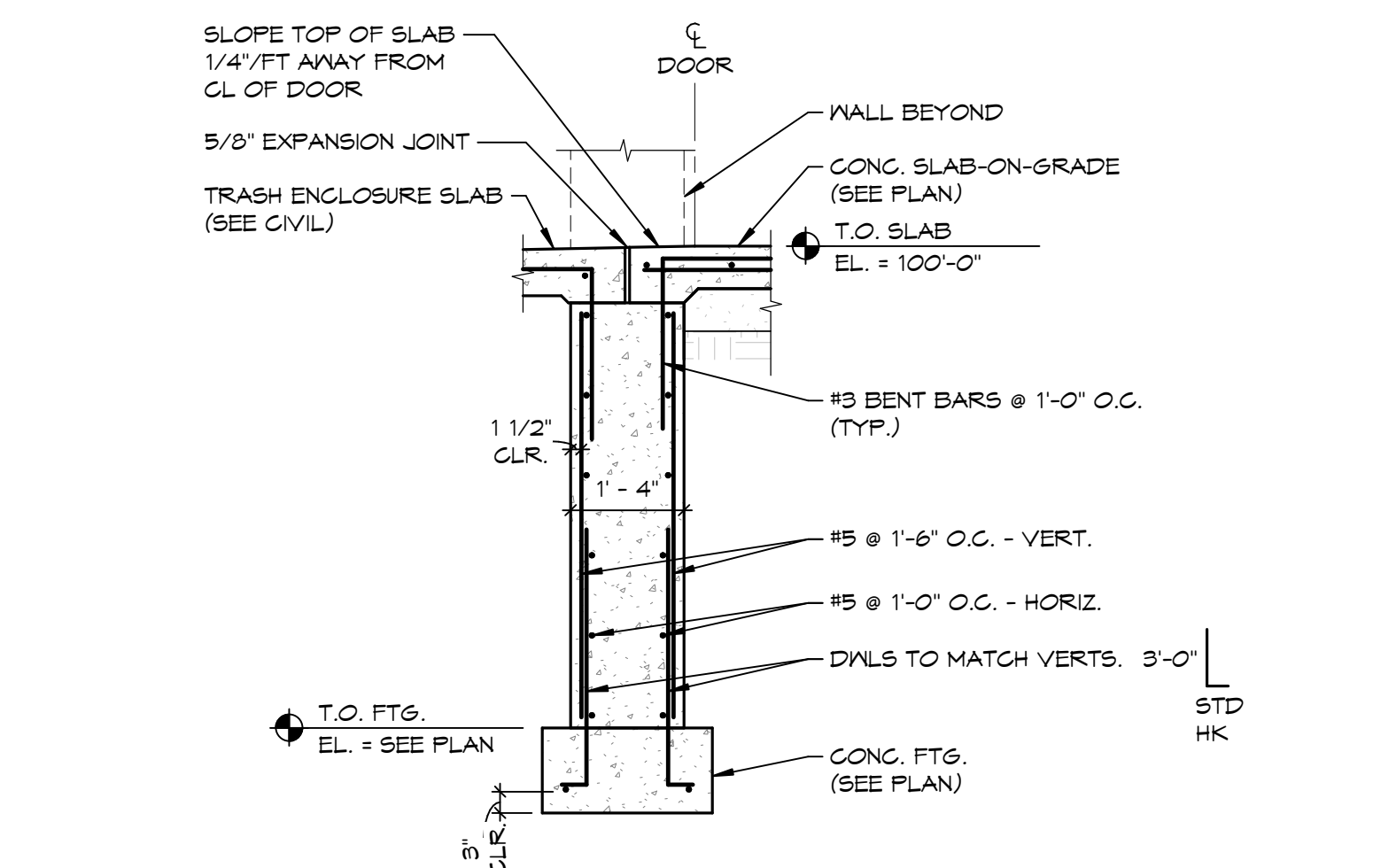
S303



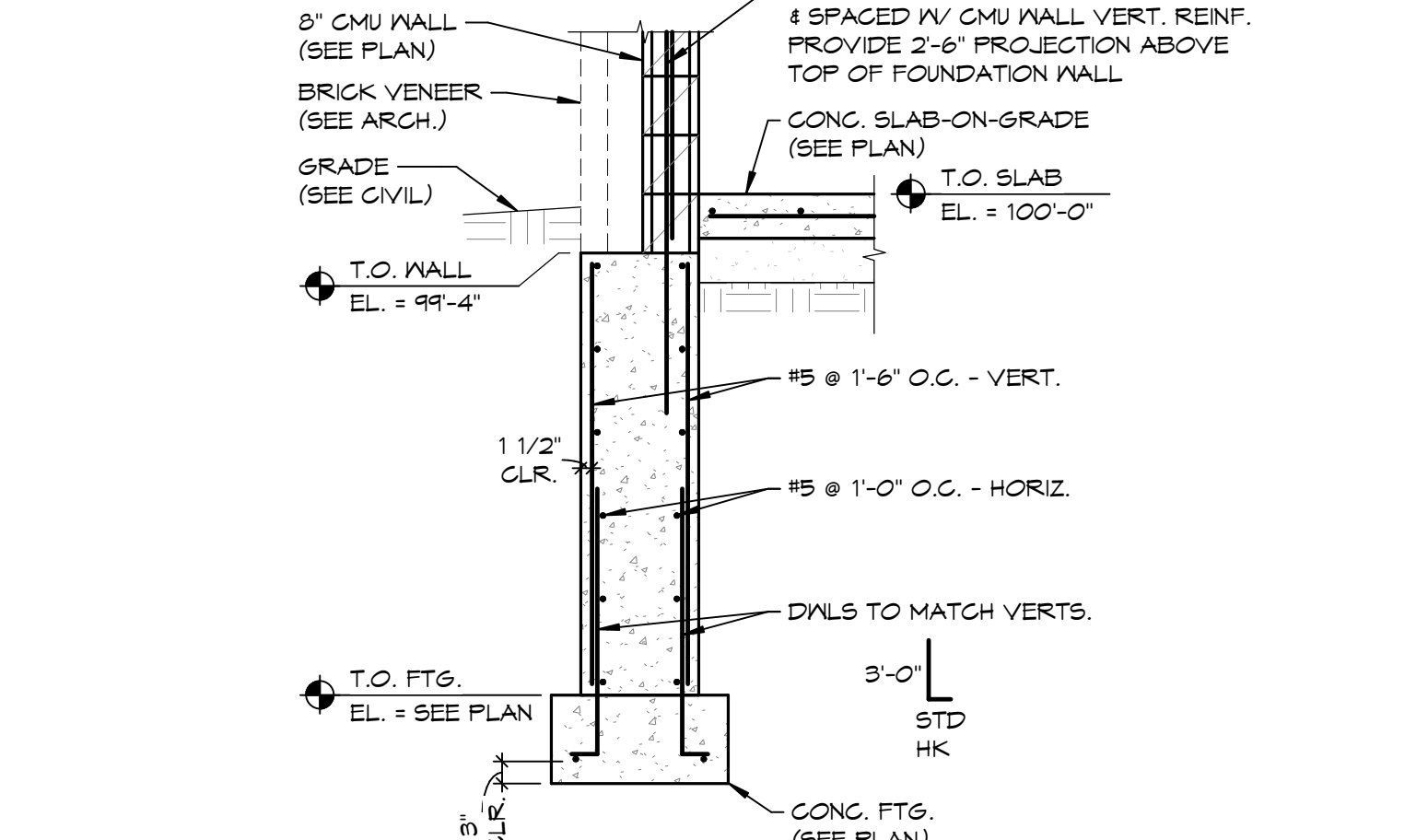
14 EXTERIOR FOUNDATION WALL SECTION
1/2" = 1'-0"



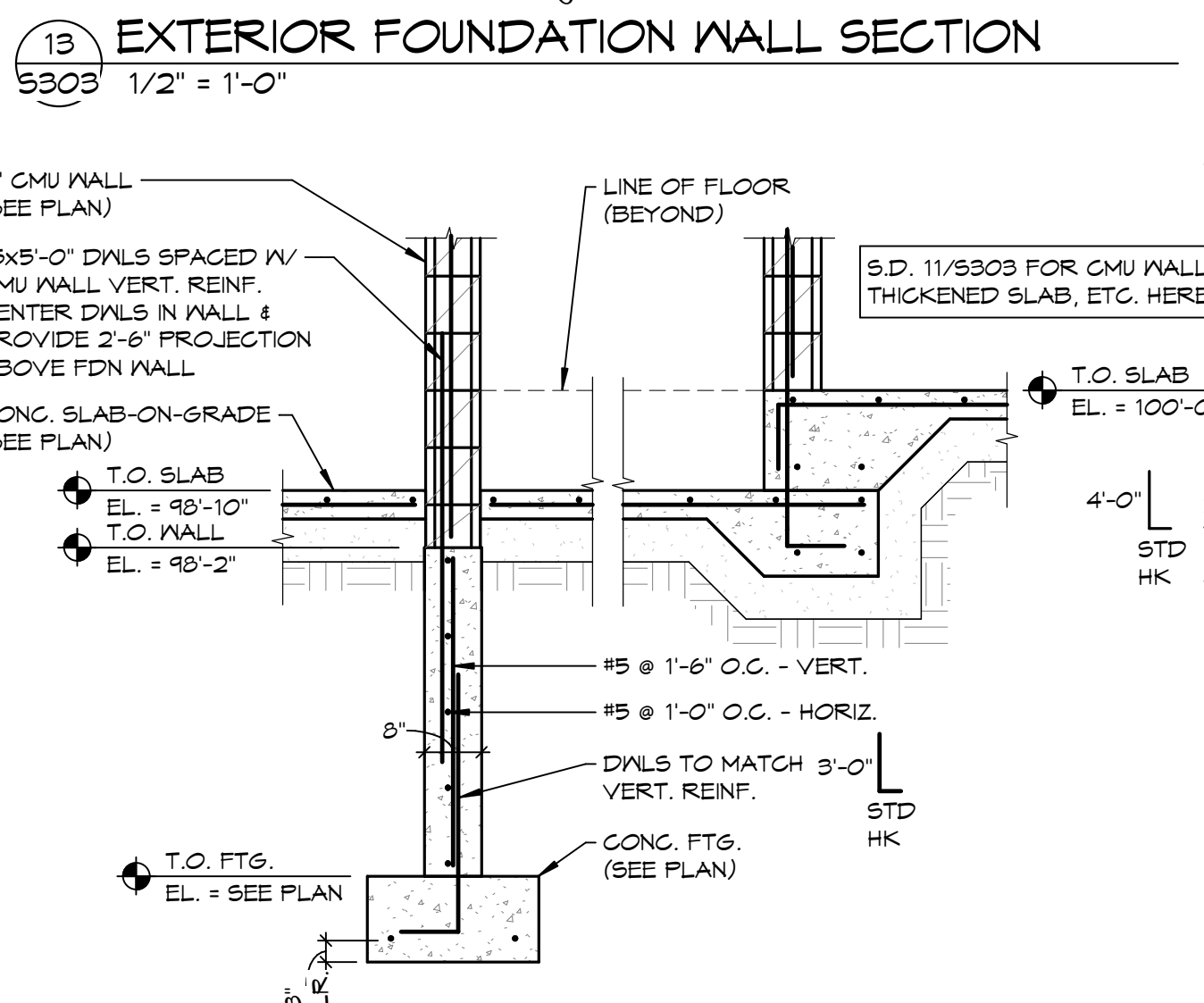
13 EXTERIOR FOUNDATION WALL SECTION
1/2" = 1'-0"



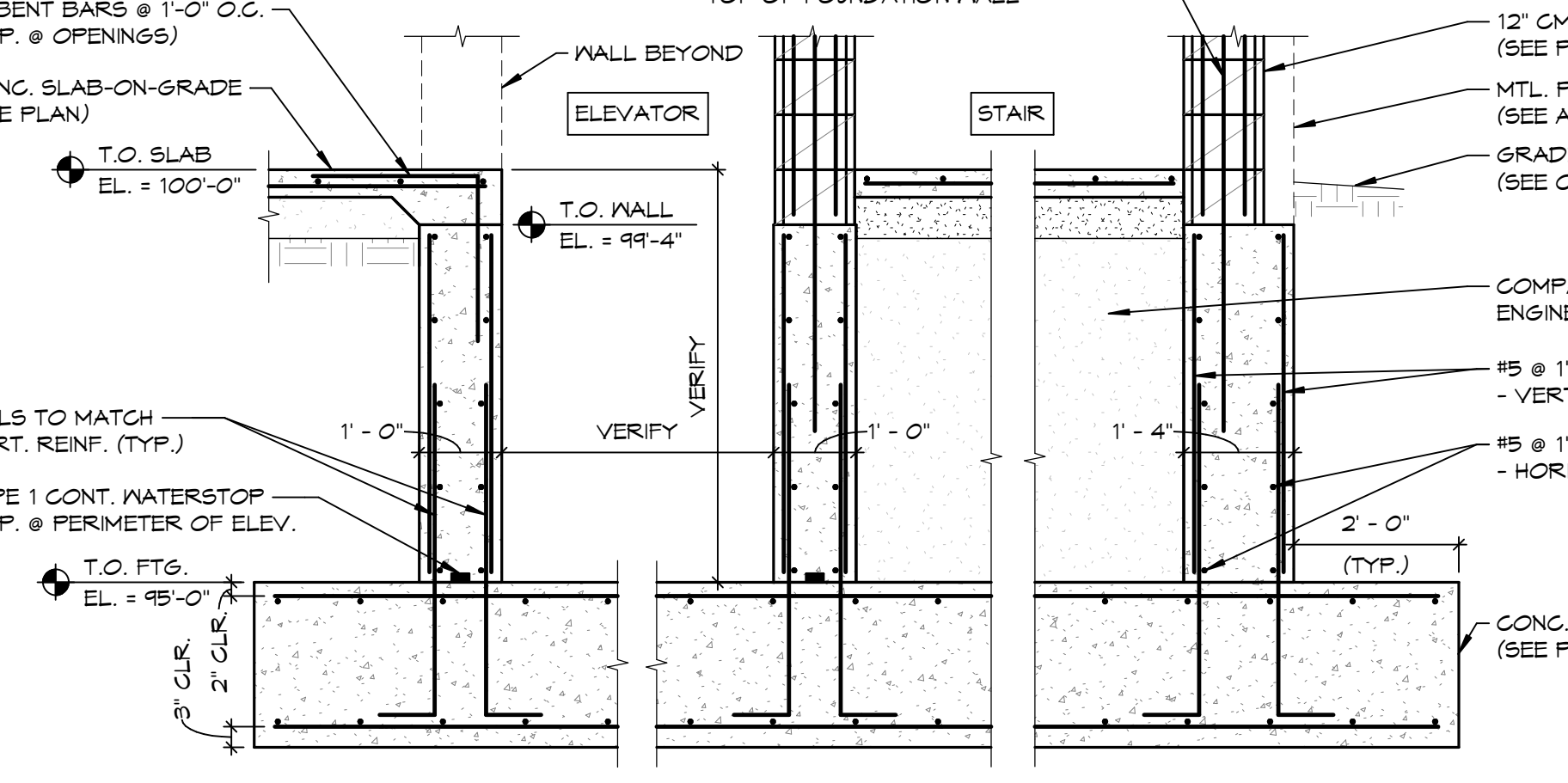
12 EXTERIOR FOUNDATION WALL SECTION
1/2" = 1'-0"



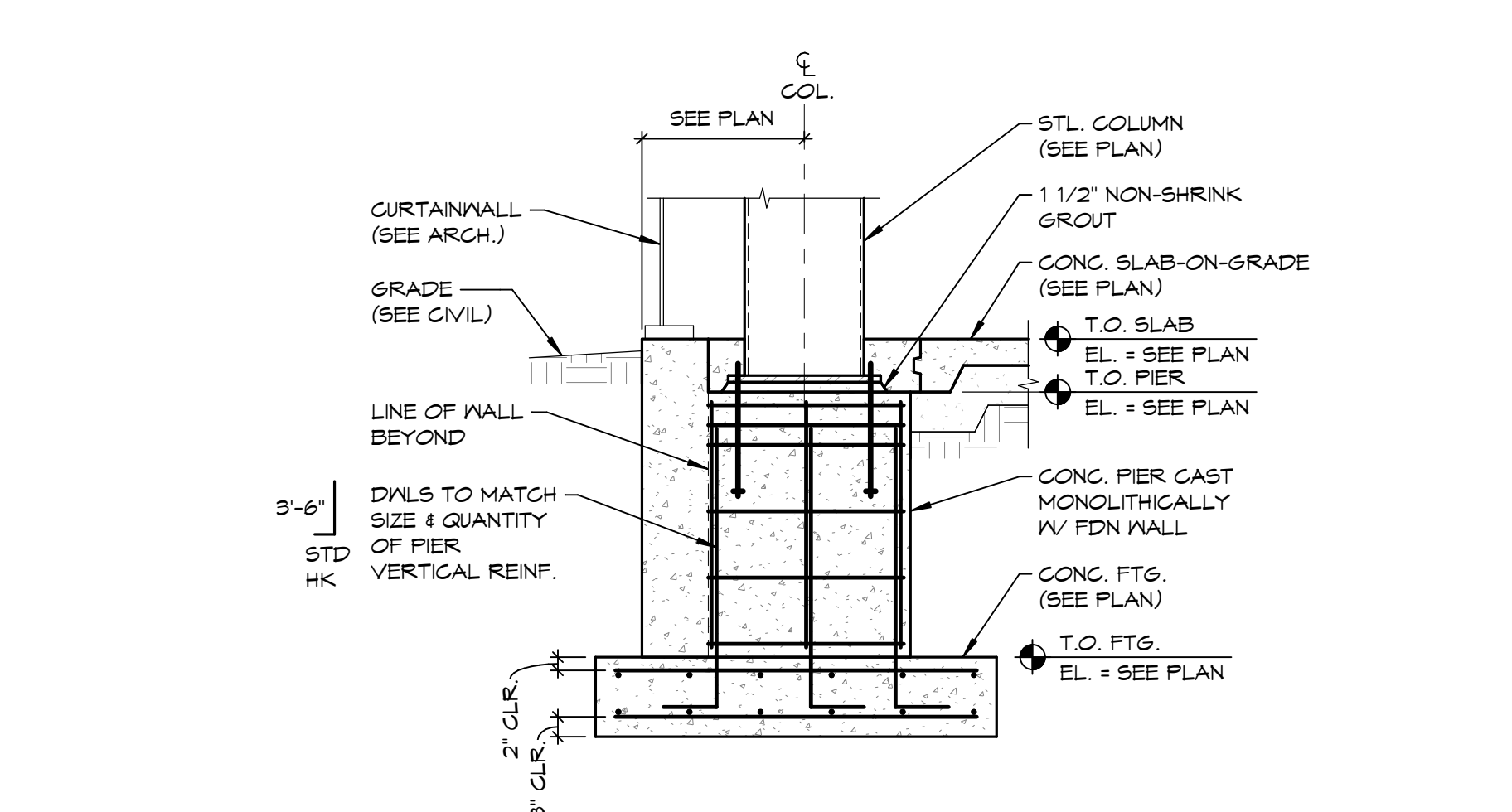
11 EXTERIOR FOUNDATION WALL SECTION
1/2" = 1'-0"



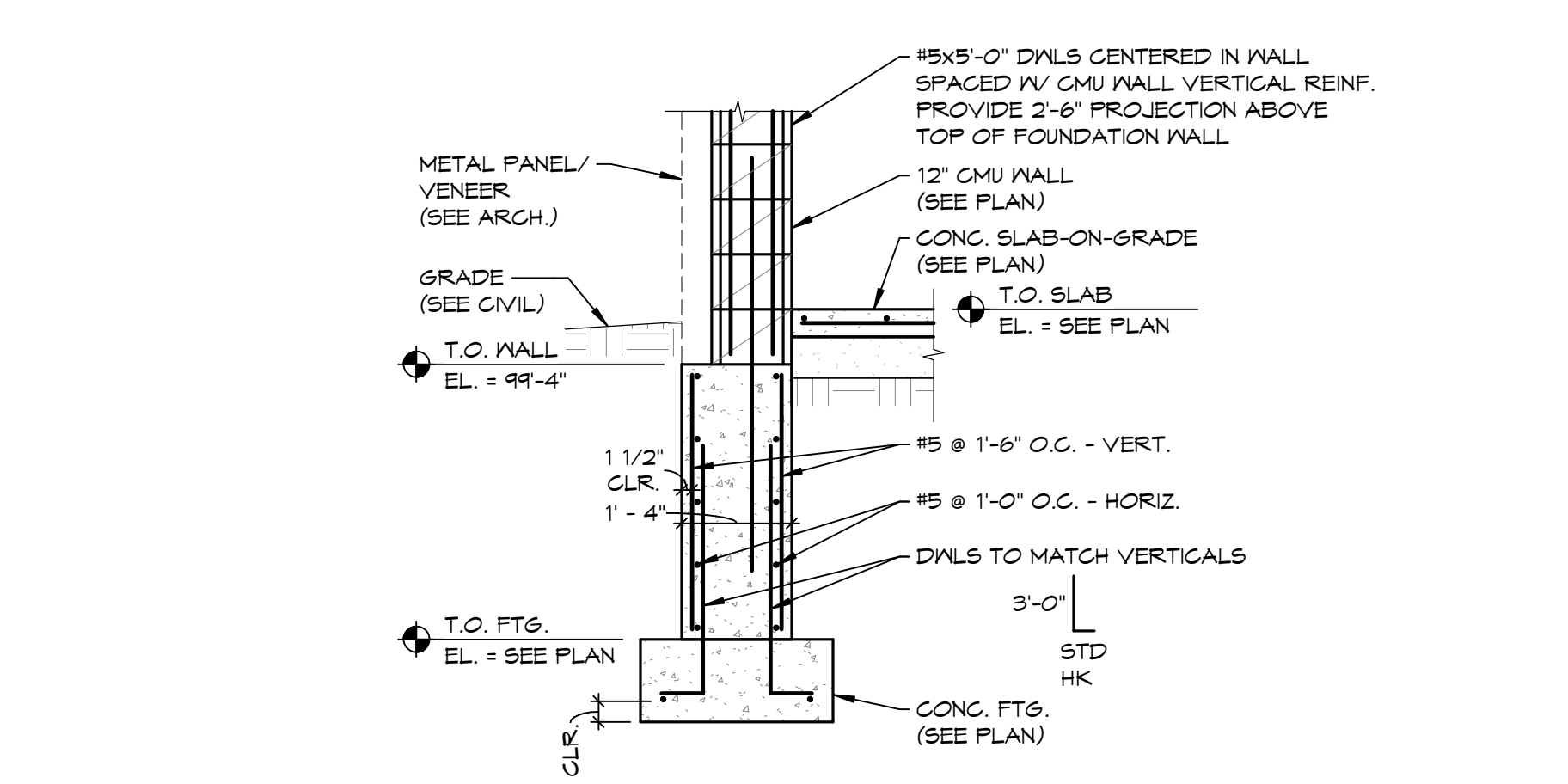
9 SECTION @ TRASH ENCLOSURE
1/2" = 1'-0"



8 SECTION @ STAIR/ELEVATOR
1/2" = 1'-0"

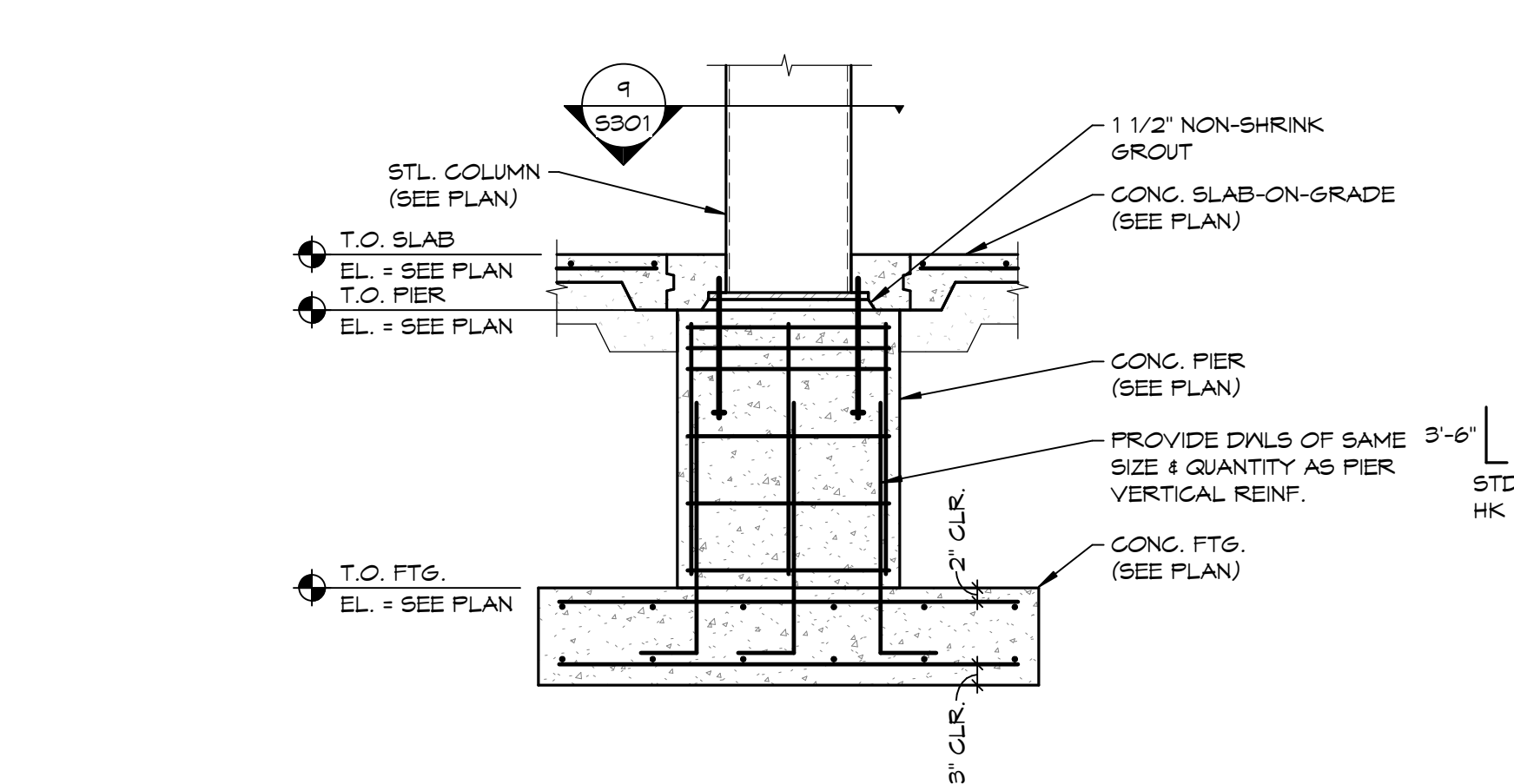


7 EXTERIOR FOUNDATION WALL SECTION
1/2" = 1'-0"

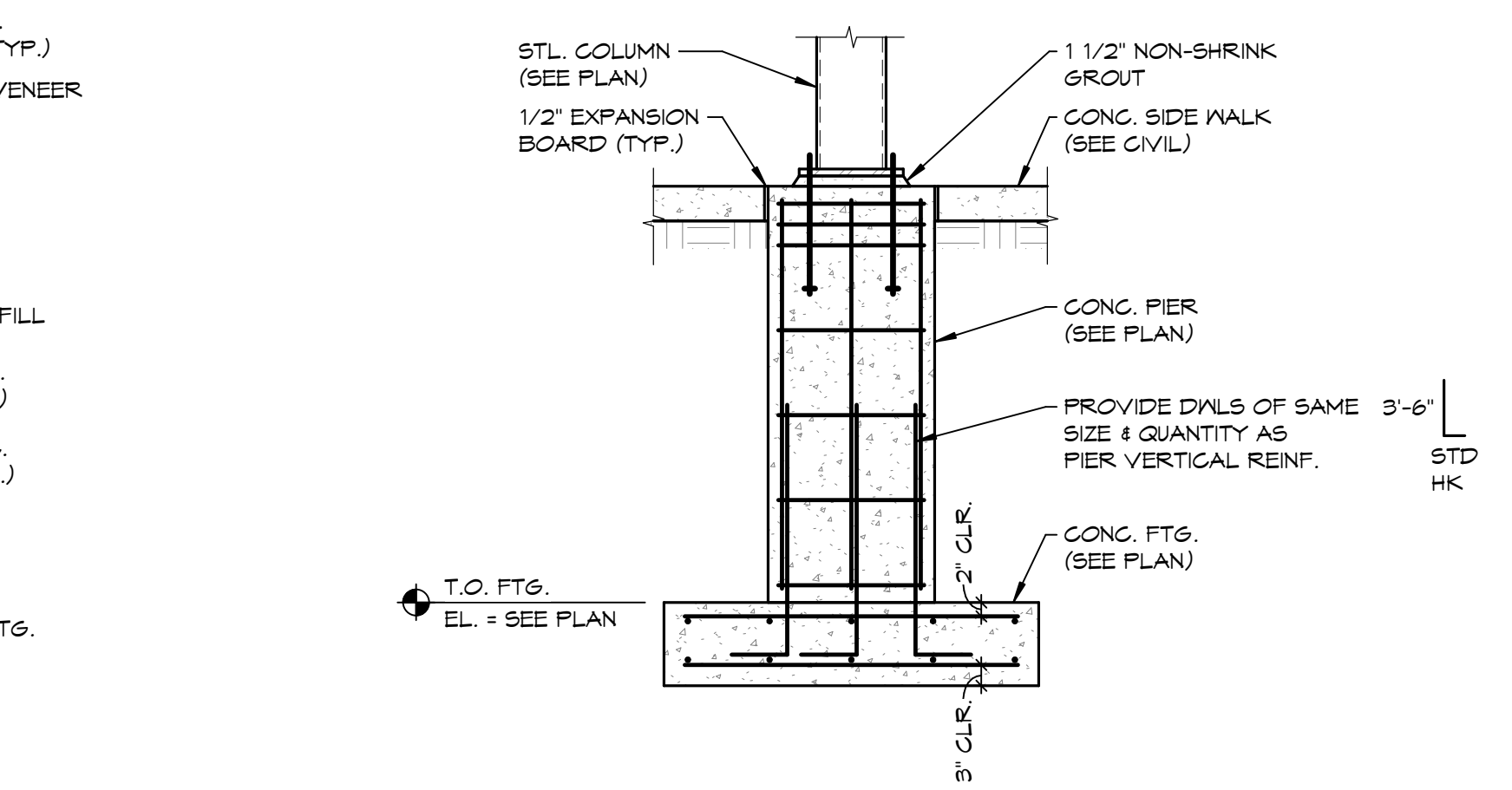


6 EXTERIOR FOUNDATION WALL SECTION
1/2" = 1'-0"

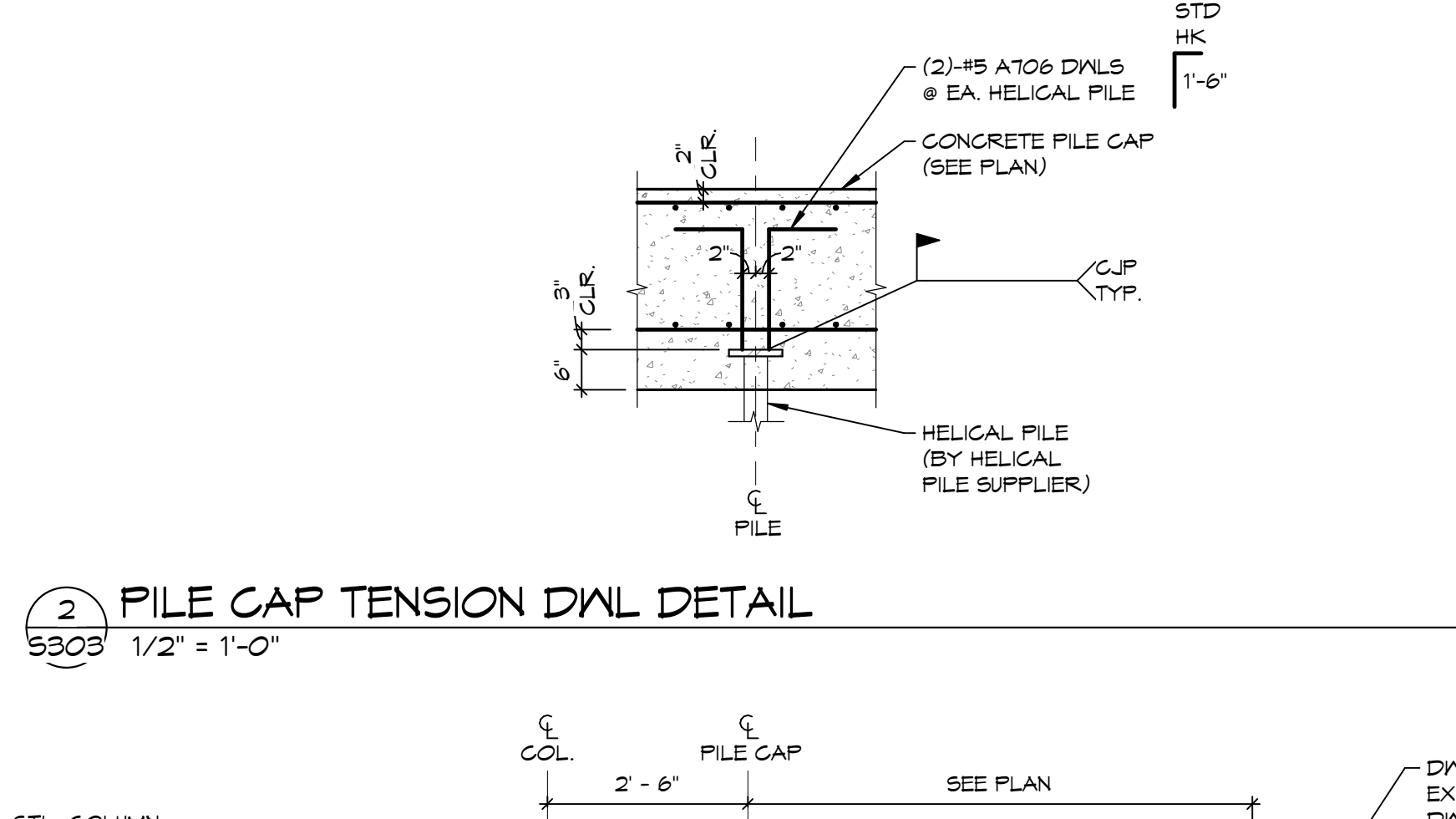
5 EXTERIOR FOUNDATION SECTION
1/2" = 1'-0"



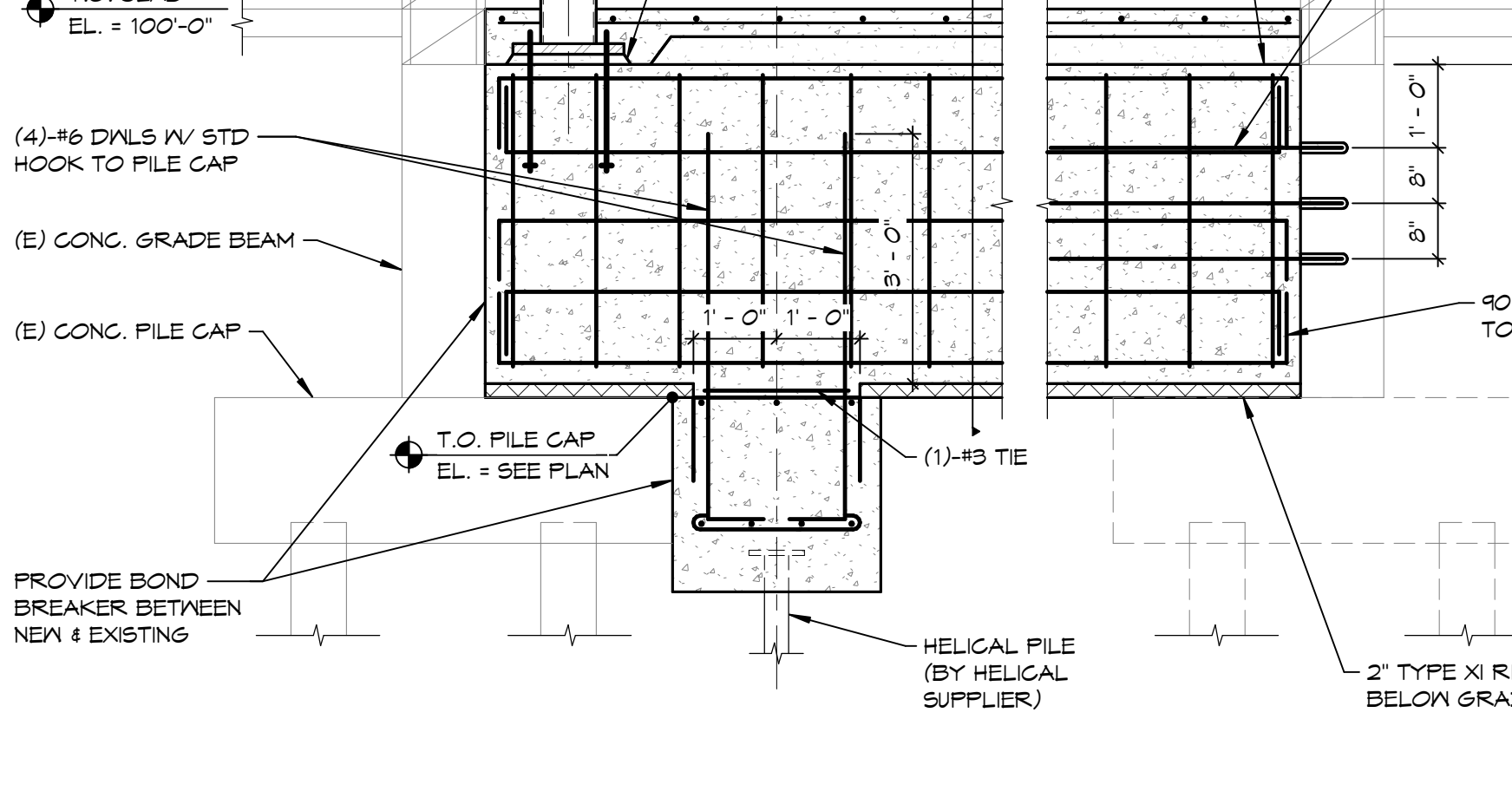
4 SECTION @ INTERIOR COLUMN
1/2" = 1'-0"



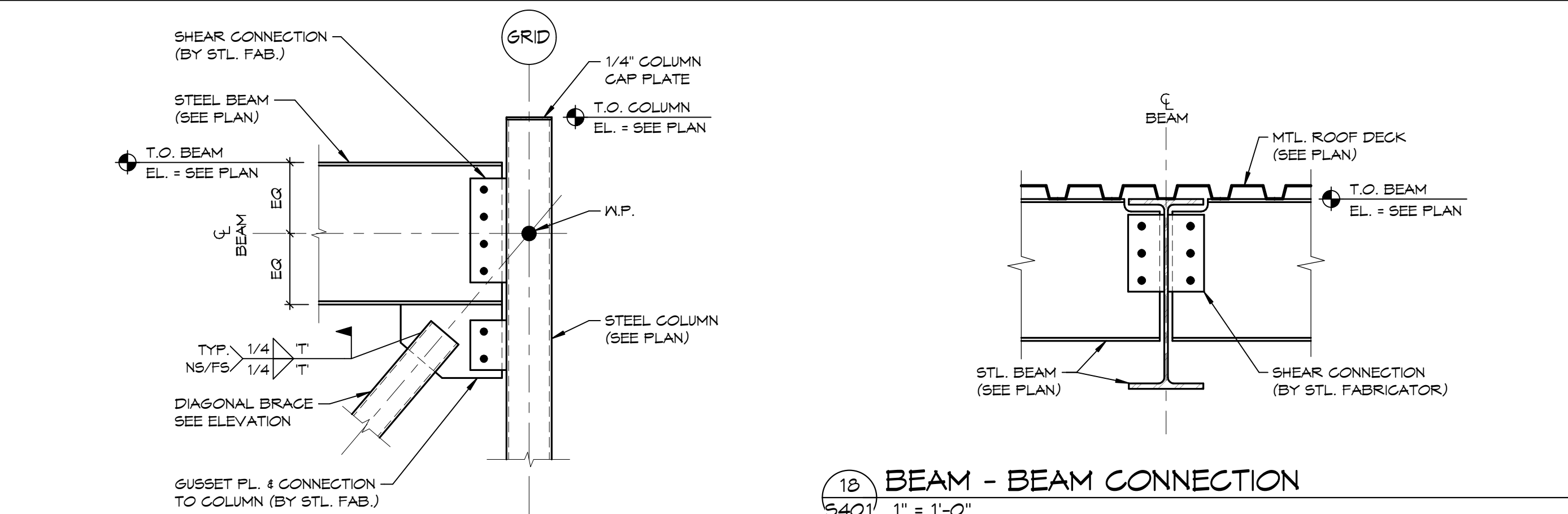
3 SECTION @ EXTERIOR COLUMN
1/2" = 1'-0"



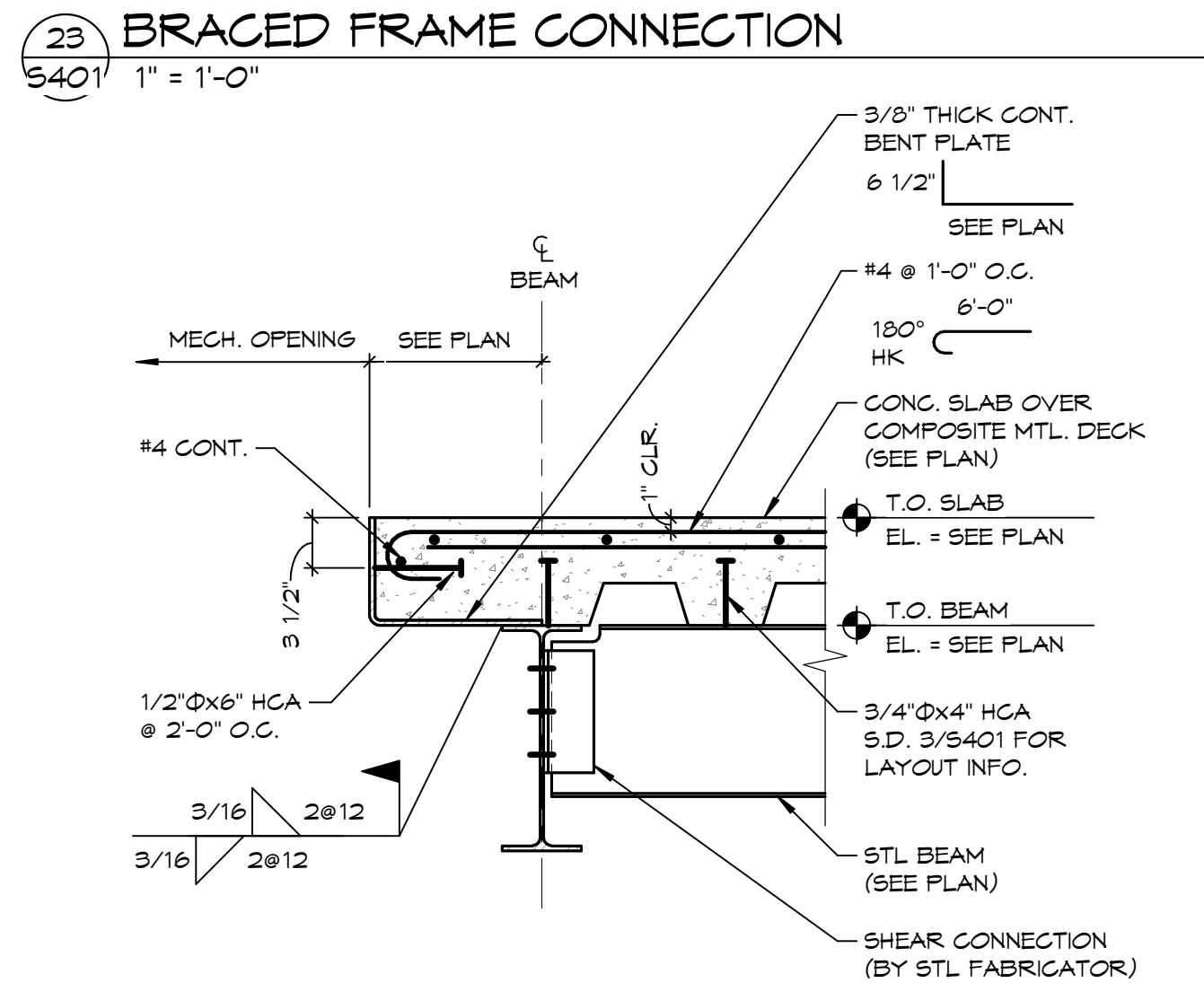
2 PILE CAP TENSION DWL DETAIL
1/2" = 1'-0"



1 GRADE BEAM SECTION
1/2" = 1'-0"



12 BEAM - BEAM CONNECTION
S401 1" = 1'-0"

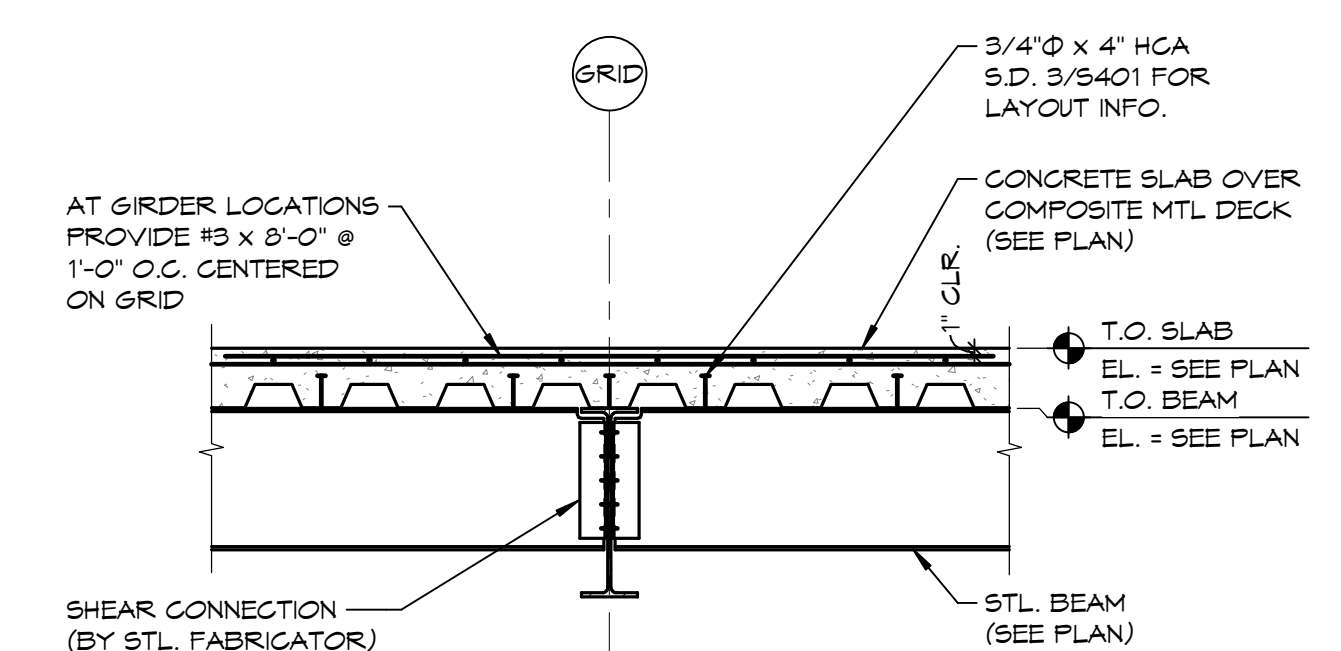


22 SLAB EDGE DETAIL
S401 1" = 1'-0"

17 NOT USED
S401 1" = 1'-0"

16 BEAM - COLUMN CONNECTION
S401 1" = 1'-0"

21 NOT USED
S401 1" = 1'-0"

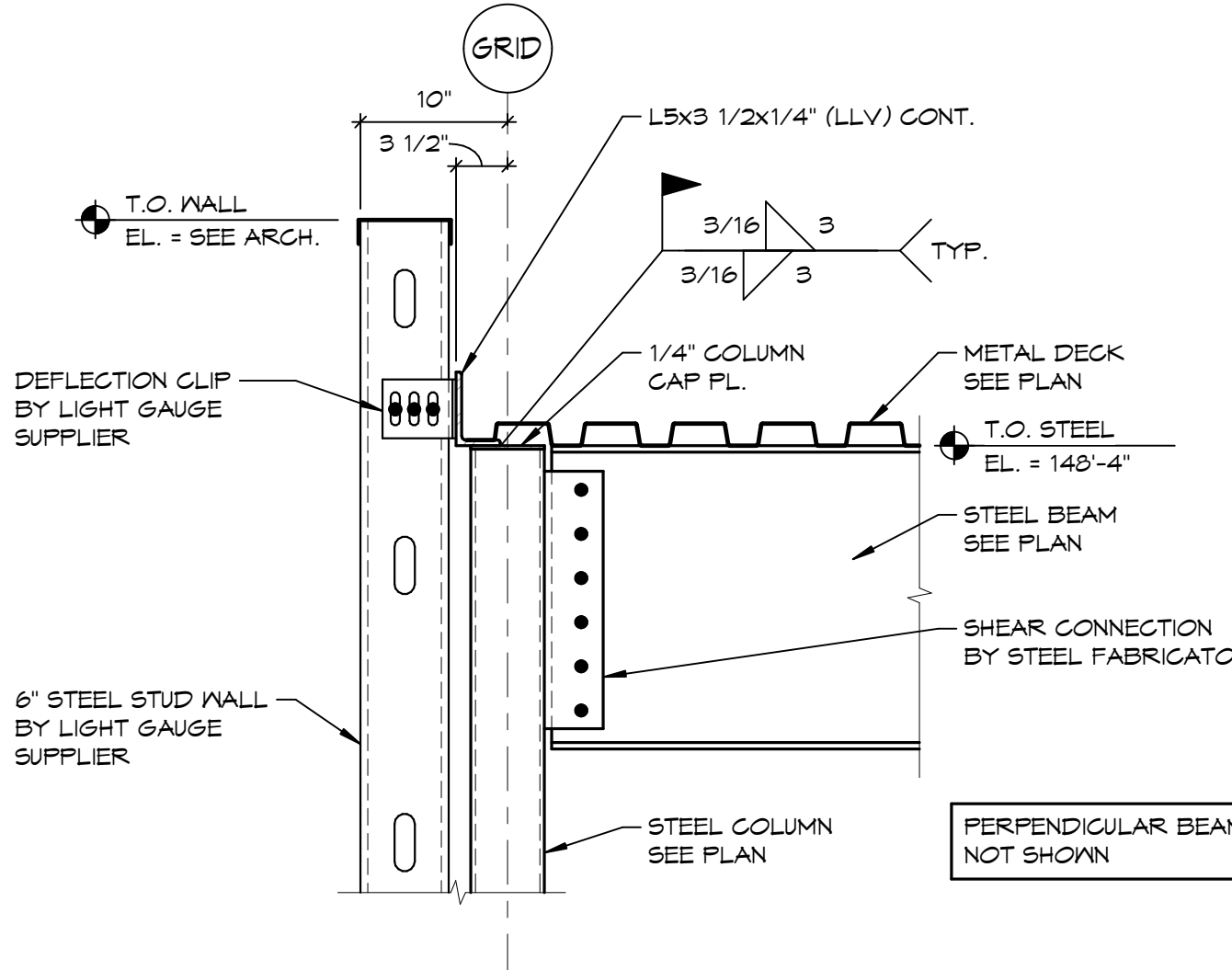


20 BEAM - BEAM CONNECTION
S401 1/2" = 1'-0"

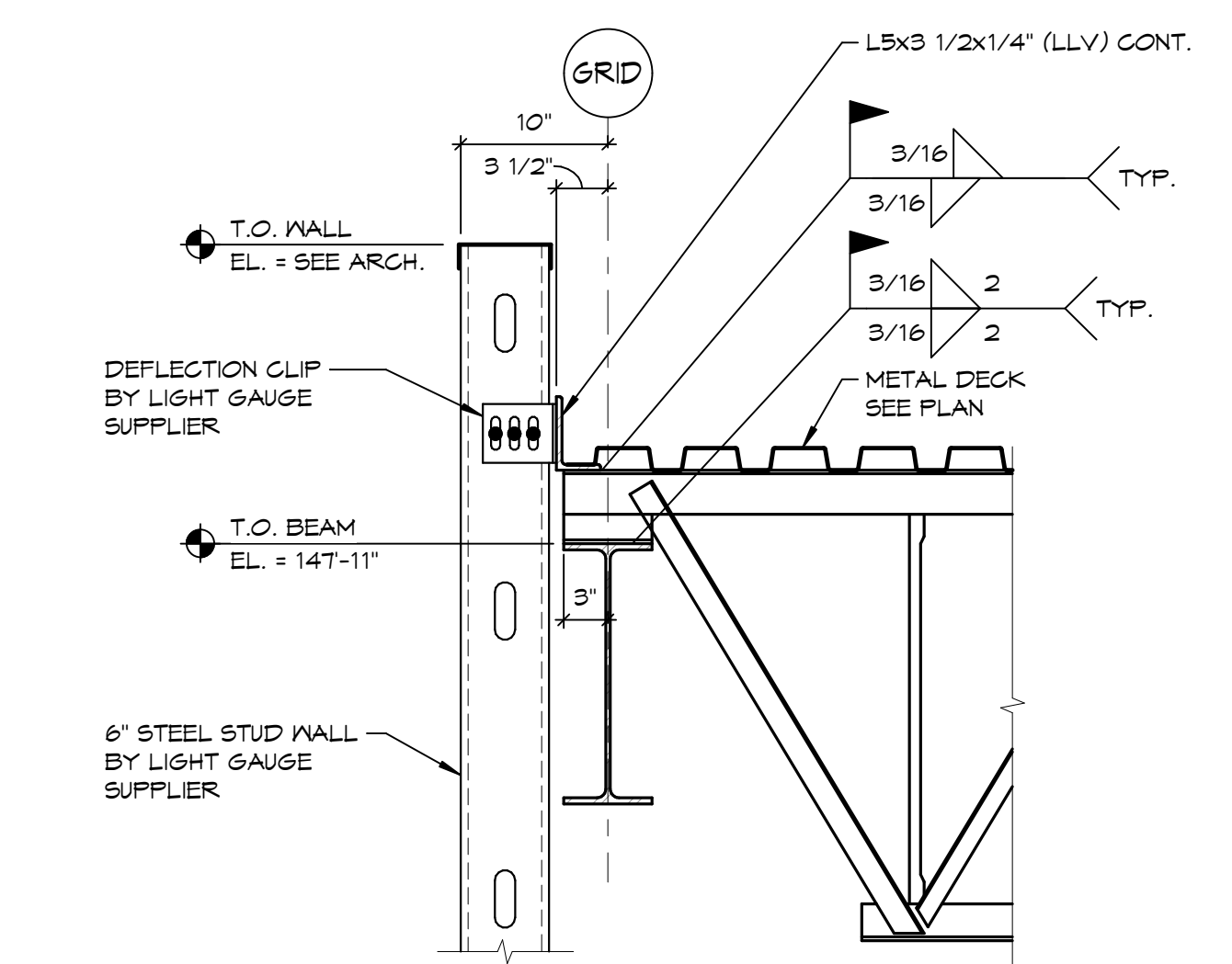
19 BEAM - COLUMN CONNECTION
S401 1" = 1'-0"

14 CONNECTION @ EX. CONCRETE BEAM
S401 1" = 1'-0"

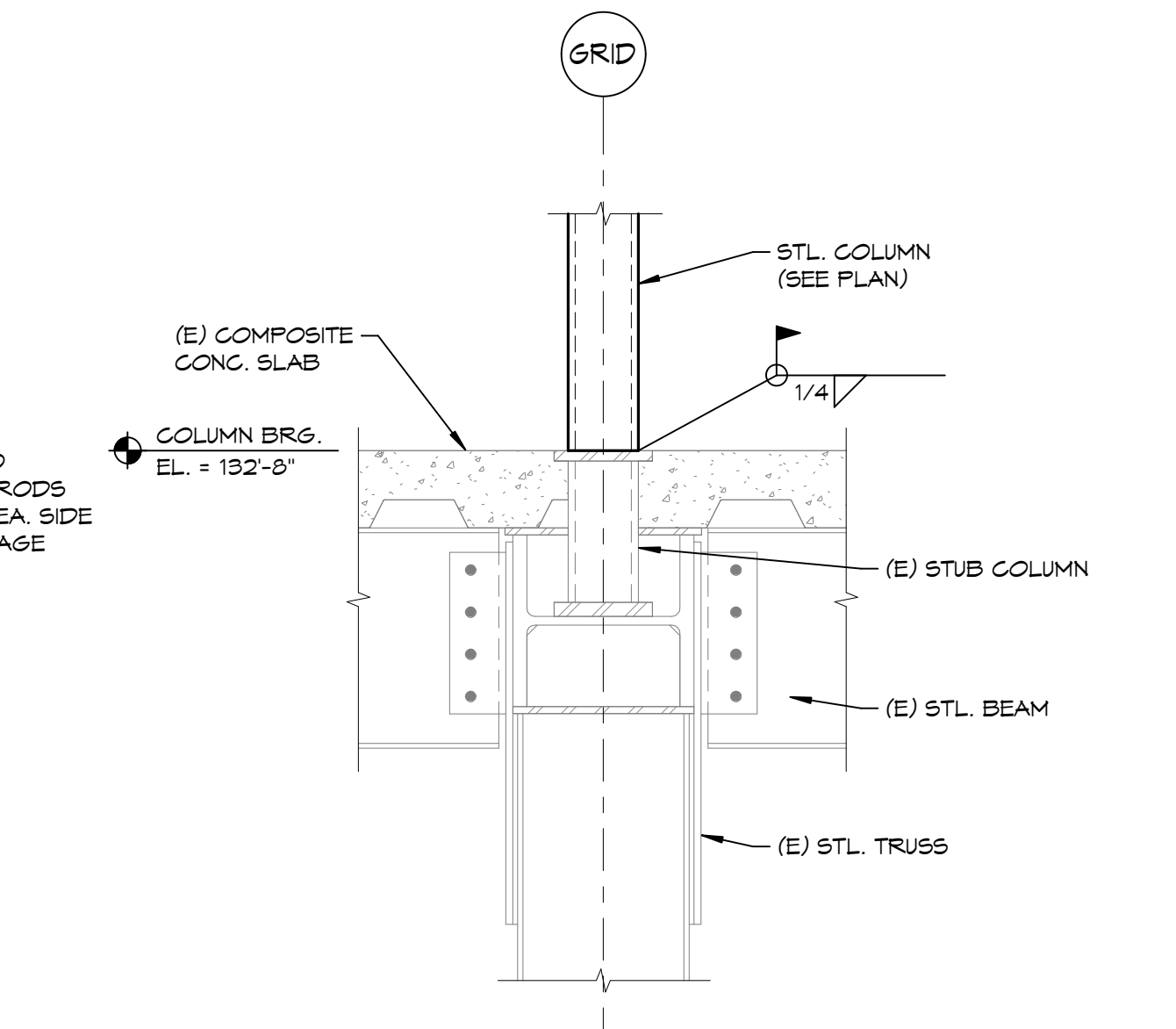
13 NOT USED
S401 1" = 1'-0"



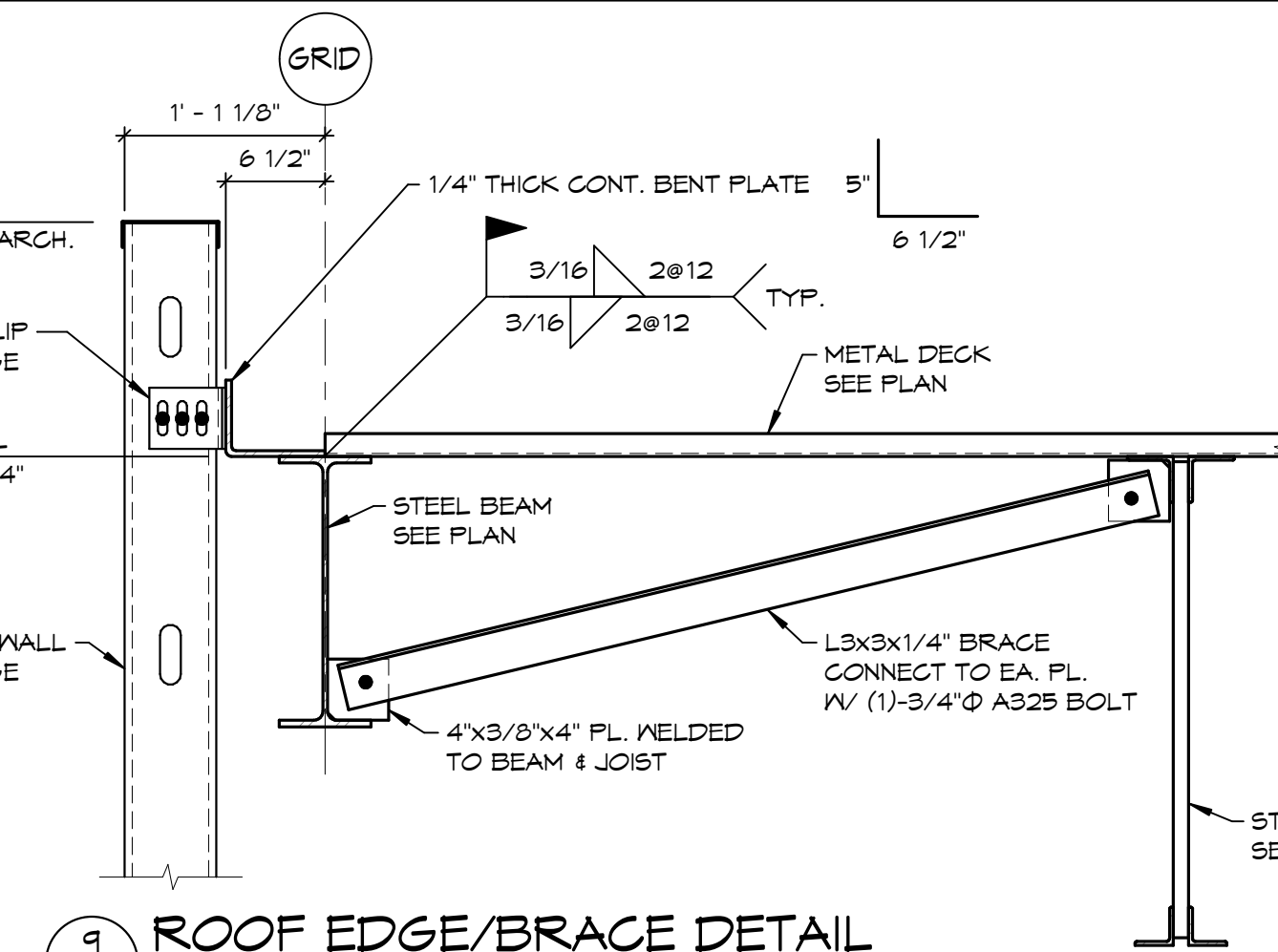
12 STEEL BEAM - COLUMN CONNECTION
S401 1" = 1'-0"



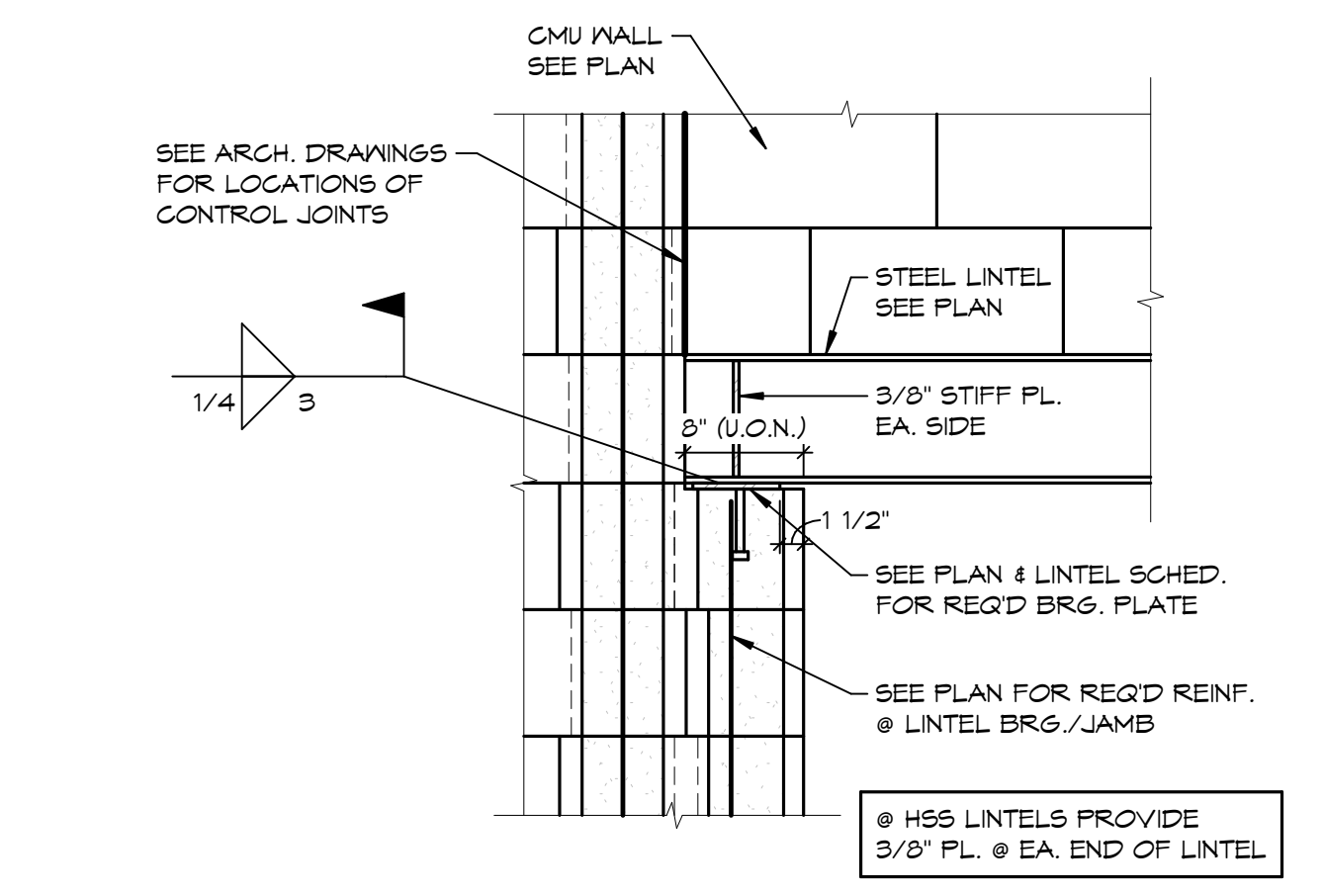
11 STEEL JOIST BEARING DETAIL
S401 1" = 1'-0"



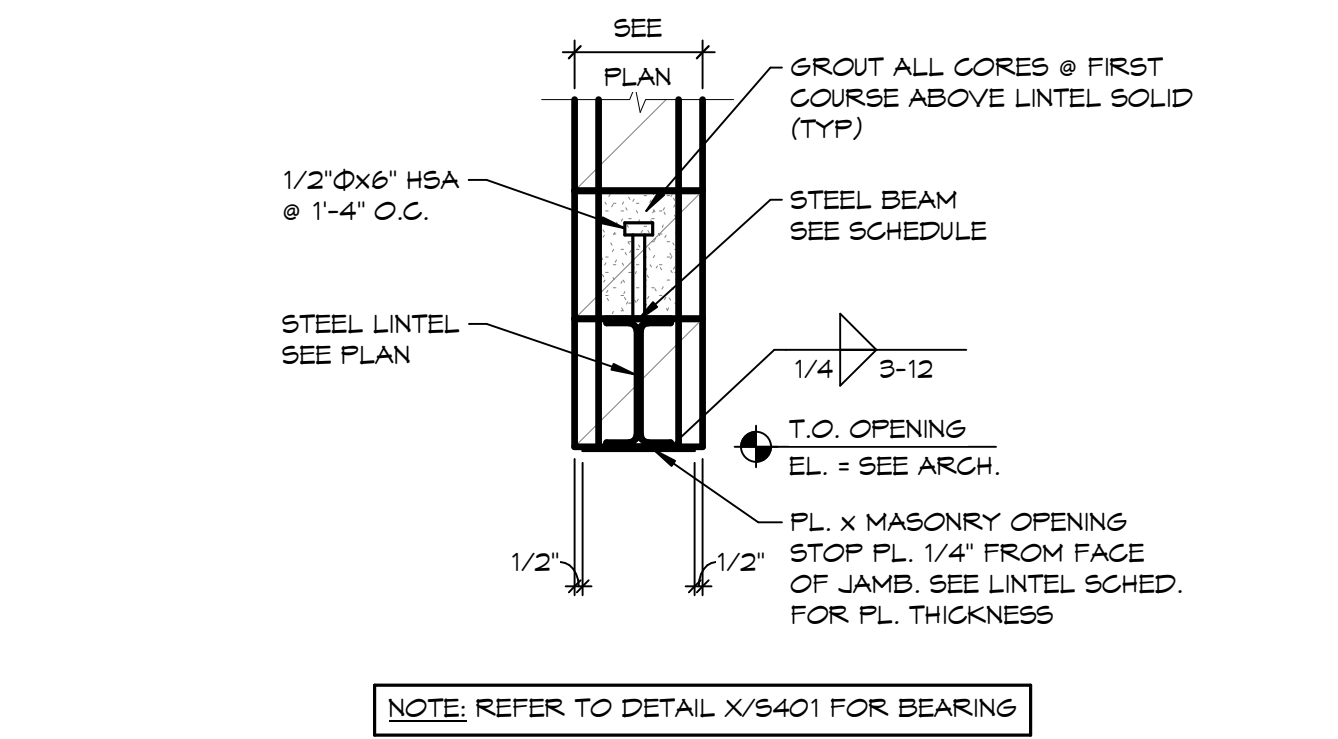
10 COLUMN SUPPORT DETAIL
S401 1" = 1'-0"



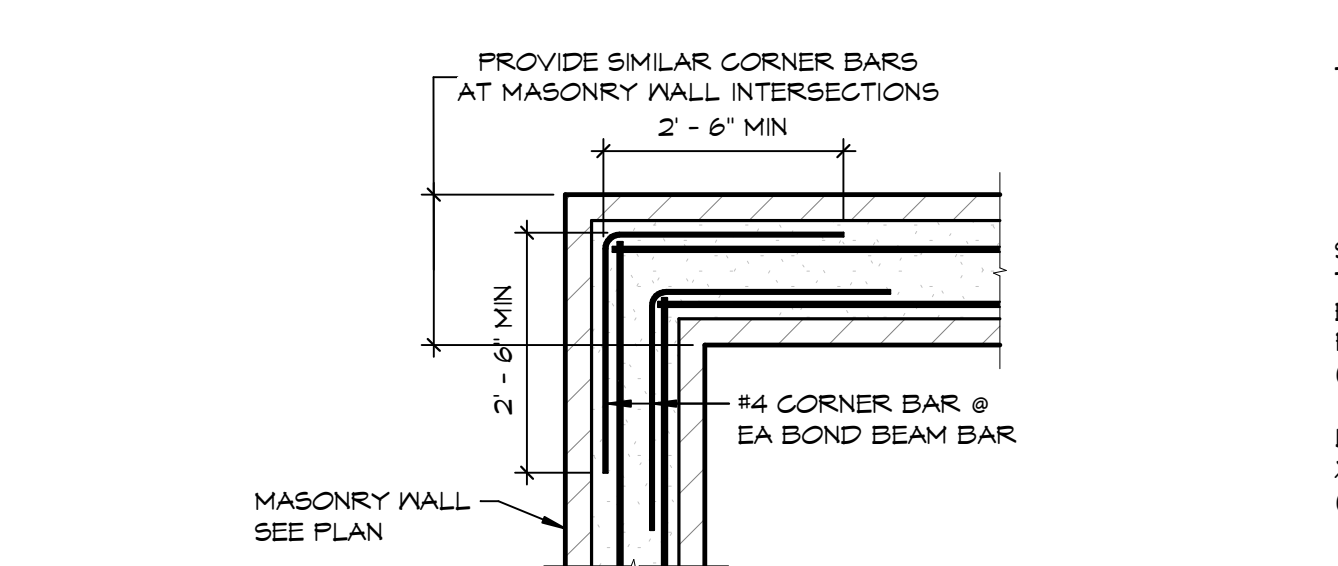
9 ROOF EDGE/BRACE DETAIL
S401 1" = 1'-0"



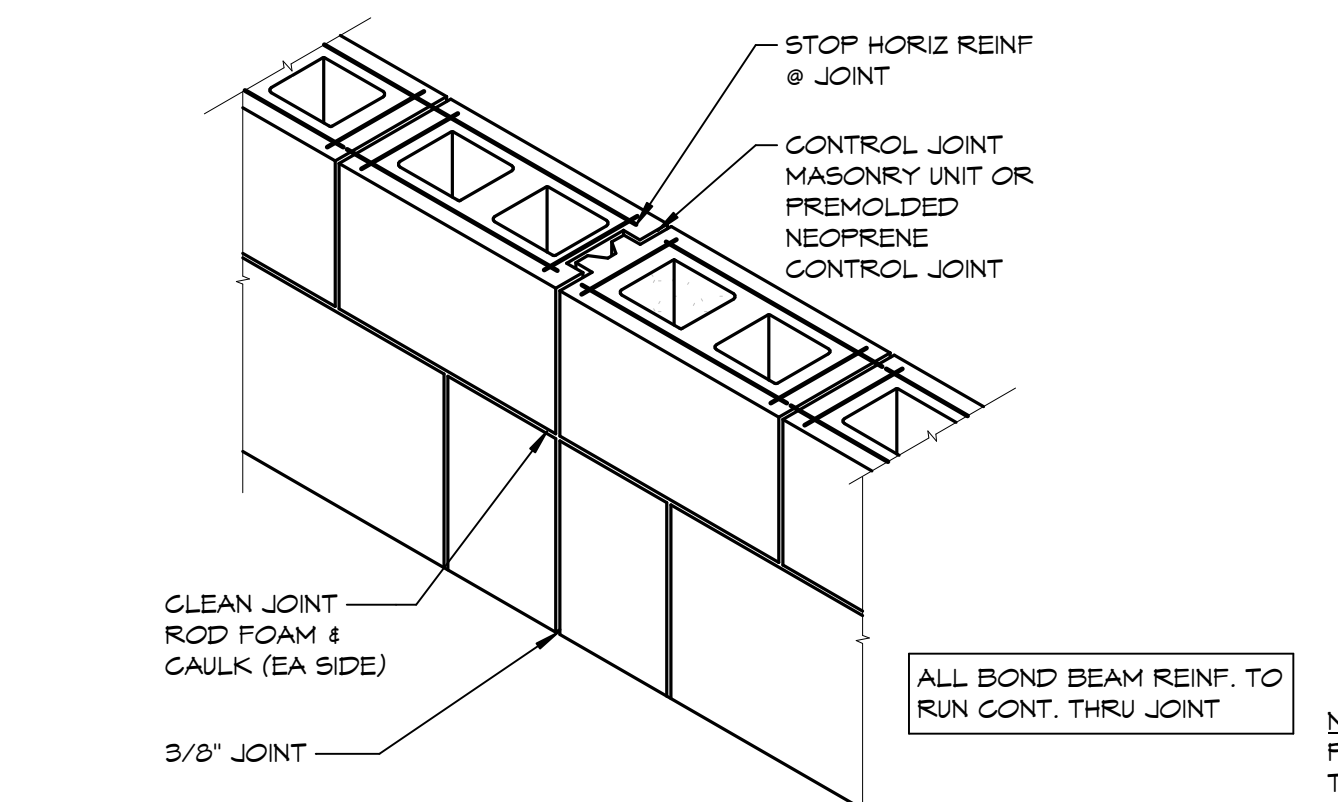
8 STEEL LINTEL BRG. DETAIL
S401 1" = 1'-0"



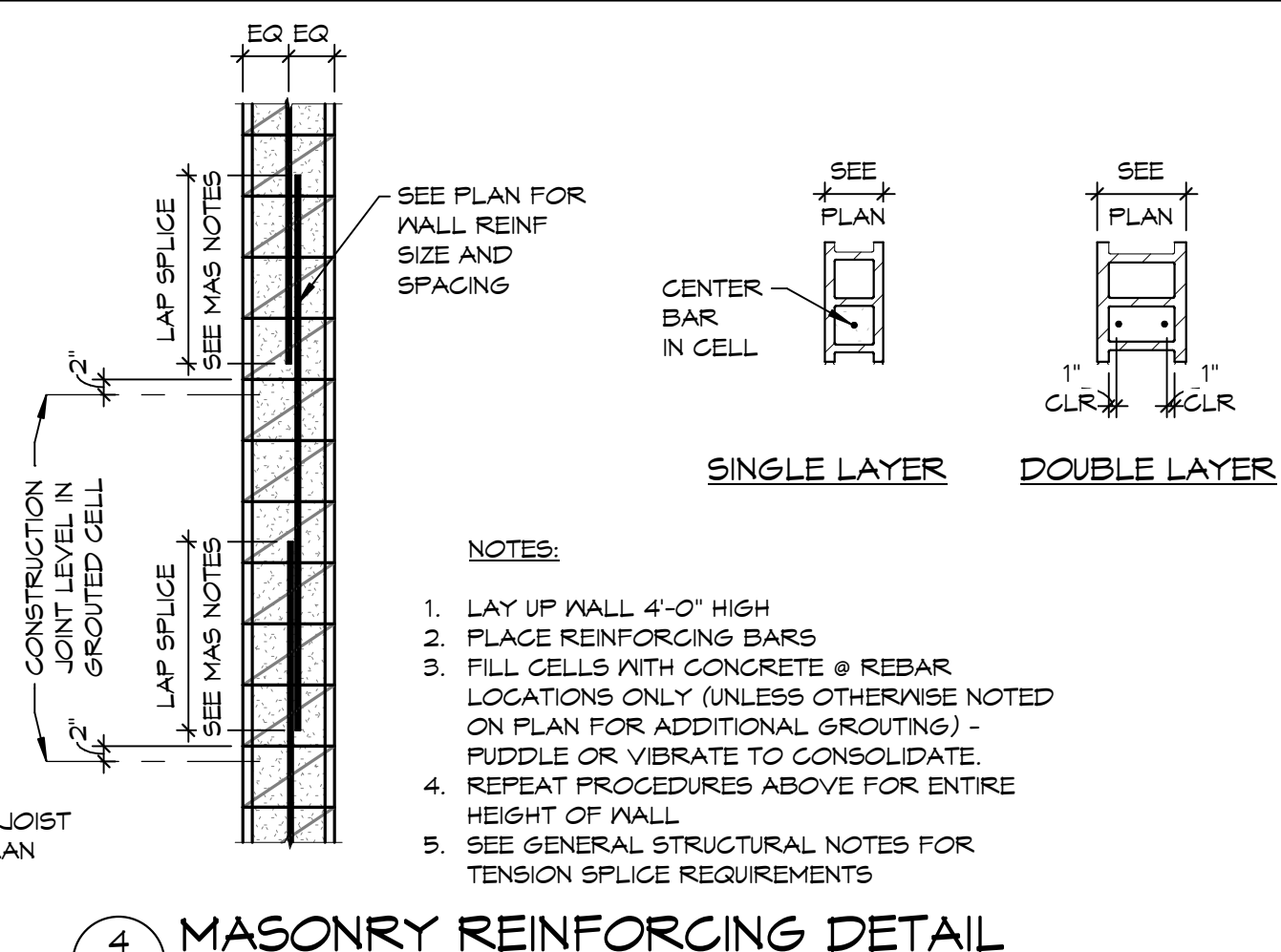
7 LINTEL DETAIL
S401 1" = 1'-0"



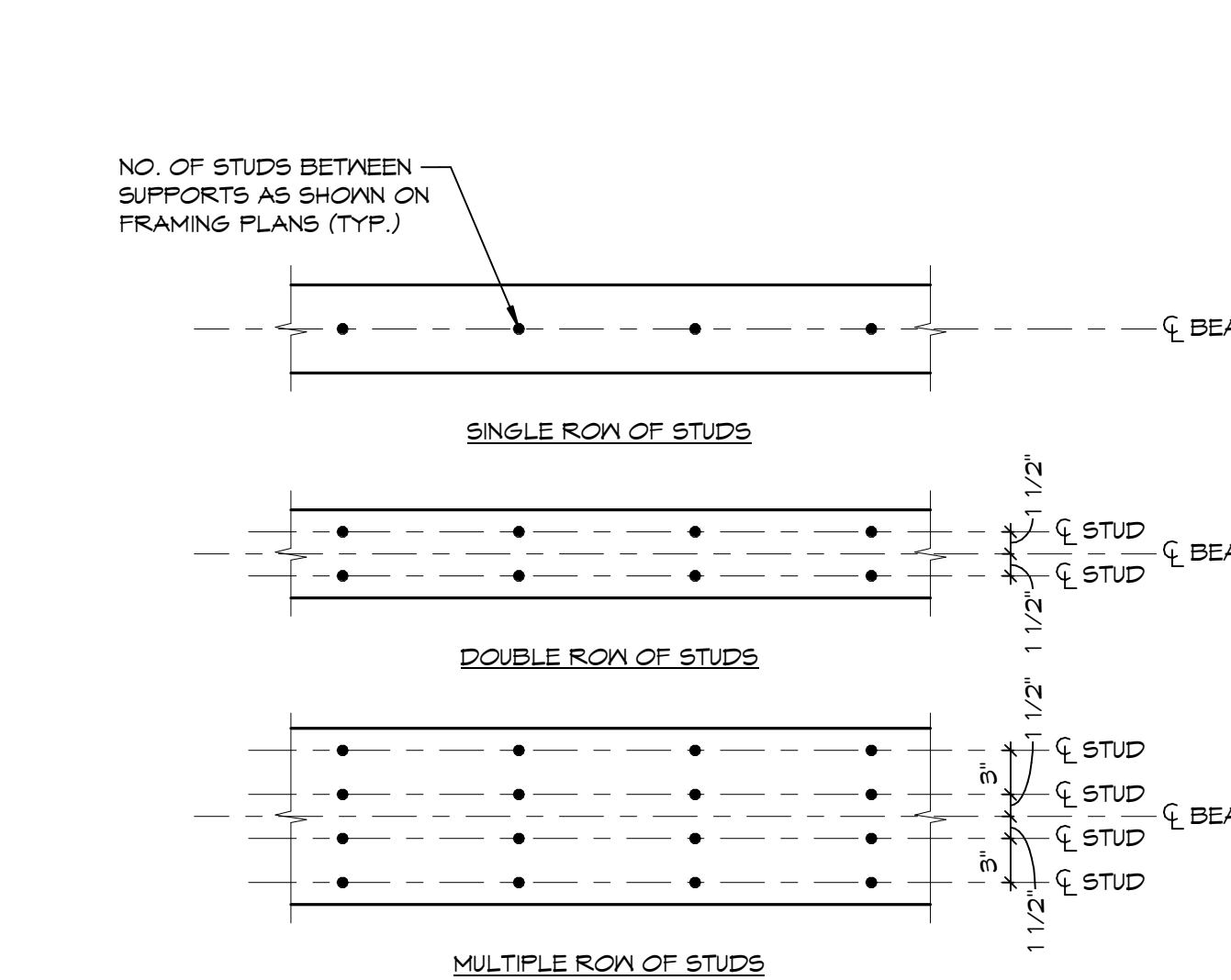
6 MASONRY CORNER BAR DETAIL
S401 1/2" = 1'-0"



5 MASONRY CONTROL JOINT DETAIL
S401 1/2" = 1'-0"

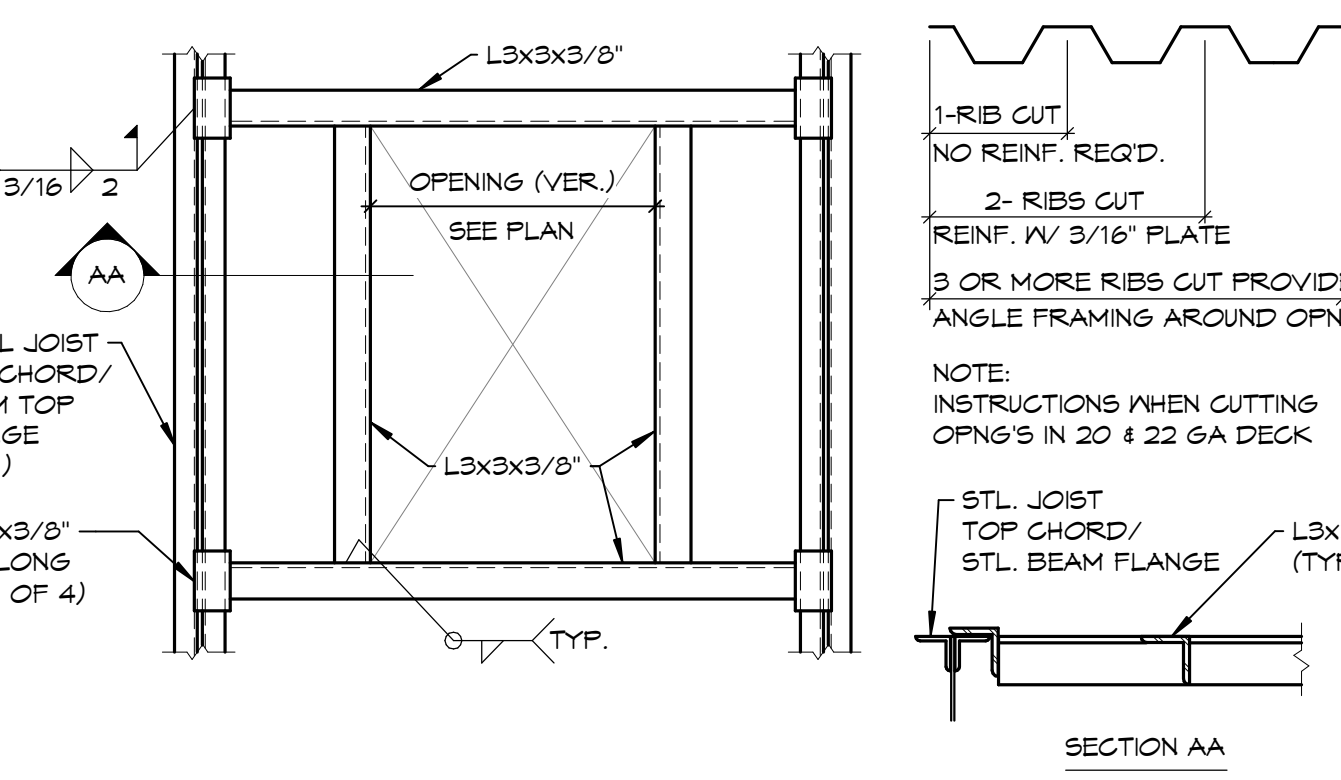


4 MASONRY REINFORCING DETAIL
S401 1/2" = 1'-0"

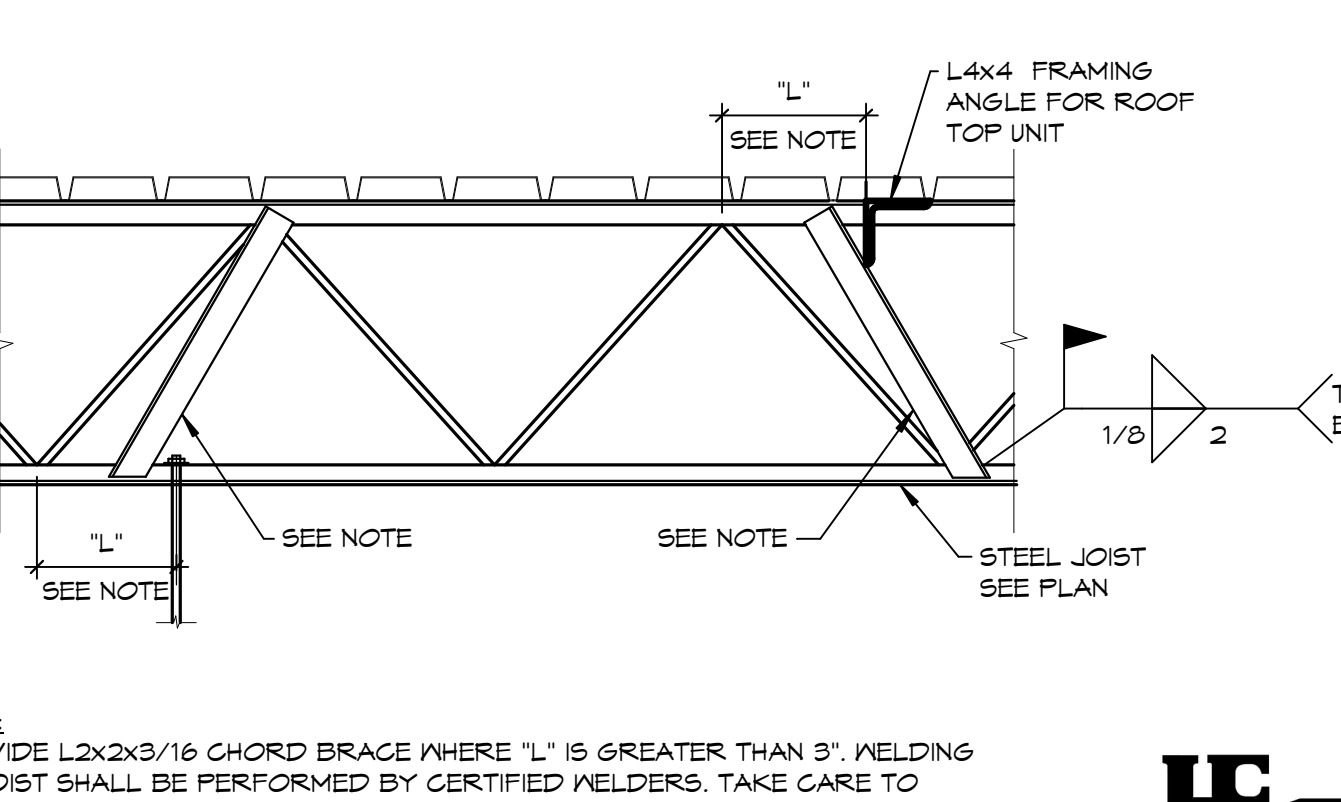


- NOTE:
1. PLACE STUDS BETWEEN SUPPORTS WITH AN EQUAL NUMBER. (ARRANGE SYMMETRICALLY ABOUT THE BEAM CENTERLINE AXIS).
 2. PLACE THE STUDS IN THE FOLLOWING SEQUENCE UNTIL THE NUMBER DEFINED ON THE DRAWINGS ARE USED.
 - A. DETERMINE HOW MANY ROWS ARE REQUIRED BASED ON A STUD SPACING OF 1'-0" FOR DECK FLUTES PERPENDICULAR TO THE BEAM OF 6" FOR DECK FLUTES PARALLEL TO THE BEAM.
 - B. IF ONE ROW OF STUDS IS REQUIRED, PLACE STUDS 2'-0" O.C. FROM BEAM ENDS TOWARD BEAM CENTERLINE (CENTER STUD IN FLUTE WHERE APPLICABLE).
 - C. PLACE REMAINDER OF STUDS AT 2'-0" O.C., STARTING 1'-0" FROM BEAM ENDS. (1'-0" SPACING OF STUDS WILL RESULT).
 - D. WHERE DECK FLUTES ARE PARALLEL TO BEAM AND STUDS ARE STILL REMAINING AFTER STEP C, PLACE THE REMAINDER OF THE STUDS IN SUCH A WAY AS TO END UP WITH A MINIMUM OF 6" SPACING STARTING FROM THE ENDS OF THE BEAM.
 - E. IF MORE THAN ONE ROW IS REQUIRED, PLACE ALL FULL ROWS AT THE MINIMUM (6" OR 1'-0") SPACING, PLACE THE LAST ROW, OR ROWS, IN ACCORDANCE WITH STEPS B, C, AND D, NOTING THE REQUIREMENT TO ARRANGE STUDS SYMMETRICALLY ABOUT BEAM CENTERLINE AXIS.
 3. STUDS ON CANTILEVERING SEGMENTS SHALL BE PLACED ON BEAM CENTERLINE AXIS AT 1'-0" O.C. ARE NOT INCLUDED IN THE NUMBER OF STUDS GIVEN ON THE DRAWINGS.

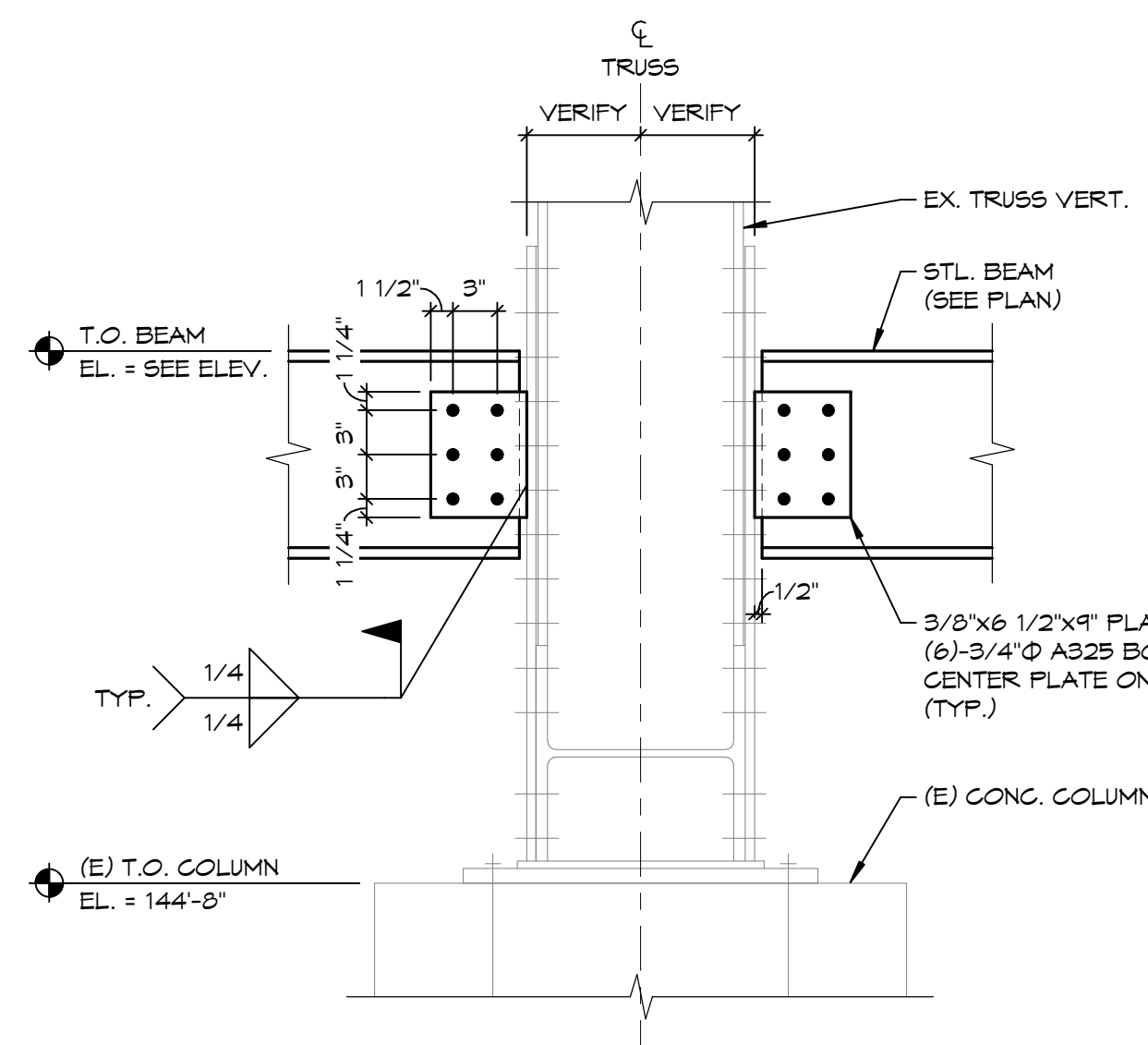
3 SHEAR STUD PLACEMENT
S401 1" = 1'-0"



2 ANGLE FRAMING @ ROOF OPENING
S401 1" = 1'-0"



1 JOIST REINFORCING DETAIL
S401 1" = 1'-0"

[illegible]

1/2"x5 1/2" WIDE PLATE
W/ (4)-3/4" Ø A325 BOLTS

1/4" FULL DEPTH
STIFFENERS NS/FS
CENTER ON BEAM
BELOW

T.O. BEAM
EL. = 112'-1"

1/4" STIFFENER PLATE
Ø EA. SIDE OF BEAM
CENTER BELOW BEAM ABOVE

1/4" (TYP. Ø EACH
SIDE OF
BEAM)

8"

YIELD LENGTH 4 SIZE
BY STL FABRICATOR

TYP N5/F5

G. COL.

STL BRACE
(SEE ELEV.)

GUSSET PLATE
(BY STL FABRICATOR)

STL COLUMN
(SEE PLAN)

WELD POINT

CONNECTION TO COLUMN
(BY STL FABRICATOR)

G/2

G/4

STL BEAM
(SEE PLAN)

YIELD LENGTH & SIZE
BY STL. FABRICATOR

TYP. NS/FB

C.C.O.L.

STL. COLUMN
(SEE PLAN)

WORK-POINT

STL. BRACE
(SEE ELEV.)

GUSSET PLATE
(BY STL.
FABRICATOR)

1'-0"

10"

(E) T.O. SLAB
EL. = 114'-8"

S.D. 6, 7 & 8/S402
FOR INFO, NOT
NOTED HERE

EX. CONCRETE FAN & JOIST
FLOOR STRUCTURE

Diagram illustrating a connection detail for a column-to-beam joint. The connection includes a **3/8" FULL DEPTH STIFFENER NS/FS (TYP)** and a **GUSSET PLATE (BY STL. FABRICATOR)**. A **STL. BRACE (SEE ELEVATIONS)** is shown attached to the column. The **WELD LENGTH & SIZE BY STL. FABRICATOR** is indicated. The connection is labeled **WORK-POINT**. The **T.O. BEAM EL. = SEE ELEV.** is noted. The connection is labeled **TYP. NS/FS**.

BEAM SIZE # OF BOLTS

N12 & N14	3
N16	4
N21	6

3/8"x4" PLATE N/ 3/4"Ø
A325 BOLTS, SEE TABLE
FOR 1"Ø BOLTS REQ'D

3/4"x1'-2"x1'-8" PLATE N/ (6)-1"Ø ASTM F1554 GR. 36
ANCHOR BOLTS, DRILL & ADHERE TO EX. CONC.
COLUMN USING HILTI HY-200 ADHESIVE, PROVIDE 10"
GAGE DISTANCE BETWEEN ANCHORS & PROVIDE 1'-0"
EMBED. INTO CONC. COLUMN

(E) CONC. COLUMN

T.O. BEAM
EL. = SEE PLAN

1 1/4"
5" SPACING
1 1/4"

1/4" 1/4"

1 1/2"

STL. BEAM
(SEE PLAN)

6" 6" 6" 6"

Diagram illustrating the connection of a stiffener plate to a main beam, showing various components and dimensions:

- 3/8" FULL DEPTH STIFFENER PLATE NS/FS**: The main stiffener plate.
- STL BEAM (SEE PLAN)**: The main structural beam.
- T.O. BEAM EL. = SEE PLAN**: Top of beam elevation.
- 3/8" FULL DEPTH STIFFENER PLATE NS/FS**: The main stiffener plate (repeated).
- GUSSET PLATE (BY STL FABRICATOR)**: The gusset plate connecting the stiffener to the beam.
- STL HSS BRACE (SEE ELEVATIONS)**: The structural steel high-strength steel brace.
- IF BRACE ANGLES BECOME TOO SHALLOW STL FABRICATOR HAS THE OPTION TO PROVIDE (2) CONNECTIONS SIM. TO THAT SHOWN IN DETAIL BA' INSTEAD OF SINGLE GUSSET AS SHOWN HERE**: Note regarding alternative connection options for shallow brace angles.
- BRACE**: The brace member.
- BRACE**: The brace member (repeated).
- TYP NS/FS**: Typical notation for non-structural steel.
- *YIELD LENGTH 4' 0" BY STL FABRICATOR**: Note regarding the yield length of the brace.

Diagram illustrating the elevation view of a column-beam connection. Key components and labels include:

- COL.**: Column
- 1/4" CAP PLATE**: Cap plate on the column
- CONNECTION TO COL. (BY STL. FABRICATOR)**: Connection detail to the column
- STL. BEAM (SEE PLAN)**: Steel beam
- T.O. BEAM EL. = SEE ELEV.**: Top of beam elevation
- WORK-POINT**: Point of application of the work point
- STL. BRACE (SEE ELEV.)**: Steel brace
- SUBSET PLATE (BY STL. FABRICATOR)**: Subset plate
- STL. COLUMN (SEE PLAN)**: Steel column
- YIELD LENGTH 4 SIZE BY STL. FABRICATOR**: Yield length detail
- TYP. N5/F5**: Typical reinforcement detail
- SHEAR CONNECTION (BY STL. FABRICATOR)**: Shear connection detail

(E) T.O. SLAB
EL. = 114'-0"

HSS 8x8 COLUMN
(SEE PLAN)

PROVIDE 45° BEVEL
@ FLANGE EDGE (TYP.)

3/4" x 6" x 1/4" FOR PLATES,
FASTENERS & ANGLES

OUTLINE OF 1'-0" CORE
THRU EX. FLOOR STRUCTURE

EX. CONCRETE PAN. & JOIST
FLOOR STRUCTURE

WHERE 1'-0" CORE FOR NEW
HSS COLUMN CUTS EX. JOIST
PROVIDE L6x6x3/4" ANGLES @
EA. SIDE OF COLUMN FOR
SUPPORT OF JOIST. PROVIDE
TEMP. SHORING OF CONCRETE
JOIST UNTIL NEW HSS COLUMN &
ANGLES ARE INSTALLED.
(ANGLES NOT REQUIRED WHERE
NO JOIST IS DAMAGED BY CORE -
FIELD VERIFY LOCATIONS)

TYP. S/16

TYP.

1/2" THICK PLATE, CUT TO FIT TIGHT TO COLUMN.
FASTEN TO EX. CONCRETE BY (7)-1/4"x8 x 2-3/4"
STAR HEAD TAPCON CONCRETE SCREWS AND ANCHORS
COUNTERSINK FLUSH W/ TOP OF PLATE. SLIDE
PLATE & HSS COLLAR OVER COLUMN PRIOR TO
INSERTING THRU EX. CONC. FLOOR.

- HSS 6x6 COLUMN
(SEE PLAN)
- 4 1/2" CHAMFER (TYP.)
- OUTLINE OF 1'-0" CORE THRU
EXISTING CONCRETE FLOOR
STRUCTURE BELOW FOR NEW
HSS COLUMN, CENTER CORE
ON COLUMN
- HSS 9x8(1/2)x2 1/2"
COLLAR
- HSS COLLAR TO
PLATE

Dimensions:
Overall width: 1' - 1 1/2"
Inner width: 1' - 7"
Vertical dimensions from top edge:
- 1/2" (plate thickness)
- 2 3/4" (gap)
- 2 3/4" (gap)
- 2 3/4" (gap)
Horizontal dimensions from center:
- 1 1/2" (to outer edge)
- 3" (to inner edge)
- 4" (core width)
- 4" (core width)
- 3" (to inner edge)
- 1 1/2" (to outer edge)

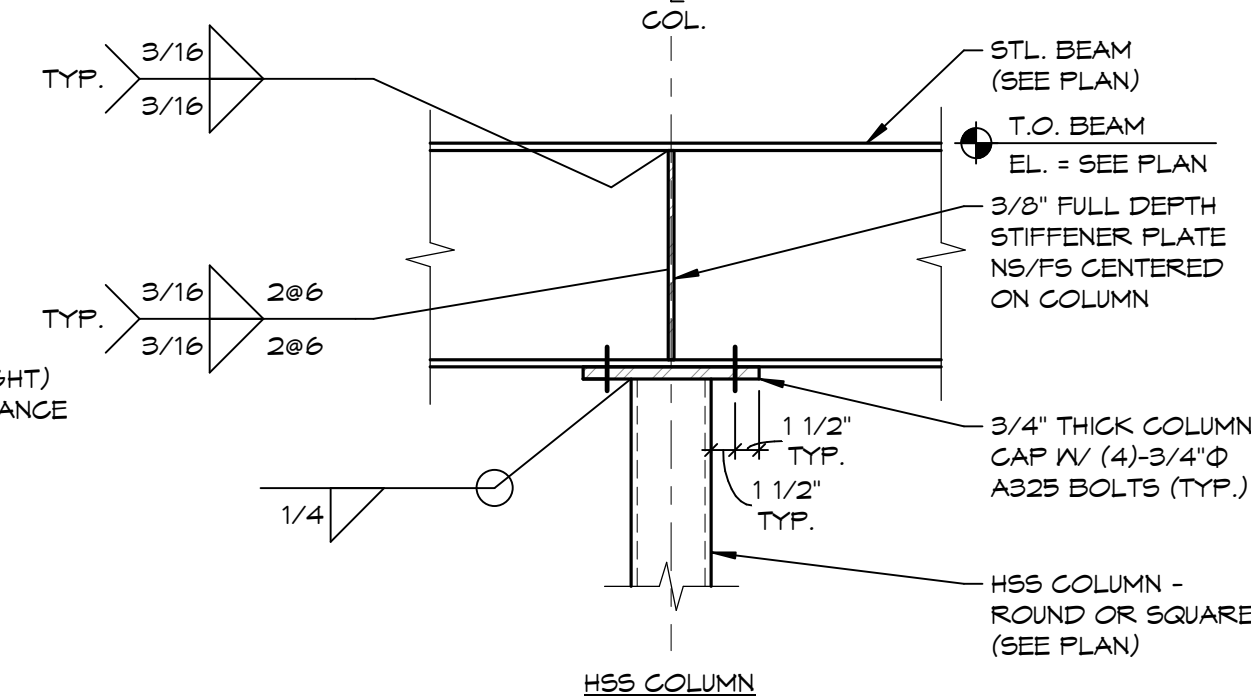
Diagram showing the elevation view of the column and beam connection. The grid is indicated by a circle labeled "GRID". The column is labeled "(E) HSS 5x5 STL. COLUMN". The beam is labeled "(E) STL. BEAM". The connection details include a "T.O. BEAM (SEE PLAN)" and a dimension of "2\"/>

Diagram showing the elevation view of the roof deck and structural elements. The roof deck is labeled "MTL. ROOF DECK (SEE PLAN)". The deck brg. is labeled "DECK BRG. EL. = 140'-4\"". The structural elements are labeled "L3x3x5/16\" CONT. ANGLE" and "(E) MTL. ROOF DECK". The structural elements are shown with a 1/4\" thick plate and a 286\" length. The structural elements are shown with a 1/4\" thick plate and a 286\" length. The structural elements are shown with a 1/4\" thick plate and a 286\" length.

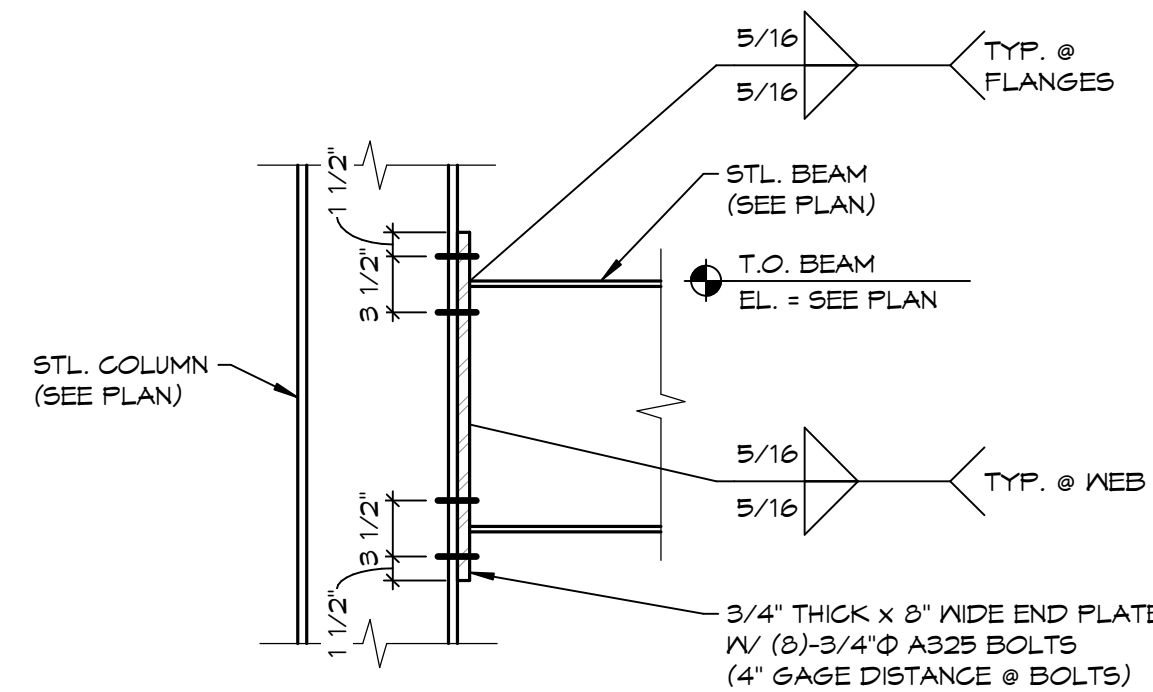
[illegible]

Diagram illustrating the removal of a precast cap plate from a column section. The diagram shows a cross-section of a column with a grid line at the top. The column is labeled "STL. COLUMN (SEE PLAN)". The top of the column is labeled "T.O. COLUMN EL. = SEE PLAN". The cap plate is labeled "(E) STL. COLUMN & CAP PLATE". A dimension of 1/4 is shown for the cap plate thickness. A note in a box states: "REMOVE PRECAST AS NEEDED TO ACCESS TOP OF (E) COLUMN".

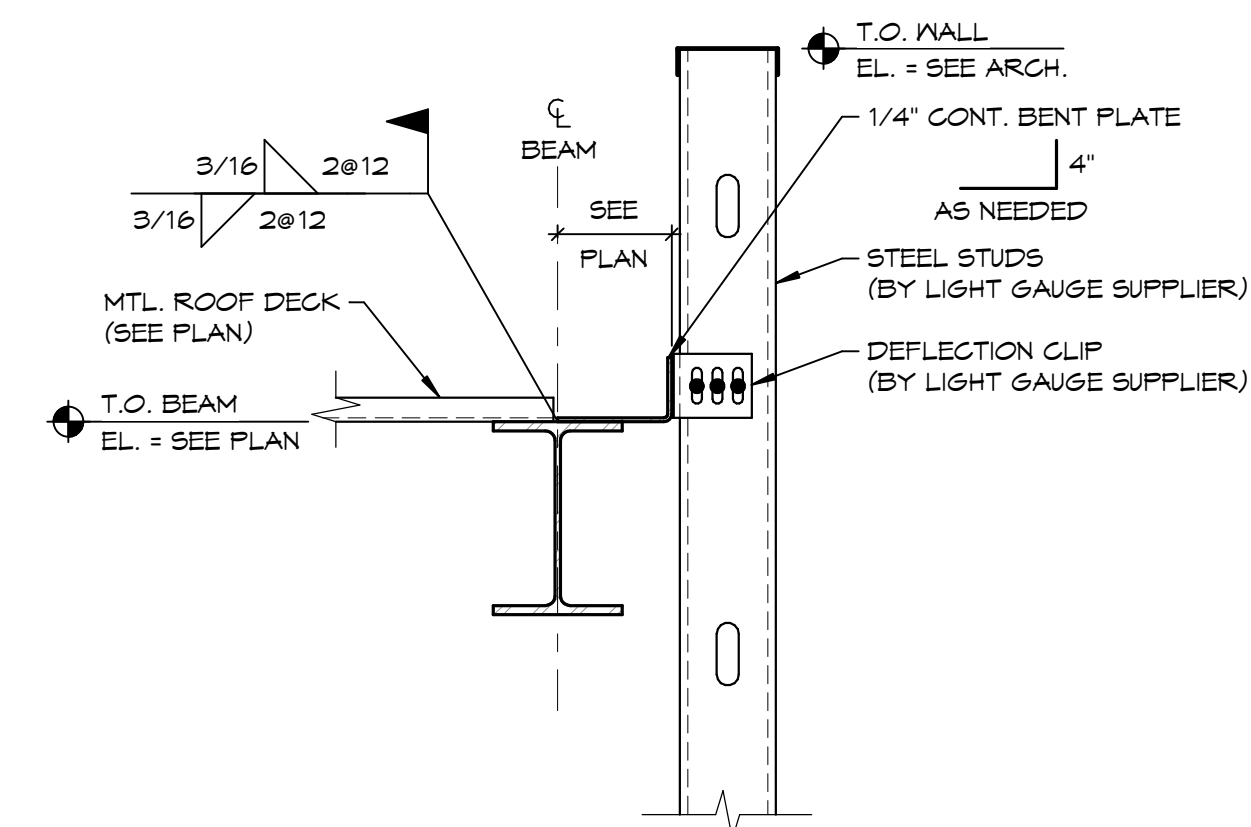
S402



10 MOMENT CONNECTION DETAIL
5403 1" = 1'-0"

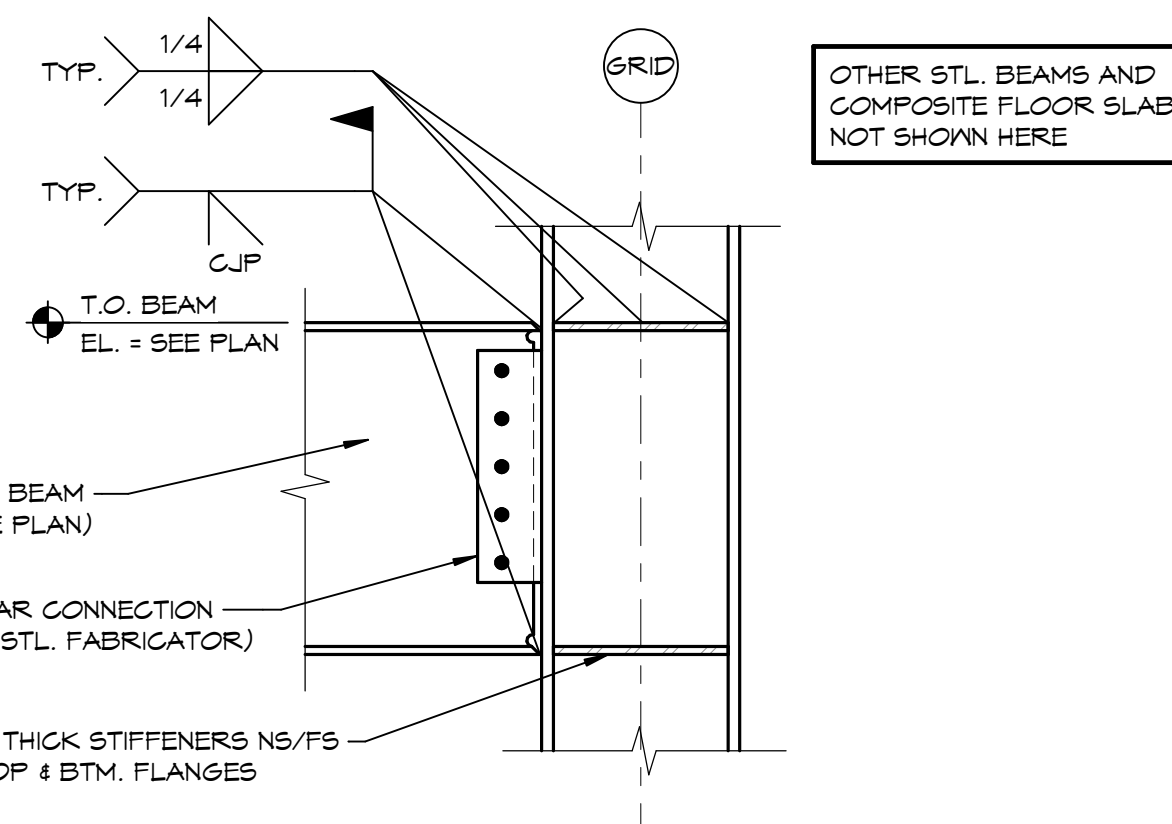


10 MOMENT CONNECTION DETAIL
5403 1" = 1'-0"

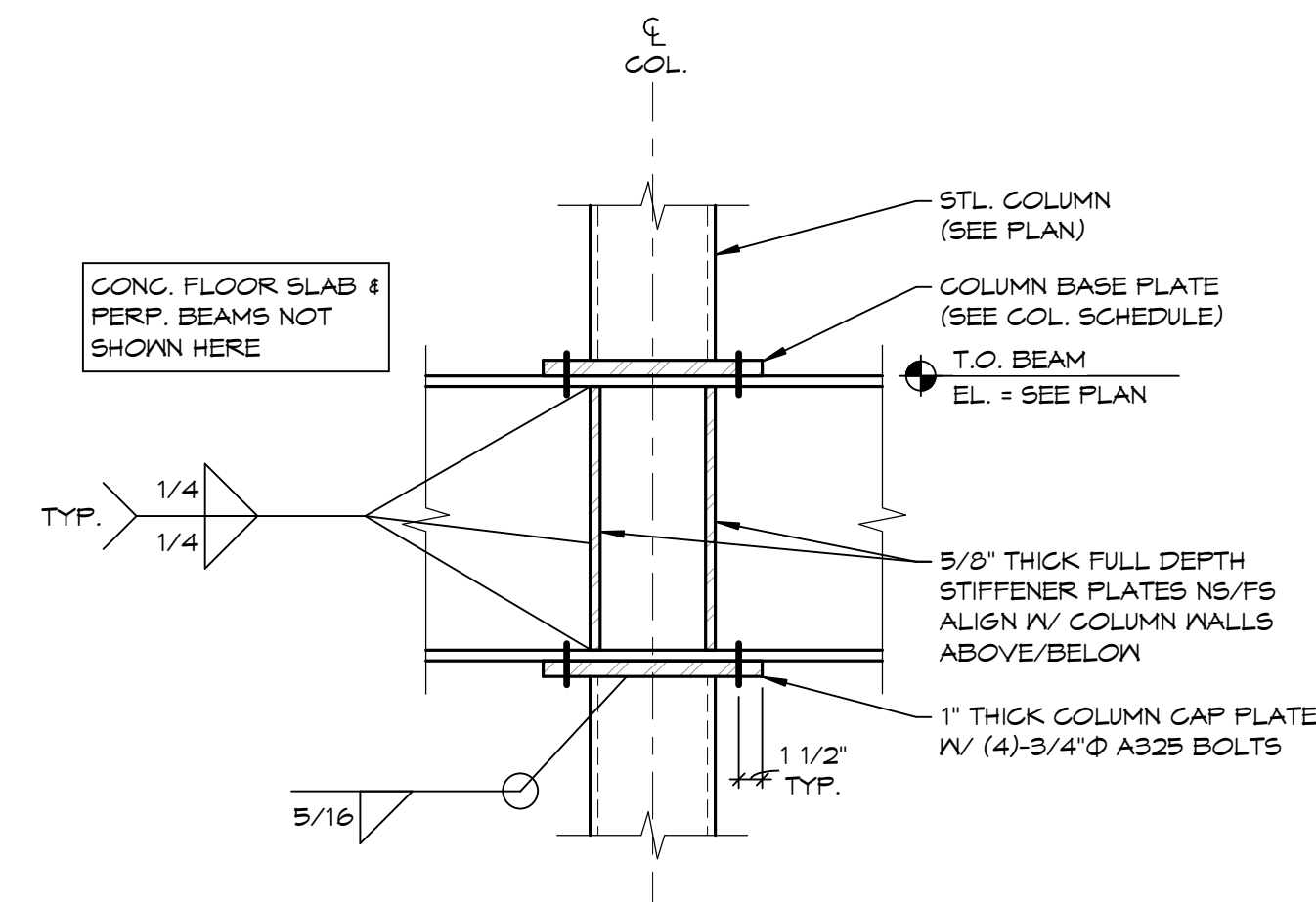


TYP. 1/4
 1/4
 TYP. 1/4
 1/4
 206
 206
 COL.
 3" 3"
 1" TYP.
 STL. BEAM (SEE PLAN)
 T.O. BEAM
 EL. = SEE PLAN
 1/2" FULL DEPTH STIFFENER PLATE NS/FS CENTERED ON COLUMN FLANGES (WHERE COL. IS TURNED 90° PROVIDE SINGLE PLATE NS/FS CENTERED ON WEB)
 WIDE FLANGE COLUMN (SEE PLAN)

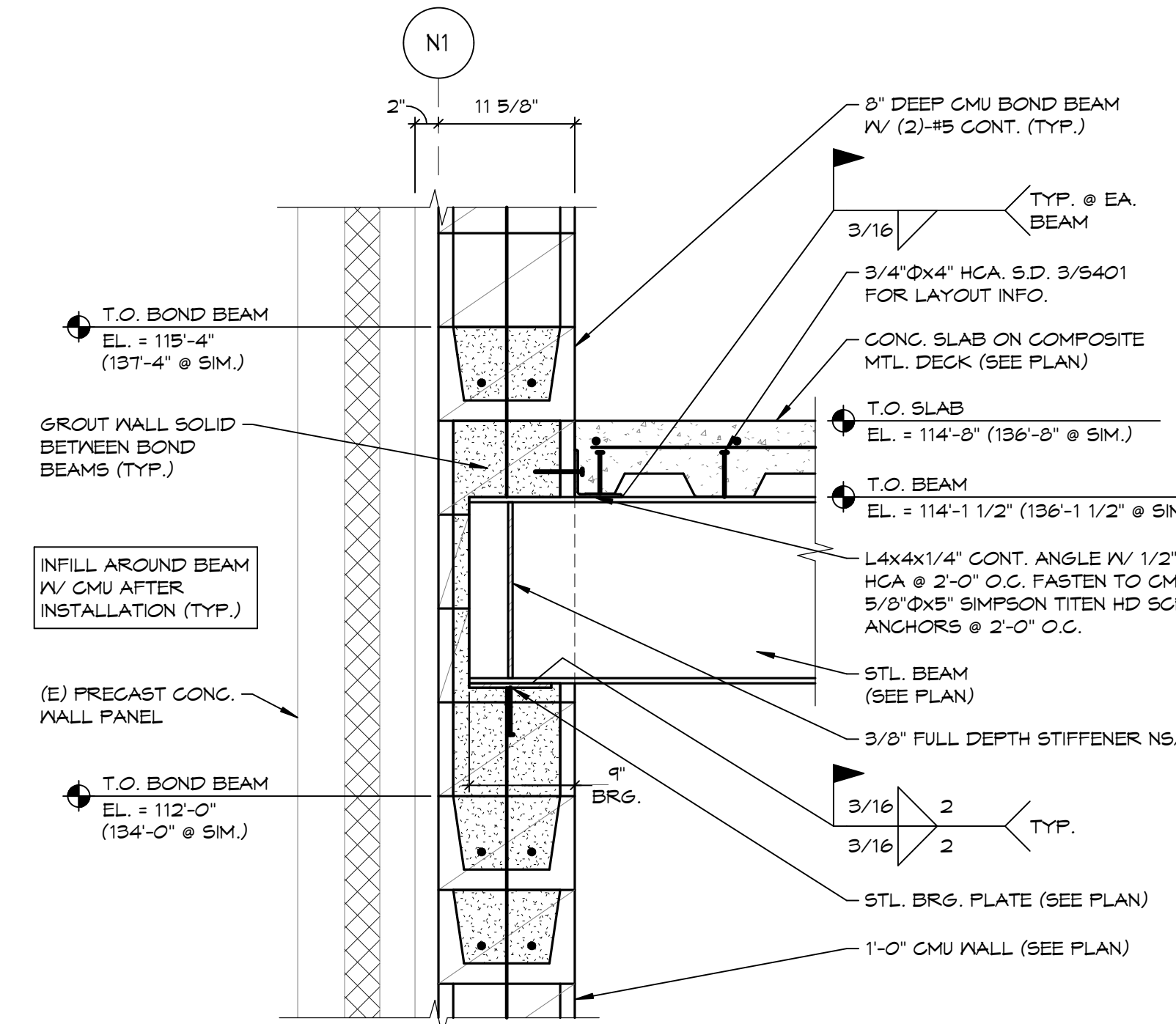
14 BEAM - COLUMN CONNECTION
5403 1" = 1'-0"



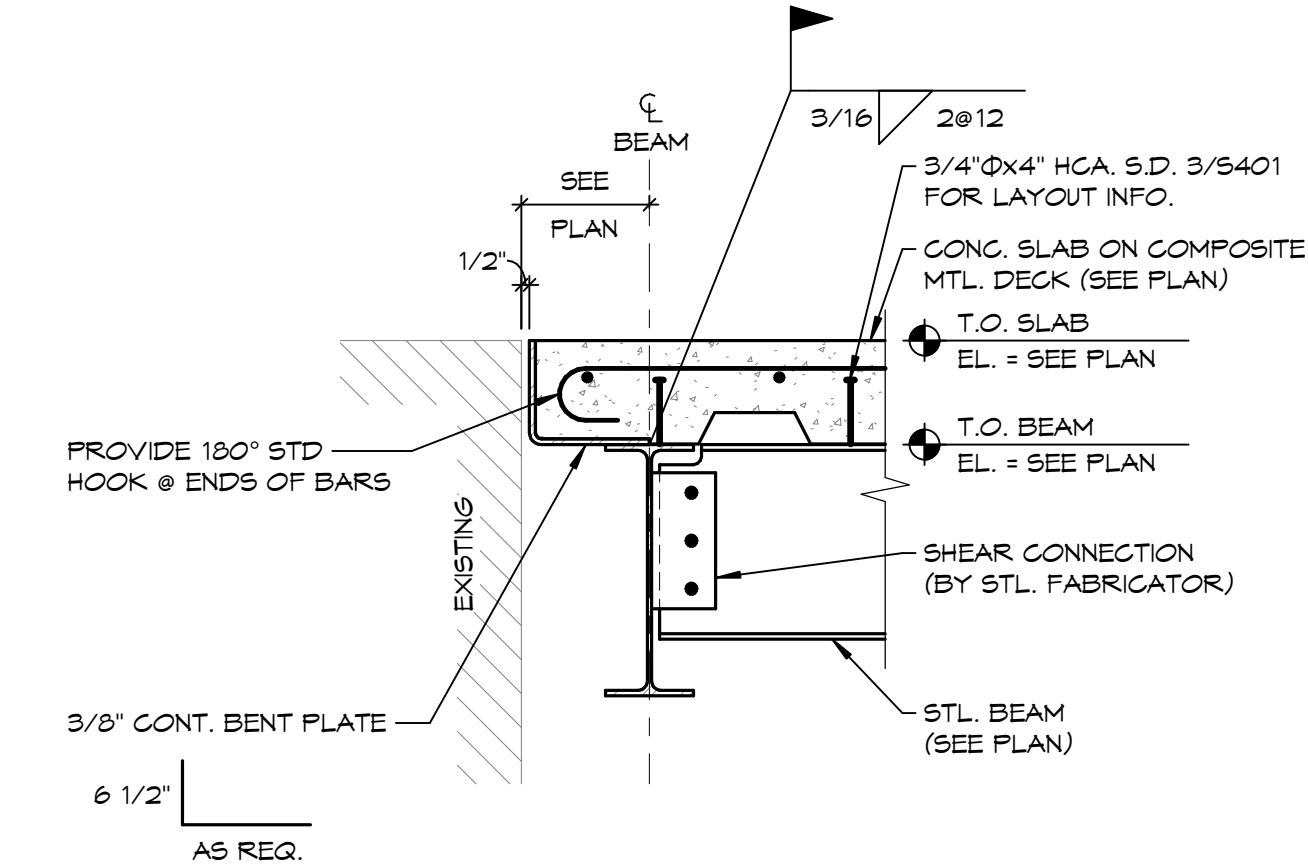
9 MOMENT CONNECTION DETAIL
5403 1" = 1'-0"



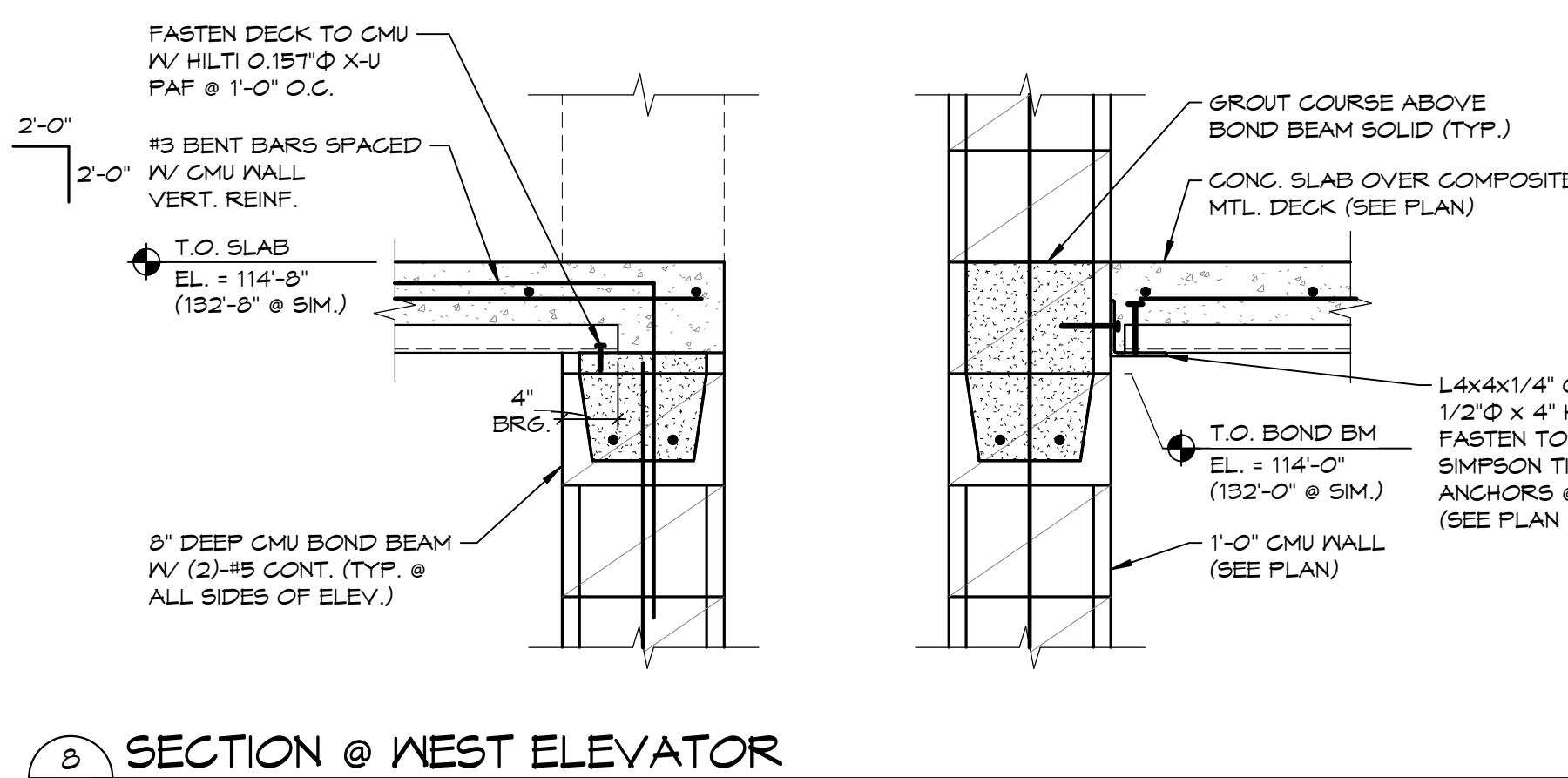
13 SECTION @ STACKED COLUMNS
5403 1" = 1'-0"



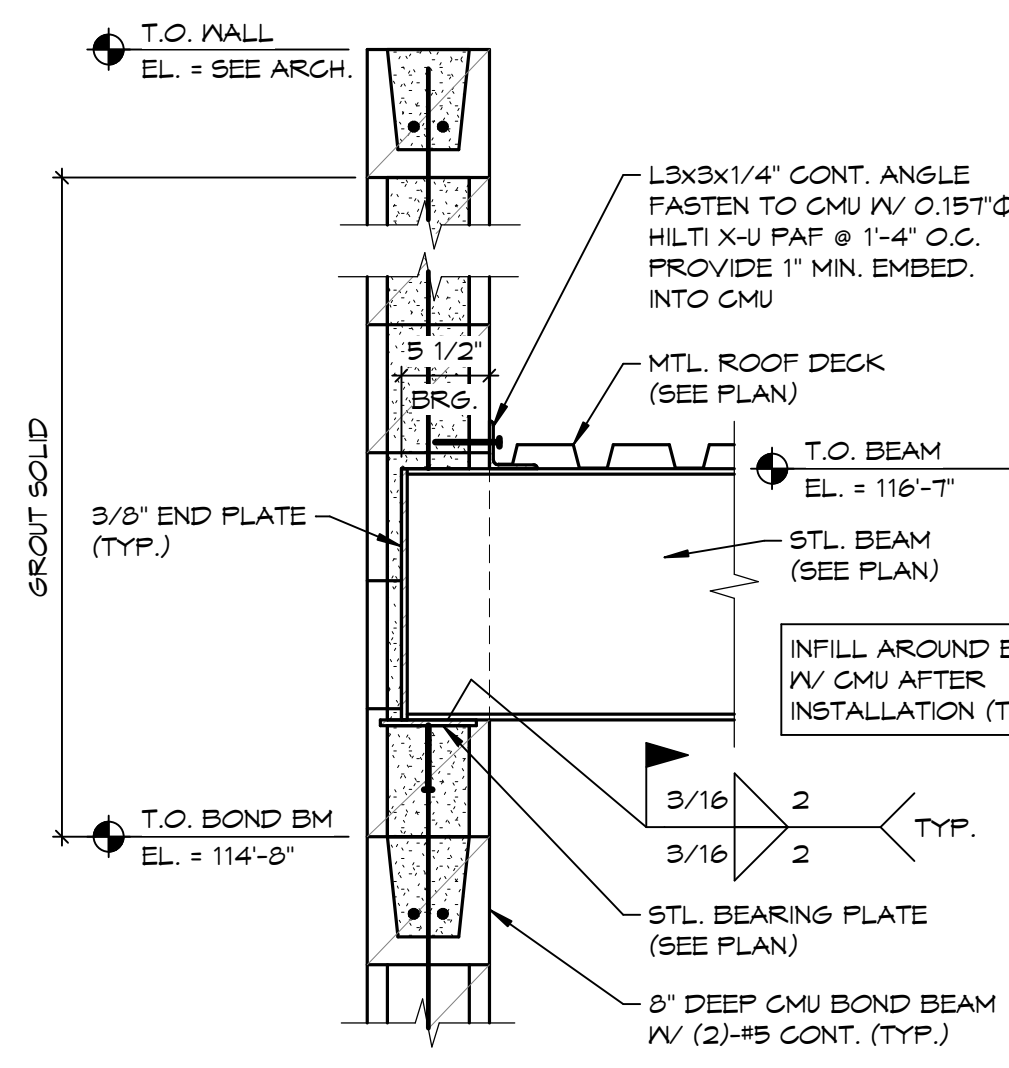
SECTION @ BEAM BRG. NEXT TO EXISTING



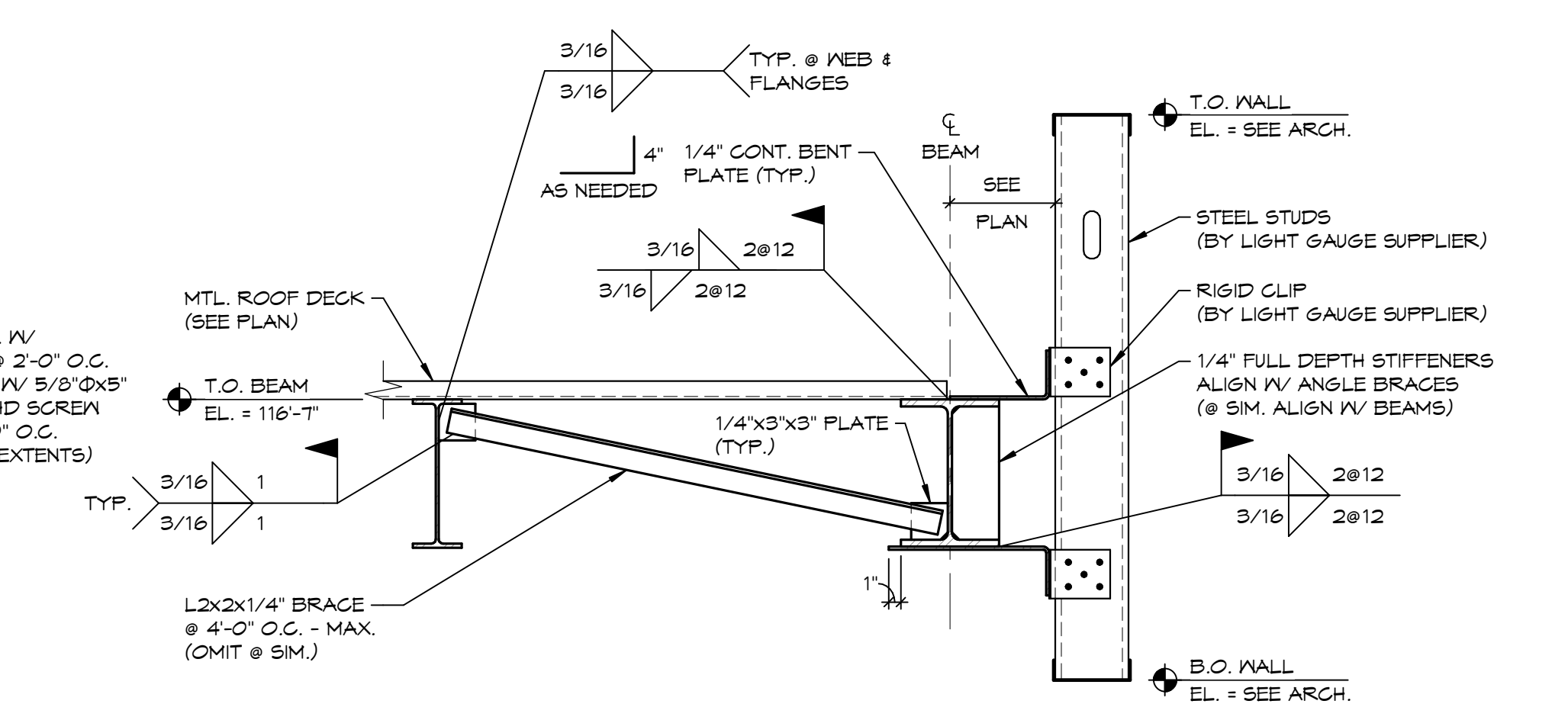
12 SLAB EDGE DETAIL
5403 1" = 1'-0"



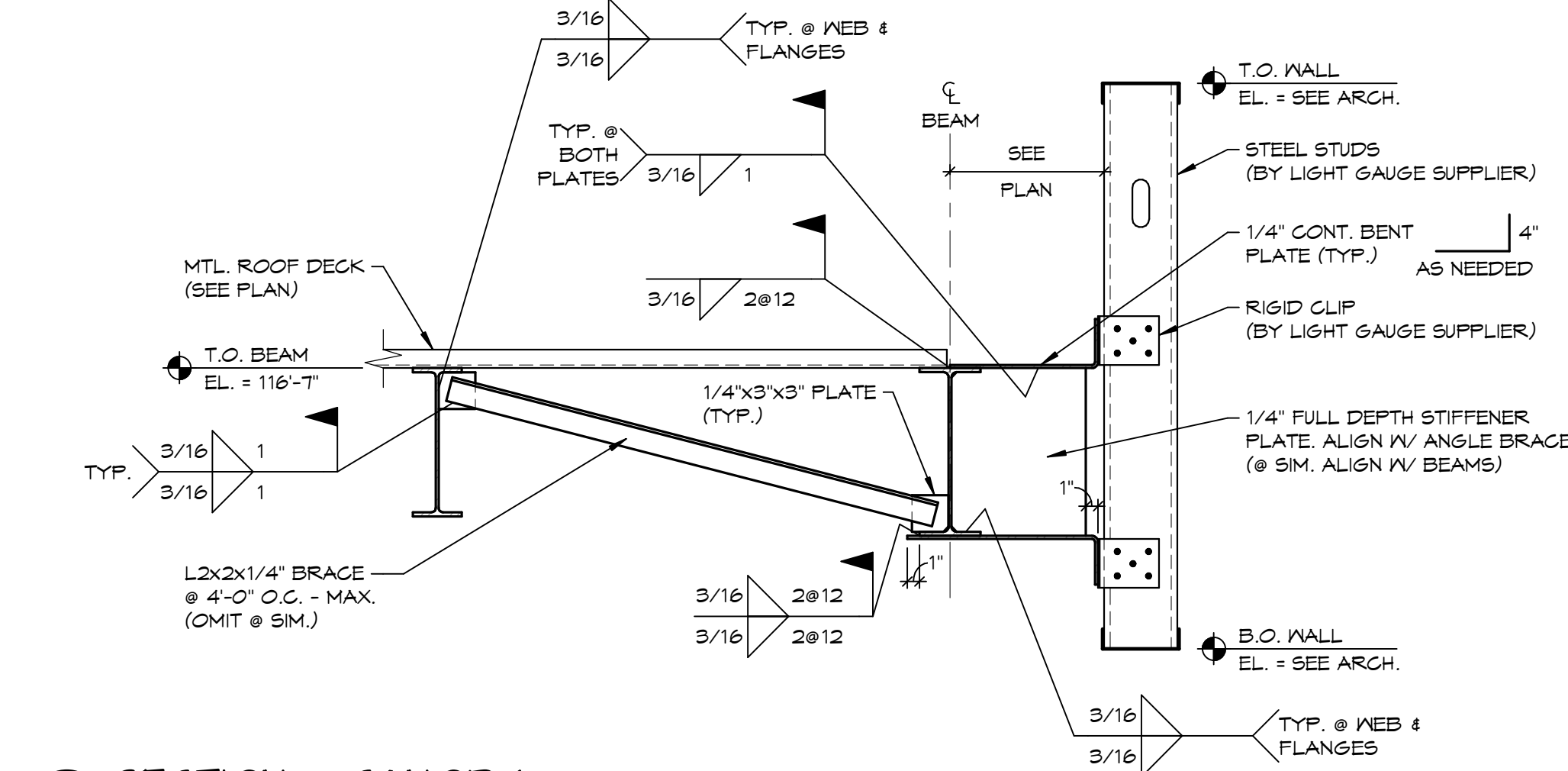
SECTION @ WEST ELEVATOR



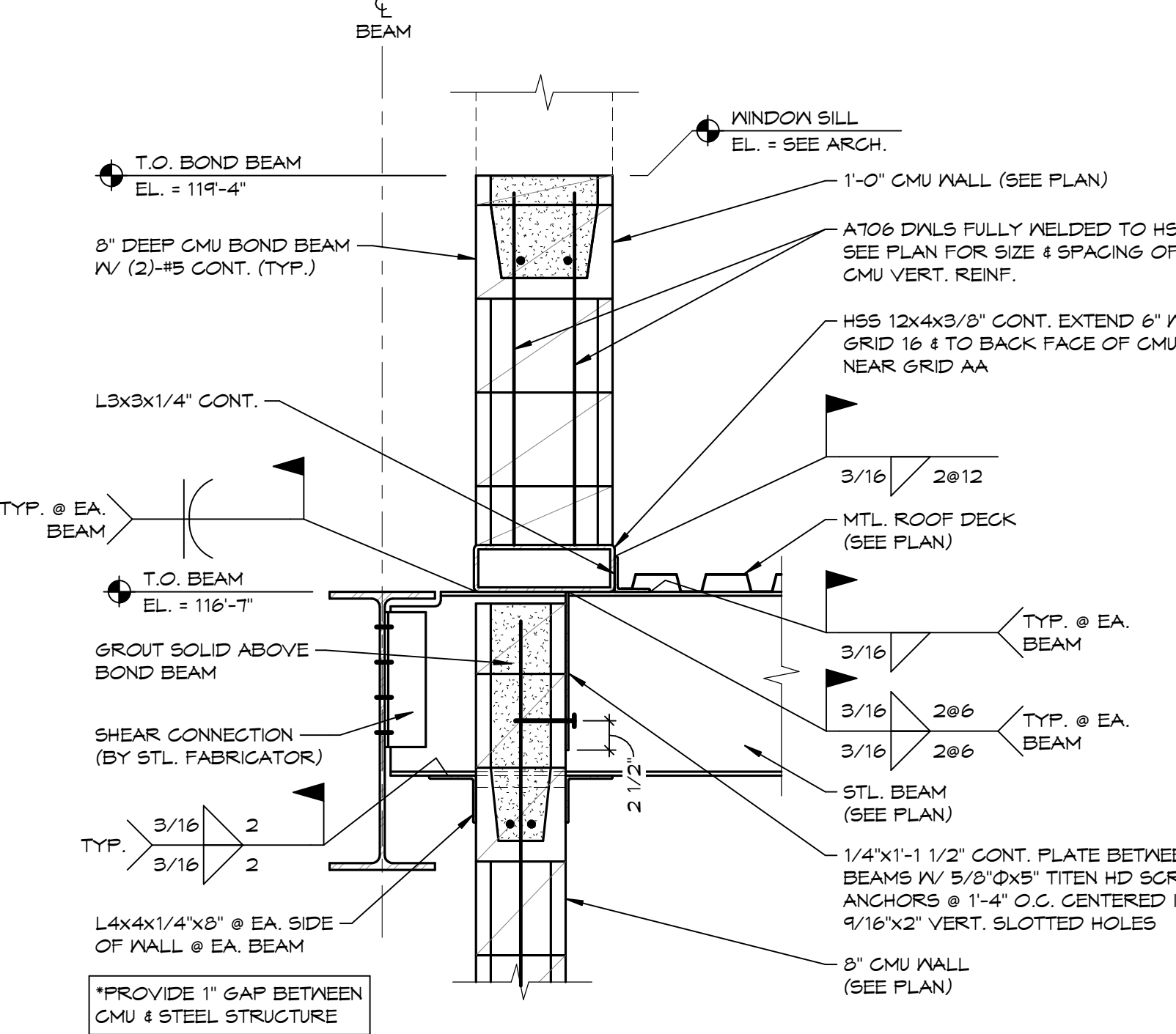
7 STEEL BEAM BEARING DETAIL
5403 1" = 1'-0"



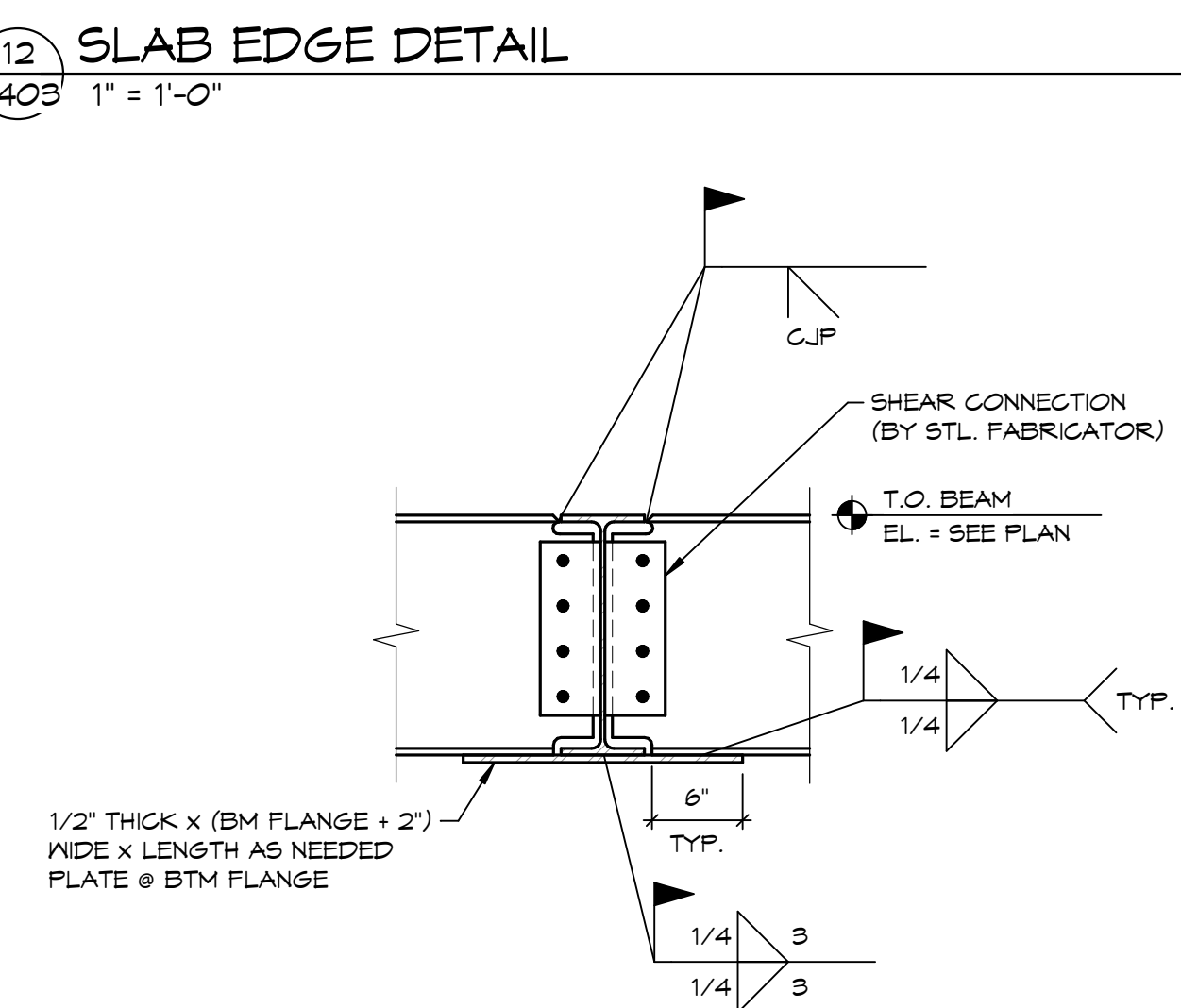
3 SECTION @ CANOPY
5403 1" = 1'-0"



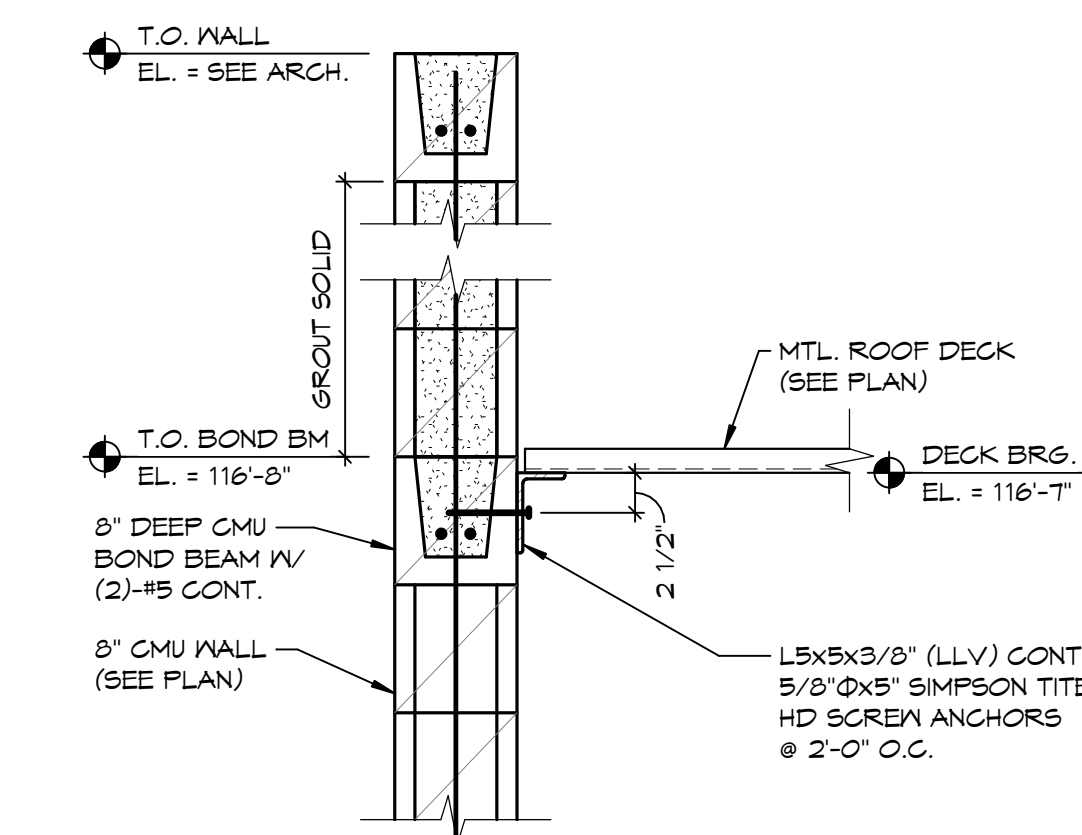
2 SECTION @ CANOPY
5403 1" = 1'-0"



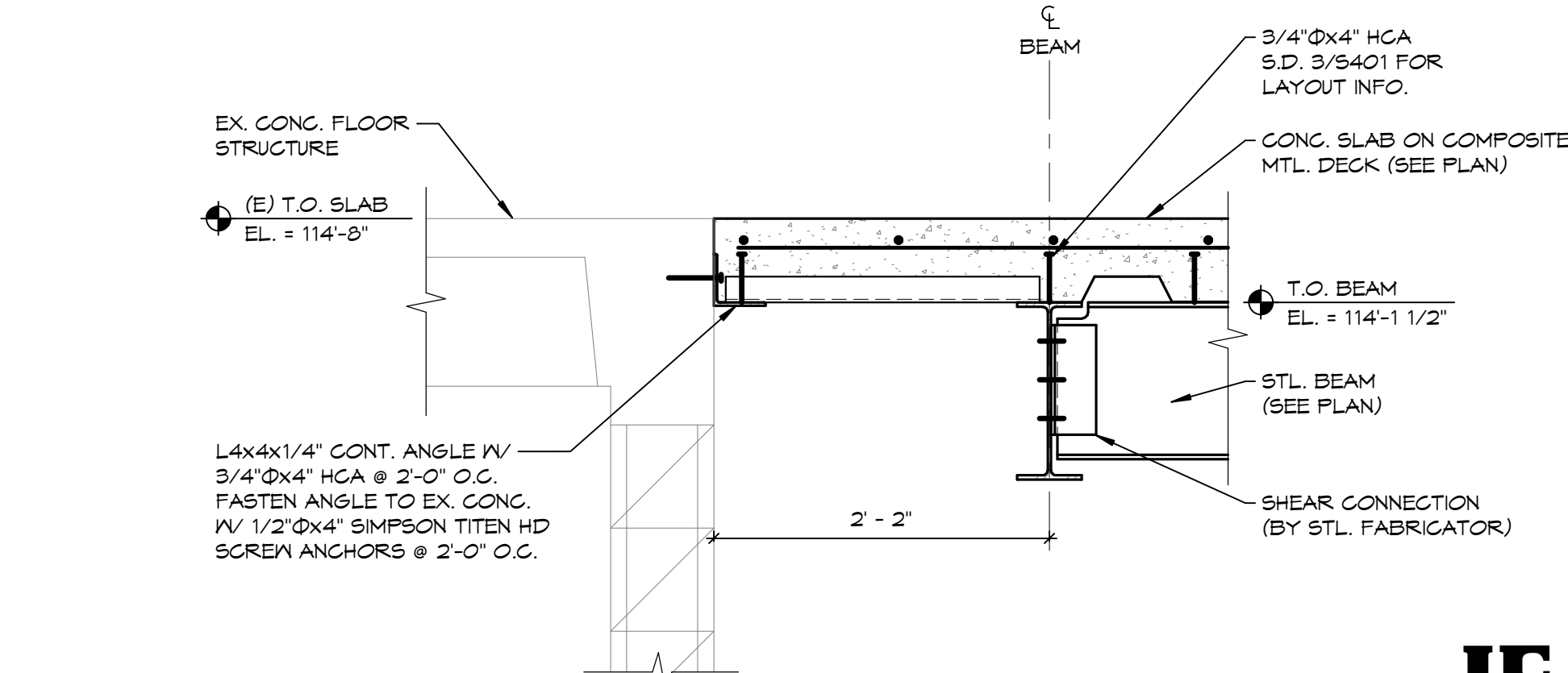
15 SECTION @ LOADING DOCK ROOF
5403 1" = 1'-0"



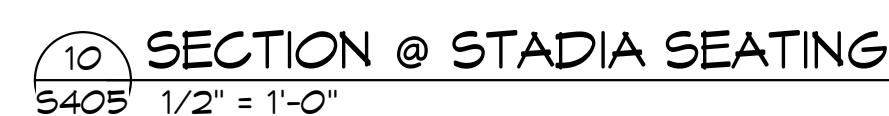
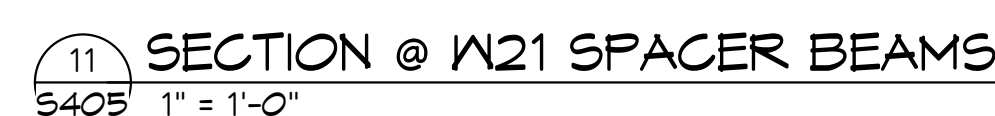
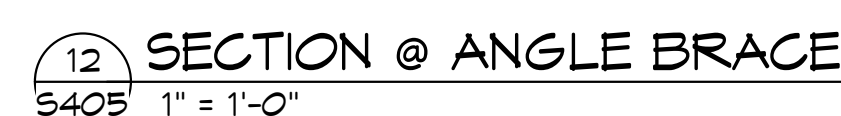
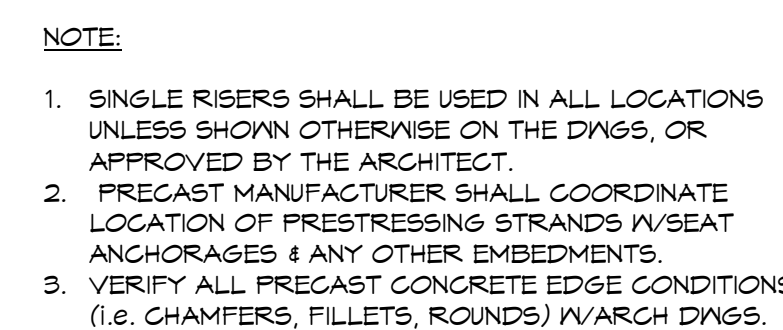
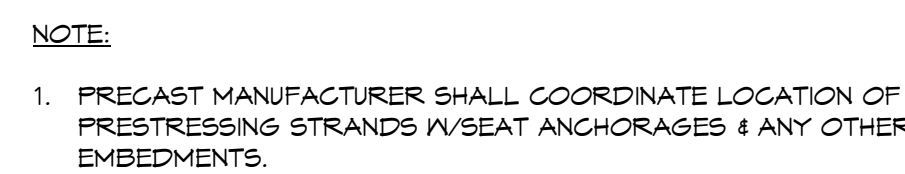
11 MOMENT CONNECTION DETAIL
5403 1" = 1'-0"

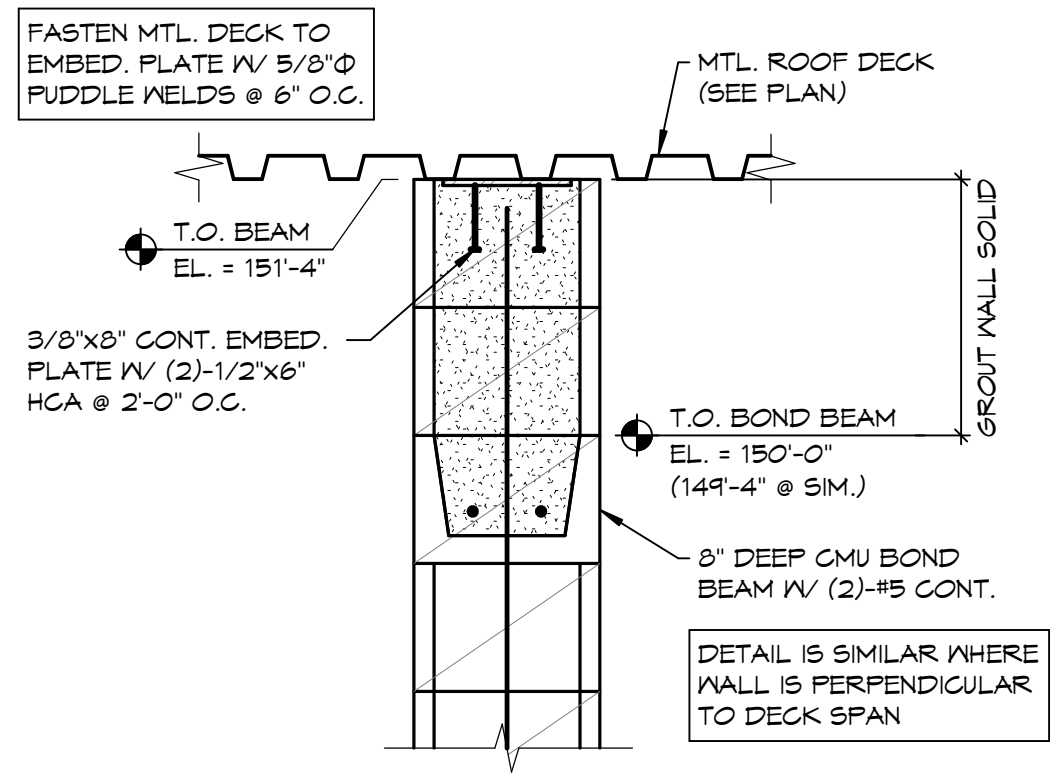


6 DECK SUPPORT ANGLE DETAIL
5403 1" = 1'-0"

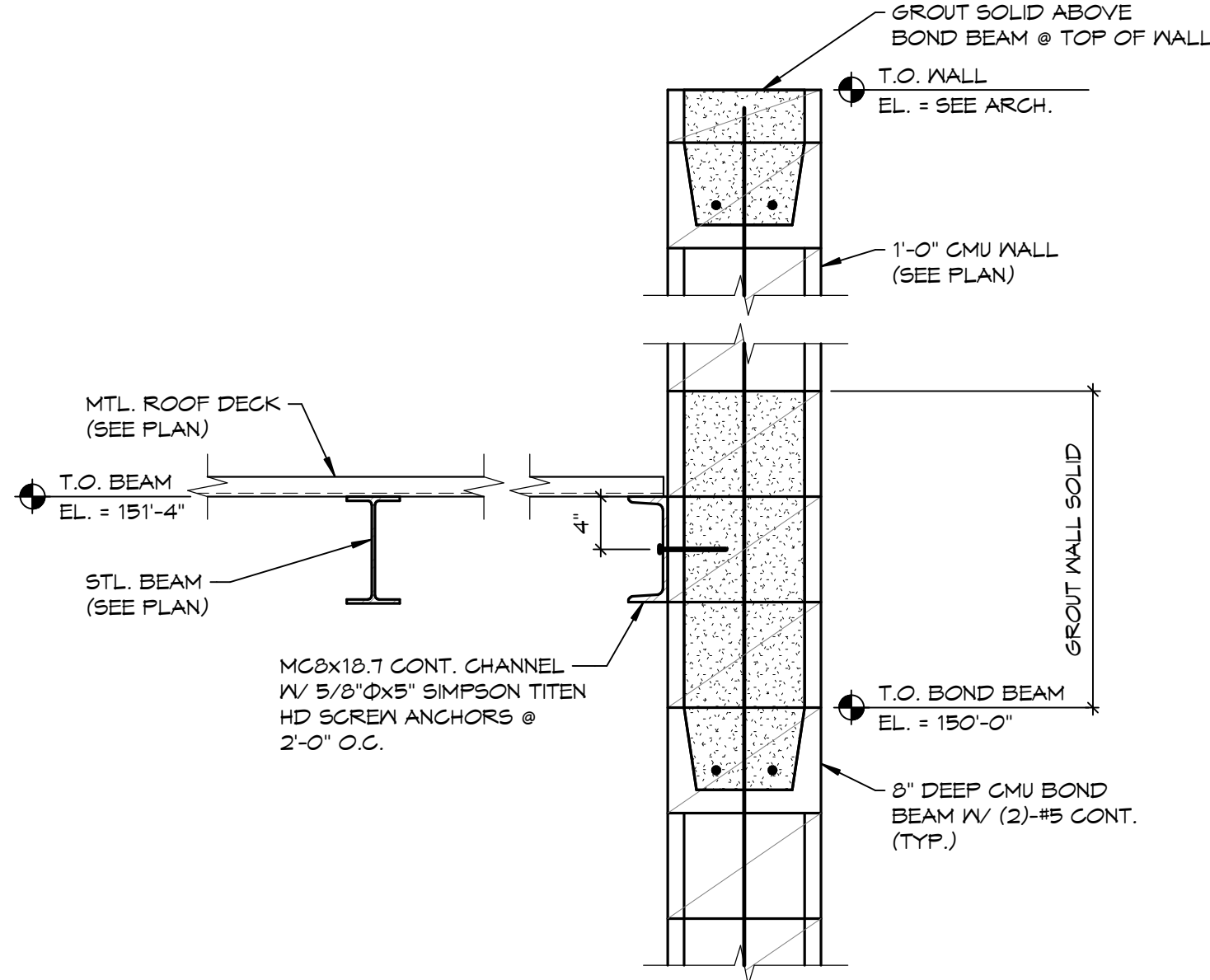


SECTION NEXT TO EXISTING
1" = 1'-0"

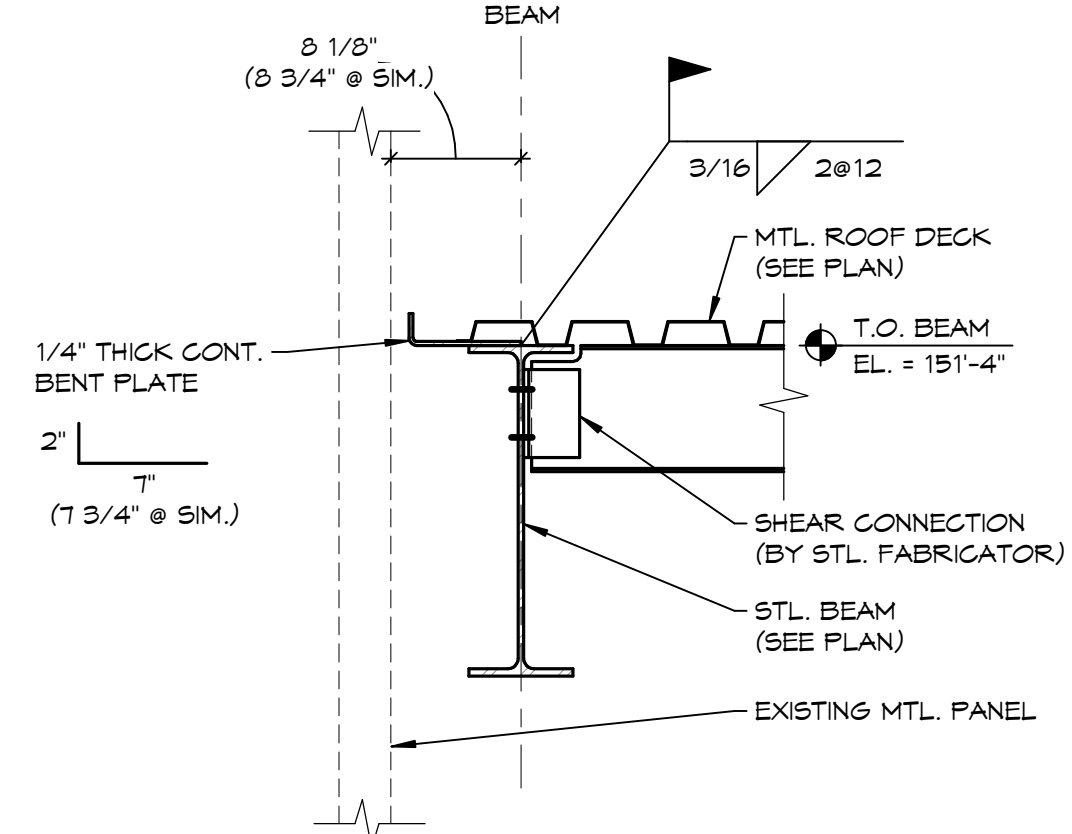




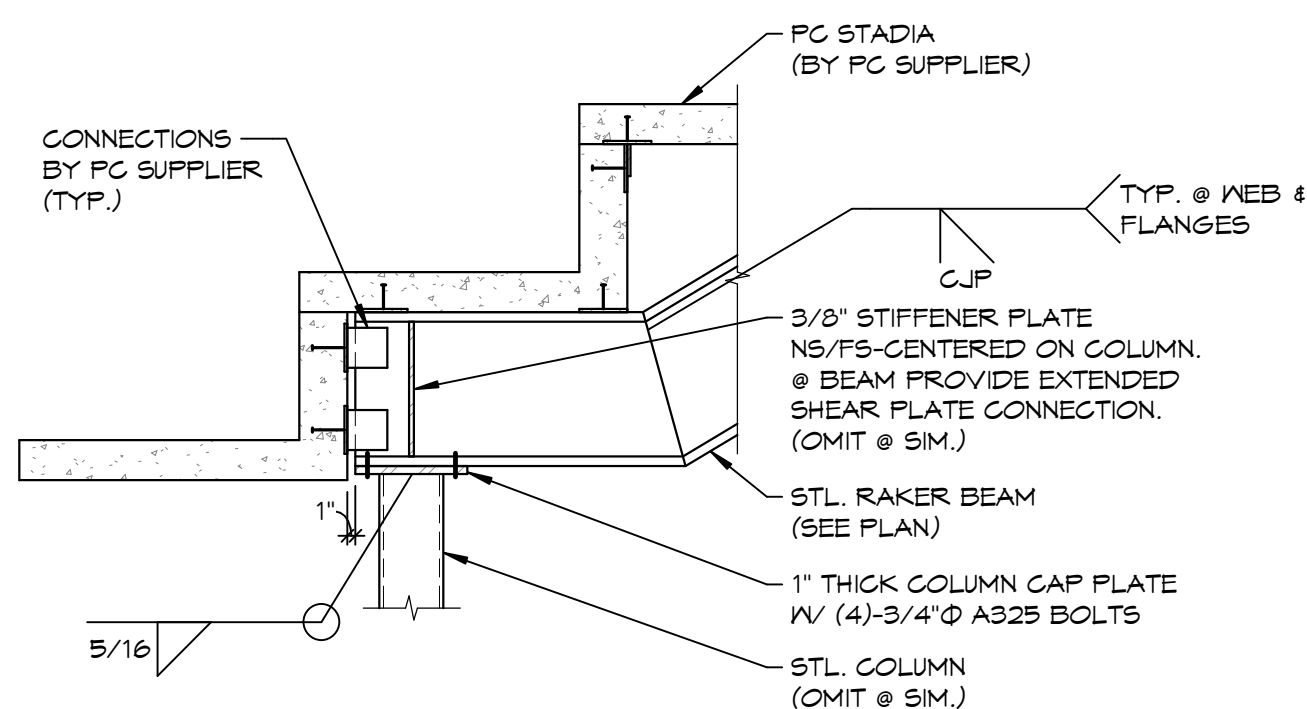
16 SECTION @ TOP OF WALL
 S406 1" = 1'-0"



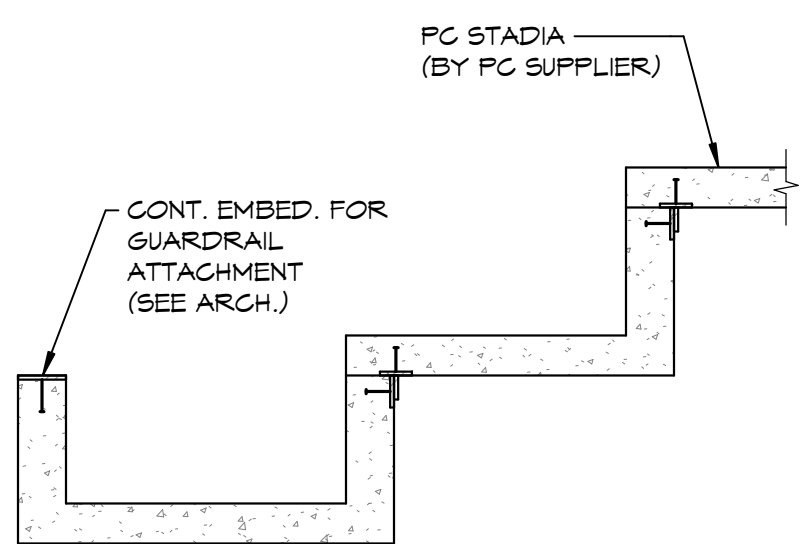
15 SECTION @ ROOF
 S406 1" = 1'-0"



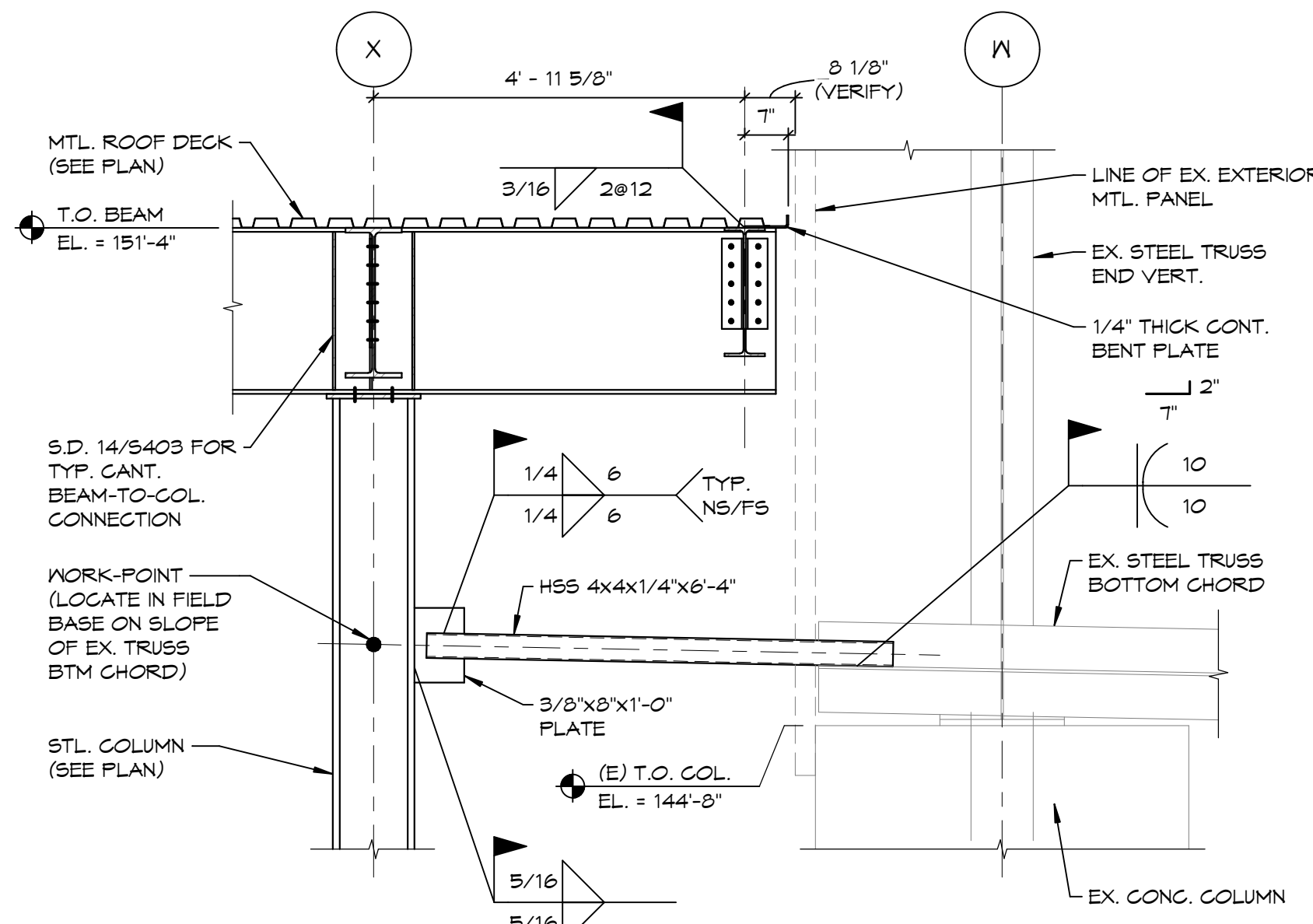
14 SECTION @ ROOF NEXT TO EXISTING
 S406 1" = 1'-0"



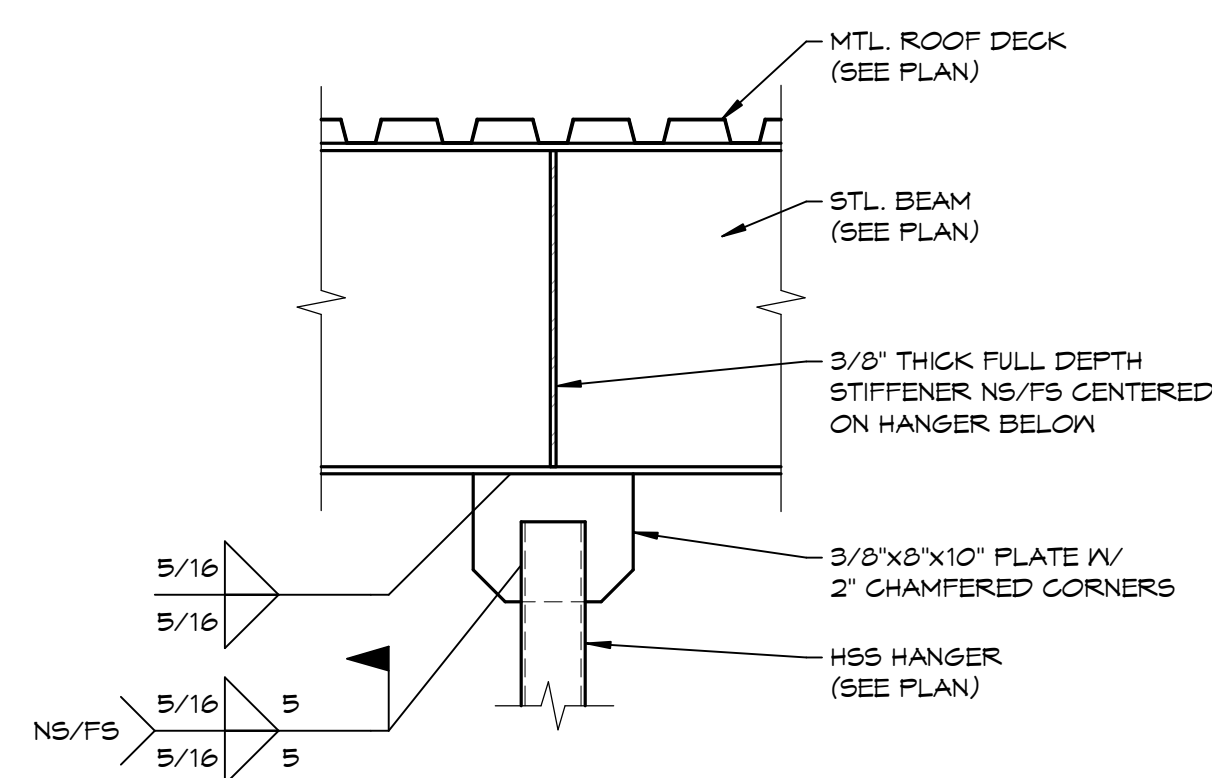
13 SECTION @ STADIA SUPPORT
 S406 1/2" = 1'-0"



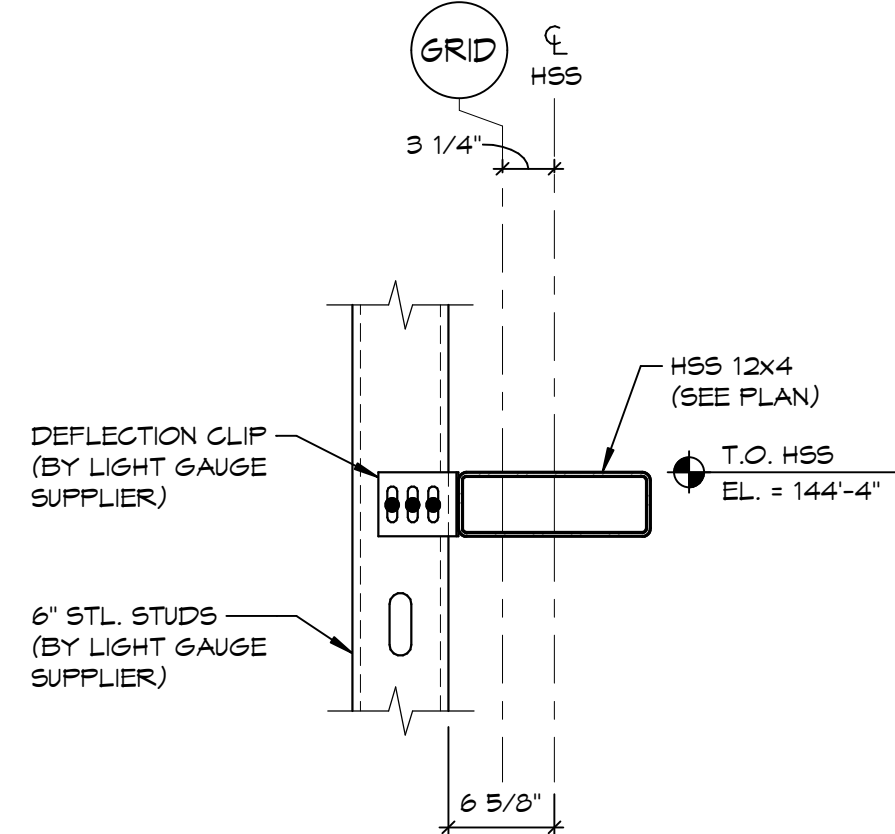
12 SECTION @ STADIA SEATING
 S406 1/2" = 1'-0"



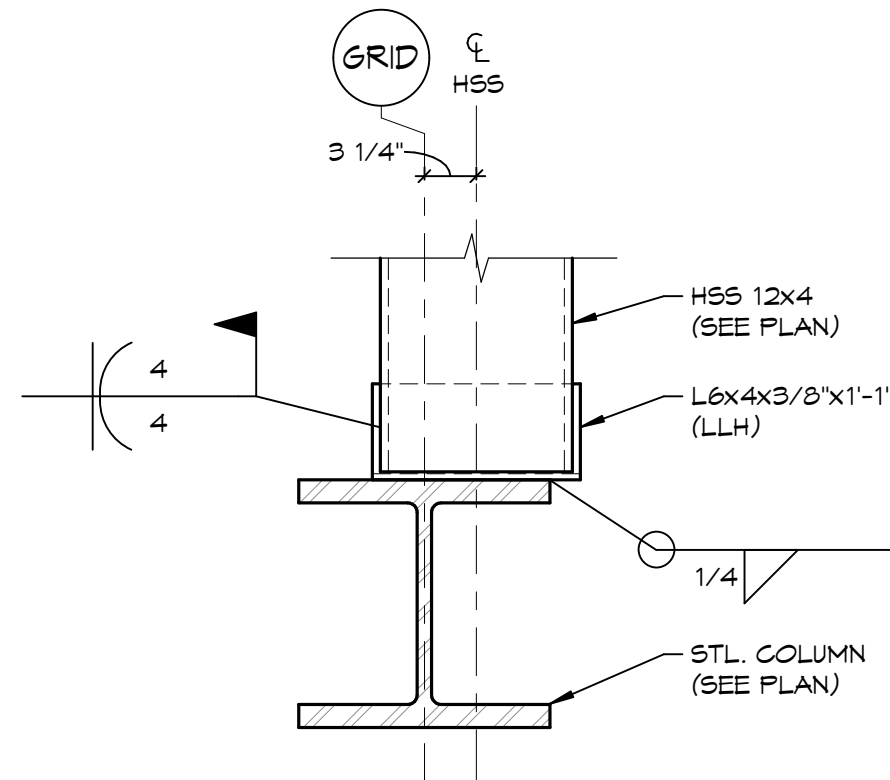
11 SECTION @ HIGH ROOF NEXT TO EXISTING
 S406 1/2" = 1'-0"



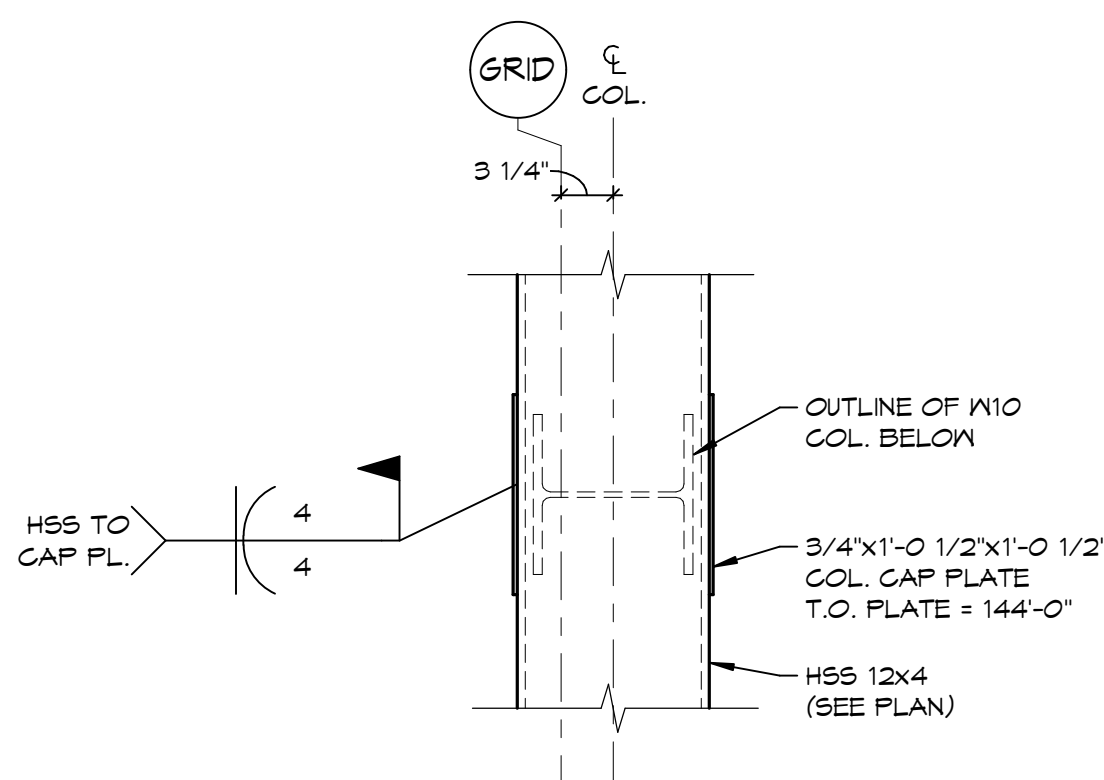
10 HSS HANGER DETAIL
 S406 1" = 1'-0"



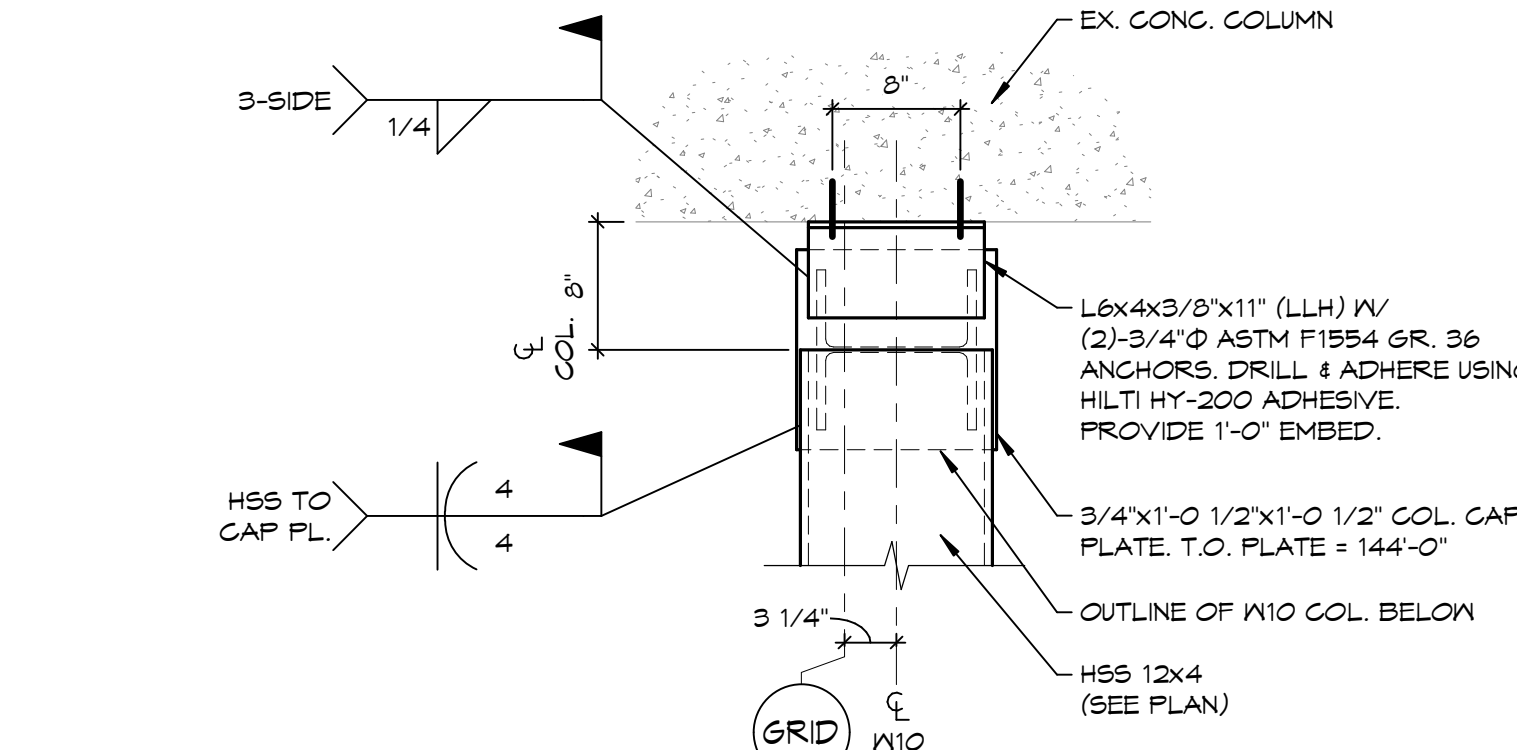
9 SECTION @ HSS GIRT
 S406 1" = 1'-0"



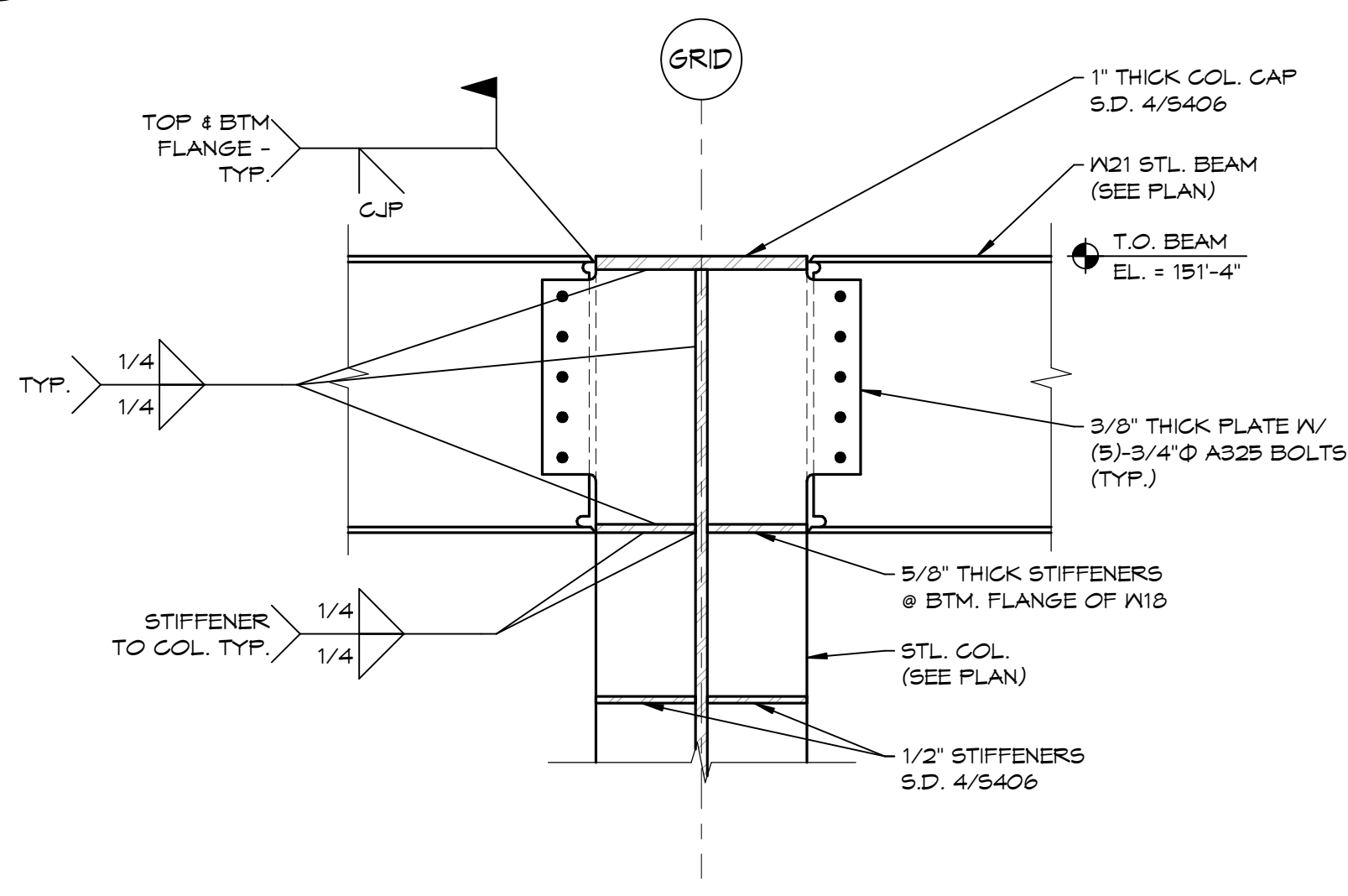
8 CONNECTION DETAIL
 S406 1" = 1'-0"



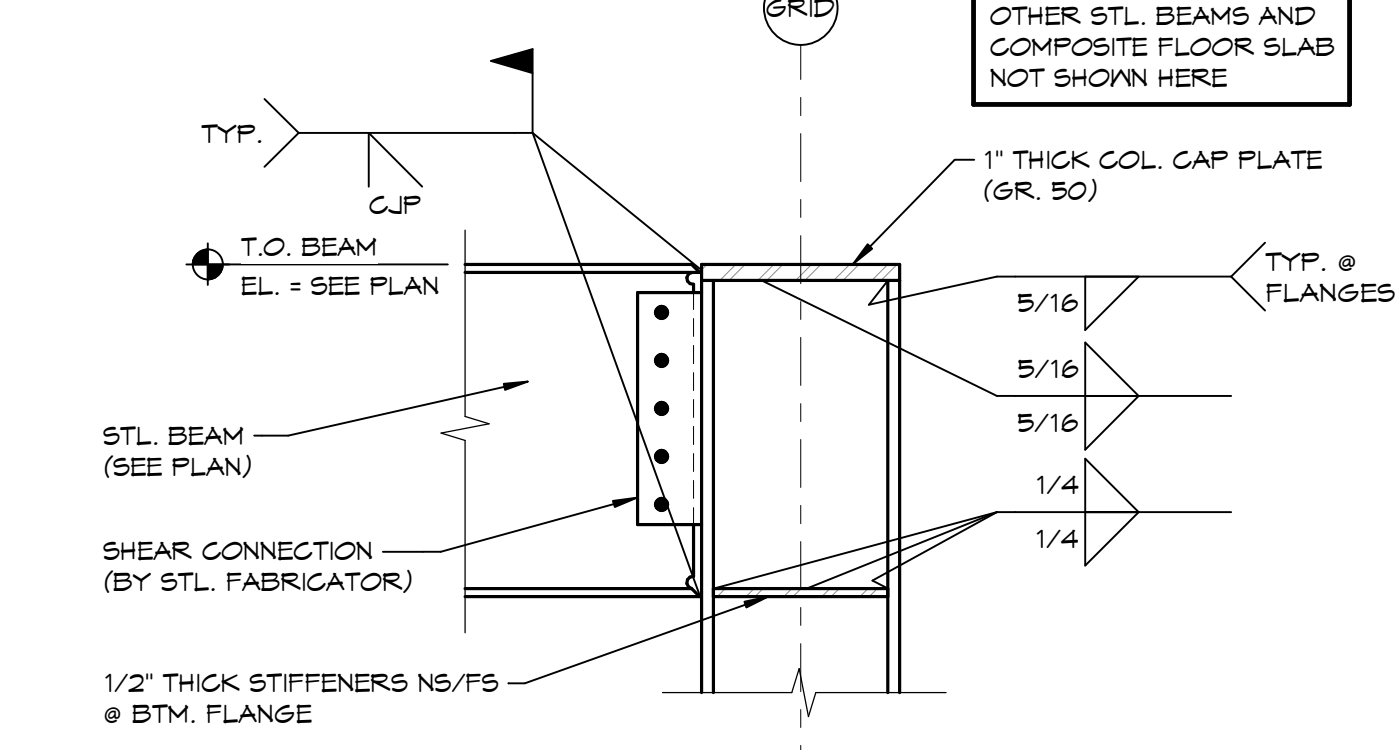
7 CONNECTION DETAIL
 S406 1" = 1'-0"



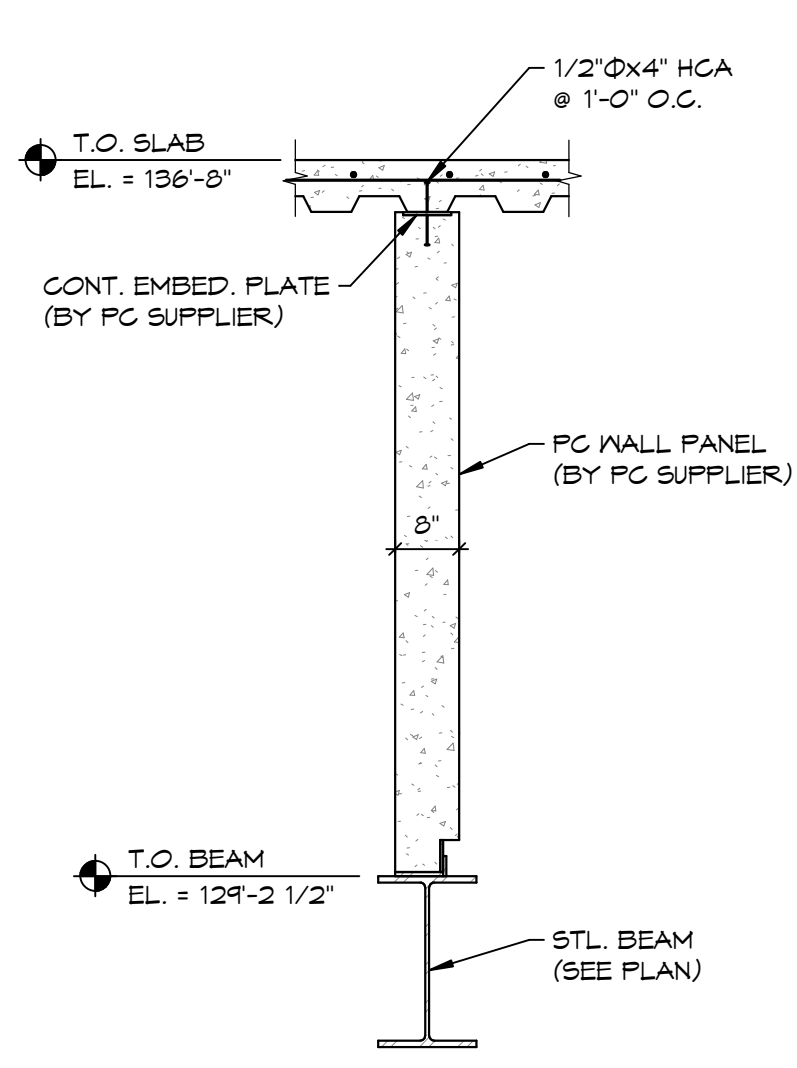
6 CONNECTION DETAIL
 S406 1" = 1'-0"



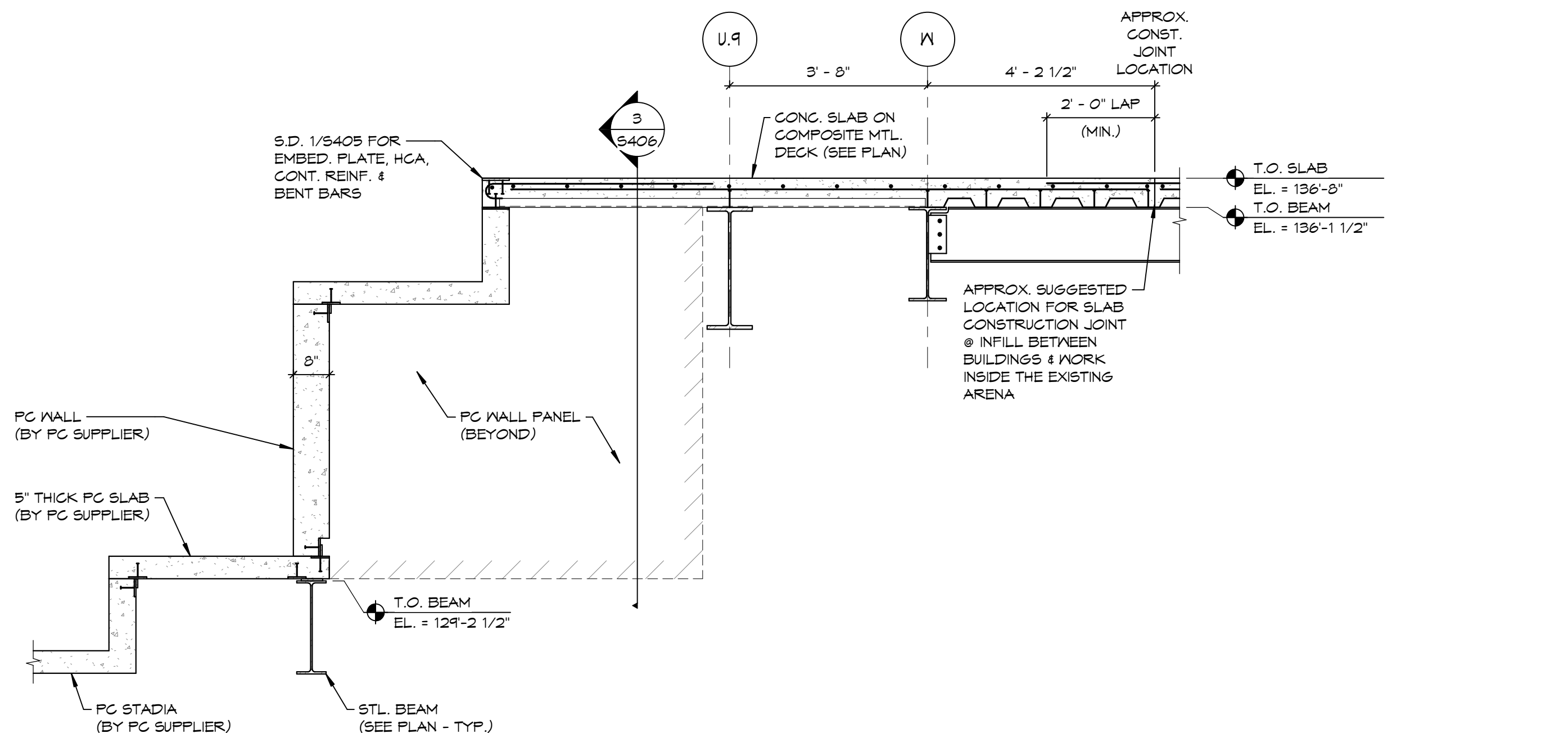
5 MOMENT CONNECTION DETAIL
 S406 1" = 1'-0"



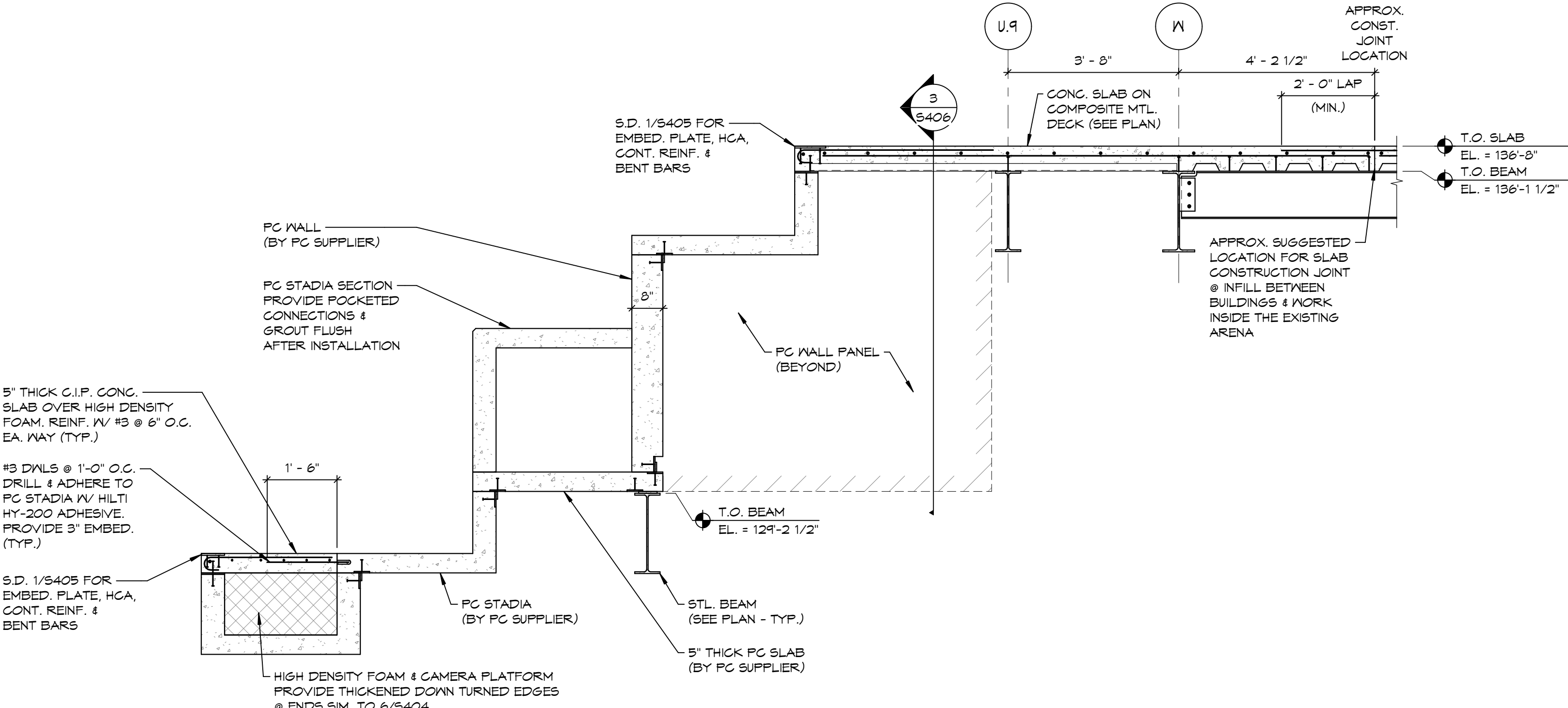
4 MOMENT CONNECTION DETAIL
 S406 1" = 1'-0"



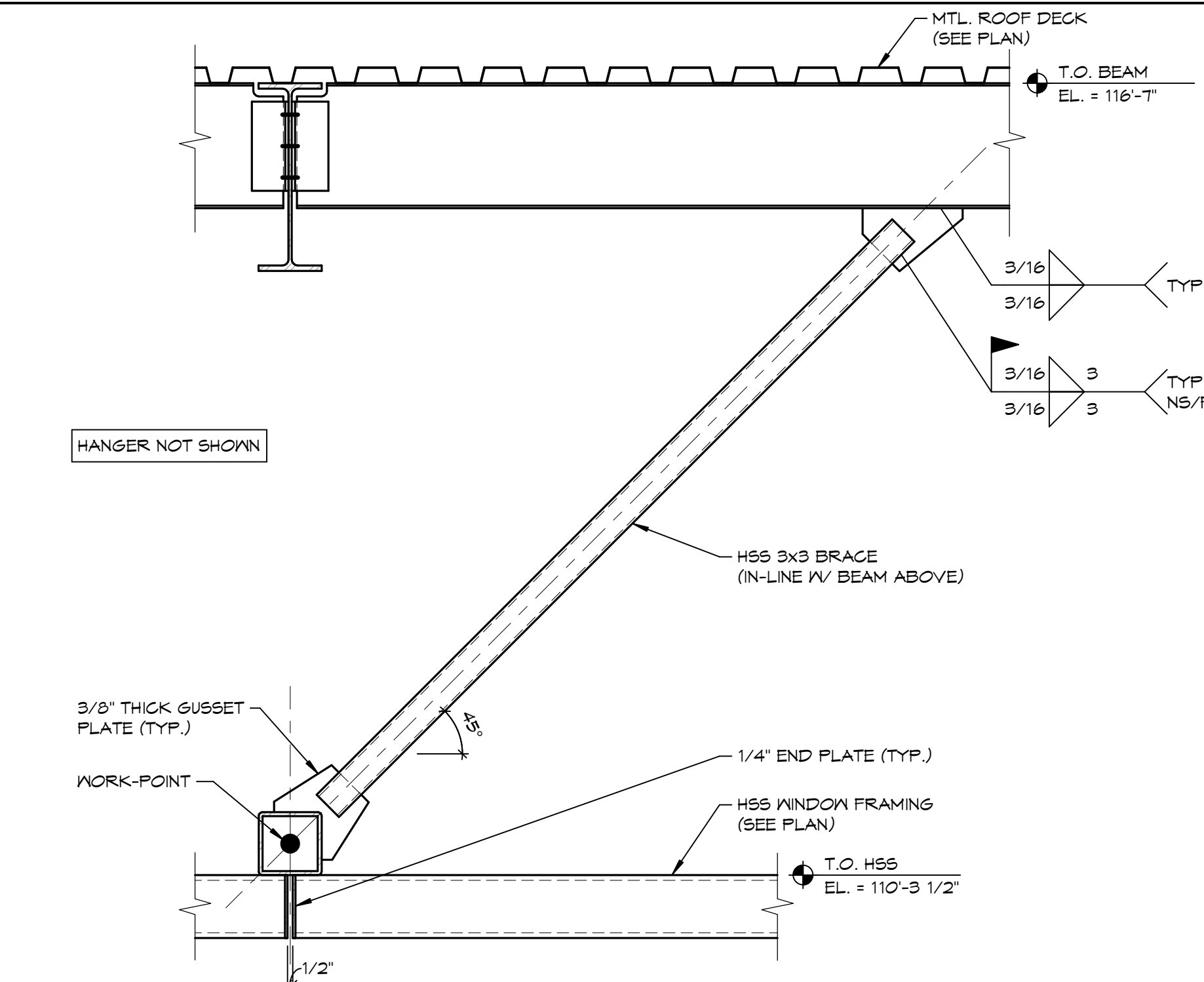
3 SECTION @ PC WALL PANEL
 S406 1/2" = 1'-0"



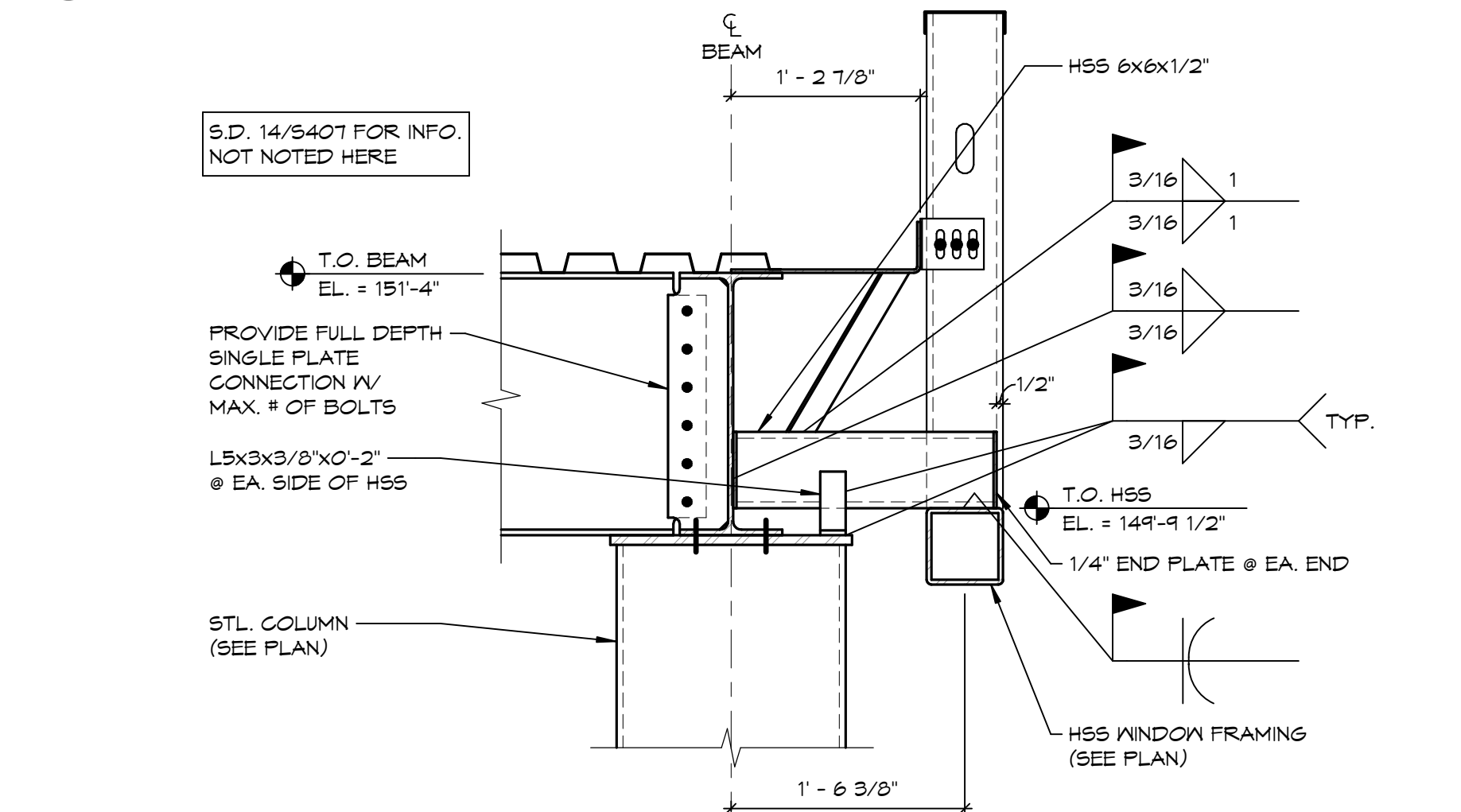
2 SECTION @ STADIA SEATING
 S406 1/2" = 1'-0"



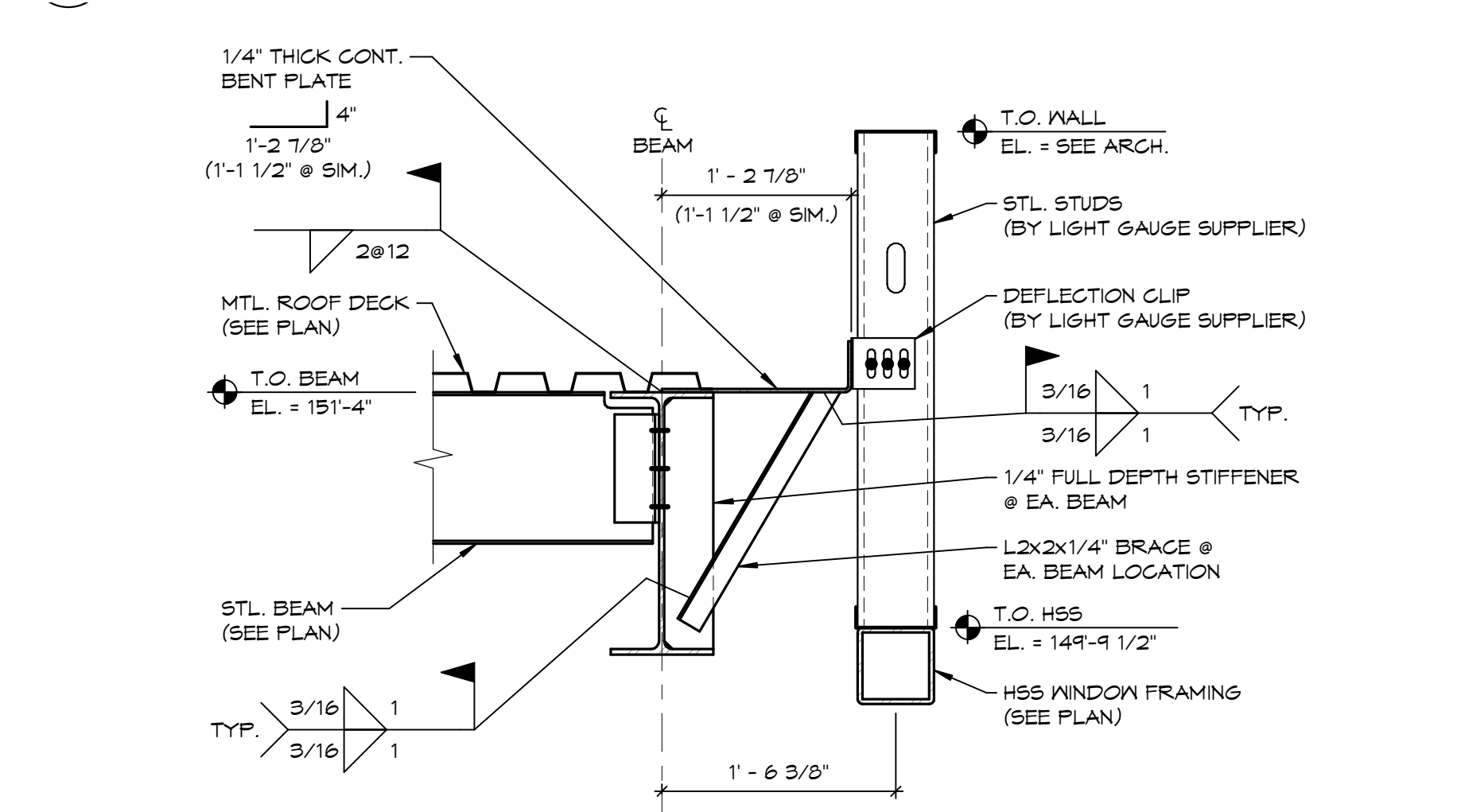
1 SECTION @ STADIA SEATING
 S406 1/2" = 1'-0"



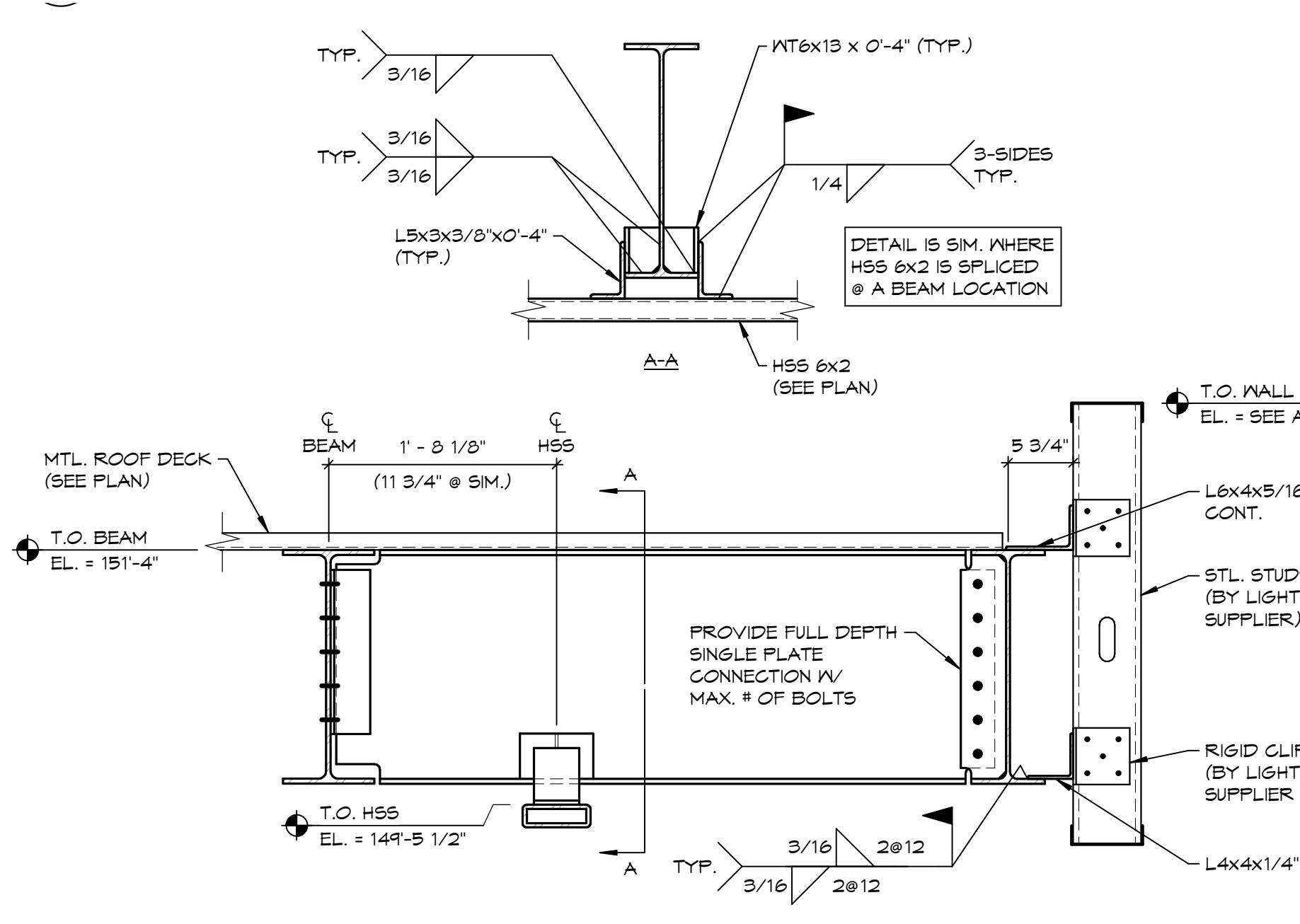
16 WINDOW FRAMING DIAGONAL BRACE DETAIL
 S407 1" = 1'-0"



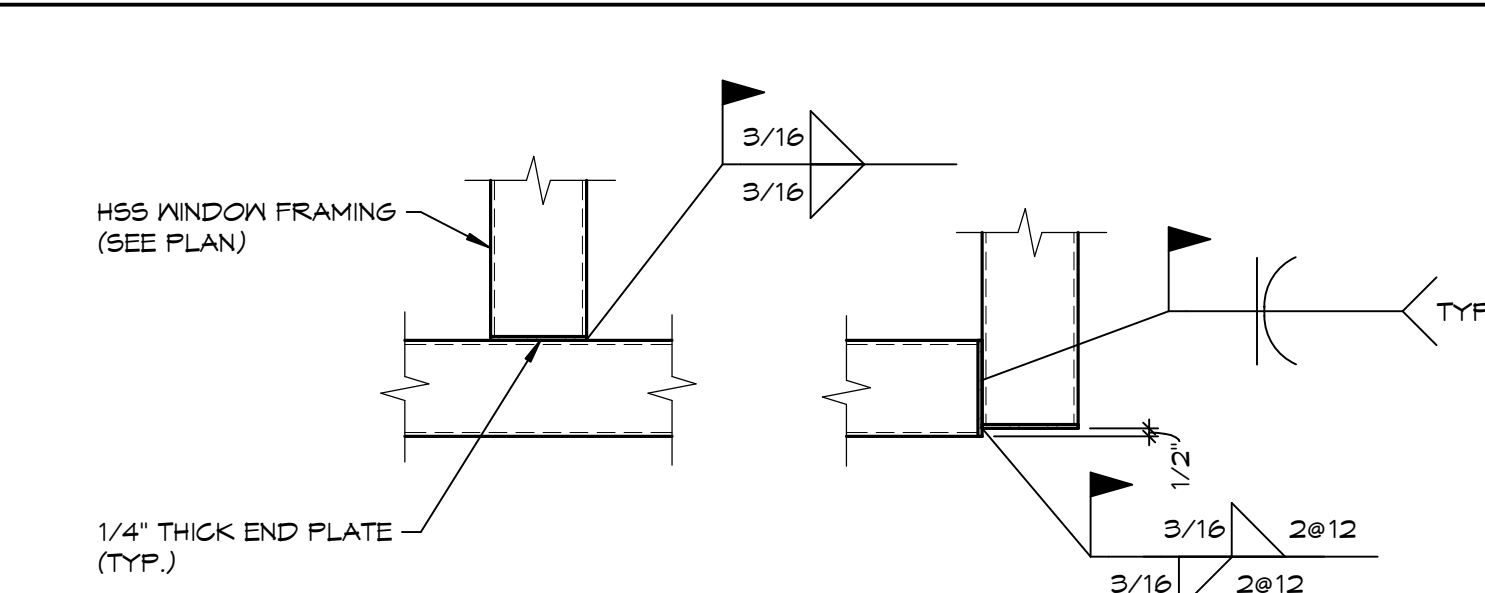
15 SECTION @ ROOF EDGE/HSS WINDOW FRAMING
 S407 1" = 1'-0"



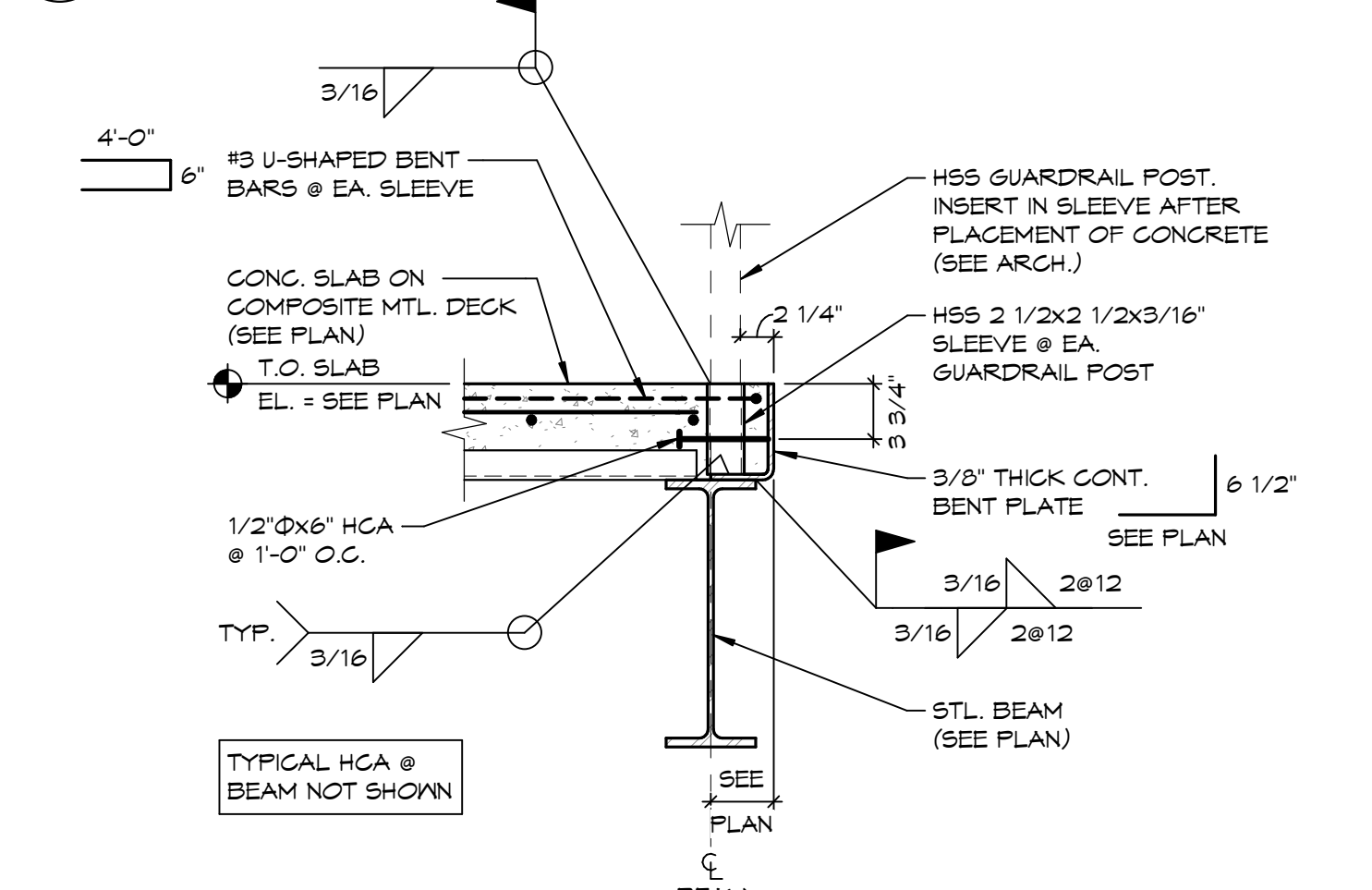
14 SECTION @ ROOF EDGE/HSS WINDOW FRAMING
 S407 1" = 1'-0"



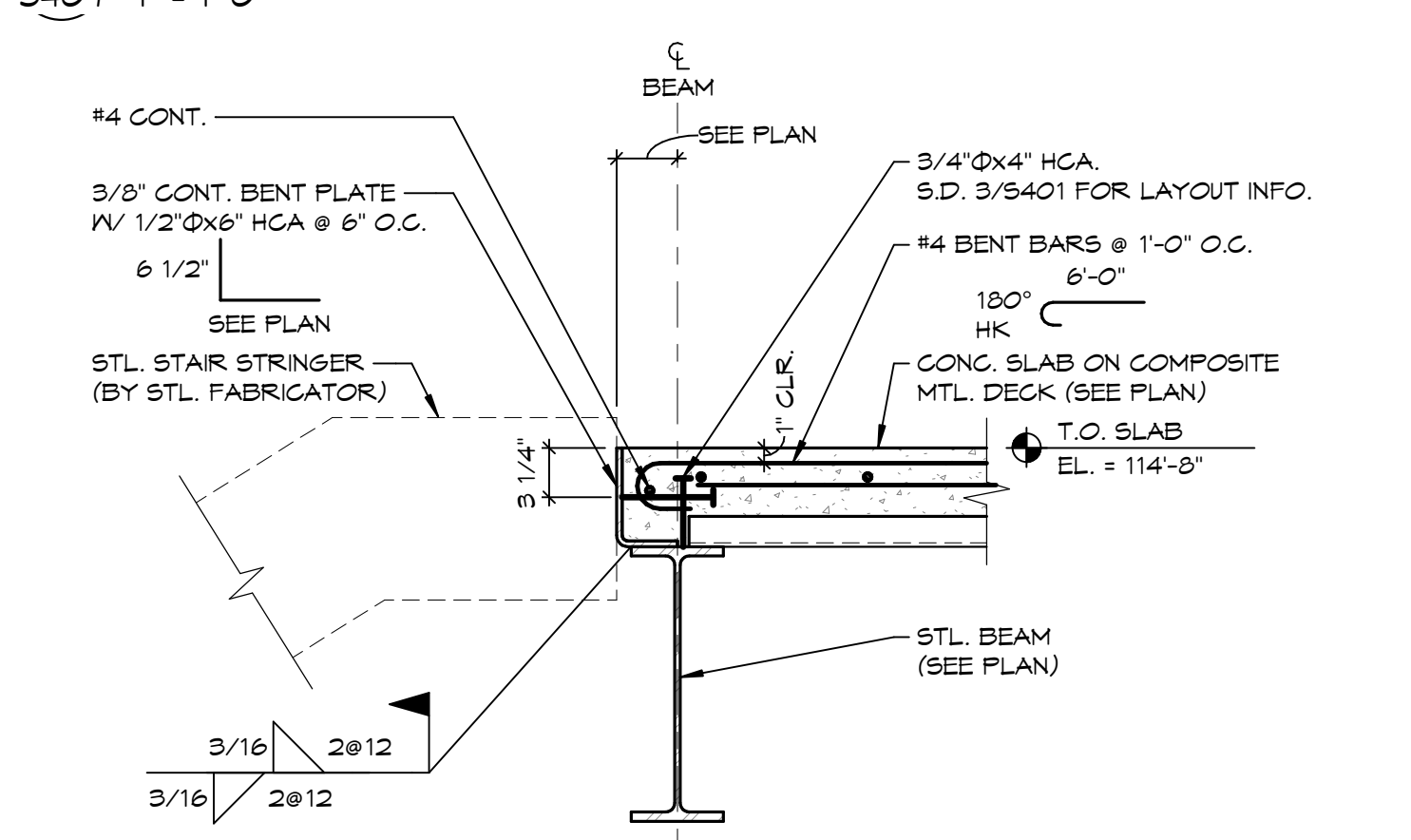
13 SECTION @ ROOF EDGE/HSS WINDOW FRAMING
 S407 1" = 1'-0"



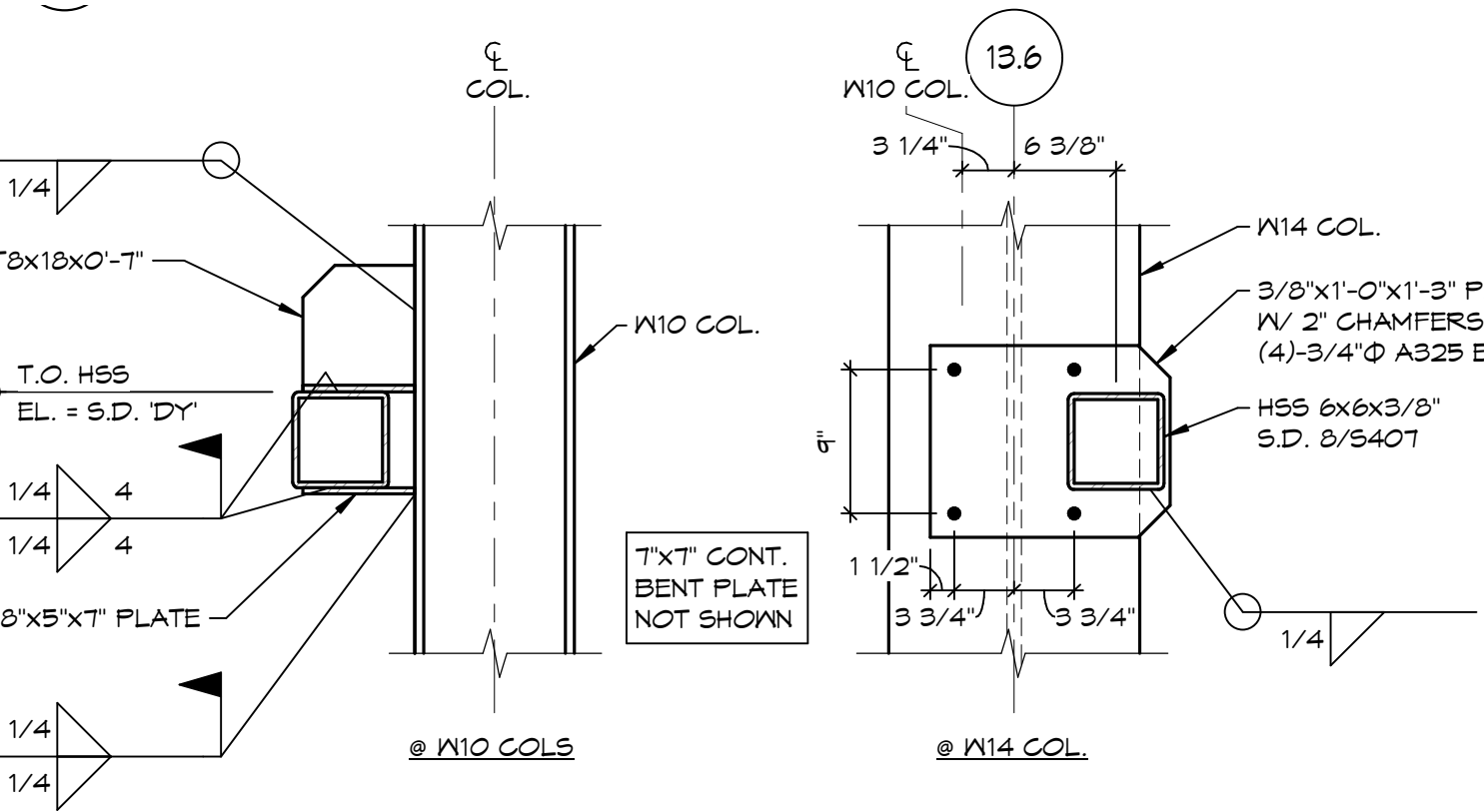
12 HSS WINDOW FRAMING CONNECTION DETAILS
 S407 1" = 1'-0"



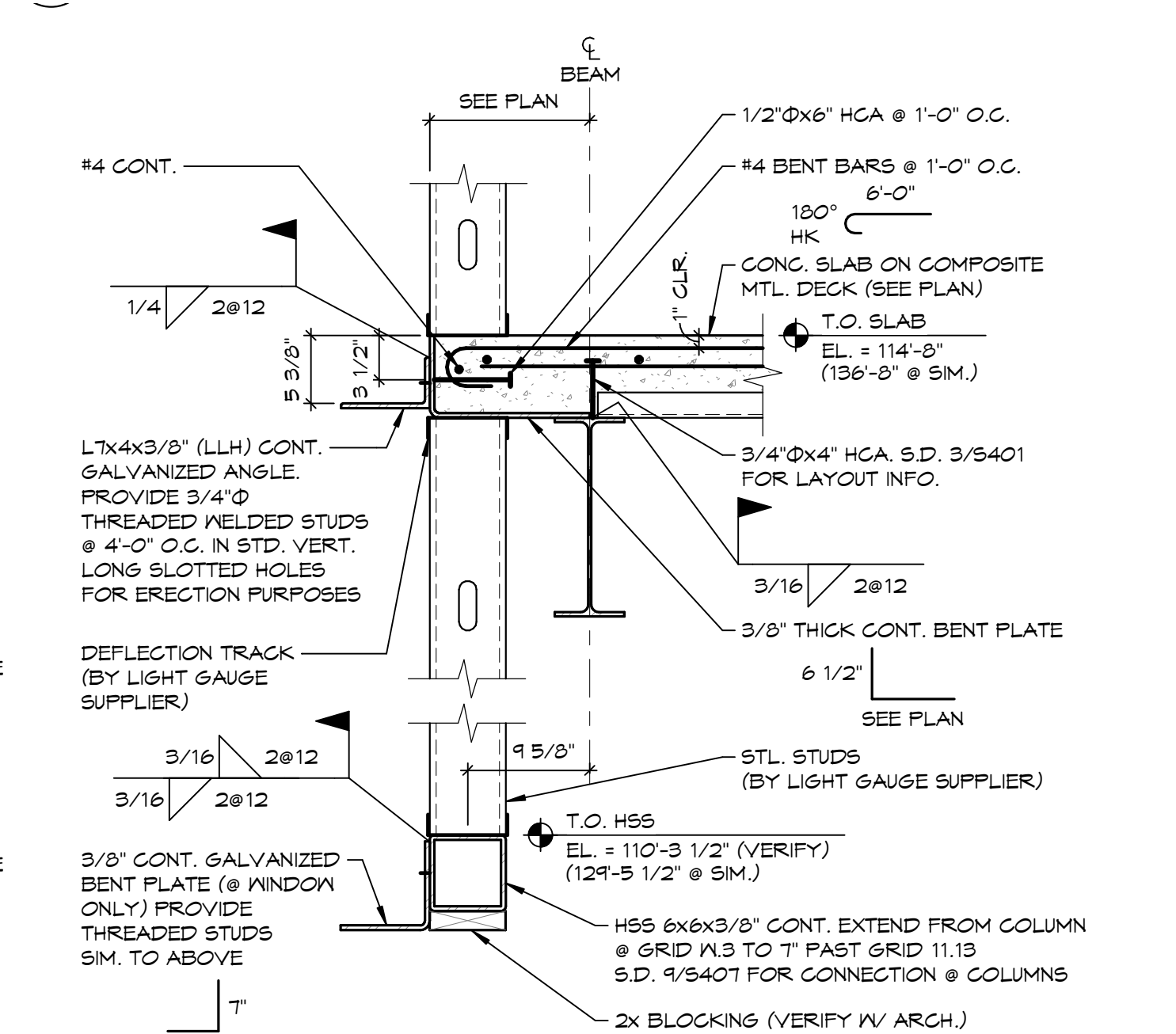
11 SLAB EDGE DETAIL @ RAILING
 S407 1" = 1'-0"



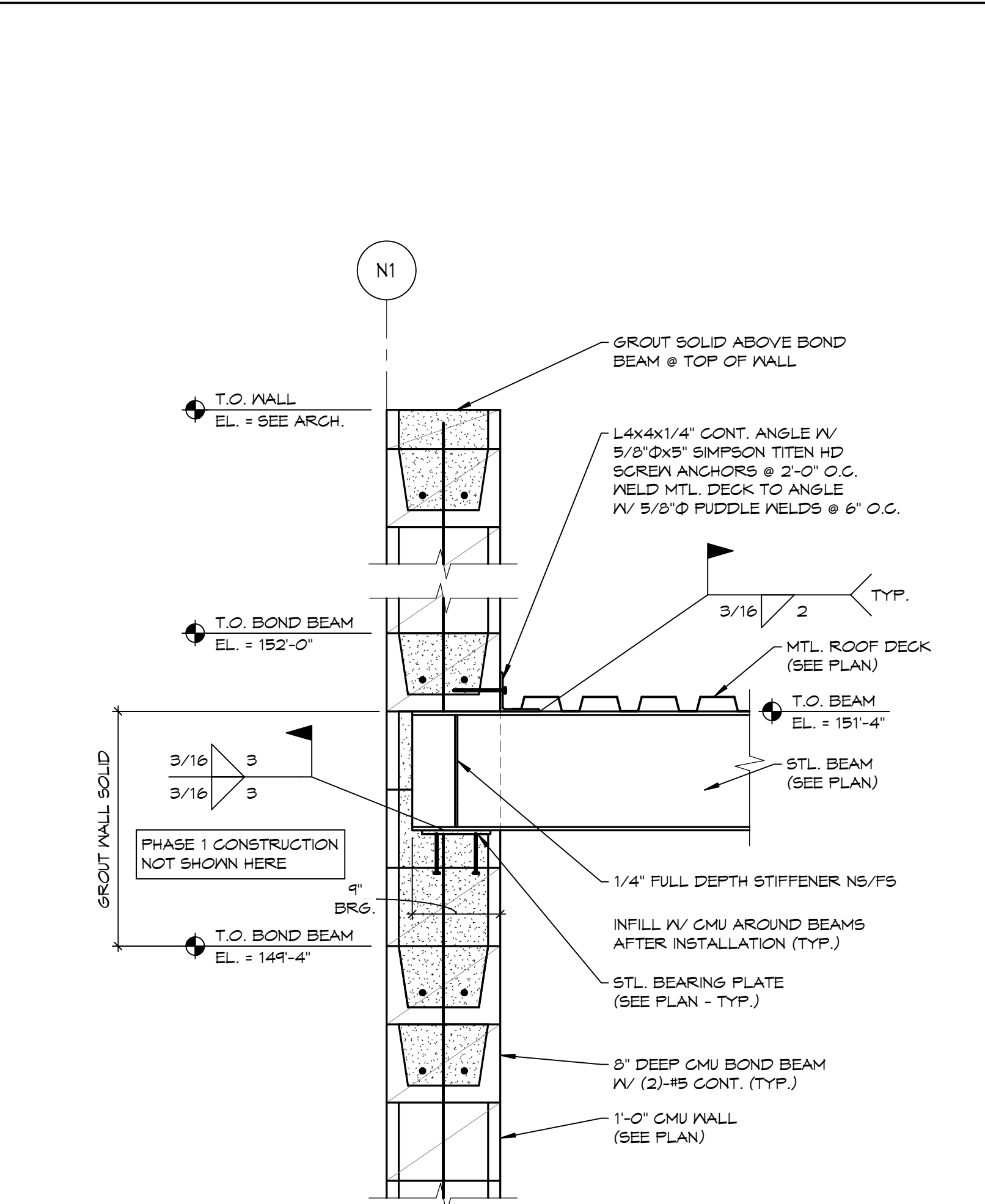
10 SECTION @ STAIR
 S407 1" = 1'-0"



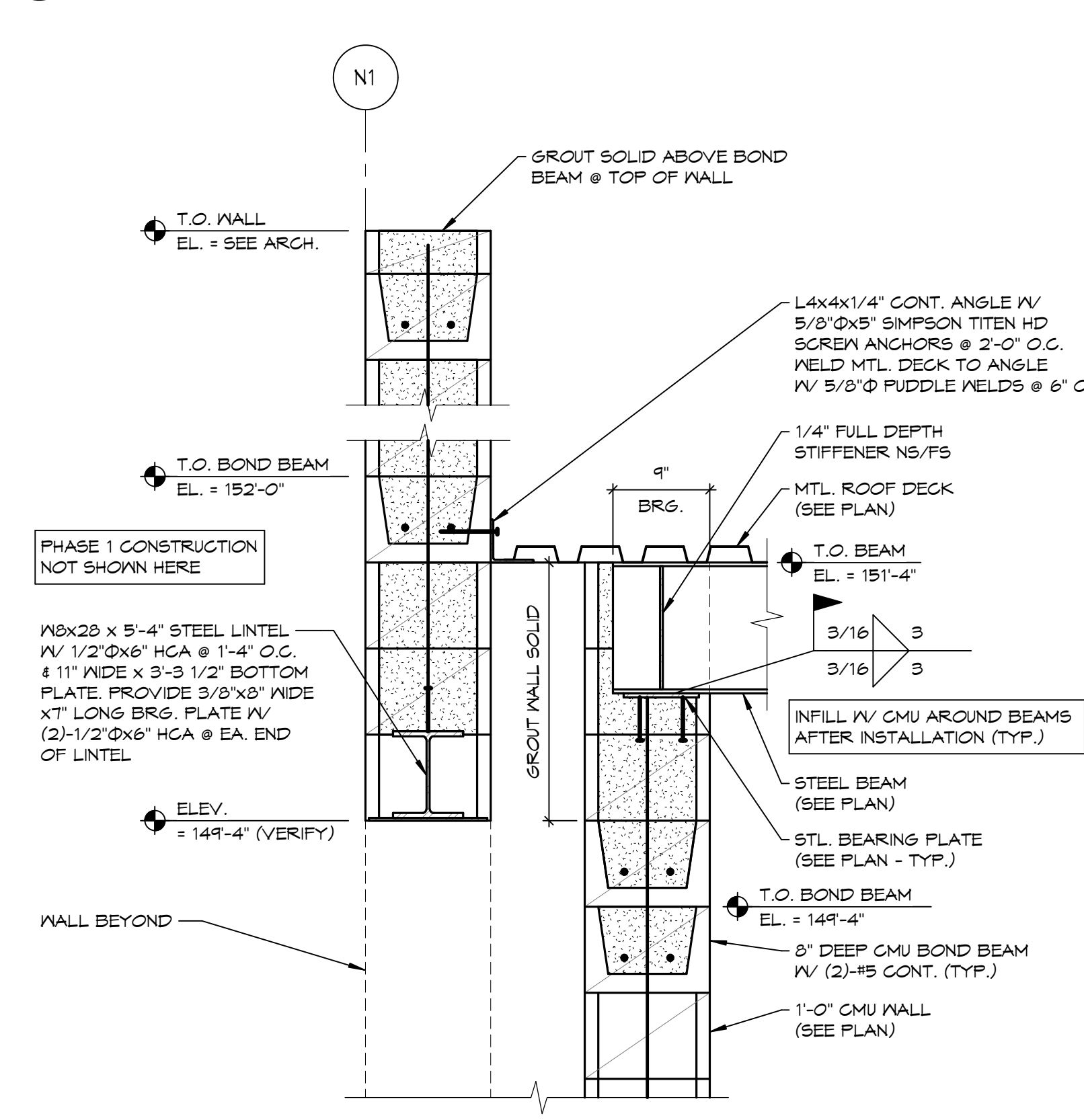
9 HSS CONNECTION @ COLUMNS
 S407 1" = 1'-0"



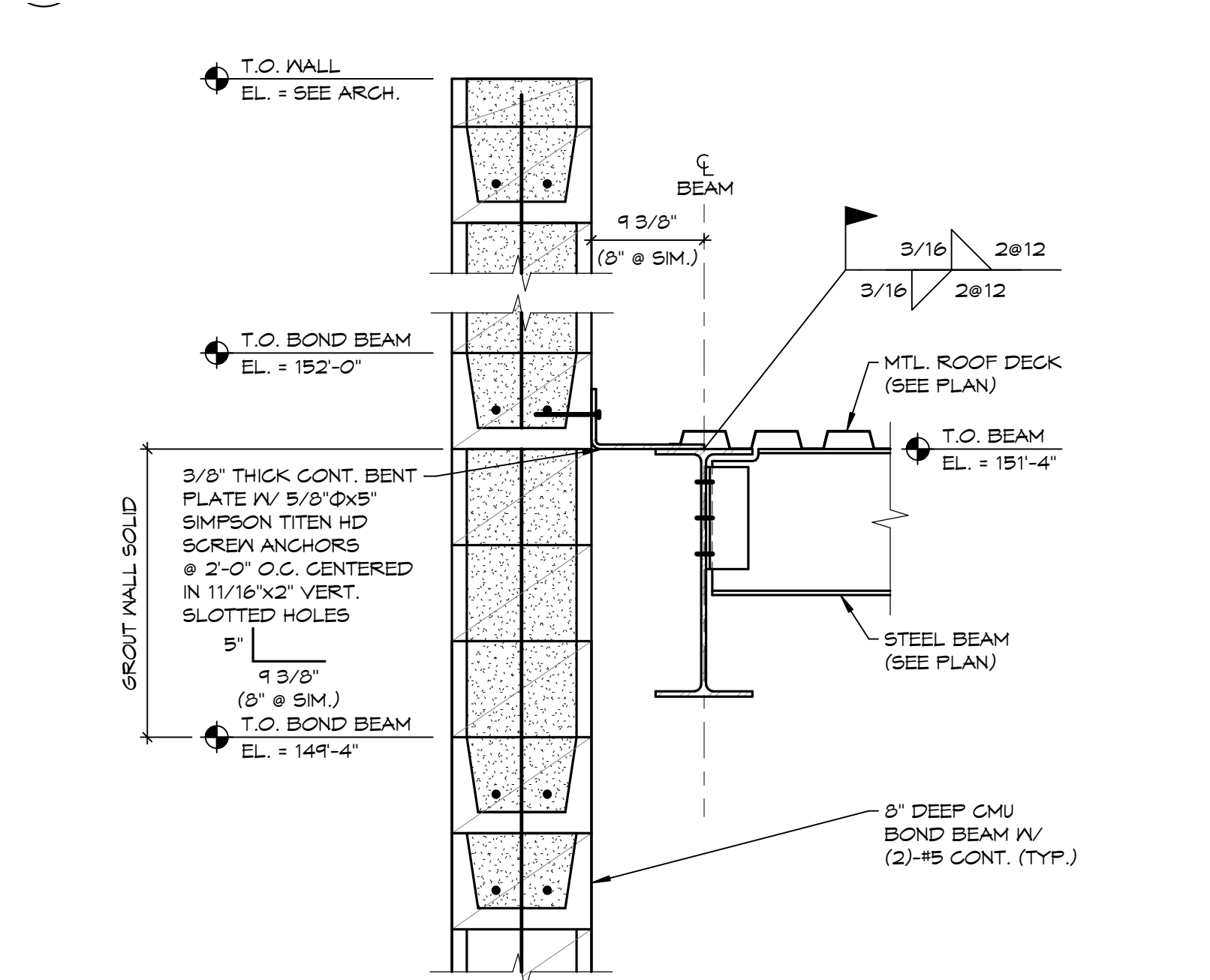
8 SECTION @ SLAB EDGE SUPPORTING BRICK
 S407 1" = 1'-0"



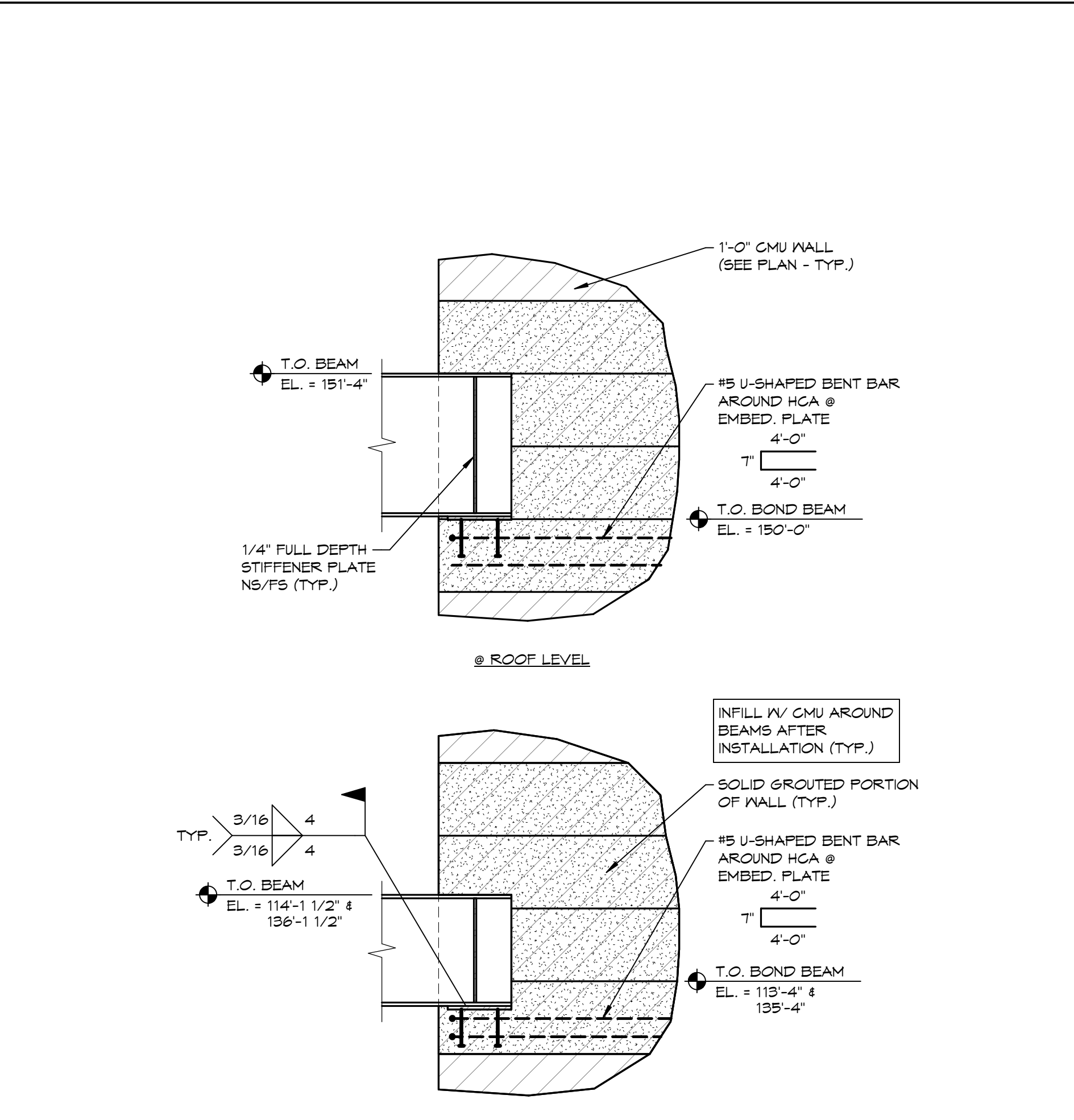
7 SECTION @ ROOF
 S407 1" = 1'-0"



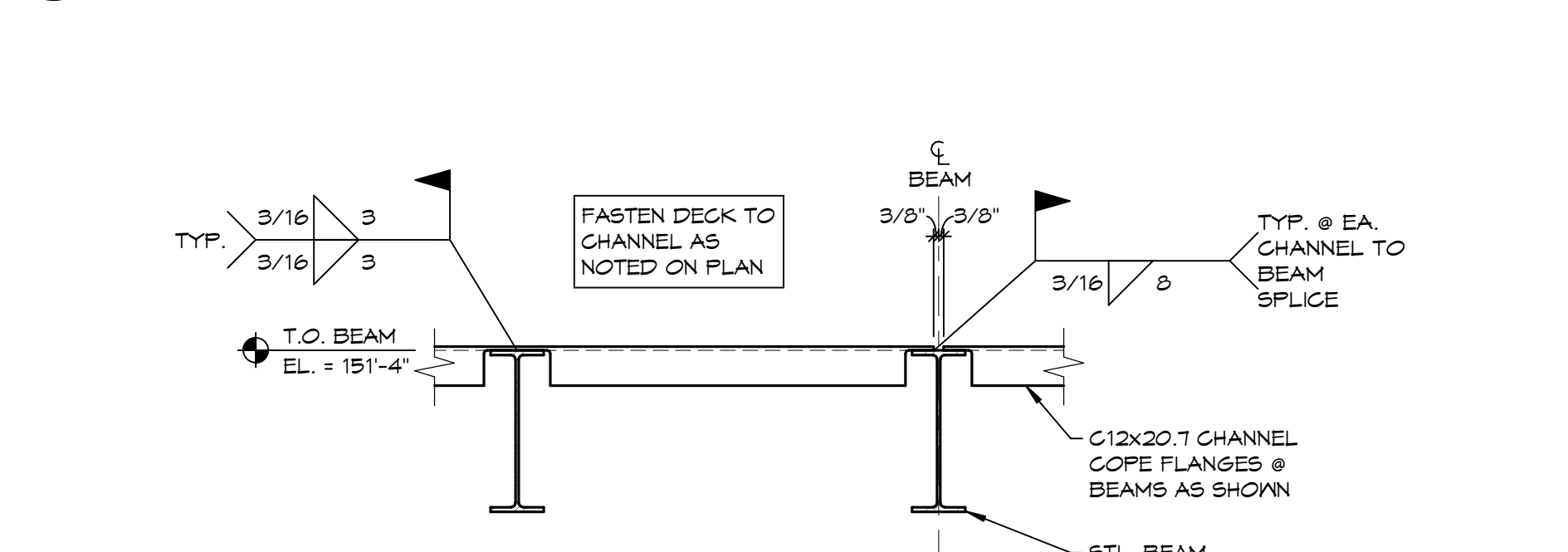
6 SECTION @ ROOF
 S407 1" = 1'-0"



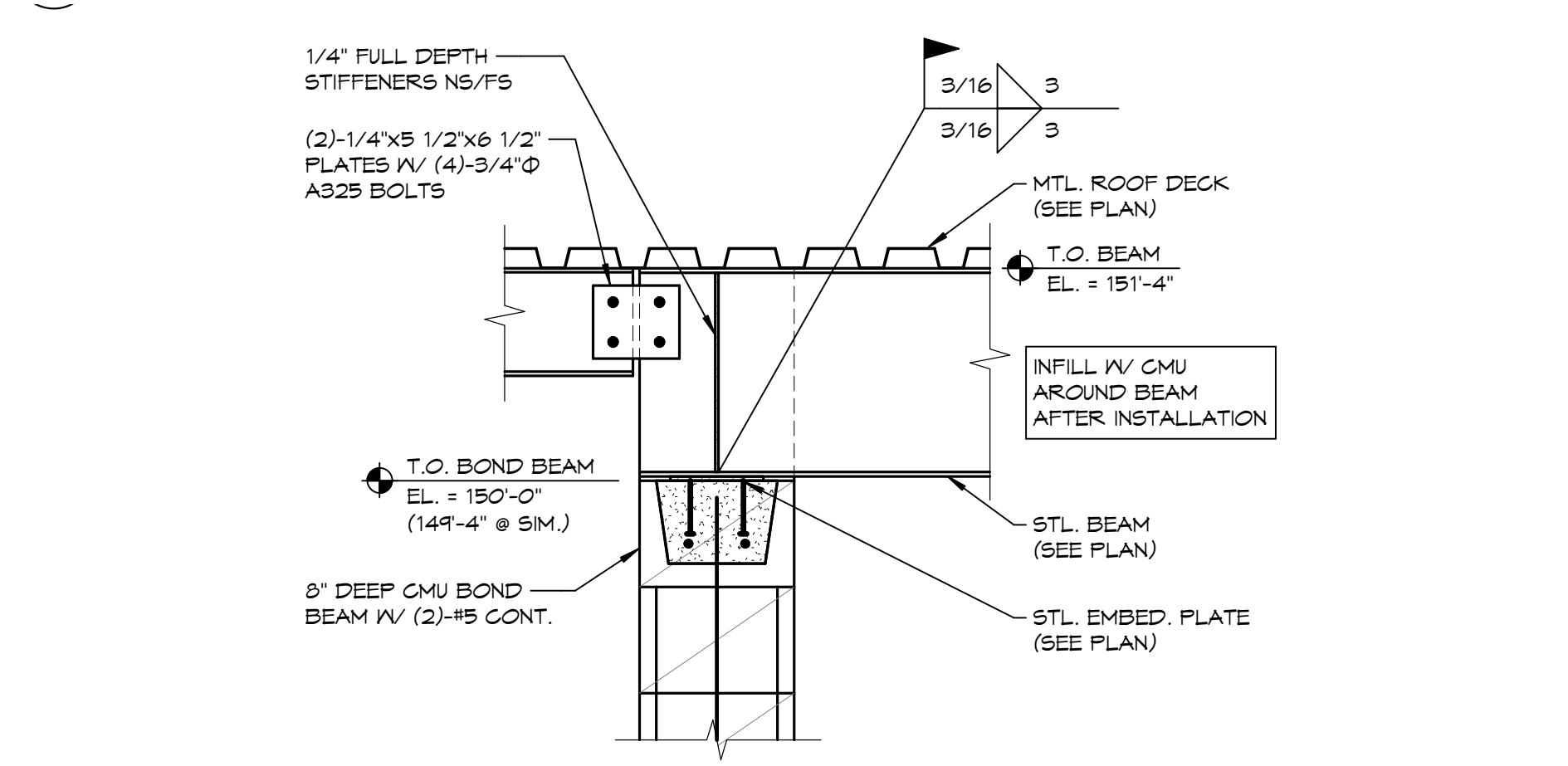
5 SECTION @ ROOF
 S407 1" = 1'-0"



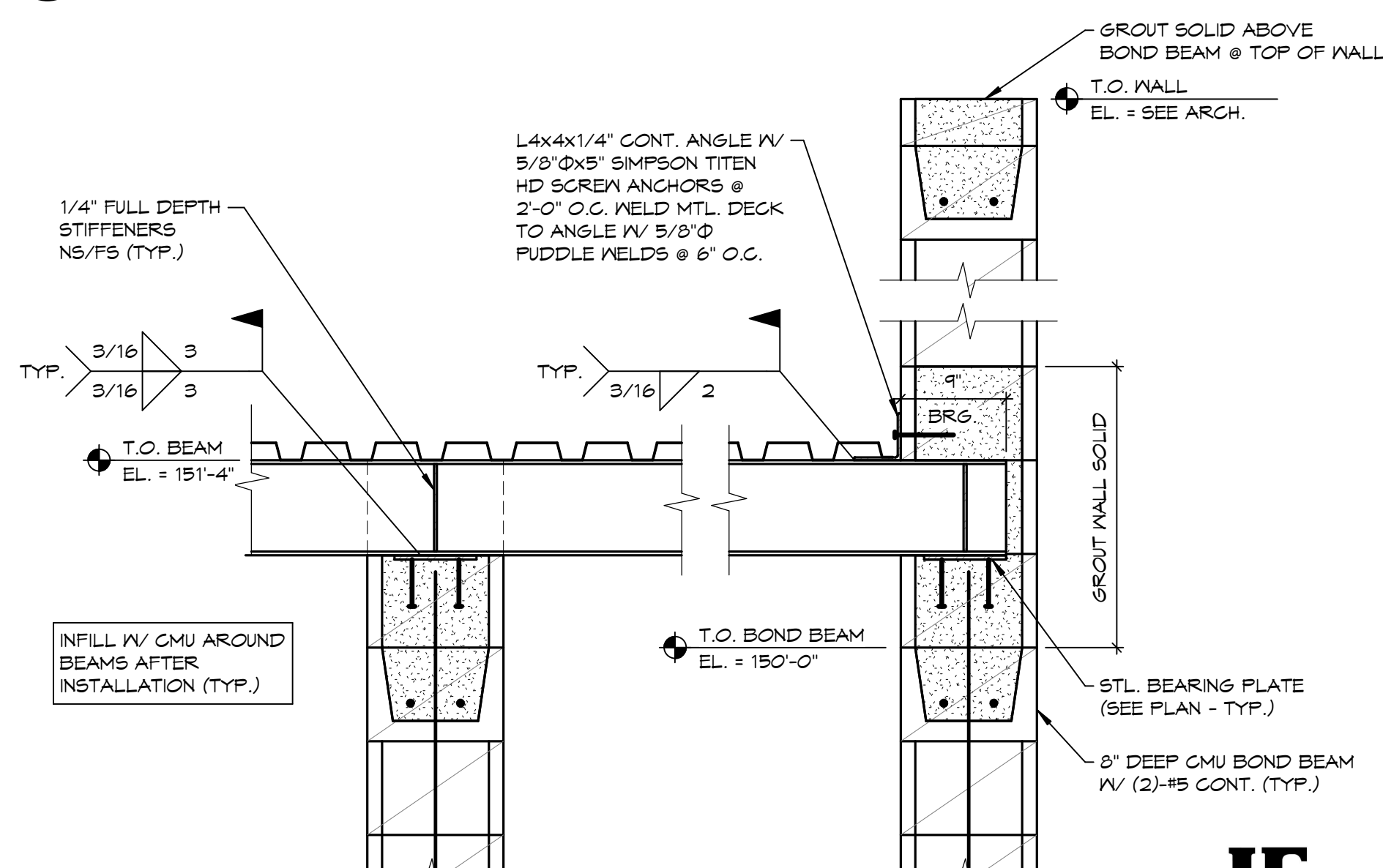
4 STL. BEAM-TO-CMU WALL CONNECTION
 S407 1" = 1'-0"



3 SECTION @ COPED CHANNEL
 S407 1" = 1'-0"



2 CONNECTION DETAIL
 S407 1" = 1'-0"



1 SECTION @ ROOF
 S407 1" = 1'-0"

BP01	BID PACKAGE 01	03/01/2022
MARK	DESCRIPTION	DATE

PROJECT NO: 20191170
DRAWN BY: CJK
CHECKED BY: DDN

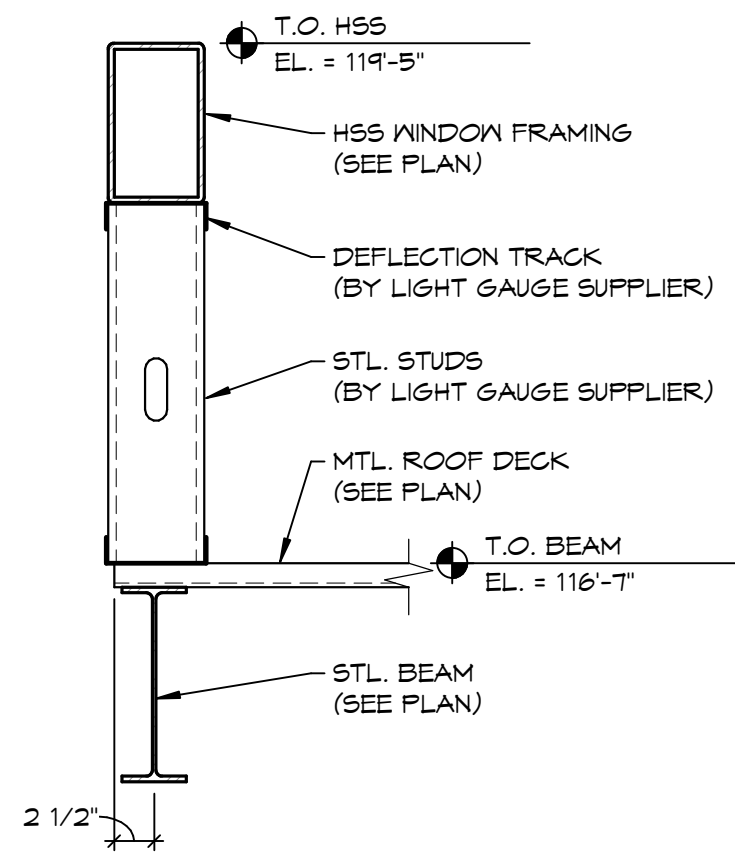
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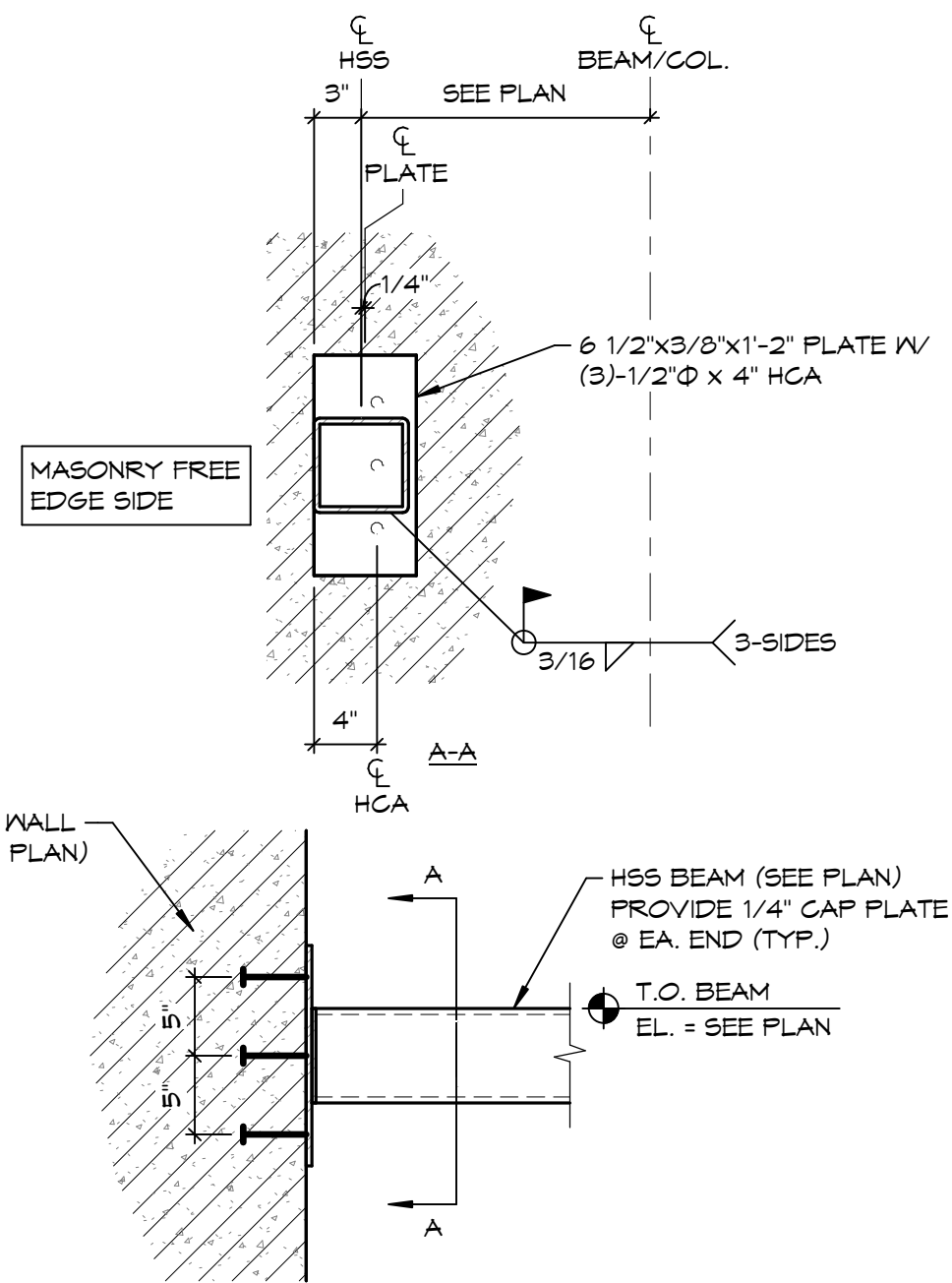


DRAWING TITLE
FRAMING DETAILS

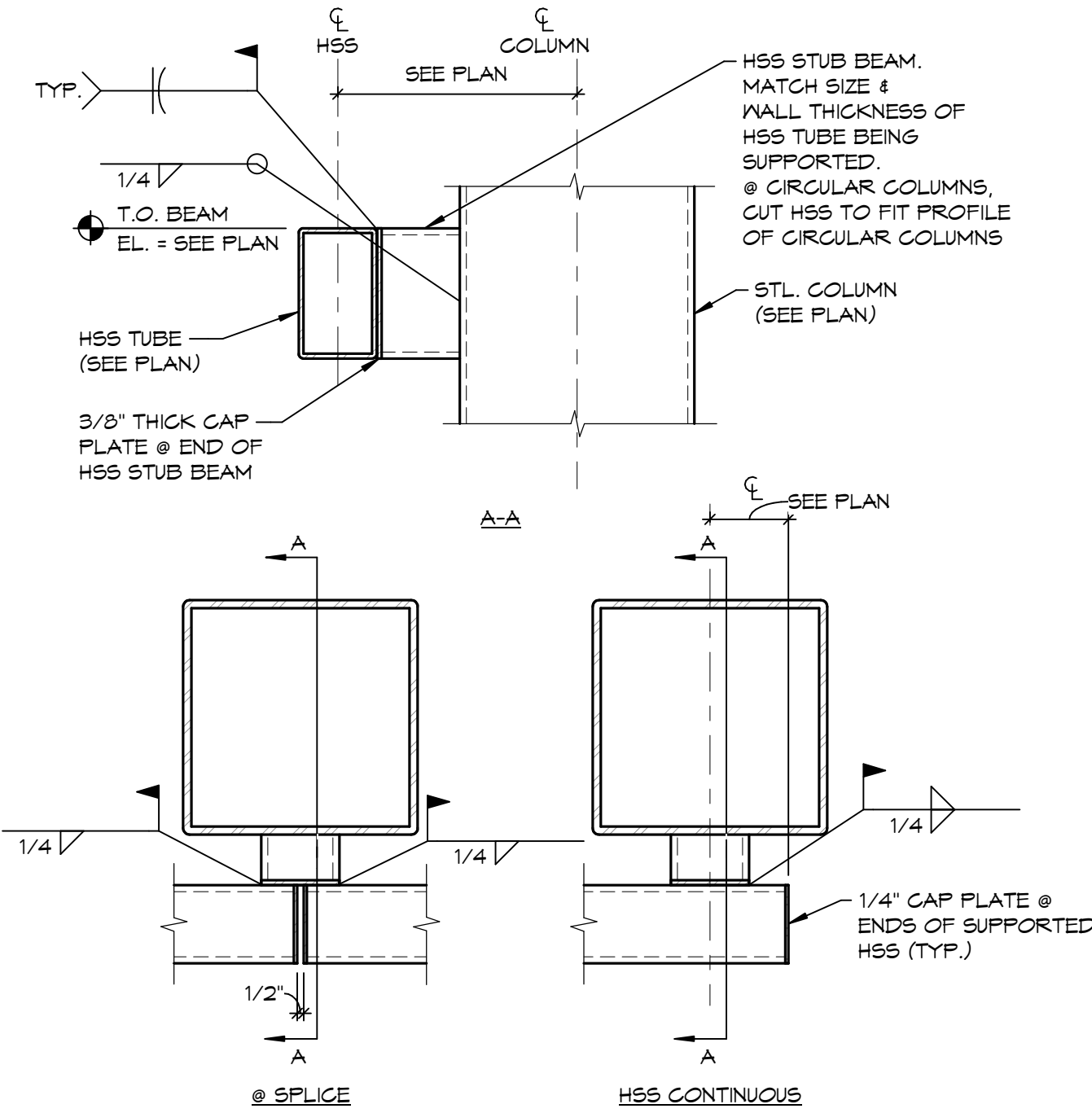
S408



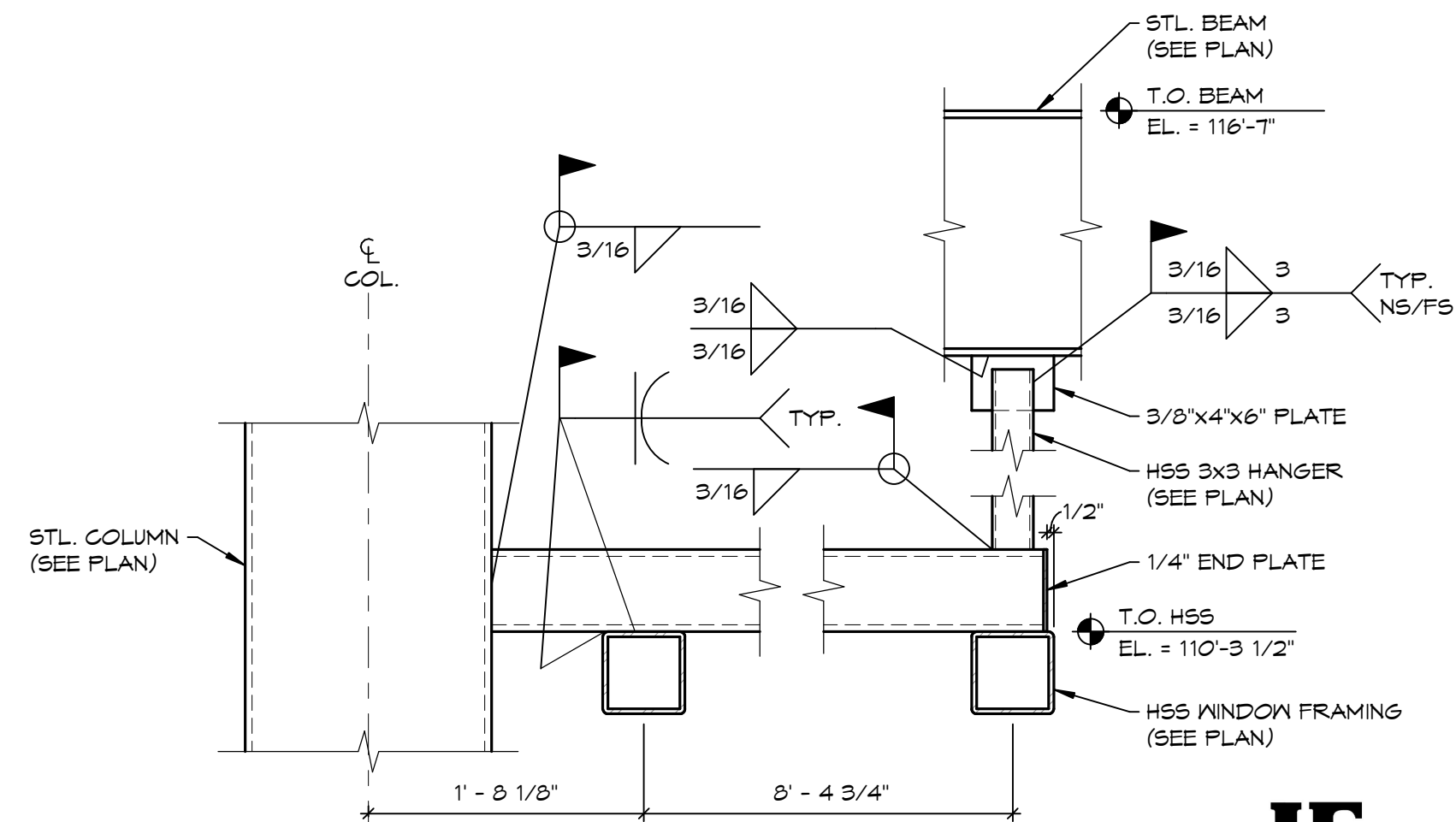
SECTION @ CANOPY ROOF
1" = 1'-0"



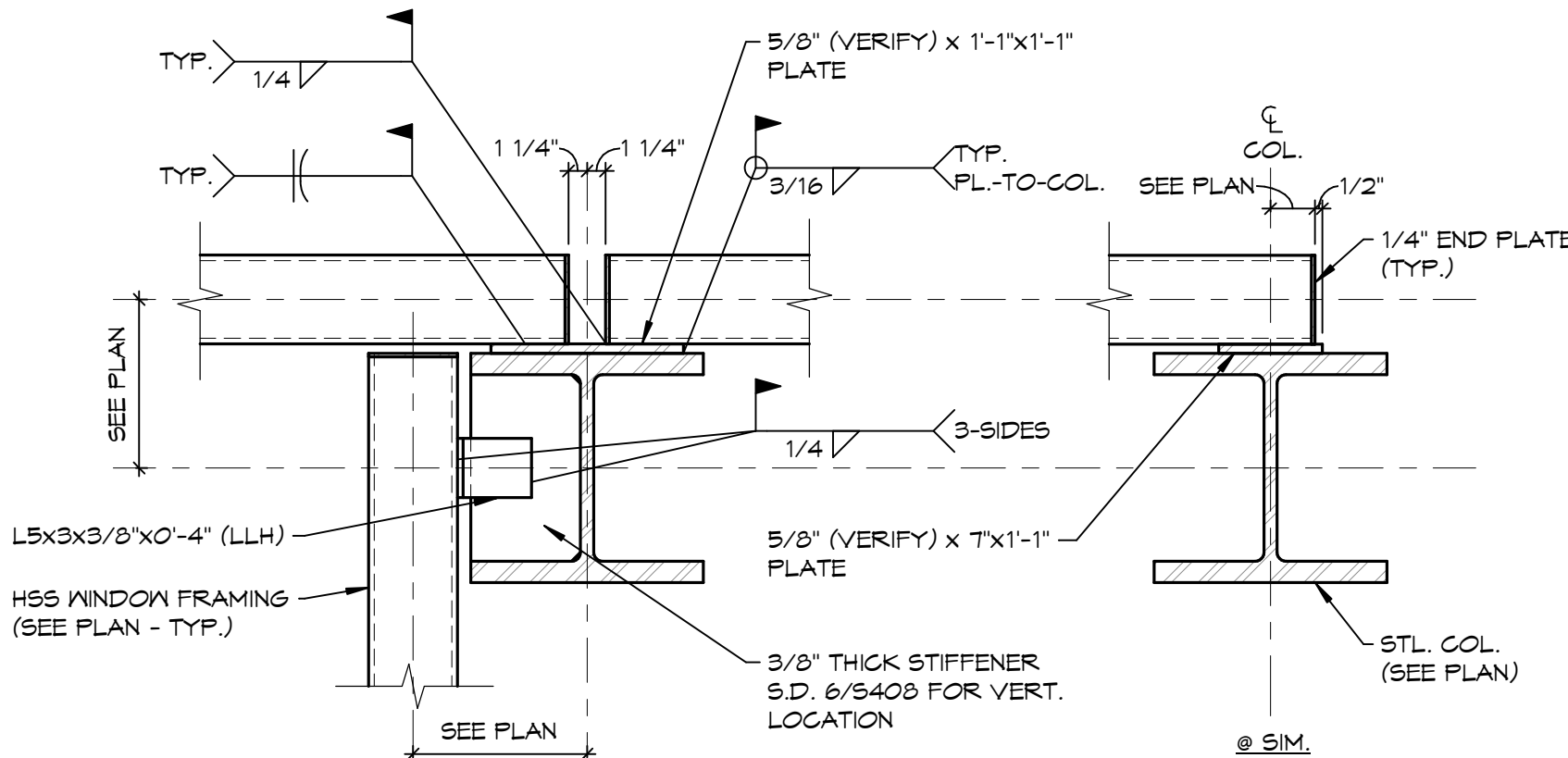
HSS-TO-CMU CONNECTION DETAIL
1" = 1'-0"



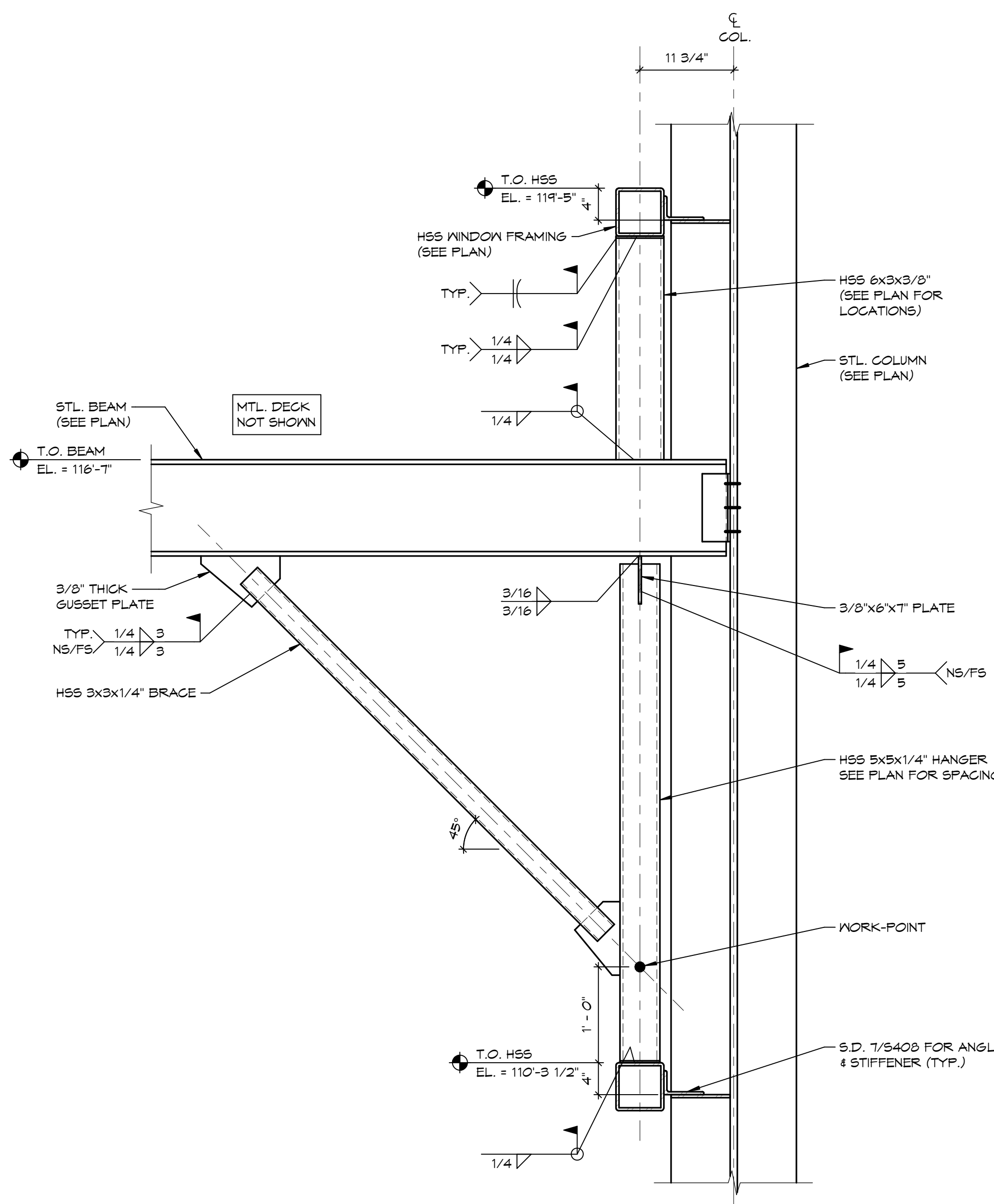
HSS WINDOW FRAMING SUPPORT DETAIL
1" = 1'-0"



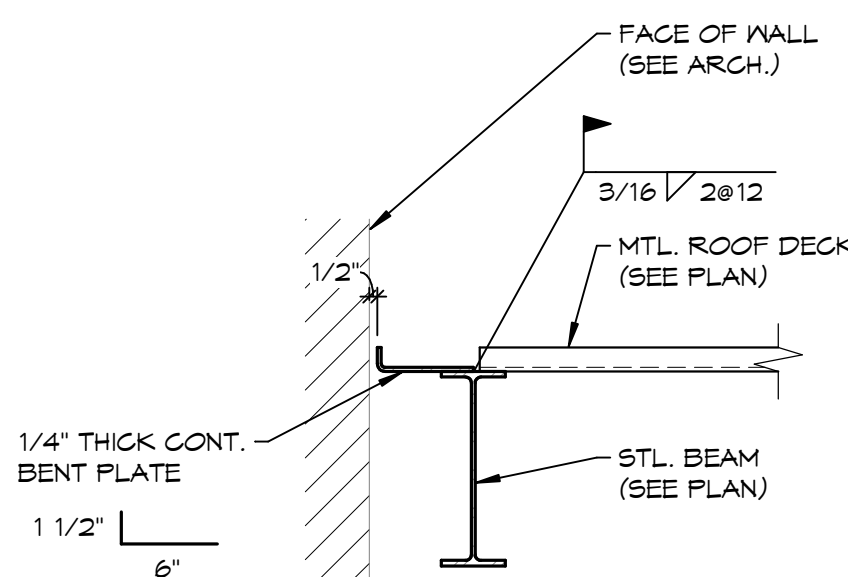
SECTION @ HSS WINDOW FRAMING
1" = 1'-0"



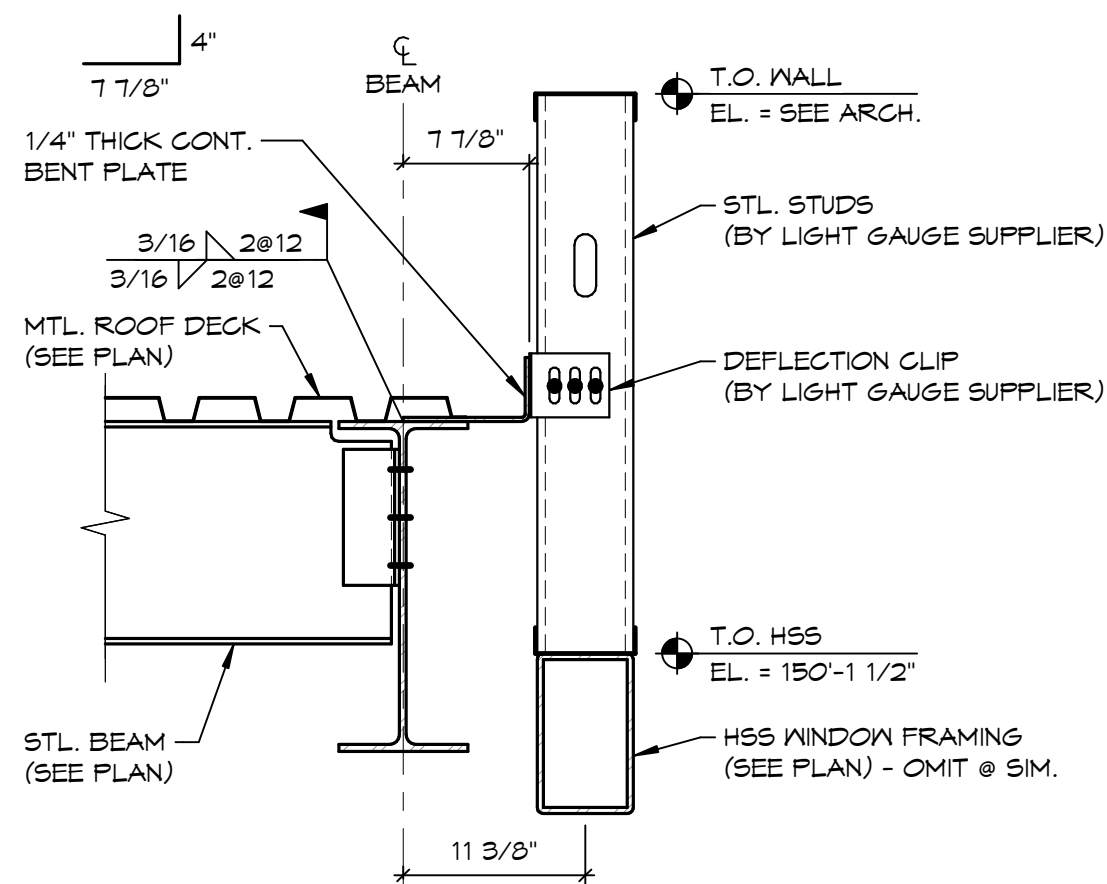
HSS WINDOW FRAMING CONNECTION DETAILS
1" = 1'-0"



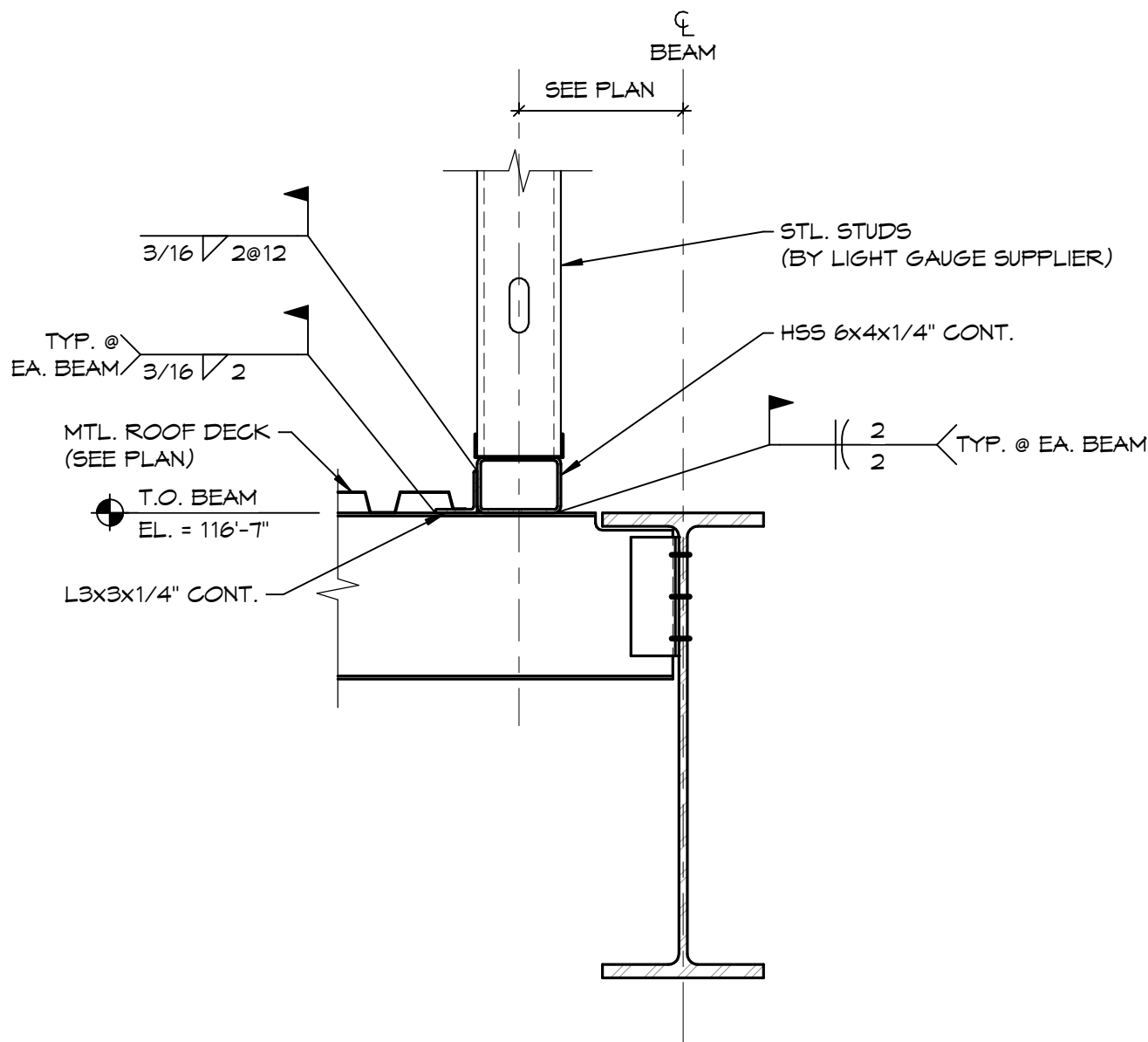
SECTION @ HSS WINDOW FRAMING
1" = 1'-0"



SECTION @ CANOPY ROOF
1" = 1'-0"



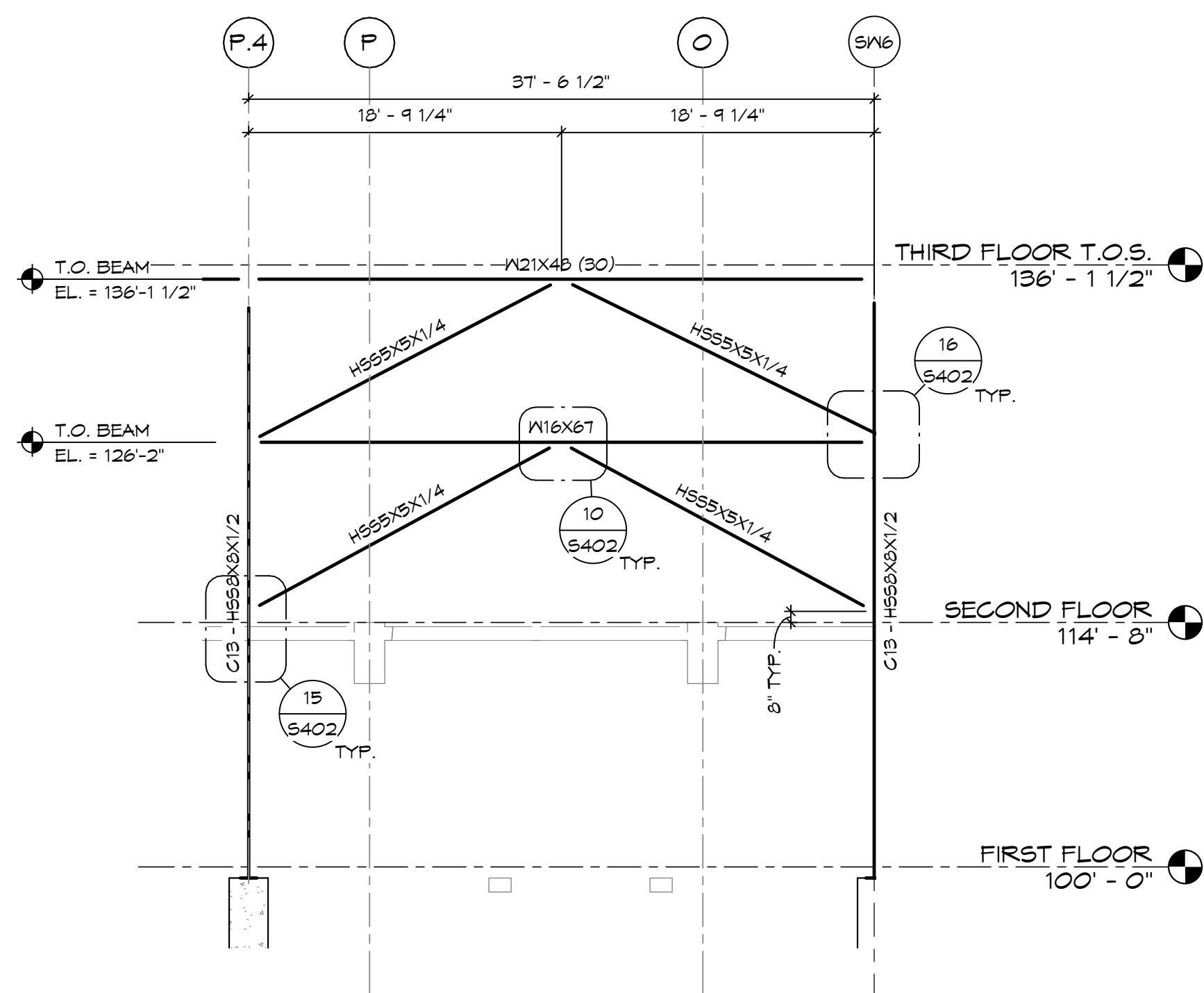
SECTION @ ROOF EDGE/HSS WINDOW FRAMING
1" = 1'-0"



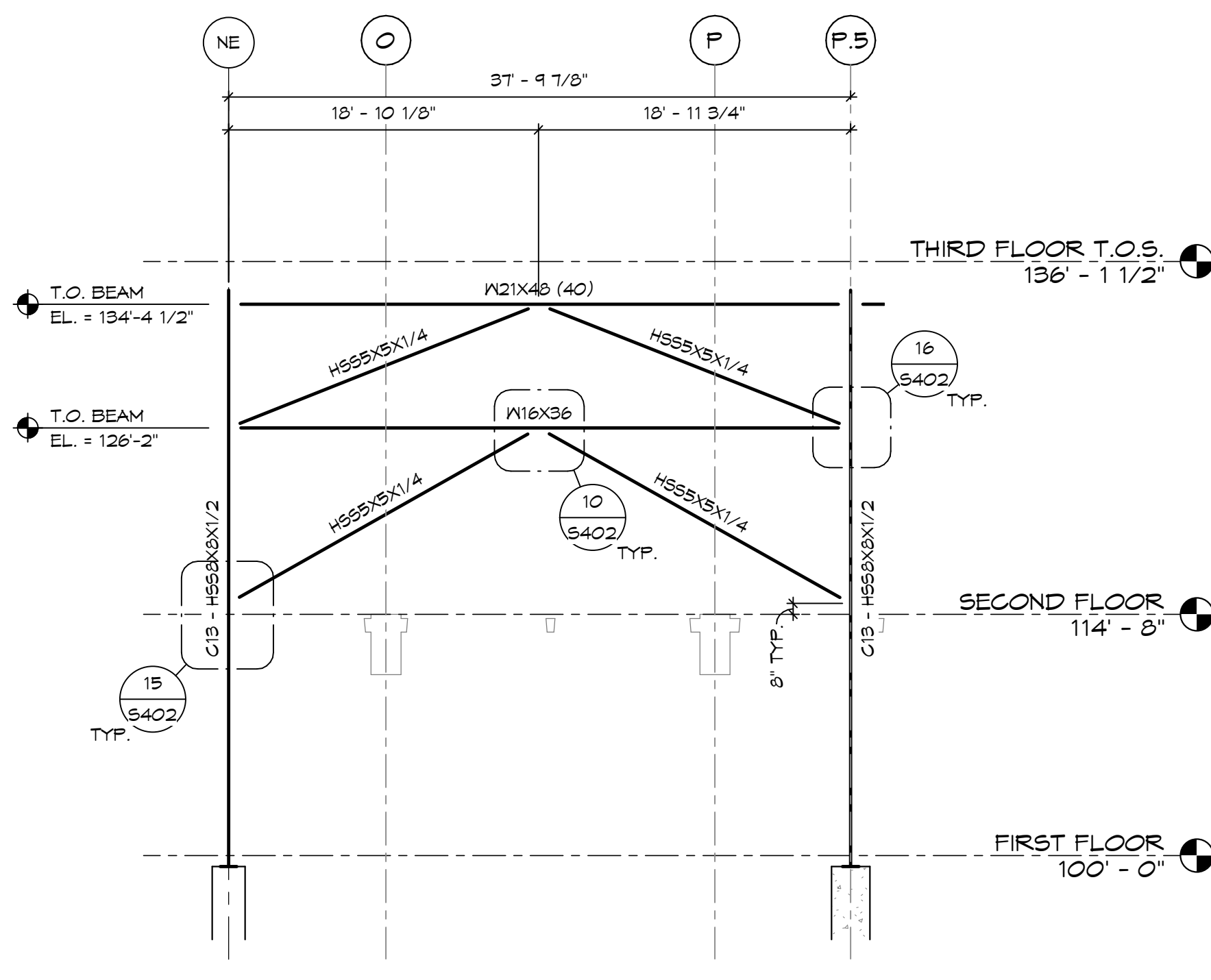
SECTION @ CANOPY ROOF
1" = 1'-0"

SHEET NOTES:

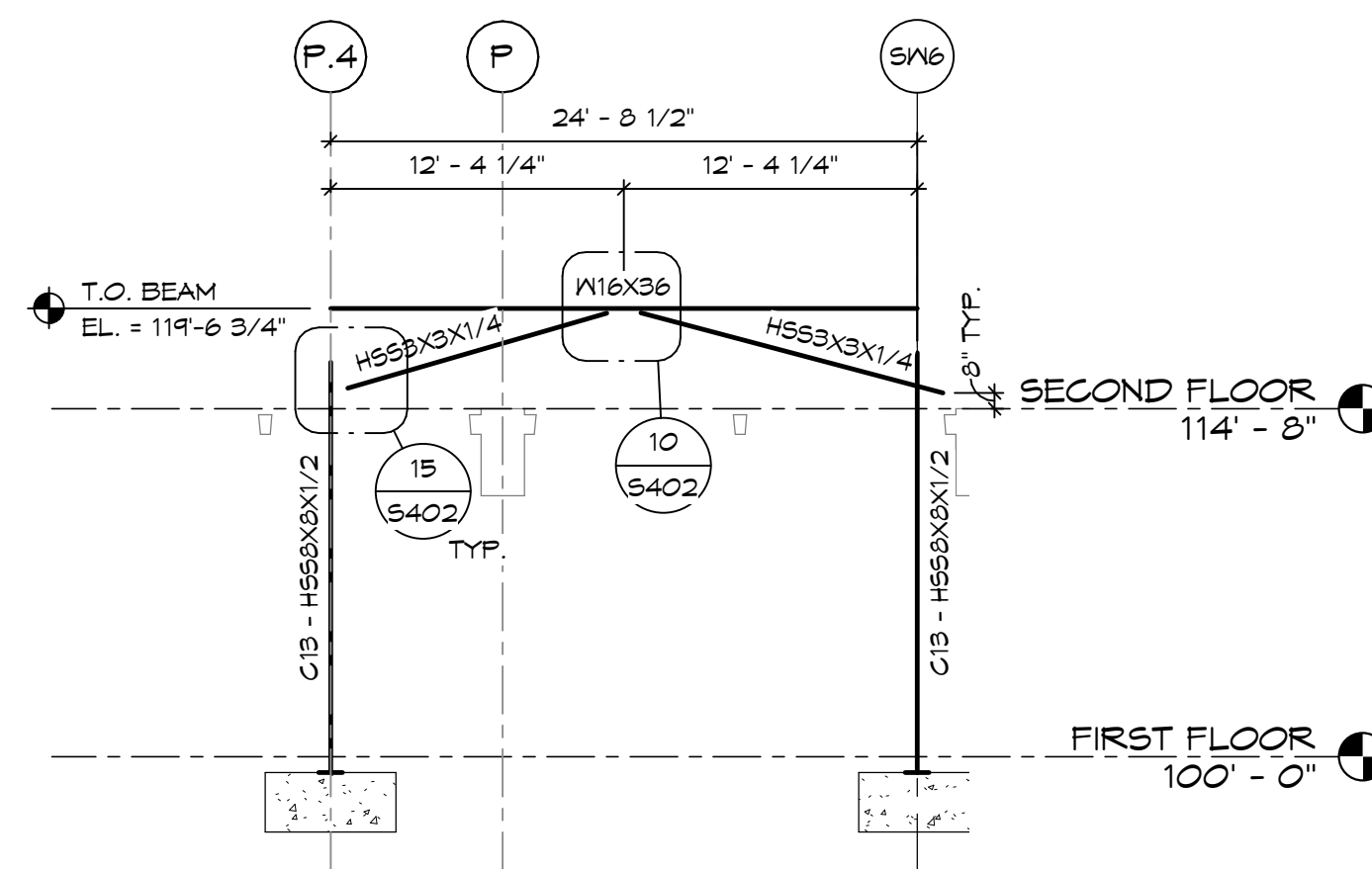
- ALL LINES DENOTE CENTERLINE OF BEAM/BRACE/COLUMN.
- U.O.N. BRACED FRAME CONNECTION DETAILS SHOWN ARE SCHEMATIC. ALL BRACED FRAME CONNECTIONS TO BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH DAKOTA. CALCULATIONS SHALL BE SUBMITTED IN STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW BY THE ENGINEER OF RECORD.
- ALL FORCES NOTED ARE LRFD.
- U.O.N. ALL BRACE FORCES TO BE 10K (T/C).



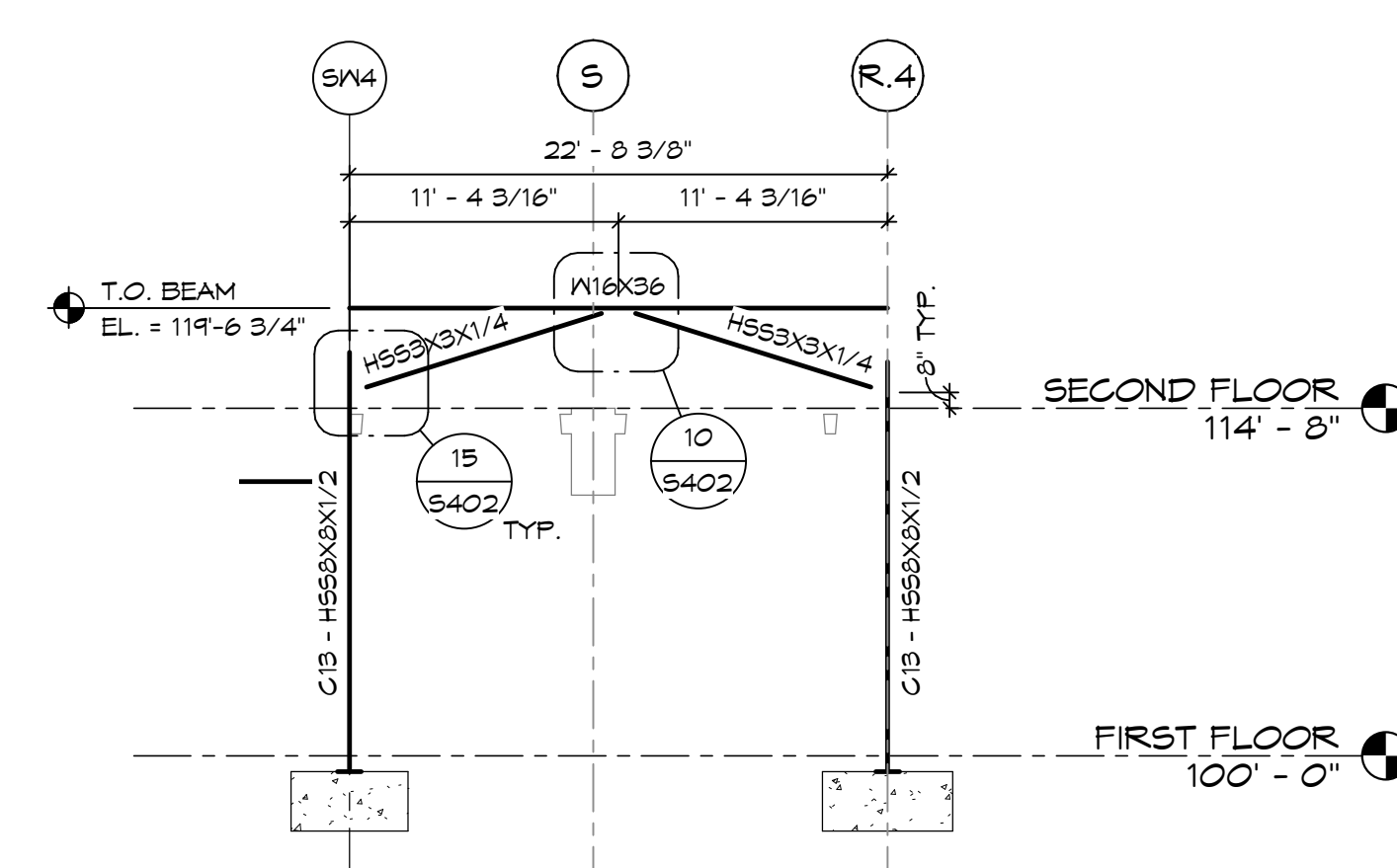
12 BRACED FRAME ELEVATION @ GRID 12.9
S501 1/8" = 1'-0"



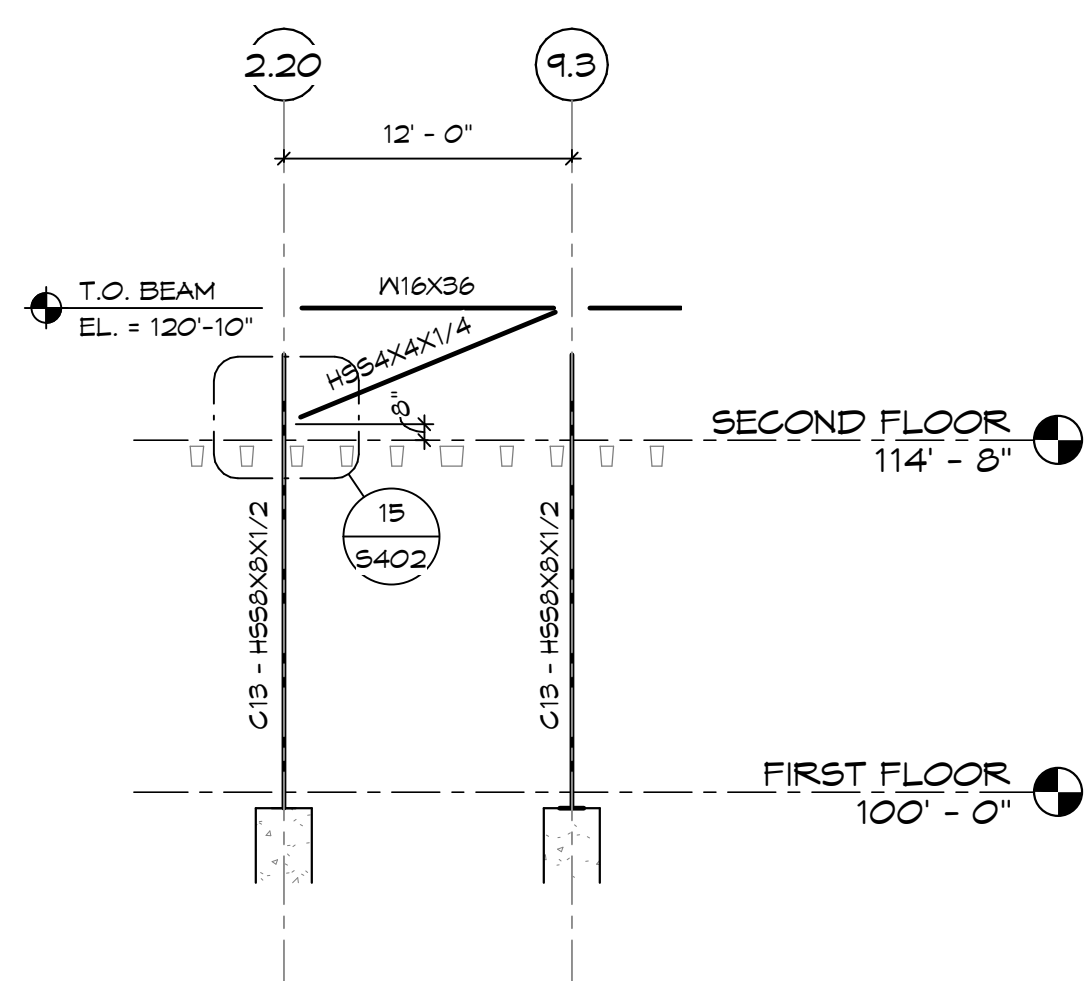
11 BRACED FRAME ELEVATION @ GRID 1.1
S501 1/8" = 1'-0"



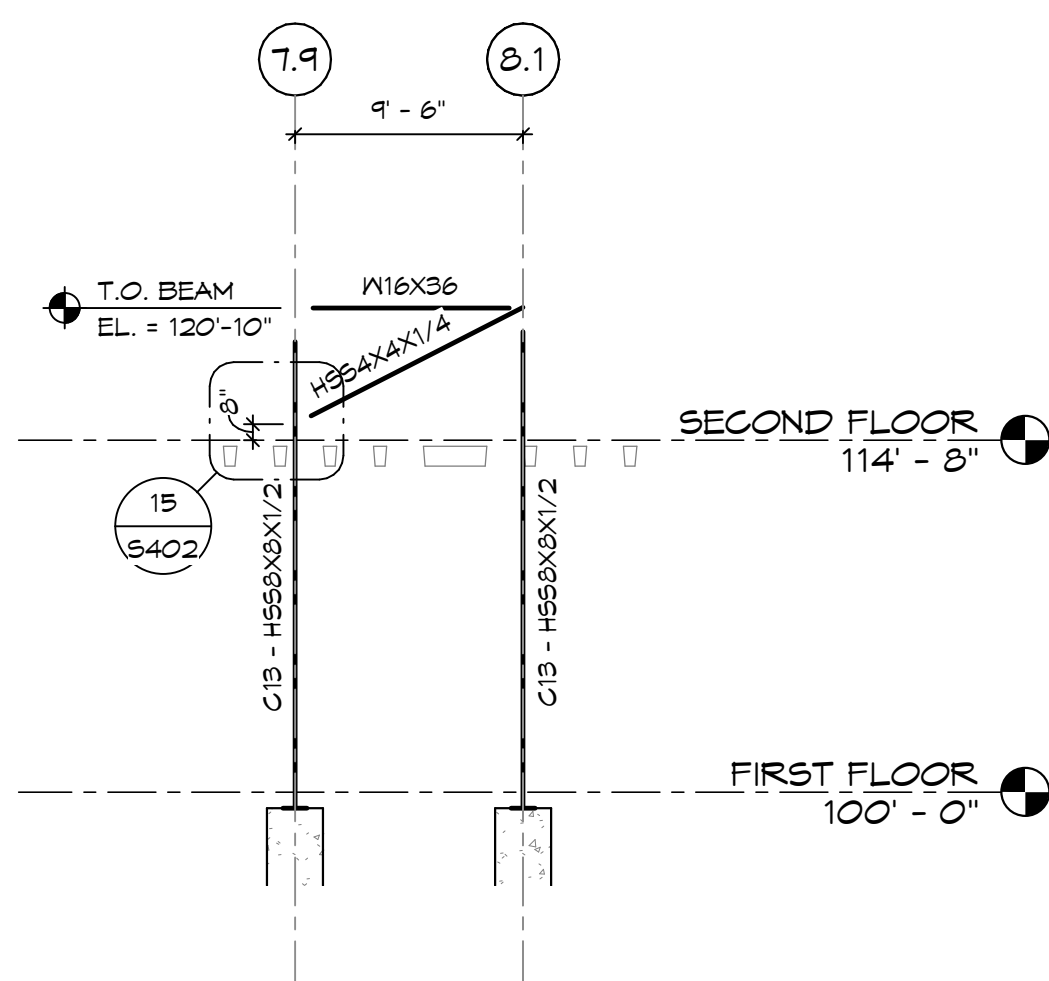
10 BRACED FRAME ELEVATION @ GRID 11.5
S501 1/8" = 1'-0"



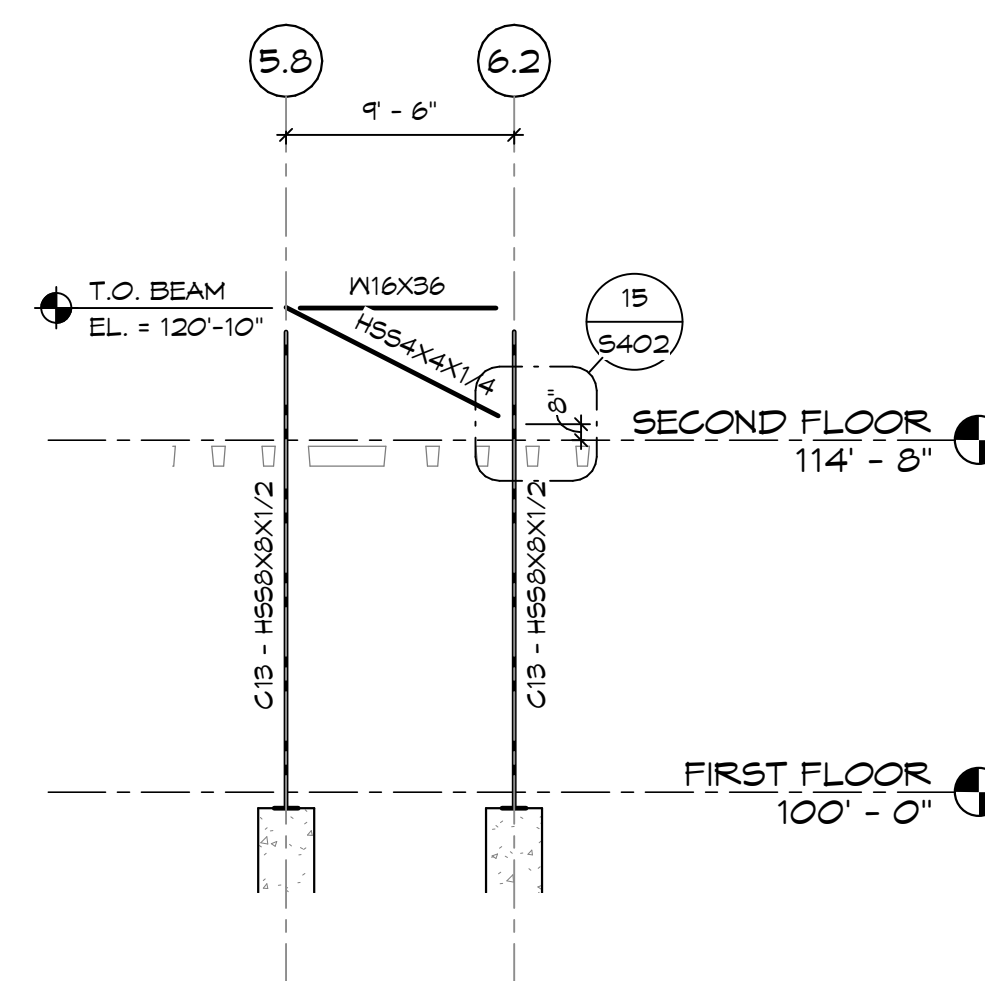
9 BRACED FRAME ELEVATION @ GRID 11.5
S501 1/8" = 1'-0"



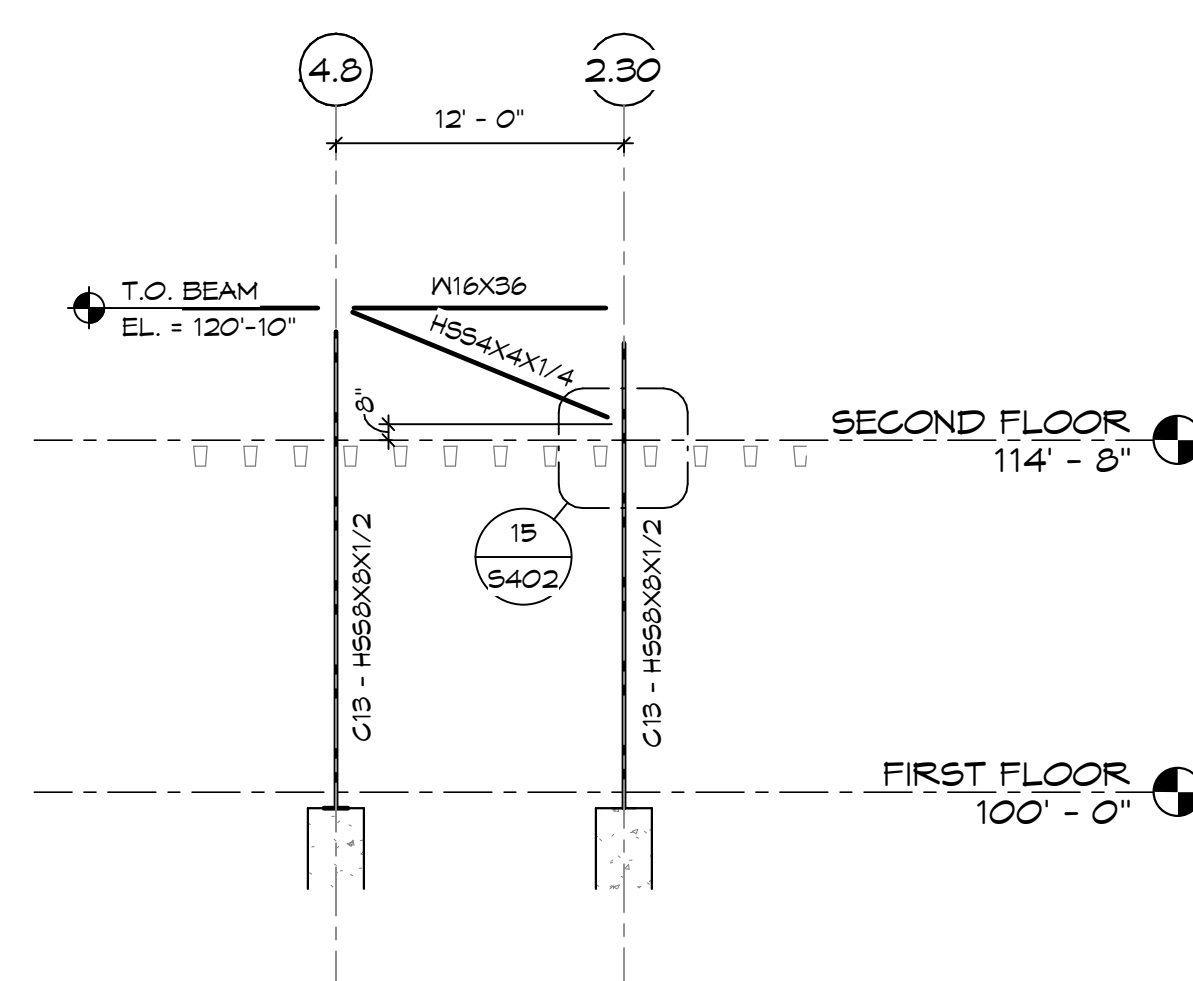
8 BRACED FRAME ELEVATION @ GRID T.9
S501 1/8" = 1'-0"



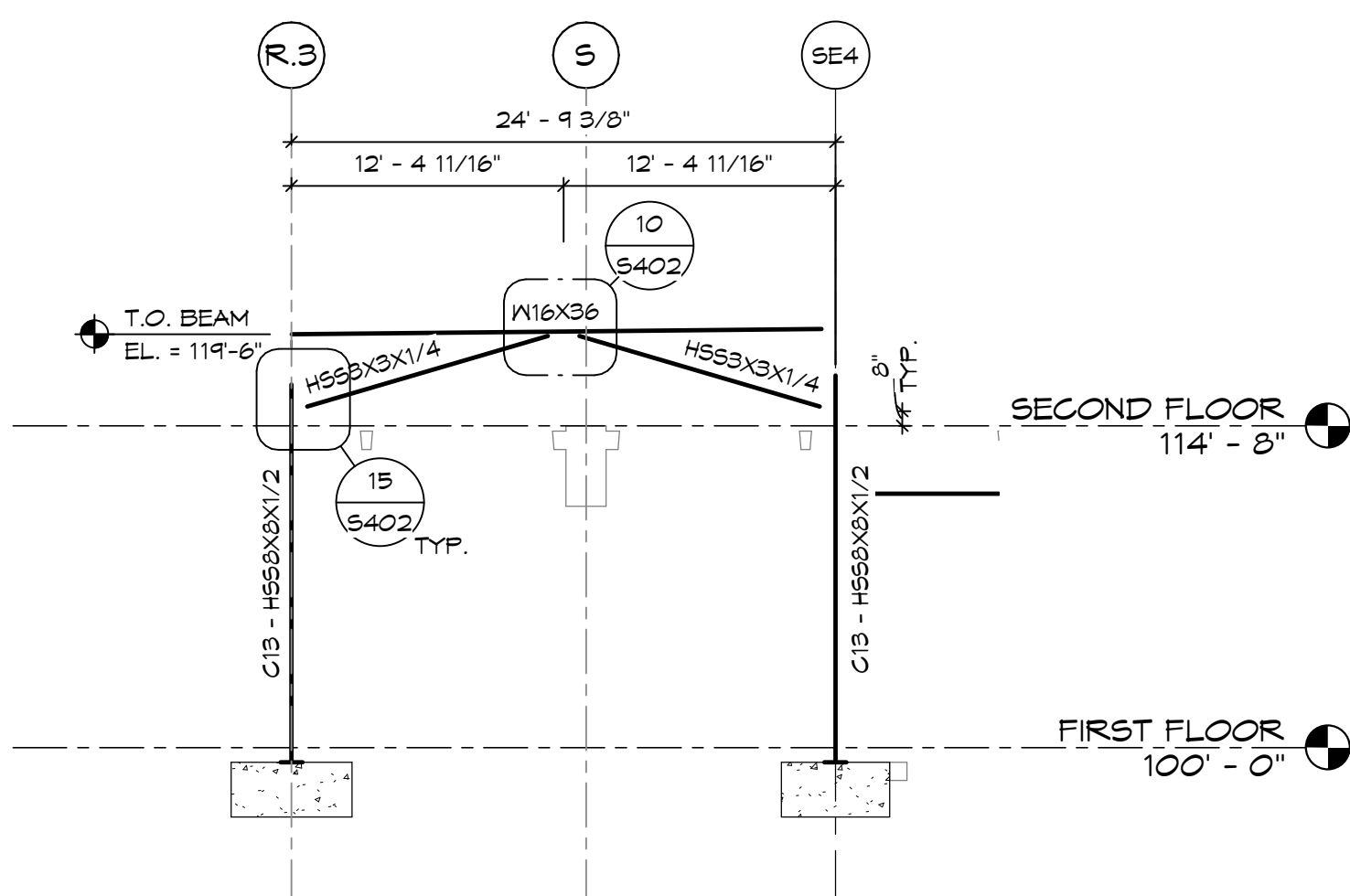
7 BRACED FRAME ELEVATION @ GRID T.9
S501 1/8" = 1'-0"



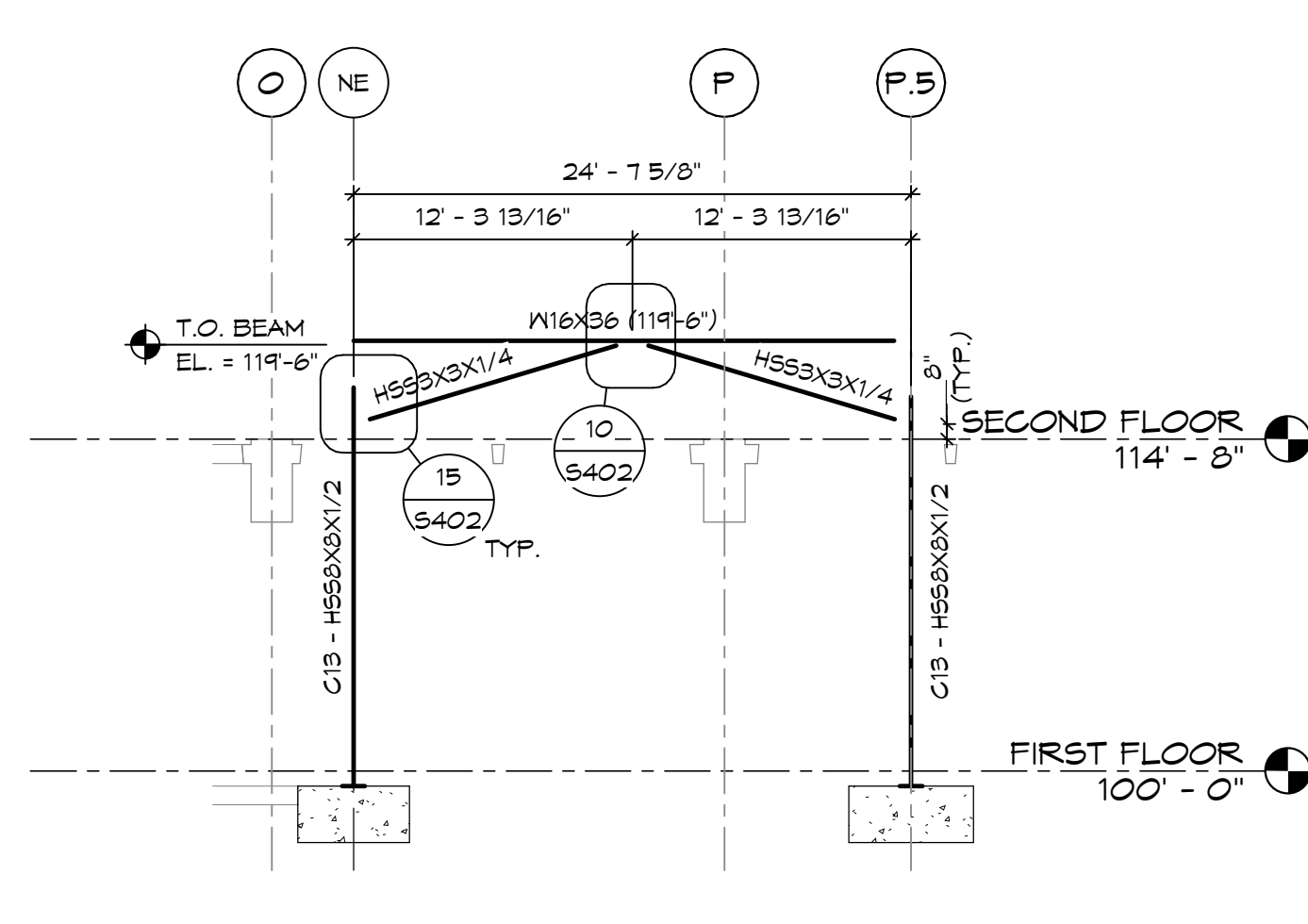
6 BRACED FRAME ELEVATION @ GRID T.9
S501 1/8" = 1'-0"



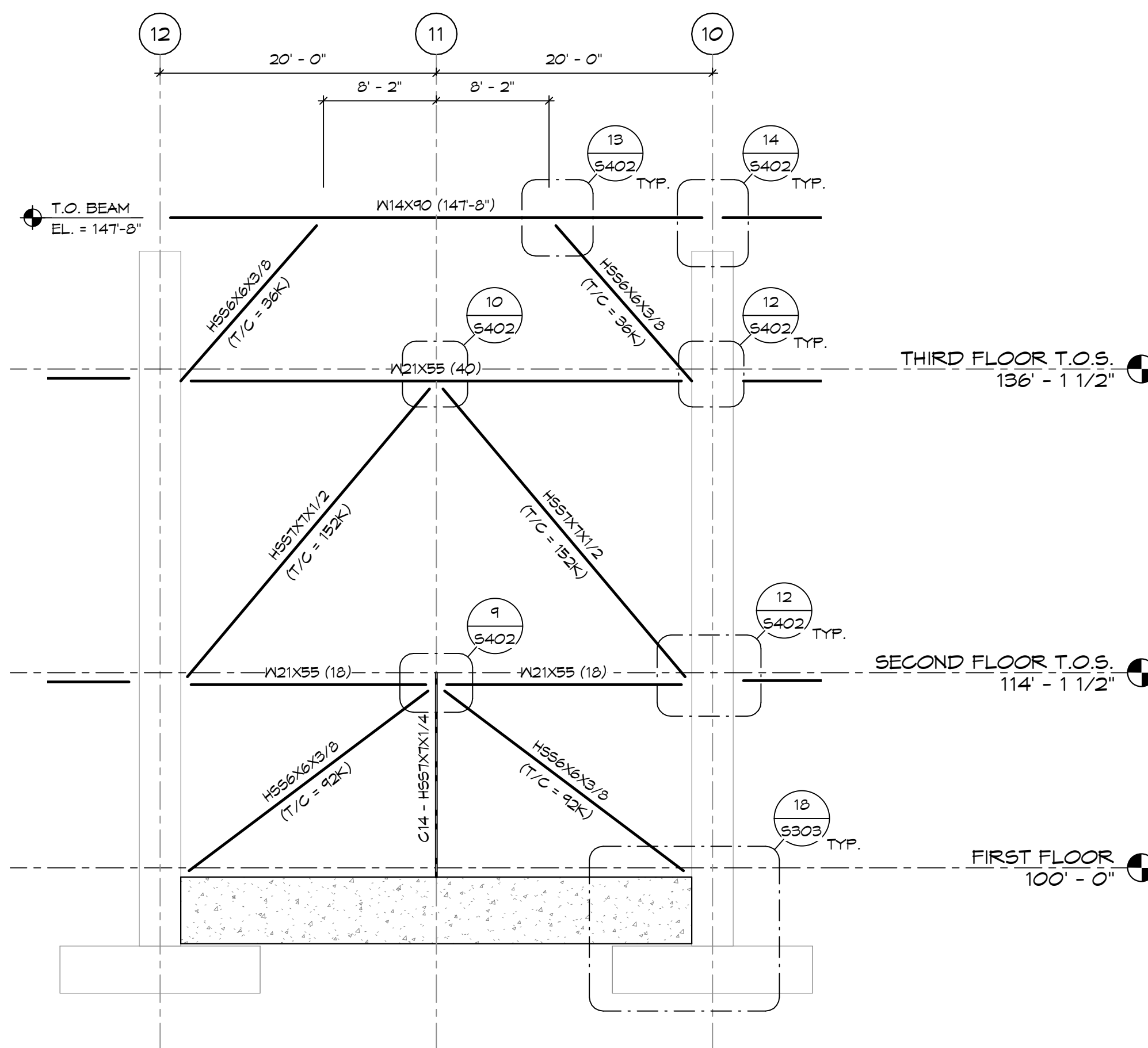
5 BRACED FRAME ELEVATION @ GRID T.9
S501 1/8" = 1'-0"



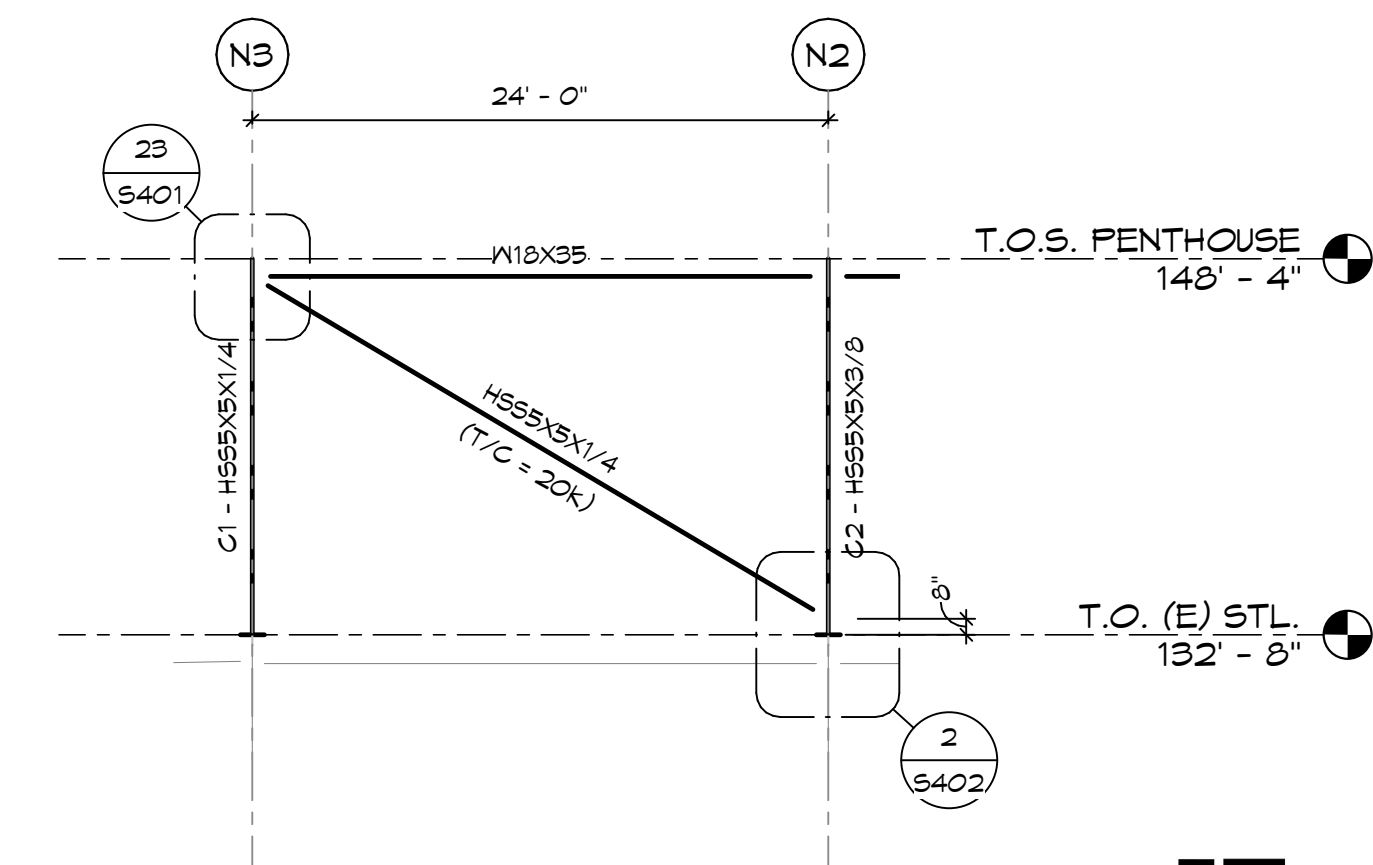
4 BRACED FRAME ELEVATION @ GRID 2.7
S501 1/8" = 1'-0"



3 BRACED FRAME ELEVATION @ GRID 2.7
S501 1/8" = 1'-0"



2 BRACED FRAME ELEVATION @ GRID W
S501 1/8" = 1'-0"



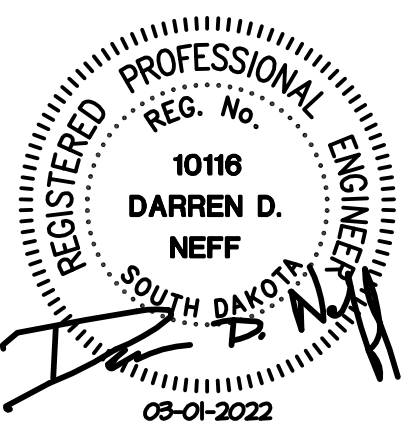
1 BRACED FRAME ELEVATION
S501 1/8" = 1'-0" (@ GRID AA & LL)

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MARK	DESCRIPTION	DATE

PROJECT NO: 20191170
 DRAWN BY: CJK
 CHECKED BY: DDN

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DRAWING TITLE
 HSS WINDOW FRAMING PLANS

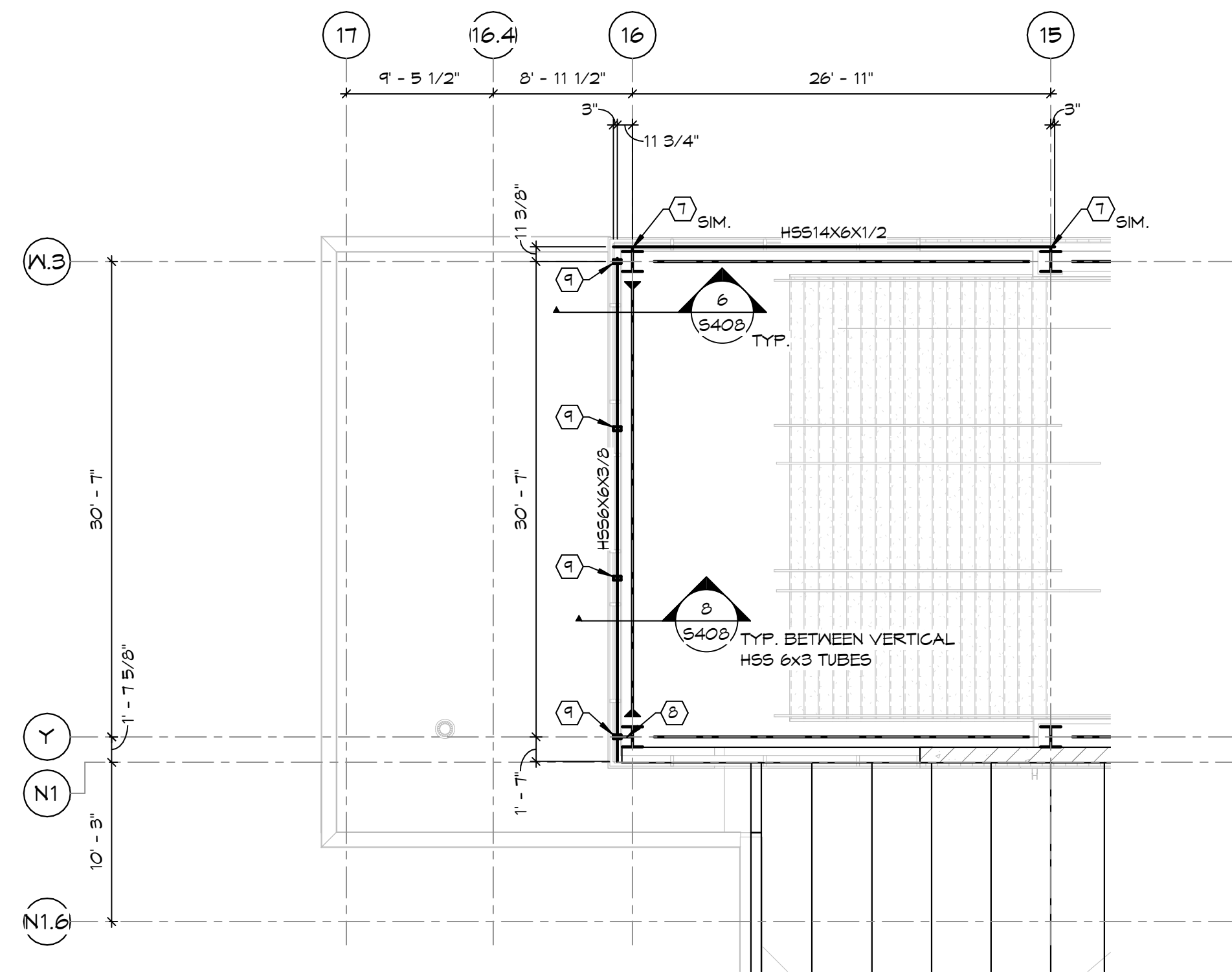
S601

SHEET NOTES:

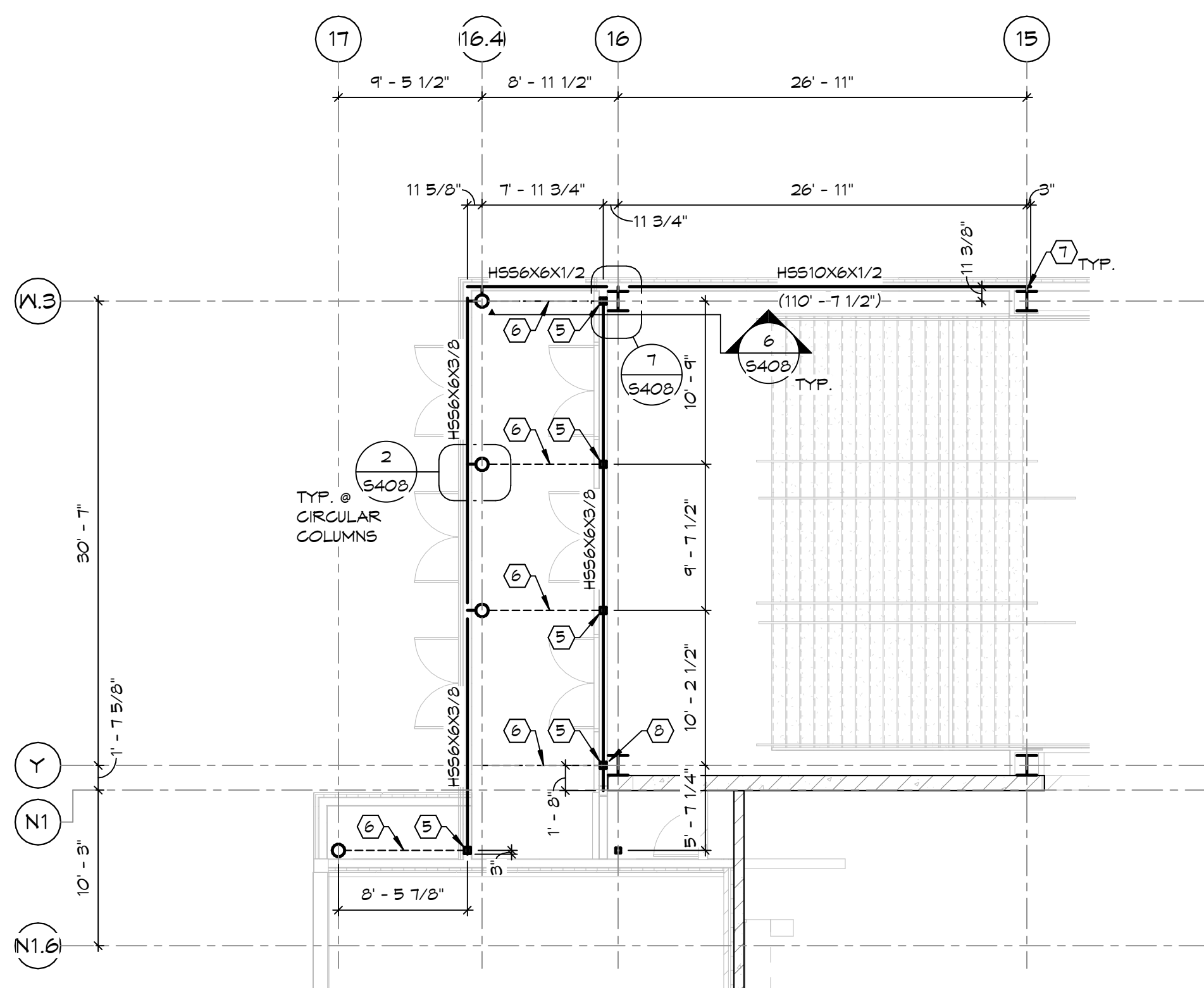
1. VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

KEY NOTES:

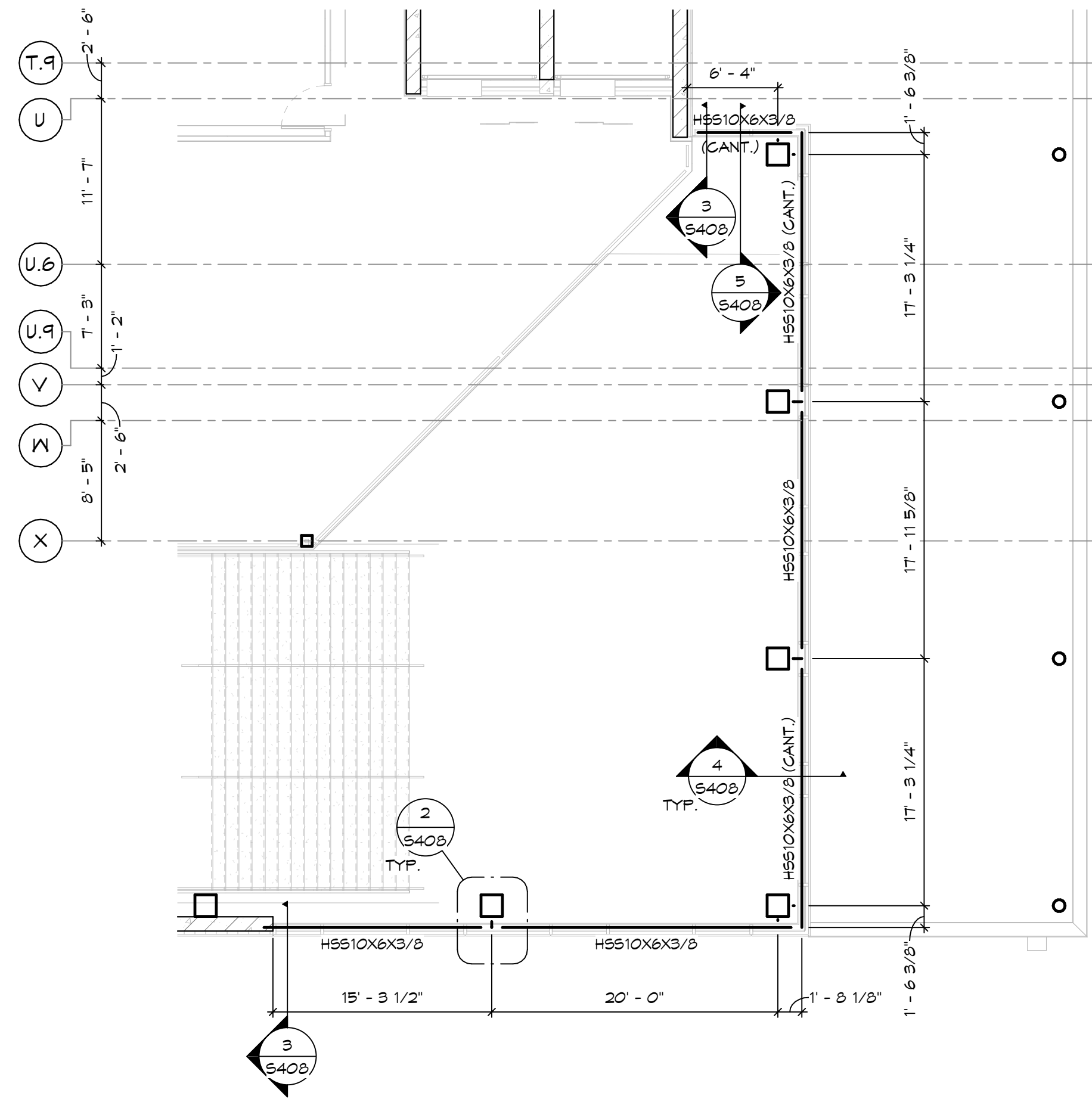
- HSS 3X3X1/4" HANGER UP TO CANOPY BEAM ABOVE.
- HSS 6X6X3/8" BEAM, T.O. BEAM EL. = 110'-9 1/2".
- HSS 3X3X1/4" DIAGONAL BRACE, S.D. 16/5407.
- PROVIDE SUPPORT HAUNCH SIM. TO DETAIL 2/5408.
- HSS 5X5X1/4" HANGER UP TO BEAM ABOVE, S.D. 6/5408.
- HSS 3X3X1/4" DIAGONAL BRACE, S.D. 6/5408.
- S.D. 1/5408 FOR CONNECTION TO COLUMN.
- PROVIDE STIFFENER & ANGLE CONNECTION @ COLUMN AS SHOWN IN DETAIL 1/5408.
- HSS 6X3 BETWEEN BEAM BELOW AND HSS 6X6, S.D. 6/5408.



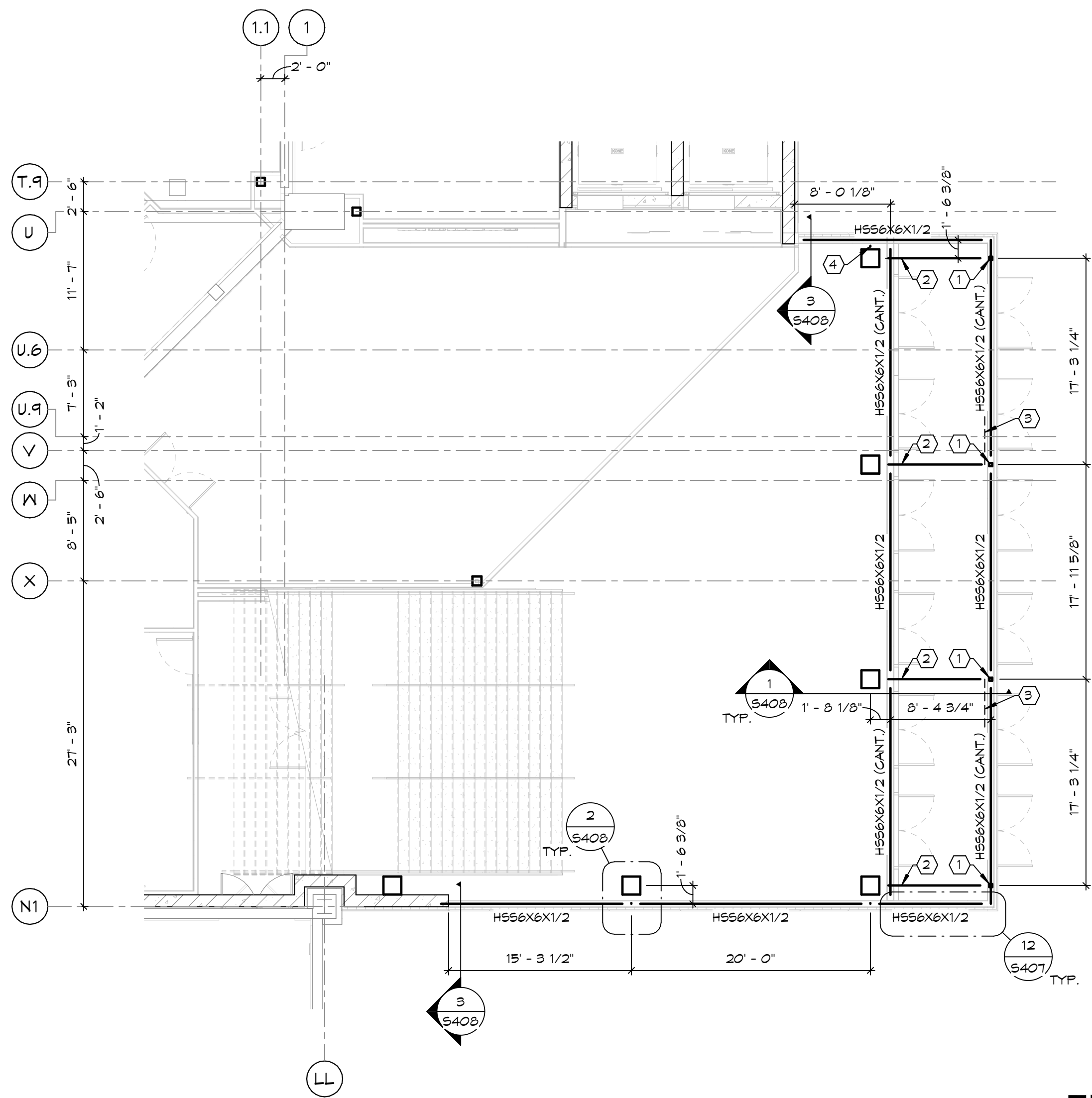
4 HSS WINDOW FRAMING PLAN
 1/8" = 1'-0" T.O. STL. EL. = 119'-5" (U.O.N.)



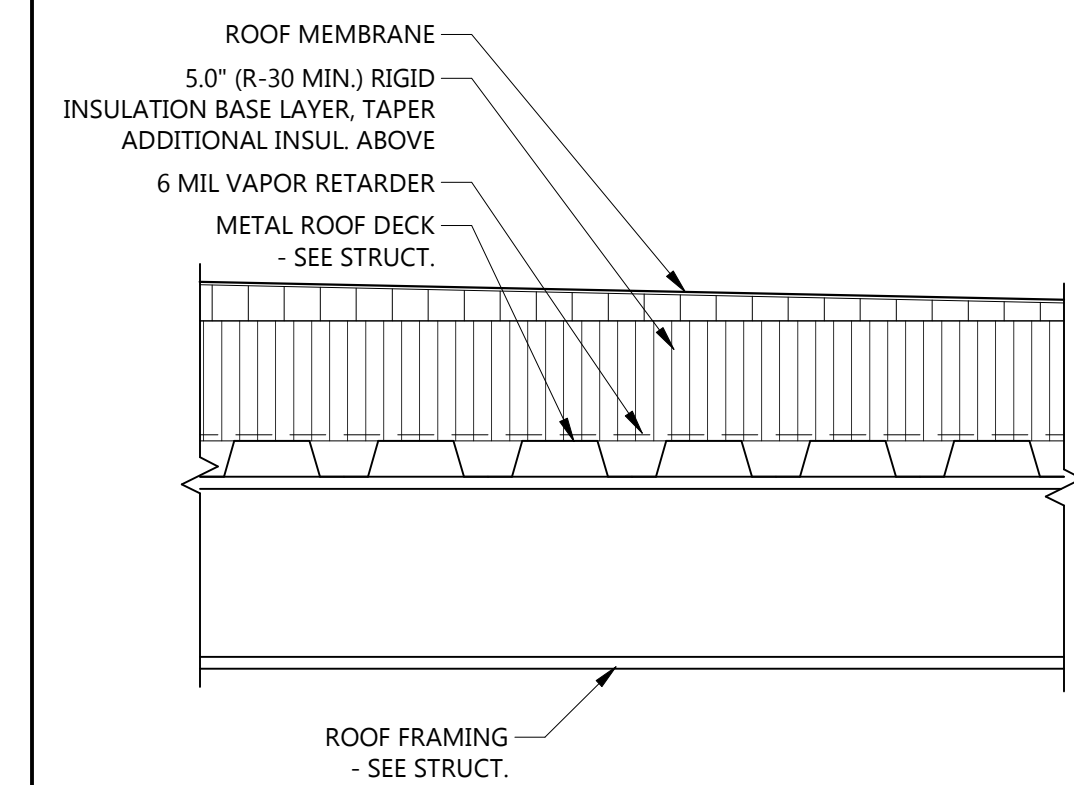
3 HSS WINDOW FRAMING PLAN
 1/8" = 1'-0" T.O. STL. EL. = 110'-3 1/2" (U.O.N.)



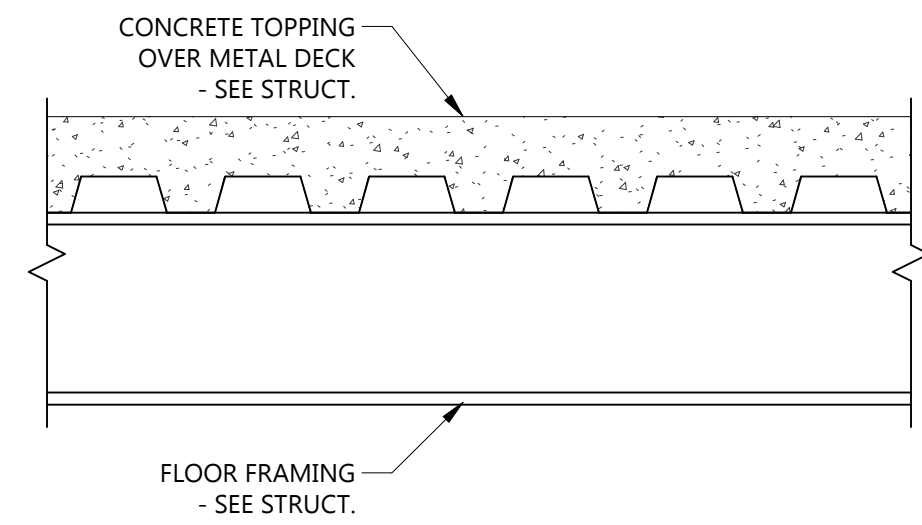
2 HSS WINDOW FRAMING PLAN
 1/8" = 1'-0" T.O. STL. EL. = 119'-5" (U.O.N.)



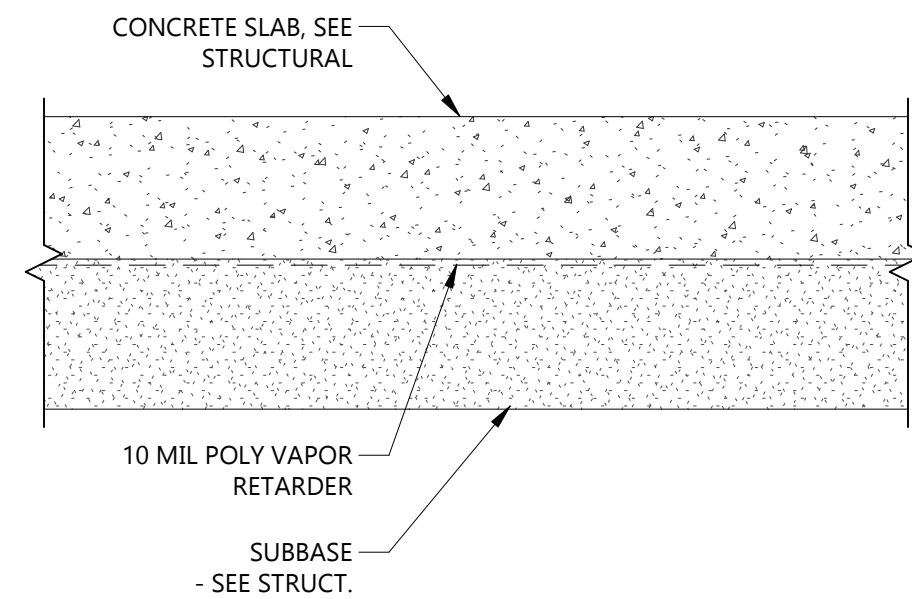
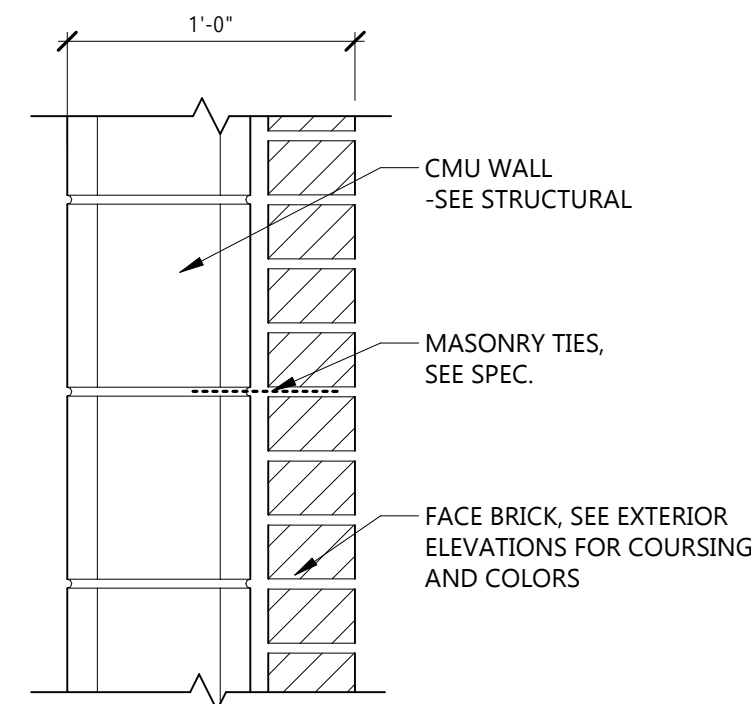
1 HSS WINDOW FRAMING PLAN
 1/8" = 1'-0" T.O. STL. EL. = 110'-3 1/2" (U.O.N.)



1 ROOF ASSEMBLY TYPE 1

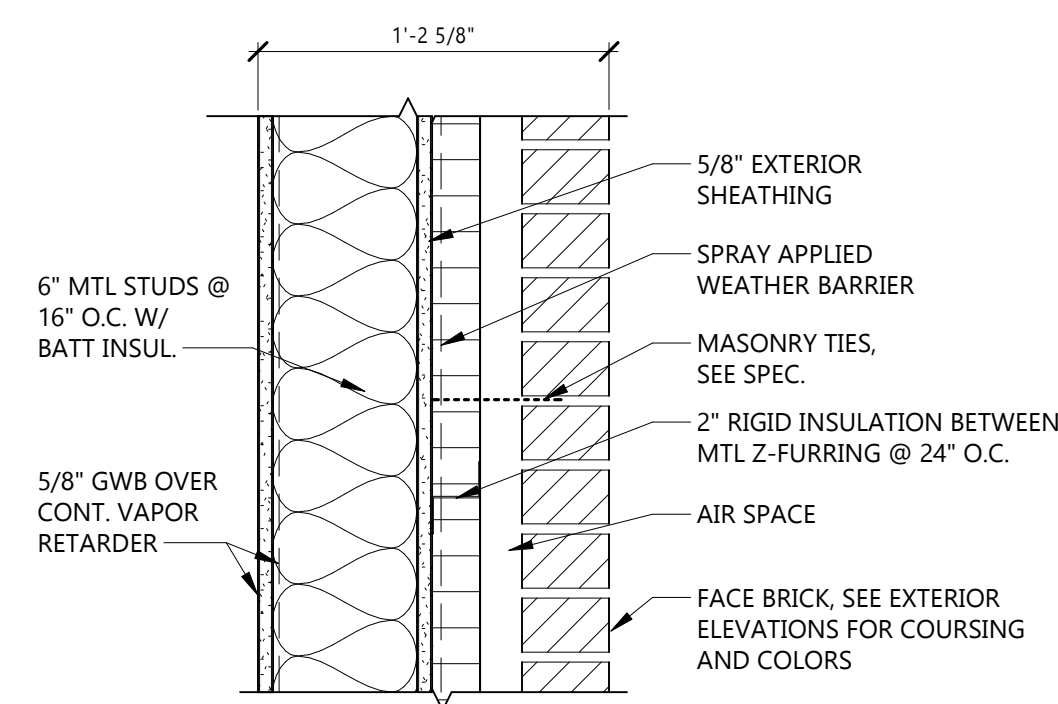


2 FLOOR ASSEMBLY TYPE 2

1 FLOOR ASSEMBLY TYPE 1
(TYPICAL AT SLAB-ON-GRADE AREA)

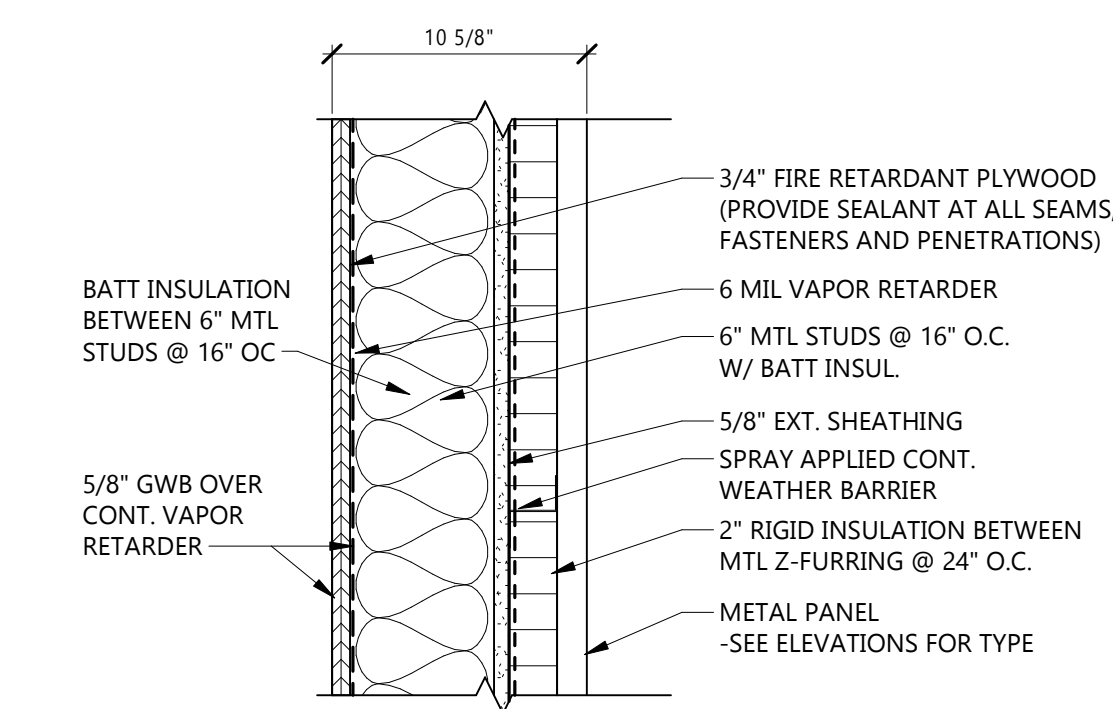
SEE ELEVATIONS AND SECTIONS FOR COURSING

E4 EXTERIOR BRICK ON CMU BACKUP (TRASH ENCLOSURE)



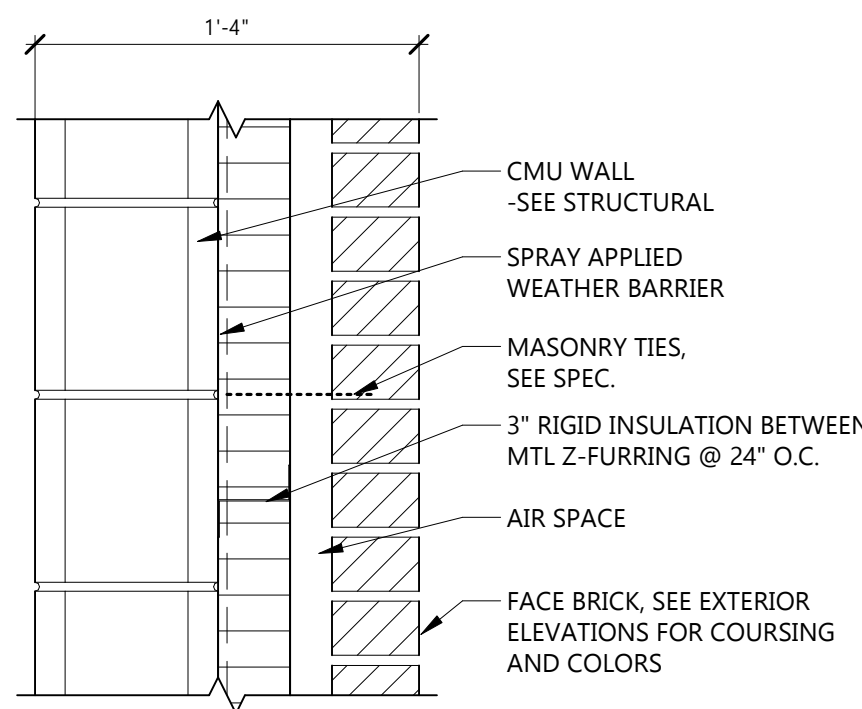
SEE ELEVATIONS AND SECTIONS FOR COURSING

E5 EXTERIOR BRICK ON STUD BACKUP



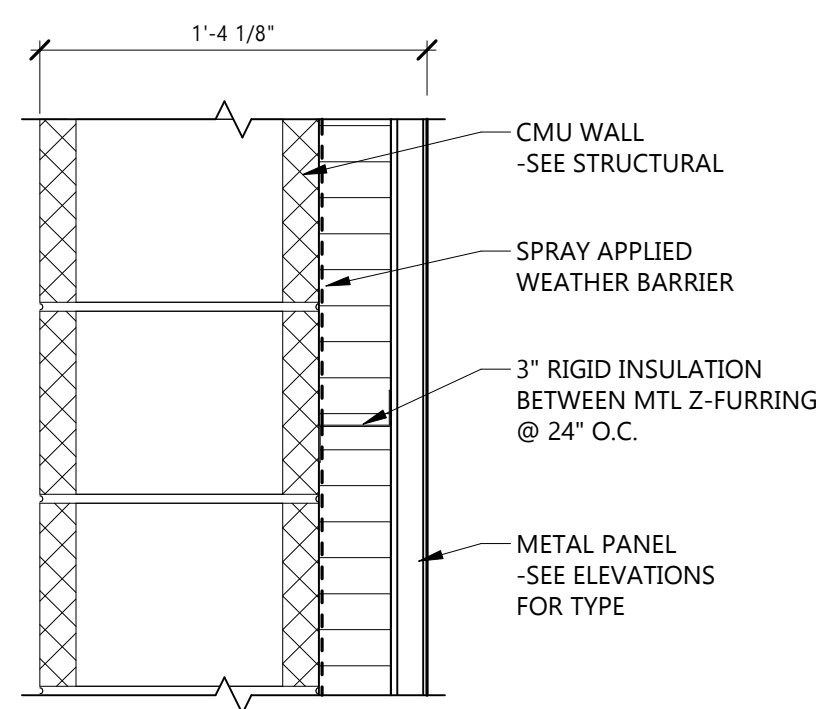
SEE ELEVATIONS AND SECTIONS FOR BRICK COURSING

E4 EXTERIOR MTL PANEL ON MTL STUD BACKUP



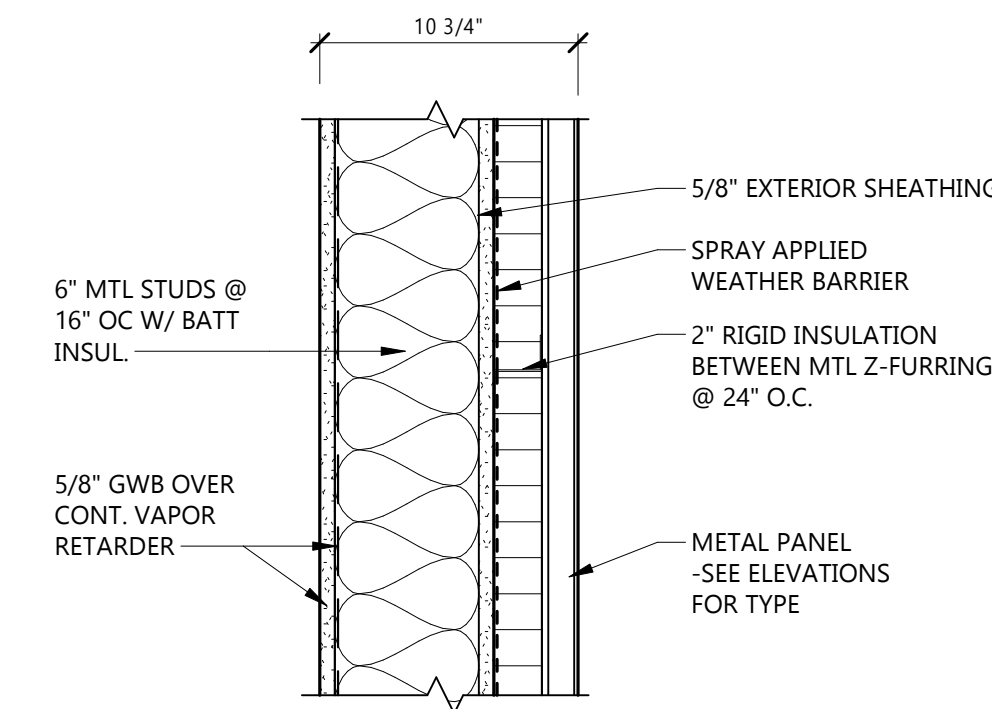
SEE ELEVATIONS AND SECTIONS FOR COURSING

E3 EXTERIOR BRICK ON CMU BACKUP



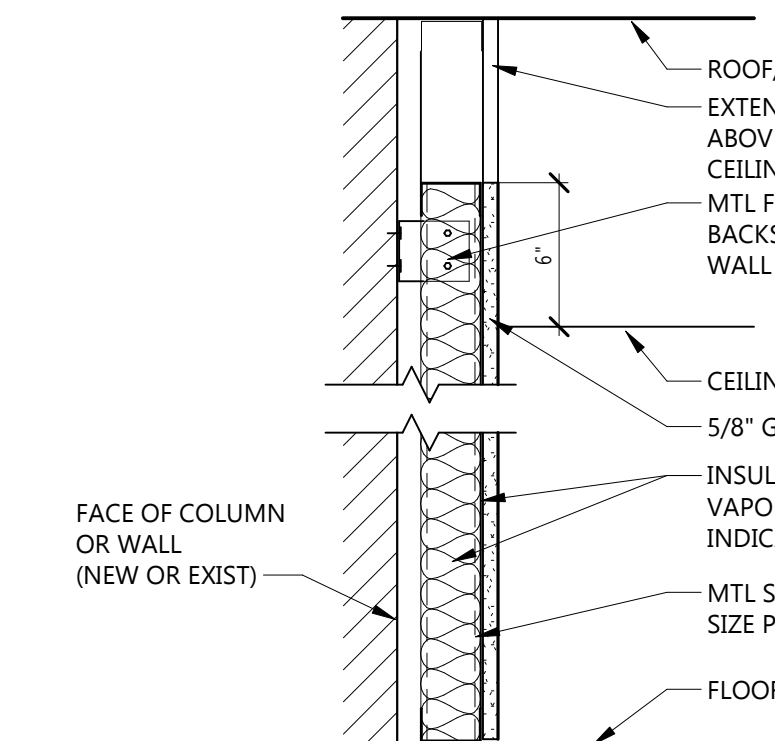
SEE ELEVATIONS FOR PANEL TYPE LOCATIONS

E2 EXTERIOR MTL PANEL ON METAL STUD BACKUP



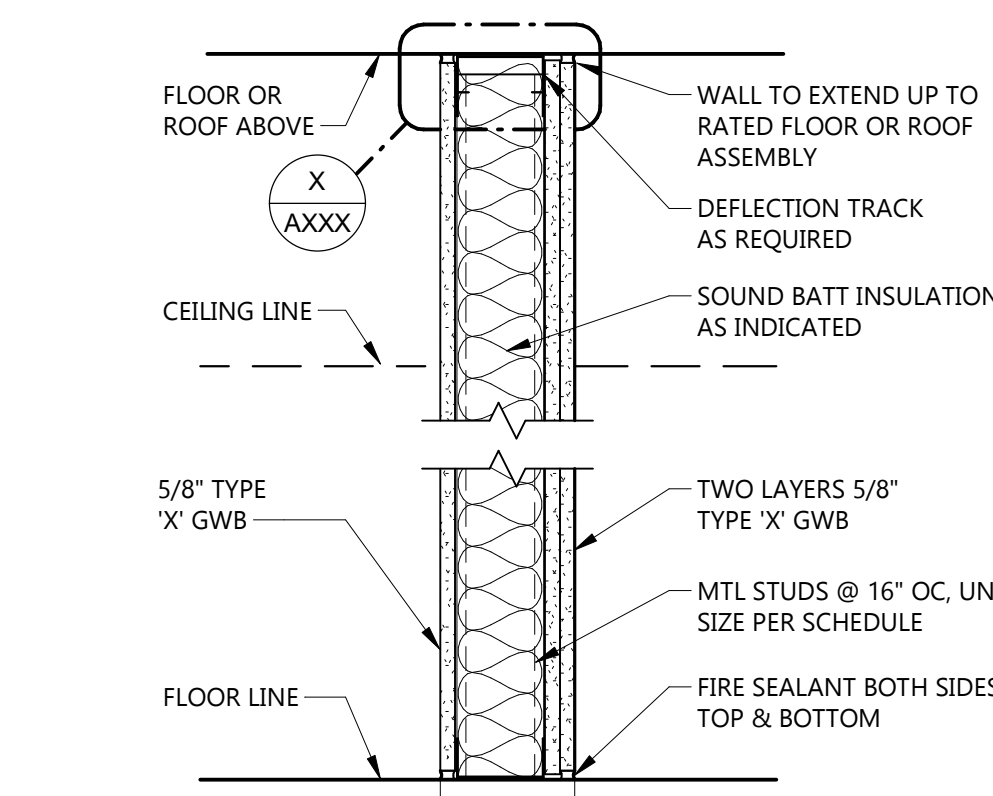
SEE ELEVATIONS FOR PANEL TYPE LOCATIONS

E1 EXTERIOR MTL PANEL ON METAL STUD BACKUP



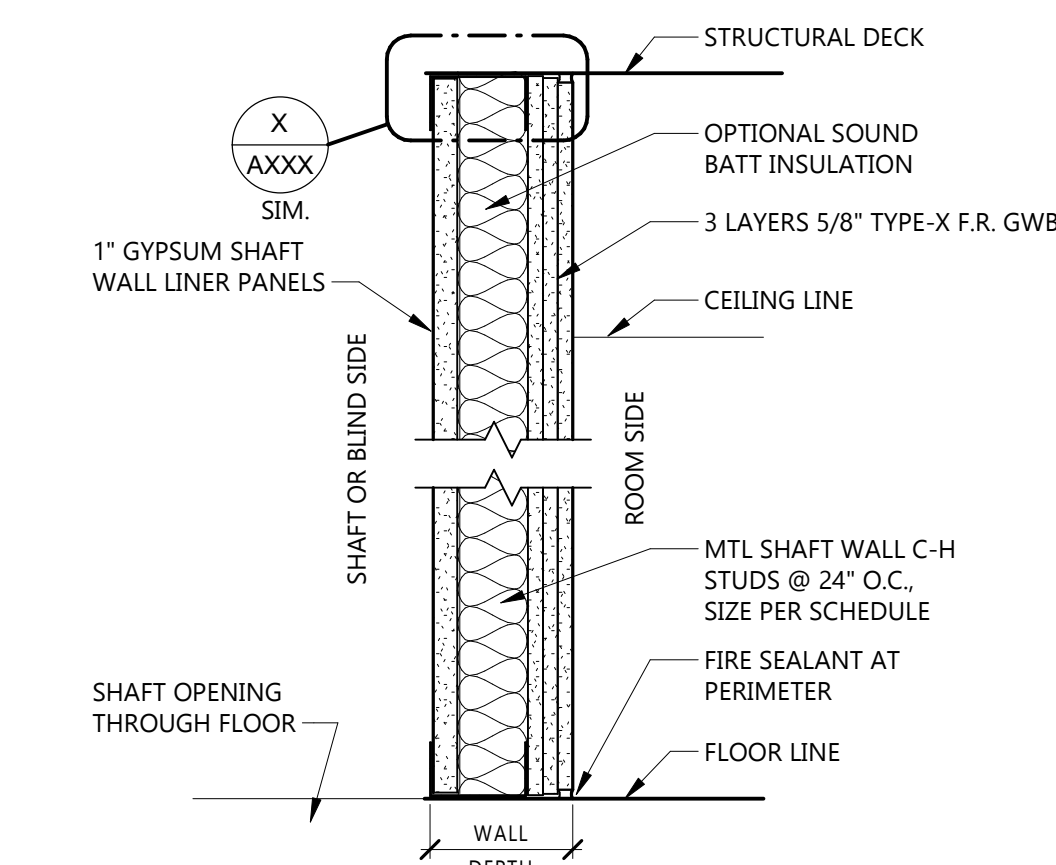
TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
S0	EXIST	2 1/4"	-	-	-	2 1/2"	-	-	-
S4	3 5/8"	4 1/4"	-	-	-	5 1/2"	-	-	-
S7	6"	6 5/8"	-	-	-	5 1/2"	-	-	-

S NON-RATED METAL STUD FURRED WALL



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
W3	1 5/8"	3 1/2"	-	-	-	-	-	-	-
W4	2 1/2"	4 3/8"	-	-	-	-	-	-	-
W5	3 5/8"	5 1/2"	-	-	-	-	-	-	-
W6	4"	5 7/8"	-	-	-	-	-	-	-
W8	6"	7 7/8"	-	-	-	-	-	-	-

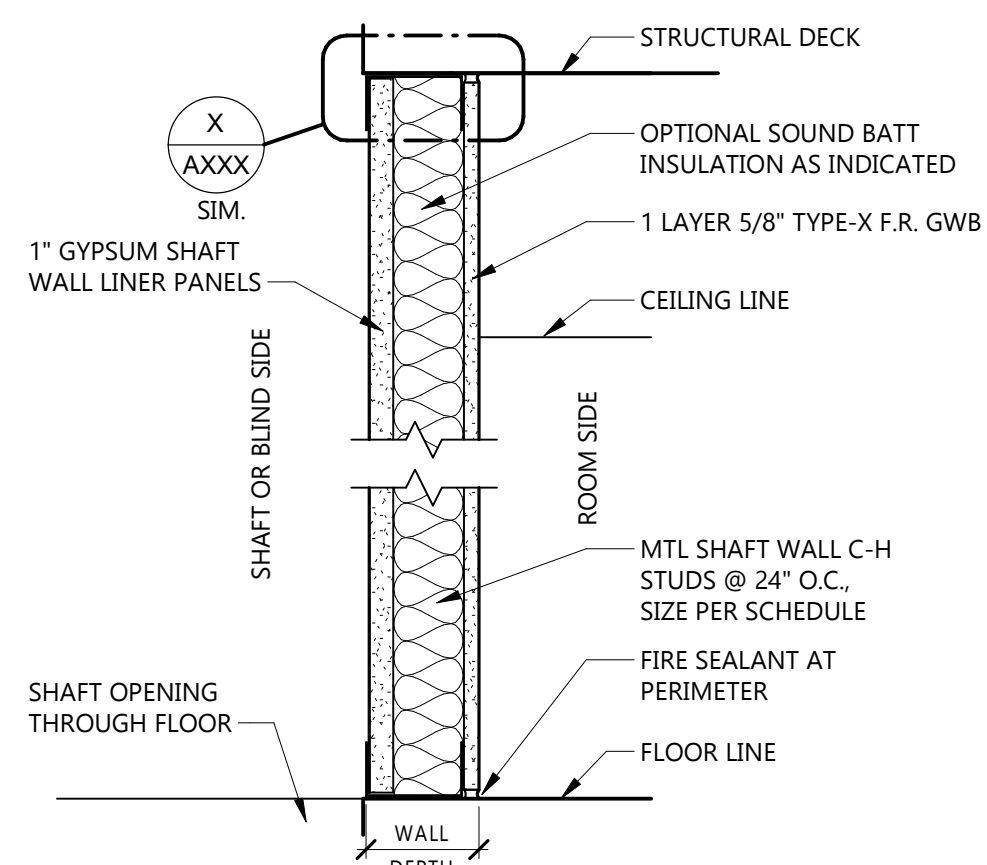
W GWB ON MTL STUDS



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
H4	2 1/2"	4 3/8"	1-HR	U415-F	2 1/2"	-	-	-	-
H6	4"	5 7/8"	3-HR	U415-F	3 1/2"	-	-	-	-
H8	6"	7 7/8"	3-HR	U415-F	5 1/2"	-	-	-	-

SEE LIFE SAFETY PLAN FOR 3-HOUR F.R. ASSEMBLY TYPES AND LOCATIONS

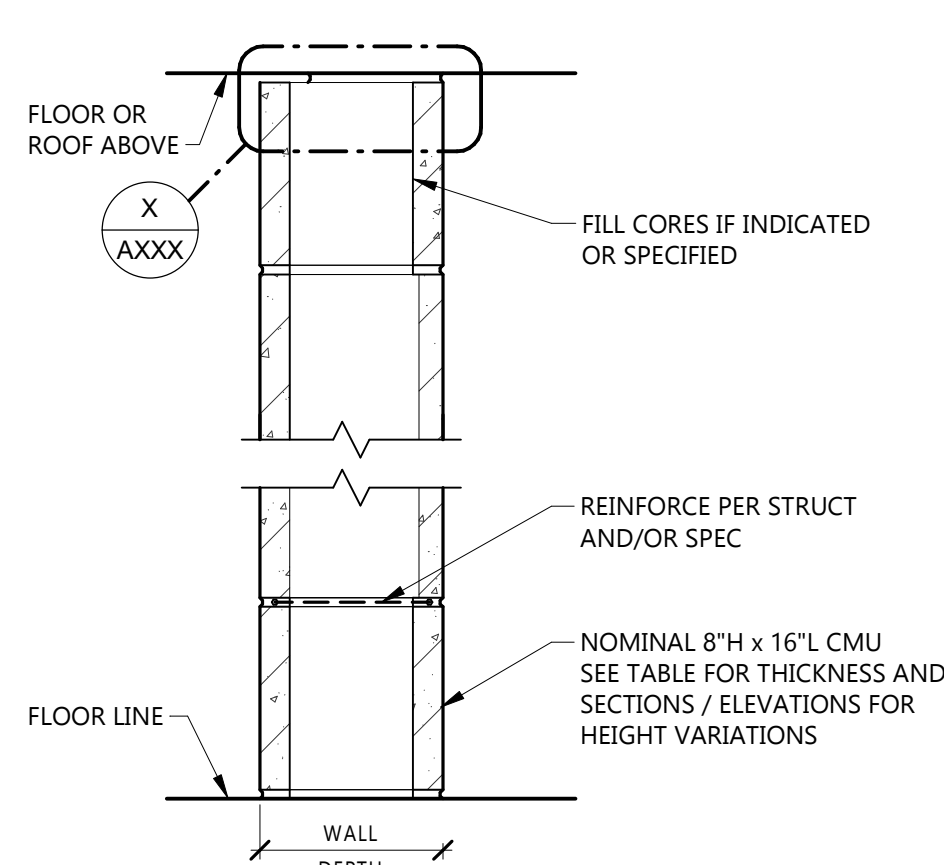
H 3-HOUR RATED GWB SHAFT WALL



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
H5	2 1/2"	3 1/8"	1-HR	U415-A	2 1/2"	-	-	-	-
H5	4"	4 5/8"	1-HR	U415-A	3 1/2"	-	-	-	-
H7	6"	6 5/8"	1-HR	U415-A	5 1/2"	-	-	-	-

SEE LIFE SAFETY PLAN FOR 1-HOUR F.R. ASSEMBLY TYPES AND LOCATIONS

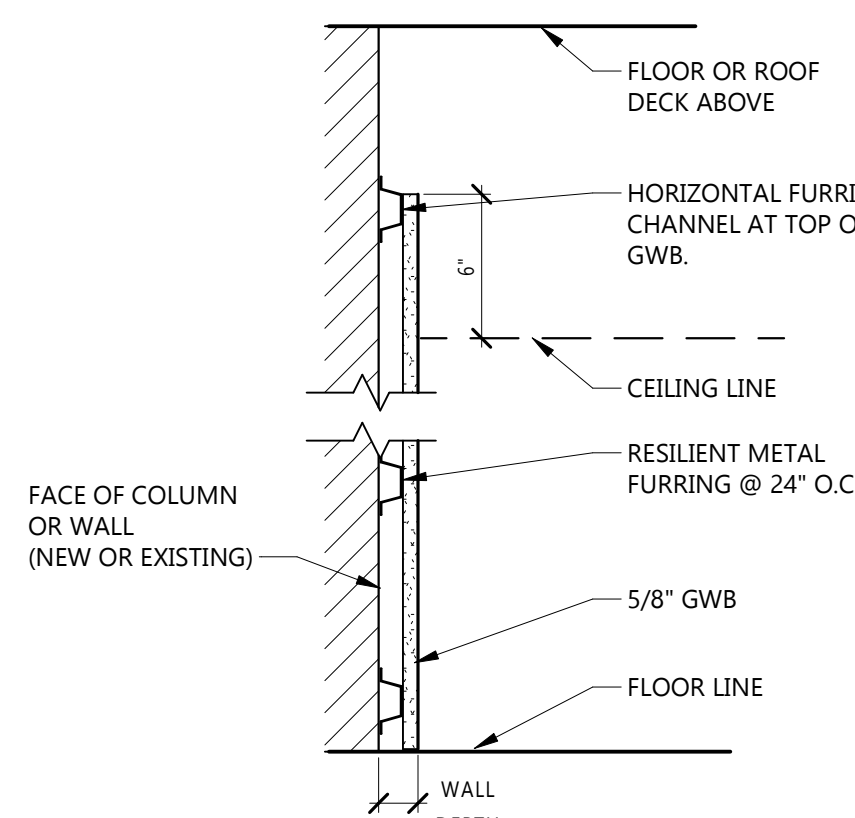
H 1-HOUR RATED GWB SHAFT WALL



TYPE MARK	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
MA	3 5/8"	-	-	-	-	-	-	-
M6	5 5/8"	-	-	-	-	-	-	-
MB	7 5/8"	3-HR	U907	-	-	-	-	-
MA	9 5/8"	-	-	-	-	-	-	-
MC	11 5/8"	-	-	-	-	-	-	-

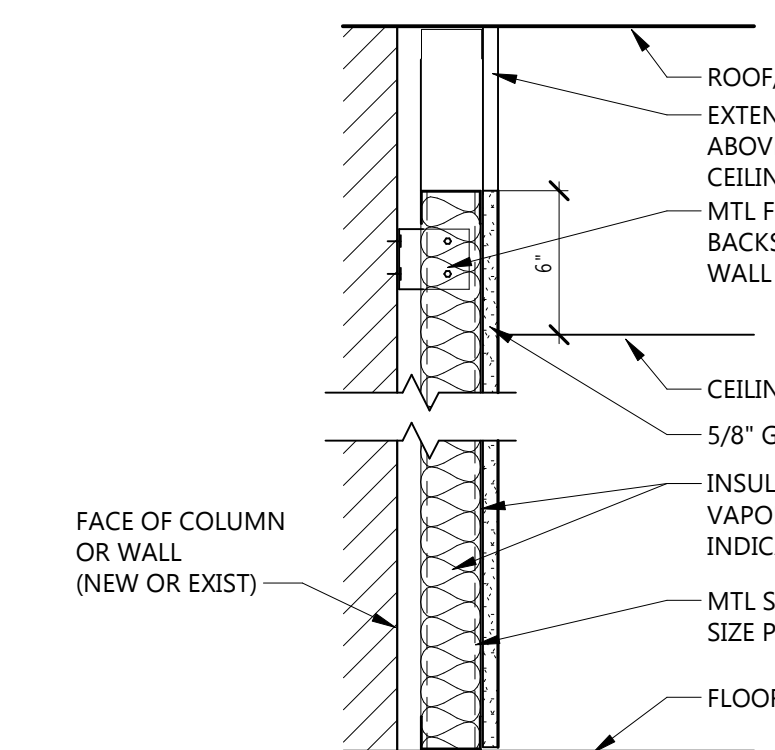
SEE LIFE SAFETY PLAN FOR FIRE RATED CMU ASSEMBLY LOCATIONS

M MASONRY PARTITION (SINGLE WYTHE CMU)



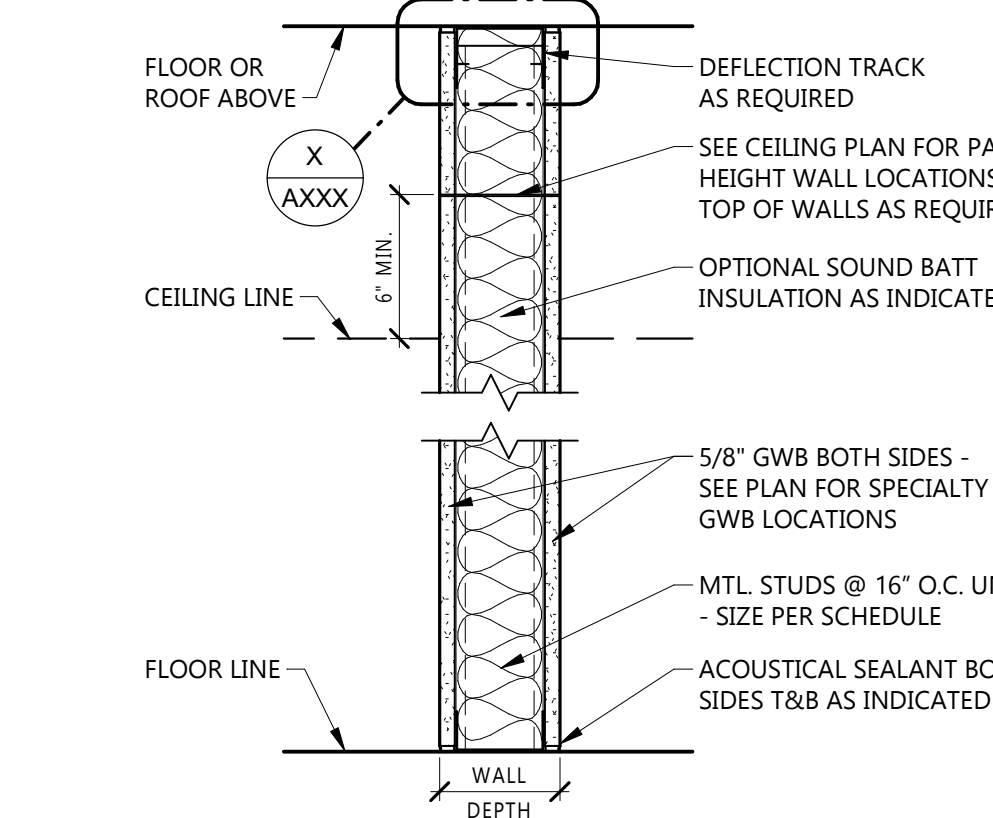
TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
J1	7/8"	1 1/2"	-	-	-	-	-	-	7/8" HAT CHANNELS

J1 NON-RATED GWB ON FURRING CHANNELS



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
J2	1 5/8"	2 1/4"	-	-	-	-	-	-	-
J3	2 1/2"	3 1/8"	-	-	-	2 1/2"	-	-	-
J4	3 5/8"	4 1/4"	-	-	-	3 1/2"	-	-	-
J5	4"	4 5/8"	-	-	-	3 1/2"	-	-	-
J7	6"	6 5/8"	-	-	-	5 1/2"	-	-	-

J NON-RATED METAL STUD FURRED WALL



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	FIRE-RESISTANCE TEST	SAB	STC	SOUND ATTENUATION TEST	NOTES
A3	1 5/8"	2 7/8"	-	-	-	3 1/2"	-	-	-
A5	3 5/8"	4 7/8"	-	-	-	5 1/2"	-	-	-
A6	4"	5 1/4"	-	-	-	5 1/2"	-	-	-
A7	6"	7 1/4"	-	-	-	5 1/2"	-	-	-
A9	8"	9 1/4"	-	-	-	5 1/2"	-	-	-

SEE LIFE SAFETY PLAN FOR N.R. SMOKE-RESISTIVE WALL LOCATIONS

A NON-RATED GWB ON METAL STUDS

GENERAL INTERIOR PARTITION NOTES

- ALL WALL TYPES ARE TYPE 'A5', UNLESS NOTED OTHERWISE.
- SEE FLOOR PLANS FOR EXTENT OF EACH WALL.
- ALL WALLS TO BE FULL HEIGHT UNLESS NOTED OTHERWISE. SEE RCP FOR DETAILS.
- ON ALL RESTROOM WALLS AND OTHER AREAS SCHEDULED TO RECEIVE FRP OR TILE FINISH, PROVIDE A MINIMUM OF MOISTURE-RESISTANT GYPSUM BOARD.
- ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
- WHERE GYPSUM BOARD EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE, STOP GYPSUM BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
- REFERENCE FLOOR FINISH PLANS AND WALL FINISH PLANS FOR ADDITIONAL FINISHES NOT INDICATED ON PARTITION TYPES.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
- PROVIDE FIRE-TREATED WOOD OR STEEL BACKING FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS INCLUDING OWNER PROVIDED ITEMS.
- REFER TO ENLARGED PLANS FOR WALL TAG LOCATIONS.
- STUD SPACING IS 16" O.C., UNLESS NOTED OTHERWISE.
- PROVIDE SLIP TYPE HEAD JOINTS WHERE METAL FRAMING EXTENDS TO OVERHEAD STRUCTURAL SUPPORTS.
- SEE REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- FIRE WALL LOCATIONS SHALL NOT BE PENETRATED BY OTHER PARTITIONS. G.C. TO COORDINATE/CONFIRM ALL LOCATIONS OF PARTITIONS PRIOR TO INSTALLATION. SEE G003 AND G004 FOR LOCATIONS.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRE CAULKED PER SPEC SECTION 07 8413.
- ALL PARTITIONS WITH ACOUSTICAL RATINGS SHALL HAVE ACOUSTICAL SEALANT WHERE MEETING FLOOR/DECK ABOVE.
- PLACE CONTROL JOINTS IN GWB WALLS AT 30 FOOT INTERVALS MAXIMUM (OR TO THE CLOSEST OPENING).
- PROVIDE EXPANSION JOINTS EVERY 20 FEET IN CMU WALLS.
- AT CMU WALLS PROVIDE CONTROL JOINTS AT ALL OPENINGS. OFFSET JOINTS AT OPENING HEADERS TO FOLLOW LINTEL PROFILE, IF APPLICABLE.
- COORDINATE WALLS W/ INTERIOR ELEVATIONS AND PROVIDE CONTINUOUS BLOCKING AS REQUIRED FOR MILLWORK AND EQUIPMENT INDICATED.
- COORDINATE CHASE DIMENSIONS W/ MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS.

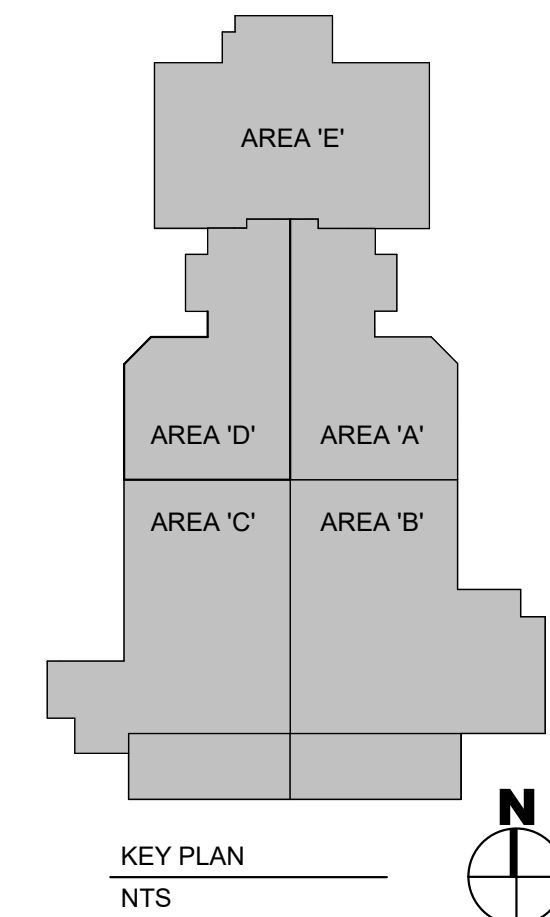
FIRE-RATED PARTITION NOTES:

- ALL PARTITIONS NOTED TO BE FIRE-RESISTANCE RATED SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FIRE RESISTANCE TESTS.
- FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED BEFORE NON-RATED PARTITIONS.
- ALL FIRE-RATED PARTITIONS TO EXTEND FROM TOP OF UNFINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. SEAL TOP, BOTTOM AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.
- ALL PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE SEALED WITH MATERIALS, SEALANTS AND/OR ASSEMBLIES WHICH MAINTAIN THE FIRE-RESISTANCE RATING OF THE PARTITION.

- GENERAL NOTES**
1. REFER TO CODE COMPLIANCE DATA SHEETS AND PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS.
 2. ALL EXTERIOR DIMENSIONS ARE TO GRIDLINES, FACE OF MASONRY/CONCRETE, EXTERIOR FACE OF STUD, AND FACE OF EX. WALL ASSEMBLY UNLESS NOTED OTHERWISE.
 3. ALL INTERIOR DIMENSIONS ARE TO GRIDLINES, CENTER OF STUD, FACE OF MASONRY, FACE OF MULLION, OR FROM FACE OF EX. WALL ASSEMBLY UNLESS NOTED OTHERWISE.
 4. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
 5. PARTITION AND WALL TYPES ARE SCHEDULED ON SHEET A002. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS.
 6. WHERE PIPES, CONDUITS, DUCTS OR OTHER ITEMS ARE REMOVED IN EXISTING WALLS AND FLOORS WHICH LEAVE A HOLE, PATCH AND REPAIR AS NEEDED TO MATCH EXISTING ADJACENT CONSTRUCTION AND FINISH.
 7. ALL INTERIOR WALL TYPES TO BE WALL TYPE "A" UNLESS NOTED OTHERWISE.
 8. WHERE GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE-HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND ADDITIONAL LAYERS OF GYPSUM BOARD SHALL BE PROVIDED AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.
 9. WHERE PIPES, CONDUITS, DUCTS OR OTHER ITEMS ARE REMOVED IN EXISTING WALLS AND FLOORS WHICH LEAVE A HOLE, PATCH AND REPAIR AS NEEDED TO MATCH EXISTING ADJACENT CONSTRUCTION AND FINISH.
 10. ALL INTERIOR DOOR FRAMES TO BE LOCATED 4" AWAY FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
 11. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EACH DOOR AND A MINIMUM 1'-6" CLEAR FLOOR SPACE CLEAR AT THE PULL SIDE OF EACH DOOR, UNLESS SPECIFICALLY DIMENSIONED NOTED, OR SHOWN OTHERWISE.
 12. PROVIDE FR WOOD BLOCKING AT ALL WALL MOUNTED CASEWORK, TV MONITORS, PROJECTION SCREENS, MARKER BOARDS, ETC.
 13. USE ROUNDED BLOCK AT ALL OUTSIDE CORNERS OF EXPOSED CMU WALLS.
 14. GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL ADJACENT FINISHES AS REQUIRED IN DEMOLITION AREAS.
 15. PROVIDE & INSTALL GYPSUM BOARD CONTROL JOINTS, DEFLECTION TRACKS, BRACING AND ALL OTHER MISCELLANEOUS ACCESSORIES AS RECOMMENDED BY THE GYPSUM ASSOCIATION.
 16. SEE STRUCT. FOR REINFORCEMENT OF ALL NEW OPENINGS IN EX. WALL ASSEMBLIES.
 17. MOUNT LAVATORIES AND SINKS A MINIMUM OF 1'-4" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
 18. REFER TO INTERIOR FINISH LEGEND, INTERIOR ELEVATIONS, AND FINISH FLOOR PLANS FOR FINISH MATERIAL INFORMATION.

KEYNOTE LEGEND:

○ < < < INDICATES KEYNOTE ON PLAN



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PROJECT DESCRIPTION
FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY **BROOKINGS**
STATE **SOUTH DAKOTA**

ISSUE DATES

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BP01 BID PACKAGE 01	03/01/2022
MARK DESCRIPTION	DATE

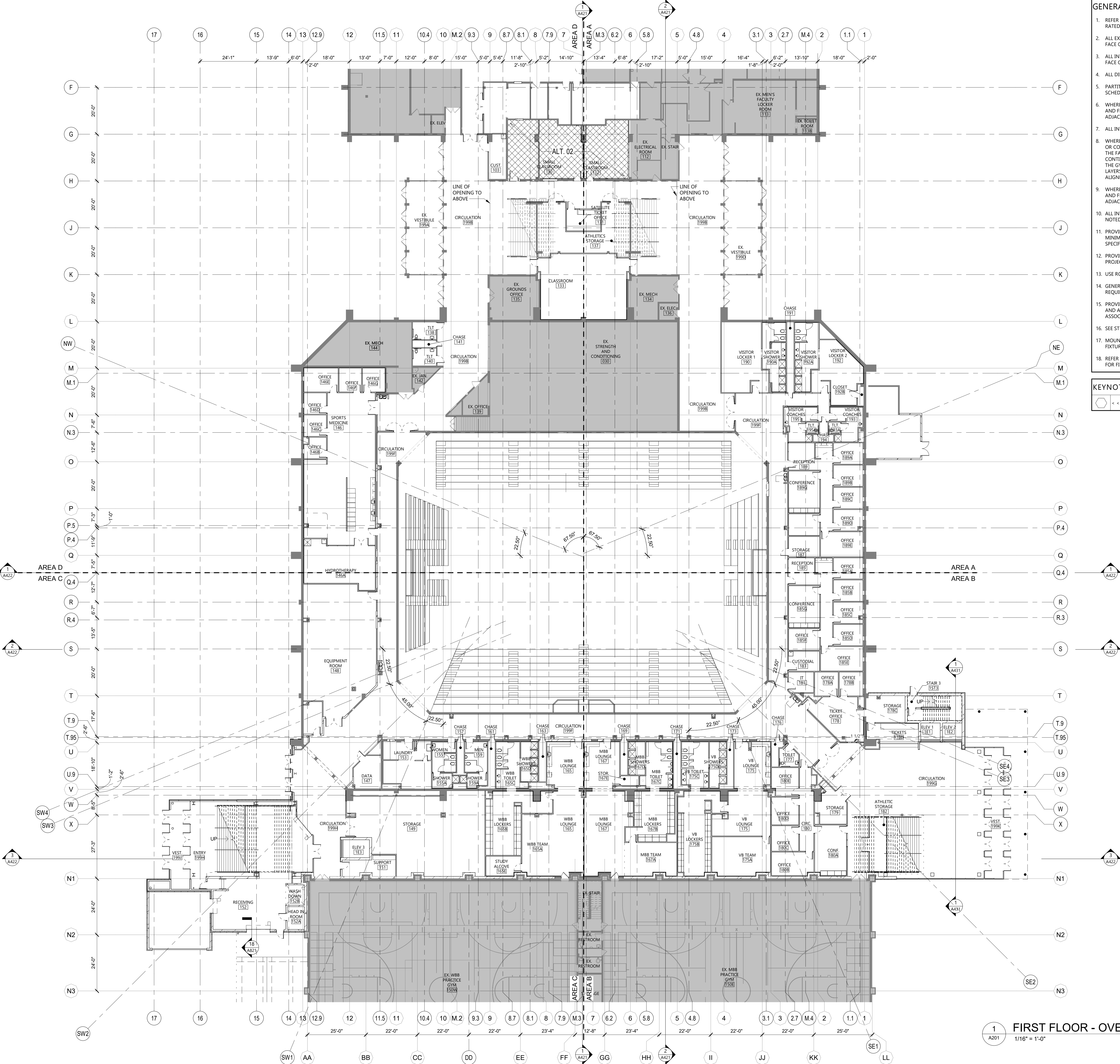
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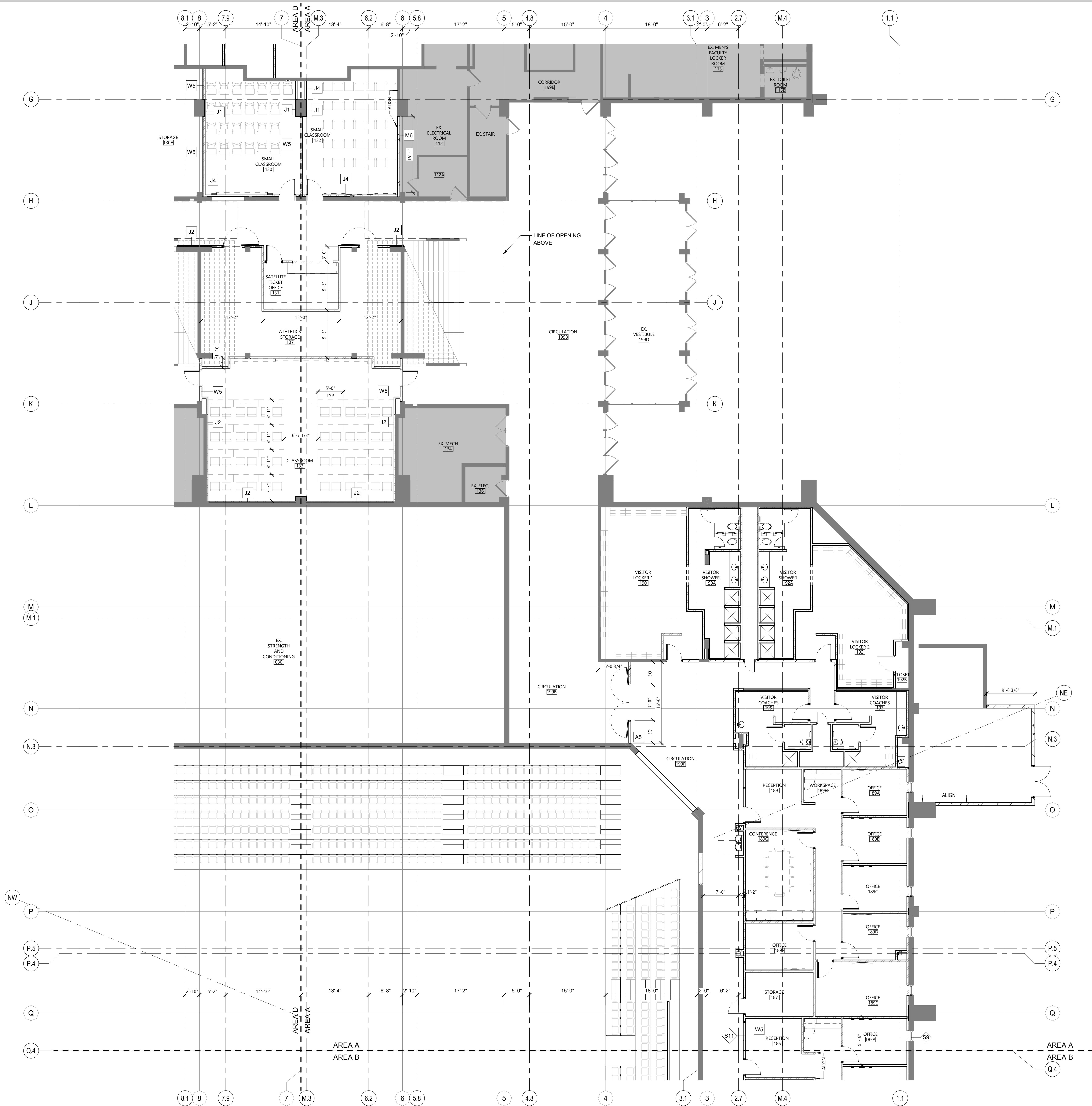
DRAWING TITLE
FIRST FLOOR - OVERALL PLAN

A201



FIRST FLOOR - OVERALL

1/16" = 1'-0"



GENERAL AREA PLANS NOTES

1. MOUNT WATER CLOSETS A MINIMUM OF 1'-6" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE SIDE WALL.

2. SINKS AND LAVATORIES SHALL BE LOCATED A MINIMUM 1'-4" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.

3. CENTER VANITY MIRROR OVER LAVATORY.

4. FLUSH CONTROLS SHALL BE MOUNTED ON THE OPEN SIDE OF TOILETS, NOT TO EXCEED 44 INCHES ABOVE FINISH FLOOR. PROVIDE ACCESSIBLE TOILETS WITH MODIFIED FLUSH KITS TO MEET GRIP CLEARANCE CRITERIA FOR GRAB BARS.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN

EAPC

Architecture

Interior Design

Engineering

Industrial

TELE 605.444.1600 FAX 605.444.1601

101 N. Phillips Ave., Ste. 300, Sioux Falls, SD 57104

www.eapc.net

CONSULTANTS

PERKINS+WILL

AREA 'E'

AREA 'D'

AREA 'C'

AREA 'A'

AREA 'B'

KEY PLAN

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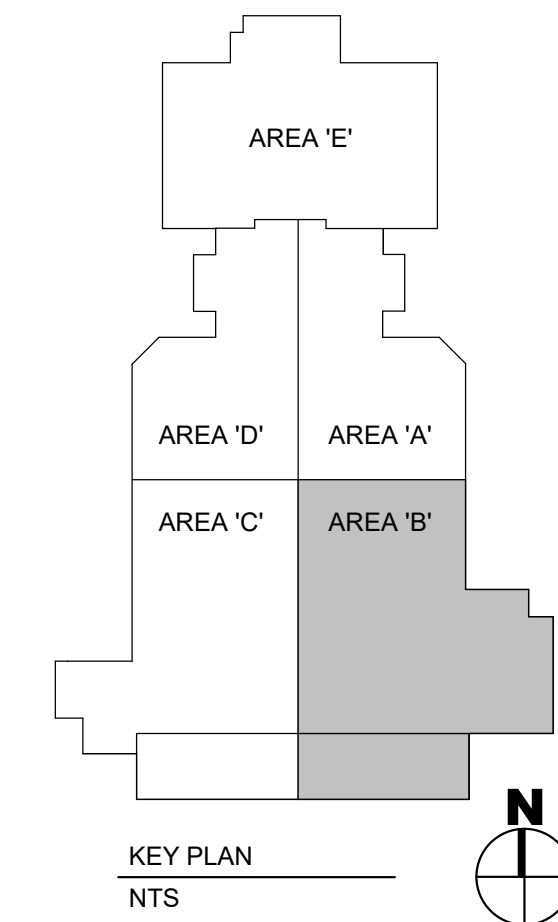
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DRAWING TITLE

FIRST FLOOR - AREA A

A201A

1 FIRST FLOOR - AREA A
A201A 1/8" = 1'-0"



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FIRST FLOOR - AREA B

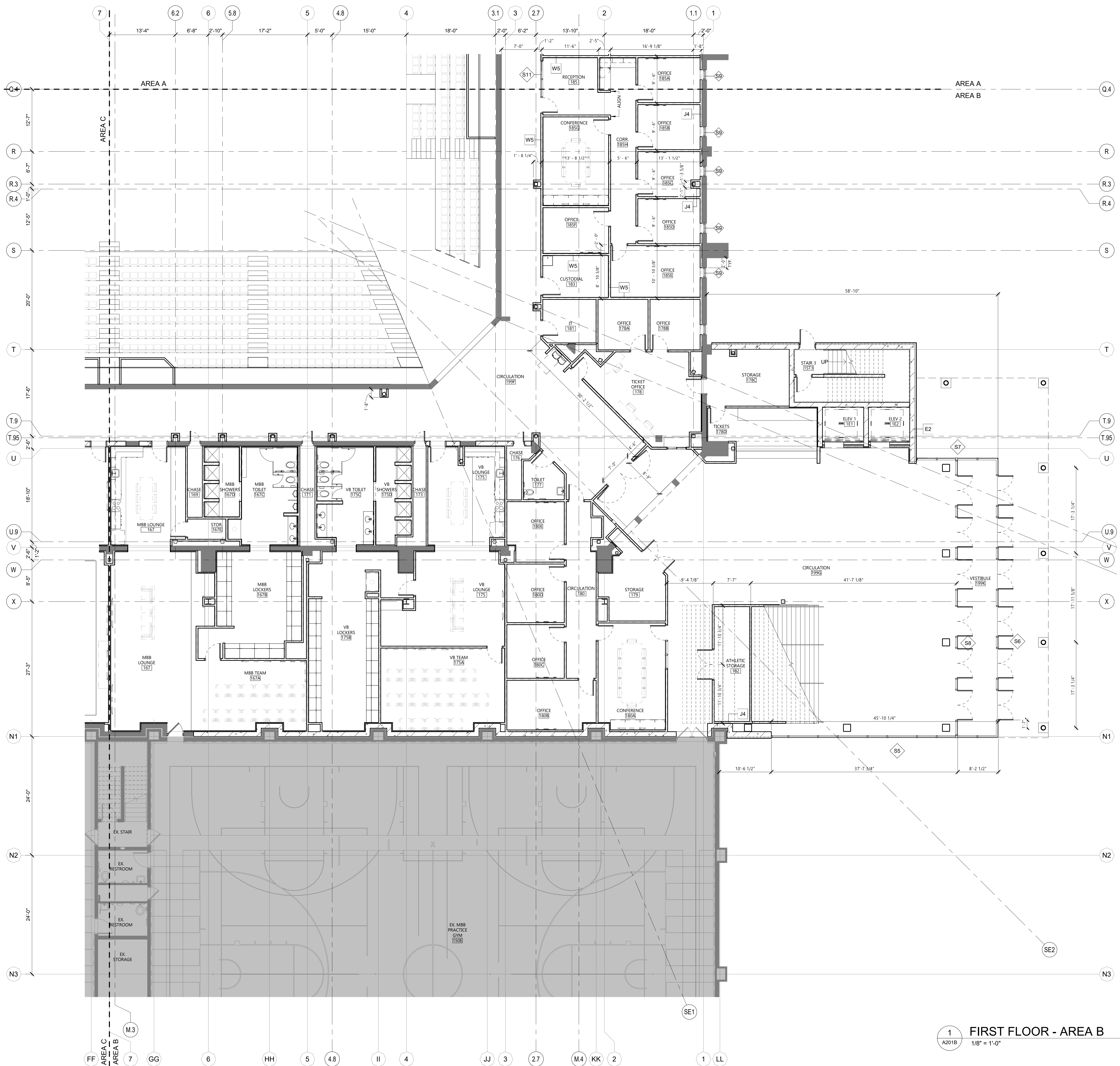
A201B

GENERAL AREA PLANS NOTES

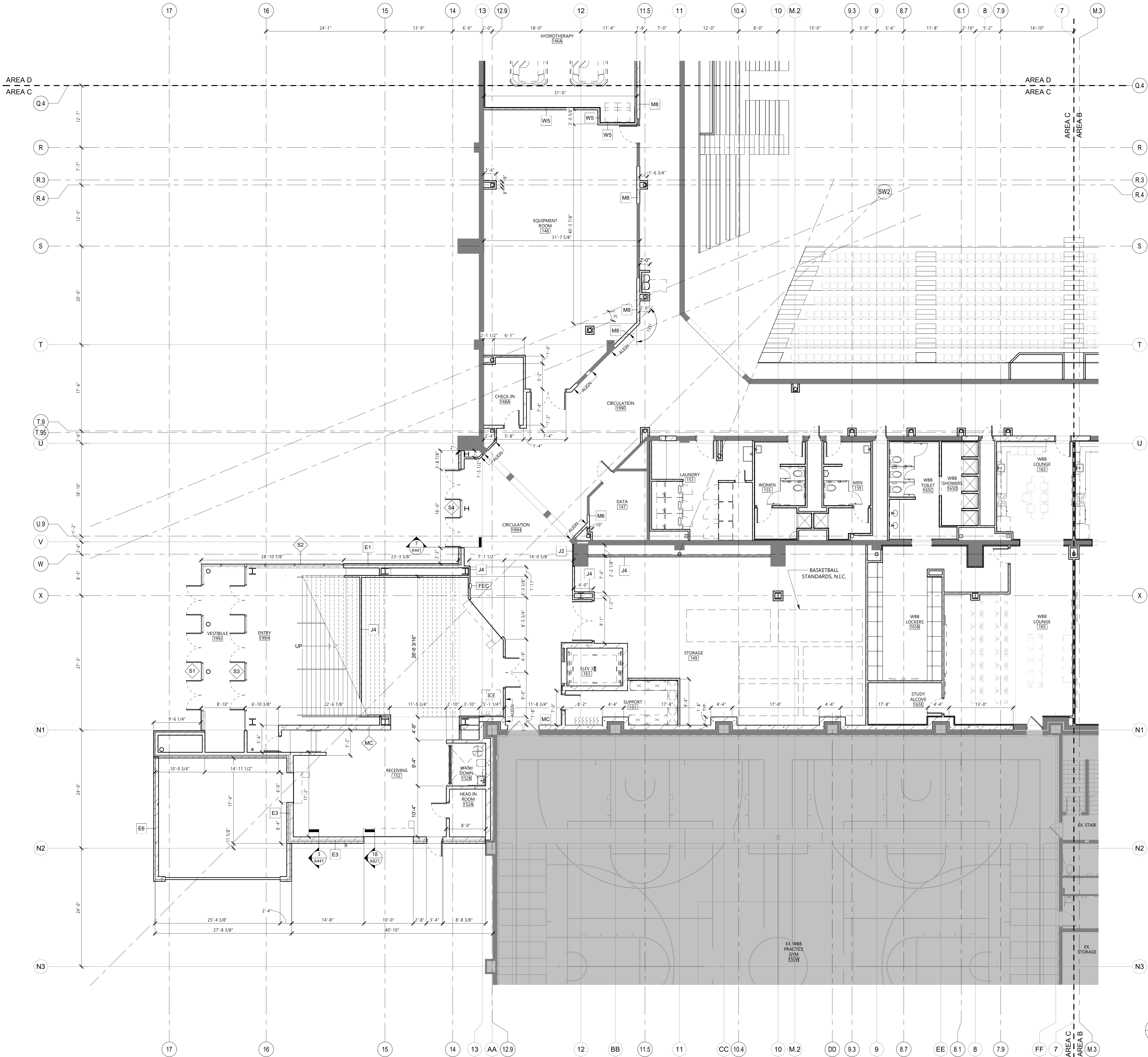
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2. SINKS AND LAVATORIES SHALL BE LOCATED A MINIMUM 1'-4" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
3. CENTER VANITY MIRROR OVER LAVATORY.
4. FLUSH CONTROLS SHALL BE MOUNTED ON THE OPEN SIDE OF TOILETS, NOT TO EXCEED 44 INCHES ABOVE FINISH FLOOR. PROVIDE ACCESSIBLE TOILETS WITH MODIFIED FLUSH KITS TO MEET GRIP CLEARANCE CRITERIA FOR GRAB BARS.

KEYNOTE LEGEND:

< < < INDICATES KEYNOTE ON PLAN



1 FIRST FLOOR - AREA B
A201B 1/8" = 1'-0"



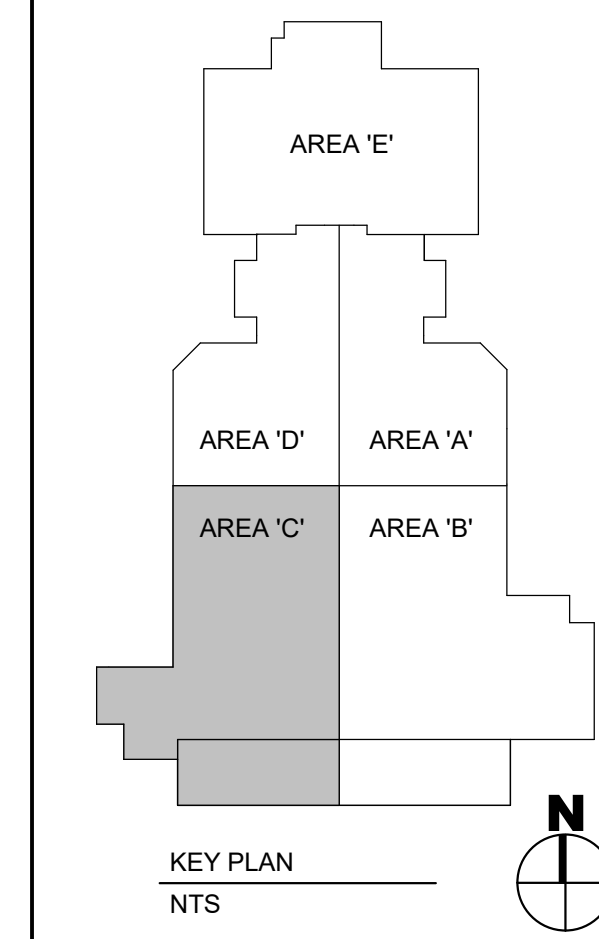
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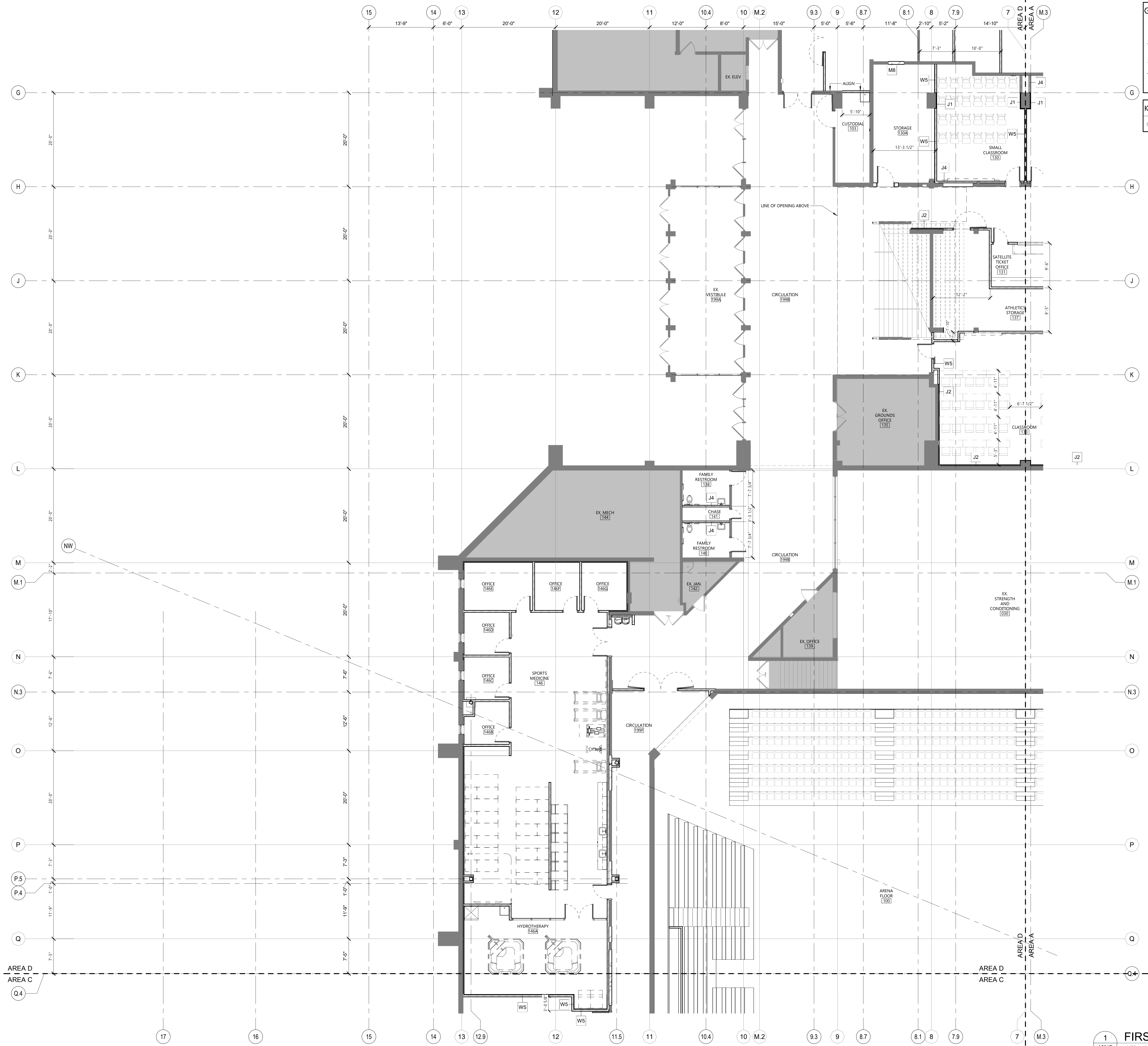
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DRAWING TITLE
FIRST FLOOR - AREA C

A201C

1 FIRST FLOOR - AREA C
A201C 1/8" = 1'-0"

Rev Date: 3/7/2023 3:14:01 PM



GENERAL AREA PLANS NOTES

1. MOUNT WATER CLOSETS A MINIMUM OF 1'-6" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE SIDE WALL.
2. SINKS AND LAVATORIES SHALL BE LOCATED A MINIMUM 1'-4" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
3. CENTER VANITY MIRROR OVER LAVATORY.
4. FLUSH CONTROLS SHALL BE MOUNTED ON THE OPEN SIDE OF TOILETS, NOT TO EXCEED 44 INCHES ABOVE FINISH FLOOR. PROVIDE ACCESSIBLE TOILETS WITH MODIFIED FLUSH KITS TO MEET GRIP CLEARANCE CRITERIA FOR GRAB BARS.

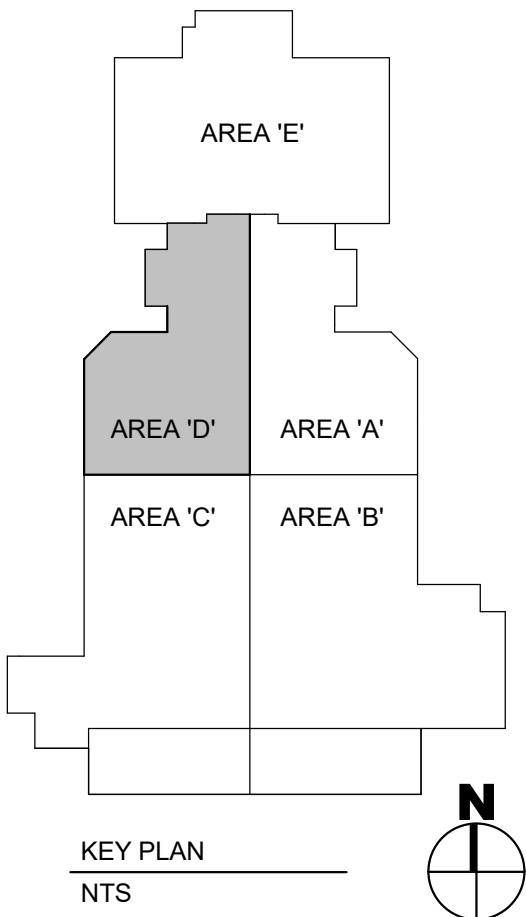
KEYNOTE LEGEND:

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SOUTH DAKOTA STATE UNIVERSITY

PROJECT DESCRIPTION
FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY **BROOKINGS**
STATE **SOUTH DAKOTA**

ISSUE DATES

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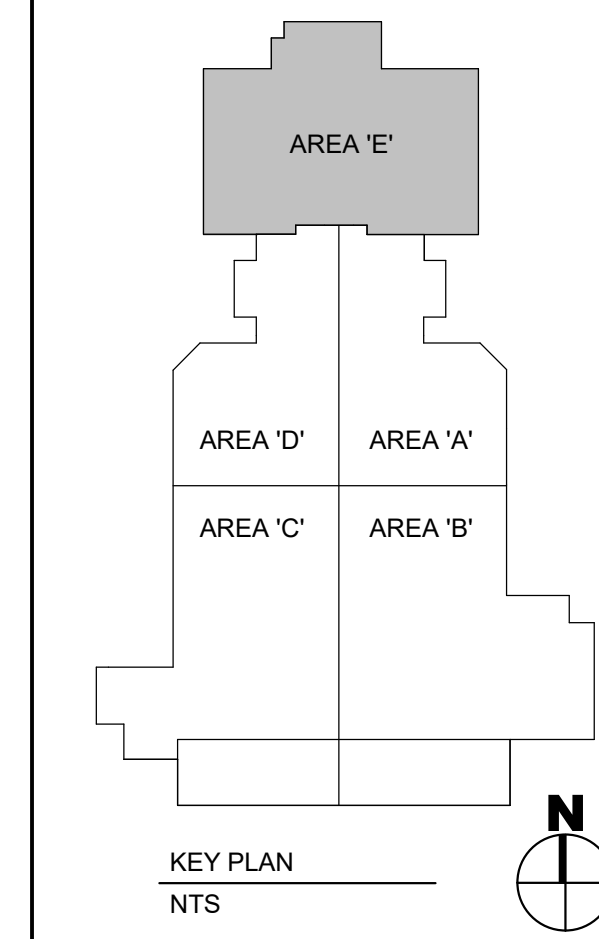
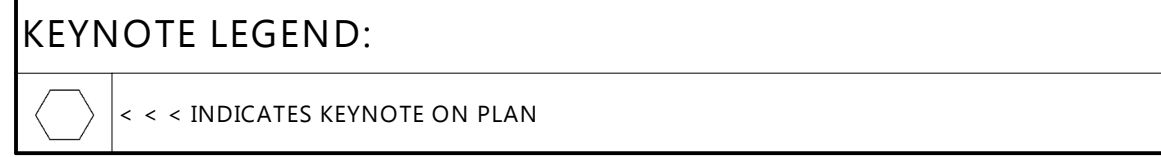
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DRAWING TITLE
FIRST FLOOR - AREA D

A201D

1 FIRST FLOOR - AREA D
A201D 1/8" = 1'-0"



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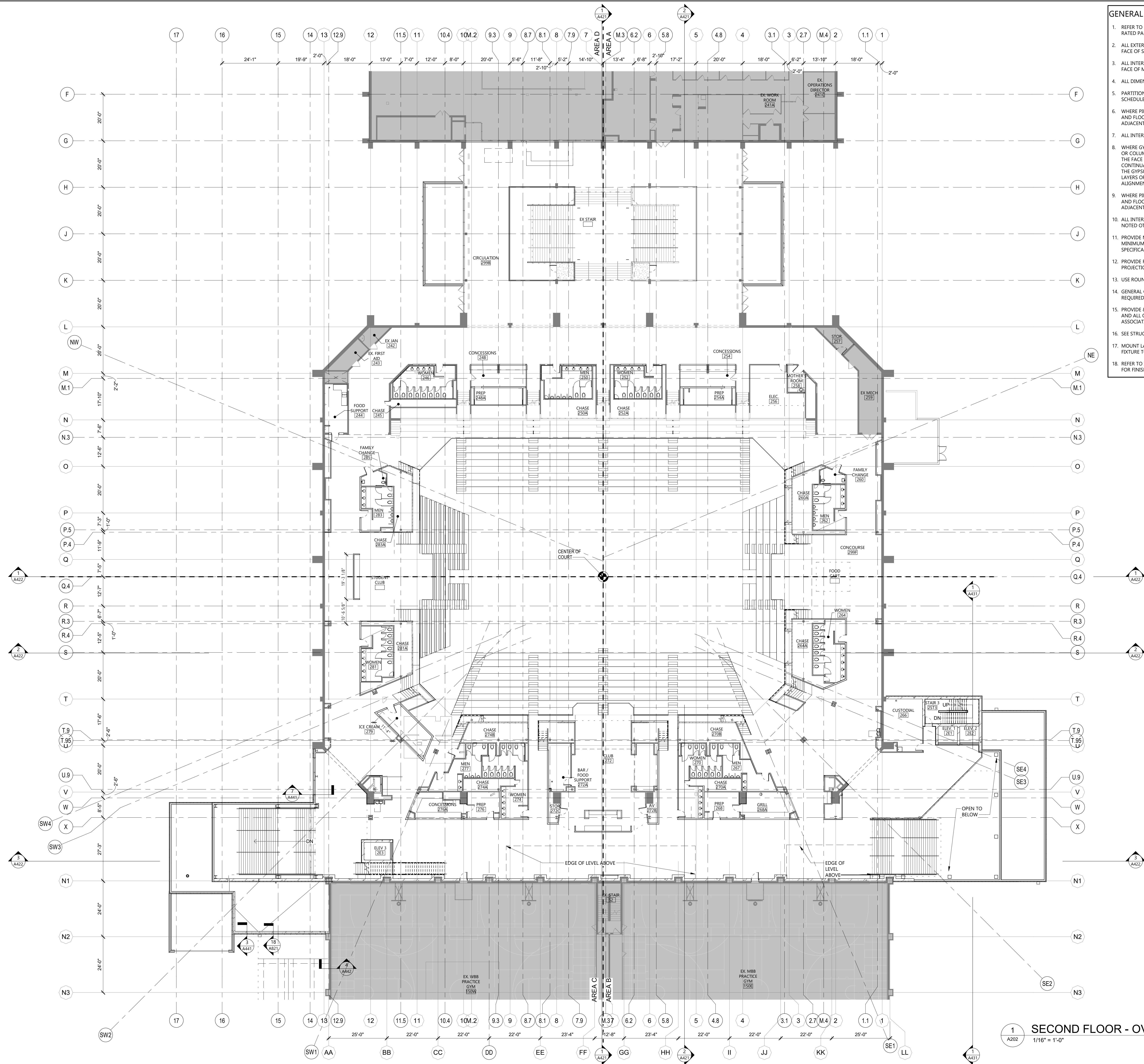
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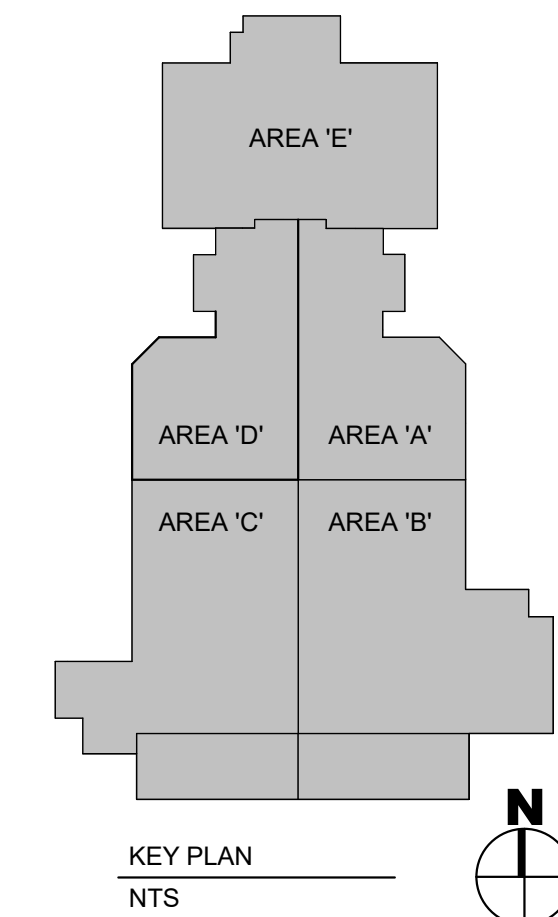
DRAWING TITLE
FIRST FLOOR - AREA E

A201E



GENERAL NOTES

1. REFER TO CODE COMPLIANCE DATA SHEETS AND PLANS FOR GRAPHIC EXTENT OF FIRE RATED PARTITIONS.
2. ALL EXTERIOR DIMENSIONS ARE TO GRIDLINES, FACE OF MASONRY/CONCRETE, EXTERIOR FACE OF STUD, AND FACE OF EX. WALL ASSEMBLY UNLESS NOTED OTHERWISE.
3. ALL INTERIOR DIMENSIONS ARE TO GRIDLINES, CENTER OF STUD, FACE OF MASONRY, FACE OF MULLION, OR FROM FACE OF EX. WALL ASSEMBLY UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO BE FIELD VERIFIED.
5. PARTITION AND WALL TYPES ARE SCHEDULED ON SHEET A002. REFER TO PARTITION TYPE SCHEDULE FOR LOCATION OF SOUND ATTENUATION BLANKETS.
6. WHERE PIPES, CONDUITS, DUCTS OR OTHER ITEMS ARE REMOVED IN EXISTING WALLS AND FLOORS WHICH LEAVE A HOLE, PATCH AND REPAIR AS NEEDED TO MATCH EXISTING ADJACENT CONSTRUCTION AND FINISH.
7. ALL INTERIOR WALL TYPES TO BE WALL TYPE "A" UNLESS NOTED OTHERWISE.
8. WHERE GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE. WHERE A ONE-HOUR PARTITION IS SHOWN AS A CONTINUATION OF A TWO-HOUR PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE GYPSUM BOARD SHALL BE ALIGNED. STUDS SHALL BE OFFSET AND ADDITIONAL LAYERS OF GYPSUM BOARD SHALL BE PROVIDED AS REQUIRED TO PROVIDE FACE ALIGNMENT OF GYPSUM BOARD.
9. WHERE PIPES, CONDUITS, DUCTS OR OTHER ITEMS ARE REMOVED IN EXISTING WALLS AND FLOORS WHICH LEAVE A HOLE, PATCH AND REPAIR AS NEEDED TO MATCH EXISTING ADJACENT CONSTRUCTION AND FINISH.
10. ALL INTERIOR DOOR FRAMES TO BE LOCATED 4" AWAY FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
11. PROVIDE MINIMUM 1'-0" CLEAR FLOOR SPACE AT THE PUSH SIDE OF EACH DOOR AND A MINIMUM 1'-6" CLEAR FLOOR SPACE CLEAR AT THE PULL SIDE OF EACH DOOR, UNLESS SPECIFICALLY DIMENSIONED NOTED, OR SHOWN OTHERWISE.
12. PROVIDE FR WOOD BLOCKING AT ALL WALL MOUNTED CASEWORK, TV MONITORS, PROJECTION SCREENS, MARKER BOARDS, ETC.
13. USE ROUNDED BLOCK AT ALL OUTSIDE CORNERS OF EXPOSED CMU WALLS.
14. GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING ALL ADJACENT FINISHES AS REQUIRED IN DEMOLITION AREAS.
15. PROVIDE & INSTALL GYPSUM BOARD CONTROL JOINTS, DEFLECTION TRACKS, BRACING AND ALL OTHER MISCELLANEOUS ACCESSORIES AS RECOMMENDED BY THE GYPSUM ASSOCIATION.
16. SEE STRUCT. FOR REINFORCEMENT OF ALL NEW OPENINGS IN EX. WALL ASSEMBLIES.
17. MOUNT LAVATORIES AND SINKS A MINIMUM OF 1'-4" FROM THE CENTERLINE OF THE FIXTURE TO THE FINISHED FACE OF THE ADJACENT PARTITION.
18. REFER TO INTERIOR FINISH LEGEND, INTERIOR ELEVATIONS, AND FINISH FLOOR PLANS FOR FINISH MATERIAL INFORMATION.



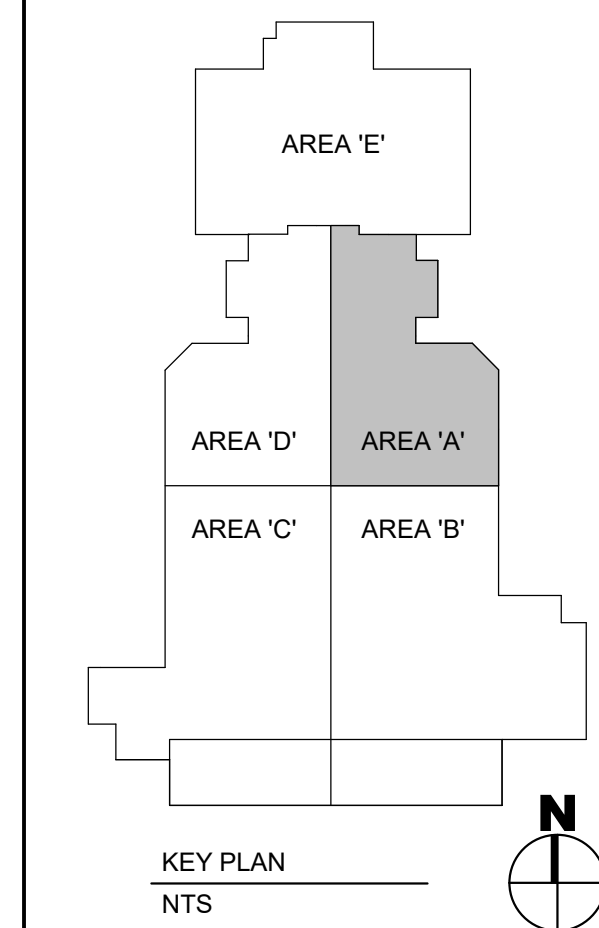
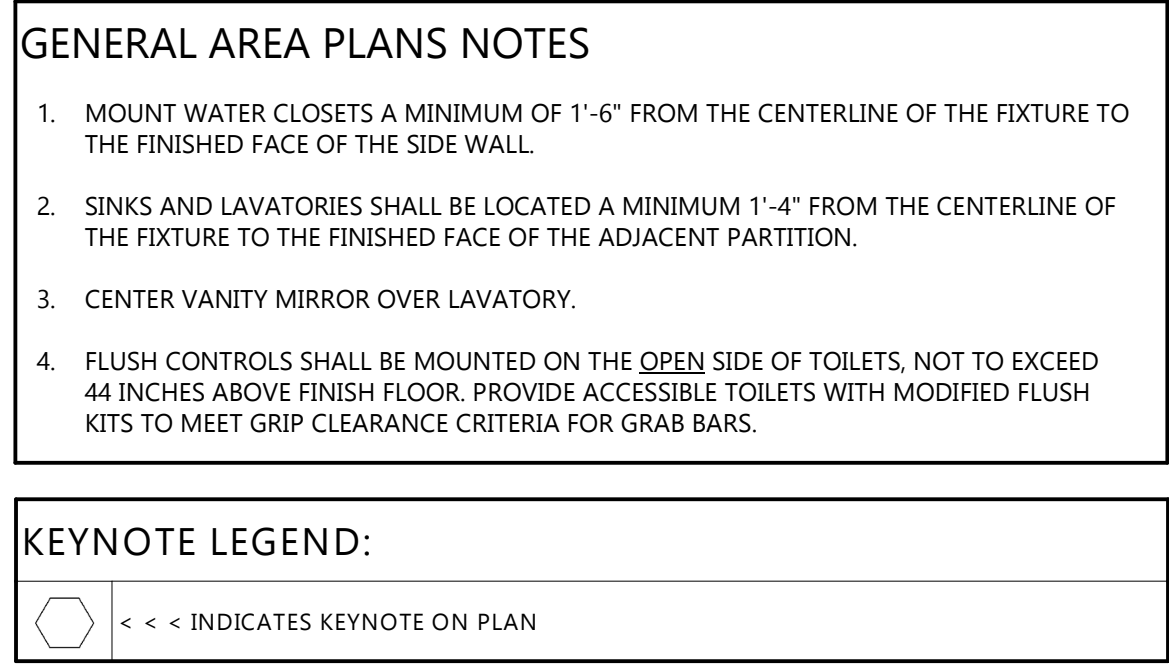
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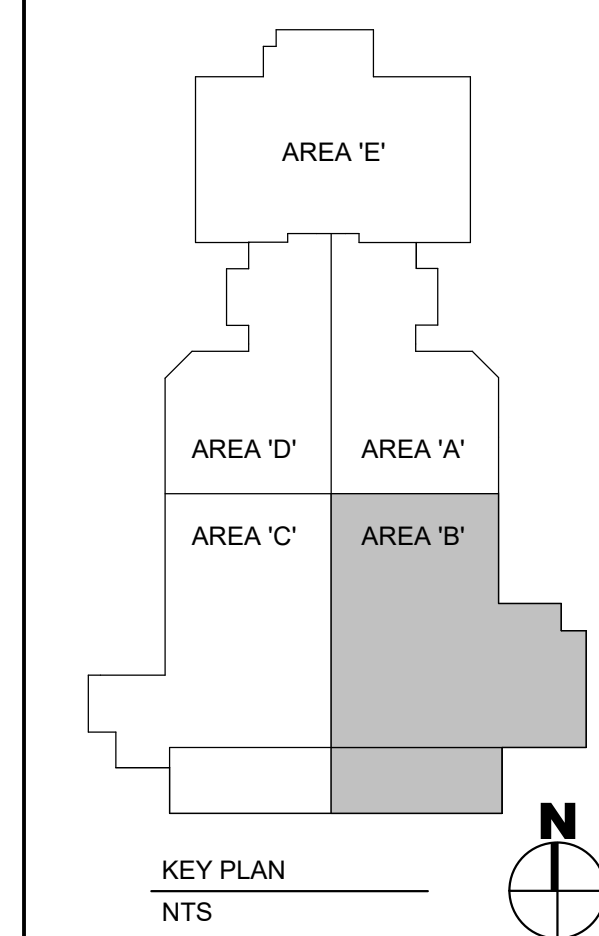
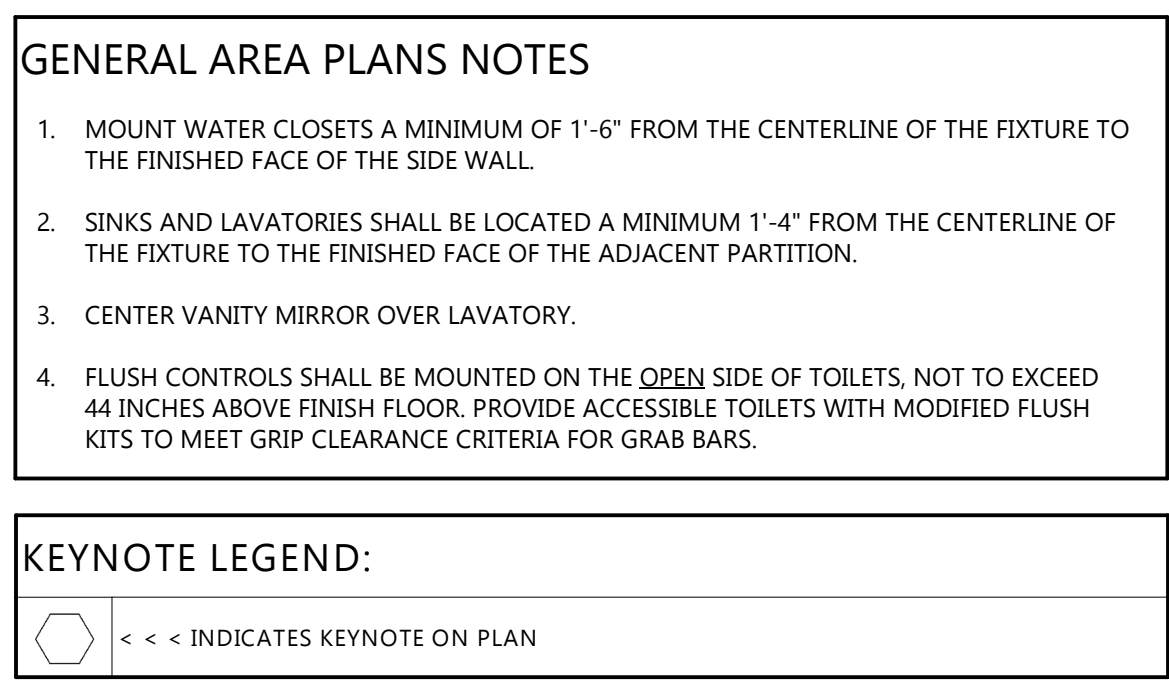
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DRAWING TITLE
SECOND FLOOR -
AREA A

A202A



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(OSE# R0319-23X/FTB)
(SDSU# WO#22-103751)

CITY	BROOKINGS
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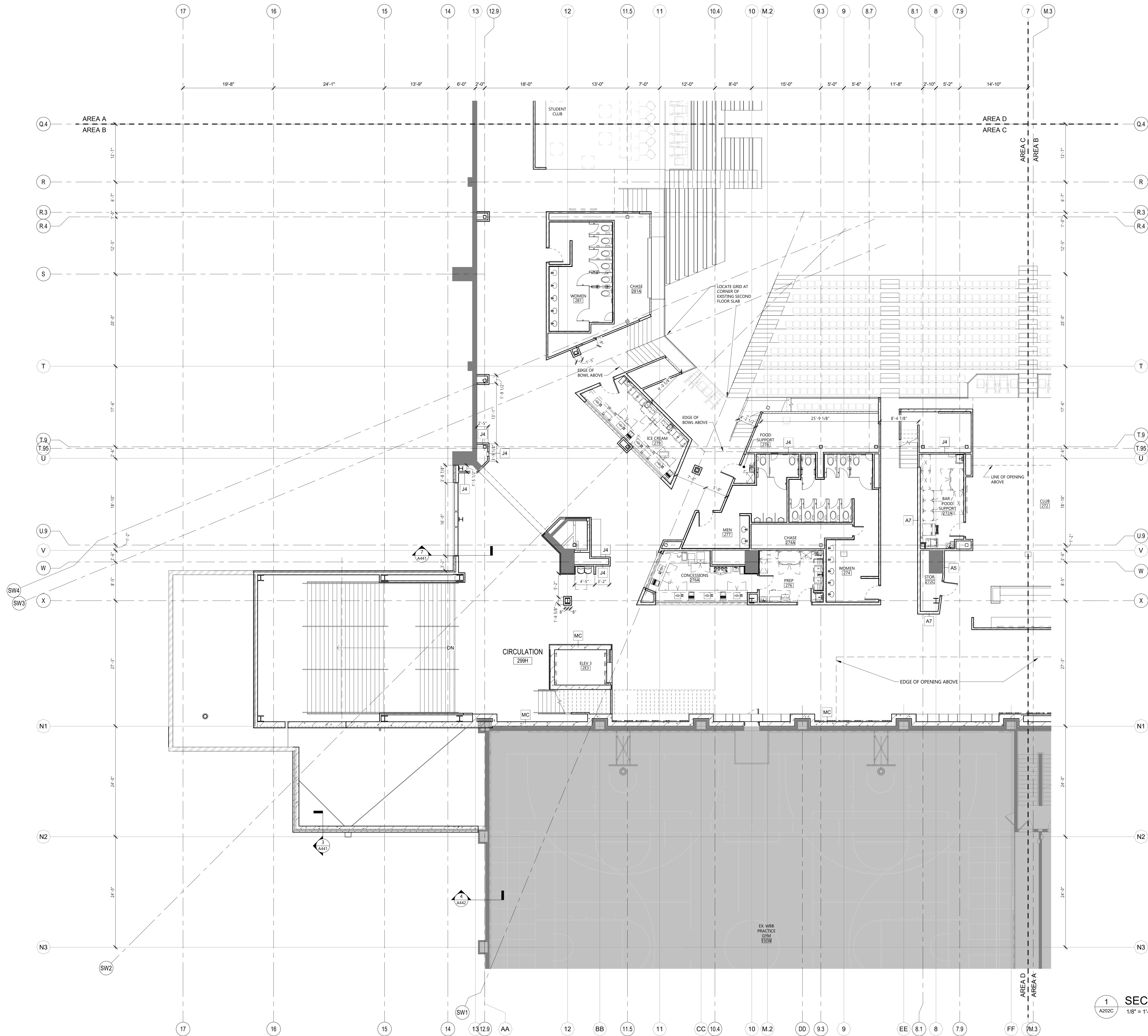
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DRAWING TITLE
SECOND FLOOR -
AREA B

A202B

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GENERAL AREA PLANS NOTES

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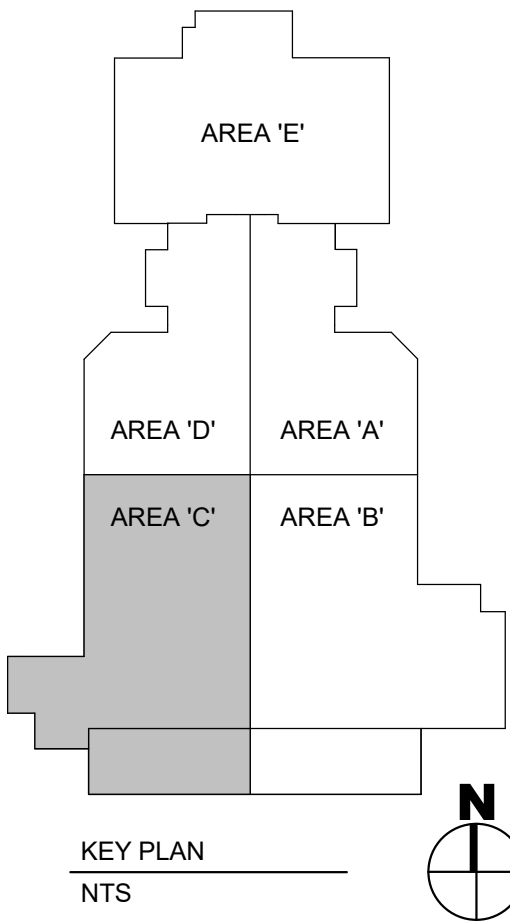
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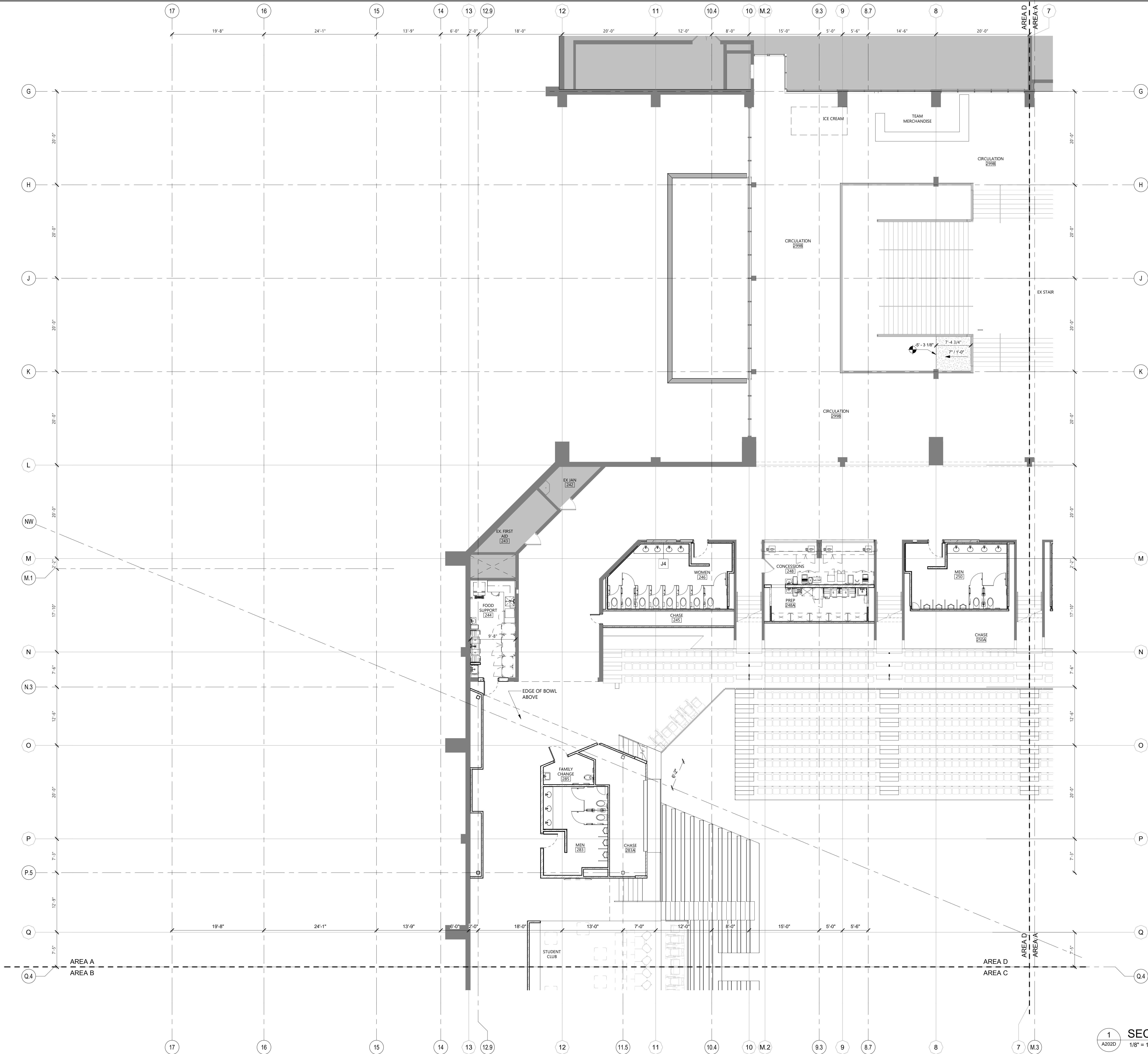
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DRAWING TITLE
SECOND FLOOR - AREA C

A202C

1 SECOND FLOOR - AREA C
A202C 1/8" = 1'-0"

Rev Date: 3/1/2023 3:17:16 PM



GENERAL AREA PLANS NOTES

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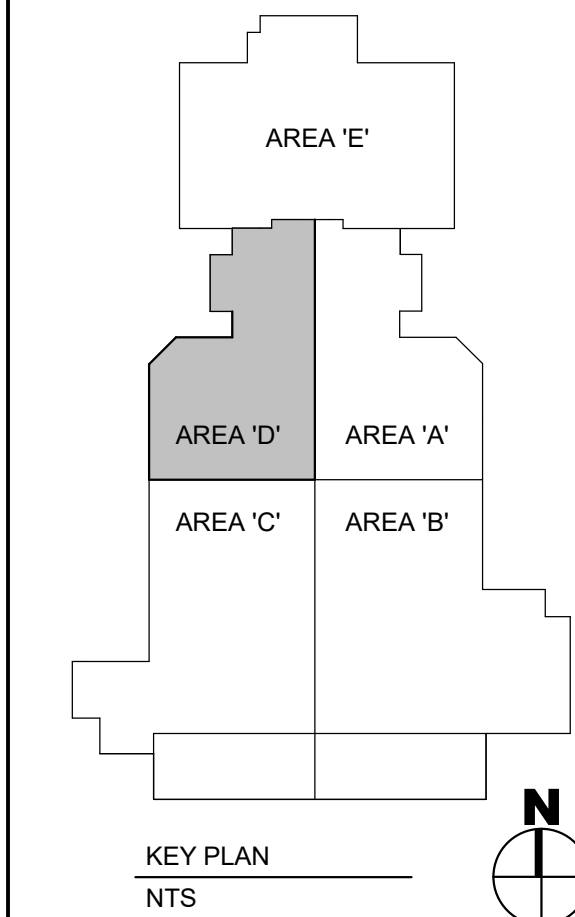
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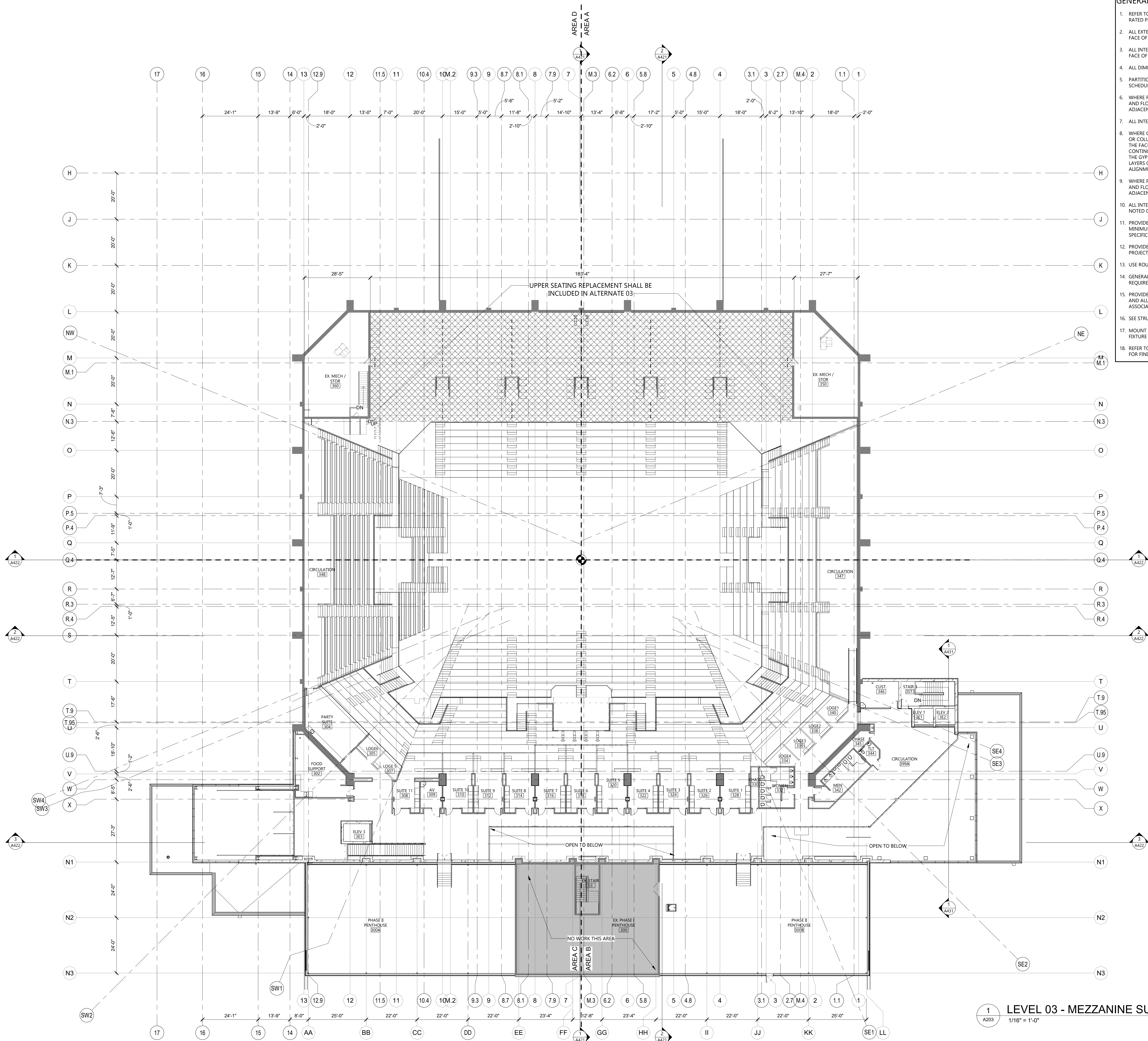
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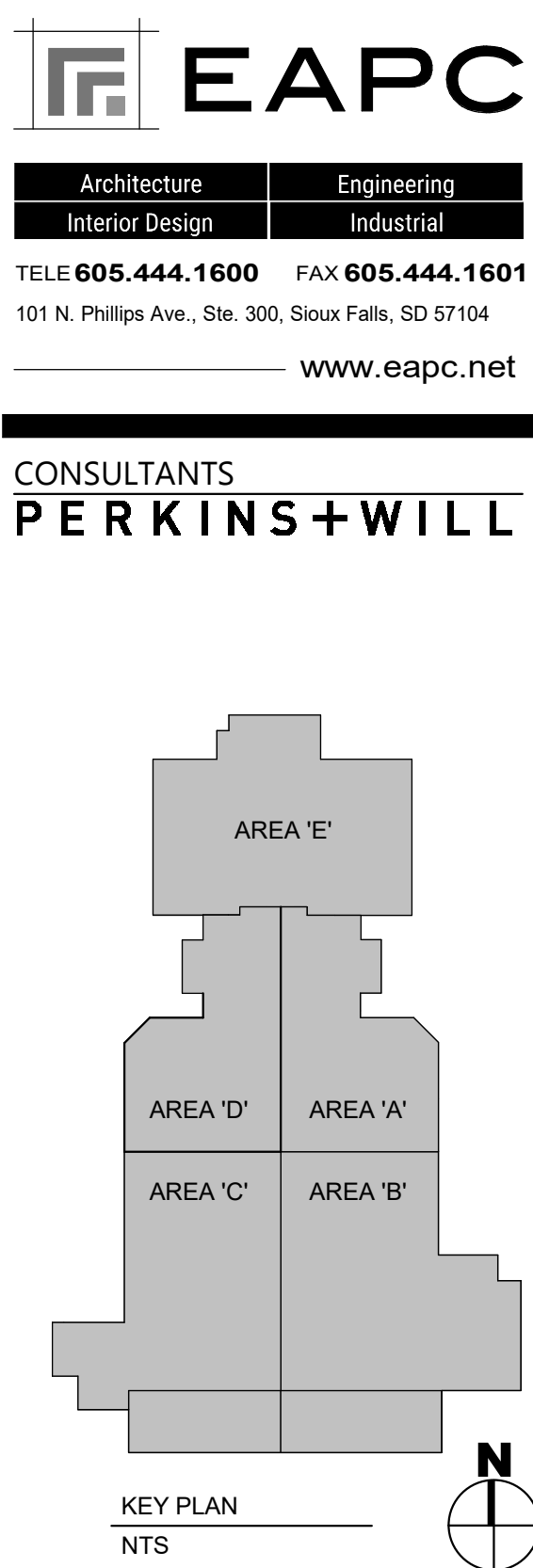
DRAWING TITLE
SECOND FLOOR - AREA D

A202D

1
A202D
SECOND FLOOR - AREA D
1/8" = 1'-0"



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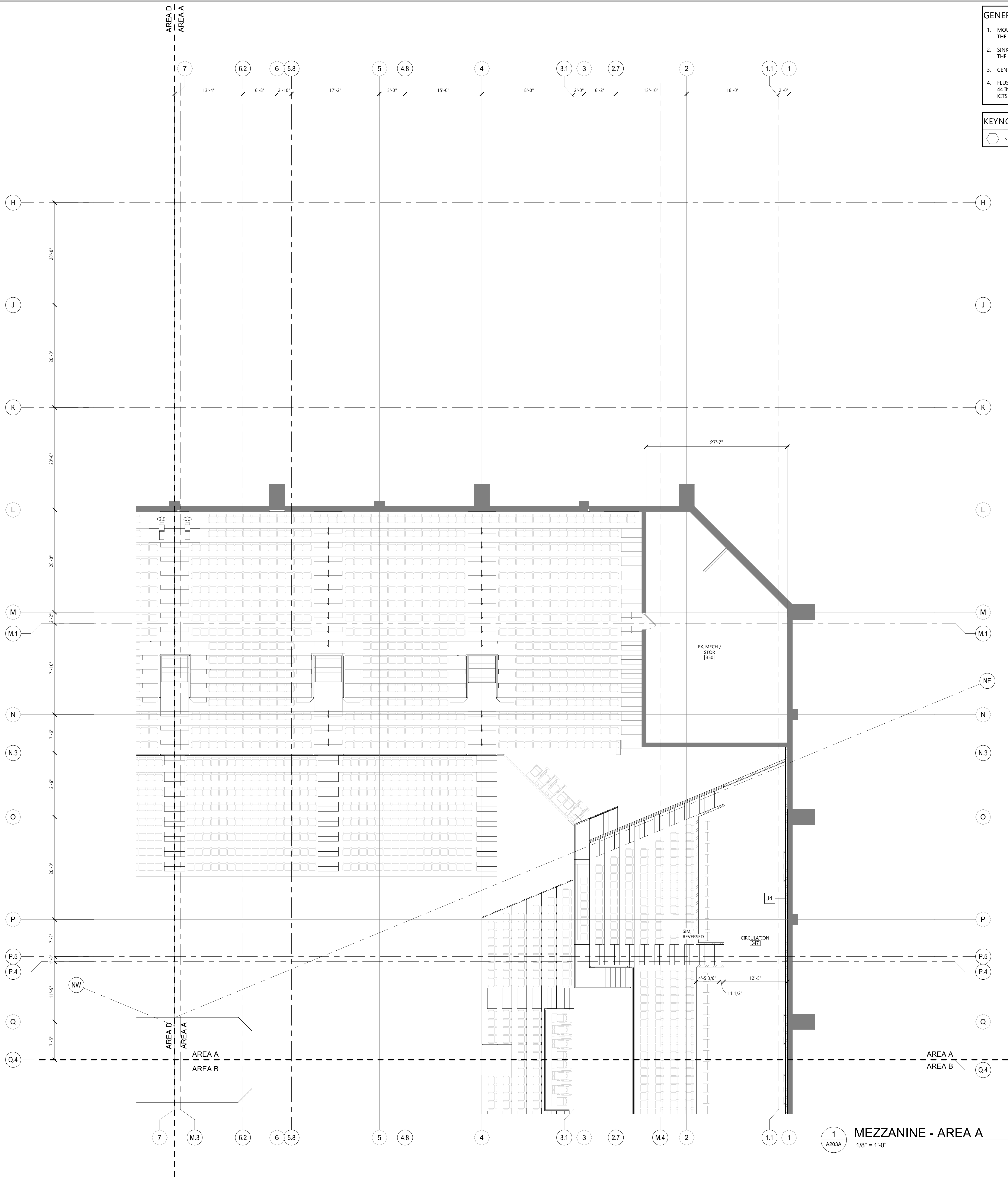
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DRAWING TITLE
MEZZANINE - OVERALL PLAN

A203

1
A203
LEVEL 03 - MEZZANINE SUITES
1/16" = 1'-0"

Rev Date: 3/7/2023 2:12:21 PM



GENERAL AREA PLANS NOTES

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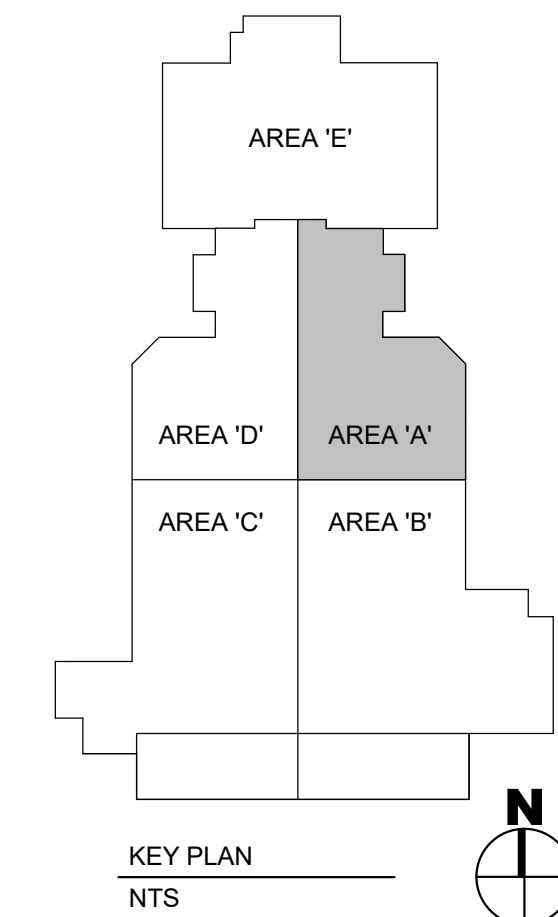
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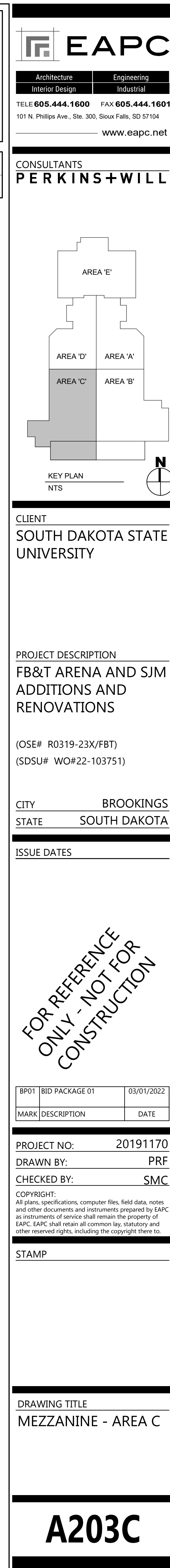
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MEZZANINE - AREA A

A203A

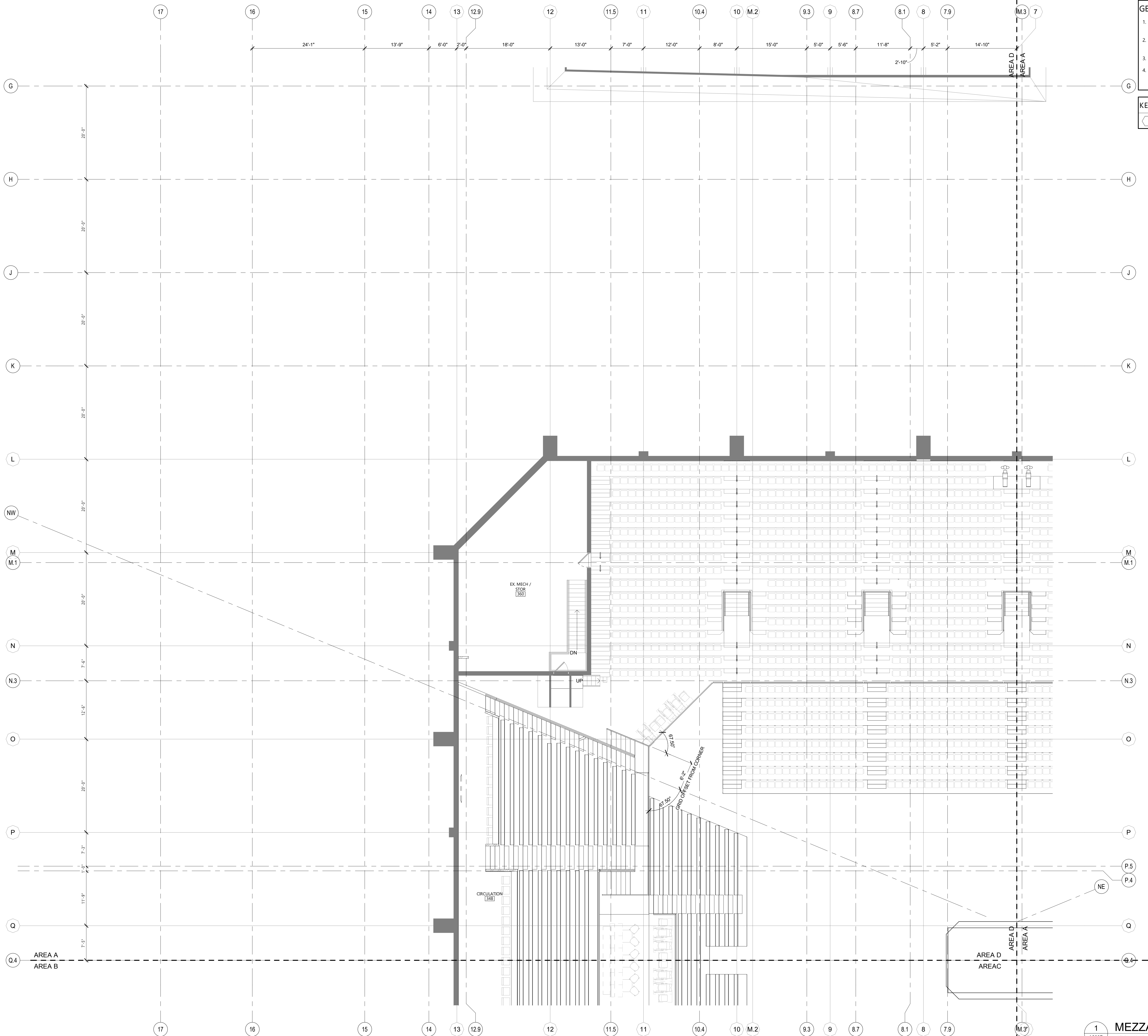


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Rev Date: 07/2022 2:12:46 PM



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AREA 'E'

AREA 'D'

AREA 'A'

AREA 'C'

AREA 'B'

KEY PLAN
NTS

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MEZZANINE - AREA D

A203D

1 MEZZANINE - AREA D
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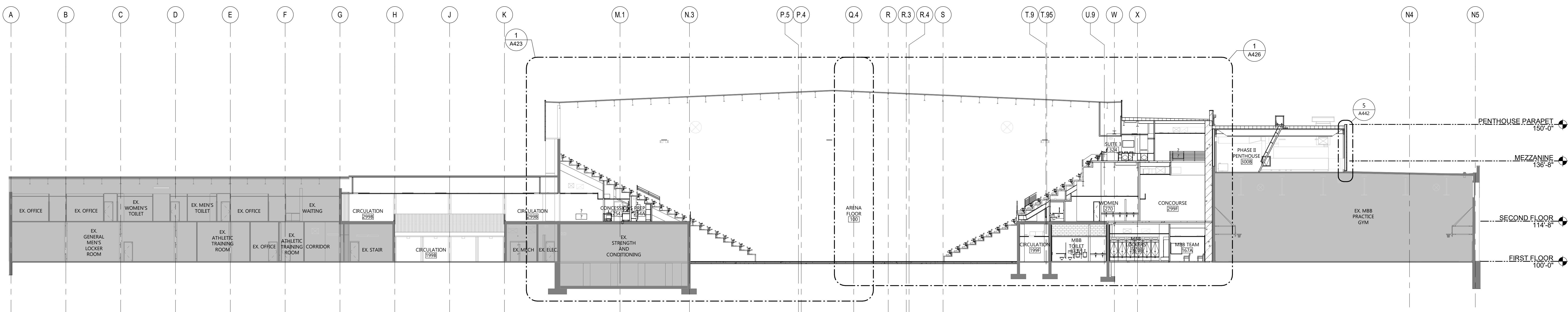
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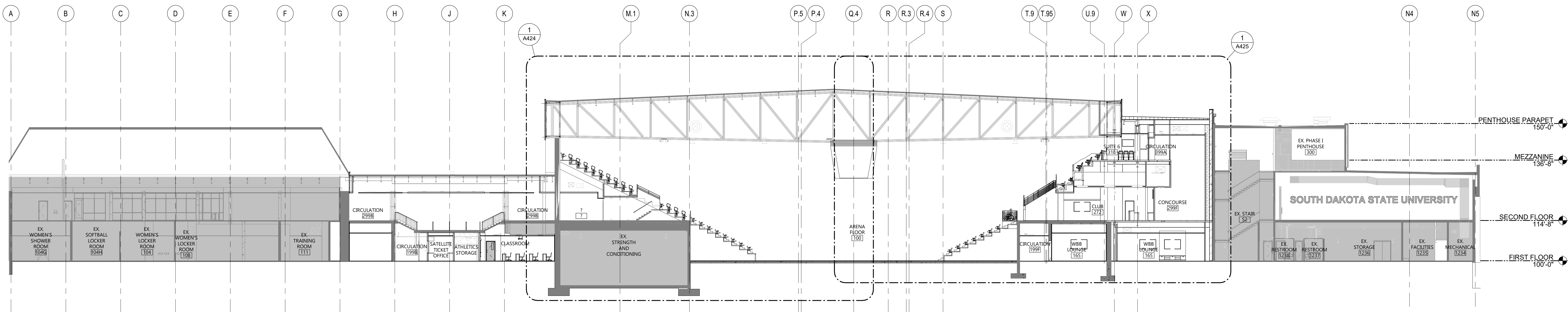
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DRAWING TITLE
OVERALL BUILDING SECTIONS

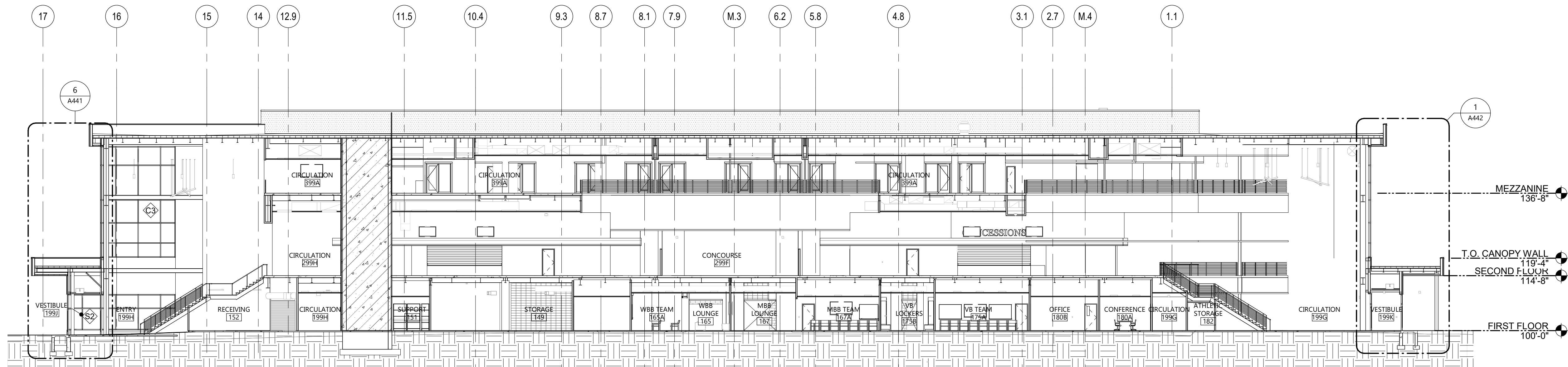
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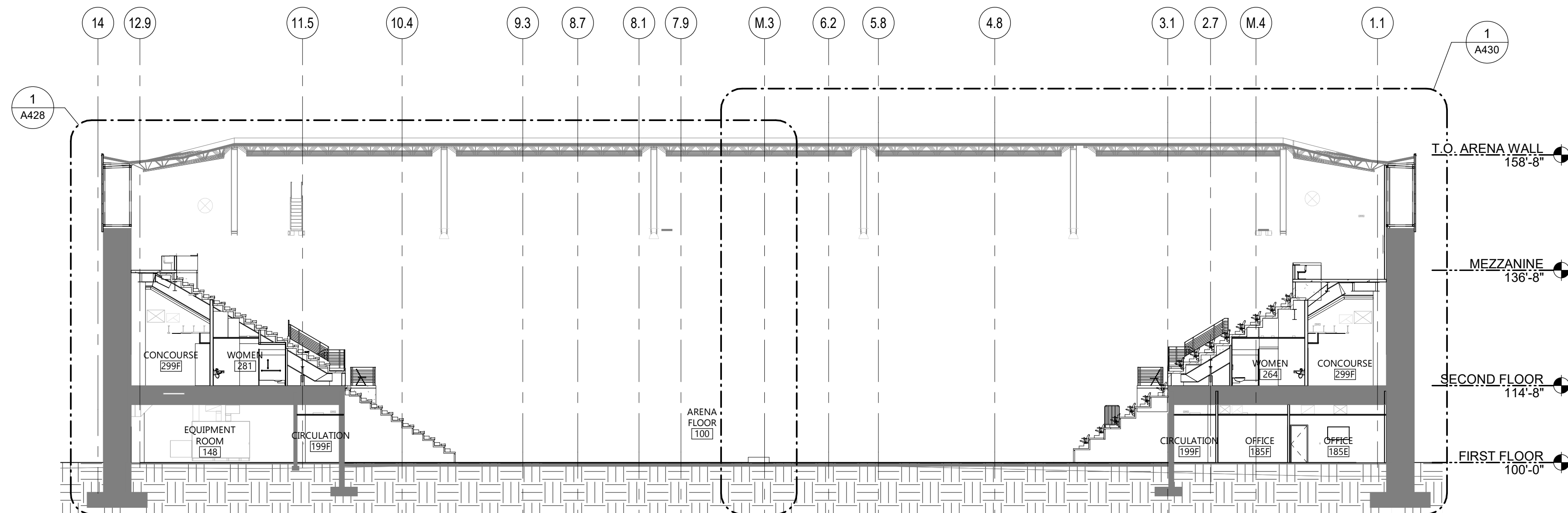
2 BUILDING SECTION - N-S
A421 1/16" = 1'-0"



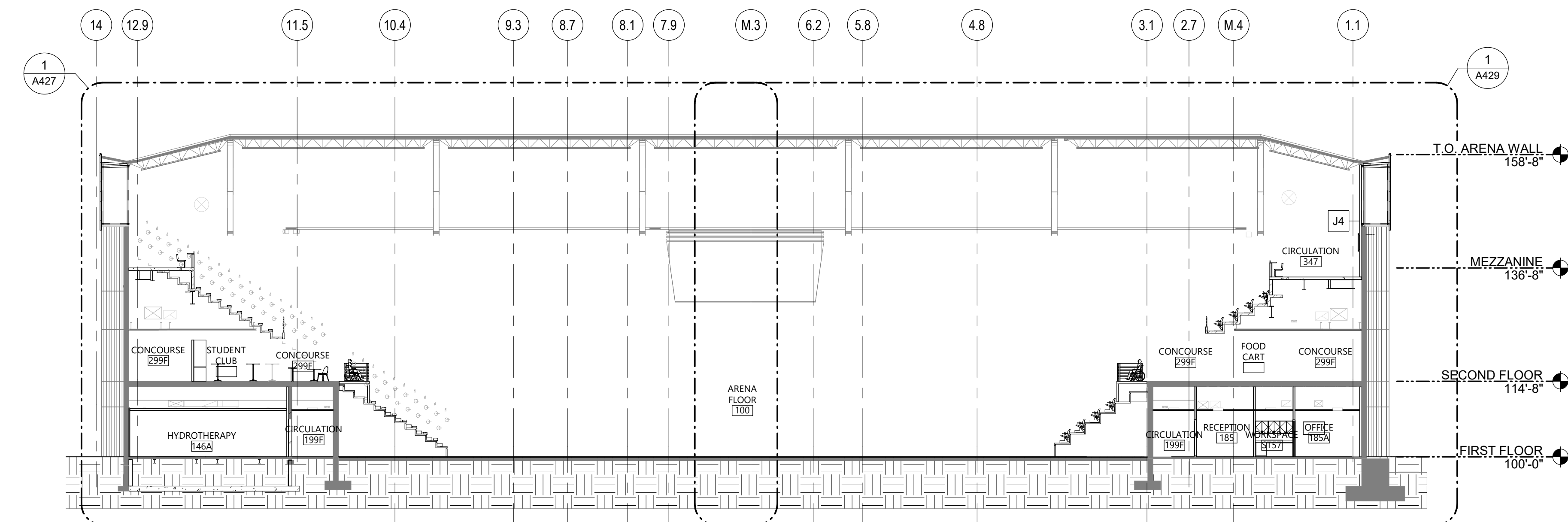
1 BUILDING SECTION - N-S
A421 1/16" = 1'-0"



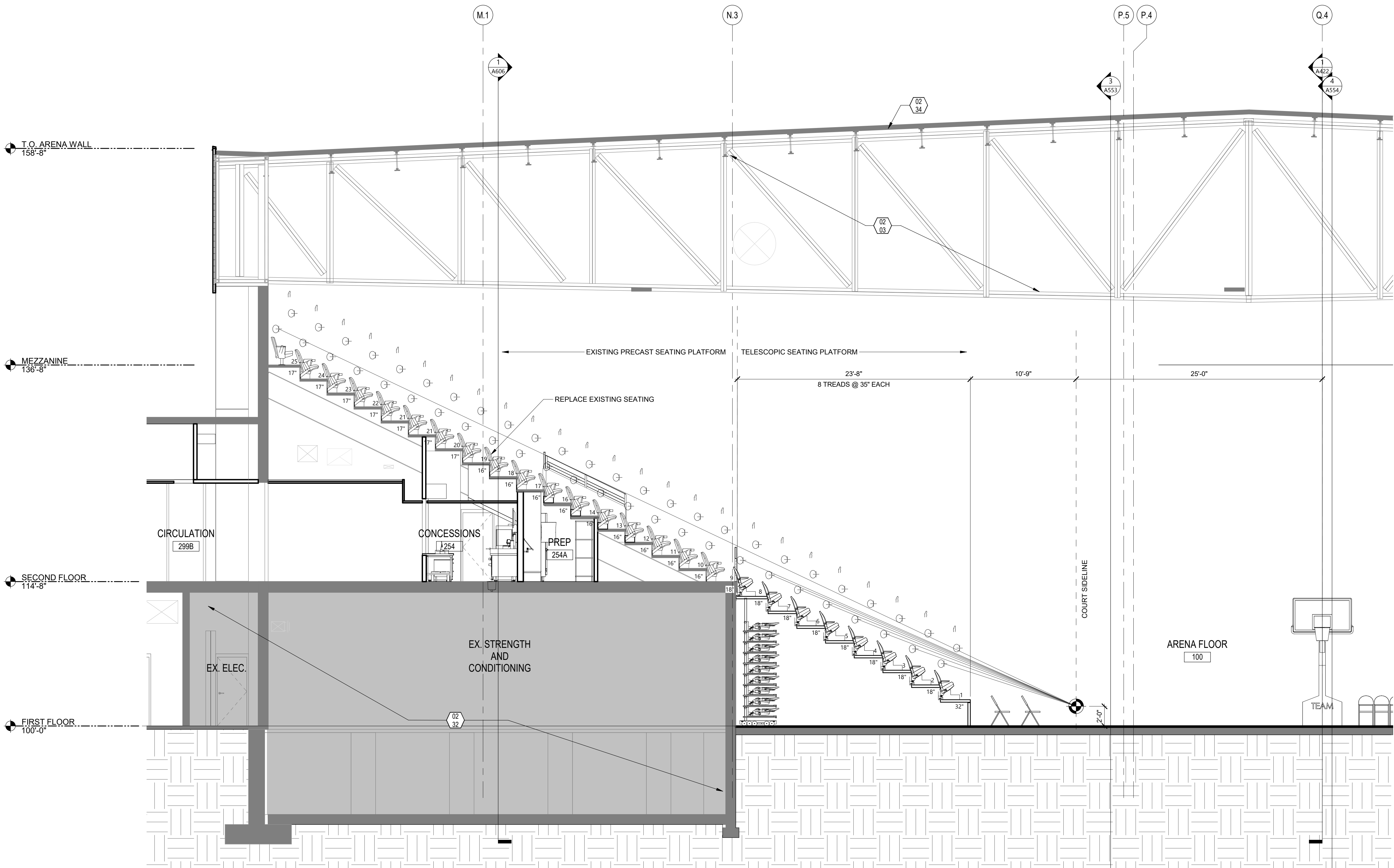
3 BUILDING SECTION - W-E 3
1/16" = 1'-0"



2 BUILDING SECTION - W-E 2
1/16" = 1'-0"



1 BUILDING SECTION - W-E 1
1/16" = 1'-0"



1
A423
TRANSVERSE SECTION - NORTH 2
3/16" = 1'-0"

KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
02 03	EXISTING STRUCTURE TO REMAIN.
02 32	NO ARCHITECTURAL WORK THIS AREA.
02 34	EX. ARENA ROOF.



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FB&T ARENA AND SJM
ADDITIONS AND
RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS
STATE SOUTH DAKOTA

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
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DRAWING TITLE
BUILDING SECTION -
TRANSVERSE NORTH

A423

KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
02 32	NO ARCHITECTURAL WORK THIS AREA.



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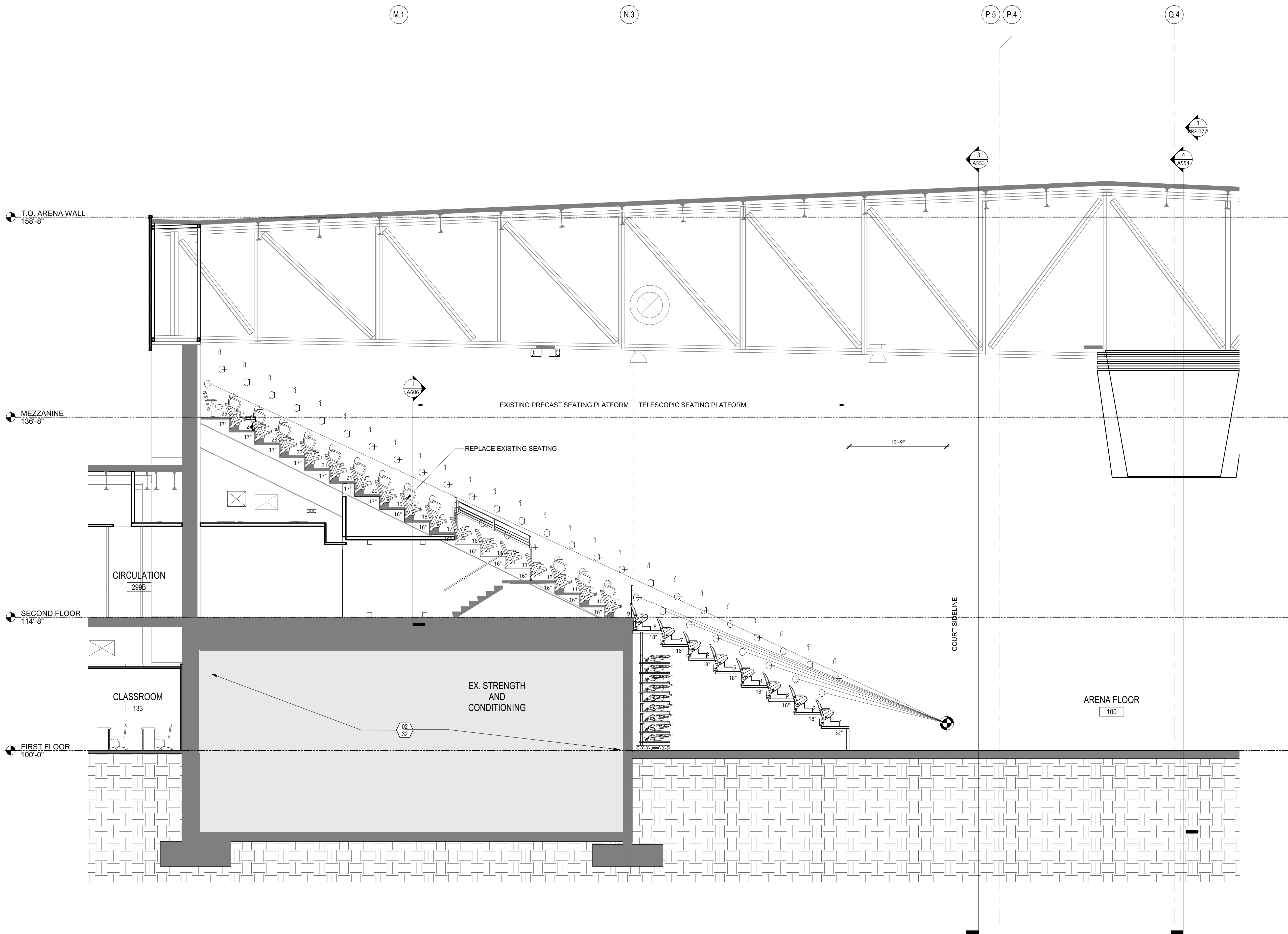
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
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DRAWING TITLE
BUILDING SECTION -
TRANSVERSE NORTH

A424



1 TRANSVERSE SECTION - NORTH 1
A424 3/16" = 1'-0"

KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
02 03	EXISTING STRUCTURE TO REMAIN.
02 34	EX. ARENA ROOF.

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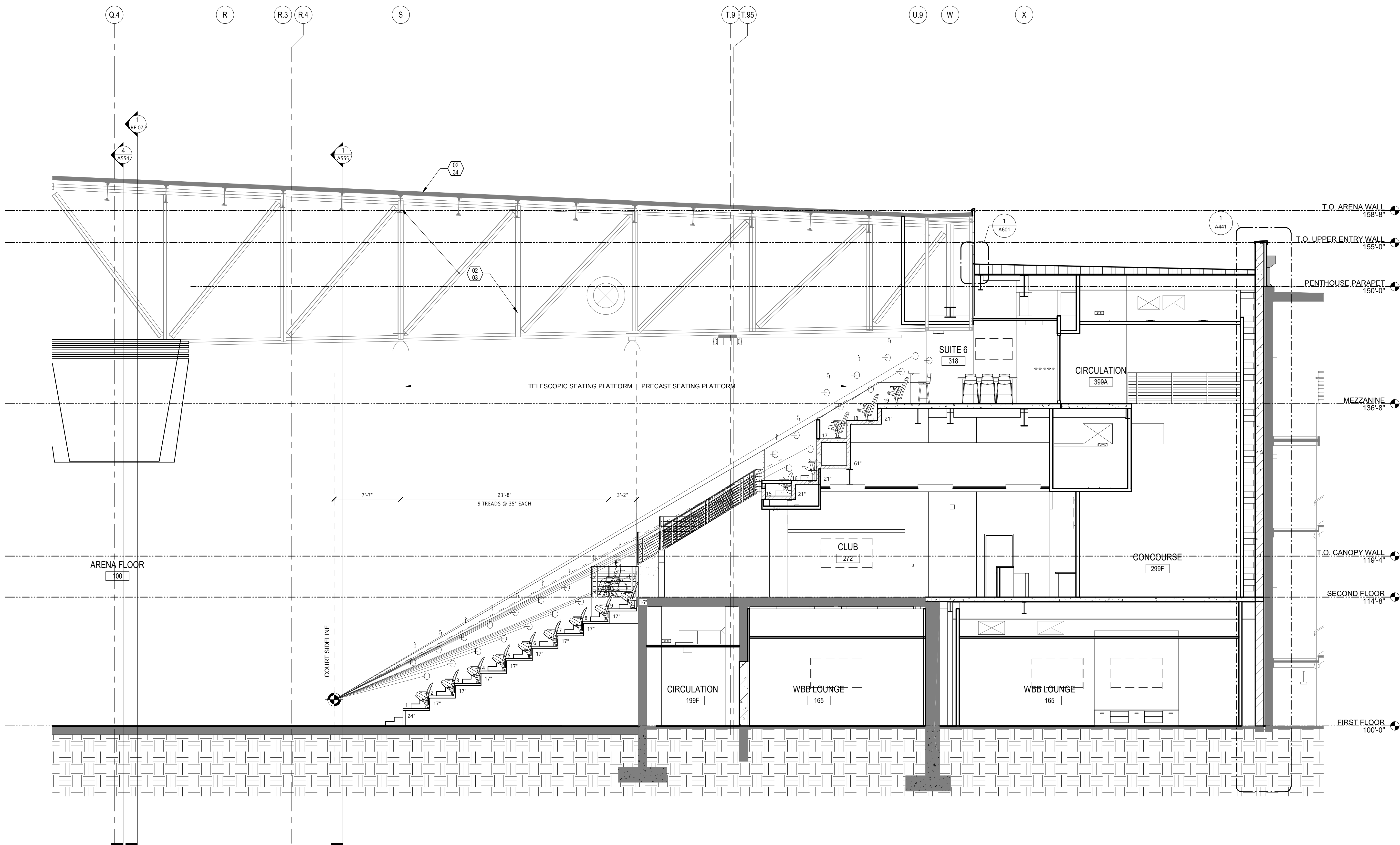
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
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DRAWING TITLE
BUILDING SECTION - TRANSVERSE SOUTH

A425



1 TRANSVERSE SECTION - SOUTH 1
A425 3/16" = 1'-0"

KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
02 03	EXISTING STRUCTURE TO REMAIN.
02 34	EX. ARENA ROOF.



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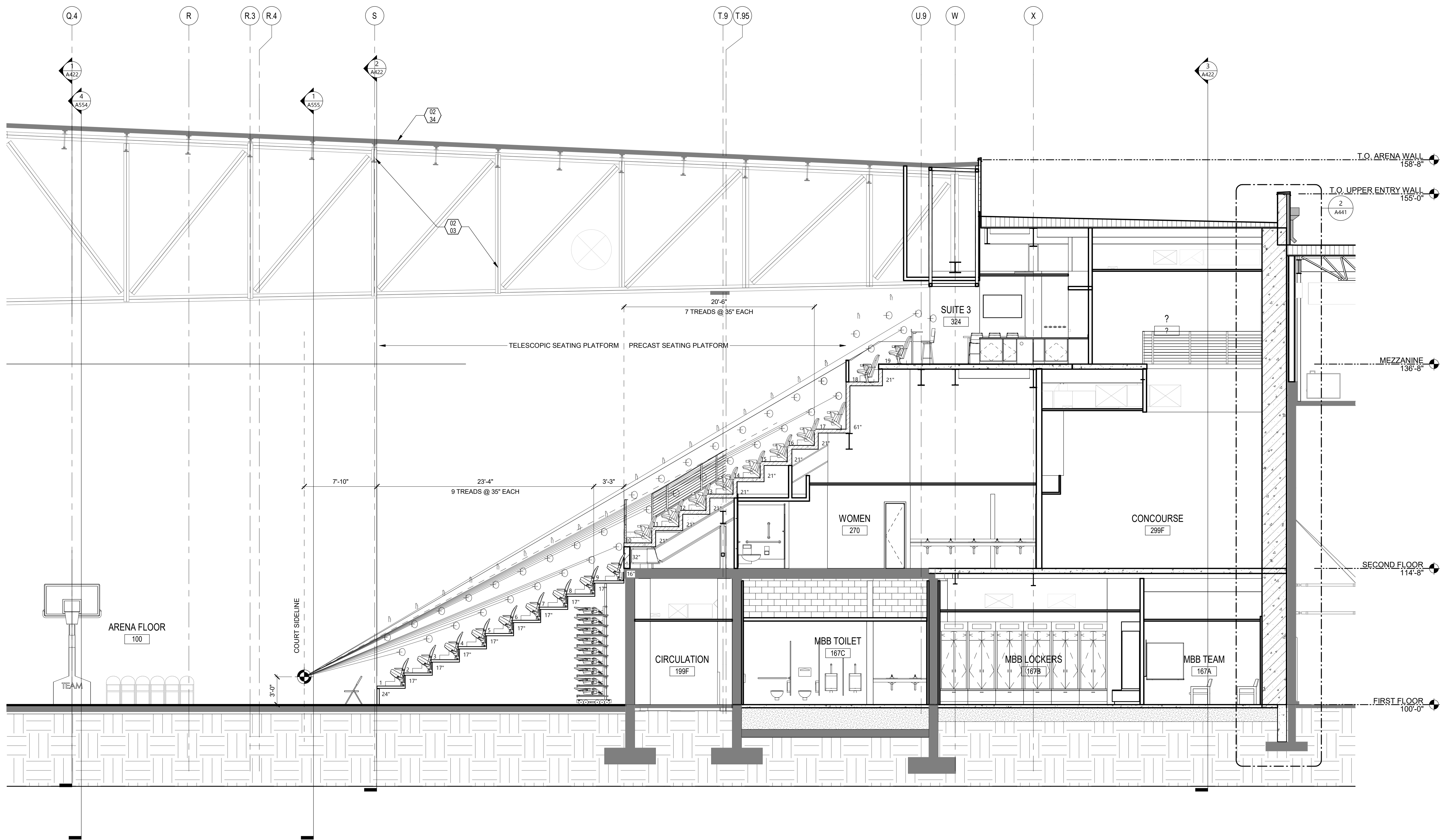
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
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DRAWING TITLE
BUILDING SECTION - TRANSVERSE SOUTH

A426



1
A426
TRANSVERSE SECTION - SOUTH 2
3/16" = 1'-0"

KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
02 03	EXISTING STRUCTURE TO REMAIN.
11 20	CENTER HUNG SCOREBOARD.



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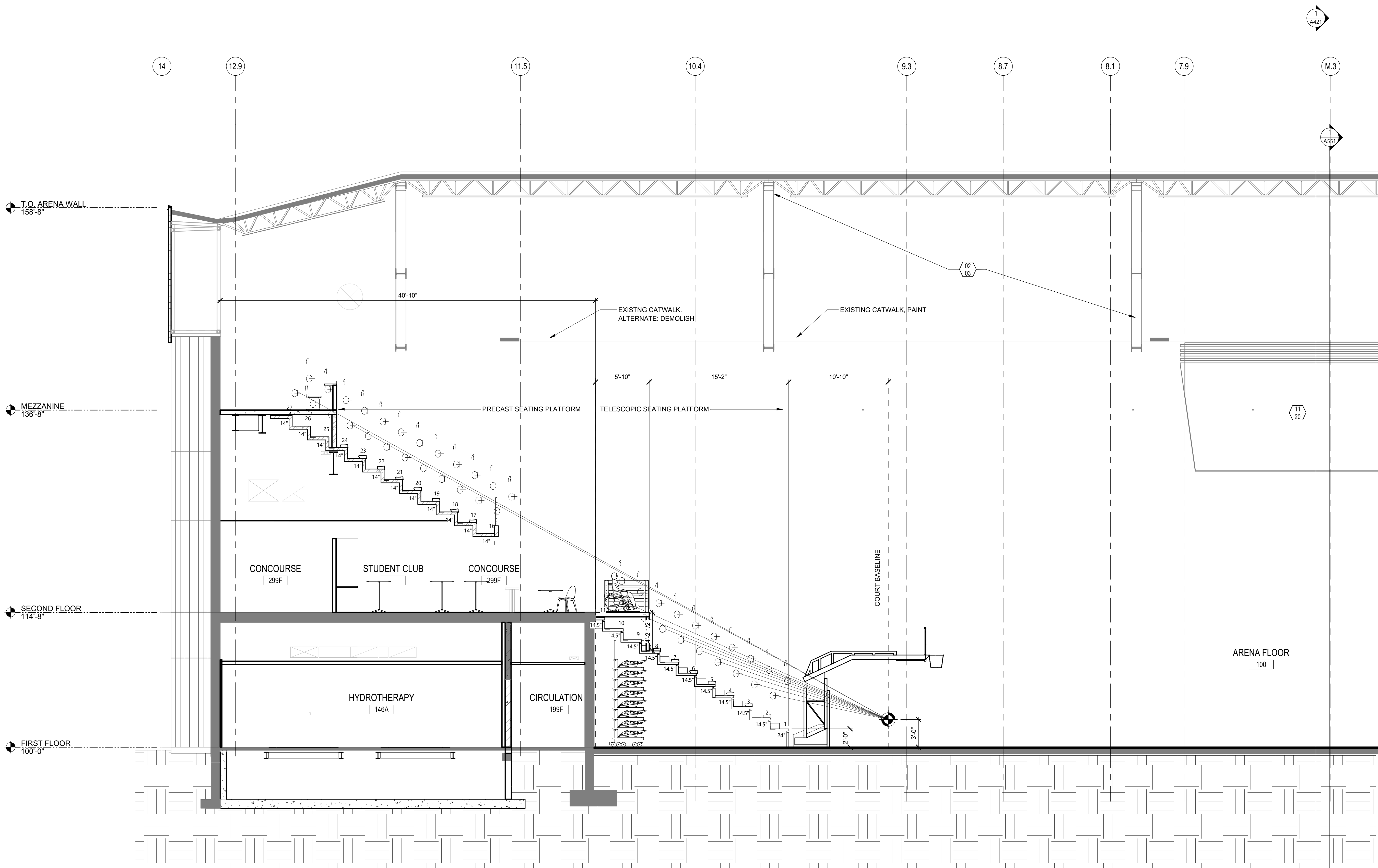
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DRAWING TITLE
BUILDING SECTION -
LONGITUDINAL WEST

A427



1 TRANSVERSE SECTION - WEST 1
A427 3/16" = 1'-0"

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
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BUILDING SECTION -
LONGITUDINAL WEST

A428



KEYNOTE LEGEND:	
	< < < INDICATES KEYNOTE ON PLAN
02 03	EXISTING STRUCTURE TO REMAIN.
11 20	CENTER HUNG SCOREBOARD.



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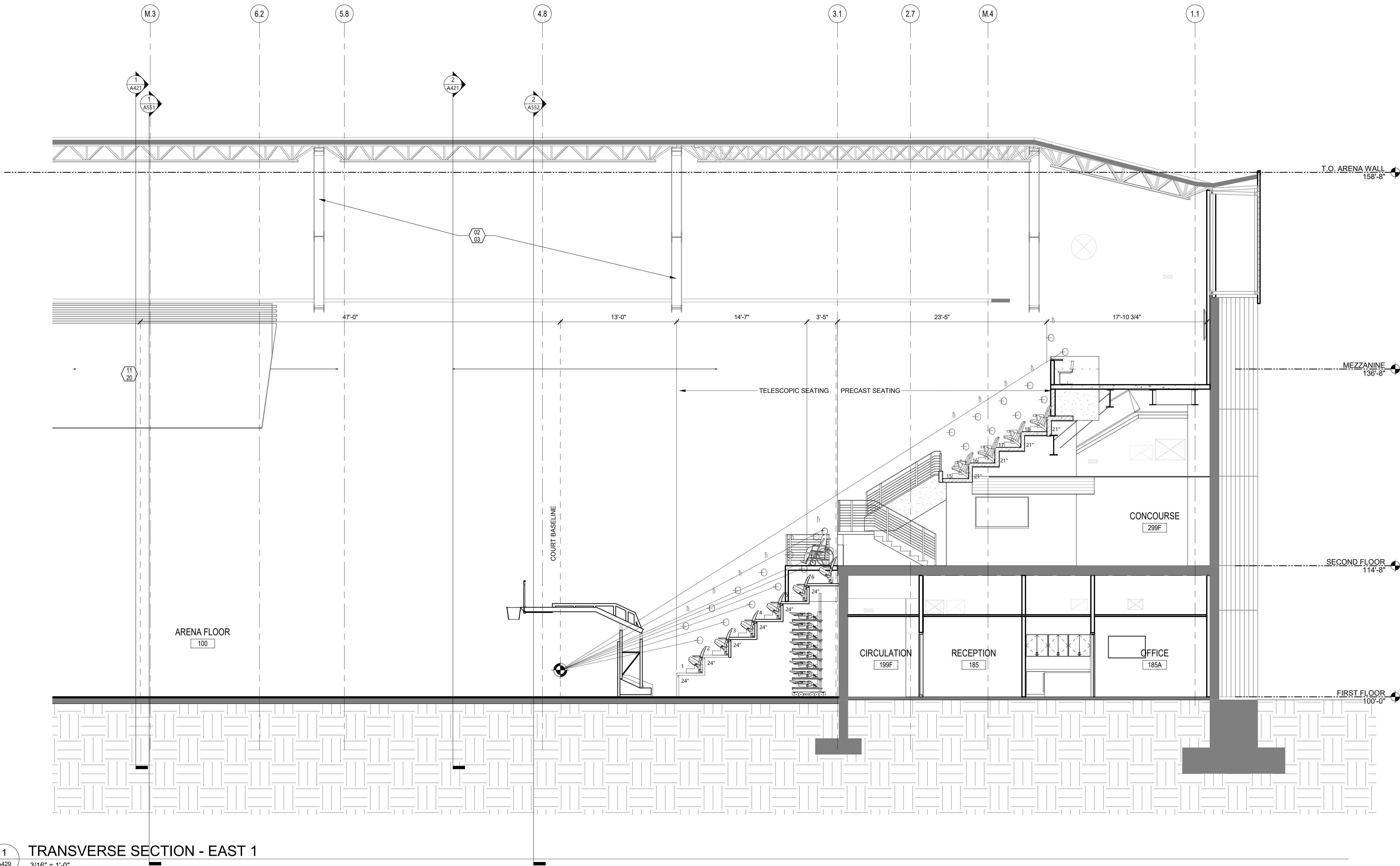
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BUILDING SECTION -
LONGITUDINAL EAST

A429



1 TRANSVERSE SECTION - EAST 1
A429 3/16" = 1'-0"

KEYNOTE LEGEND:	
	< < INDICATES KEYNOTE ON PLAN
02 03	EXISTING STRUCTURE TO REMAIN.
11 20	CENTER HUNG SCOREBOARD.



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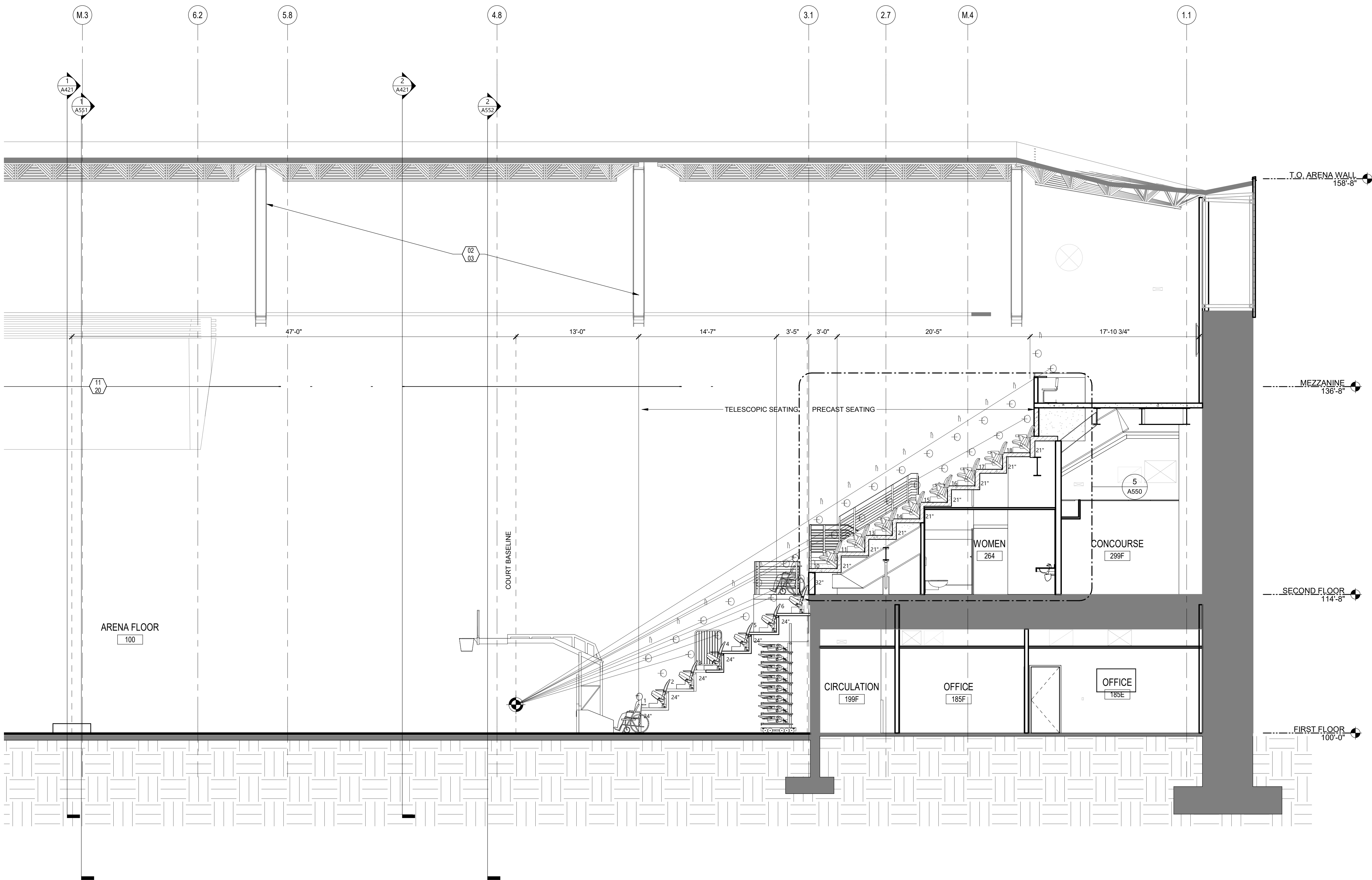
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BUILDING SECTION -
LONGITUDINAL EAST

A430



1 TRANSVERSE SECTION - EAST 2
A430 3/16" = 1'-0"

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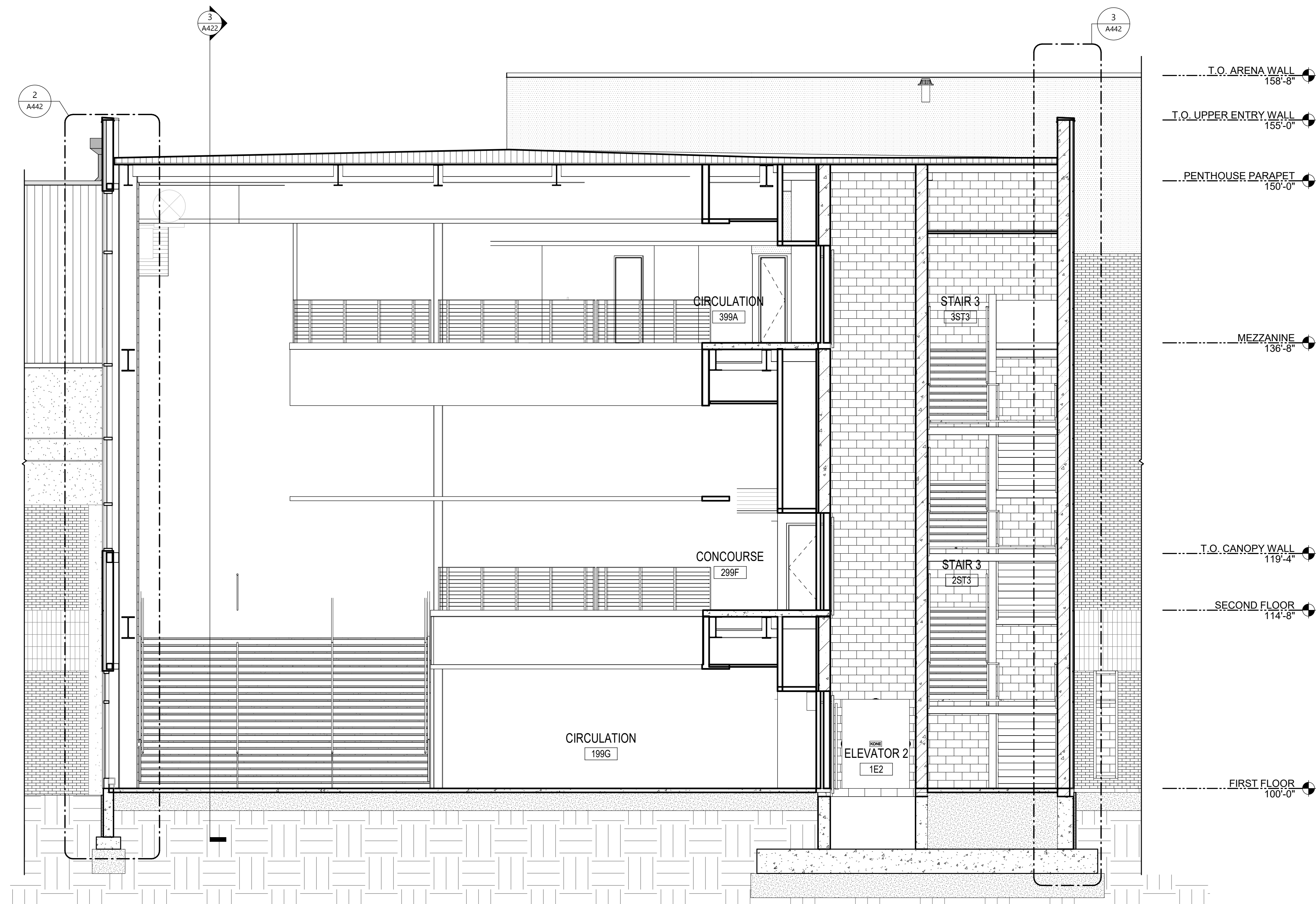
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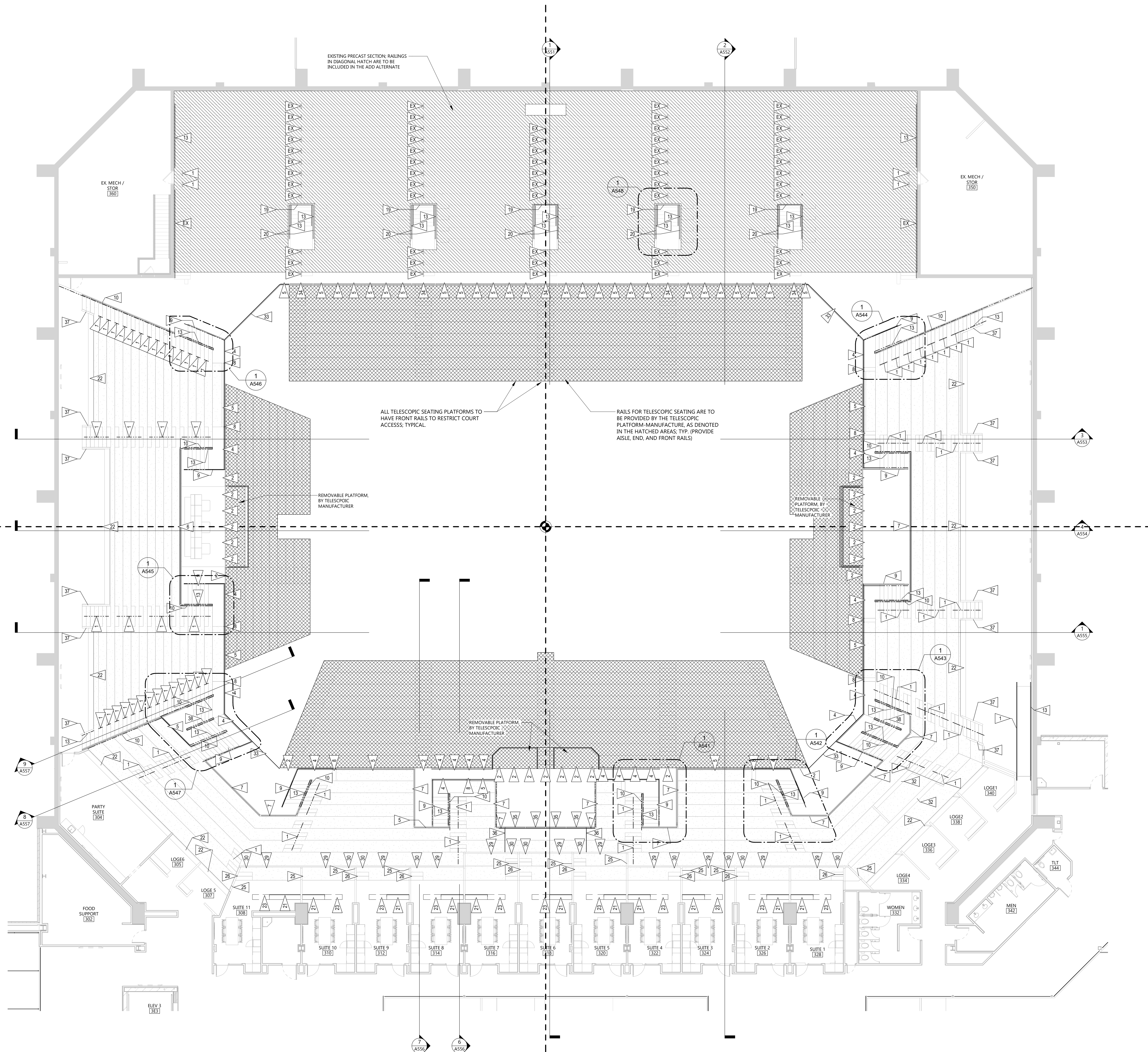
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DRAWING TITLE
BUILDING SECTION -
SE ENTRANCE

A431



1 SE ENTRANCE BUILDING SECTION
A431 3/16" = 1'-0"

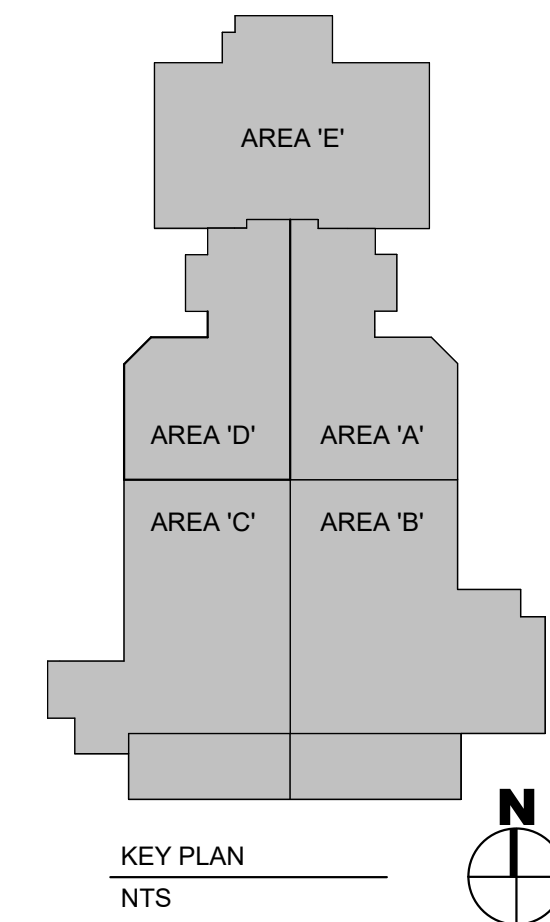


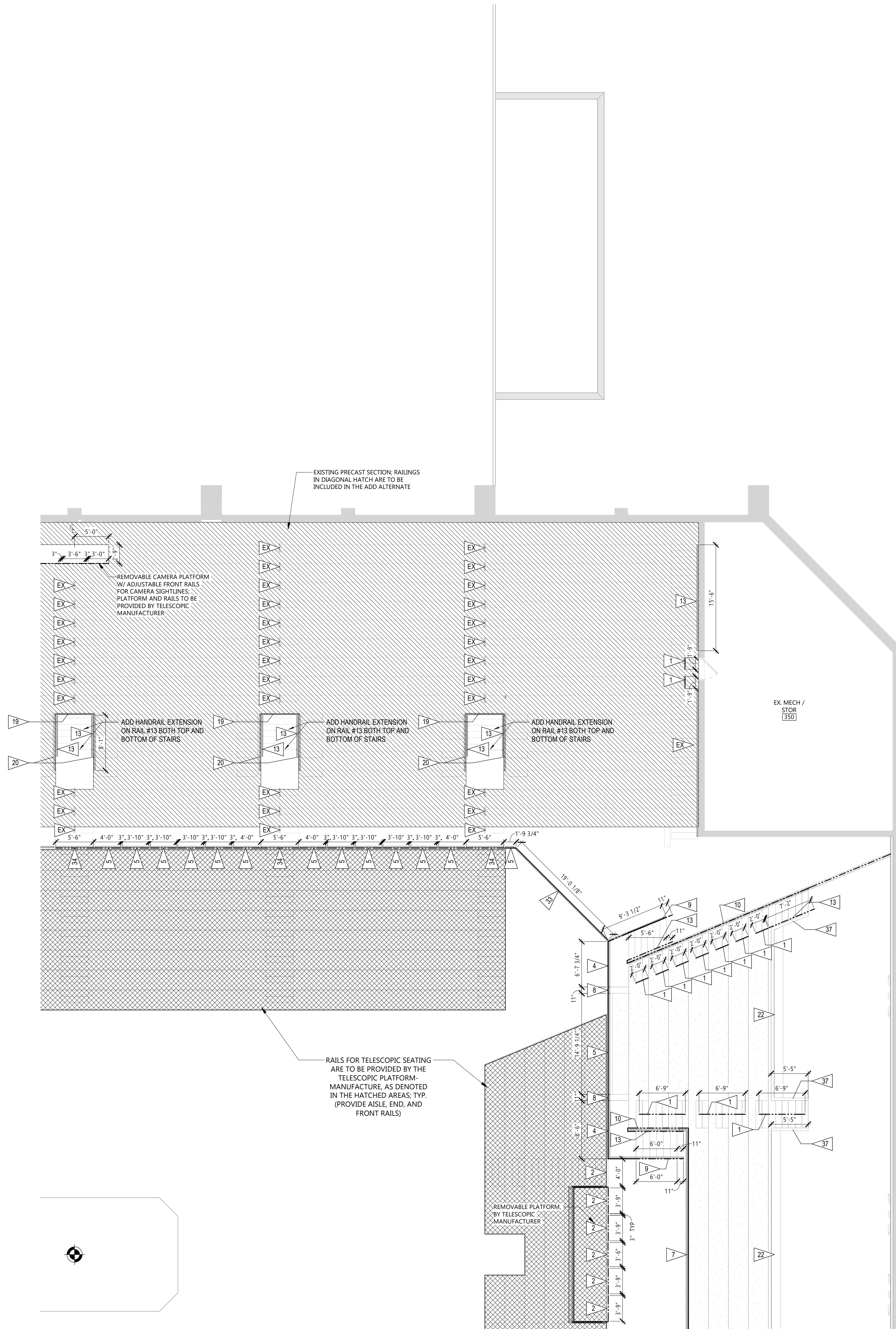
1 OVERALL RAILING PLAN
1" = 10'-0"

FLOOR PLAN GENERAL RAILING NOTES

1. REFER TO 14/A531 FOR TYPICAL PRECAST AISLE TREAD DETAIL.
2. REFER TO A531 THRU A533 FOR TYPICAL RAILING DETAILS.
3. PAINT RAILINGS, TYP. UNO.
4. REFER TO AREA PLANS FOR RAILING LENGTHS.
5. VERIFY EXISTING CONDITIONS, LENGTHS, AND RAIL SPACING TO EQUAL OUT IN THE FIELD

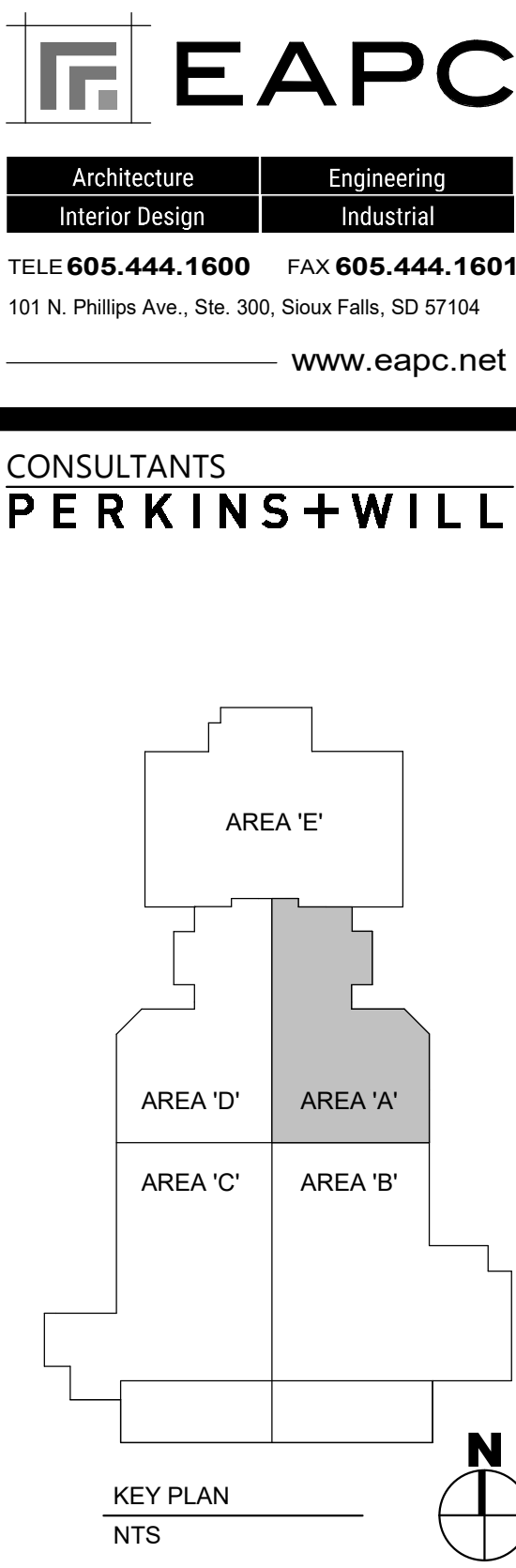
- 1 34" MID AISLE BOWL HANDRAIL; RE: 1/A531
- 2 42" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 2/A531
- 3 28" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 3/A531 (DETAIL NOT IN USE)
- 4 42" FIXED GUARDRAIL; RE: 4/A531
- 5 28" FIXED GUARDRAIL; RE: 4/A531
- 6 42" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 6/A531
- 7 28" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 7/A531
- 8 42" FIXED TOP MOUNTED GUARDRAIL WITH HANDRAIL; RE: 8/A531
- 9 42" FIXED FACE MOUNTED GUARDRAIL WITH HANDRAIL; RE: 9/A531
- 10 42" FIXED GUARDRAIL WITH HANDRAIL, VOMITORY SIDE; RE: 10/A531
- 11 42" FIXED GUARDRAIL ELEVATION; RE: 11/A531
- 12 42" REMOVABLE GUARDRAIL ELEVATION; RE: 12/A531 (DETAIL NOT IN USE)
- 13 HANDRAIL ATTACHMENT DETAILS; RE: 13/A531
- 14 BOWL AISLE TREAD DETAIL; RE: 14/A531
- 15 28" AND 42" REMOVABLE GUARDRAIL W/ HALFEN CHANNEL; RE: 15/A532 (DETAIL NOT IN USE)
- 16 28" AND 42" REMOVABLE GUARDRAIL W/ HALFEN CHANNEL ELEVATIONS; RE: 16/A532
- 17 NOT IN USE IN BOWL; RAIL DETAIL IS LOCATED IN NORTH LOBBY
- 18 NOT IN USE IN BOWL; RAIL DETAIL IS LOCATED IN NORTH LOBBY
- 19 DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL; RE: 19/A532
- 20 DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL AND PIPE HANDRAIL; RE: 20/A532
- 21 42" PLATERAIL W/ KICKSTOP; RE: 21/A533
- 22 34" LOGE DRINKRAIL; RE: 22/A533
- 23 42" ACCESSIBLE REMOVABLE PLATERAIL; RE: 23/A533
- 24 34" SUITE CENTER AISLE HANDRAIL; RE: 24/A533 (DETAIL NOT IN USE)
- 25 26" SUITE PARTITION; RE: 25/A533
- 26 26" SUITE PARTITION W/ HANDRAIL; RE: 26/A533
- 27 SUITE PARTITION ELEVATION; RE: 27/A533
- 28 26" SUITE GUARD; RE: 28/A533 (DETAIL NOT IN USE)
- 29 26" SUITE GUARD W/ DRINK RAIL; RE: 29/A533
- 30 42" SUITE GUARD AT AISLE; RE: 30/A533 EXTENTS VARIES, MATCH AISLE DIMENSION
- 31 42" SUITE GUARD AT AISLE ELEVATION; RE: 31/A533
- 32 30" PRESS DRINKRAIL; RE: 32/A534
- 33 28" TO 42" ADJUSTABLE GUARDRAIL; RE: 33/A534
- 34 42" SWING GUARDRAIL W/ REMOVABLE TOP; RE: 34/A534
- 35 CAMERA PLATFORM W/ CHAIN RAIL; RE: 35/A534
- 36 28" CAMERA PLATFORM GATE; RE: 36/A534
- 37 MEZZANINE PARTITION GUARD; RE: 37/A534
- 38 TWO INTERMITTENT 34" HANDRAILS BETWEEN VARYING STEP HEIGHTS; RE: 38/A534
- EX EXISTING RAIL





1
A530A
RAILING PLAN - AREA A
1/8\" = 1'-0"

FLOOR PLAN GENERAL RAILING NOTES	
1.	REFER TO 14/A531 FOR TYPICAL PRECAST AISLE TREAD DETAIL.
2.	REFER TO A531 THRU A533 FOR TYPICAL RAILING DETAILS.
3.	PAINT RAILINGS, TYP. UNO.
4.	REFER TO AREA PLANS FOR RAILING LENGTHS.
5.	VERIFY EXISTING CONDITIONS, LENGTHS, AND RAIL SPACING TO EQUAL OUT IN THE FIELD
1	34" MID AISLE BOWL HANDRAIL; RE: 1/A531
2	42" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 2/A531
3	28" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 3/A531 (DETAIL NOT IN USE)
4	42" FIXED GUARDRAIL; RE: 4/A531
5	28" FIXED GUARDRAIL; RE: 4/A531
6	42" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 6/A531
7	28" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 7/A531
8	42" FIXED TOP MOUNTED GUARDRAIL WITH HANDRAIL; RE: 8/A531
9	42" FIXED FACE MOUNTED GUARDRAIL WITH HANDRAIL; RE: 9/A531
10	42" FIXED GUARDRAIL WITH HANDRAIL, VOMITORY SIDE; RE: 10/A531
11	42" FIXED GUARDRAIL ELEVATION; RE: 11/A531
12	42" REMOVABLE GUARDRAIL ELEVATION; RE: 12/A531 (DETAIL NOT IN USE)
13	HANDRAIL ATTACHMENT DETAILS; RE: 13/A531
14	BOWL AISLE TREAD DETAIL; RE: 14/A531
15	28" AND 42" REMOVABLE GUARDRAIL W/ HALFEN CHANNEL; RE: 15/A532 (DETAIL NOT IN USE)
16	28" AND 42" REMOVABLE GUARDRAIL W/ HALFEN CHANNEL ELEVATIONS; RE: 16/A532
17	NOT IN USE IN BOWL; RAIL DETAIL IS LOCATED IN NORTH LOBBY
18	NOT IN USE IN BOWL; RAIL DETAIL IS LOCATED IN NORTH LOBBY
19	DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL; RE: 19/A532
20	DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL AND PIPE HANDRAIL; RE: 20/A532
21	42" PLATERAIL W/ KICKSTOP; RE: 21/A533
22	34" LOGE DRINKRAIL; RE: 22/A533
23	42" ACCESSIBLE REMOVABLE PLATERAIL; RE: 23/A533
24	34" SUITE CENTER AISLE HANDRAIL; RE: 24/A533 (DETAIL NOT IN USE)
25	26" SUITE PARTITION; RE: 25/A533
26	26" SUITE PARTITION W/ HANDRAIL; RE: 26/A533
27	SUITE PARTITION ELEVATION; RE: 27/A533
28	26" SUITE GUARD; RE: 28/A533 (DETAIL NOT IN USE)
29	26" SUITE GUARD W/ DRINK RAIL; RE: 29/A533
30	42" SUITE GUARD AT AISLE; RE: 30/A533 EXTENTS VARIES, MATCH AISLE DIMENSION
31	42 SUITE GUARD AT AISLE ELEVATION; RE: 31/A533
32	30" PRESS DRINKRAIL; RE: 32/A534
33	28" TO 42" ADJUSTABLE GUARDRAIL; RE: 33/A534
34	42" SWING GUARDRAIL W/ REMOVABLE TOP; RE: 34/A534
35	CAMERA PLATFORM W/ CHAIN RAIL; RE: 35/A534
36	28" CAMERA PLATFORM GATE; RE: 36/A534
37	MEZZANINE PARTITION GUARD; RE: 37/A534
38	TWO INTERMITTENT 34" HANDRAILS BETWEEN VARYING STEP HEIGHTS; RE: 38/A534
EX	EXISTING RAIL



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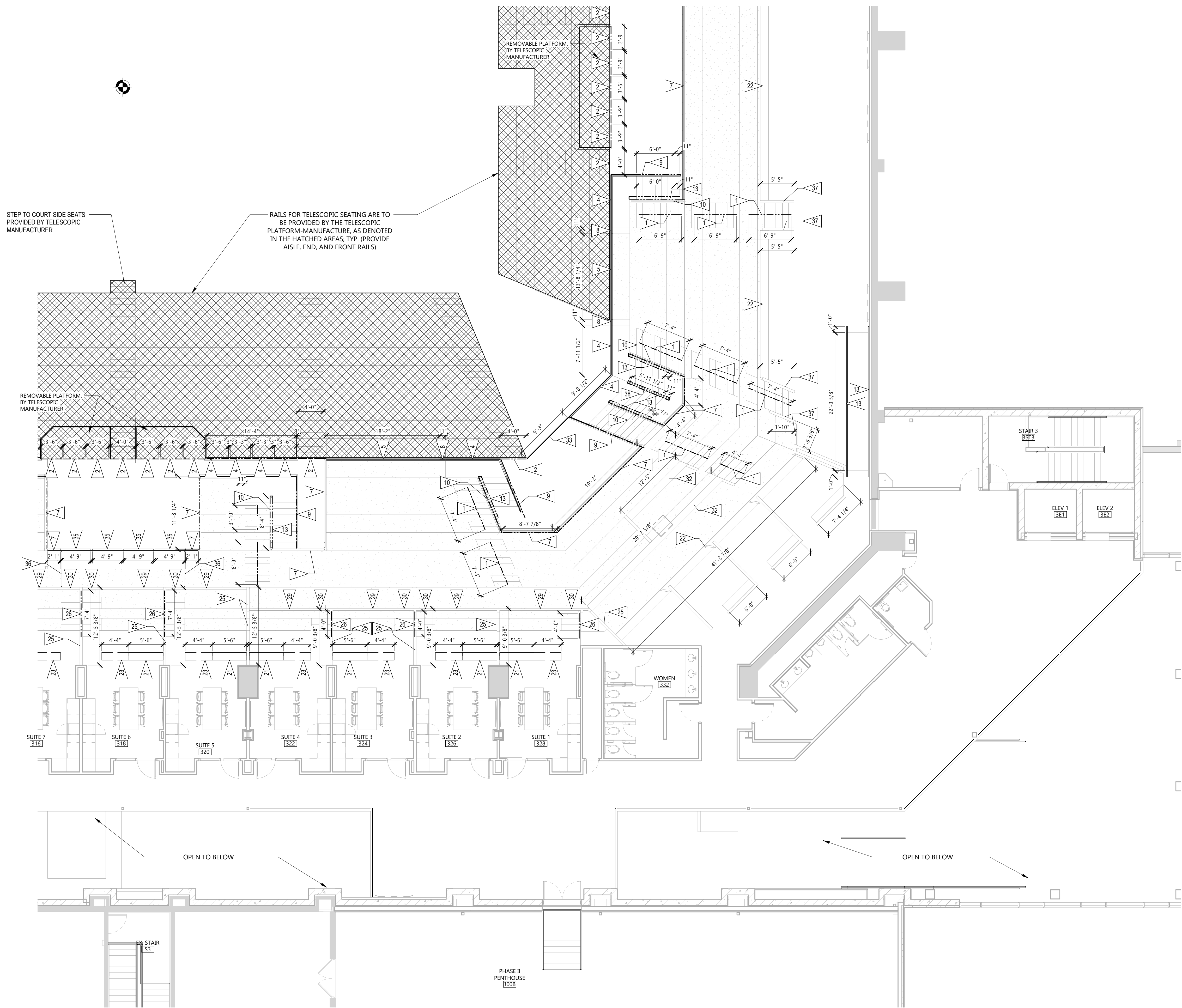
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RAILING PLAN - AREA A

A530A

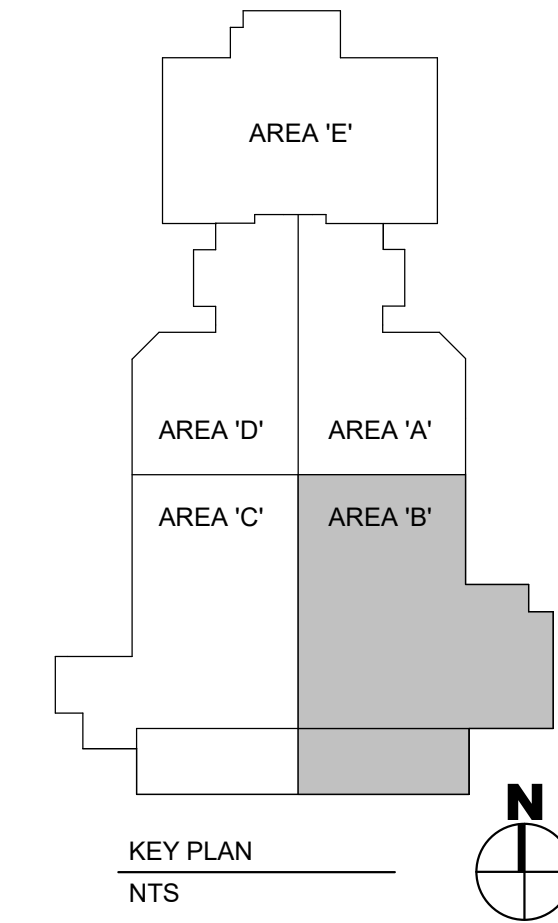


1 RAILING PLAN - AREA B
1/8" = 1'-0"

FLOOR PLAN GENERAL RAILING NOTES

1. REFER TO 14/A531 FOR TYPICAL PRECAST AISLE TREAD DETAIL.
2. REFER TO A531 THRU A533 FOR TYPICAL RAILING DETAILS.
3. PAINT RAILINGS, TYP. UNO.
4. REFER TO AREA PLANS FOR RAILING LENGTHS.
5. VERIFY EXISTING CONDITIONS, LENGTHS, AND RAIL SPACING TO EQUAL OUT IN THE FIELD

- 1 34" MID AISLE BOWL HANDRAIL; RE: 1/A531
- 2 42" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 2/A531
- 3 28" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 3/A531 (DETAIL NOT IN USE)
- 4 42" FIXED GUARDRAIL; RE: 4/A531
- 5 28" FIXED GUARDRAIL; RE: 4/A531
- 6 42" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 6/A531
- 7 28" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 7/A531
- 8 42" FIXED TOP MOUNTED GUARDRAIL WITH HANDRAIL; RE: 8/A531
- 9 42" FIXED FACE MOUNTED GUARDRAIL WITH HANDRAIL; RE: 9/A531
- 10 42" FIXED GUARDRAIL WITH HANDRAIL, VOMITORY SIDE; RE: 10/A531
- 11 42" FIXED GUARDRAIL ELEVATION; RE: 11/A531
- 12 42" REMOVABLE GUARDRAIL ELEVATION; RE: 12/A531 (DETAIL NOT IN USE)
- 13 HANDRAIL ATTACHMENT DETAILS; RE: 13/A531
- 14 BOWL AISLE TREAD DETAIL; RE: 14/A531
- 15 28" AND 42" REMOVABLE GUARDRAIL W/ HALFEN CHANNEL; RE: 15/A532 (DETAIL NOT IN USE)
- 16 28" AND 42" REMOVABLE GUARDRAIL W/ HALFEN CHANNEL ELEVATIONS; RE: 16/A532
- 17 NOT IN USE IN BOWL; RAIL DETAIL IS LOCATED IN NORTH LOBBY
- 18 NOT IN USE IN BOWL; RAIL DETAIL IS LOCATED IN NORTH LOBBY
- 19 DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL; RE: 19/A532
- 20 DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL AND PIPE HANDRAIL; RE: 20/A532
- 21 42" PLATERAIL W/ KICKSTOP; RE: 21/A533
- 22 34" LOGE DRINKRAIL; RE: 22/A533
- 23 42" ACCESSIBLE REMOVABLE PLATERAIL; RE: 23/A533
- 24 34" SUITE CENTER AISLE HANDRAIL; RE: 24/A533 (DETAIL NOT IN USE)
- 25 26" SUITE PARTITION; RE: 25/A533
- 26 26" SUITE PARTITION W/ HANDRAIL; RE: 26/A533
- 27 SUITE PARTITION ELEVATION; RE: 27/A533
- 28 26" SUITE GUARD; RE: 28/A533 (DETAIL NOT IN USE)
- 29 26" SUITE GUARD W/ DRINK RAIL; RE: 29/A533
- 30 42" SUITE GUARD AT AISLE; RE: 30/A533 EXTENTS VARIES, MATCH AISLE DIMENSION
- 31 42" SUITE GUARD AT AISLE ELEVATION; RE: 31/A533
- 32 30" PRESS DRINKRAIL; RE: 32/A534
- 33 28" TO 42" ADJUSTABLE GUARDRAIL; RE: 33/A534
- 34 42" SWING GUARDRAIL W/ REMOVABLE TOP; RE: 34/A534
- 35 CAMERA PLATFORM W/ CHAIN RAIL; RE: 35/A534
- 36 28" CAMERA PLATFORM GATE; RE: 36/A534
- 37 MEZZANINE PARTITION GUARD; RE: 37/A534
- 38 TWO INTERMITTENT 34" HANDRAILS BETWEEN VARYING STEP HEIGHTS; RE: 38/A534
- EX EXISTING RAIL



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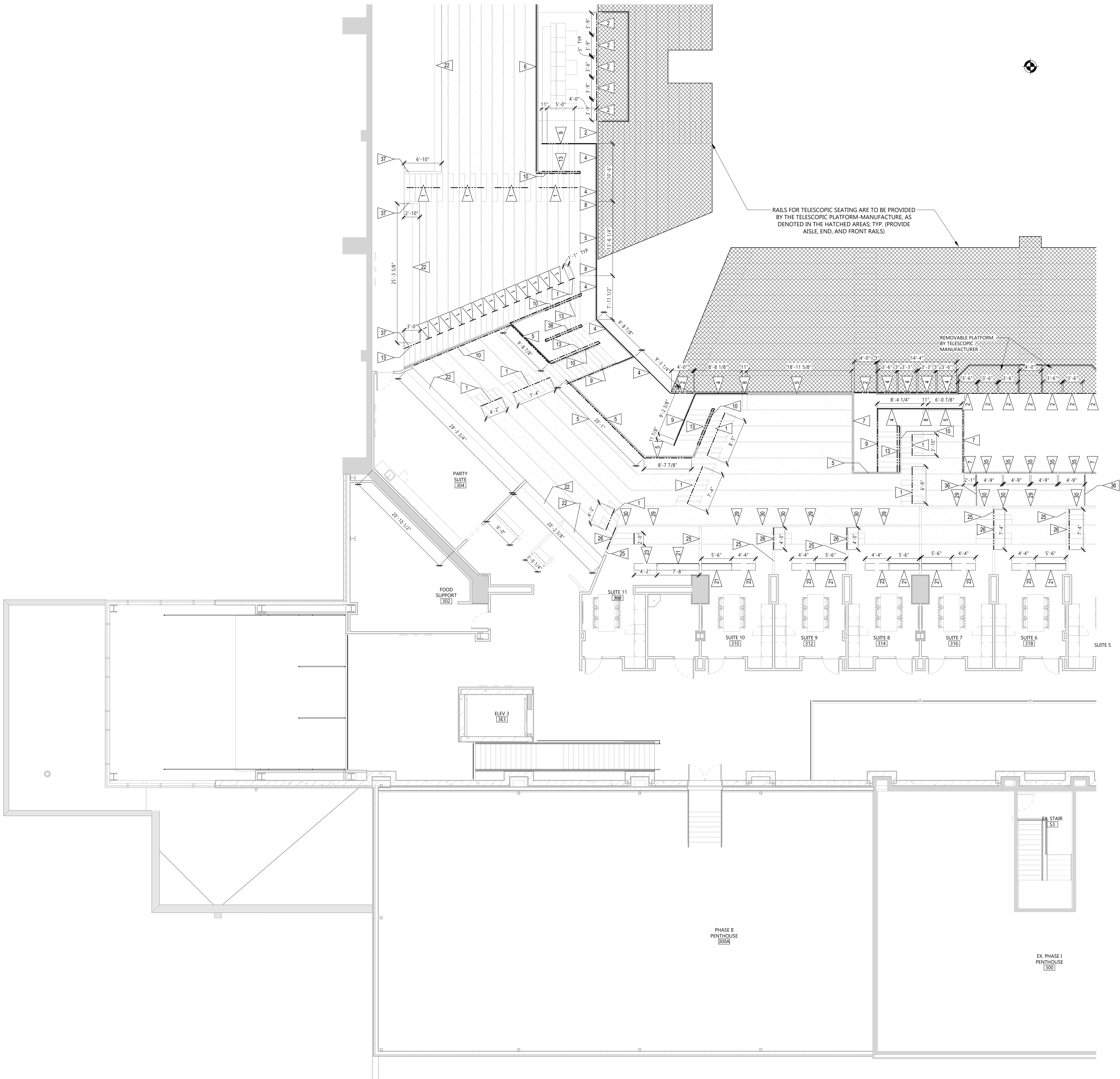
PROJECT NO: 20191170
DRAWN BY: Author
CHECKED BY: Checker

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DRAWING TITLE
RAILING PLAN - AREA B

A530B



FLOOR PLAN GENERAL RAILING NOTES	
1.	REFER TO 14/A531 FOR TYPICAL PRECAST AISLE TREAD DETAIL.
2.	REFER TO A531 THRU A533 FOR TYPICAL RAILING DETAILS.
3.	PAINT RAILINGS, TYP. UNO.
4.	REFER TO AREA PLANS FOR RAILING LENGTHS.
5.	VERIFY EXISTING CONDITIONS, LENGTHS, AND RAIL SPACING TO EQUAL OUT IN THE FIELD
1	34" MID AISLE BOWL HANDRAIL; RE: 1/A531
2	42" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 2/A531
3	28" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 3/A531 (DETAIL NOT IN USE)
4	42" FIXED GUARDRAIL; RE: 4/A531
5	28" FIXED GUARDRAIL; RE: 4/A531
6	42" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 6/A531
7	28" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 7/A531
8	42" FIXED TOP MOUNTED GUARDRAIL WITH HANDRAIL; RE: 8/A531
9	42" FIXED FACE MOUNTED GUARDRAIL WITH HANDRAIL; RE: 9/A531
10	42" FIXED GUARDRAIL WITH HANDRAIL, VOMITORY SIDE; RE: 10/A531
11	42" FIXED GUARDRAIL ELEVATION; RE: 11/A531
12	42" REMOVABLE GUARDRAIL ELEVATION; RE: 12/A531 (DETAIL NOT IN USE)
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21	42" PLATERAIL W/ KICKSTOP; RE: 21/A533
22	34" LOGE DRINKRAIL; RE: 22/A533
23	42" ACCESSIBLE REMOVABLE PLATERAIL; RE: 23/A533
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25	26" SUITE PARTITION; RE: 25/A533
26	26" SUITE PARTITION W/ HANDRAIL; RE: 26/A533
27	SUITE PARTITION ELEVATION; RE: 27/A533
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29	26" SUITE GUARD W/ DRINK RAIL; RE: 29/A533
30	42" SUITE GUARD AT AISLE; RE: 30/A533 EXTENTS VARIES, MATCH AISLE DIMENSION
31	42 SUITE GUARD AT AISLE ELEVATION; RE: 31/A533
32	30" PRESS DRINKRAIL; RE: 32/A534
33	28" TO 42" ADJUSTABLE GUARDRAIL; RE: 33/A534
34	42" SWING GUARDRAIL W/ REMOVABLE TOP; RE: 34/A534
35	CAMERA PLATFORM W/ CHAIN RAIL; RE: 35/A534
36	28" CAMERA PLATFORM GATE; RE: 36/A534
37	MEZZANINE PARTITION GUARD; RE: 37/A534
38	TWO INTERMITTENT 34" HANDRAILS BETWEEN VARYING STEP HEIGHTS; RE: 38/A534
EX	EXISTING RAIL

Architecture

Interior Design

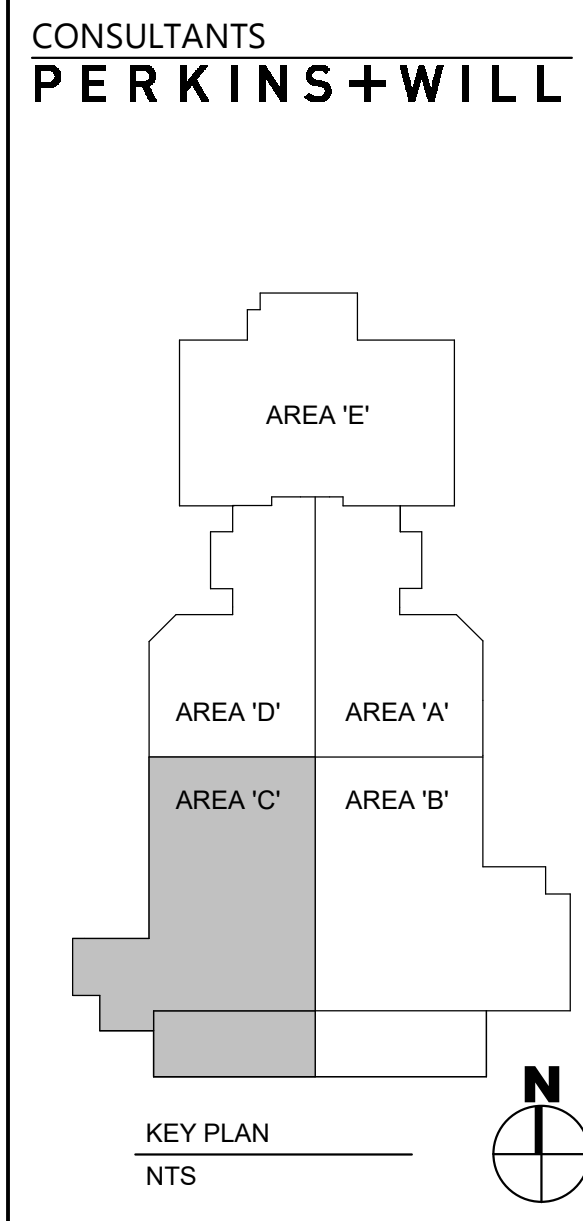
Engineering

Industrial

TELE 605.444.1600 FAX 605.444.1601

101 N. Phillips Ave., Ste. 300, Sioux Falls, SD 57104

www.eapc.net



CLIENT

SOUTH DAKOTA STATE UNIVERSITY

PROJECT DESCRIPTION

FB&T ARENA AND SJM ADDITIONS AND RENOVATIONS

(OSE# R0319-23X/FBT)
(SDSU# WO#22-103751)

CITY BROOKINGS

STATE SOUTH DAKOTA

ISSUE DATES

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MARK	DESCRIPTION	DATE

PROJECT NO: 20191170

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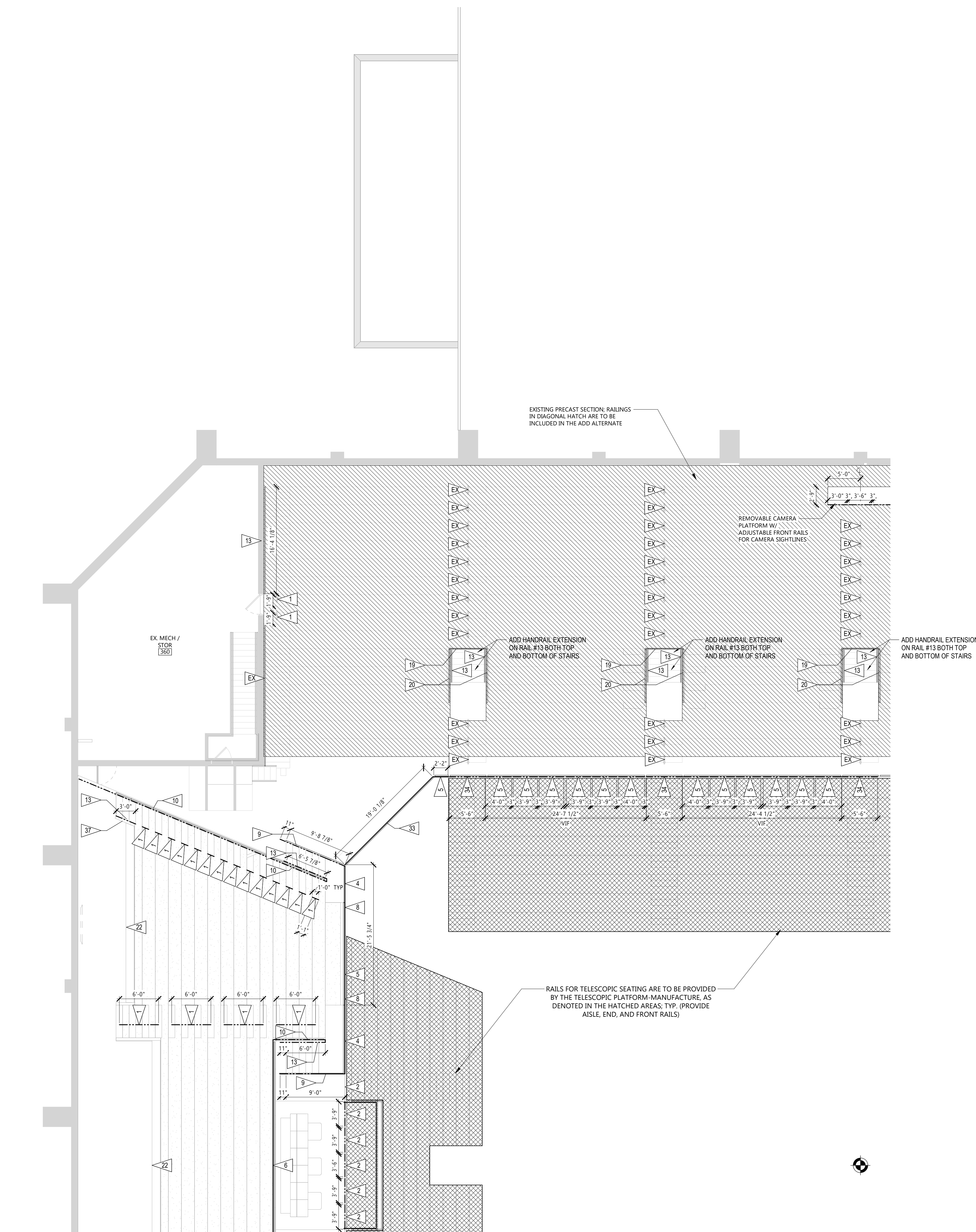
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RAILING PLAN - AREA C

A530C

1. REFER TO 14/A531 FOR TYPICAL PRECAST AISLE TREAD DETAIL.
2. REFER TO A531 THRU A533 FOR TYPICAL RAILING DETAILS.
3. PAINT RAILINGS, TYP. UNO.
4. REFER TO AREA PLANS FOR RAILING LENGTHS.
5. VERIFY EXISTING CONDITIONS, LENGTHS, AND RAIL SPACING TO EQUAL OUT IN THE FIELD

- | | |
|----|--|
| 1 | 34" MID AISLE BOWL HANDRAIL; RE: 1/A531 |
| 2 | 42" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 2/A531 |
| 3 | 28" REMOVABLE GUARDRAIL BETWEEN PRECAST AND TELESCOPIC SEATING; RE: 3/A531 (DETAIL NOT IN USE) |
| 4 | 42" FIXED GUARDRAIL; RE: 4/A531 |
| 5 | 28" FIXED GUARDRAIL; RE: 4/A531 |
| 6 | 42" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 6/A531 |
| 7 | 28" FIXED GUARDRAIL AT TOP OF VOMITORY; RE: 7/A531 |
| 8 | 42" FIXED TOP MOUNTED GUARDRAIL WITH HANDRAIL; RE: 8/A531 |
| 9 | 42" FIXED FACE MOUNTED GUARDRAIL WITH HANDRAIL; RE: 8/A531 |
| 10 | 42" FIXED GUARDRAIL WITH HANDRAIL, VOMITORY SIDE; RE: 10/A531 |
| 11 | 42" FIXED GUARDRAIL ELEVATION; RE: 11/A531 |
| 12 | 42" REMOVABLE GUARDRAIL ELEVATION; RE: 12/A531 (DETAIL NOT IN USE) |
| 13 | HANDRAIL ATTACHMENT DETAILS; RE: 13/A531 |
| 14 | BOWL AISLE TREAD DETAIL; RE: 14/A531 |
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| 20 | DEMOLITION OF HANDRAIL AND REPLACEMENT WITH CABLE GUARDRAIL AND PIPE HANDRAIL; RE 20/A532 |
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| 25 | 26" SUITE PARTITION; RE: 25/A533 |
| 26 | 26" SUITE PARTITION W/ HANDRAIL; RE: 26/A533 |
| 27 | SUITE PARTITION ELEVATION; RE: 27/A533 |
| 28 | 26" SUITE GUARD; RE: 28/A533 (DETAIL NOT IN USE) |
| 29 | 26" SUITE GUARD W/ DRINK RAIL; RE: 29/A533 |
| 30 | 42" SUITE GUARD AT AISLE; RE: 30/A533
EXTENTS VARIES, MATCH AISLE DIMENSION |
| 31 | 42" SUITE GUARD AT AISLE ELEVATION; RE: 31/A533 |
| 32 | 30" PRESS DRINKRAIL; RE: 32/A534 |
| 33 | 28" TO 42" ADJUSTABLE GUARDRAIL; RE: 33/A534 |
| 34 | 42" SWING GUARDRAIL W/ REMOVABLE TOP; RE: 34/A534 |
| 35 | CAMERA PLATFORM W/ CHAIN RAIL; RE: 35/A534 |
| 36 | 28" CAMERA PLATFORM GATE; RE: 36/A534 |
| 37 | MEZZANINE PARTITION GATE; RE: 37/A534 |
| 38 | TWO INTERMITTENT 34" HANDRAILS BETWEEN VARYING STEP HEIGHTS; RE: 38/A534 |
| EX | EXISTING RAIL |

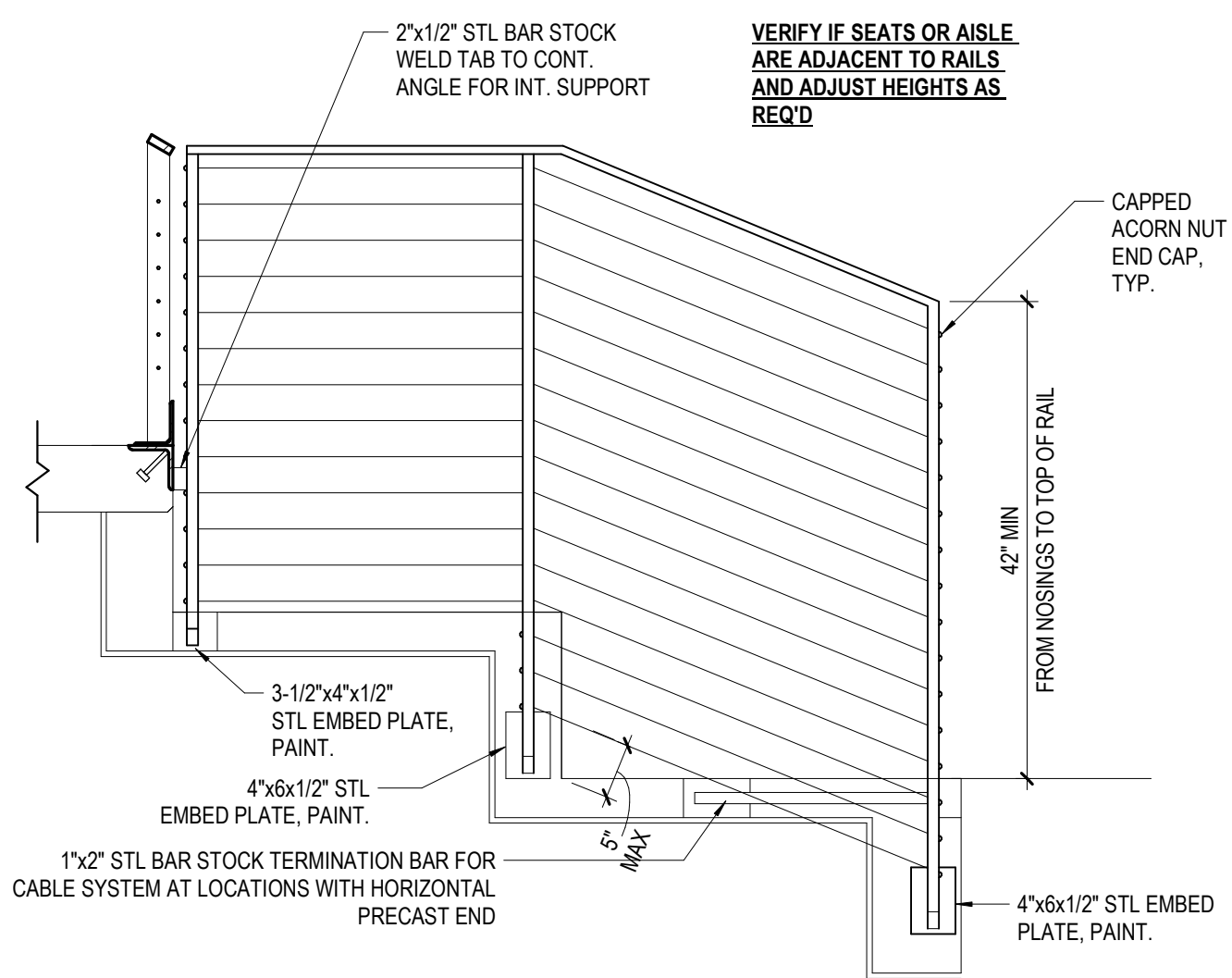
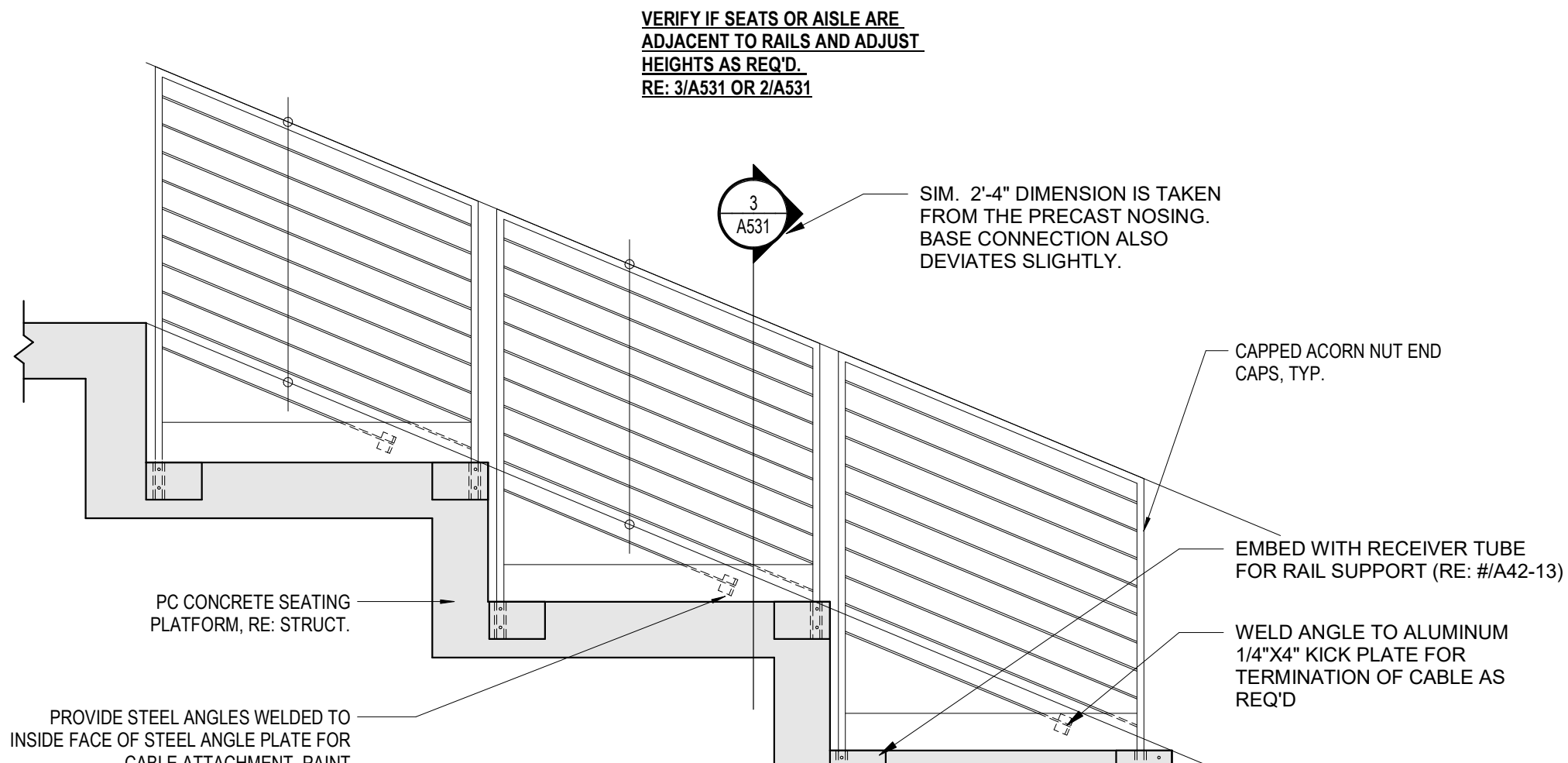
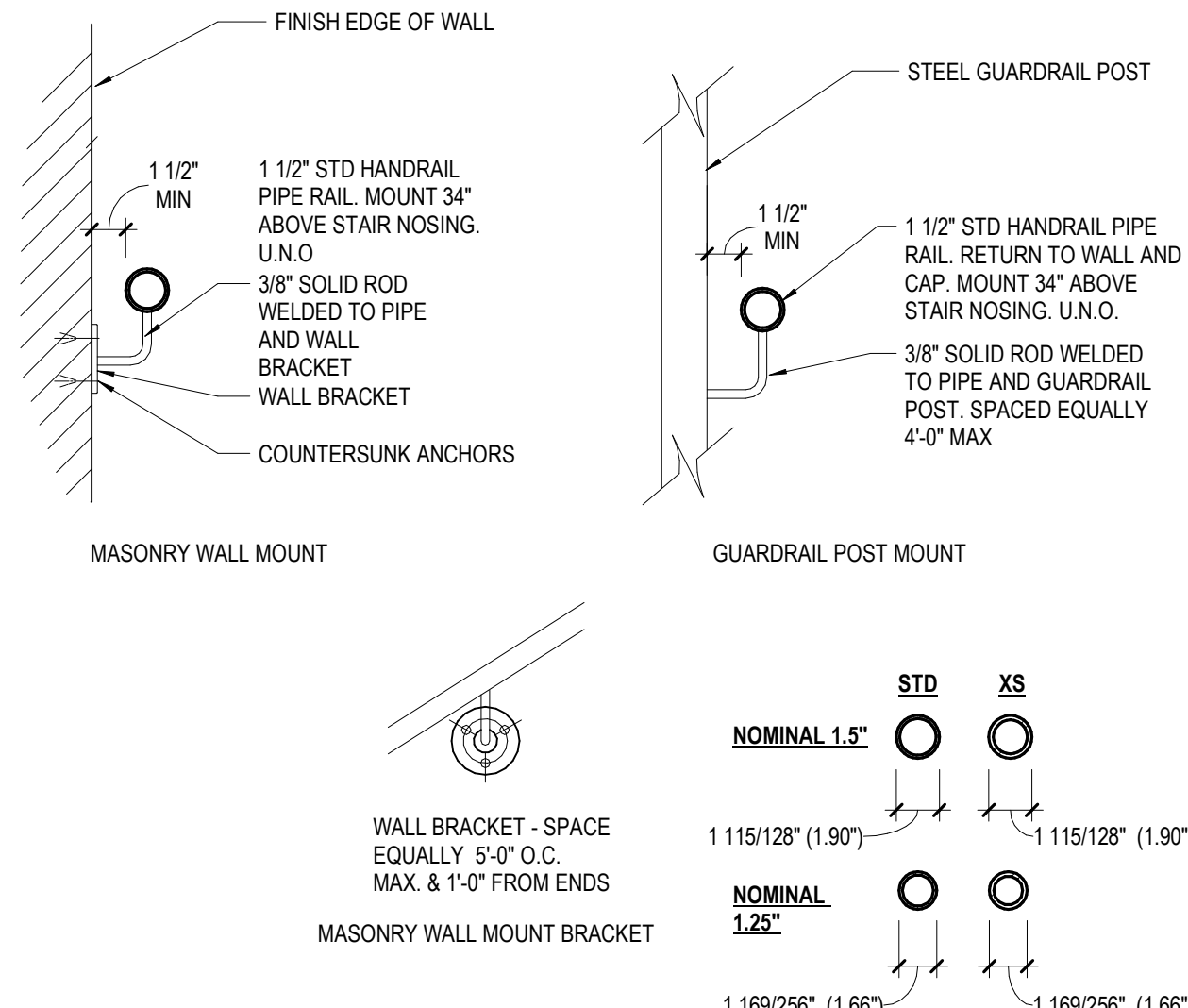
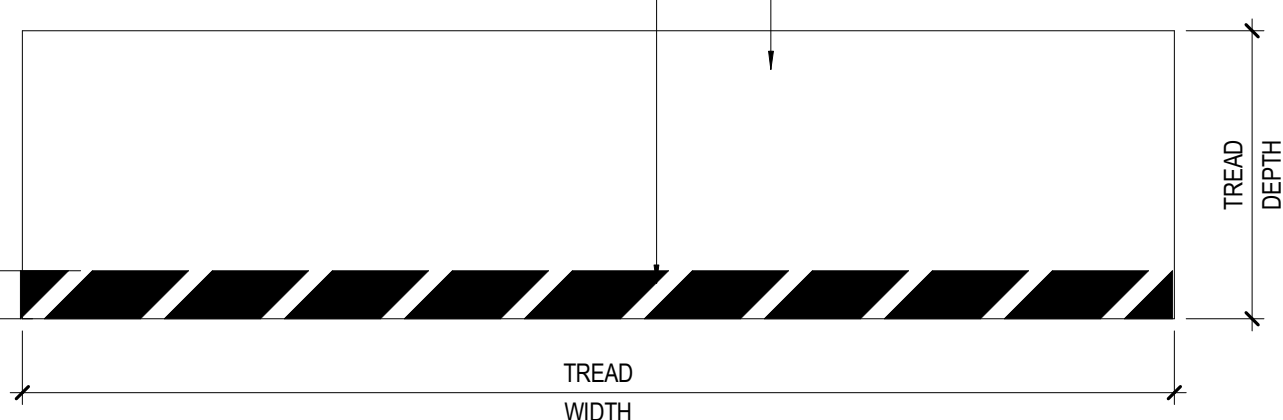


1 RAILING PLAN - AREA D
A530D 1/8" = 1'-0"

1. SURFACE PREP - REFER TO THE SPECIFICATIONS AND MANUFACTURER
RECOMMENDATIONS FOR SURFACE PREPARATION
2. PRIMER BASE COAT - TNESEC SERIES 66HS EPOXYLINE APPLIED AT 4.0-6.0 MILS DFT
3. INTERMEDIATE - TNESEC SERIES 66HS EPOXYLINE APPLIED AT 4.0-6.0 MILS DFT
4. HAZARD STRIPING (WHERE APPLICABLE) TNESEC SERIES 66HS EPOXYLINE
5. FINISH COAT - TNESEC SERIES 294 CLEAR CRU APPLIED AT 2.0-3.0 MILS DFT

2" SAFETY STRIPE AT NOSE OF EACH AISLE TREAD
(REQ. AT LOCATIONS WHERE RISER TO RISER DIM.
DOES NOT VARY MORE THAN 3/16")
COLOR : SOLID BLACK

2" HAZARD STRIPE AT NOSE OF EACH AISLE TREAD
REQUIRED WHERE RISER TO RISER DIM. EXCEEDS
3/16"
COLOR : BLACK/YELLOW



14 PLAN @ BOWL AISLE TREAD

A531 1 1/2" = 1'-0"

13 DETAILS @ HANDRAIL & ATTACHMENT

A531 1 1/2" = 1'-0"

12 ELEVATION-GUARD-REMOVEABLE-PORTAL

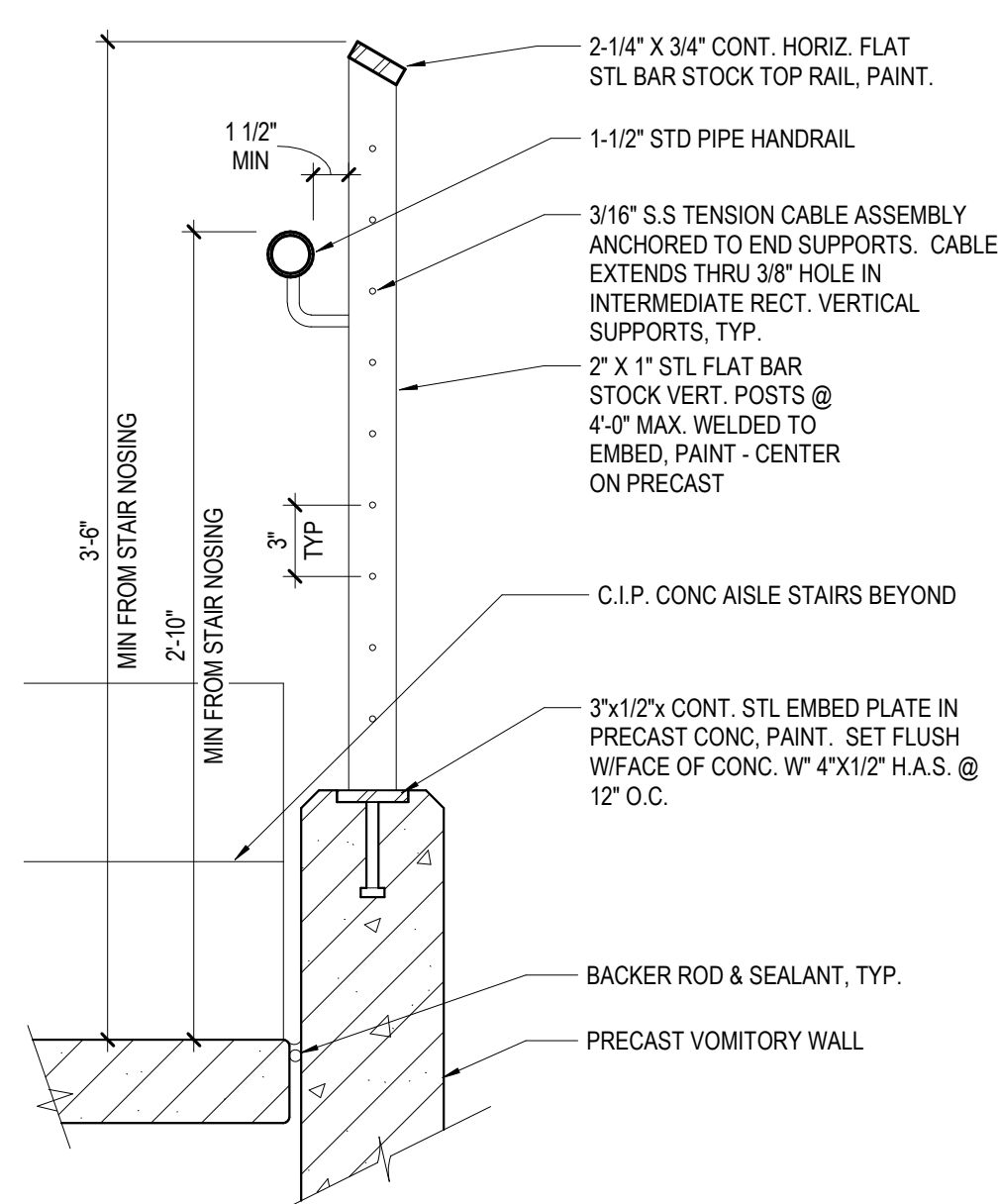
A531 3/4" = 1'-0"
DETAIL NOT IN USE

11 ELEVATION-GUARD-FIXED-PORTAL

A531 3/4" = 1'-0"

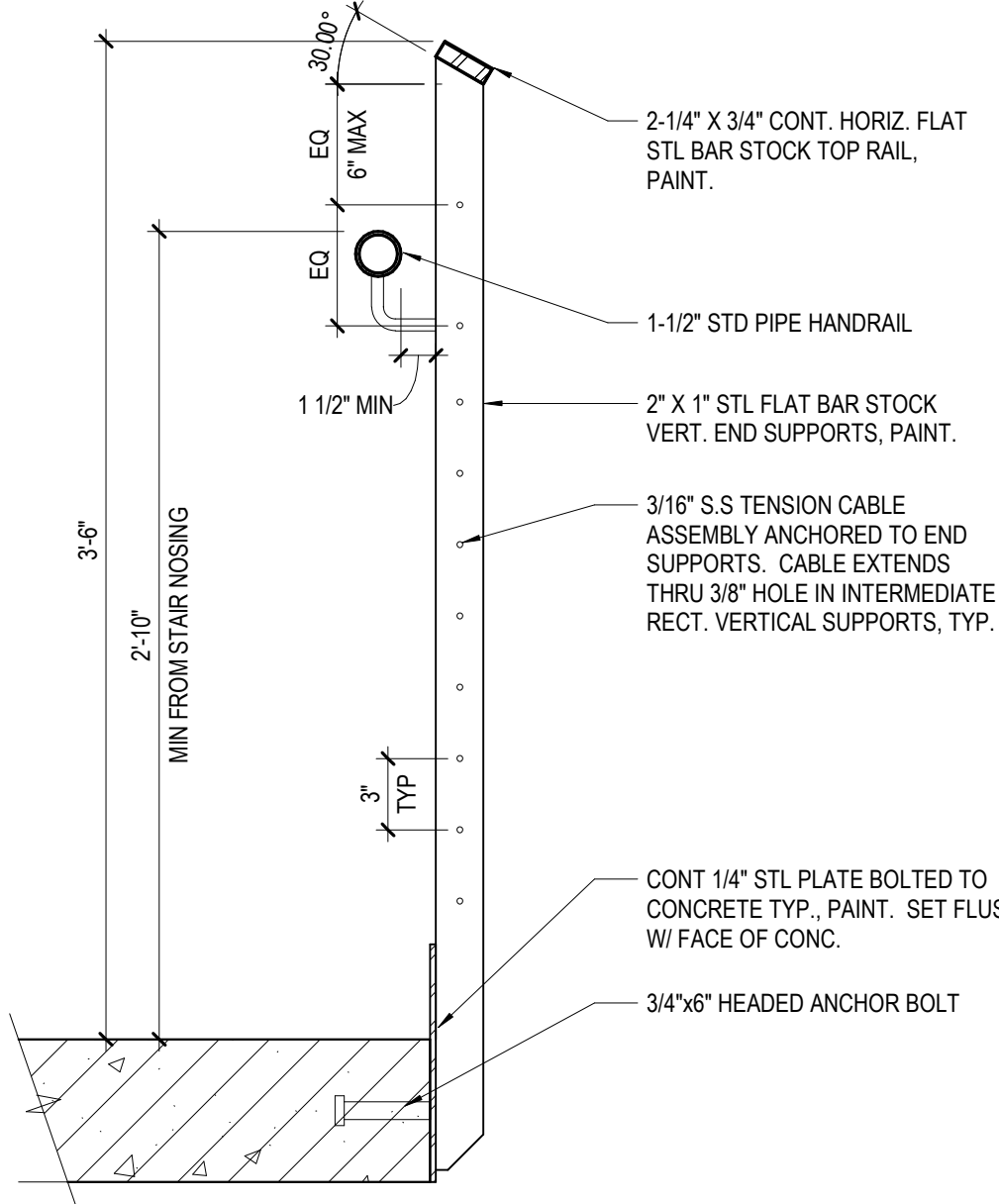
10 42" GUARD-FIXED-VOM SIDE

A531 1 1/2" = 1'-0"



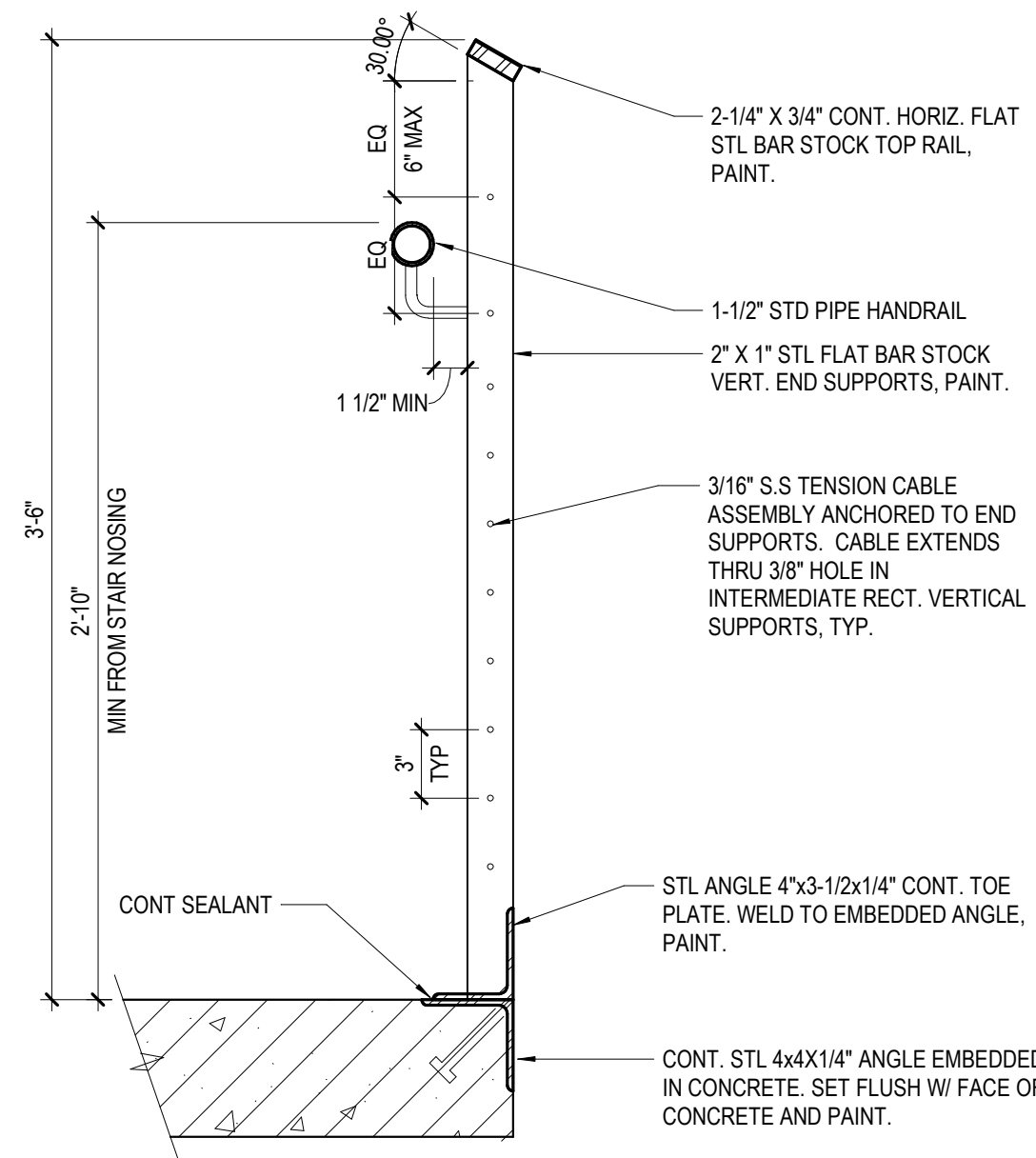
9 42" GUARD-FACE MNT FIXED CABLE-W/ HANDRAIL

A531 1 1/2" = 1'-0"



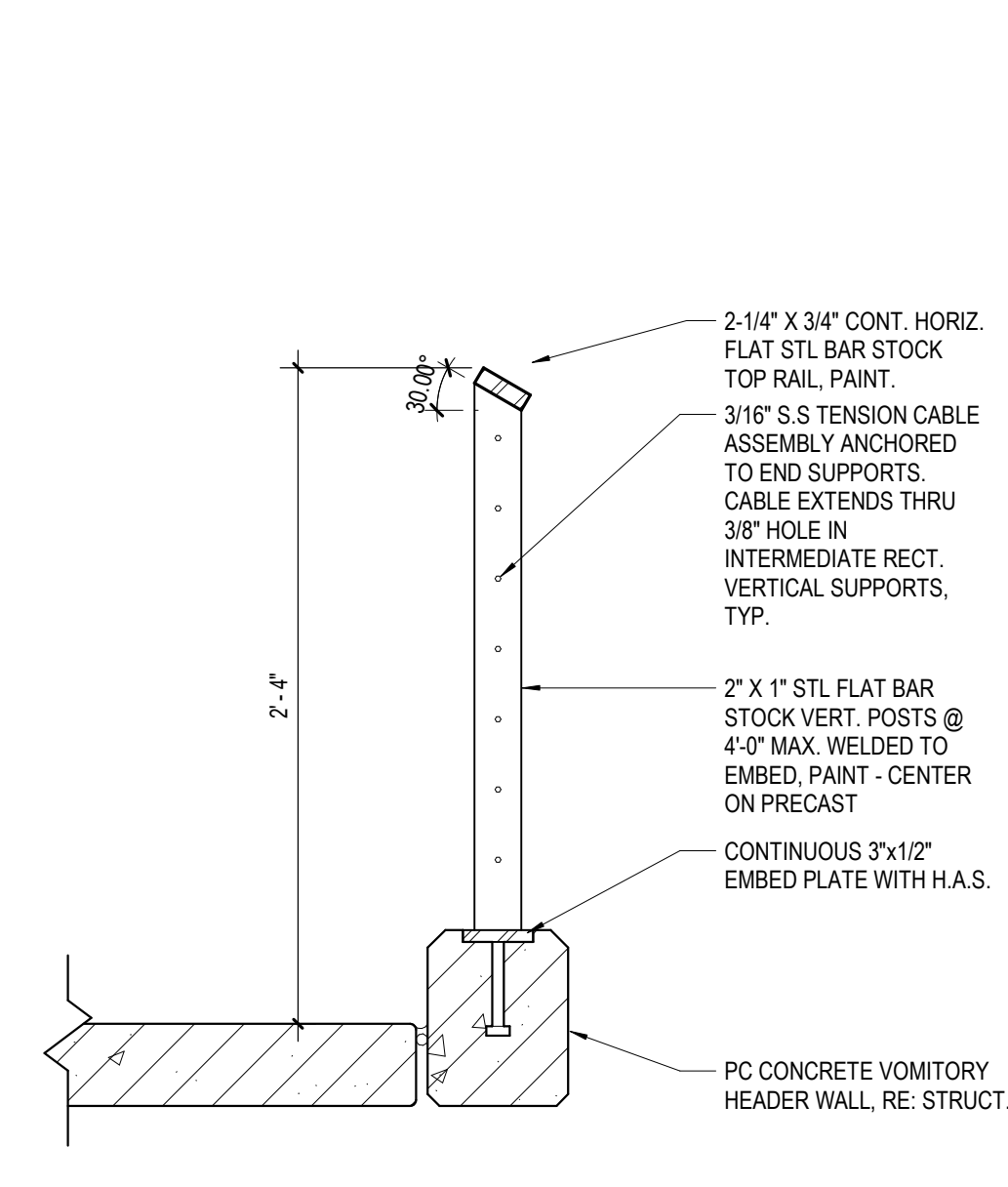
8 42" GUARD- TOP MNT FIXED CABLE-W/ HANDRAIL

A531 1 1/2" = 1'-0"



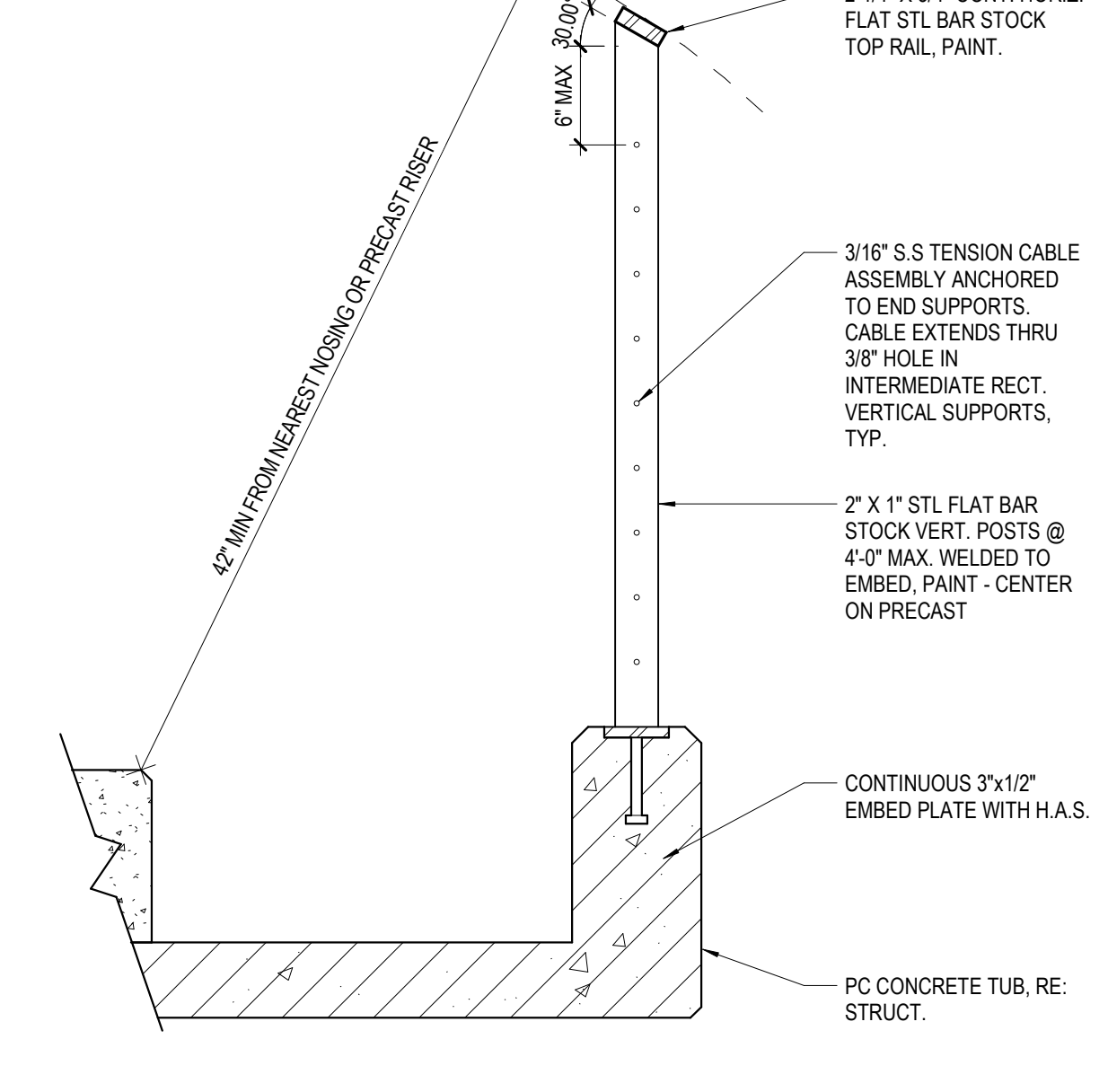
7 28" GUARD - FIXED - TOP OF VOM TYPE 2

A531 1 1/2" = 1'-0"



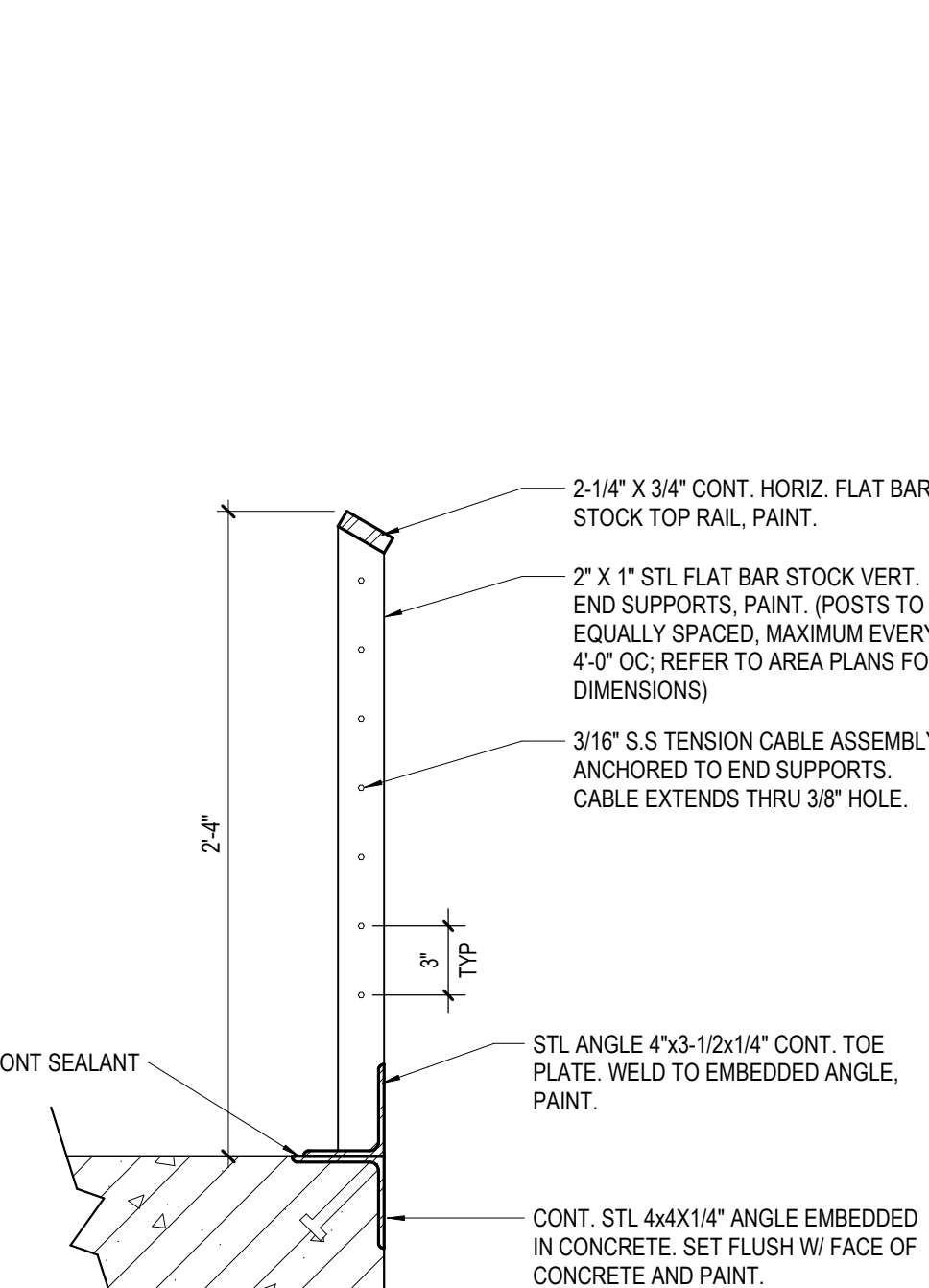
6 42" GUARD - FIXED - TOP OF VOM TYPE 1

A531 1 1/2" = 1'-0"



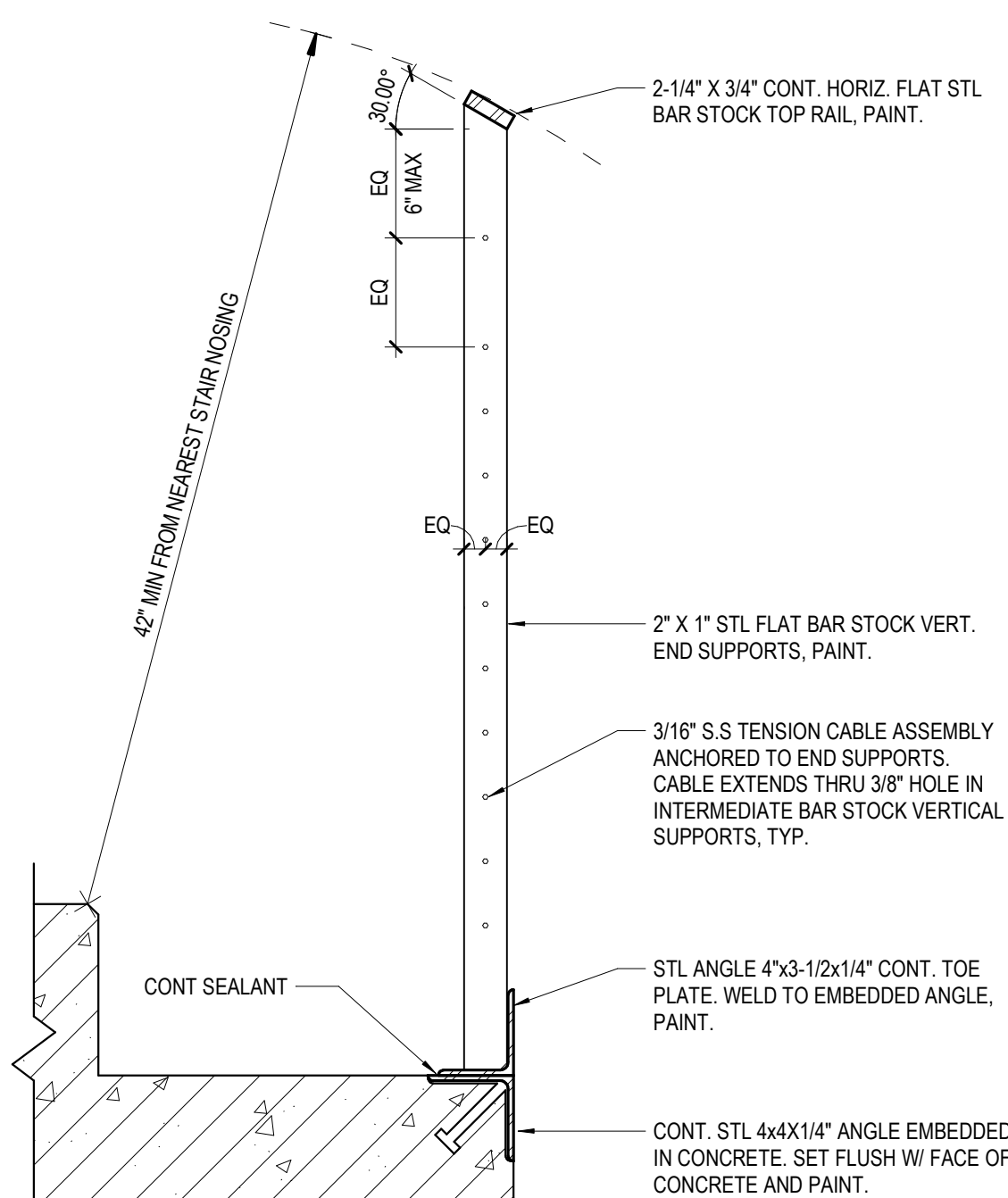
5 28" GUARD-FIXED-LOWER BOWL

A531 1 1/2" = 1'-0"

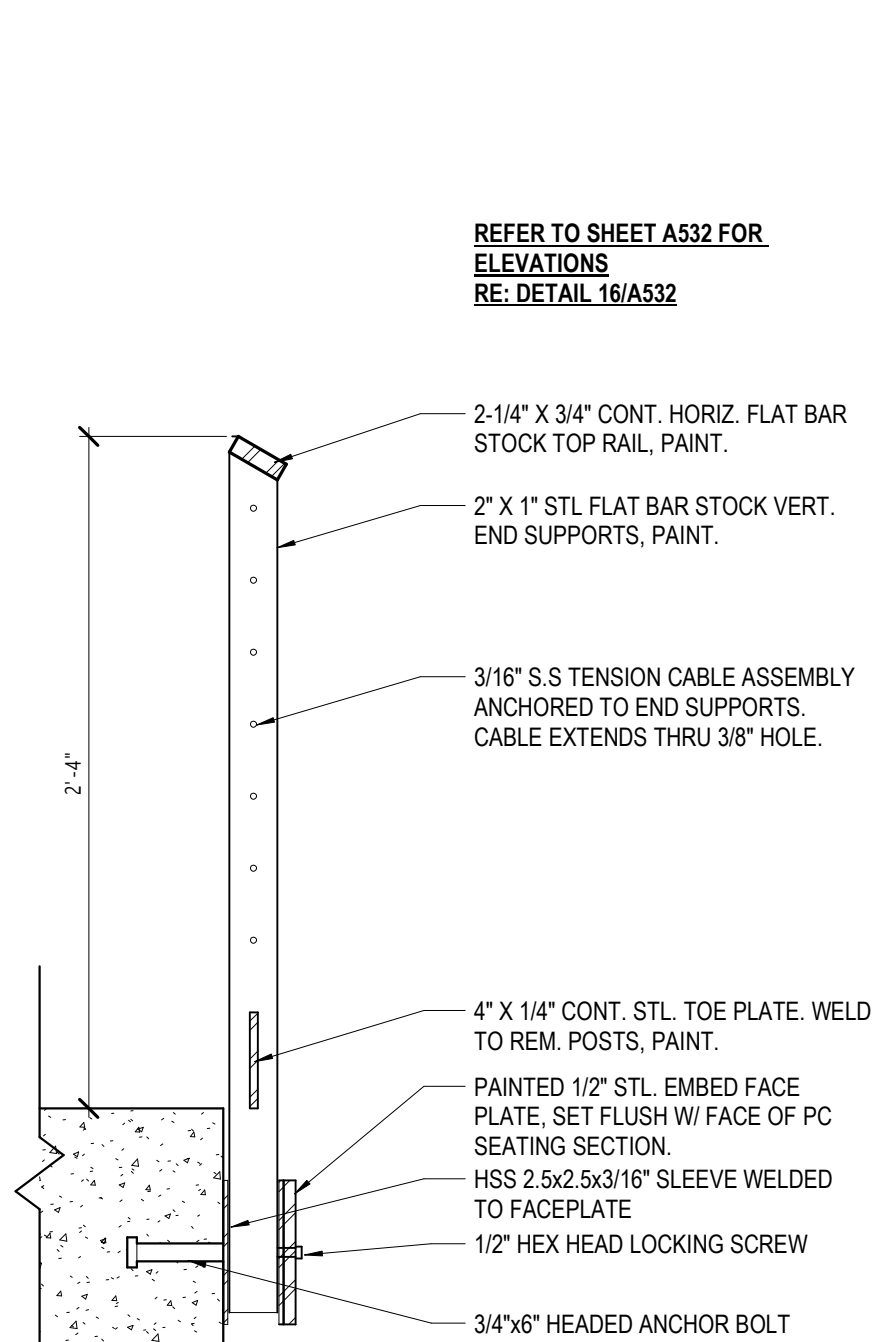


4 42" GUARD-FIXED-CABLE

A531 1 1/2" = 1'-0"

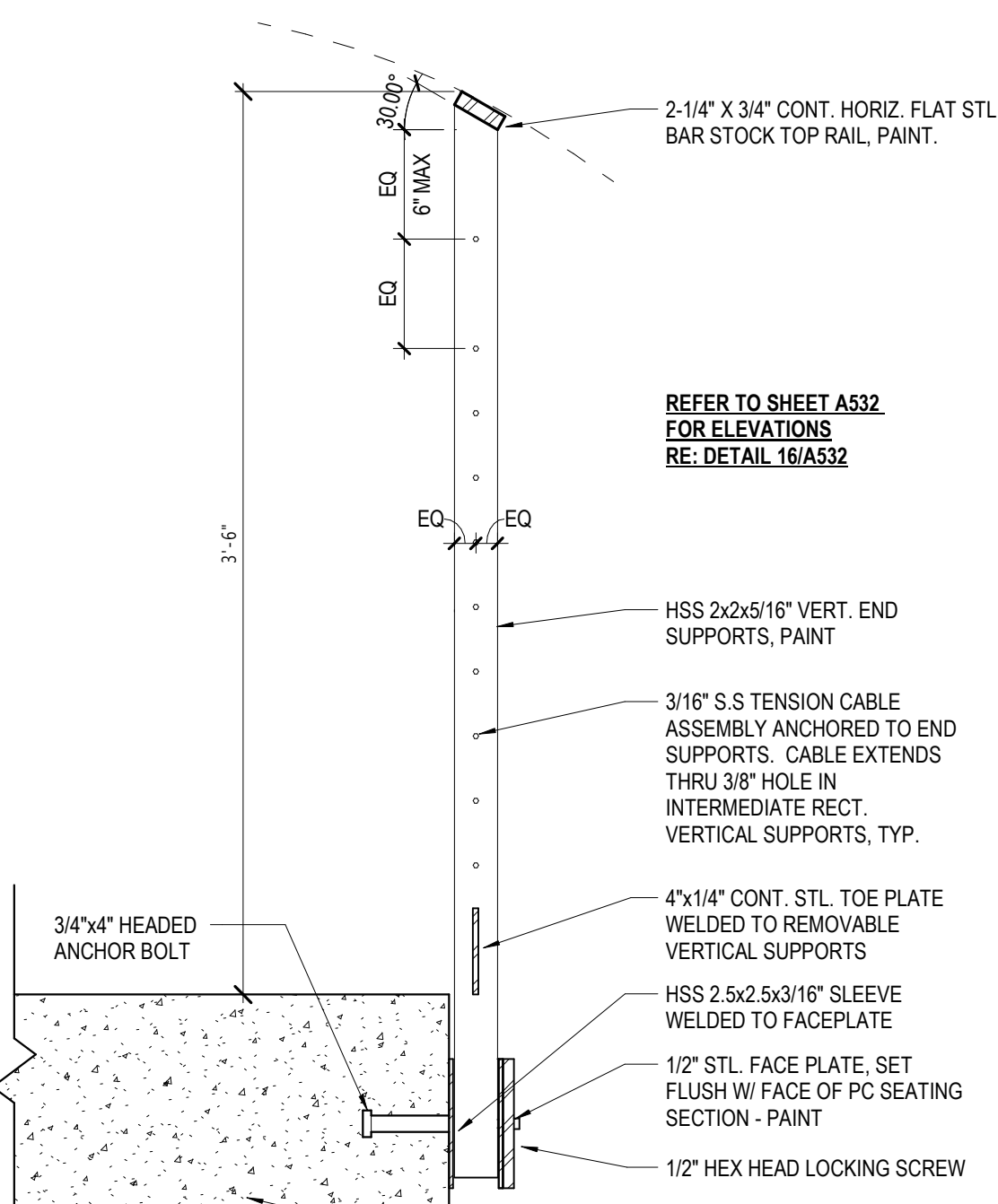


3 28" GUARD-REMOVEABLE GUARD

A531 1 1/2" = 1'-0"
DETAIL NOT IN USE

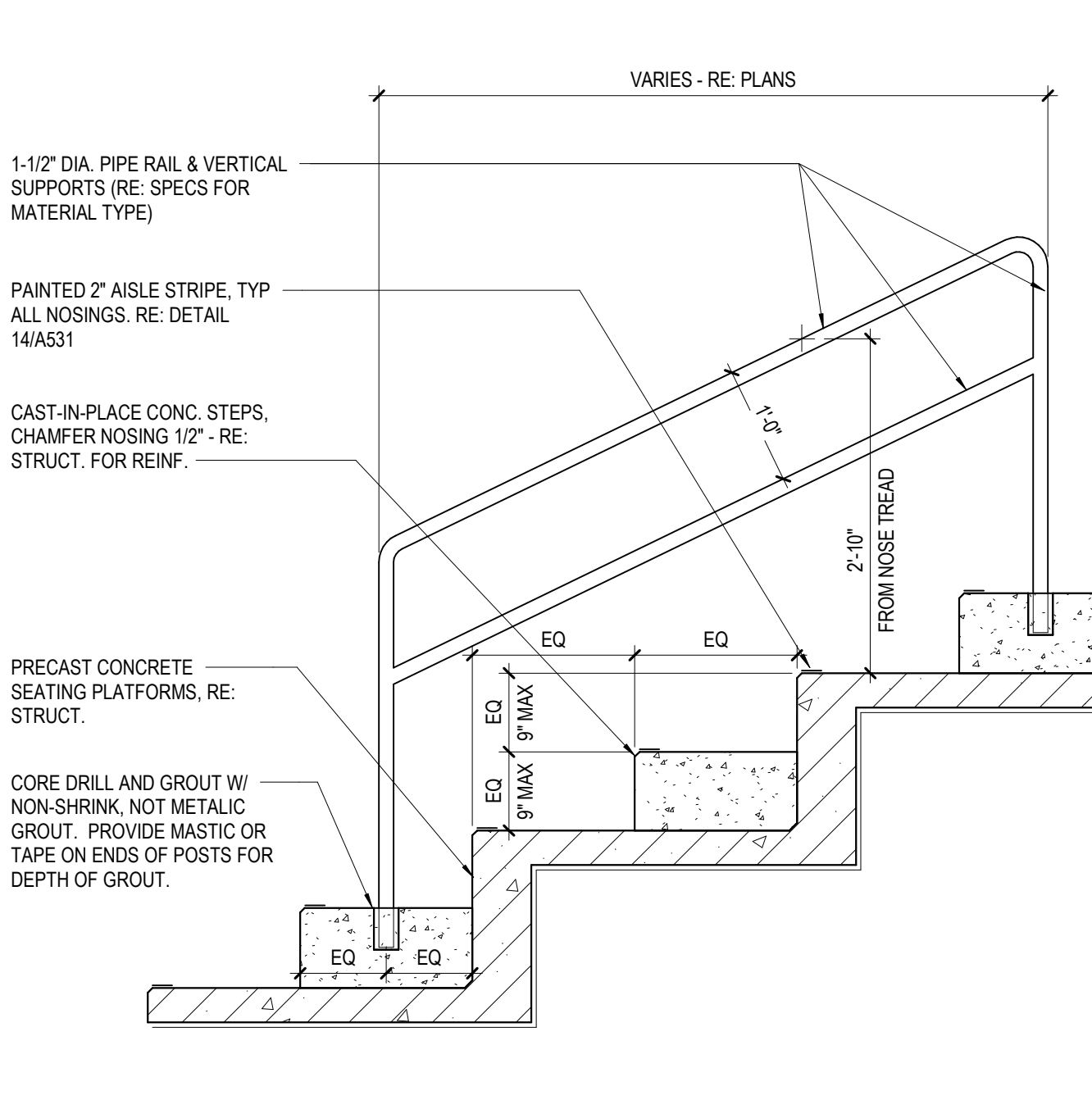
2 42" GUARD-REMOVABLE GUARD

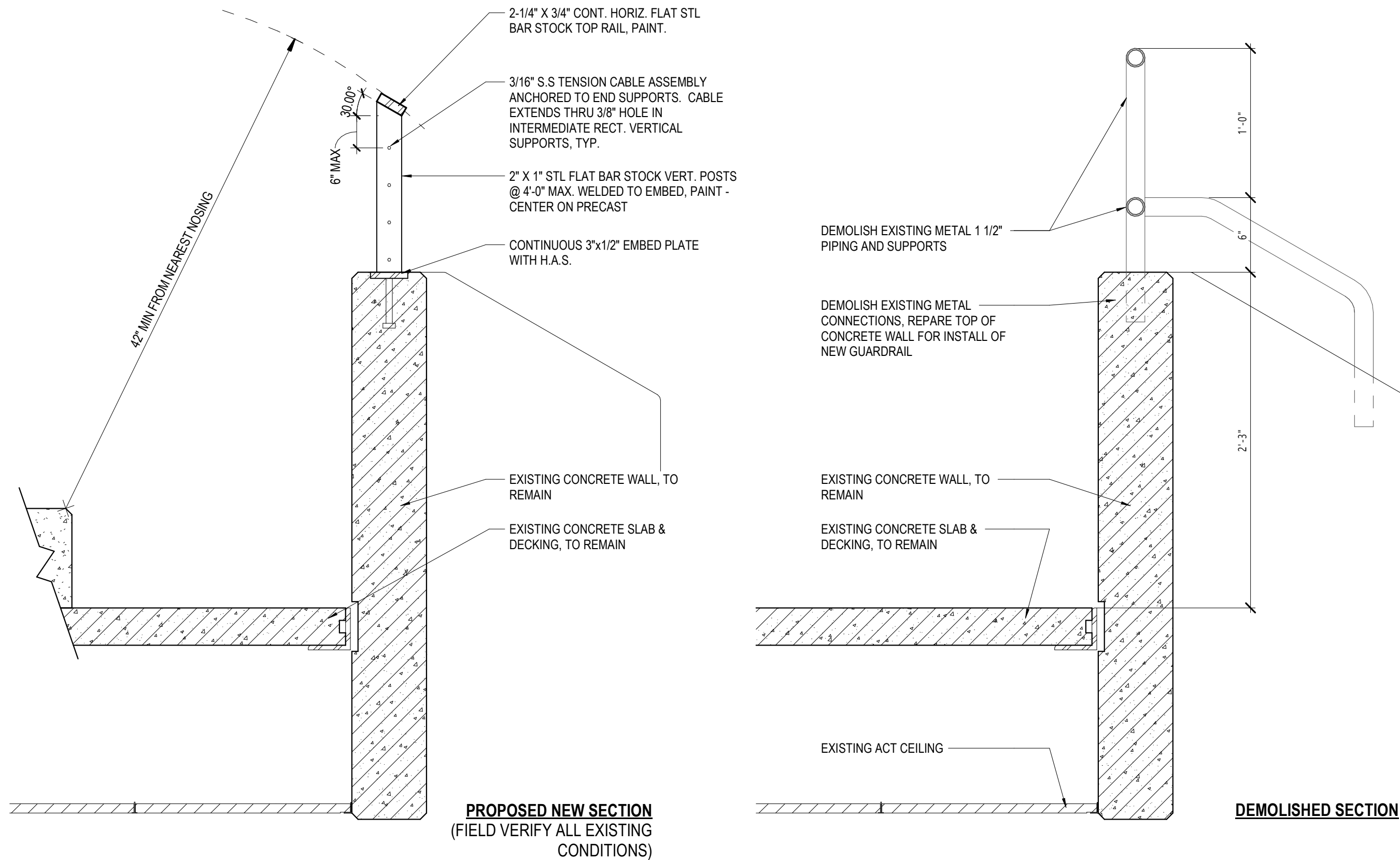
A531 1 1/2" = 1'-0"



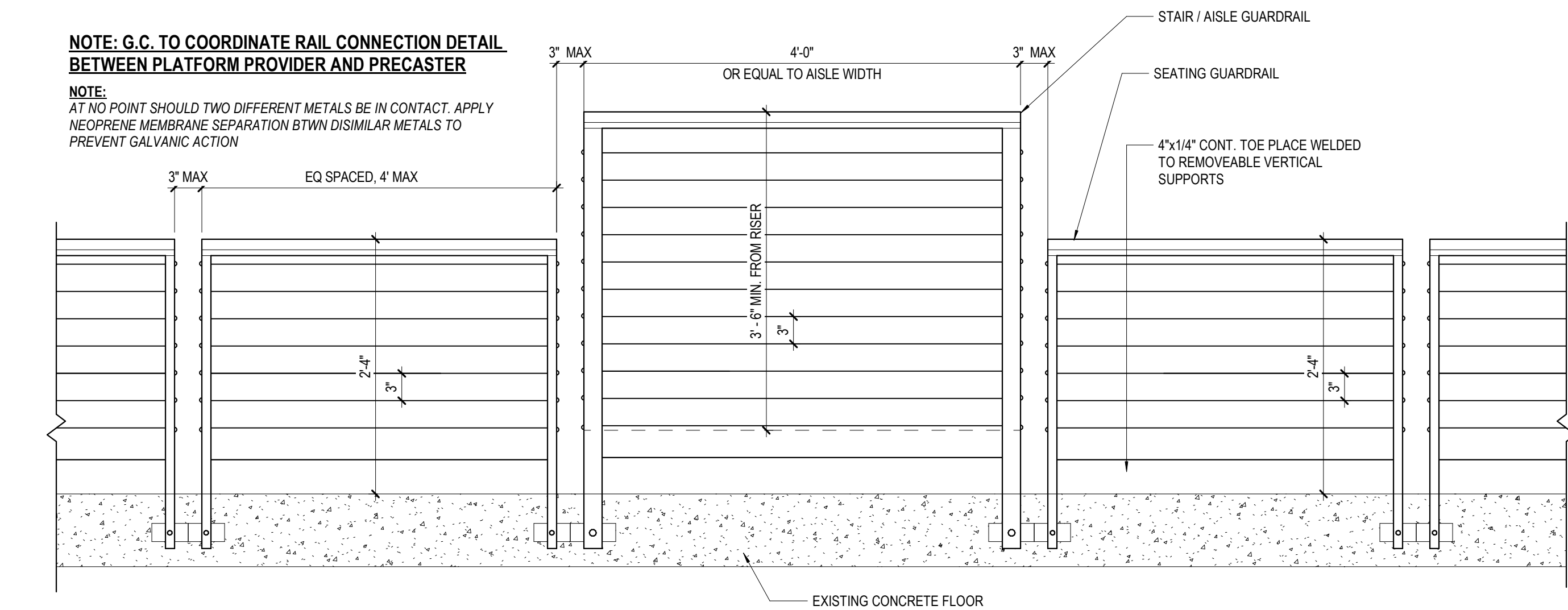
1 ELEVATION-RAIL-BOWL/AISLE

A531 3/4" = 1'-0"

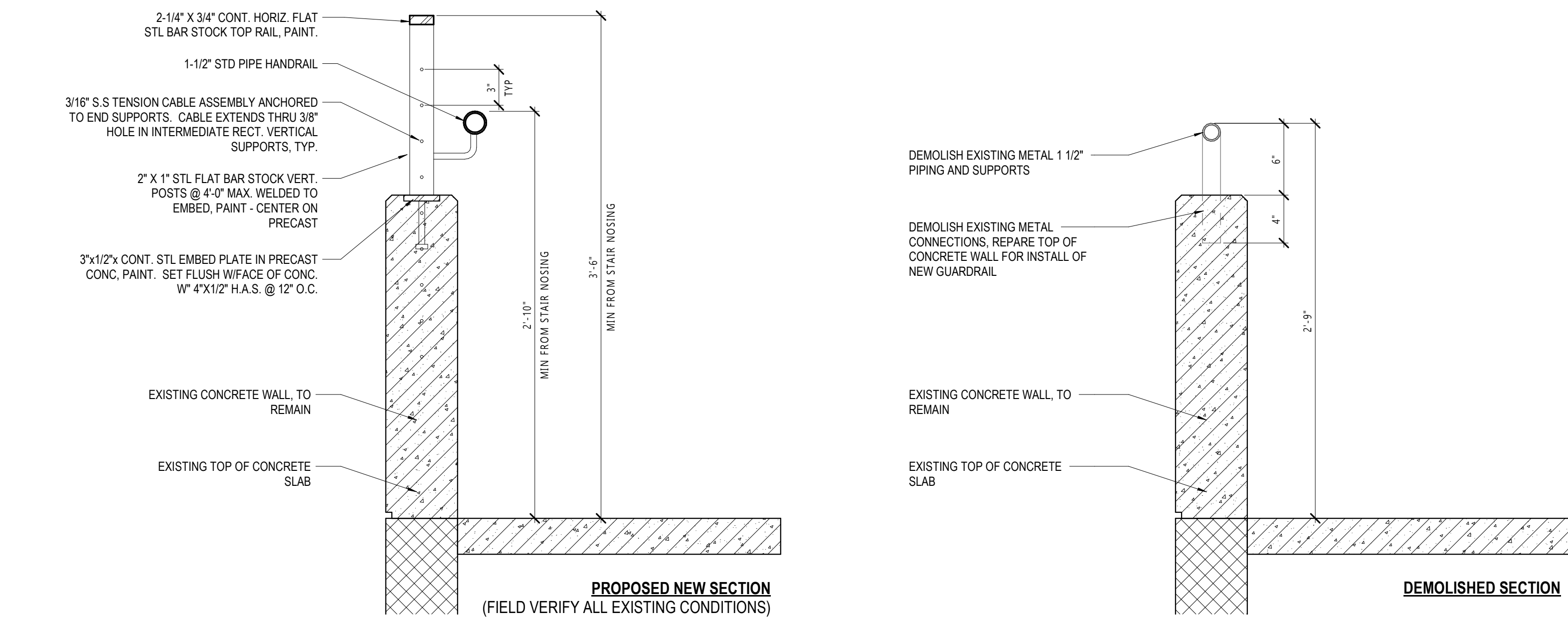




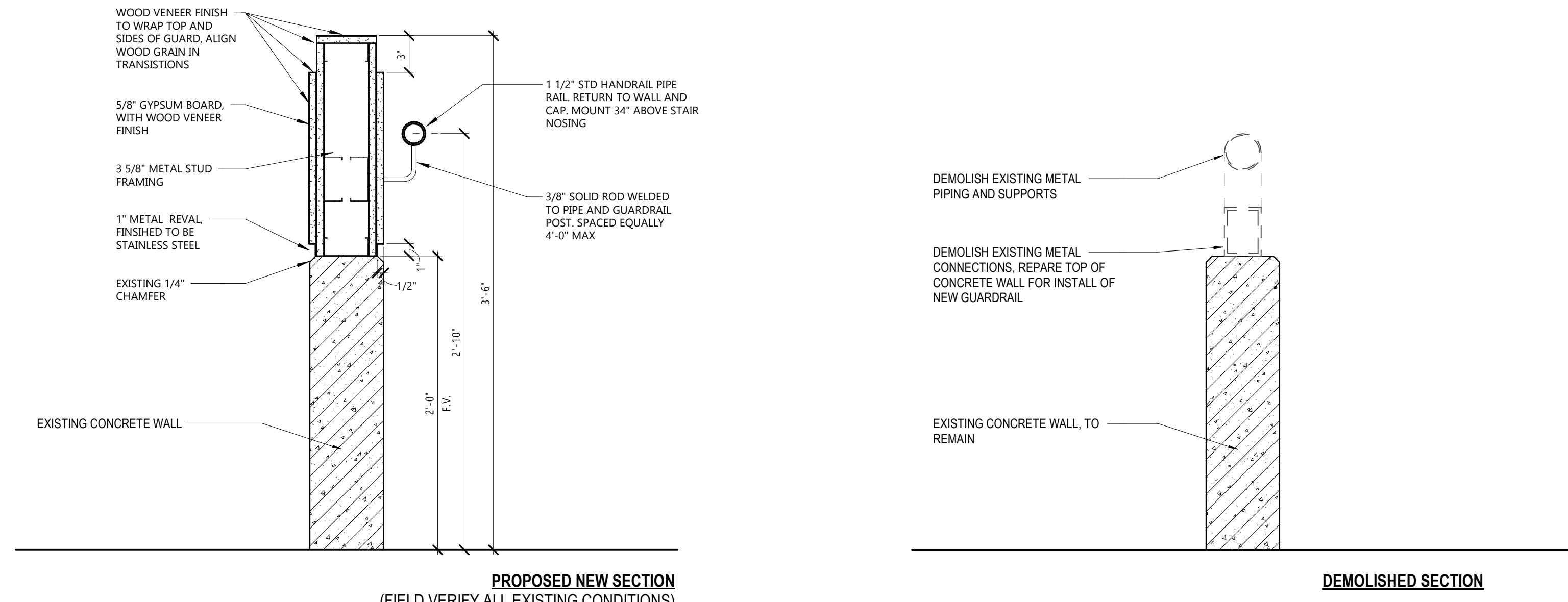
19
A532
EXISTING VOMITORY TOP RAIL DEMO & NEW SECTIONS
1 1/2" = 1'-0"



16
A532
ELEVATION-GUARD-REMOVABLE-FRONT
1" = 1'-0"



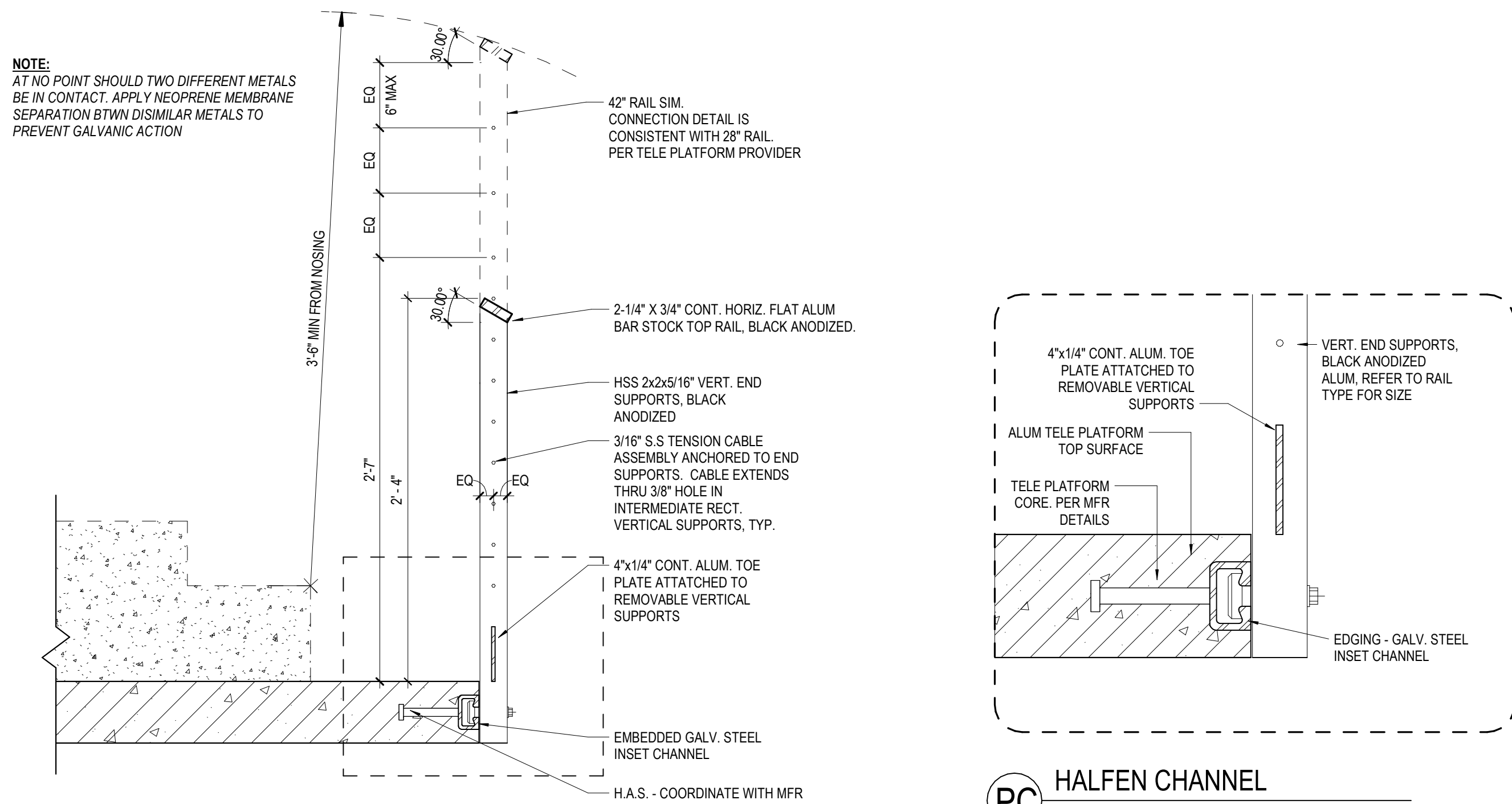
20
A532
EXISTING VOMITORY RAIL DEMO & NEW SECTIONS
1 1/2" = 1'-0"



18
A532
NEW OPEN STAIR GUARD AND RAIL
1 1/2" = 1'-0"

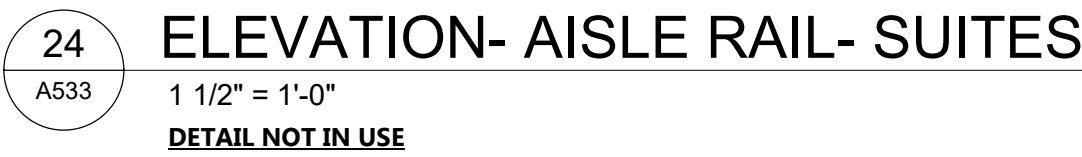
NOTE:
G.C. TO COORDINATE RAIL CONNECTION DETAIL BETWEEN TELE
PLATFORM PROVIDER AND PRECASTER

FINAL CONNECTION PER TELE PLATFORM RAIL PROVIDER

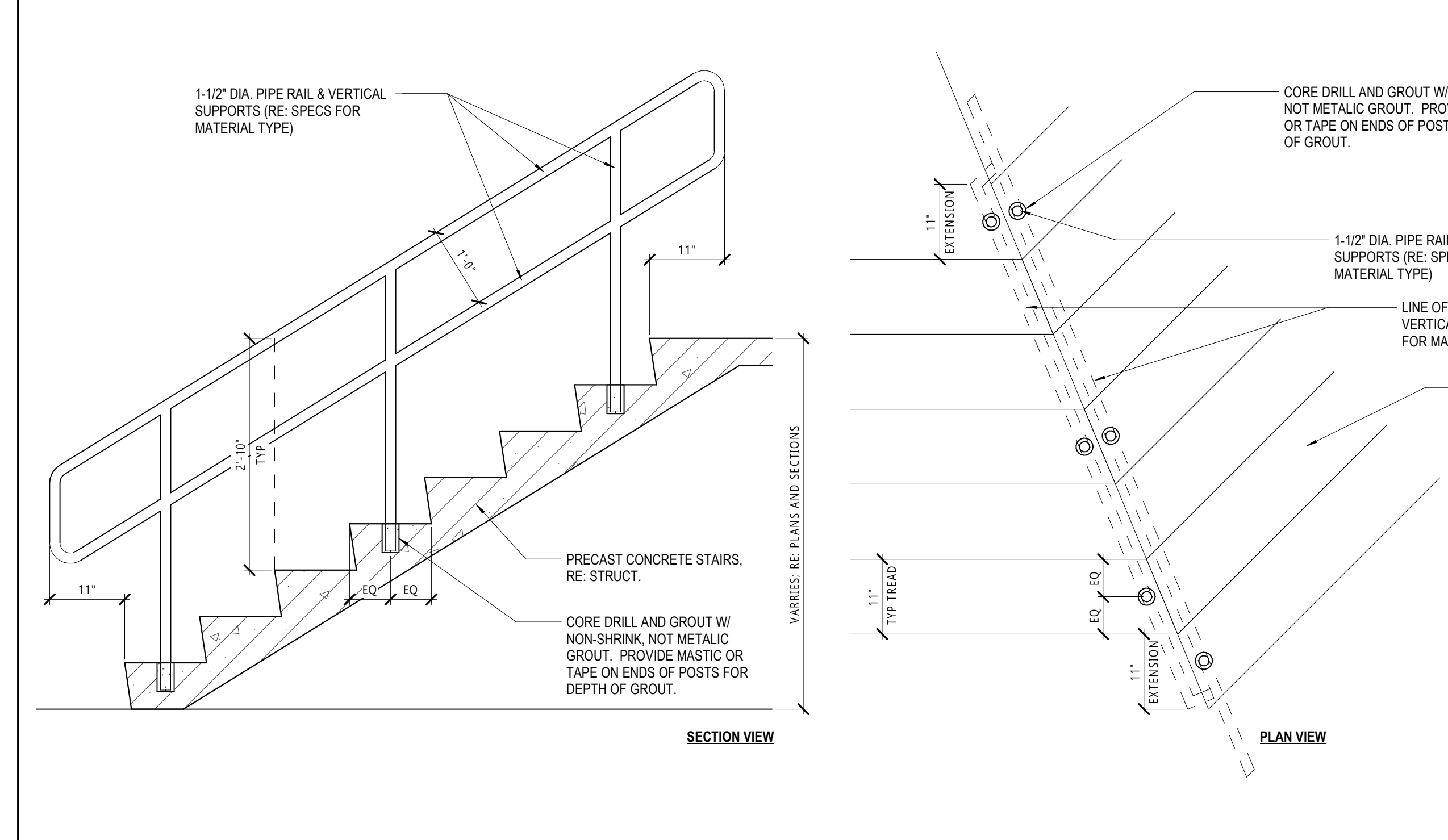


15
A532
28" / 42" GUARD- REMOVABLE - PRECAST AND TELE -
HALFEN CHANNEL SYSTEM
1 1/2" = 1'-0"
DETAIL NOT IN USE

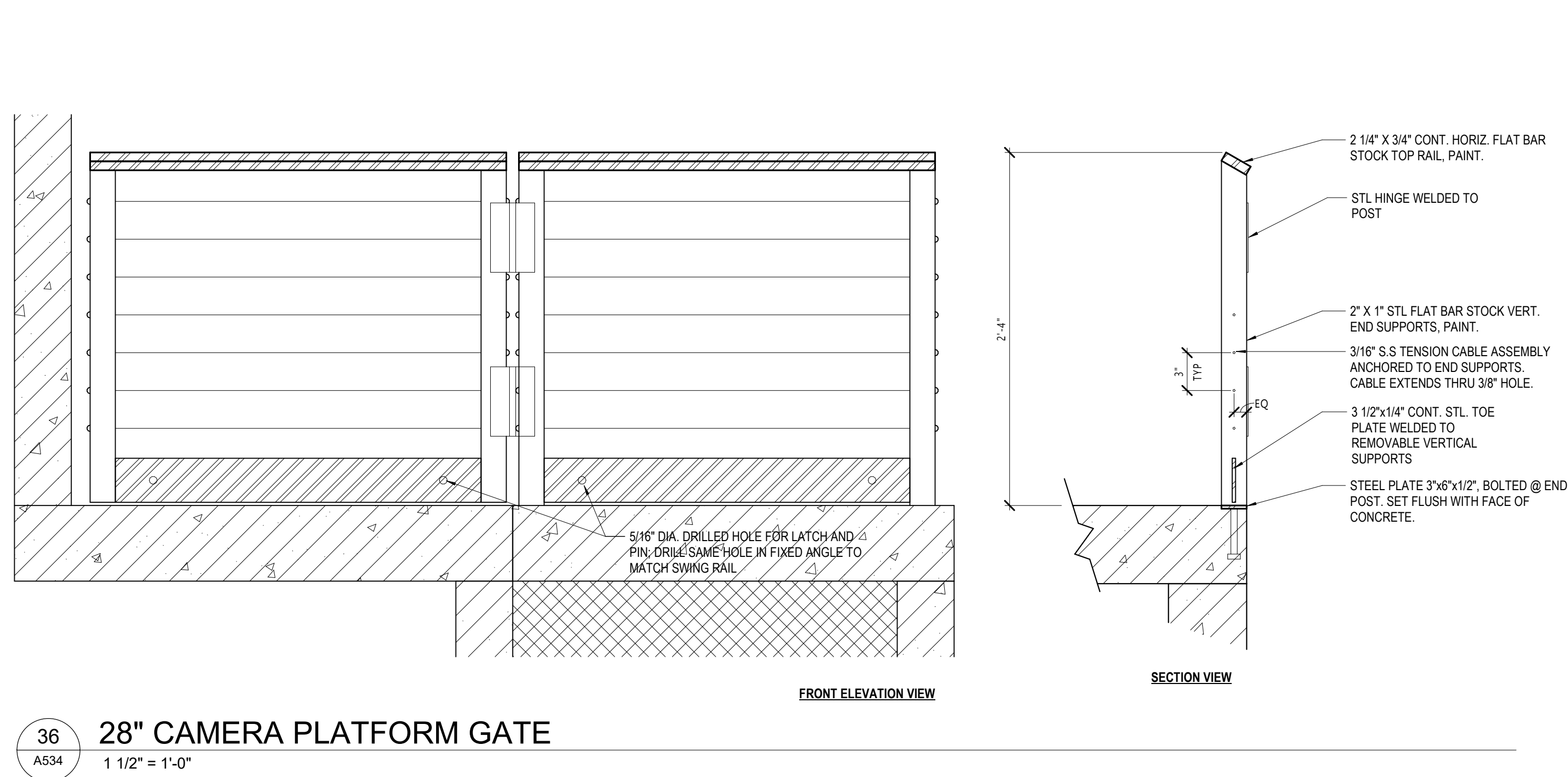
PC
HALFEN CHANNEL
PRECAST CONNECTION DETAIL



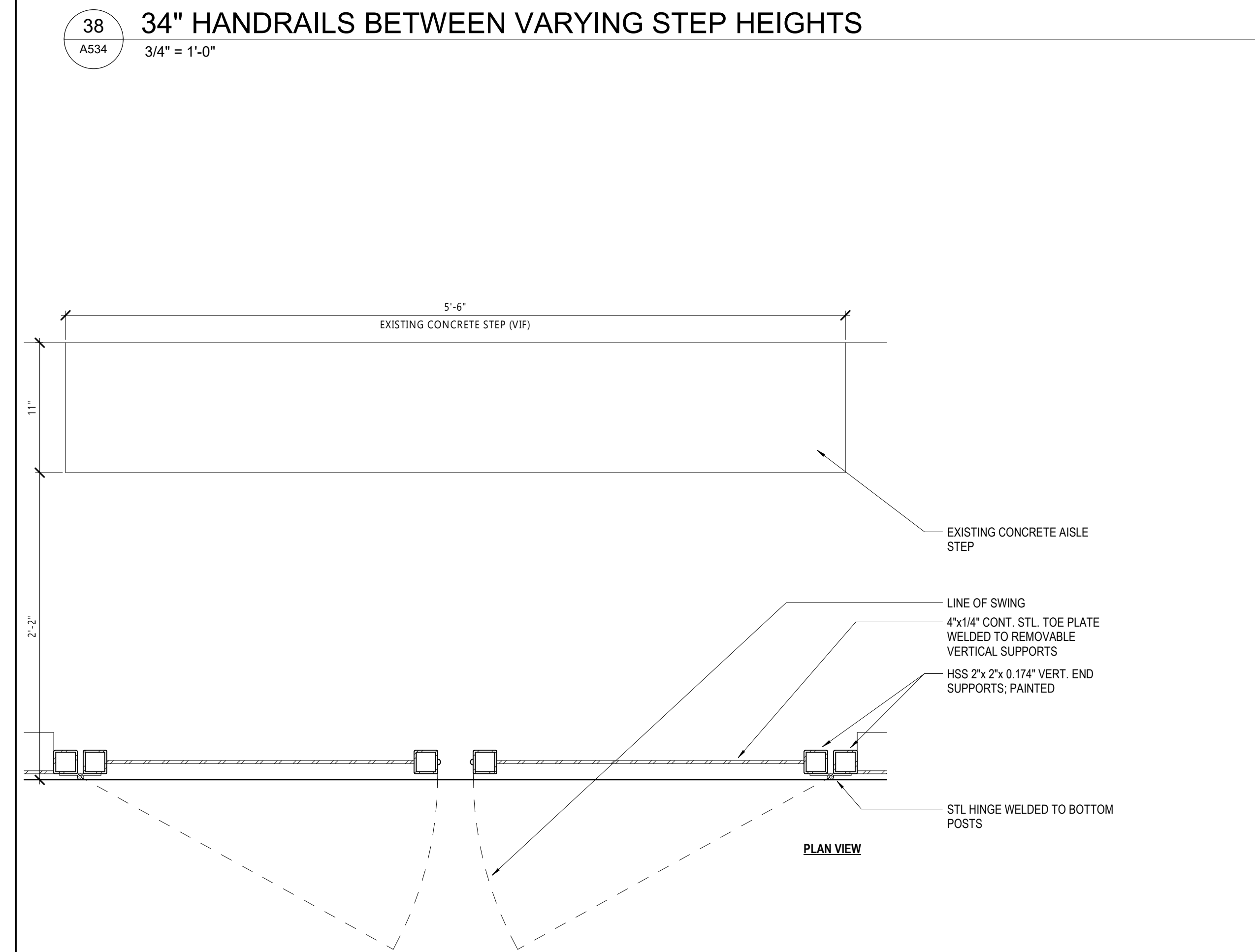
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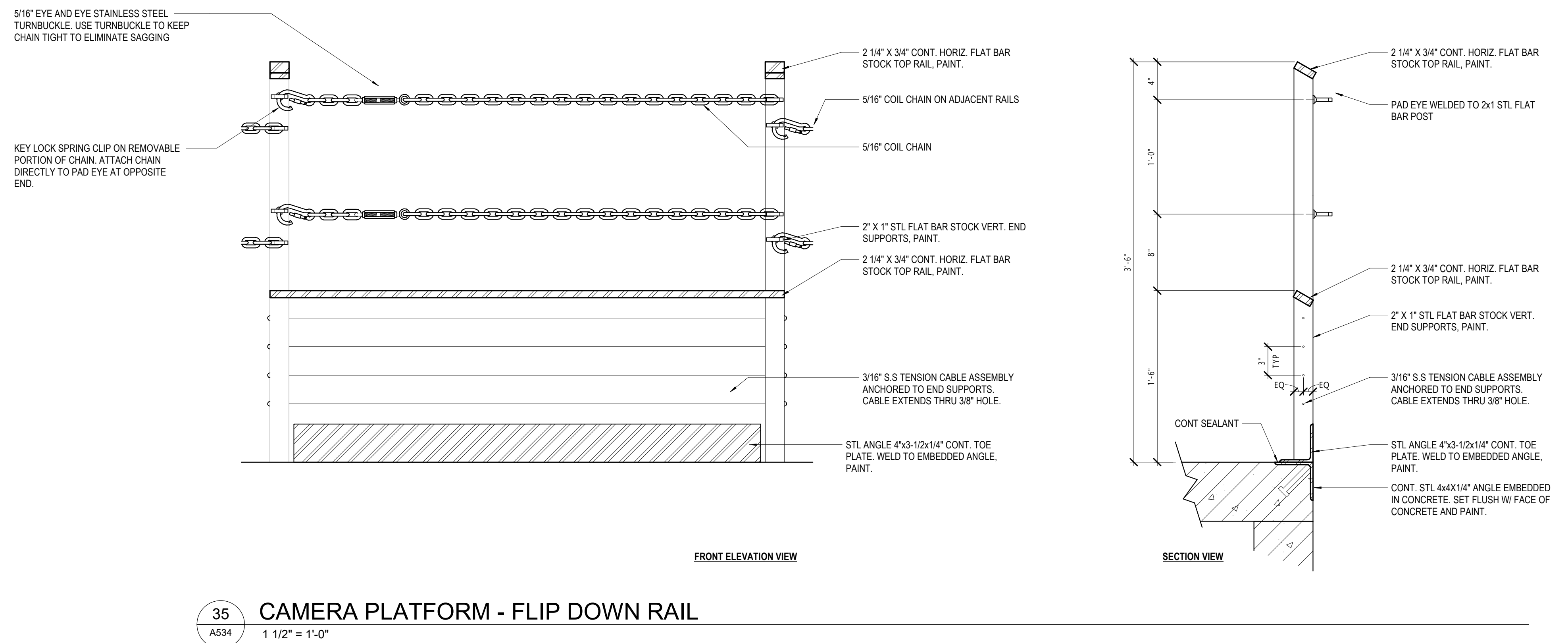
37 MEZZANINE PARTITION GUARD
1 1/2" = 1'-0"



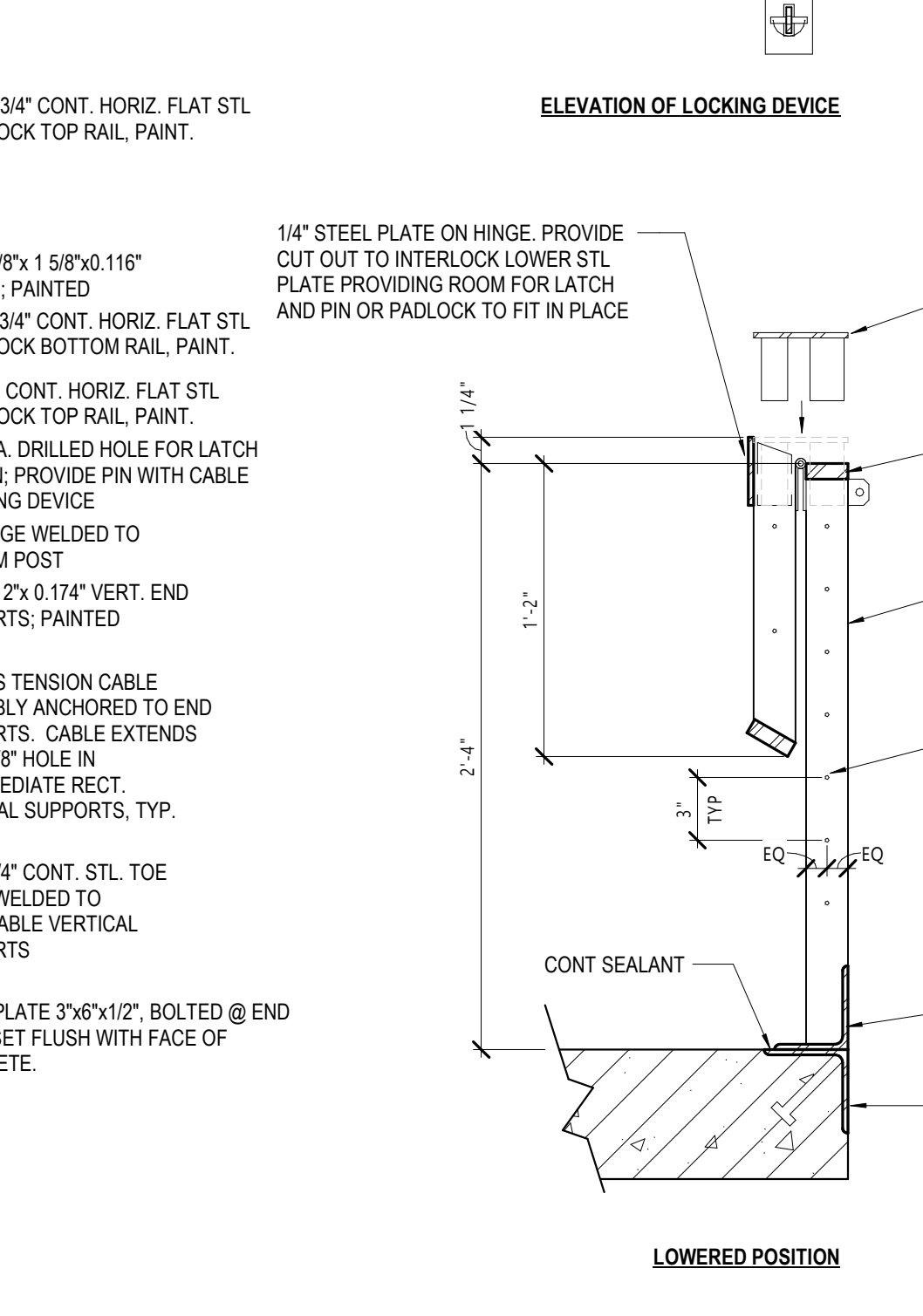
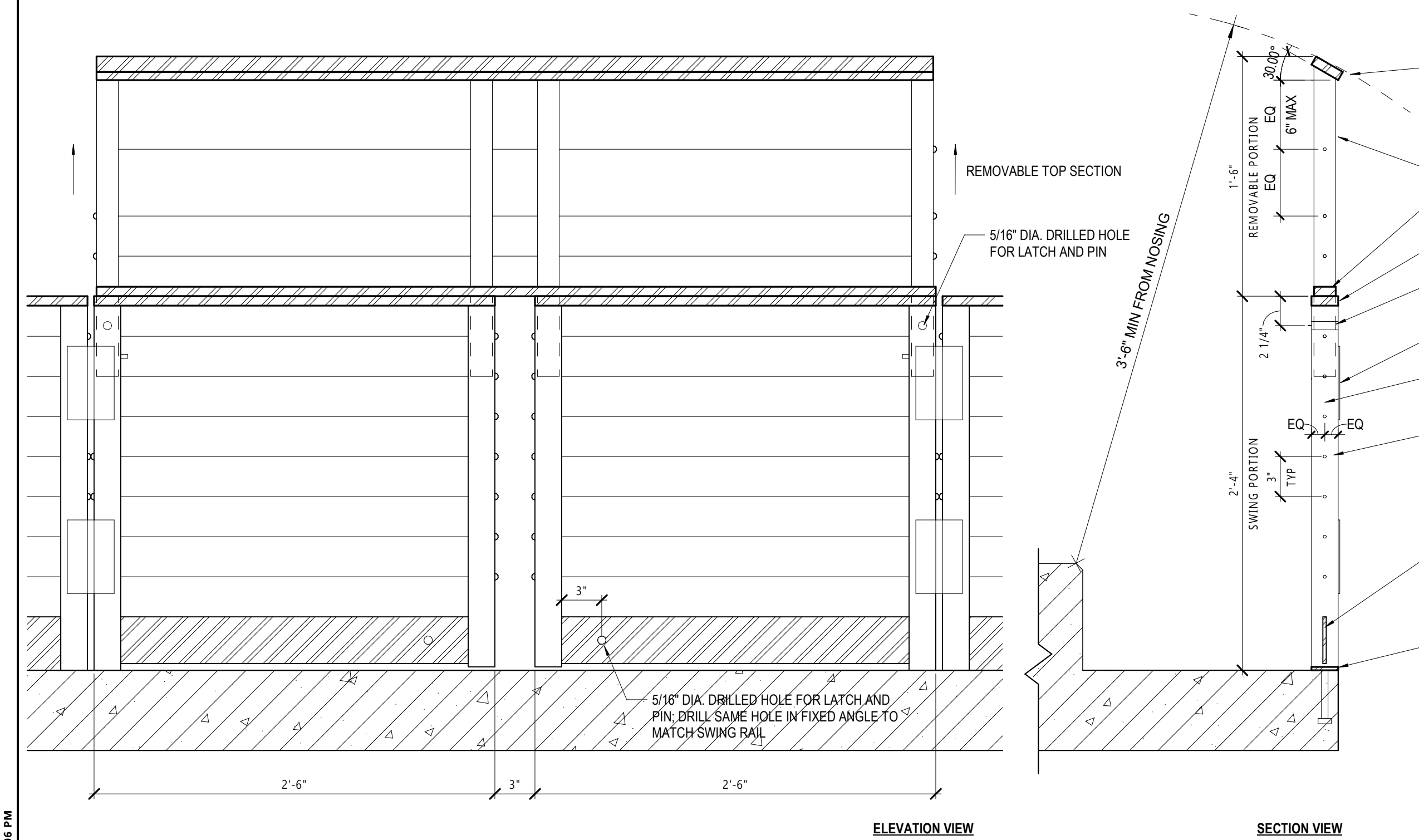
36 28" CAMERA PLATFORM GATE
1 1/2" = 1'-0"



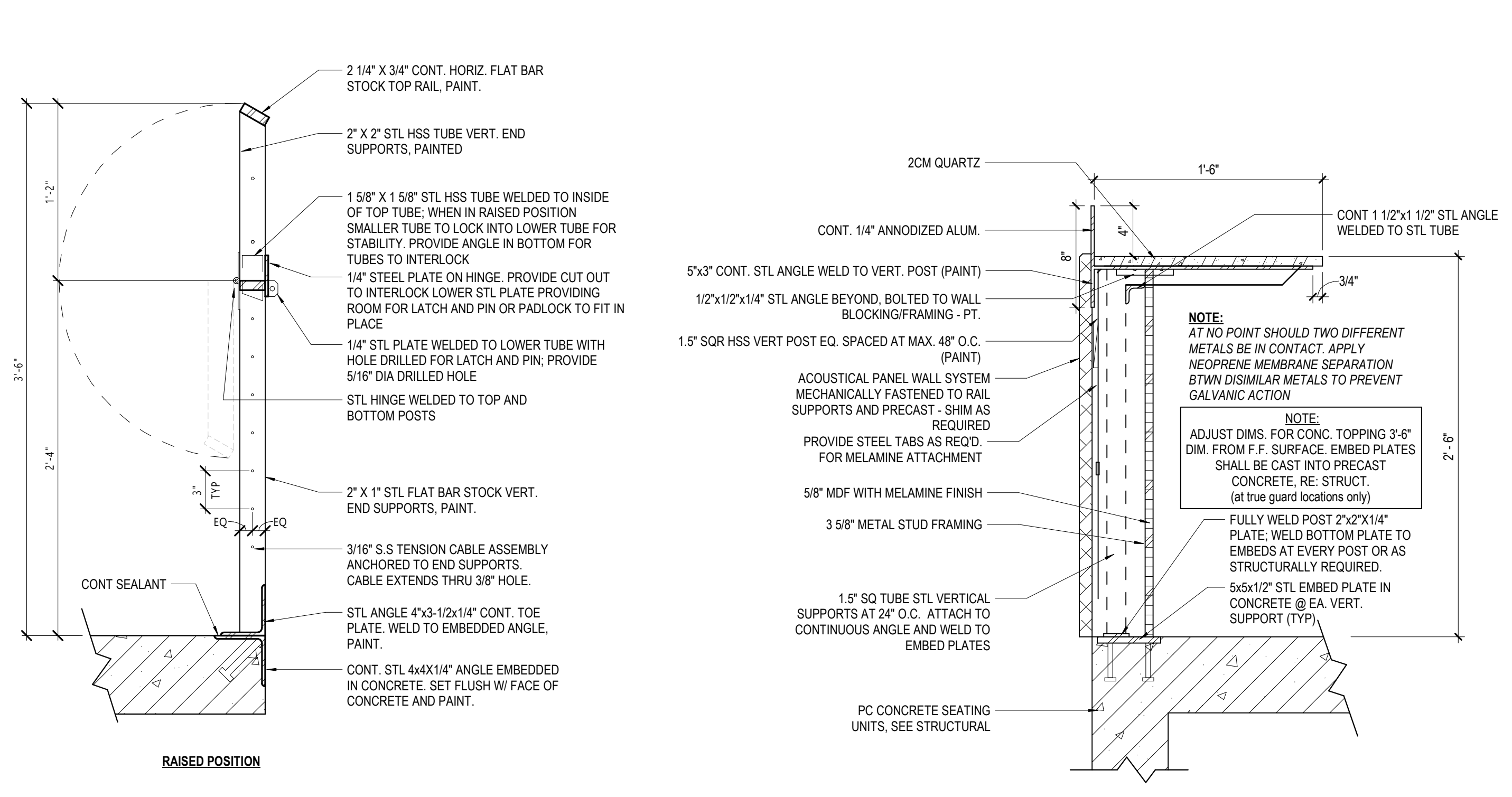
38 34" HANDRAILS BETWEEN VARYING STEP HEIGHTS
3/4" = 1'-0"



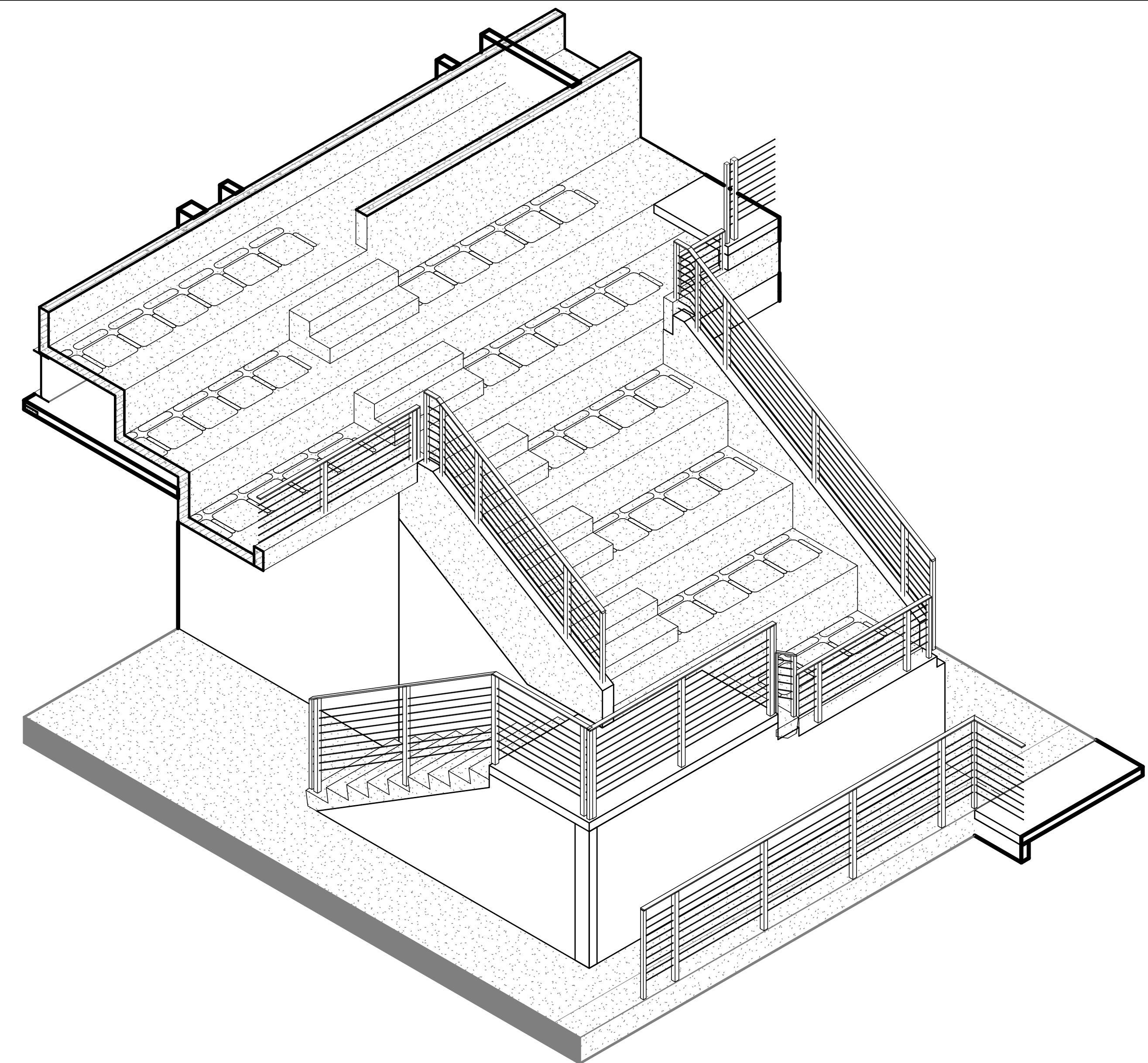
35 CAMERA PLATFORM - FLIP DOWN RAIL
1 1/2" = 1'-0"



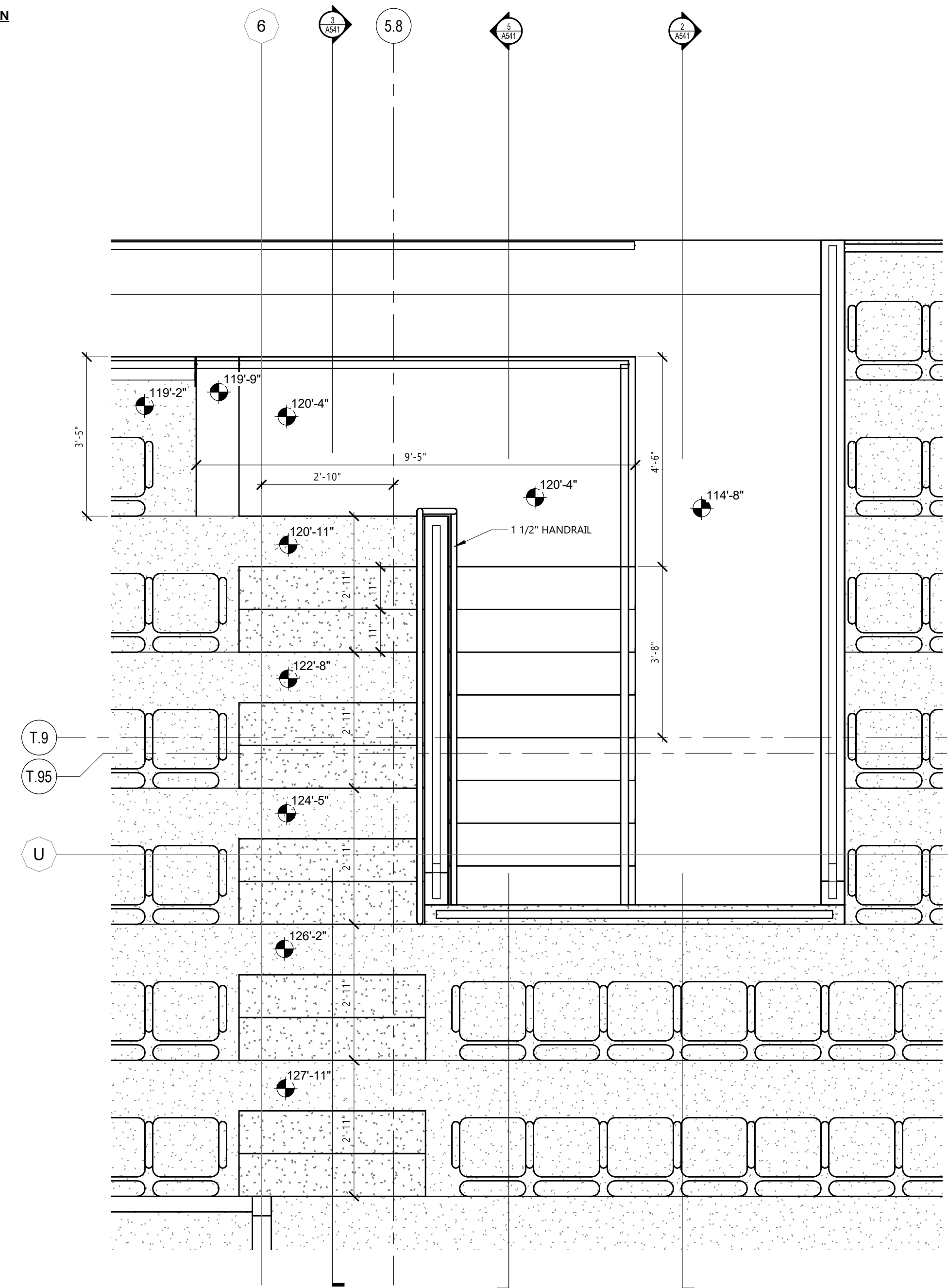
33 28" TO 42" ADJUSTABLE GUARDRAIL
1 1/2" = 1'-0"



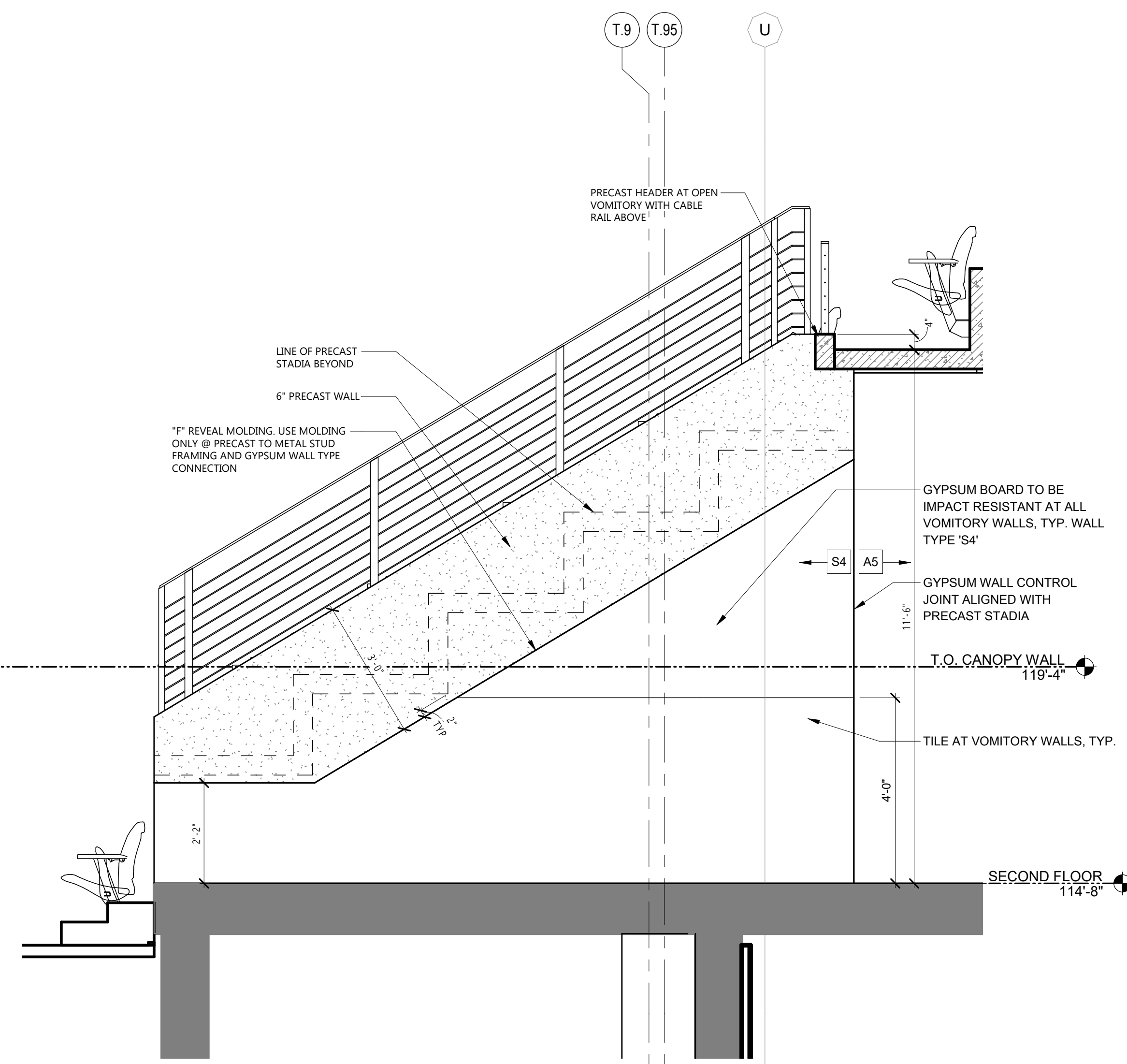
32 30" PRESS DRINKRAIL
1 1/2" = 1'-0"



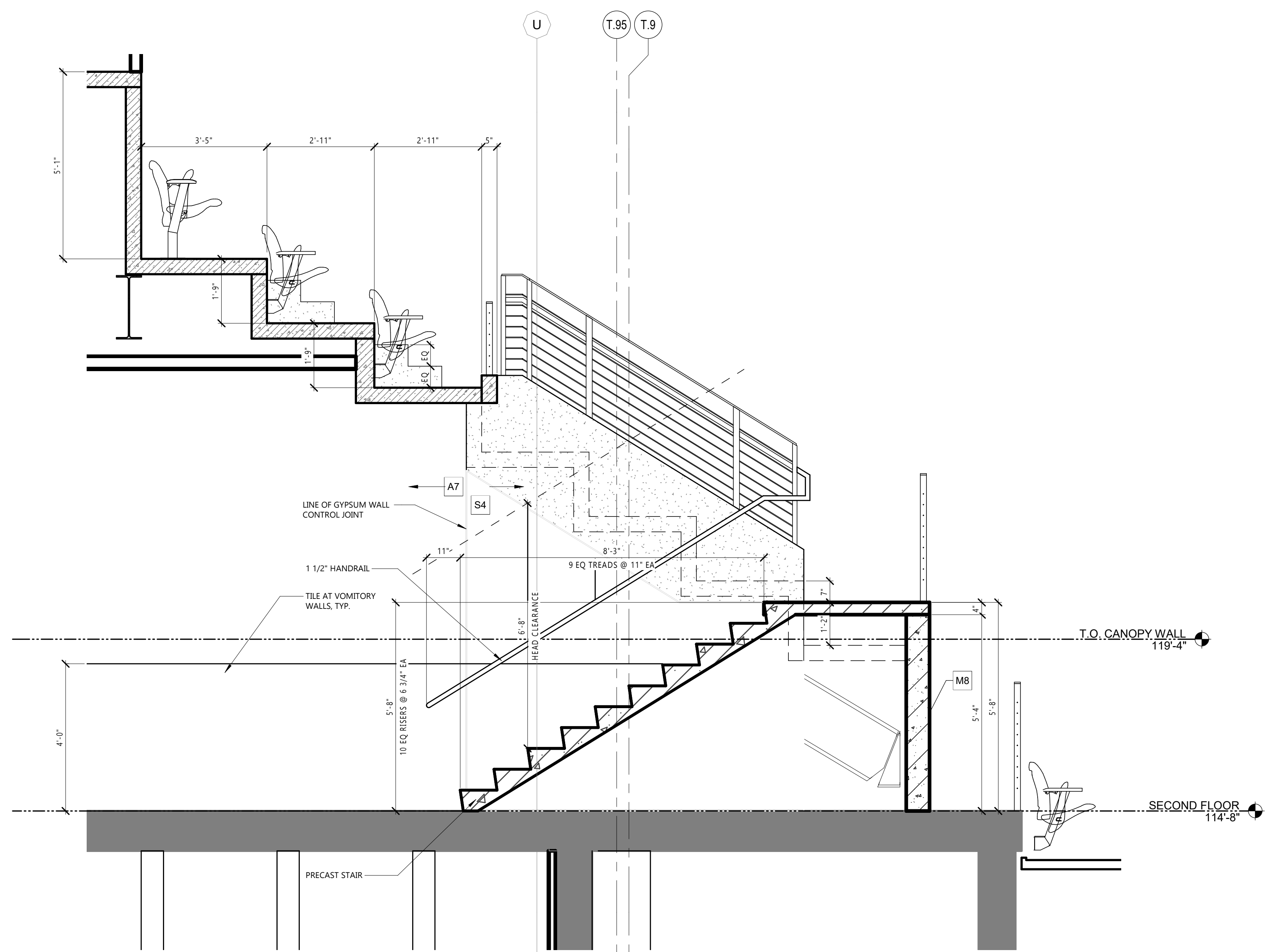
4 3D VIEW @ VOMITORY - TYPE 1
A541
DIAGRAM FOR REFERENCE ONLY
NOT ALL RAILS AND INFORMATION IS SHOWN



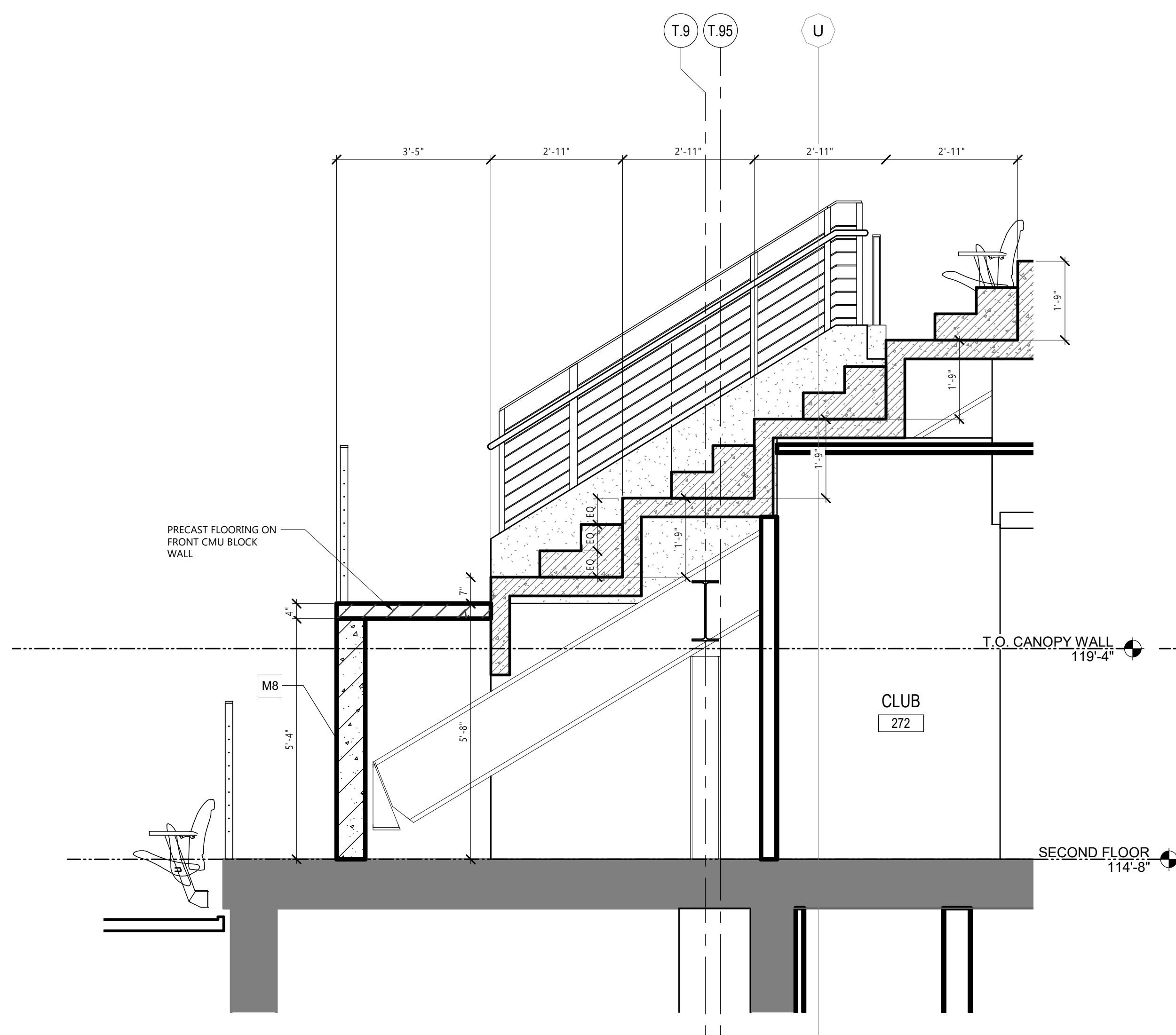
1 VOMITORY - TYPE 1
A541
1/2" = 1'-0"



2 SECTION THRU VOMITORY - TYPE 1
A541
1/2" = 1'-0"



5 SECTION THRU VOMITORY - TYPE 1 (REVERSE)
A541
1/2" = 1'-0"



3 SECTION THRU VOMITORY - TYPE 1 (BOWL)
A541
1/2" = 1'-0"

FOR REFERENCE
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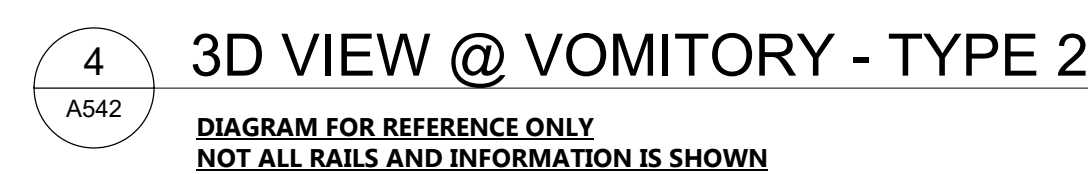
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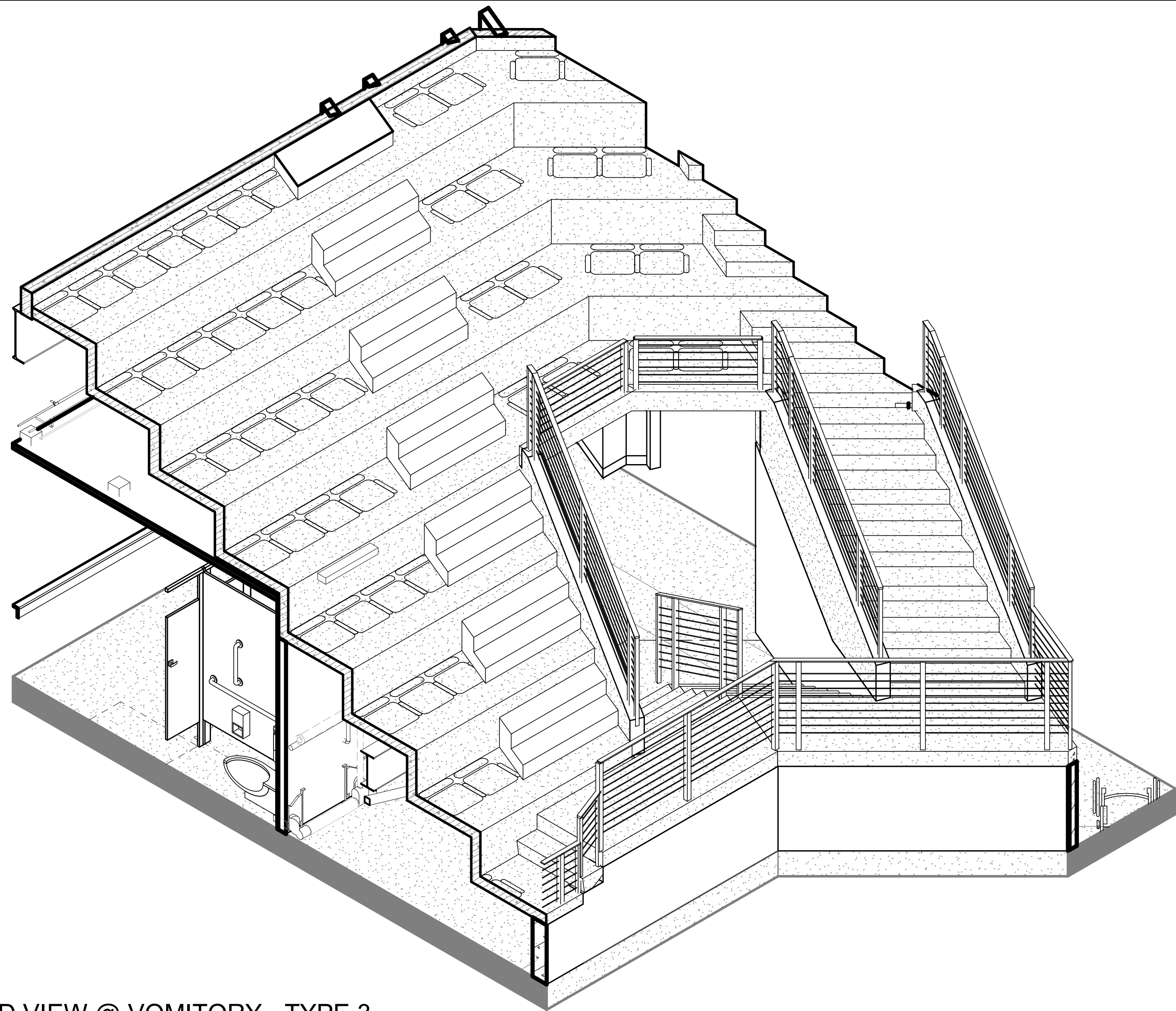
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PRECAST - VOMITORY
PLANS AND DETAILS

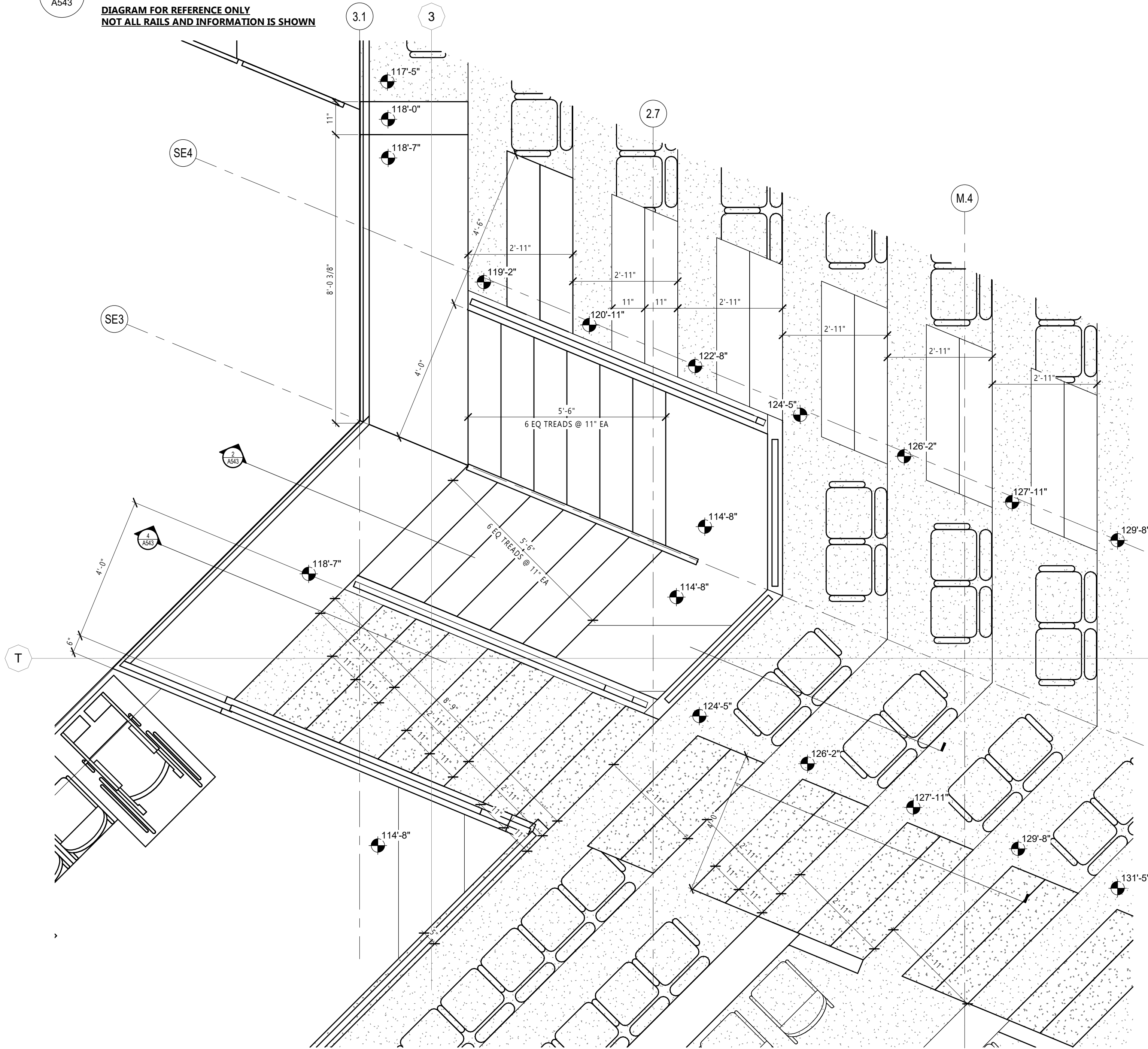
A542





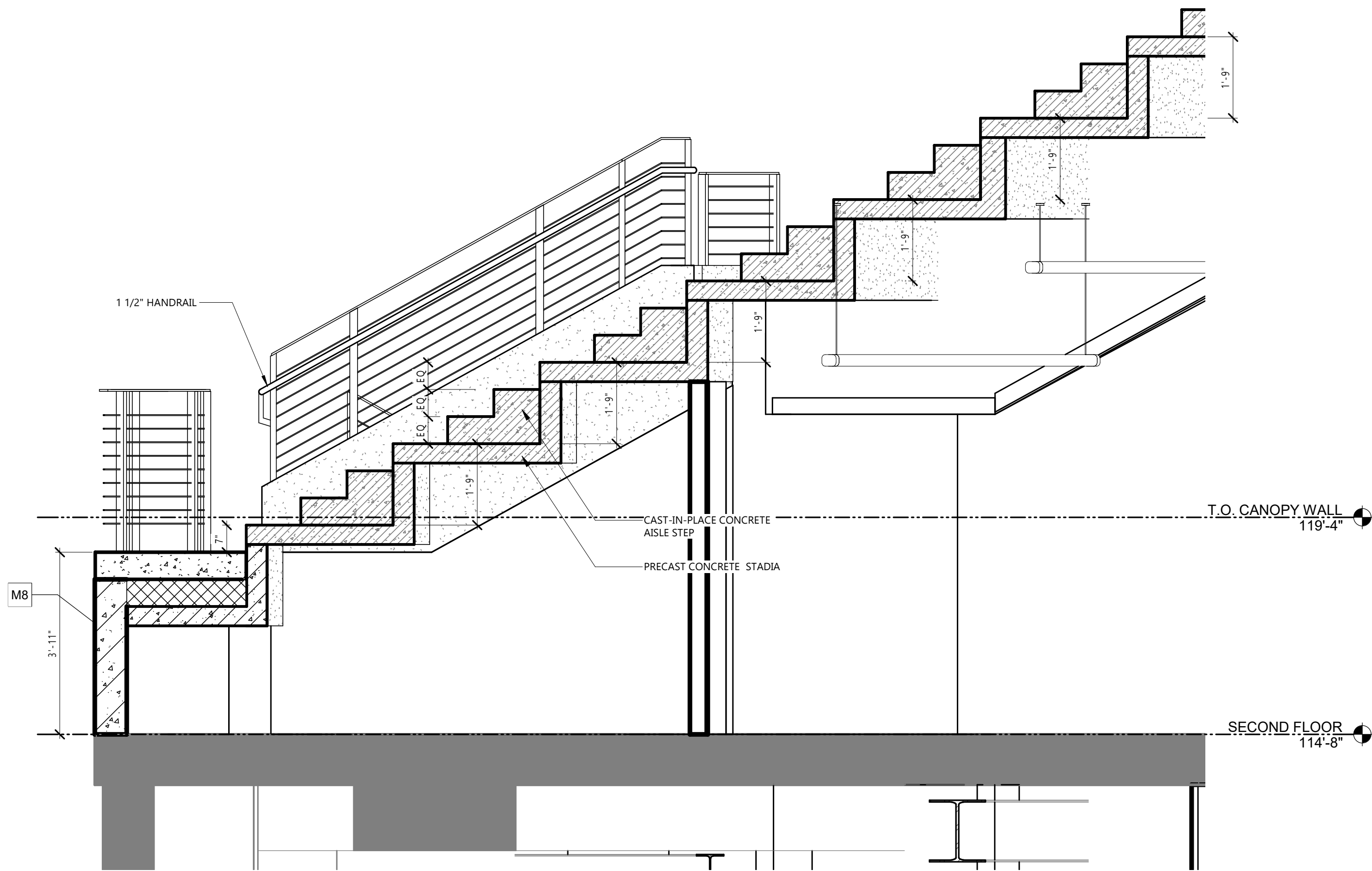
3 3D VIEW @ VOMITORY - TYPE 3

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NOT ALL RAILS AND INFORMATION IS SHOWN



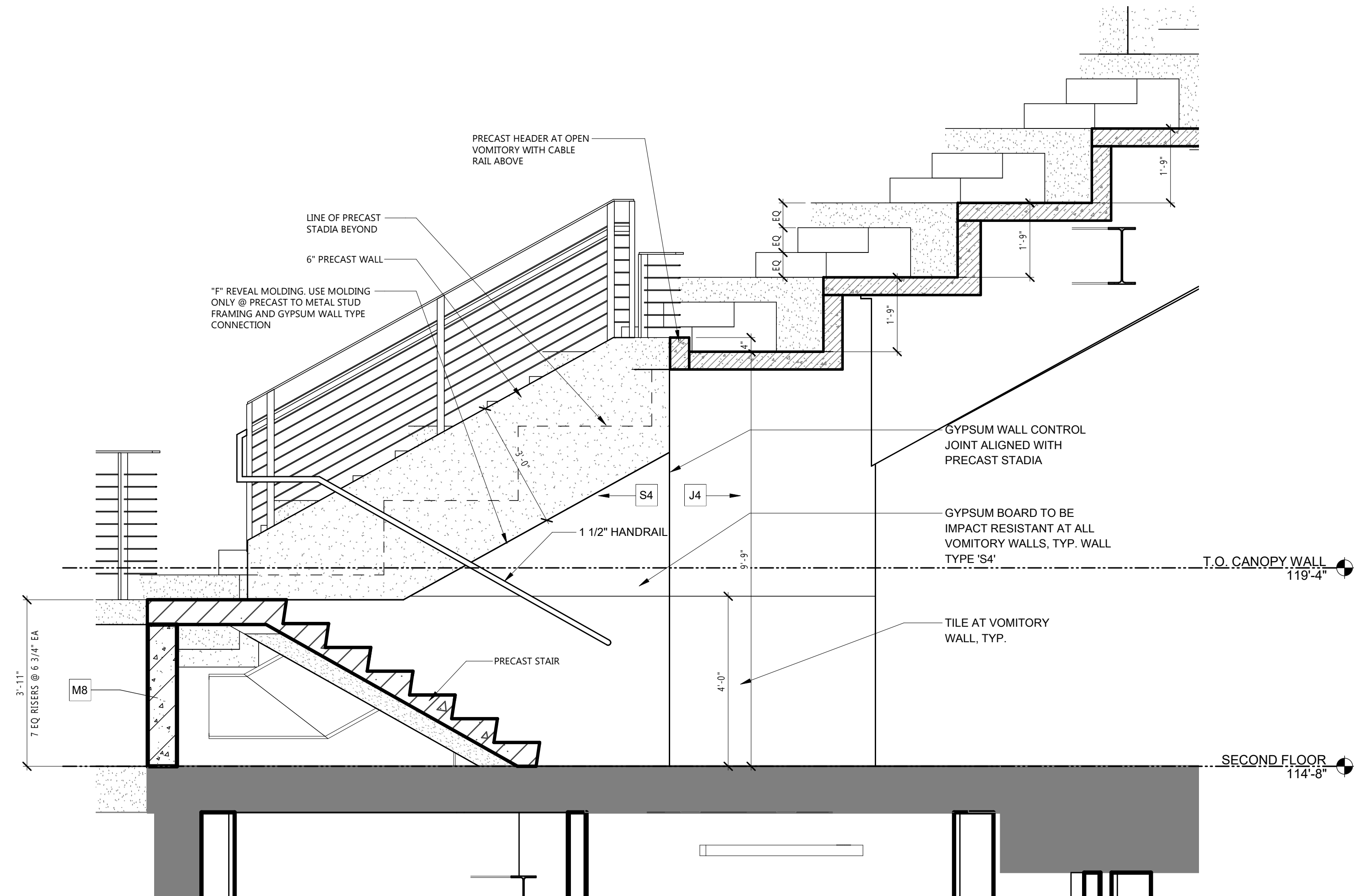
1 VOMITORY - TYPE 3

1/2" = 1'-0"



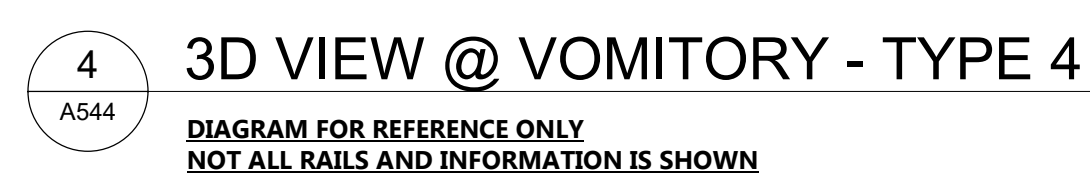
4 SECTION THRU VOMITORY - TYPE 3 (BOWL)

1/2" = 1'-0"



2 SECTION THRU VOMITORY - TYPE 3

1/2" = 1'-0"



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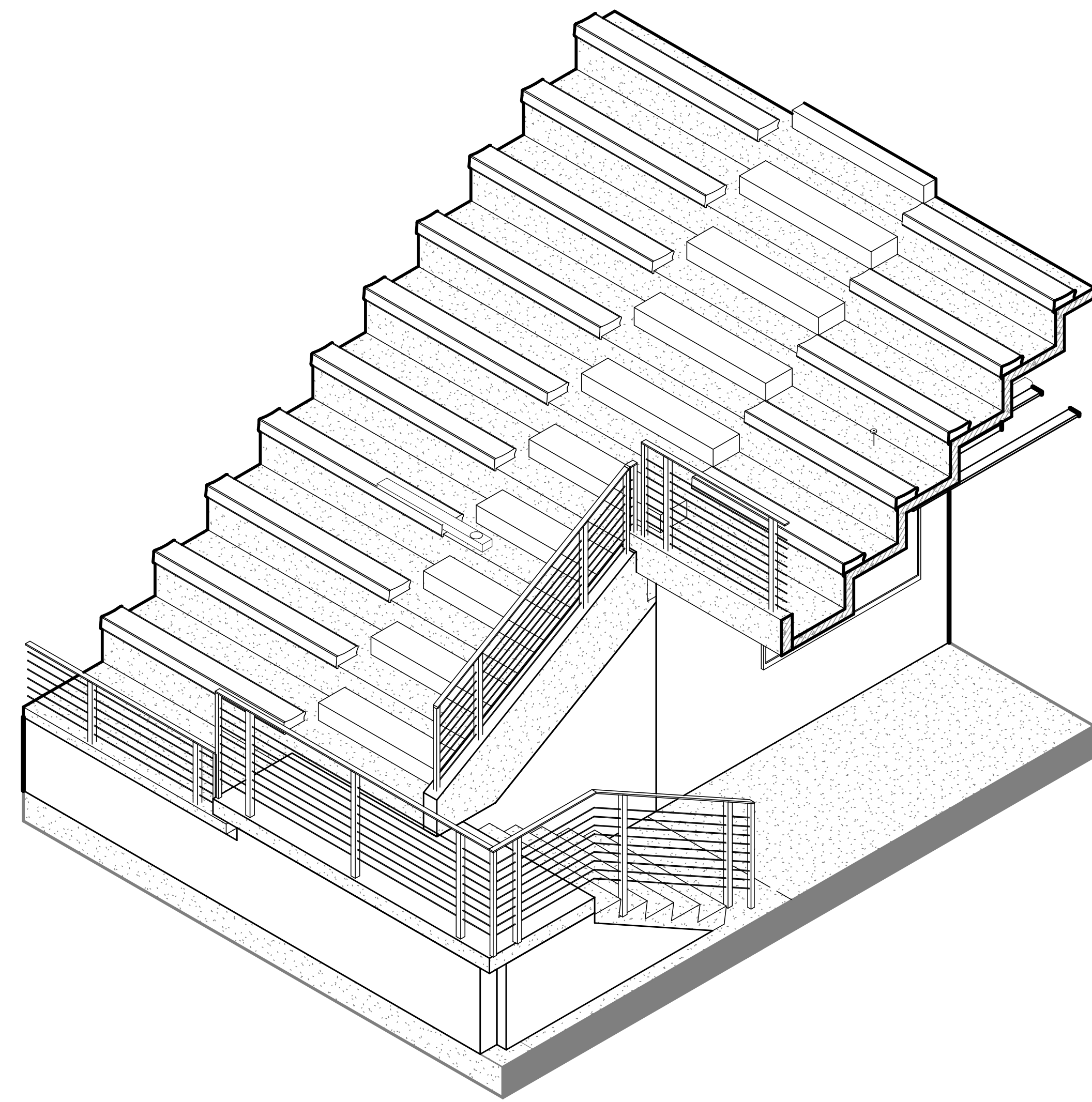
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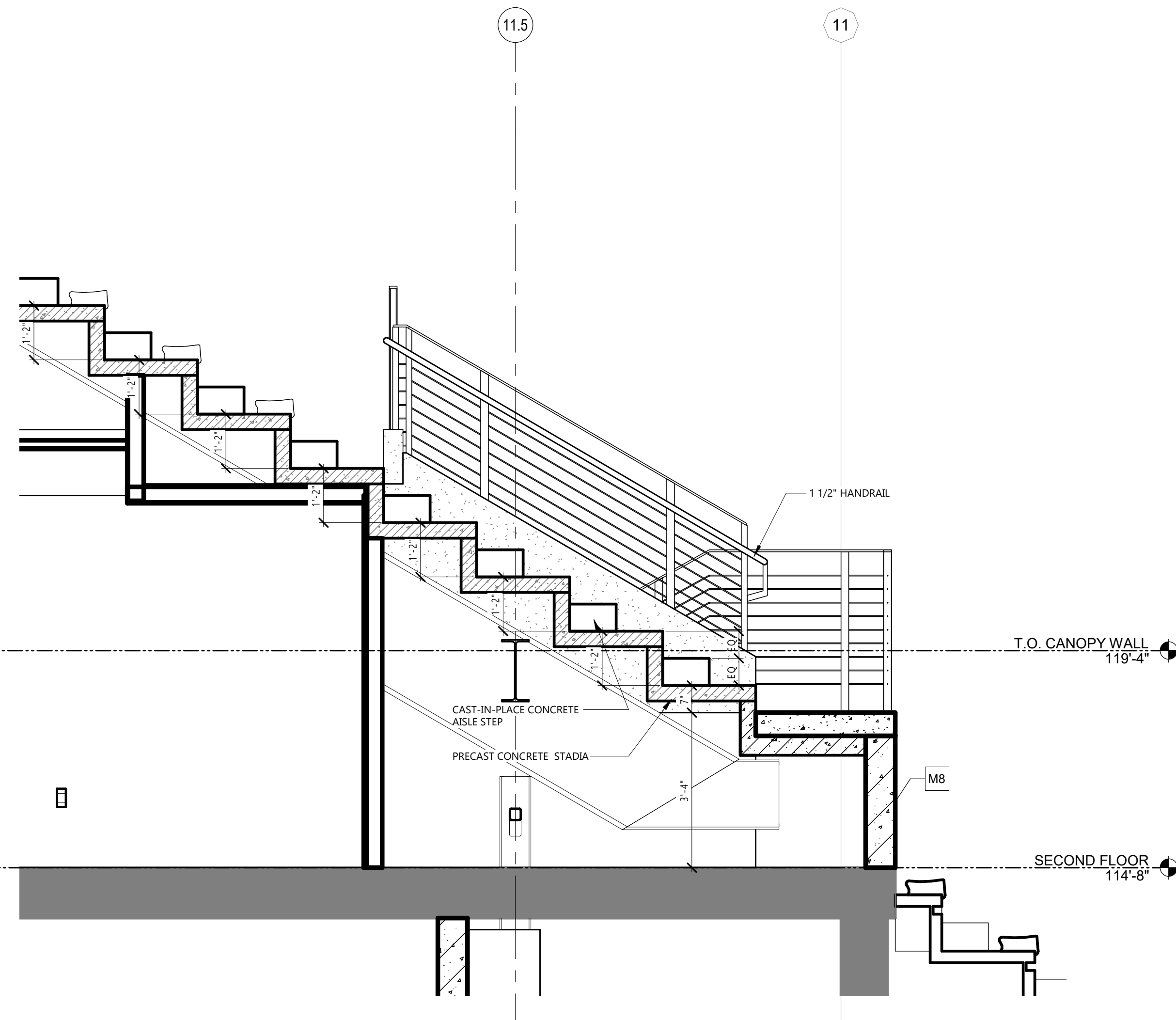
DRAWING TITLE
PRECAST - VOMITORY PLANS AND DETAILS

A545



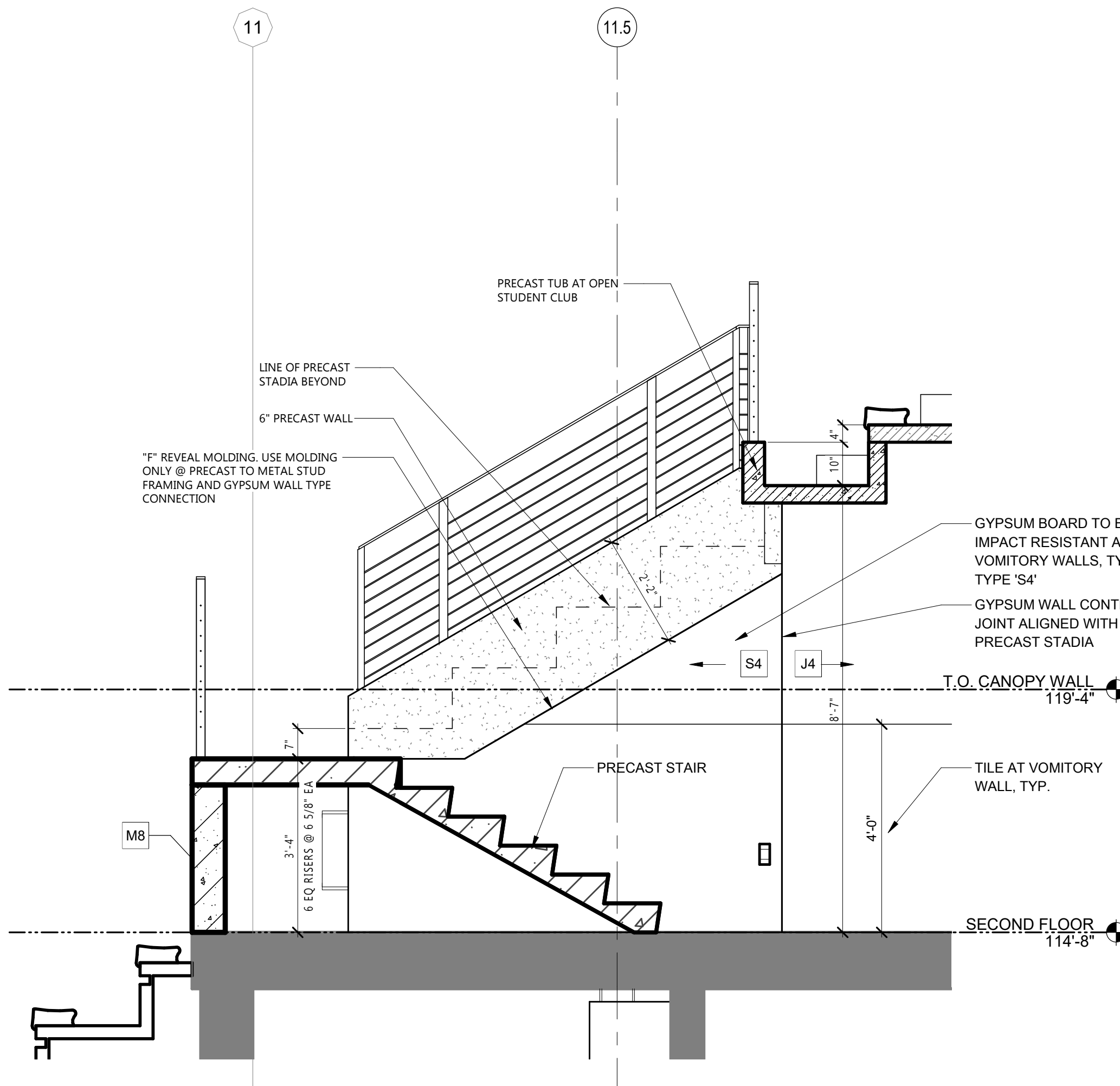
4 3D VIEW @ VOMITORY - TYPE 5

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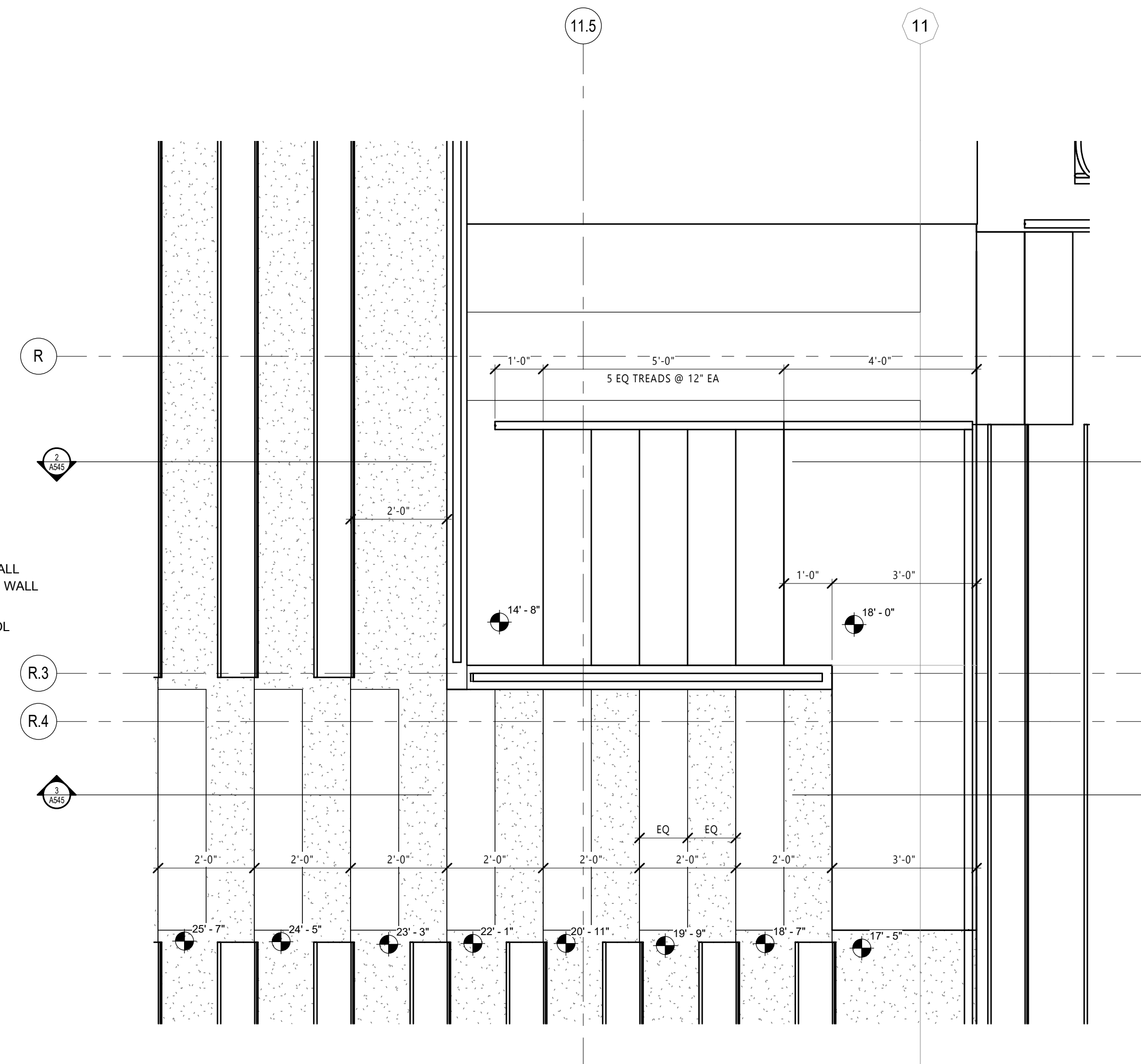
3 SECTION THRU VOMITORY - TYPE 5 (BOWL)

1/2" = 1'-0"



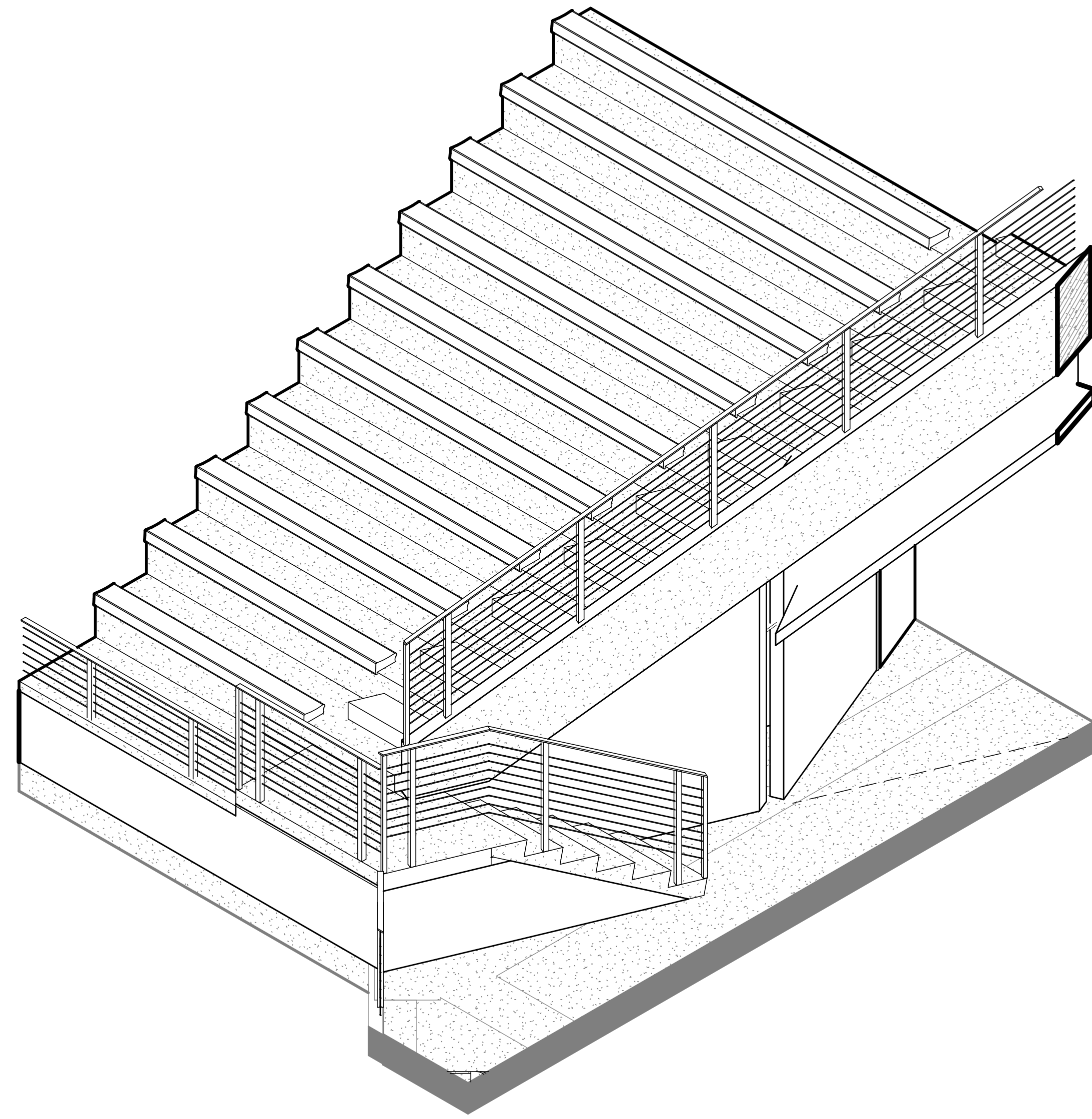
2 SECTION THRU VOMITORY - TYPE 5

1/2" = 1'-0"



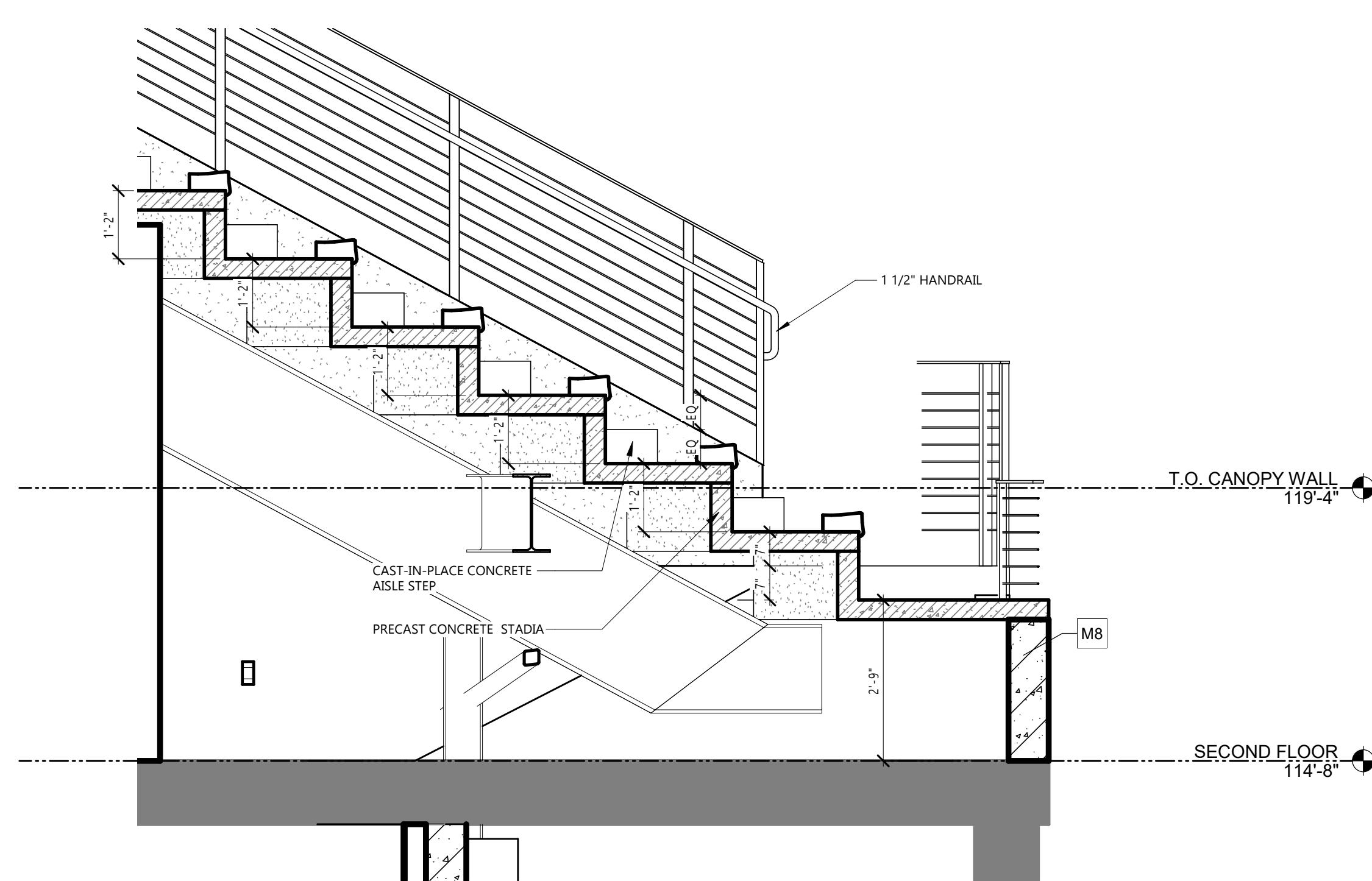
1 VOMITORY - TYPE 5

1/2" = 1'-0"

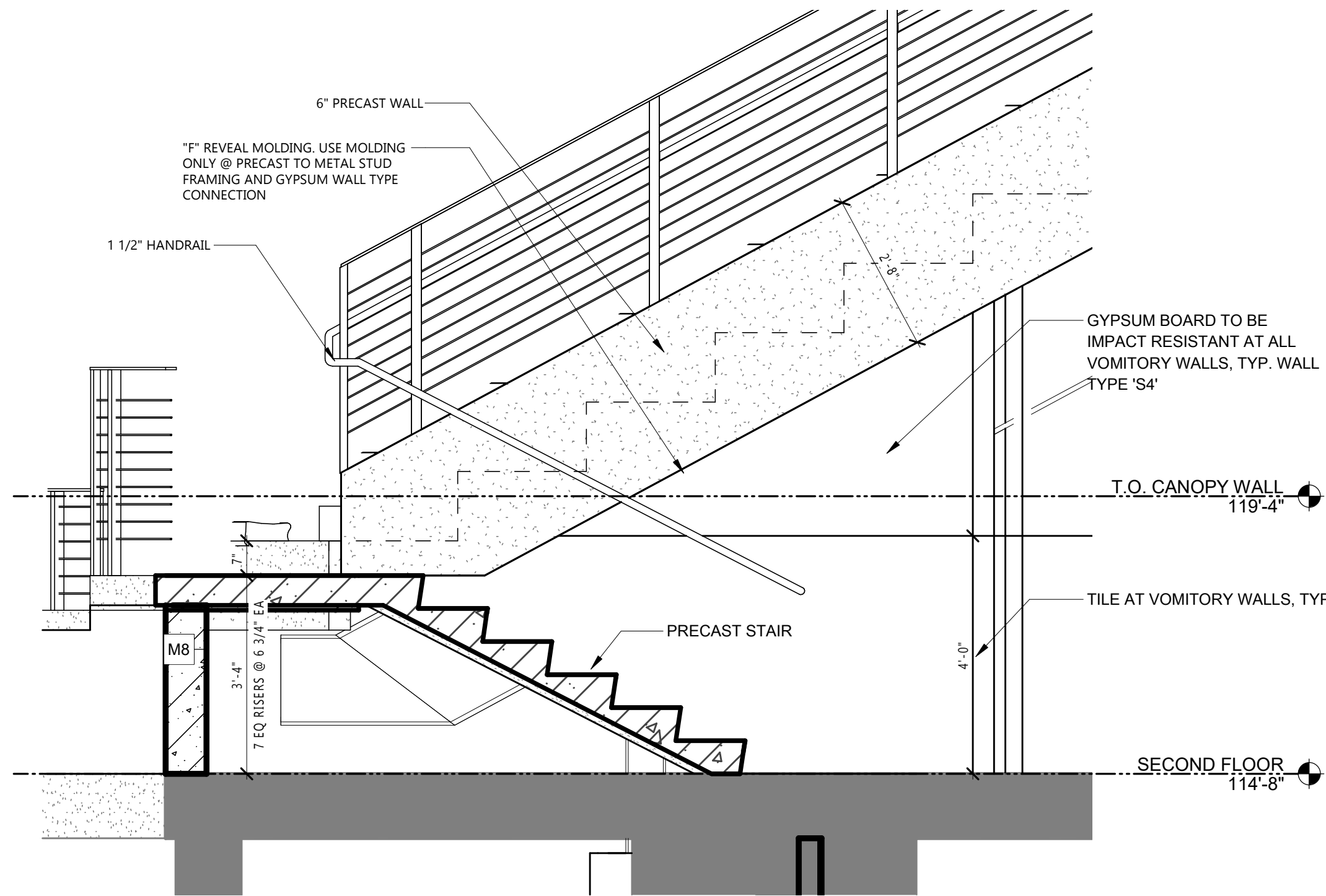


4 3D VIEW @ VOMITORY - TYPE 6

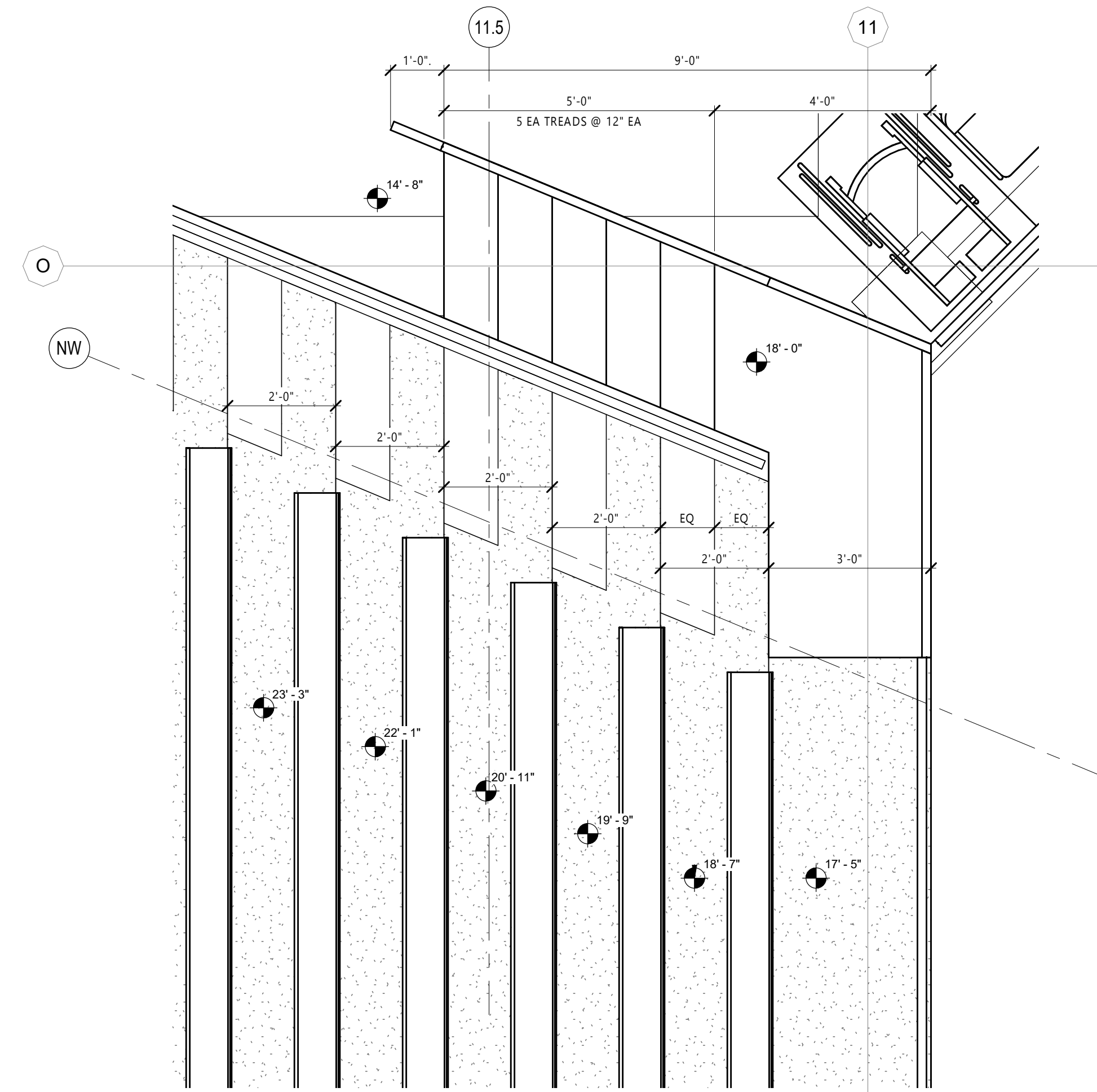
DIAGRAM FOR REFERENCE ONLY
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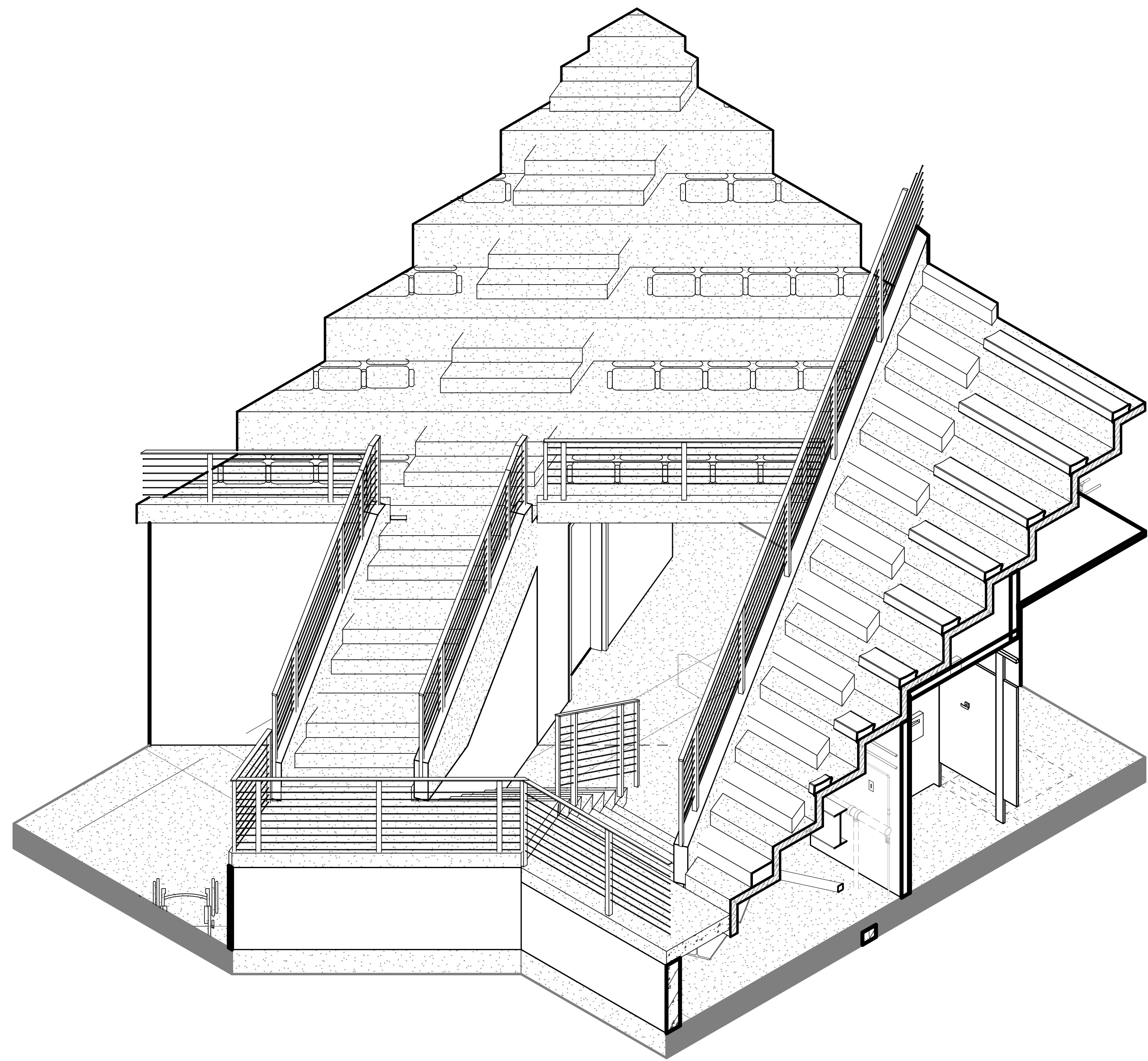
3 SECTION THRU VOMITORY - TYPE 6 (BOWL)
1/2" = 1'-0"



2 SECTION THRU VOMITORY - TYPE 6
1/2" = 1'-0"

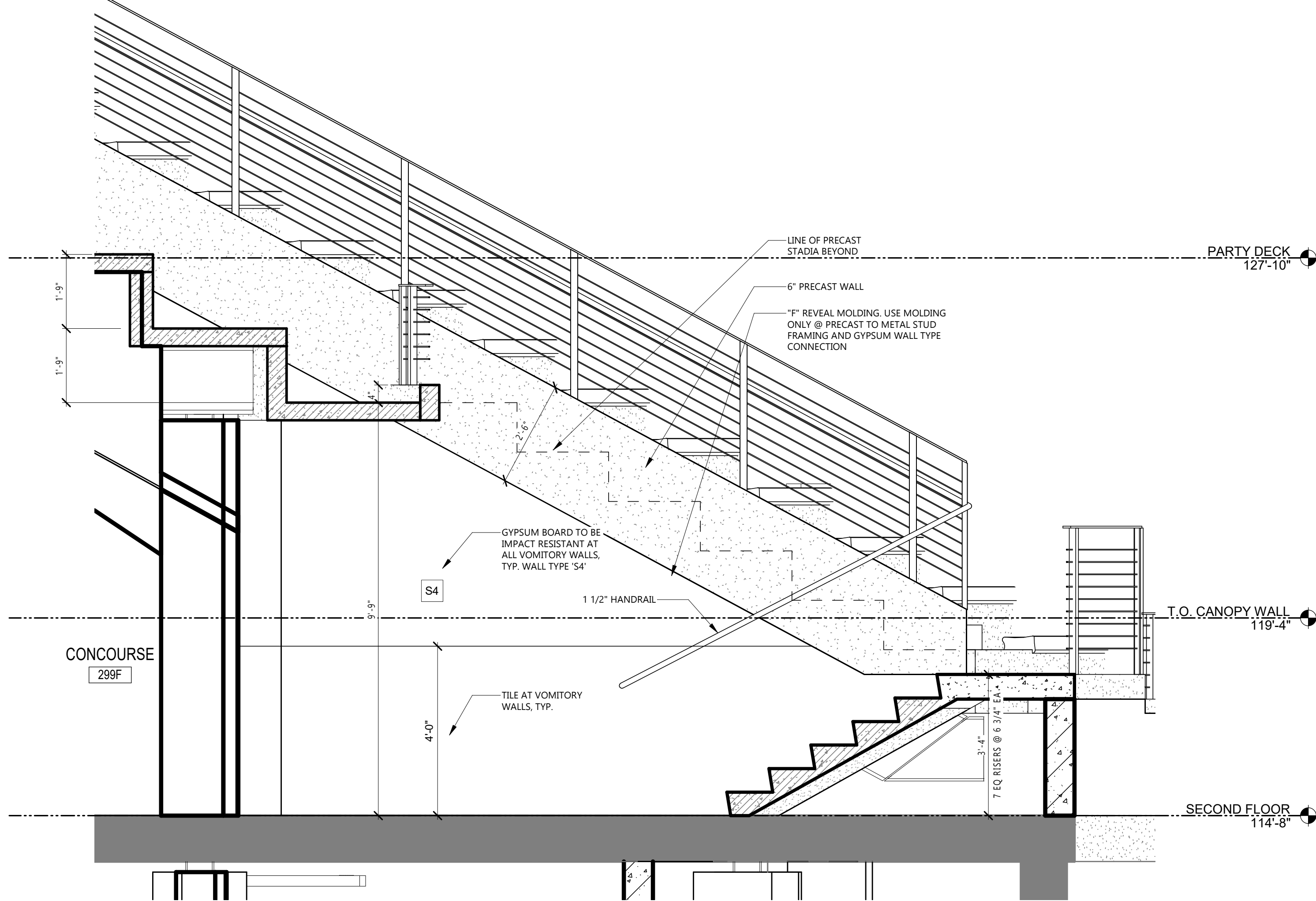


1 VOMITORY - TYPE 6
1/2" = 1'-0"



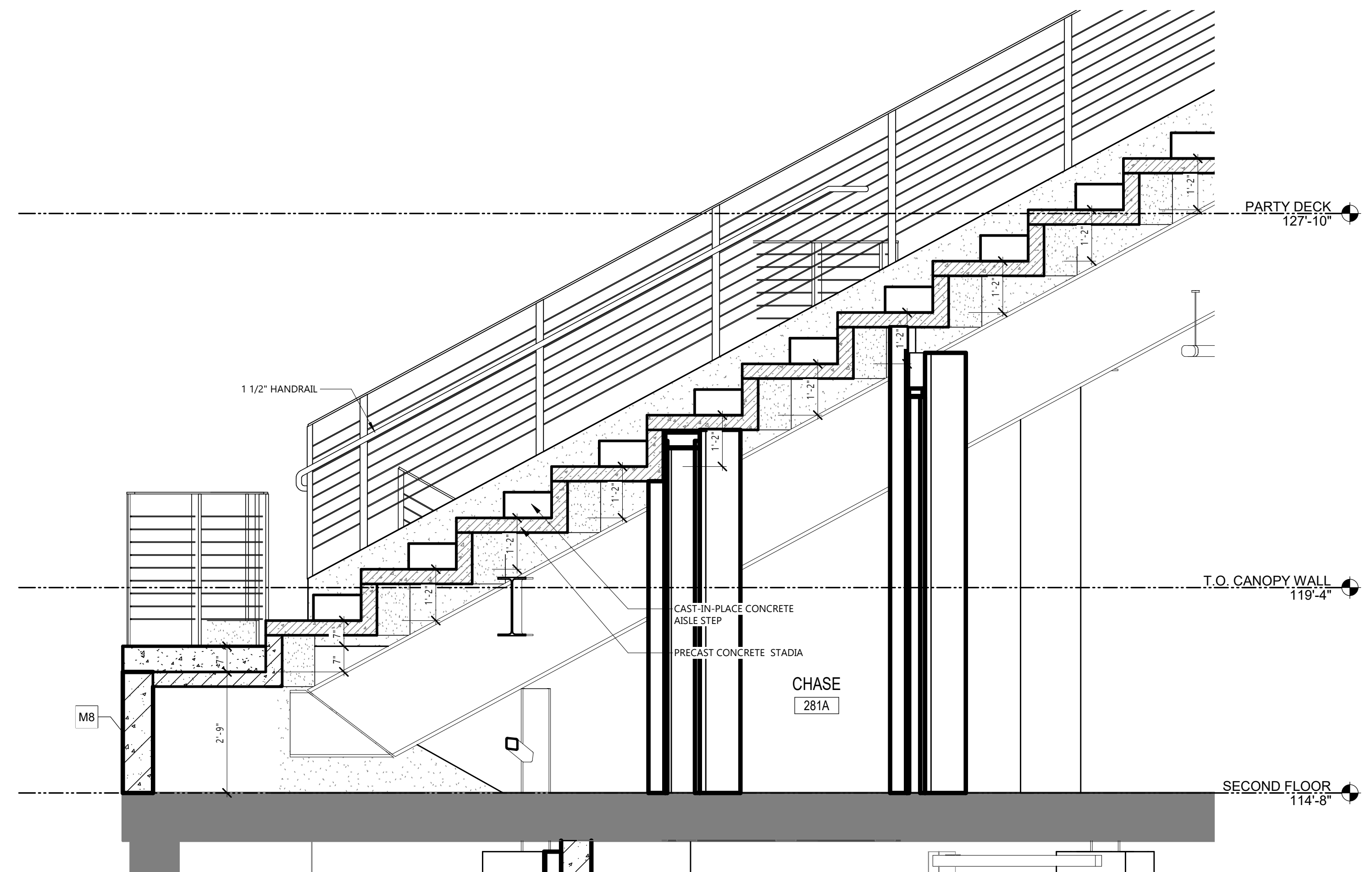
5 3D VIEW @ VOMITORY - TYPE 7

AS47
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NOT ALL RAILS AND INFORMATION IS SHOWN



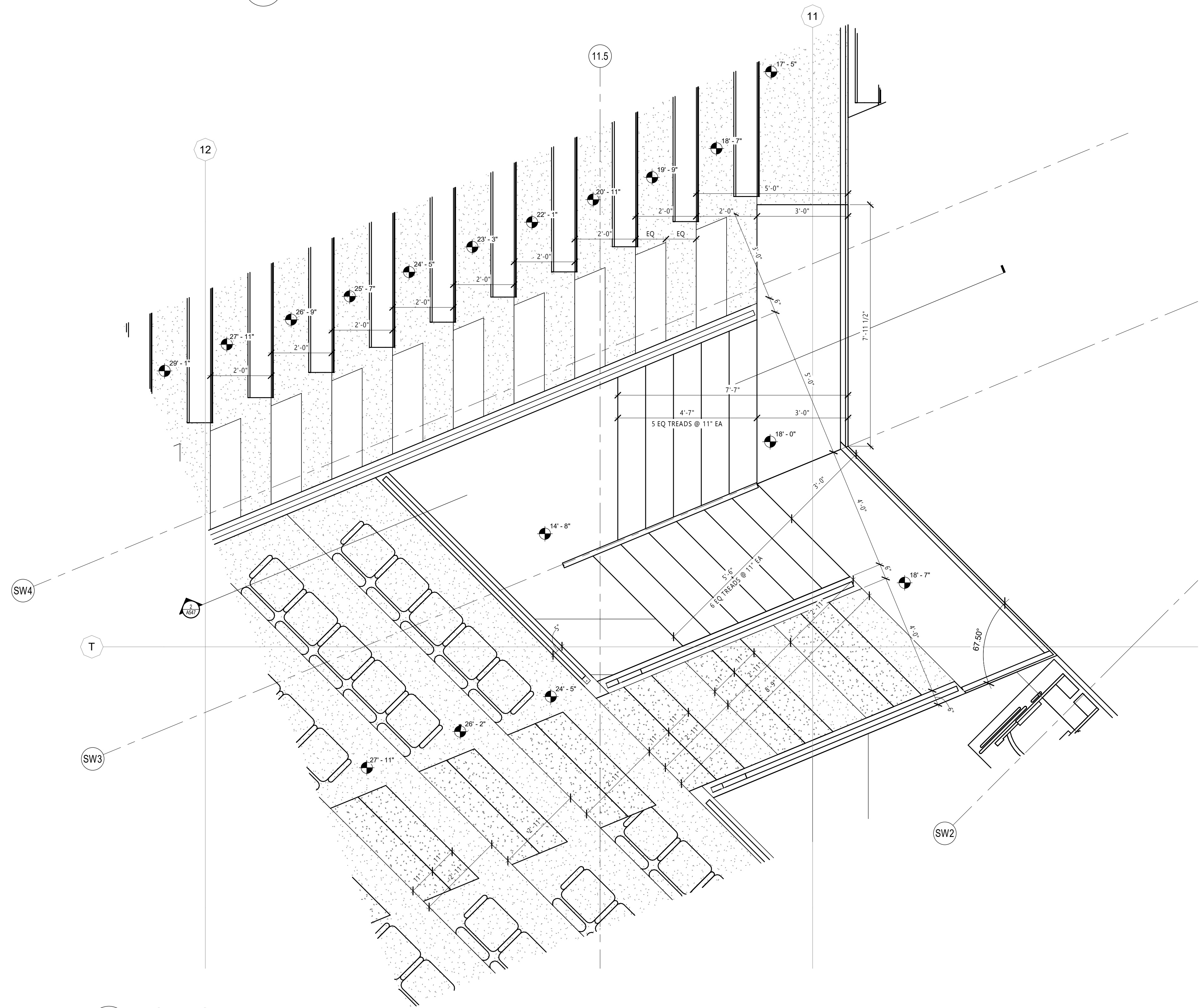
2 SECTION THRU VOMITORY - TYPE 7

AS47
1/2" = 1'-0"



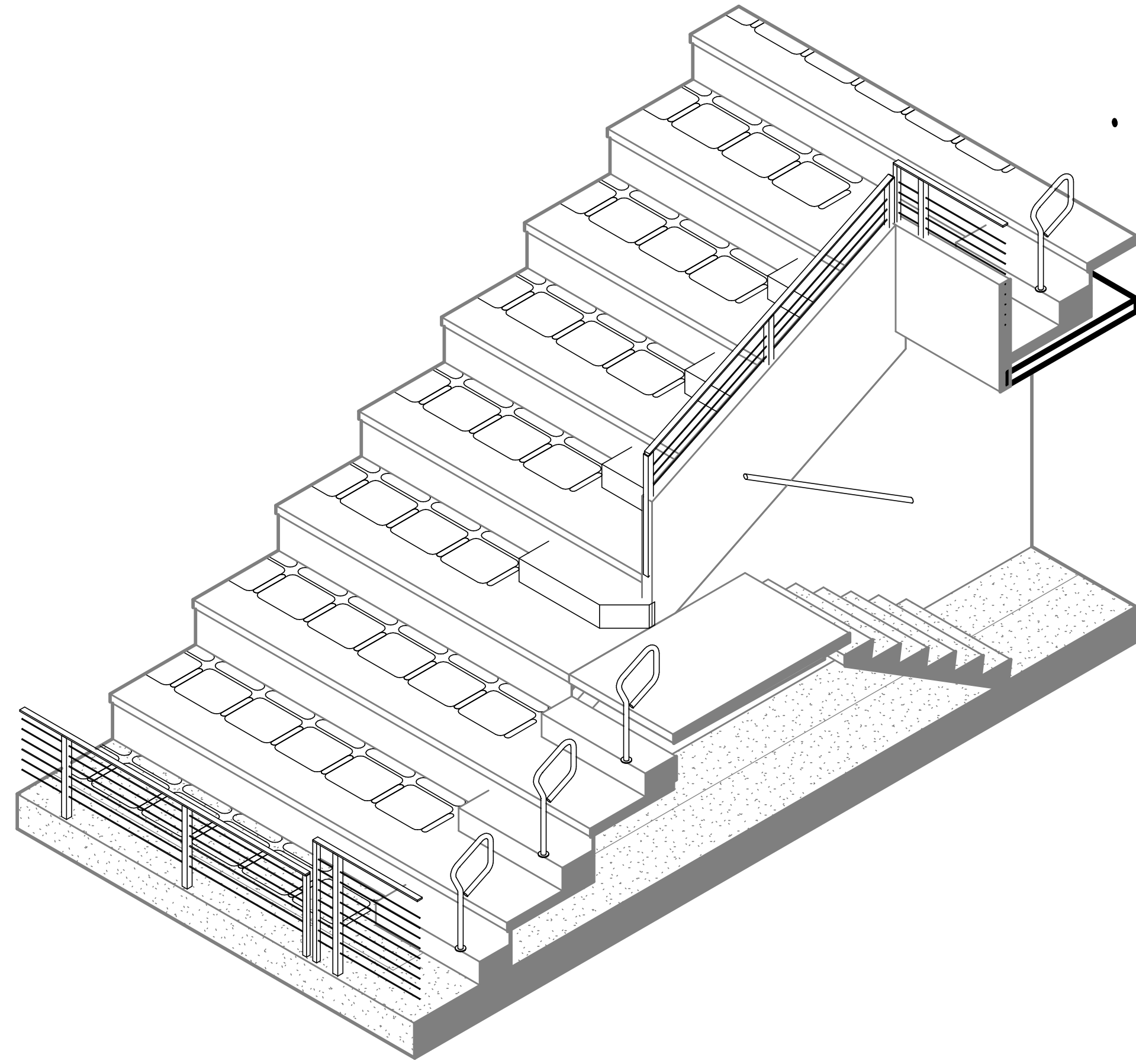
3 SECTION THRU VOMITORY - TYPE 7 (BOWL)

AS47
1/2" = 1'-0"



1 VOMITORY - TYPE 7

AS47
1/2" = 1'-0"

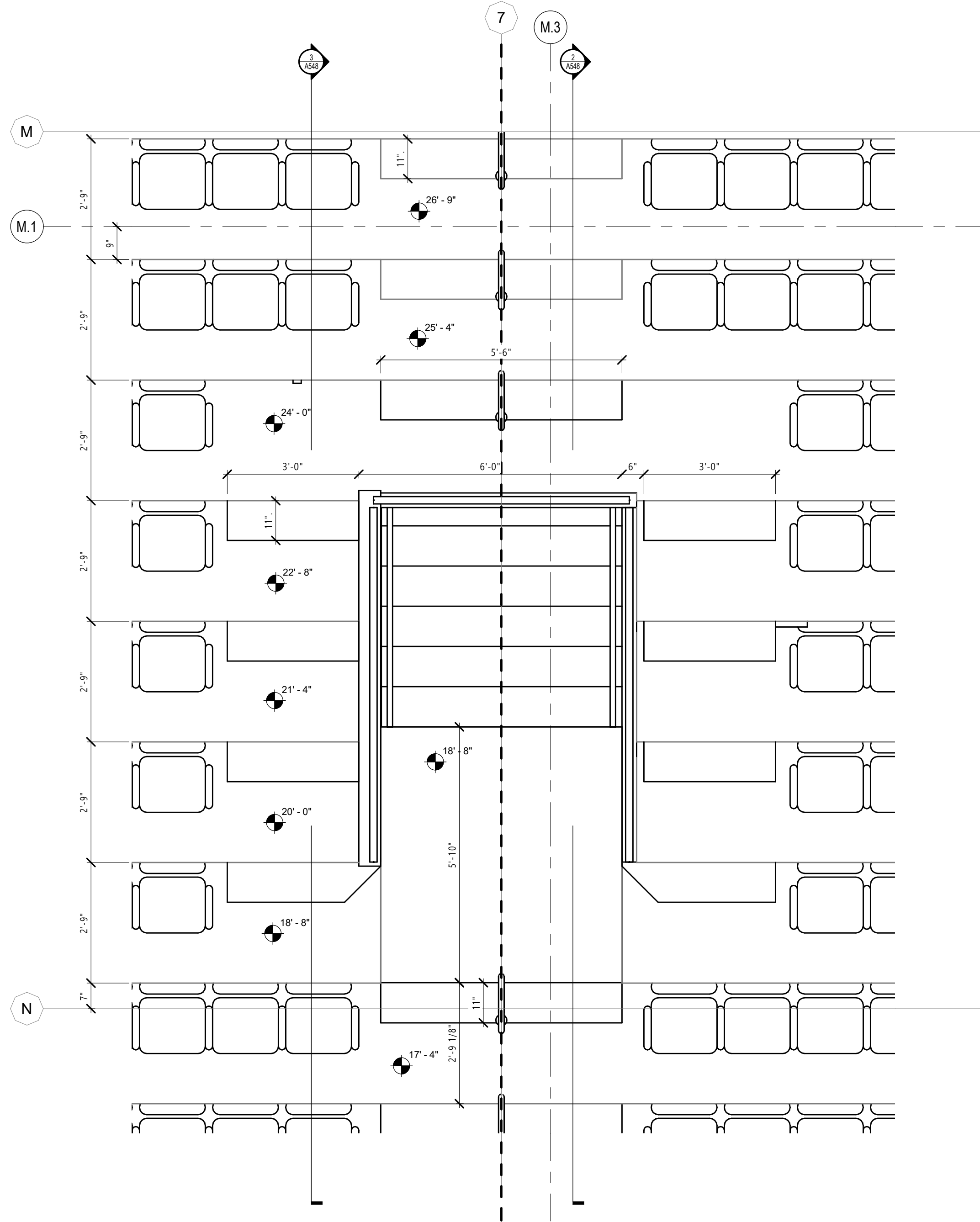


4

A548

3D VIEW @ VOMITORY - TYPE 8 (EXISTING)

DIAGRAM FOR REFERENCE ONLY
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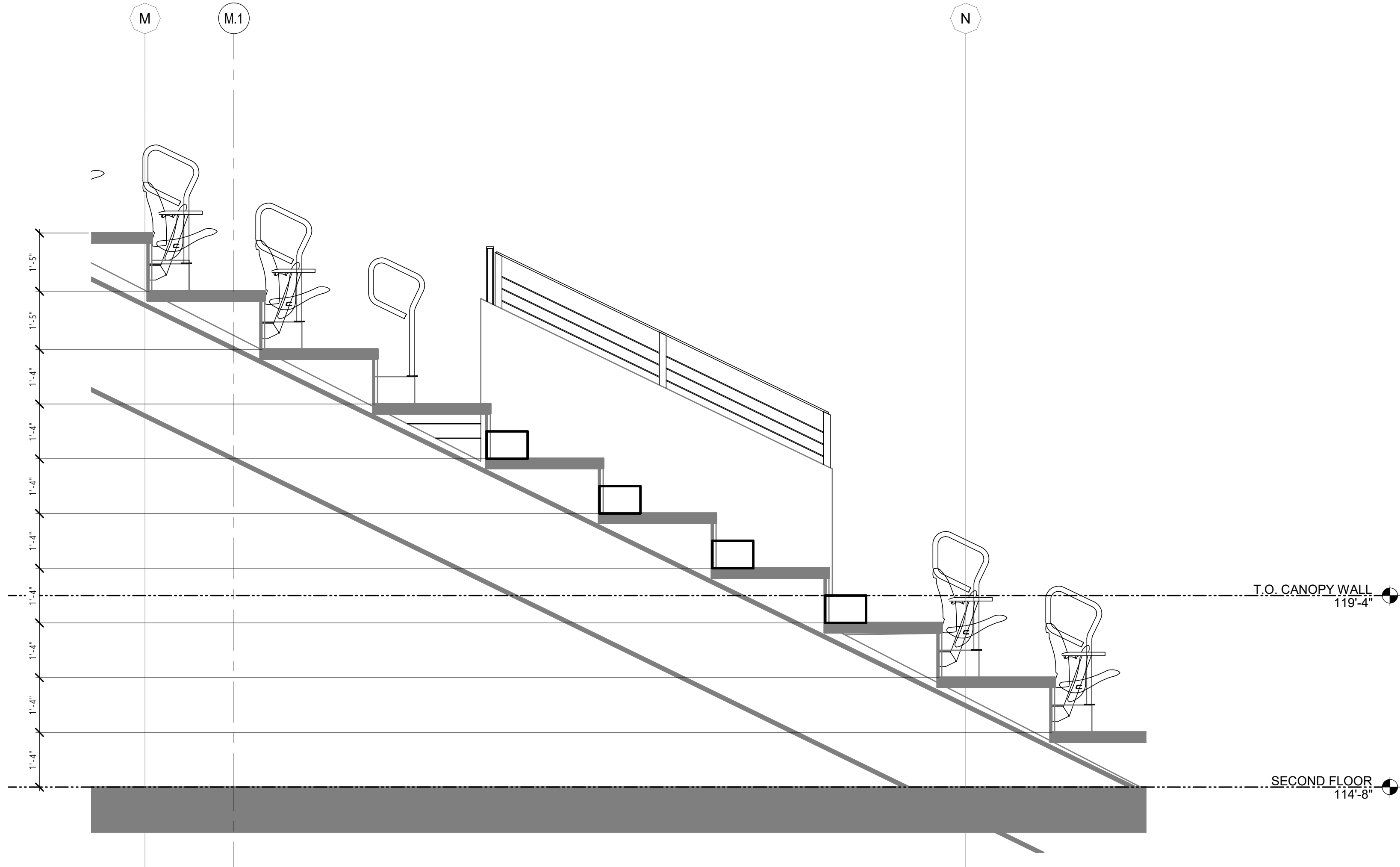


1

A548

VOMITORY - TYPE 8 (EXISTING)

1/2" = 1'-0"

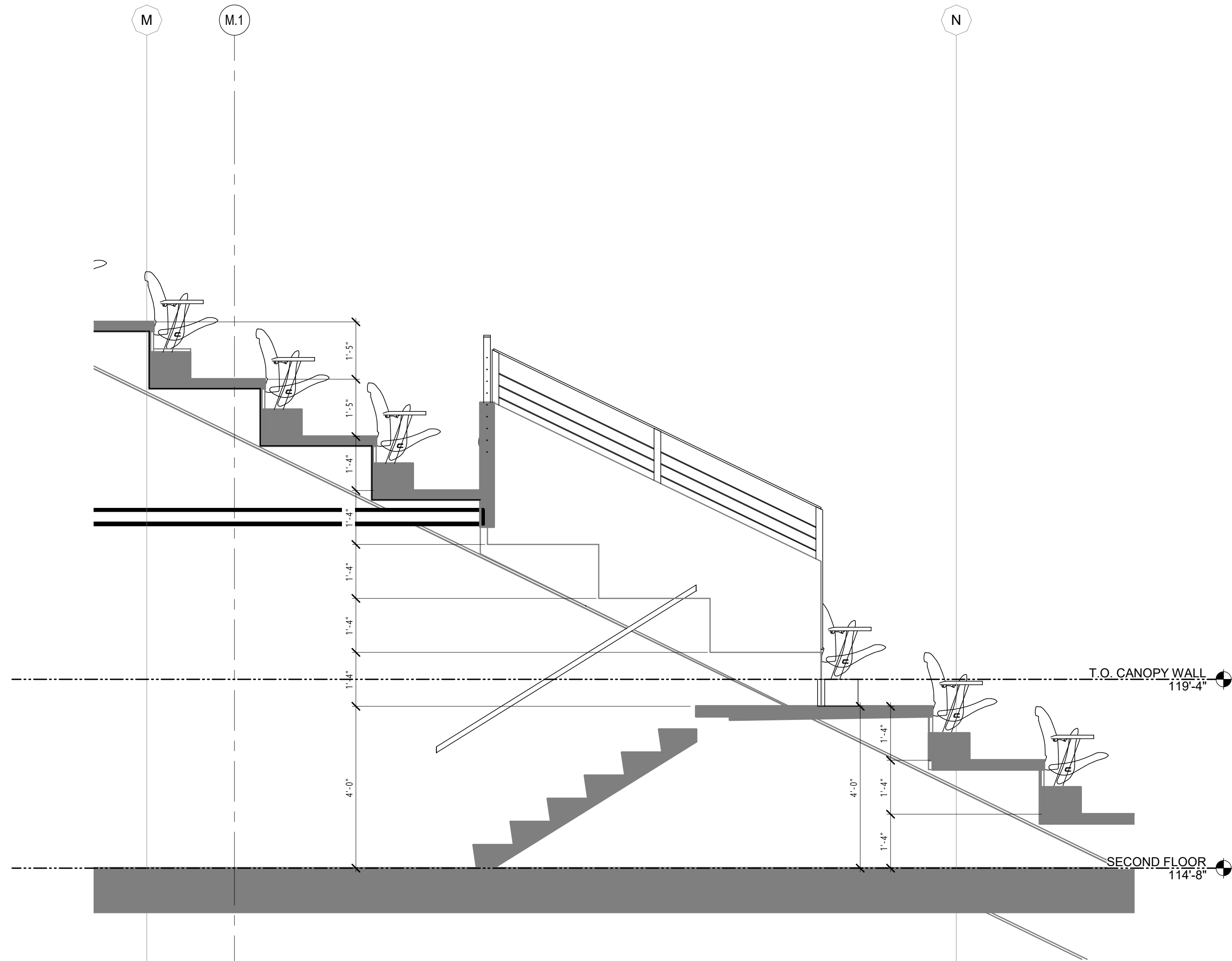


3

A548

SECTION THRU VOMITORY - TYPE 8 (BOWL) EXISTING

1/2" = 1'-0"



2

A548

SECTION THRU VOMITORY - TYPE 8 (EXISTING)

1/2" = 1'-0"



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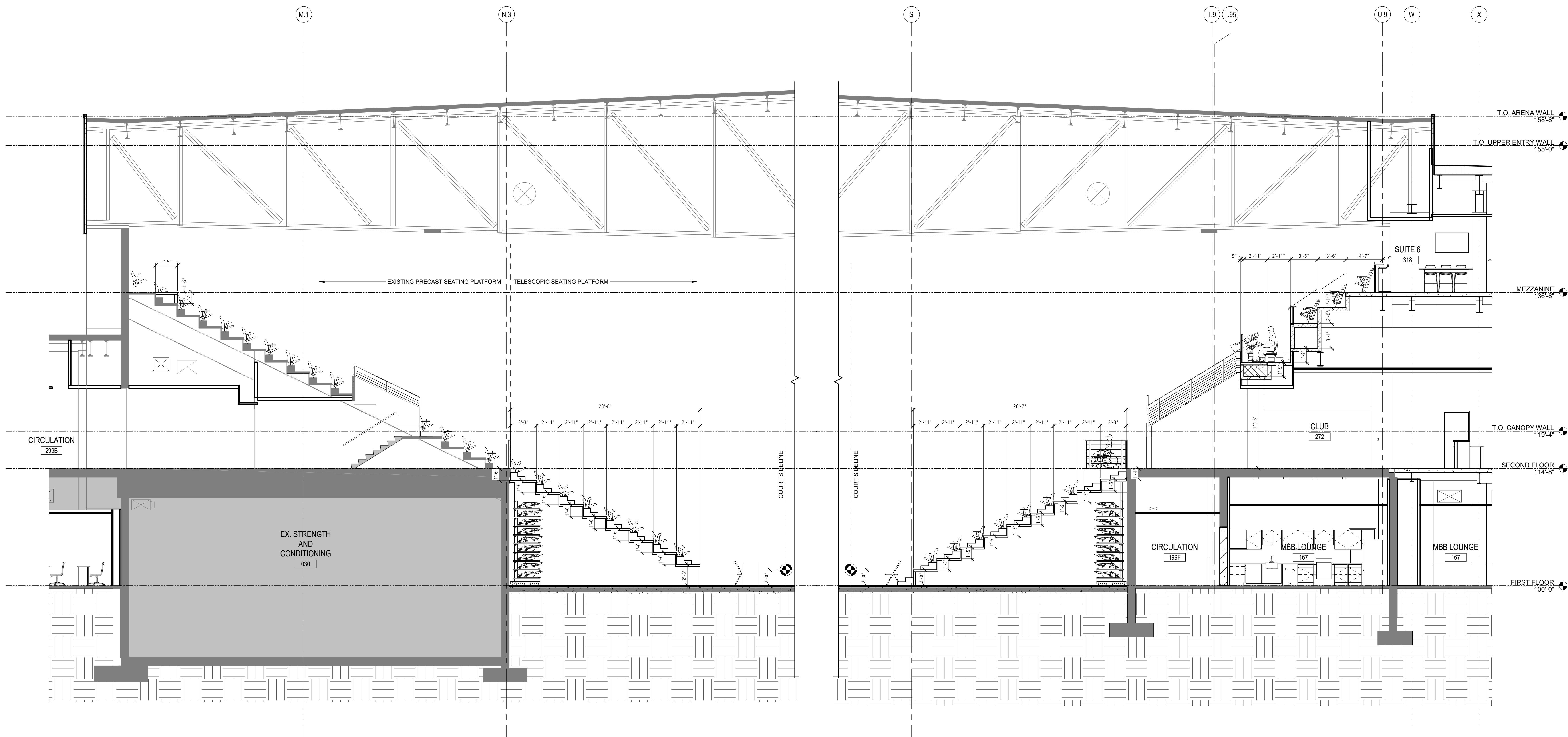
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ARENA ENLARGED
SECTIONS

A551

1 ARENA SECTION N/S @ AISLE ACCESSWAY
A551 3/16" = 1'-0"

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FB&T ARENA AND SJM
ADDITIONS AND
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(OSE# R0319-23X/FBT)
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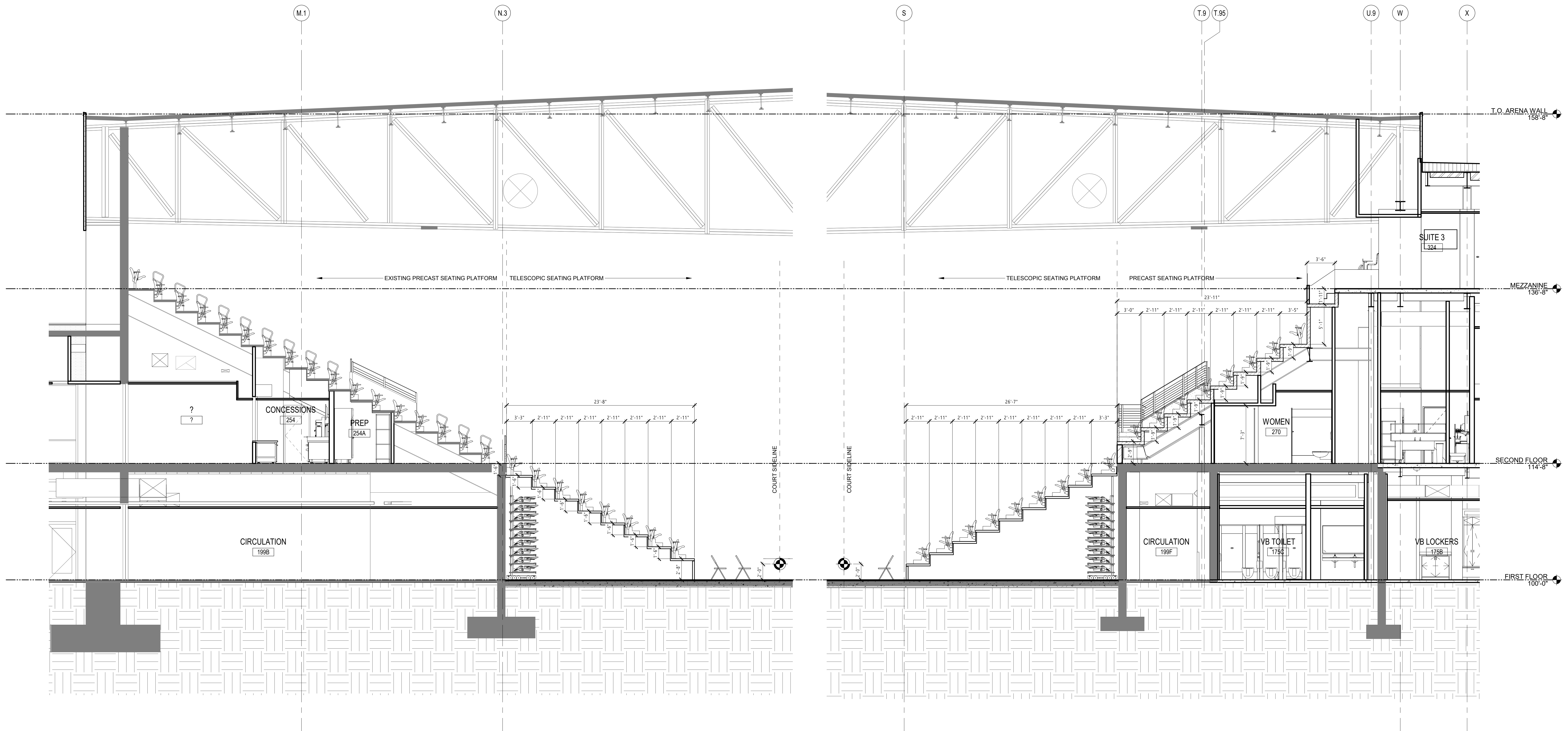
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DRAWING TITLE
ARENA ENLARGED
SECTIONS

A552



2 ARENA SECTION N/S @ PRECAST & TELESCOPIC SEATING
A552 3/16" = 1'-0"

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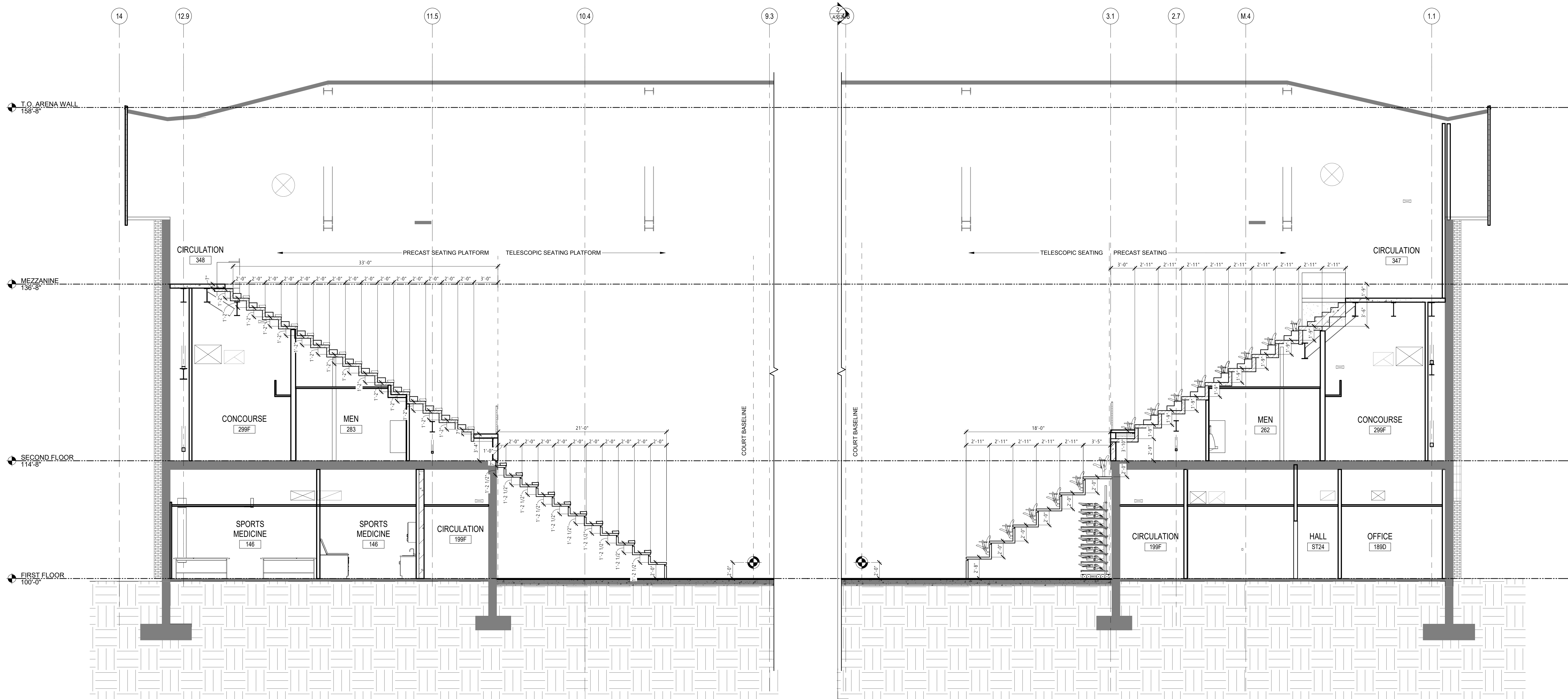
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ARENA ENLARGED
SECTIONS

A553

3 ARENA SECTION E/W @ AISLE ACCESSWAY
A553 3/16" = 1'-0"

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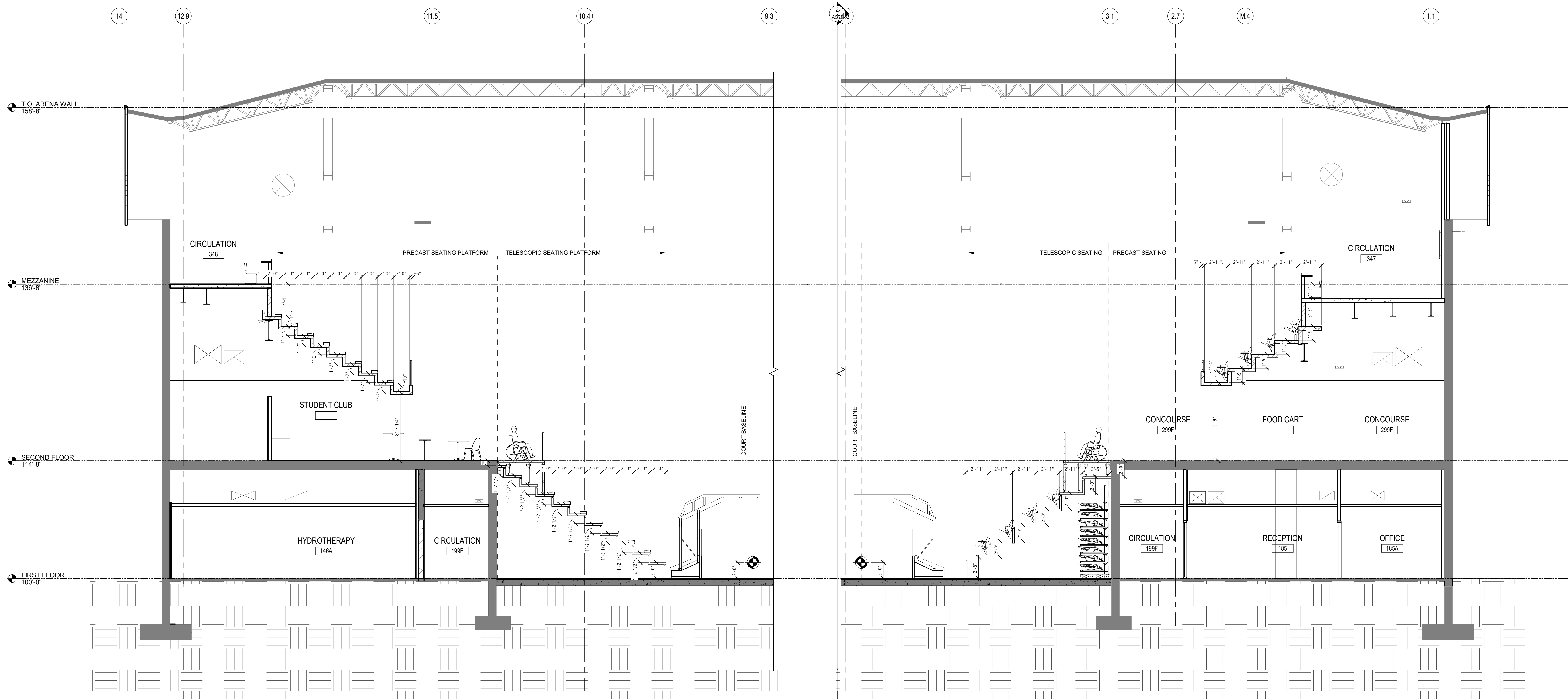
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ARENA ENLARGED
SECTIONS

A554



4 ARENA SECTION E/W @ CENTER OPENING
A554 3/16" = 1'-0"

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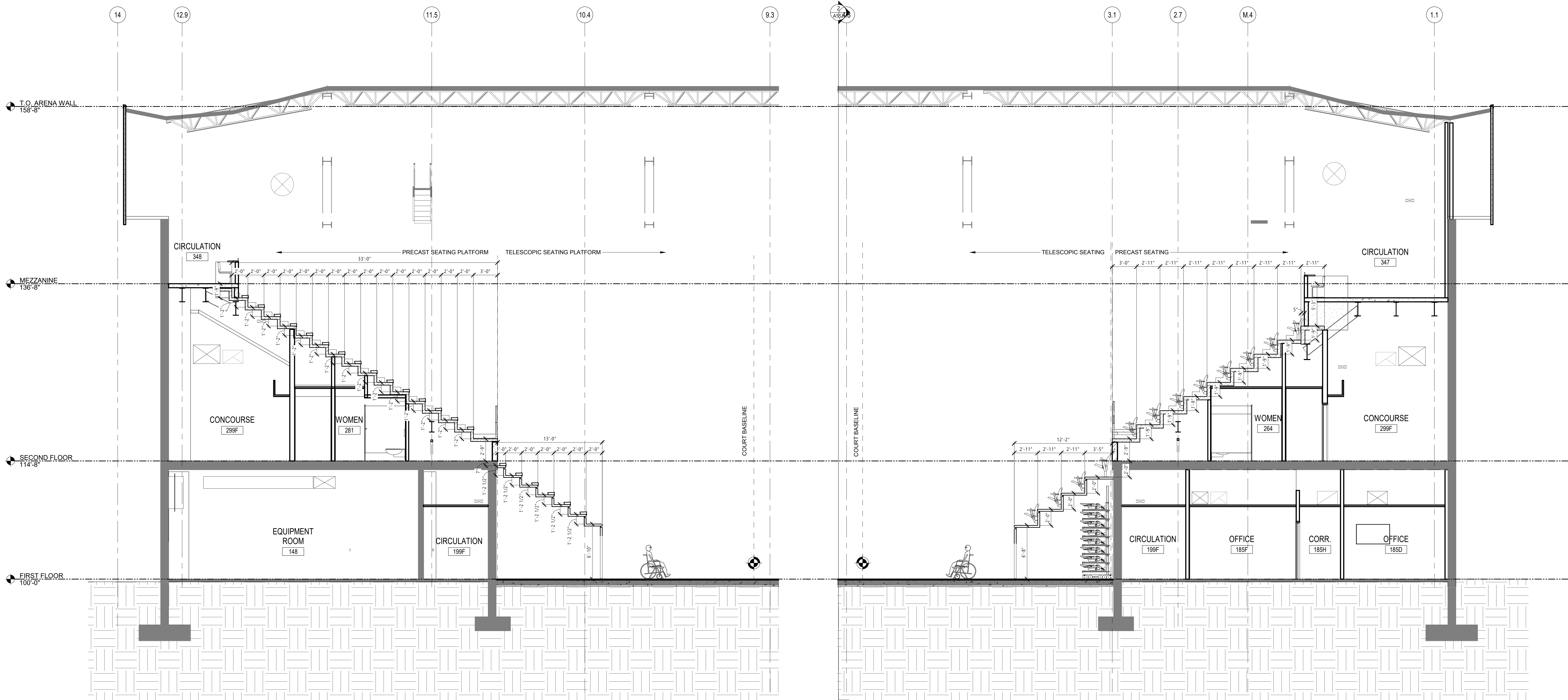
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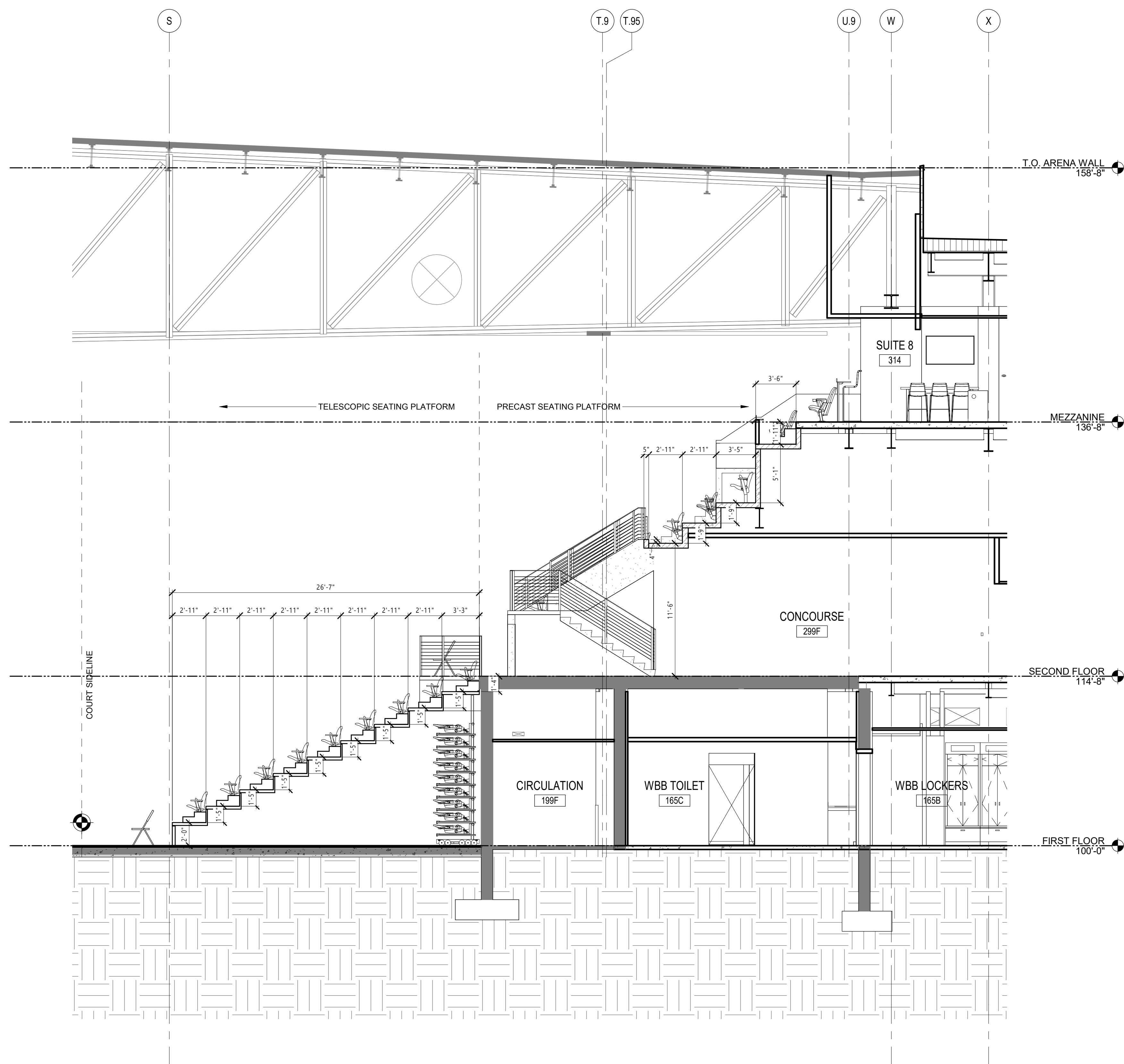
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ARENA ENLARGED
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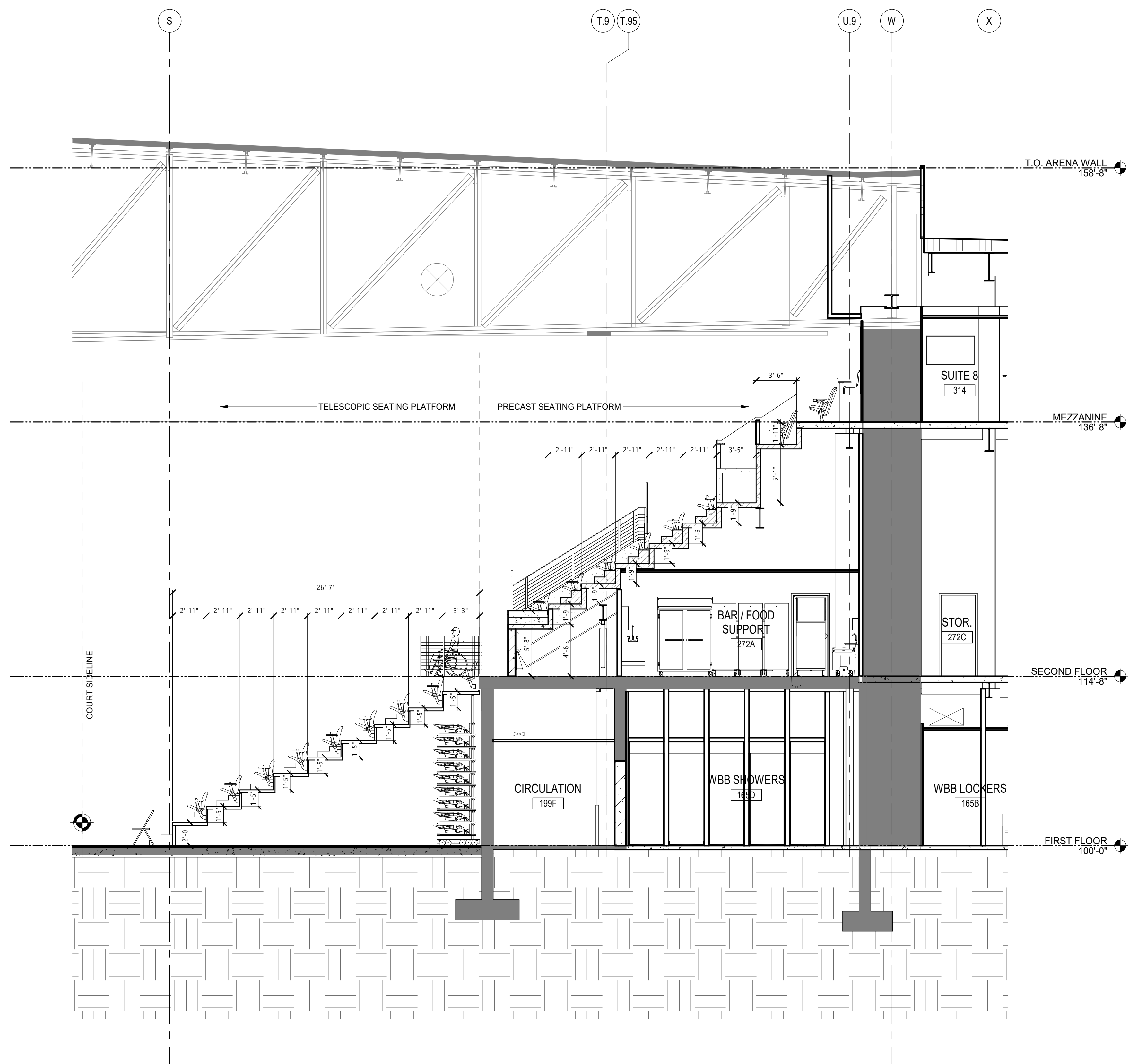
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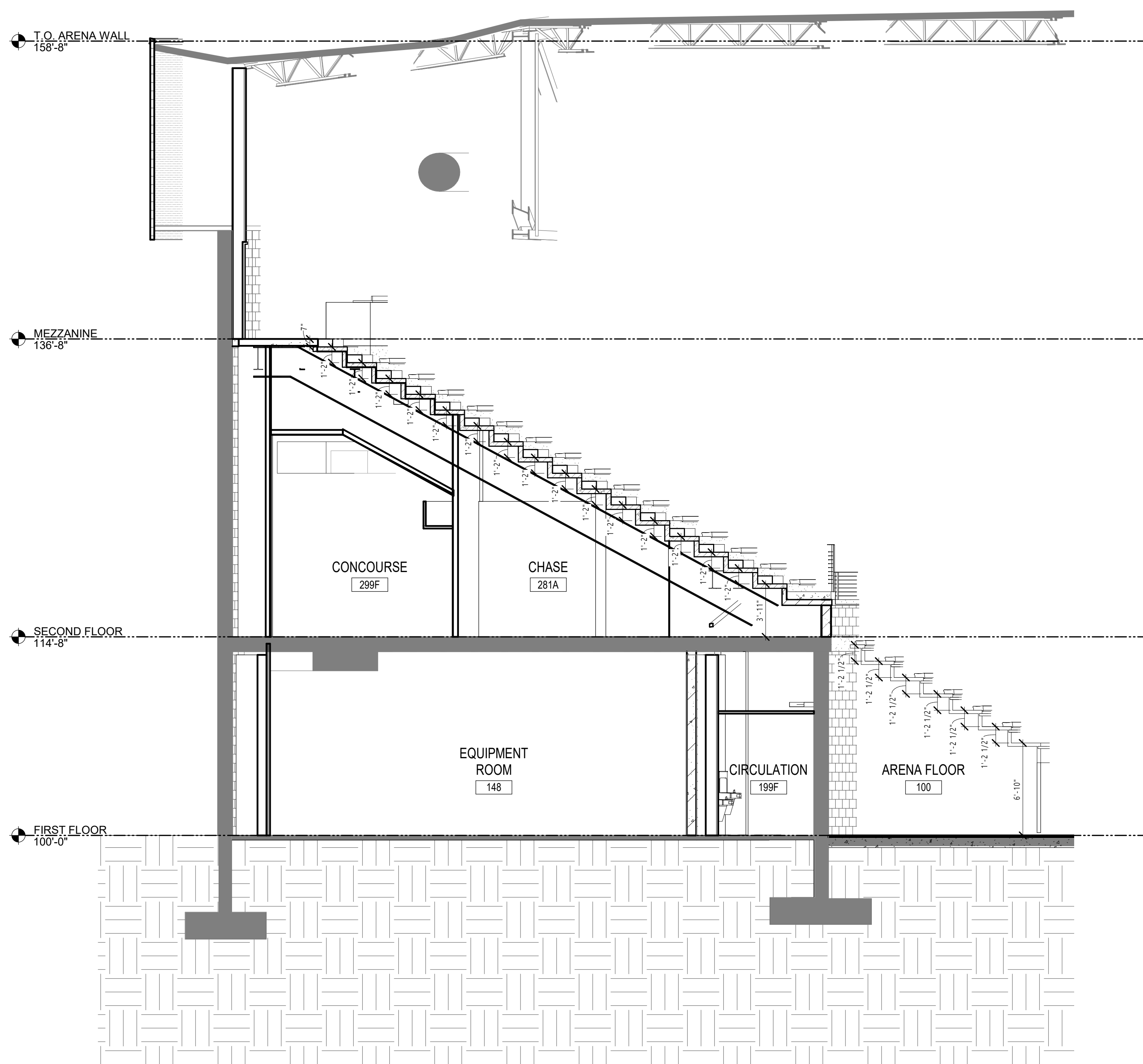
1
A555
ARENA SECTION E/W @ ACCESSIBLE FLOOR SEATS
3/16" = 1'-0"



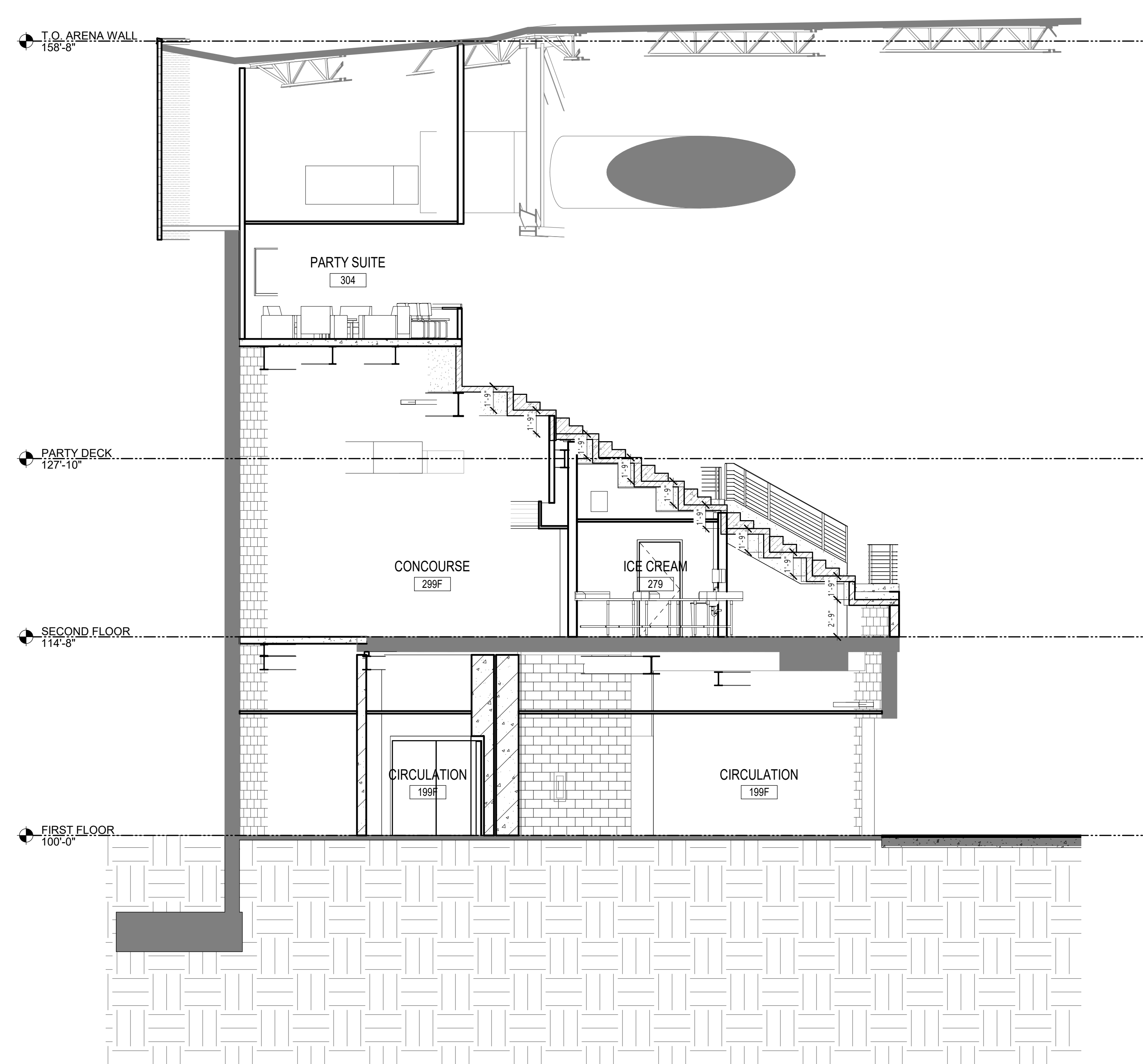
ARENA SECTION S @ TELE. AISLE ACCESSWAY & PRECAST VOMITORY
3/16" = 1'-0"



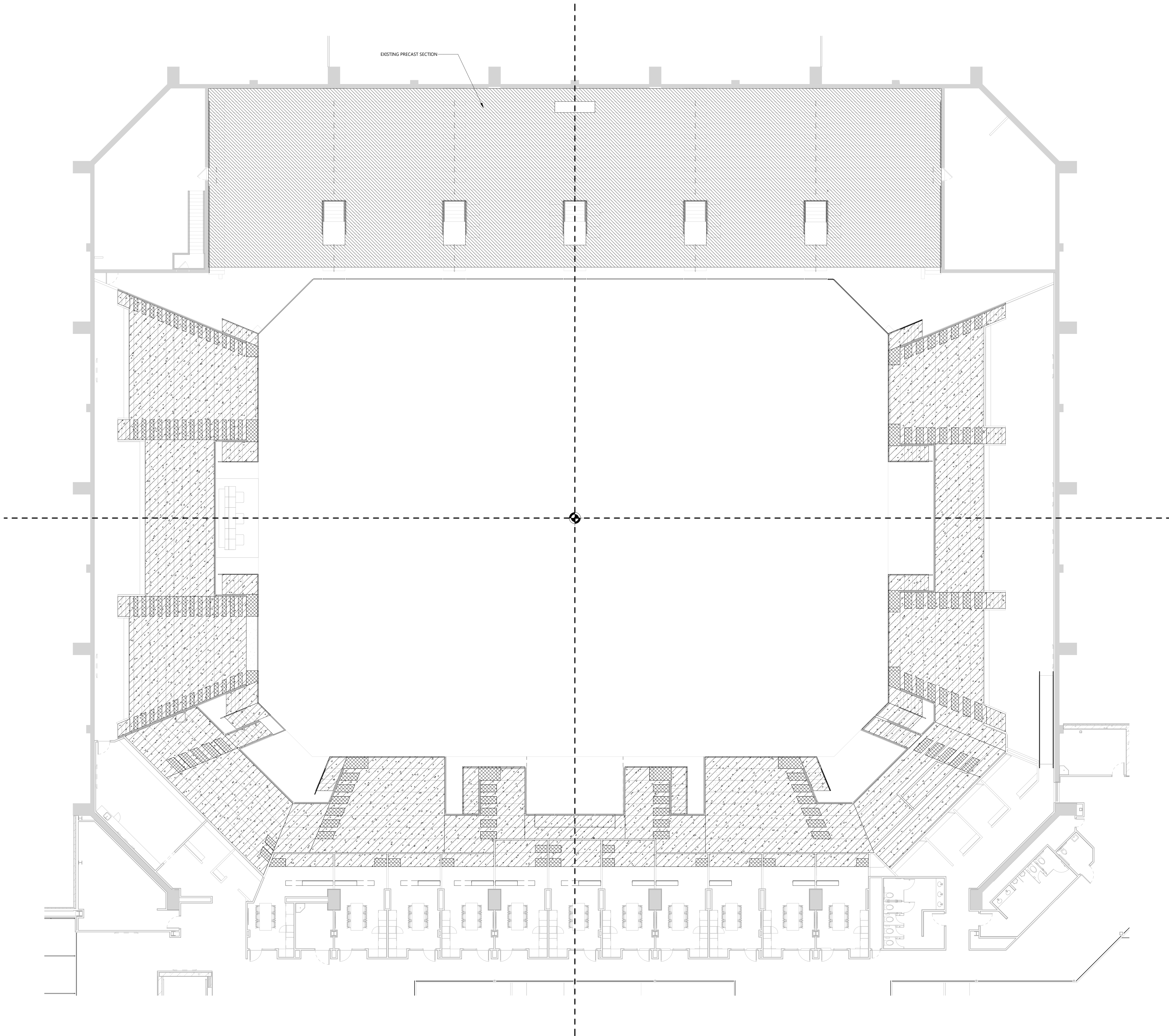
ARENA SECTION S @ TELE. SEATING & PRECAST AISLE ACCESSWAY
3/16" = 1'-0"



9 ARENA SECTION SW CORNER @ BLEACHERS
A557 3/16" = 1'-0"



8 ARENA SECTION SW CORNER @ SEATING
A557 3/16" = 1'-0"



GENERAL CONCRETE DIAGRAM NOTES

1.

ALL DIMENSIONS ARE TO BE FIELD VERIFIED. VERIFY EXISTING CONDITIONS, LENGTHS, AND RAIL SPACING TO EQUAL OUT IN THE FIELD.

2.

REFER TO SHEETS A541 - A548 FOR VOMITORY PLANS AND DETAILS

3.

REFER TO SHEETS A551 - A557 FOR ARENA SECTIONS

4.

DIAGRAM FOR REFERENCE; REFER TO STRUCTURE DRAWINGS FOR DETAILS AND ADDITIONAL INFORMATION

HATCH LEGEND

PRECAST CONCRETE

CAST-IN PLACE CONCRETE

EAPC

Architecture

Engineering

Interior Design

Industrial

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FAX 605.444.1601

101 N. Phillips Ave., Ste. 300, Sioux Falls, SD 57104

www.eapc.net

CONSULTANTS

PERKINS+WILL

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(OSE# R0319-23X/FBT)
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