

GENERAL NOTES

- 1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS...
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS...
3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD...
4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED...
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER...
6. PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS AND GUIDE RAILS...
7. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK INCLUDING DESCRIPTION OF SHORING, AND CONSTRUCTION METHODS AND SEQUENCING WHERE APPLICABLE...
8. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED...
9. IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE/INTERNATIONAL BUILDING CODE (2009 EDITION, SECTION 1704.1), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED...
10. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS (UNFACTORED)

- 1. BUILDING CODE: MAINE UNIFORM BUILDING AND ENERGY CODE INTERNATIONAL BUILDING CODE, 2009 EDITION ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2. PLANK DESIGN DEAD LOADS: SUPERIMPOSED DEAD LOAD U.N.O.: 25 PSF MECHANICAL EQUIPMENT WEIGHT: PER PLANS 8" HOLLOW CORE (ASSUMED): 56 PSF**
3. DESIGN FLOOR LIVE LOADS: ALL GROUND FLOOR SPACES (RETAIL / RESTAURANT / OFFICE): 100 PSF PUBLIC / MEETING ROOMS AND CORRIDORS SERVING: 100 PSF PRIVATE ROOMS AND CORRIDORS SERVING: 40 PSF STAIRS: 100 PSF MECHANICAL / ELECTRICAL / LAUNDRY ROOMS: 100 PSF
4. DESIGN WIND LOAD: BASIC WIND SPEED: 100 MPH WIND LOAD IMPORTANCE FACTOR (Iw): 1.0 WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: +/-0.18 COMPONENTS & CLADDING PER ASCE 7-05
5. DESIGN SEISMIC LOADS: EQUIVALENT LATERAL FORCE PROCEDURE SEISMIC OCCUPANCY CATEGORY: II SEISMIC IMPORTANCE FACTOR (Ie): 1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss: 0.314 S1: 0.077 SEISMIC SITE CLASS: D SPECTRAL RESPONSE COEFFICIENTS: Sds: 0.324 Sd1: 0.123 SEISMIC DESIGN CATEGORY: B BASIC STRUCTURAL SYSTEM: BUILDING FRAME SYSTEM BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R=3) RESPONSE MODIFICATION FACTOR (R): 3.0 SEISMIC RESPONSE COEFFICIENT (Cs): 0.108

FOUNDATION NOTES (BEDROCK SUPPORTED)

- 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH A REPORT ENTITLED "GEOTECHNICAL ENGINEERING SERVICES, PROPOSED HYATT PLACE HOTEL, UNION AND FORE STREET, PORTLAND, MAINE", PREPARED BY S.W. COLE ENGINEERING INC., DATED 10/11/2012...
2. FOUNDATION DESIGN IS BASED ON FOUNDATIONS BEARING DIRECTLY ON, OR SOCKETED INTO, SOUND BEDROCK PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT...
3. ALLOWABLE BEARING CAPACITY 20,000 PSF
4. EXTEND BOTTOM OF EXTERIOR GRADE BEAMS AT LEAST 4.5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
5. NO FOUNDATION ELEMENTS SHALL BE PLACED UNTIL BEARING CONDITIONS HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
6. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS.
7. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION...
8. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

CONCRETE NOTES

- 1. CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION...
2. ALL CONCRETE FOR DRILLED PIERS, GRADE BEAMS, & FOOTINGS AT ROCK ANCHORS SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI...
3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE, OR SLABS.
5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315, LATEST EDITION.
6. FIBER REINFORCEMENT SHALL BE TYPE III SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
7. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
8. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS...
9. REINFORCING UNLESS OTHERWISE SHOWN ON PLAN.
10. WELDING OF REINFORCEMENT IS NOT PERMITTED
11. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS...
12. CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY...
13. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS:
14. ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL...
15. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP.
16. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS...
17. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT...
18. ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE.

PRECAST CONCRETE HOLLOW CORE PLANK

- 1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING: ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", PCI MNL-116 "MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF PRECAST AND PRESTRESSED CONCRETE PRODUCTS" AND PCI "DESIGN HANDBOOK-PRECAST AND PRESTRESSED CONCRETE".
2. PRECAST HOLLOW CORE PLANK SHALL BE DESIGNED FOR THE LIVE, DEAD, AND SNOW LOADS AS INDICATED UNDER "DESIGN LOADS" THIS SHEET AND ELSEWHERE ON THE DRAWINGS.
3. CONCRETE STRENGTH SHALL BE MINIMUM 5000 PSI AT 28 DAYS.
4. ALL CONCRETE SHALL BE AIR ENTRAINED...
5. PRESTRESSING TENDONS SHALL CONFORM WITH ASTM A416, GRADE 250.
6. COMPLETE SHOP DRAWINGS AND DESIGN CALCULATIONS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW...
7. COORDINATE WITH ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWING FOR LOCATION OF CUTS AND PENETRATIONS.

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" LATEST EDITION, AND THE "CODE OF STANDARD PRACTICE", LATEST EDITION.
2. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHER WISE (U.N.O.).
3. STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI.
4. CONNECTION DESIGN FOR THIS PROJECT IS THE RESPONSIBILITY OF THE FABRICATOR...
5. FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325N HIGH STRENGTH BOLTS (U.N.O.) EXCEPT WHERE SLIP CRITICAL CONNECTIONS ARE REQUIRED...
6. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION...
7. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP.
8. PROVIDE 3/8" MINIMUM STIFFENER PLATES EACH SIDE OF BEAM WEB AT BEAMS FRAMING OVER COLUMNS AND AT BEAMS SUPPORTING COLUMNS ABOVE.
9. PROVIDE 1/2" THICK LEVELING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED...
10. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHOR BLOTS ETC., SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC.
11. PROVIDE L 4 x 4 x 1/2 PLANK SUPPORT ANGLE AS REQUIRED AT COLUMNS U.N.O., SEE DETAILS FOR ADDITIONAL REQUIREMENTS.

GIRDER-SLAB STRUCTURAL SYSTEM NOTES

- 1. THE OPEN WEB DISSYMMETRIC BEAM (DB) SHALL BE FABRICATED FROM ASTM A 992/A572, GRADE 50 STANDARD WIDE FLANGE SECTIONS WITH GRADE 50 FLAT BAR AT THE TOP FLANGE AND SHALL MEET AISC STANDARDS EXCEPT FOR DEPTH, TOLERANCE +/-1/8 INCH, GAMBER SHALL BE BUILT IN DURING ASSEMBLY OF THE DISSYMMETRIC BEAM.
2. ERECTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING ALL, SHORING AS NECESSARY TO ERECT THE SUPERSTRUCTURE...
3. MINIMUM BEARING OF PRECAST PRESTRESSED HOLLOW CORE SLAB UNITS ON DISSYMMETRIC BEAMS SHALL BE 2 INCHES...
4. REINFORCING STEEL (ASTM A615, GRADE 60) SHALL BE PLACED THROUGH THE DISSYMMETRIC BEAM WEB OPENINGS INTO THE SLAB CORES.
5. CEMENTITIOUS GROUT (MIN. 4000 PSI) SHALL BE PLACED MONOLITHICALLY AROUND AND THROUGH THE DISSYMMETRIC BEAM WEB OPENINGS...
6. THE GIRDER-SLAB SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE UNDERWRITERS LABORATORIES, INC. FLOOR CEILING ASSEMBLY SPECIFIED BY THE ARCHITECT.
7. THE GIRDER-SLAB SYSTEM AND D-BEAM GIRDERS SHALL BE PROVIDED BY STEEL CONTRACTORS AUTHORIZED BY GIRDER-SLAB TECHNOLOGIES LLC OF NJ...
8. THE SUPPLIER OF THE GIRDER-SLAB SYSTEM SHALL PROVIDE TO THE PROJECT OWNER AND THE ARCHITECT A GIRDER-SLAB COMPLIANCE CERTIFICATE...
9. COMPLY WITH ALL APPLICABLE PROVISIONS OF THE STANDARDS AND CODES REFERENCED IN THE PROJECT SPECIFICATIONS.

METAL DECK

- 1. THE METAL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO THE FOLLOWING STANDARDS:
A. FLOOR DECKING: ASTM A1008, GRADE C, D OR ASTM A653, STRUCTURAL QUALITY, GRADE 40 OR HIGHER
B. ROOF DECKING: ASTM A1008, GRADE C, D OR ASTM A653, STRUCTURAL QUALITY, GRADE 33 OR HIGHER
2. FLOOR AND ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT).
3. FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES REFER TO SPECIFICATIONS.



Project Title

HYATT PLACE PORTLAND-OLD PORT

443 FORE STREET PORTLAND, ME

CSS Project No. 12013

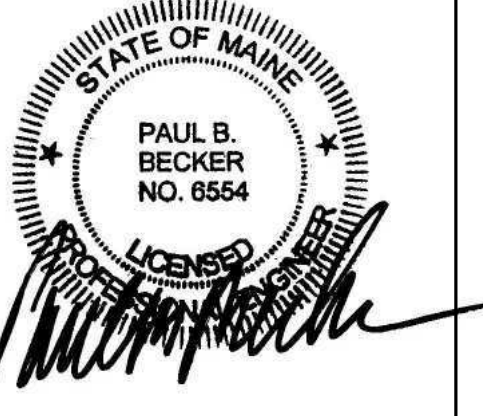


Table with 3 columns: Mark, Date, Description

Project Status

ISSUED FOR CONSTRUCTION 11/16/12

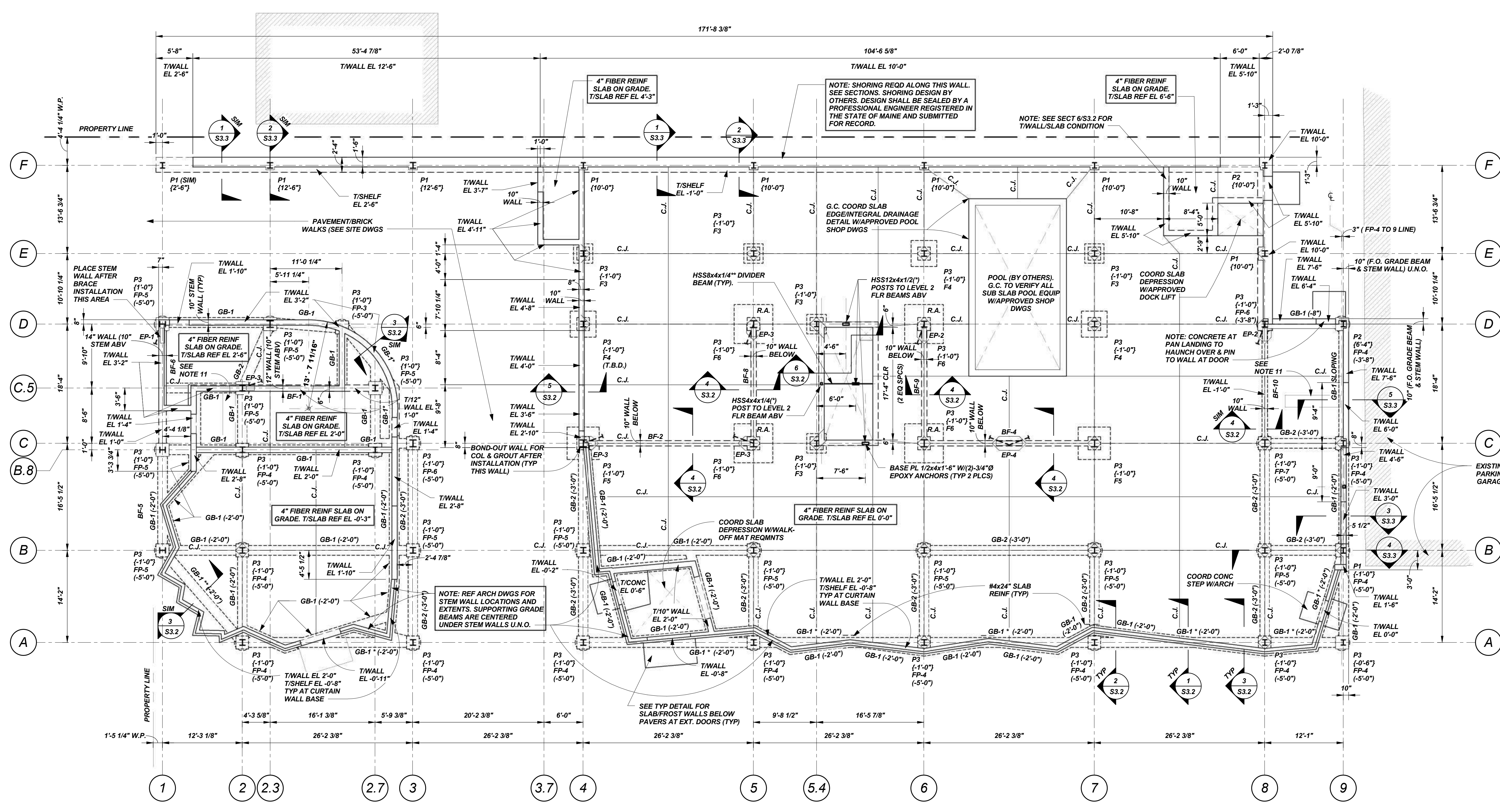
Drawing Title

GENERAL NOTES

Scale: NOT TO SCALE

Drawing Number

S1.0



FLOOR 1 FOUNDATION PLAN
 1/8"=1'-0"

- NOTES:**
- REFERENCE ELEVATION 0'-0" = SITE ELEVATION 24'-6". SEE SITE DWGS.
 - FP- INDICATES 30"Ø DRILLED SHAFT CONCRETE FOUNDATION PIER W/ 24"Ø ROCK SOCKET. ROCK SOCKET DEPTH SHALL BE AS INDICATED (I.E. FP-4 MEANS 4'-0" DEEP SOCKET). REINFORCE W/ #8 VERTS W/ #4 @ 12" O.C. TIES. TOP OF FOUNDATION PIER ELEV INDICATED THIS (X-X').
 - P1, P2, ETC. INDICATES CONCRETE PIER. SEE PIER DETAILS DWG S3.2. TOP OF PIER ELEV (-1'-0") U.N.O.
 - GB- INDICATES GRADE BEAM LOCATION. SEE SCHEDULE THIS DRAWING. TOP OF GRADE BEAM ELEV (-2'-0") U.N.O.
 - F- INDICATES SPREAD FOOTING BEARING ON LEDGE. SEE SCHEDULE THIS DRAWING.
 - HSS8x4x1/4 BEAM BETWEEN CARS. BEAM SIZE AND CONNECTIONS ON HOLD PENDING ELEVATOR DESIGN AND RAIL REQUIREMENTS. *INDICATES DIMENSION TO BE CONFIRMED WITH FINAL ELEVATOR SHOP DWGS.
 - COORD FLOOR DRAINS AND ASSOCIATED SLOPES WITH PLUMBING DWGS.
 - SEE DWGS S4.1 & S4.2 FOR COLUMN SIZES AND DWG S5.1 FOR BASE PLATE TYPES.
 - EP-1, ETC. INDICATES BRACED FRAME EMBED PLATE LOCATION. SEE BRACED FRAME ELEVATIONS, DWGS S2.1 & S2.2 AND BRACING DETAILS DWG S5.4.
 - R.A. INDICATES ROCK ANCHOR LOCATION. SEE TYP DETAIL DWG S3.2 FOR ADDL INFO.
 - THICKED SLAB TO 12" AT STAIR STRINGERS & POST LOCATIONS. COORD WITH STAIR DESIGN.

GRADE BEAM SCHEDULE

MARK	SIZE	LONGITUDINAL REINF	SIDE BARS	TIES
GB-1	18"x36"	3#8 TOP & BOT	2#6 E.S.	#3@12" O.C.
GB-2	18"x24"	3#6 TOP & BOT	2#6 E.S.	#3@12" O.C.

- NOTES:**
- * INDICATES #4 TIES @ 8" O.C. & 2#6 SIDE BARS E.S.
 - ** INDICATES #4 TIES @ 6" O.C. & 3#8 SIDE BARS E.S.
 - GRADE BEAM TOP REINF TO BE CONT THRU PIER (90° HOOKS AT GRADE BEAM ENDS). SPLICE TOP BARS AT GRADE BEAM MID SPAN. BOT BARS CONT THRU PIERS OR TERMINATE 6" MIN INTO PIER. SPLICE BOT BARS AT PIERS IF CONT.
 - GRADE BEAM PENETRATIONS TO OCCUR AT MID 1/3rd OF SPAN & AT MID 1/3rd OF GRADE BEAM DEPTH. PLACE PIPES IN OVERSIZED HOLE (12" MAX HOLE). PROVIDE (4) ADDL STIRRUPS EA SIDE OF PENETRATION. PROVIDE #6 SLASH BARS EA FACE.

FOOTING SCHEDULE

MARK	SIZE	REINF
F3	3'-0"x3'-0"x1'-0"	4#5 E.W.B.
F4	4'-0"x4'-0"x1'-0"	5#5 E.W.B.
F5	5'-0"x5'-0"x1'-3"	6#6 E.W.B.
F6	6'-0"x6'-0"x3'-0"	7#6 E.W.B. TOP & BOT

- NOTE:**
- FOOTING THICKNESSES INDICATED ARE MINIMUMS. INCREASE FOR LEDGE PROFILE AS REQD.

Mark Date Description

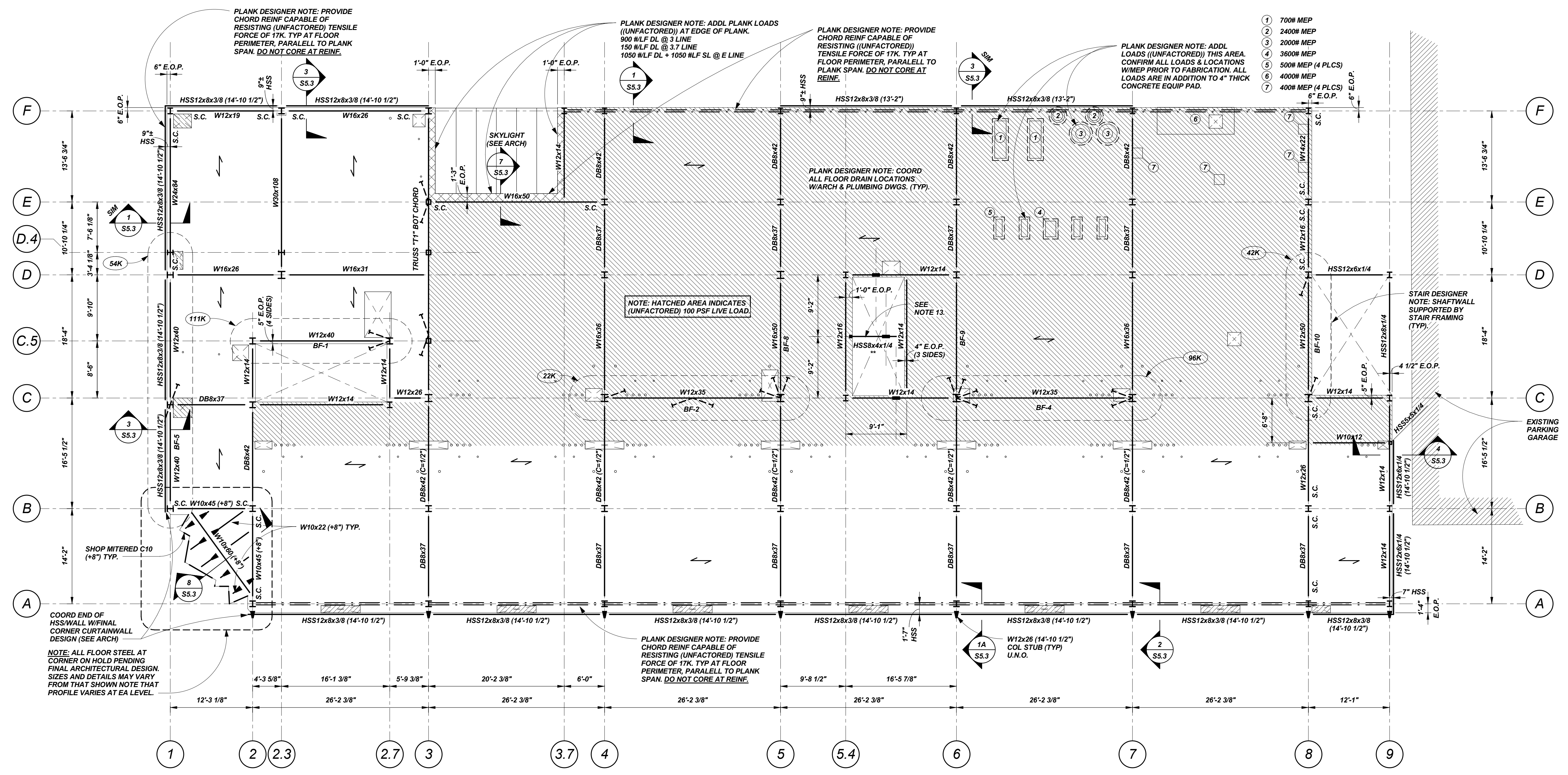
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Drawing Title
**FLOOR 1
 FOUNDATION
 PLAN**

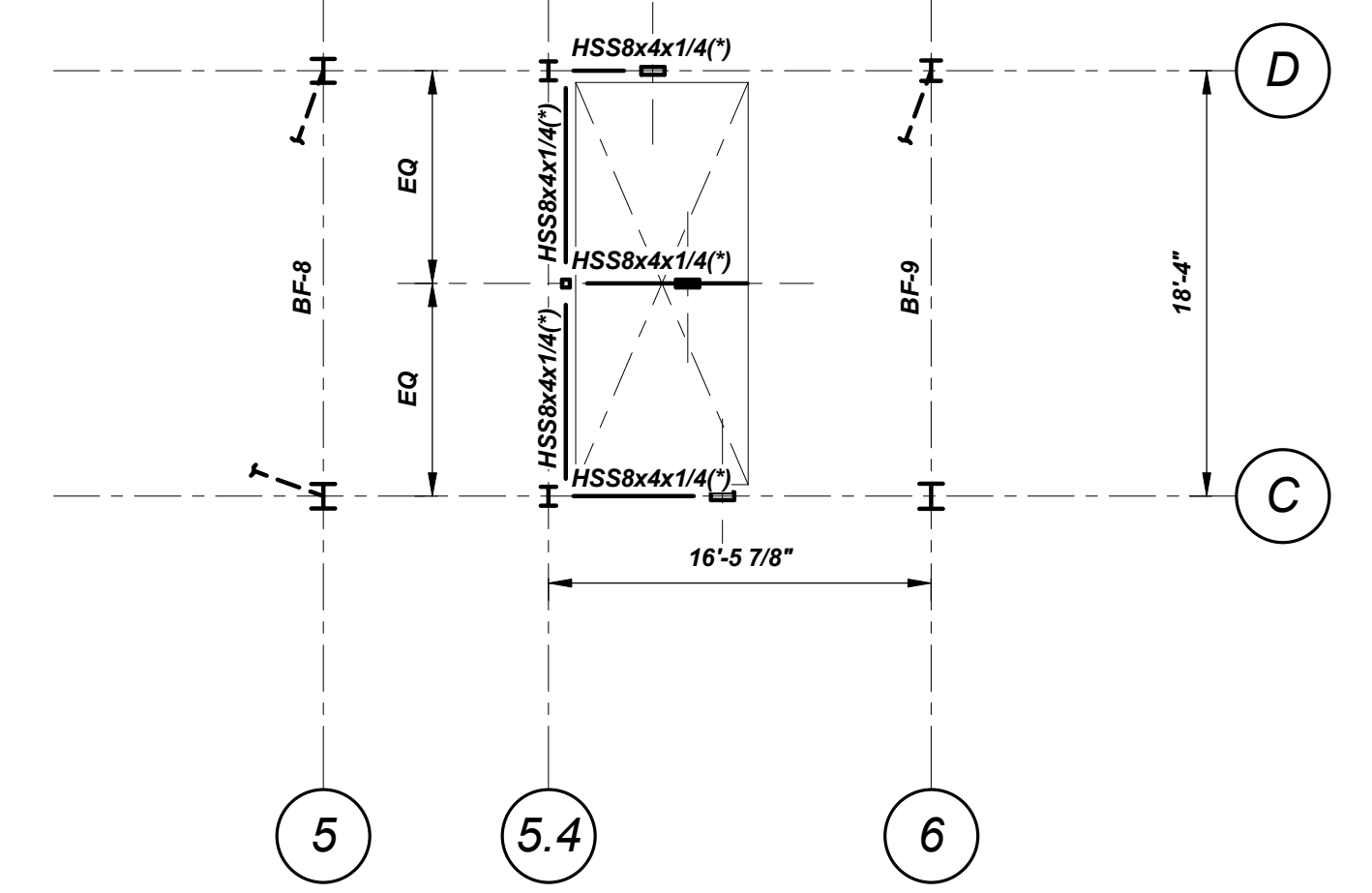
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S1.1



FLOOR 2 FRAMING PLAN
 1/8"=1'-0"

- NOTES:**
- "DB x " INDICATES DISSYMMETRIC BEAM (DB) GRADE 50 STEEL. SEE DWG S5.2 FOR TYPICAL DB BEAM/GIRDER SLAB DETAILS.
 - TOP OF "I"-BEAM BOTTOM FLANGE (PLANK BEARING EL.) IS TO MATCH T/WIDE FLANGE STEEL INDICATED BELOW.
 - TOP OF WIDE FLANGE STEEL REF EL 17'-4" U.N.O.
 - INDICATES SPAN DIRECTION OF 8" PRECAST PRESTRESSED HOLLOW CORE PLANK. SEE ARCH DWGS FOR FIN FLOOR REQMENTS.
 - TOP OF PLANK REF EL 18'-0" U.N.O.
 - PRECAST PLANK LAYOUT IS TO BE DETERMINED BY THE PRECAST PLANK SUPPLIER.
 - TEMPORARY BEAMS MAY BE REQUIRED FOR ERECTION. ERECTOR SHALL DETERMINE ALL TEMPORARY BRACING AND BRACING SEQUENCE. SEE SPECIFICATIONS FOR ADDL REQMENTS.
 - BF-xx INDICATES VERTICAL BRACING. SEE BRACING ELEVATIONS DWG S2.1, S2.2.
 - ALL STAIR STRUCTURES SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR A 100 PSF LIVE LOAD. COORDINATE ALL DETAILS WITH ARCHITECTURAL DRAWINGS AND SUBMIT DRAWING FOR REVIEW. DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.
 - INDICATES LOCATION OF CAST OPENING IN PLANK. PLANK DESIGNER SHALL COORD SIZE, LOCATIONS & QUANTITIES W/MEP DRAWINGS. PLANK MANUF/DESIGNER SHALL DESIGN & SUPPLY ANY HEADERS/FRAMES REQD FOR OPENINGS.
 - INDICATES LOCATION WHERE GROUP OF FIELD CORES ARE ANTICIPATED. PLANK DESIGNER SHALL COORD CORE SIZE, LOCATION & QUANTITIES W/MEP DRAWINGS. PLANK DESIGNER SHALL ACCOMMODATE THESE CORES IN DESIGN & PRESCRIBE ACCEPTABLE LOCATIONS IN LAYOUT DWGS. PLANK DESIGNER IS RESPONSIBLE TO CONFIRM AS-CORED LOCATIONS IN FIELD ARE CONSISTENT W/DESIGN INTENT.
 - INDICATES LOCATION OF INDIVIDUAL FIELD CORE. PLANK DESIGNER SHALL COORD CORE SIZE, LOCATION & QUANTITIES W/MEP DRAWINGS. PLANK DESIGNER SHALL ACCOMMODATE THESE CORES IN DESIGN & PRESCRIBE ACCEPTABLE LOCATIONS IN LAYOUT DWGS. PLANK DESIGNER IS RESPONSIBLE TO CONFIRM AS-CORED LOCATIONS IN FIELD ARE CONSISTENT W/DESIGNER INTENT.
 - HSS8x4x1/4 BEAM BETWEEN CARS. BEAM SIZE AND CONNECTIONS ON HOLD PENDING ELEVATOR DESIGN AND RAIL REQUIREMENTS. *INDICATES SIZE AND LOCATION TO BE CONFIRMED WITH FINAL ELEVATOR DWGS
 - S.C. INDICATES SLIP CRITICAL CONNECTION LOCATION. FABRICATOR'S CONNECTION DESIGNER TAKE NOTE.
 - (22K) INDICATES FORCE (UNFACTORED) TO BE TRANSFERRED FROM PLANK TO BEAM/BEAMS ENCIRCLED. PLANK DESIGNER TO DETERMINE IMPACT ON TYPICAL EMBED PLATE CAPACITY/QUANTITY AND ADJUST ACCORDINGLY.



ELEVATOR FRAMING PART PLAN
 1/8"=1'-0"

- NOTES:**
- TOP OF STEEL REF EL 9'-4" (*)

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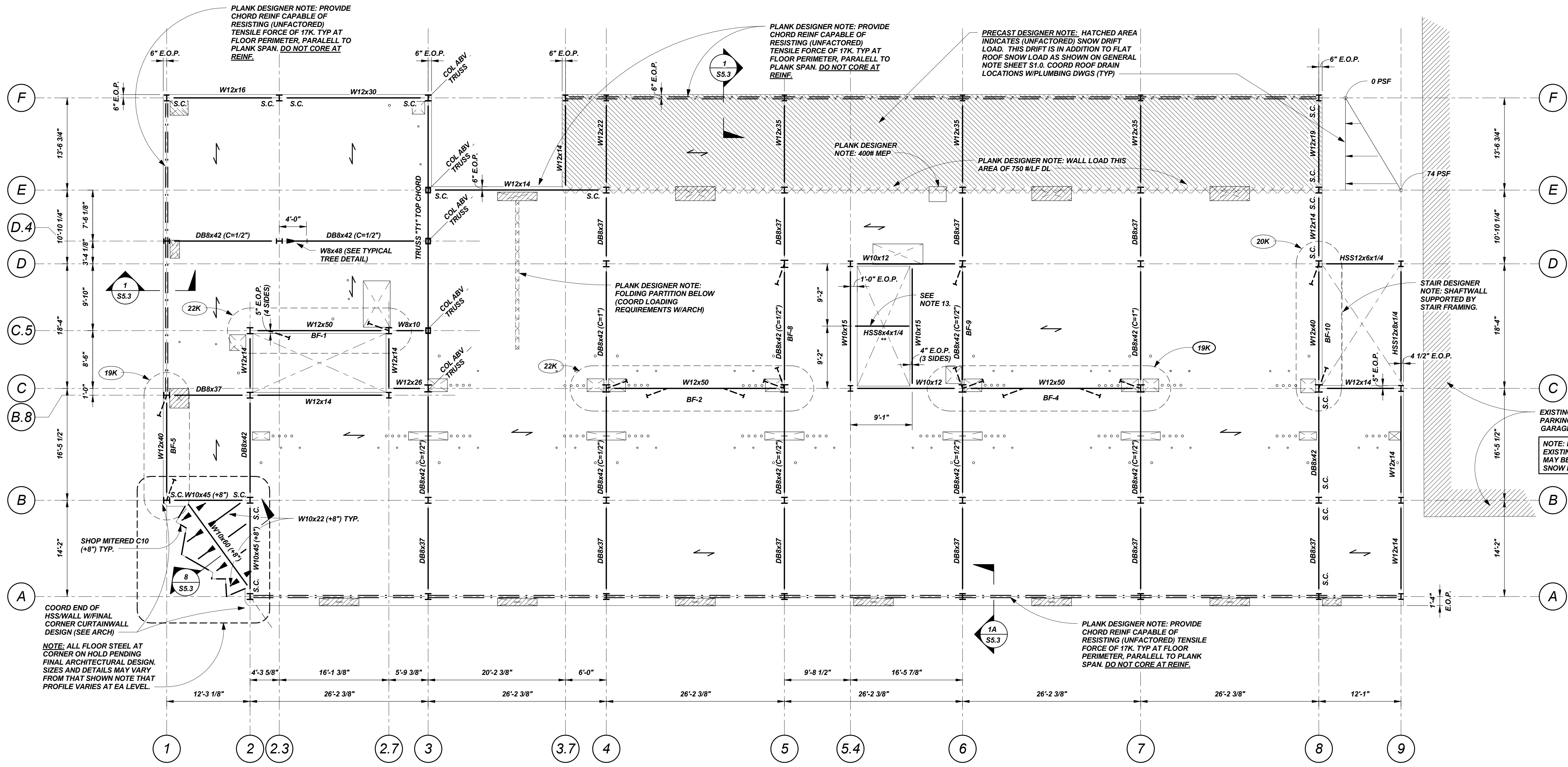
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**FLOOR 2
 FRAMING PLAN**

Scale: As indicated

Drawing Number

S1.2



FLOOR 3 FRAMING PLAN

1/8"=1'-0"

NOTES:

- "DB x" INDICATES DISSYMMETRIC BEAM (DB) GRADE 50 STEEL. SEE DWG S5.2 FOR TYPICAL DB BEAM/GIRDER SLAB DETAILS.
- TOP OF "D"-BEAM BOTTOM FLANGE (PLANK BEARING EL.) IS TO MATCH TWIDE FLANGE STEEL INDICATED BELOW.
- TOP OF WIDE FLANGE STEEL REF EL 27'-10" U.N.O.
- INDICATES SPAN DIRECTION OF 8" PRECAST PRESTRESSED HOLLOW CORE PLANK. SEE ARCH DWGS FOR FIN FLOOR REQMENTS.
- TOP OF PLANK REF EL 28'-6" U.N.O.
- PRECAST PLANK LAYOUT IS TO BE DETERMINED BY THE PRECAST PLANK SUPPLIER.
- TEMPORARY BEAMS MAY BE REQUIRED FOR ERECTION. ERECTOR SHALL DETERMINE ALL TEMPORARY BRACING AND BRACING SEQUENCE. SEE SPECIFICATIONS FOR ADDL REQMENTS.
- BF-xx INDICATES VERTICAL BRACING. SEE BRACING ELEVATIONS DWG S2.1, S2.2.
- ALL STAIR STRUCTURES SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR A 100 PSF LIVE LOAD. COORDINATE ALL DETAILS WITH ARCHITECTURAL DRAWINGS AND SUBMIT DRAWING FOR REVIEW. DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.
- INDICATES LOCATION OF CAST OPENING IN PLANK. PLANK DESIGNER SHALL COORD SIZE, LOCATIONS & QUANTITIES W/MEP DRAWINGS. PLANK MANUFACTURER SHALL DESIGN & SUPPLY ANY HEADERS/FRAMES REQD FOR OPENINGS.
- INDICATES LOCATION WHERE GROUP OF FIELD CORES ARE ANTICIPATED. PLANK DESIGNER SHALL COORD CORE SIZE, LOCATION & QUANTITIES W/MEP DRAWINGS. PLANK DESIGNER SHALL ACCOMMODATE THESE CORES IN DESIGN & PRESCRIBE ACCEPTABLE LOCATIONS IN LAYOUT DWGS. PLANK DESIGNER IS RESPONSIBLE TO CONFIRM AS-CORED LOCATIONS IN FIELD ARE CONSISTENT W/DESIGN INTENT.
- INDICATES LOCATION OF INDIVIDUAL FIELD CORE. PLANK DESIGNER SHALL COORD CORE SIZE, LOCATION & QUANTITIES W/MEP DRAWINGS. PLANK DESIGNER SHALL ACCOMMODATE THESE CORES IN DESIGN & PRESCRIBE ACCEPTABLE LOCATIONS IN LAYOUT DWGS. PLANK DESIGNER IS RESPONSIBLE TO CONFIRM AS-CORED LOCATIONS IN FIELD ARE CONSISTENT W/DESIGNER INTENT.
- HSS8x4x14 BEAM BETWEEN CARS. BEAM SIZE AND CONNECTIONS ON HOLD PENDING ELEVATOR DESIGN AND RAIL REQUIREMENTS. *INDICATES SIZE AND LOCATION TO BE CONFIRMED WITH FINAL ELEVATOR SHOP DWGS.
- S.C. INDICATES SLIP CRITICAL CONNECTION LOCATION. FABRICATOR'S CONNECTION DESIGNER TAKE NOTE.
- (22K) INDICATES FORCE (UNFACTORED) TO BE TRANSFERRED FROM PLANK TO BEAM/BEAMS ENCLICLED. PLANK DESIGNER TO DETERMINE IMPACT ON TYPICAL EMBED PLATE CAPACITY/QUANTITY AND ADJUST ACCORDINGLY.

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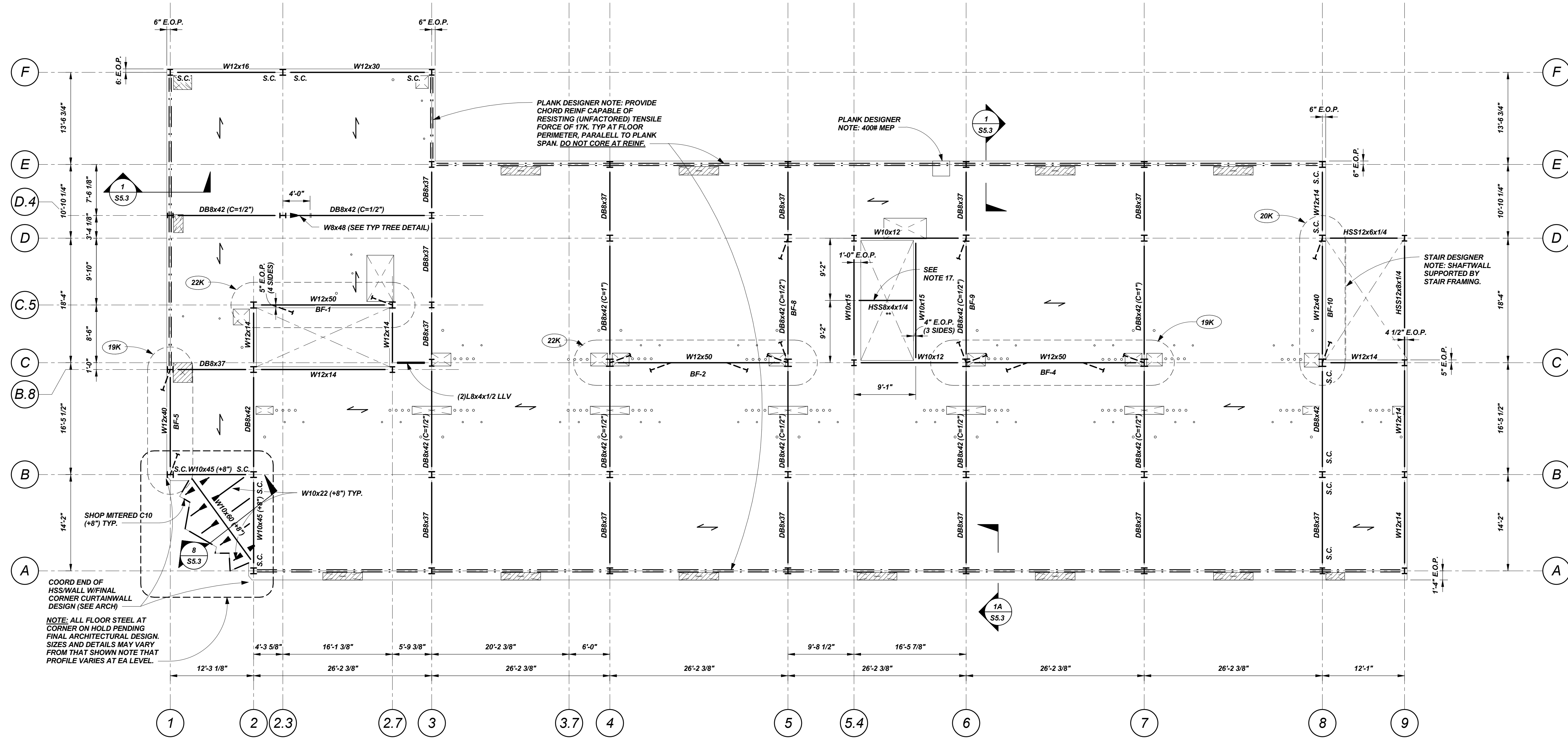
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FLOOR 3
FRAMING PLAN

Scale: As indicated

Drawing Number

S1.3



FLOORS 4-6 FRAMING PLAN

1/8"=1'-0"

NOTES:

- "DB_x_" INDICATES DISSYMMETRIC BEAM (DB) GRADE 50 STEEL. SEE DWG S5.2 FOR TYPICAL DB BEAM/GIRDER SLAB DETAILS.
- TOP OF "D"-BEAM BOTTOM FLANGE (PLANK BEARING EL.) IS TO MATCH T/WIDE FLANGE STEEL INDICATED BELOW.
- TOP OF WIDE FLANGE STEEL REF EL. 37'-2" U.N.O. AT FLOOR 4.
- TOP OF WIDE FLANGE STEEL REF EL. 46'-2" U.N.O. AT FLOOR 5.
- TOP OF WIDE FLANGE STEEL REF EL. 55'-10" U.N.O. AT FLOOR 6.
- INDICATES SPAN DIRECTION OF 8" PRECAST PRESTRESSED HOLLOW CORE PLANK. SEE ARCH DWGS FOR FIN FLOOR REQMENTS.
- TOP OF PLANK REF EL. 37'-10" U.N.O. AT FLOOR 4.
- TOP OF PLANK REF EL. 47'-2" U.N.O. AT FLOOR 5.
- TOP OF PLANK REF EL. 56'-6" U.N.O. AT FLOOR 6.
- PRECAST PLANK LAYOUT IS TO BE DETERMINED BY THE PRECAST PLANK SUPPLIER.
- TEMPORARY BEAMS MAY BE REQUIRED FOR ERECTION. ERECTOR SHALL DETERMINE ALL TEMPORARY BRACING AND BRACING SEQUENCE. SEE SPECIFICATIONS FOR ADDL REQMENTS.
- BF-x: INDICATES VERTICAL BRACING. SEE BRACING ELEVATIONS DWG S2.1, S2.2.
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- INDICATES LOCATION WHERE GROUP OF FIELD CORES ARE ANTICIPATED. PLANK DESIGNER SHALL COORD CORE SIZE, LOCATION & QUANTITIES W/MEP DRAWINGS. PLANK DESIGNER SHALL ACCOMMODATE THESE CORES IN DESIGN & PRESCRIBE ACCEPTABLE LOCATIONS IN LAYOUT DWGS. PLANK DESIGNER IS RESPONSIBLE TO CONFIRM AS-CORED LOCATIONS IN FIELD ARE CONSISTENT W/DESIGN INTENT.
- INDICATES LOCATION OF INDIVIDUAL FIELD CORE. PLANK DESIGNER SHALL COORD CORE SIZE, LOCATION & QUANTITIES W/MEP DRAWINGS. PLANK DESIGNER SHALL ACCOMMODATE THESE CORES IN DESIGN & PRESCRIBE ACCEPTABLE LOCATIONS IN LAYOUT DWGS. PLANK DESIGNER IS RESPONSIBLE TO CONFIRM AS-CORED LOCATIONS IN FIELD ARE CONSISTENT W/DESIGNER INTENT.
- HSS8x4x1/4 BEAM BETWEEN CARS. BEAM SIZE AND CONNECTIONS ON HOLD PENDING ELEVATOR DESIGN AND RAILEQUIREMENTS. * INDICATES SIZE AND LOCATION TO BE CONFIRMED WITH FINAL ELEVATOR SHOP DWGS.
- S.C. INDICATES SLIP CRITICAL CONNECTION LOCATION. FABRICATOR'S CONNECTION DESIGNER TAKE NOTE.
- 22K: INDICATES FORCE (UNFACTORED) TO BE TRANSFERRED FROM PLANK TO BEAM/BEAMS ENVICRLED. PLANK DESIGNER TO DETERMINE IMPACT ON TYPICAL EMBED PLATE CAPACITY/QUANTITY AND ADJUST ACCORDINGLY.

Mark	Date	Description

Project Status

ISSUED FOR
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11/16/12

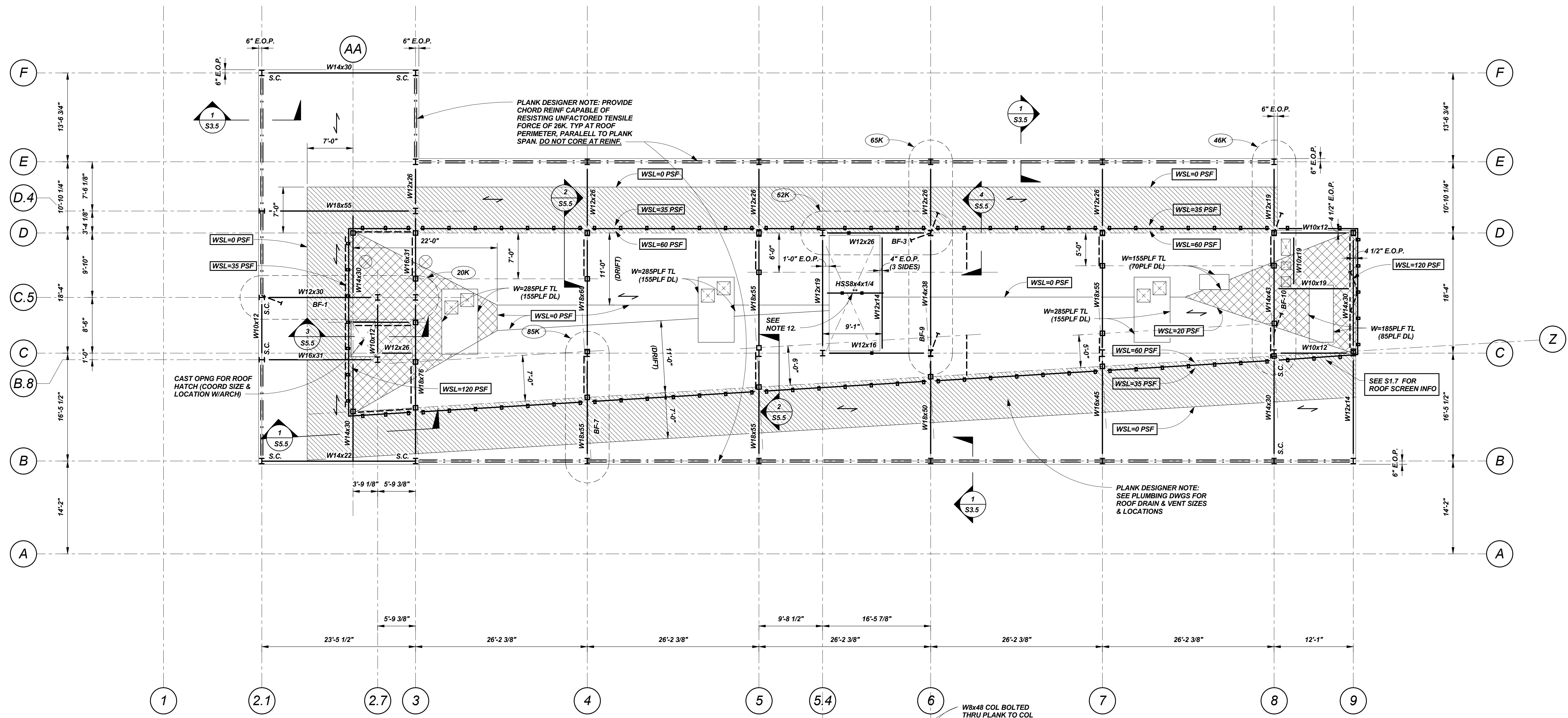
Drawing Title

FLOORS 4-6
FRAMING PLAN

Scale: As indicated

Drawing Number

S1.4

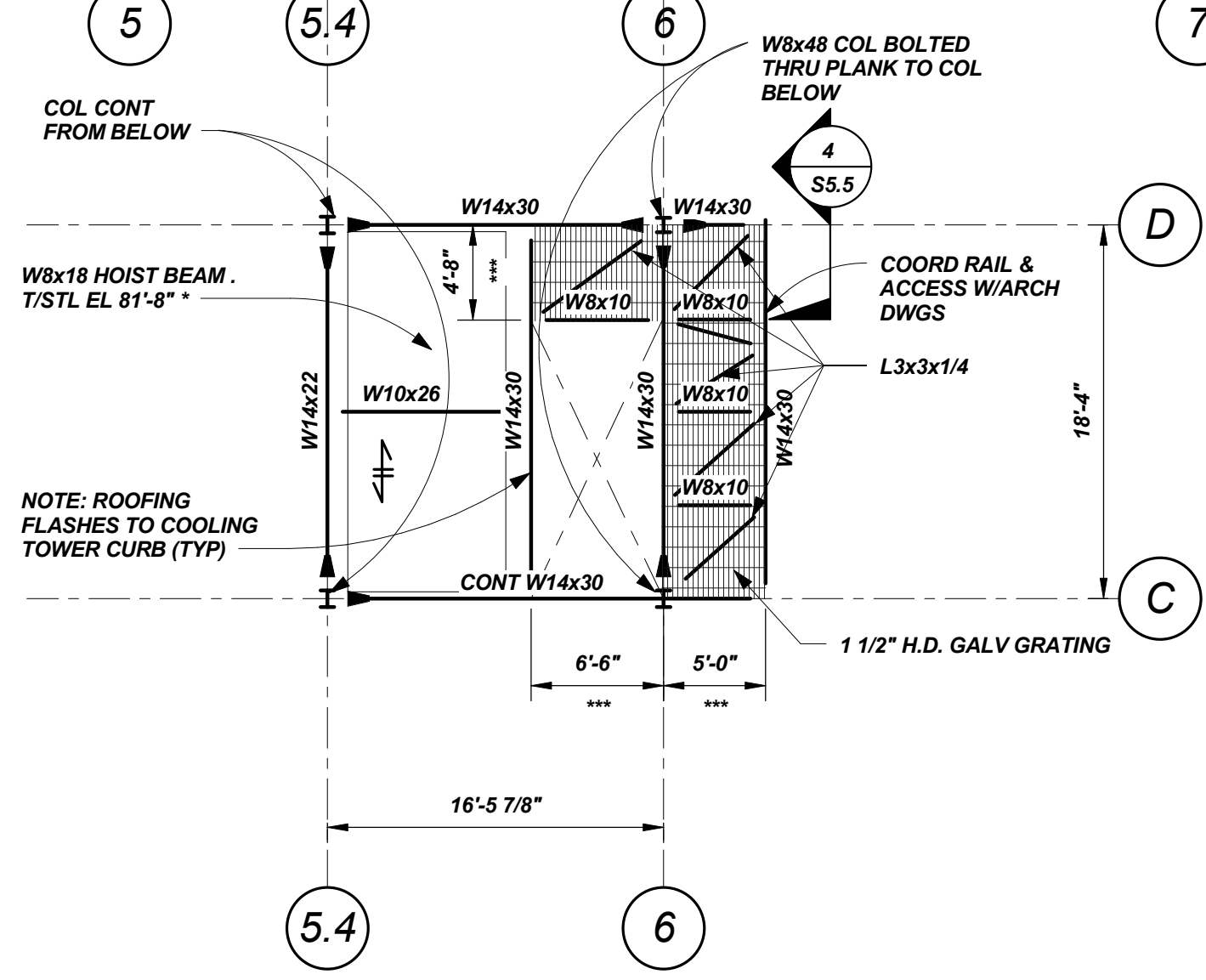


ROOF FRAMING PLAN

1/8"=1'-0"

NOTES:

- "DB x ." INDICATES DISSYMMETRIC BEAM (DB) GRADE 50 STEEL. SEE DWG S5.2 FOR TYPICAL DB BEAM/GIRDER SLAB DETAILS.
- TOP OF "D"-BEAM BOTTOM FLANGE (PLANK BEARING EL.) IS TO MATCH T/WIDE FLANGE STEEL INDICATED BELOW.
- TOP OF WIDE FLANGE STEEL REF EL 79'-4" U.N.O.
- INDICATES SPAN DIRECTION OF 8" PRECAST PRESTRESSED HOLLOW CORE PLANK. SEE ARCH DWGS FOR FIN FLOOR REQMENTS.
- TOP OF PLANK REF EL 80'-0" U.N.O.
- PRECAST PLANK LAYOUT IS TO BE DETERMINED BY THE PRECAST PLANK SUPPLIER.
- TEMPORARY BEAMS MAY BE REQUIRED FOR ERECTION. ERECTOR SHALL DETERMINE ALL TEMPORARY BRACING AND BRACING SEQUENCE. SEE SPECIFICATIONS FOR ADDL REQMENTS.
- BF-xx INDICATES VERTICAL BRACING. SEE BRACING ELEVATIONS DWG S2.1, S2.2.
- ALL STAIR STRUCTURES SHALL BE DESIGNED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC). STAIRS AND LANDINGS SHALL BE DESIGNED FOR A 100 PSF LIVE LOAD. COORDINATE ALL DETAILS WITH ARCHITECTURAL DRAWINGS AND SUBMIT DRAWING FOR REVIEW. DESIGN SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MAINE.
- INDICATES LOCATION OF CAST OPENING IN PLANK. PLANK DESIGNER SHALL COORD SIZE, LOCATIONS & QUANTITIES W/MEP DRAWINGS. PLANK MANUF/DESIGNER SHALL DESIGN & SUPPLY ANY HEADERS/FRAMES REQD FOR OPENINGS.
- S.C. INDICATES SLIP CRITICAL CONNECTION LOCATION. FABRICATOR'S CONNECTION DESIGNER TAKE NOTE.
- HSS8x4x1/4 BEAM BETWEEN CARS. BEAM SIZE AND CONNECTIONS ON HOLD PENDING ELEVATOR DESIGN AND RAIL REQUIREMENTS. * INDICATES SIZE AND LOCATION TO BE CONFIRMED WITH FINAL ELEVATOR SHOP DWGS.
- 65K INDICATES FORCE (UNFACTORED) TO BE TRANSFERRED FROM PLANK TO BEAM/BEAMS ENCIRCLED. PLANK DESIGNER TO DETERMINE IMPACT ON TYPICAL EMBED PLATE CAPACITY/QUANTITY AND ADJUST ACCORDINGLY.
- WLS=XX PSF INDICATES ADDITIONAL SUPERIMPOSED SNOW LOAD ON TOP OF BALANCED SNOW LOAD. SEE GENERAL NOTES FOR BALANCED SNOW LOAD.
- *** INDICATES DIM TO BE COORD W/APPROVED MECHANICAL UNIT REQMENTS.
- INDICATES (2) SPAN 3N16 STEEL DECK (0" E.O.D.).



**ELEVATOR OVERRUN/COOLING TOWER
DUNNAGE PARTIAL FRAMING PLAN**

1/8"=1'-0"

NOTES:

- TOP OF STEEL REF EL 83'-0".
- ALL EXPOSED STEEL AND FASTENERS TO BE H.D. GALV.
- INDICATES BOLTED MOMENT CONNECTION TO BE DESIGNED BY CONNECTION DESIGNER FOR 45FT-K

Mark	Date	Description

Project Status

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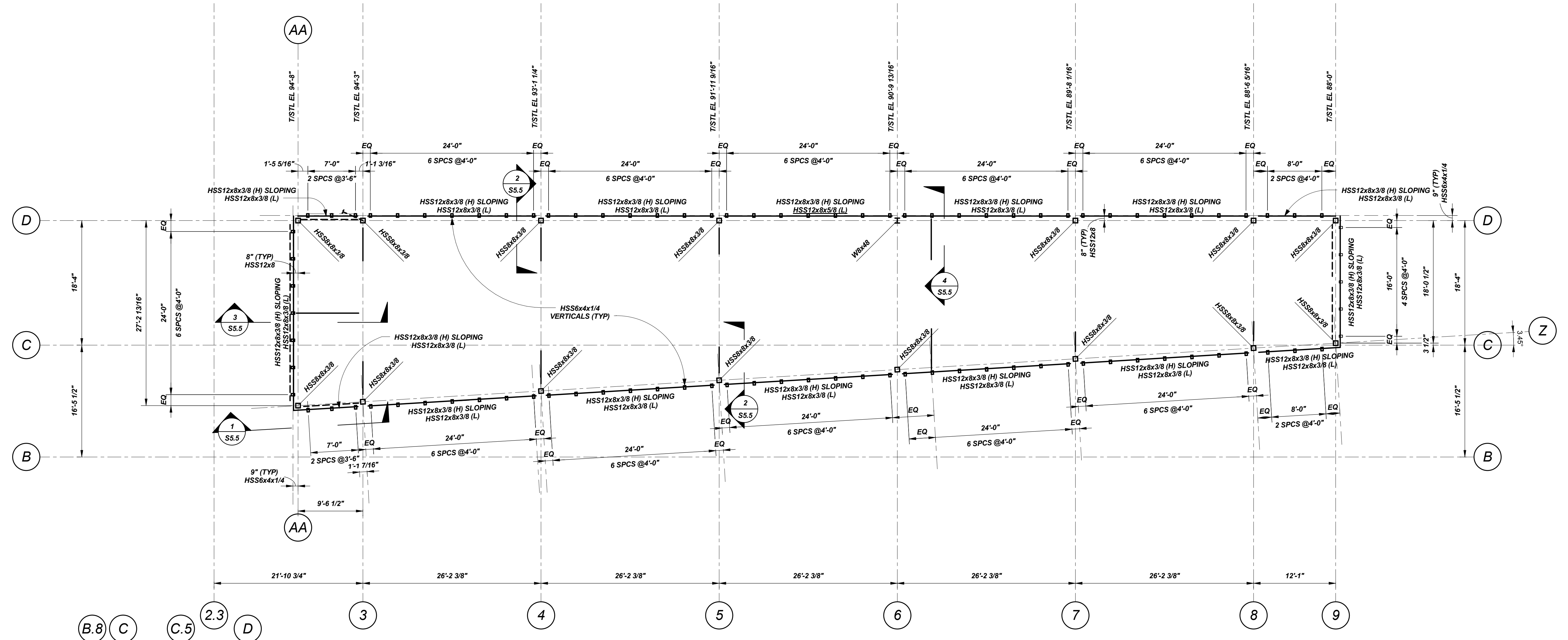
Drawing Title

ROOF FRAMING
PLAN

Scale: As indicated

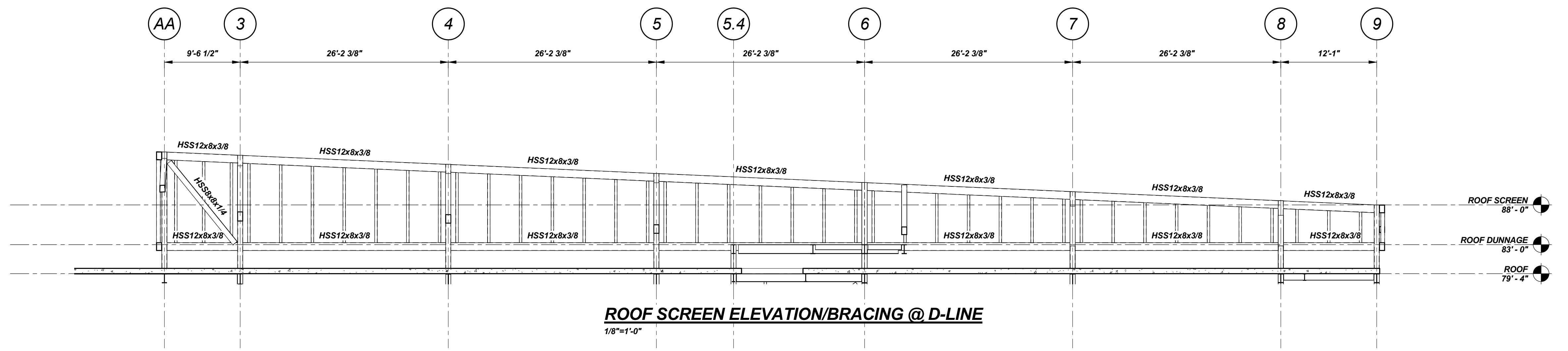
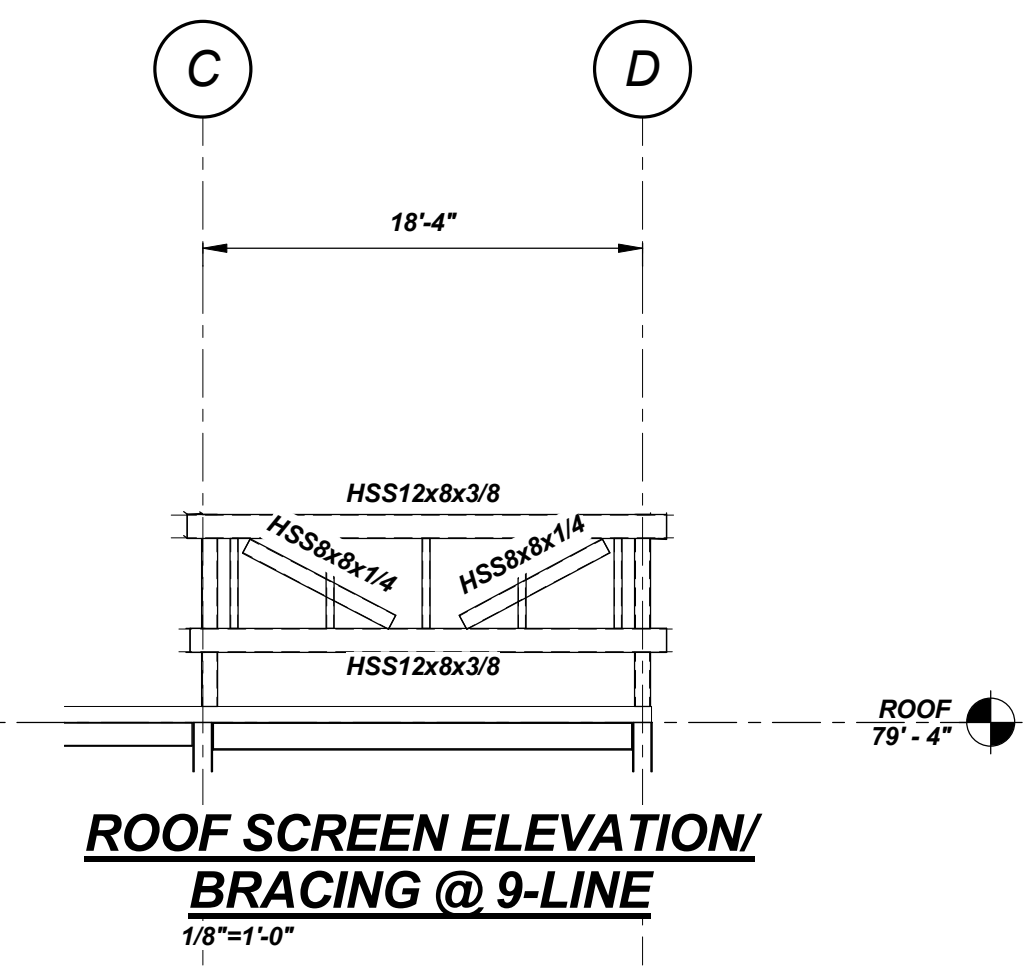
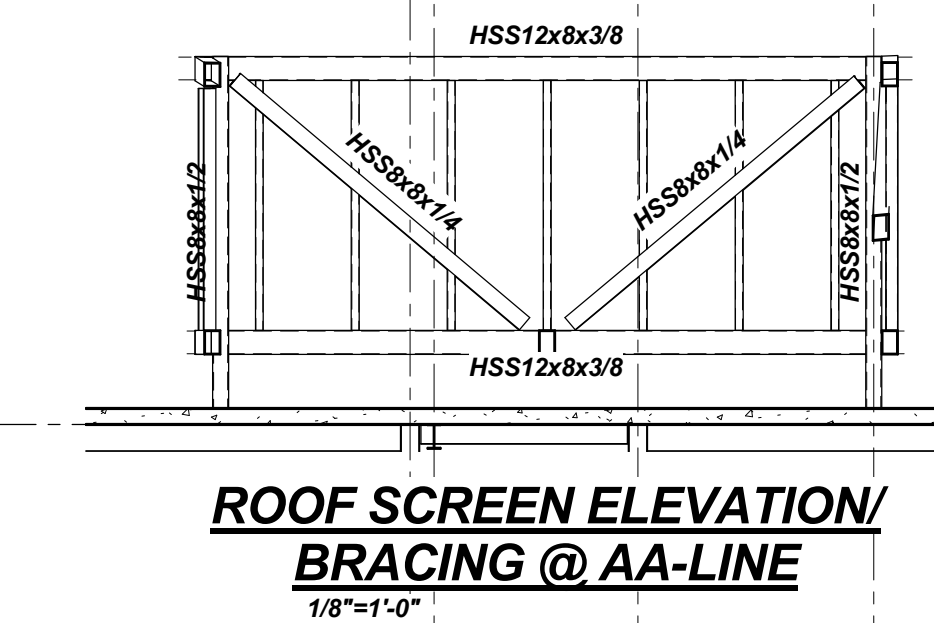
Drawing Number

S1.6



ROOF SCREEN FRAMING PLAN

- 1/8"=1'-0"
 NOTES:
 1. TOP OF STEEL REF EL HIGH (H) VARIES (SEE PLAN).
 2. TOP OF STEEL REL EL LOW (L) 83'-3" U.N.O.
 3. INDICATES HSS8x8x3/8 BRACE.
 4. ALL STEEL AT ROOF SCREEN TO BE H.D. GALV.



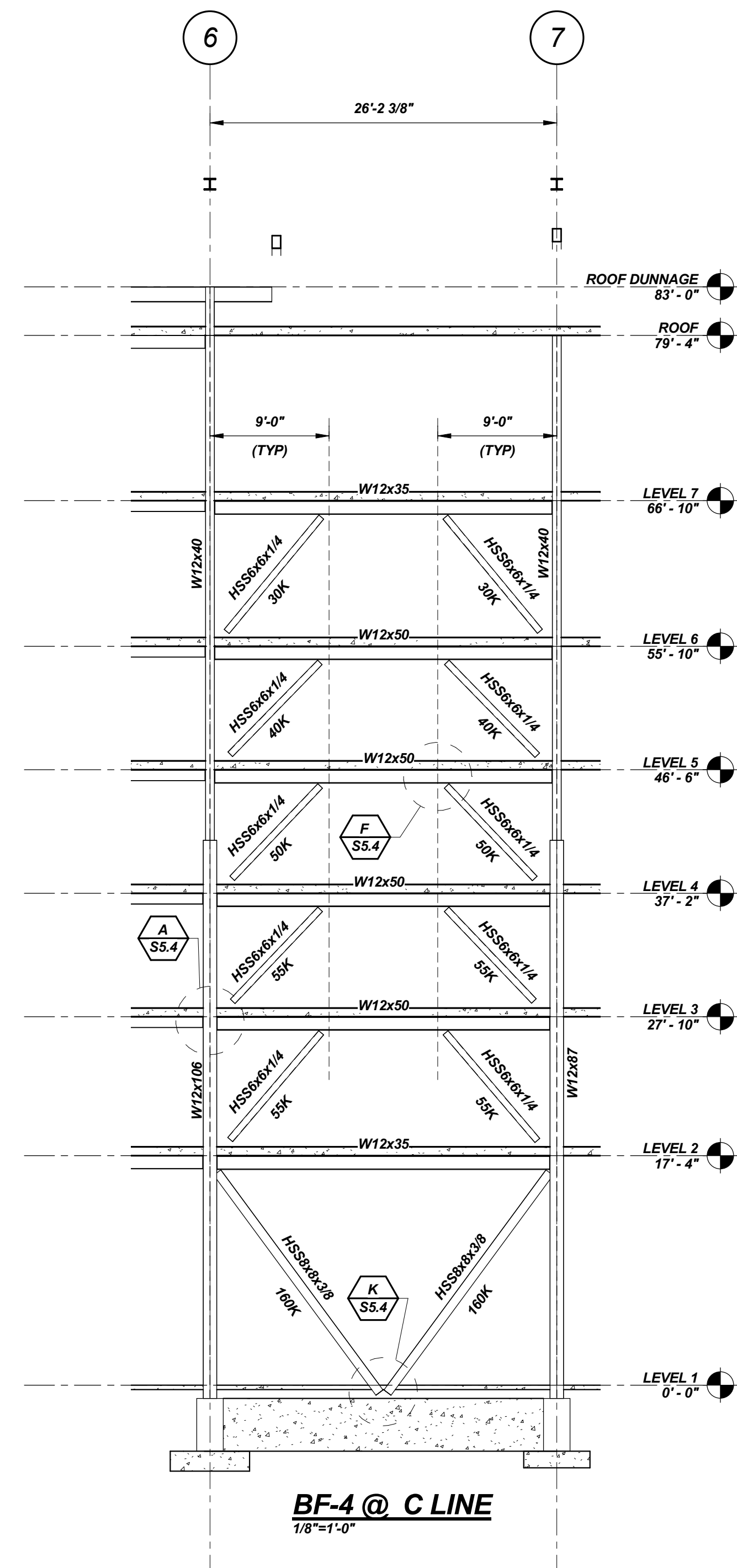
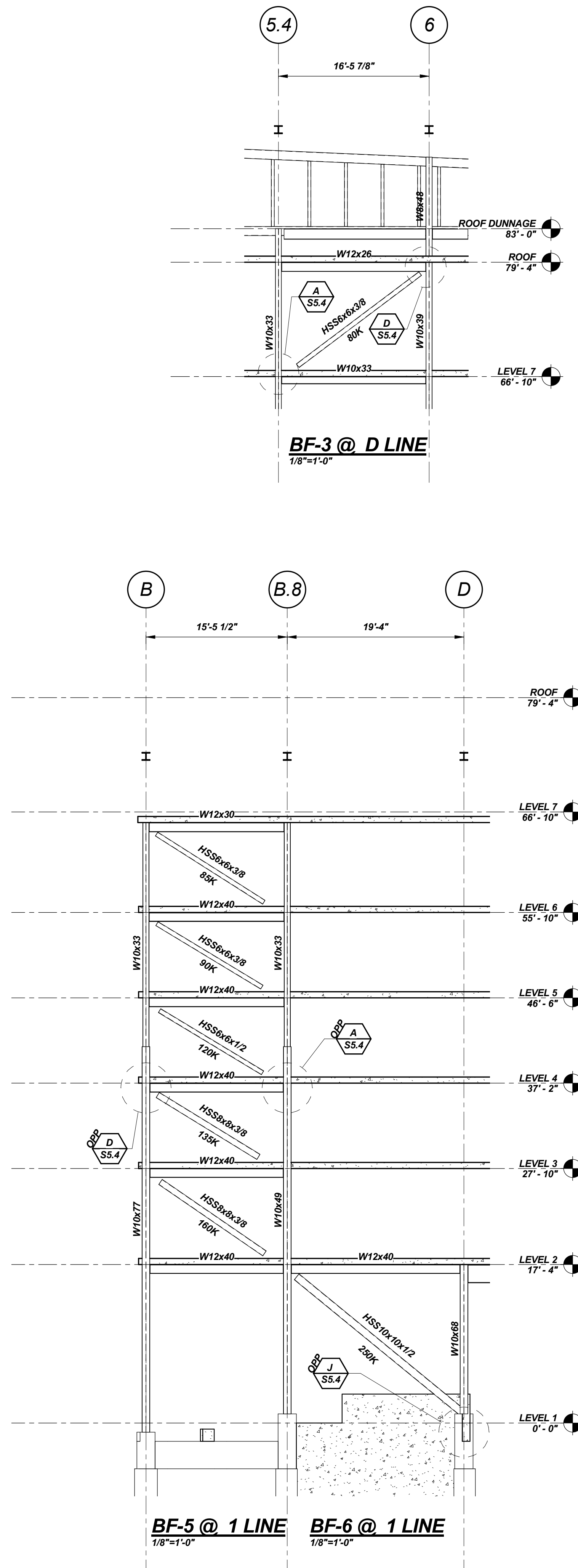
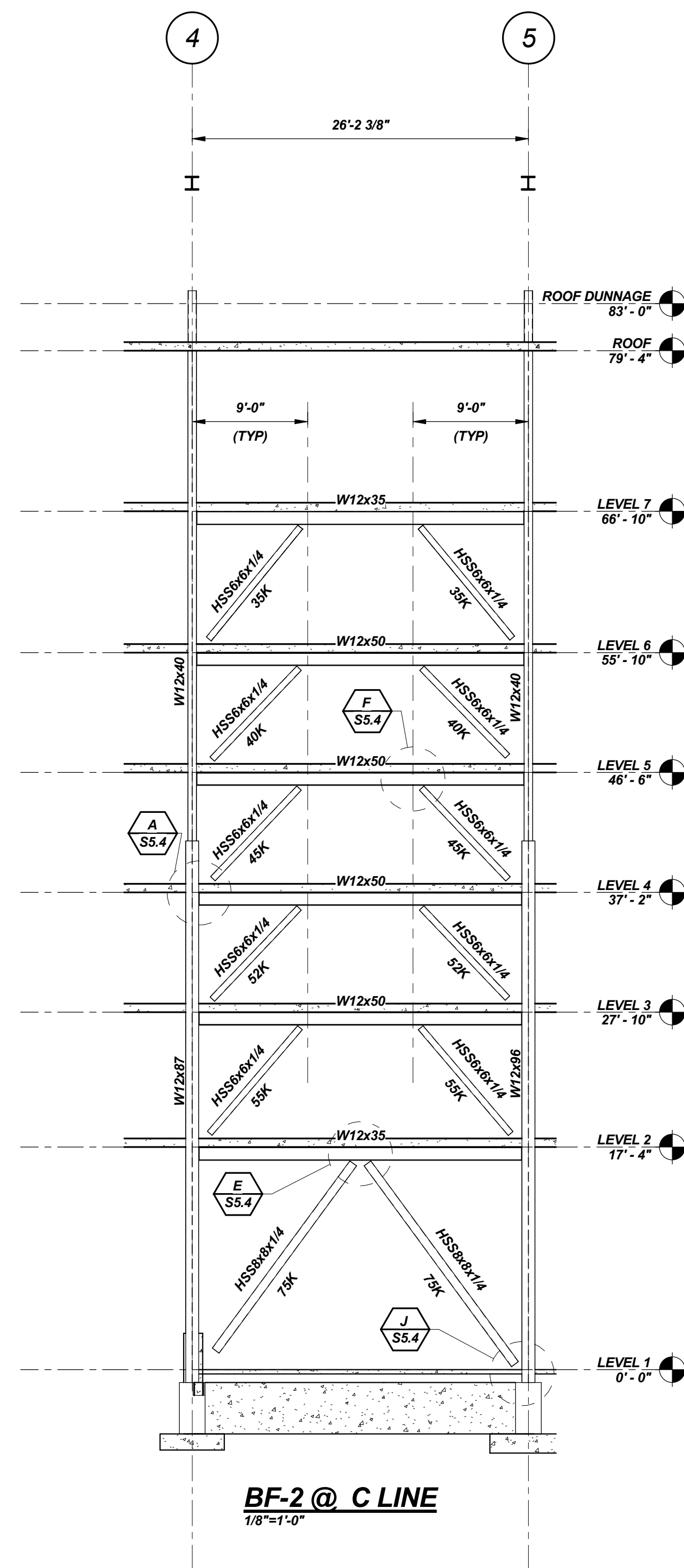
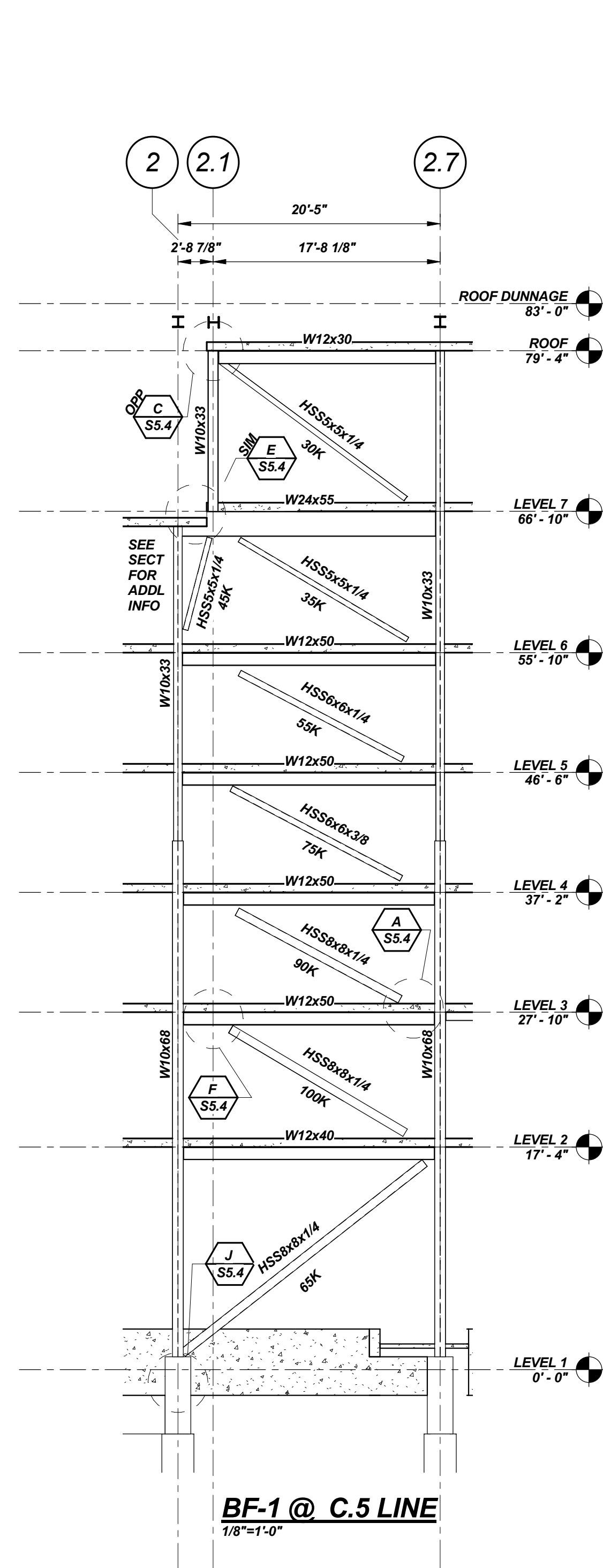
Mark	Date	Description

Project Status
ISSUED FOR CONSTRUCTION
 11/12/12

Drawing Title
ROOF SCREEN FRAMING PLAN

Scale: As indicated

Drawing Number
S1.7



BRACE FRAME ELEVATIONS

1/8"=1'-0"

NOTES:

- LOADS INDICATED ON BRACED FRAME ELEVATIONS ARE UNFACTORED LOADS AND MAY ACT IN TENSION OR COMPRESSION.
- LOADS INDICATED HAVE BEEN GENERATED USING R=3. CONNECTIONS DO NOT REQUIRE ADDITIONAL OVERSTRENGTH FACTORS.
- CONNECTION DESIGN CALCULATION SHALL BE SUBMITTED FOR REVIEW PER SPECIFICATIONS AND SHALL BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF MAINE AND SHALL INCLUDE THE FOLLOWING:
 - GEOMETRY NECESSARY FOR UNIFORM FORCE METHOD CALCULATIONS.
 - ALL APPLICABLE FAILURE MODE CHECKS.
- CONNECTIONS SHALL BE DESIGNED TO NOT INDUCE MOMENT INTO BEAMS AND COLUMNS, BEYOND THAT FORCED BY MEMBER GEOMETRY.
- PROVIDE 1/8" MIN STEEL CLOSURE PLATES TO BRACE ENDS AS REQUIRED FOR FIREPROOFING.

Mark	Date	Description

Project Status

ISSUED FOR
CONSTRUCTION

11/16/12

Drawing Title

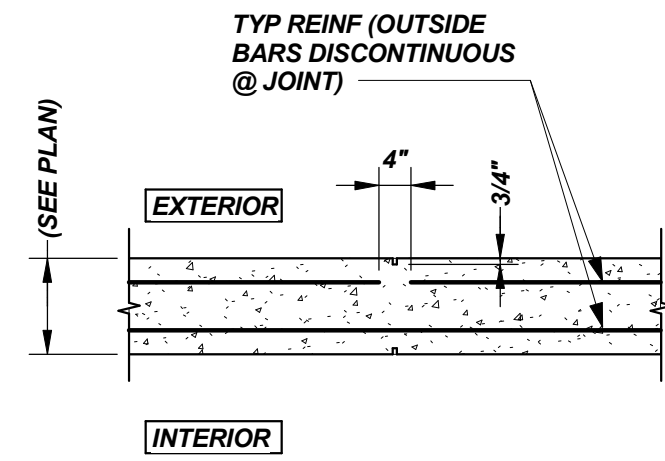
BRACED FRAME
ELEVATIONS

Scale: As indicated

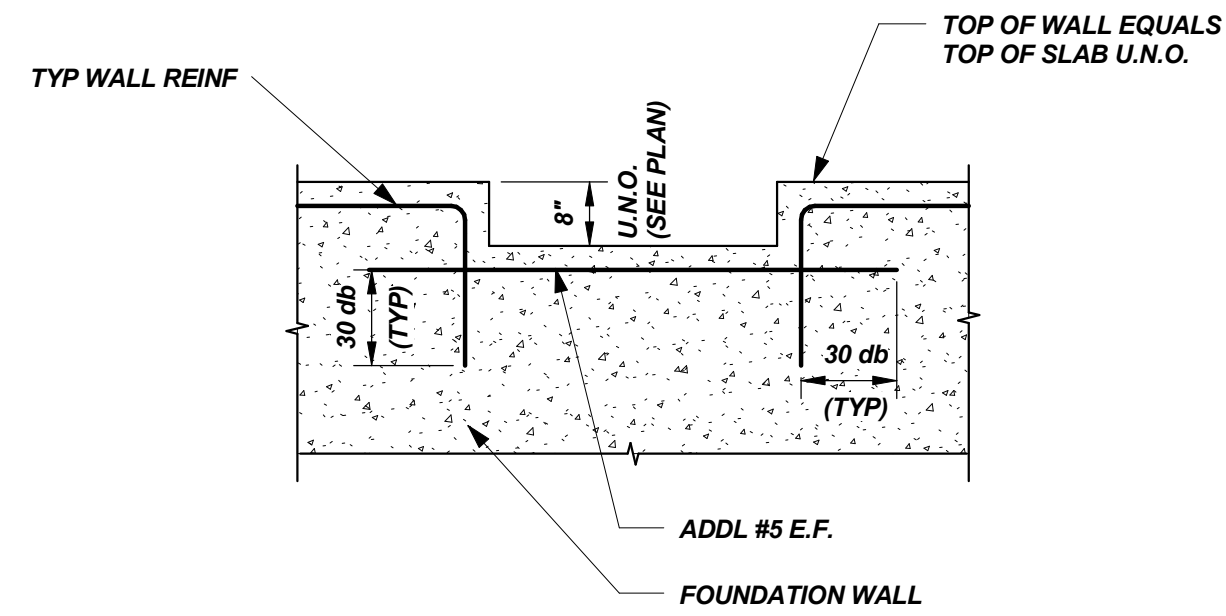
Drawing Number

S2.1

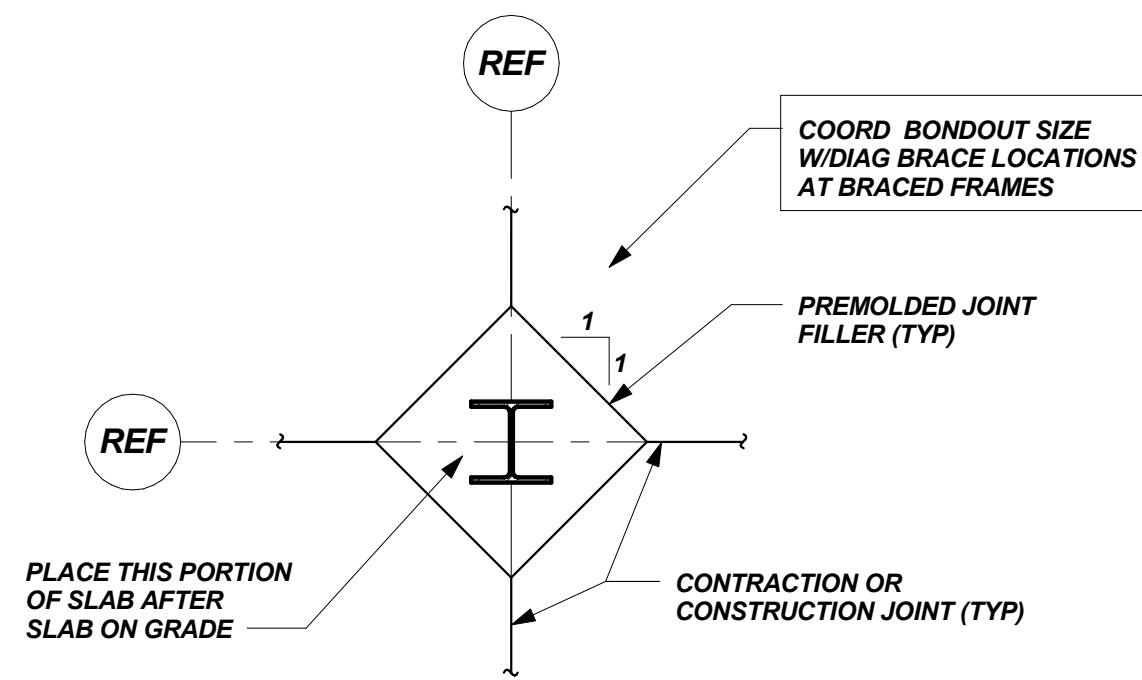
REBAR LAP SPLICE TABLE		
BAR SIZE	LAP LENGTH (5000psi)	LAP LENGTH (3000psi)
#3	24"	30"
#4	32"	38"
#5	38"	46"
#6	44"	54"
#7	60"	72"
#8	70"	84"
#9	78"	94"



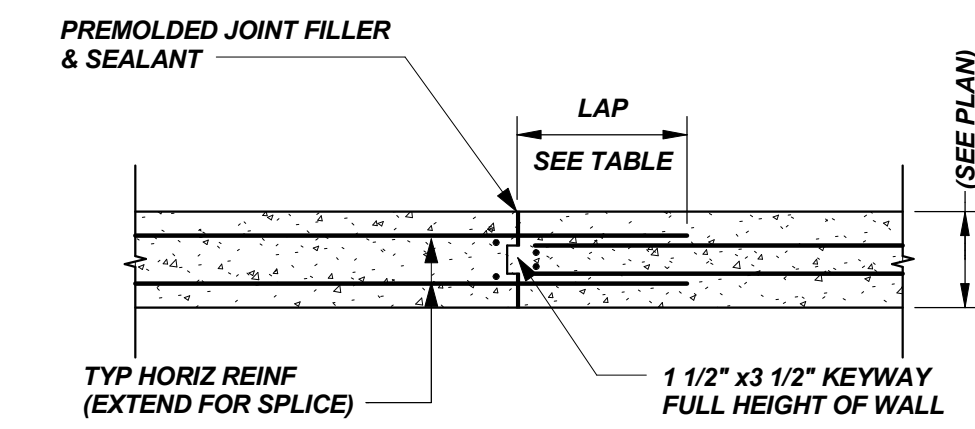
TYP CONTRACTION JOINT IN WALL
N.T.S.



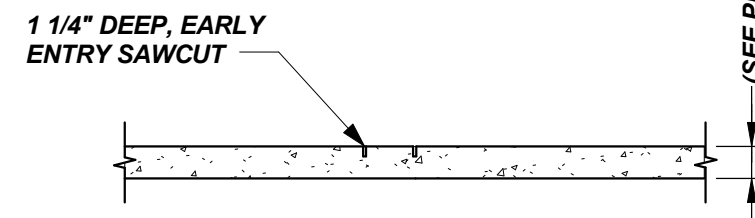
TYP WALL DEPRESSION DETAIL @ DOOR
N.T.S.



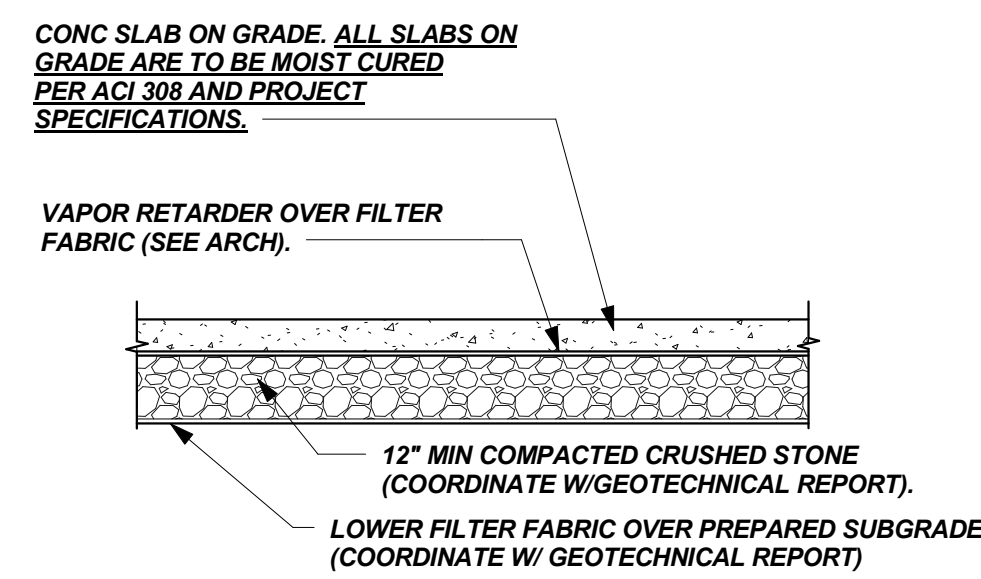
TYP INT COLUMN ISOLATION JOINT DETAIL
N.T.S.



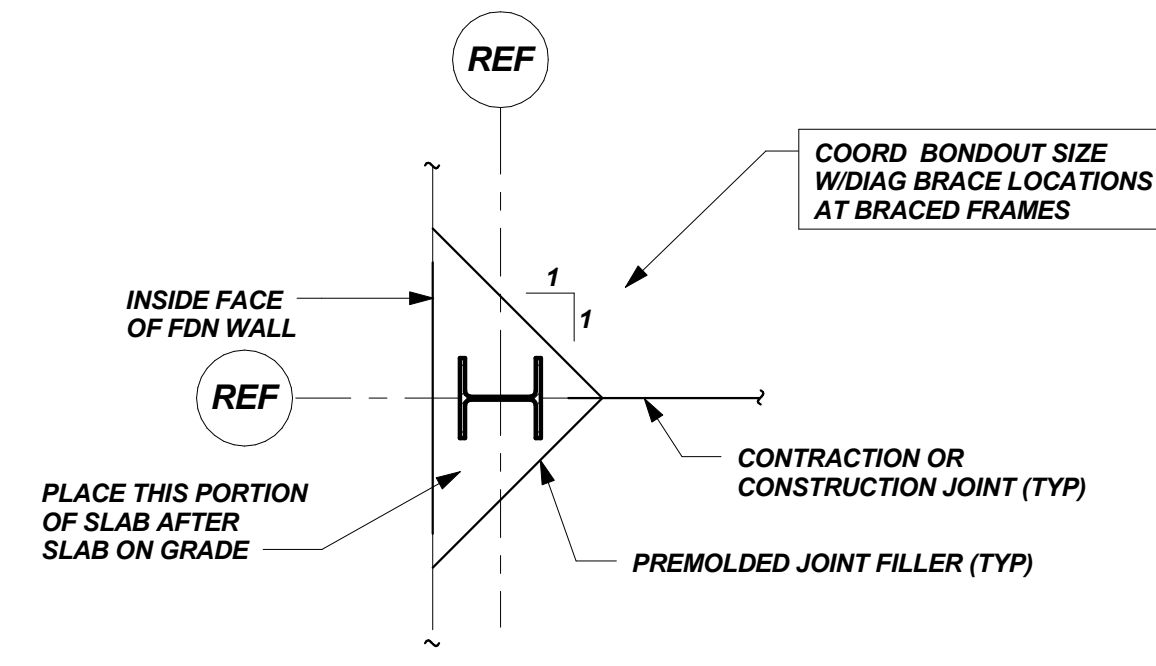
TYP CONSTRUCTION JOINT IN WALL
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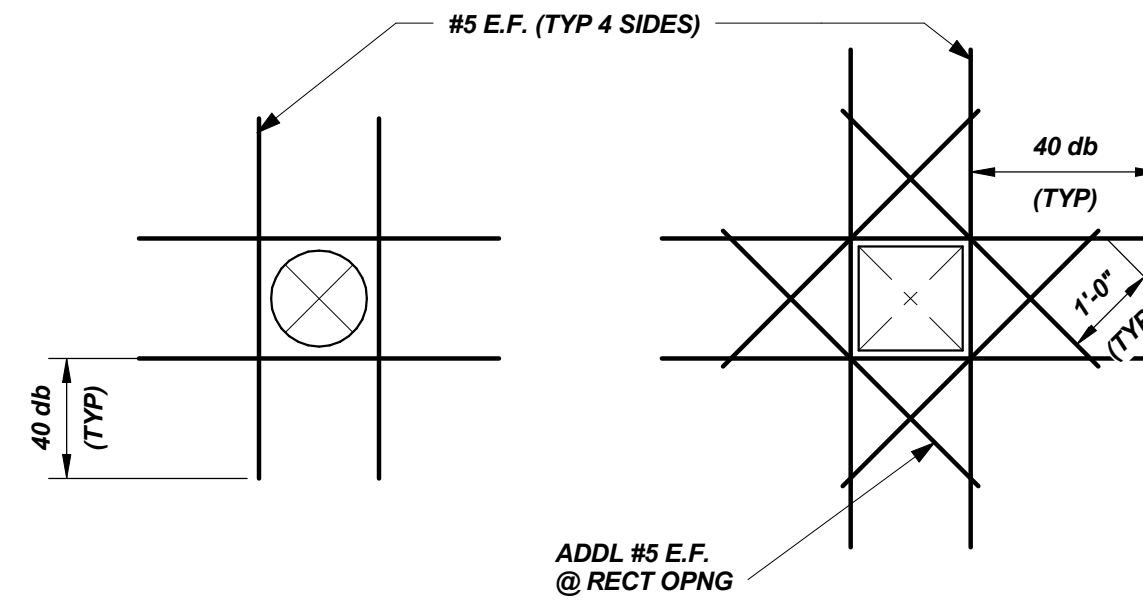
TYP SLAB ON GRADE CONTRACTION JOINT DETAIL
N.T.S.



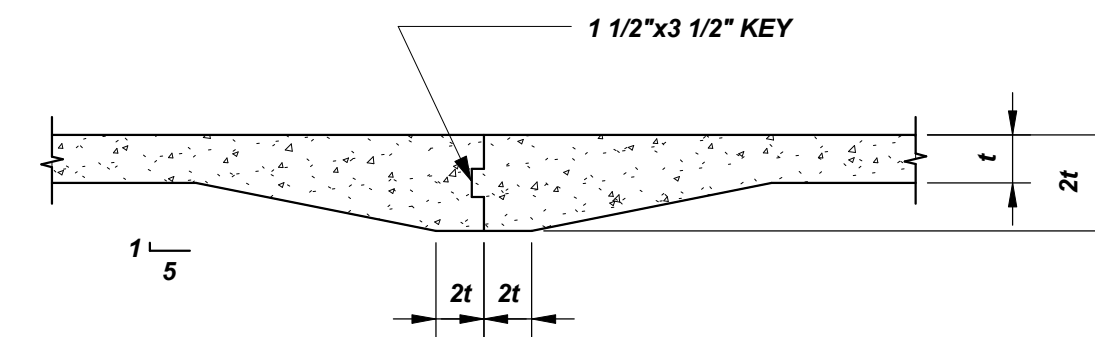
TYP SLAB DETAIL
N.T.S.



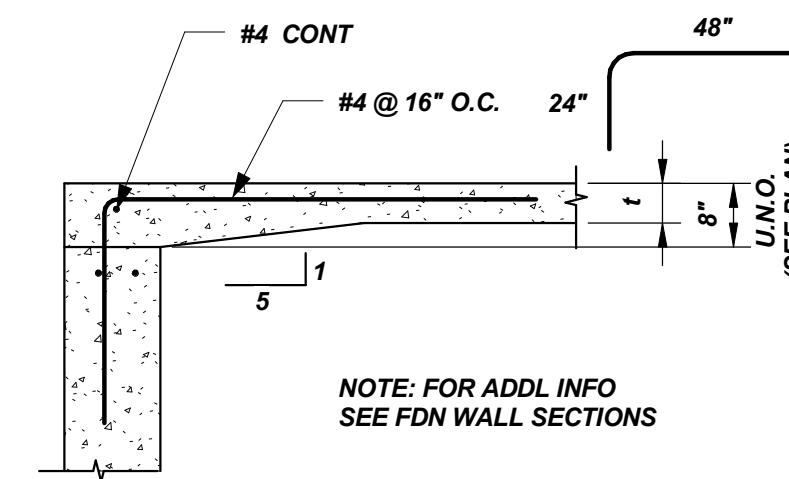
TYP EXT COLUMN ISOLATION JOINT DETAIL
N.T.S.



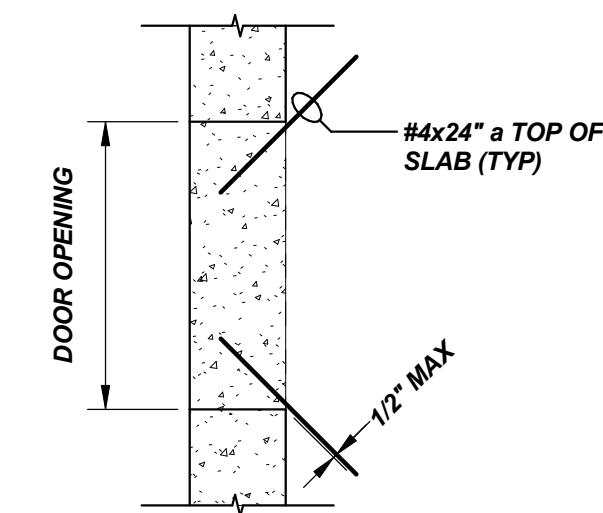
TYP OPENING IN WALL OR SLAB DETAIL
N.T.S.



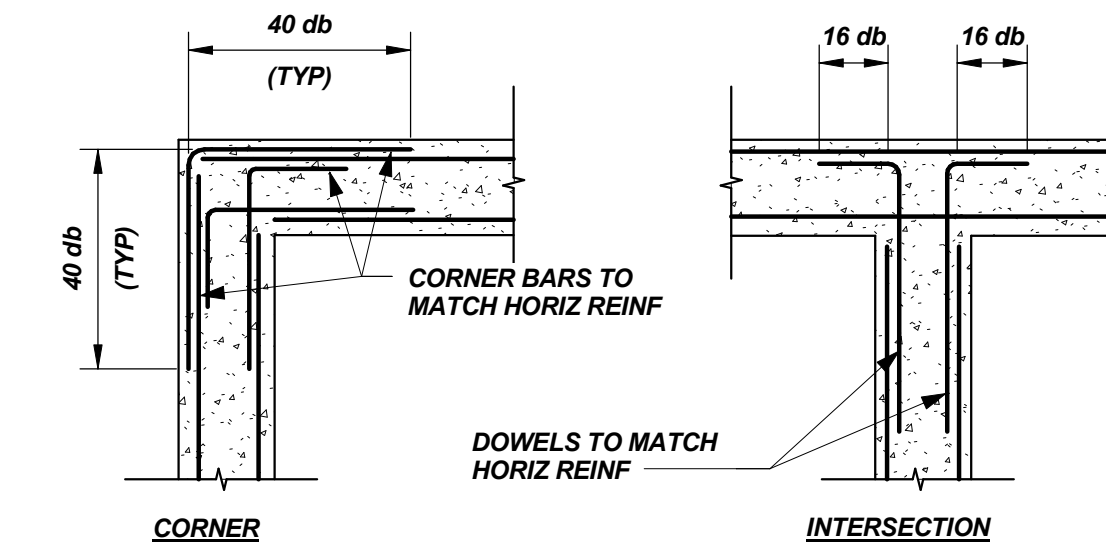
TYP SLAB ON GRADE CONST JOINT DETAIL
N.T.S.



TYPICAL SLAB DETAIL AT DOOR
N.T.S.

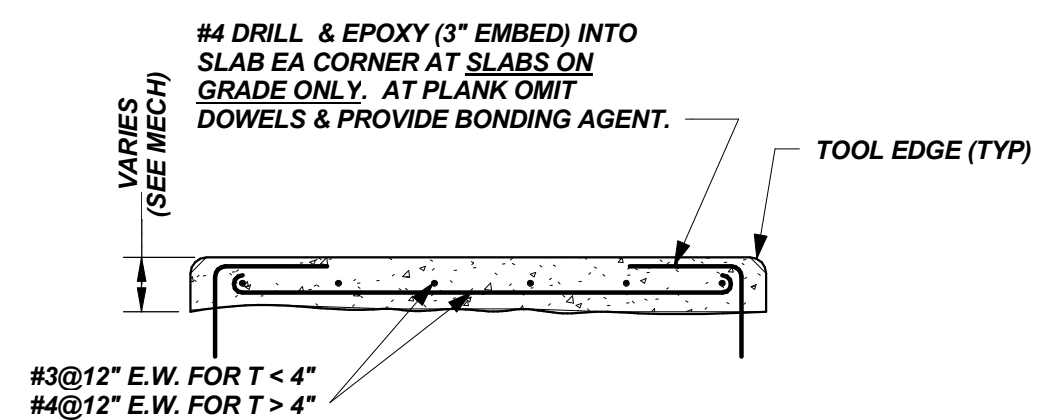


TYP SLAB CORNER DETAIL @ DOOR
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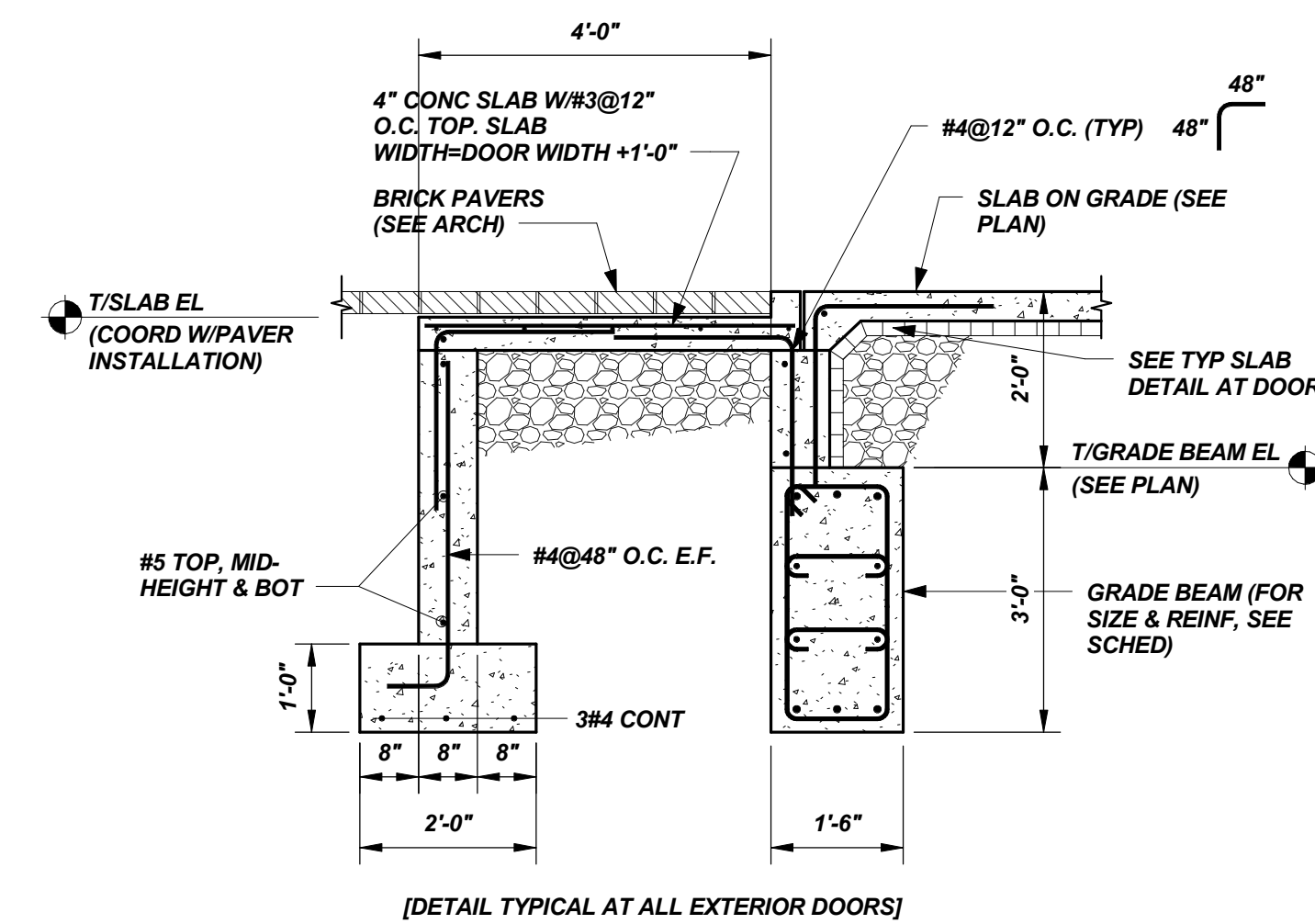


TYP WALL REINF DETAILS
N.T.S.

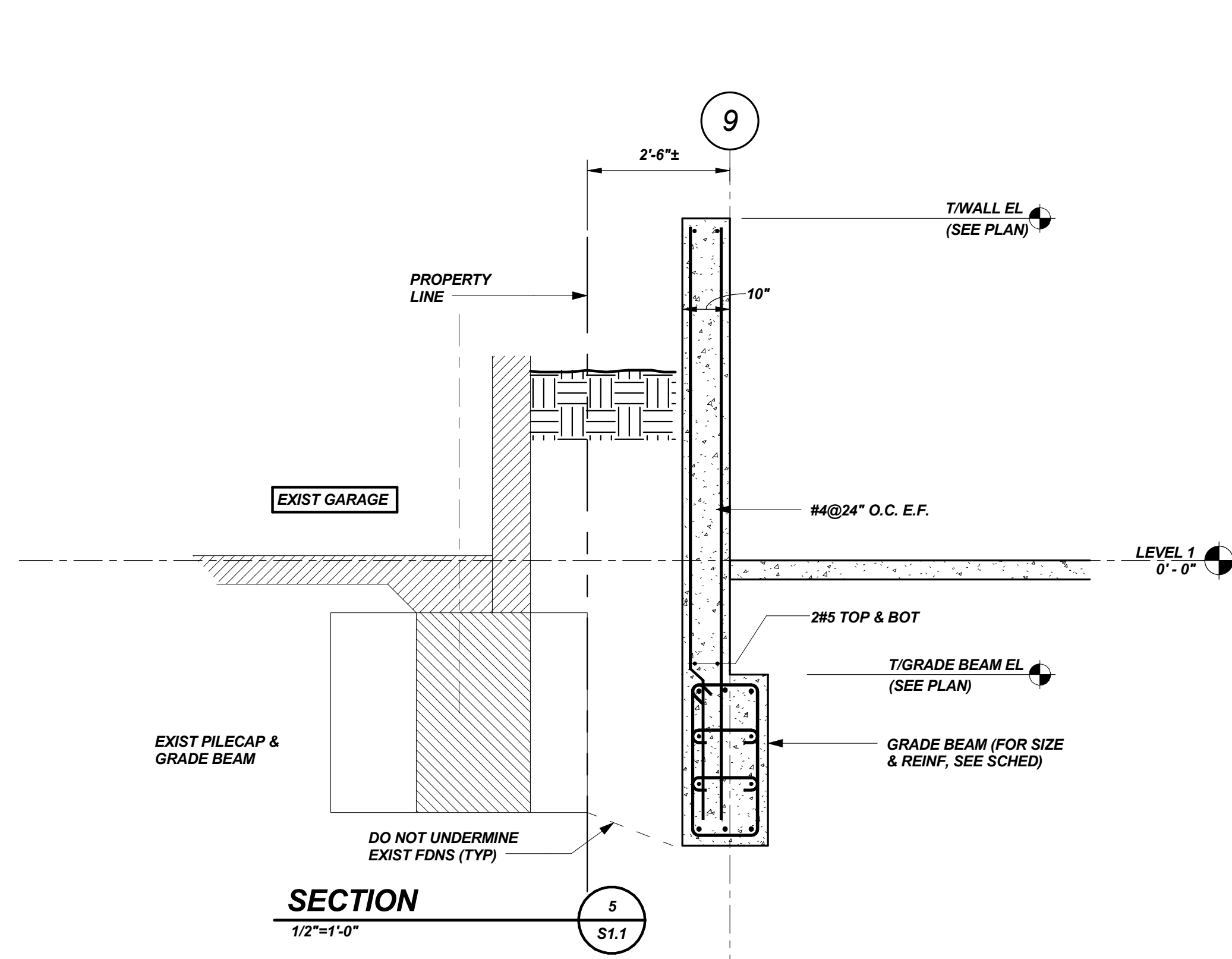
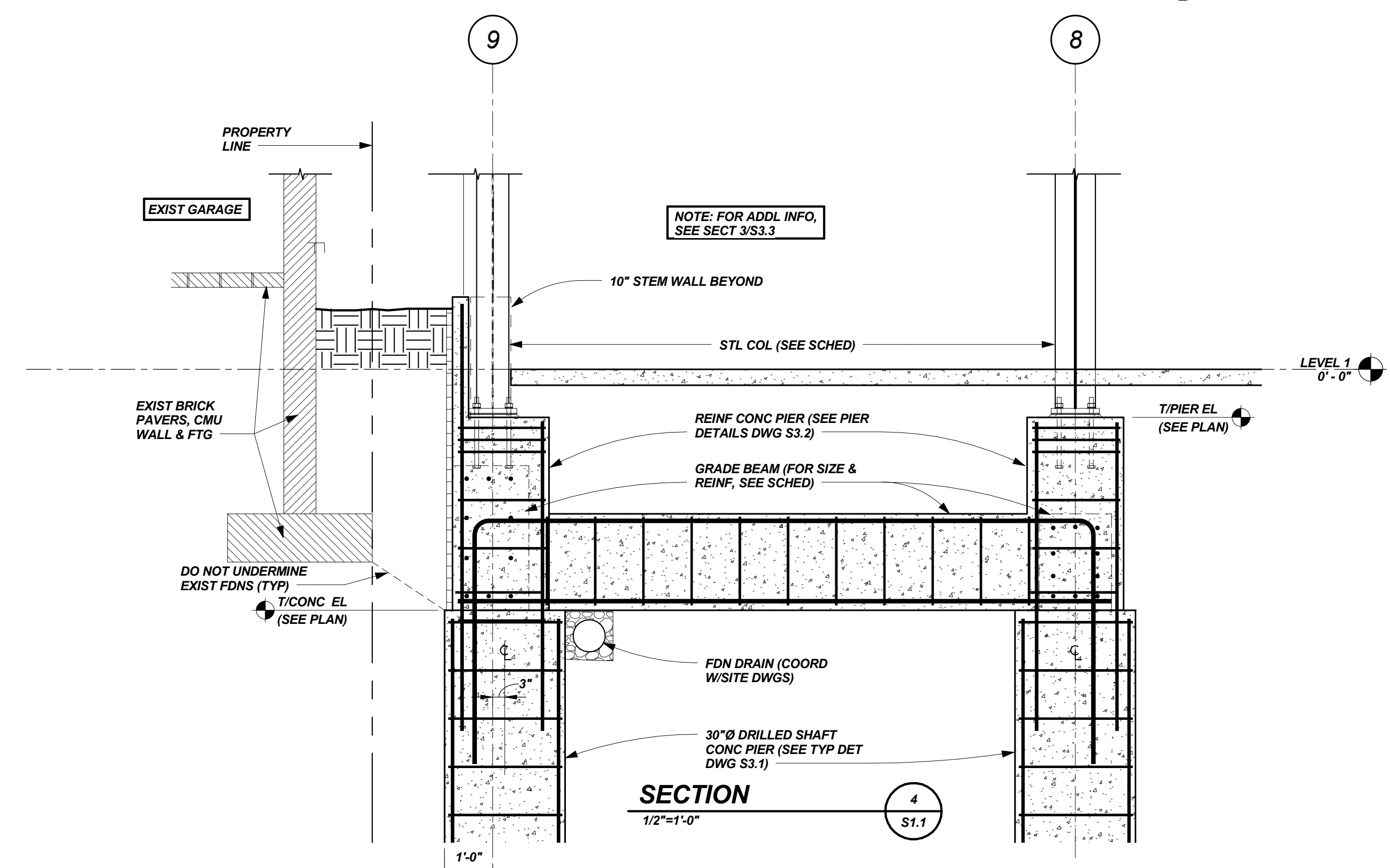
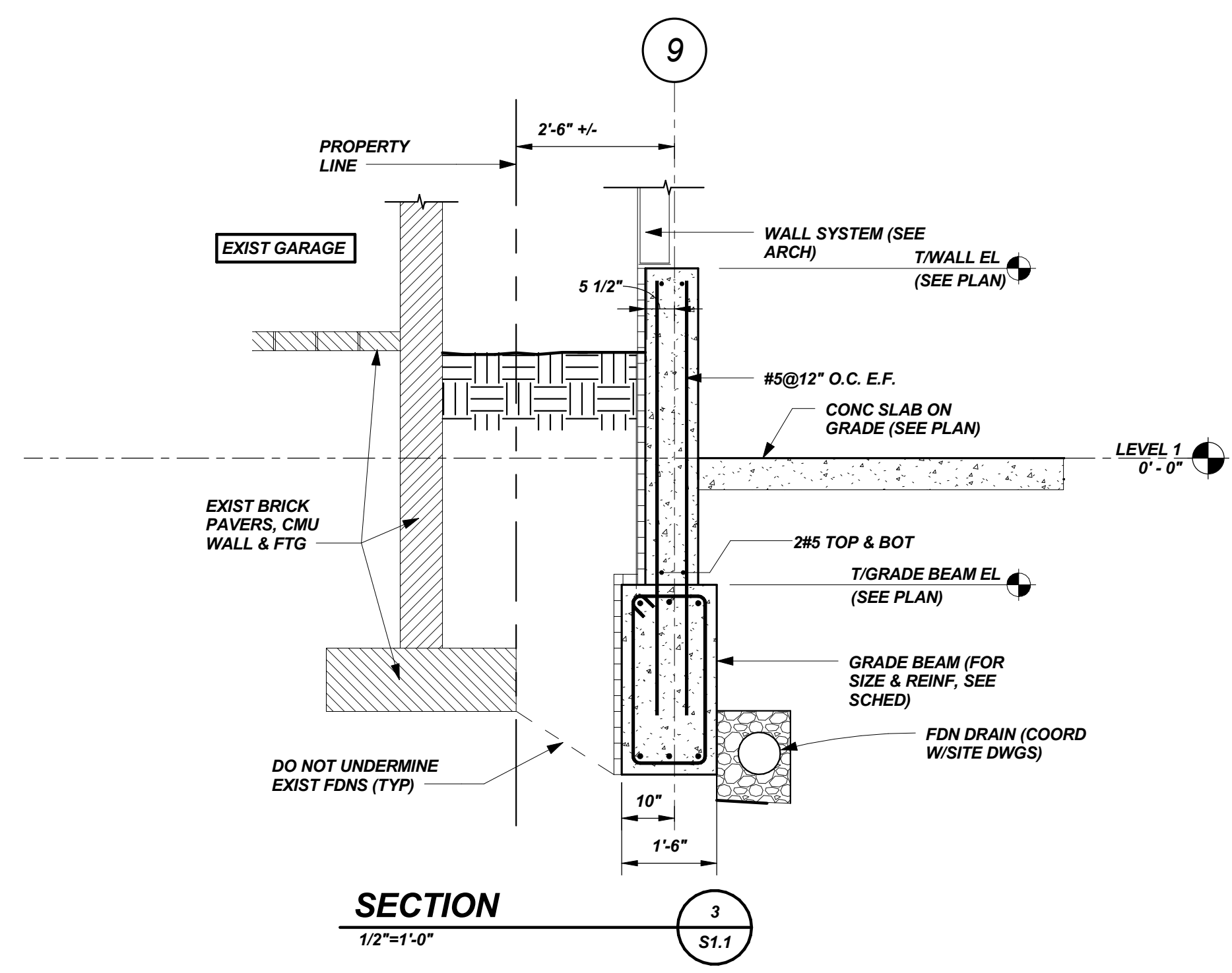
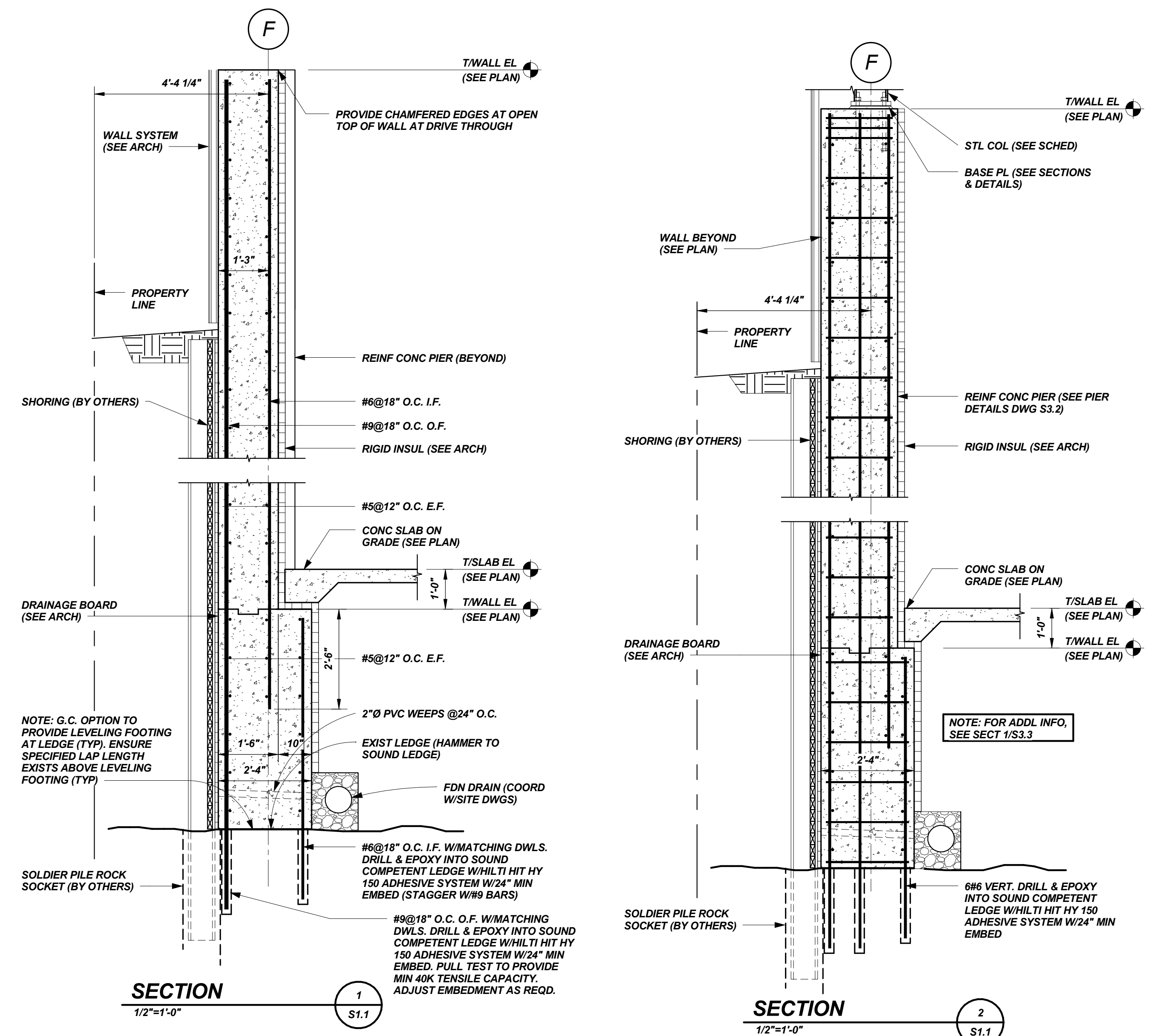
TYP SLAB ON GRADE DEPRESSION DETAIL
N.T.S.



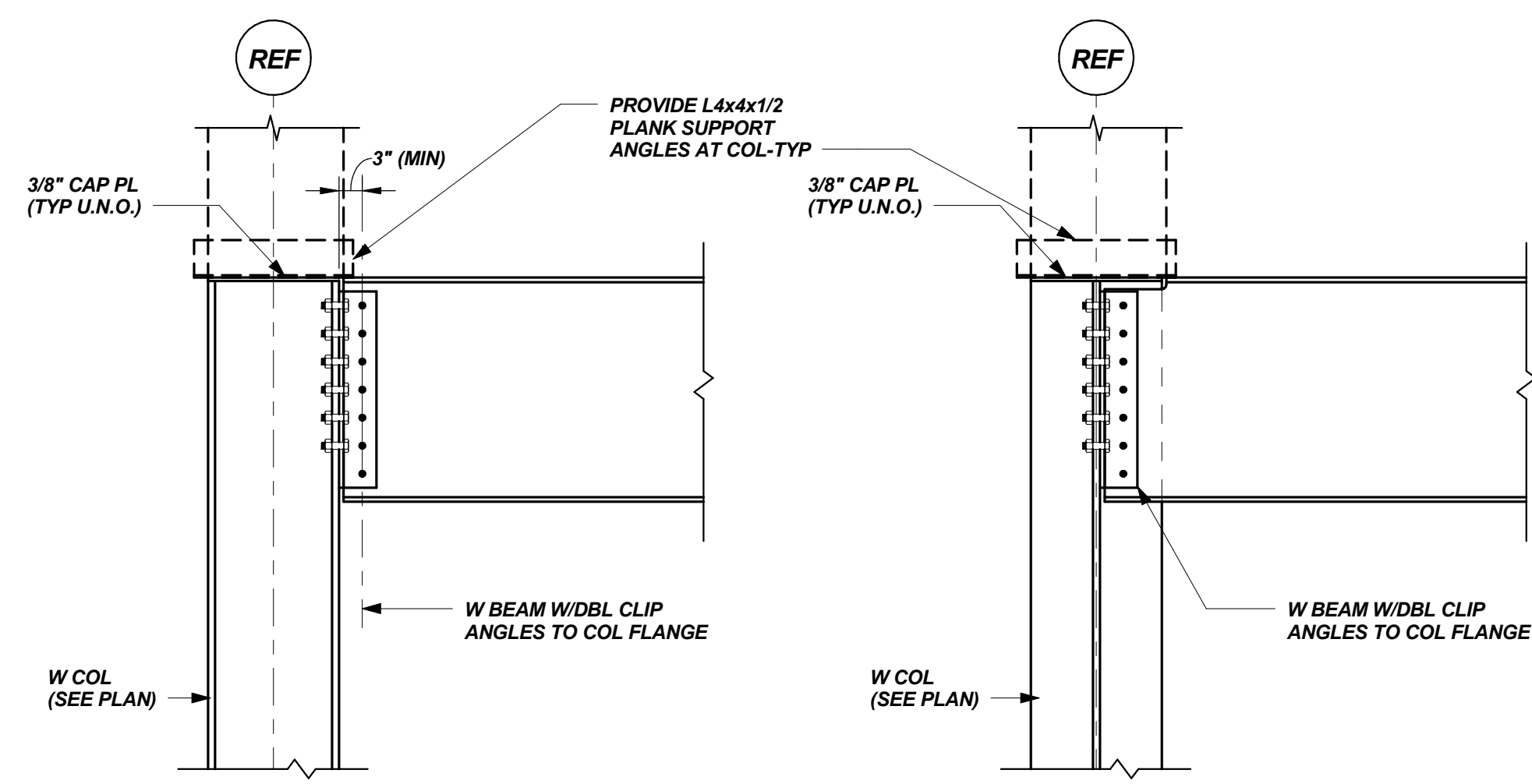
TYP EQUIPMENT HOUSEKEEPING PAD DETAIL
N.T.S.



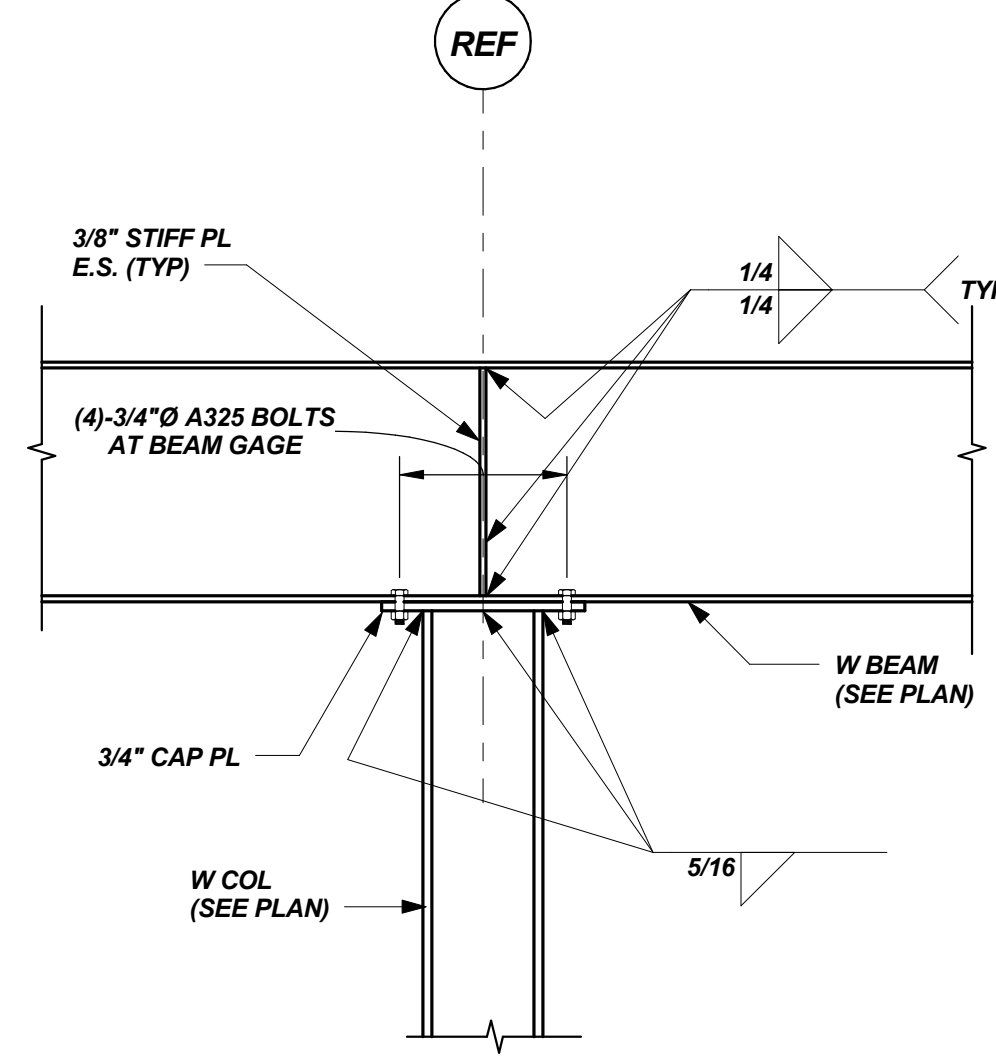
TYP EXTERIOR ENTRY SLAB DETAIL
1/2"=1'-0"



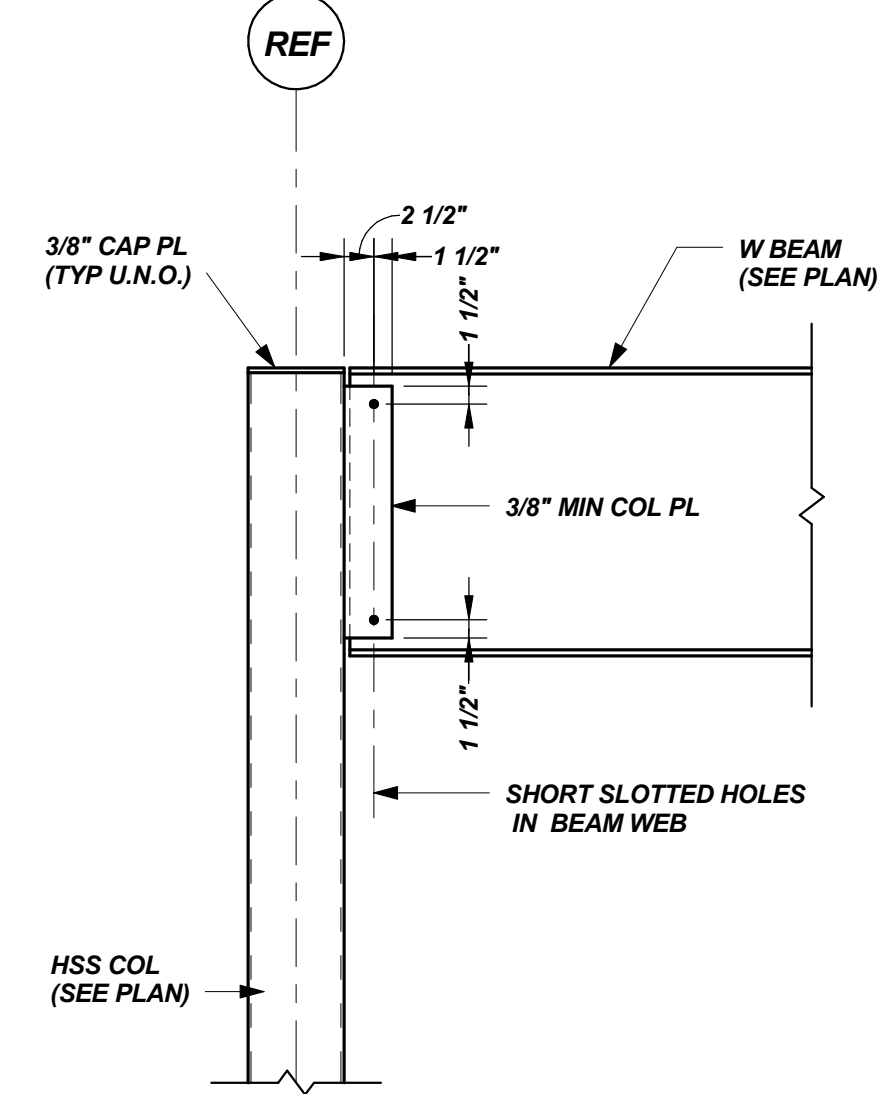
Mark	Date	Description
Project Status		
ISSUED FOR CONSTRUCTION		
11/16/12		
Drawing Title		
FOUNDATION SECTIONS AND DETAILS		
Scale: As indicated		
Drawing Number		



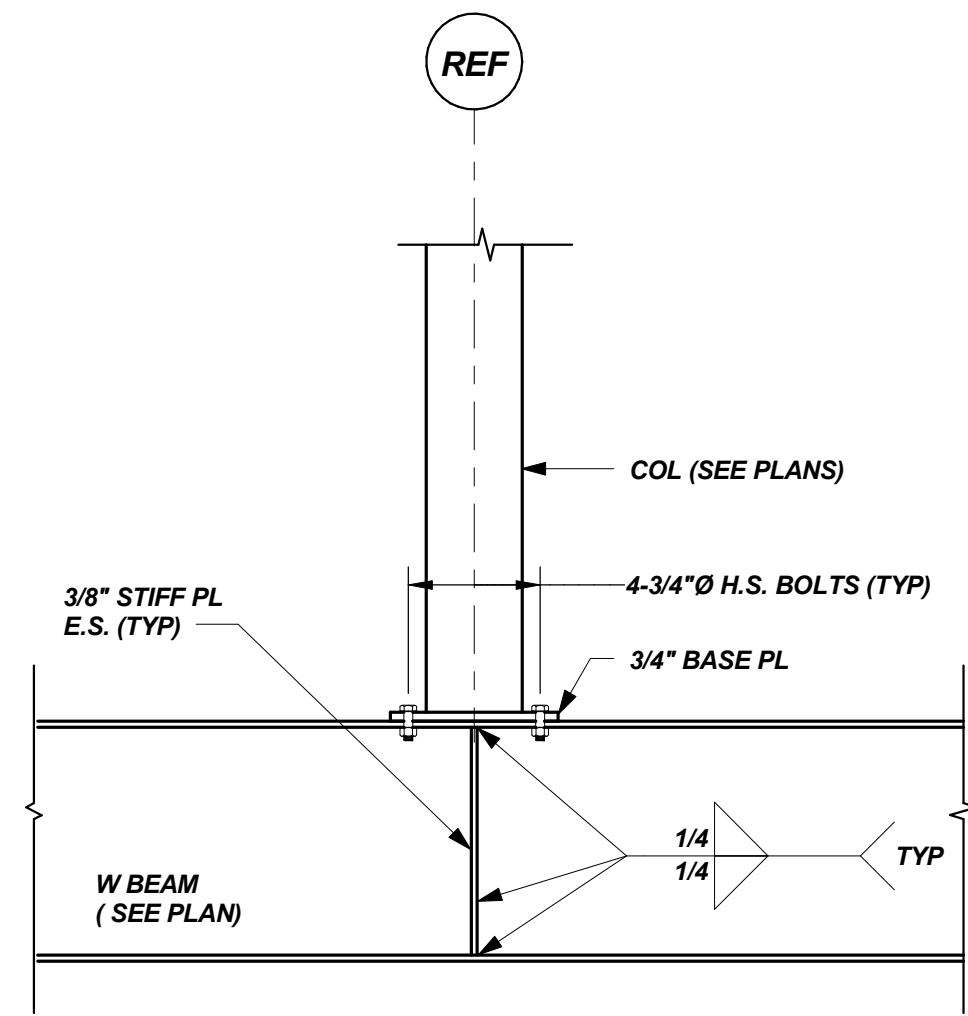
TYP BEAM TO W COL CONN DETAILS
N.T.S.



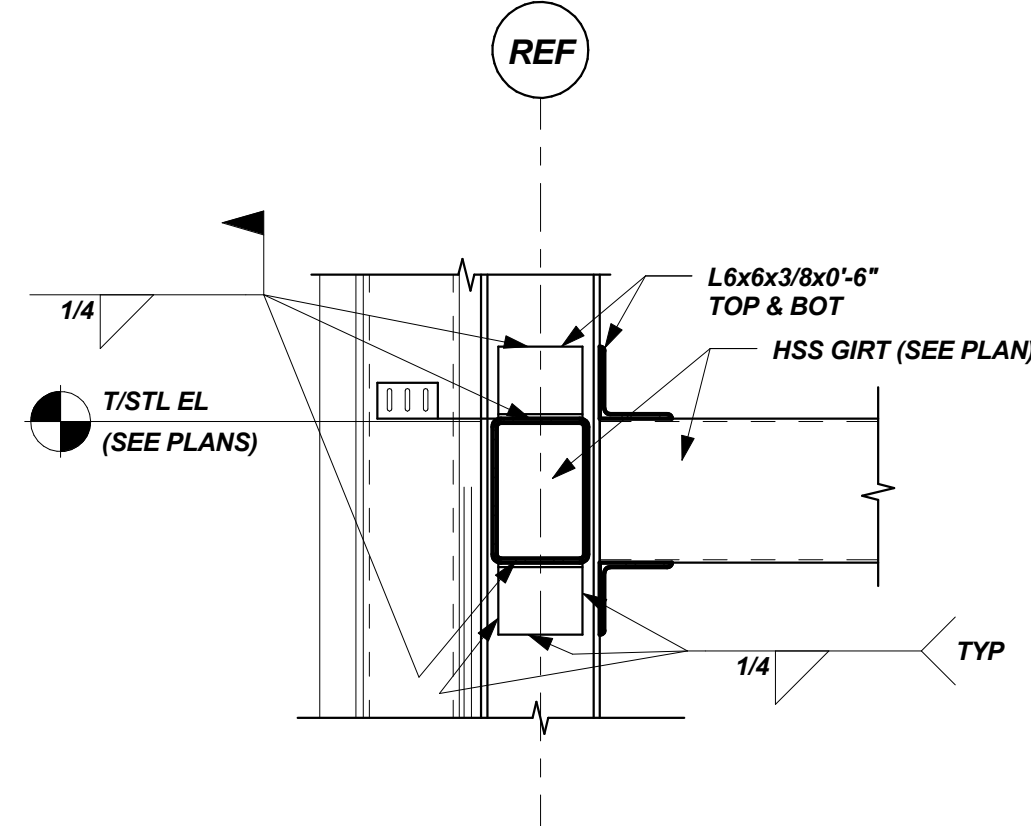
TYP BEAM OVER COL CONN DETAIL
N.T.S.



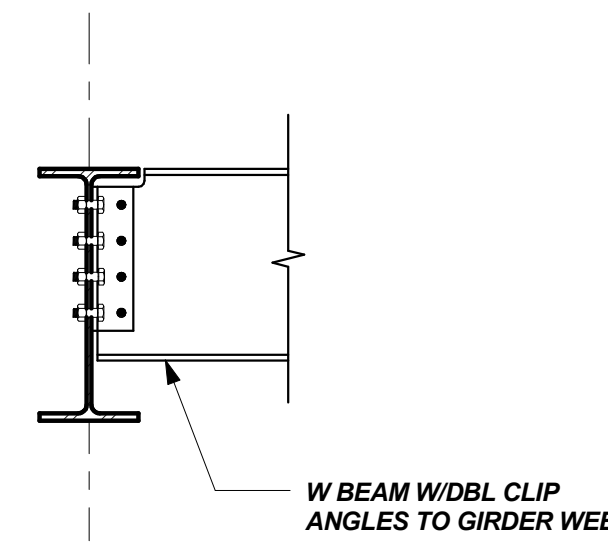
TYP BEAM TO HSS COL CONN U.N.O.
N.T.S.



TYP COL TRANSFER DETAIL
N.T.S.



TYP HSS GIRT CONN
N.T.S.

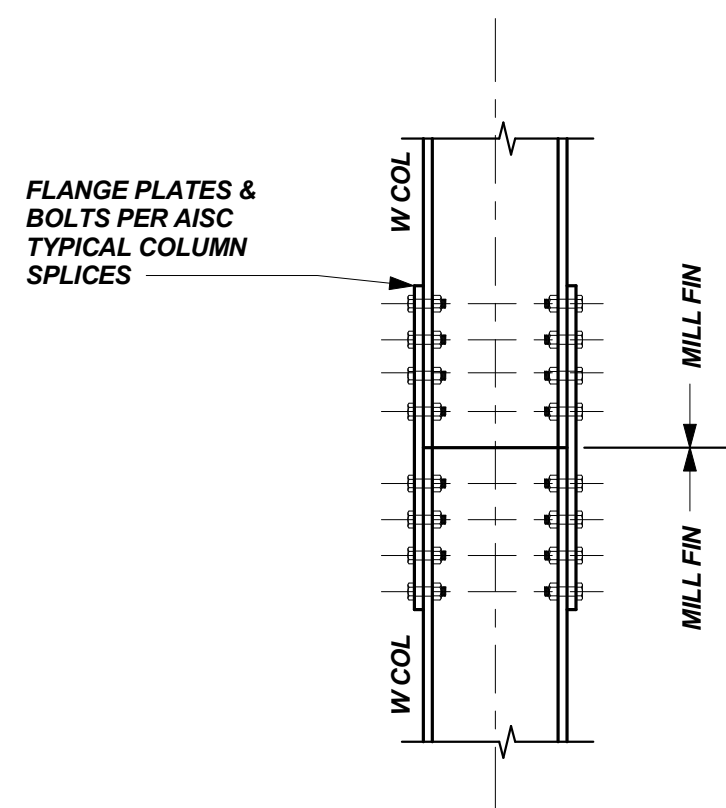


TYP BEAM TO BEAM CONN DETAIL
N.T.S.

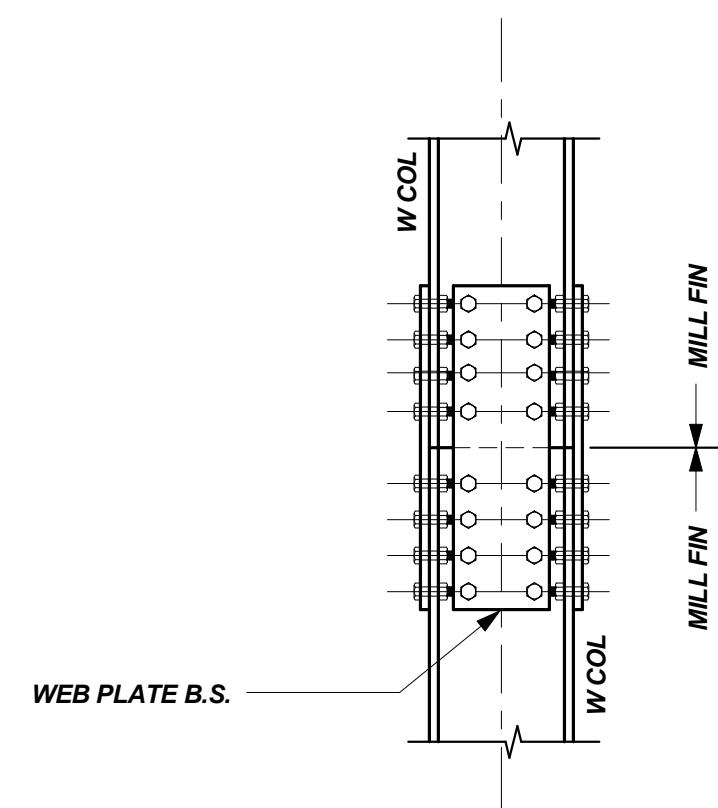
SIMPLE SHEAR BEAM CONNECTION SCHEDULE			
BEAM SIZE	DESIGN REACTION	MIN No. BOLTS - ONE SIDED CONNECTION	MIN No. BOLTS - TWO SIDED CONNECTION
DB8	35K	2	2
W8/W10	25K	2	2
W12/W14	40K (TYP) 50K AT W12x50 70K AT W14x48	2	2
W16	40K (TYP) 60K AT W16x45	4	3
W18	60K	4	3
W24	110K	5	4
MODIFIED W24 AT SEVENTH FLR	36K	2	2
W30	230	6	5

SIMPLE SHEAR CONNECTIONS NOTES:

1. SIMPLE SHEAR CONNECTIONS SHALL BE SELECTED FROM THE AISC "MANUAL OF STEEL CONSTRUCTION-ALLOWABLE STRESS DESIGN, LATEST EDITION" USING THE ABOVE REFERENCED REACTIONS AND CRITERIA. REACTIONS INDICATED ARE UNFACTORED (SERVICE LEVEL LOADS). MORE BOLTS THAN REFERENCED IN THE "MINIMUM" SECTIONS ABOVE MAY BE REQUIRED FOR LOAD REQUIREMENTS.
2. CONNECTIONS ARE SUBJECT TO REVIEW ON THE STEEL SHOP DRAWINGS.
3. ALL BOLTS SHALL BE A325 OR A490 FOR SIMPLE SHEAR CONNECTIONS, MIN 3/4"Ø. MINIMUM WELD SIZE SHALL BE 5/16". AT 3/4"Ø BOLTS, MINIMUM MATERIAL SIZE FOR PLATES OR ANGLES SHALL BE 3/8".
4. ONE SIDED CONNECTIONS INCLUDE SINGLE PLATES AND SINGLE ANGLE CONNECTIONS.
5. TWO SIDED CONNECTIONS INCLUDE DOUBLE ANGLE AND END PLATE CONNECTIONS.



TYP COL SPLICE



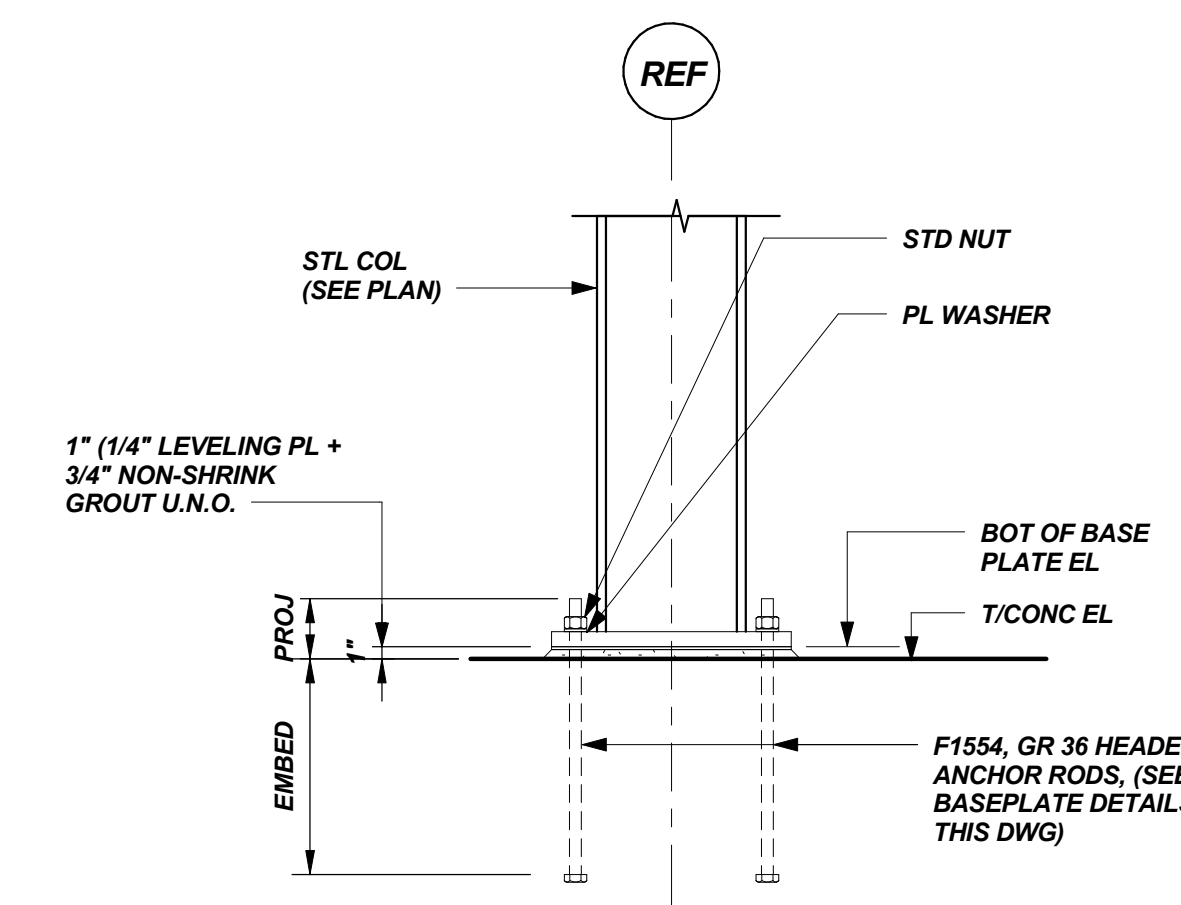
COL SPLICE DETAIL AT BRACED FRAMES

T=200K (MIN DESIGN LOAD)
M=56 K-FT (MIN DESIGN LOAD)

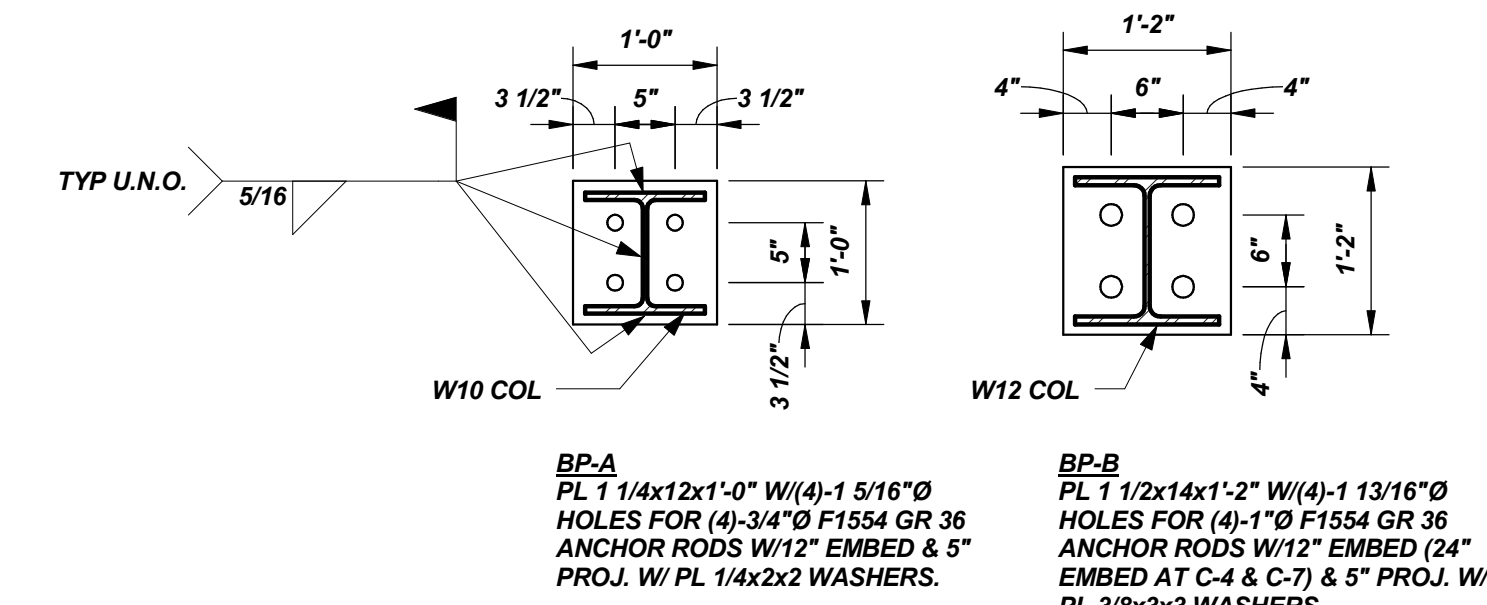
TYP COL SPLICE DETAILS
N.T.S.

NOTES:

1. COLUMN SPLICE PLATES/BOLTS ARE TO BE SIZED BY THE CONNECTION DESIGN ENGINEER. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. WEB CONNECTION IS REQUIRED. DO NOT OMIT IN CONNECTION DESIGN.
3. MILL COLUMN ENDS FOR UNIFORM BEARING.
4. COLUMNS INDICATED WITH (*) ON COLUMN SCHEDULE SHALL BE DESIGNED FOR UNFACTORED LOADS AS NOTED IN "COL SPLICE DETAIL AT BRACED FRAMES". SEE DWG S4.1 & S4.2 FOR ADDL INFO.

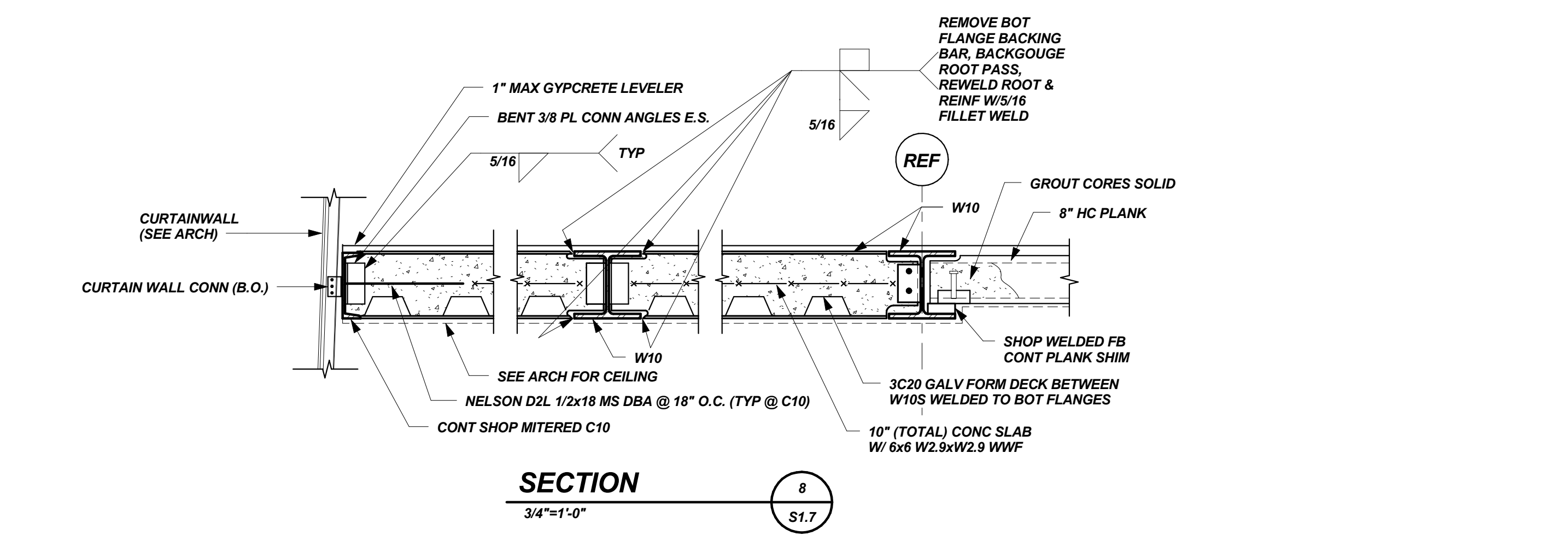
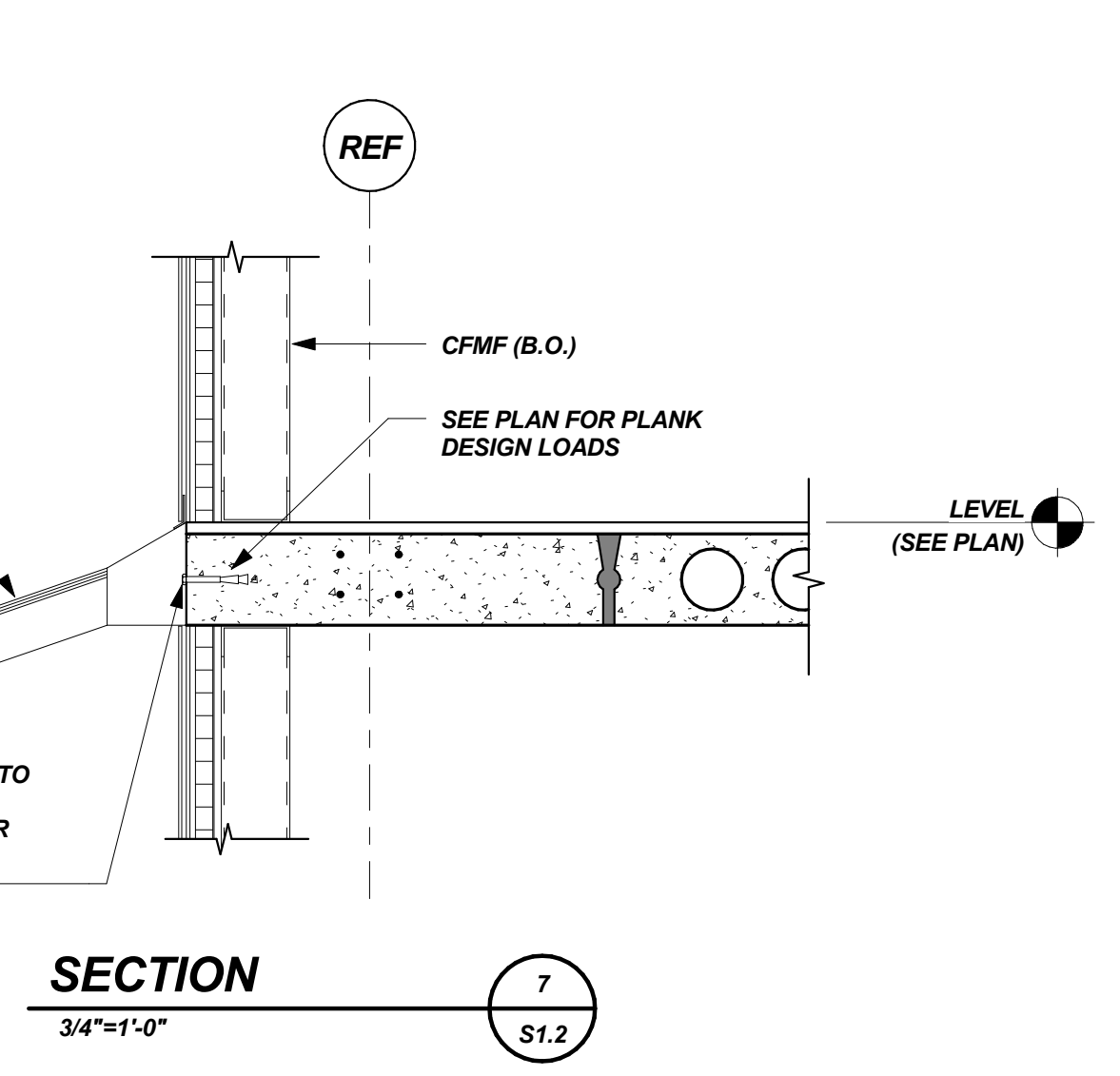
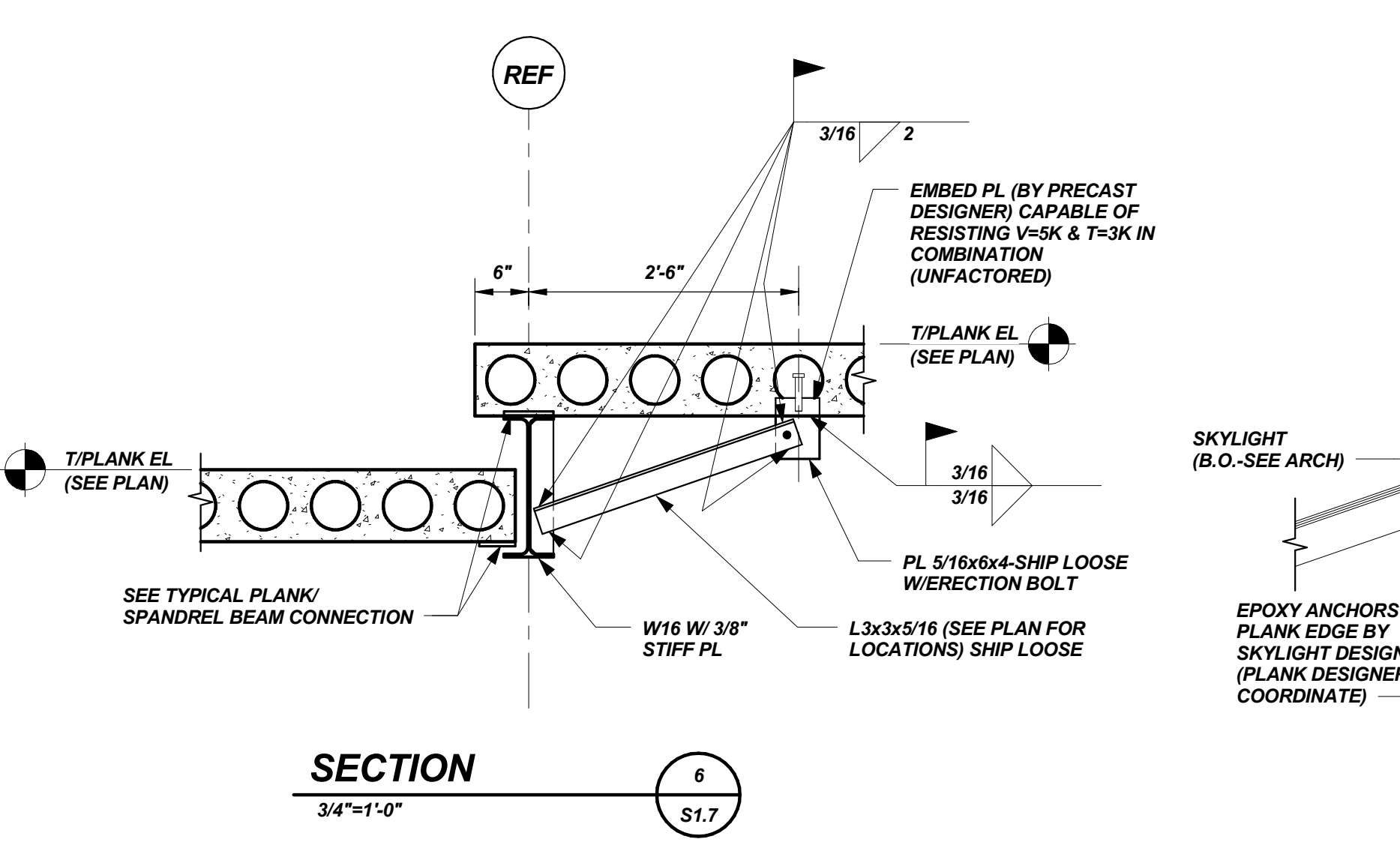
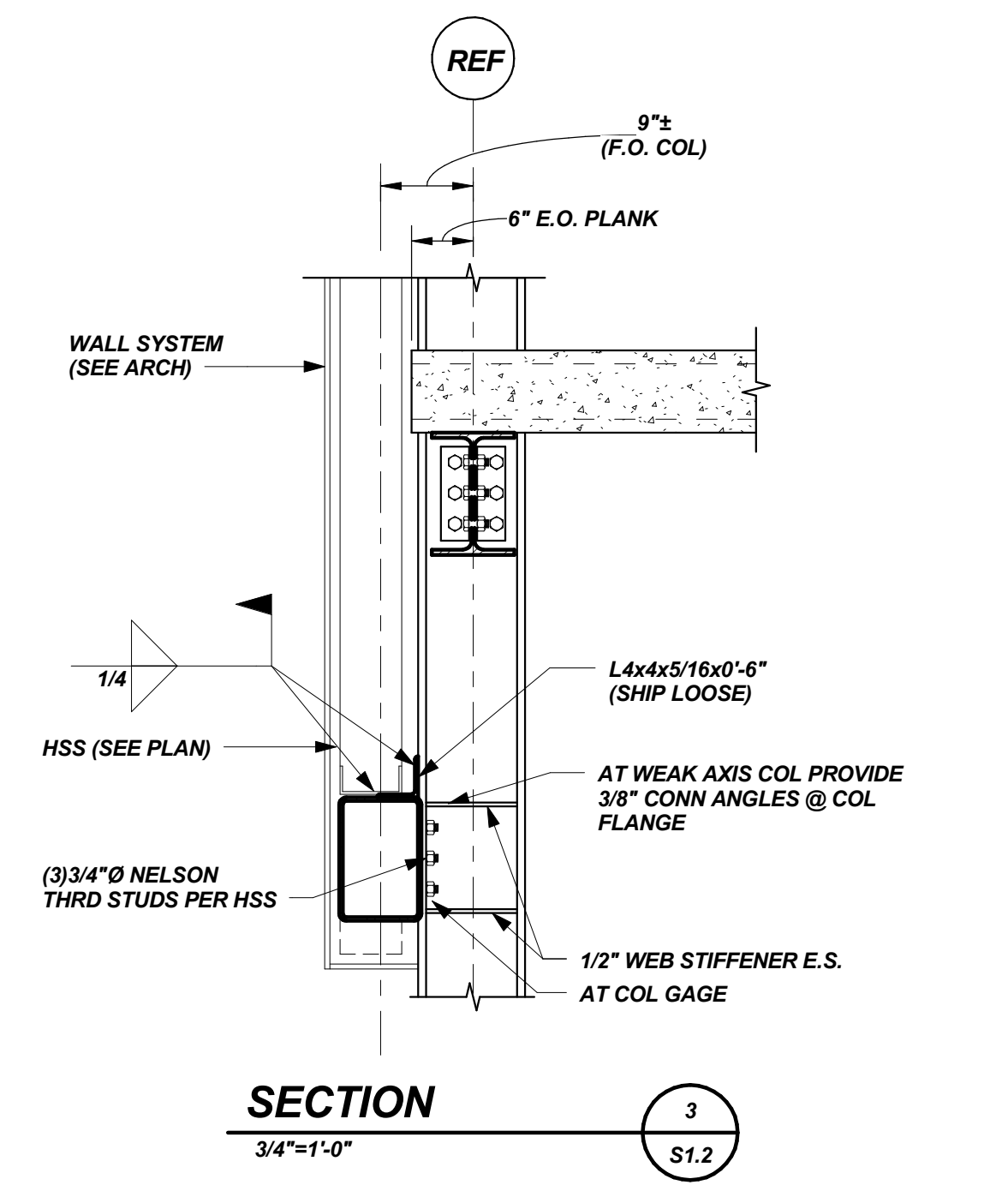
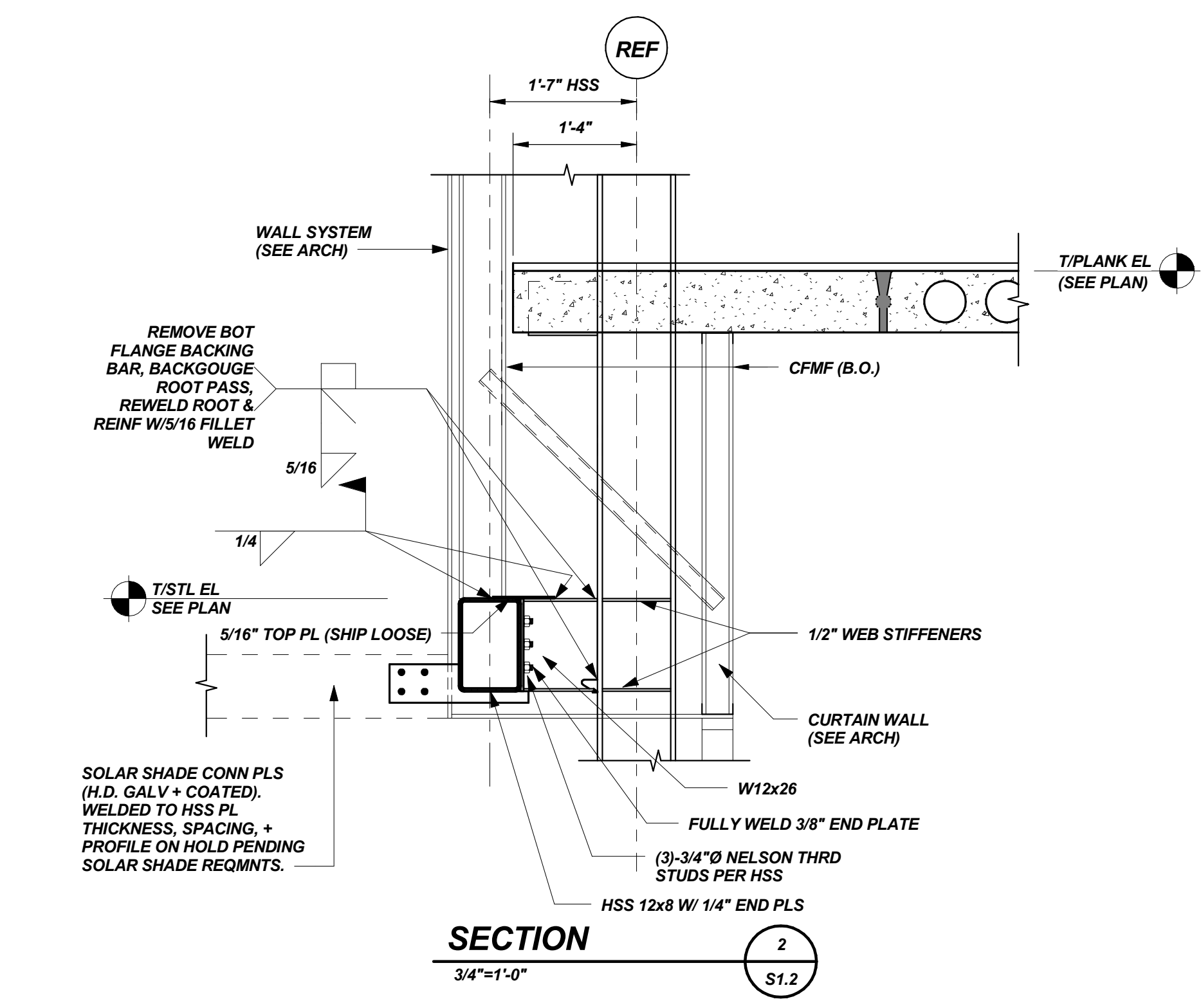
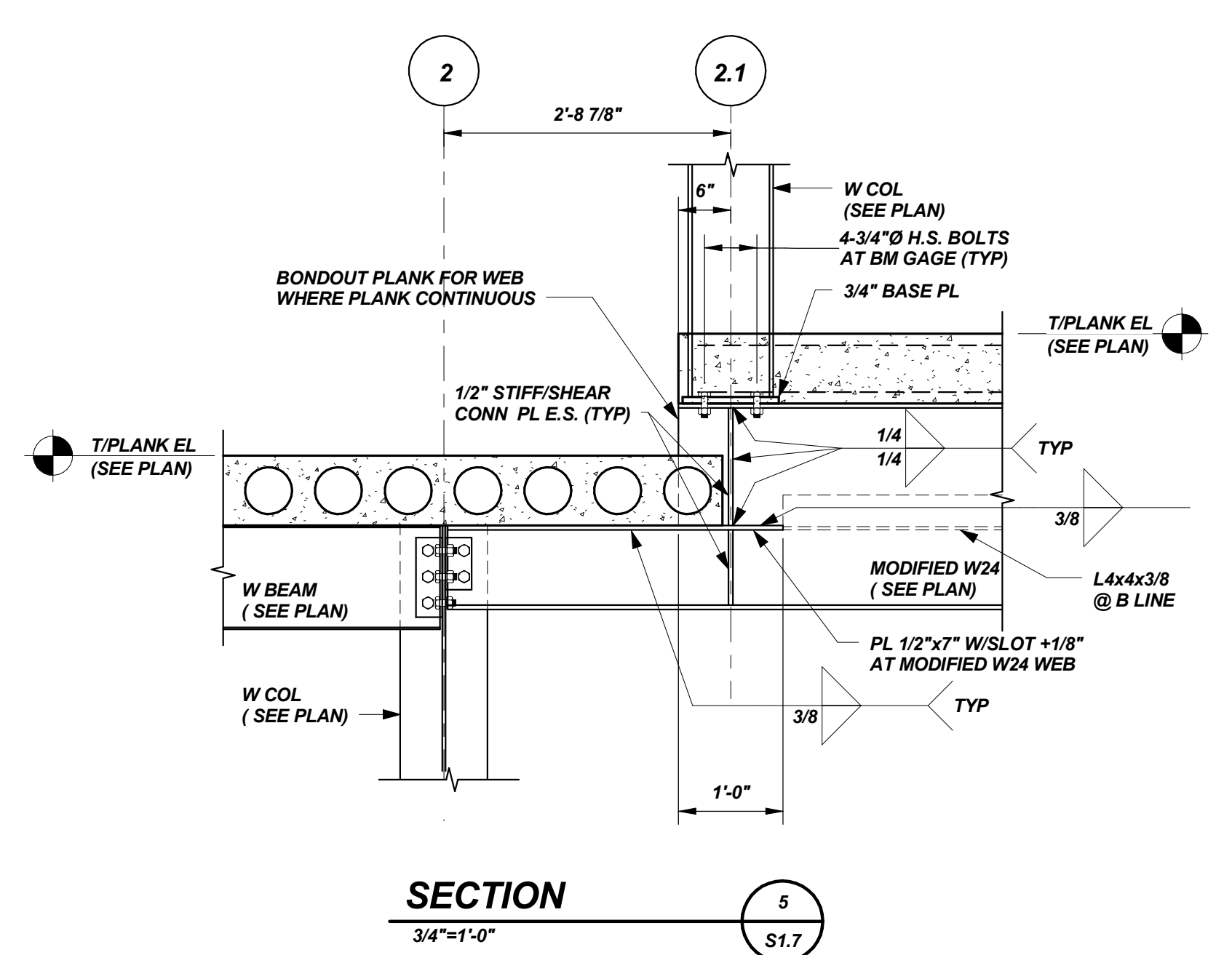
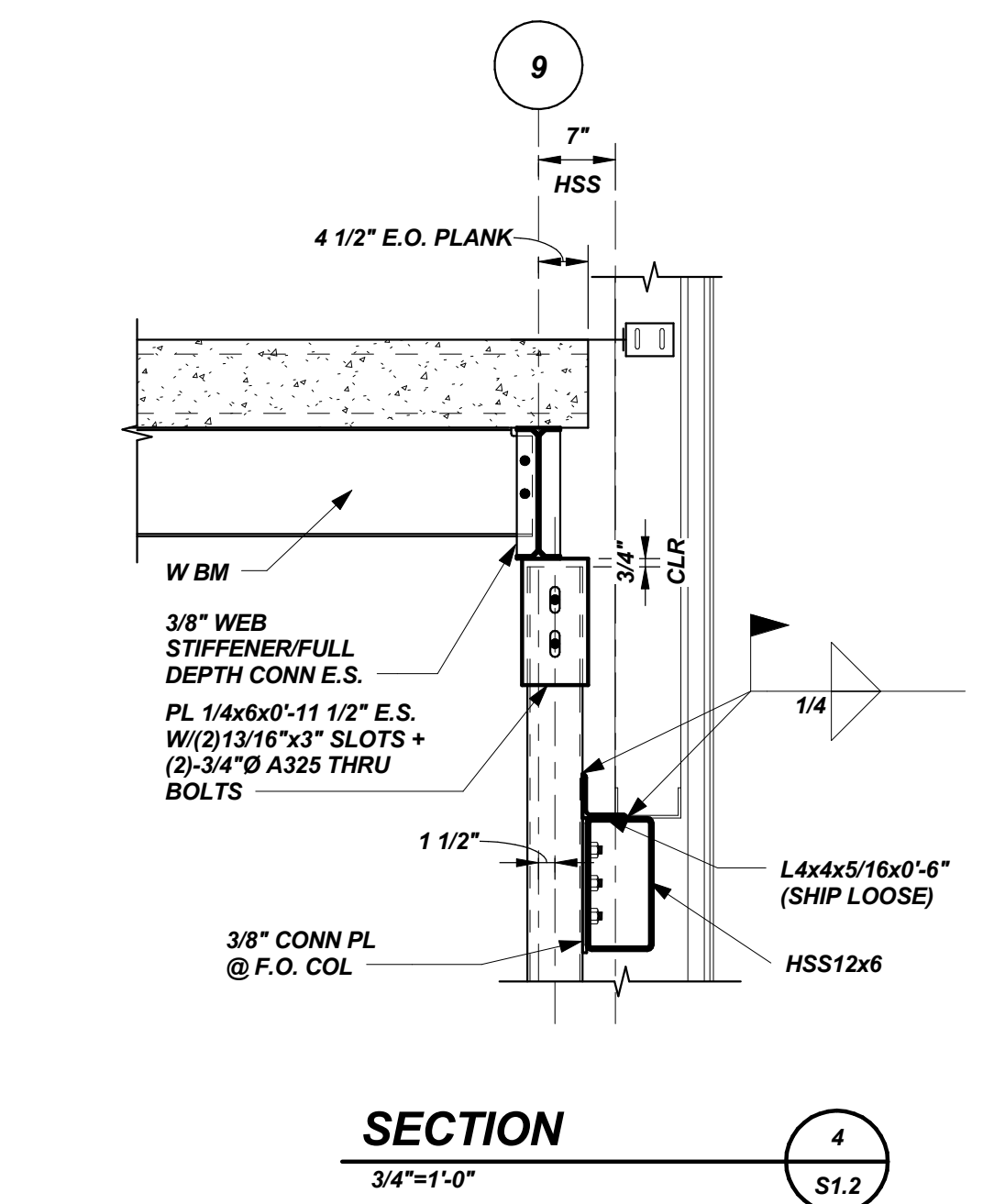
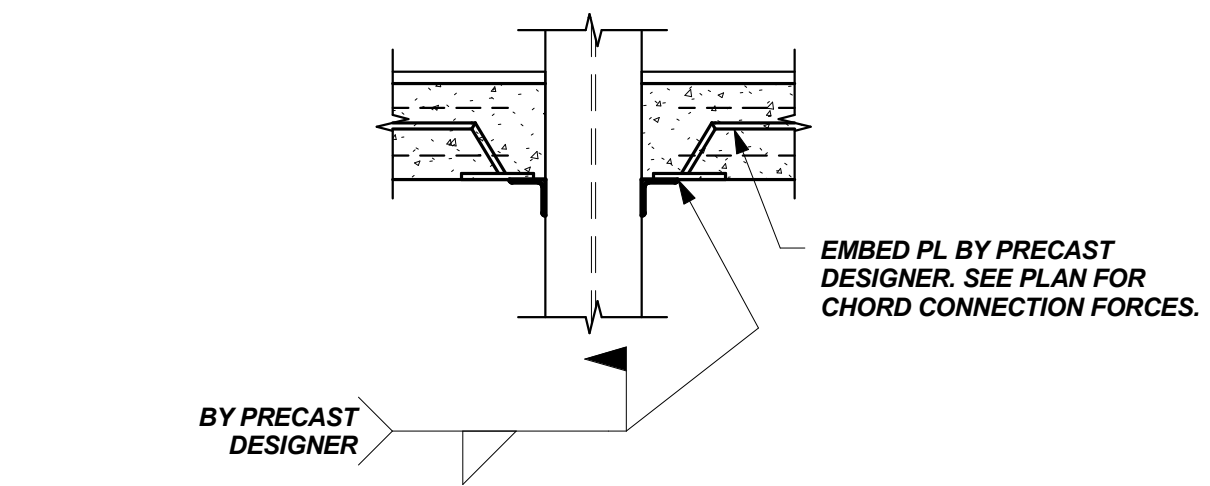
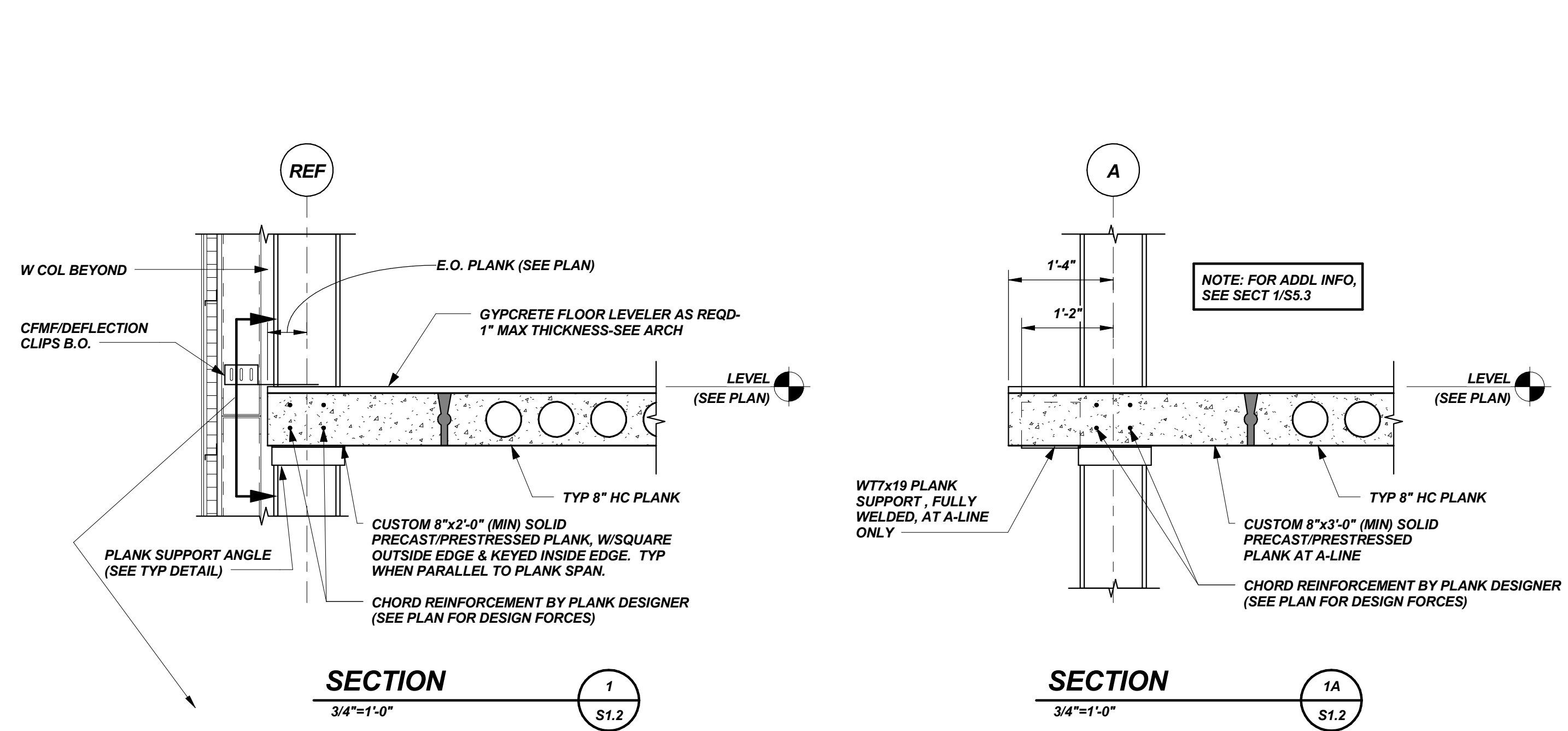


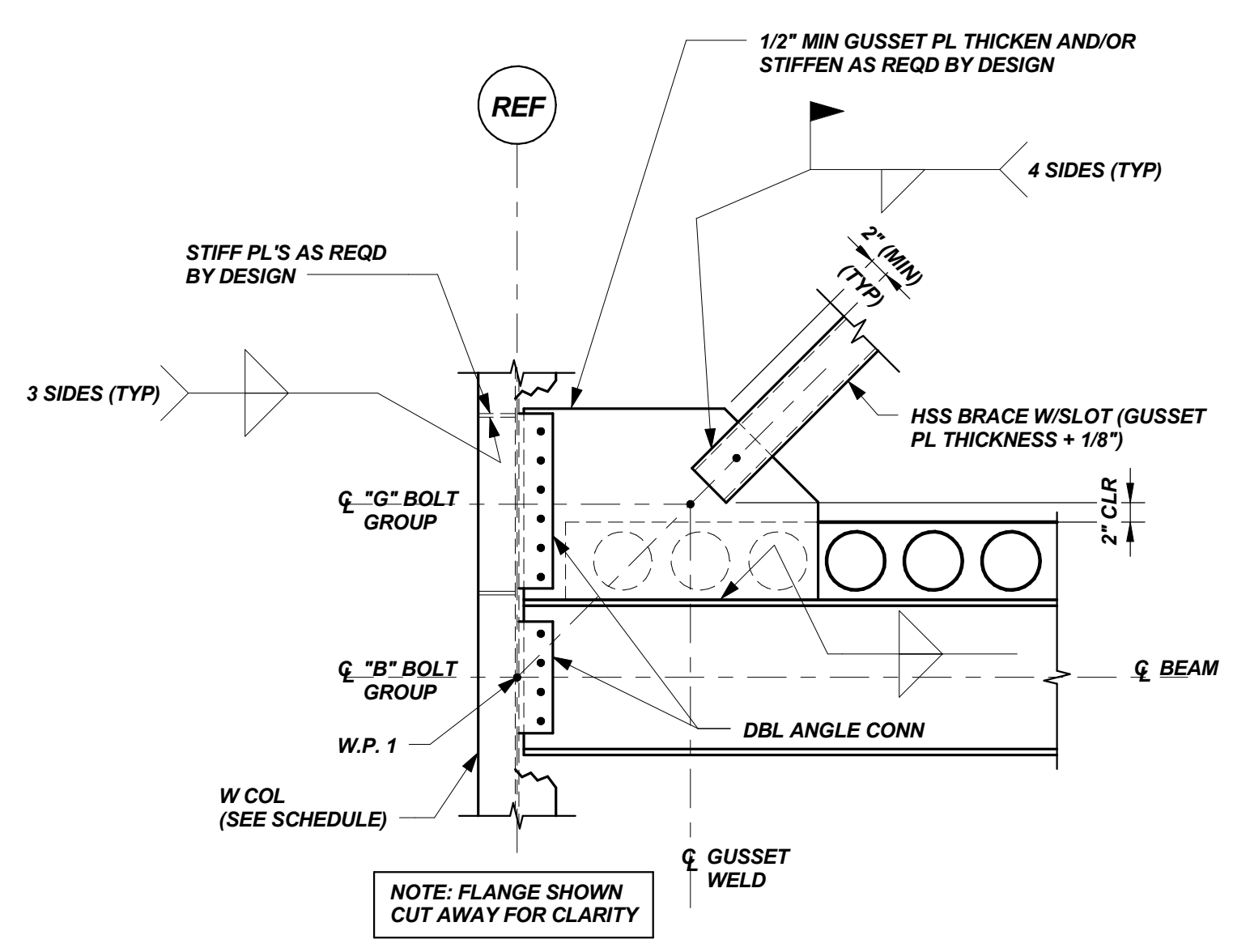
TYP COL BASE DETAIL U.N.O.
N.T.S.



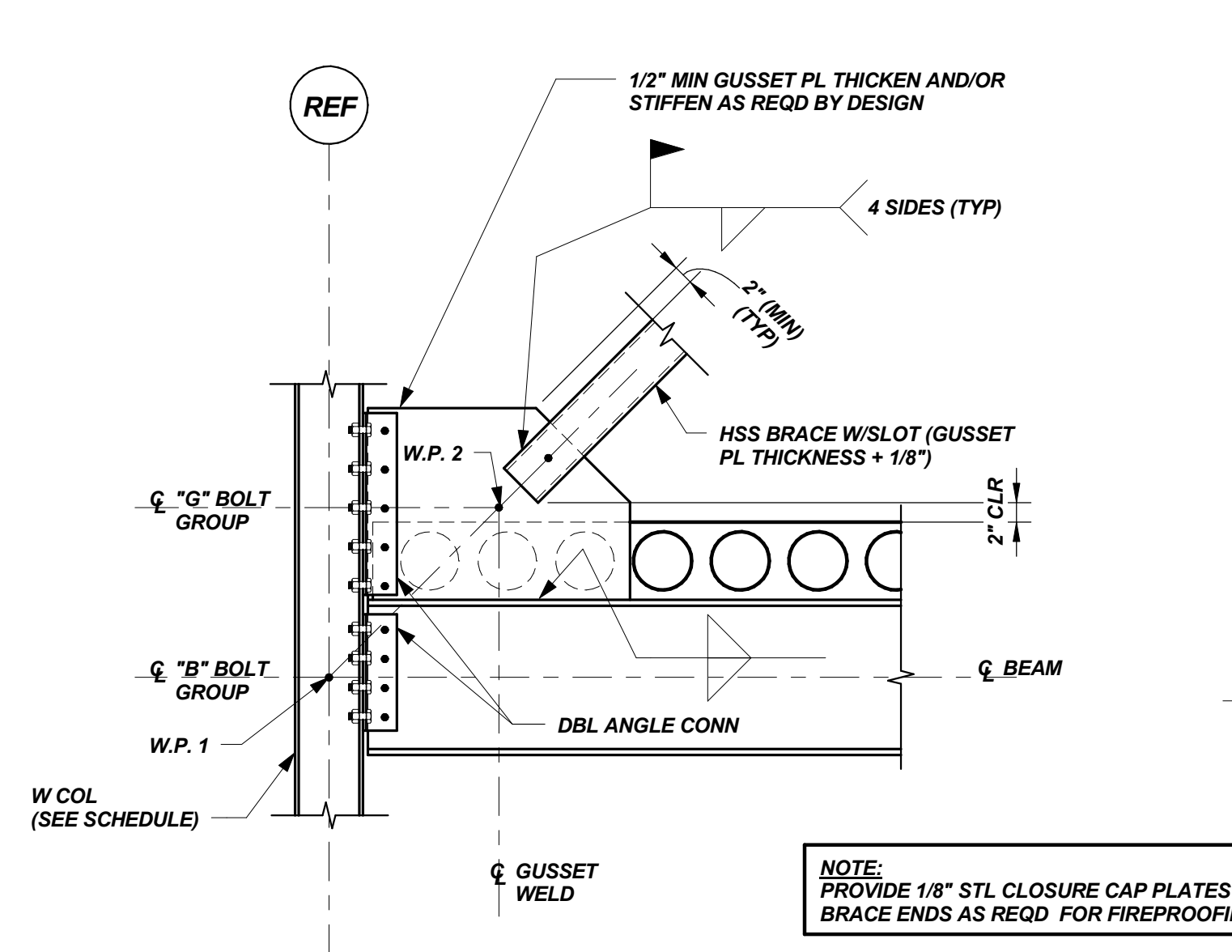
TYP BASE PLATE DETAILS
N.T.S.

NOTE: LOCATIONS ON COL SCHEDULE INDICATED BY ASTERISK (*) SHALL HAVE 2 1/2" THICK BASE PLATE W/ 1"Ø F1554 GR105 A.R. & PL 5/8x3x3 WASHERS. PROVIDE FULL PEN WELD AT COL TO BASE PLATE. SEE TYP ROCK SOCKET & FOUNDATION PIER DETAIL FOR ADDL A.R. EMBED REQUIREMENTS, PROVIDE 5" PROJ.

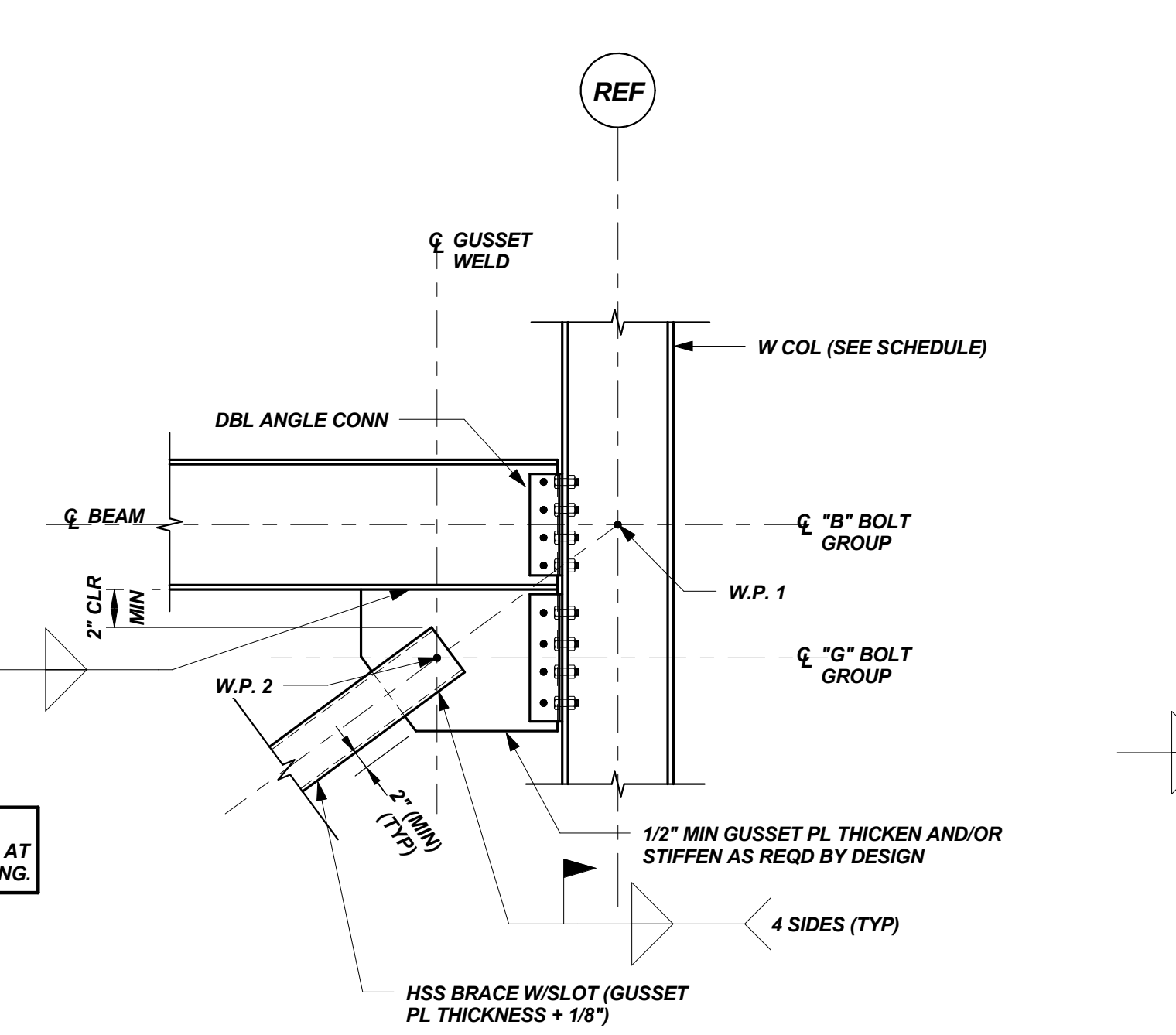




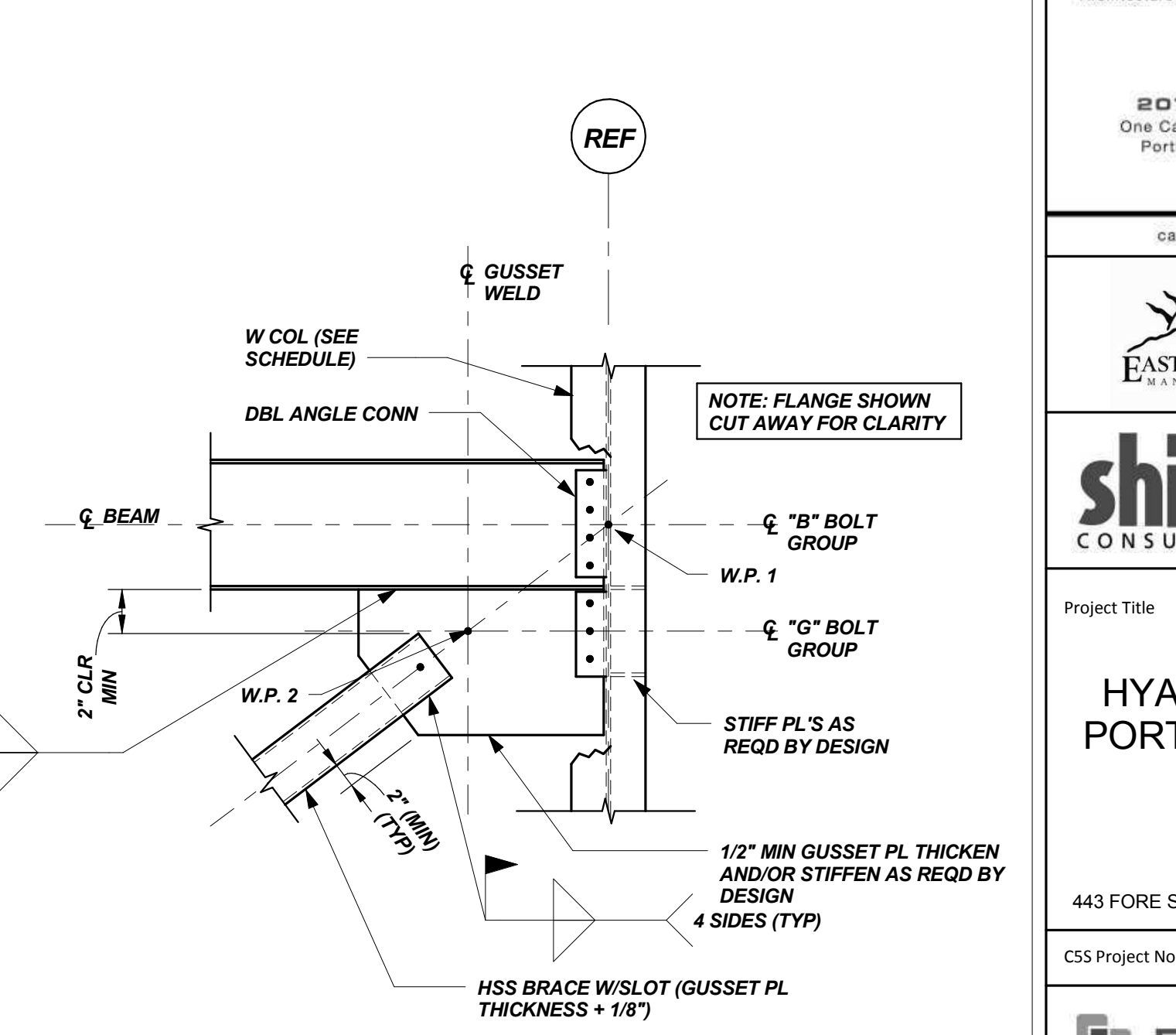
DETAIL
 3/4"=1'-0"
 A
 S2.1, S2.2



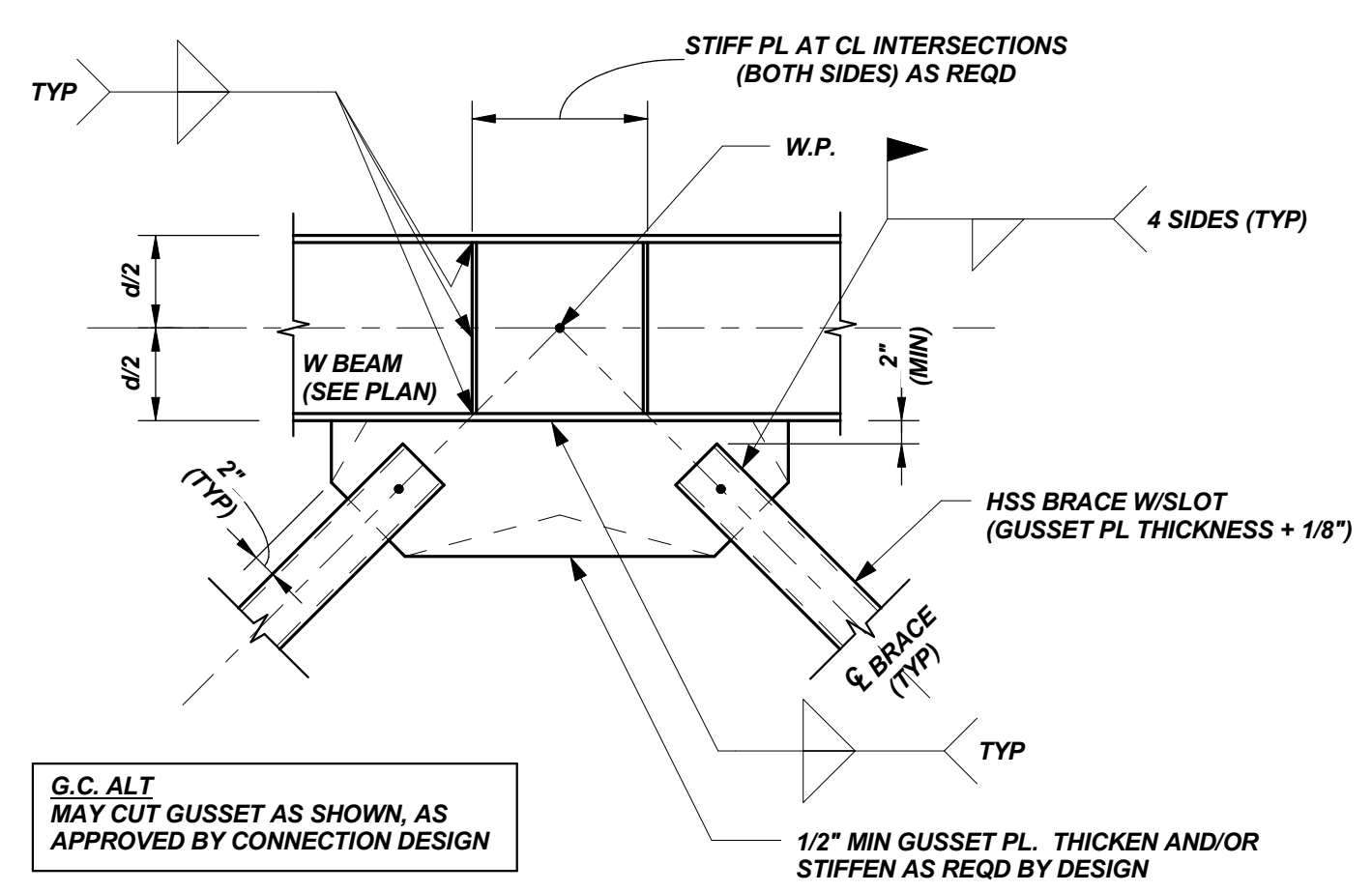
DETAIL
 3/4"=1'-0"
 B
 S2.1, S2.2



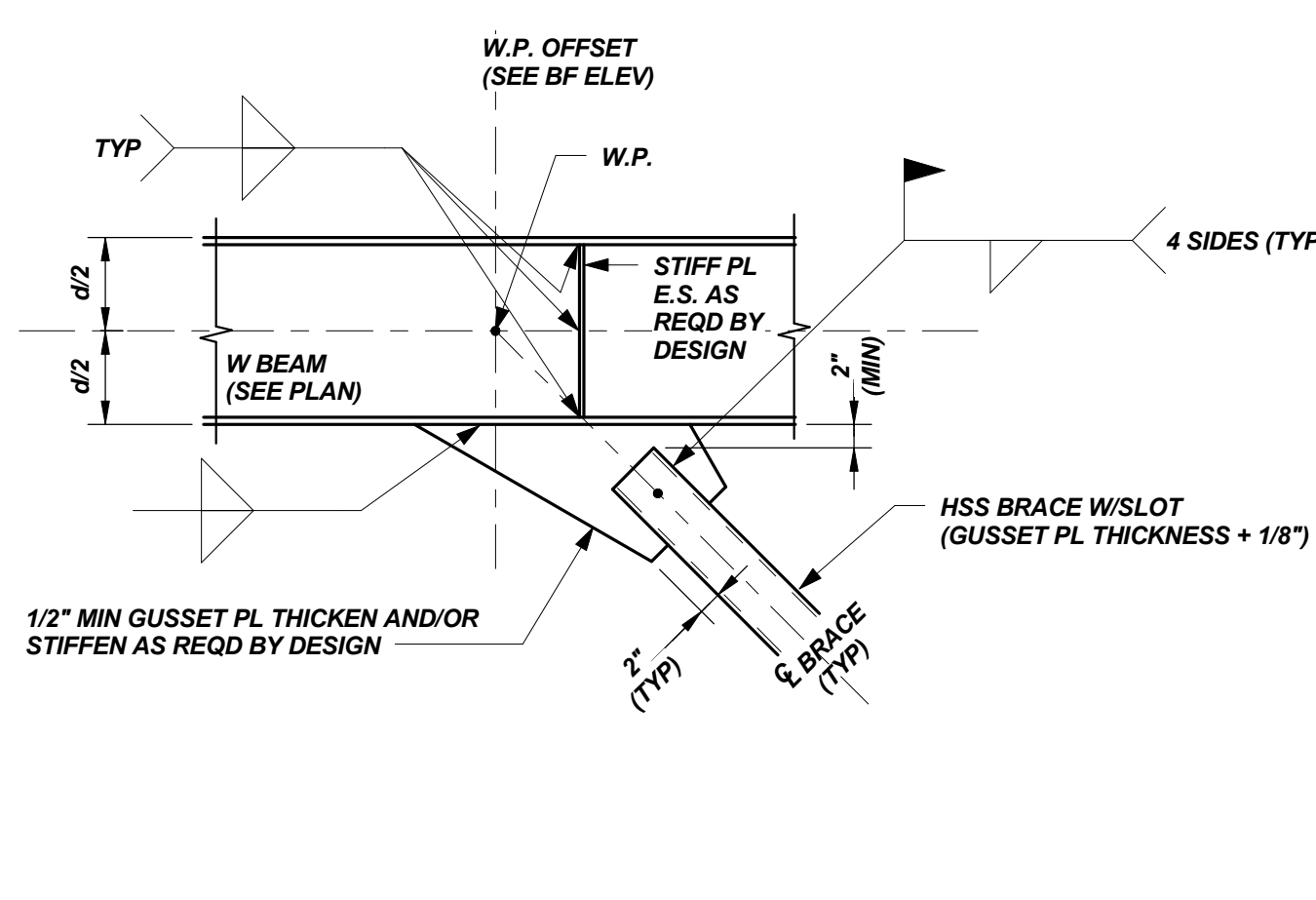
DETAIL
 3/4"=1'-0"
 C
 S2.1, S2.2



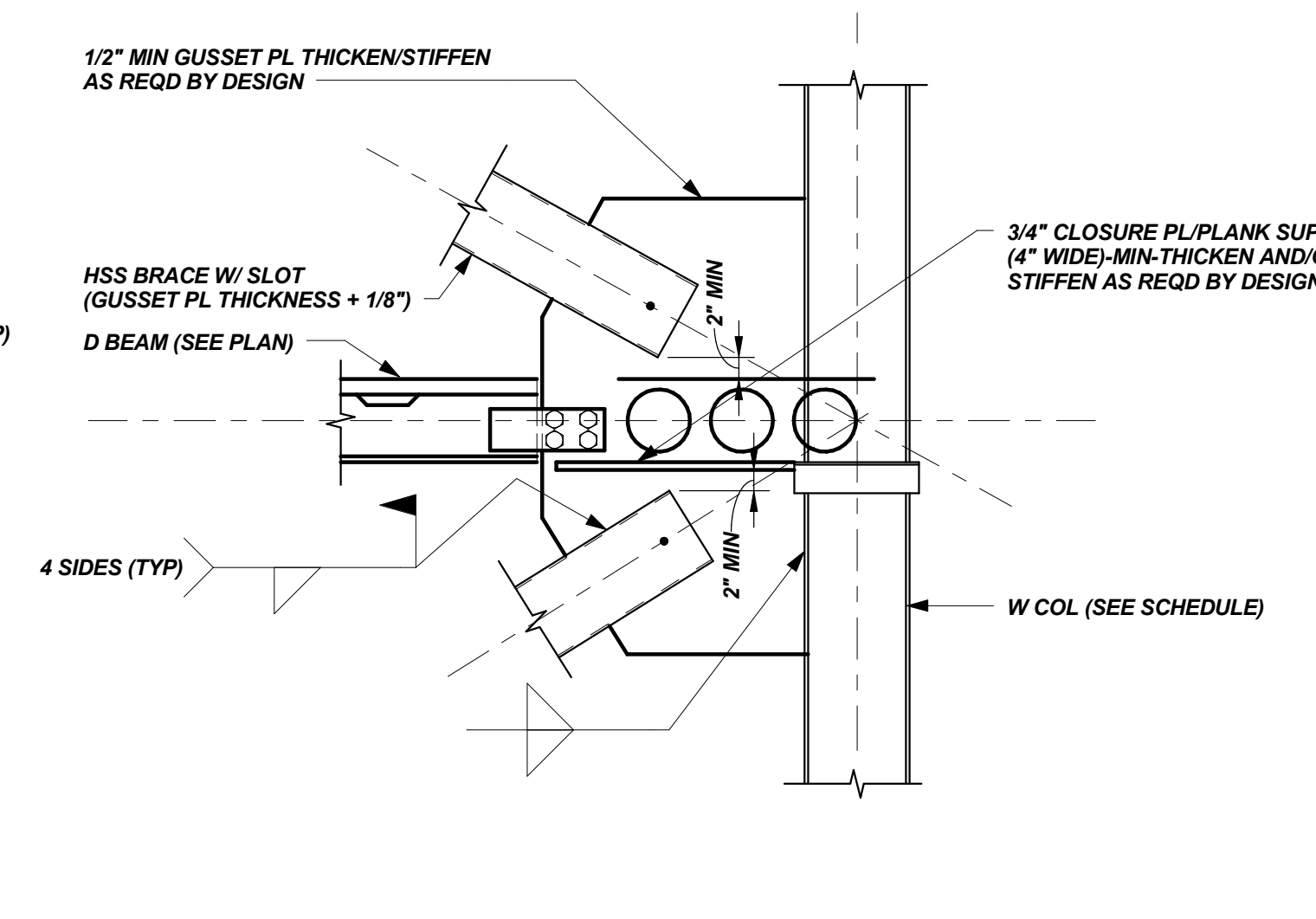
DETAIL
 3/4"=1'-0"
 D
 S2.1, S2.2



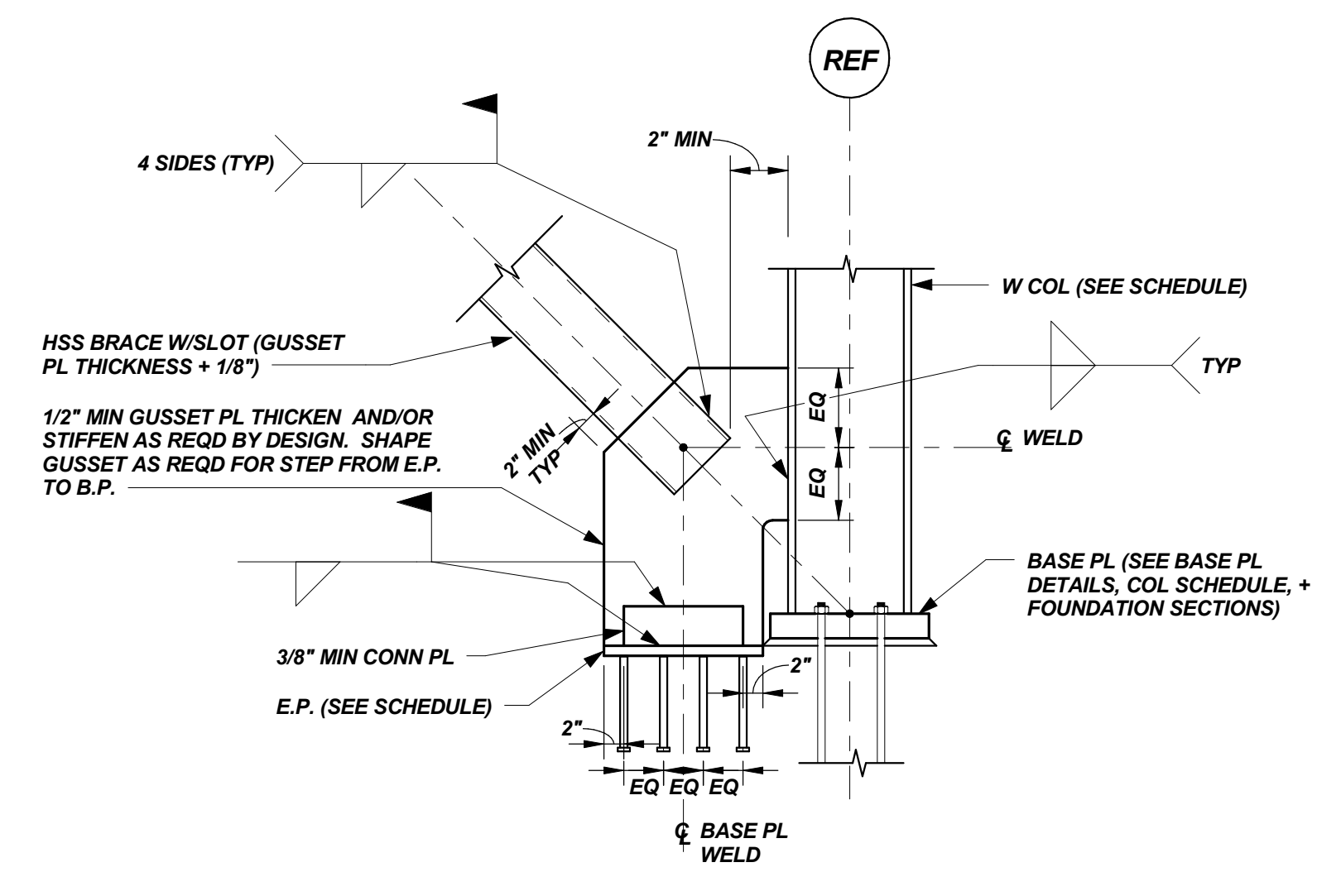
DETAIL
 3/4"=1'-0"
 E
 S2.1, S2.2



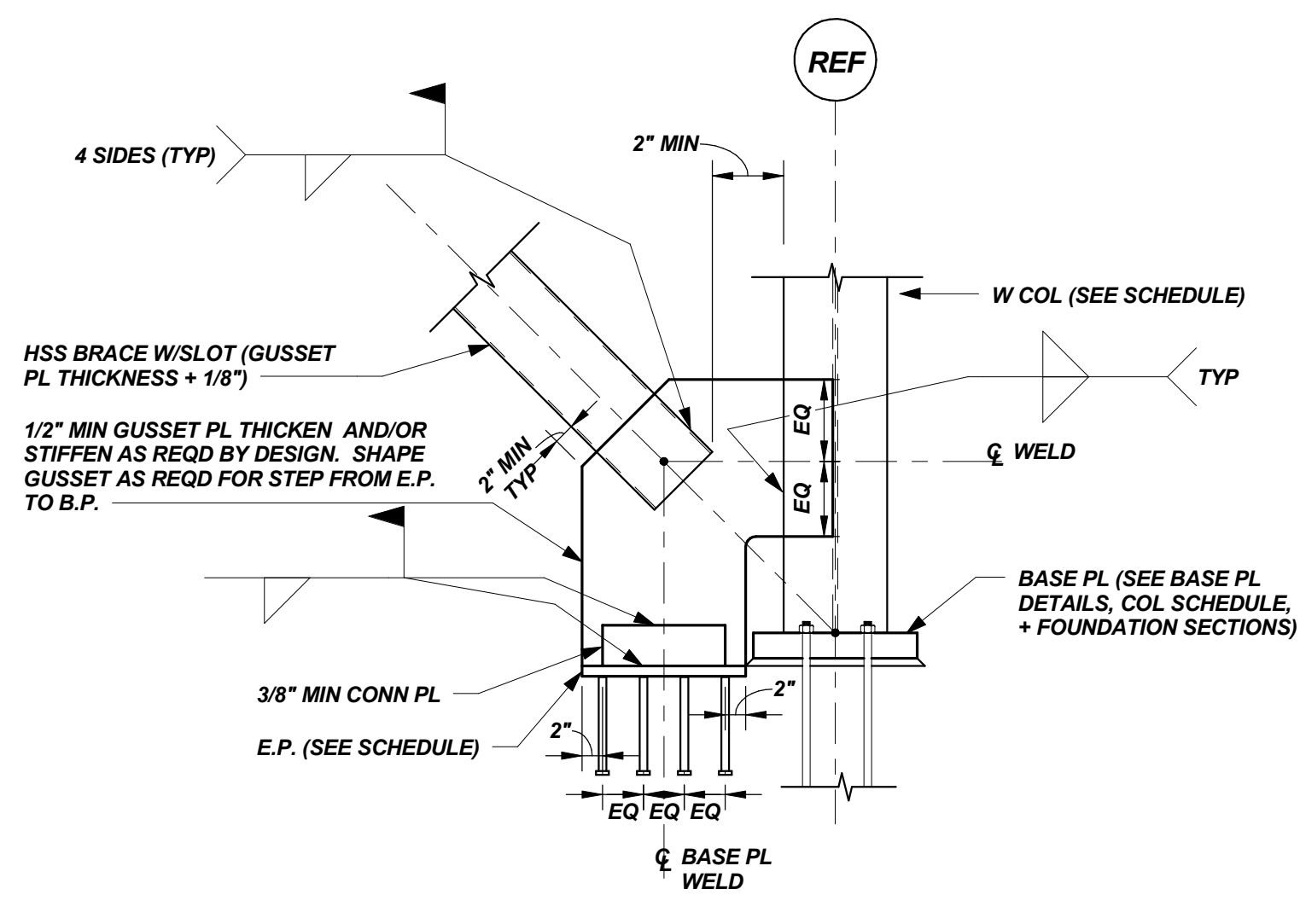
DETAIL
 3/4"=1'-0"
 F
 S2.1, S2.2



DETAIL
 3/4"=1'-0"
 G
 S2.1, S2.2



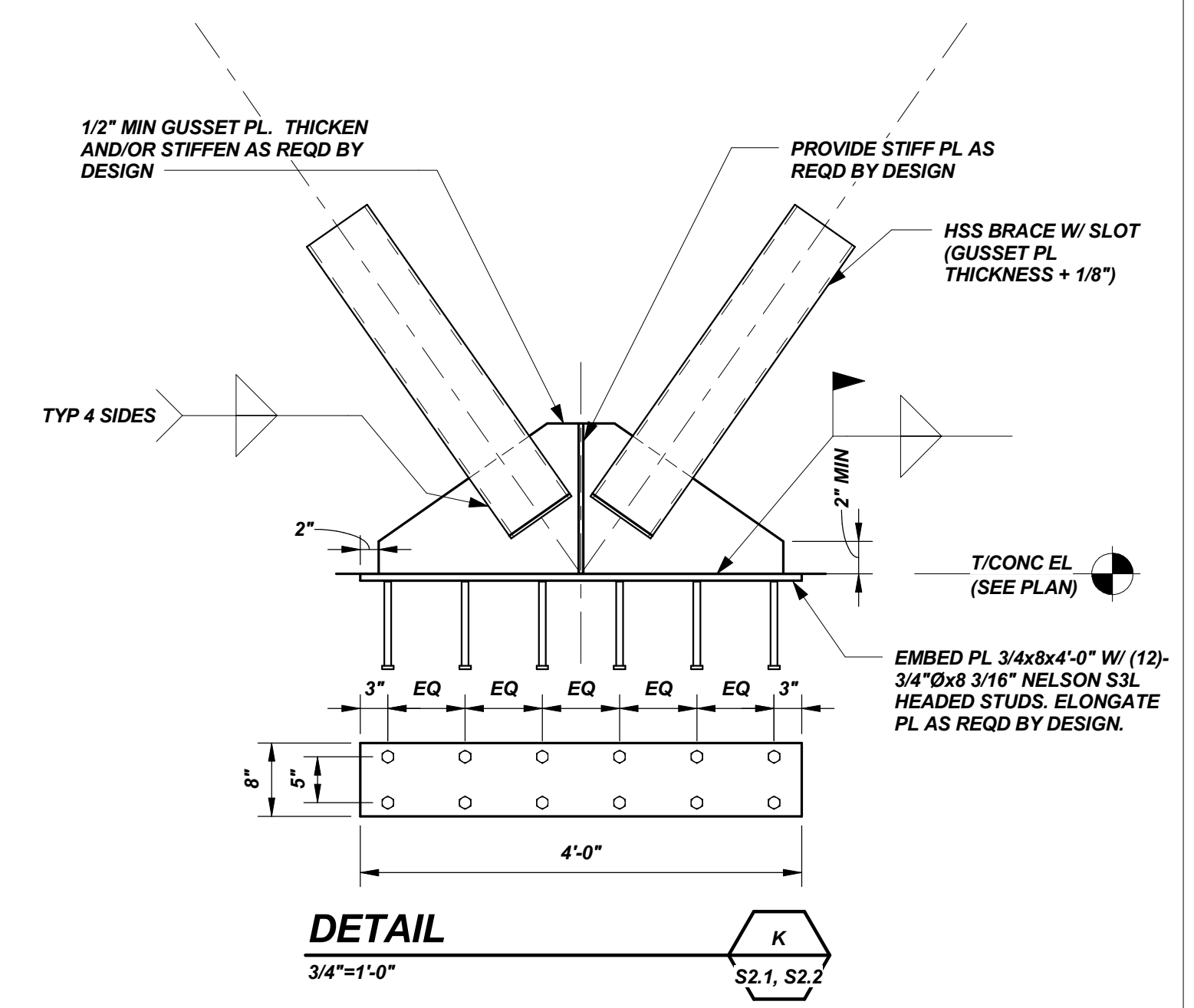
DETAIL
 3/4"=1'-0"
 H
 S2.1, S2.2



DETAIL
 3/4"=1'-0"
 J
 S2.1, S2.2

EMBED PLATE SCHEDULE			
EMBED PLATE	LOCATION	# STUDS	PLATE LENGTH
EP-1	D/1	14	2'-4"
EP-2	D/6 & D/8	12	2'-0"
EP-3	C.5/2, C/4, C/5 & D/5	8	1'-4"

- NOTES:**
1. PLATE SHALL BE 1"x8" GR36.
 2. STUDS SHALL BE 3/4"x8 3/16" NELSON S3L HEADED STUDS IN (2) ROWS



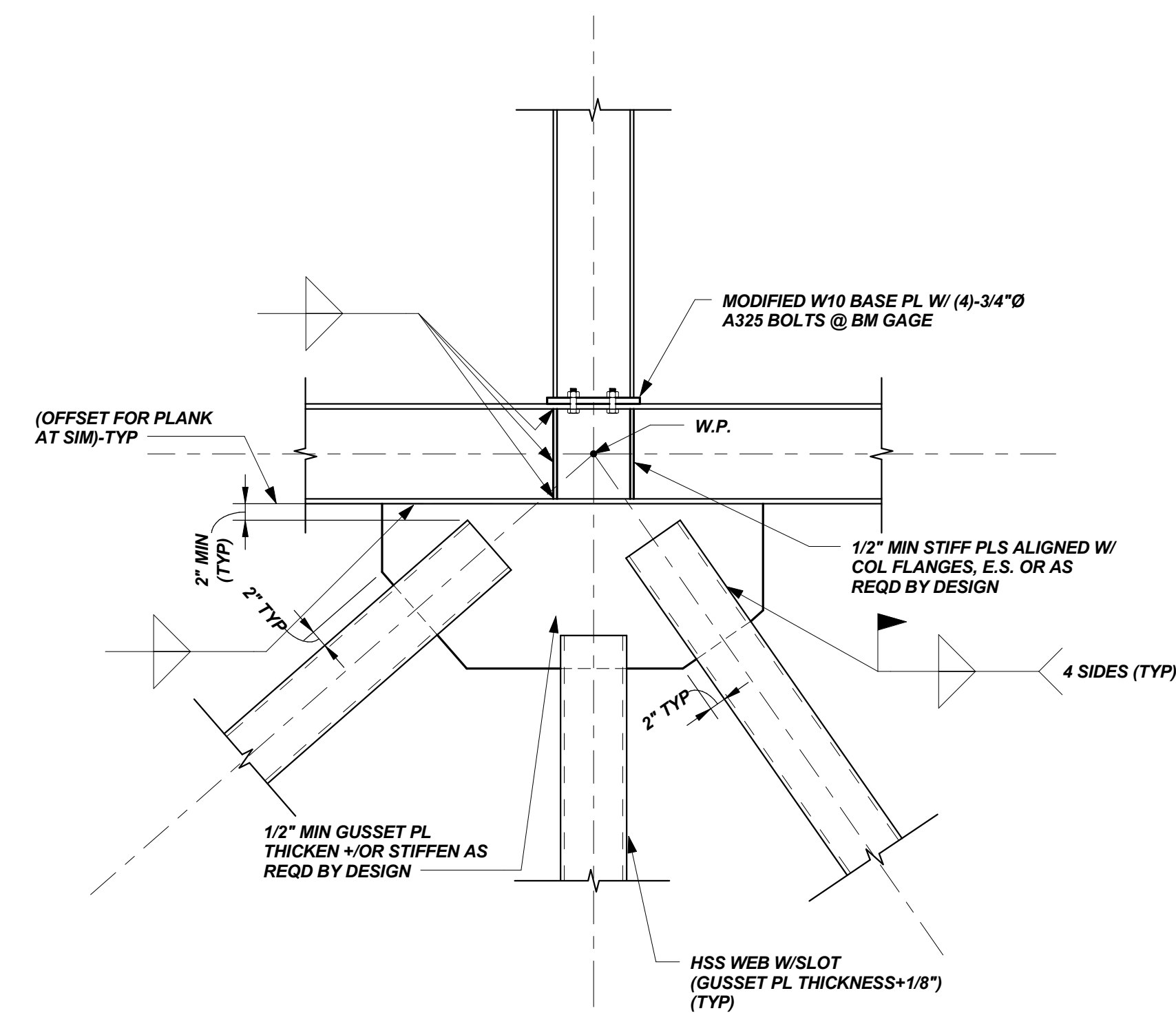
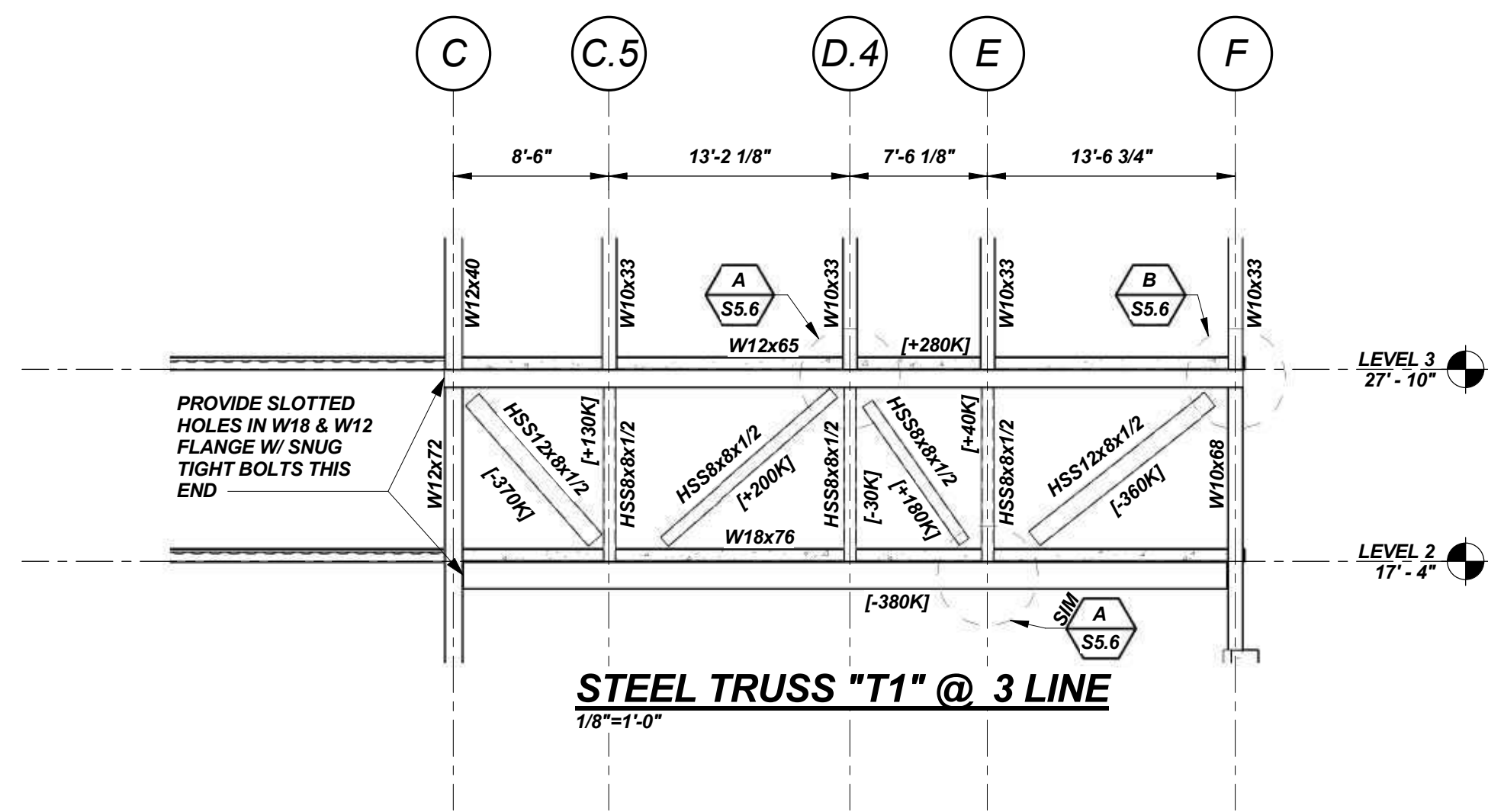
DETAIL
 3/4"=1'-0"
 K
 S2.1, S2.2

G.C. ALT
 MAY CUT GUSSET AS SHOWN, AS
 APPROVED BY CONNECTION DESIGN

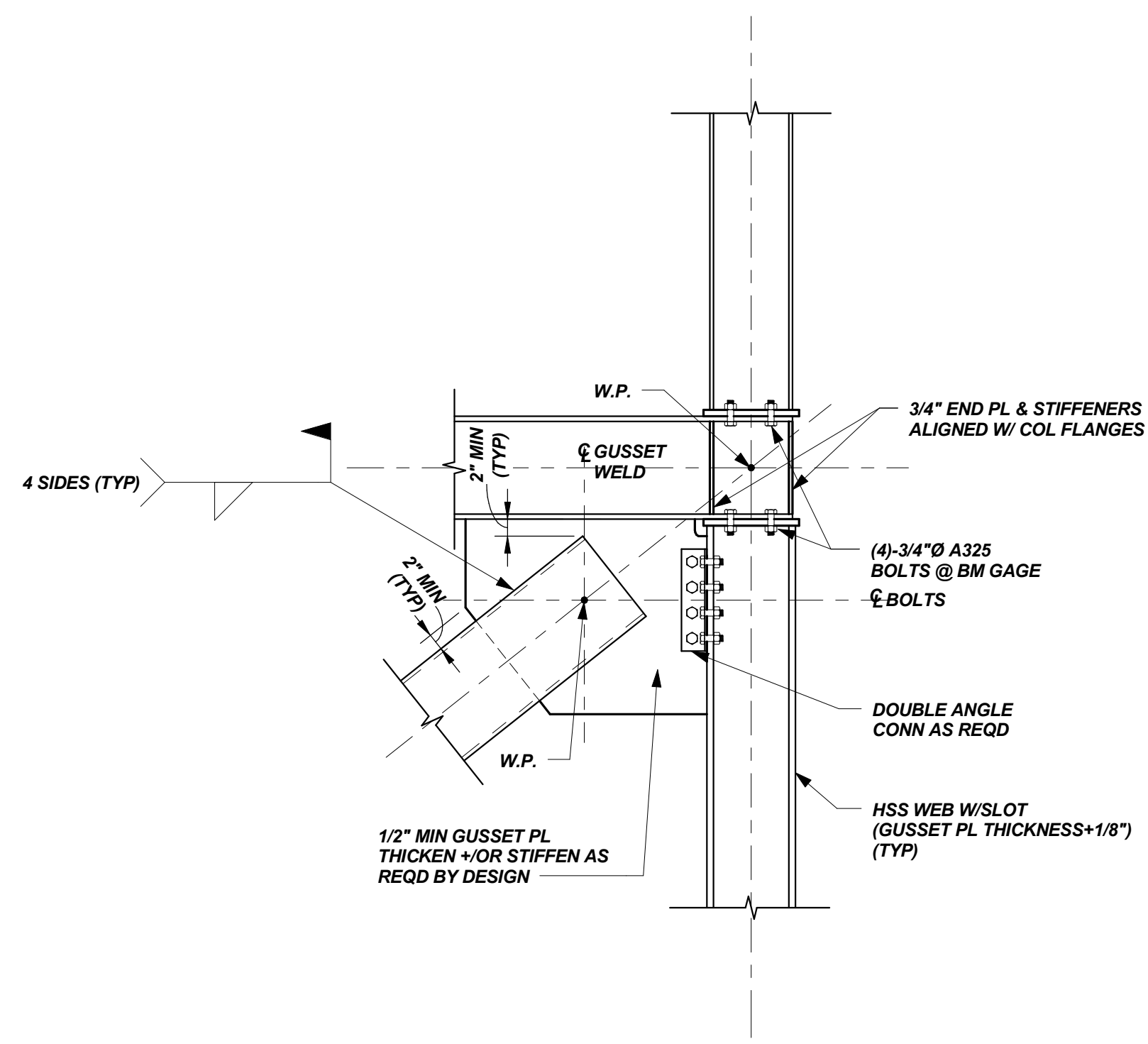
NOTE:
 PROVIDE 1/8" STL CLOSURE CAP PLATES AT
 BRACE ENDS AS REQD FOR FIREPROOFING.

NOTE: FLANGE SHOWN
 CUT AWAY FOR CLARITY

NOTE: FLANGE SHOWN
 CUT AWAY FOR CLARITY



DETAIL
3/4"=1'-0"
A
S5.6



DETAIL
3/4"=1'-0"
B
S5.6

Mark	Date	Description
Project Status		
ISSUED FOR CONSTRUCTION		
11/16/12		
Drawing Title		
FRAMING SECTIONS & DETAILS		
Scale: As indicated		
Drawing Number		
S5.6		