



STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS & TESTING

- 1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER FOR THE ITEMS IDENTIFIED IN THIS SECTION AND IN OTHER AREAS OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS...
2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL...
3. DATES OF THE SPECIAL INSPECTION...
4. DUES AND RESPONSIBILITIES OF THE CONTRACTOR...
5. PLEASE SEE THE SPECIAL INSPECTION SCHEDULE FOR THE TESTS, DATES AND FREQUENCY OF SPECIAL INSPECTIONS AND STRUCTURAL TESTS AS PART OF THIS PROJECT.

WIND-RESISTING COMPONENTS (7703.1.3)

- PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FASTENING OF THE FOLLOWING SYSTEMS AND COMPONENTS:
1. ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS
2. EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: AFTER BUILDING CONSTRUCTION AND LANDSCAPING HAVE BEEN COMPLETED, GRADES AROUND THE STRUCTURE, PLUMBING LEAK 'HYDROSTATIC' TEST, WHERE PAVING/FLATWORK ABOUT THE FOUNDATION.

REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1705.4)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS, VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH, PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS.

REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION (§1705.5)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: PREFABRICATED WOOD STRUCTURAL ELEMENTS, HIGH-LOAD DIAPHRAGMS, METAL PLATE-CONNECTED WOOD TRUSSES, INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS.

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION (§1705.2.1)

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: INSPECTION TASKS PRIOR TO WELDING (ASCC 340 TABLE NS 4-1), WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE, MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.

STRUCTURAL STEEL - ANCHOR RODS / EMBED PLATES

THE SPECIAL INSPECTOR SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS...

STRUCTURAL STEEL - WELDS

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: USE OF QUALIFIED WELDERS, CONTROL AND HANDLING OF WELDING CONSUMABLES, NO WELDING OVER CRACKED TACK WELDS, ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE), WPS FOLLOWED, WELDING TECHNIQUES, WELDS CLEANED, SIZE, LENGTH AND LOCATION OF WELDS, WELDS MEET VISUAL ACCEPTANCE CRITERIA, ARC STRIKES, I-AREA, BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED), REPAIR ACTIVITIES, DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT MEMBER.

NON-DESTRUCTIVE TESTING OF WELDED JOINTS

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: FILLET WELDS: MT TEST A MINIMUM OF 10% OF THE LENGTH OF EACH FILLET WELD EXCEEDING 5/16", PERIODIC MT TESTING OF REPRESENTATIVE FILLET WELDS 5/16" AND LESS BUT NEED NOT EXCEED 10% OF ALL SUCH WELDS, INCREASE MT TESTING RATE FOR WELDERS HAVING A HIGH REJECTION RATE AS REQUIRED TO ENSURE ACCEPTABLE WELDS, PARTIAL JOINT PENETRATION (PJP) WELDS INCLUDING FLARE BEVEL WELDS, COMPLETE JOINT PENETRATION (CJP) WELDS.

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (TURN-OF-NUT)

TURN-OF-NUT PRETENSIONING: THE INSPECTOR SHALL OBSERVE THE PRE-INSTALLATION VERIFICATION TESTING REQUIRED IN SECTION 8.2. SUBSEQUENTLY, IT SHALL BE ENSURED BY ROUTINE OBSERVATION THAT THE BOLTING CREW PROPERLY ROTATES THE TURNED ELEMENT RELATIVE TO THE UNTURNED ELEMENT BY THE AMOUNT SPECIFIED IN TABLE 8.2.4 (AS APPLICABLE)...

Table with 4 columns: BOLT LENGTH, DISPOSITION OF OUTER FACES OF BOLTED PARTS, LENGTH <= 4d, 4d < LENGTH <= 8d, 8d < LENGTH <= 12d. Rows include: BOTH FACES NORMAL TO BOLT AXIS, ONE FACE NORMAL TO BOLT AXIS, OTHER SLOPED NOT MORE THAN 1:20, BOTH FACES SLOPED NOT MORE THAN 1:20 FROM NORMAL TO BOLT AXIS.

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (ENUG-TIGHT) - INSPECTION TASKS PRIOR TO BOLTING

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: DOCUMENTATION AND ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

STRUCTURAL STEEL HIGH-STRENGTH BOLTS (ENUG-TIGHT) - INSPECTION TASKS DURING BOLTING

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: DOCUMENTATION OF ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

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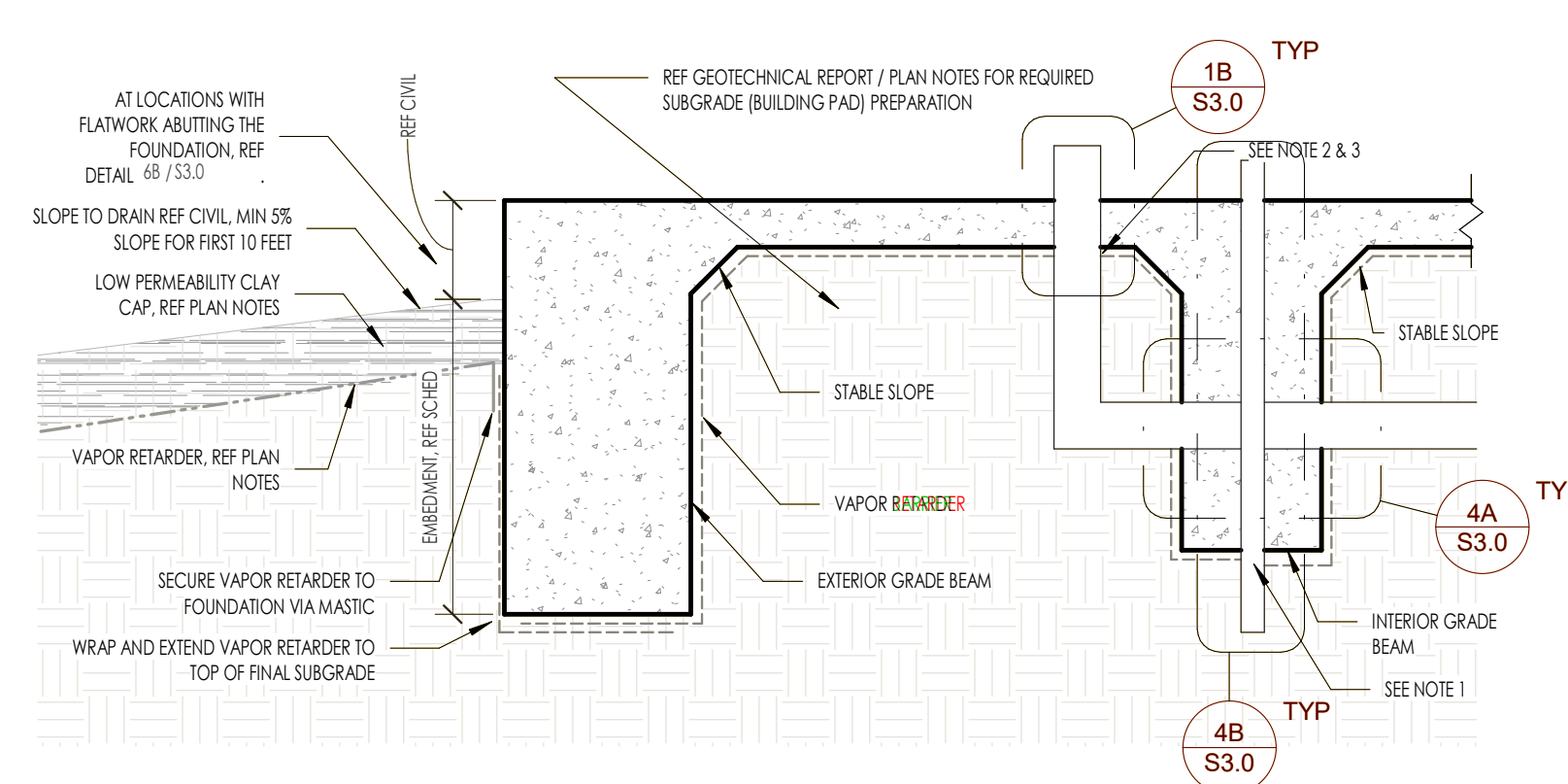
amc
MEP: AMC Engineers
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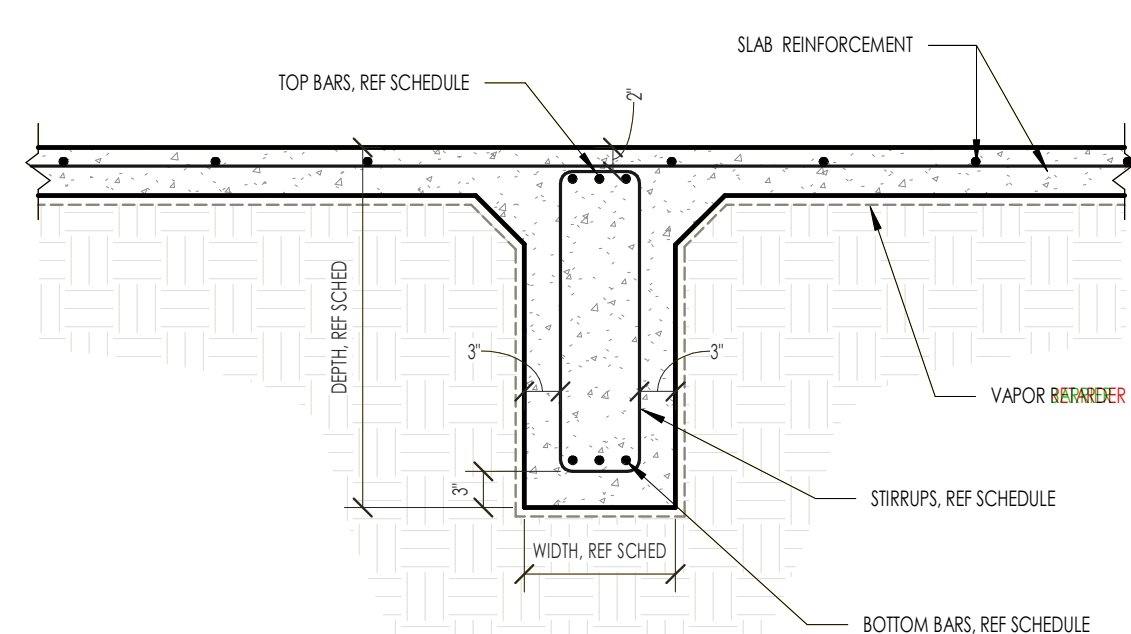
Table with 2 columns: Date, Description. Empty rows for recording inspection details.

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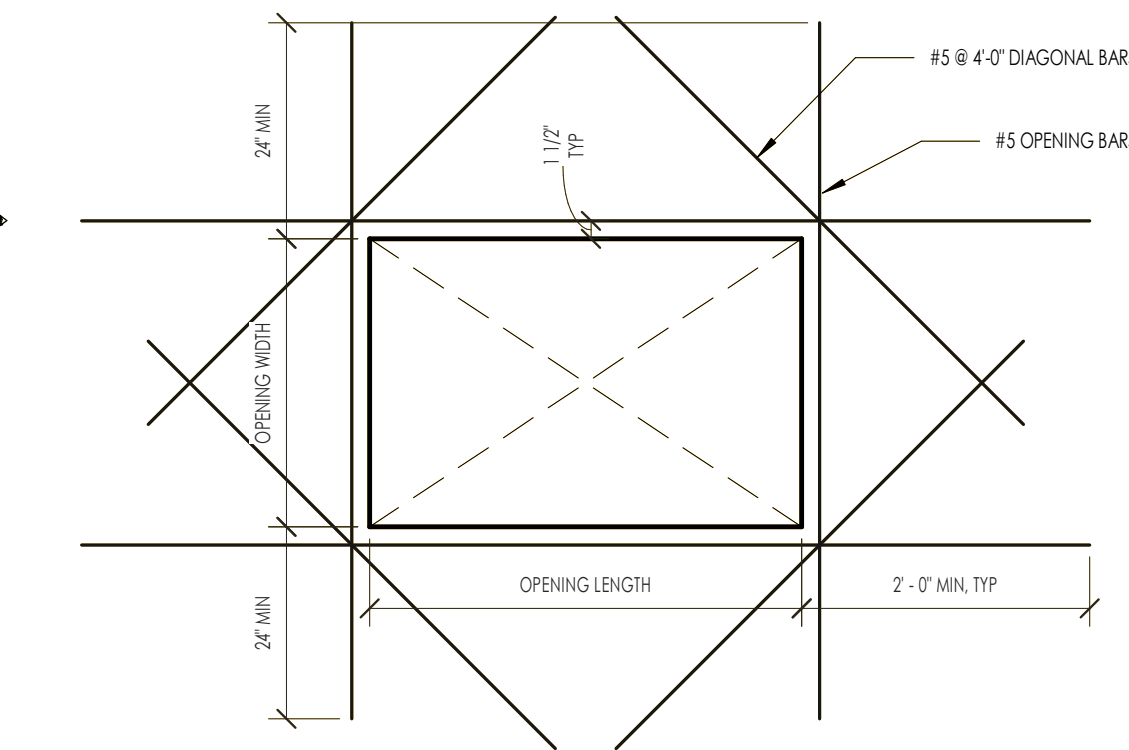


NOTES:  
1. CUT AND/OR LAP THE VAPOR RETARDER AT THE BOTTOM OF INTERIOR GRADE BEAMS. THE VAPOR RETARDER SHALL BE SECURED TO THE SIDES OF THE GRADE BEAM. IF LAPS ARE REQUIRED ON TOP OF THE SLAB, THEY MUST BE TAPED PER MFR RECOMMENDATIONS.  
2. ALL PIPE, DUCTING, REAR, WIRE PENETRATIONS AND BLOCK OUTS SHOULD BE SEALED USING AFR RECOMMENDED WRAP, TAPE AND/OR MASTIC.  
3. IN THE EVENT THAT THE VAPOR RETARDER IS DAMAGED DURING OR AFTER INSTALLATION, REPAIRS MUST BE MADE. FOR HOLES, CUT A PIECE OF VAPOR RETARDER TO A SIZE AND SHAPE THAT COVERS ANY DAMAGE BY A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS. CLEAN ALL ADHESION AREAS OF DUST, OIL, MOISTURE, AND FROST. TAPE DOWN ALL EDGES USING AFR RECOMMENDED TAPE.

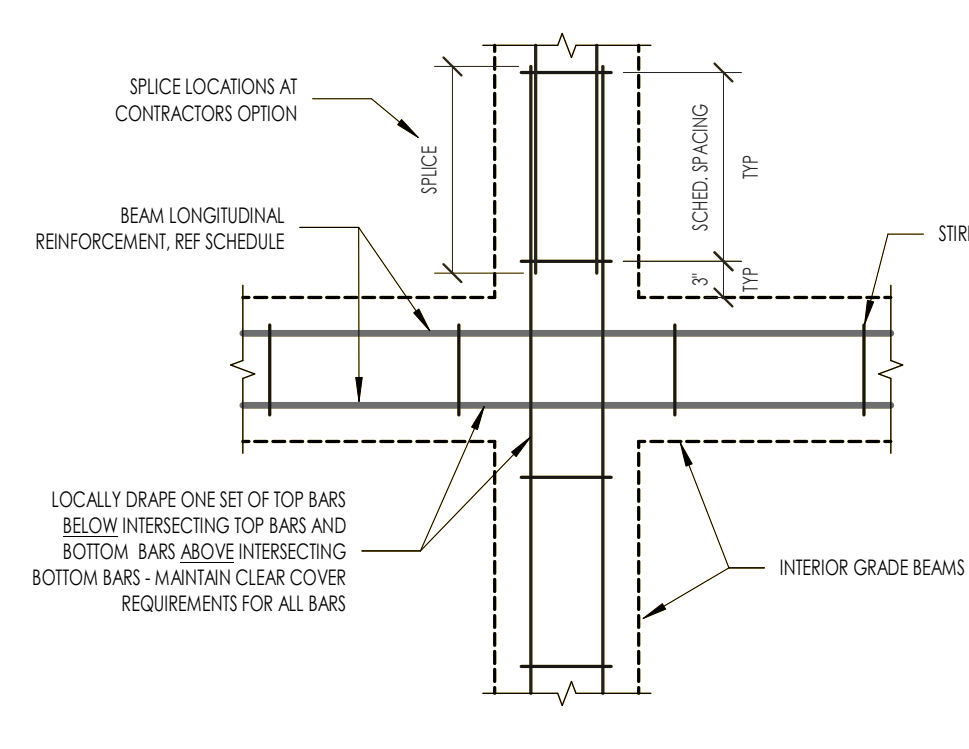
1B TYPICAL SUBGRADE AND VAPOR RETARDER PREPARATION  
NOT TO SCALE



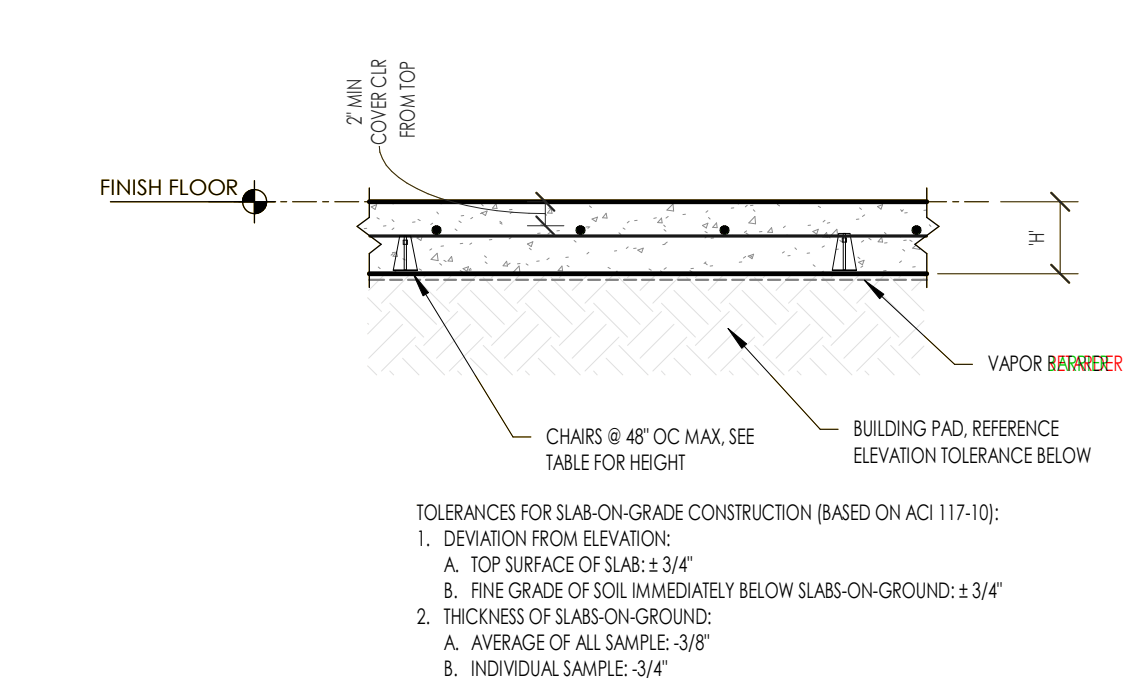
2D TYPICAL INTERIOR GRADE BEAM  
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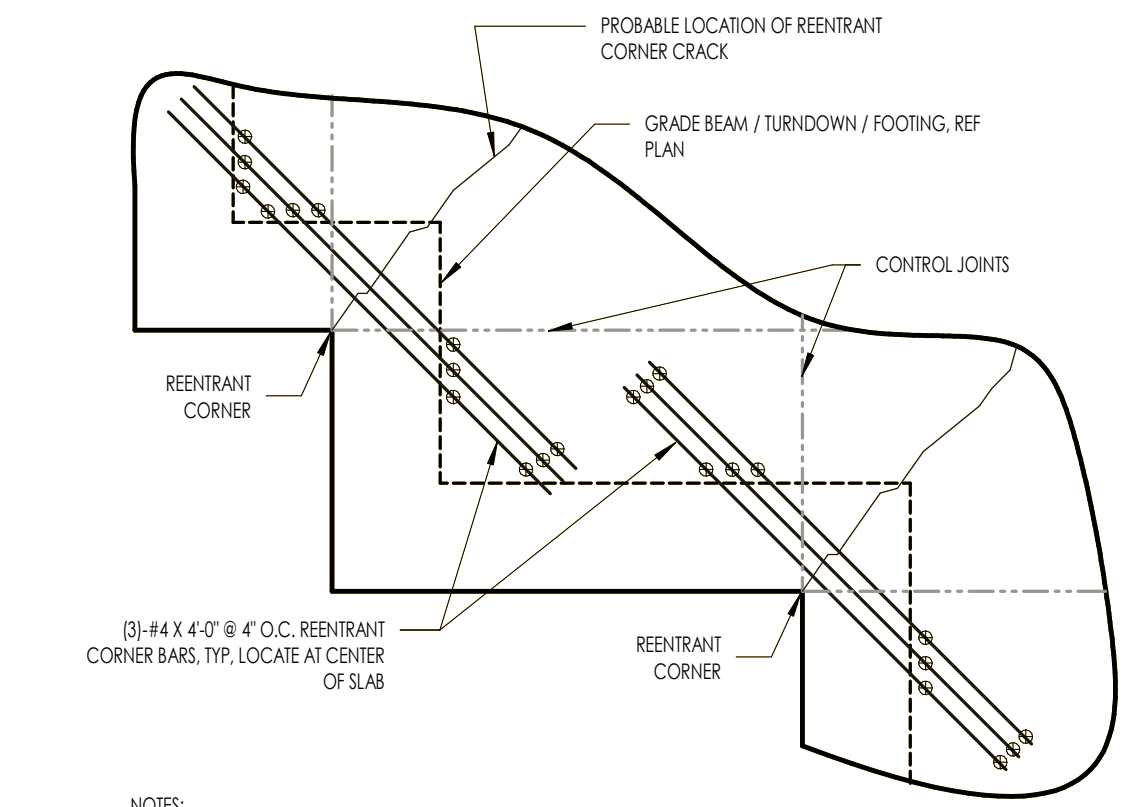
1D TYPICAL REINFORCEMENT AT SLAB BLOCKOUT  
NOT TO SCALE



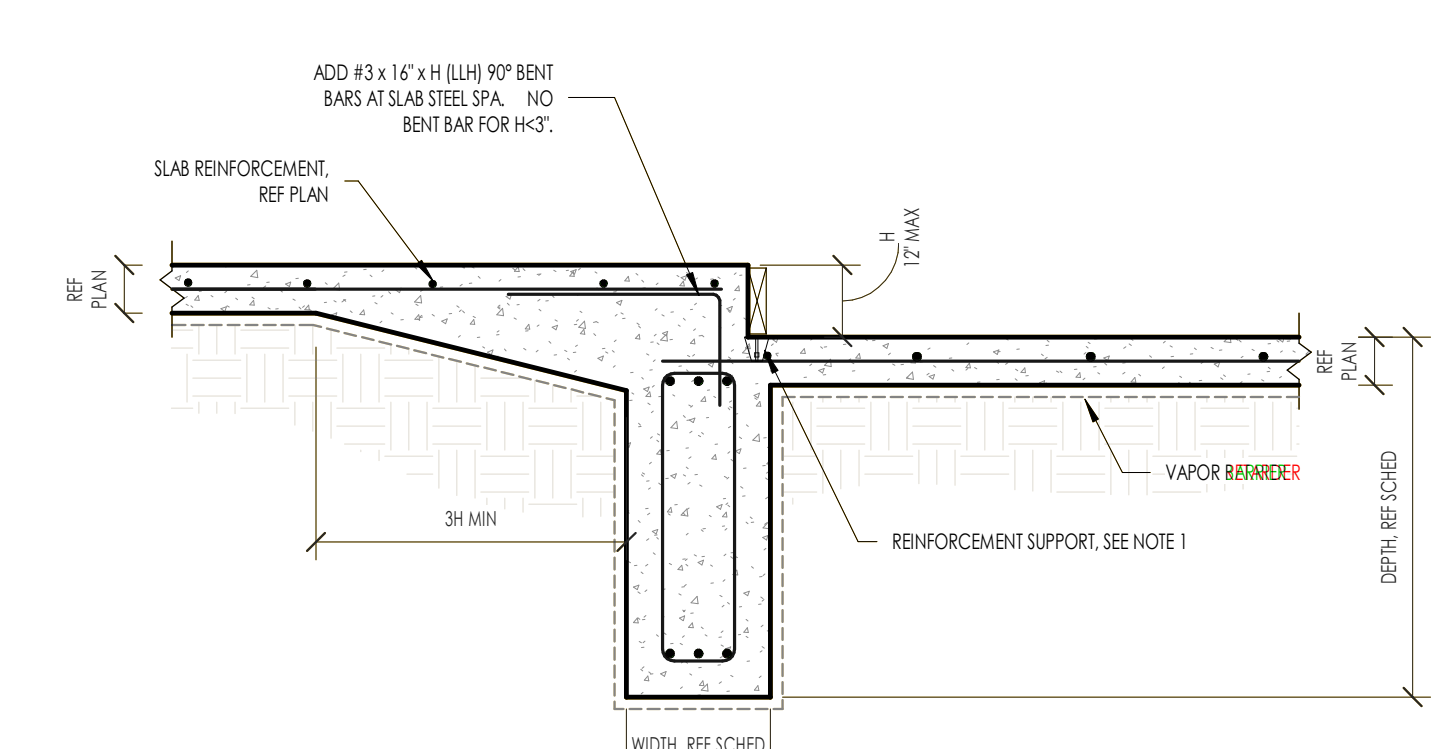
6C TYPICAL INTERIOR BEAM INTERSECTION  
NOT TO SCALE



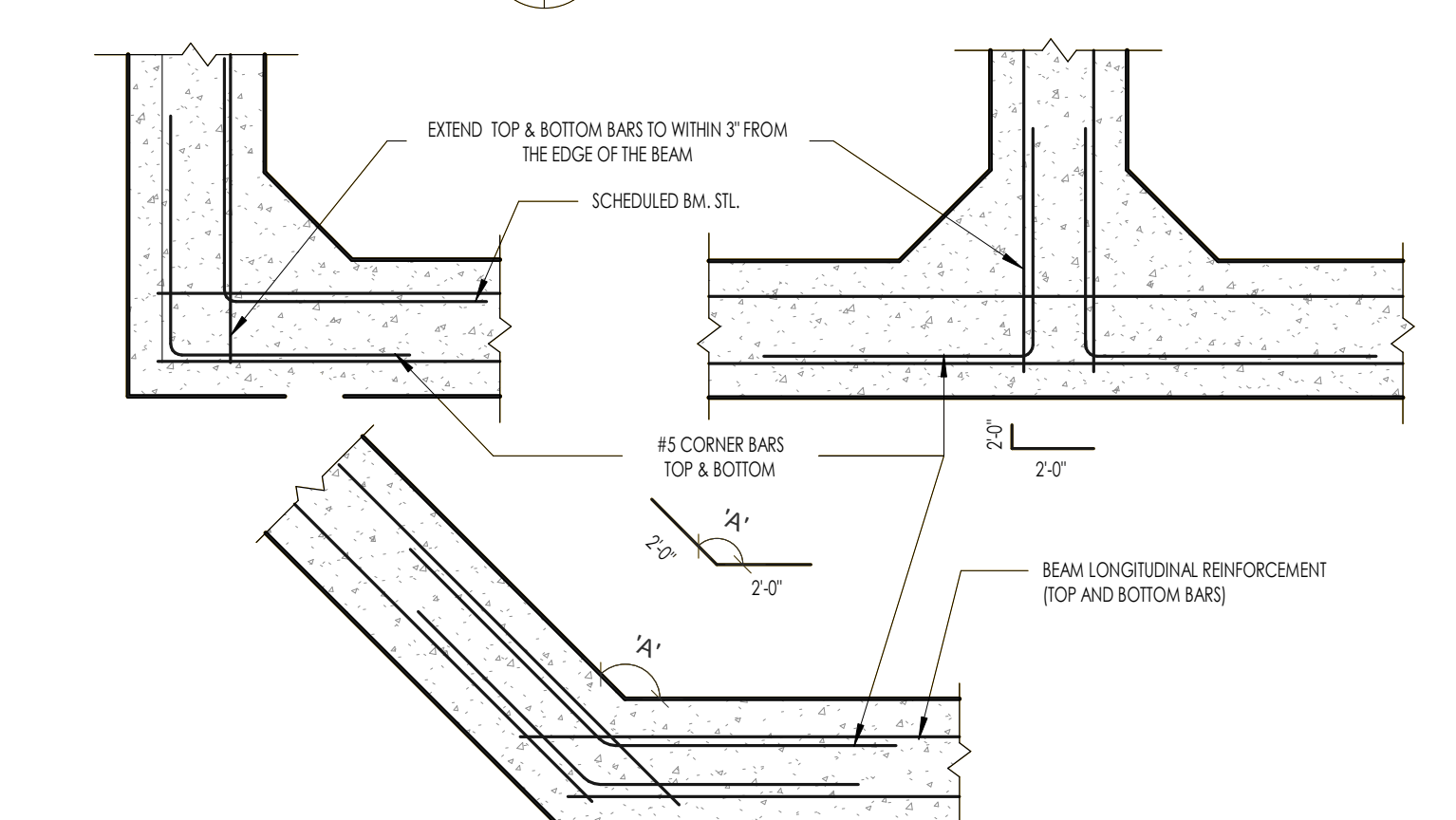
5C TYPICAL SLAB-ON-GRADE SECTION  
NOT TO SCALE



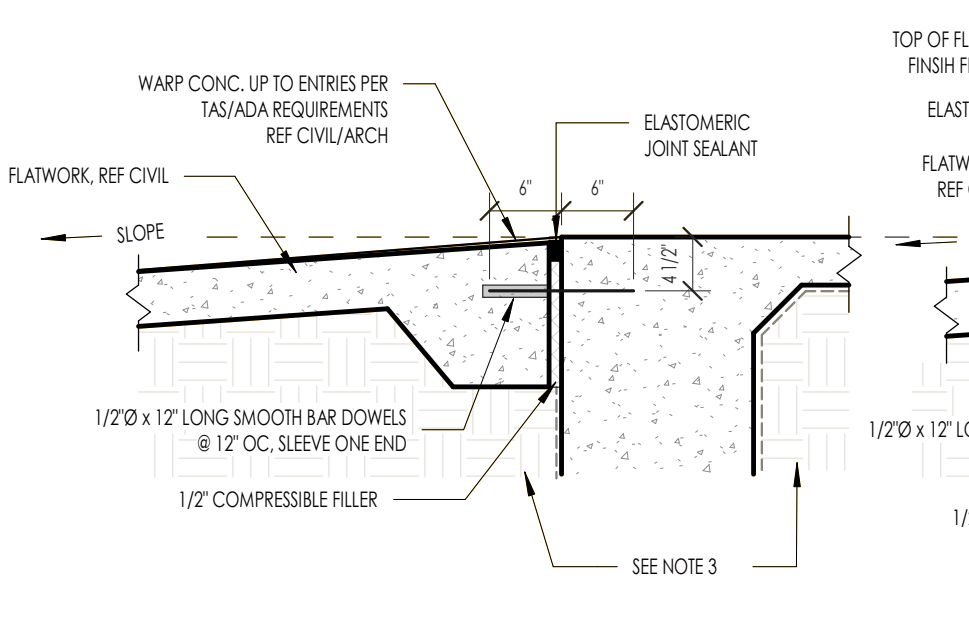
4C TYPICAL REINTEGRANT CORNER BARS  
NOT TO SCALE



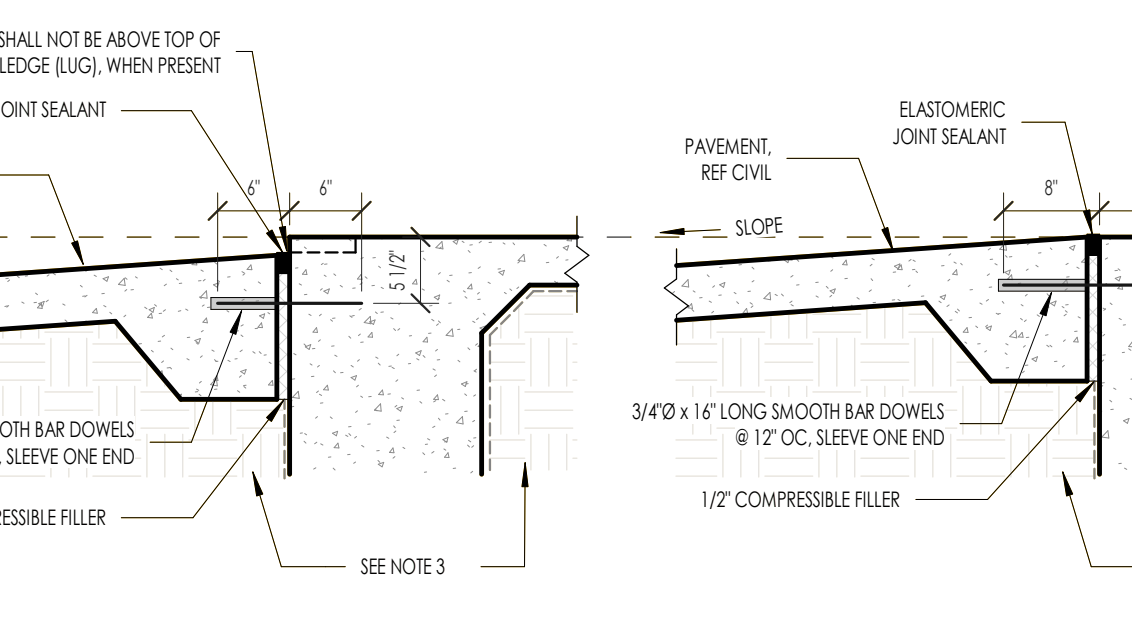
3C TYPICAL SLAB DROP AT GRADE BEAM  
NOT TO SCALE



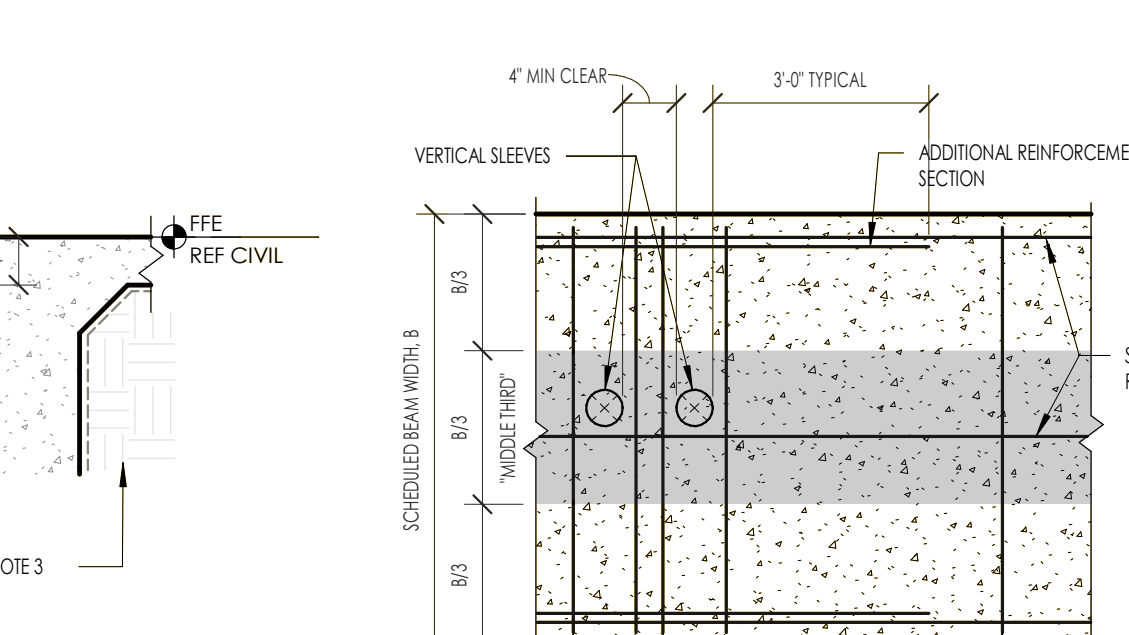
1C TYPICAL CORNER BARS  
NOT TO SCALE



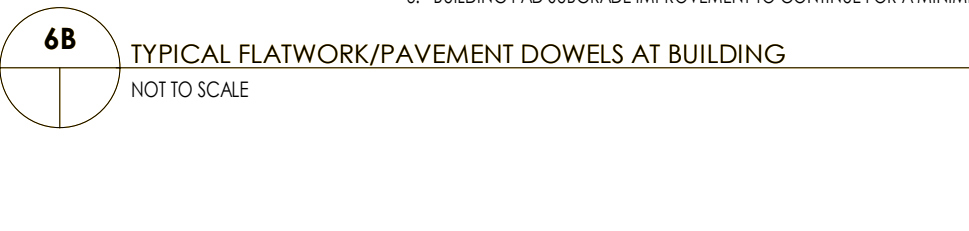
B FLATWORK AT ENTRY DOOR



B FLATWORK NOT AT ENTRY DOOR



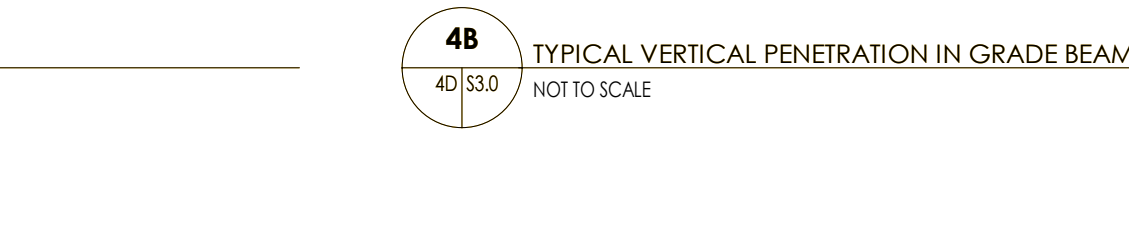
B AT PAVEMENT (DRIVE-IN)



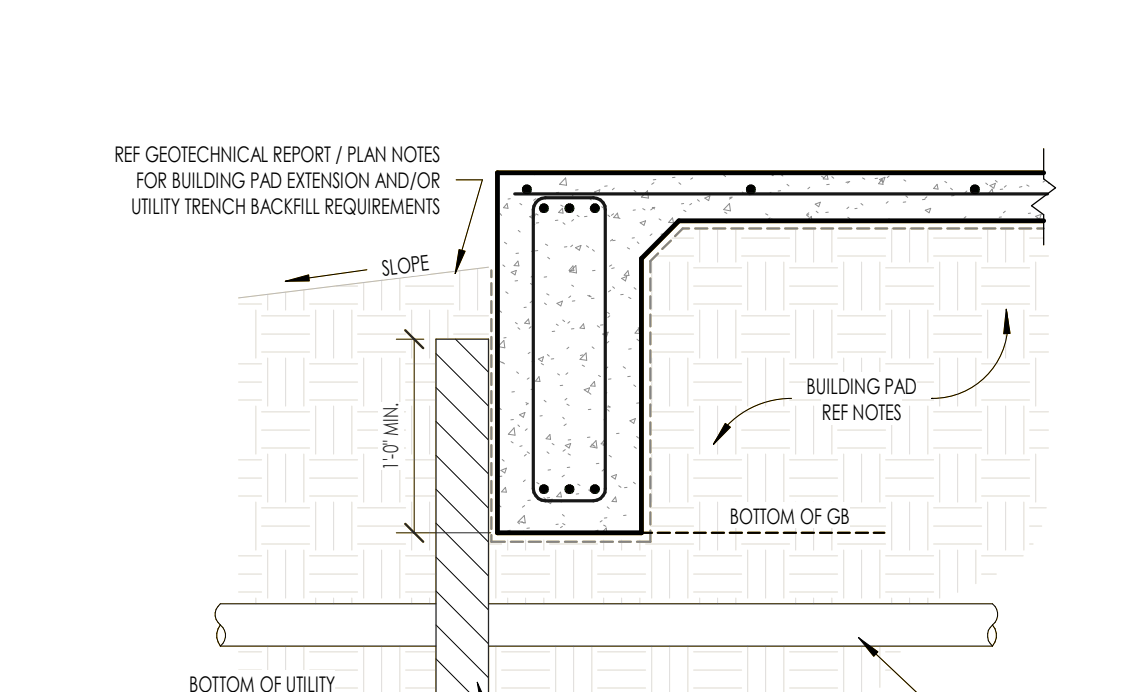
6B TYPICAL FLATWORK/PAVEMENT DOWELS AT BUILDING  
NOT TO SCALE



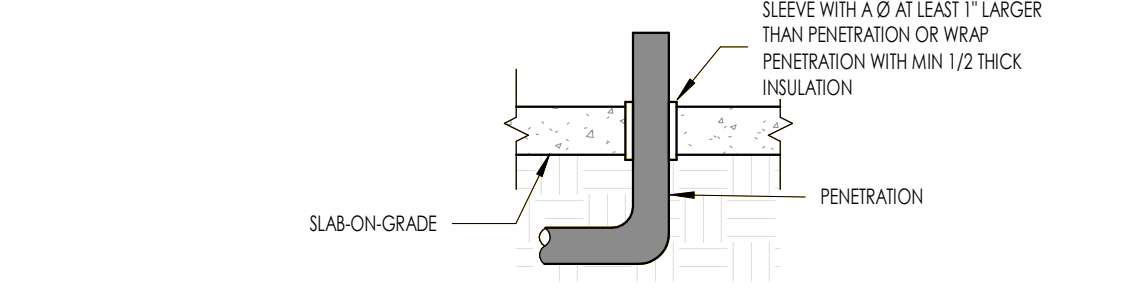
4B TYPICAL VERTICAL PENETRATION IN GRADE BEAM  
NOT TO SCALE



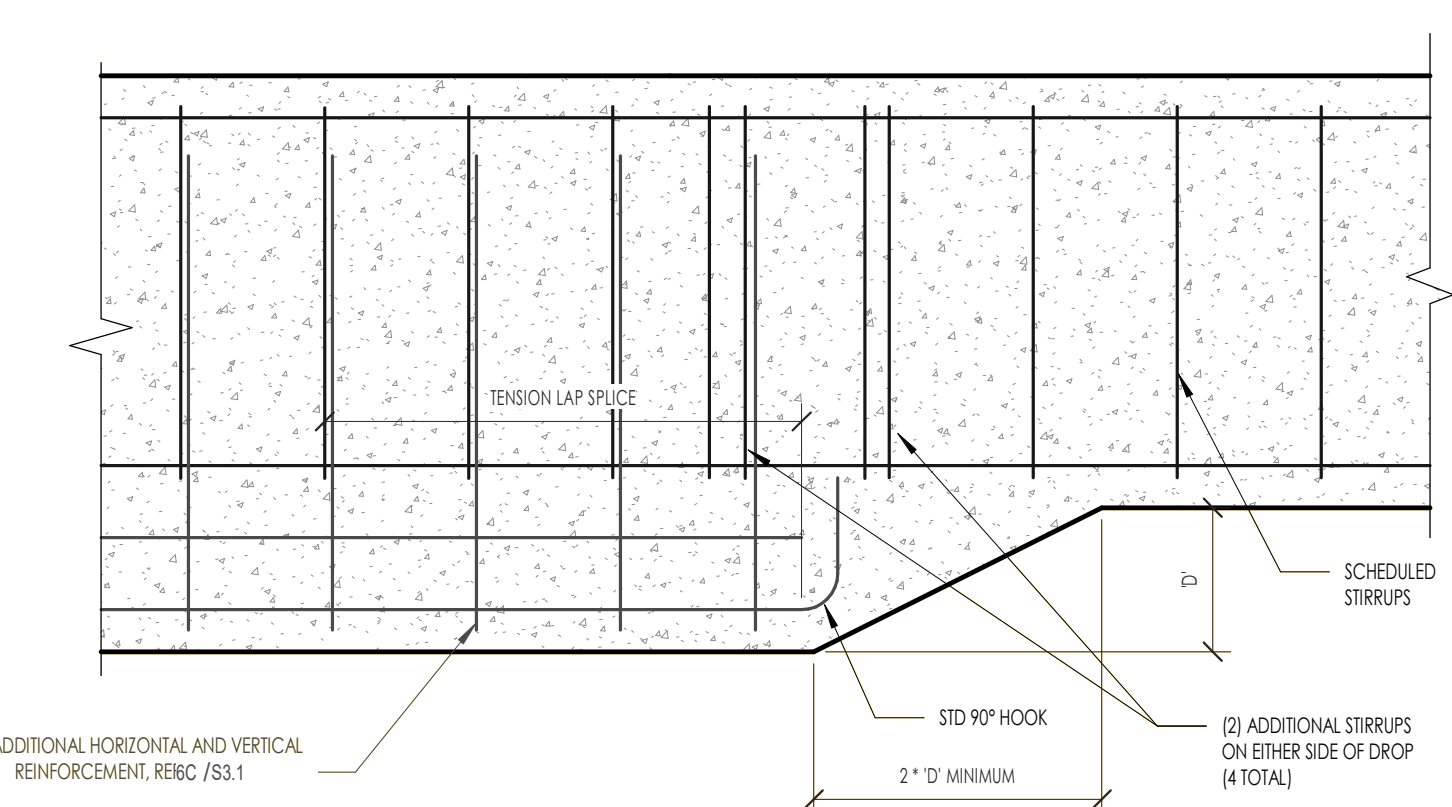
4A TYPICAL HORIZONTAL PENETRATION IN BEAM  
NOT TO SCALE



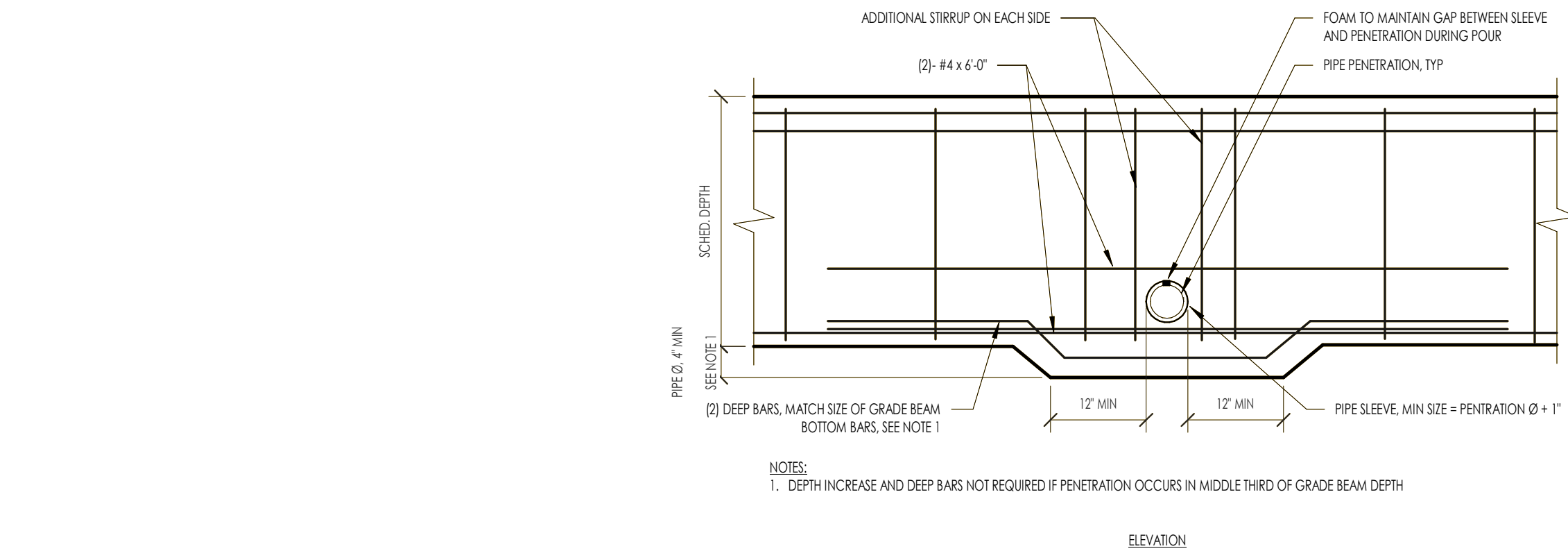
2B TYPICAL UTILITY TRENCH UNDER BUILDING PAD BENTONITE PLUG AT EXTERIOR BEAM.  
NOT TO SCALE



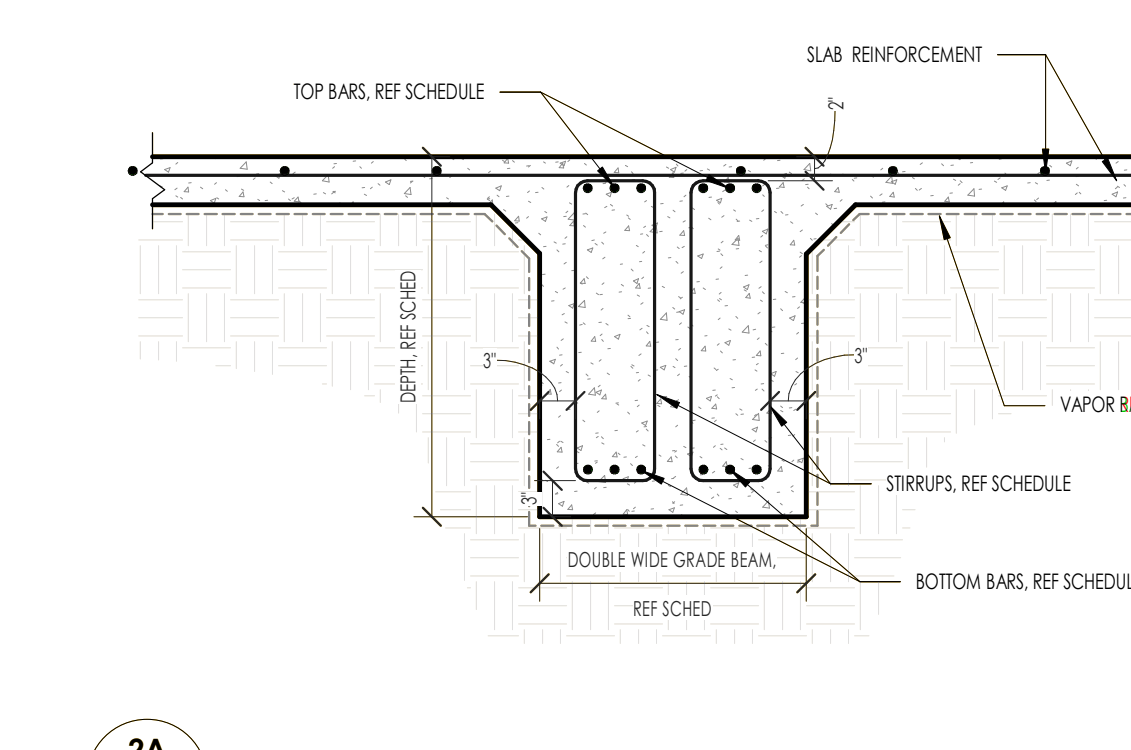
1B VERTICAL PENETRATION THROUGH SLAB-ON-GRADE  
NOT TO SCALE



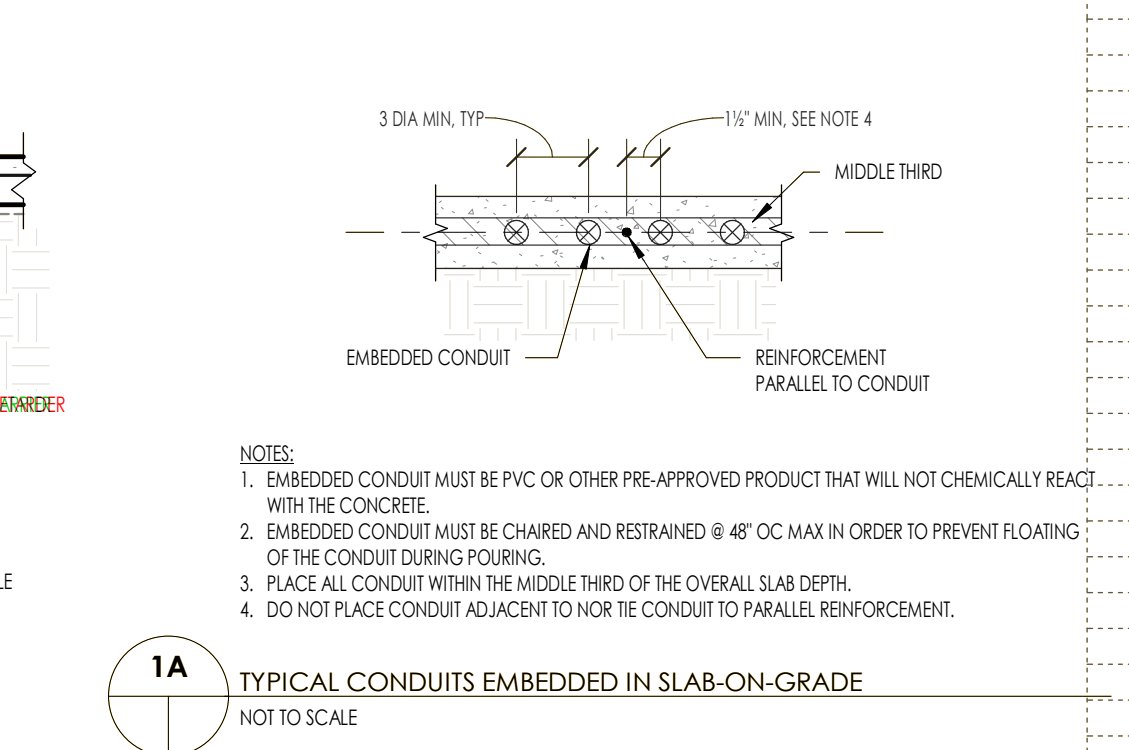
6A TYPICAL DROP TRANSITION IN GRADE BEAM - VERTICAL MOISTURE BARRIER  
NOT TO SCALE



4A TYPICAL HORIZONTAL PENETRATION IN BEAM  
NOT TO SCALE



2A TYPICAL DOUBLE WIDE INTERIOR GRADE BEAM  
NOT TO SCALE



1A TYPICAL CONDUITS EMBEDDED IN SLAB-ON-GRADE  
NOT TO SCALE

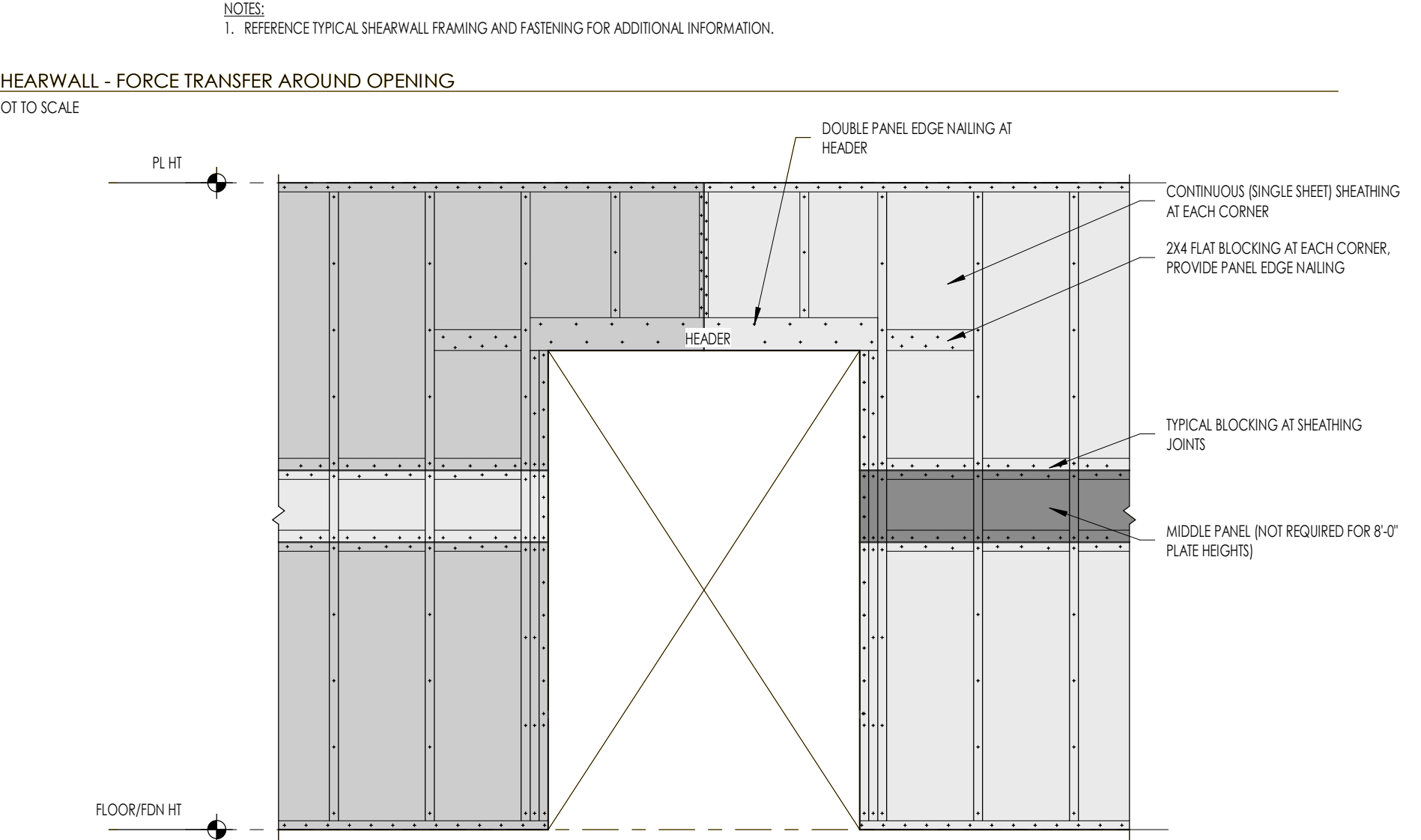
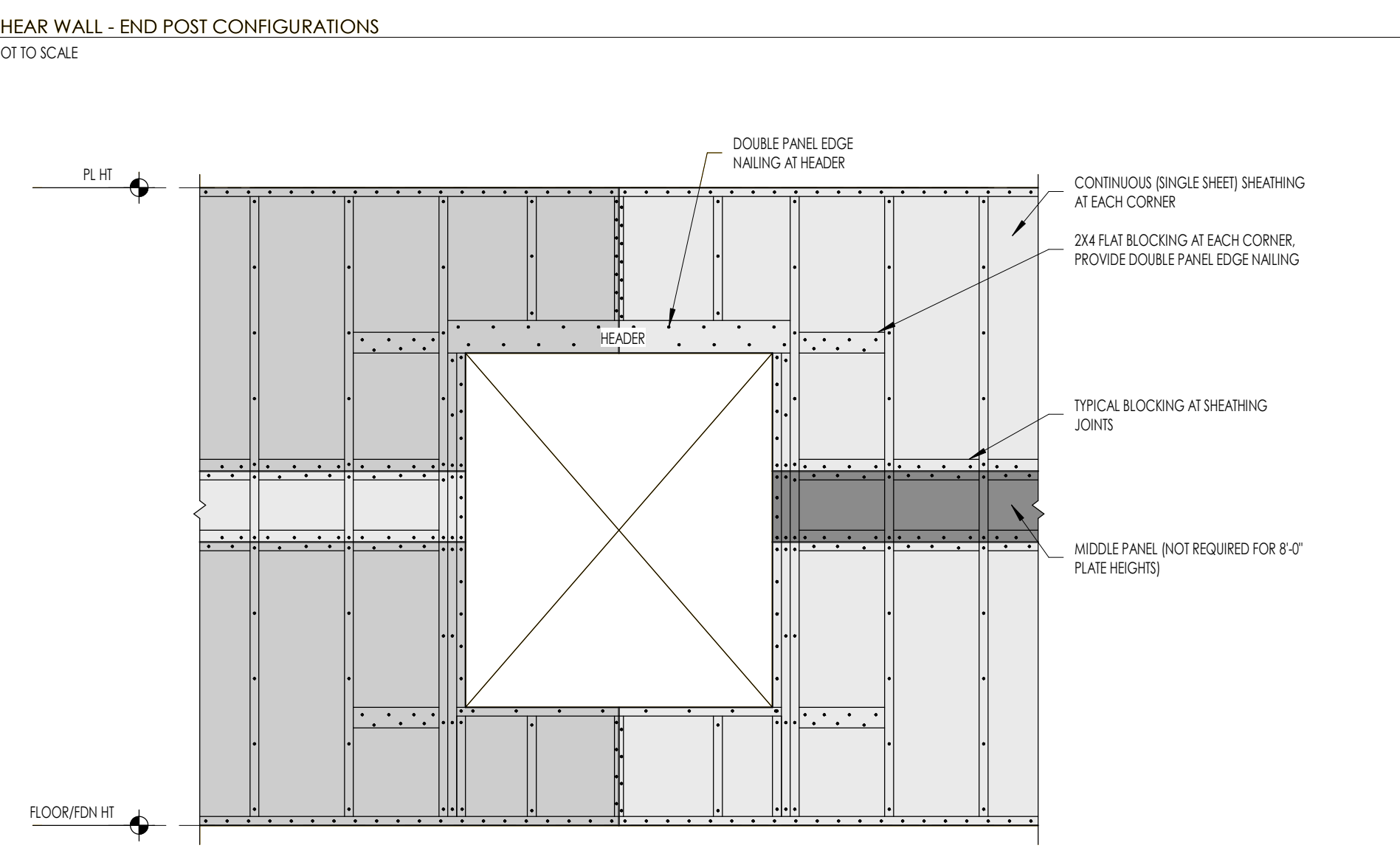
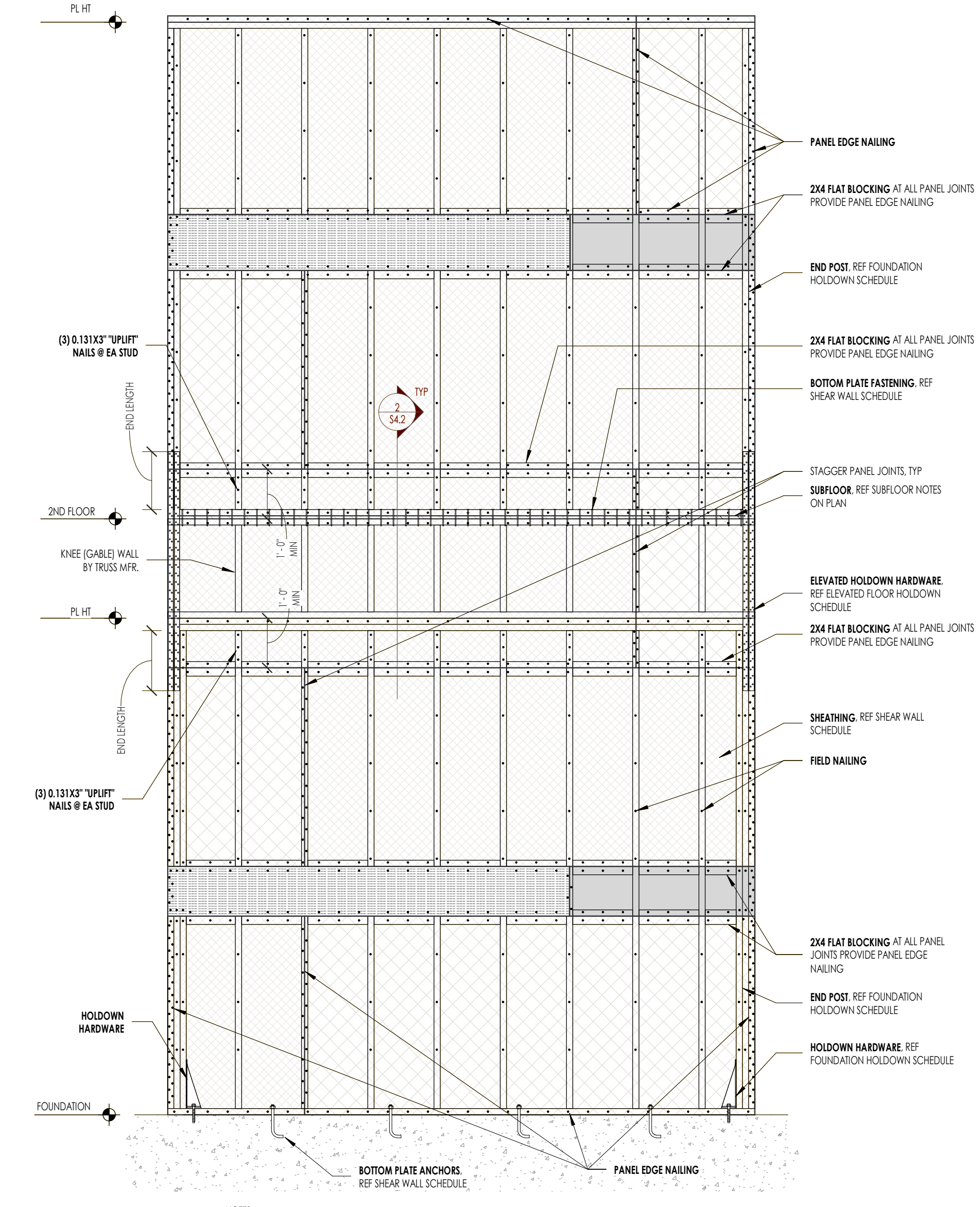
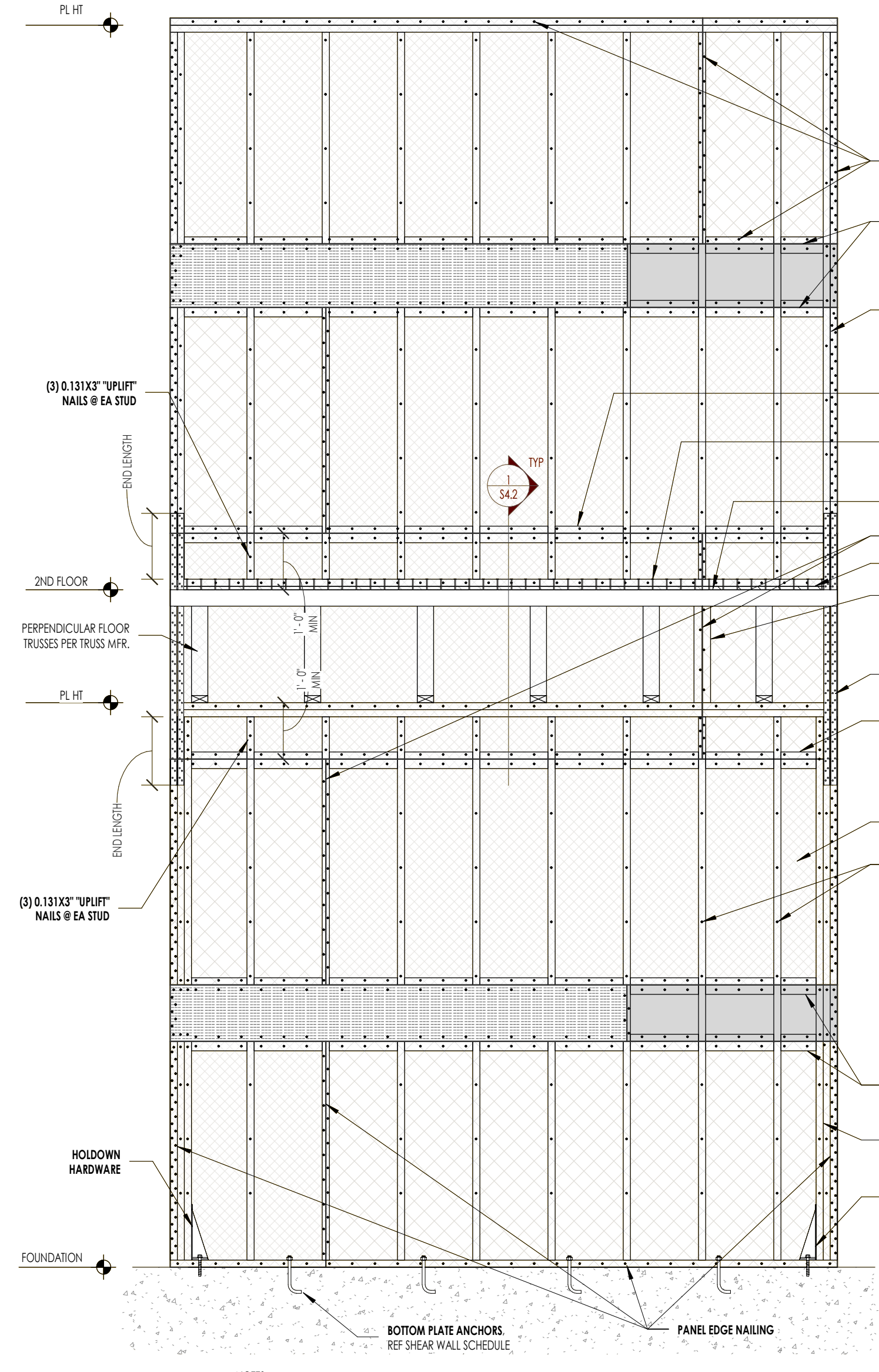
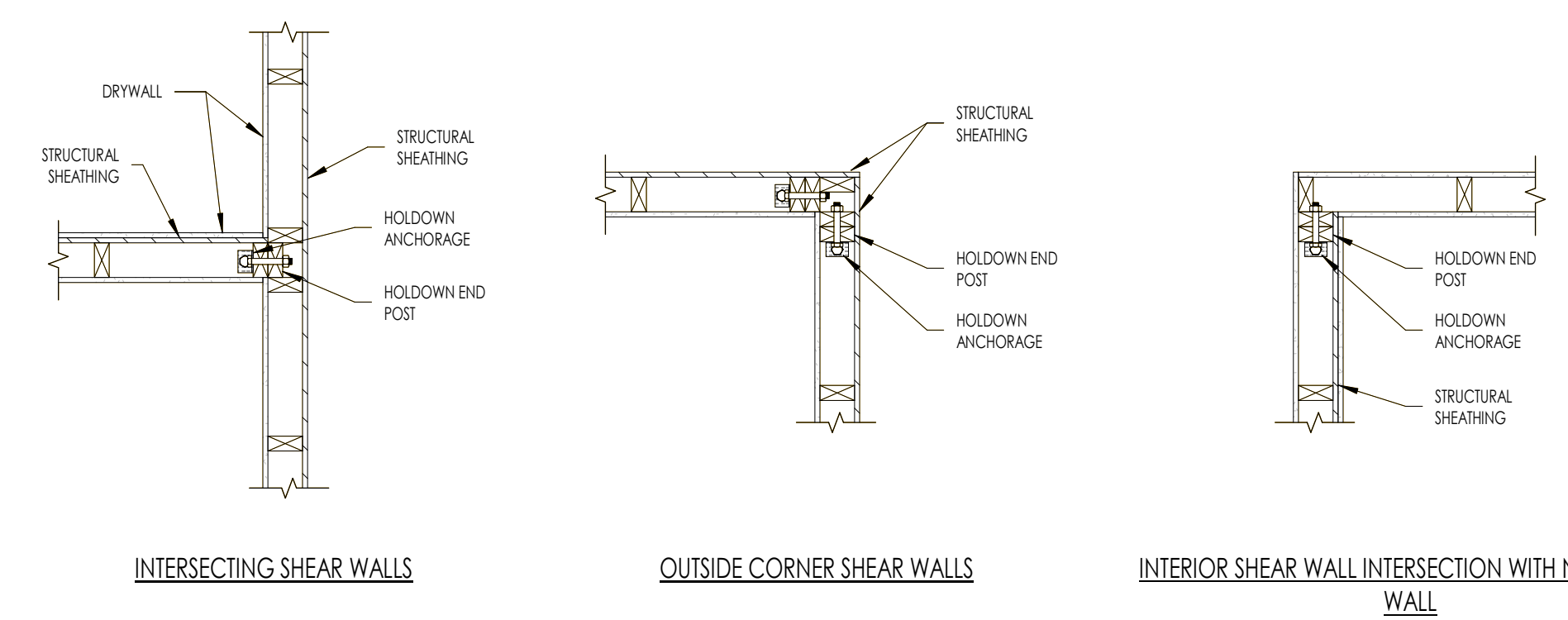
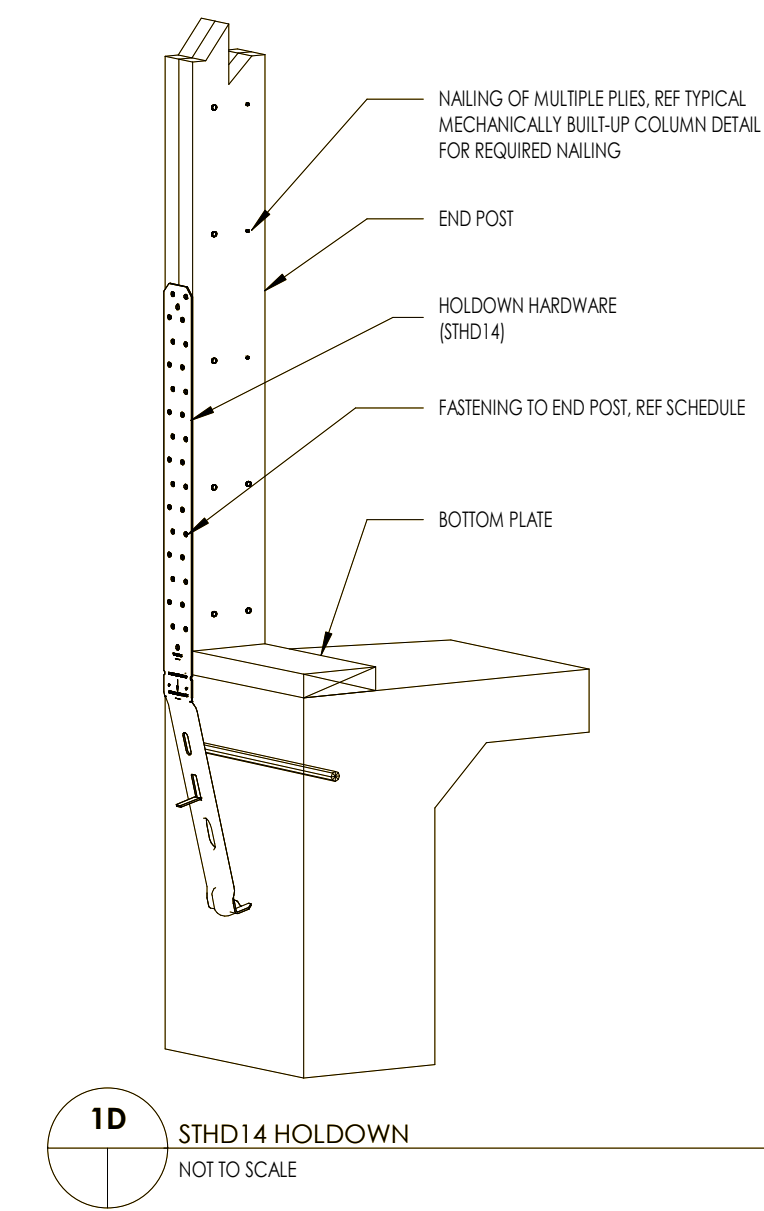
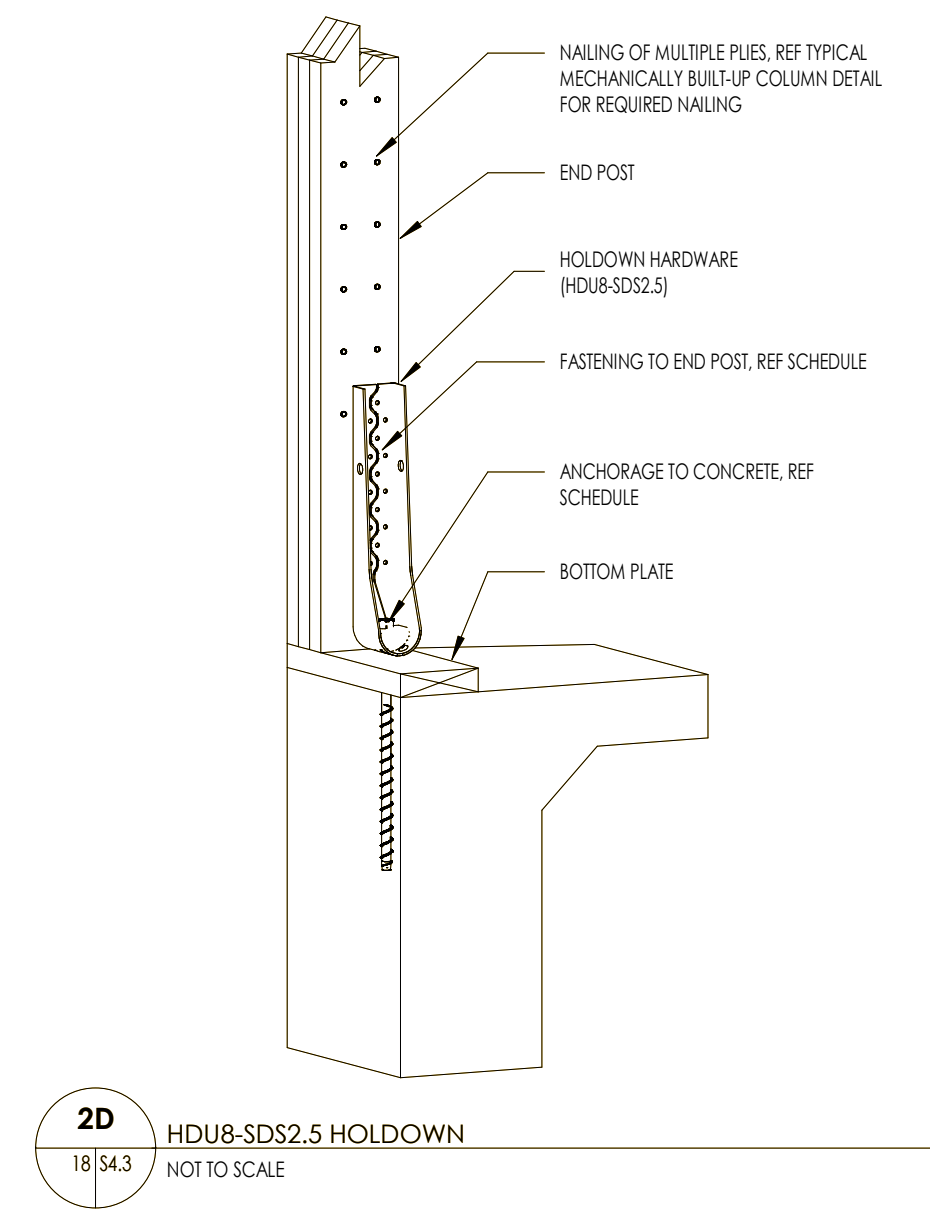
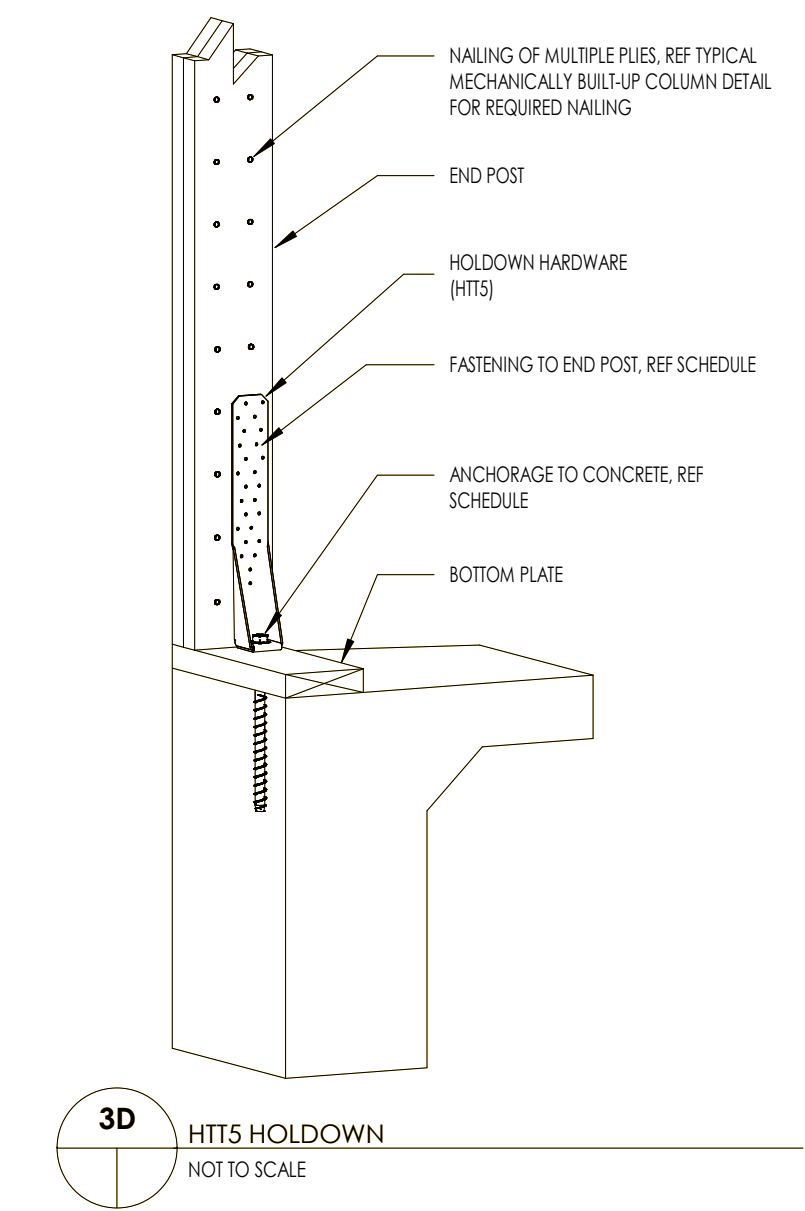
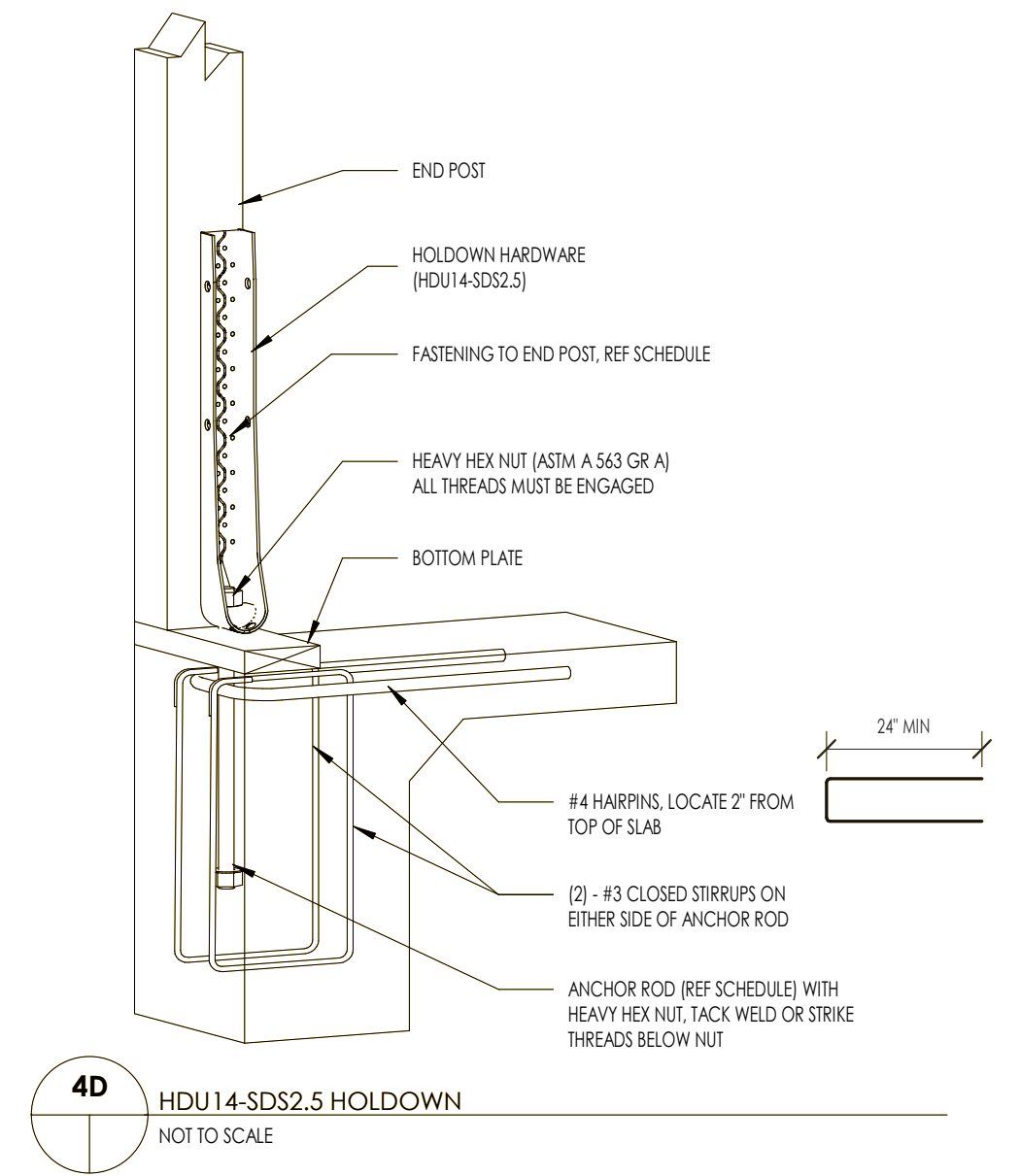
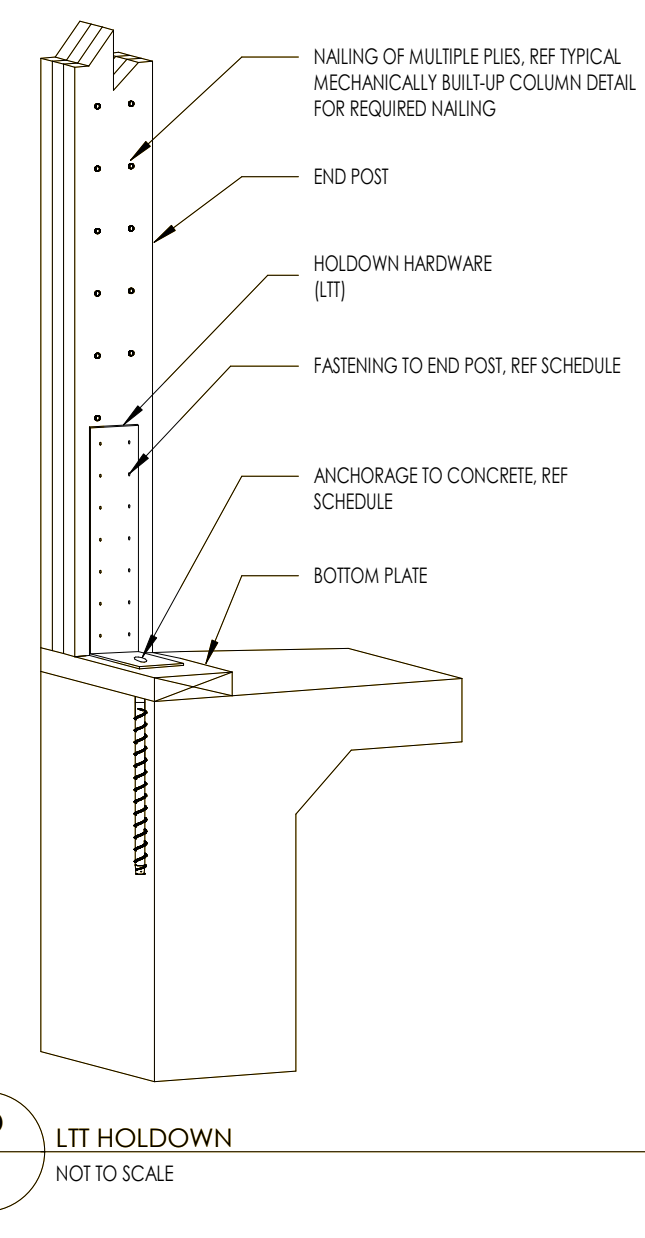








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4A TYPICAL MULTIPLE STORY SHEARWALL FRAMING AND FASTENING, TRUSSES PERPENDICULAR NOT TO SCALE

2A TYPICAL MULTIPLE STORY SHEARWALL FRAMING AND FASTENING, TRUSSES PARALLEL NOT TO SCALE



**RENOVATION**  
DRAWINGS

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**LKB**  
ARCHITECTURE

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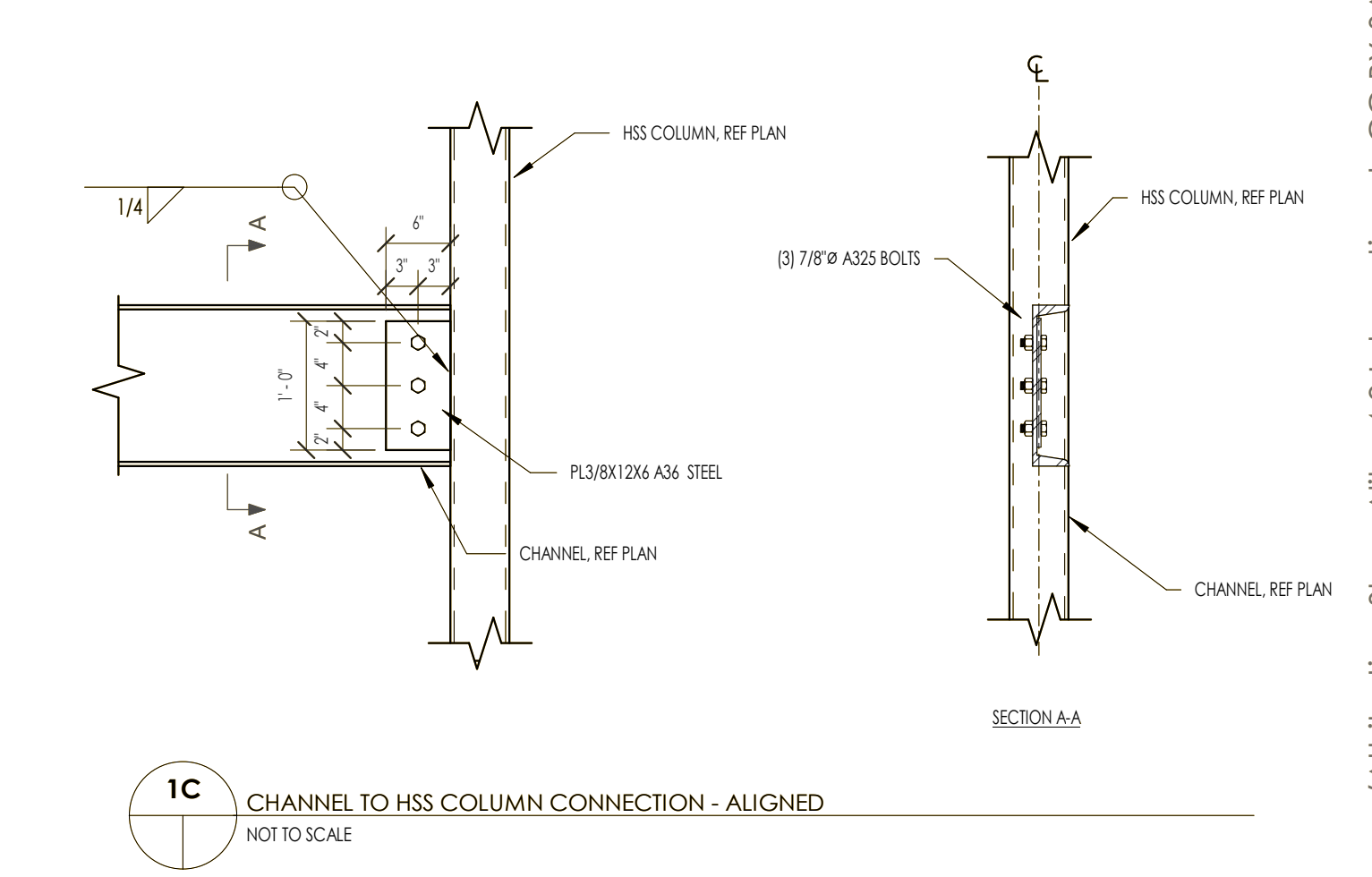
**DUDLEY**  
STRUCTURAL

Structural: Dudley  
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College Station, TX 77845  
(979) 777-0720

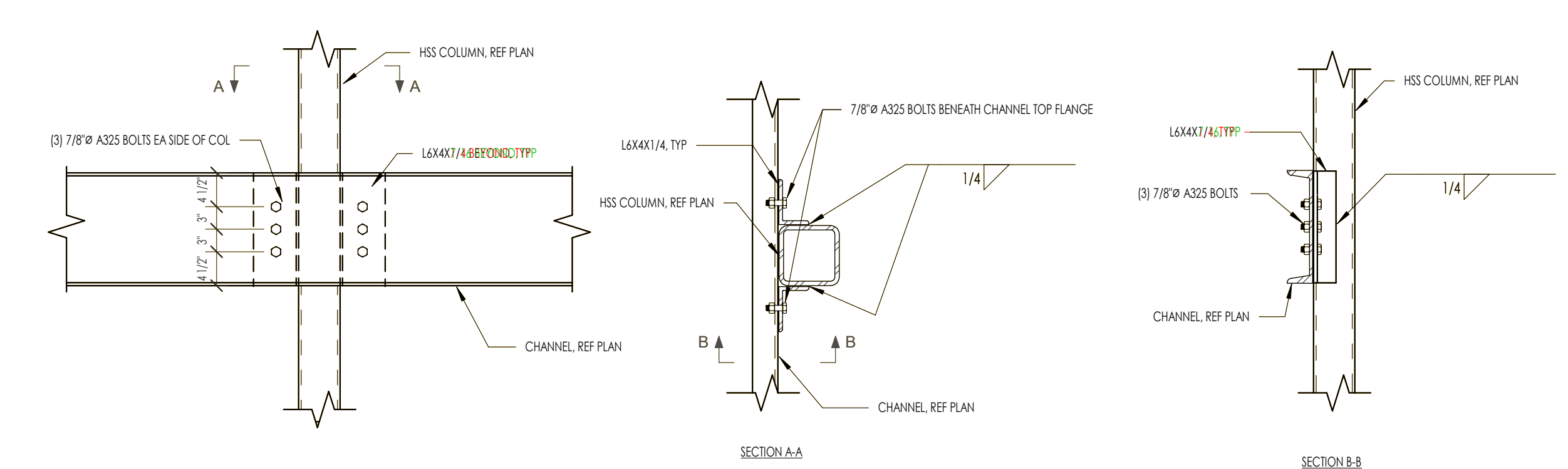
**amc**  
ENGINEERS

MEP: AMC Engineers  
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Burnet, TX 78611  
info@amcengineers.com

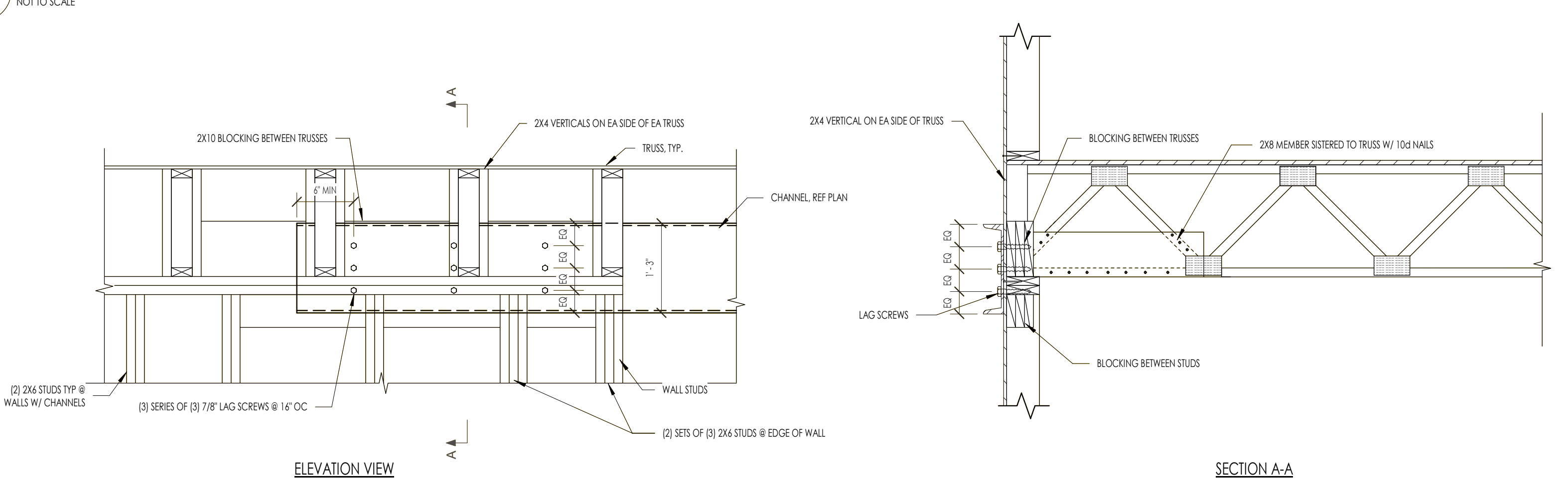
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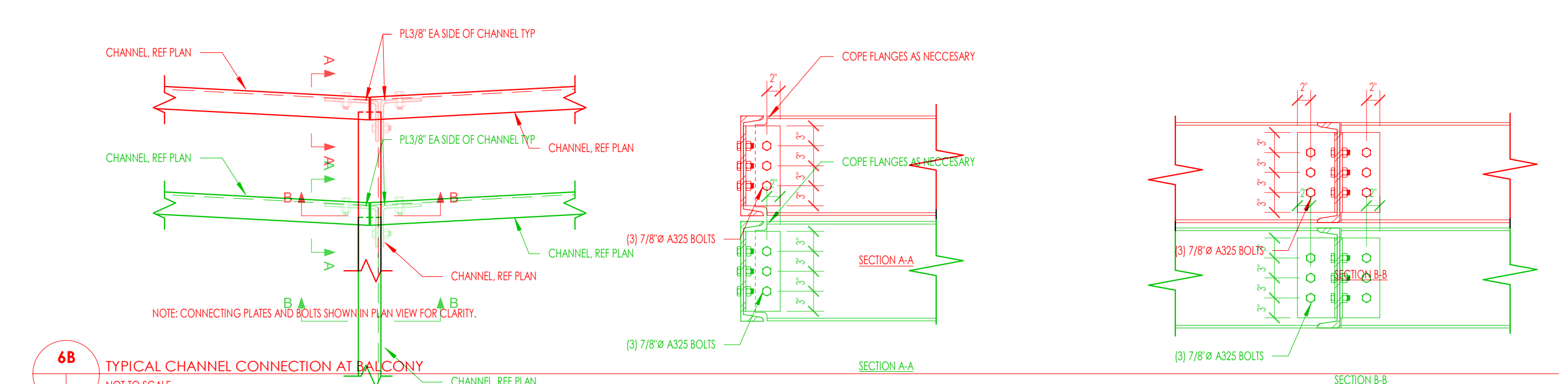
1C CHANNEL TO HSS COLUMN CONNECTION - ALIGNED  
NOT TO SCALE



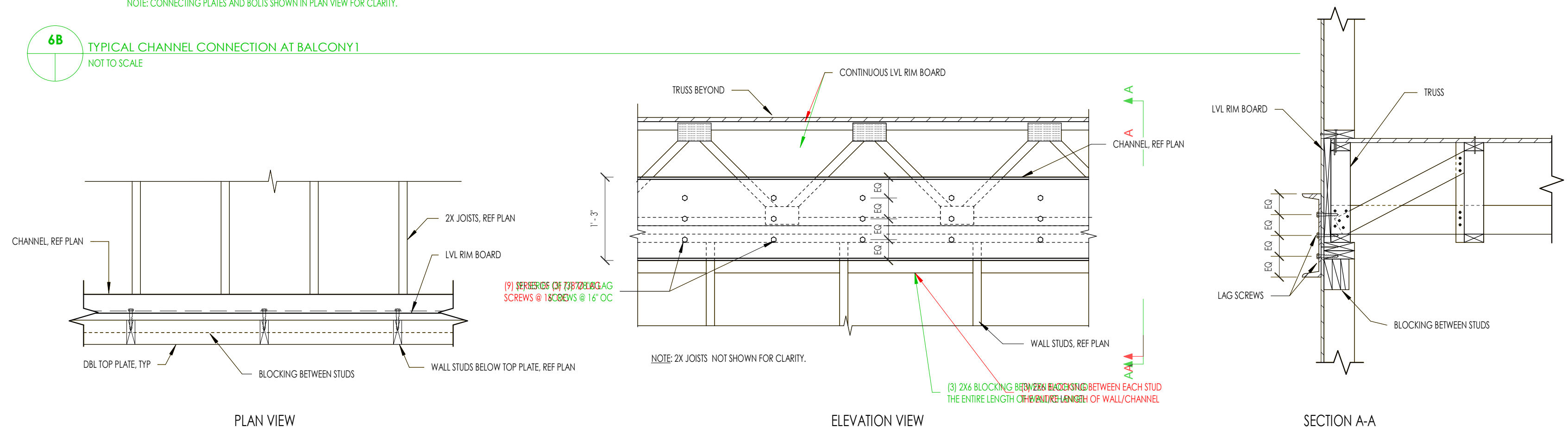
3B CHANNEL TO HSS COLUMN CONNECTION - ECCENTRIC  
NOT TO SCALE



3A TYPICAL CHANNEL TO WALL STUD CONNECTION  
NOT TO SCALE



6B TYPICAL CHANNEL CONNECTION AT BALCONY  
NOT TO SCALE



6A TYPICAL CHANNEL TO WALL STUD CONNECTIONX  
NOT TO SCALE

TYPICAL STEEL DETAILS