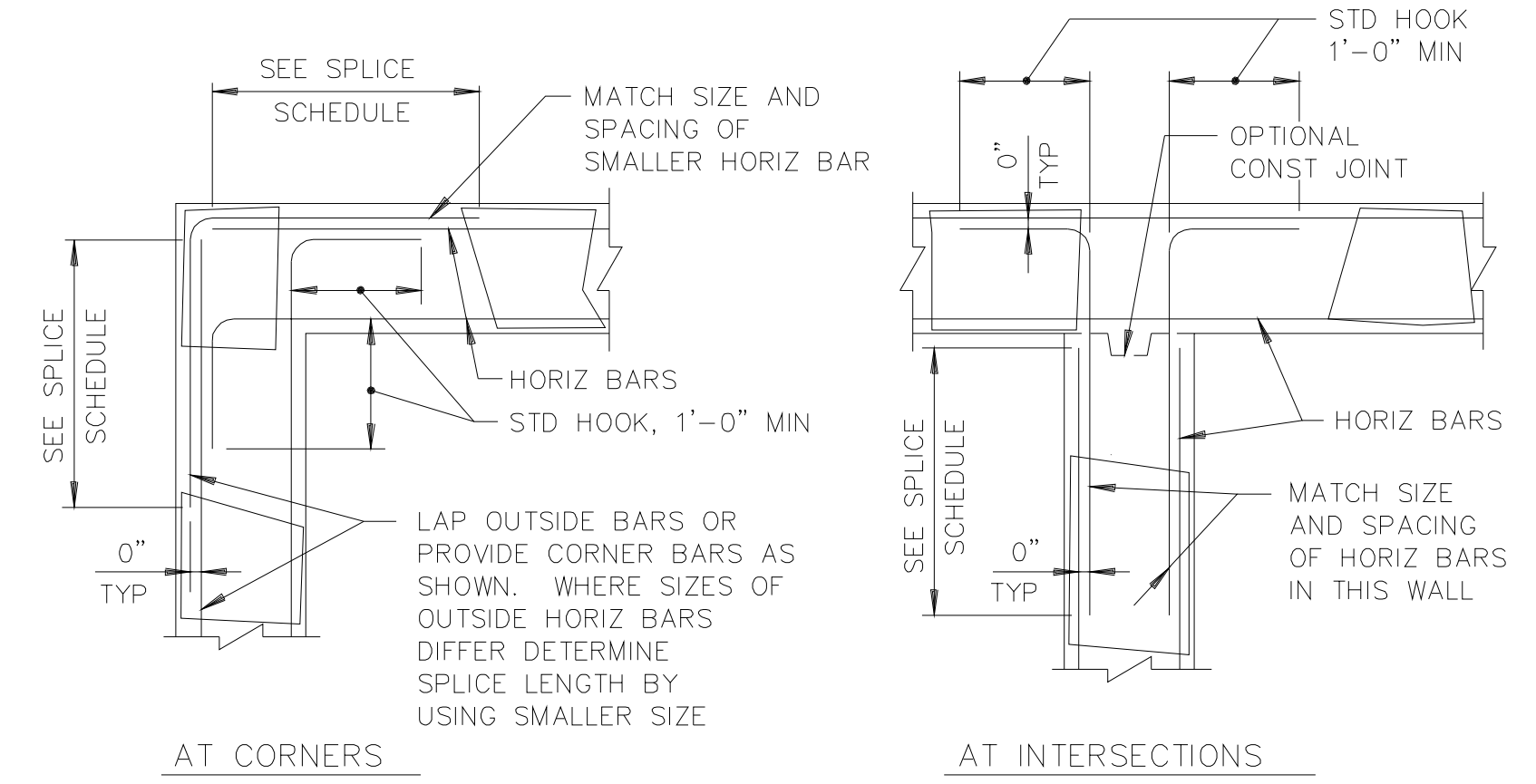


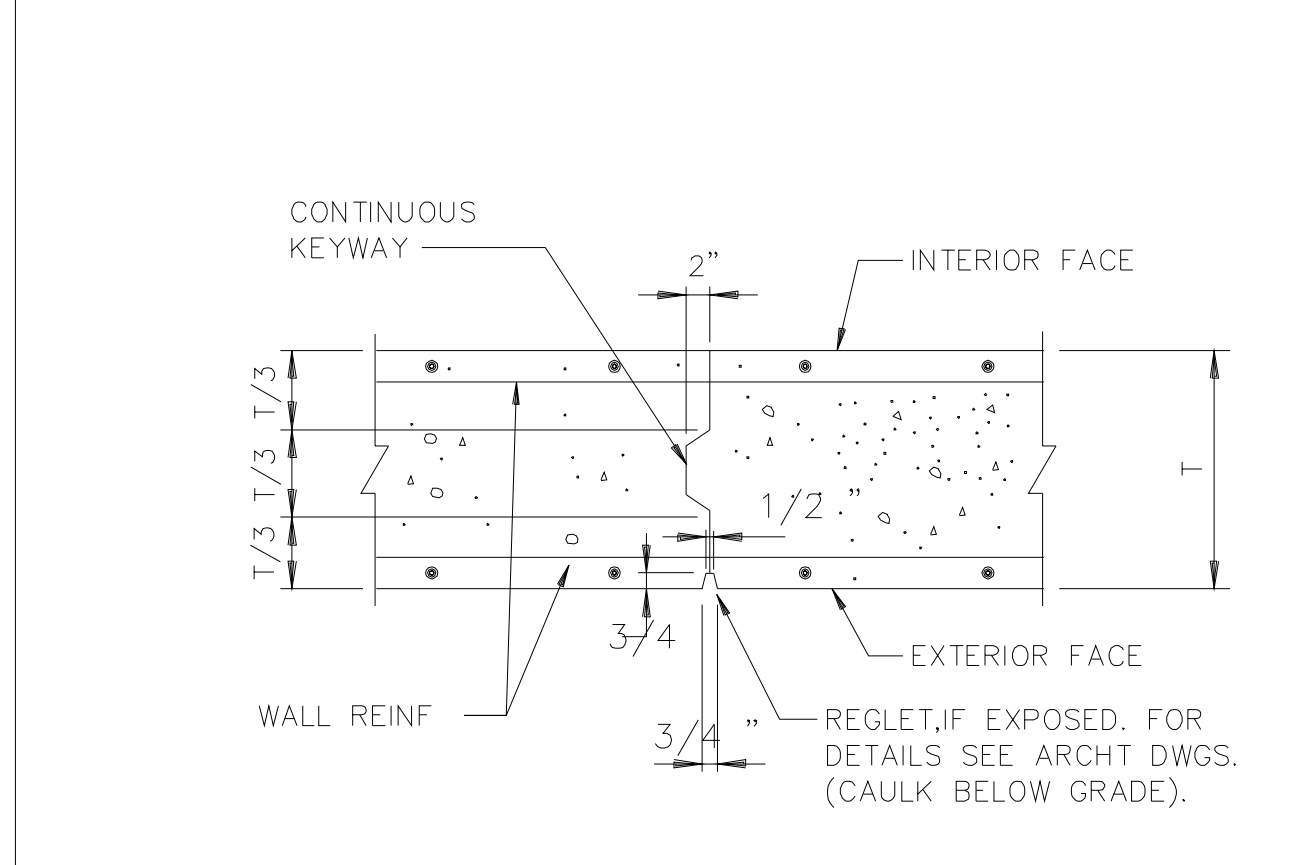
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R	<p><b>A - GENERAL</b></p> <p>A1 STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "BOCA NATIONAL BUILDING CODE", 1999 EDITION.                  EXAMINE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, WASHES, DRIPS, REVEALS, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.</p> <p>A3 VERIFY AND COORDINATE DIMENSIONS RELATED TO THIS PROJECT.                  PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS. LOCATION AND SIZE OF BEAMS AND ANY INSERTS REQUIRED SHALL BE DETERMINED BY THE ELEVATOR MANUFACTURER.</p> <p>A4 OPENINGS IN SLABS AND WALLS LESS THAN 12" MAXIMUM DIMENSION ARE GENERALLY NOT SHOWN ON STRUCTURAL DRAWINGS. OPENINGS SHOWN ON STRUCTURAL DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT. TYPICAL DETAILS AND NOTES SHOWN ON STRUCTURAL DRAWINGS SDO1 THRU SDO3 SHALL BE APPLICABLE TO ALL PARTS OF THE STRUCTURAL WORK EXCEPT WHERE SPECIFICALLY REQUIRED OTHERWISE BY CONTRACT DOCUMENTS.</p> <p>A6 THE CONTRACTOR IS TO SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE. NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT.</p>																		
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O																			
N	<p><b>B - FOUNDATIONS</b></p> <p>B1 FOUNDATIONS FOR THIS PROJECT CONSIST OF SPREAD FOOTINGS ON UNDISTURBED SOIL/ROCK OR COMPACTED CONTROLLED GRANULAR FILL WITH ALLOWABLE BEARING PRESSURE OF 2.0 TONS PER SQUARE FOOT.</p> <p>B2 NO RESPONSIBILITY IS ASSUMED BY THE ARCHITECT FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED ON THE DRAWINGS, SPECIFICATIONS, TEST BORINGS, OR TEST PITS. THESE DATA ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE PARTICULAR TIME THEY WERE MADE.</p> <p>B3 FOUNDATION UNITS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.</p> <p>B4 EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN BELOW FINISHED EXTERIOR GRADE TO A MINIMUM DEPTH OF 4'-6", UNLESS NOTED OTHERWISE.</p> <p>B5 PROVIDE TEMPORARY OR PERMANENT SUPPORTS, WHETHER SHORING, SHEETING, OR BRACING, SO THAT NO HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OCCURS TO EXISTING STRUCTURES, STREETS, OR UTILITIES ADJACENT TO THE PROJECT SITE.</p> <p>B6 CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS DONE IN DRY AND ON UNDISTURBED SUBGRADE MATERIAL, AS APPLICABLE.</p> <p>B7 CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER UNTIL SUFFICIENT DEAD LOAD HAS ACCUMULATED TO PREVENT FLOTATION OF ANY PART OF THE STRUCTURE, INCLUDING ELEVATOR PITS(S).</p> <p>B8 BACKFILL UNDER ANY PORTION OF THE STRUCTURE SHALL BE COMPACTED IN 6" LIFTS PER SPECIFICATIONS REQUIREMENTS.</p> <p>B9 NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL.</p> <p>B10 PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETED.</p> <p>B11 DO NOT BACKFILL BEHIND FOUNDATION WALLS UNTIL PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS IN PLACE AND OF FULL STRENGTH.</p> <p>B12 SHEETING, SHORING AND BRACING FOR THE LATERAL SUPPORT OF EXCAVATION SHALL REMAIN IN PLACE UNTIL ALL PERMANENT STRUCTURAL SYSTEMS BELOW GROUND LEVEL ARE COMPLETE. FOR FURTHER INFORMATION ON LATERAL SUPPORT OF EXCAVATION SEE EARTHWORK SPECIFICATIONS.</p>																		
M																			
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K																			
J	<p><b>C - CONCRETE</b></p> <p>C1 CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-95)," AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-95)." CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED, AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.</p> <p>C3 UNLESS NOTED OTHERWISE, CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH AND BE OF A TYPE AS FOLLOWS:                  (A) SLAB ON GRADE ..... 4000 PSI (NORMALWEIGHT)                  (B) BASEMENT WALLS ..... 4000 PSI (NORMALWEIGHT)                  (C) CONCRETE ON STEEL DECK ..... 4000 PSI (LIGHTWEIGHT)                  (D) FOOTINGS AND OTHER CONCRETE ..... 3000 PSI (NORMALWEIGHT)</p> <p>C4 CONCRETE TO BE EXPOSED TO FREEZING TEMPERATURES IN THE FINISHED PROJECT SHALL BE AIR ENTRAINED PER SPECIFICATIONS REQUIREMENTS.</p> <p>C5 PROVIDE VAPOR BARRIER UNDER INTERIOR SLABS CAST ON GRADE.</p> <p>C6 CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE ARCHITECT.</p> <p>C7 WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.</p> <p>C8 SIZE OF CONCRETE PLACEMENTS UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th></th> <th>MAX LENGTH (FEET)</th> <th>MAX AREA (SQ FT)</th> </tr> </thead> <tbody> <tr> <td>(A) FOOTINGS AND WALLS</td> <td>30*</td> <td>-</td> </tr> <tr> <td>(B) SLABS ON GRADE</td> <td>30*</td> <td>-</td> </tr> <tr> <td>(C) CONCRETE ON STEEL DECK</td> <td>90</td> <td>8100</td> </tr> </tbody> </table> <p>* EXCEED ONLY WHERE INTERMEDIATE CONTROL JOINTS ARE PROVIDED</p> <p>C9 MINIMUM OF 72 HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.</p> <p>C10 CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE WORK SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR.</p> <p>C11 CONCRETE SLABS, INCLUDING CONCRETE PLACED ON STEEL DECK, SHALL BE PLACED SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS. (THIS WILL REQUIRE THAT THE SLAB NOT BE CAST DEAD LEVEL WHERE SUPPORTING BEAMS OR GIRDERS HAVE AN UPWARD CAMBER.)</p> <p>C12 STRUCTURAL STEEL BELOW GRADE SHALL BE ENCASED IN CONCRETE WITH A MINIMUM COVER OF 2".</p>								MAX LENGTH (FEET)	MAX AREA (SQ FT)	(A) FOOTINGS AND WALLS	30*	-	(B) SLABS ON GRADE	30*	-	(C) CONCRETE ON STEEL DECK	90	8100
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(C) CONCRETE ON STEEL DECK	90	8100																	
G																			
F																			
E	<p><b>D - REINFORCEMENT</b></p> <p>D1 REINFORCEMENT WORK OF DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-95)," "ACI DETAILING MANUAL-1988 (SP-66)," "CRSI MANUAL OF STANDARD PRACTICE (MSP 1-90)," AND "STRUCTURAL WELDING CODE - REINFORCING STEEL (AWS D1.4-92)." STEEL REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL CONFORM TO THE FOLLOWING:                  (A) BARS, TIES, AND STIRRUPS ..... ASTM A615 GRADE 60 (YIELD STRESS 60,000 PSI)                  (B) WELDED WIRE FABRIC (WWF) ..... ASTM A185</p> <p>D3 PROVIDE AND SCHEDULE ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION. MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" O.C. WITH CONTINUOUS #5 SUPPORT BAR; SLAB BOLSTERS, CONTINUOUS AND 3'-6" O.C.; BEAM BOLSTERS, 5'-0" O.C.</p> <p>D4 MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:                  (A) UNFORMED SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH ..... 3.0"                  (B) FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER                  #6 THROUGH #11 BARS ..... 2.0"                  #5 BARS, 5/8" DIAMETER WIRE, AND SMALLER ..... 1.5"</p> <p>(C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER                  WALLS AND SLABS                  #11 BARS AND SMALLER ..... 1.0"</p> <p>BEAMS, GIRDERS, AND COLUMNS:                  PRINCIPAL REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS ..... 1.5"</p> <p>D5 WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR IT SHALL BE EXTENDED CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICES, UNLESS NOTED OTHERWISE.</p> <p>D6 WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.</p> <p>D7 REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.</p> <p>D8 DOWELS SHALL MATCH BAR SIZE AND NUMBER, UNLESS NOTED OTHERWISE.</p> <p>D9 WELDED WIRE FABRIC SHALL LAP 8" OR 1-1/2 SPACES, WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.</p> <p>D10 REINFORCEMENT SHALL NOT BE TACK WELDED.</p> <p>D11 INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.</p>																		

	8	9	10	11	12	13	14
R	<p><b>E - STRUCTURAL STEEL</b></p> <p>E1 STRUCTURAL STEEL WORK SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 1989);" "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS &amp; BRIDGES (AISC 1992);" AND "STRUCTURAL WELDING CODE - STEEL (AWS D1.1-96)"</p> <p>E2 STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH "DETAILING FOR STEEL CONSTRUCTION (AISC)" AND, WHERE REQUIRED, DESIGNED IN ACCORDANCE WITH THE CITED REFERENCES.</p> <p>E3 STRUCTURAL STEEL DETAILS NOT SPECIFICALLY SHOWN SHALL BE TAKEN AS BEING SIMILAR TO THOSE SHOWN FOR THE MOST NEARLY SIMILAR CONDITION AS DETERMINED BY THE ARCHITECT.</p> <p>E4 STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:                  (A) WIDE FLANGE SHAPES ..... ASTM A572 GRADE 50 (Fy = 50 KSI)                  (B) ANGLES, CHANNELS AND PLATES ..... ASTM A36 (Fy = 36 KSI)                  (C) HOLLOW STRUCTURAL SECTIONS (HSS) ..... ASTM A500, ROUND- GRADE C (Fy=46 KSI)                  (D) ANCHOR BOLTS ..... ASTM A307 UNO                  (E) HIGH STRENGTH BOLTS ..... ASTM A325</p> <p>E5 ANCHOR BOLTS OR BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRESET BY TEMPLATES OR SIMILAR METHODS. PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT.</p> <p>E6 BOLTED CONNECTIONS SHALL BE AS FOLLOWS:                  (A) MINIMUM BOLT DIAMETER - 3/4", TWO BOLTS MINIMUM.                  (B) STANDARD, OVERSIZED, OR HORIZONTAL SHORT SLOTTED HOLES IN WEBS OF BEAMS.                  (C) SHEAR CONNECTIONS FOR MOMENT CONNECTED MEMBERS - FRICTION TYPE HIGH STRENGTH BOLTS IN SINGLE SHEAR.                  (D) SHEAR CONNECTIONS FOR OTHER MEMBERS - SIMPLE SHEAR CONNECTIONS WITH EITHER FRICTION TYPE HIGH STRENGTH BOLTS IN SINGLE SHEAR OR BEARING TYPE HIGH STRENGTH BOLTS (THREADS INCLUDED IN SHEAR PLANE) IN SINGLE OR DOUBLE SHEAR.                  (E) SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER AISC REQUIREMENTS FOR "UNRESTRAINED MEMBERS."</p> <p>E7 WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS USING FILLER METAL CONFORMING TO E70XX OR F7X-EXXX WITH LOW HYDROGEN.</p> <p>E8 WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED, UNLESS NOTED OTHERWISE, EXCEPT THAT FILLET WELDS SHALL BE A MINIMUM OF 1/4".</p> <p>E9 BEAM CONNECTIONS: DESIGN CONNECTION FOR REACTIONS SHOWN ON PLAN, WHERE NO REACTION IS GIVEN IT IS LESS THAN 8 KIPS.</p> <p>E10 ENDS OF BEAMS AT SPICES SHALL BE SHORING CONNECTIONS SHALL BE "FINISHED TO BEAR" TO COMPLETE TRUE BEARING.</p> <p>E11 PROVIDE STIFFENERS "FINISHED TO BEAR" UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS, OVER COLUMNS, AND WHERE SHOWN ON DRAWINGS.</p> <p>E12 PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND CONCRETE FOR FLOOR SLABS HAVE ATTAINED 75% OF SPECIFIED CONCRETE STRENGTH.</p> <p>E13 STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.</p> <p>E14 FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY ARCHITECT FOR EACH SPECIFIC CASE.</p> <p>E15 STRUCTURAL STEEL SHALL BE FIREPROOFED PER SPECIFICATIONS.</p> <p>E16 STRUCTURAL STEEL MEMBERS AND CONNECTIONS EXPOSED TO THE WEATHER SHALL BE GALVANIZED, EXCEPT PEDESTRIAN BRIDGE WHICH IS TO BE PAINTED, SEE SPECIFICATIONS.</p> <p>E17 CAMBER SHALL BE BY COLD-FORMED PROCESS IN CONFORMANCE WITH AISC SPECIFICATION AND TOLERANCE.</p>						
P							
O							
N	<p><b>F - STEEL DECK AND SHEAR CONNECTOR</b></p> <p>F1 STEEL DECK AND SHEAR CONNECTOR WORK SHALL CONFORM TO THE "SPECIFICATION FOR DESIGN OF LIGHT GAGE COLD-FORMED STEEL STRUCTURAL MEMBERS (AIS);;" "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 1993);;" "STRUCTURAL WELDING CODE - STEEL (AWS D1.1-96);;" AND "STRUCTURAL WELDING CODE - SHEET STEEL (AWS D1.3-89)."</p> <p>F2 STEEL DECK CROSS SECTIONS ARE ONLY REPRESENTED DIAGRAMMATICALLY ON THE DRAWINGS.</p> <p>F3 STEEL DECK PANELS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653, GRADE 33, WITH A MINIMUM YIELD POINT OF 33,000 PSI, ASTM A570 (UNGLAV.) GRADE 33, OR ASTM A611 (UNGLAV.), GRADE C, WITH A MINIMUM YIELD POINT OF 33,000 PSI AND A THICKNESS NOT THINNER THAN 20 GAGE.</p> <p>F4 FLOOR AND ROOF CONSTRUCTION IN GENERAL CONSISTS OF CONCRETE FILL CAST ON STEEL DECK AND COMPOSITE IN ACTION WITH THE STRUCTURAL STEEL BEAMS BY MEANS OF WELDED SHEAR CONNECTORS.</p> <p>F5 SHEAR CONNECTORS SHALL CONFORM TO ASTM A108, GRADES 1010, 1015, 1017, OR 1020. TYPICALLY SHEAR CONNECTORS SHALL BE 3/4" DIAMETER X 4" LONG HEADED STUDS UNO, BUT IN NO CASE SHALL SHEAR CONNECTORS EXTEND LESS THAN 1-1/2" ABOVE STEEL DECK.</p> <p>F6 THE NUMBER OF SHEAR CONNECTORS REQUIRED PER BEAM IS INDICATED BY "+32", ETC. ON THE DRAWINGS (SEE BEAM EXPLANATION DIAGRAM ON DRAWING SDO.3) WHERE NO SHEAR CONNECTORS ARE INDICATED FOR A BEAM WHICH SUPPORTS A CONCRETE SLAB PROVIDE SHEAR CONNECTORS AT 24" O.C.</p> <p>F7 SHEAR CONNECTORS SHALL BE EQUALLY SPACED OVER THE LENGTH OF THE BEAM, WHERE THE NUMBER OF STEEL DECK CORRUGATIONS AVAILABLE IS LESS THAN THE NUMBER OF SHEAR CONNECTORS, USE PAIRS OF SHEAR CONNECTORS STARTING FROM EACH END OF BEAM AND CONTINUING TOWARD THE CENTER UNTIL IT IS POSSIBLE TO RETURN TO A SINGLE SHEAR CONNECTOR IN EACH CORRUGATION. SHEAR CONNECTORS SHALL BE SPACED NOT CLOSER THAN 3" TRANSVERSELY AND 4" LONGITUDINALLY.</p> <p>F8 HORIZONTAL CLEARANCE SHALL BE A MINIMUM OF 1" FROM THE EDGE OF ANY SHEAR CONNECTOR TO THE FACE OF CONCRETE, STEEL DECK RIB, OR SIMILAR ADJACENCY.</p> <p>F9 EDGE DISTANCE FROM THE CENTER OF A SHEAR CONNECTOR TO THE EDGE OF A STRUCTURAL STEEL BEAM SHALL PREFERABLY BE 2", BUT IN NO CASE LESS THAN 1-1/4".</p>						
M							
L							
K							
J	<p><b>G - STEEL JOISTS</b></p> <p>G1 OPEN WEB JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE.</p> <p>G2 JOISTS SHALL BE DESIGNED IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS, AND SHALL BE FABRICATED BY A MANUFACTURER WHO IS A MEMBER OF OR MEETS THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE.</p> <p>G3 FOR PAINTING REQUIREMENTS SEE SPECIFICATIONS.</p> <p>G4 ROOF JOISTS SHALL BE DESIGNED AND ANCHORED TO RESIST A MINIMUM NET UPLIFT OF 35 PSF. BRACE BOTTOM CHORD FOR COMPRESSION STRESSES.</p> <p>G5 PROVIDE CEILING EXTENSIONS ON ALL JOISTS.</p> <p>G6 PROVIDE CROSS-BRIDGING IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL JOIST INSTITUTE OR AS SHOWN ON PLAN.</p> <p>G7 PROVIDE SEAT ANGLE CONNECTION WHERE JOISTS FRAME INTO COLUMNS.</p> <p>G8 SUSPENDED LOADS SHALL BE APPLIED ONLY AT PANEL POINTS OF JOISTS. ALL NECESSARY SUPPLEMENTAL FRAMING SHALL BE PROVIDED BY THE CONTRACTOR RESPONSIBLE FOR THE SUSPENDED LOAD.</p> <p>G9 DESIGN OF JOISTS SHALL BE BASED ON AN ALLOWABLE FIBER STRESS OF 30,000 PSI.</p> <p>G10 EACH JOIST BEARING ON STEEL SHALL BE WELDED OR BOLTED THERETO. ALL JOIST SEATS SHALL BEAR FULLY ON SUPPORTING BEAMS.</p> <p>G11 END JOISTS SHALL BE ANCHORED TO BEAM AT TOP AND BOTTOM CHORDS WITH LATERAL ANCHORS NOT OVER 4'-0" OC AS WELL AS AT ENDS OF BRIDGING LINES.</p> <p>G12 FOR ATTACHMENTS TO JOIST, FIELD WELDS SHALL BE MADE PARALLEL TO THE LENGTH OF CHORD, NOT ACROSS THE CHORD. NO HOLES ARE TO BE DRILLED IN THE MEMBERS OF THE JOIST.</p> <p>G13 JOISTS SHALL RECEIVE ONE SHOP COAT OF PAINT STANDARD WITH MANUFACTURER.</p> <p>G14 LH-JOISTS SHALL HAVE A MINIMUM BEARING OF 4" ON STEEL AND MUST PROJECT AT LEAST 1" BEYOND WEB OF BEAM.</p> <p>G15 K-JOISTS SHALL HAVE A MINIMUM BEARING OF 2-1/2" ON STEEL AND MUST PROJECT AT LEAST 1" BEYOND WEB OF BEAM.</p> <p>G16 STEEL DECK AND TOP CHORD OF STEEL JOISTS SHALL EXTEND BEYOND CENTERLINE OF SPANDREL BEAMS, TYPICAL AT ROOF. SEE DRAWINGS FOR DETAILS.</p> <p>G17 OUTRIGGERS AND CEILING EXTENSIONS SHALL BE FURNISHED AS REQUIRED.</p> <p>G18 SPECIAL JOIST SEATS SHALL BE PROVIDED AS REQUIRED.</p> <p>G19 JOIST MANUFACTURER SHALL PROVIDE CONNECTIONS FOR CROSS BRACING WHERE REQUIRED.</p> <p>G20 THE CONTRACTOR SHALL SUBMIT CHECKED SHOP DRAWINGS SHOWING THE LOCATION OF ALL JOISTS AND THE REQUIRED DETAILS FOR PROPER INSTALLATION.</p>						
G							
F							
E	<p><b>H - STRUCTURAL DESIGN LOADS</b></p> <p>H1 DEAD LOADS                  (A) WEIGHT OF PERMANENT BUILDING COMPONENTS ..... AS REQUIRED                  (B) TYPICAL OFFICE FLOOR PARTITIONS ALLOWANCE ..... 20 PSF</p> <p>H2 LIVE LOADS                  (A) OFFICES ..... 80 PSF                  (B) MECHANICAL FIFTHOUSES ..... 150 PSF OR EQUIV WT                  (C) ROOF SNOW LOAD ..... 50 PSF PLUS DRIFT</p> <p>H3 WIND LOAD - PER BOCA, SECTION 1609, EXPOSURE B, WIND SPEED 90 MPH, IMPORTANCE FACTOR 1.23                  (A) 0'-50' ABOVE GRADE ..... 30 PSF                  (B) EARTHQUAKE LOAD - PER BOCA, SECTION 1610; SEISMIC HAZARD EXPOSURE GROUP II; SEISMIC PERFORMANCE CATEGORY B:                  (A) V = CsW; Cs = 1.2Avs/RT 2/3 Av = 0.10; C = 4.5; S = 1.5;                  R = 5 (CONCENTRIC BRACED FRAMES)                  W = DEAD LOAD OF STRUCTURE INCLUDING PARTITIONS AND 50% SNOW LOAD.</p>						

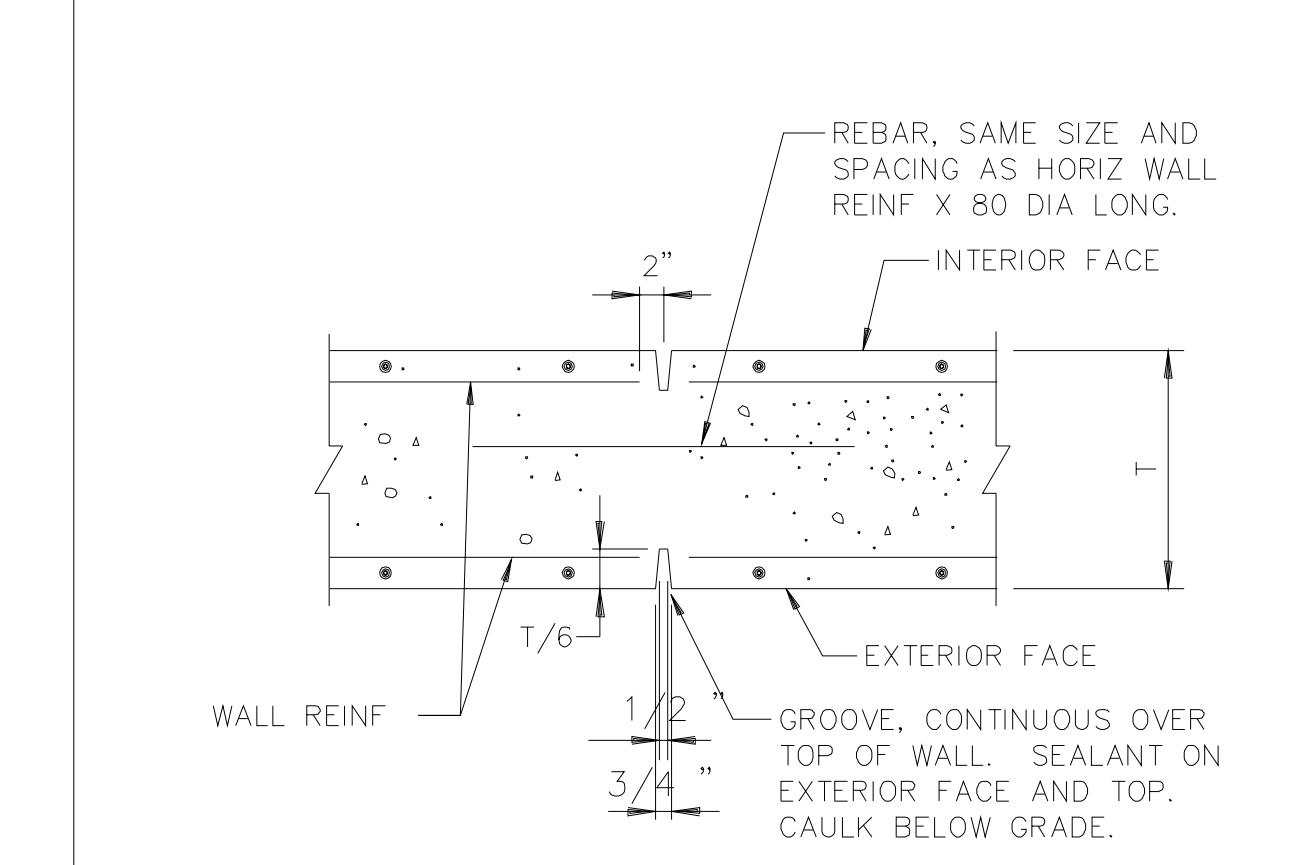
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R	<p><b>ABBREVIATIONS</b></p> <p>"ABBREVIATION" "WORD"</p> <p>ASD ALLOWABLE STRESS DESIGN                  ALT ALTERNATE                  ACI AMERICAN CONCRETE INSTITUTE                  AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION                  AISI AMERICAN IRON AND STEEL INSTITUTE                  ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS                  AWS AMERICAN WELDING SOCIETY                  AB ANCHOR BOLT                  @ AT RATE OF                  BAL BALANCE                  BM BEAM                  B or BOT BOTTOM                  BEW BOTTOM EACH WAY                  CIP CAST-IN-PLACE                  § CENTERLINE                  C CONC CONCRETE                  CMU CONCRETE MASONRY UNIT                  CRSI CONCRETE REINFORCING STEEL INSTITUTE                  CONN CONNECTION                  CONST CONSTRUCTION                  CONST JT or j CONSTRUCTION JOINT                  CONT CONTINUOUS                  CJ CONTROL JOINTS                  DEPR DEPRESSION                  DET DETAIL                  DIA DIAMETER                  DIM DIMENSION                  DIR DIRECTION                  DLS DITTO                  DN DOWELS                  DWG DRAWING                  EA EACH                  EN END                  EF EACH FACE                  ES EACH SIDE                  EW EACH WAY                  EL or e ELEVATION                  ELEV ELEVATOR                  EXP BOLT EXPANSION BOLT                  FF FAR FACE                  FT FEET or FOOT                  FIN FINISH                  FIN FL FINISHED FLOOR                  FL FLOOR                  FTG FOOTING                  FND FOUNDATION                  GALV GALVANIZED                  GA GAUGE or GAGE                  GENL GENERAL                  GR GRADE                  GUS p GUSSET PLATES                  HT HEIGHT                  HP HIGH POINT                  HS HIGH STRENGTH                  HSS HOLLOW STRUCTURAL SECTIONS                  H or HORIZ HORIZONTAL                  HEF HORIZONTAL EACH FACE                  HIF HORIZONTAL INSIDE FACE                  HOF HORIZONTAL OUTSIDE FACE                  IN INCH                  JT JOINT                  JST JOISTS                  K KIP (1000 POUNDS)                  LE LEFT END                  LRFD LOAD &amp; RESISTANCE FACTOR DESIGN                  LOC LOCATION                  LLV LONG LEG VERTICAL                  LP LOW POINT                  LL LOWER LAYER                  MFR MANUFACTURER                  MECH MECHANICAL                  NF NEAR FACE                  NWC NORMALWEIGHT CONCRETE                  NO or # NUMBER                  OC ON CENTER                  OPNG OPENING                  OH OPPOSITE HAND                  OD OUTSIDE DIAMETER                  P PLATE                  PT POINT                  PVC POLYVINYL CHLORIDE                  PSF POUNDS PER SQUARE FOOT                  PSI POUNDS PER SQUARE INCH                  REF REFERENCE                  REINF REINFORCE or REINFORCEMENT                  REM REMAINDER                  RET RETURN                  RE RIGHT END                  SECT SECTION                  SC SHEAR CONNECTOR                  SLV SHORT LEG VERTICAL                  SIM SIMILAR                  SOG SLAB ON GRADE                  STD STANDARD                  STL STEEL                  SDI STEEL DECK INSTITUTE                  SF STEP FOOTING                  STIFF STIFFENER                  STR STRUCTURAL                  SUP SUPPORT                  SYM SYMMETRICAL                  THK THICK or THICKNESS                  THRD THREADED                  T TOP                  T &amp; B TOP &amp; BOTTOM                  TOC TOP OF CONCRETE                  TOS TOP OF STEEL                  TOW TOP OF WALL                  TYP TYPICAL                  UNO UNLESS NOTED OTHERWISE                  UL UPPER LAYER                  V or VERT VERTICAL                  VEF VERTICAL EACH FACE                  VIF VERTICAL INSIDE FACE                  VOF VERTICAL OUTSIDE FACE                  WWF WELDED WIRE FABRIC                  W/ WITH                  WP WORKING POINT</p>																						
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1	STEEL BID PACKAGE	01/09/04																					
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D	<p>Einhorn Yaffee Prescott                  Architecture &amp; Engineering P.C.                  24 School Street                  Boston, MA 02108                  Telephone 617 305 9800                  Fax 617 305 9888                  eypae.com</p> <p><b>EYP/</b></p>																						
C	<p><b>LeMessurier Consultants, Inc.</b>                  STRUCTURAL ENGINEERS                  675 MASSACHUSETTS AVENUE                  CAMBRIDGE, MASSACHUSETTS 02142-3300                  TEL (617)861-1200 FAX (617)861-7200</p>																						
B	<p><b>UNIVERSITY OF SOUTHERN MAINE                  COMMUNITY EDUCATION CENTER - PHASE 2                  PORTLAND, MAINE</b></p>																						
A	<p>drawing title <b>GENERAL NOTES AND ABBREVIATIONS</b></p> <table border="1"> <tr> <td>designed by</td> <td>SKH</td> <td>project no.</td> <td>5001024.00</td> </tr> <tr> <td>drawn by</td> <td>EAM</td> <td>CAD file no.</td> <td></td> </tr> <tr> <td>checked by</td> <td>AL</td> <td>drawing no.</td> <td><b>C-S001</b></td> </tr> <tr> <td>date</td> <td>01 / 09 / 2004</td> <td></td> <td></td> </tr> <tr> <td>scale</td> <td>NONE</td> <td></td> <td></td> </tr> </table>			designed by	SKH	project no.	5001024.00	drawn by	EAM	CAD file no.		checked by	AL	drawing no.	<b>C-S001</b>	date	01 / 09 / 2004			scale	NONE		
designed by	SKH	project no.	5001024.00																				
drawn by	EAM	CAD file no.																					
checked by	AL	drawing no.	<b>C-S001</b>																				
date	01 / 09 / 2004																						
scale	NONE																						



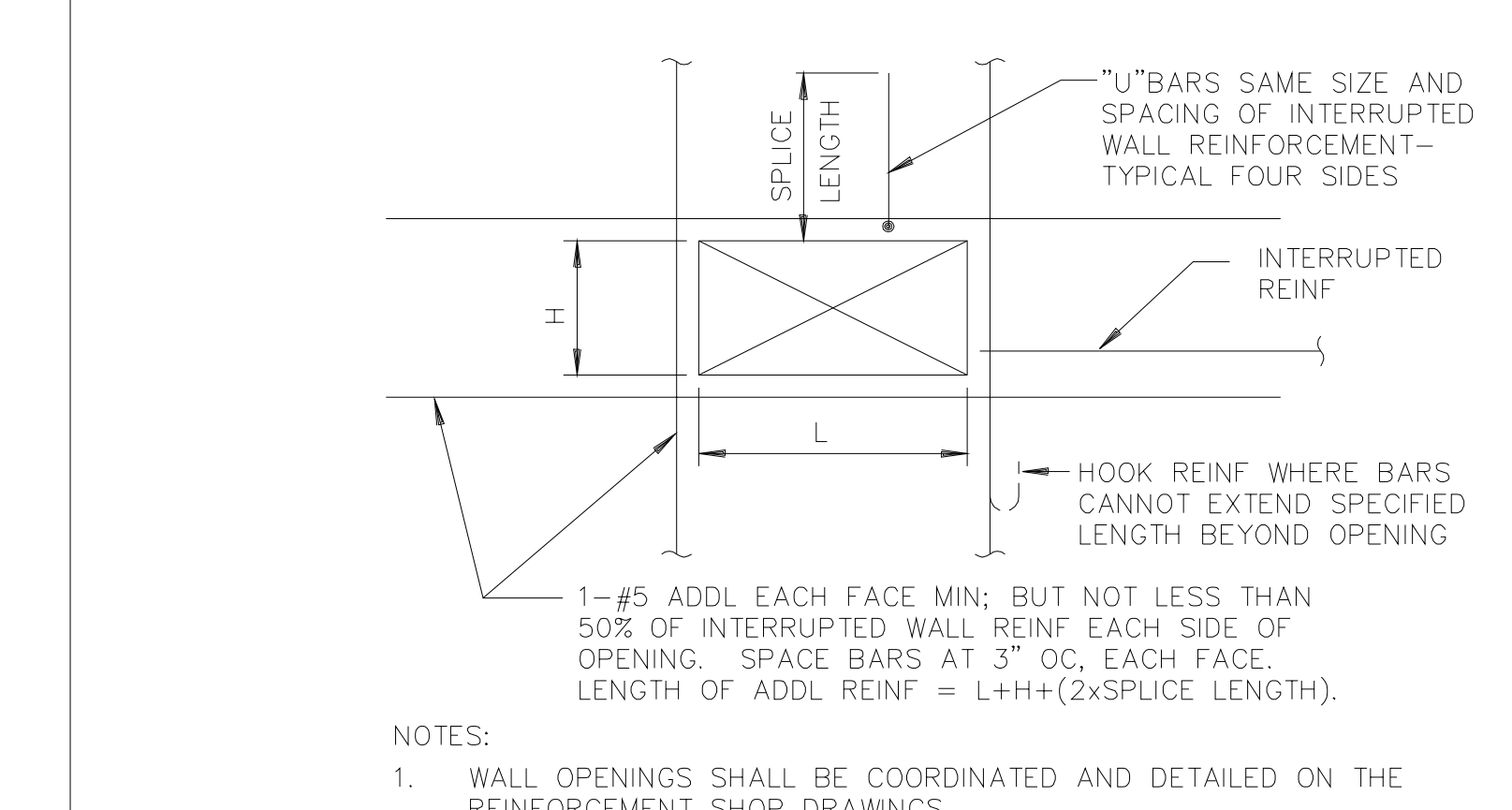
**1 HORIZONTAL WALL REINFORCEMENT PLANS**



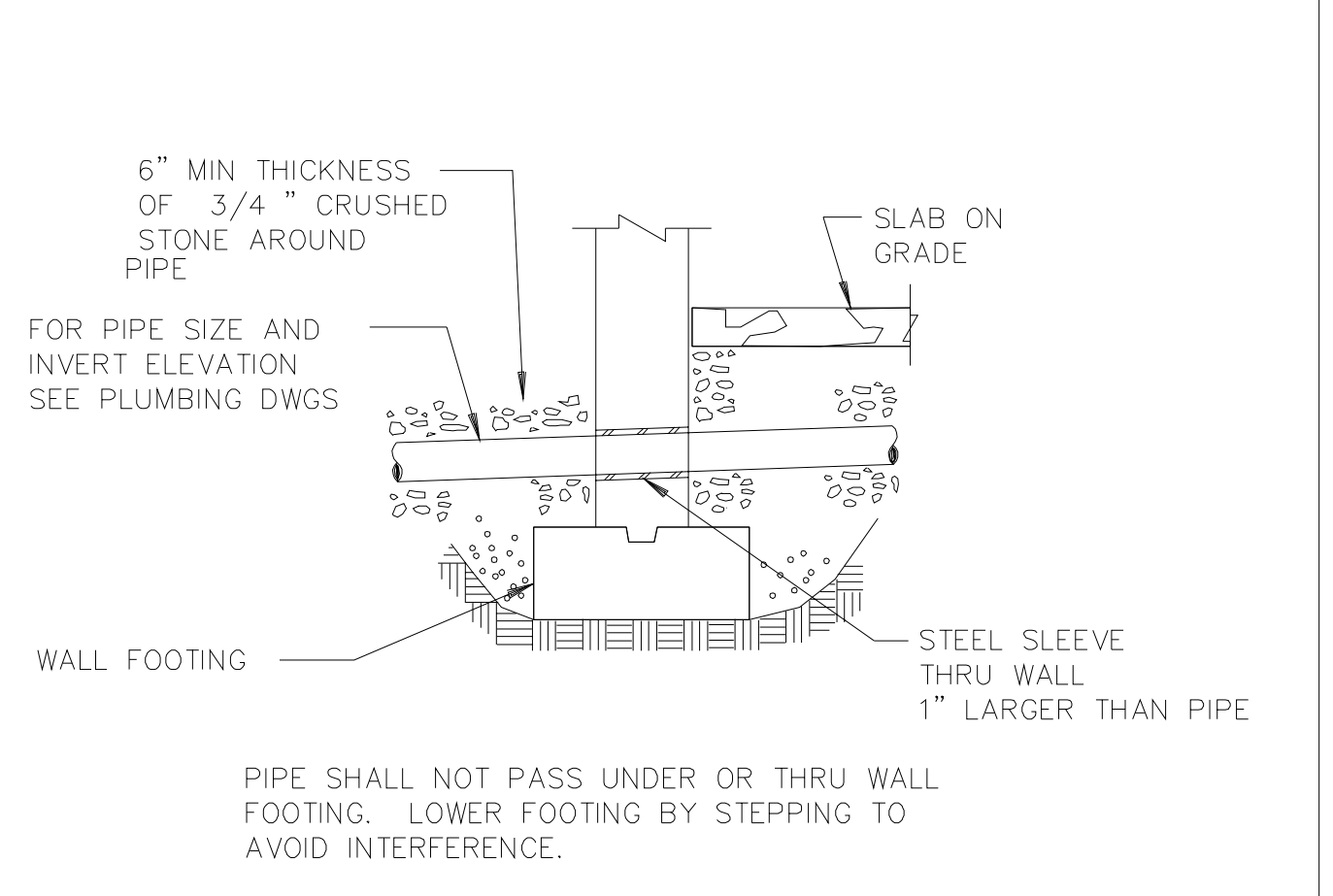
**2 VERTICAL CONSTRUCTION JOINT IN CONCRETE WALLS**



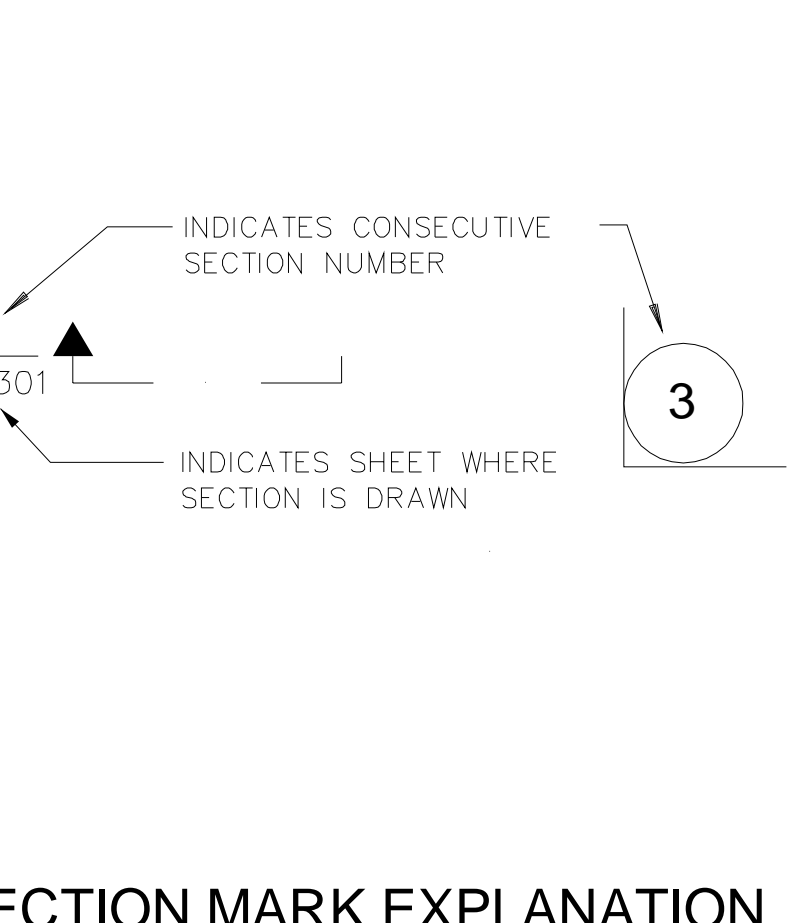
**3 VERTICAL CONTROL JOINT IN CONCRETE WALLS**



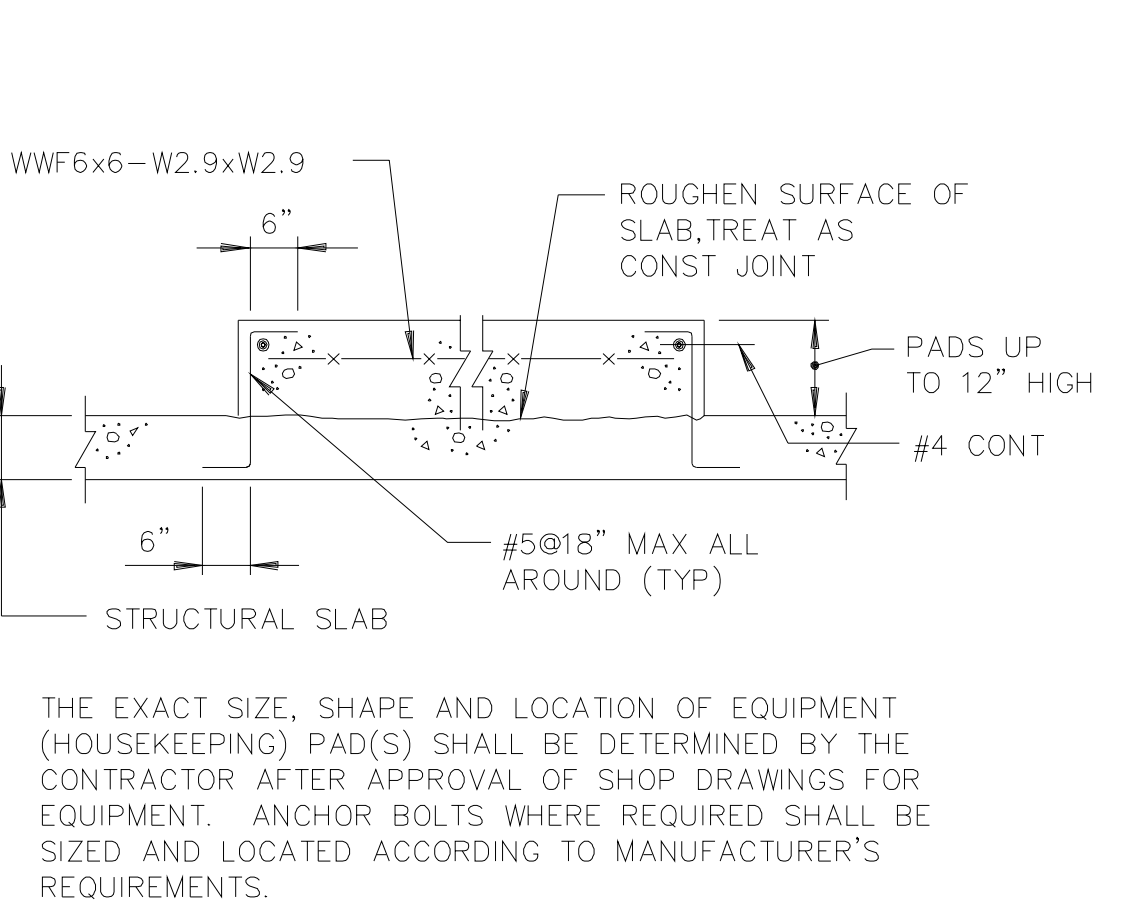
**4 REINFORCEMENT AT OPENINGS IN REINFORCED CONCRETE WALLS**



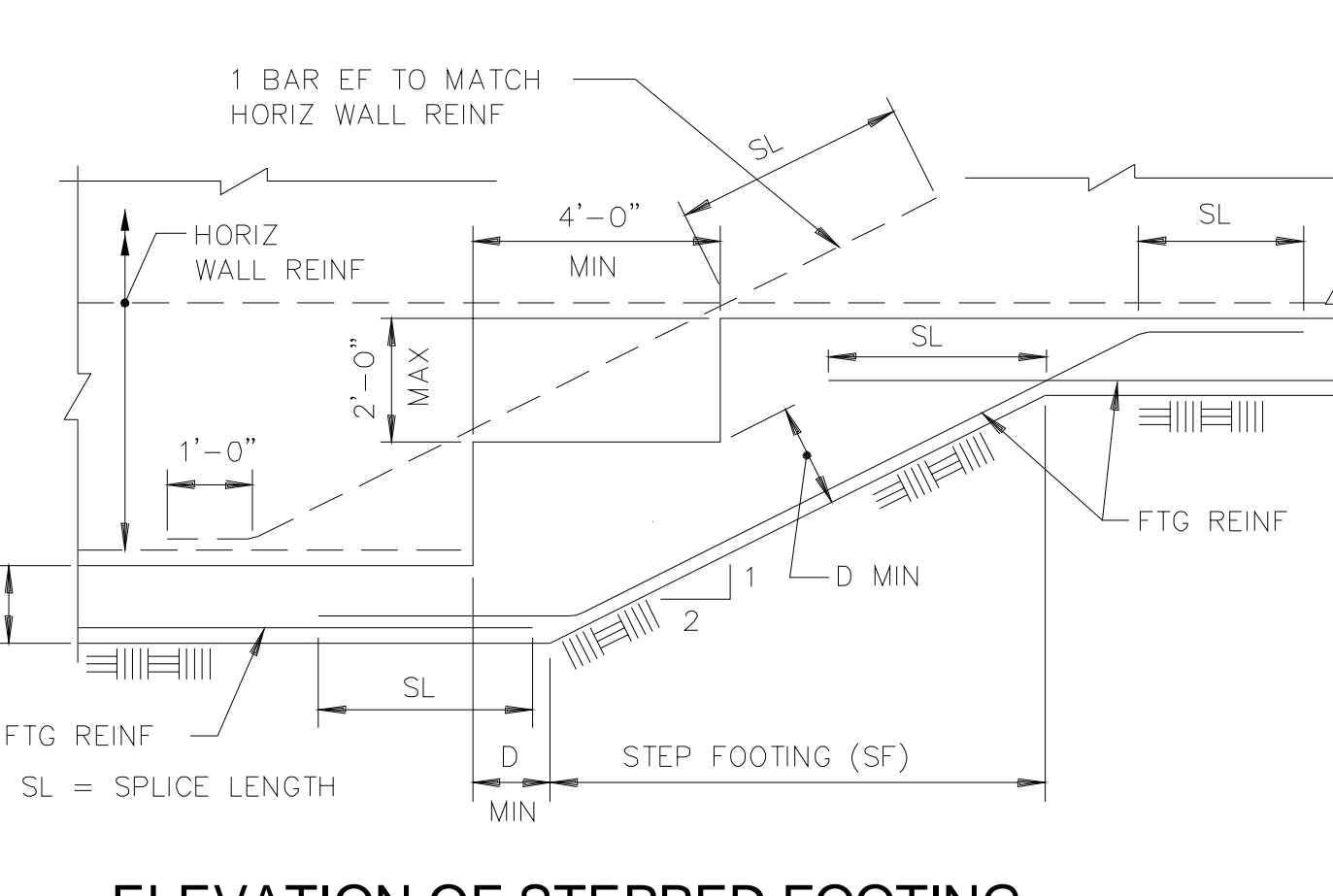
**5 PIPE PENETRATION THRU EXTERIOR WALL**



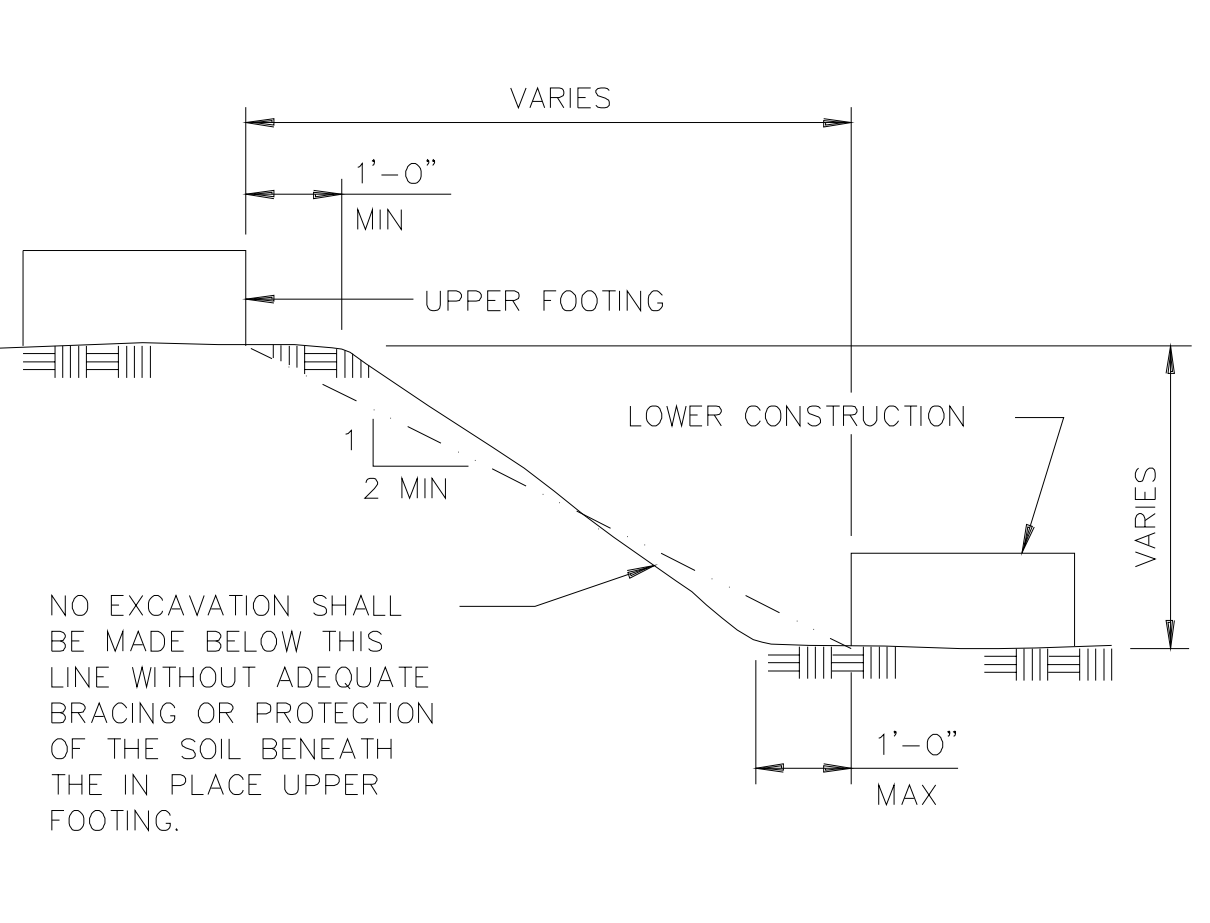
**6 SECTION MARK EXPLANATION**



**7 CONCRETE EQUIPMENT PAD**



**8 ELEVATION OF STEPPED FOOTING AT FOUNDATION WALL**



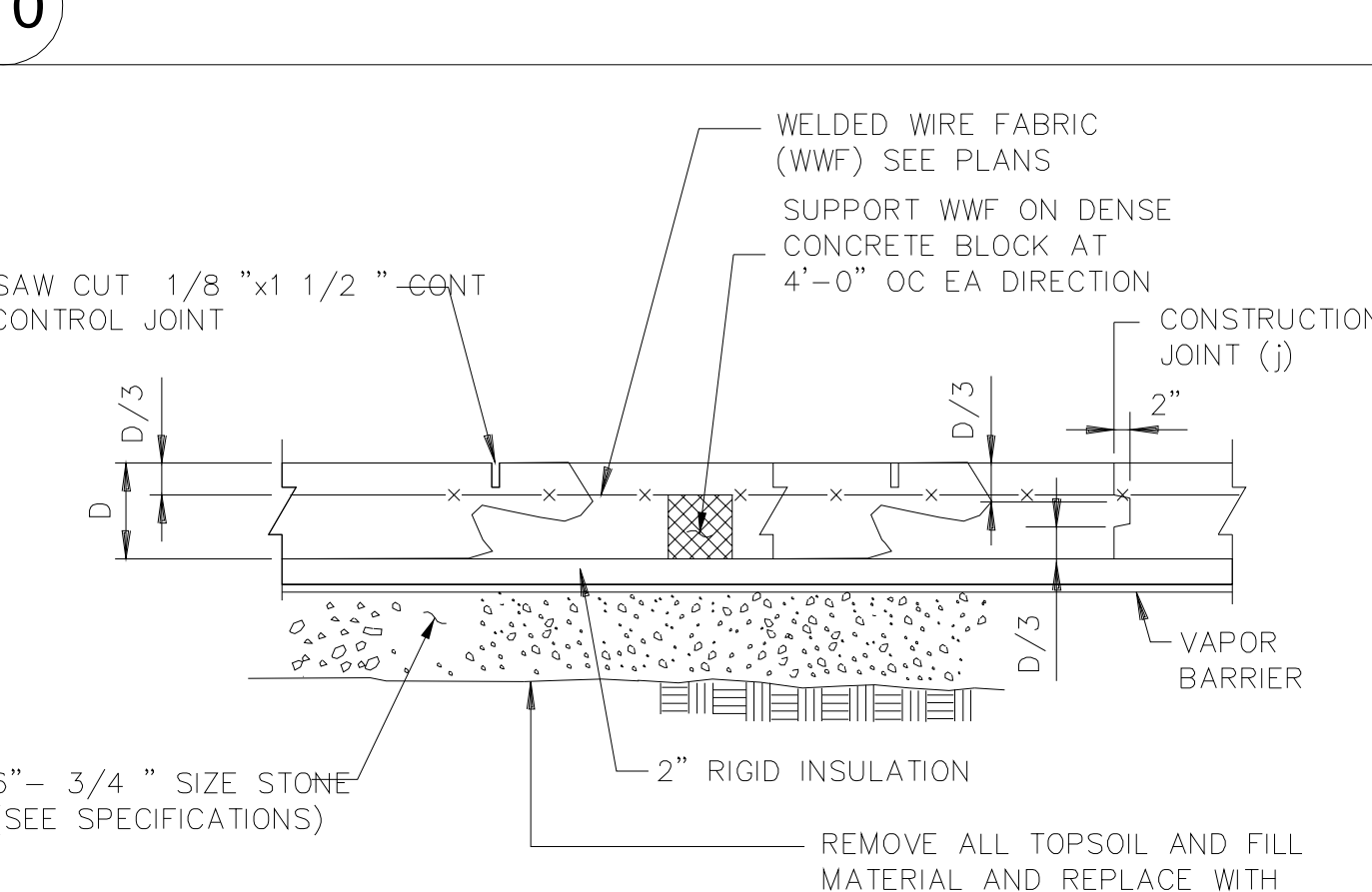
**9 SLOPE BETWEEN FOOTING AND ADJACENT CONSTRUCTION**

**MINIMUM SPLICE AND EMBEDMENT LENGTH SCHEDULE**  
(UNLESS SHOWN OTHERWISE ON DRAWINGS)

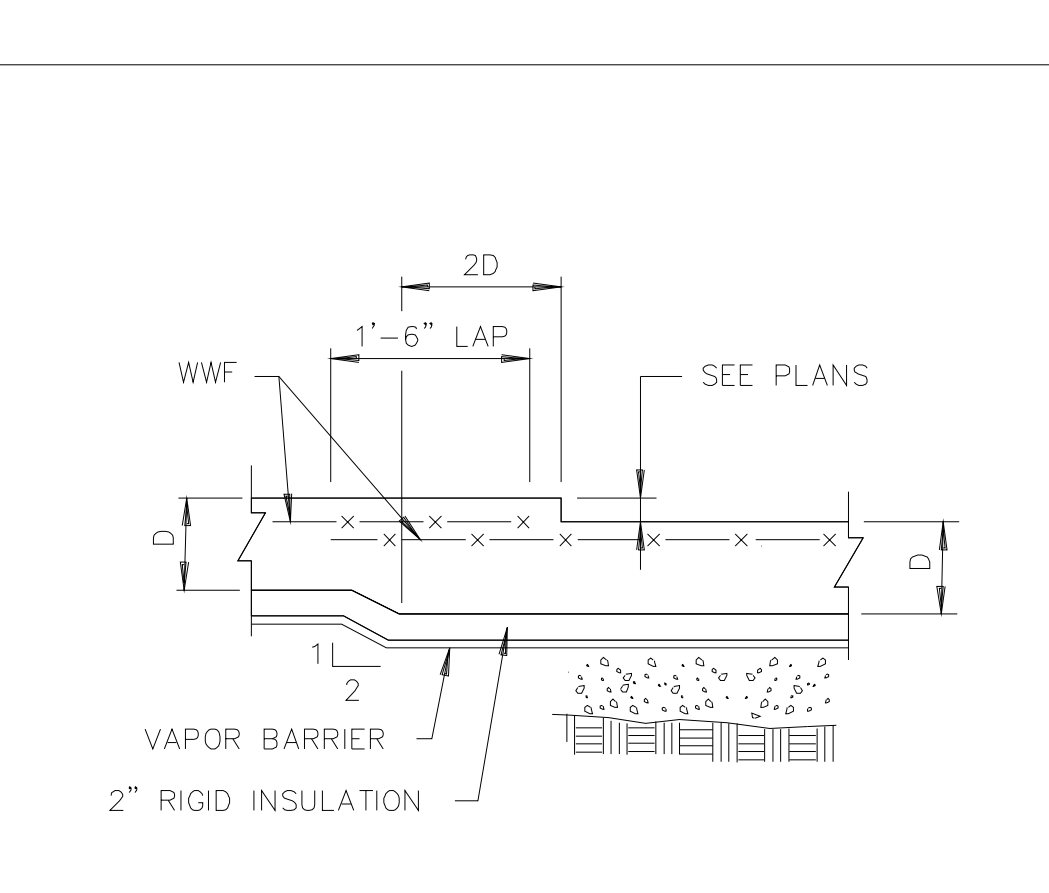
CLASS B TENSION SPLICE	f = 3000 PSI, NORMAL WEIGHT												f = 4000 PSI, NORMAL WEIGHT												f <sub>y</sub> = 60000 PSI																																																																																																								
	TOP BARS CATEGORY						OTHER BARS CATEGORY						TOP BARS CATEGORY						OTHER BARS CATEGORY						TOP BARS CATEGORY						OTHER BARS CATEGORY																																																																																																		
	BAR SIZE	1	2	3	4	5	6	1	2	3	4	5	6	BAR SIZE	1	2	3	4	5	6	1	2	3	4	5	6	BAR SIZE	1	2	3	4	5	6	1	2	3	4	5	6																																																																																										
#3	21"	21"	21"	21"	21"	21"	16"	16"	16"	16"	16"	16"	#3	18"	18"	18"	18"	18"	18"	16"	16"	16"	16"	16"	16"	#4	26"	24"	24"	24"	24"	24"	20"	19"	19"	19"	19"	19"	#5	40"	32"	30"	30"	30"	30"	25"	23"	23"	23"	23"	23"	#6	57"	45"	40"	36"	36"	36"	44"	35"	31"	28"	28"	28"	#7	77"	62"	54"	43"	42"	42"	59"	48"	42"	33"	33"	33"	#8	102"	81"	71"	57"	51"	48"	78"	63"	55"	44"	39"	37"	#9	129"	103"	90"	72"	64"	55"	99"	79"	69"	56"	50"	42"	#10	163"	131"	114"	92"	82"	65"	126"	101"	88"	70"	63"	50"	#11	200"	160"	140"	112"	100"	80"	154"	123"	108"	86"	77"	62"

CATEGORY			CATEGORY ACCORDING TO CENTER-TO-CENTER BAR SPACING					
STRUCTURAL ELEMENT	CONCRETE COVER		≤3d <sub>b</sub>	>3d <sub>b</sub>	>4d <sub>b</sub>	>4d <sub>b</sub>	≥6d <sub>b</sub>	
BEAMS, COLUMNS, AND INNER LAYER OF WALLS OR SLABS	≤d <sub>b</sub>	>d <sub>b</sub>	1	1	1	1	2	
ALL OTHERS	≤d <sub>b</sub>	>d <sub>b</sub> <2d <sub>b</sub>	1	1	1	1	2	
		≥2d <sub>b</sub>	1	3	3	4	6	

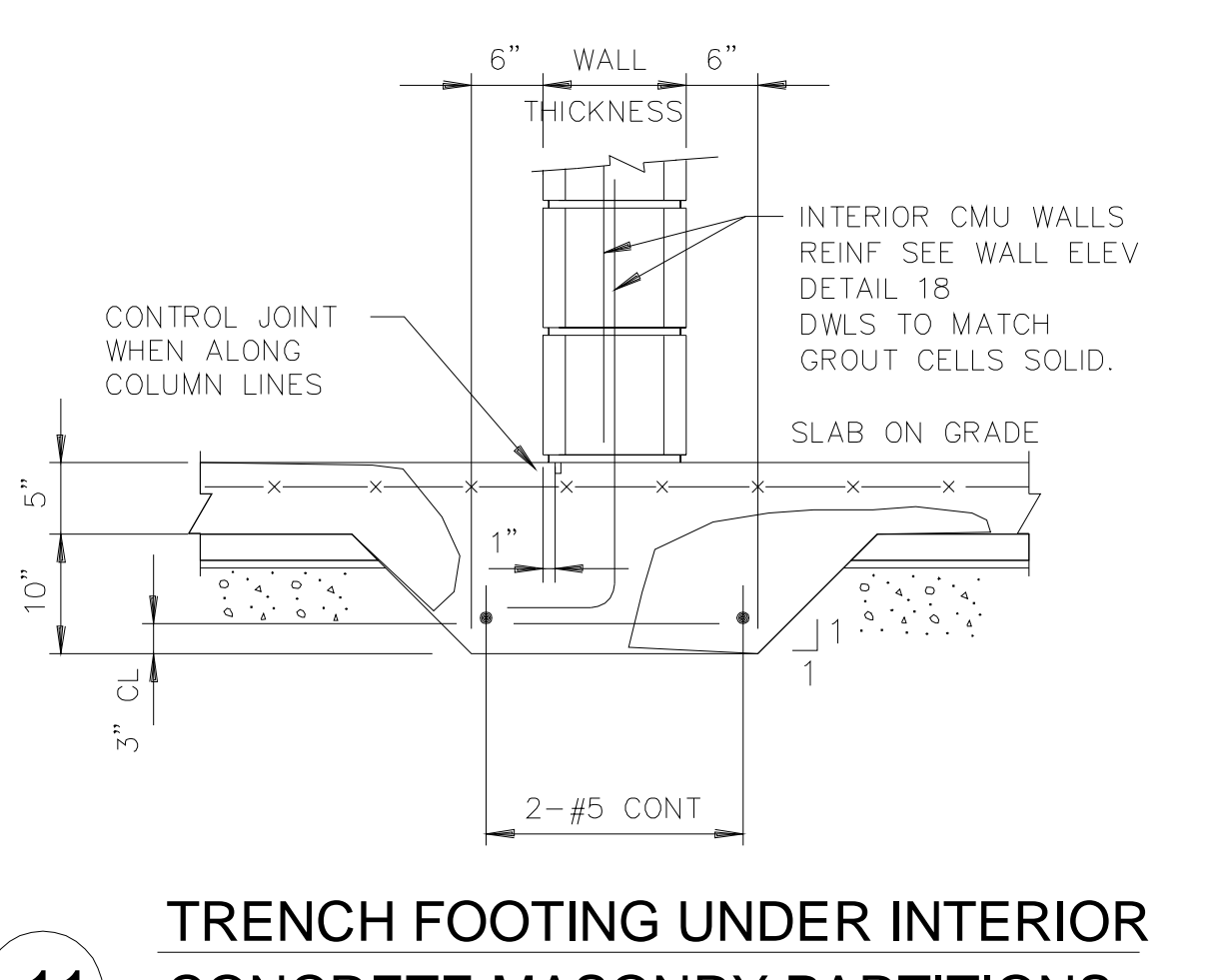
- AVOID SPLICES IN REGIONS OF MAXIMUM MOMENT. IF THIS IS NOT POSSIBLE STAGGER SPLICES SO THAT NOT MORE THAN 50% OF THE BARS ARE SPLICED WITHIN A REQUIRED SPLICE LENGTH OTHERWISE INCREASE SPLICE LENGTH BY 30%.
- TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT. WALL REIN IS CLASSIFIED AS OTHER BARS.
- FOR LIGHTWEIGHT AGGREGATE CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3.



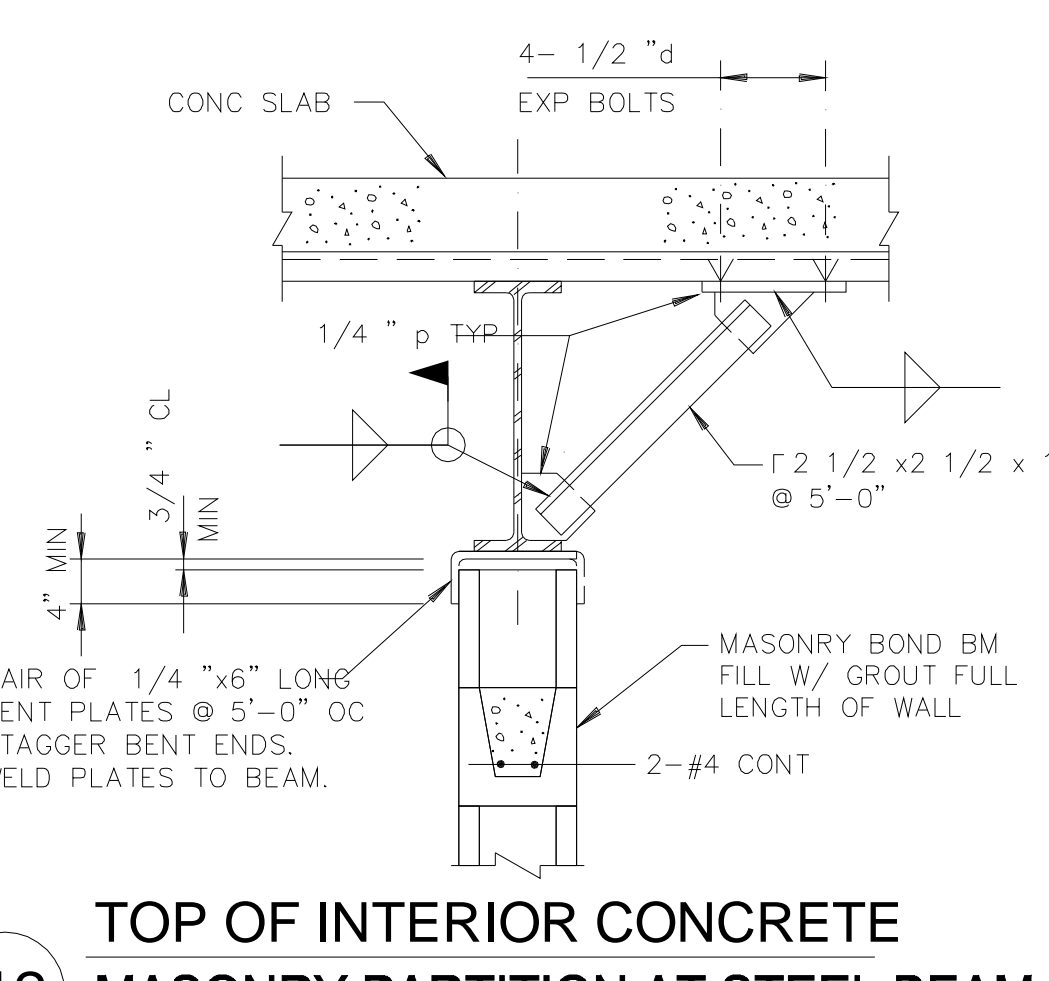
**15 SLAB ON GRADE**



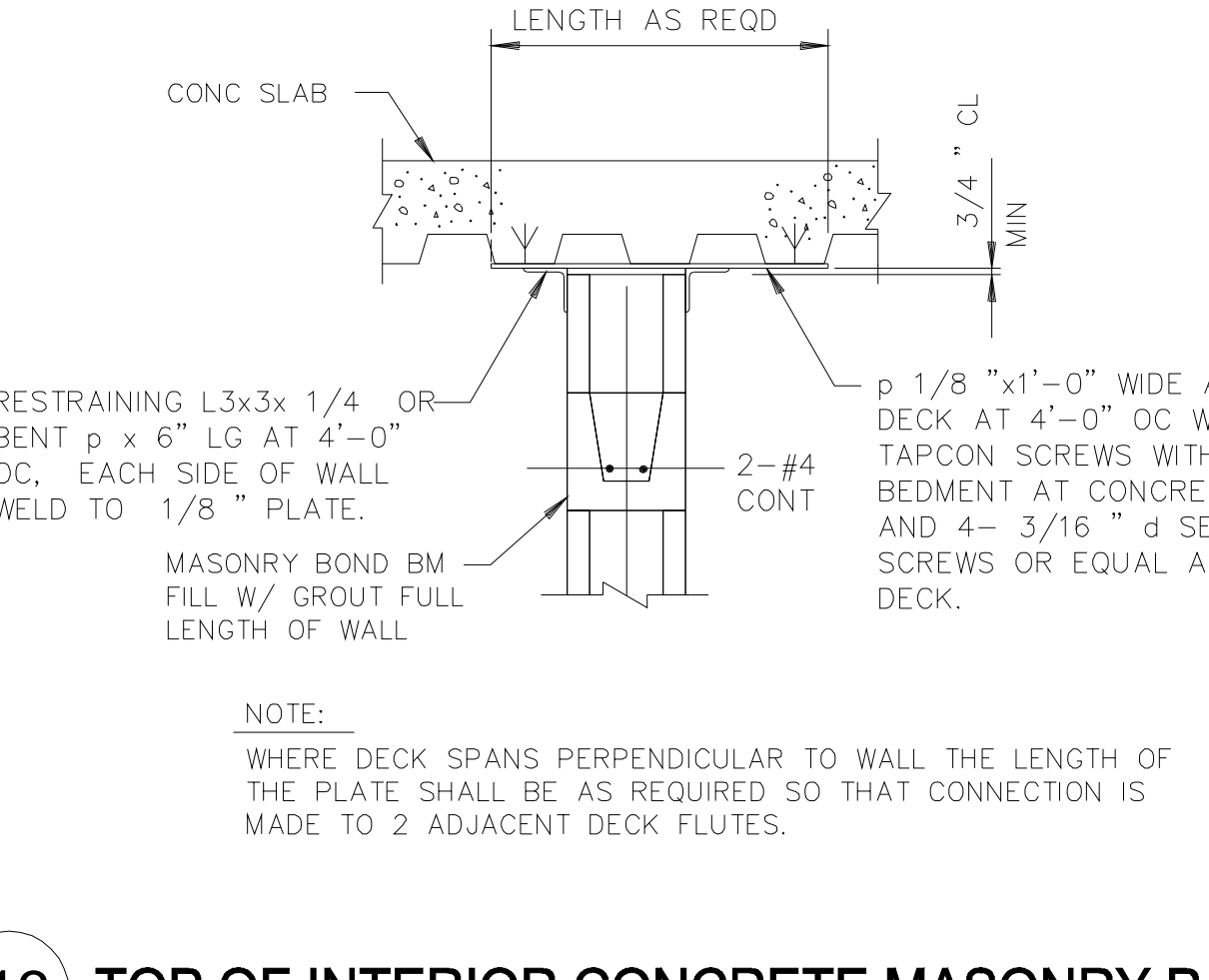
**16 SLAB ON GRADE AT DEPRESSION**



**11 TRENCH FOOTING UNDER INTERIOR CONCRETE MASONRY PARTITIONS**



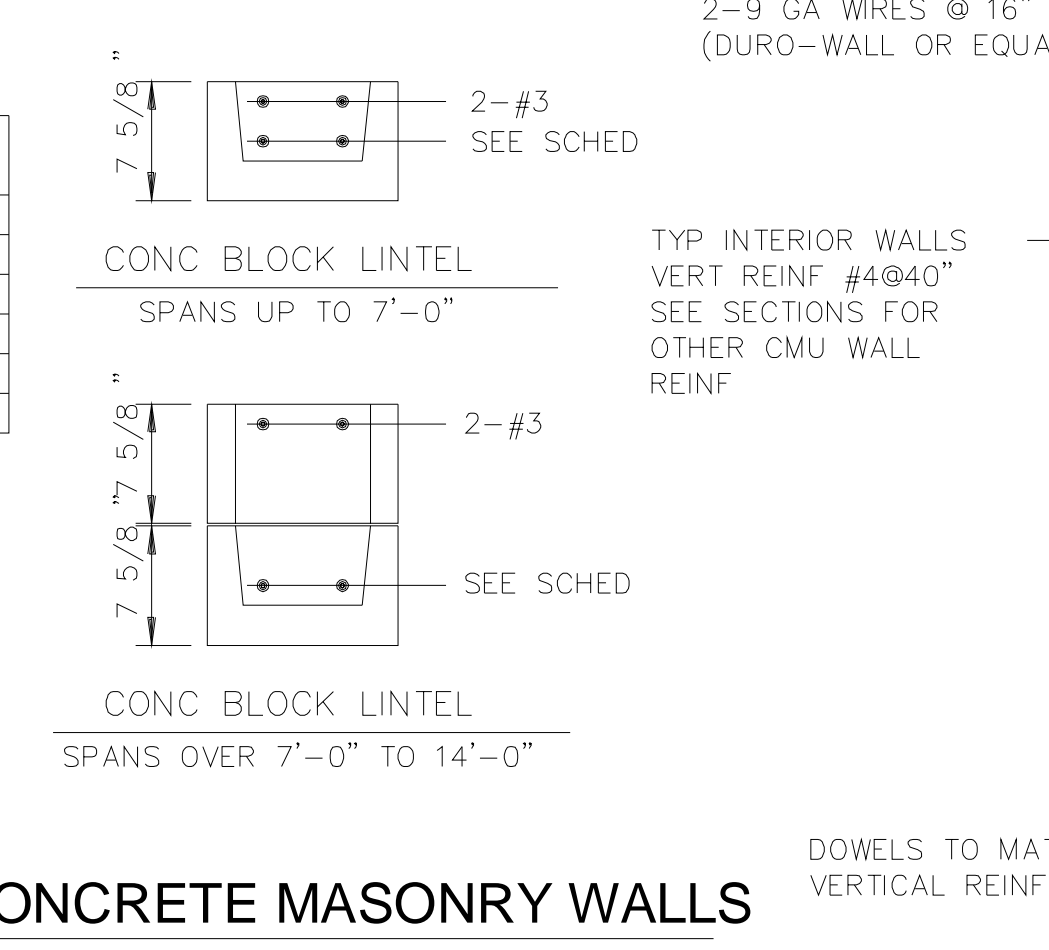
**12 TOP OF INTERIOR CONCRETE MASONRY PARTITION AT STEEL BEAM**



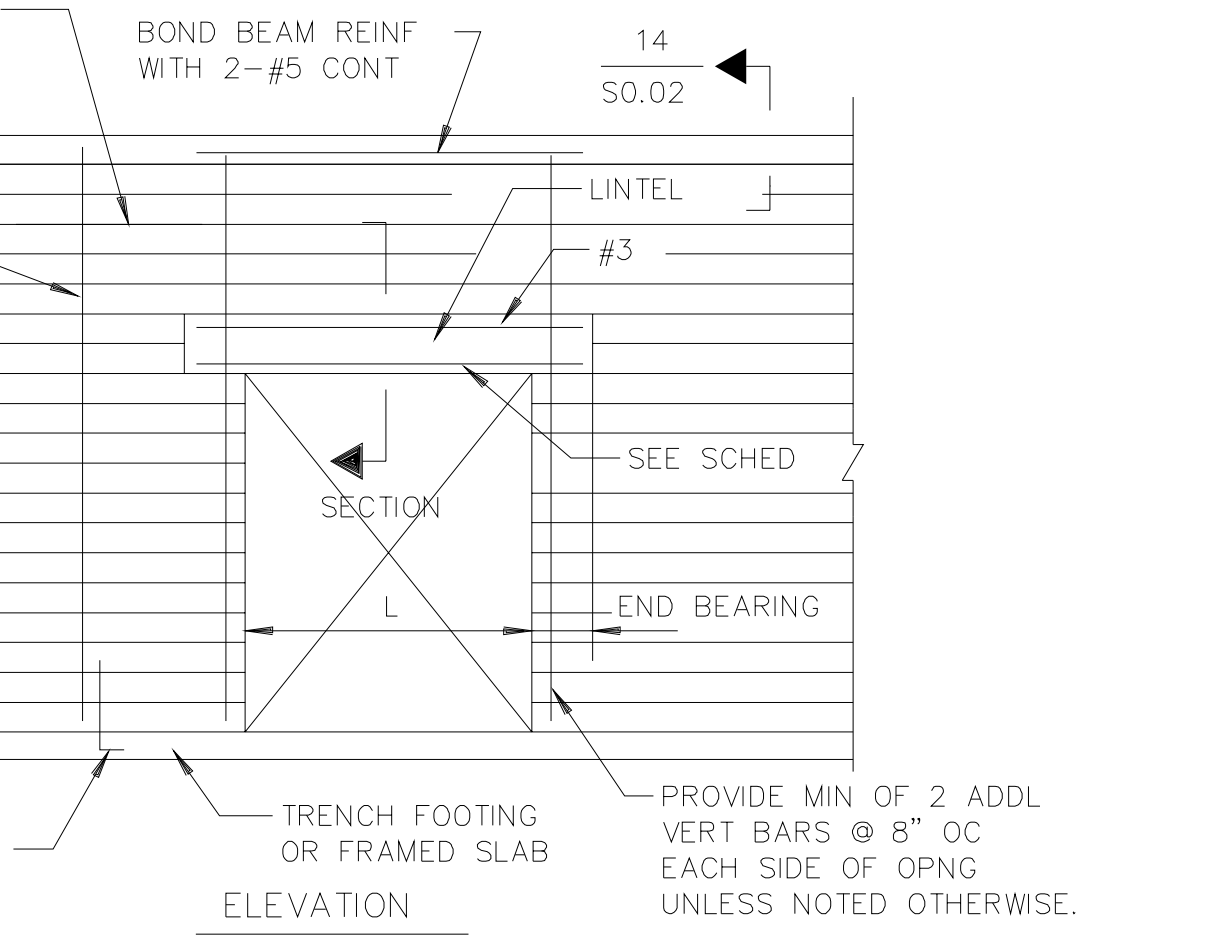
**13 TOP OF INTERIOR CONCRETE MASONRY PARTITION**

CLEAR SPAN L	REINIF IN LINTELS				END BEARING
	6" WALL	8" WALL	10" WALL	12" WALL	
UP TO 4'-0"	1-#5	2-#4	2-#4	2-#4	8"
TO 5'-0"	1-#5	2-#4	2-#4	2-#4	8"
TO 6'-0"	2-#5	2-#4	2-#5	2-#5	8"
TO 7'-0"	2-#5	2-#5	2-#6	2-#6	8"
TO 8'-0"	2-#5	2-#6	2-#7	3-#6	8"
TO 9'-0"	2-#6	3-#6	2-#8	3-#6	12"

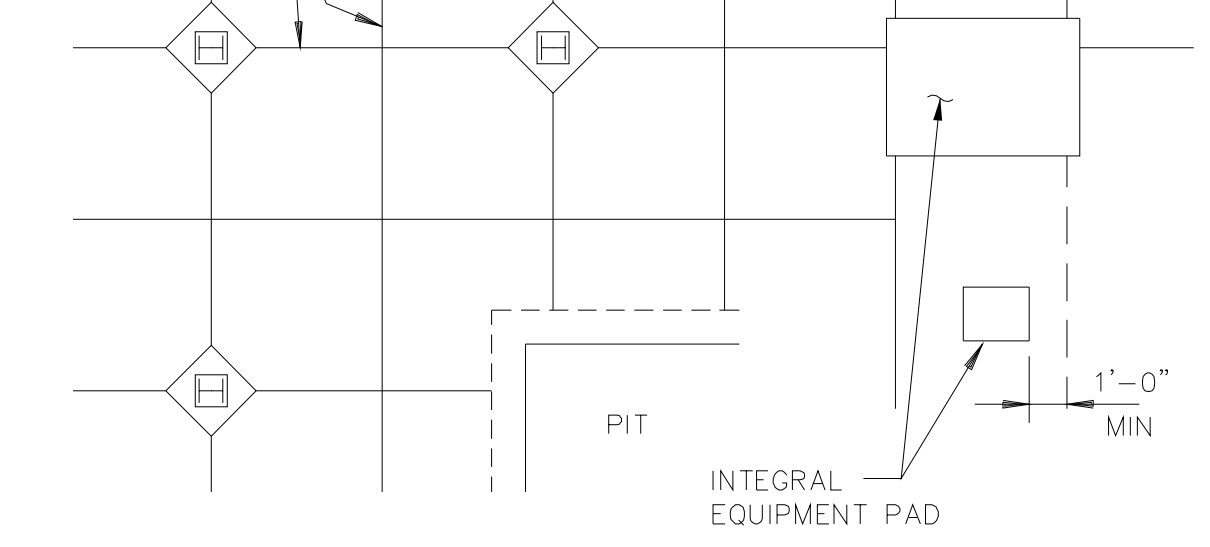
**14 REINFORCED CONCRETE LINTELS FOR CONCRETE MASONRY WALLS**



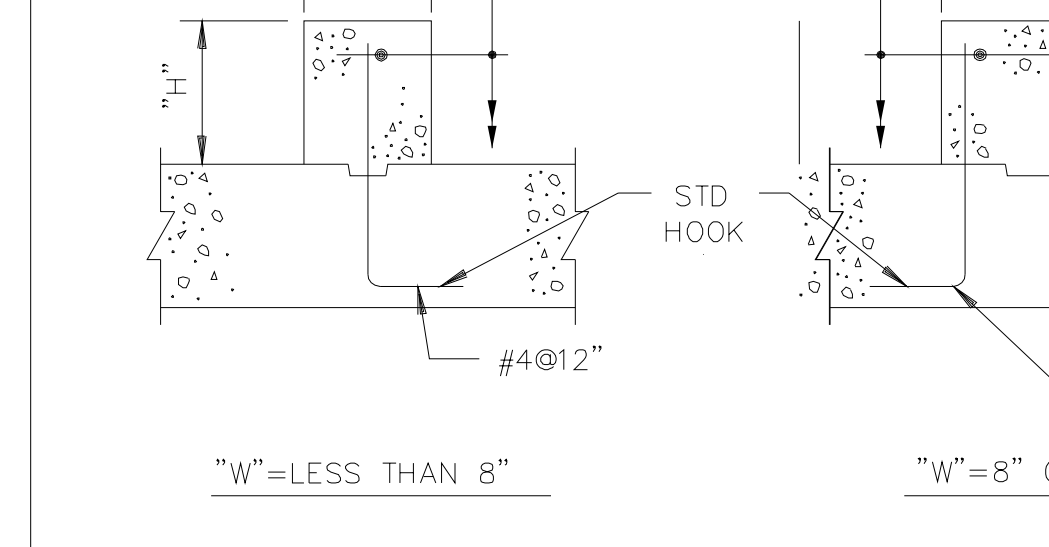
**18 CONCRETE CURB DETAIL**



**17 LAYOUT OF CONTROL, AND CONSTRUCTION JOINTS IN CONCRETE SLABS ON GRADE**



**17 LAYOUT OF CONTROL, AND CONSTRUCTION JOINTS IN CONCRETE SLABS ON GRADE**



**18 CONCRETE CURB DETAIL**

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
no.	revisions/submissions	date

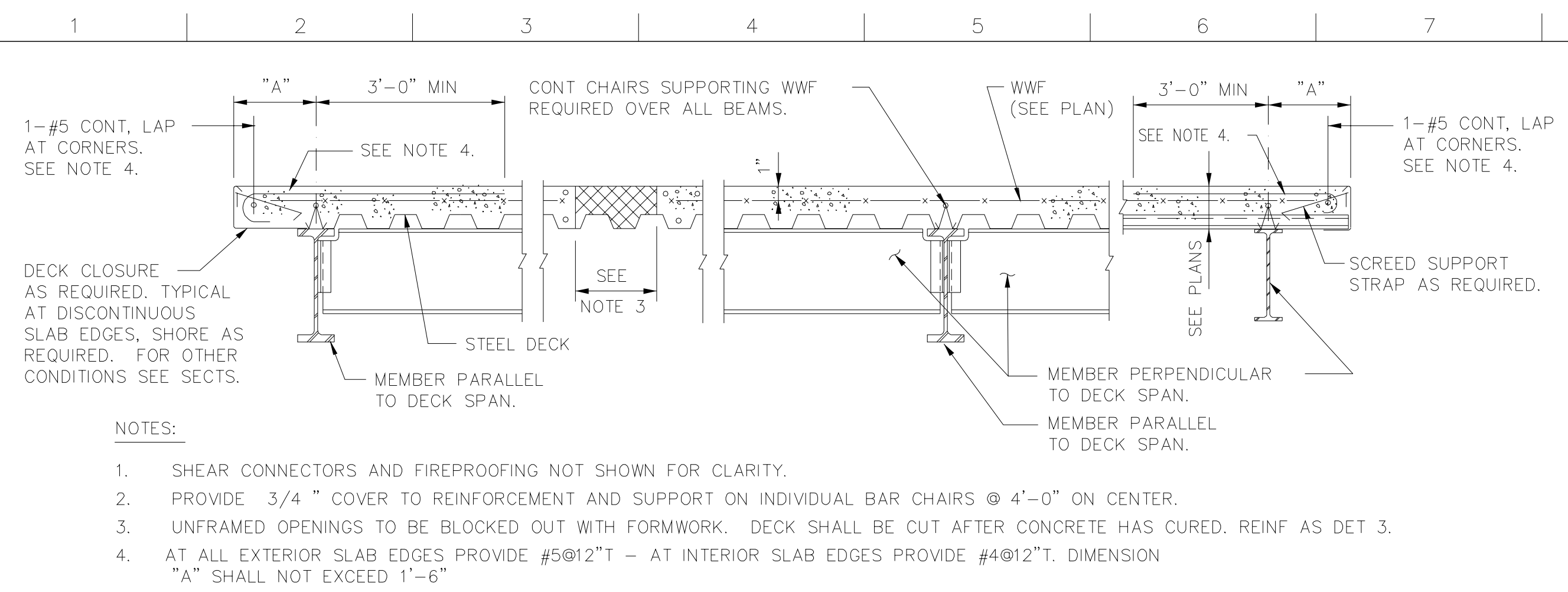
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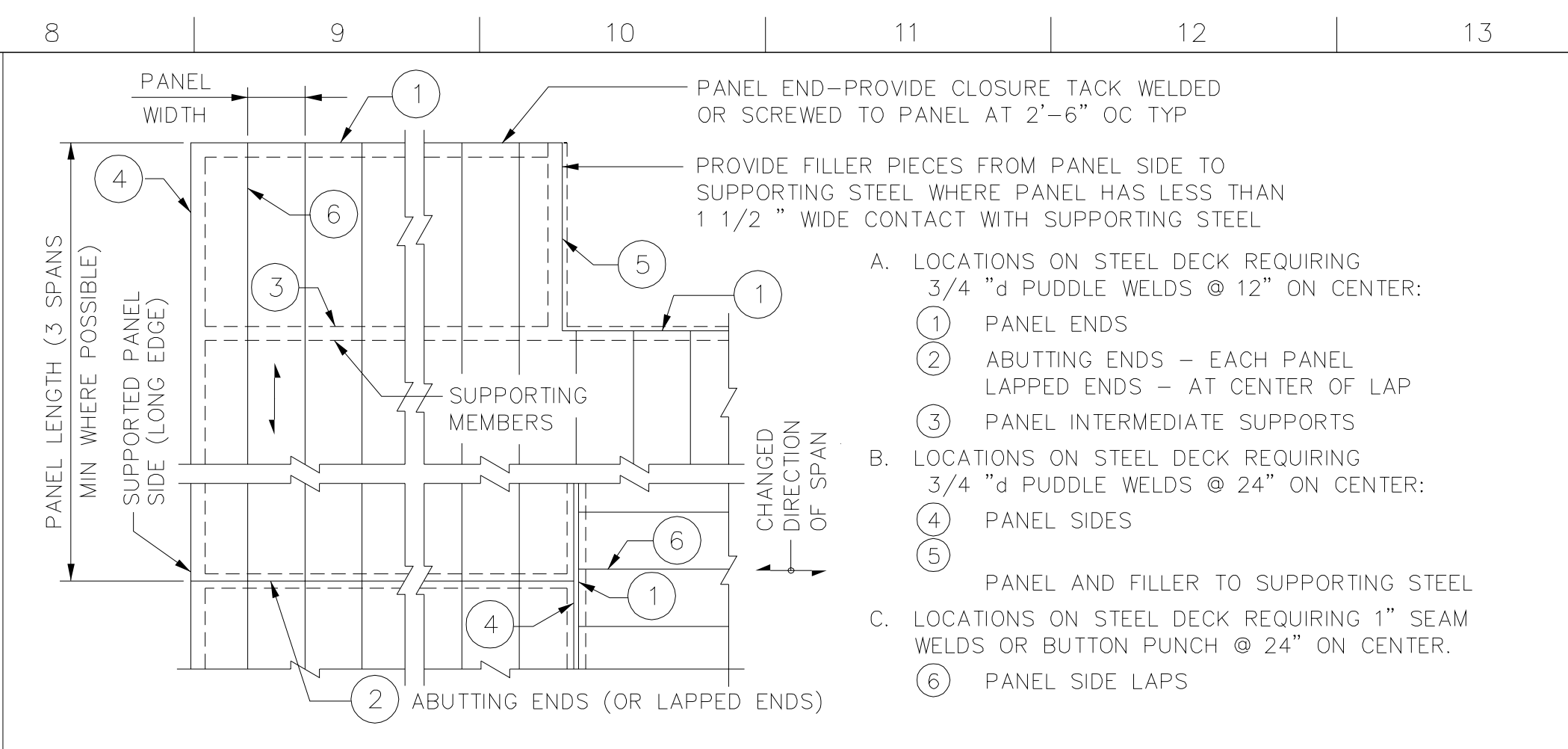
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COMMUNITY EDUCATION CENTER - PHASE 2  
PORTLAND, MAINE**

drawing title		<b>TYPICAL DETAILS</b>	
seal	designed by SKH	project no.	<b>5001024.00</b>
	drawn by EAM	CAD file no.	
	checked by AL	drawing no.	
	date 01 / 09 / 2004	<b>C-S002</b>	
	scale NONE		

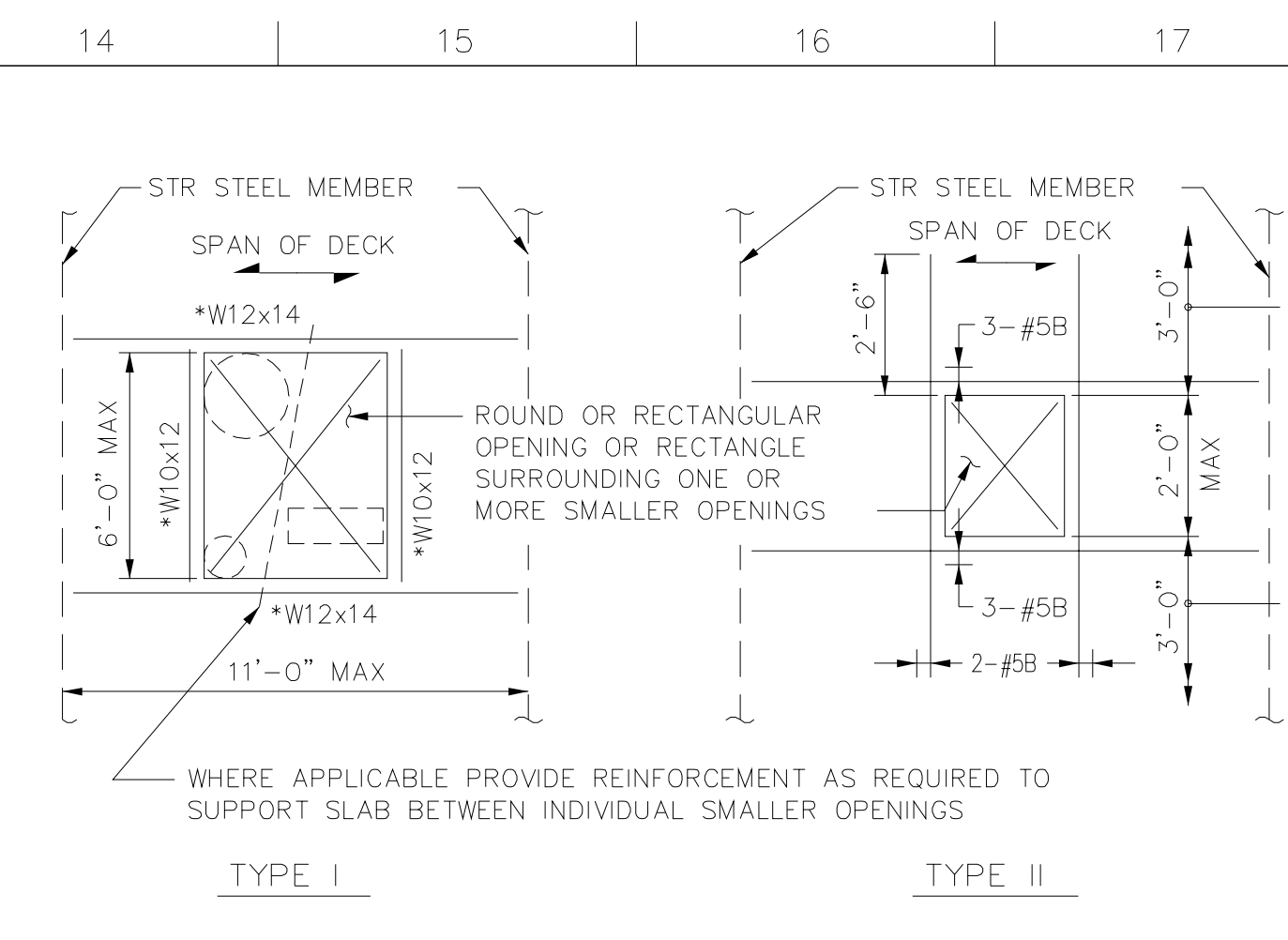
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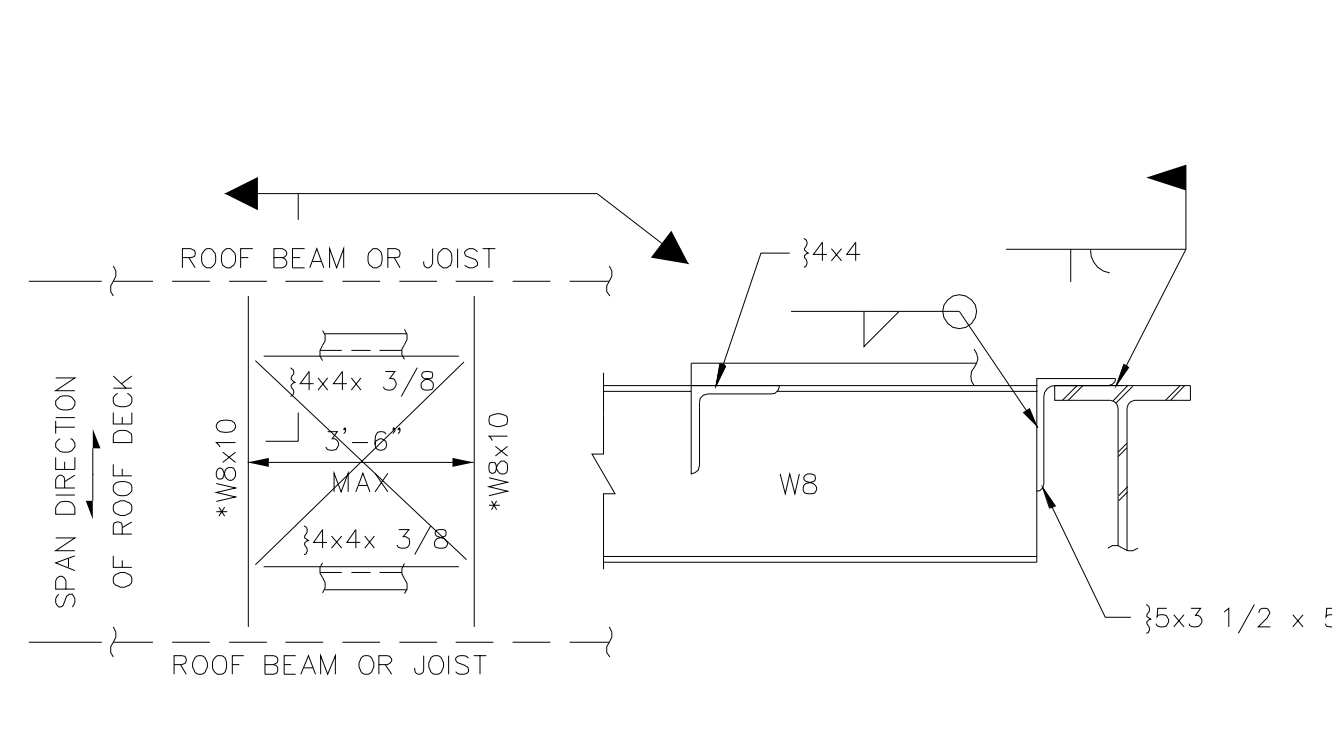
1 TYPICAL SECTION AT STEEL DECK SUPPORTED SLABS



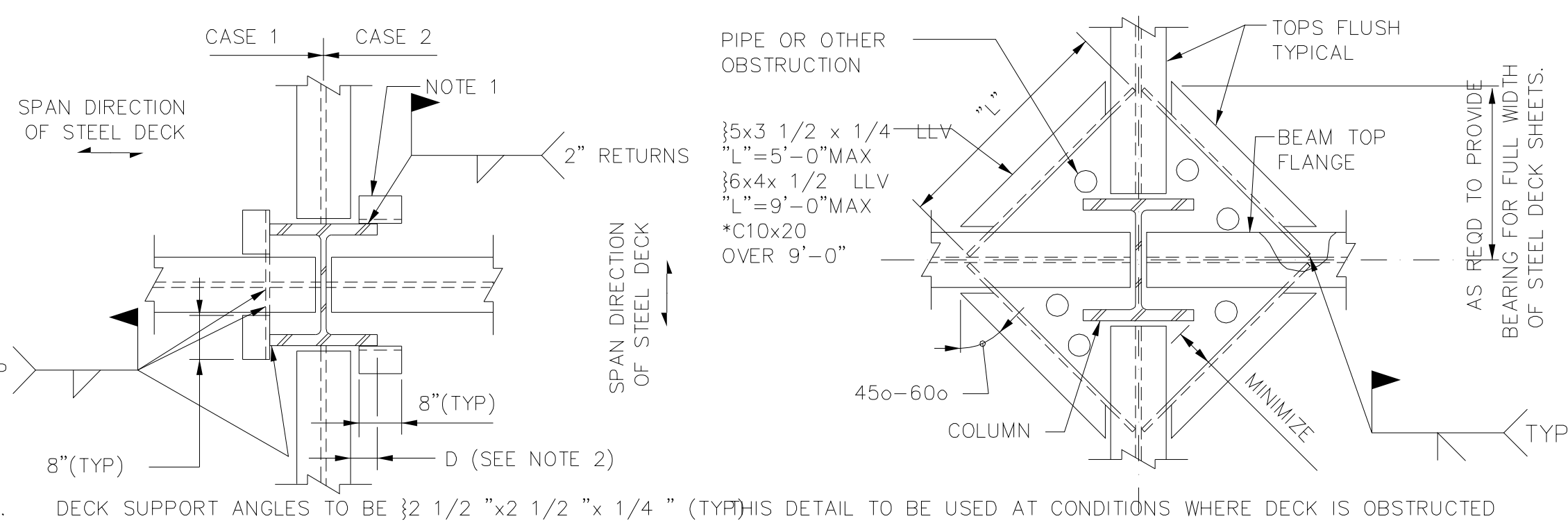
2 SCHEMATIC PLAN SHOWING TYPICAL CONNECTION OF STEEL DECK WITH CONCRETE (FOR ROOF DECK WITHOUT CONCRETE SEE SPECS FOR CONNECTION)



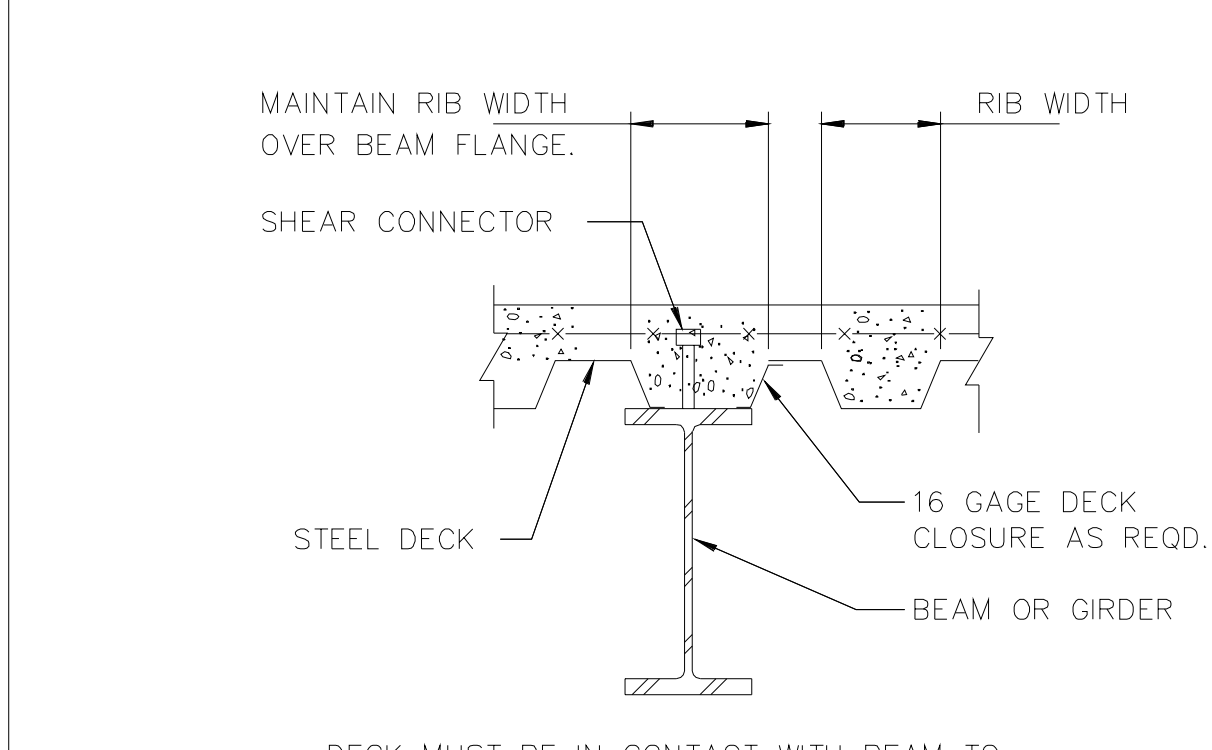
3 REINFORCEMENT AT OPENINGS IN SLABS WITH COMPOSITE STEEL DECK



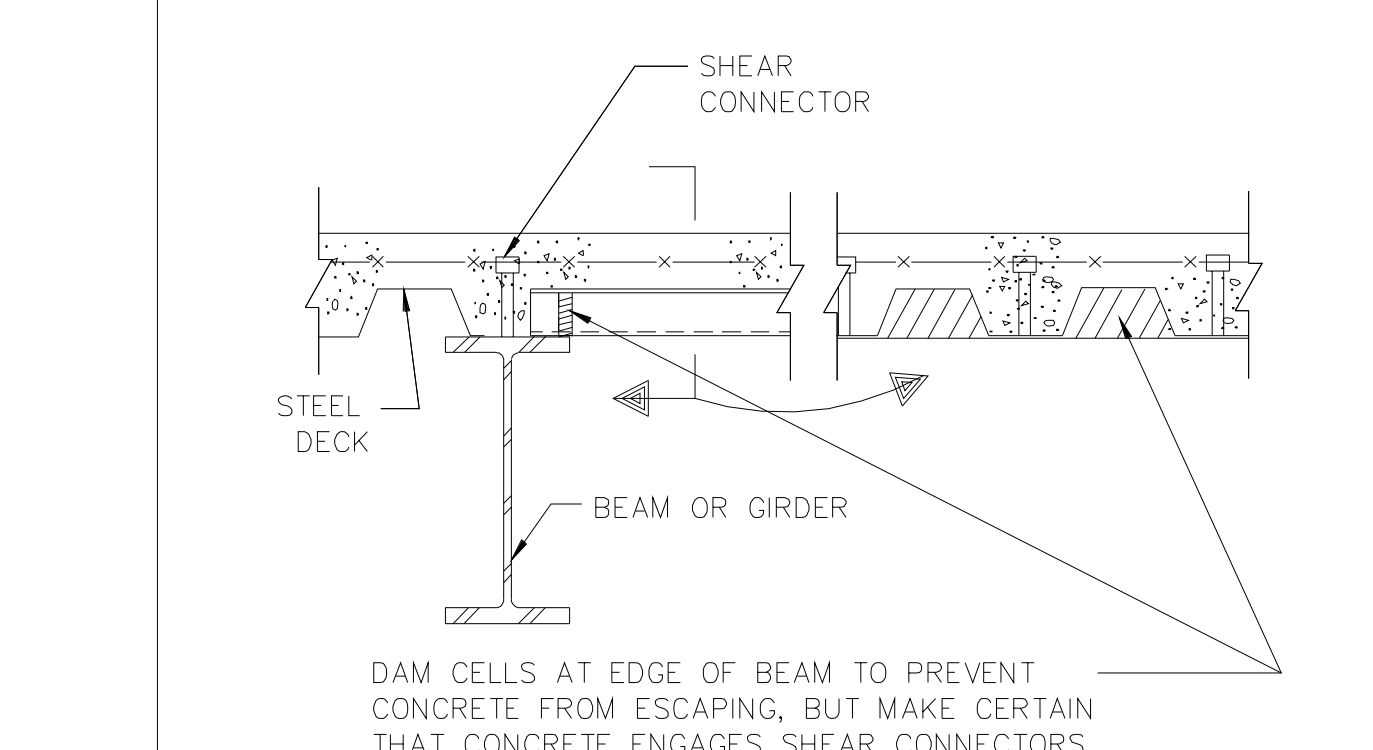
4 FRAMING FOR OPENINGS IN STEEL ROOF DECK (NO CONCRETE)



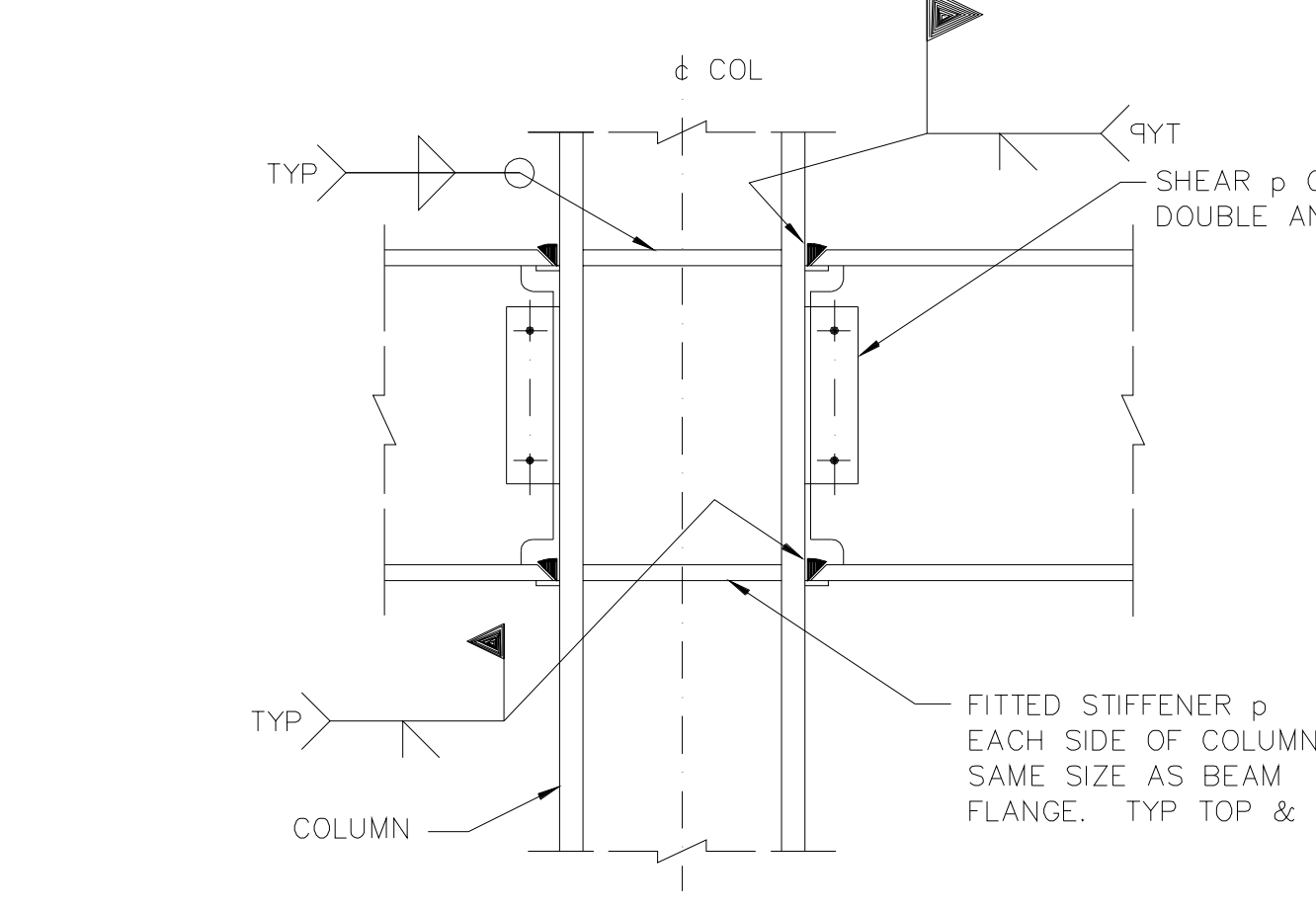
5 DECK SUPPORT AT COLUMNS AND OTHER OBSTRUCTIONS



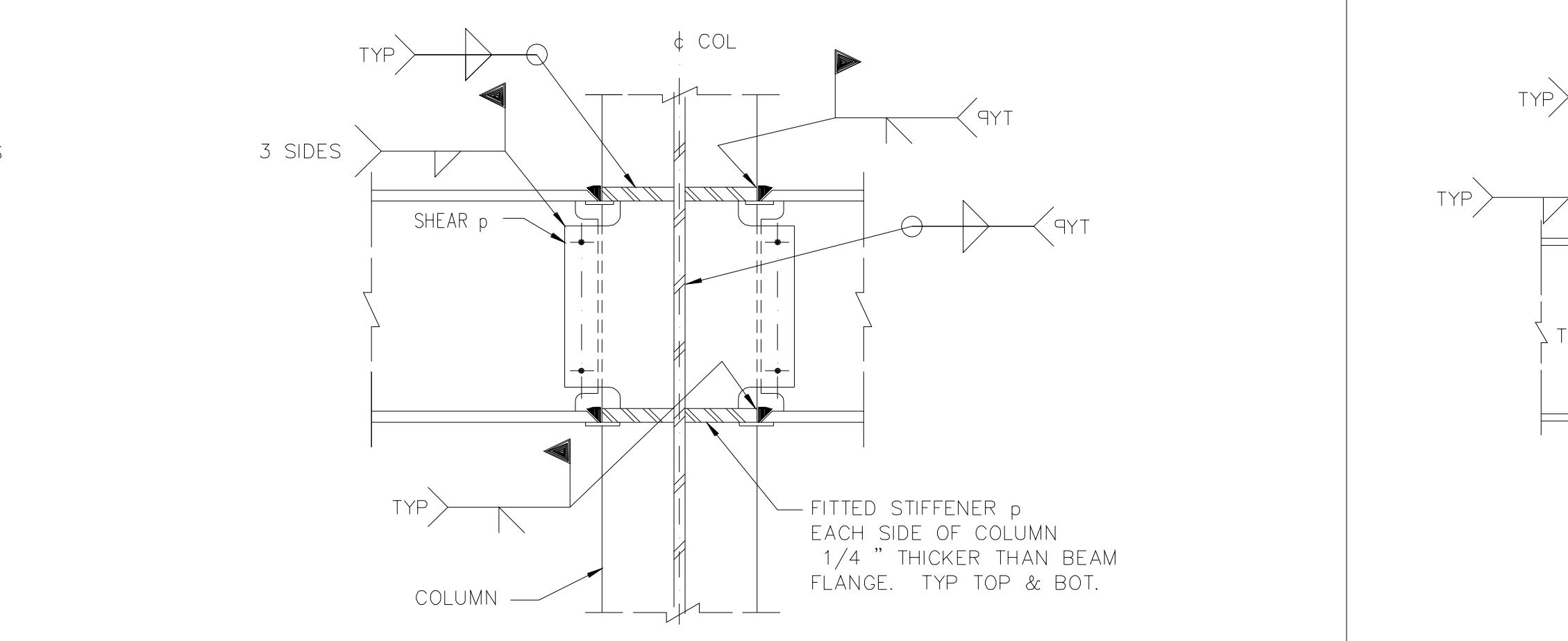
6 STEEL DECK SPANNING PARALLEL WITH STEEL BEAM



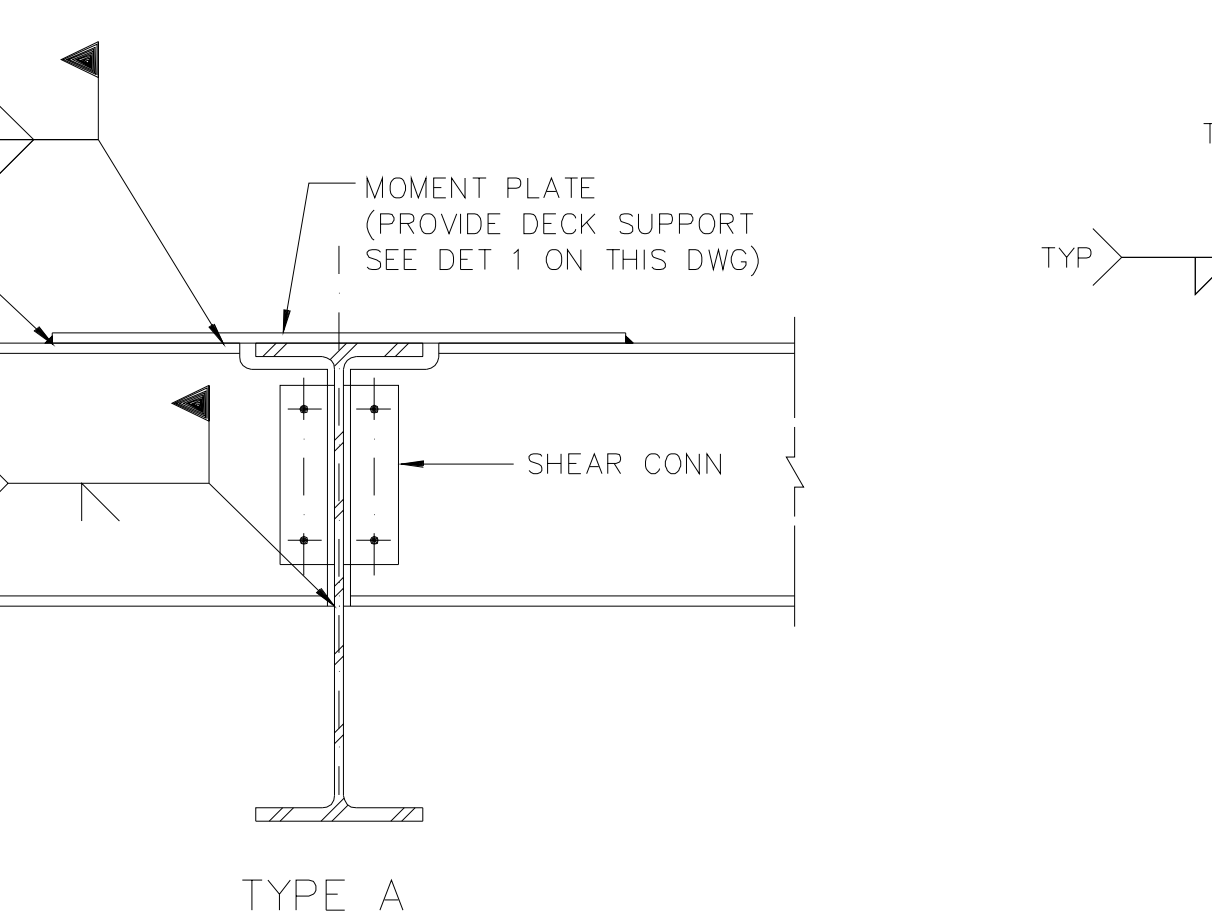
7 STEEL DECK DIRECTION CHANGE



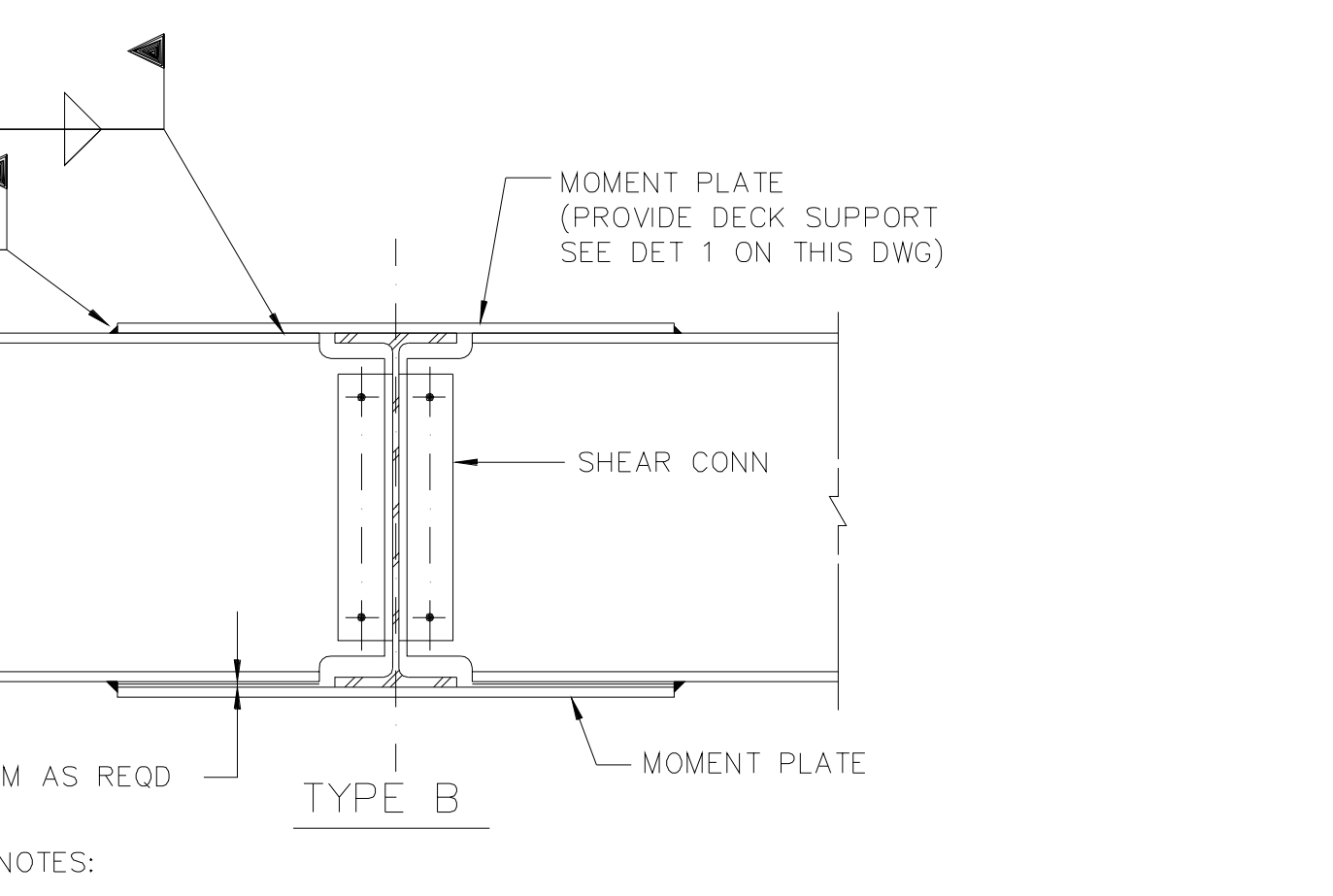
8 BEAM TO COLUMN MOMENT CONNECTION



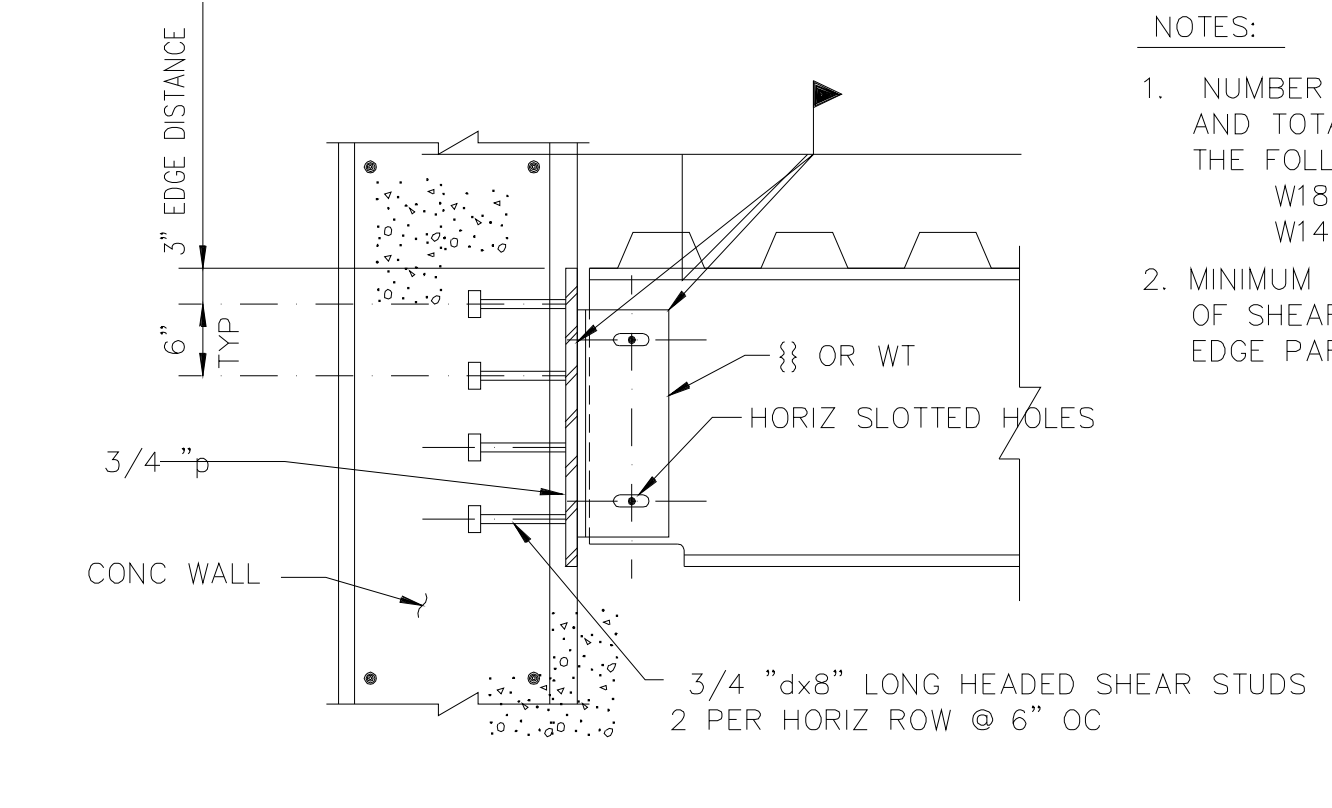
9 BEAM TO BEAM MOMENT CONNECTION



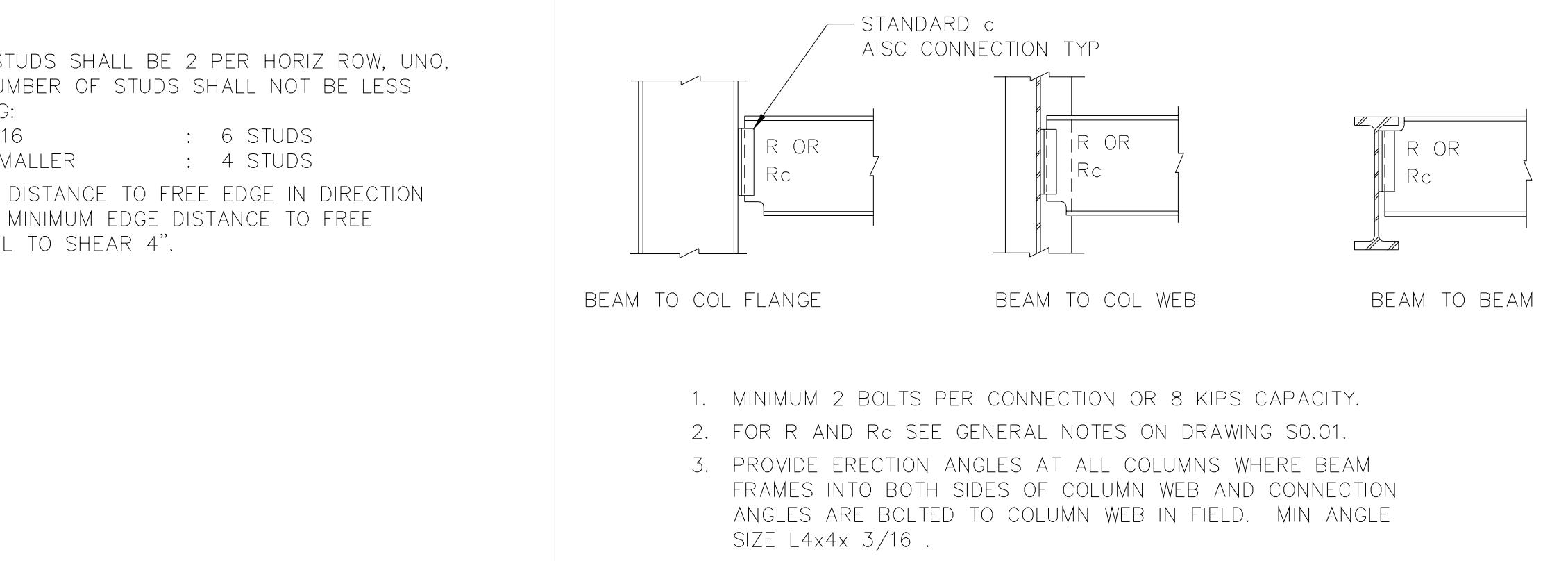
9 BEAM TO BEAM MOMENT CONNECTION



9 BEAM TO BEAM MOMENT CONNECTION



10 TYPICAL BEAM SUPPORT AT CONCRETE WALLS

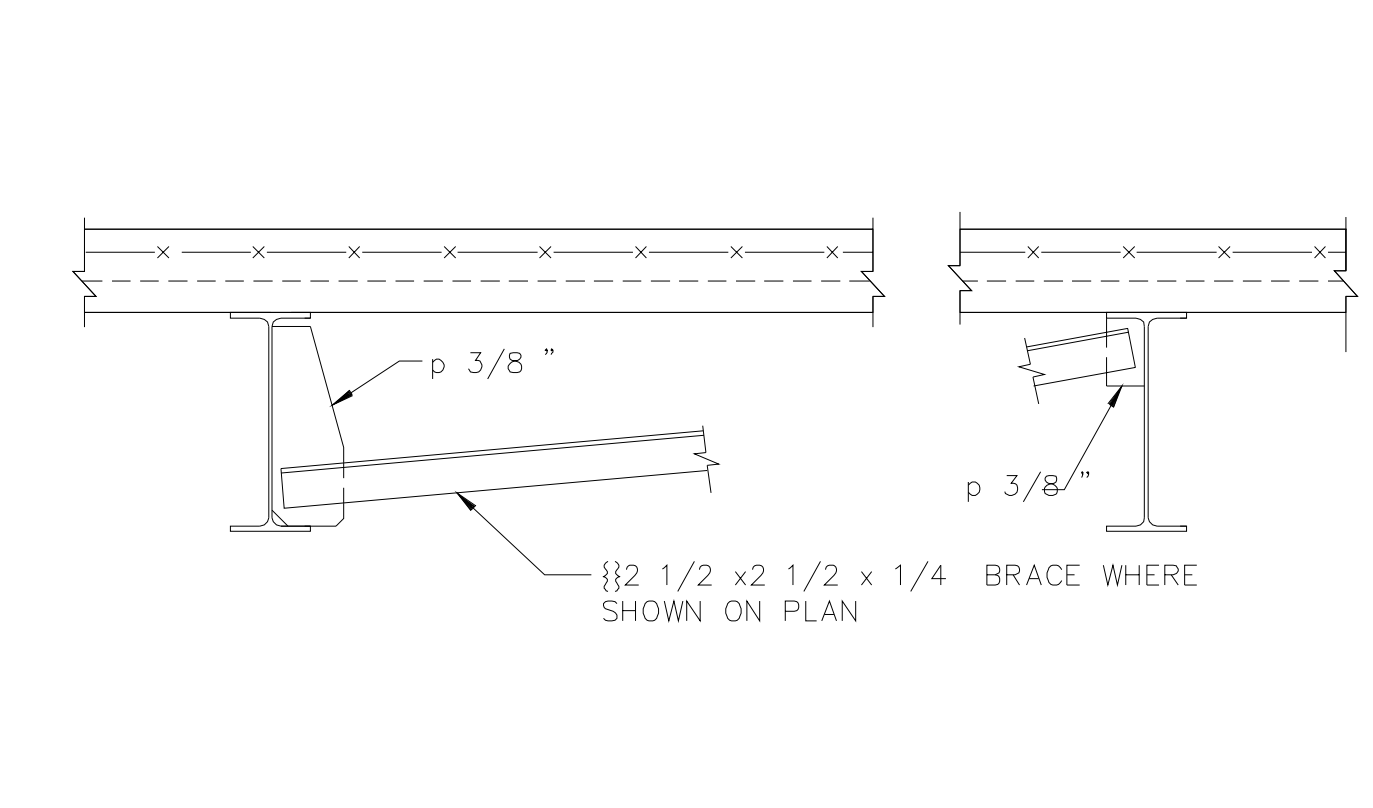


11 BEAM CONNECTION CONDITION

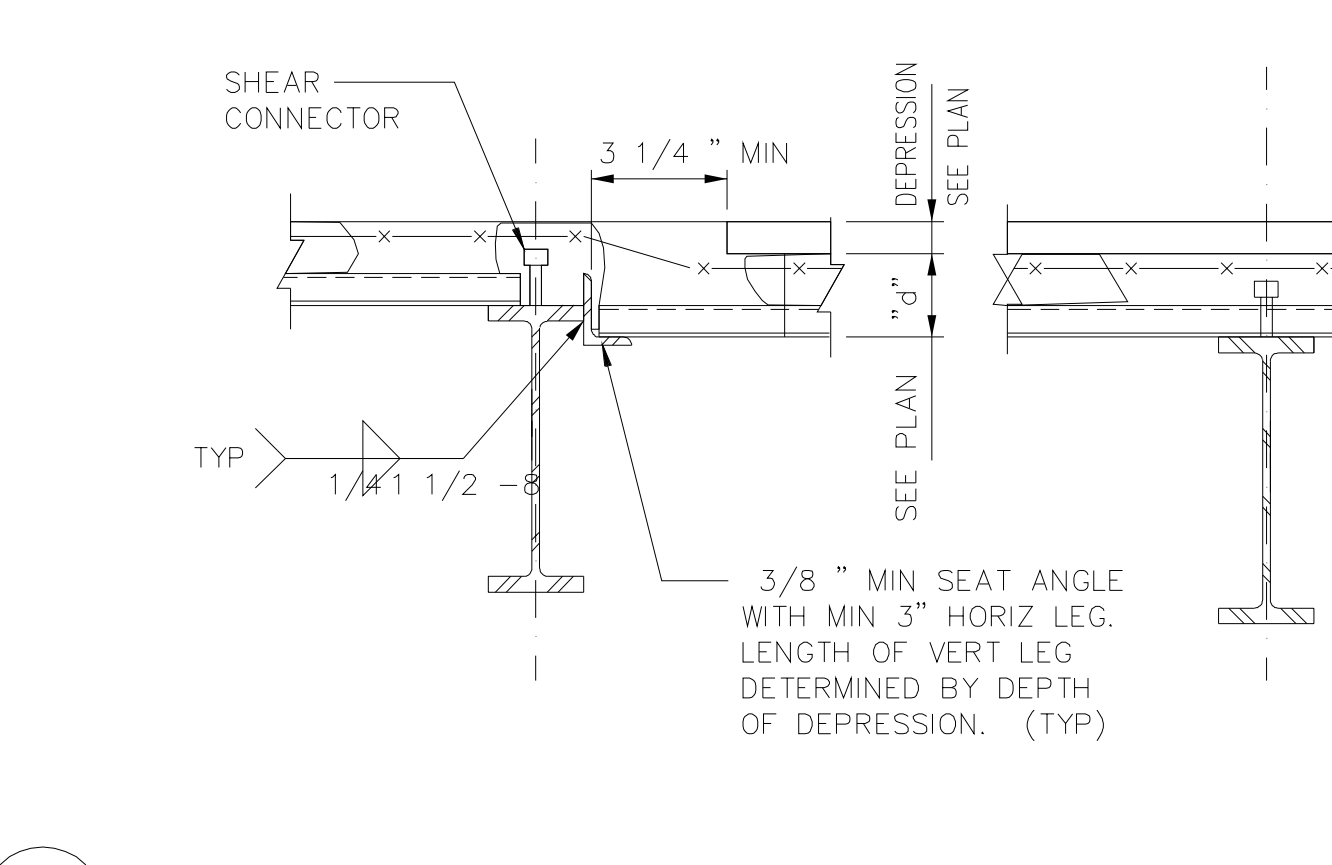
STEEL ANGLE LINTEL SCHEDULE  
HOT DIP GALVANIZED

OPENING	WALL THICKNESS		
	4" WALL	6" WALL	8" WALL
3'-0"	1-L3 1/2 x 3	2-#3x2 7/8 x 2	2-#3 1/2 x 3 1/2 x 1/2 x 1/4
4'-0"	1-L4x3 1/2	2-#3x2 1/2 x 1	2-#4x3 1/2 x 1/4
5'-0"	1-L4x3 1/2	2-#3 1/2 x 2 1/2	2-#3x3 1/2 x 1/4
6'-0"	1-L5x3 1/2	2-#3 1/2 x 2 1/2	2-#3x3 1/2 x 1/4
8'-0"	1-L6x3 1/2	2-#3 1/2 x 2 1/2	2-#3x3 1/2 x 3/8

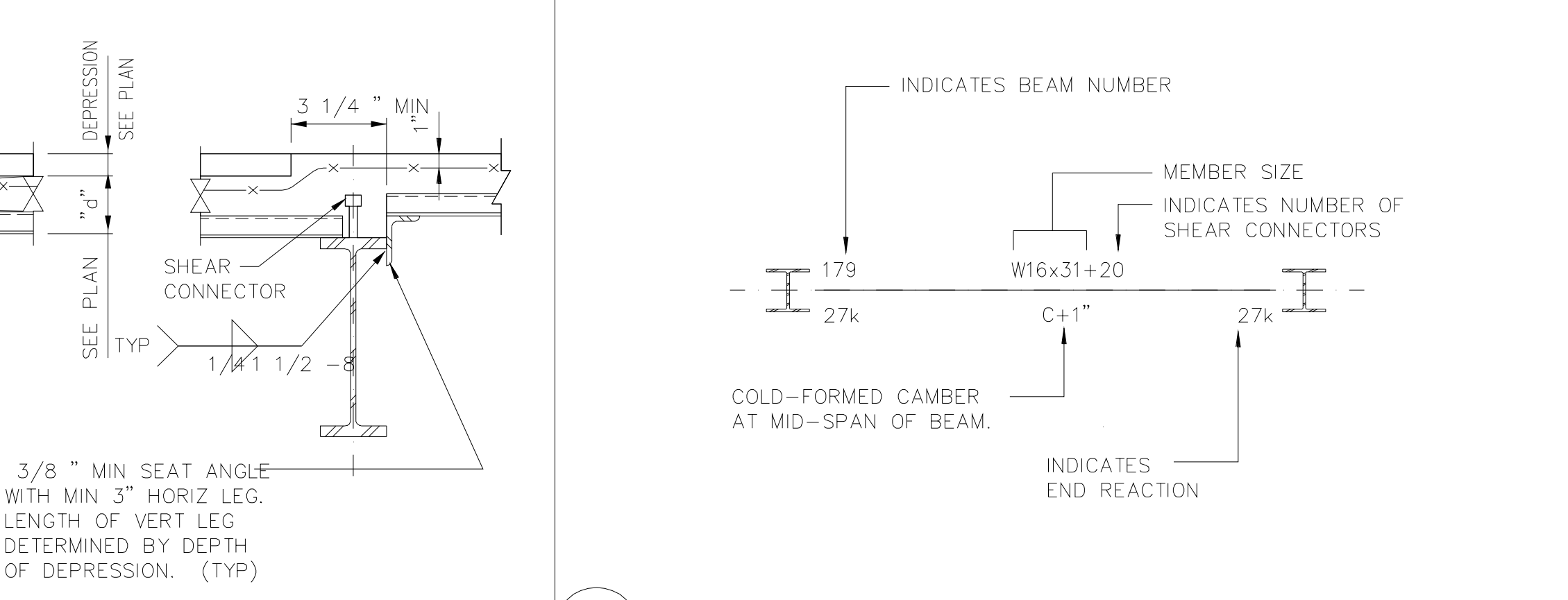
11 BEAM CONNECTION CONDITION



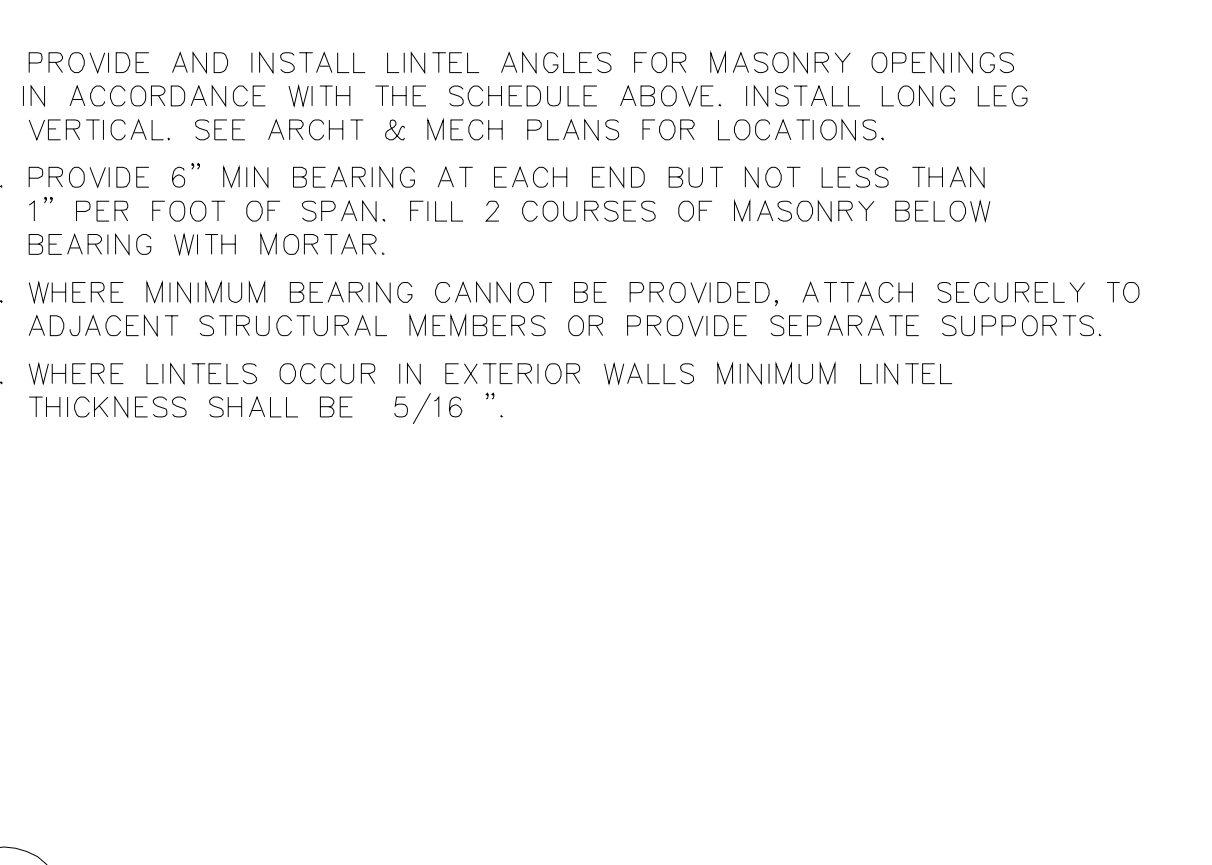
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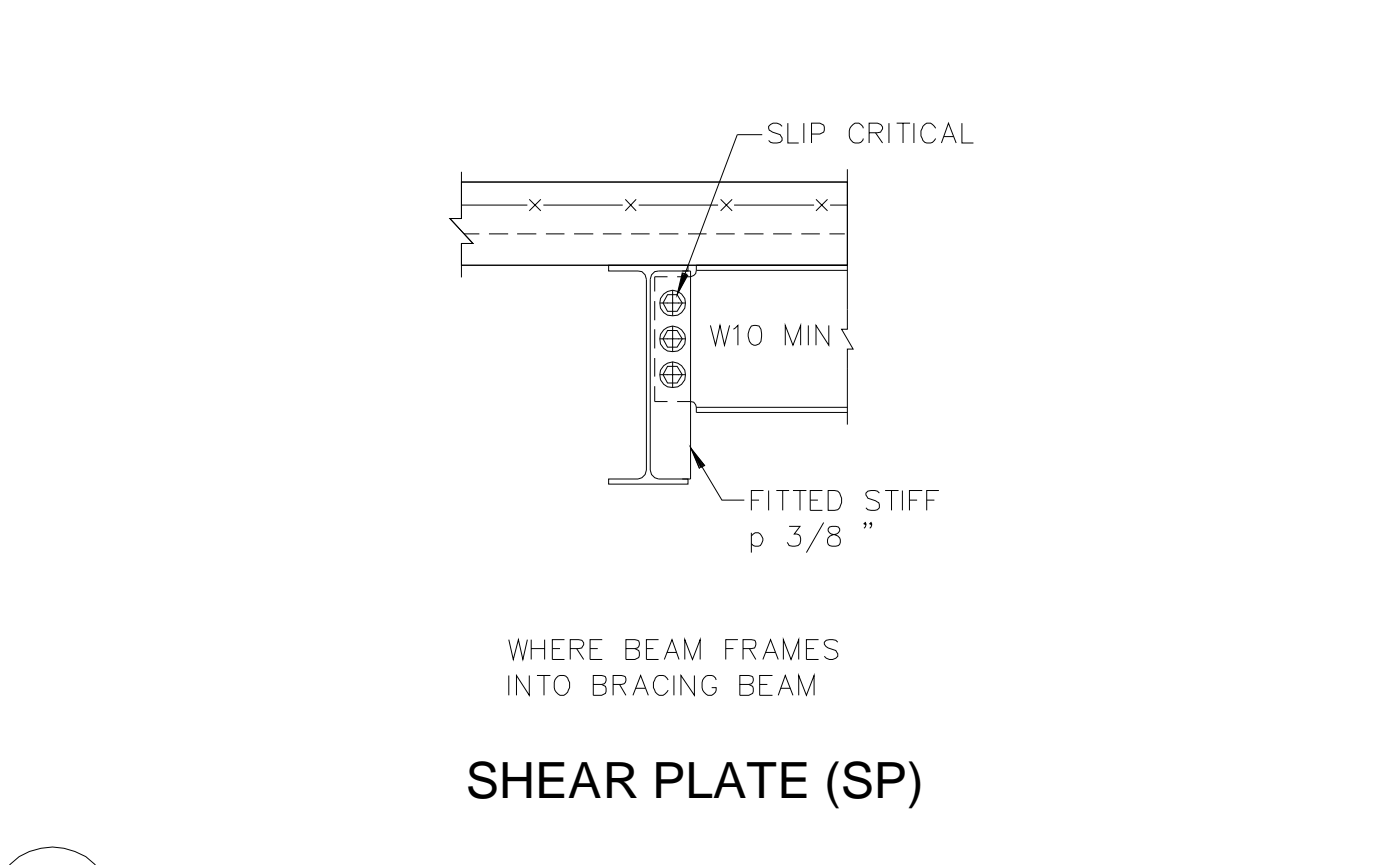
12 STEEL DECK AT CHANGES IN SLAB ELEVATION OR SLAB THICKNESS



13 BEAM EXPLANATION DIAGRAM



14



16

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
no.	revisions/submissions	date

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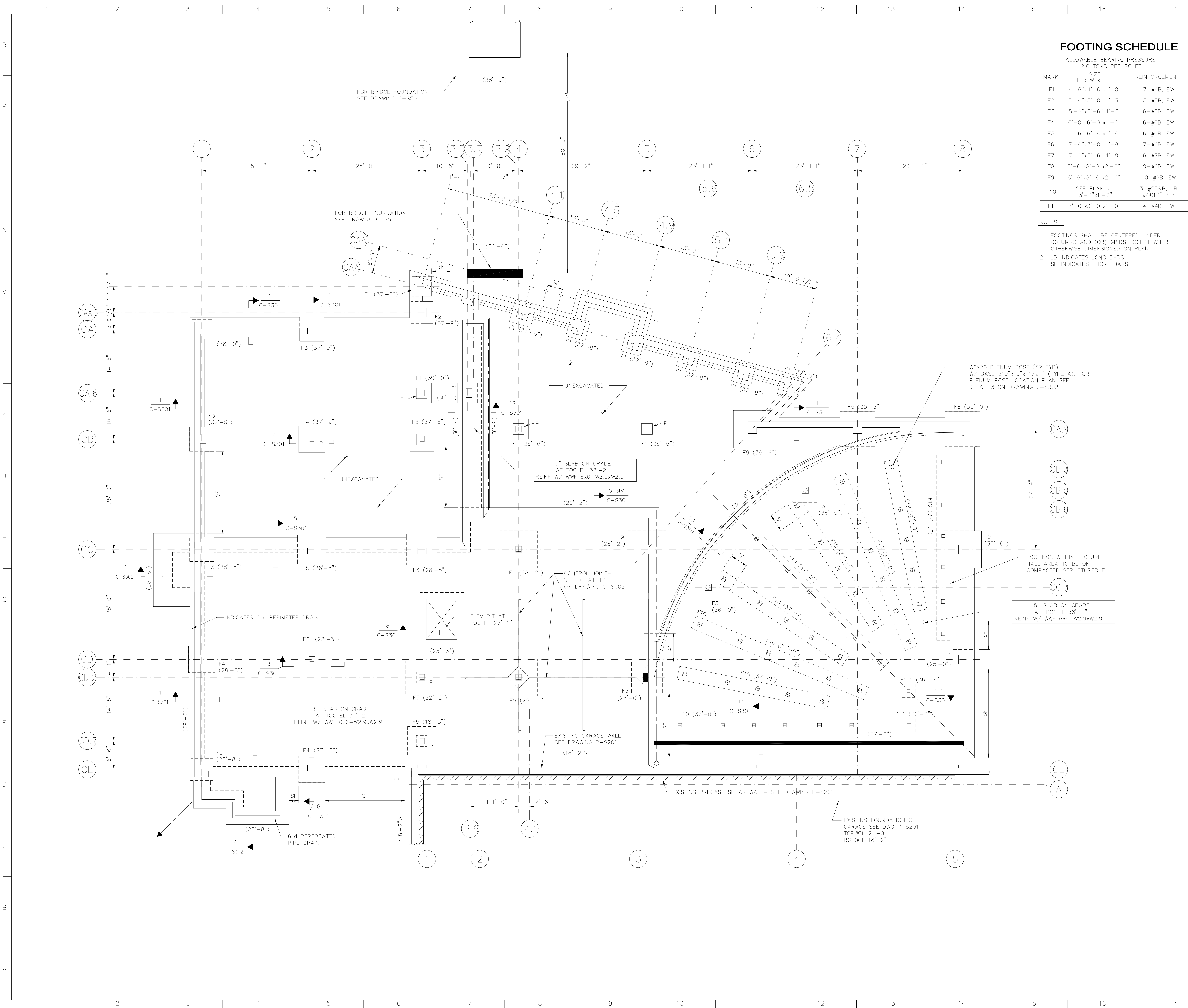
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drawing title **TYPICAL DETAILS**

seal	designed by SKH	project no. 5001024.00
	drawn by EAM	CAD file no.
	checked by AL	drawing no.
	date 01 / 09 / 2004	<b>C-S003</b>
	scale NONE	

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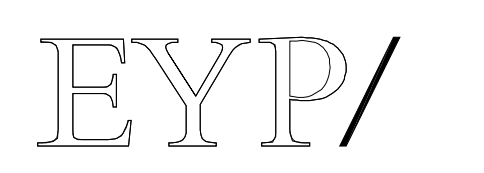
FOOTING SCHEDULE		
ALLOWABLE BEARING PRESSURE 2.0 TONS PER SQ FT		
MARK	SIZE L x W x T	REINFORCEMENT
F1	4'-6" x 4'-6" x 1'-0"	7-#4B, EW
F2	5'-0" x 5'-0" x 1'-3"	5-#5B, EW
F3	5'-6" x 5'-6" x 1'-3"	6-#5B, EW
F4	6'-0" x 6'-0" x 1'-6"	6-#6B, EW
F5	6'-6" x 6'-6" x 1'-6"	6-#6B, EW
F6	7'-0" x 7'-0" x 1'-9"	7-#6B, EW
F7	7'-6" x 7'-6" x 1'-9"	6-#7B, EW
F8	8'-0" x 8'-0" x 2'-0"	9-#6B, EW
F9	8'-6" x 8'-6" x 2'-0"	10-#6B, EW
F10	SEE PLAN x 3'-0" x 1'-2"	3-#5T&B, LB #4@12"
F11	3'-0" x 3'-0" x 1'-0"	4-#4B, EW

- NOTES:
- FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND (OR) GRIDS EXCEPT WHERE OTHERWISE DIMENSIONED ON PLAN.
  - LB INDICATES LONG BARS.  
SB INDICATES SHORT BARS.

- NOTES (FOUNDATION AND BASEMENT):
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING C-S001.  
FOR TYPICAL DETAILS SEE DRAWING C-S002 & C-S003.
  - FOR COLUMN SCHEDULE AND DETAILS SEE DRAWING C-S201.
  - INDICATES COLUMN STARTS.
  - F2, ETC, INDICATES FOOTING TYPE, SEE SCHEDULE THIS DRAWING.
  - <18'-2"> INDICATES EXIST BOTTOM OF FDN ELEVATION.
  - TOP OF WALL FOOTINGS TO MATCH TOP OF COLUMN FOOTINGS.  
SF INDICATES STEPPED FOOTING, SEE DETAIL 8 ON DRAWING C-S002.
  - BR-1, ETC, INDICATES BRACING, FOR ELEVATIONS, MEMBER SIZES AND DETAILS SEE DRAWING C-S202.
  - P INDICATES PIER, SEE DETAIL 7 ON DRAWING C-S301.

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
no.	revisions/submissions	date

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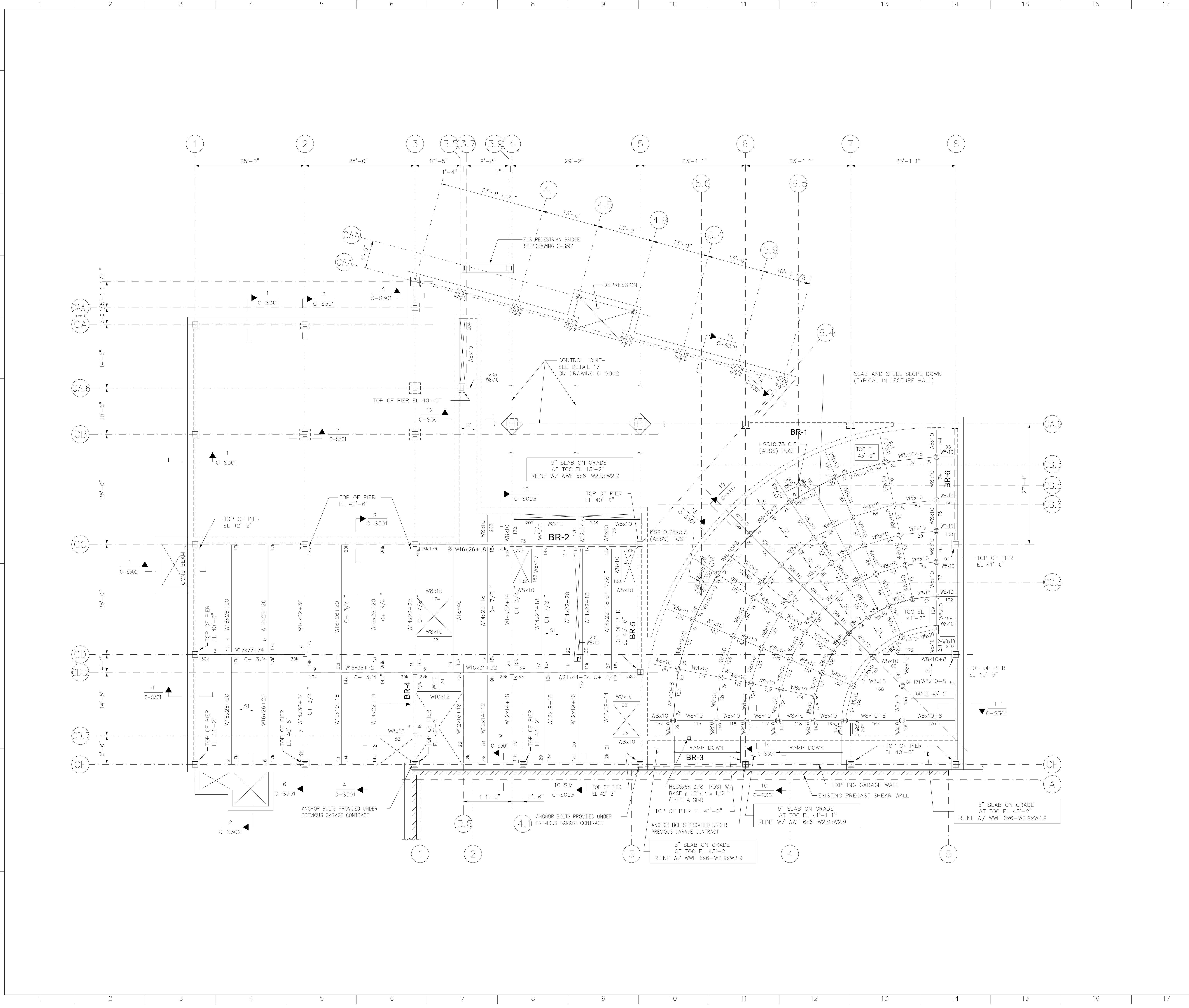
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drawing title		<b>FOUNDATION AND BASEMENT PLAN</b>	
seal	designed by SKH	project no.	5001024.00
	drawn by EAM	CAD file no.	
	checked by AL	drawing no.	<b>C-S100</b>
date	01 / 09 / 2004		
scale	1/8"=1'-0"		

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 LEM #2125 A. LEWIS/ N. MOAN  
 \$LEMC-TIME-STAMPS

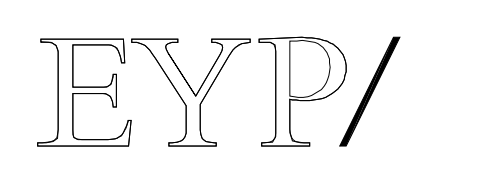


- NOTES (GENERAL):**
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING C-5001.  
FOR TYPICAL DETAILS SEE DRAWING C-5002 & C-5003.
  - FOR COLUMN SCHEDULE AND DETAILS SEE DRAWING C-5201.
  - INDICATES COLUMN STARTS.
    - INDICATES CONTINUOUS COLUMN.
    - ⊕ INDICATES COLUMN STOPS.
  - INDICATES SPAN DIRECTION OF STEEL DECK.
  - BR-1, ETC., INDICATES BRACING, FOR ELEVATIONS, MEMBER SIZES AND DETAILS SEE DRAWING C-5202.
  - INDICATES DOUBLE ANGLE BRACE WHERE SHOWN ON PLAN, SEE DETAIL 15 ON DRAWING C-5003.
  - SP INDICATES SHEAR PLATE DETAIL. SEE DETAIL 16 ON C-5003.
  - AESS INDICATES STEEL MEMBER THAT SHALL CONFORM TO AISC "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL".
  - FOR BEAM EXPLANATION DIAGRAM SEE DRAWING C-5005.
  - BEAMS ARE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.

- NOTES (FIRST FLOOR):**
- S1— INDICATES SLAB CONSTRUCTION SHALL BE 3 1/4" LIGHTWEIGHT CONCRETE ON 2" DEEP, 19 GAGE COMPOSITE STEEL DECK. TOTAL THICKNESS = 5 1/4". REINFORCE SLAB WITH WWF 6x6-W2.9xW2.9.
  - TOP OF STRUCTURAL SLAB AT EL 43'-2".  
TOP OF STRUCTURAL STEEL AT EL 42'-8 3/4". UNLESS NOTED (+) OR (-) ON PLAN.
  - P INDICATES PIER, SEE DETAIL 7 ON DRAWING C-5301.

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
no.	revisions/submissions	date

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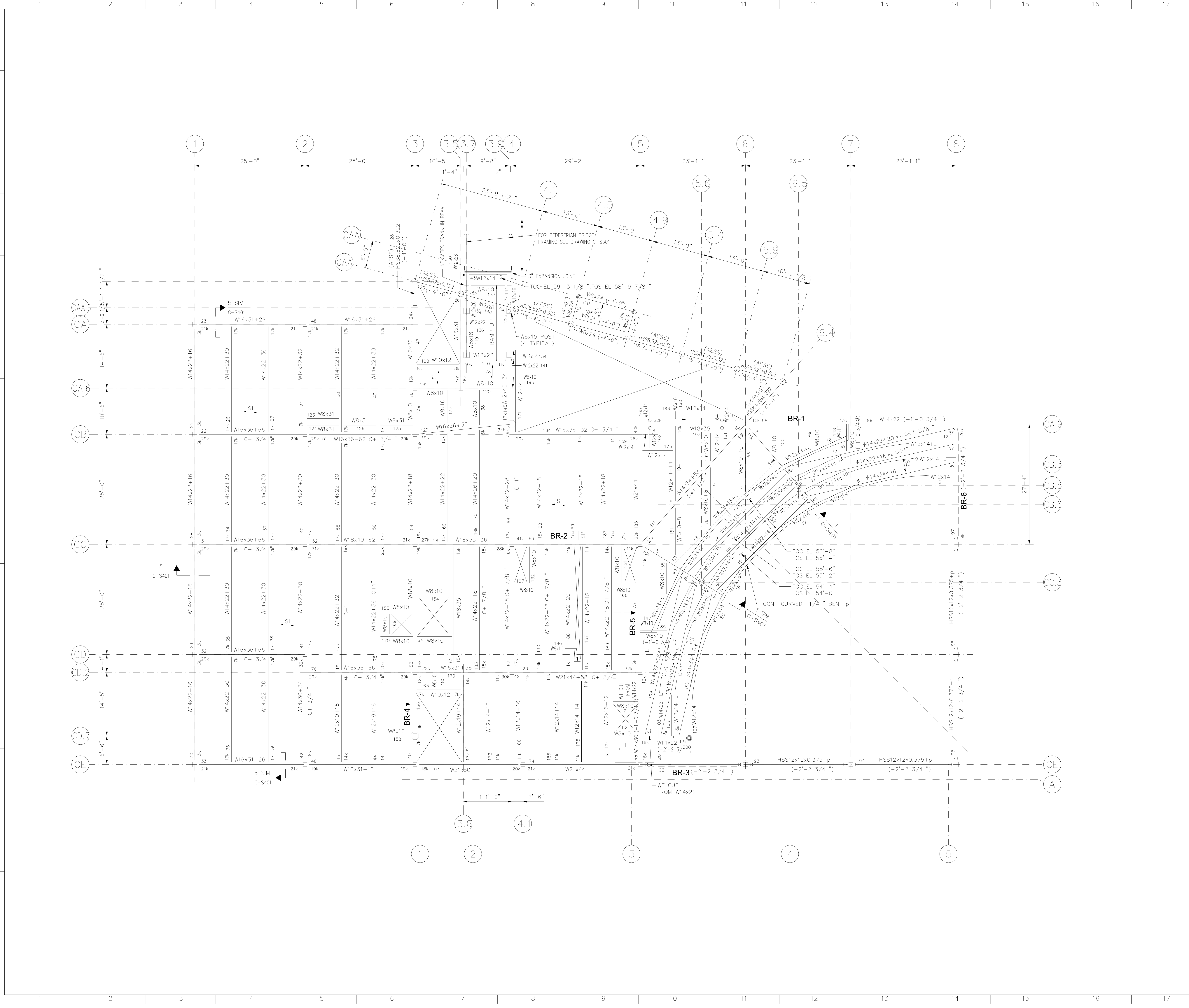


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drawing title			<b>FIRST FLOOR FRAMING PLAN</b>		
seal	designed by	SKH	project no.	5001024.00	
	drawn by	EAM	CAD file no.		
	checked by	AL	drawing no.	<b>C-S101</b>	
	date	01 / 09 / 2006	scale	1/8"=1'-0"	

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- NOTES (GENERAL):**
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING C-5001.  
FOR TYPICAL DETAILS SEE DRAWING C-5002 & C-5003.
  - FOR COLUMN SCHEDULE AND DETAILS SEE DRAWING C-5201.
  - INDICATES COLUMN STARTS.  
INDICATES CONTINUOUS COLUMN.  
INDICATES COLUMN STOPS.
  - INDICATES SPAN DIRECTION OF STEEL DECK.  
INDICATES MOMENT CONNECTION, FOR DETAILS SEE DRAWING C-5003.
  - BR-1, ETC., INDICATES BRACING, FOR ELEVATIONS, MEMBER SIZES AND DETAILS SEE DRAWING C-5202.
  - INDICATES DOUBLE ANGLE BRACE WHERE SHOWN ON PLAN, SEE DETAIL 15 ON DRAWING C-5003.
  - SP INDICATES SHEAR PLATE DETAIL. SEE DETAIL 16 ON C-5003.
  - AESS INDICATES STEEL MEMBER THAT SHALL CONFORM TO AISC "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL".
  - FOR BEAM EXPLANATION DIAGRAM SEE DRAWING C-5005.
  - BEAMS ARE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.

- NOTES (SECOND FLOOR):**
- S1 INDICATES SLAB CONSTRUCTION SHALL BE 3 1/4" LIGHTWEIGHT CONCRETE ON 2" DEEP, 19 GAGE COMPOSITE STEEL DECK. TOTAL THICKNESS = 5 1/4". REINFORCE SLAB WITH WWF 6x6-W2.9xW2.9. TYPICAL UNLESS NOTED OTHERWISE.  
 -S2 INDICATES AREA WHERE SLAB CONSTRUCTION SHALL BE 2" LIGHTWEIGHT CONCRETE ON 2" DEEP, 19 GAGE COMPOSITE STEEL DECK. TOTAL THICKNESS = 4". REINFORCE SLAB WITH WWF 6x6-W2.9xW2.9.  
 -S3 INDICATES AREA WHERE ROOF CONSTRUCTION SHALL BE 1 1/2" DEEP, 20 GA. ROOF DECK.  
 TOP OF STRUCTURAL SLAB AT EL 57'-10"  
 TOP OF STRUCTURAL STEEL AT EL 57'-4 3/4", UNLESS NOTED (+) OR (-) ON PLAN.  
 L INDICATES L3x3 1/4 DECK SUPPORT ANGLE.

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
no.	revisions/submissions	date

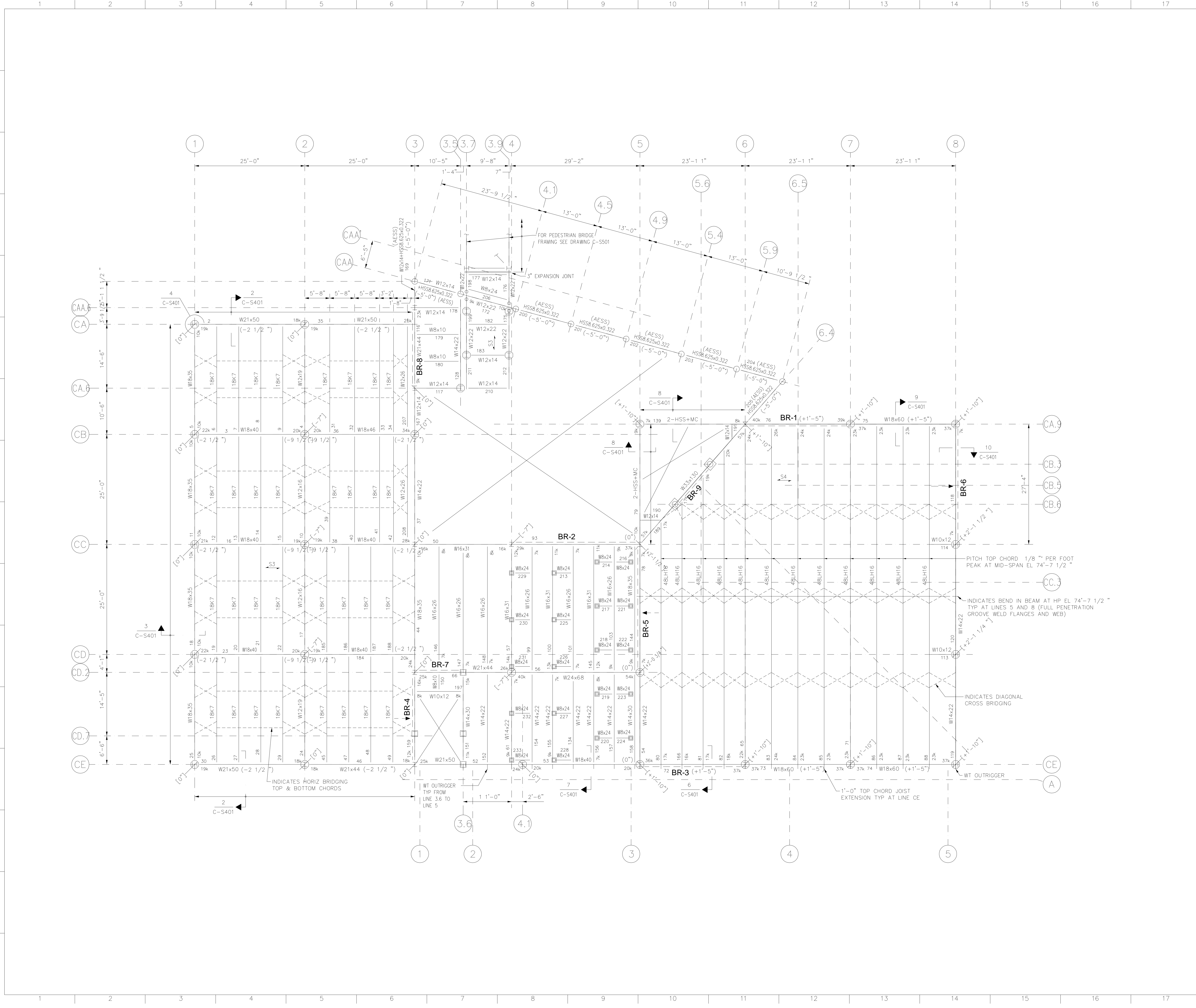
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drawing title	<b>SECOND FLOOR FRAMING PLAN</b>		
seal	designed by	SKH	project no.
	drawn by	EAM	CAD file no.
	checked by	AL	drawing no.
date	01 / 09 / 2004	<b>C-S102</b>	
scale	1/8"=1'-0"		

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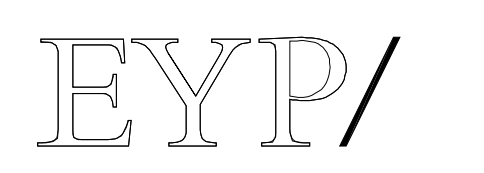


- NOTES (GENERAL):
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING C-S001.  
FOR TYPICAL DETAILS SEE DRAWING C-S002 & C-S003.
  - FOR COLUMN SCHEDULE AND DETAILS SEE DRAWING C-S201.
  - INDICATES COLUMN STARTS.
  - INDICATES COLUMN STOPS.
  - INDICATES SPAN DIRECTION OF STEEL DECK.
  - INDICATES MOMENT CONNECTION, FOR DETAILS SEE DRAWING C-S003.
  - BR-1, ETC., INDICATES BRACING, FOR ELEVATIONS, MEMBER SIZES AND DETAILS SEE DRAWING C-S202.
  - INDICATES DOUBLE ANGLE BRACE WHERE SHOWN ON PLAN, SEE DETAIL 15 ON DRAWING C-S003.
  - SP INDICATES SHEAR PLATE DETAIL. SEE DETAIL 16 ON C-S003.
  - AESS INDICATES STEEL MEMBER THAT SHALL CONFORM TO AISC "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL".
  - FOR BEAM EXPLANATION DIAGRAM SEE DRAWING C-S003.
  - BEAMS ARE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.

- NOTES (ROOF LEVEL):
- INDICATES ROOF CONSTRUCTION SHALL BE 1 1/2" DEEP, 20 GA. ROOF DECK, TYPICAL UNLESS NOTED OTHERWISE.
  - INDICATES AREA WHERE SLAB CONSTRUCTION SHALL BE 2" LIGHTWEIGHT CONCRETE ON 1 1/2" DEEP, 20 GA. COMPOSITE STEEL DECK. TOTAL THICKNESS = 3 1/2". REINF SLAB WITH WWF 6x6-W2.9xW2.9.
  - TOP OF STRUCTURAL STEEL REFERENCE EL 72'-4 1/2".
  - INDICATES BEND IN BEAM AT HP EL 74'-7 1/2" TYP AT LINES 5 AND 8 (FULL PENETRATION GROOVE WELD FLANGES AND WEB).
  - INDICATES DIAGONAL CROSS BRIDGING.

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
no.	revisions/submissions	date

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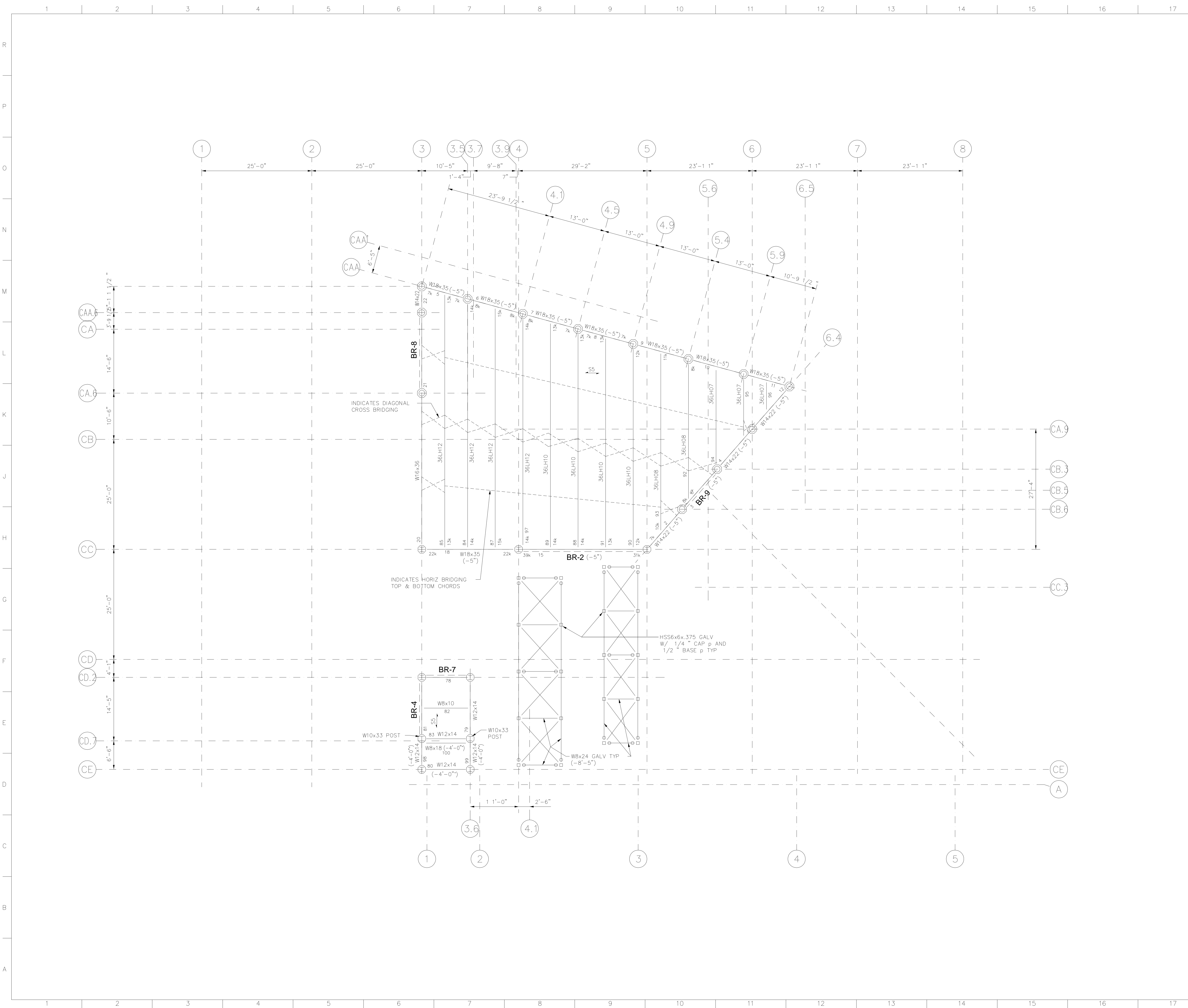


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drawing title		
ROOF FRAMING PLAN		
seal	designed by SKH	project no. 5001024.00
	drawn by EAM	CAD file no.
	checked by AL	drawing no.
date 01/09/04	C-S103	
scale 1/8"=1'-0"		

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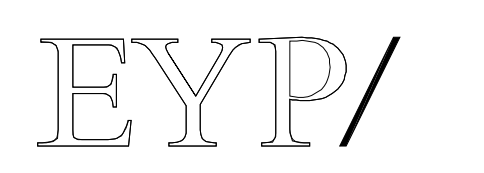


- NOTES (GENERAL):**
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING C-5001  
FOR TYPICAL DETAILS SEE DRAWING C-5002 & C-5003.
  - FOR COLUMN SCHEDULE AND DETAILS SEE DRAWING C-5201.
    - INDICATES COLUMN STARTS.
    - H INDICATES CONTINUOUS COLUMN.
    - ⊕ INDICATES COLUMN STOPS.
  - INDICATES SPAN DIRECTION OF STEEL DECK.
  - INDICATES MOMENT CONNECTION, FOR DETAILS SEE DRAWING C-5003.
  - BR-1, ETC., INDICATES BRACING, FOR ELEVATIONS, MEMBER SIZES AND DETAILS SEE DRAWING C-5202.
  - INDICATES DOUBLE ANGLE BRACE WHERE SHOWN ON PLAN, SEE DETAIL 15 ON DRAWING C-5003.
  - SP INDICATES SHEAR PLATE DETAIL. SEE DETAIL 16 ON C-5003.
  - AESS INDICATES STEEL MEMBER THAT SHALL CONFORM TO AISC "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL".
  - FOR BEAM EXPLANATION DIAGRAM SEE DRAWING C-5005.
  - BEAMS ARE EQUALLY SPACED BETWEEN COLUMNS UNLESS NOTED OTHERWISE.

- NOTES (HIGH ROOF LEVEL):**
- SS INDICATES ROOF CONSTRUCTION SHALL BE 1 1/2" DEEP, 18 GA. ROOF DECK.
  - TOP OF STRUCTURAL STEEL REFERENCE EL 83'-5". [-6"], ETC. INDICATES DISTANCE FROM REFERENCE ELEVATION TO TOP OF STEEL OF ALL BEAMS FRAMING INTO COLUMN UNLESS NOTED OTHERWISE ("X"). TOP OF STEEL FILLER BEAM ELEVATION SHALL BE FLUSH WITH GIRDERS, UNLESS NOTED OTHERWISE ("X").
  - COORDINATE ALL DIMENSIONS WITH EQUIPMENT MANUFACTURER BEFORE FABRICATING STRUCTURAL STEEL DUNNAGE.

2	GMP DOCUMENTS	01/19/04
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no.	revisions/submissions	date

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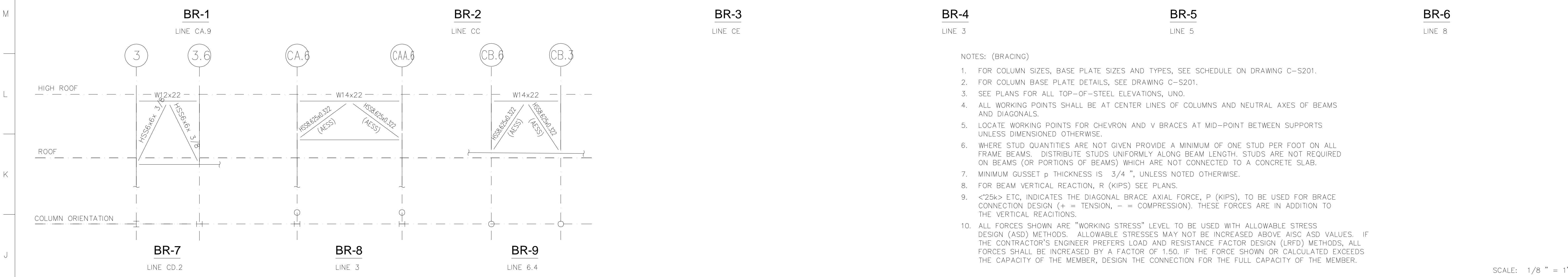
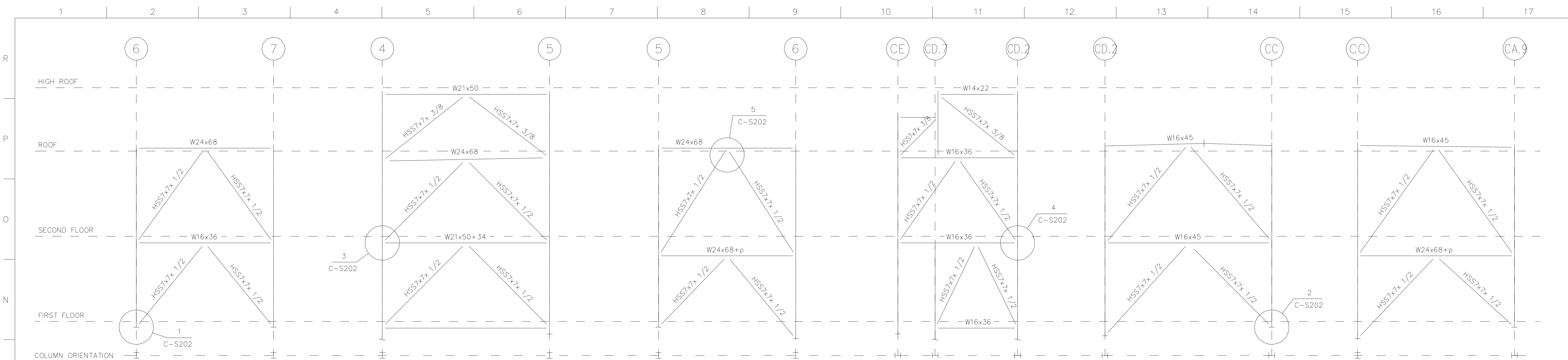
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drawing title		<b>HIGH ROOF FRAMING PLAN</b>	
seal	designed by SKH	project no.	5001024.00
	drawn by EAM	CAD file no.	
	checked by AL	drawing no.	
date	01 / 09 / 2004	<b>C-S104</b>	
scale	1/8"=1'-0"		

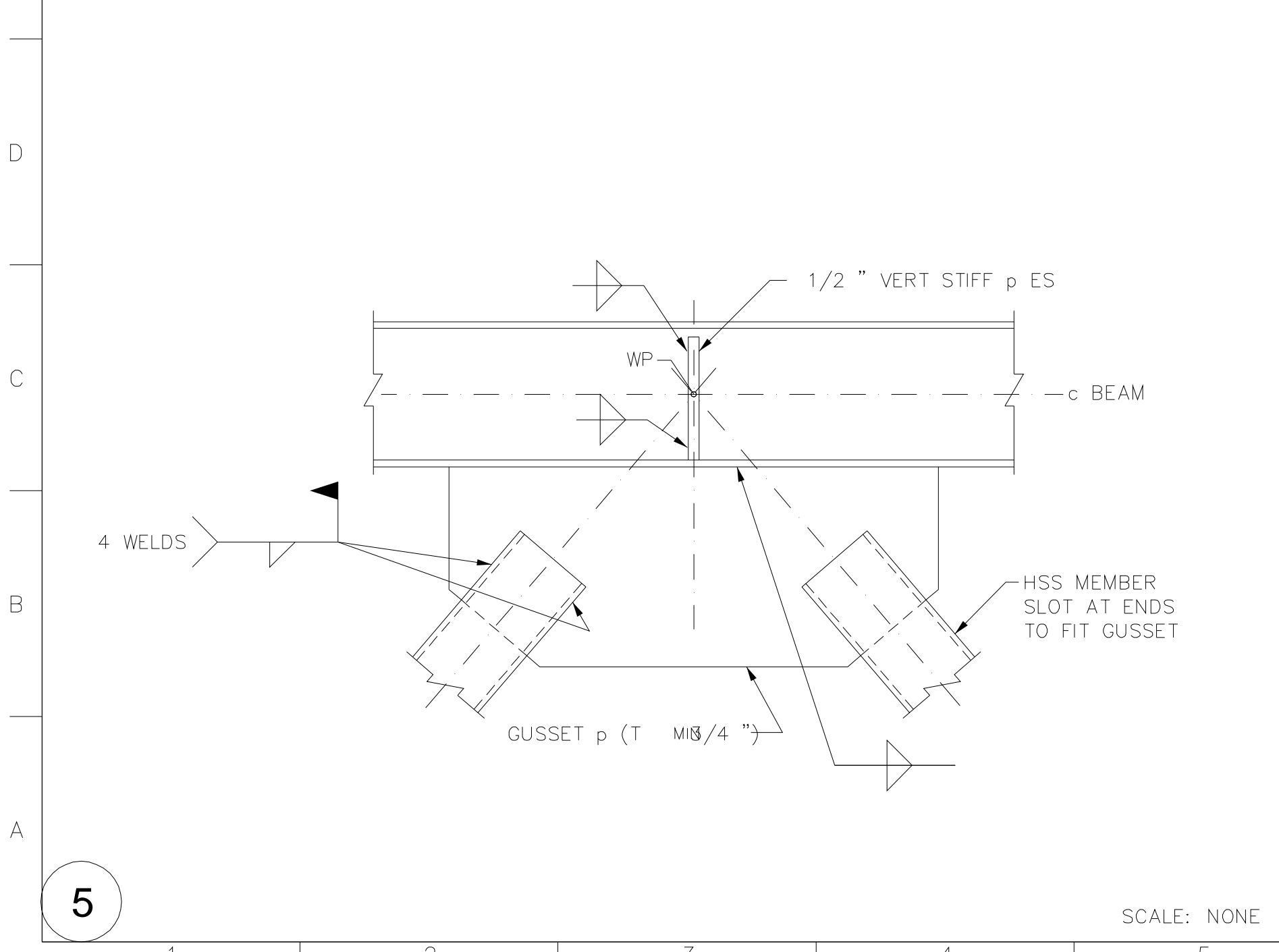
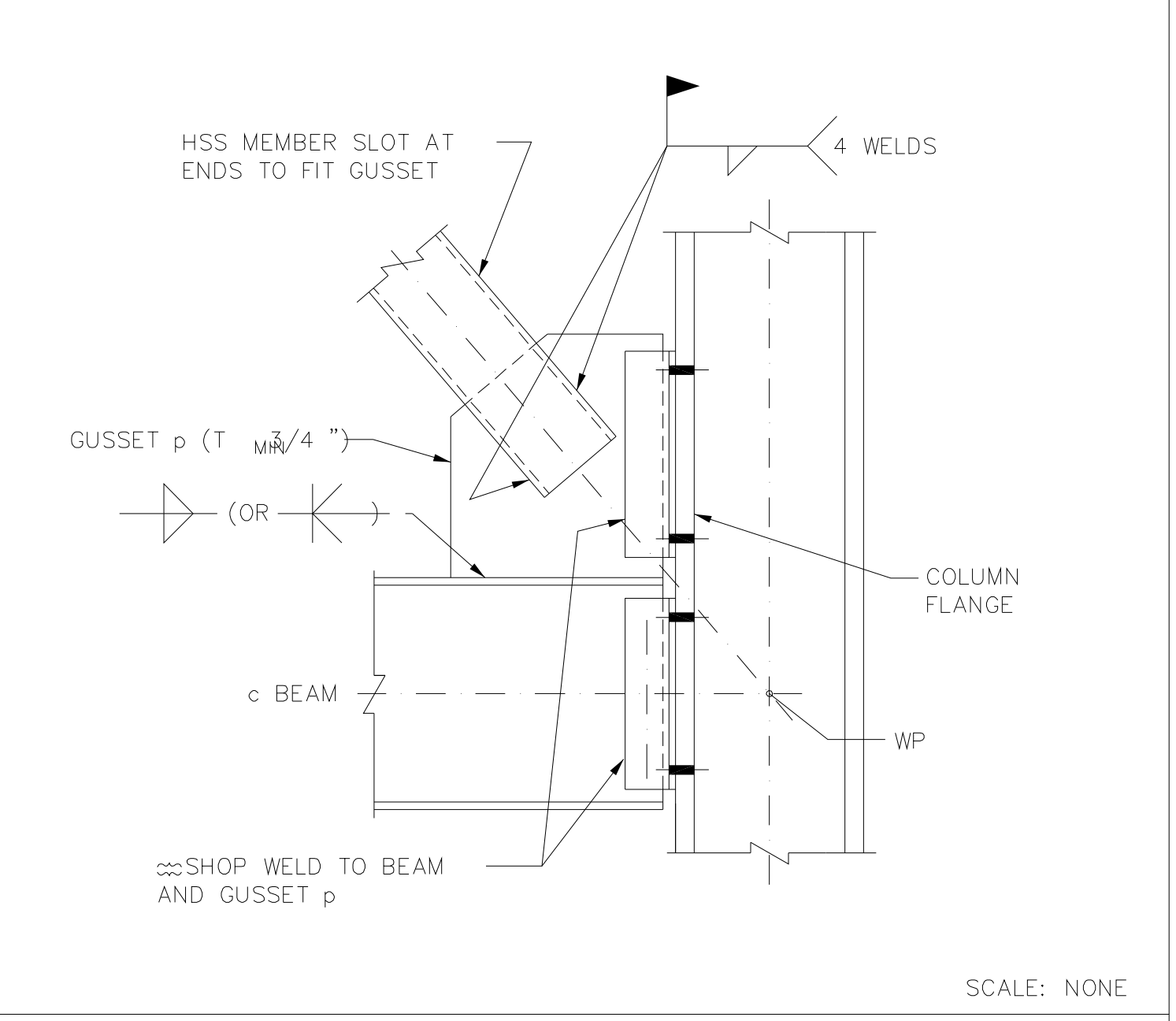
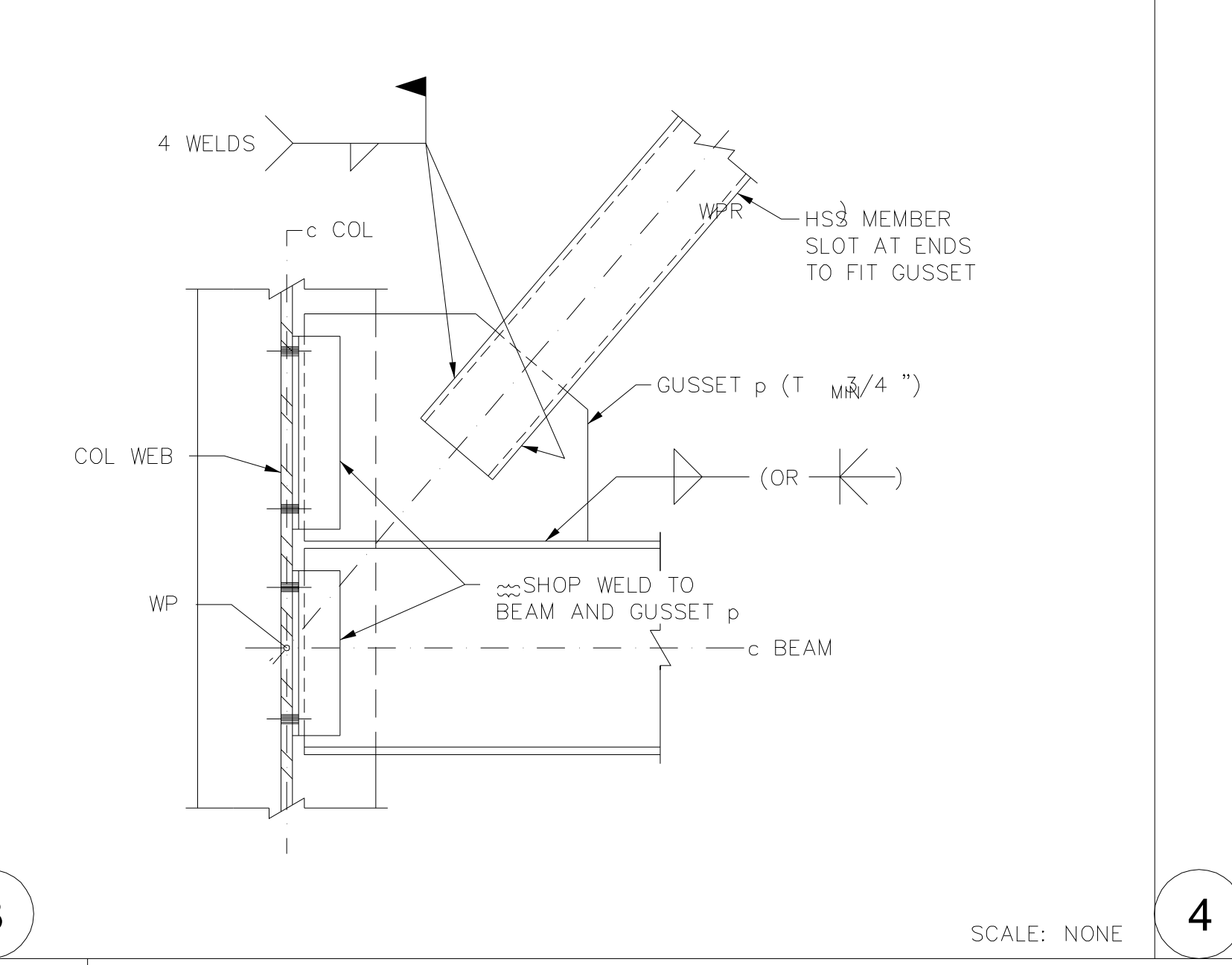
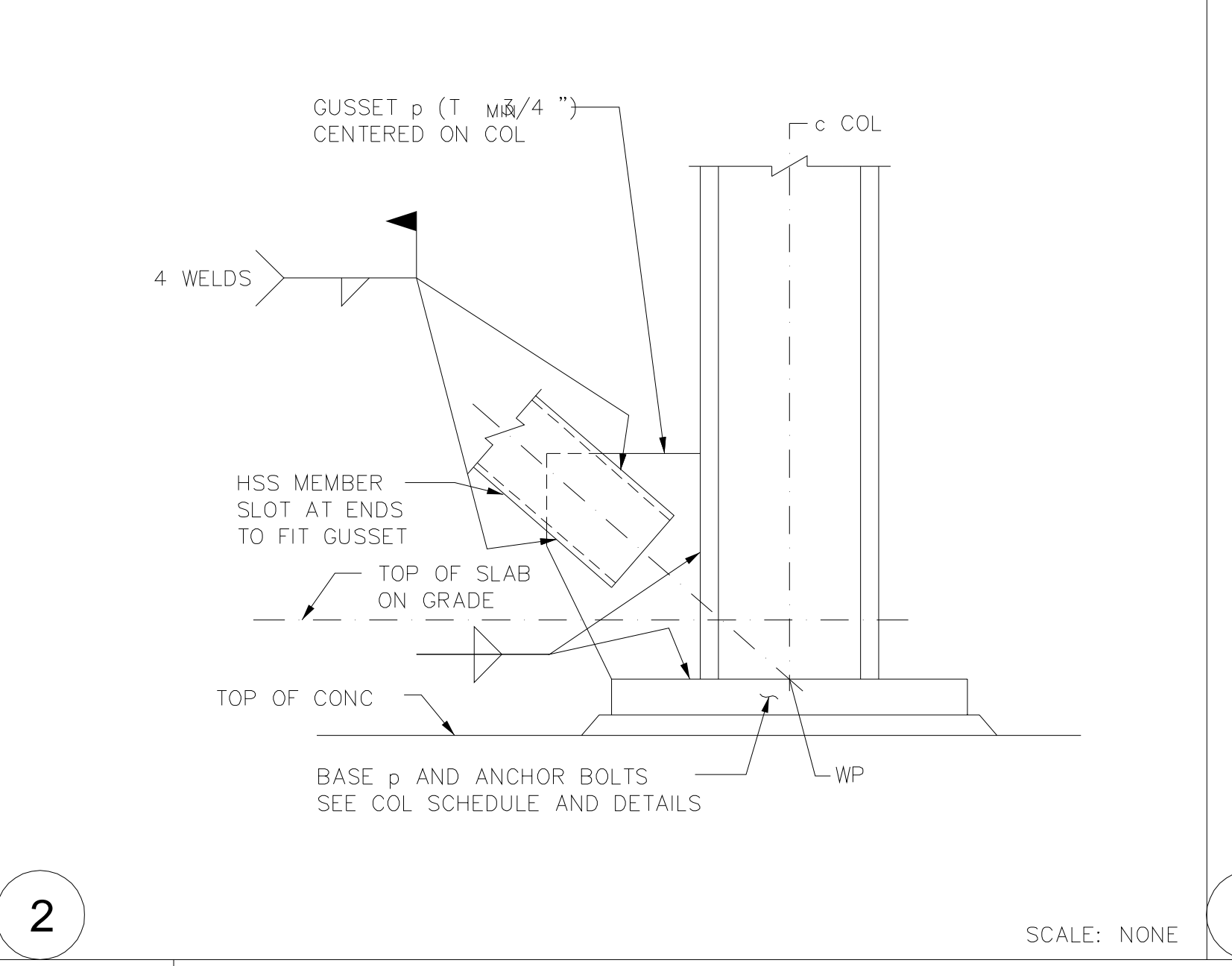
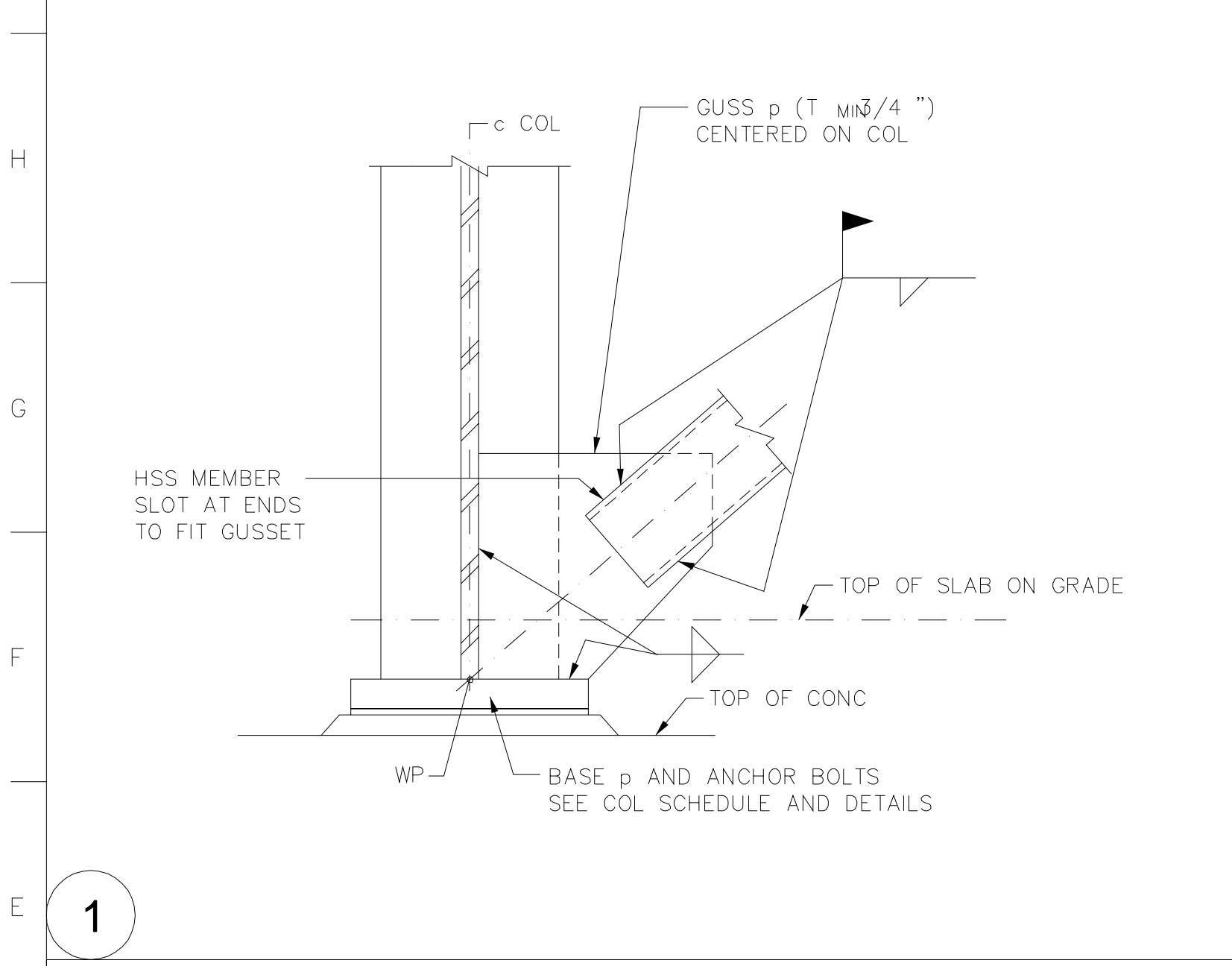






- NOTES: (BRACING)
- FOR COLUMN SIZES, BASE PLATE SIZES AND TYPES, SEE SCHEDULE ON DRAWING C-S201.
  - FOR COLUMN BASE PLATE DETAILS, SEE DRAWING C-S201.
  - SEE PLANS FOR ALL TOP-OF-STEEL ELEVATIONS, UNO.
  - ALL WORKING POINTS SHALL BE AT CENTER LINES OF COLUMNS AND NEUTRAL AXES OF BEAMS AND DIAGONALS.
  - LOCATE WORKING POINTS FOR CHEVRON AND V BRACES AT MID-POINT BETWEEN SUPPORTS UNLESS DIMENSIONED OTHERWISE.
  - WHERE STUD QUANTITIES ARE NOT GIVEN PROVIDE A MINIMUM OF ONE STUD PER FOOT ON ALL FRAME BEAMS. DISTRIBUTE STUDS UNIFORMLY ALONG BEAM LENGTH. STUDS ARE NOT REQUIRED ON BEAMS (OR PORTIONS OF BEAMS) WHICH ARE NOT CONNECTED TO A CONCRETE SLAB.
  - MINIMUM GUSSET  $p$  THICKNESS IS  $3/4"$ , UNLESS NOTED OTHERWISE.
  - FOR BEAM VERTICAL REACTION,  $R$  (KIPS) SEE PLANS.
  - $<25k>$  ETC. INDICATES THE DIAGONAL BRACE AXIAL FORCE,  $P$  (KIPS), TO BE USED FOR BRACE CONNECTION DESIGN (+ = TENSION, - = COMPRESSION). THESE FORCES ARE IN ADDITION TO THE VERTICAL REACTIONS.
  - ALL FORCES SHOWN ARE "WORKING STRESS" LEVEL TO BE USED WITH ALLOWABLE STRESS DESIGN (ASD) METHODS. ALLOWABLE STRESSES MAY NOT BE INCREASED ABOVE AISC ASD VALUES. IF THE CONTRACTOR'S ENGINEER PREFERENCES LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODS, ALL FORCES SHALL BE INCREASED BY A FACTOR OF 1.50, IF THE FORCE SHOWN OR CALCULATED EXCEEDS THE CAPACITY OF THE MEMBER, DESIGN THE CONNECTION FOR THE FULL CAPACITY OF THE MEMBER.

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

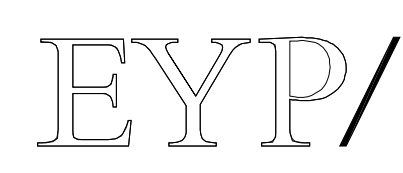


- NOTES: (BRACING CONNECTION DESIGN)
- ANALYSIS AND DESIGN PROCEDURE SHALL FOLLOW THE UNIFORM FORCE METHOD AS SHOWN IN THE AISC LRFD MANUAL OF STEEL CONSTRUCTION VOLUME II - CONNECTIONS, 2ND EDITION, P. 11-20 TO 11-48.
  - NON-UNIFORM FORCES ON THE GUSSET INTERFACES ARE ALLOWED; HOWEVER, ANY ECCENTRICITY MUST BE TAKEN OUT IN THE GUSSET-TO-BEAM OR GUSSET-TO-BASE  $p$  WELD. SEE P. 11-26 & 11-27 IN THE AISC MANUAL.
  - AT TWO-SIDED CONDITIONS, COLUMN-TO-BASEPLATE WELD SHOULD BE SIZED BASED ON WORST CASE CONDITION WHERE BRACE FORCES HAVE OPPOSITE SIGNS, I.E., LEFT = COMPRESSION, RIGHT = TENSION OR VICE-VERSA.
  - AT CORNER CONDITIONS, COLUMN-TO-BASEPLATE WELD SHOULD BE SIZED BASED ON WORST DIRECTION LOAD CASE, I.E. SIMULTANEOUS LOADING IN BOTH DIRECTIONS NEED NOT BE CONSIDERED.
  - TWO-SIDED BEAM/COLUMN CONDITIONS SHOULD BE ANALYZED AS TWO INDEPENDENT ONE-SIDED CONDITIONS.
  - AXIAL BEAM/COLUMN THRU-FORCES, INDICATED BY  $H = 50k$ , ETC., SHOWN ON PLANS OR ELEVATIONS SHALL BE ADDED TO FORCES GENERATED BY THE DIAGONAL BRACE FORCES,  $P$ , AND THE BEAM END REACTIONS,  $R$ , FOR DESIGN OF THE BEAM-TO-COLUMN CONNECTION.
  - PRIOR TO THE SUBMITTAL OF ANY PIECE SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL SAMPLE CONNECTION DESIGN CALCULATIONS FOR REPRESENTATIVE CONNECTION TYPES TO BE DETAILED. CALCULATIONS SHALL BE PREPARED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.
  - DETAIL GUSSET  $p$ 'S AND BRACE MEMBERS TO PROVIDE ADEQUATE ERECTION TOLERANCE.

SCALE: NONE

2	GMP DOCUMENTS	01/19/04
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no.	revisions/submissions	date

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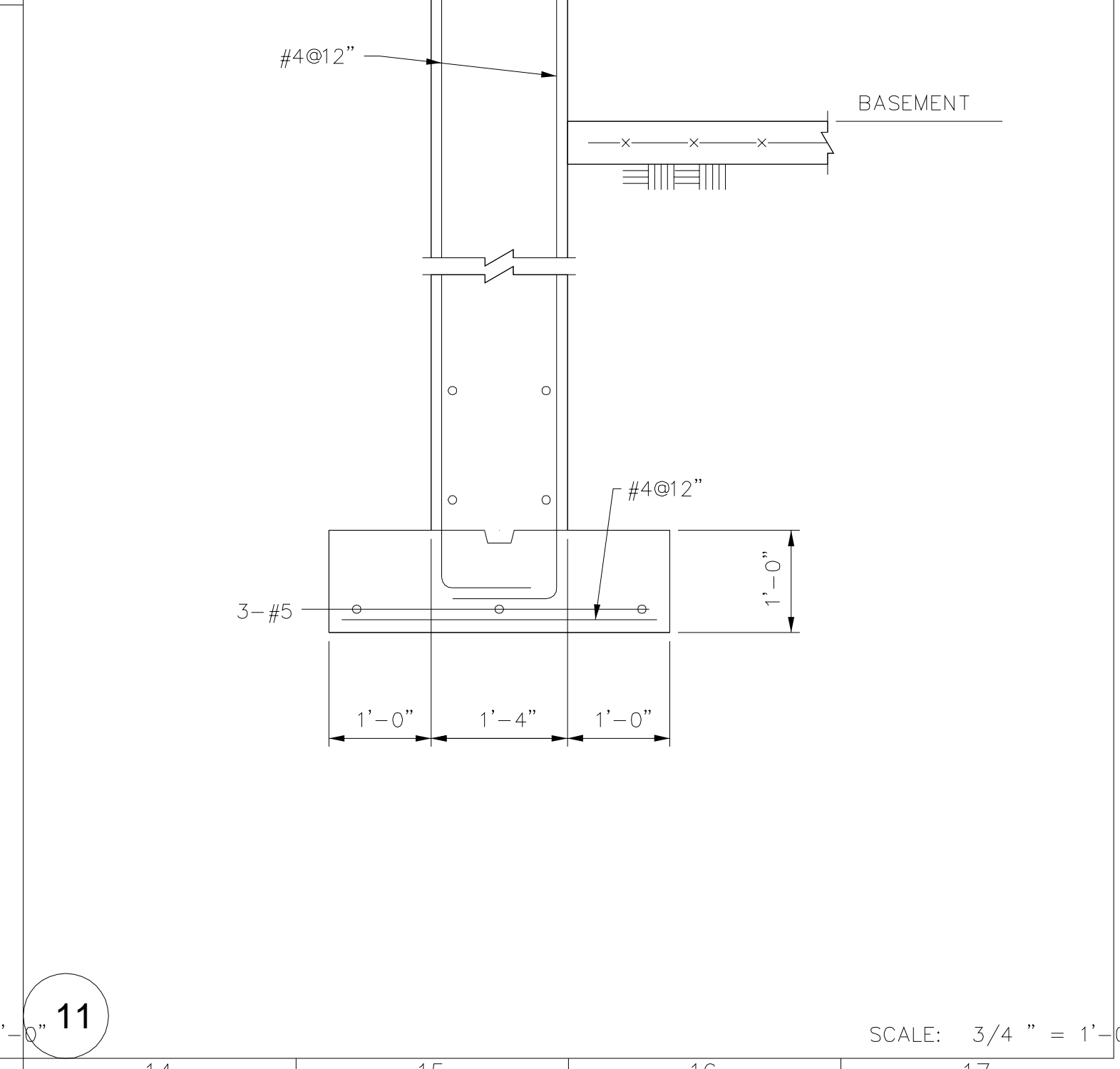
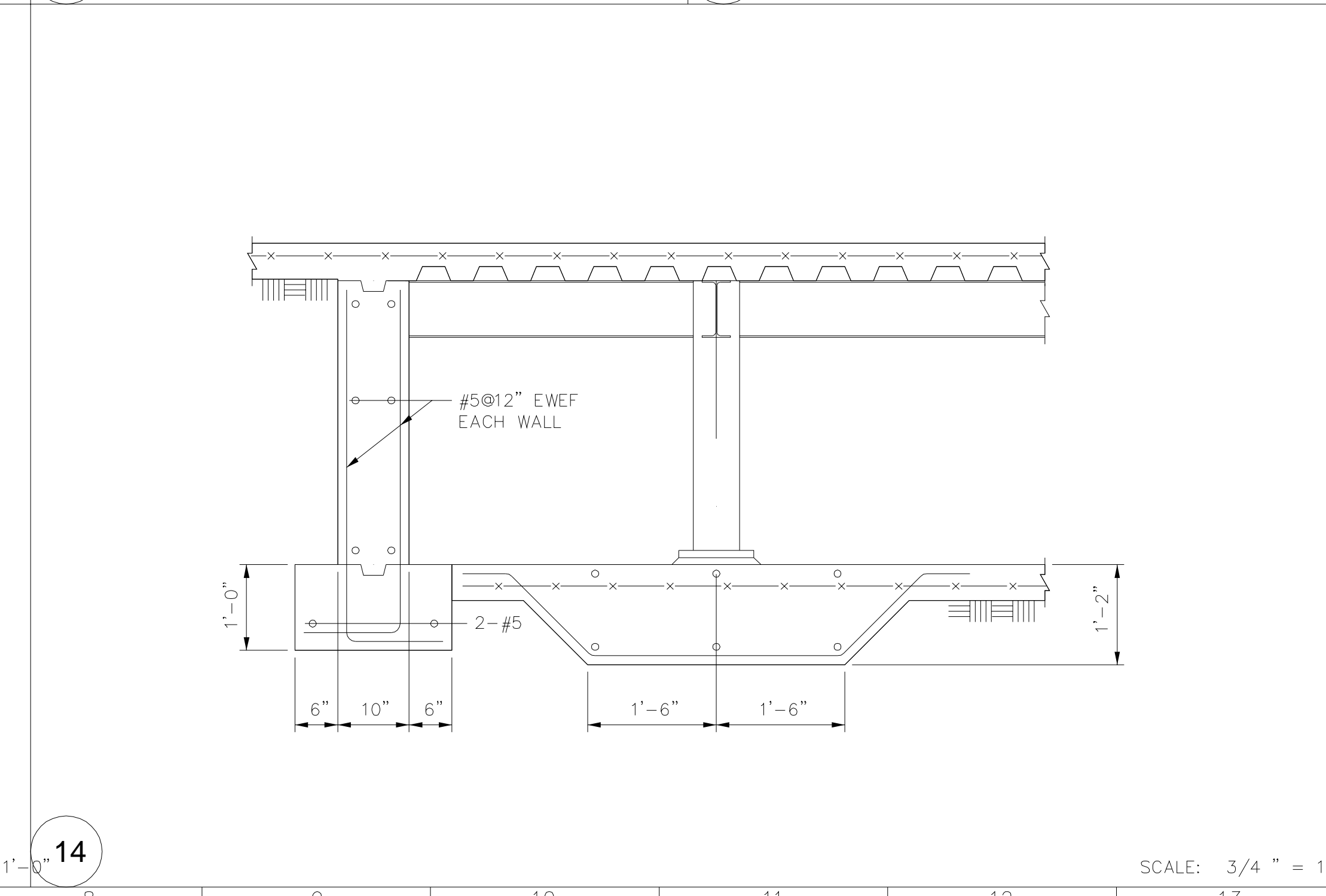
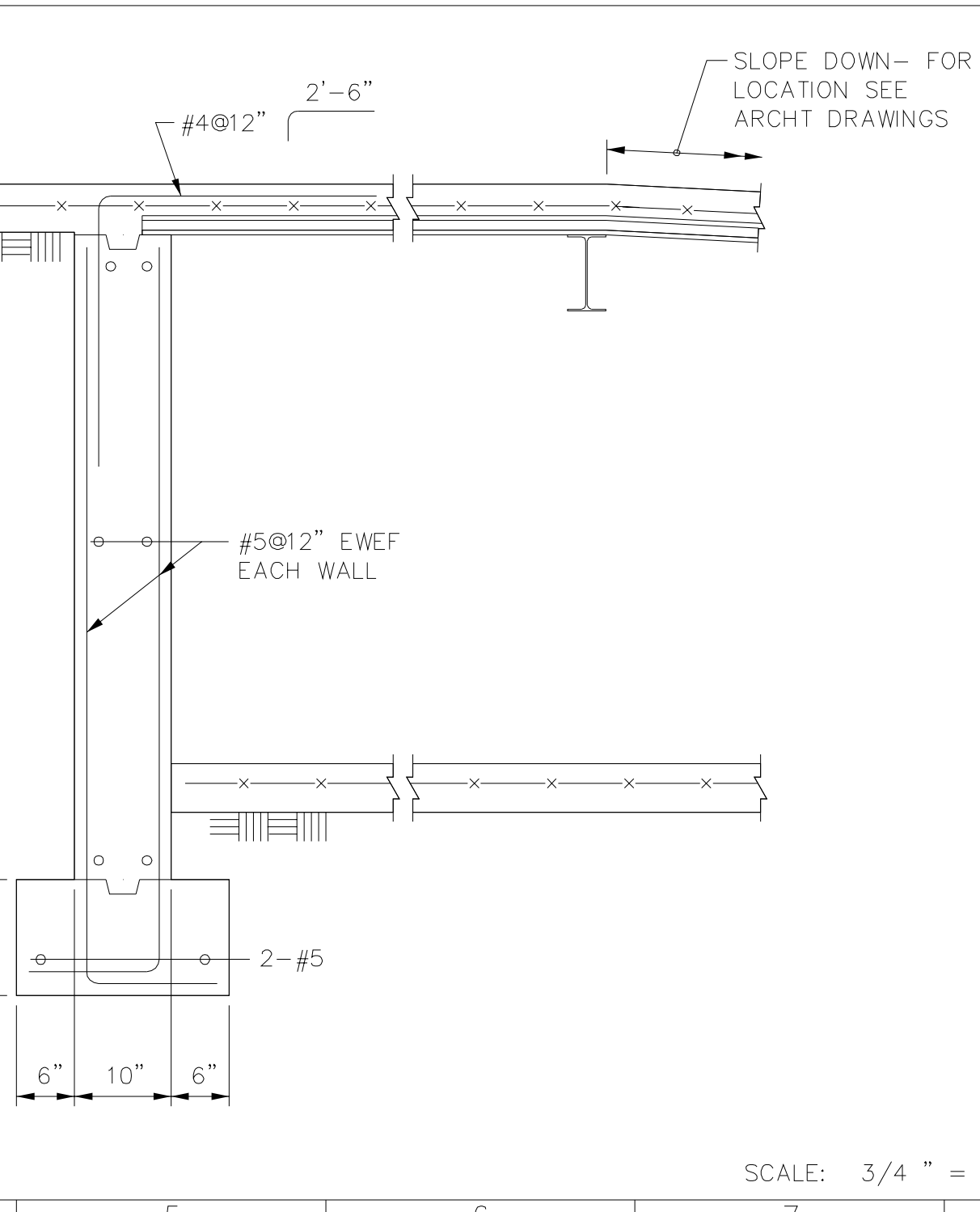
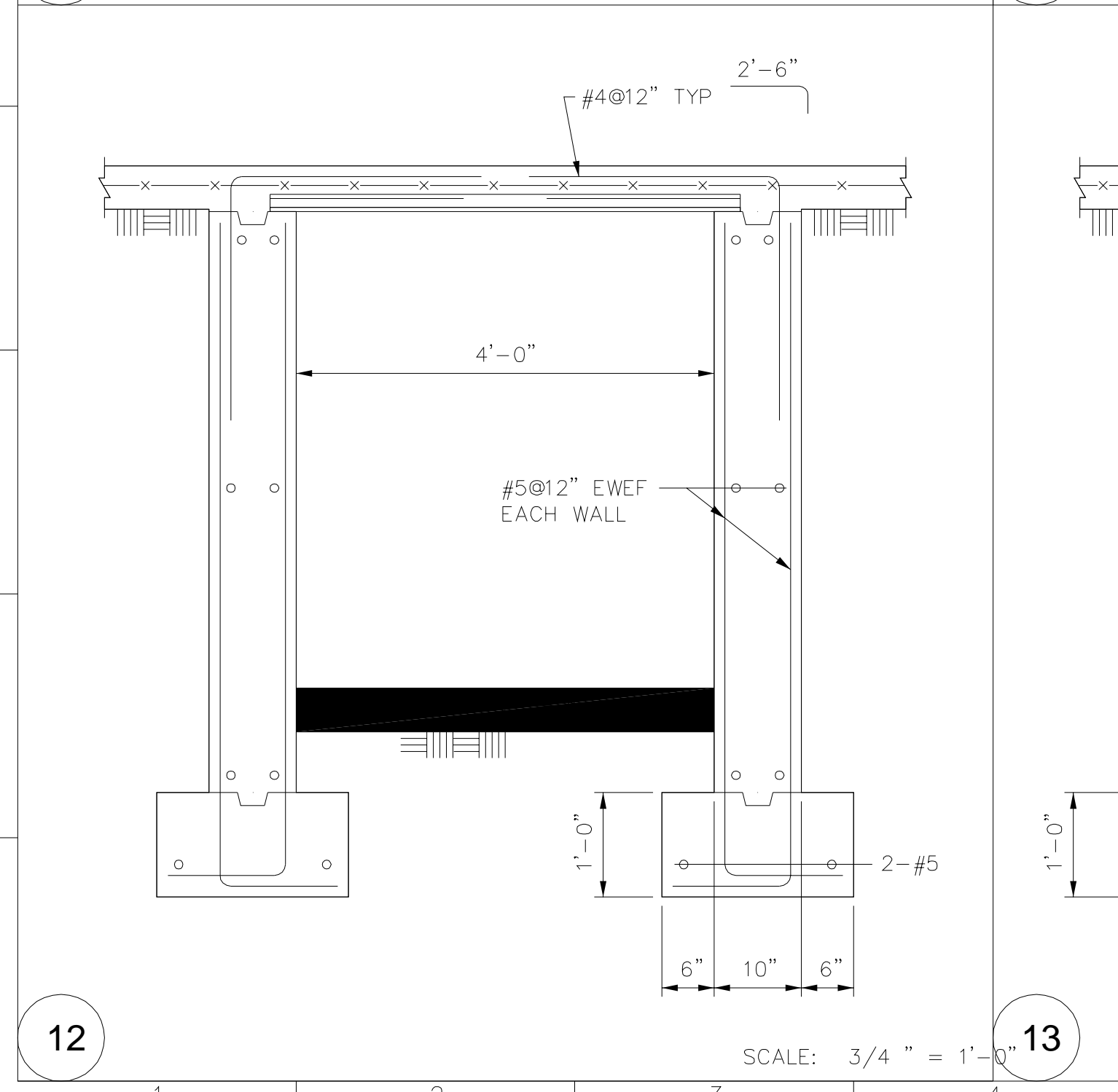
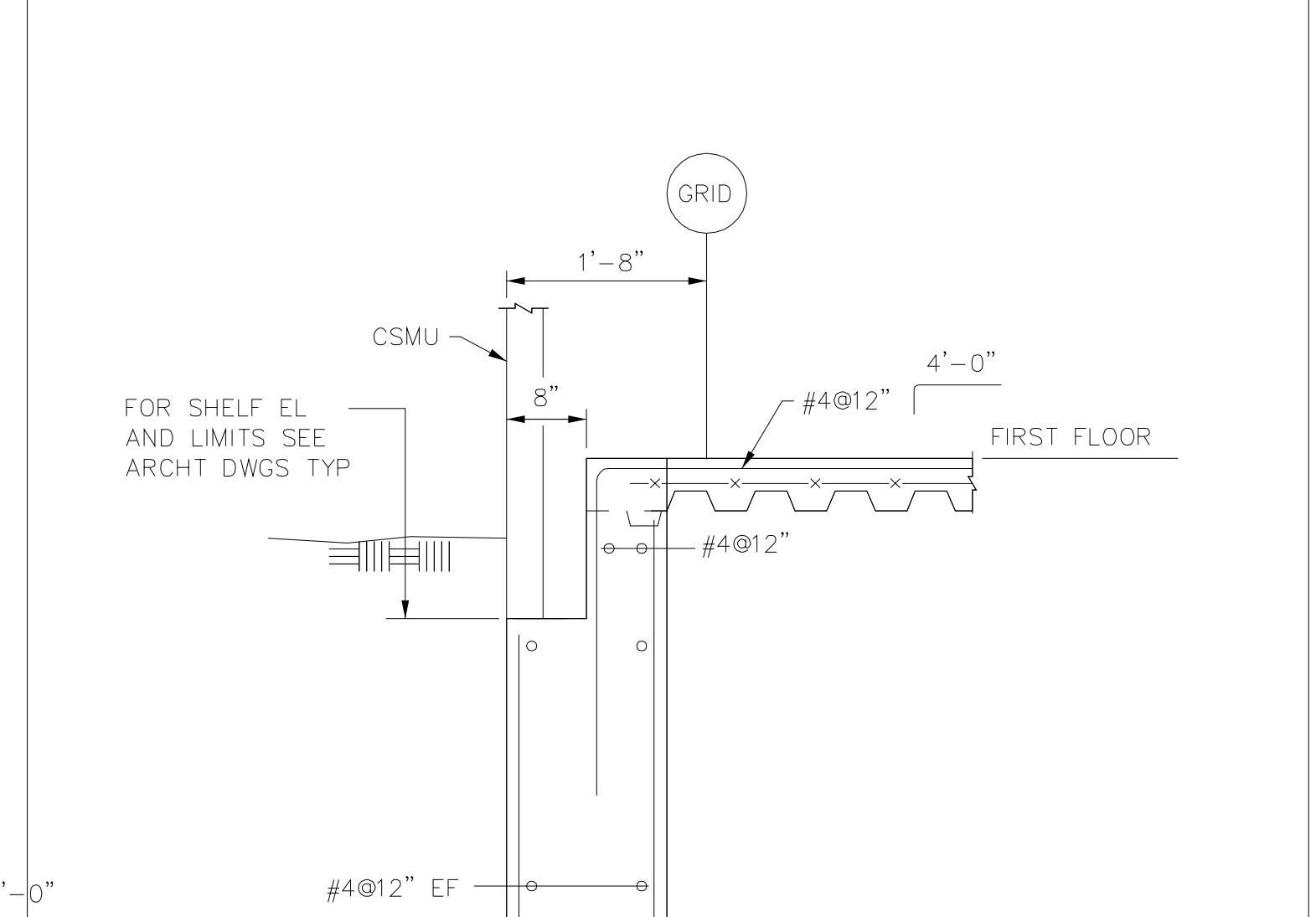
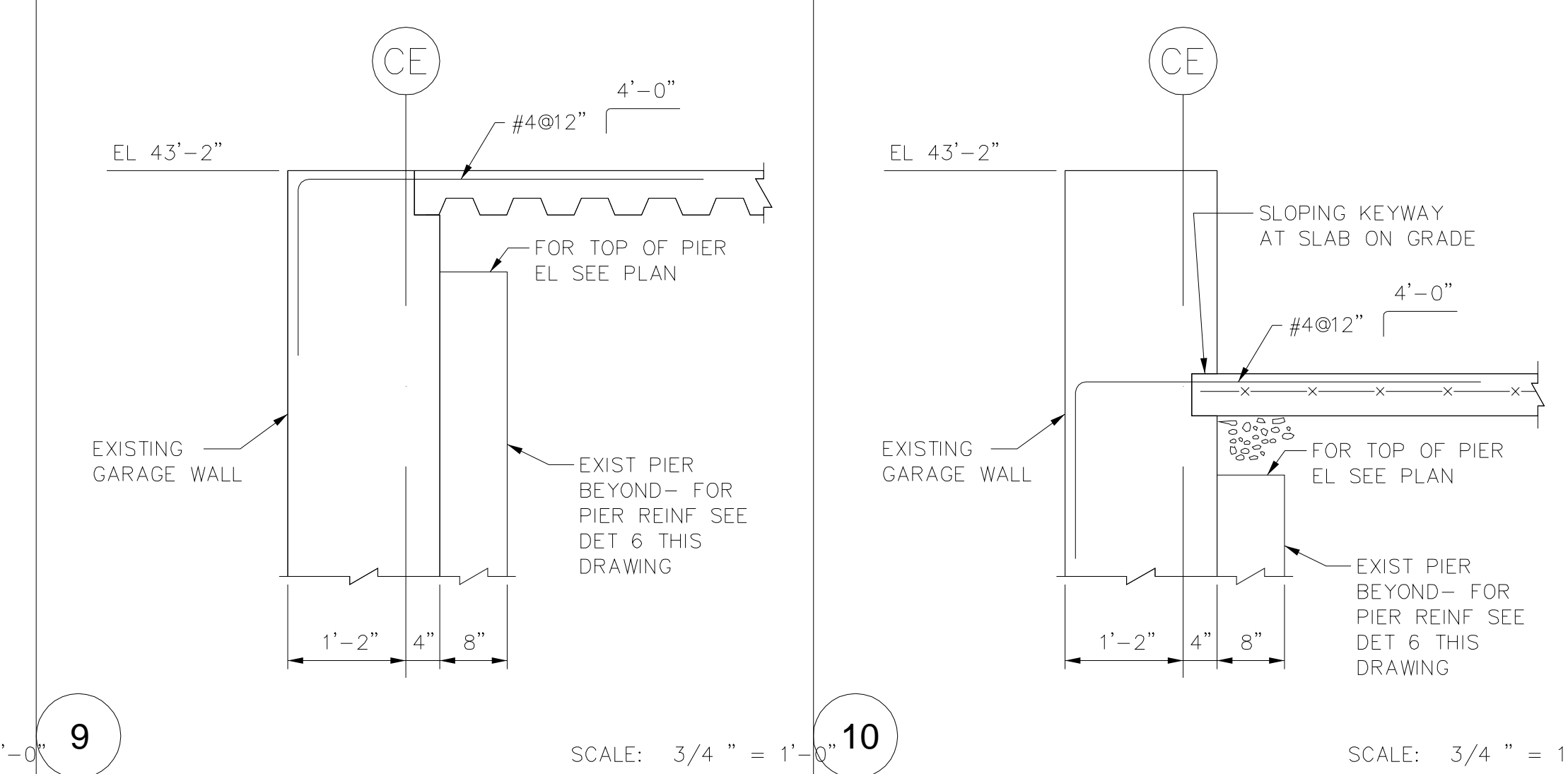
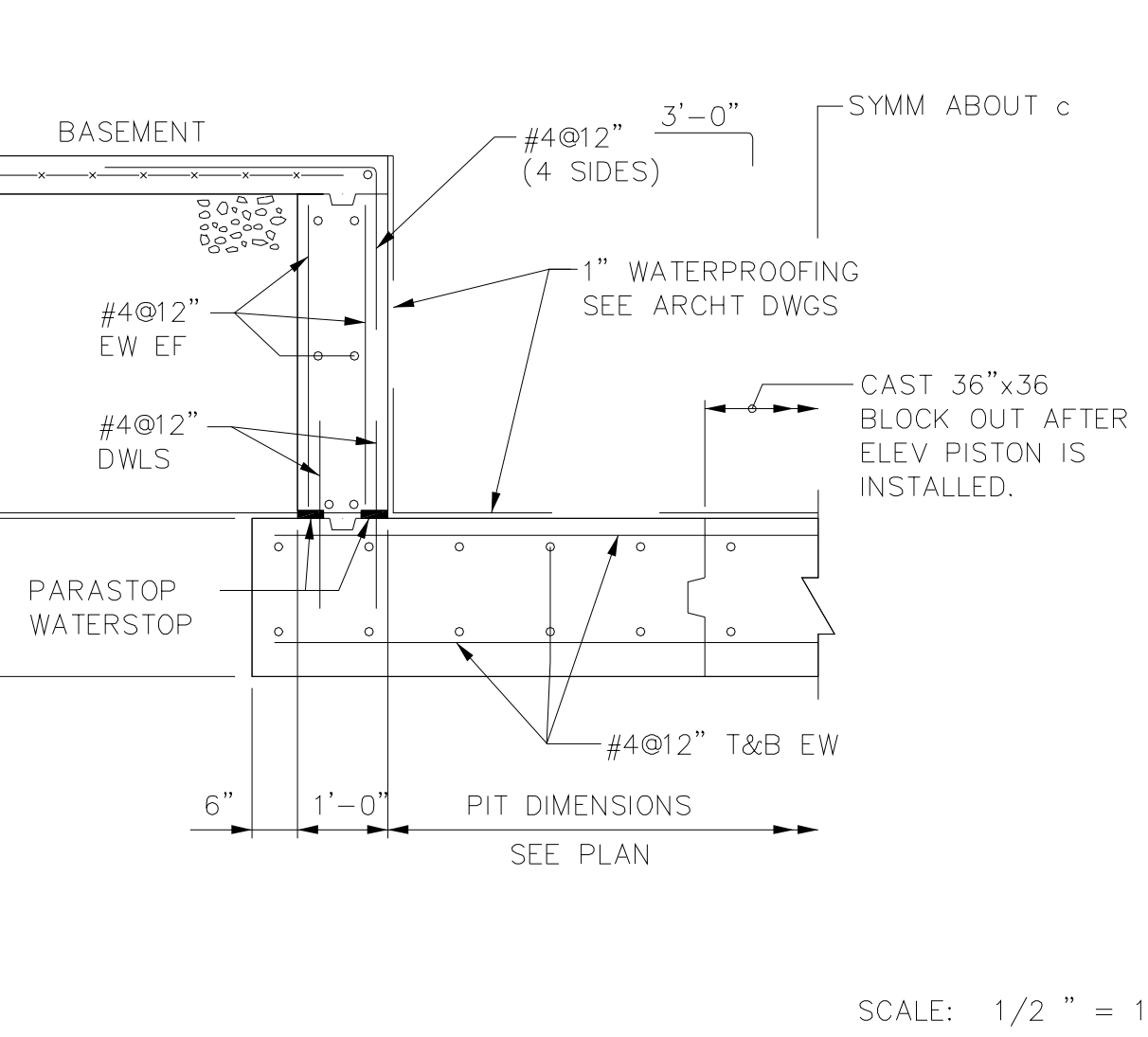
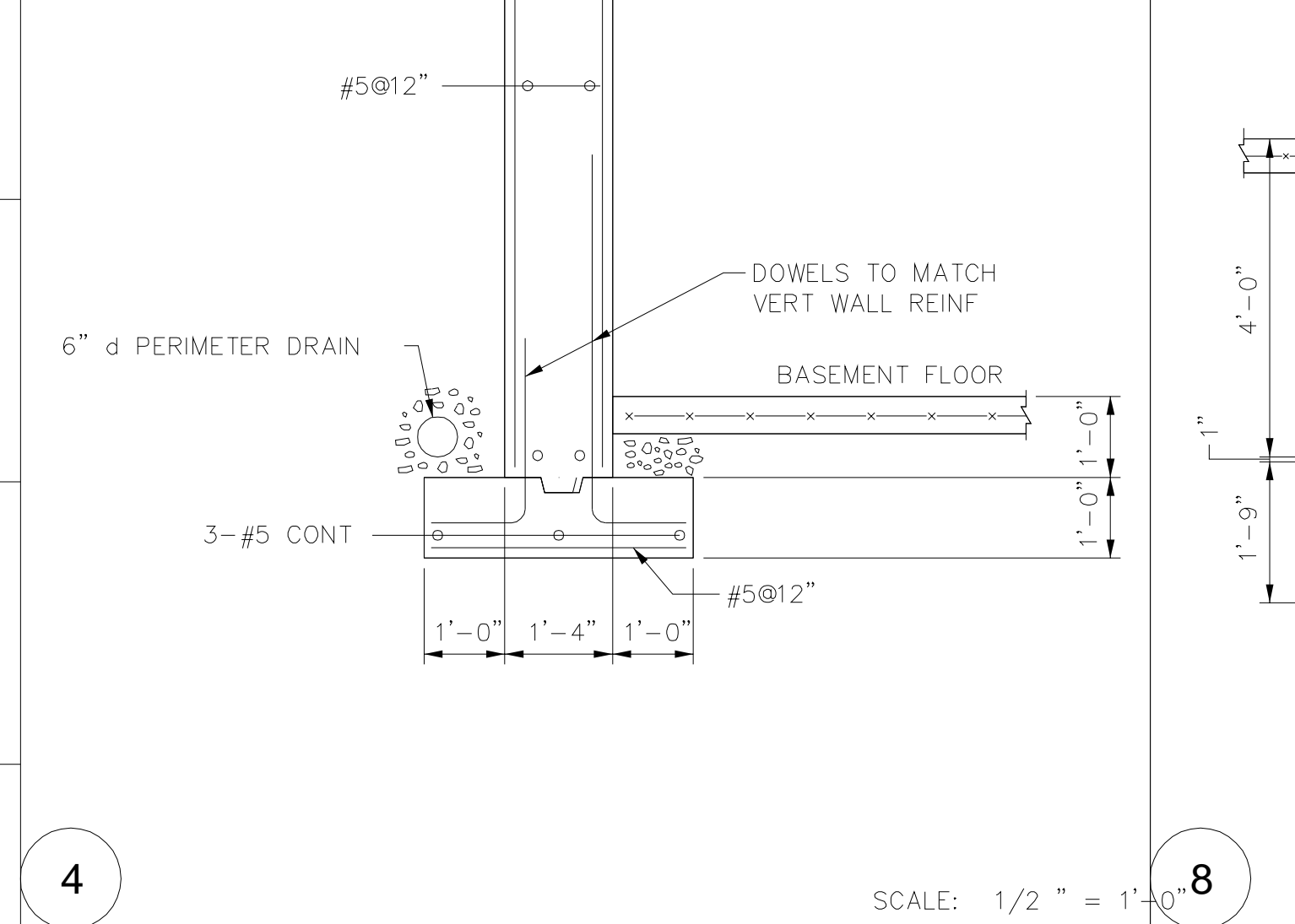
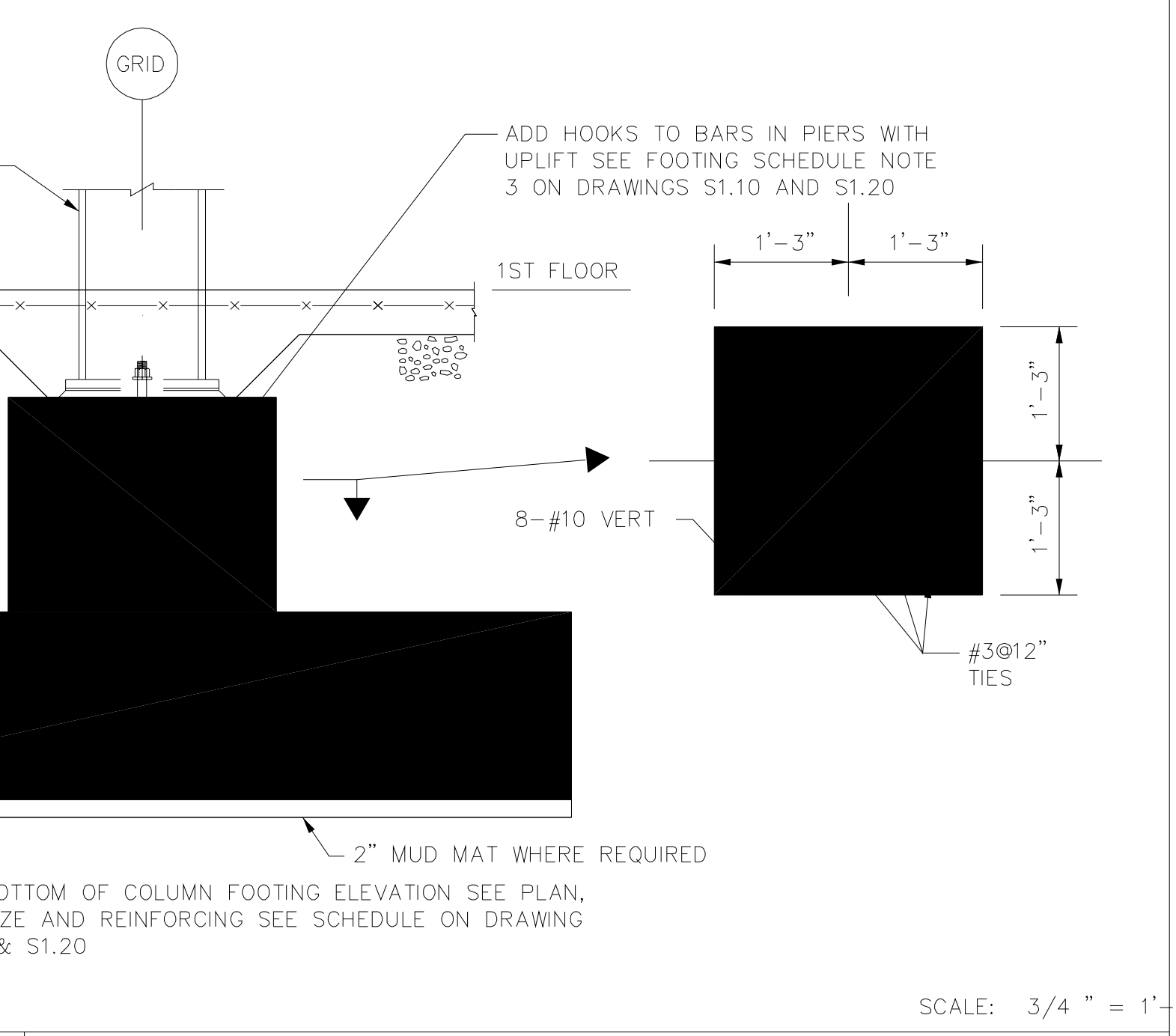
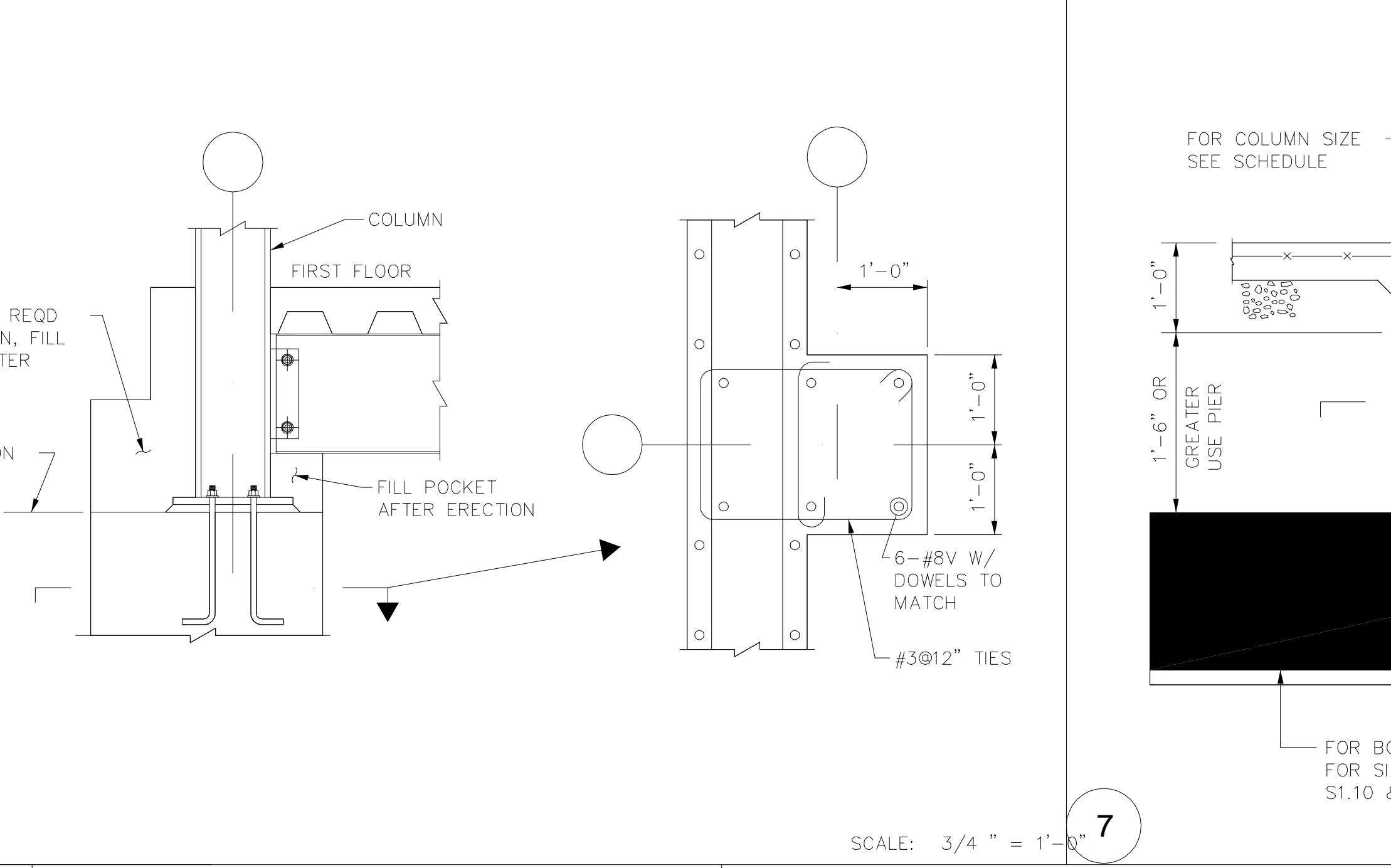
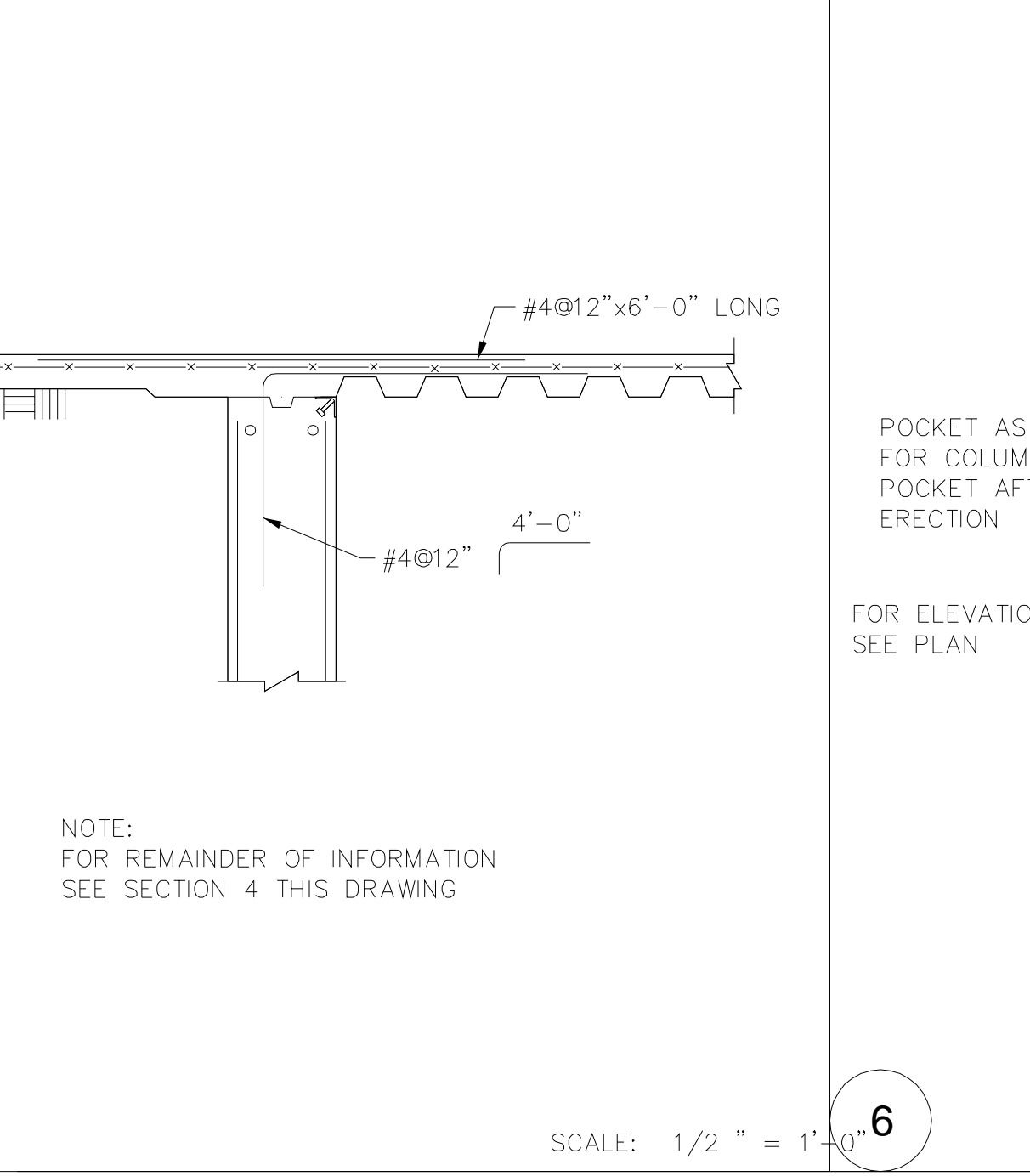
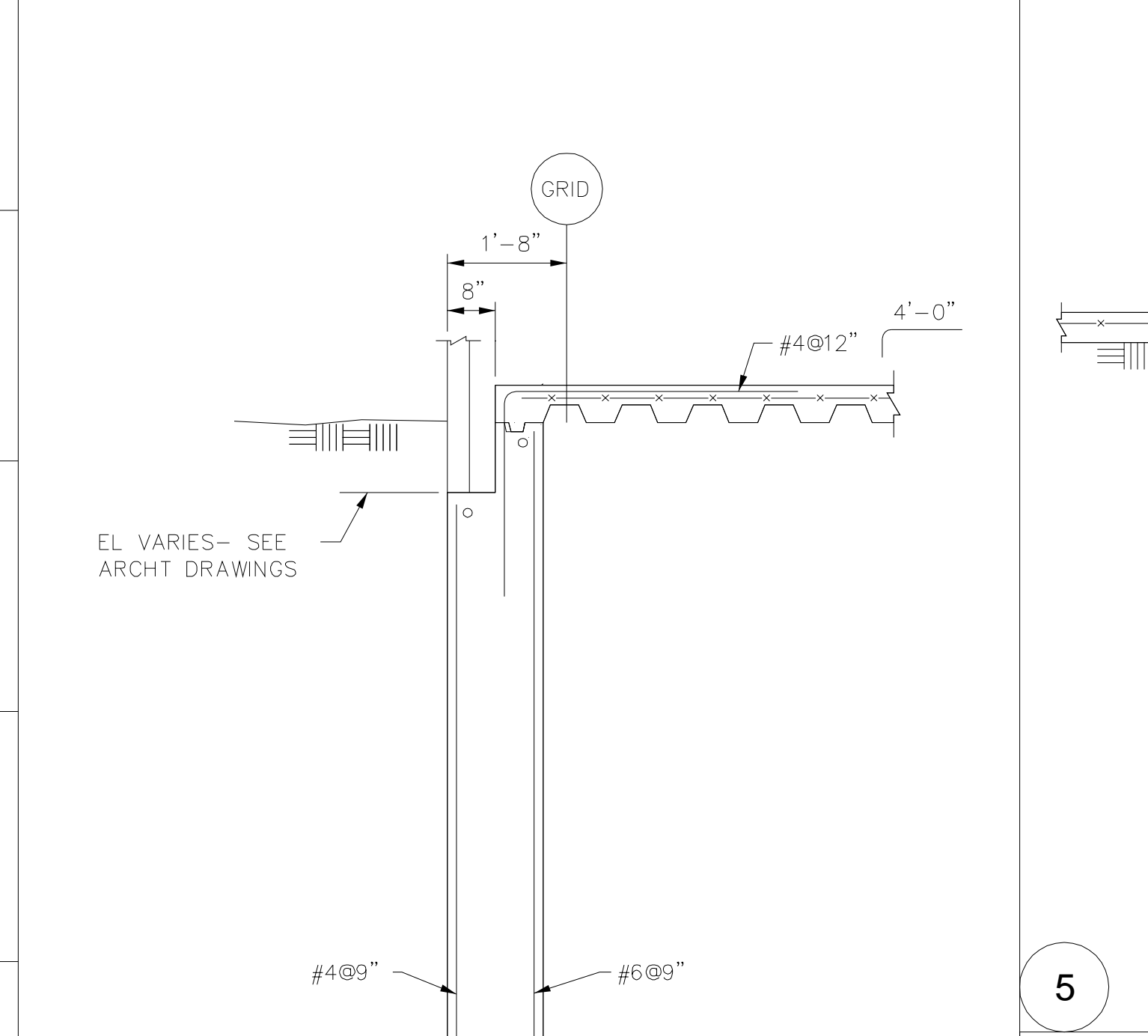
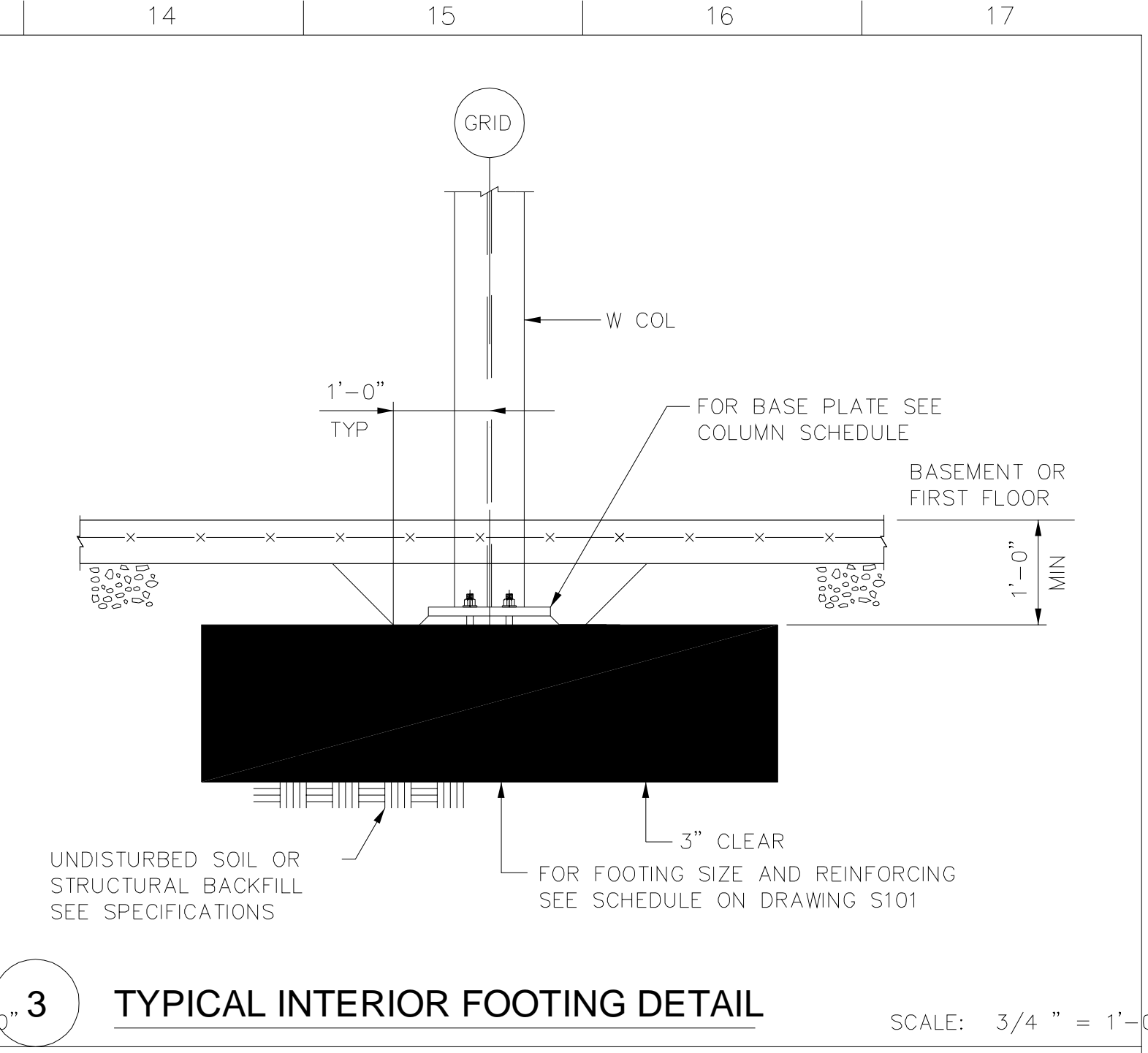
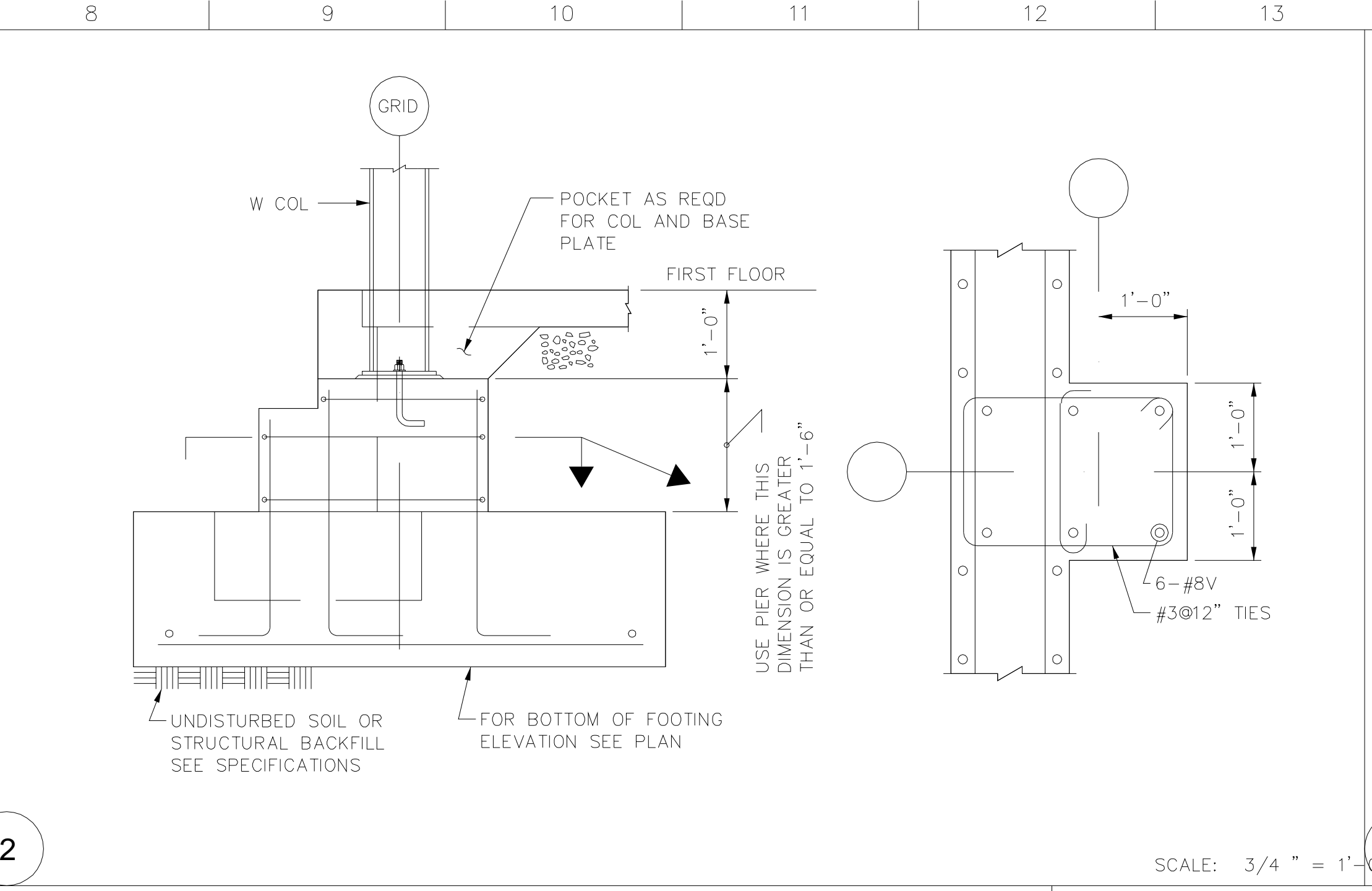
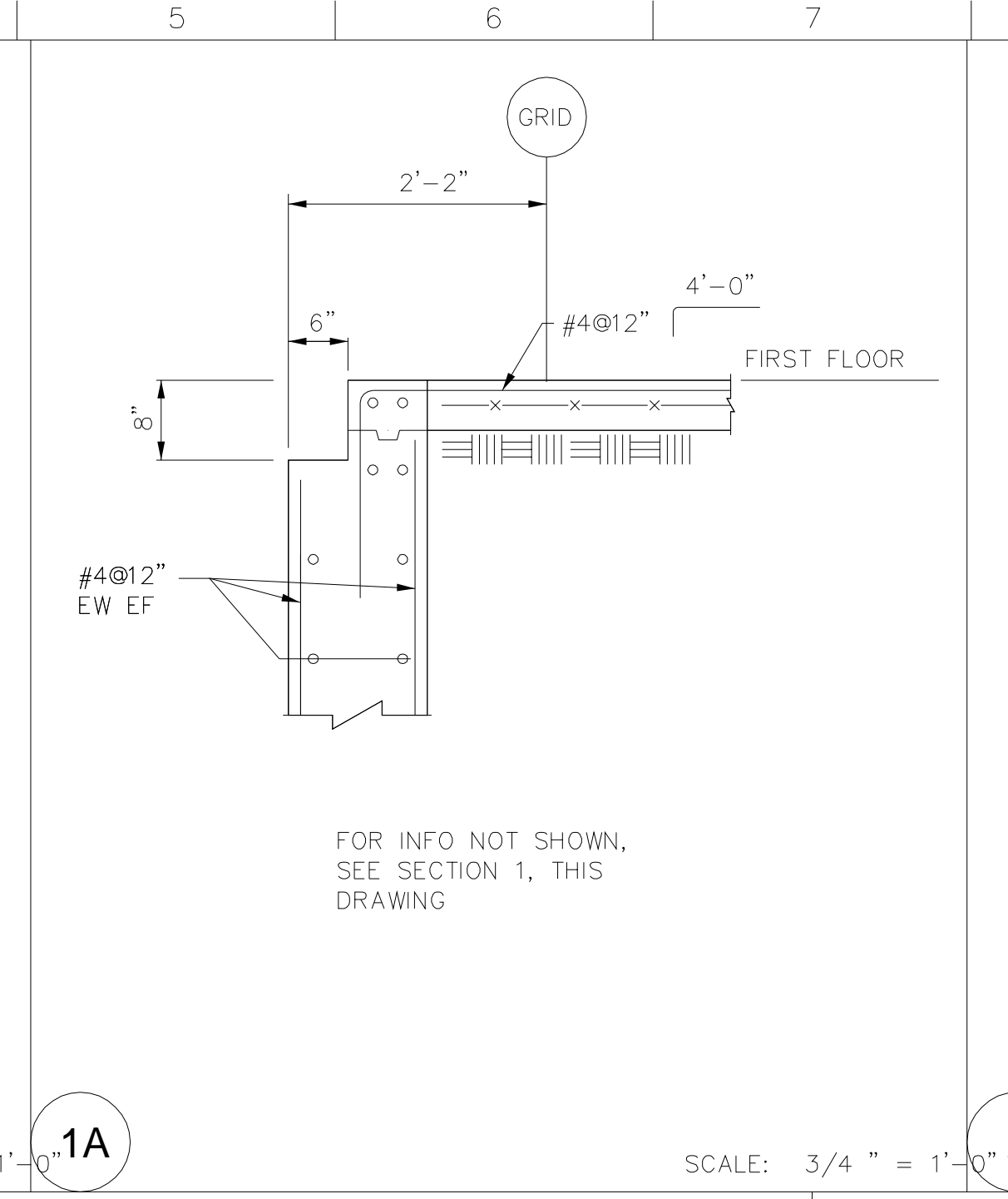
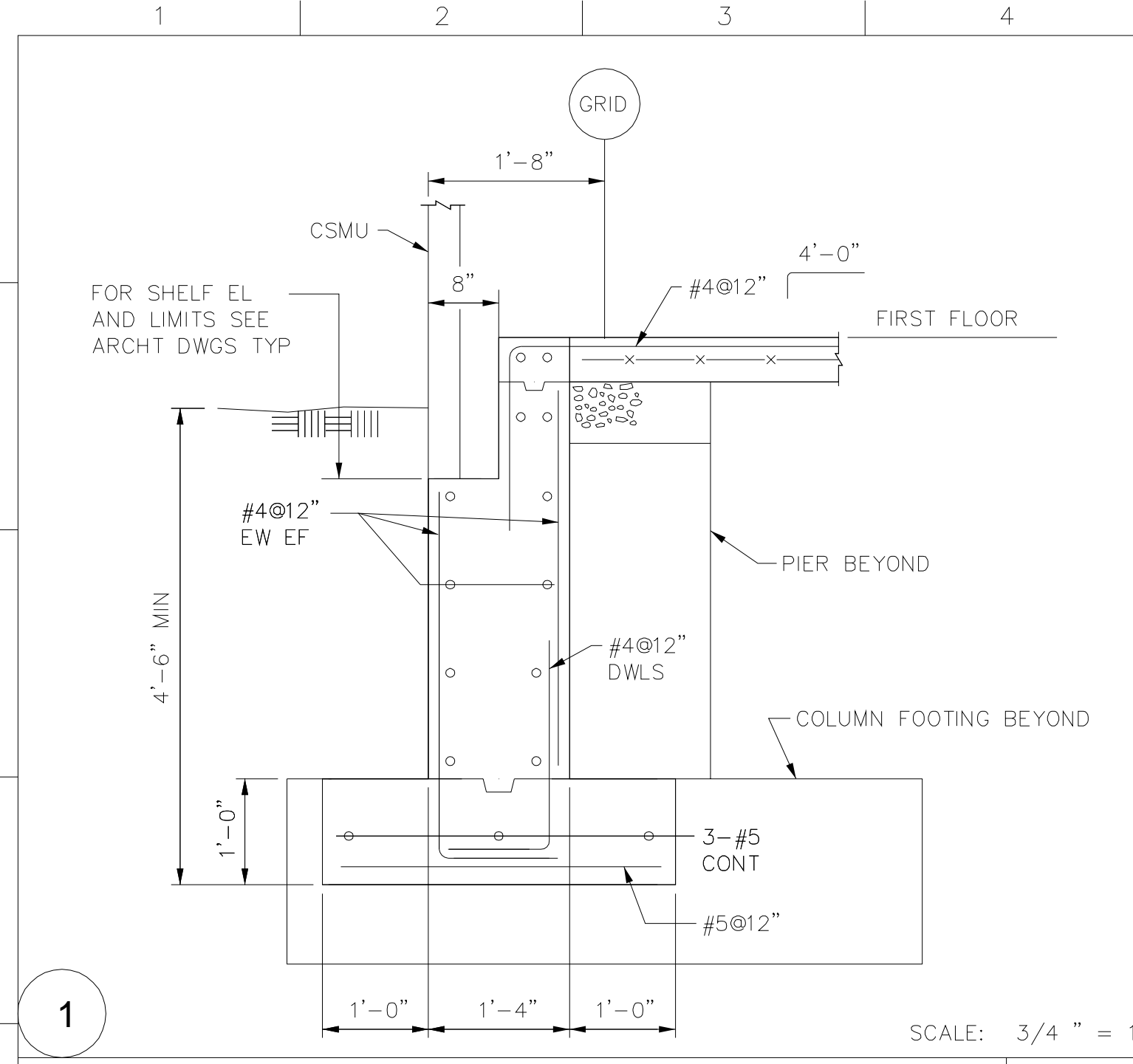


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drawing title		BRACING ELEVATIONS AND DETAILS	
seal	designed by SKH	project no.	5001024.00
	drawn by EAM	CAD file no.	
	checked by AL	drawing no.	
	date 01 / 09 / 2004	C-S202	
	scale AS NOTED		

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no.	revisions/submissions	date

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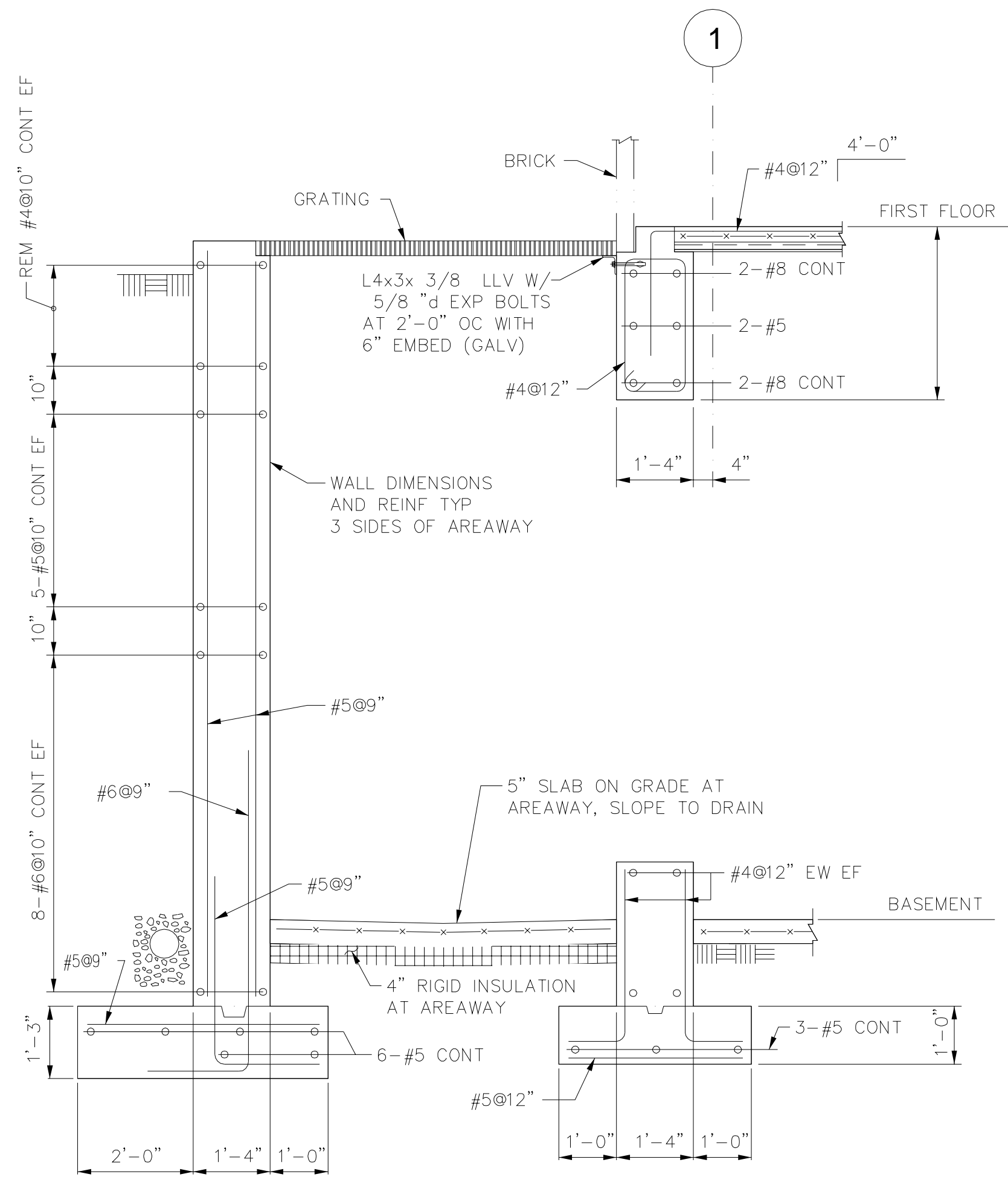
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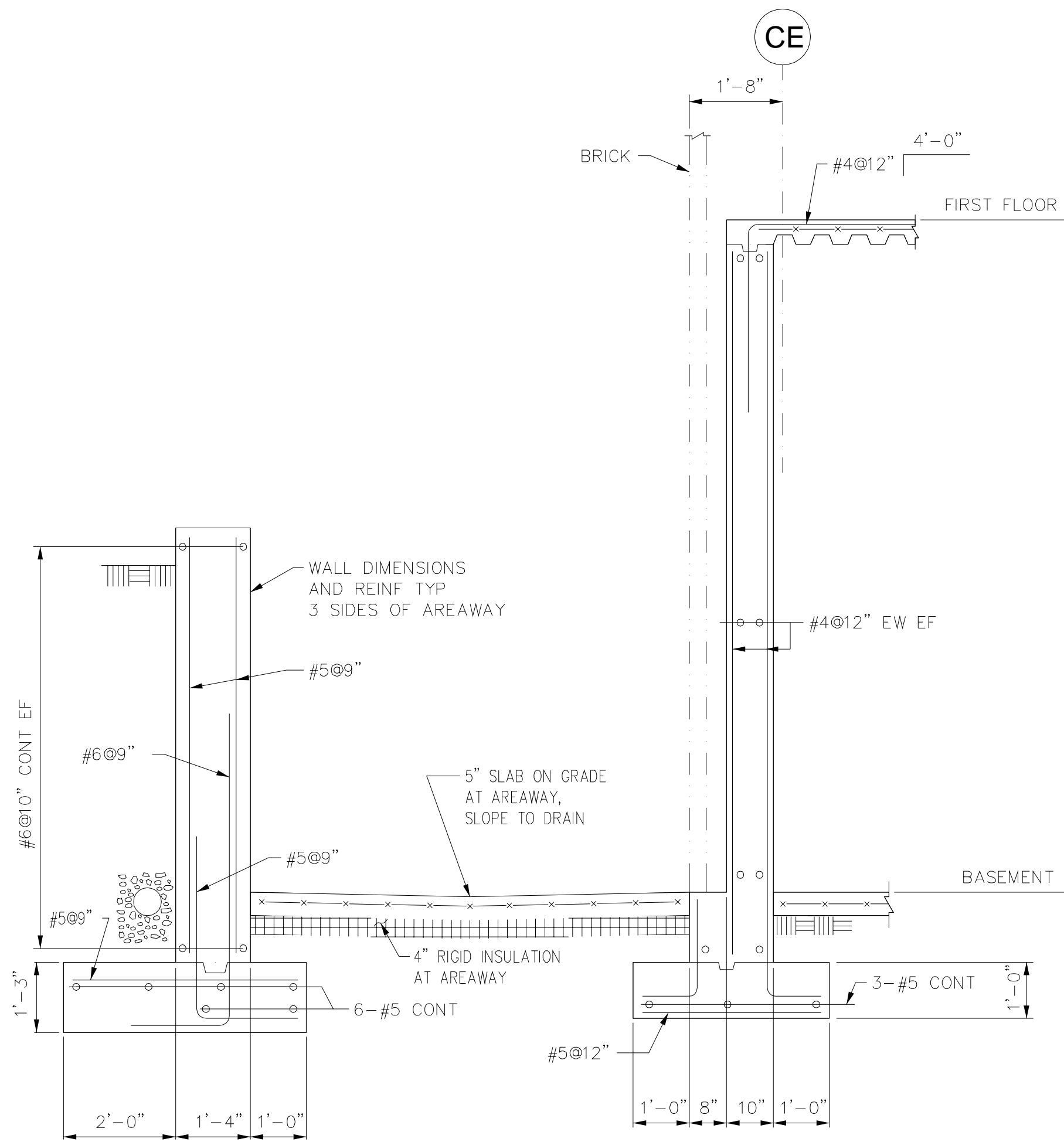
drawing title **FOUNDATION SECTIONS  
AND DETAILS**

seal	designed by SKH	project no. 5001024.00
	drawn by EAM	CAD file no.
	checked by AL	drawing no.
	date 01 / 09 / 2006	<b>C-S301</b>
	scale AS NOTED	

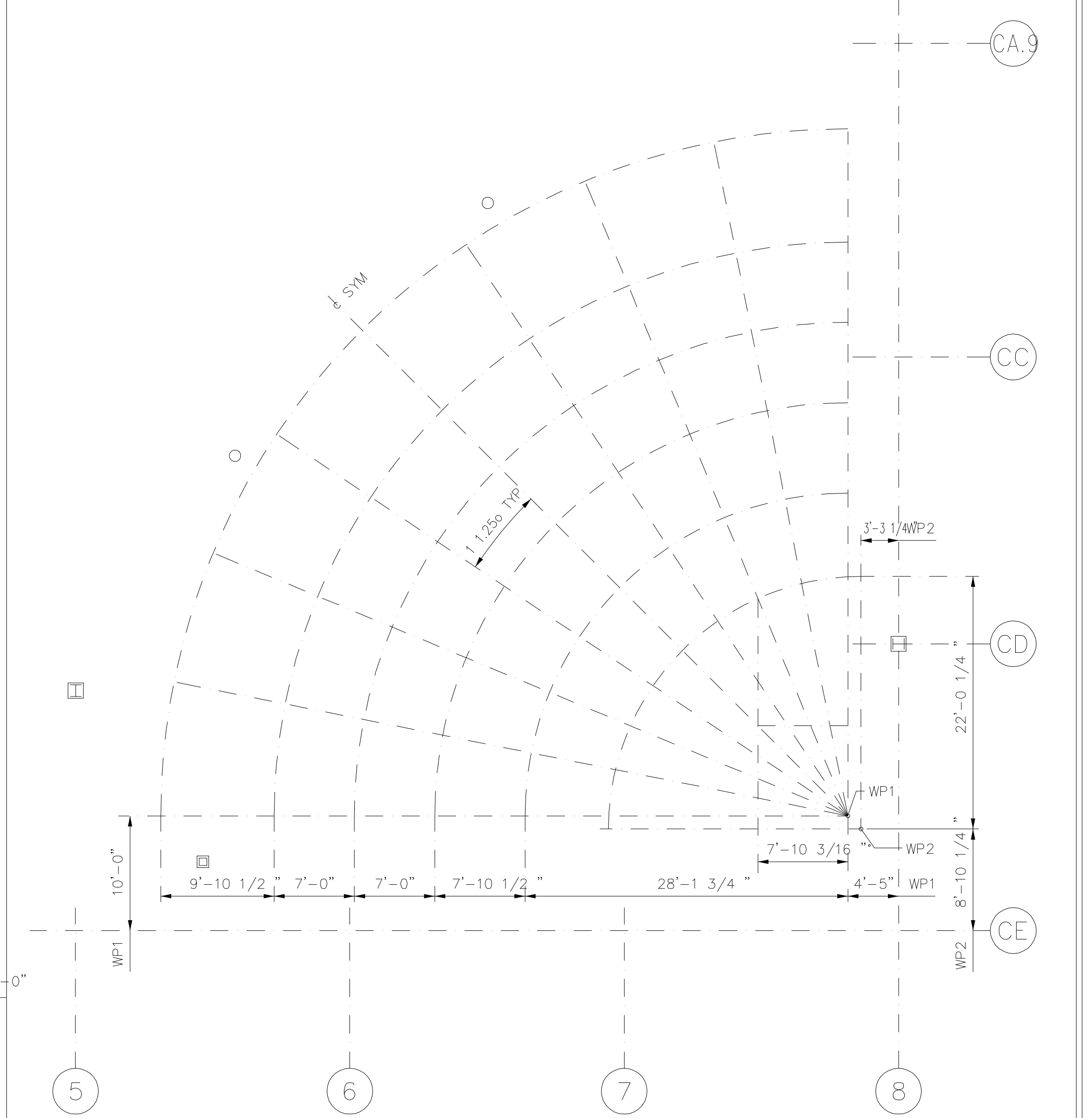
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SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"

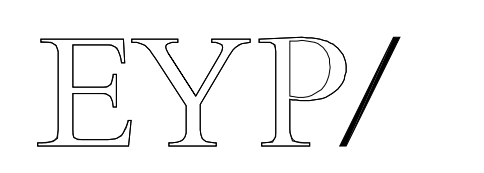


3 PLENUM POST LOCATION PLAN

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

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
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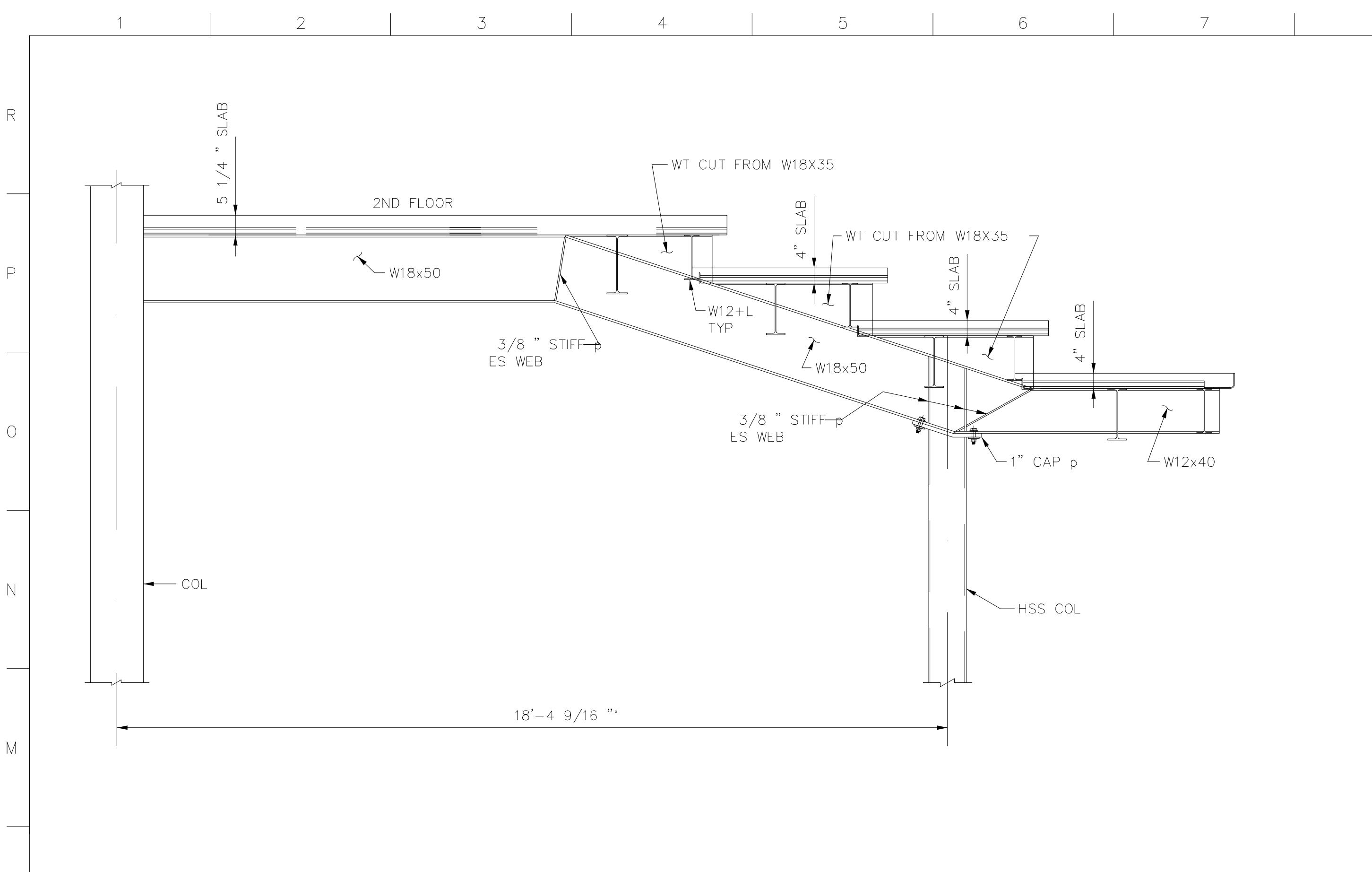


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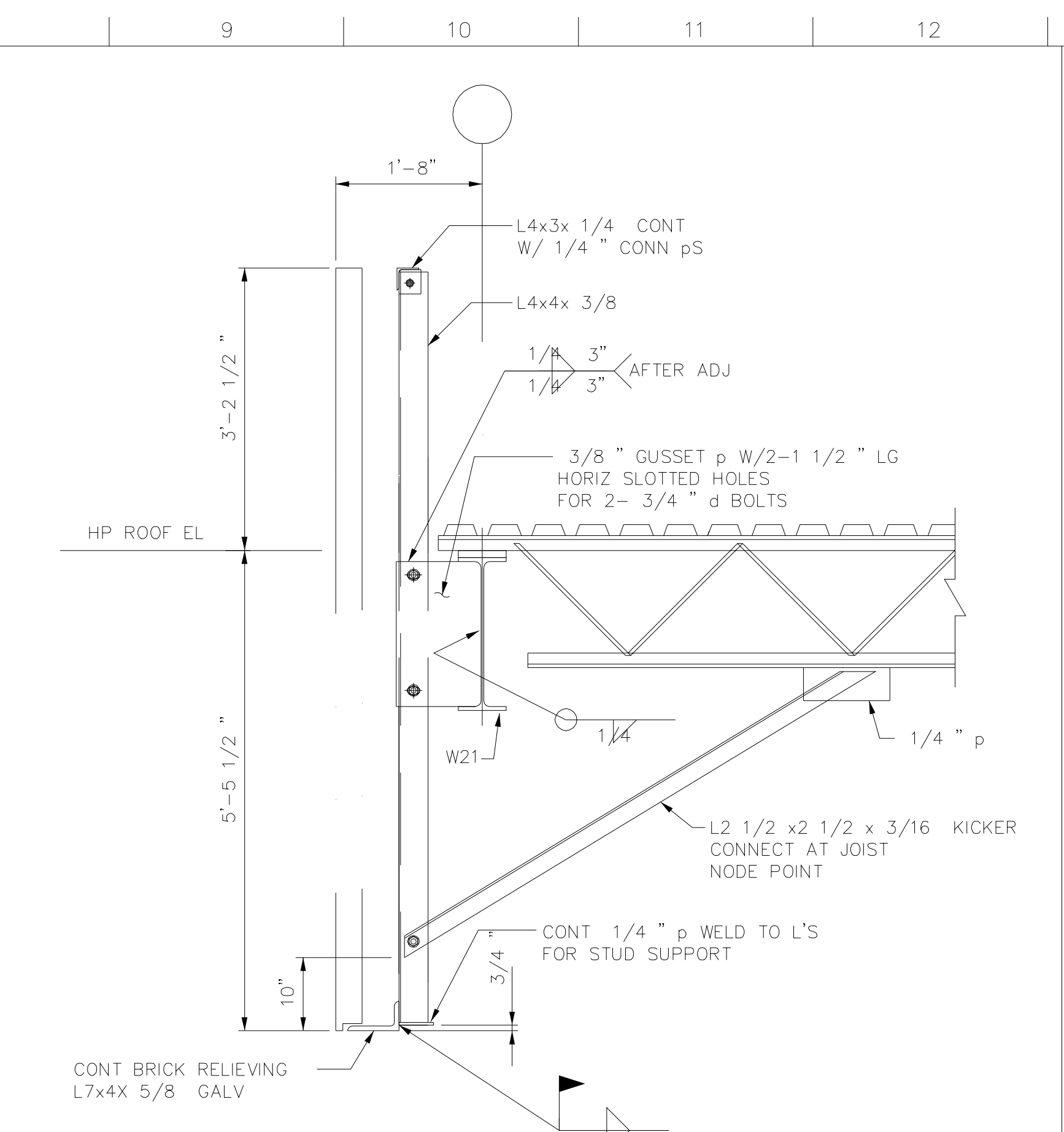
**UNIVERSITY OF SOUTHERN MAINE  
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drawing title		<b>FOUNDATION SECTIONS AND DETAILS</b>	
seal	designed by SKH	project no.	<b>5001024.00</b>
	drawn by EAM	CAD file no.	
	checked by AL	drawing no.	<b>C-S302</b>
date	01 / 09 / 2004	scale	AS NOTED

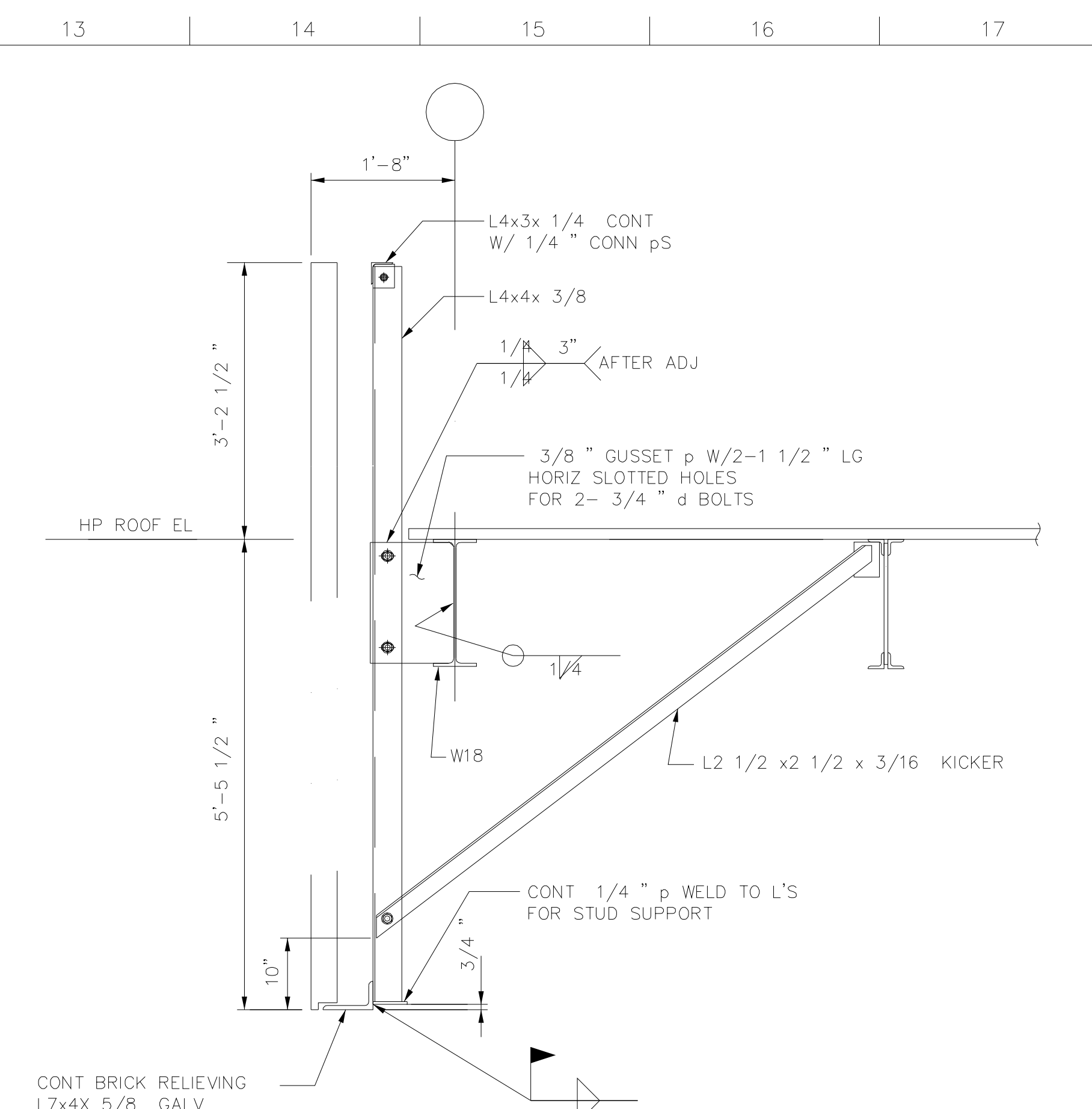
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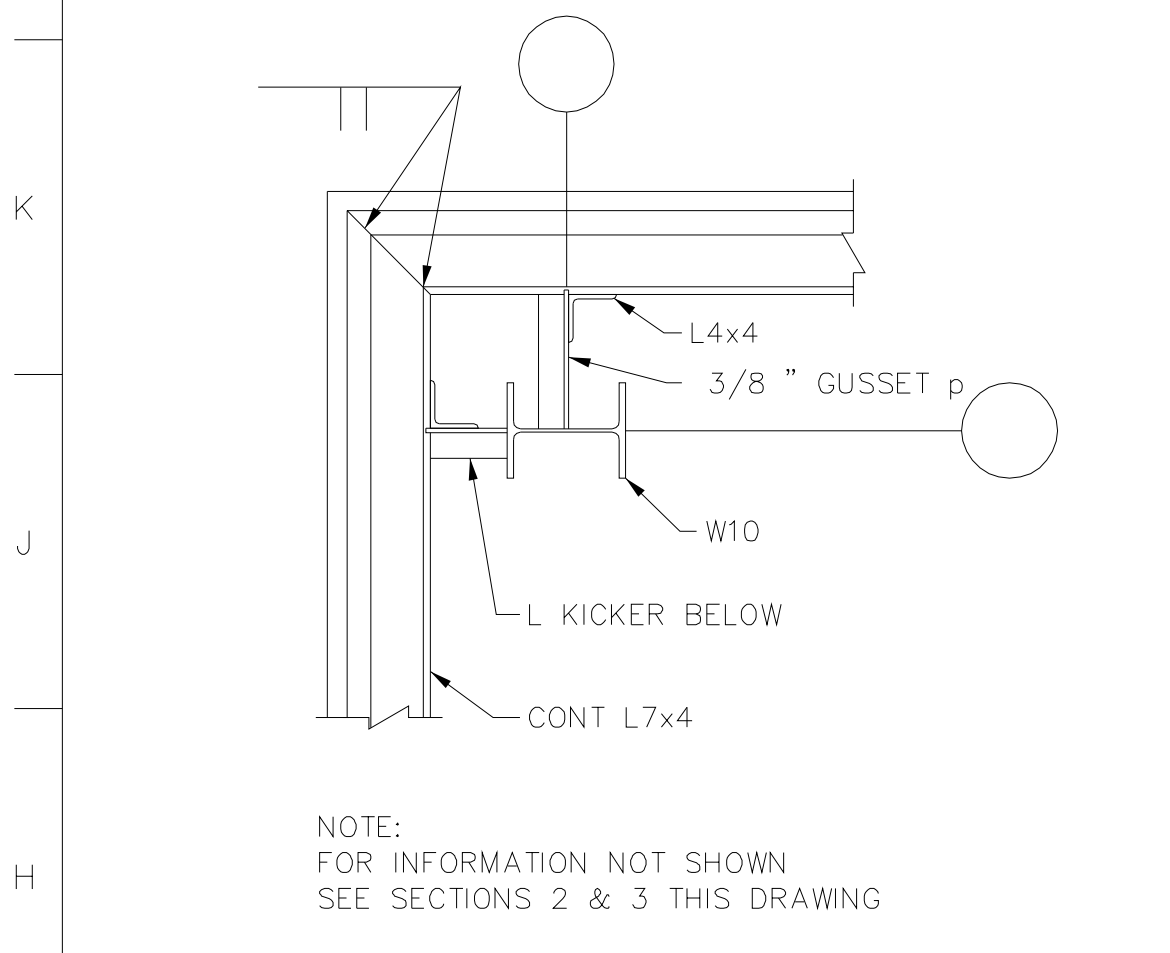
**1 GIRDER ELEVATION AT BALCONY** SCALE: 1/2" = 1'-0"



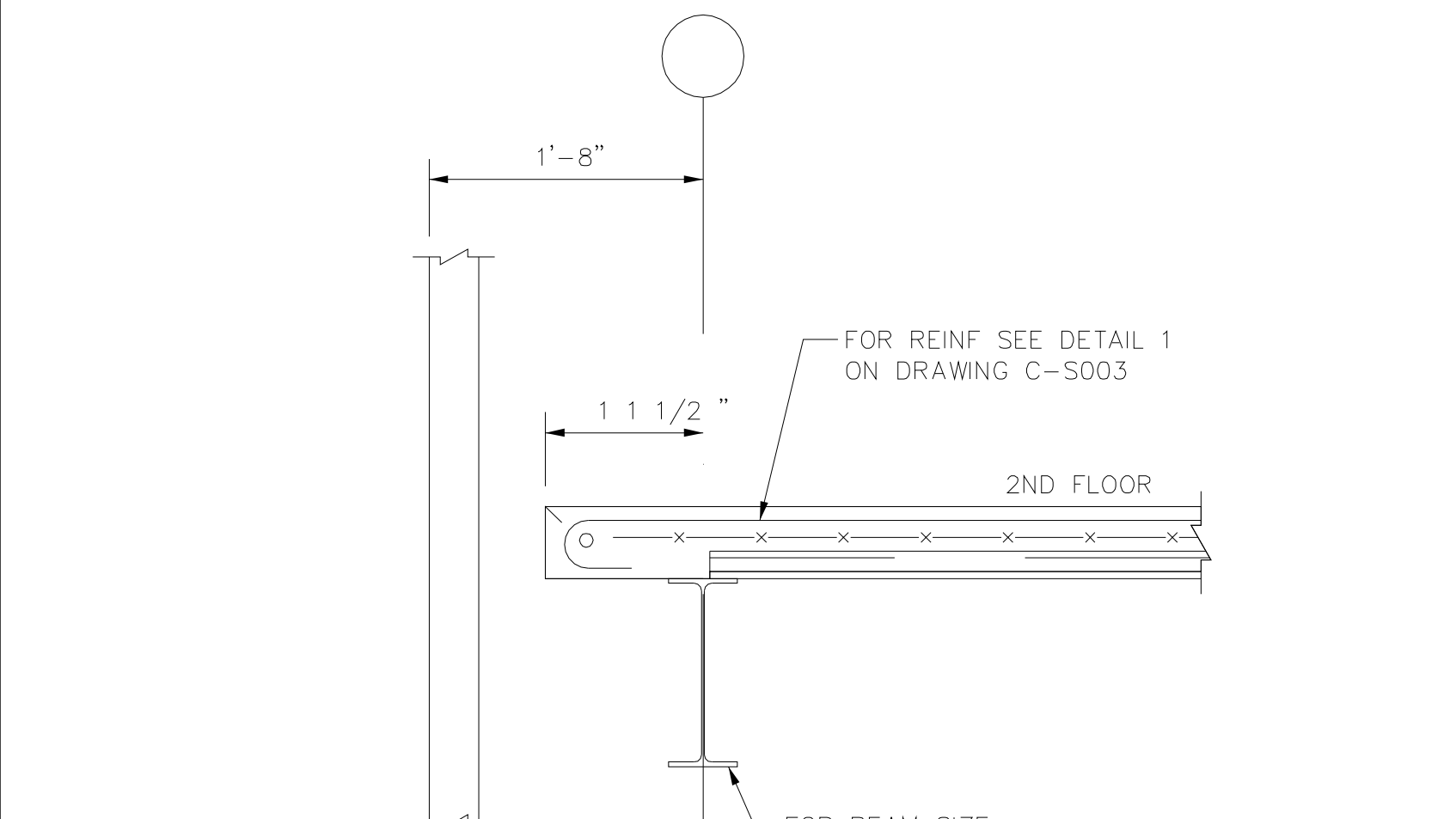
**2** NOTE: SECTION OCCURS AT EACH JOIST. AT COLUMN ATTACH GUSSET p AND KICKER TO COLUMN SCALE: 3/4" = 1'-0"



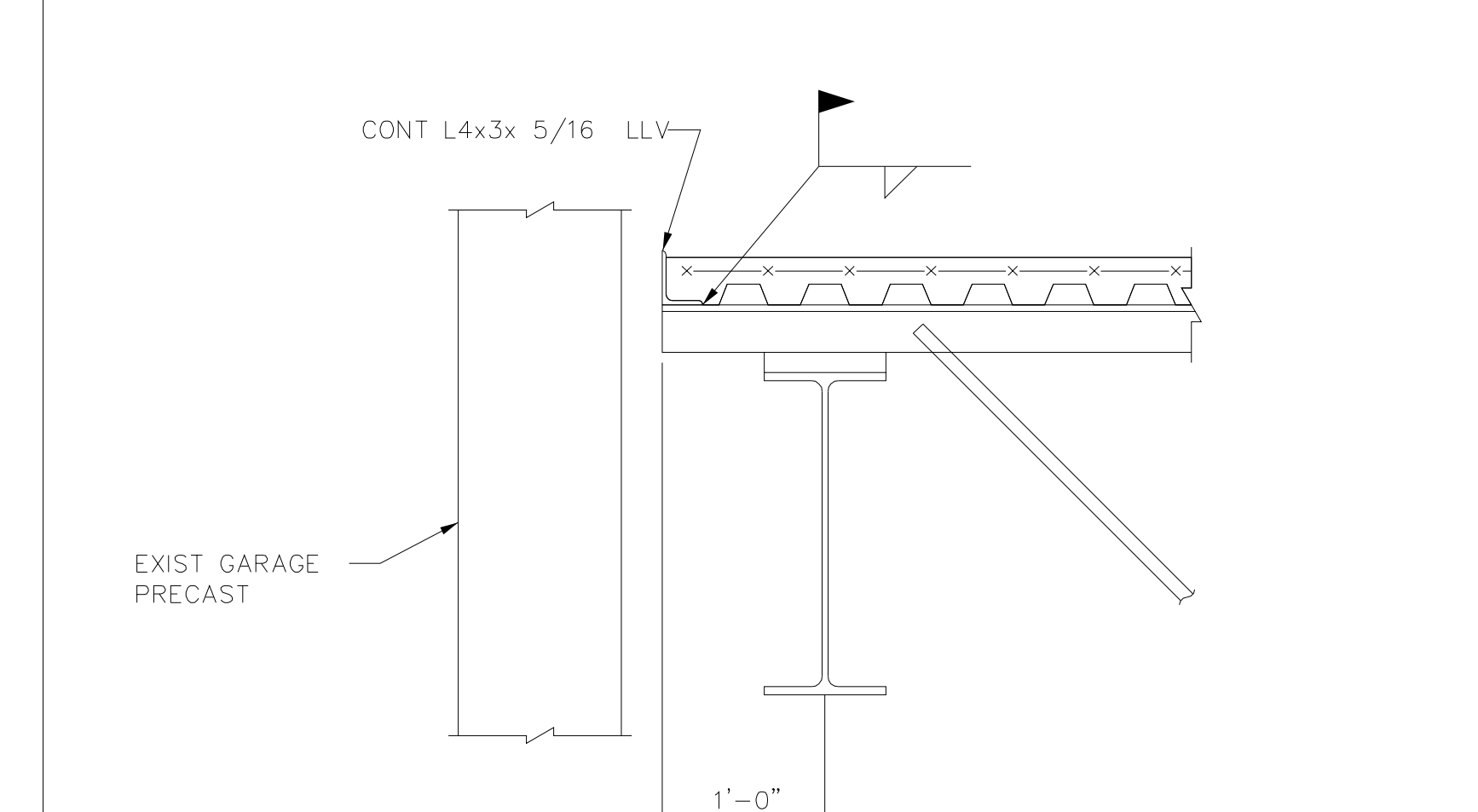
**3** NOTE: SECTION OCCURS AT 5'-0" OC. AT COLUMN ATTACH GUSSET p AND KICKER TO COLUMN SCALE: 3/4" = 1'-0"



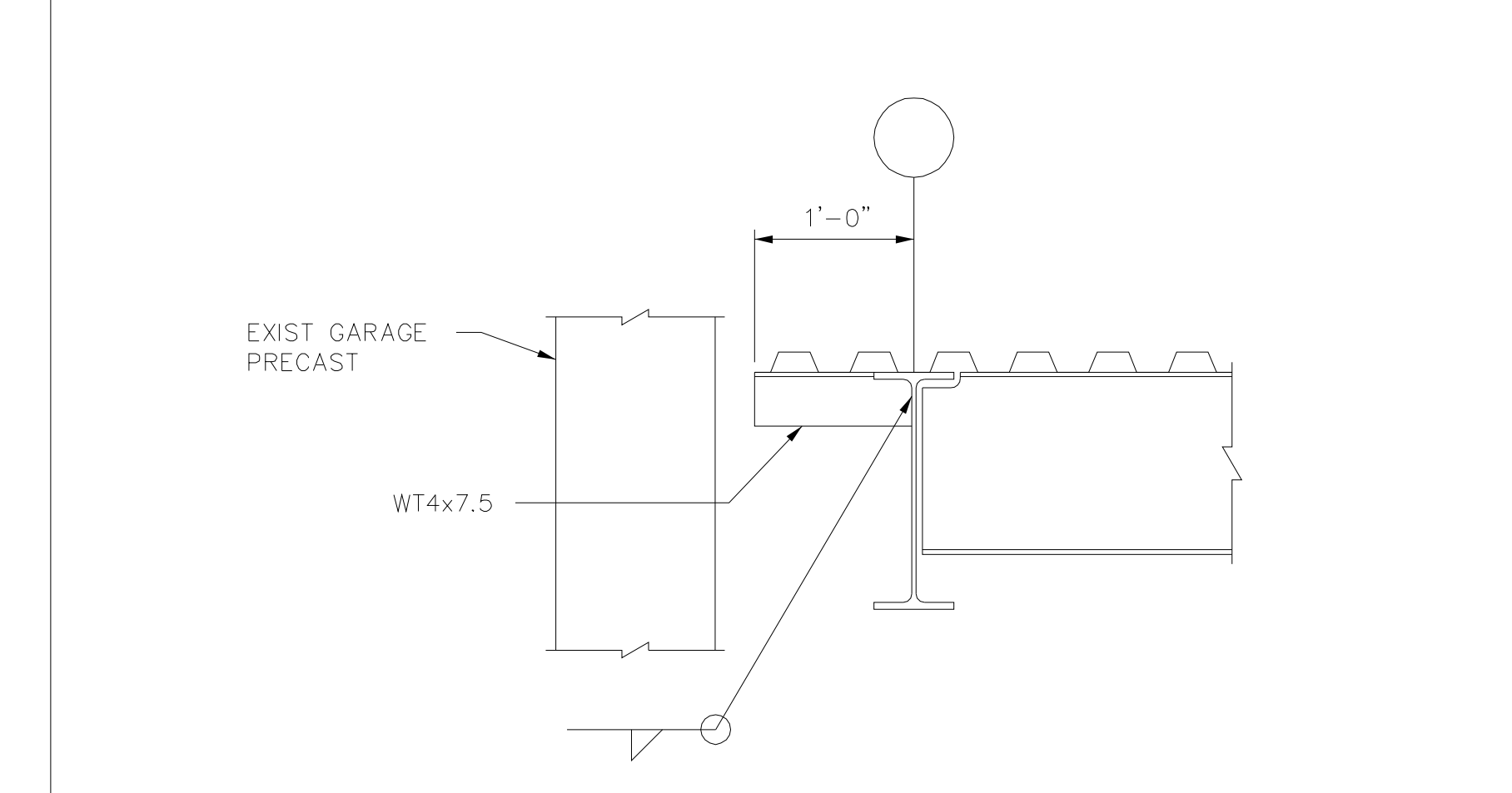
**4 PLAN** SCALE: 3/4" = 1'-0"



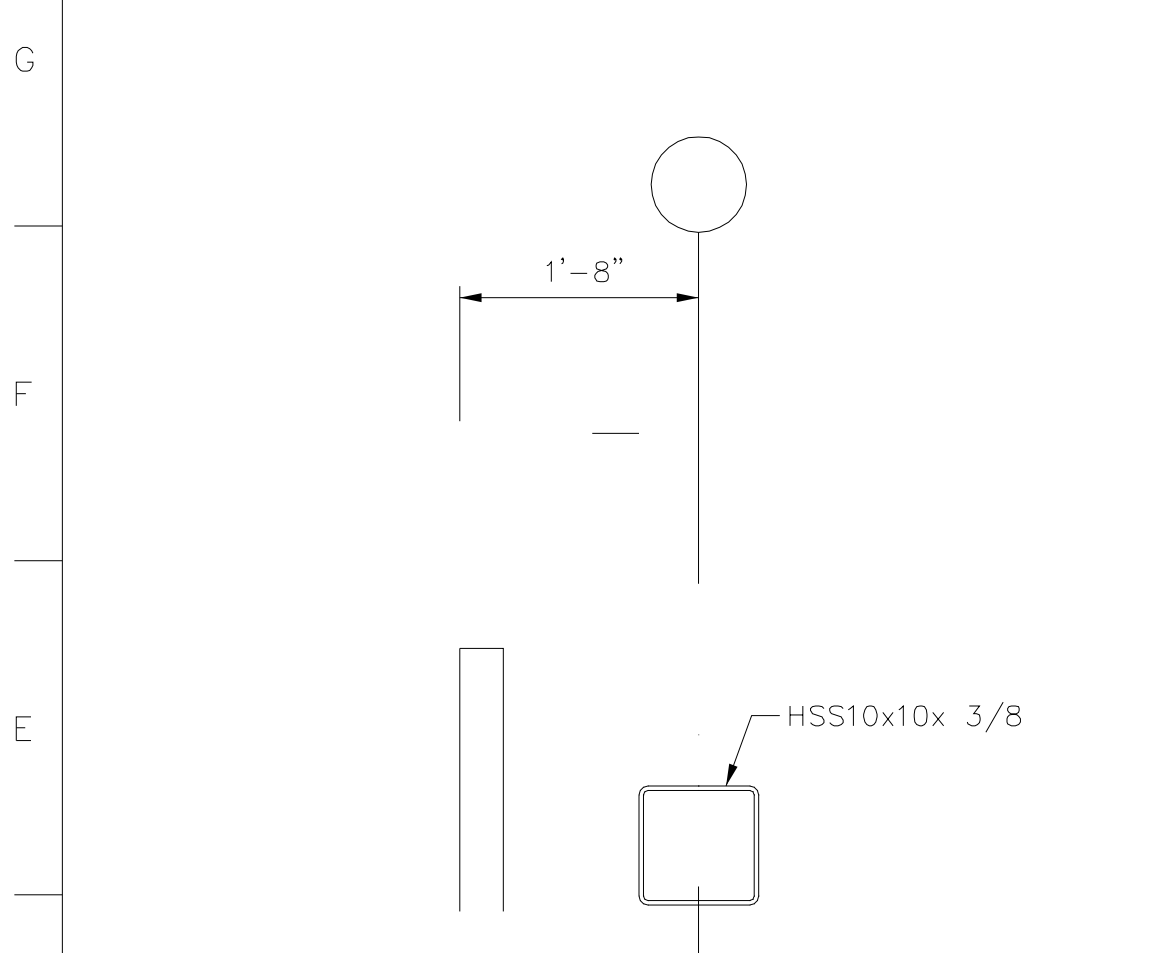
**5** SCALE: 1" = 1'-0"



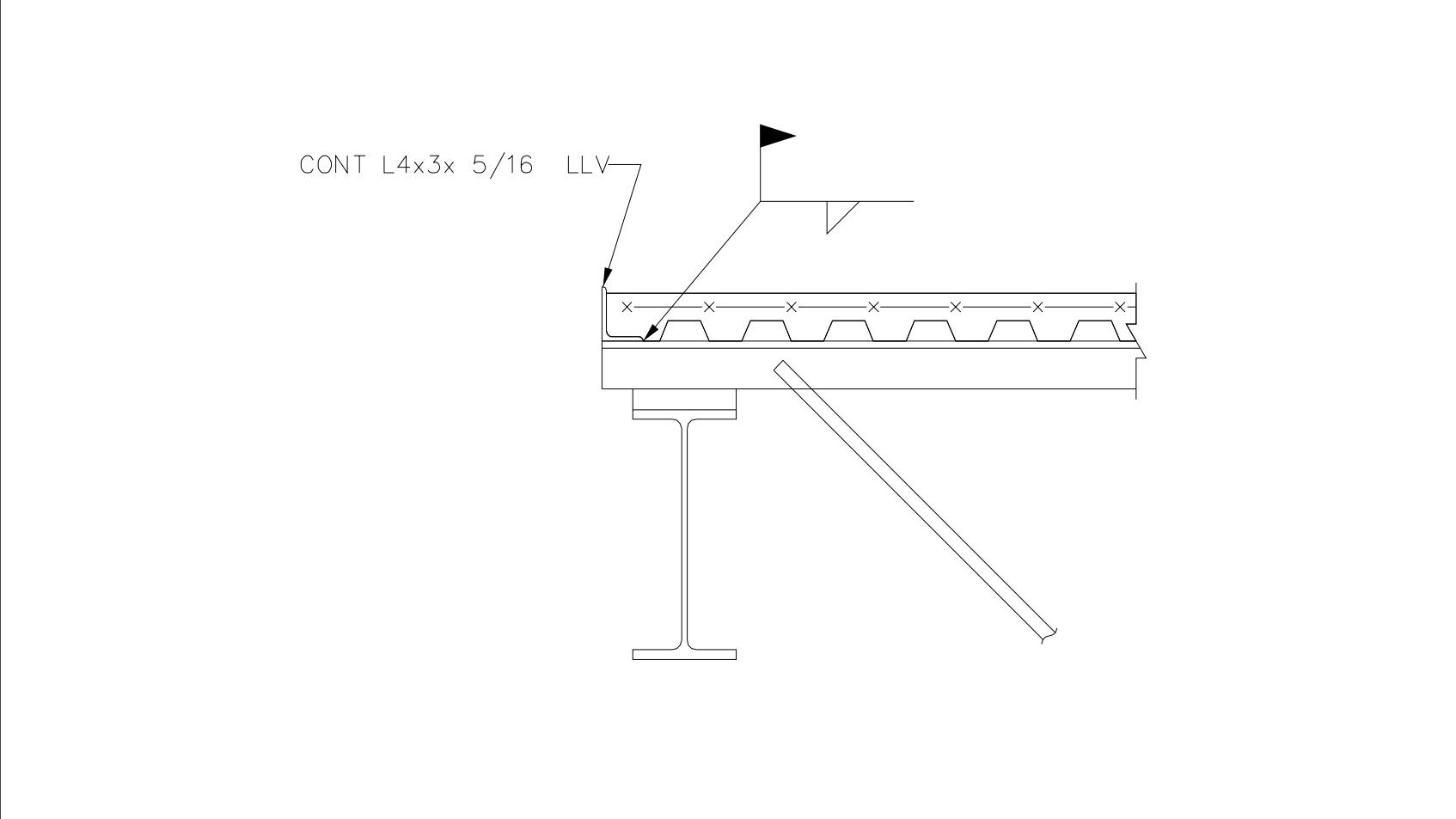
**6** SCALE: 1" = 1'-0"



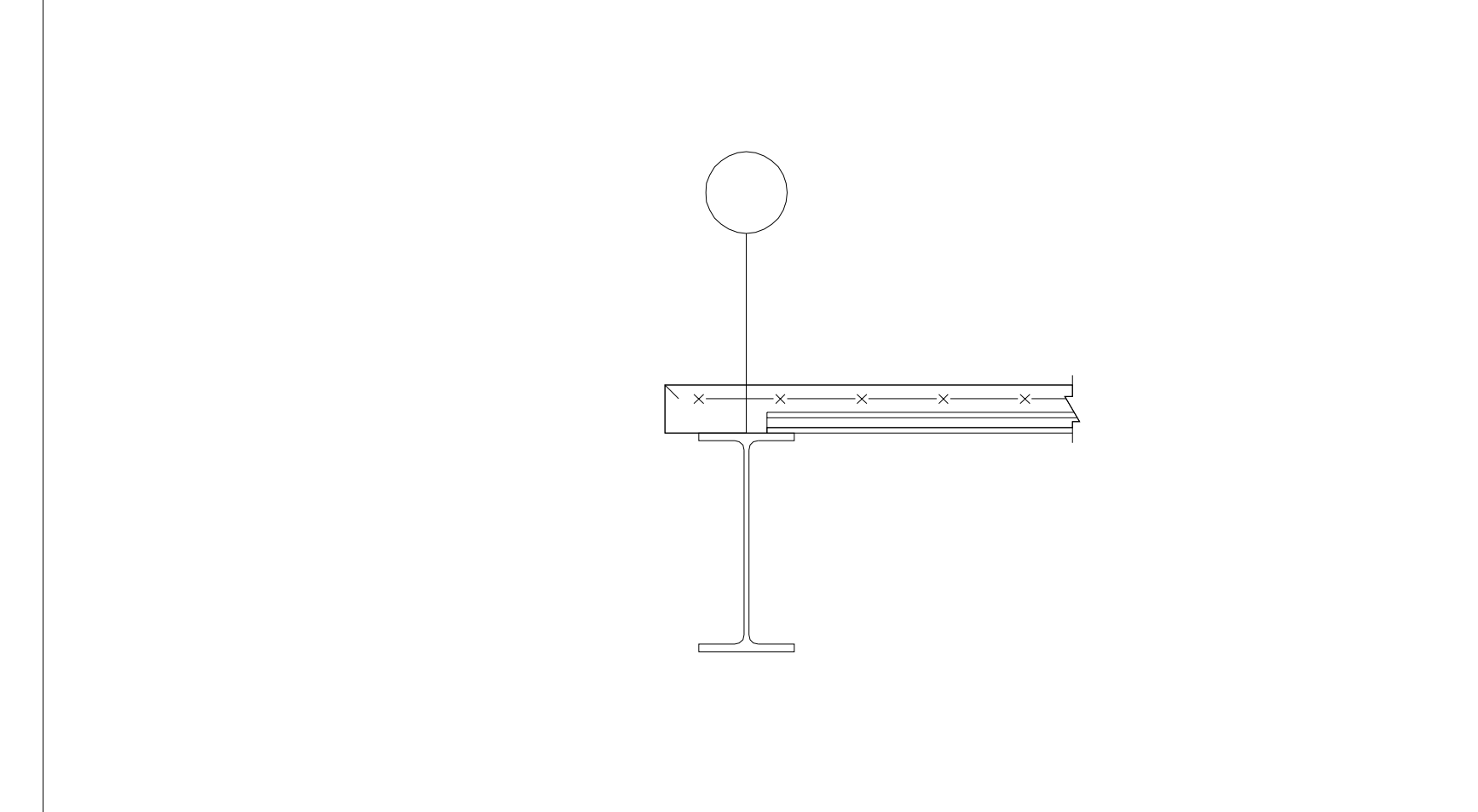
**7** SCALE: 1" = 1'-0"



**8** SCALE: 3/4" = 1'-0"



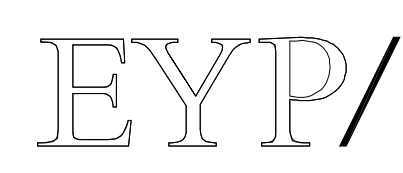
**9** SCALE: 1" = 1'-0"



**10** SCALE: 1" = 1'-0"

2	GMP DOCUMENTS	01/19/04
1	STEEL BID PACKAGE	01/09/04
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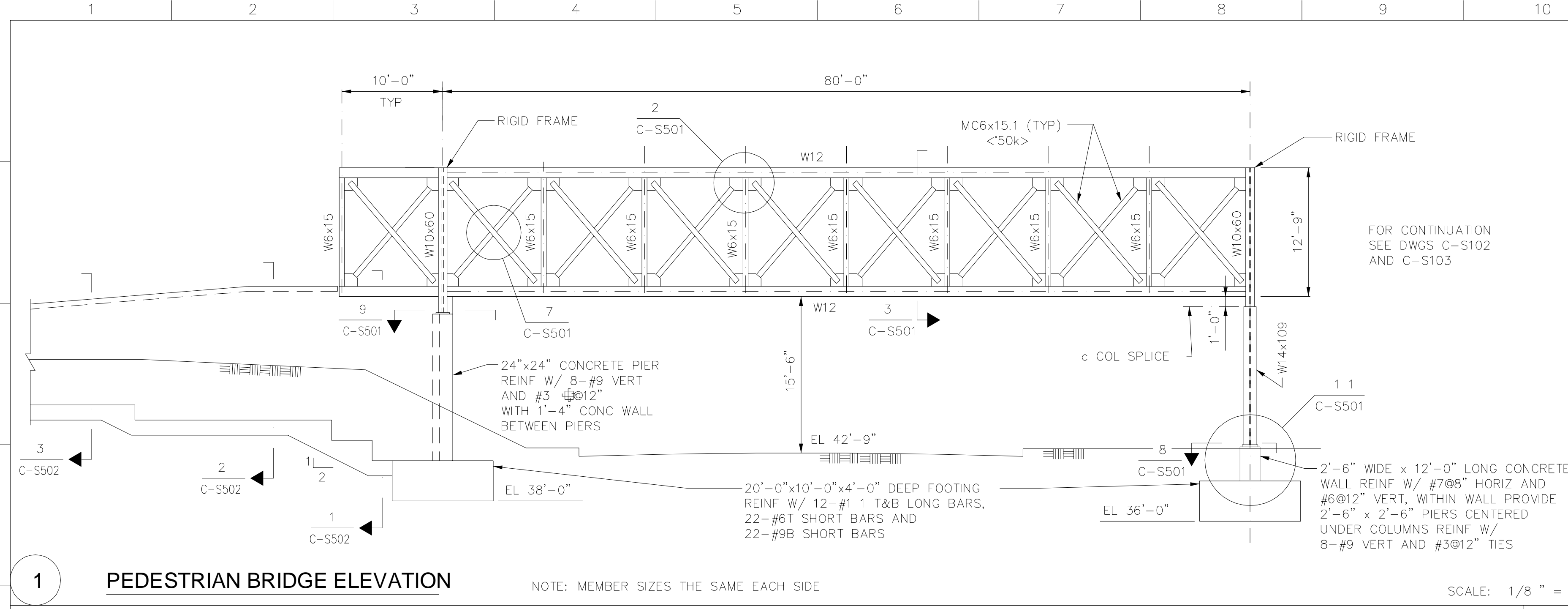


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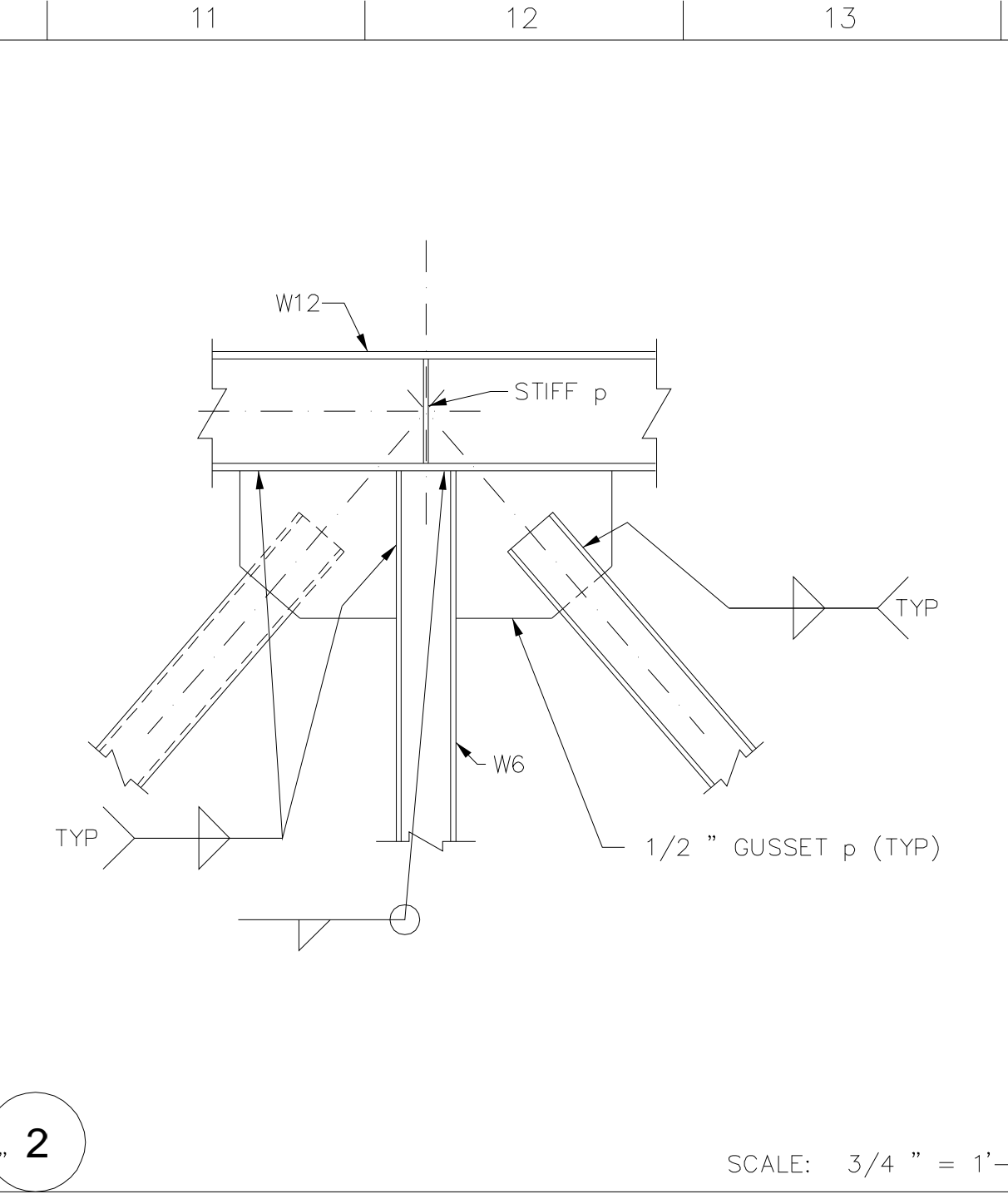
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drawing title <b>SECTIONS AND DETAILS</b>		
seal	designed by SKH	project no. 5001024.00
	drawn by EAM	CAD file no.
	checked by AL	drawing no.
	date 01 / 09 / 2004	<b>C-S401</b>
	scale AS NOTED	

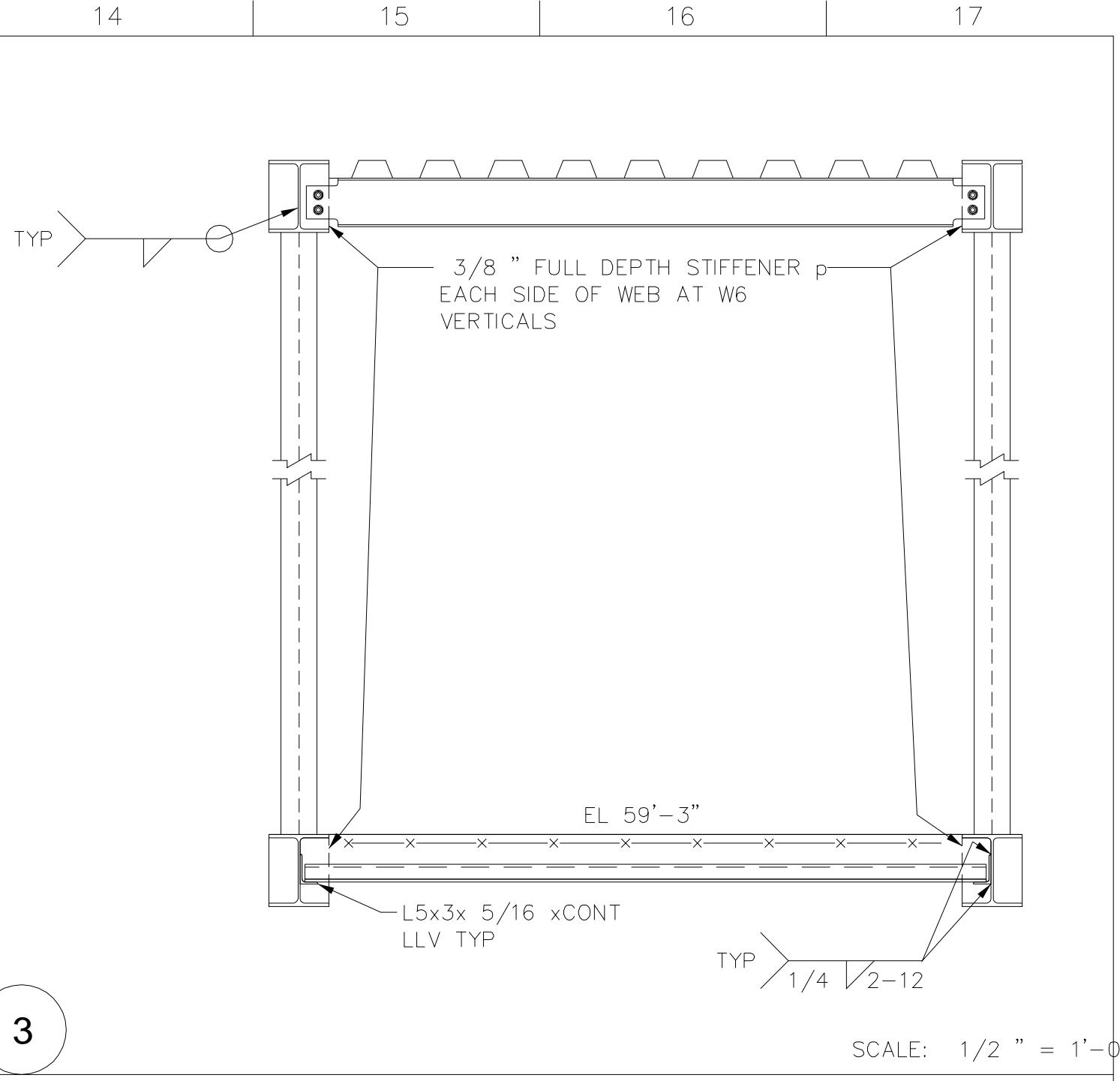
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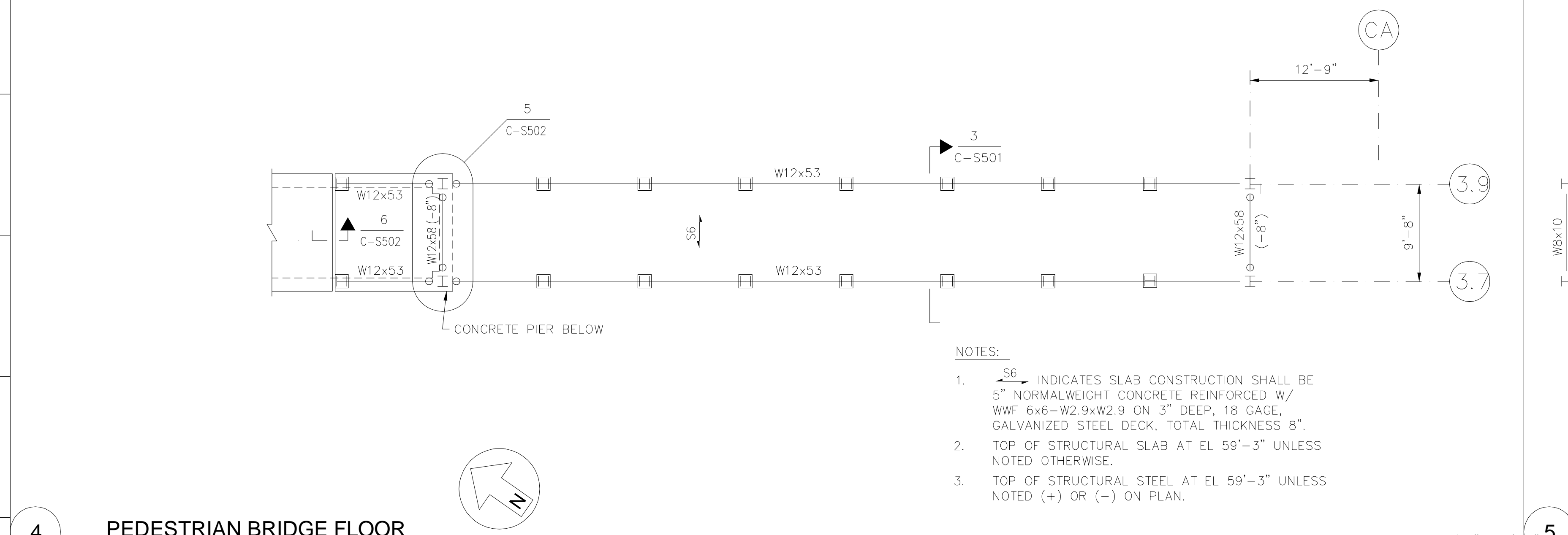
**1 PEDESTRIAN BRIDGE ELEVATION** NOTE: MEMBER SIZES THE SAME EACH SIDE SCALE: 1/8" = 1'-0"



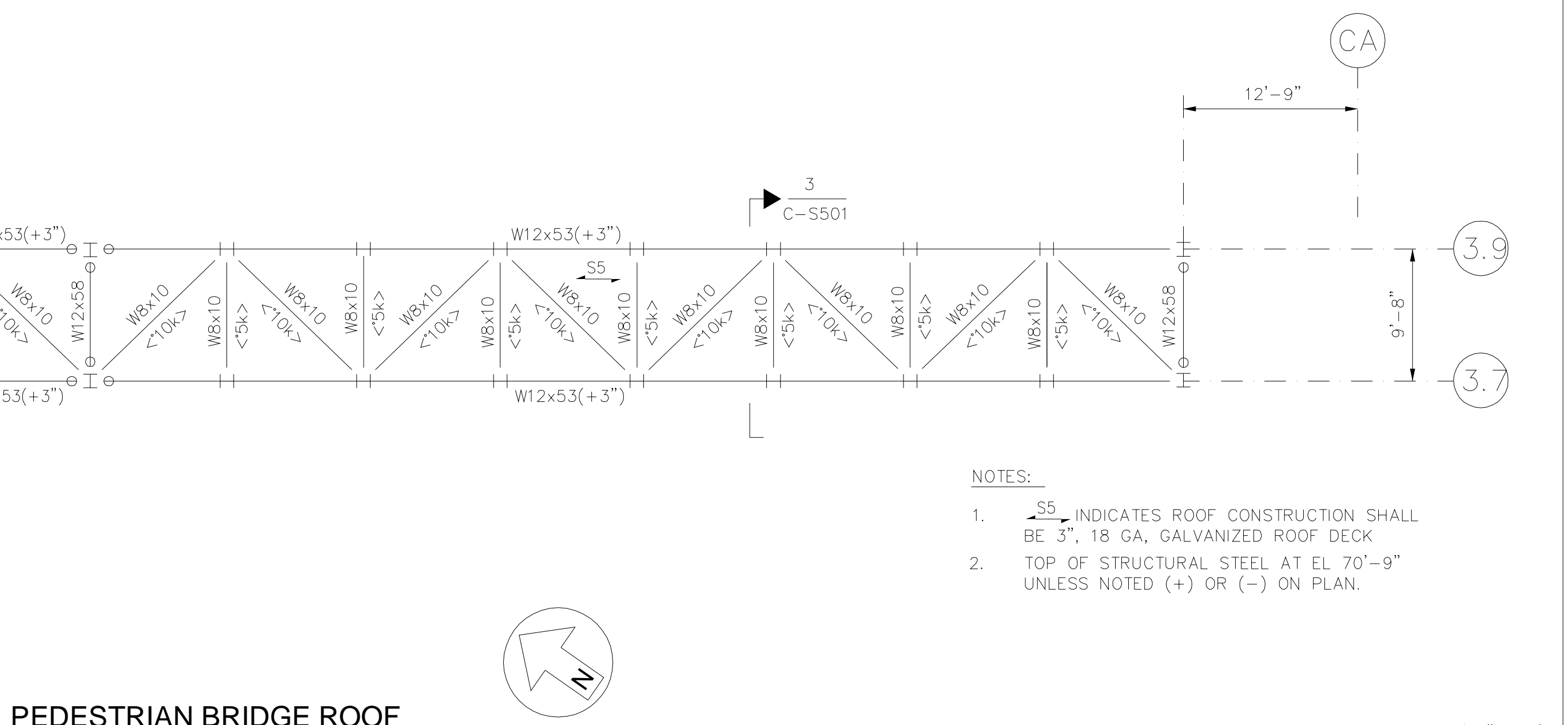
**2** SCALE: 3/4" = 1'-0"



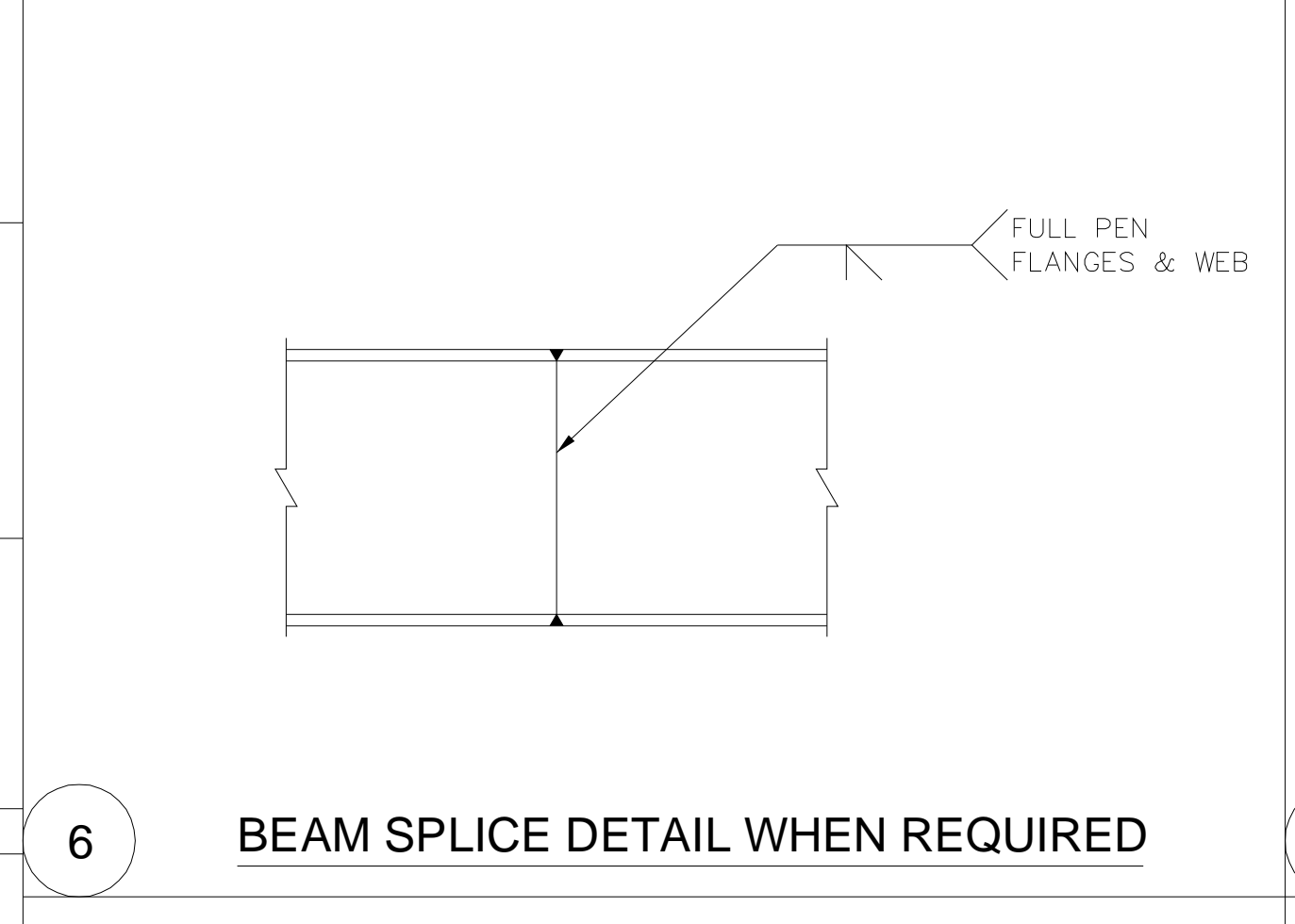
**3** SCALE: 1/2" = 1'-0"



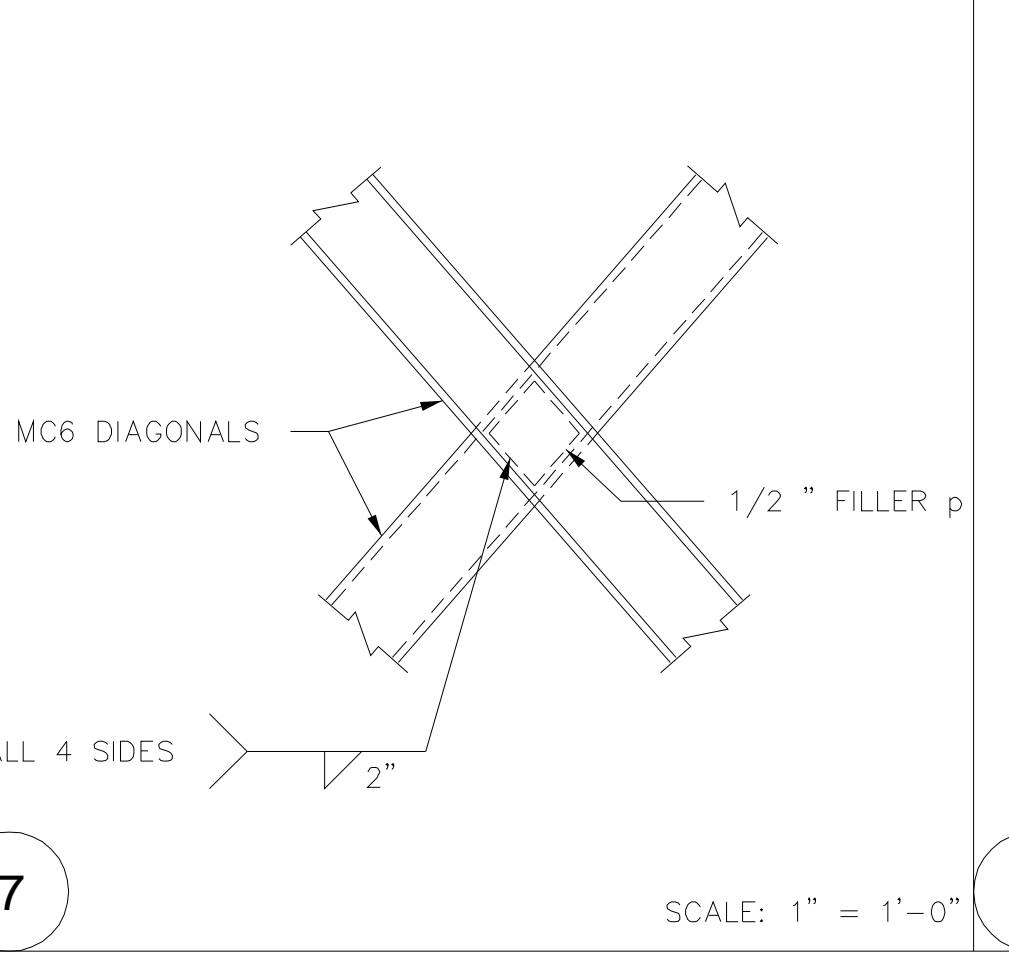
**4 PEDESTRIAN BRIDGE FLOOR** SCALE: 1/8" = 1'-0"



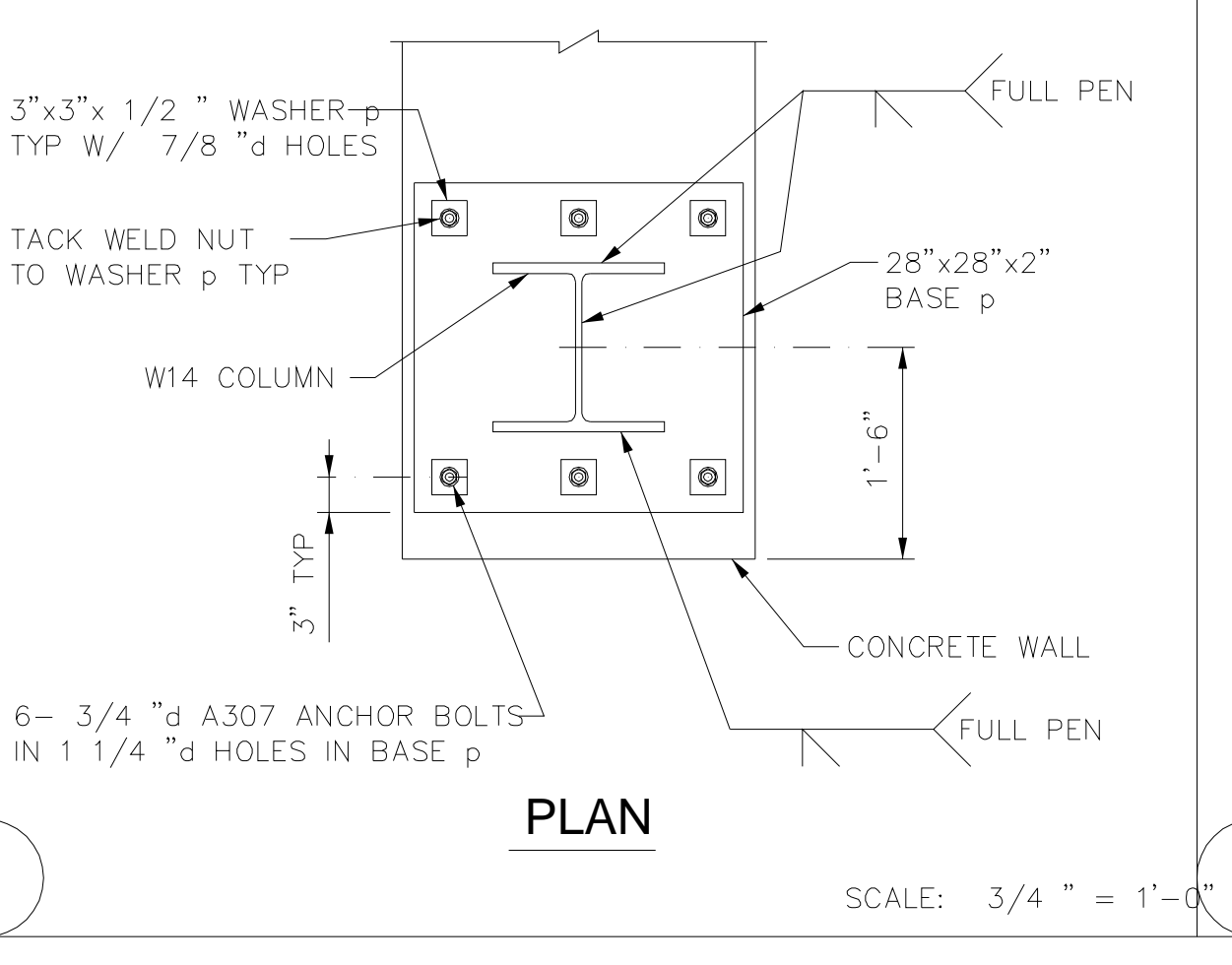
**5 PEDESTRIAN BRIDGE ROOF** SCALE: 1/8" = 1'-0"



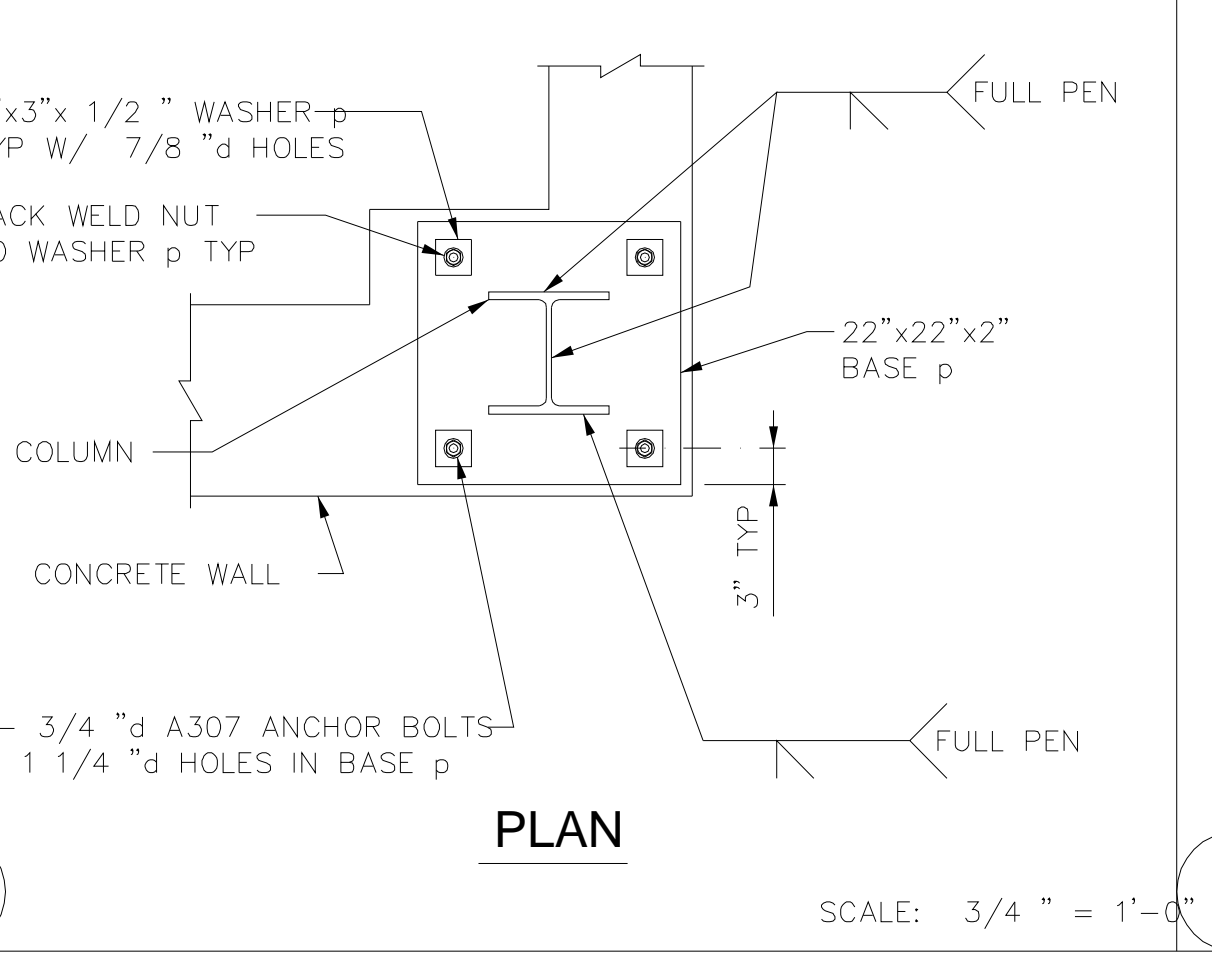
**6 BEAM SPLICE DETAIL WHEN REQUIRED**



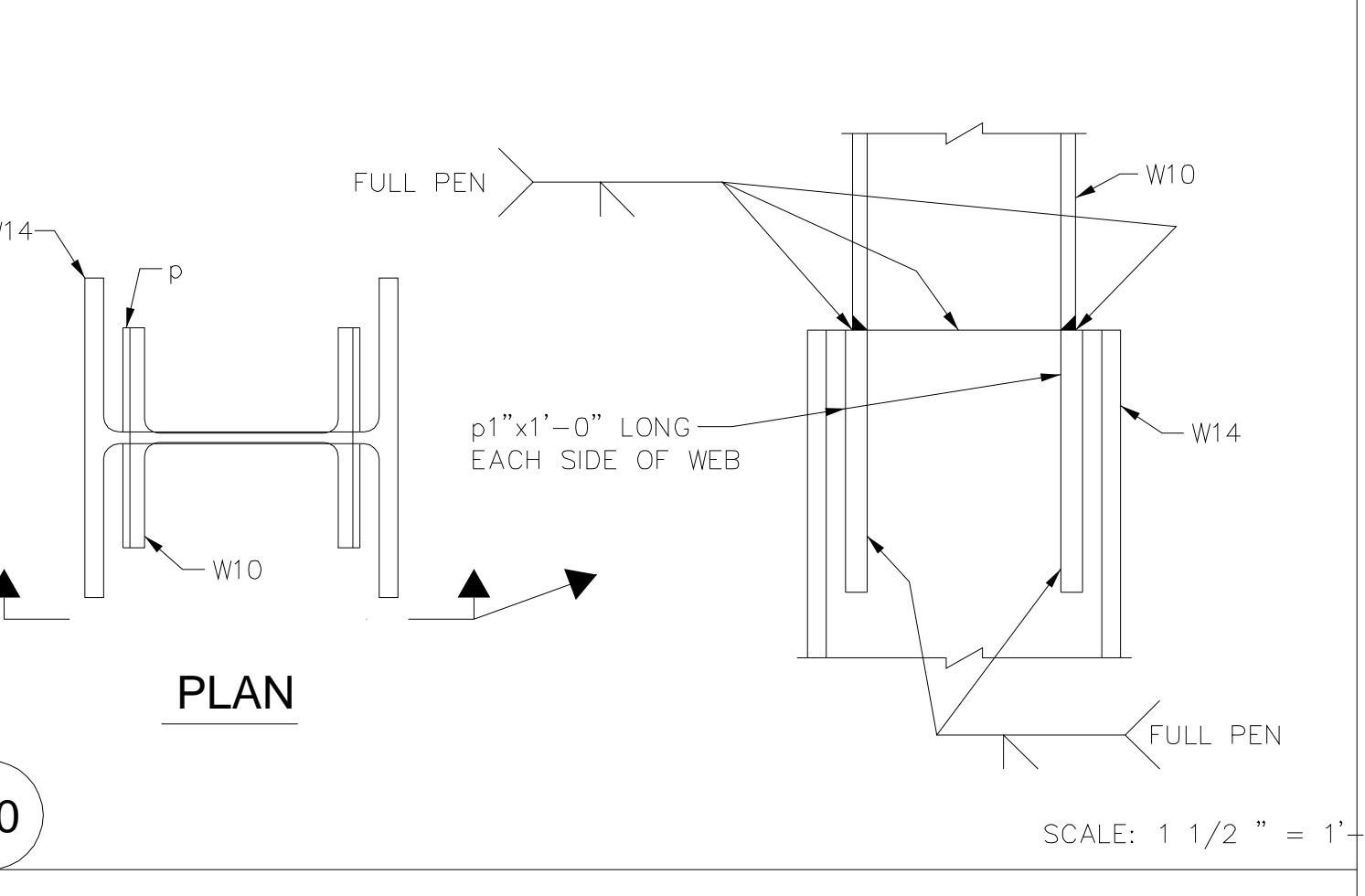
**7** SCALE: 1" = 1'-0"



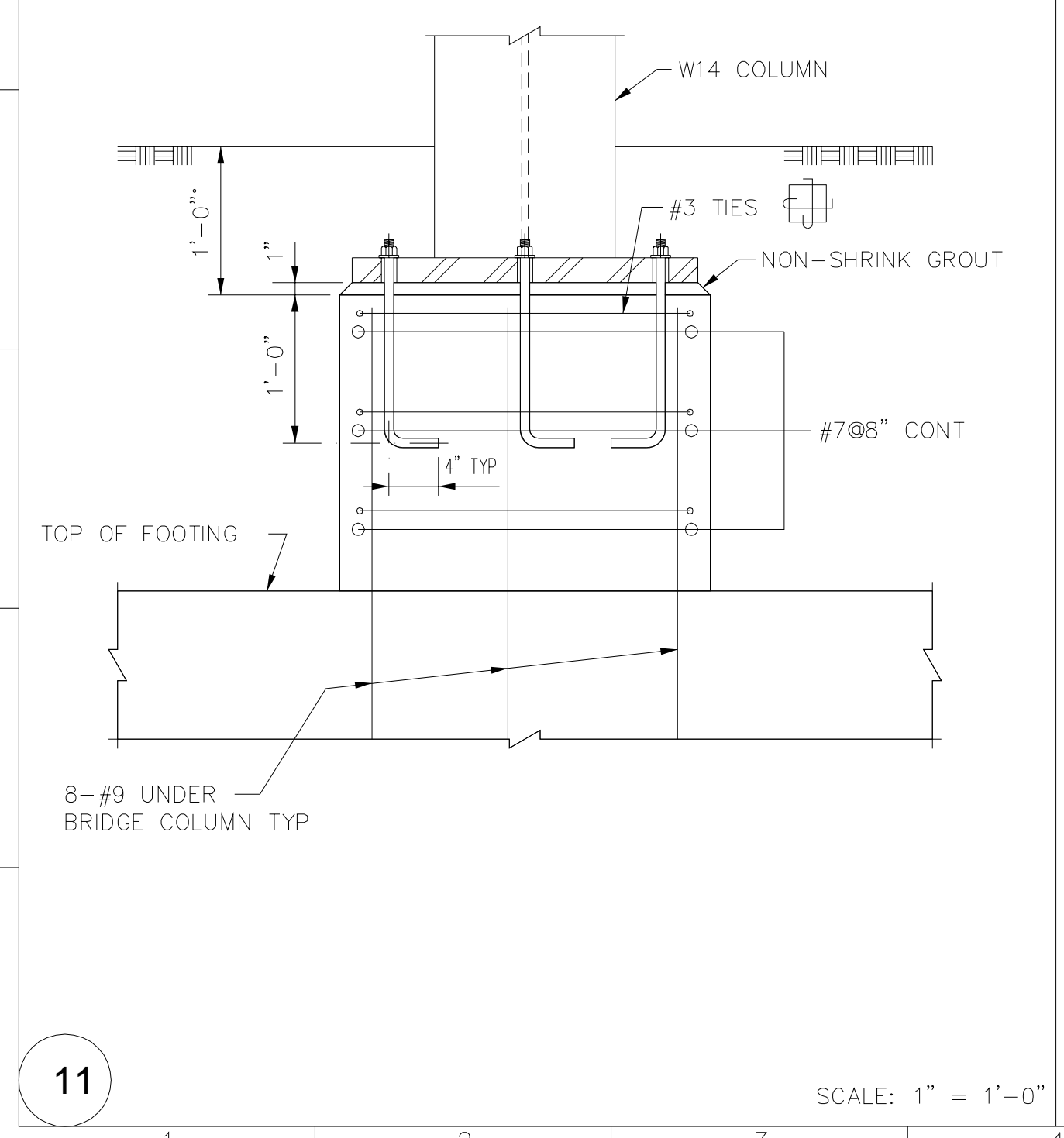
**8** SCALE: 3/4" = 1'-0"



**9** SCALE: 3/4" = 1'-0"



**10** SCALE: 1 1/2" = 1'-0"

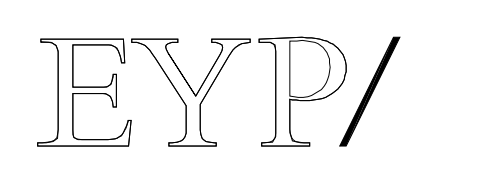


**11** SCALE: 1" = 1'-0"

- NOTES:
- FOR GENERAL NOTES AND ABBREVIATIONS SEE DRAWING C-5001.
  - FOR TYPICAL DETAILS SEE DRAWING C-5002 & C-5003.
  - ALL STEEL BRIDGE MEMBERS SHALL CONFORM TO AISC "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" (AESS), AND BE PAINTED (SEE SPECIFICATIONS).
  - INDICATES SPAN DIRECTION OF STEEL DECK.
  - INDICATES MOMENT CONNECTION, FOR DETAILS SEE DRAWING C-5003.
  - FOR BEAM EXPLANATION DIAGRAM SEE DRAWING C-5003.
  - <10k>, ETC, INDICATES AXIAL FORCE IN KIPS (+ = TENSION, - = COMPRESSION) FOR CONNECTION DESIGN. FORCES ARE IN ADDITION TO VERTICAL REACTIONS.
  - FORCES ARE UNFACTORED (ASD). NO STRESS INCREASE SHALL BE TAKEN FOR CONNECTION DESIGN.

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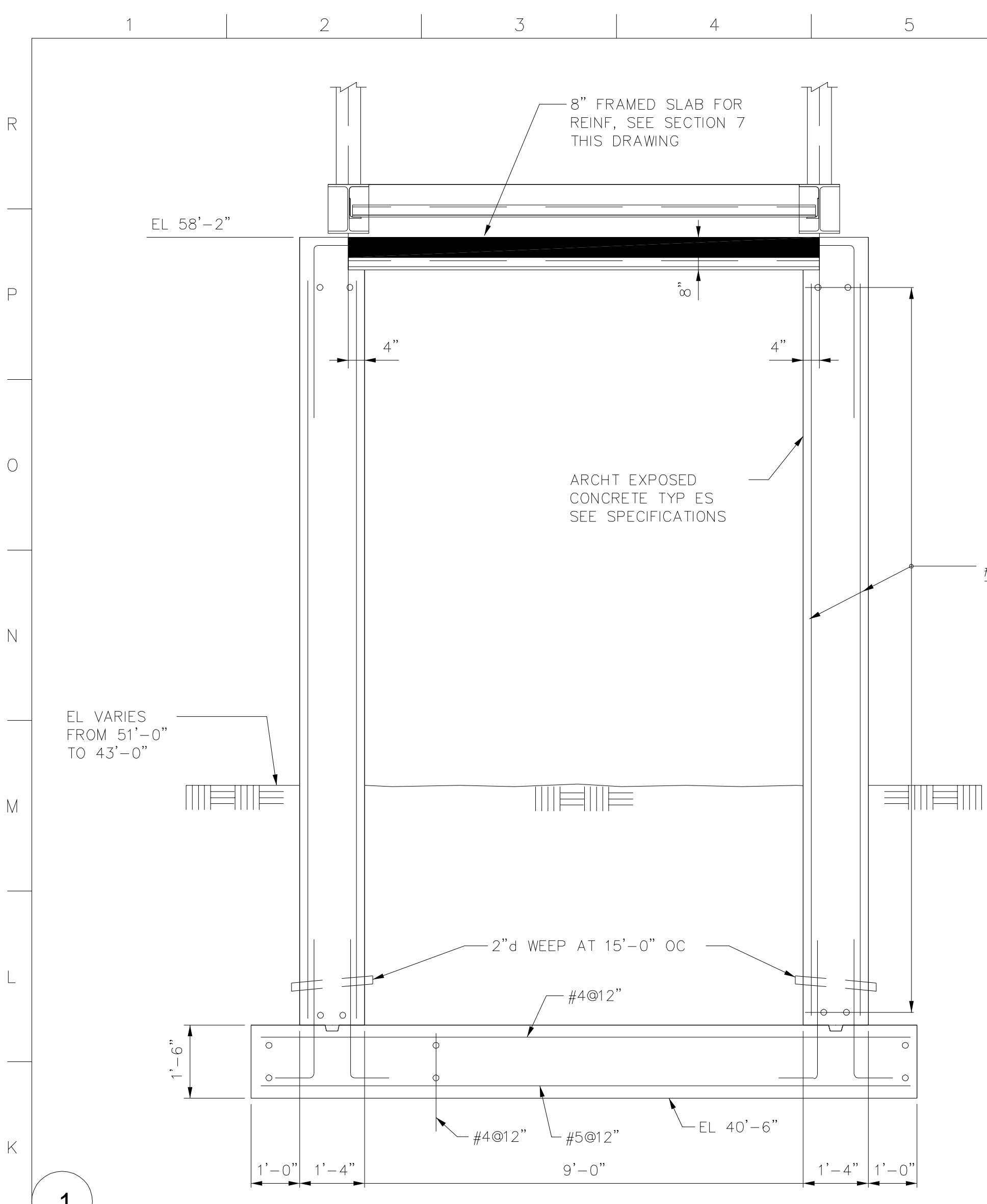


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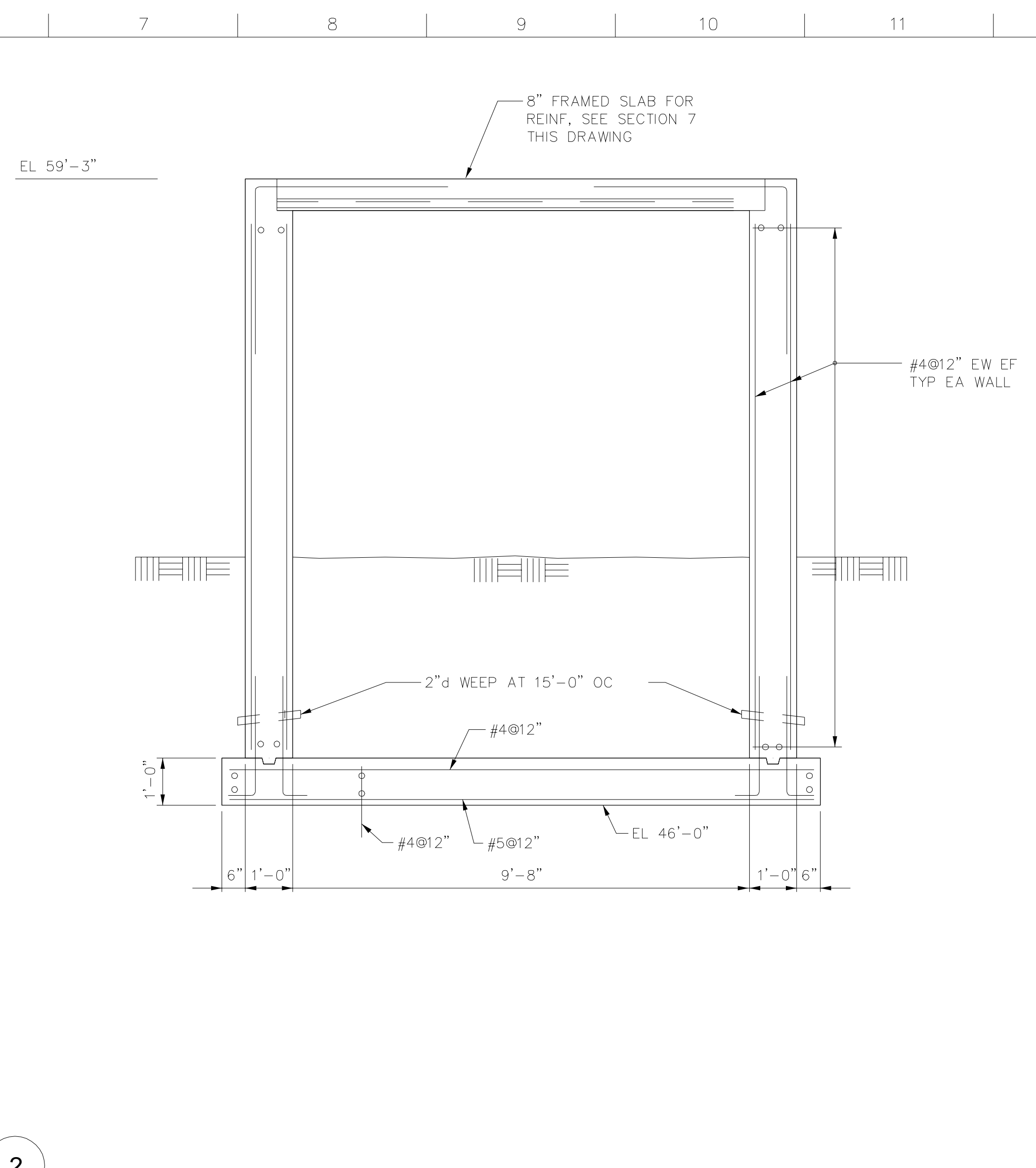
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drawing title <b>PEDESTRIAN BRIDGE PLANS, ELEVATION AND DETAILS</b>		
seal	designed by SKH	project no. 5001024.00
	drawn by EAM	CAD file no.
	checked by AL	drawing no.
date 01 / 09 / 2004	<b>C-S501</b>	
scale AS NOTED		

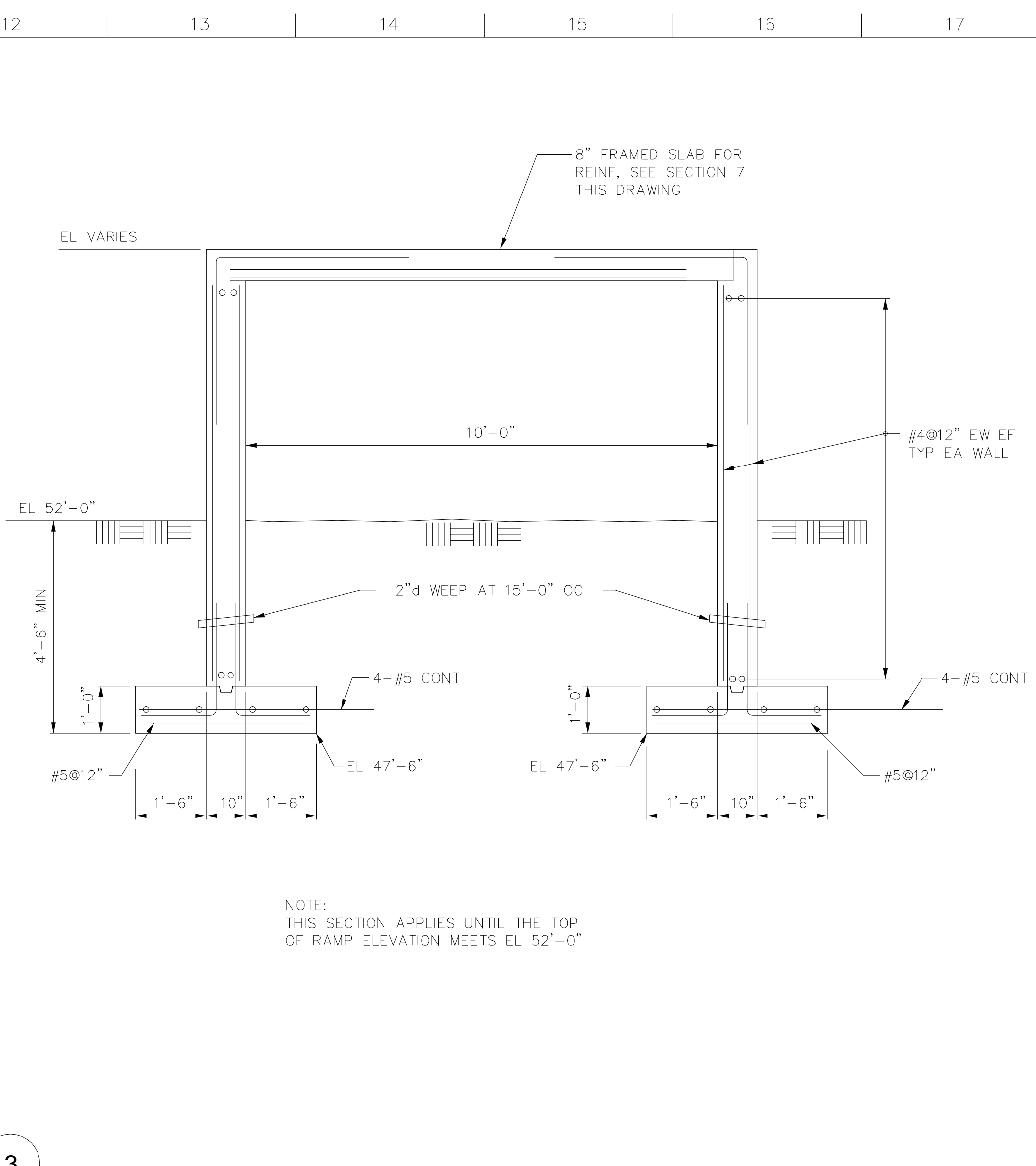
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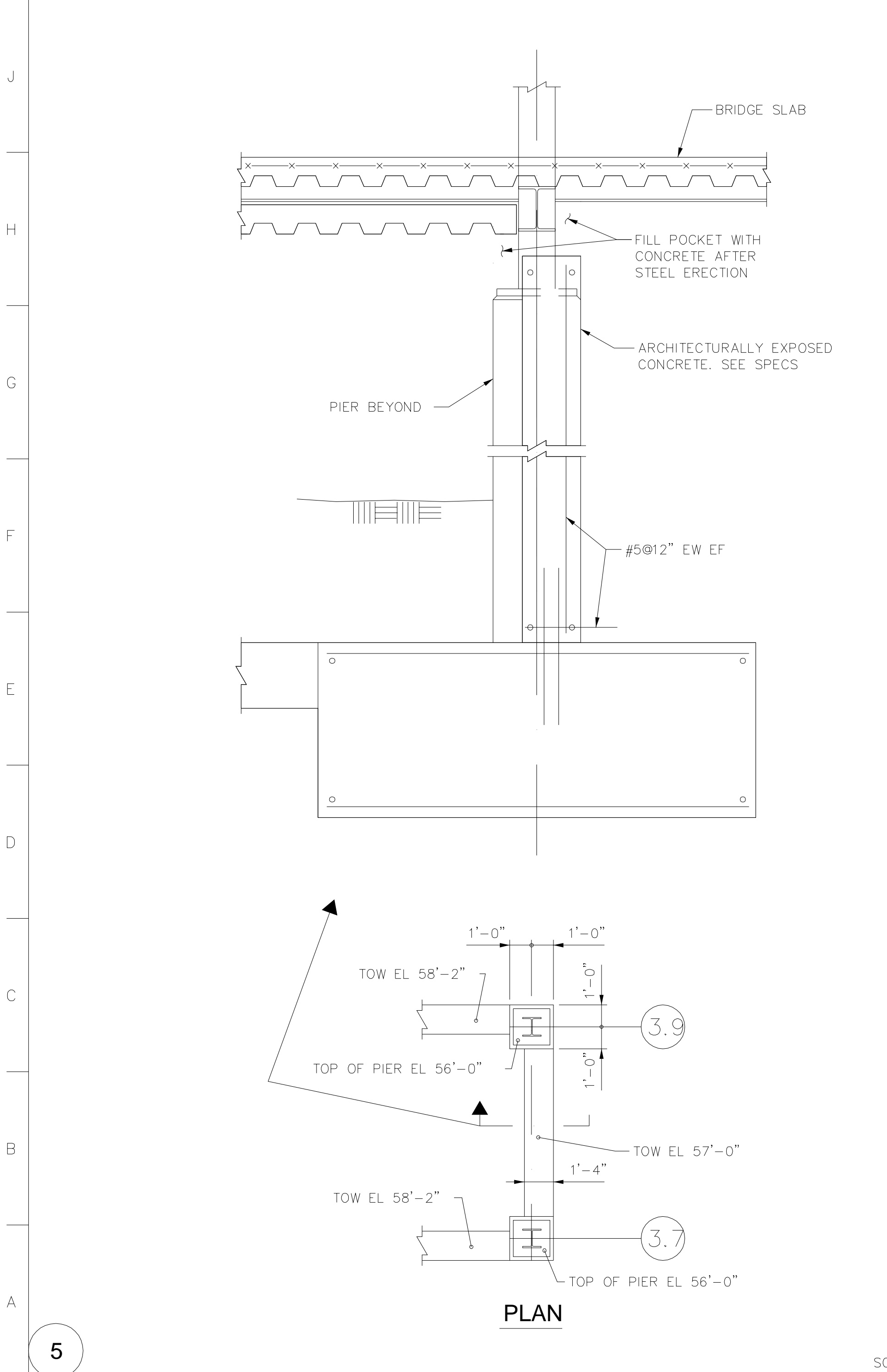
SCALE: 1/2" = 1'-0"



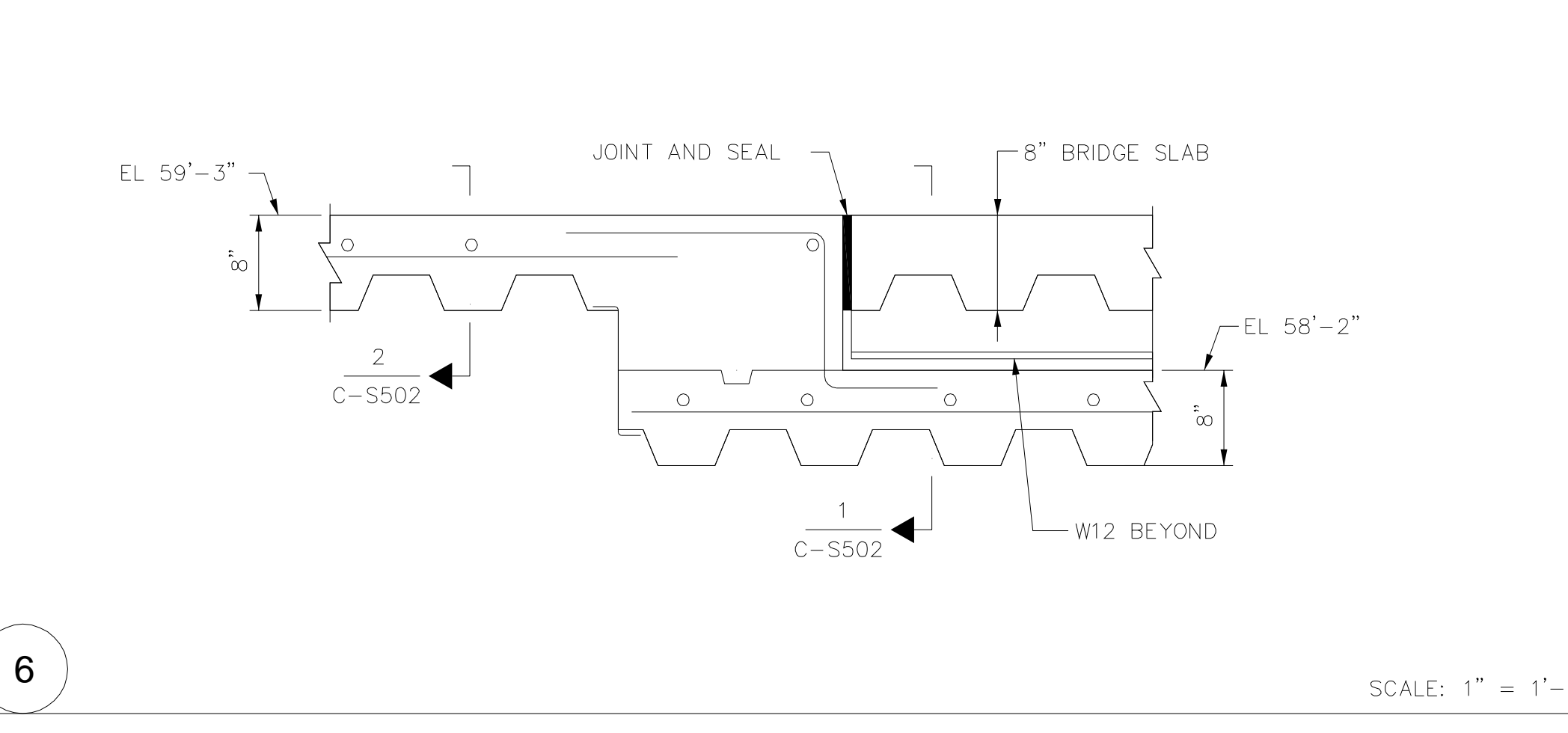
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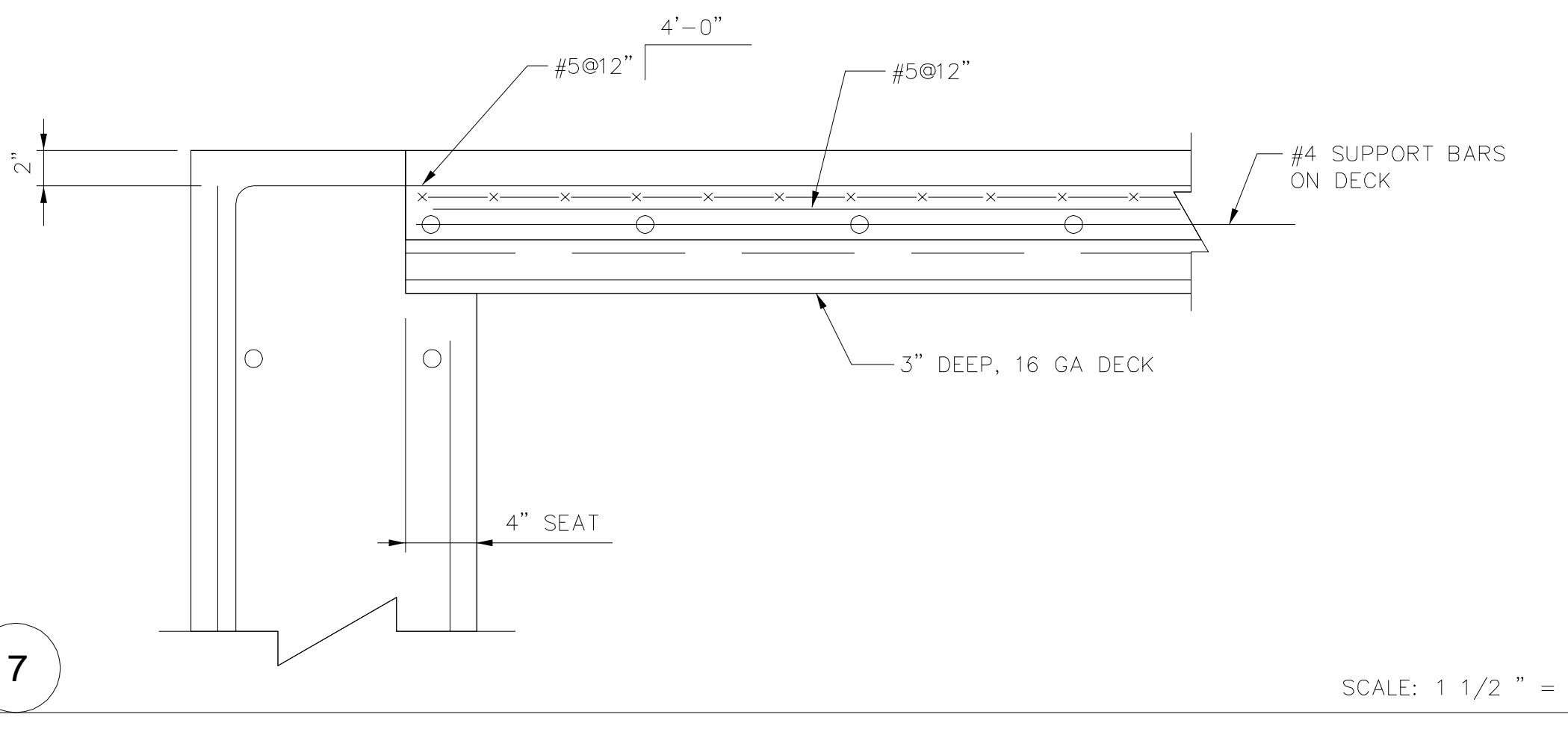
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SCALE: 1/2" = 1'-0"



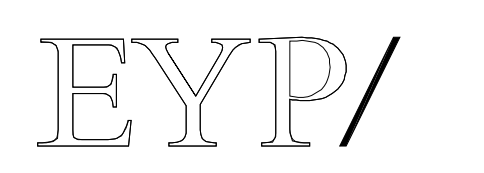
SCALE: 1" = 1'-0"



SCALE: 1 1/2" = 1'-0"

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drawing title <b>PEDESTRIAN BRIDGE SECTIONS AND DETAILS</b>		
seal	designed by SKH	project no. 5001024.00
	drawn by EAM	CAD file no.
	checked by AL	drawing no.
	date 01 / 09 / 2004	<b>C-S502</b>
	scale AS NOTED	

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