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WOOD FRAMING SPECIFICATIONS [06.10.00]
1. WOOD FRAMING SHALL BE DESIGNED BY THE ARCHITECT...
2. STRUCTURAL LUMBER IN PERMANENTLY CONDITIONED SPACE SHALL ADHERE TO THE FOLLOWING SPECIFICATIONS:

WOOD TRUSS SPECIFICATIONS [06.17.00]

1. TRUSS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TPI 1) AND SHALL CONFORM TO THE DESIGN AND MANUFACTURING PRACTICES OF THE TRUSS MANUFACTURER.

WOOD SHRINKAGE

1. REGARDLESS OF THE BUILDING TYPE, BUILDING DESIGNS MUST COMPENSATE FOR THE FACT THAT WOOD SHRINKAGE CONTINUES UNTIL WOOD REACHES EQUILIBRIUM MOISTURE CONTENT (EMC). WHICH AVERAGES 6% OF MOISTURE CONTENT FOR MOST STRUCTURES IN THE U.S.

REINFORCED CONCRETE - 03.30.00

1. GENERAL
A. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 309 SPECIFICATIONS FOR STRUCTURAL CONCRETE AND IN THESE CONSTRUCTION DOCUMENTS.
2. MIX DESIGN
A. ALL CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED REGISTERED ENGINEER...

Table with columns: ELEMENT, Fc, EXPOSURE CATEGORY, MAX CL, MAX FLY ASH, MAX W/C RATIO, MAX COARSE AGG. SIZE, MIN AIR CONTENT

CONCRETE FINISHING AND CURING

1. FINISHING, FINISHING ORDERS AND FINAL FINISHING SHALL BE COMPLETED PRIOR TO THE ACCUMULATION OF BLEED WATER ON THE SURFACE. FINAL FINISHING SHOULD NOT BEGIN UNTIL THE BLEED WATER HAS EVAPORATED AND THE WOOD SHEATHING IS DISAPPROVED FROM THE SURFACE.

CONCRETE CRACKS

1. EVEN WITH PROPER DESIGN AND CONSTRUCTION ALL CONCRETE WILL CRACK. PLASTIC SHRINKAGE CRACKS CONTINUE TO OPEN AS THE SUB AGES UP TO APPROXIMATELY ONE YEAR, AND REACH 50% OF THEIR FINAL SIZE IN APPROXIMATELY 18 MONTHS.

RETEMPERING (ADDING WATER TO CONCRETE ON-SITE)

1. WATER SHALL NOT BE ADDED TO THE MIX TRUCK ON THE JOB SITE IN EXCESS OF THE VOLUME OF WATER THAT IS SPECIFICALLY INDICATED TO HAVE BEEN WITHHELD FROM THE READY MIX SUPPLIER.

FLOOR FLATNESS AND LEVELNESS

Table with columns: CLASSIFICATION, SOR, TYPICAL APPLICATION OF CLASSIFICATION

STRUCTURAL STEEL - 05.10.00

1. GENERAL
A. ALL STRUCTURAL STEEL IS TO BE FABRICATED AND DELIVERED IN ACCORDANCE WITH THE LATEST EDITION OF AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDING.
2. MARKING
A. ALL HOT ROLLED STEEL PLATES, SHAPES AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATIONS AS LISTED.

CONNECTIONS

1. CONNECTION DESIGN: ALL STEEL CONNECTIONS NOT FULLY DETAILED WITHIN THESE DRAWINGS SHALL BE DESIGNED BY A CONNECTION ENGINEER TO BE HIRED BY THE CONTRACTOR.

DRAWING INTERPRETATION:

- 1. DRAWING VIEWS LABELED AS SUCH:
A. PARTIAL PLANE SECTIONS, DETAIL OR SCHEDULES LABELED WITH 'TYPICAL' AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE ROSE SPECIFICALLY SHOWN.

REINFORCING STEEL - 03.20.00

1. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE ACI DETAILING MANUAL, ACI 315 AND 318 (ACI DETAILING HANDBOOK).
2. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A618, GRADE 60, WITH SUPPLEMENTARY REQUIREMENTS.

STRUCTURAL DEFERRED SUBMITTALS:

- 1. STRUCTURAL DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH REQUIRE STRUCTURAL ENGINEERING THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION BUT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL AT A LATER DATE.

GENERAL CONDITIONS

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

CONTRACTOR QUALIFICATION

1. WORK SHALL BE PERFORMED BY A QUALIFIED REGISTERED CONTRACTOR AND SUBCONTRACTOR EXPERIENCED IN THIS TYPE OF WORK. SUCH KNOWLEDGE SHALL INCLUDE MAINTENANCE RECORDS FOR PERFORMING WORK OF THIS NATURE FOLLOWING INDUSTRY STANDARDS OF CARE.

FUTURE EXPANSION

1. NO PROVISIONS FOR ANY FUTURE EXPANSION HAVE BEEN MADE IN THE STRUCTURAL DESIGN.

SUBSTITUTIONS:

1. ALL REQUESTS FOR SUBSTITUTIONS OF MATERIALS OR DETAILS SHOWN IN THE CONTRACT DOCUMENTS SHALL BE SUBMITTED FOR APPROVAL DURING THE BIDDING PERIOD. ONCE BIDS ARE ACCEPTED, PROPOSED SUBSTITUTIONS WILL BE CONSIDERED ONLY WHEN THEY ARE OFFICIALLY SUBMITTED WITH AN IDENTIFIED SUBMITTER TO BE DEDUCTED FROM THE CONTRACT.

REQUEST FOR INFORMATION (RFI)

- 1. RFIs MUST INCLUDE A TRANSMITTAL SHEET THAT INDICATES THE FOLLOWING:
A. RFI NUMBER
B. RFI CATEGORY
C. REQUEST FOR SUBSTITUTION
D. CORRECTIVE REPAIR
E. ADDITIONAL INFORMATION REQUIRED

SUBMITTALS

1. SUBMITTAL LIST AND SCHEDULE
A. THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL DESIGNER TEAM TO THE START OF CONSTRUCTION. THIS LIST SHALL BE UPDATED AND REVISED AS THE JOB PROGRESSES.

INSPECTIONS:

1. CONSTRUCTION OR WORK FOR WHICH A PERMIT IS REQUIRED SHALL BE SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL, AND SUCH CONSTRUCTION OR WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED. REQUIRED TESTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
A. FOUNDATION INSPECTION
B. FOOTING AND FOUNDATION INSPECTION

DRAWING INTERPRETATION:

- 1. DRAWING VIEWS LABELED AS SUCH:
A. PARTIAL PLANE SECTIONS, DETAIL OR SCHEDULES LABELED WITH 'TYPICAL' AT THE BEGINNING OF THEIR TITLE SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE ROSE SPECIFICALLY SHOWN.

REINFORCING STEEL - 03.20.00

1. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE ACI DETAILING MANUAL, ACI 315 AND 318 (ACI DETAILING HANDBOOK).
2. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A618, GRADE 60, WITH SUPPLEMENTARY REQUIREMENTS.

DESIGN CRITERIA

- 1. THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS FROM THE AUTHORITY HAVING JURISDICTION.
A. BUILDING CODE VERSION: 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS
B. AUTHORITY HAVING JURISDICTION: SUPERIOR COLLEGE DISTRICT
C. RISK CATEGORY: II

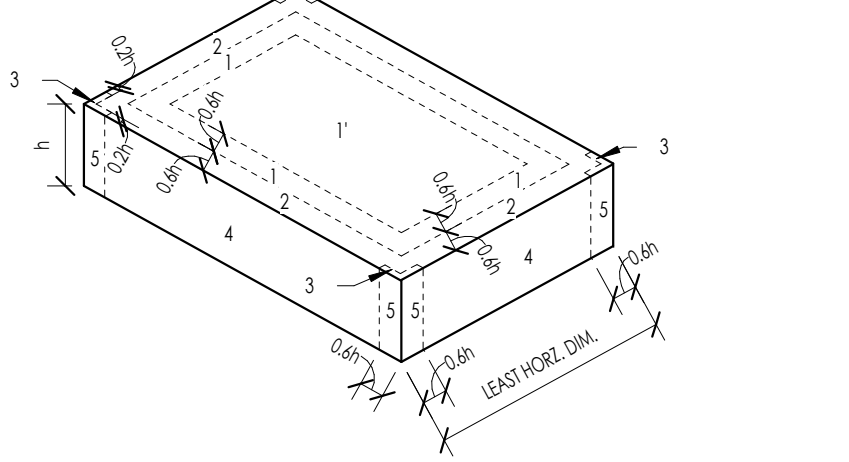
Table with columns: CATEGORY, VALUE

C&C - GROSS ULTIMATE WIND PRESSURES

Table with columns: CLADDING TYPE, LOCATION, EFFECTIVE AREA, WIND PRESSURES

Table with columns: CLADDING TYPE, LOCATION, EFFECTIVE AREA, WIND PRESSURES

Table with columns: CLADDING TYPE, LOCATION, EFFECTIVE AREA, WIND PRESSURES



FOUNDATION DESIGN CRITERIA

1. GEOTECHNICAL REPORT: THIS FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS PROVIDED IN SITE-SPECIFIC GEOTECHNICAL REPORT. IN DESIGNING THE FOUNDATION FOR THE PROPOSED STRUCTURE, THE FOUNDATION DESIGN ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE GEOTECHNICAL ENGINEER'S REPORT OR ANY INFORMATION CONTAINED THEREIN.

LATERAL LOAD RESISTING SYSTEM

- 1. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IS PROVIDED EXCLUSIVELY BY VERTICAL LATERAL LOAD RESISTING SYSTEM, THE HORIZONTAL DAMPBRAKES, DIAPHRAGMS, THE LABRA, WHO AND SEISMIC FORCES HORIZONTALLY TO THE VERTICAL LATERAL LOAD RESISTING SYSTEM.

STAIR, HANDRAILS, RESTROOM ACCESSORIES AND GUARDRAIL SPECIFICATIONS:

- 1. ALL STAIRS, GUARDRAILS AND HANDRAILS SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER BASED ON THE FOLLOWING DESIGN CRITERIA:
A. STAIRS
B. STAIR STRINGERS, TREADS AND RISERS SHALL BE DESIGNED TO SUPPORT 100 PSF LIVE LOAD.

REINFORCING STEEL - 03.20.00

1. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE ACI DETAILING MANUAL, ACI 315 AND 318 (ACI DETAILING HANDBOOK).
2. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A618, GRADE 60, WITH SUPPLEMENTARY REQUIREMENTS.

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS & TESTING

- 1. SPECIAL INSPECTIONS AND STRUCTURAL TESTING SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER... 2. THE NAMES AND CREDENTIALS OF THE SPECIAL INSPECTORS TO BE USED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL... 3. DATES OF THE SPECIAL INSPECTION... 4. DUES AND RESPONSIBILITIES OF THE CONTRACTOR...

WIND-RESISTING COMPONENTS (7703.1.1.3)

- 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 SHALL BE PERIODICALLY INSPECTED AND ADJUSTED AS PART OF THE BUILDING'S MAINTENANCE PROGRAM, PLUMBING LEAK "HYDROSTATIC" TEST PERFORMED BY A LICENSED PLUMBER...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY, VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIALS, PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Rows include: PREFABRICATED WOOD STRUCTURAL ELEMENTS (METAL PLATE CONNECTED WOOD TRUSSES), HIGH-LOAD DIAPHRAGMS, METAL PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FT OR GREATER, INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS WITHIN THE SEISMIC / MAIN WIND FORCE RESISTING SYSTEM...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: STRUCTURAL STEEL - GENERAL. Rows include: WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE, MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE, MATERIAL IDENTIFICATION (MPE / GRADE)...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: STRUCTURAL STEEL - ANCHOR RODS / EMBEDDED PLATES. Rows include: WELDING PROCEDURE SPECIFICATION (WPS) AVAILABLE, MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: STRUCTURAL STEEL - WELDS. Rows include: WPS FOLLOWED, CONTROL AND HANDLING OF WELDING CONSUMABLES, NO WELDING OVER CRACKED TACK WELDS, ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE)...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: INSPECTION TASKS DURING WELDING (ASCC 340 TABLE N6.4.2). Rows include: WELDS CLEANED, SIZE, LENGTH AND LOCATION OF WELDS, WELDS MEET VISUAL ACCEPTANCE CRITERIA, CRACK PREVENTION, WELD / BASE-METAL FUSION, CENTER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: NON-DESTRUCTIVE TESTING OF WELDED JOINTS. 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... PARTIAL JOINT PENETRATION (PJP) WELDS INCLUDING FLARE BEVEL WELDS...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: COMPLETE JOINT PENETRATION (CJP) WELDS. Rows include: ALL CJP WELDS EXCEEDING 5/16" THICKNESS SHALL BE 100% UT TESTED PER AWS D1.1 CLAUSE 6 PART 1, PERIODIC MT TESTING OF REPRESENTATIVE CJP WELDS 5/16" AND LESS BUT NEED NOT EXCEED 10% OF ALL SUCH WELDS...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: STRUCTURAL STEEL HIGH-STRENGTH BOLTS (TURN-OF-NUT). Rows include: TABLE 8.2: NUT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT PRETENSIONING, NUT ROTATION IS RELATIVE TO BOLT REGARDLESS OF THE ELEMENT (NUT OR BOLT) BEING TURNED...

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: STRUCTURAL STEEL HIGH-STRENGTH BOLTS (ENUG-TIGHT) - INSPECTION TASKS PRIOR TO BOLTING. Rows include: DOCUMENTATION AND ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

Table with 4 columns: VERIFICATION AND INSPECTION, CONTINUOUS, PERIODIC, REQUIRED. Section: STRUCTURAL STEEL HIGH-STRENGTH BOLTS (ENUG-TIGHT) - INSPECTION TASKS DURING BOLTING. Rows include: DOCUMENTATION AND ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.

RENOVATION Wranglers ARCHITECTURE Architect of Record: LKB Architecture 2929 Allen Pkwy Suite 200 Houston, TX 77019 isa@lkbarchitecture.com | 713.425.3076

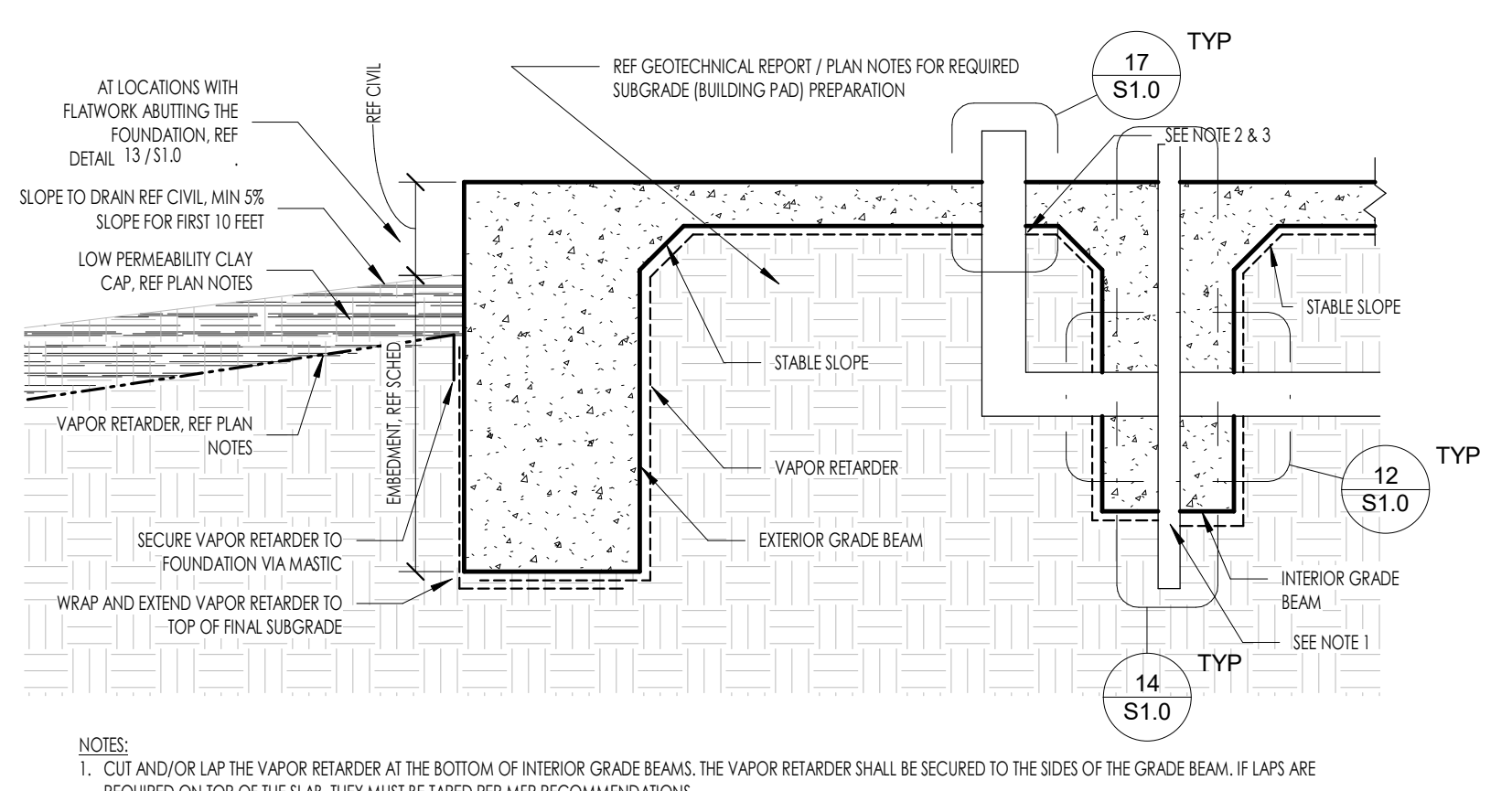
DUDDLEY Structural: Dudley 4102 Imperial Loop Drive College Station, TX 77845 (979) 777-0720

amc ENGINEERS MEP: AMC Engineers 508 E Jackson St # 552 Burnet, TX 78611 info@amcengineers.com

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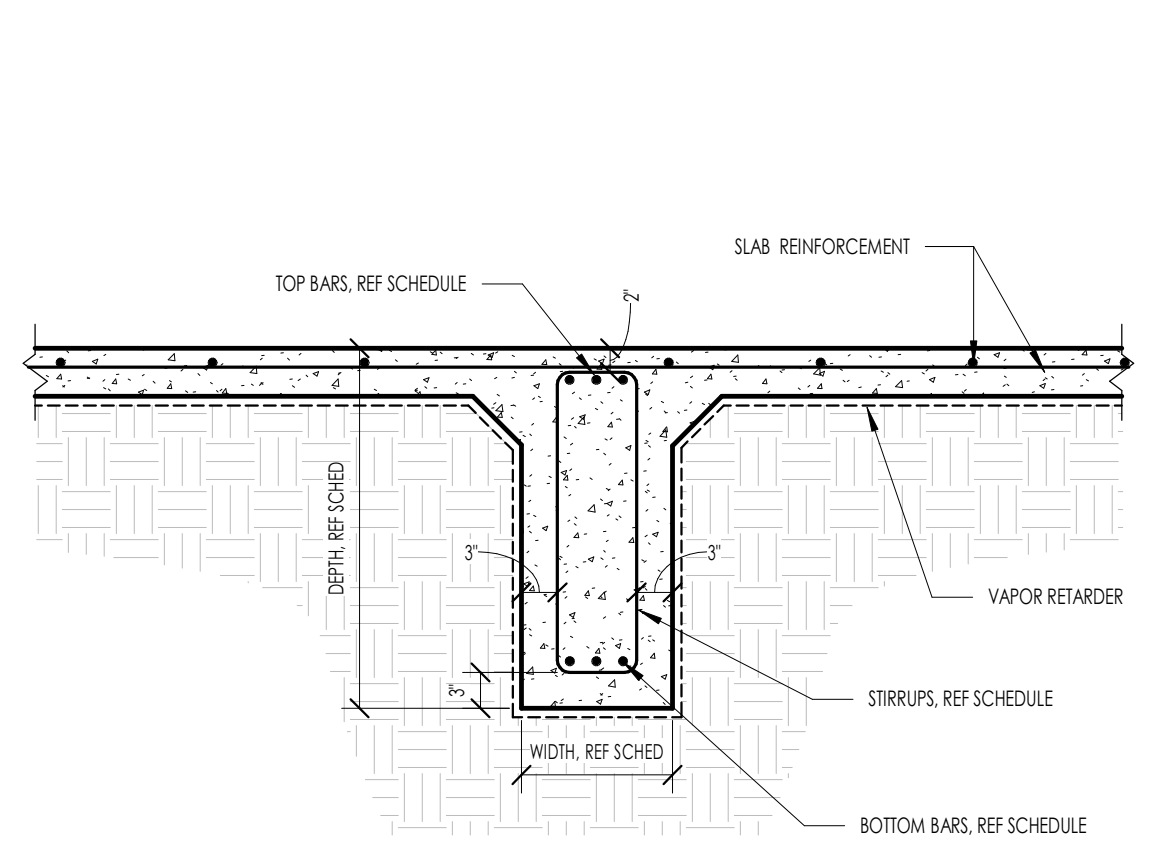
openingdesign Architect: OpeningDesign 17 S Fairchild | FL 7 Madison, WI 53703 ryan@openingdesign.com | 773.425.6456

Table with 2 columns: Date, Description. Multiple empty rows for recording inspection dates and descriptions.

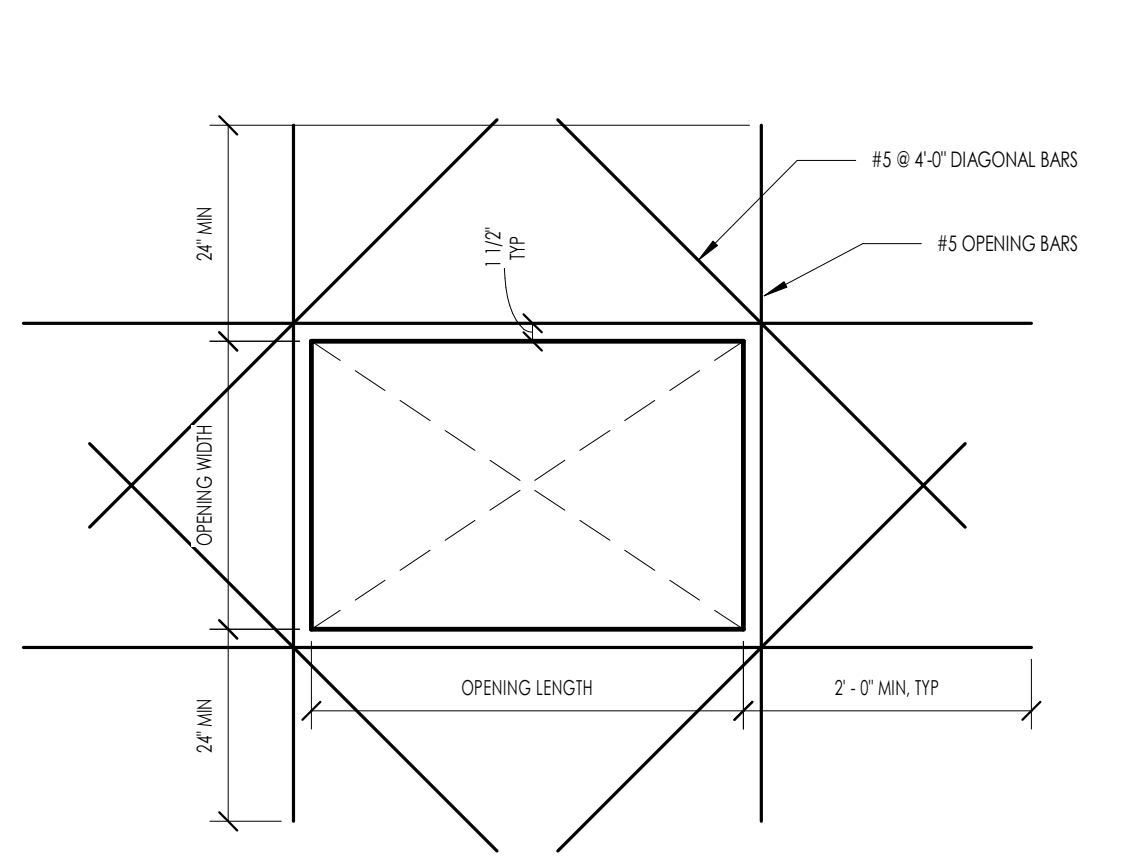


- NOTES:
- CUT AND/OR LAP THE VAPOR RETARDER AT THE BOTTOM OF INTERIOR GRADE BEAMS. THE VAPOR RETARDER SHALL BE SECURED TO THE SIDES OF THE GRADE BEAM. IF LAPS ARE REQUIRED ON TOP OF THE SLAB, THEY MUST BE TAPED PER MFR RECOMMENDATIONS.
 - ALL PIPE, EXISTING REBAR, WIRE REINFORCEMENTS AND BLOCK OUTS SHOULD BE SEALED USING MFR RECOMMENDED WHP, TAPE AND/OR MASTIC.
 - 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 MFR RECOMMENDED TAPE.

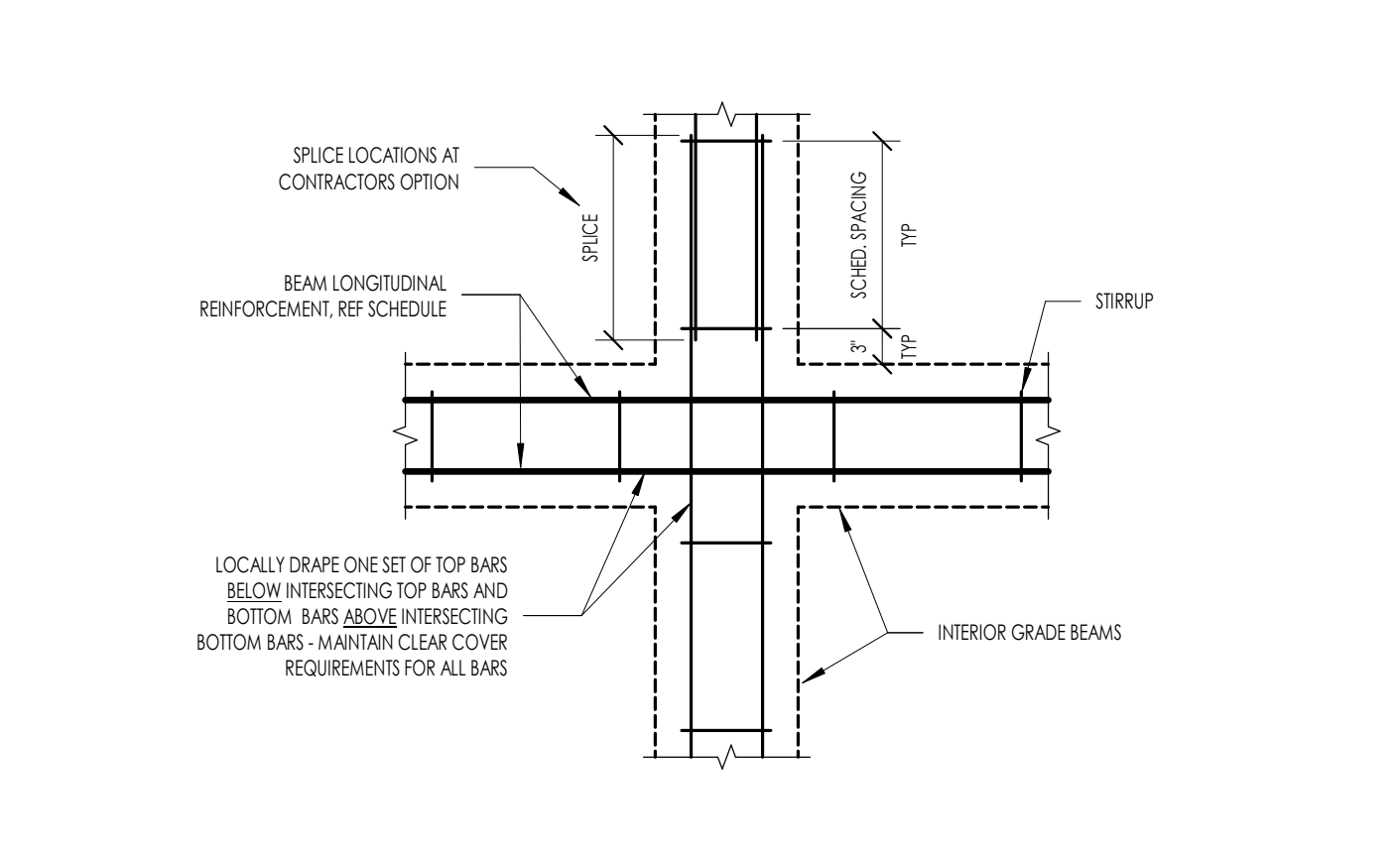
1 TYPICAL SUBGRADE AND VAPOR RETARDER PREPARATION NOT TO SCALE



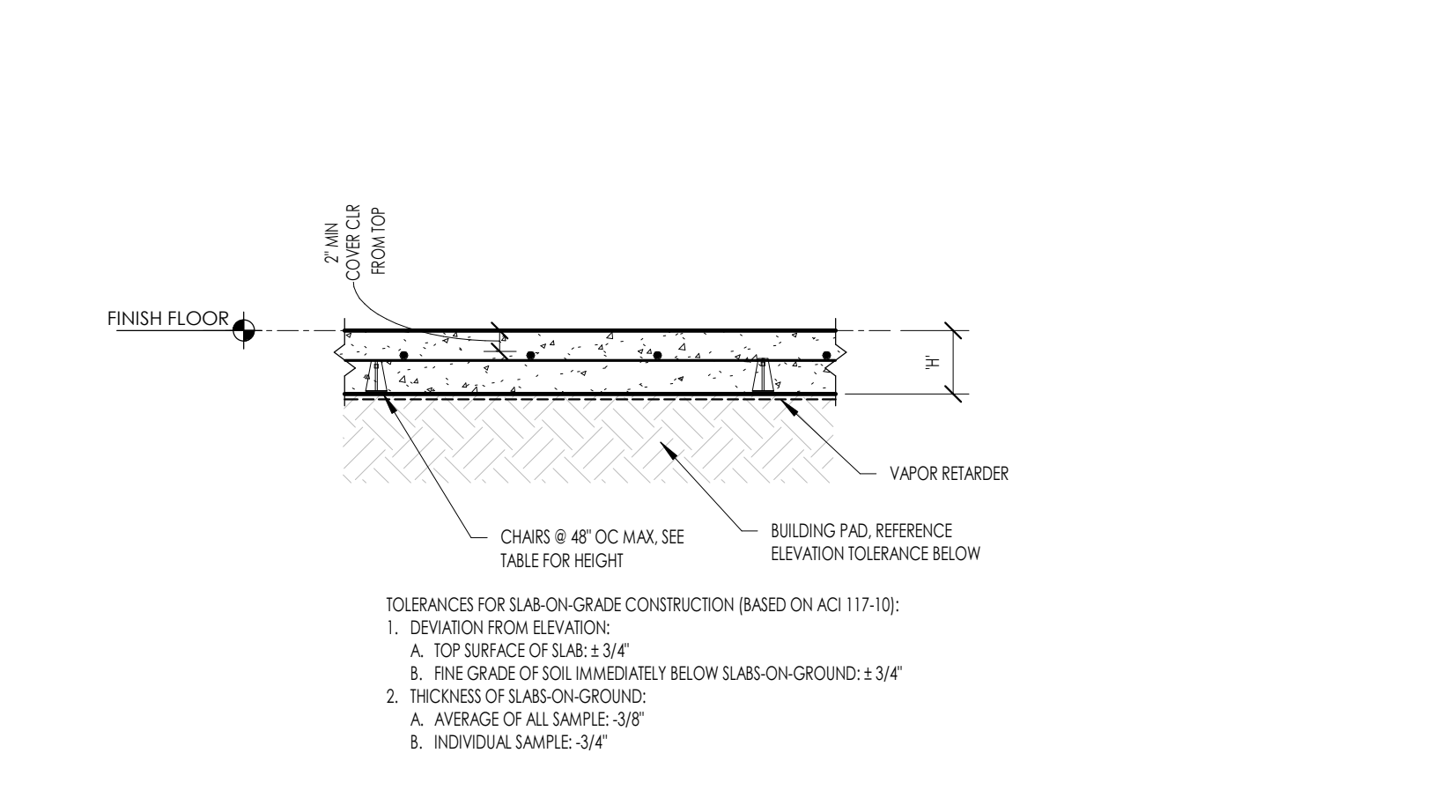
2 TYPICAL INTERIOR GRADE BEAM NOT TO SCALE



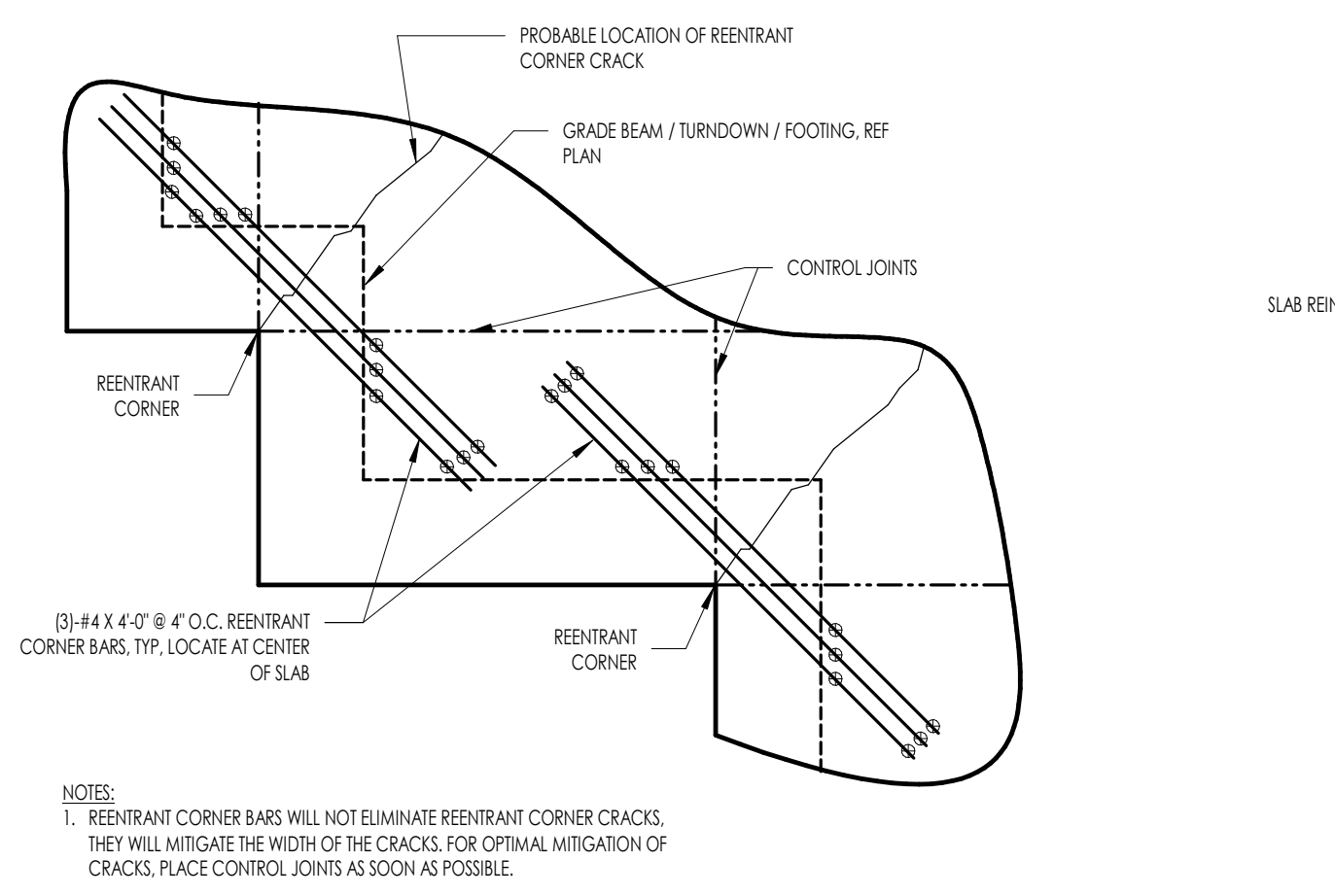
3 TYPICAL REINFORCEMENT AT SLAB BLOCKOUT NOT TO SCALE



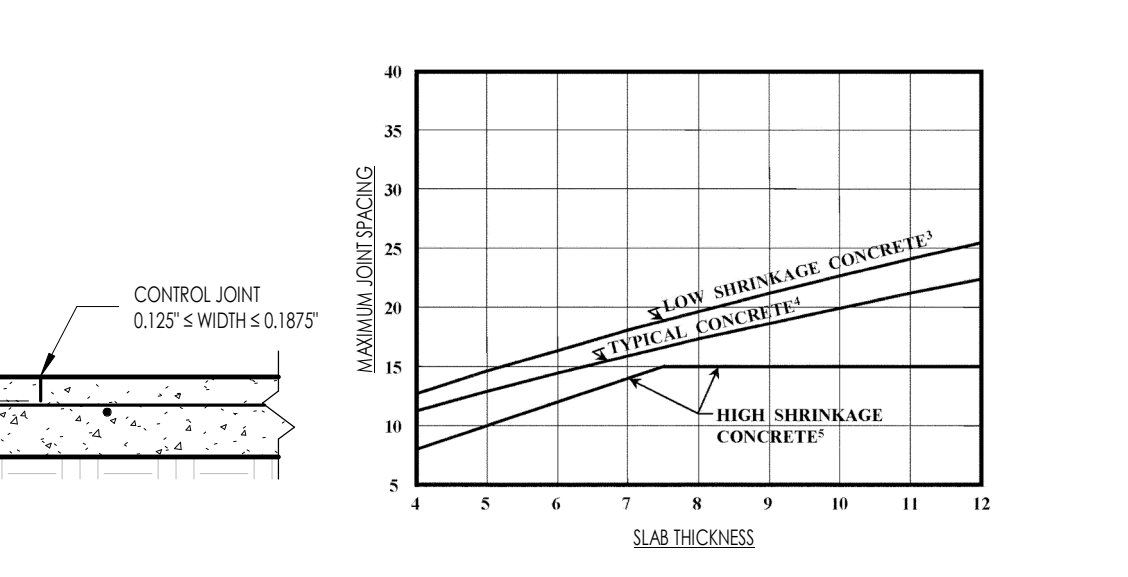
4 TYPICAL INTERIOR BEAM INTERSECTION NOT TO SCALE



5 TYPICAL SLAB-ON-GRADE SECTION NOT TO SCALE

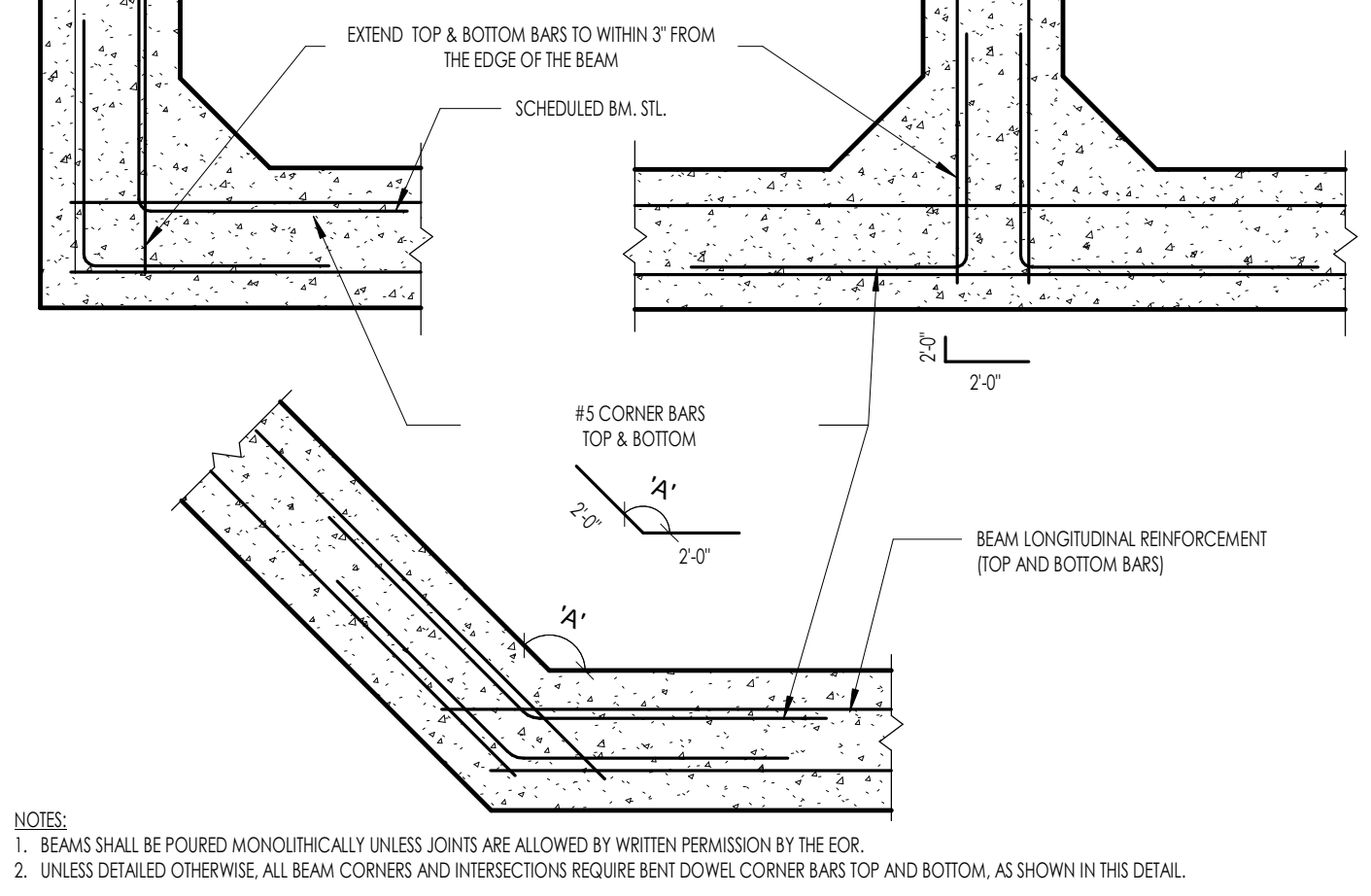


6 TYPICAL REINFORCING CORNER BARS NOT TO SCALE

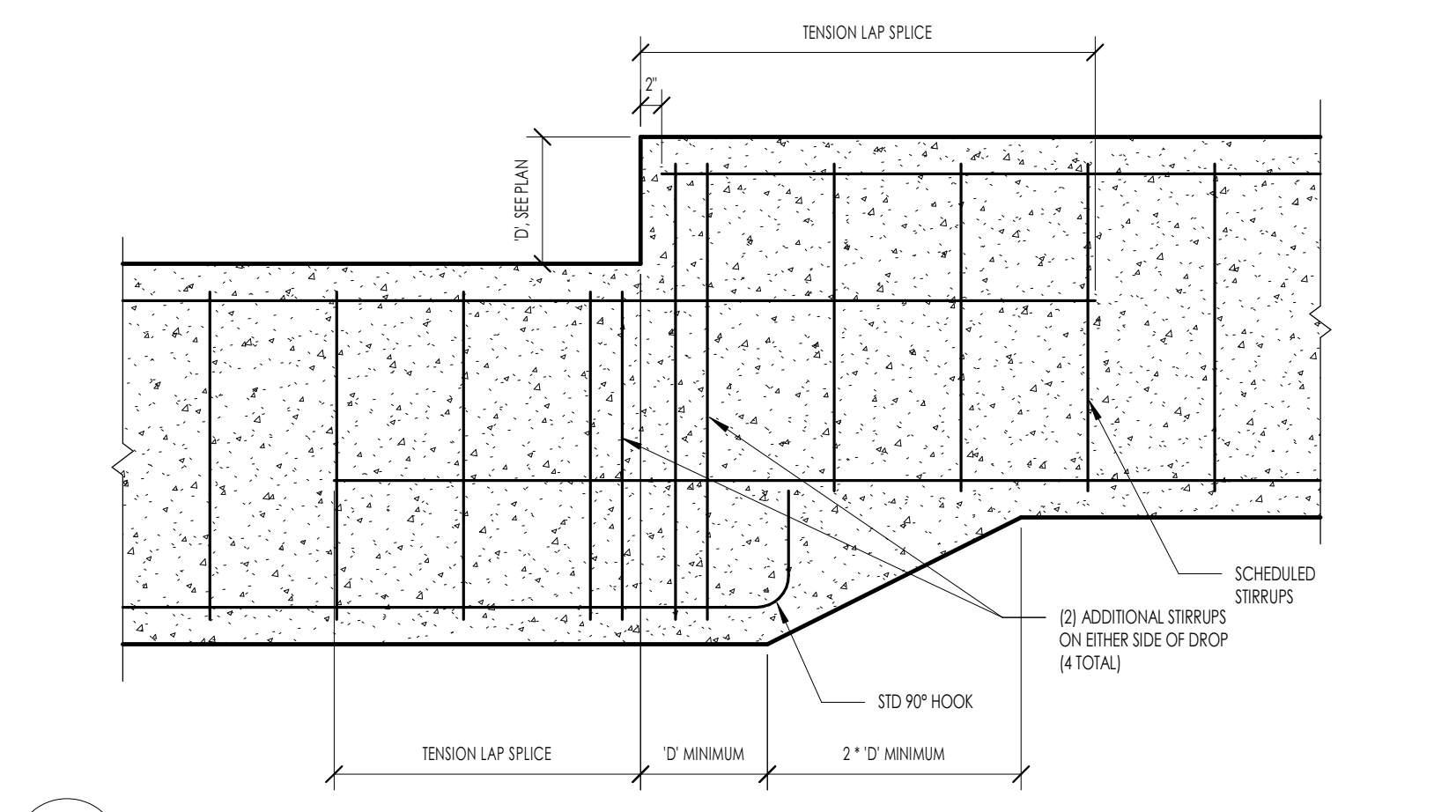


- NOTES:
- CONTROL JOINTS SHALL BE PLACED AS SOON AS THE CONCRETE HAS SET ENOUGH TO SUPPORT THE WEIGHT OF THE EQUIPMENT AND WORKER. CONTROL JOINTS CAN EITHER BE TOoled OR SAW-CUT INTO THE CONCRETE.
 - CONTROL JOINTS WHICH ARE USED TO CONTROL CRACKING ARE INEFFECTIVE IF THE FOLLOWING OCCUR:
 - PLACED TOO LATE.
 - NOT DEEP ENOUGH.
 - SLAB GRADE HAS ABRUPT CHANGES IN ELEVATION OUTSIDE OF ACI 117 TOLERANCES.
 - REFERENCE CONCRETE MATRIX FOR WHETHER LOW SHRINKAGE CONCRETE IS SPECIFIED. (ULTIMATE DRY SHRINKAGE STRAIN LESS THAN 500 MILLIONTHS PLACED ON A DRY BASE MATERIALS).
 - UNLESS NOTED OTHERWISE, CONCRETE IS ASSUMED TO BE OF NORMAL SHRINKAGE (ULTIMATE DRY SHRINKAGE STRAIN OF 550 TO 780 MILLIONTHS PLACED ON A DRY BASE MATERIALS).
 - HIGH SHRINKAGE CONCRETE SHALL NOT BE USED. ADDING WATER OVER THE W/C CAN LEAD TO A HIGH SHRINKAGE RATE.

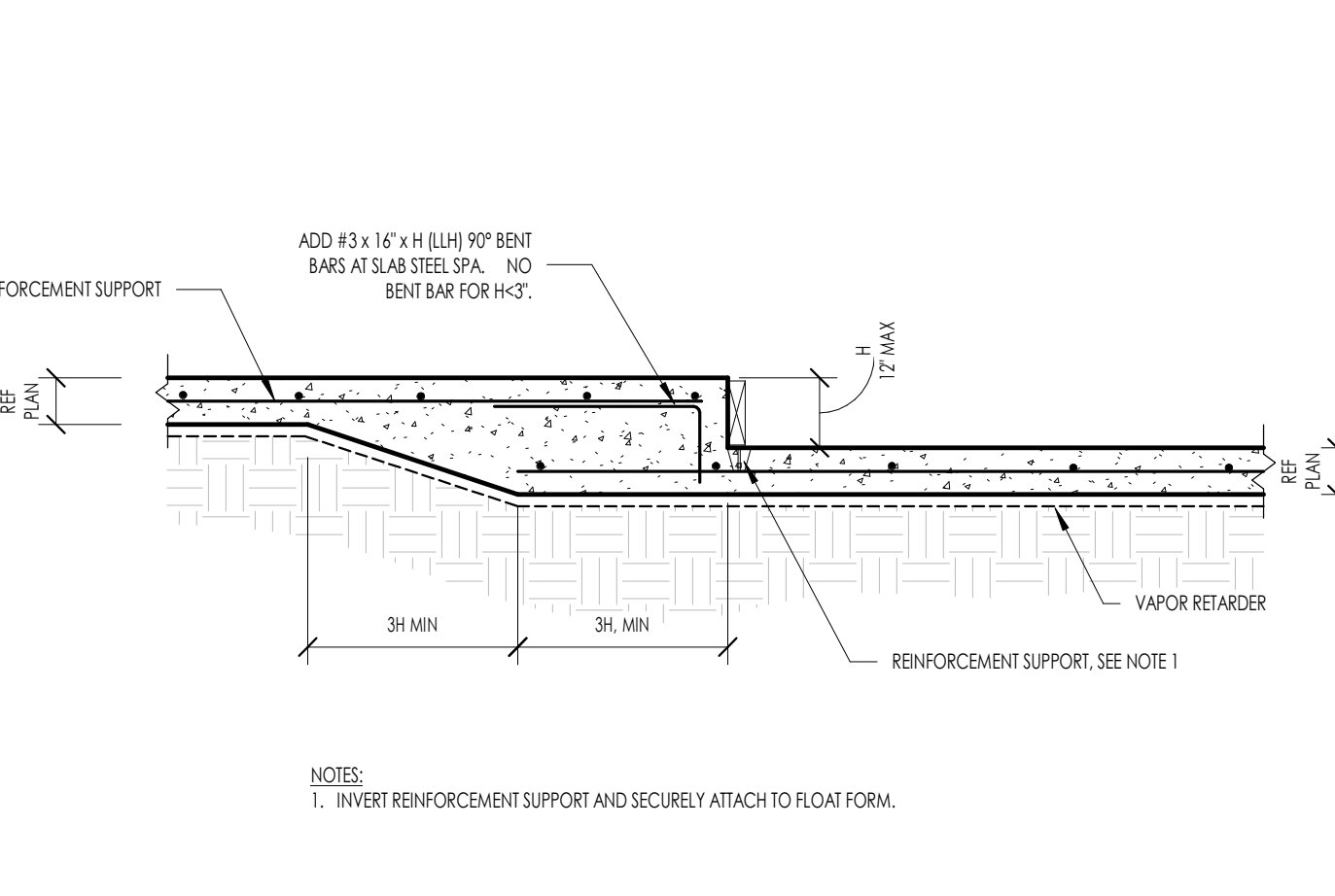
7 TYPICAL CONTROL JOINT IN SLAB-ON-GRADE NOT TO SCALE



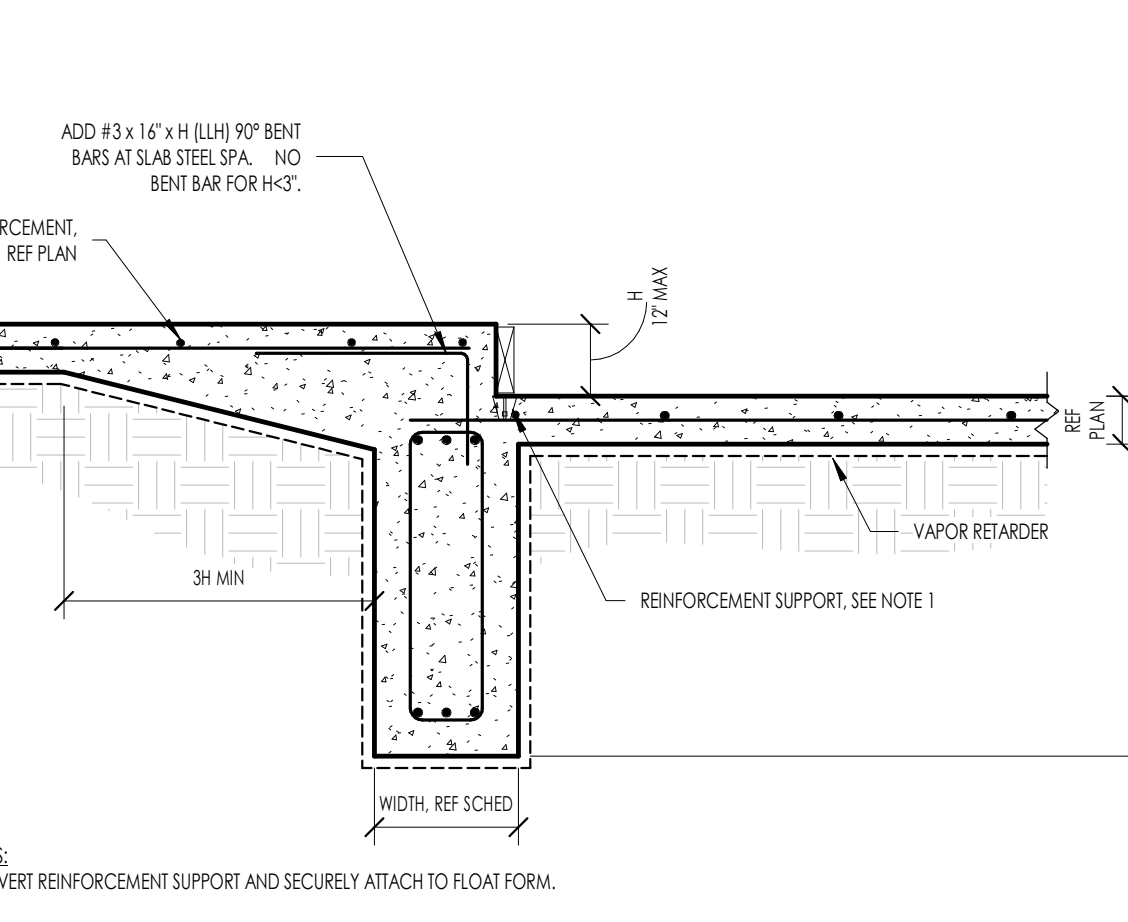
8 TYPICAL CORNER BARS NOT TO SCALE



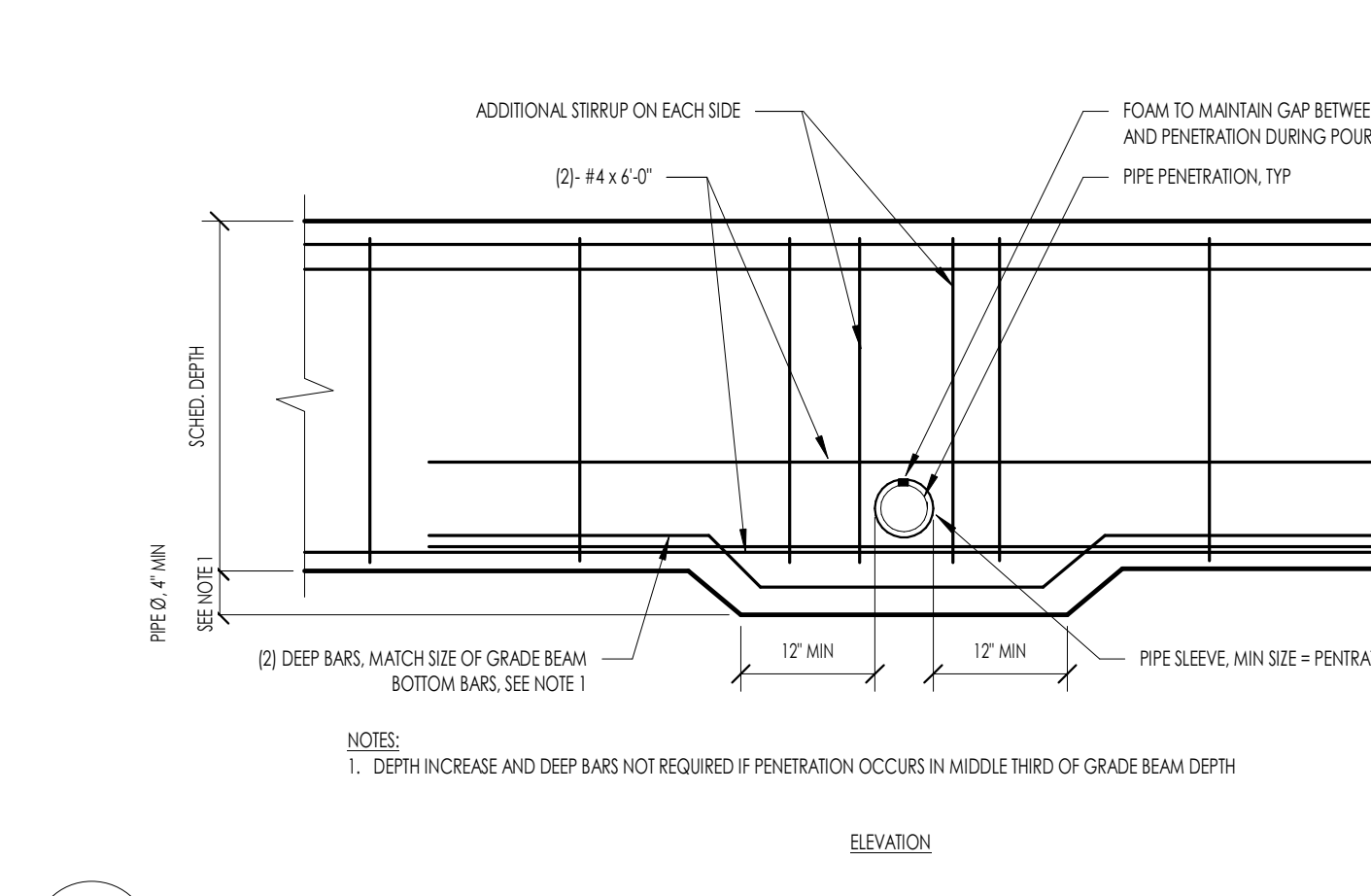
9 TYPICAL DROP TRANSITION IN GRADE BEAM NOT TO SCALE



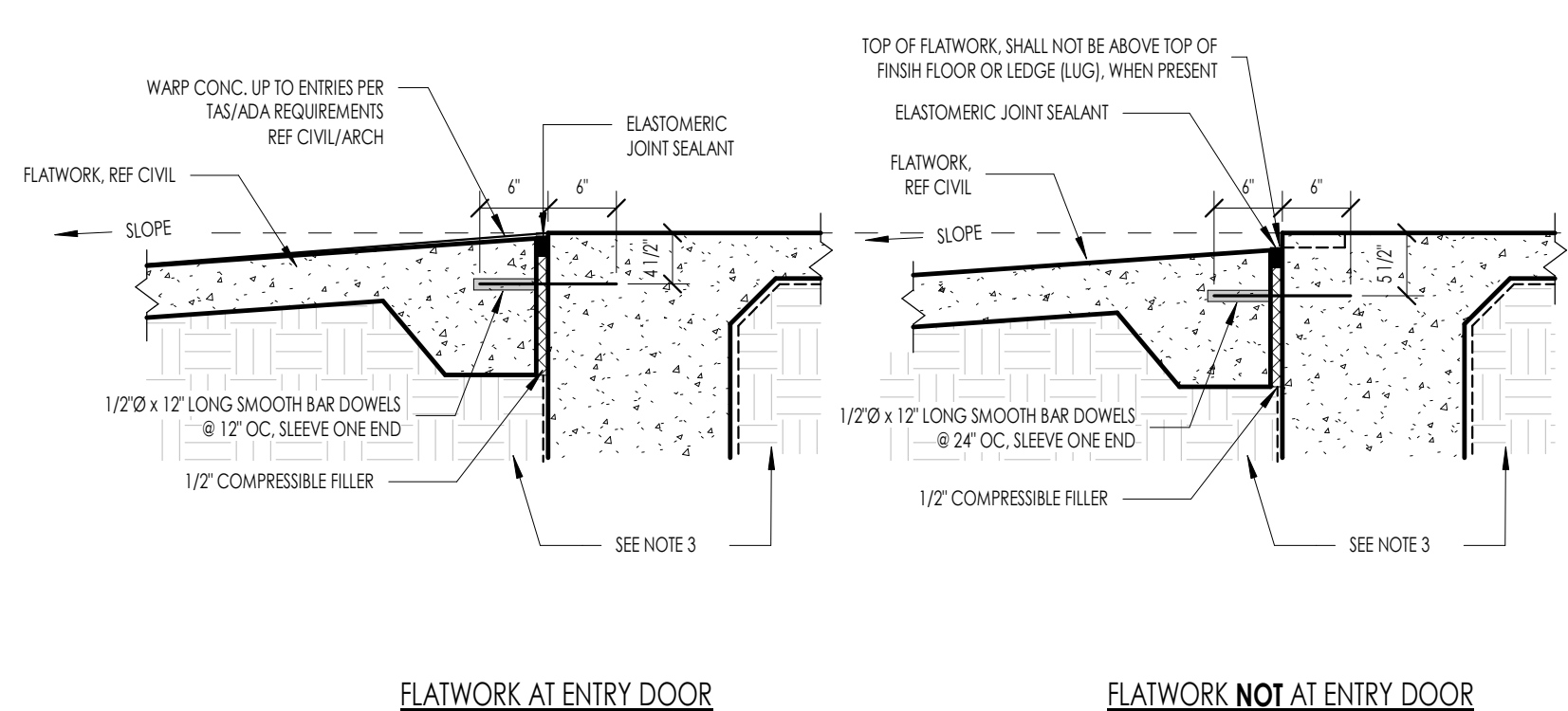
10 TYPICAL SLAB DROP - MAX DROP OF 12" NOT TO SCALE



11 TYPICAL SLAB DROP AT GRADE BEAM NOT TO SCALE

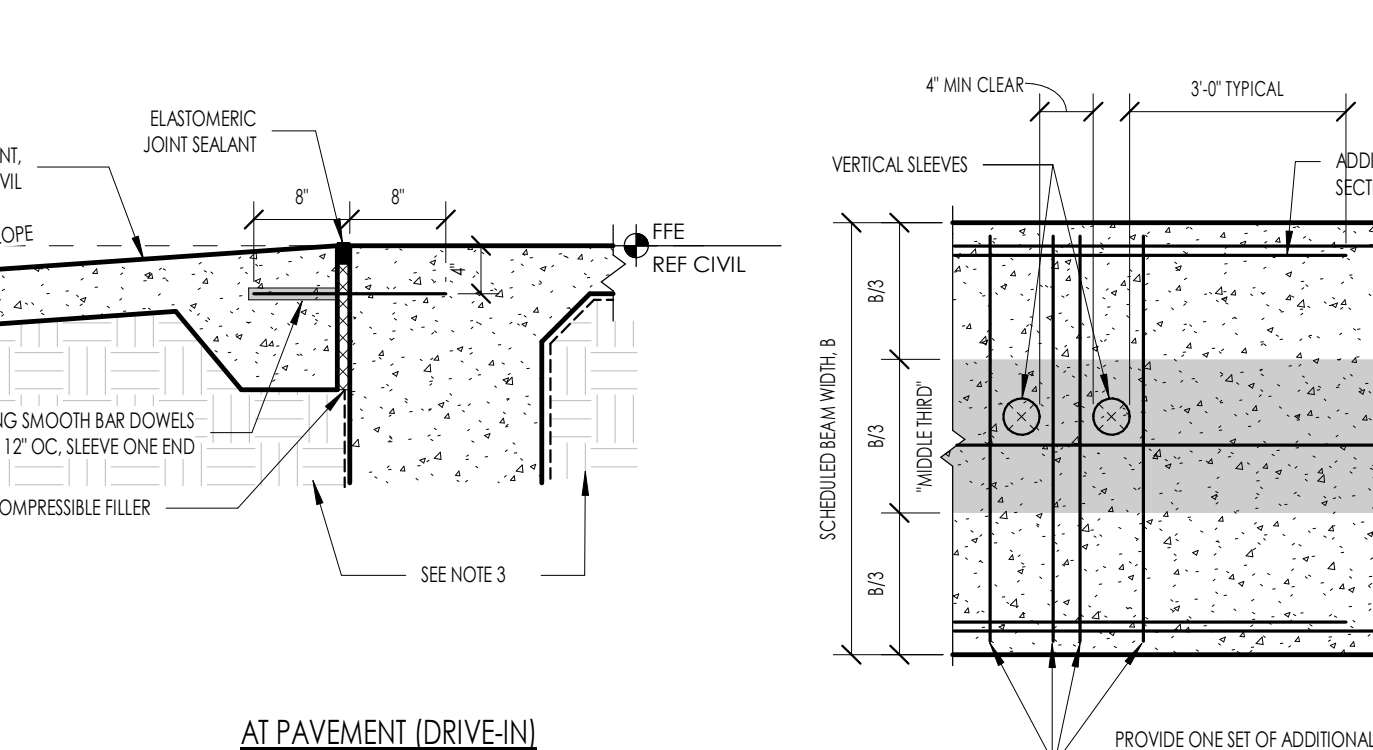


12 TYPICAL HORIZONTAL PENETRATION IN BEAM NOT TO SCALE



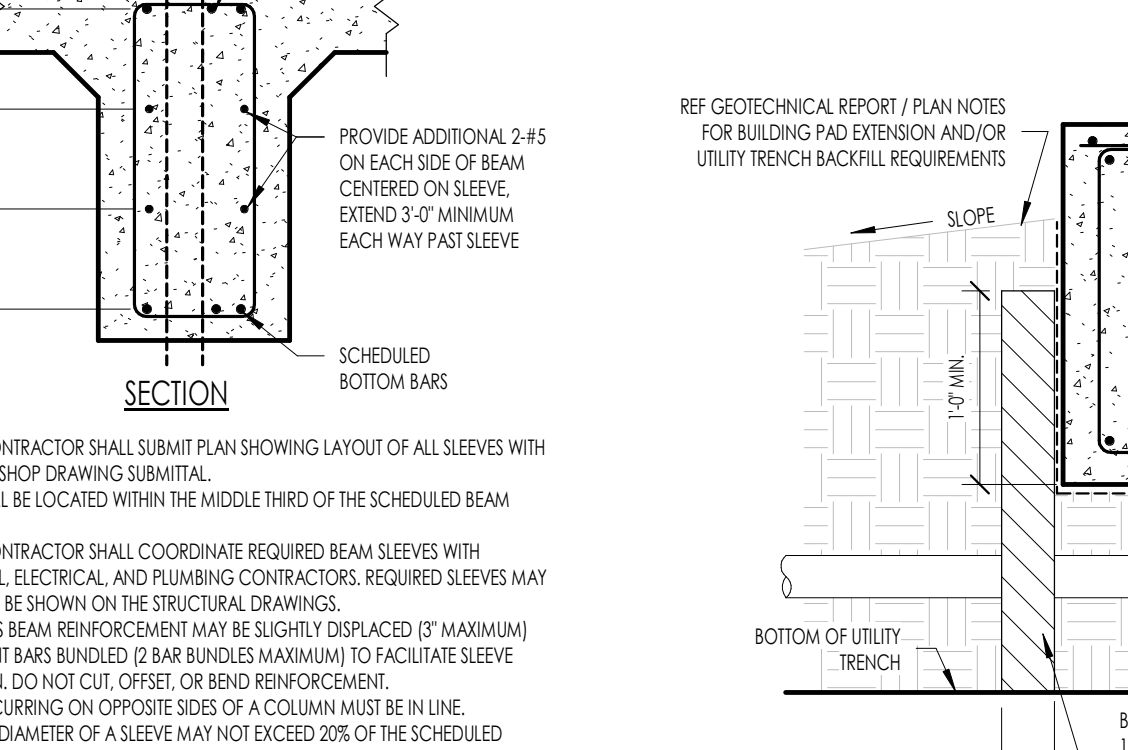
- NOTES:
- CONTRACTOR TO SUBMIT TO OWNER, ARCHITECT AND ENGINEER THE PRODUCT DATA FOR THE ELASTOMERIC JOINT SEALANT WHICH MUST INCLUDE A RECOMMENDED MAINTENANCE PROGRAM FOR THE SEALANT.
 - REFERENCE ARCHITECTURE / CIVIL FOR ADA REQUIREMENTS, TOP OF FLATWORK / PAVEMENT.
 - BUILDING PAD SUBGRADE IMPROVEMENT TO CONTINUE FOR A MINIMUM OF 5' OUTSIDE THE FOUNDATION UNDER FLATWORK / PAVEMENT.

13 TYPICAL FLATWORK/PAVEMENT DOWELS AT BUILDING NOT TO SCALE

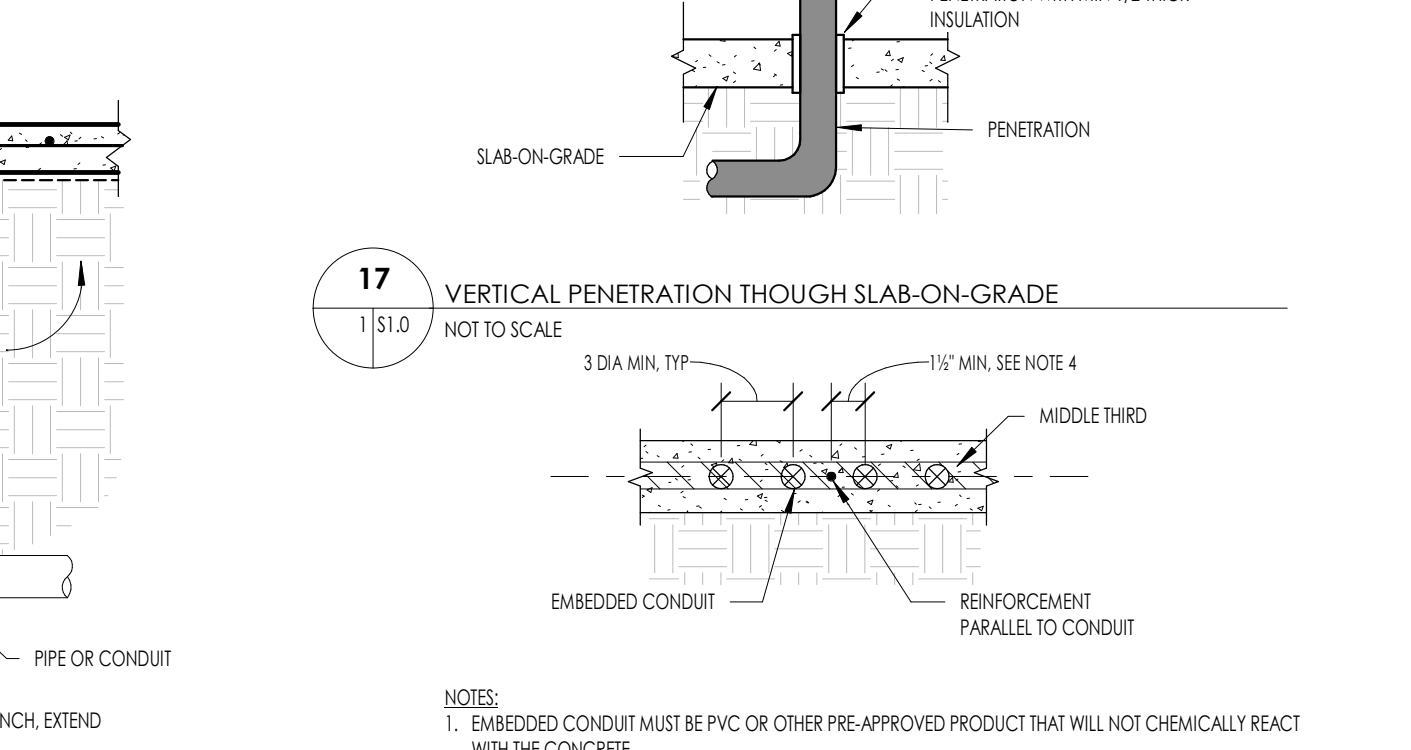


- NOTES:
- GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK DRAINING SUBMITTAL.
 - SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SCHEDULED BEAM WIDTH.
 - GENERAL CONTRACTOR SHALL COORDINATE REQUIRED BEAM SLEEVES WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
 - CONTINUOUS BEAM REINFORCEMENT MAY BE SLIGHTLY DISPLACED (BY MAXIMUM) OR ADJACENT BARS BENDED (IF BAR BENDS ALLOWED) TO ACCOMMODATE SLEEVE INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT.
 - SLEEVES OCCURRING ON OPPOSITE SIDES OF A COLUMN MUST BE IN LINE.
 - THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 20% OF THE SCHEDULED WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.
 - THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE ABOVE CONDITIONS.
 - SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.

14 TYPICAL VERTICAL PENETRATION IN GRADE BEAM NOT TO SCALE



15 TYPICAL UTILITY TRENCH UNDER BUILDING PAD BENTONITE PLUG AT EXTERIOR BEAM NOT TO SCALE



- NOTES:
- EMBEDDED CONDUIT MUST BE PVC OR OTHER PRE-APPROVED PRODUCT THAT WILL NOT CHEMICALLY REACT WITH THE CONCRETE.
 - EMBEDDED CONDUIT MUST BE CHARGED AND RESTRAINED @ 48" OC MAX IN ORDER TO PREVENT FLOoding OF THE CONDUIT DURING POURING.
 - PLACE ALL CONDUIT WITHIN THE MIDDLE THIRD OF THE OVERALL SLAB DEPTH.
 - DO NOT PLACE CONDUIT ADJACENT TO NOR RE CONDUIT TO PARALLEL REINFORCEMENT.

16 TYPICAL CONDUITS EMBEDDED IN SLAB-ON-GRADE NOT TO SCALE

RENOVATION
Planners
Engineers

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

ame
ENGINEERS

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

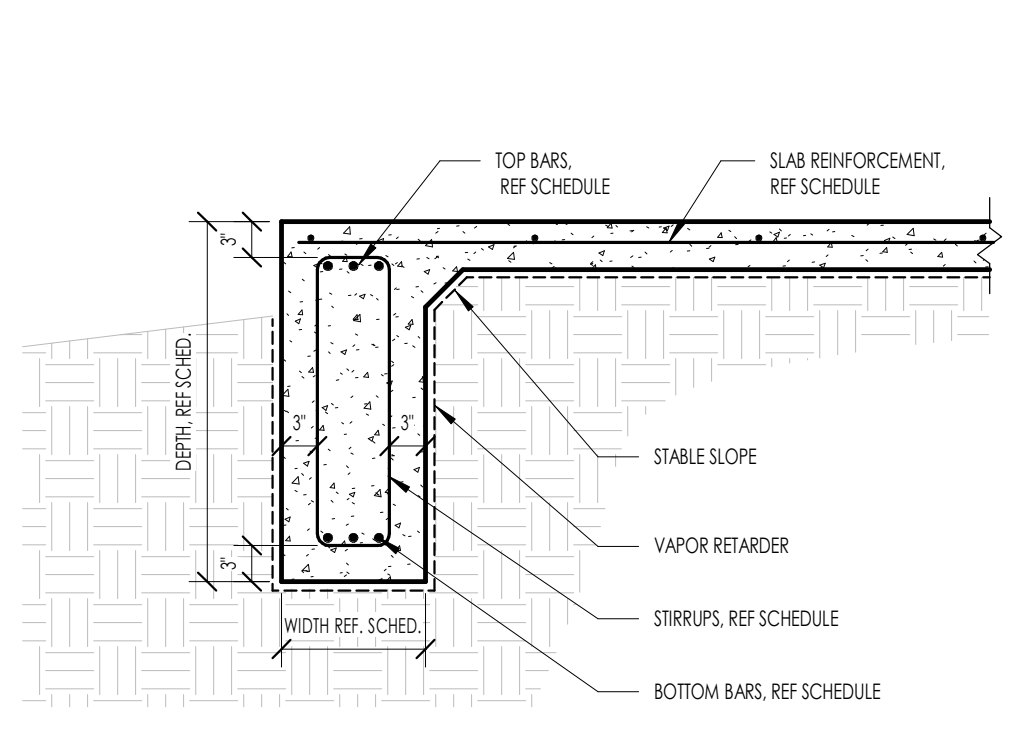
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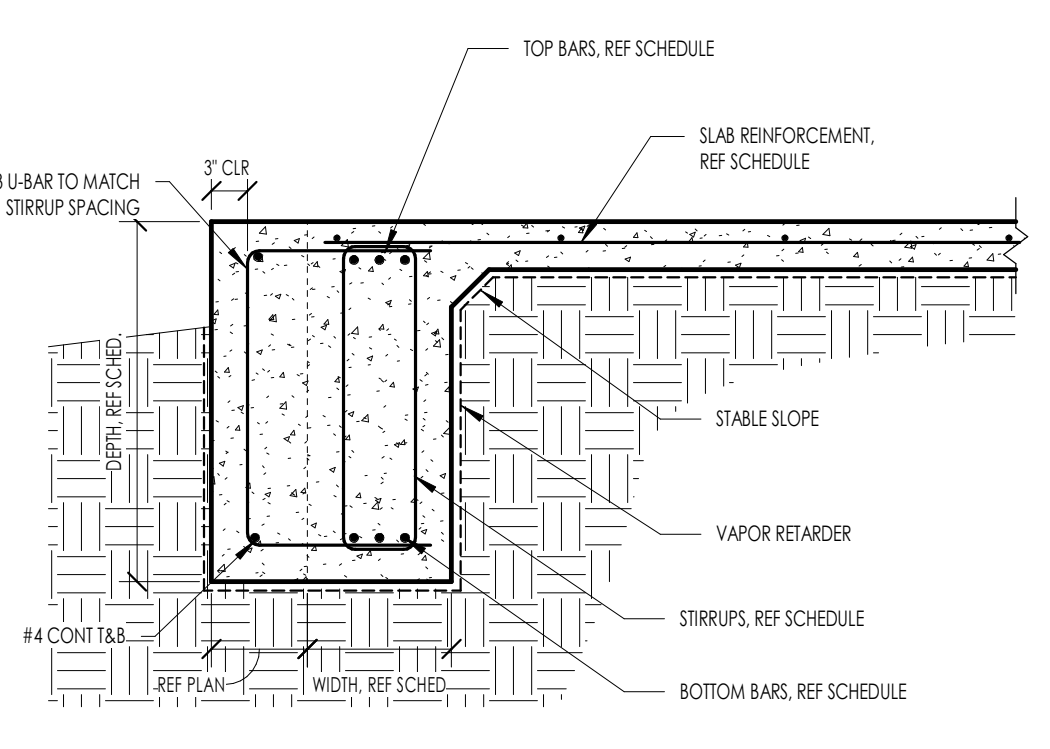
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Madison, WI 53703
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Date	Description
	REV. 1

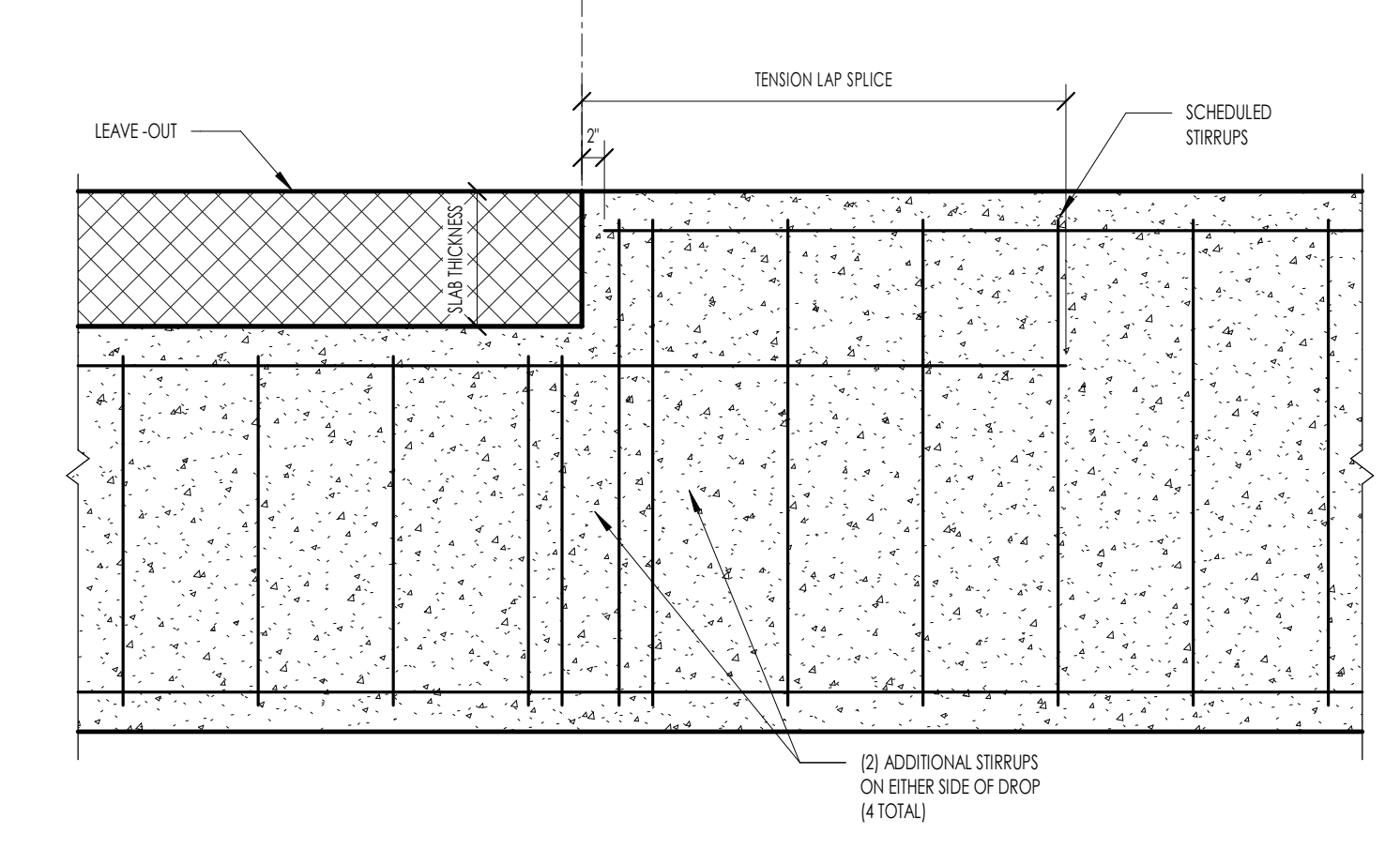
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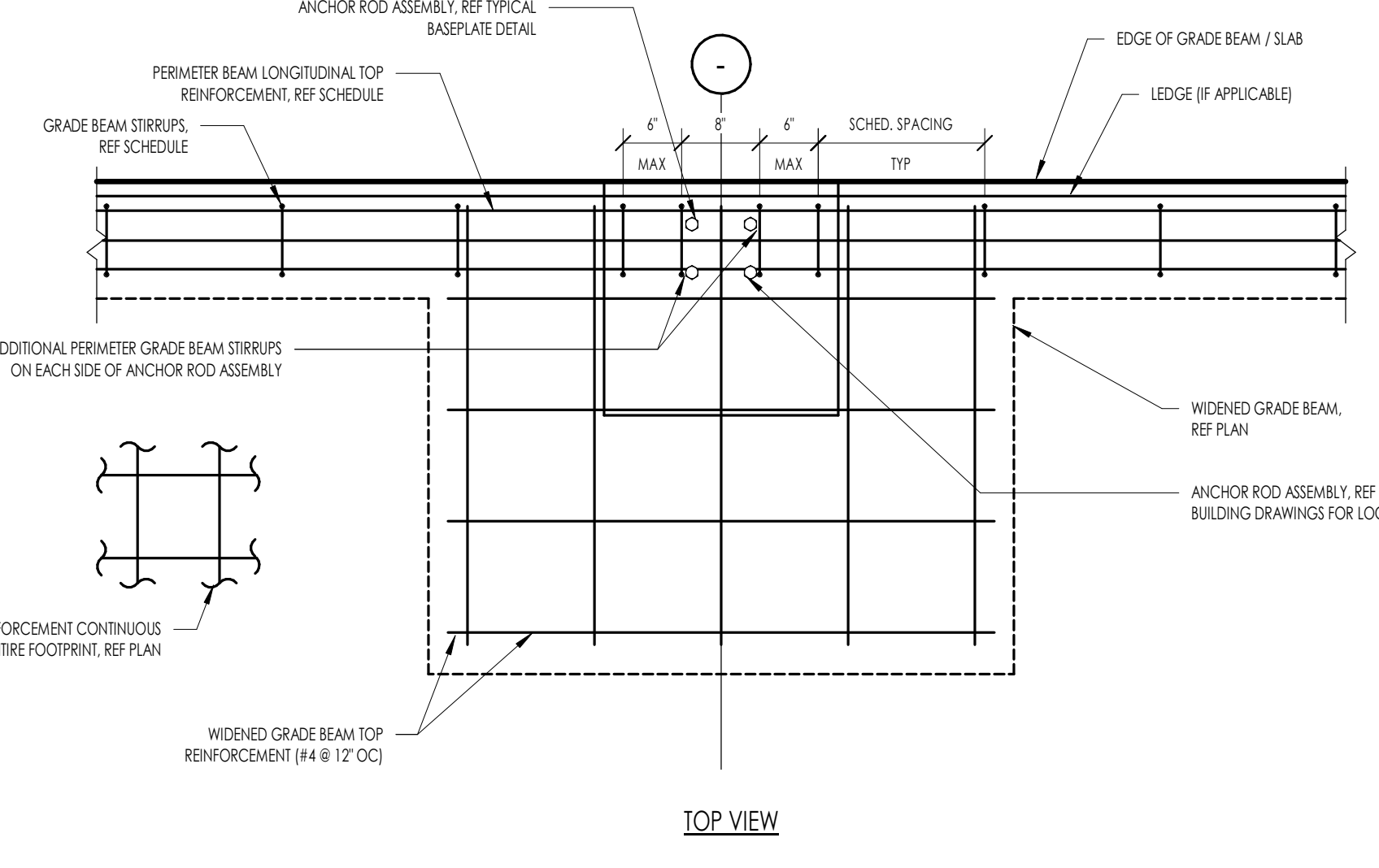
1 TYPICAL EXTERIOR GRADE BEAM
NOT TO SCALE



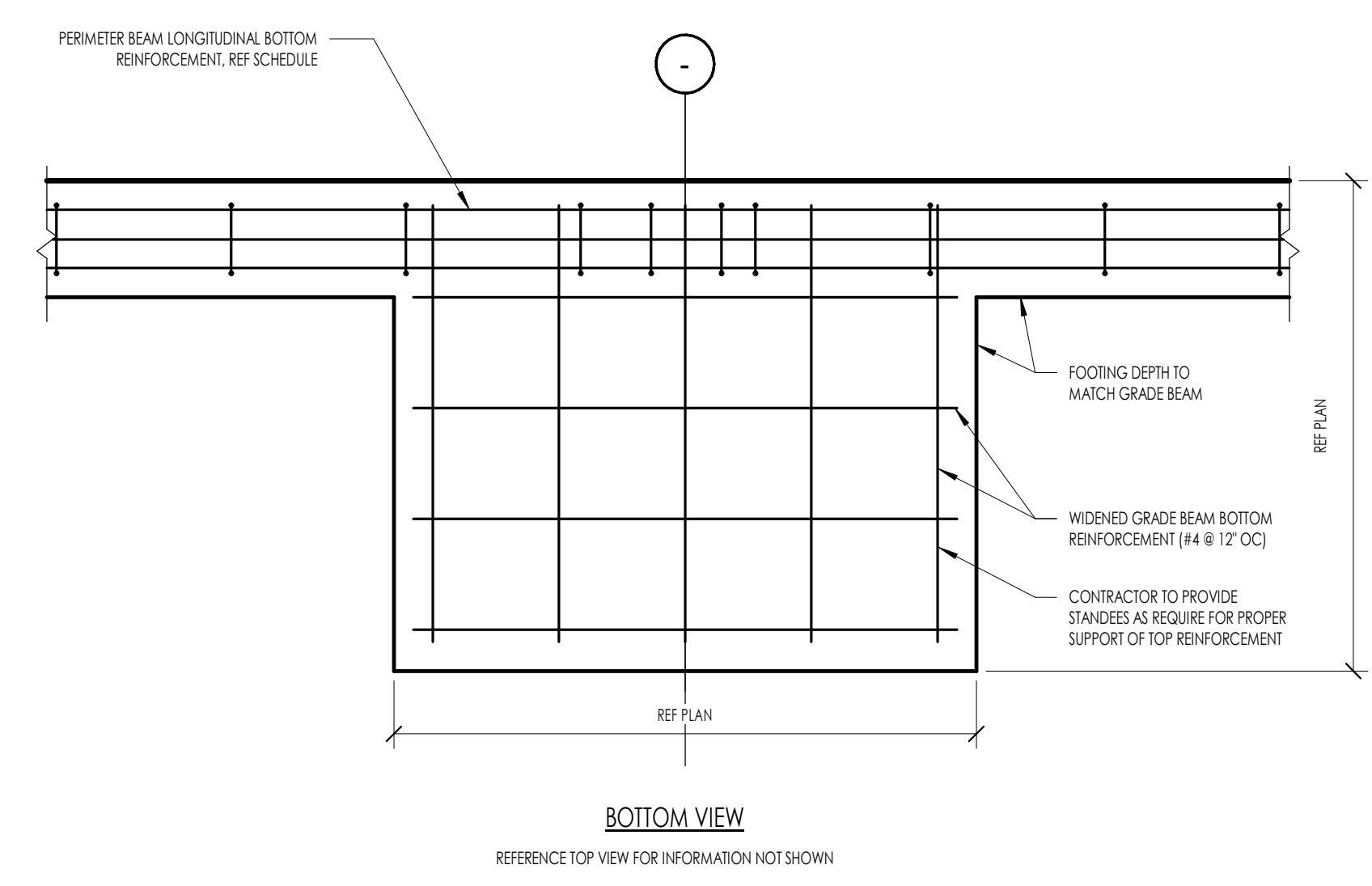
2 TYPICAL EXTERIOR WIDENED GRADE BEAM - SMALL WIDTH BUMP OUT IN SLAB
NOT TO SCALE



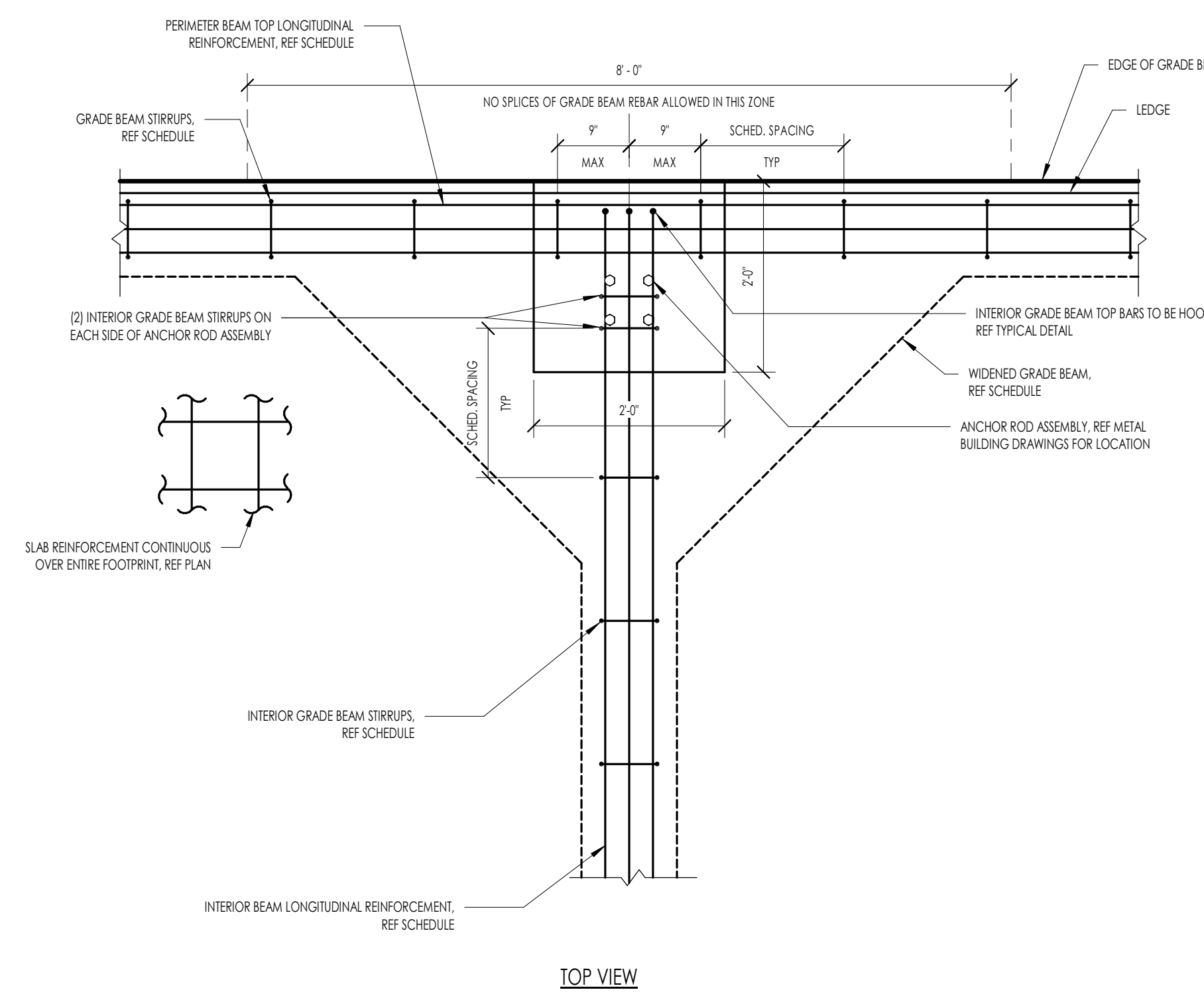
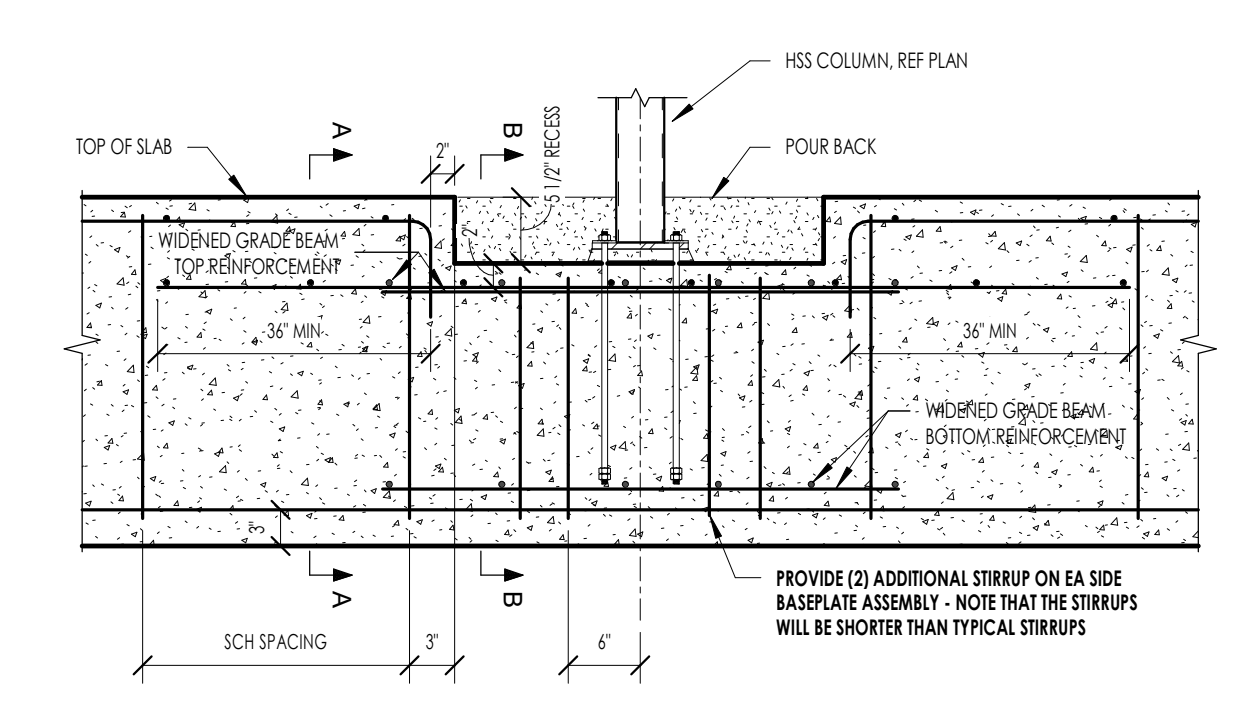
3 TYPICAL DROP TRANSITION IN GRADE BEAM TOP REINFORCEMENT AT SLAB LEAVE-OUT
NOT TO SCALE



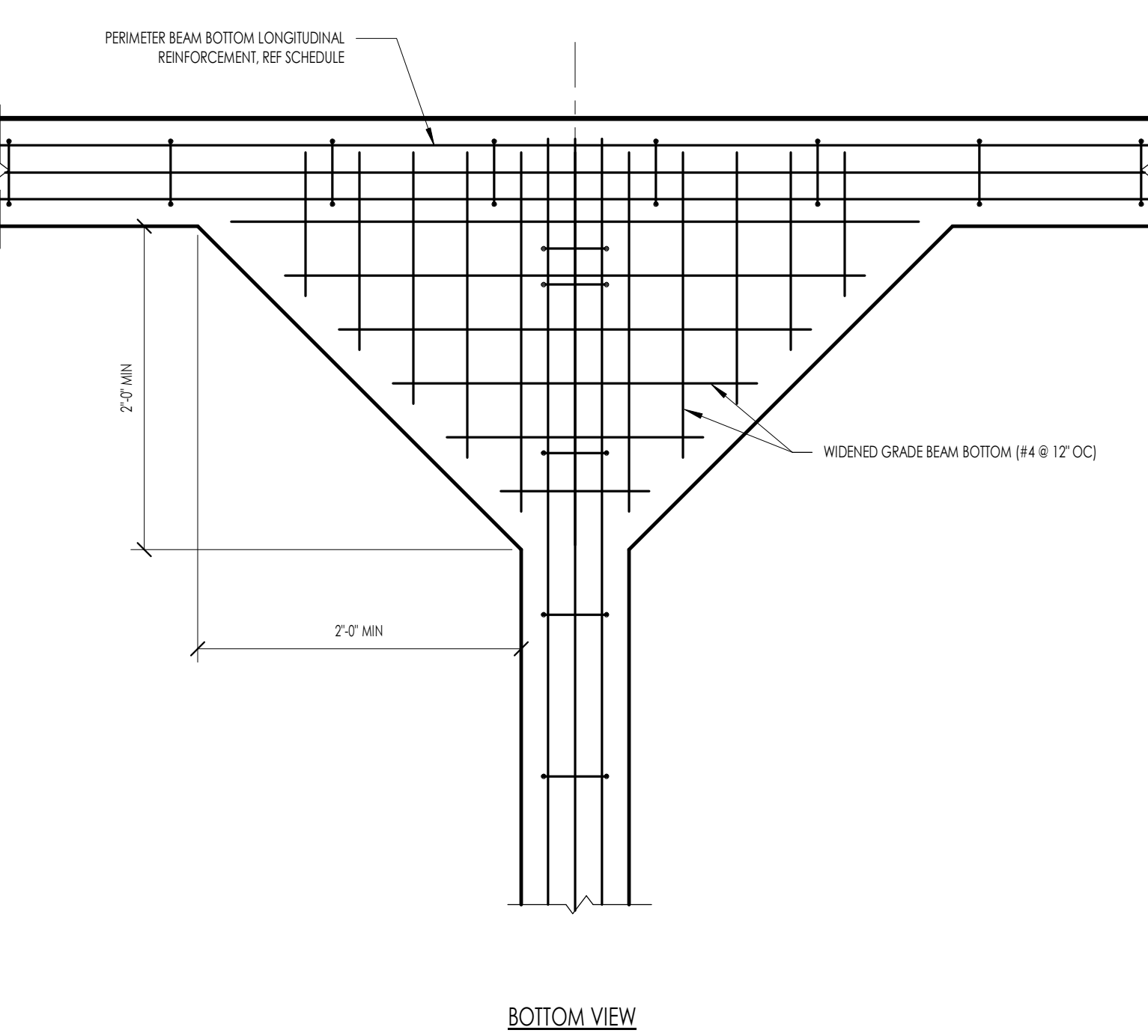
4 TYPICAL WIDENED FOOTING AT COLUMN - EMBEDDED BASE PLATE
NOT TO SCALE



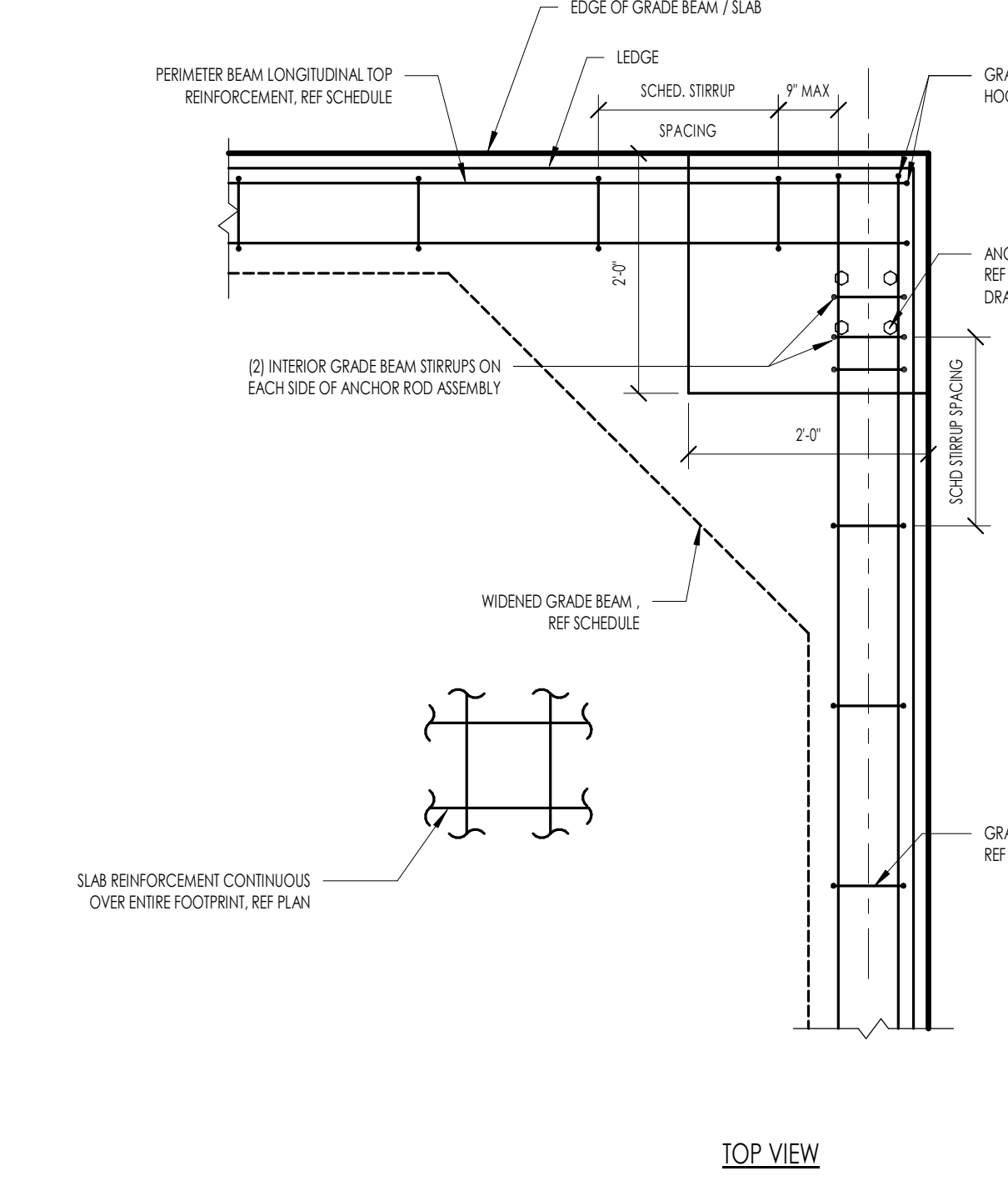
4 TYPICAL WIDENED FOOTING AT COLUMN - EMBEDDED BASE PLATE
REFERENCE TOP VIEW FOR INFORMATION NOT SHOWN



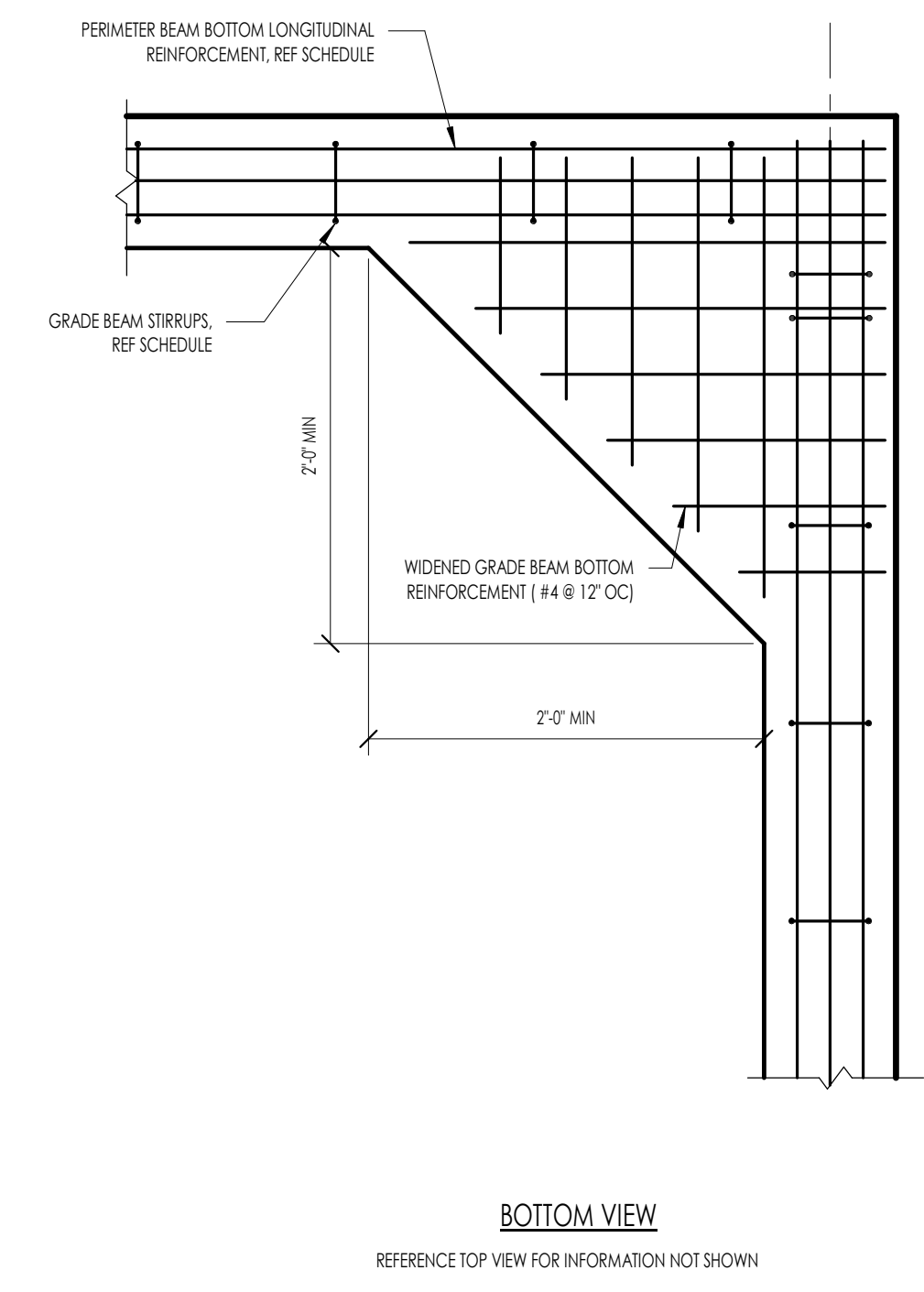
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
TOP VIEW



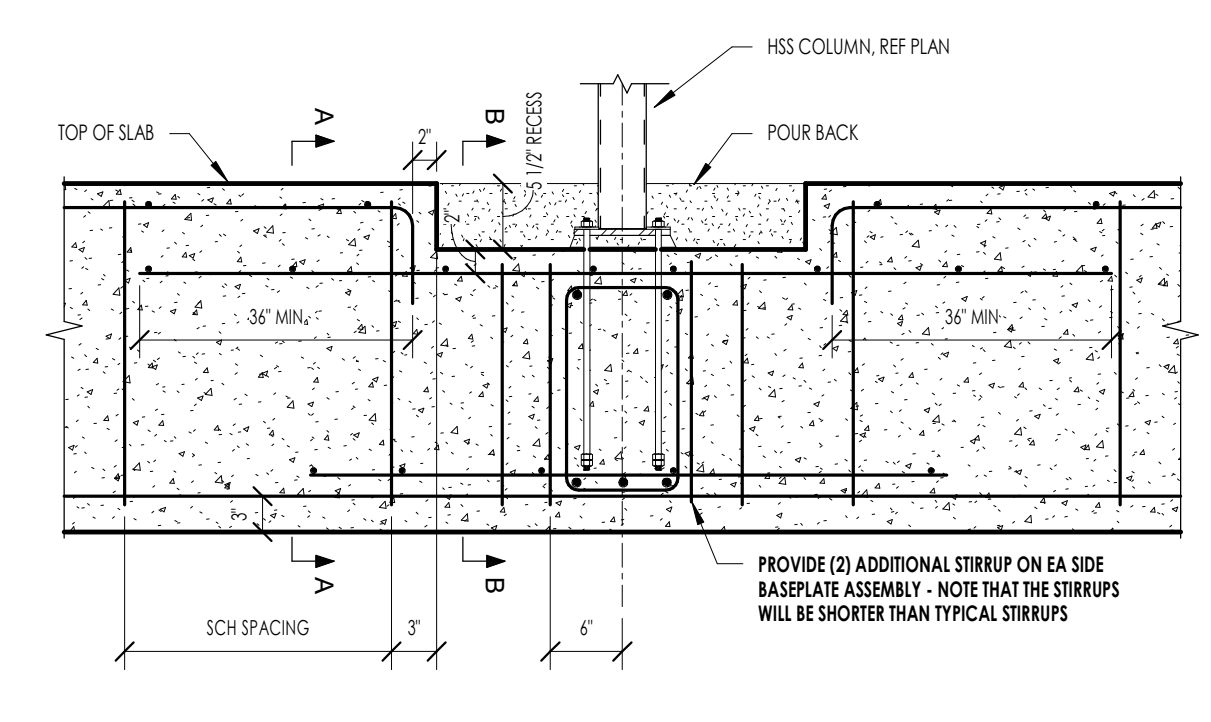
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
BOTTOM VIEW



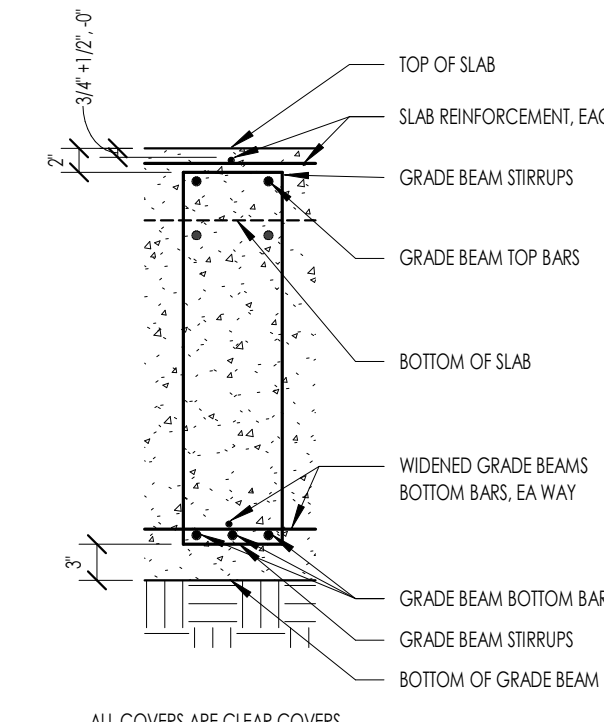
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
TOP VIEW



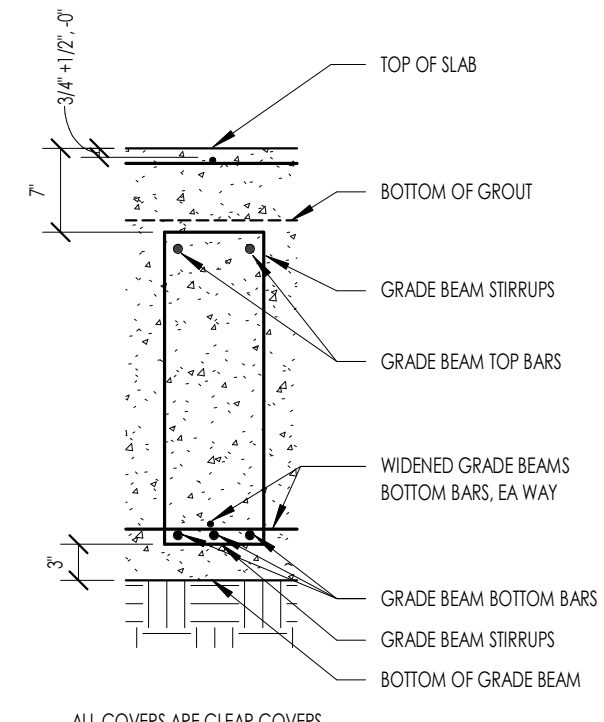
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
BOTTOM VIEW



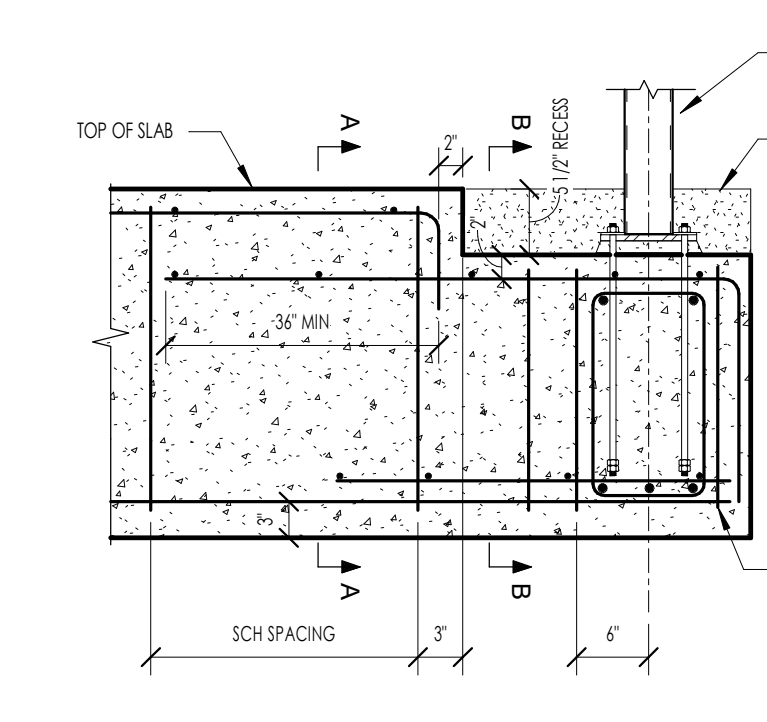
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
NOT TO SCALE



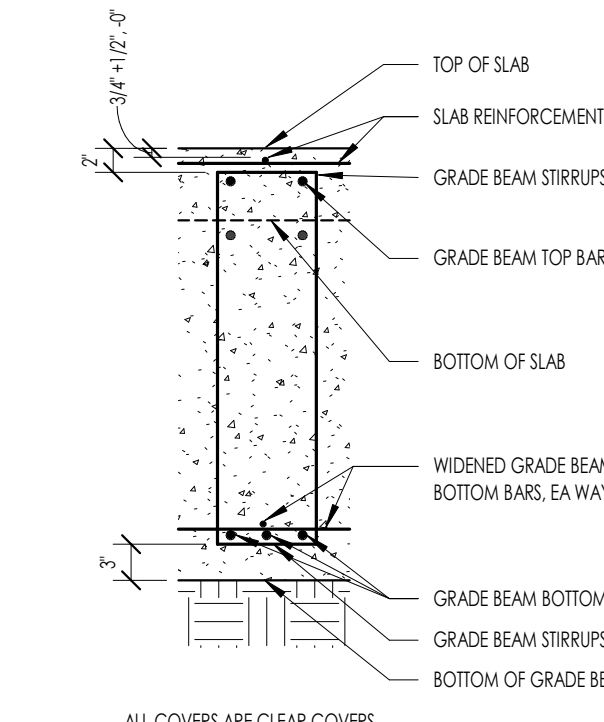
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
SECTION A-A



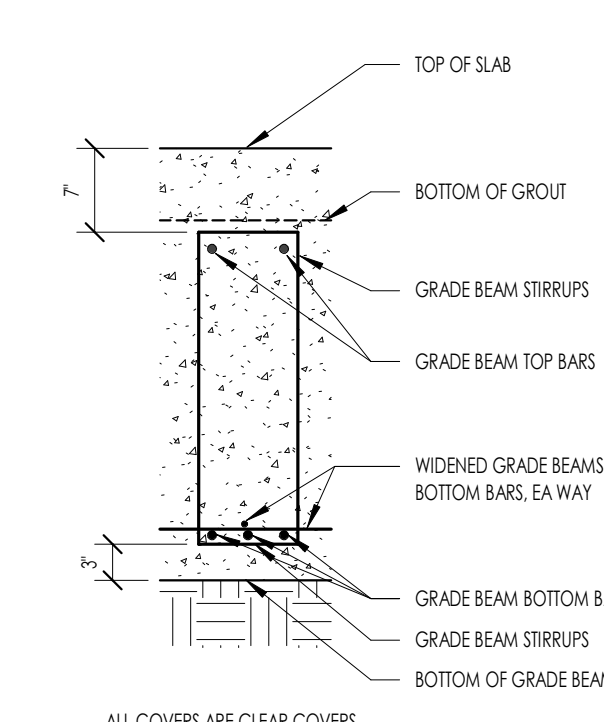
5 TYPICAL WIDENED GRADE BEAM AT COLUMN - EMBEDDED BASE PLATE
SECTION B-B



6 TYPICAL WIDENED GRADE BEAM AT CORNER EMBEDDED BASE PLATE
NOT TO SCALE



6 TYPICAL WIDENED GRADE BEAM AT CORNER EMBEDDED BASE PLATE
SECTION A-A



6 TYPICAL WIDENED GRADE BEAM AT CORNER EMBEDDED BASE PLATE
SECTION B-B

Date	Description

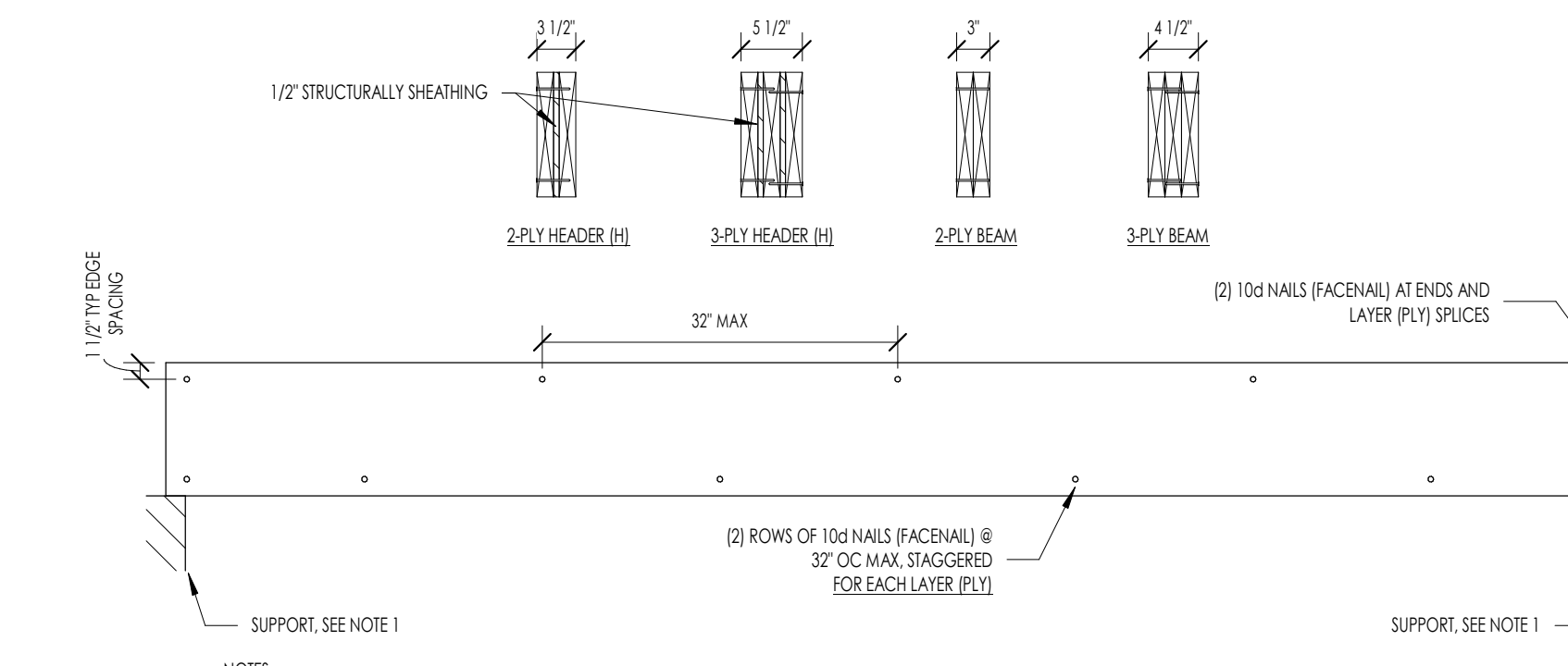
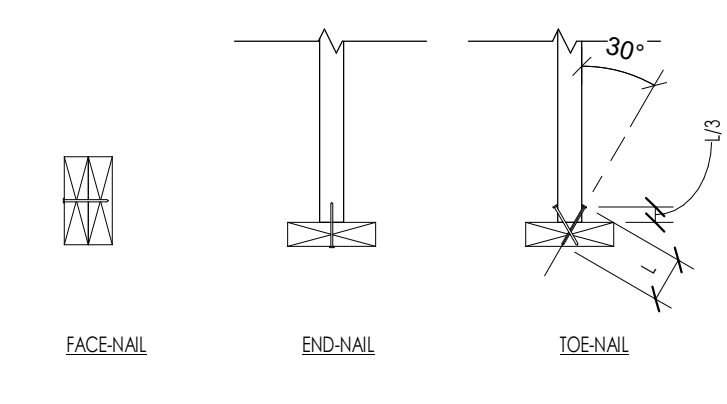
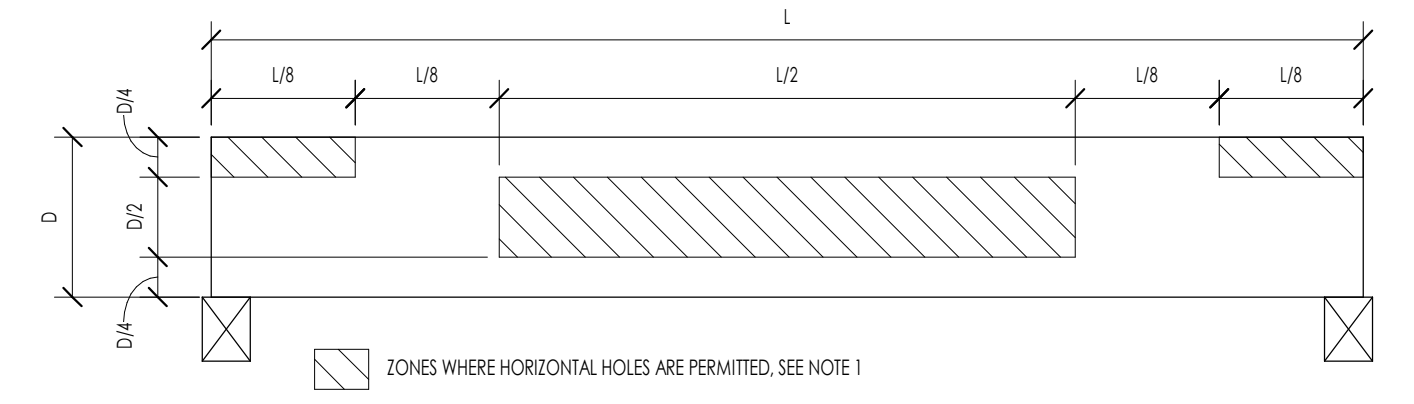
openingdesign

Architect: OpeningDesign
17 S Fairchild | FL 7
Madison, WI 53703
ryan@openingdesign.com | 773.425.6456

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TYPICAL FASTENING SCHEDULE

CONNECTION ID	CONNECTION TYPE	FASTENING	FASTENING ORIENTATION
1	JOIST TO RILL OR GIRDER	(2) - 0.131"Ø X 3"	TODENAIL
2	SOLE PLATE TO JOIST OR BLOCKING	0.148"Ø X 3"X NAILS @ 12" OC NAILS	FACE NAIL
3	TOP PLATE TO STUD	(3) - 0.131"Ø X 3" NAILS	END NAIL
4	STUD TO SOLE PLATE - OPTION 1	(2) - 1/4" COMMON (2) - 0.131"Ø X 3" NAILS	END NAIL
5	STUD TO SOLE PLATE - OPTION 2	(4) 0.131"Ø X 3" NAILS	TODENAIL
6	DOUBLE/MULTIPLE STUDS	REFERENCE DETAIL 7/12(1)	FACE NAIL
7	DOUBLE TOP PLATES	0.131"Ø X 3" NAILS @ 12" OC	FACE NAIL
8	DOUBLE TOP PLATE SPICE	REFERENCE DETAIL 10/12(1)	FACE NAIL
9	BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE	(3) - 0.131"Ø X 3" NAILS	TODENAIL
10	RIM JOIST TO TOP PLATE	0.131"Ø X 3" NAILS @ 6" OC	TODENAIL
11	CeILING JOIST TO TOP PLATE	(3) - 0.131"Ø X 3" NAILS	TODENAIL
12	CeILING JOIST LAP OVER PARTITION	(4) - 0.131"Ø X 3" NAILS	FACE NAIL
13	CeILING JOIST TO PARALLEL RAFTERS	(4) - 0.131"Ø X 3" NAILS	FACE NAIL
14	RAFTER TO TOP PLATE	(3) - 0.131"Ø X 3" NAILS	TODENAIL
15	BUILT-UP CORNER STUDS	0.131"Ø X 3" NAILS @ 14" OC	FACE NAIL
16	BUILT-UP BEAMS	REFERENCE DETAIL 4/12(2)	FACE NAIL
17	COLLAR TIE TO RAFTER	(4) - 0.131"Ø X 3" NAILS	FACE NAIL
18	JACK RAFTER TO HP	(4) - 0.131"Ø X 3" NAILS	TODENAIL
19	RAFTER TO RIDGE BOARD/BEAM	(3) - 0.131"Ø X 3" NAILS	TODENAIL
20	BLOCKING AT STUDS	(3) - 0.131"Ø X 3" NAILS EACH SIDC	TODENAIL

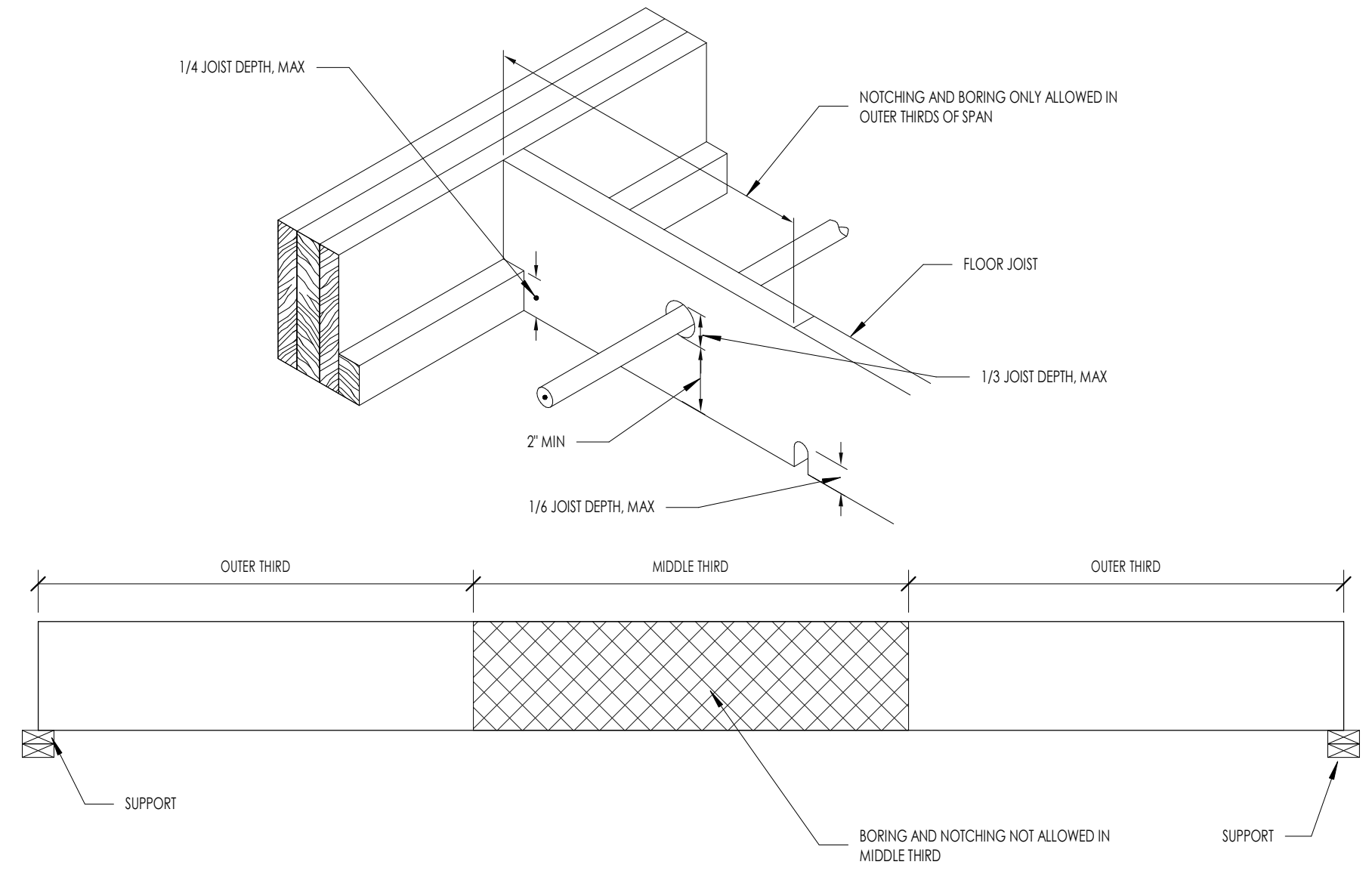


1 TYPICAL WOOD FASTENING SCHEDULE NOT TO SCALE

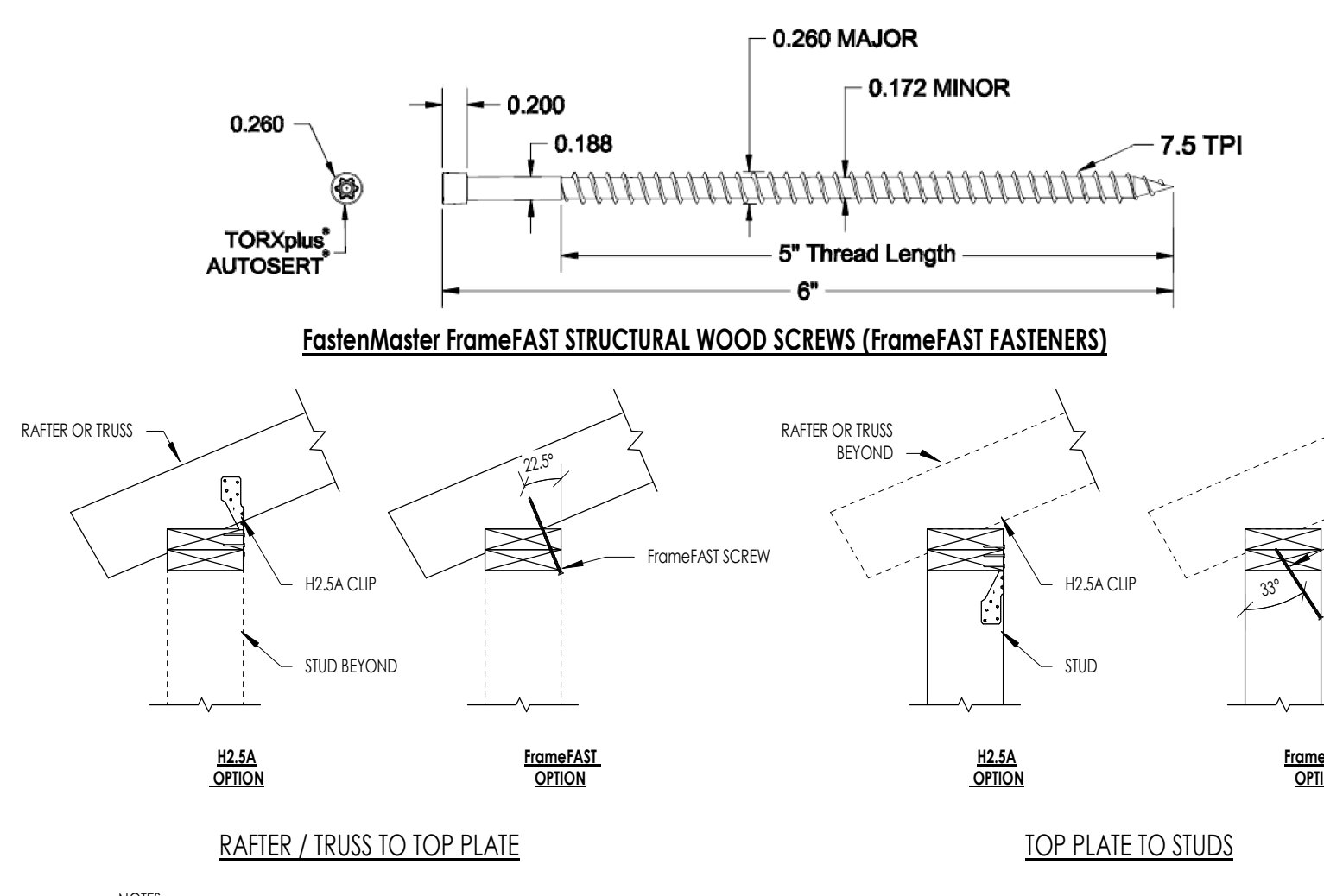
2 ALLOWABLE HORIZONTAL HOLE LOCATIONS IN GLUE LAMINATED TIMBER BEAMS NOT TO SCALE

3 TYPICAL NAILING CONFIGURATIONS NOT TO SCALE

4 TYPICAL NAILING BUILT UP BEAMS, GIRDERS & HEADERS NOT TO SCALE



5 ALLOWABLE NOTCHING AND BORING OF FLOOR JOISTS NOT TO SCALE



6 ALLOWABLE SUBSTITUTION OF H2.5A CLIPS WITH FrameFAST SCREWS - UPLIFT LOAD PATH NOT TO SCALE

7 TYPICAL LVL MULTIPLE PLY FASTENING REQUIREMENTS NOT TO SCALE

FASTENER SCHEDULE - TO BEAM TOP FLANGE

L (ft)	PAF FASTENER	BOLT / ROD*
≤ 0.35	XU 47 @ 12" OC	1/2"Ø @ 24" OC
0.35 < L ≤ 0.44	DS 47 @ 12" OC	1/2"Ø @ 24" OC
L > 0.44	N/A	1/2"Ø @ 12" OC

FASTENER SCHEDULE - TO BEAM WEB / BOTTOM FLANGE

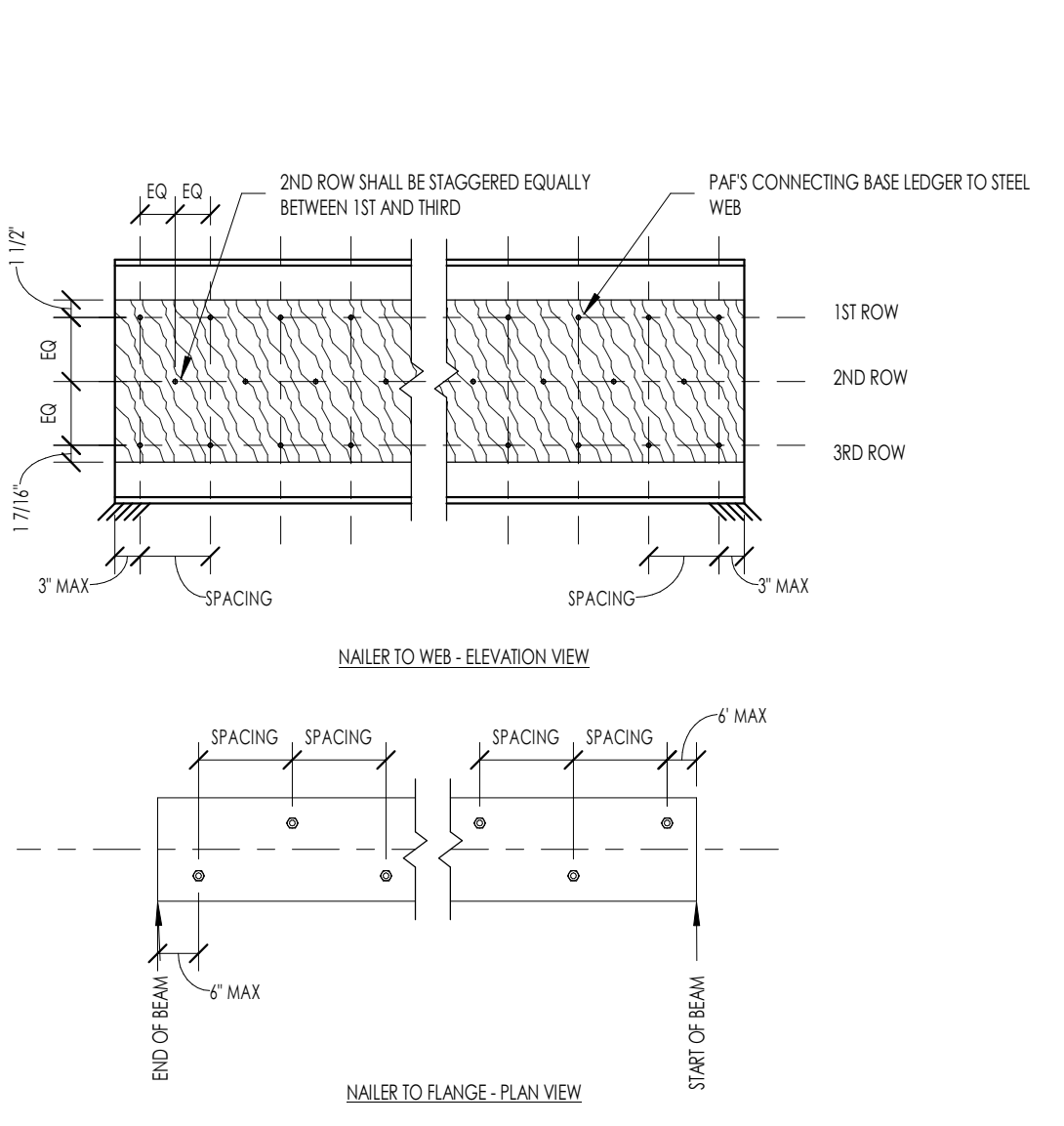
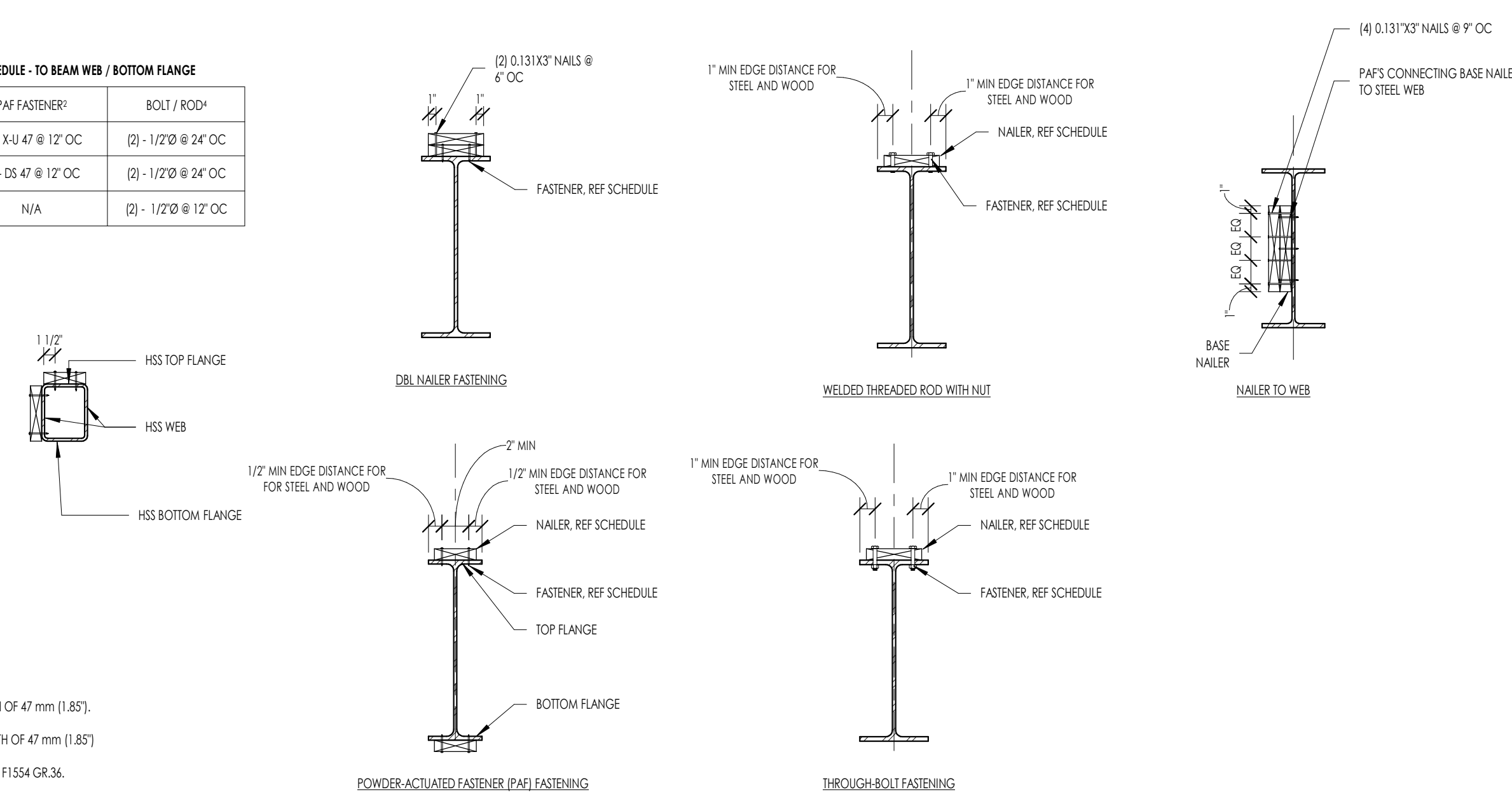
L (ft)	PAF FASTENER	BOLT / ROD*
≤ 0.35	(3) - XU 47 @ 12" OC	(2) - 1/2"Ø @ 24" OC
0.35 < L ≤ 0.44	(3) - DS 47 @ 12" OC	(2) - 1/2"Ø @ 24" OC
L > 0.44	N/A	(2) - 1/2"Ø @ 12" OC

NAILER SCHEDULE - TO BEAM FLANGE

d (in)	NAILER SIZE
≤ 5.5	2x4
5.5 < d ≤ 7.25	2x6
d > 7.25	2x8

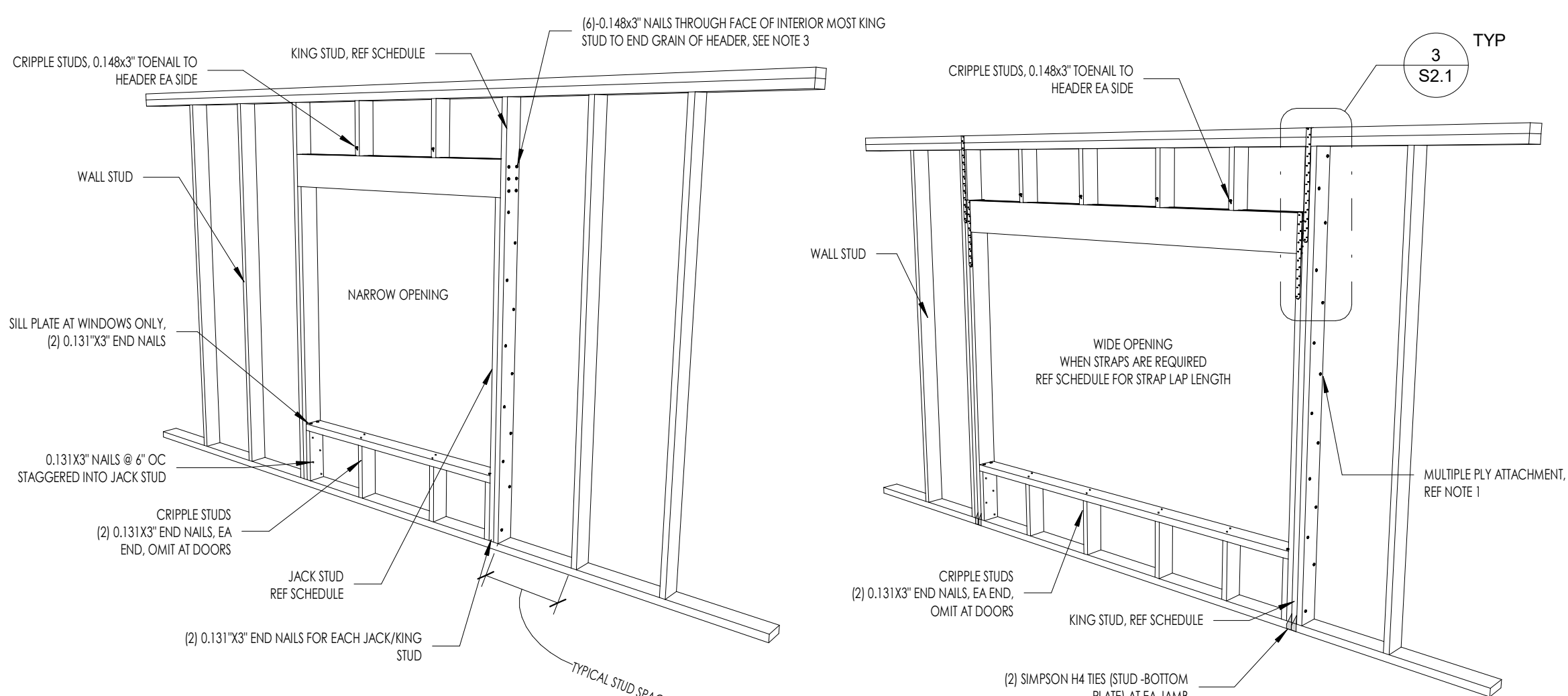
NAILER SCHEDULE - TO BEAM WEB

d (in)	NAILER SIZE
5 < d ≤ 6.75	2x4
6.75 < d ≤ 8.75	2x6
8.75 < d ≤ 10.75	2x10
10.75 < d ≤ 15	(2) - 2x8
15 < d ≤ 19	(2) - 2x10
19 < d ≤ 23	(2) - 2x12
d > 23	(3) - 2x8



10 WOOD NAILER TO TOP OF STRUCTURAL STEEL NOT TO SCALE

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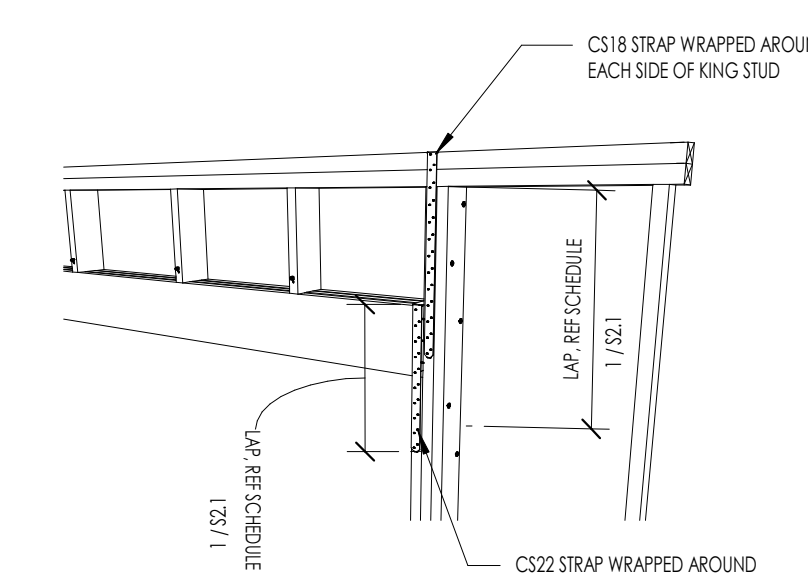
1 TYPICAL EXTERIOR OPENING FRAMING
NOT TO SCALE

ENGINEERING NOTES:
1. ENGINEER MUST REVIEW THE DRAWINGS TO CONFIRM THAT THERE ARE NOT OPENINGS LARGER THAN LISTED IN THE TABLES ABOVE. IF THERE ARE, THEN WE ADD THESE TO OUR SCHEDULE. KEEP IN MIND THE FOLLOWING:
A. THE WIDER THE OPENING, THE MORE LOAD THE KING STUDS MUST BE ABLE TO TAKE IN BENDING.
B. WIND LOADS ARE PRIMARILY TAKEN BY THE JACK STUDS.
C. LOADS NEED TO INCREASE THE STRIP WIDTH OPENING ON THE UPFT FORCE.
IF PROJECT DOES NOT HAVE EXTERIOR WALL SECTIONS LISTED ABOVE THEN DELETE THAT TABLE (MOST PROJECTS ARE USING 2X6 EXTERIOR WALLS FOR INSULATION PURPOSES. IF THIS IS THE CASE THEN DELETE THE 2X4 TABLE.)

OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS					NO. JACK STUDS	STRIP LAP LENGTH (IN)
	PLATE HEIGHT (FT)						
	8	9	10	11	12		
≤3	1	1	1	2	2	1	N/R
4	1	1	2	2	2	1	N/R
5	2	2	2	3	3	1	N/R
6	2	2	3	3	3	1	N/R
7	2	2	3	3	4	1	N/R
8	3	3	3	4	4	2	8
9	3	3	4	4	4	2	8
10	3	3	4	4	4	2	8

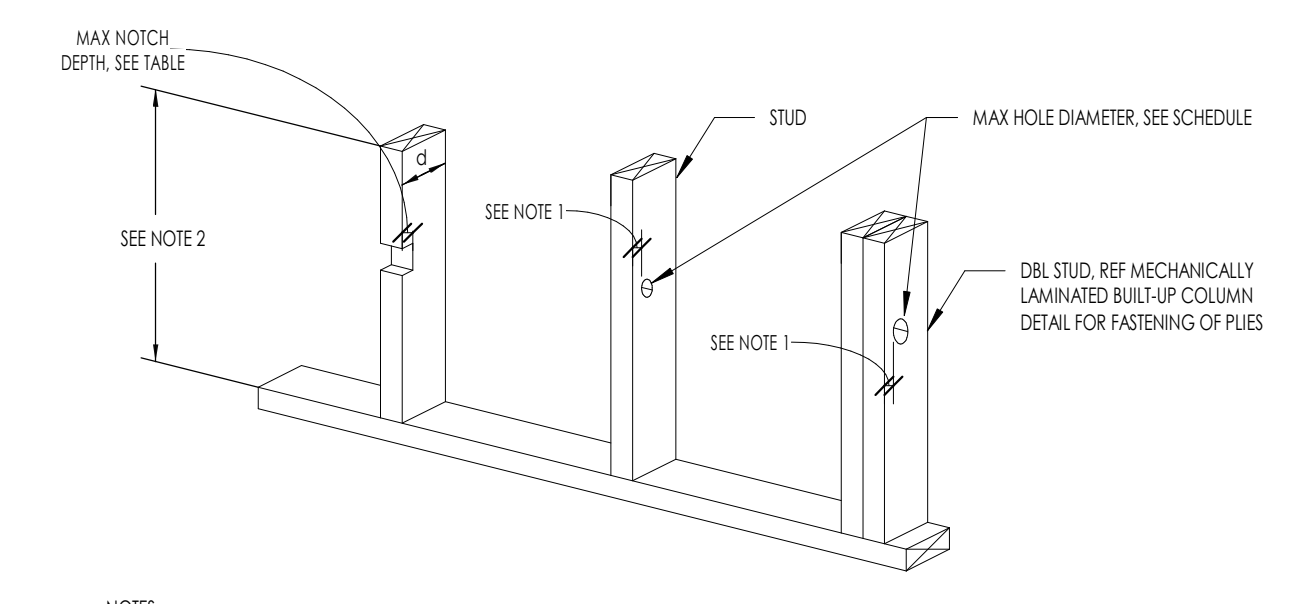
OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS					NO. JACK STUDS	STRIP LAP LENGTH (IN)
	PLATE HEIGHT (FT)						
	8	9	10	11	12		
≤3	1	1	1	1	1	1	N/R
4	1	1	1	1	1	1	N/R
5	1	1	1	1	1	1	N/R
6	1	1	1	2	2	1	N/R
7	1	1	2	2	2	1	N/R
8	1	1	2	2	2	2	8
9	1	2	2	2	2	2	8
10	1	2	2	2	3	2	8

NOTES:
1. WALLTIE PILES MUST BE ATTACHED PER THE MECHANICALLY LAMINATED BUILT-UP COLUMN, NAILED DETAIL.
2. TABLE IS BASED OFF AN HORIZONTAL WIND PRESSURE OF 20 PSF AND GRAVITY LOADING OF 200 PLF.
3. NAILS MUST BE CONSIDERED ON THE INDIVIDUAL PILES OF THE HEADER.
4. N/R = NOT REQUIRED. IF N/R, THEN REFERENCE NARROW OPENING DIAGRAM FOR CONNECTION REQUIREMENTS, OTHERWISE REFERENCE THE WIDE OPENING DIAGRAM.

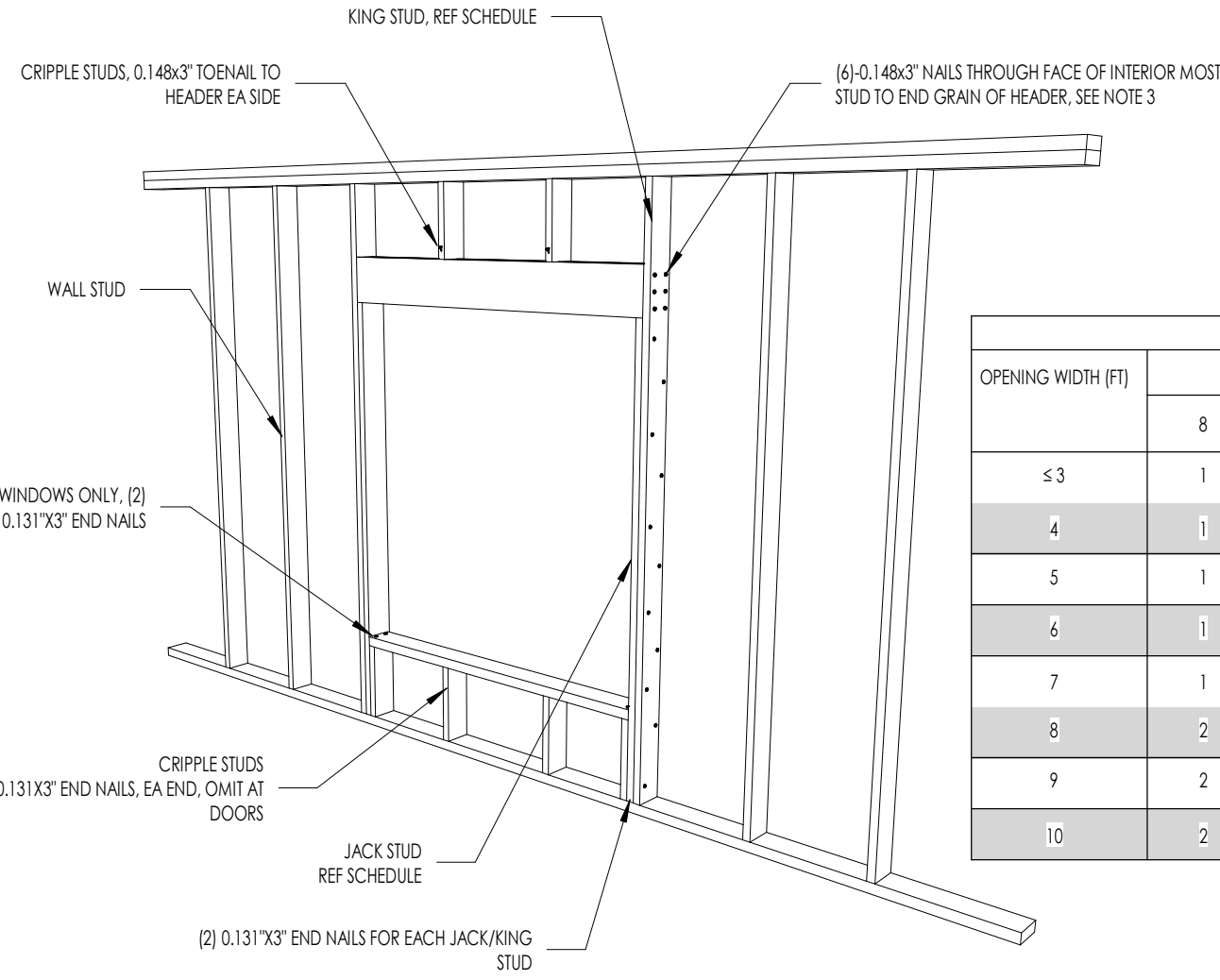


3 TYPICAL STRAP AT WIDE EXTERIOR OPENINGS
NOT TO SCALE

STUD SIZE	MAX HOLE Ø	MAX NOTCH
2x4	2"	1.38"
2x6	3 1/4"	2.316"
DBL - 2x4	2"	1.38"
DBL - 2x6	3 1/4"	2.316"



8 ALLOWABLE STUD NOTCHING AND BORING IN INTERIOR NON-LOAD BEARING WALLS
NOT TO SCALE

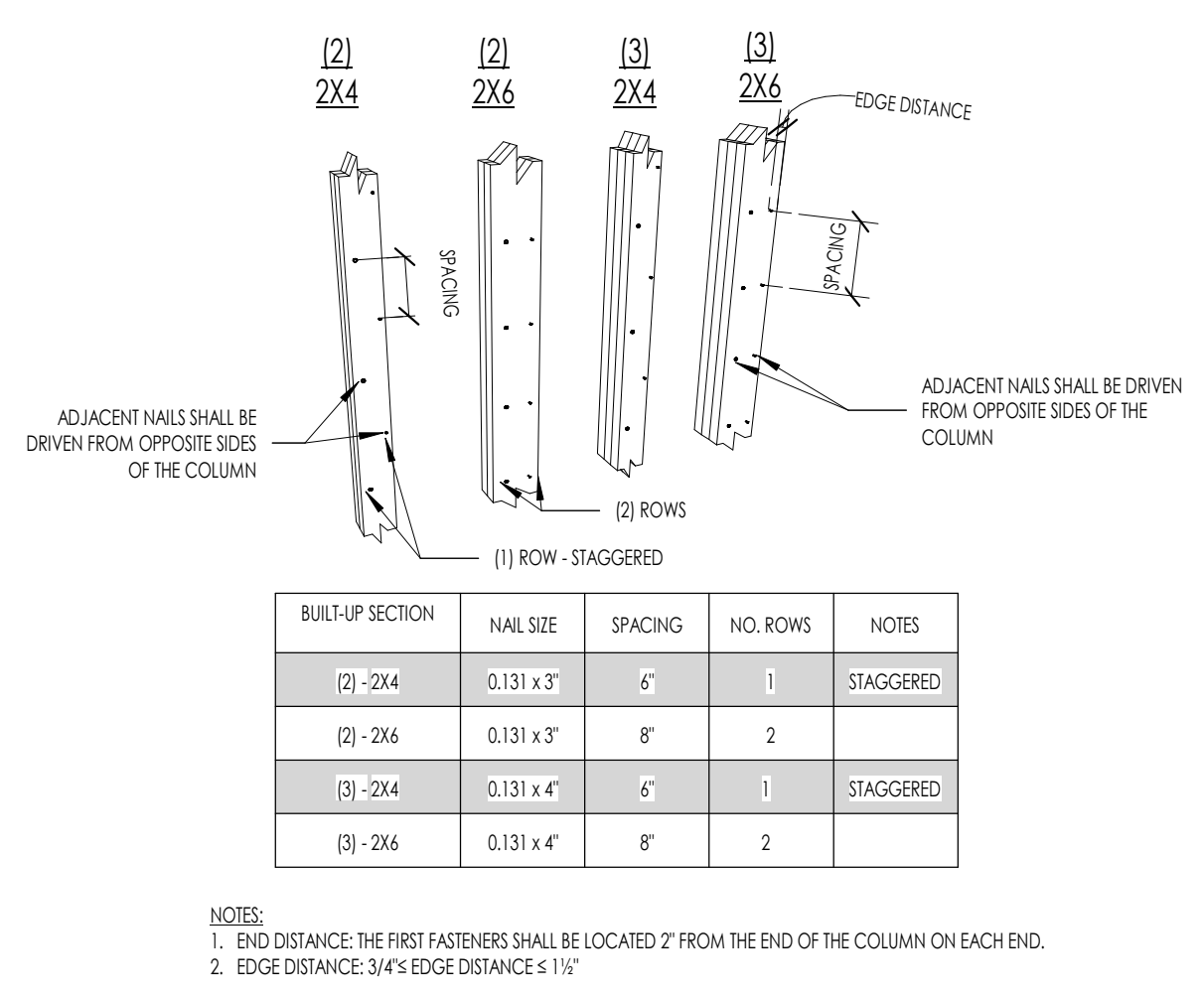


5 TYPICAL INTERIOR OPENING FRAMING
NOT TO SCALE

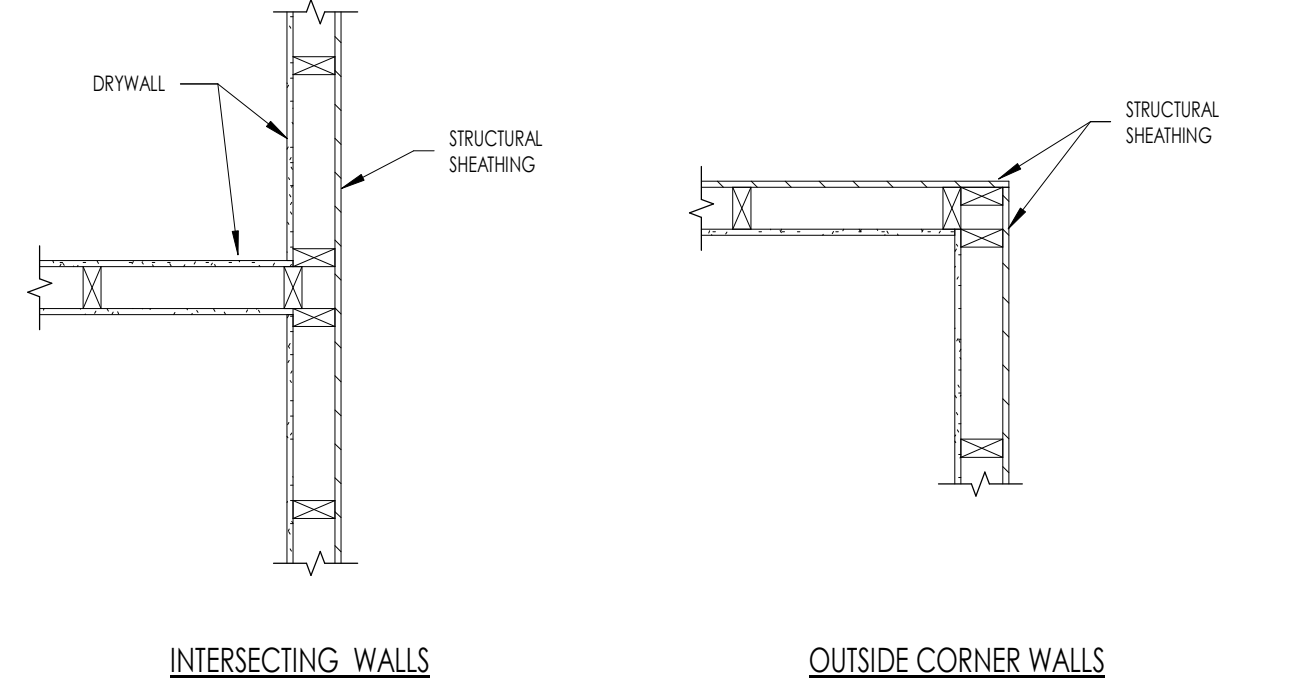
OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS					NO. JACK STUDS
	PLATE HEIGHT (FT)					
	8	9	10	11	12	
≤3	1	1	1	1	1	1
4	1	1	1	1	1	1
5	1	1	1	2	2	1
6	1	1	2	2	2	1
7	1	1	2	2	3	1
8	2	2	2	3	3	2
9	2	2	3	3	3	2
10	2	2	3	3	3	2

OPENING WIDTH (FT)	REQUIRED NO. OF KING STUDS					NO. JACK STUDS	HEADER SIZE	
	PLATE HEIGHT (FT)						2x4 STUD WALL	2x6 STUD WALL
	8	9	10	11	12			
≤3	1	1	1	1	1	1	228H	326H
4	1	1	1	1	1	1	228H	326H
5	1	1	1	2	2	1	228H	326H
6	1	1	2	2	2	1	228H	326H
7	1	1	2	2	3	1	228H	326H
8	2	2	2	3	3	1	2210H	3210H
9	2	2	2	3	3	1	2210H	3210H
10	2	2	3	3	3	1	2210H	3210H

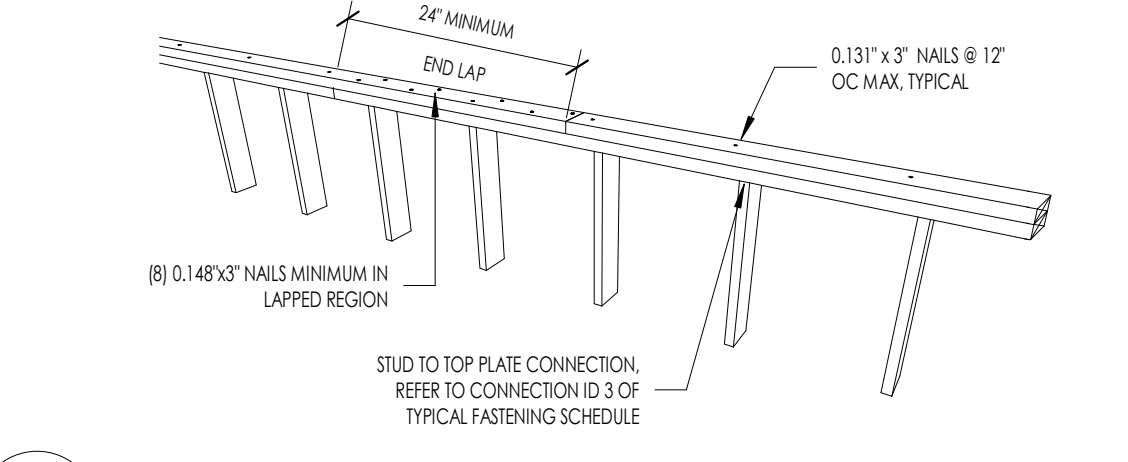
NOTES:
1. LOAD BEARING WALLS AND ASSOCIATED HEADERS ARE INDICATED ON PLAN.



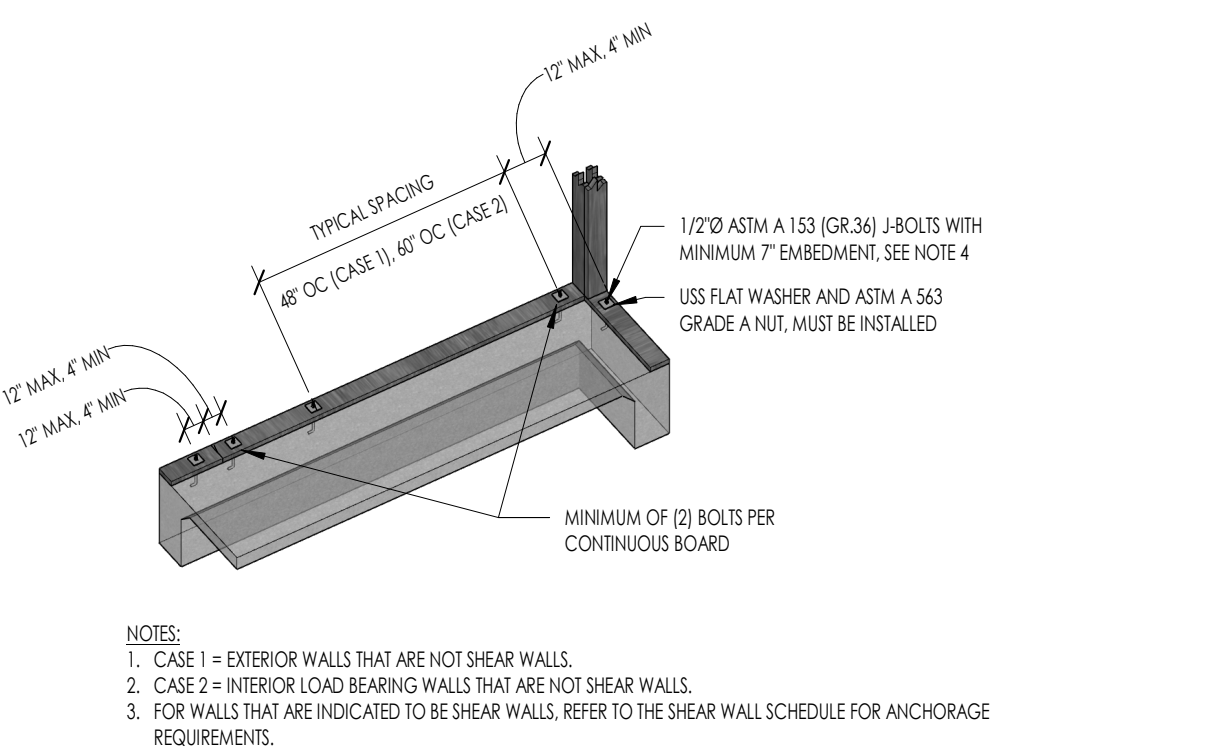
7 MECHANICALLY LAMINATED BUILT-UP COLUMN (STUD PACK) - NAILED
NOT TO SCALE



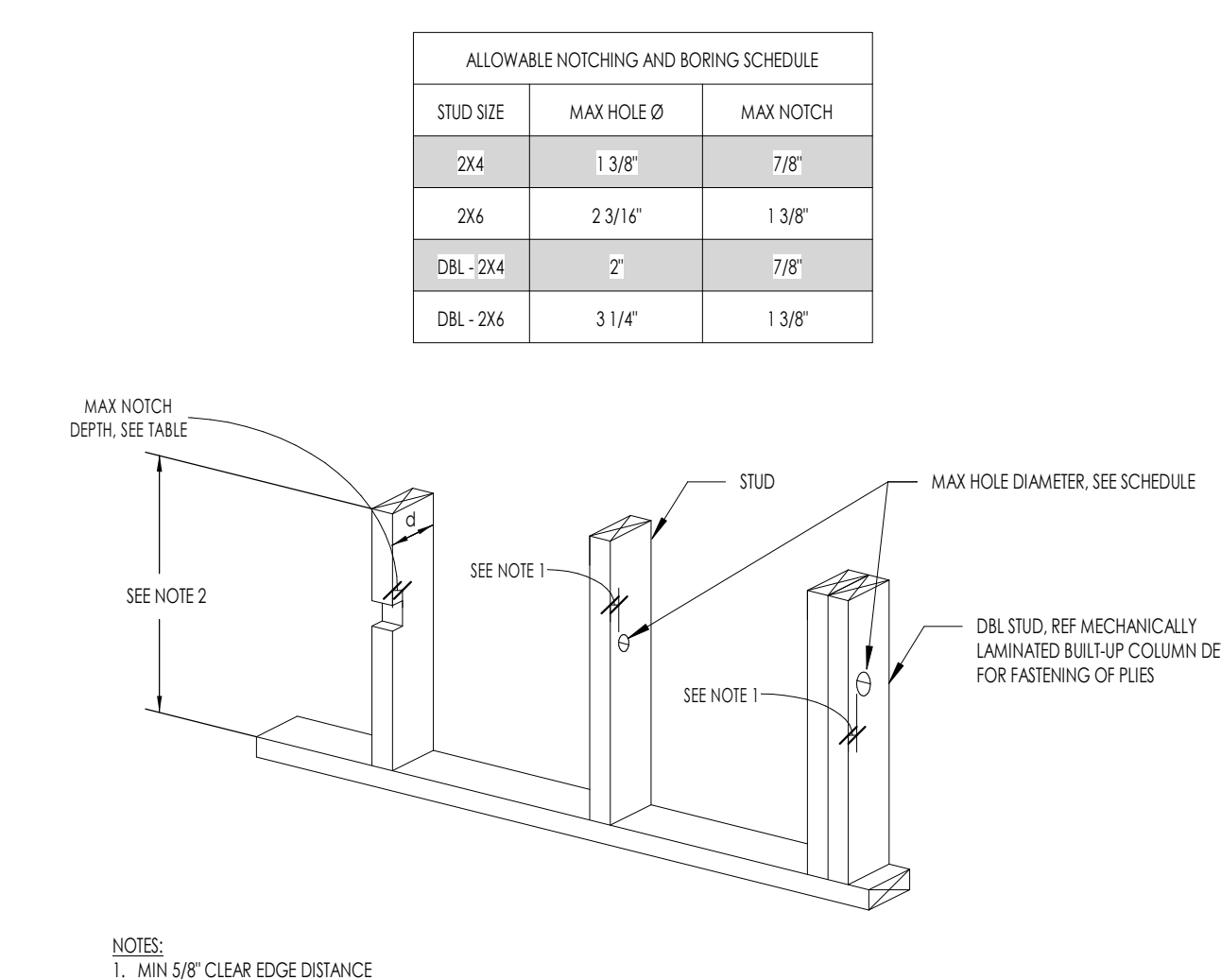
9 TYPICAL CORNER AND INTERSECTION WALL STUDS (NOT AT SHEAR WALL)
NOT TO SCALE



10 TYPICAL LOAD BEARING / SHEAR WALL DOUBLE TOP PLATE SPLICE
NOT TO SCALE



11 TYPICAL BOTTOM PLATE ANCHORAGE
NOT TO SCALE



4 ALLOWABLE STUD NOTCHING AND BORING IN EXTERIOR & LOAD BEARING WALLS
NOT TO SCALE

RENOVATION
Wranglers

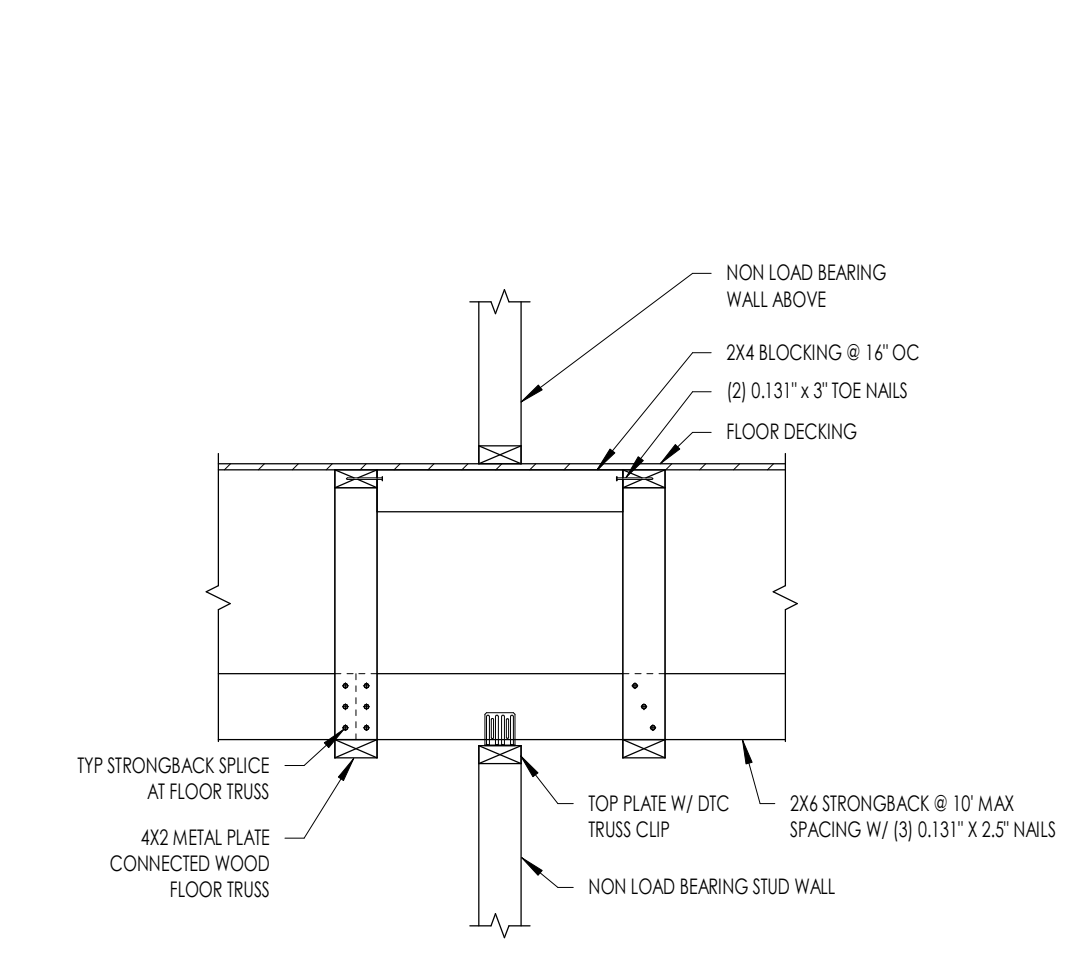
Owner: Renovation Wranglers
102 E 26th St
Bryan, TX 77803
kate@renovations.com | 979.450.9969

ARCHITECTURE
Architect of Record: LKB Architecture
2929 Allen Pkwy Suite 200
Houston, TX 77019
isa@lkbarchitecture.com | 713.425.3076

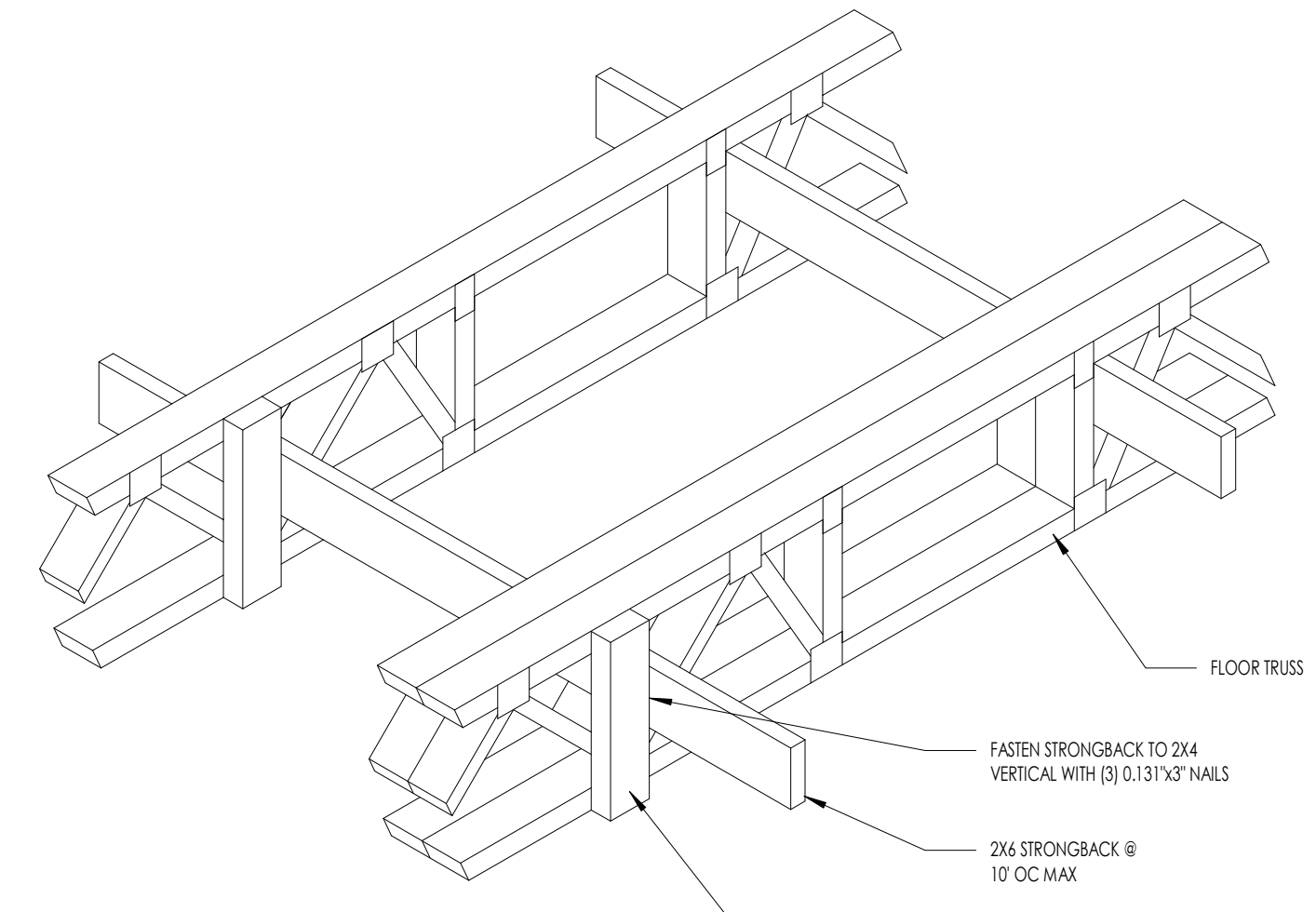
DUDDLEY
Structural: Dudley
4102 Imperial Loop Drive
College Station, TX 77845
(979) 777-0720

amec
ENGINEERS
MEP: AMC Engineers
508 E Jackson St # 552
Burnet, TX 78611
info@amcengineers.com

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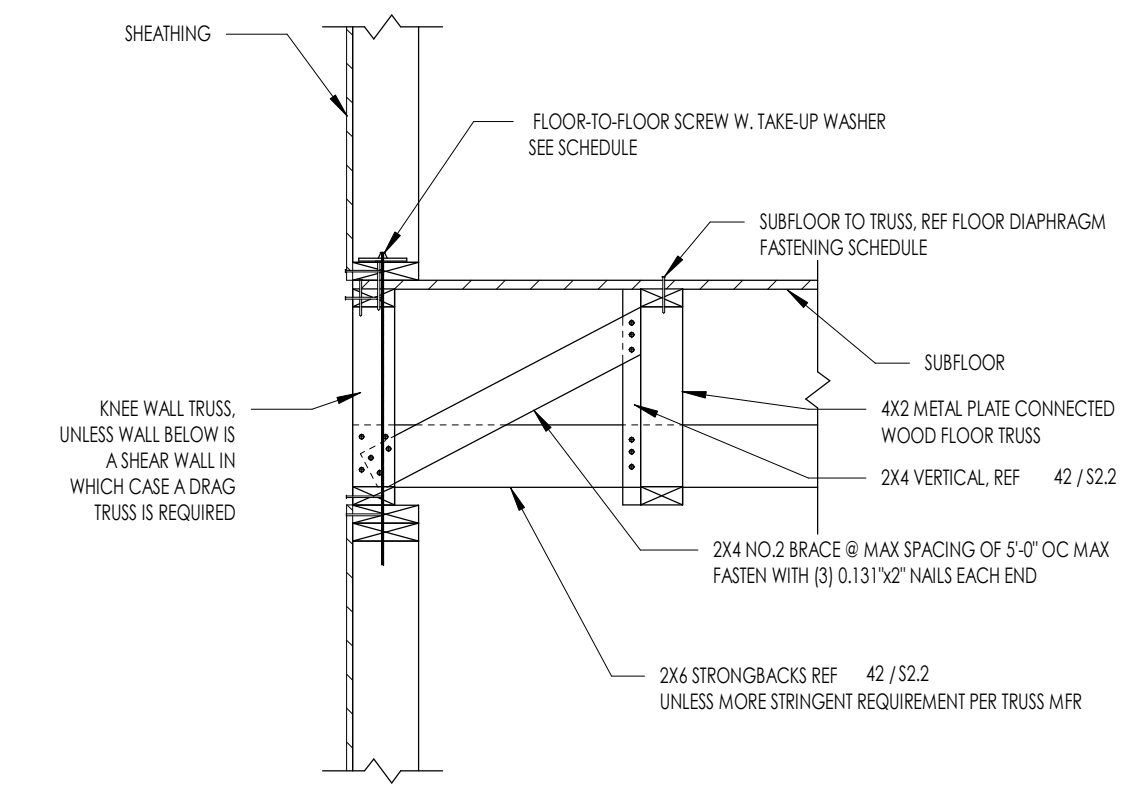
10 TYPICAL NON-LOAD BEARING WALL PARALLEL TO FLOOR TRUSSES
NOT TO SCALE



42 TYPICAL TRUSS STRONGBACK
NOT TO SCALE

FLOOR TO FLOOR SCREW SCHEDULE

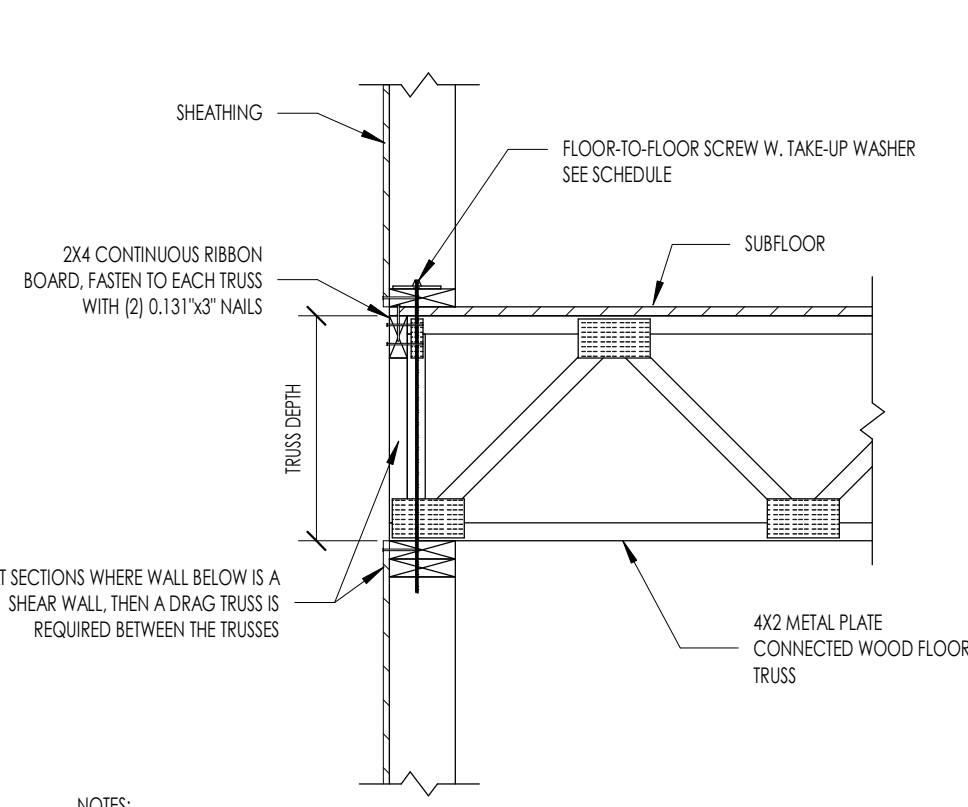
12' < TRUSS DEPTH ≤ 14'	SIMPSON SDWF2720-T/W
14' < TRUSS DEPTH ≤ 18'	SIMPSON SDWF2726-T/W
18' < TRUSS DEPTH ≤ 24'	SIMPSON SDWF2730-T/W



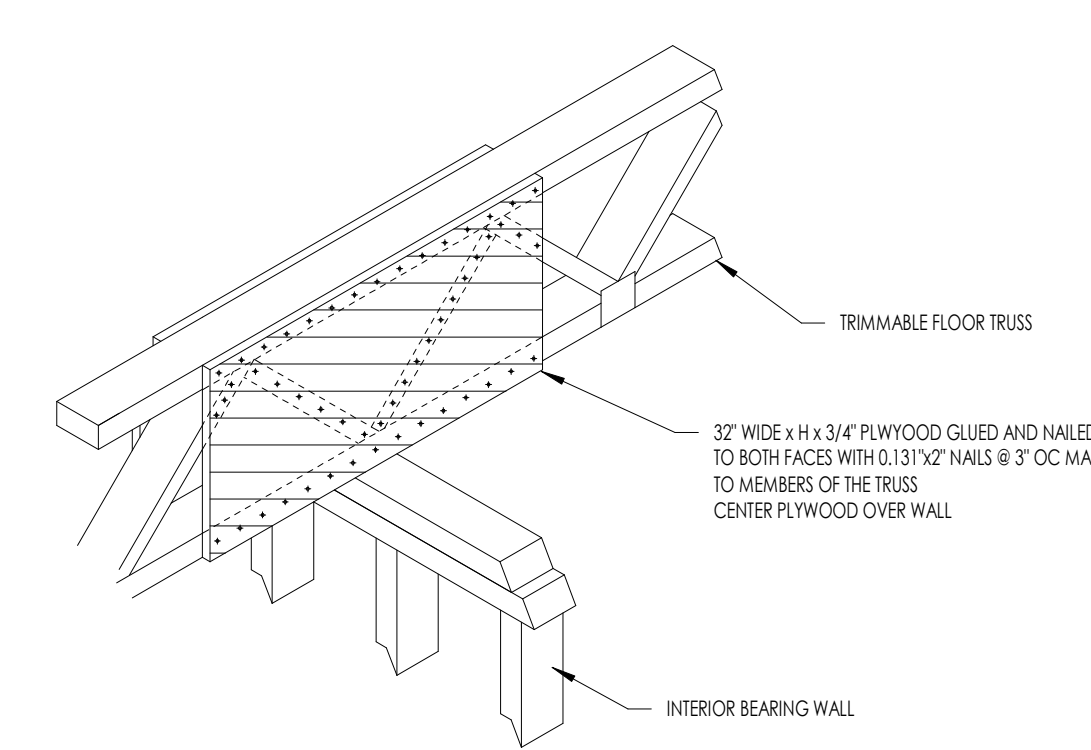
51 TYPICAL FLOOR TRUSS PARALLEL TO EXTERIOR WALL - MULTI-STORY
NOT TO SCALE

FLOOR TO FLOOR SCREW SCHEDULE

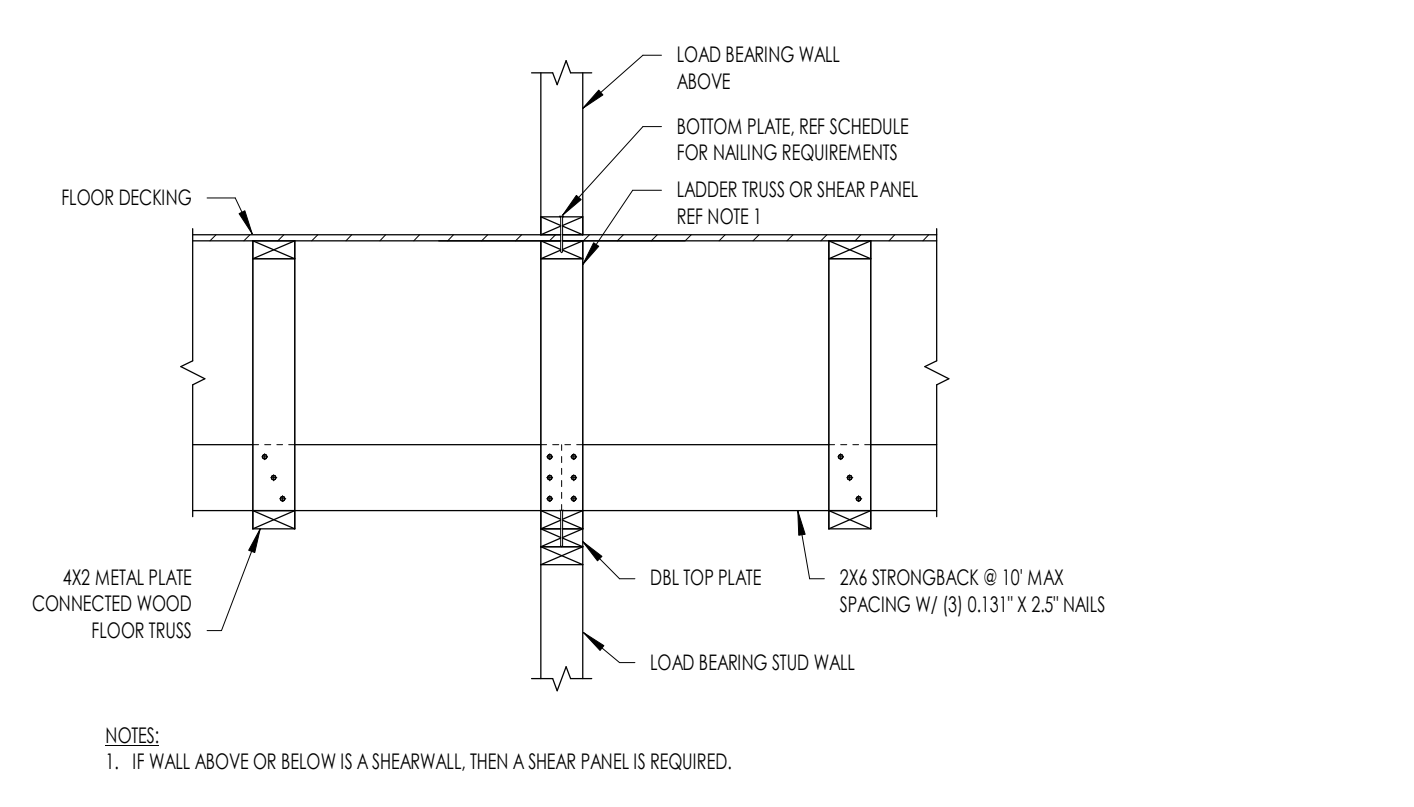
12' < TRUSS DEPTH ≤ 14'	SIMPSON SDWF2720-T/W
14' < TRUSS DEPTH ≤ 18'	SIMPSON SDWF2726-T/W
18' < TRUSS DEPTH ≤ 24'	SIMPSON SDWF2730-T/W



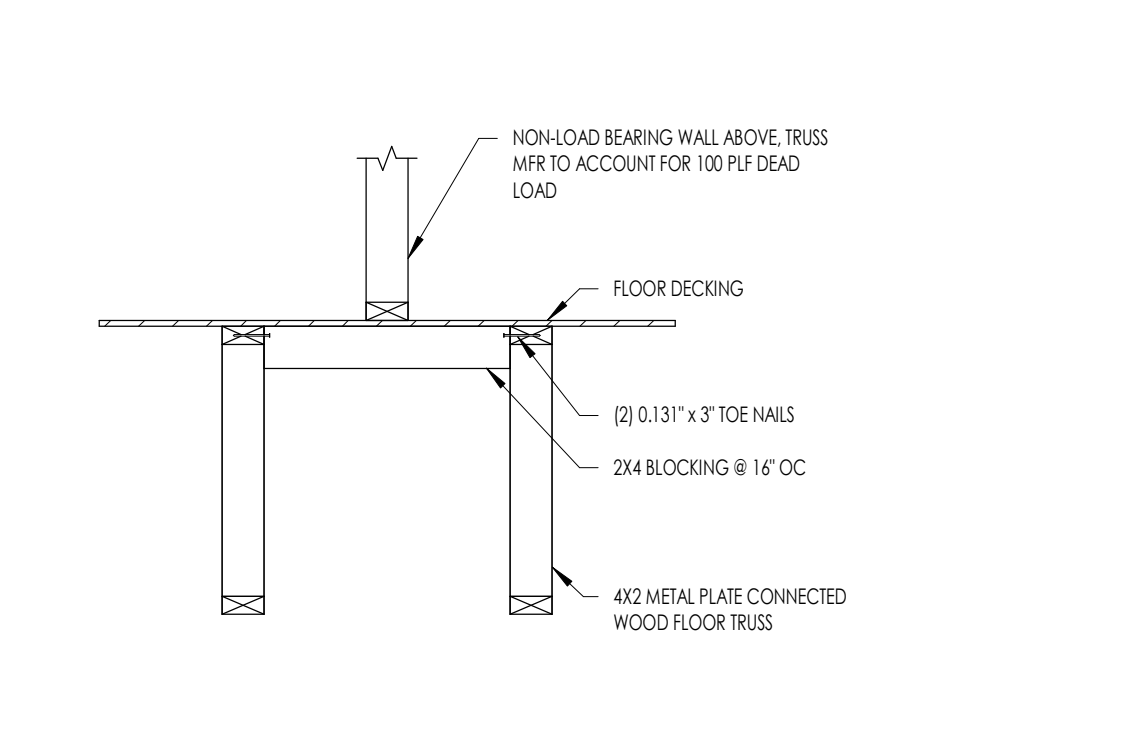
50 TYPICAL BOTTOM CHORD BEARING ON EXTERIOR WALL - MULTI-STORY
NOT TO SCALE



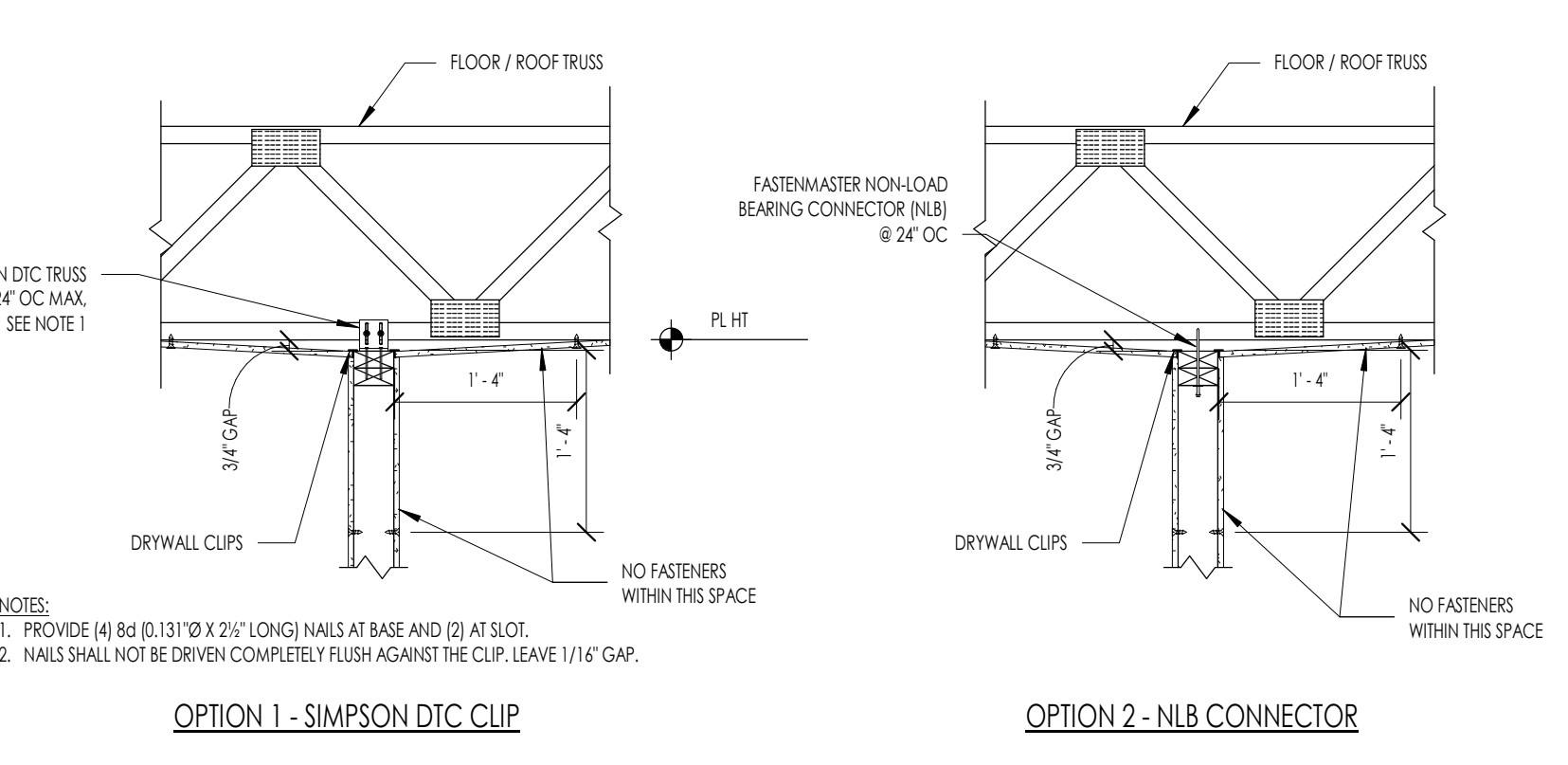
64 TYPICAL TRIMMABLE TRUSS STEIFFENING AT INTERIOR SUPPORT
NOT TO SCALE



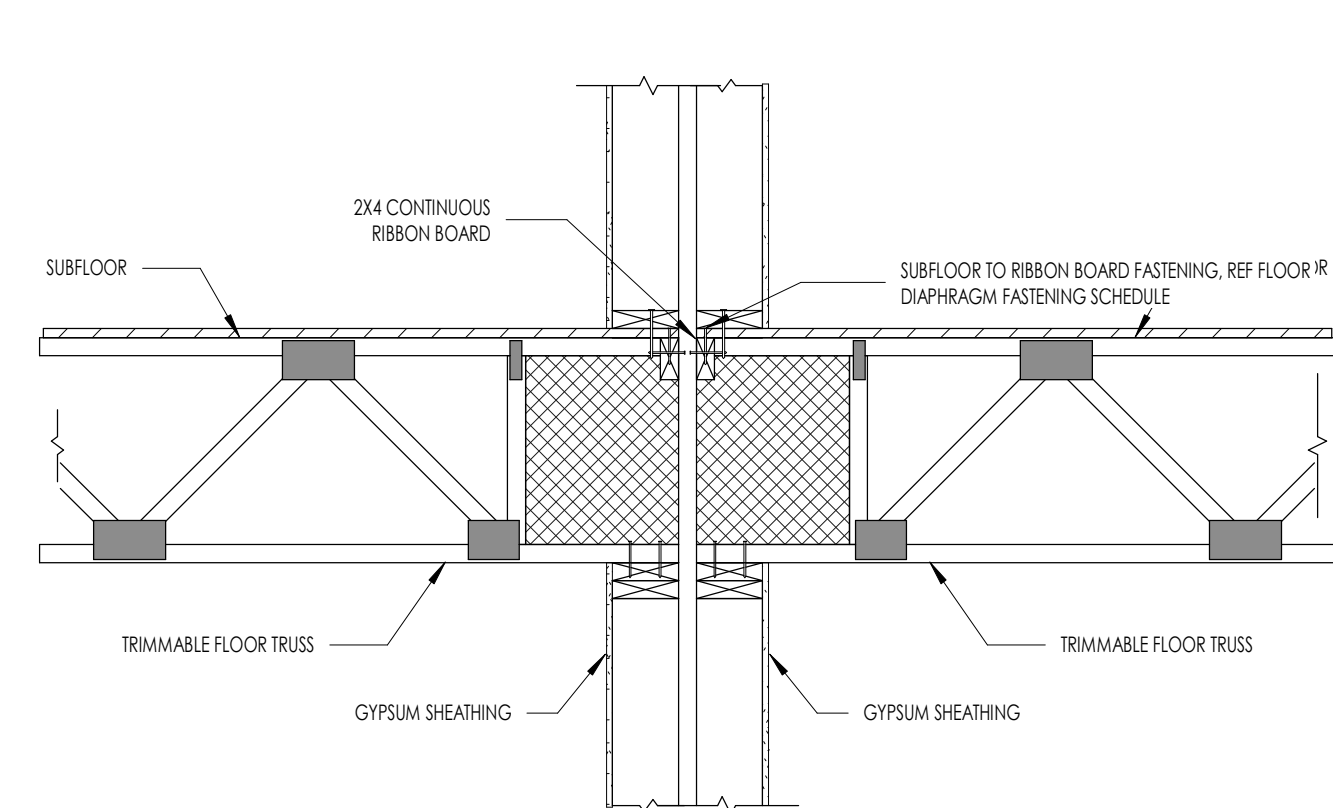
9 TYPICAL LOAD BEARING WALL PARALLEL TO FLOOR TRUSSES
NOT TO SCALE



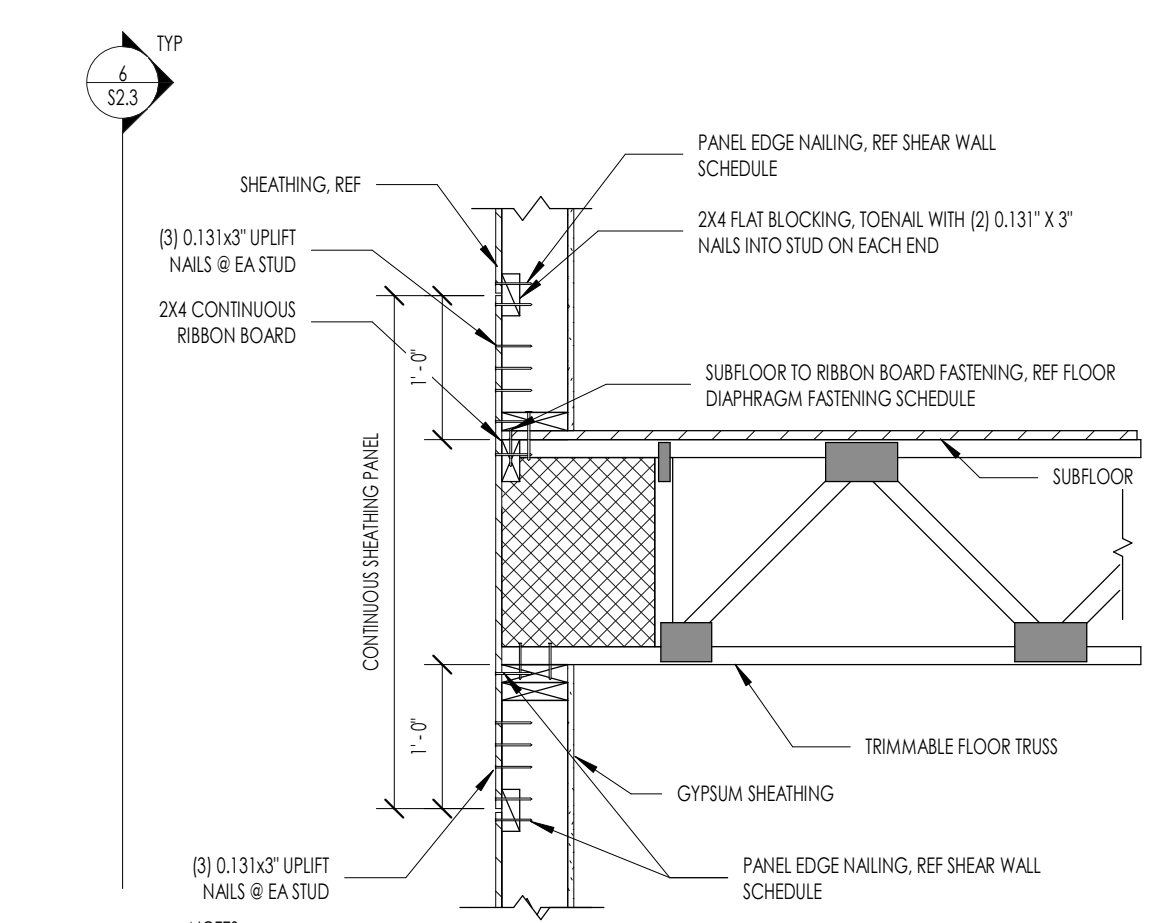
8 TYPICAL NON-LOAD BEARING WALL PARALLEL TO FLOOR TRUSS
NOT TO SCALE



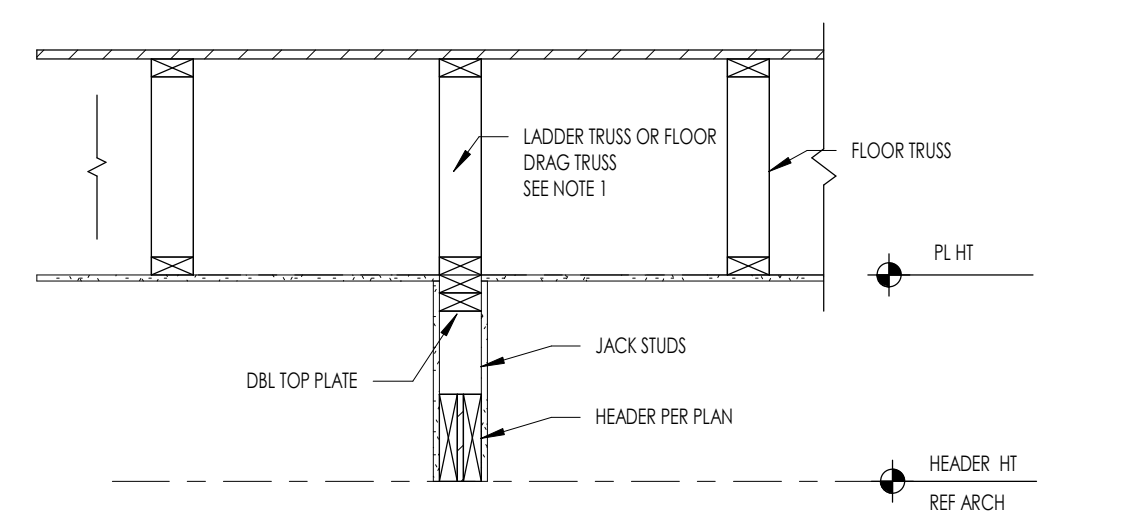
7 TYPICAL NON-LOAD BEARING WALL ATTACHMENT TO PERPENDICULAR FLOOR TRUSS
NOT TO SCALE



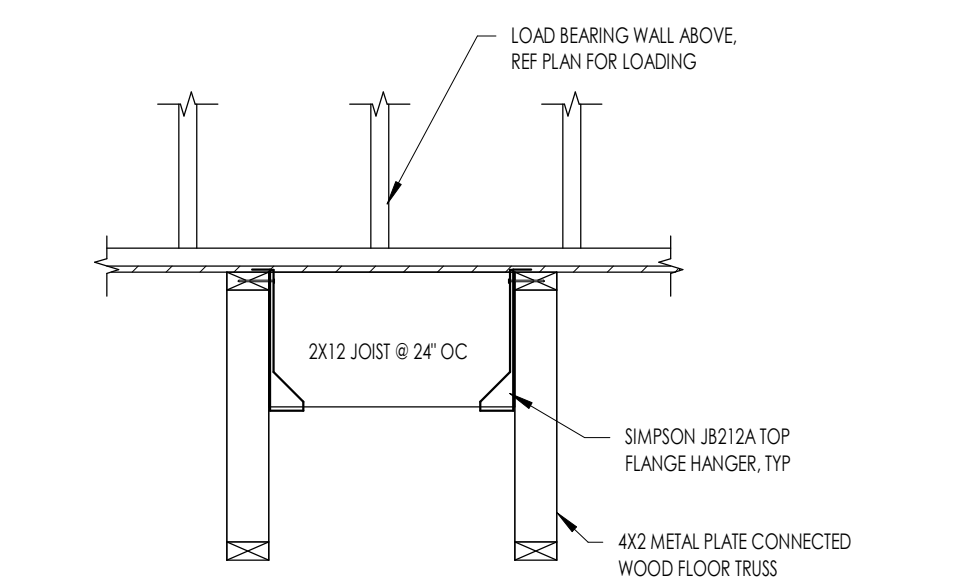
61 TYPICAL INTERIOR BOTTOM CHORD BEARING AT PARTY WALL
NOT TO SCALE



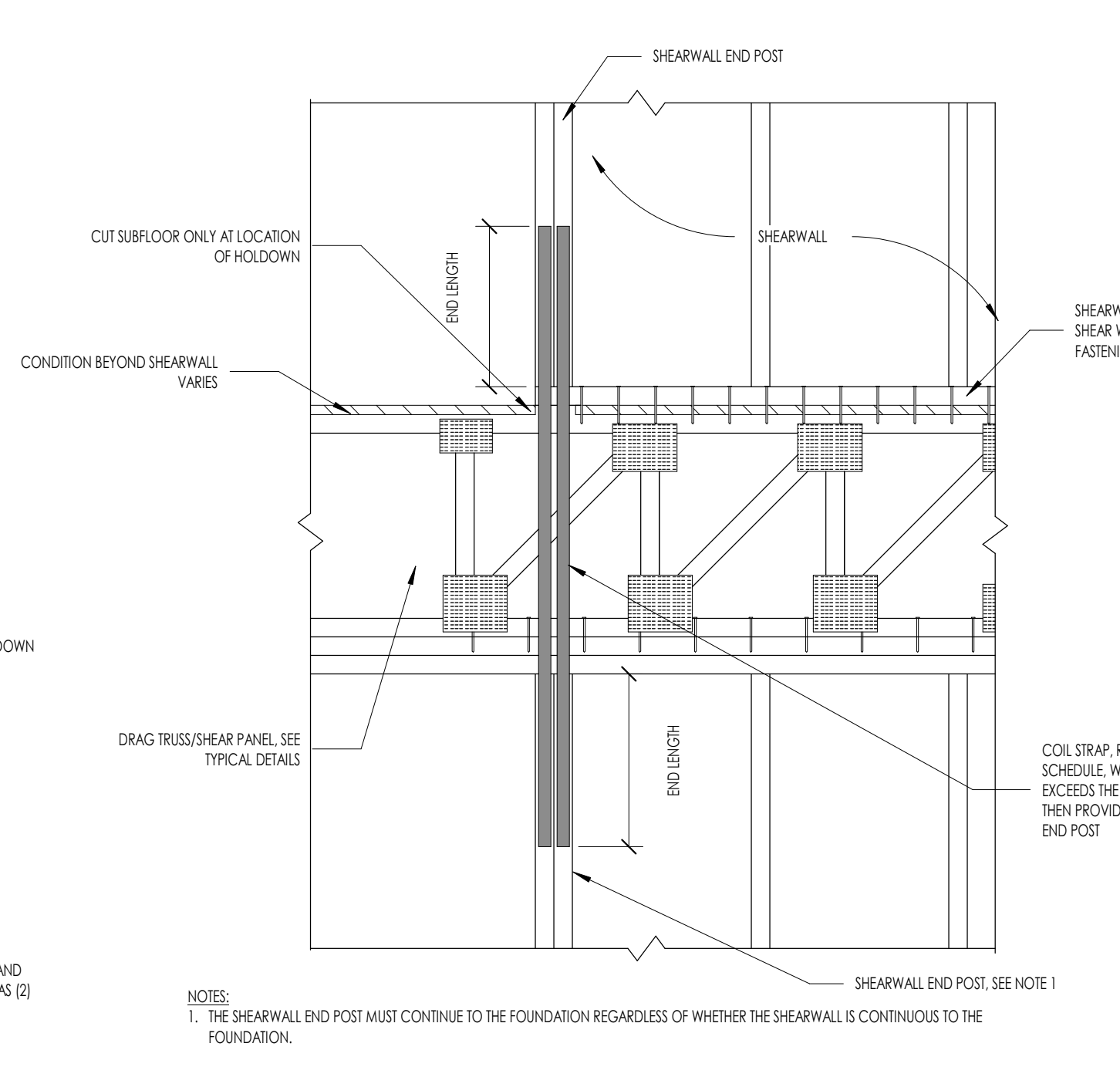
59 061760 FLOOR - TRIMMABLE TRUSS BOTTOM CHORD BEARING ON EXTERIOR WALL
NOT TO SCALE



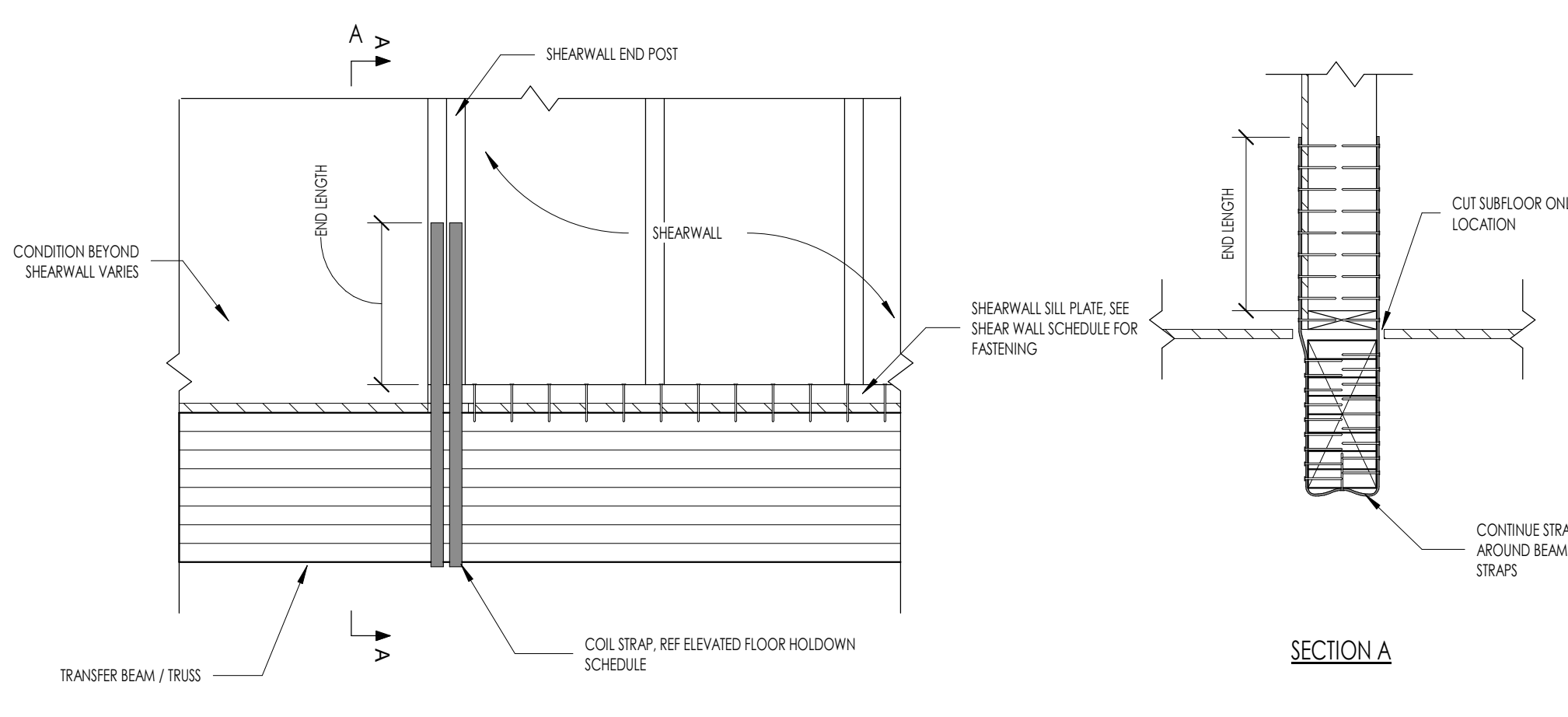
16 TYPICAL LOAD BEARING HEADER PARALLEL TO FLOOR TRUSSES
NOT TO SCALE



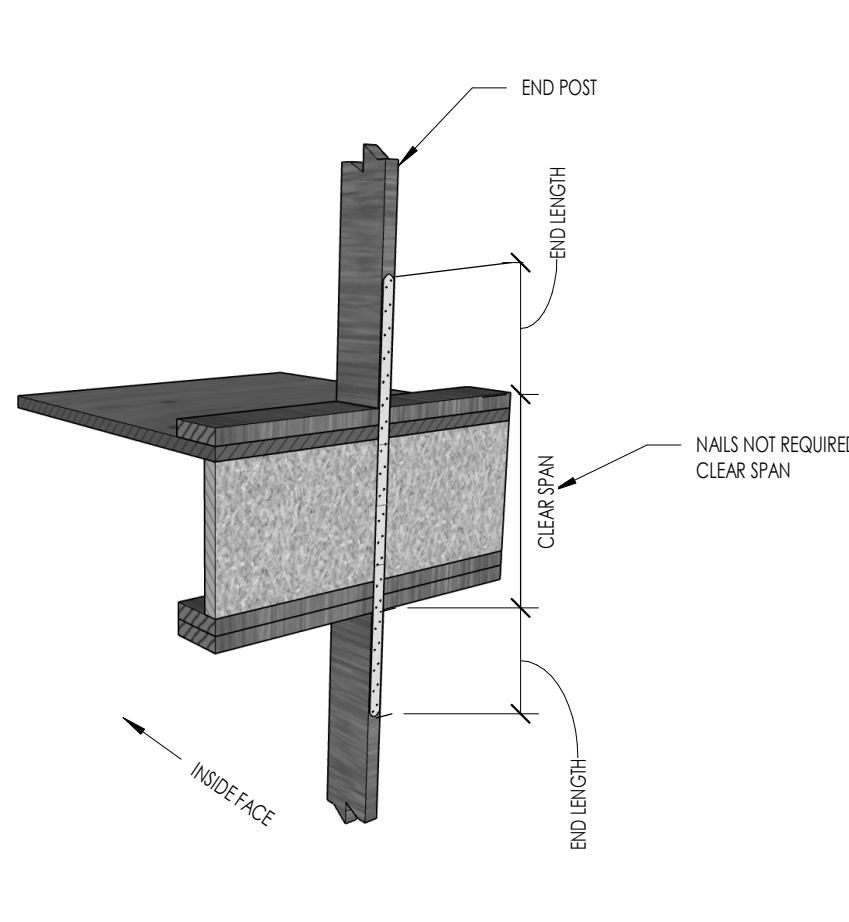
43 TYPICAL LOAD BEARING WALL PERP. TO FLOOR TRUSS
NOT TO SCALE



65 TYPICAL SHEARWALL HOLDDOWN AT ELEVATED FLOOR
NOT TO SCALE



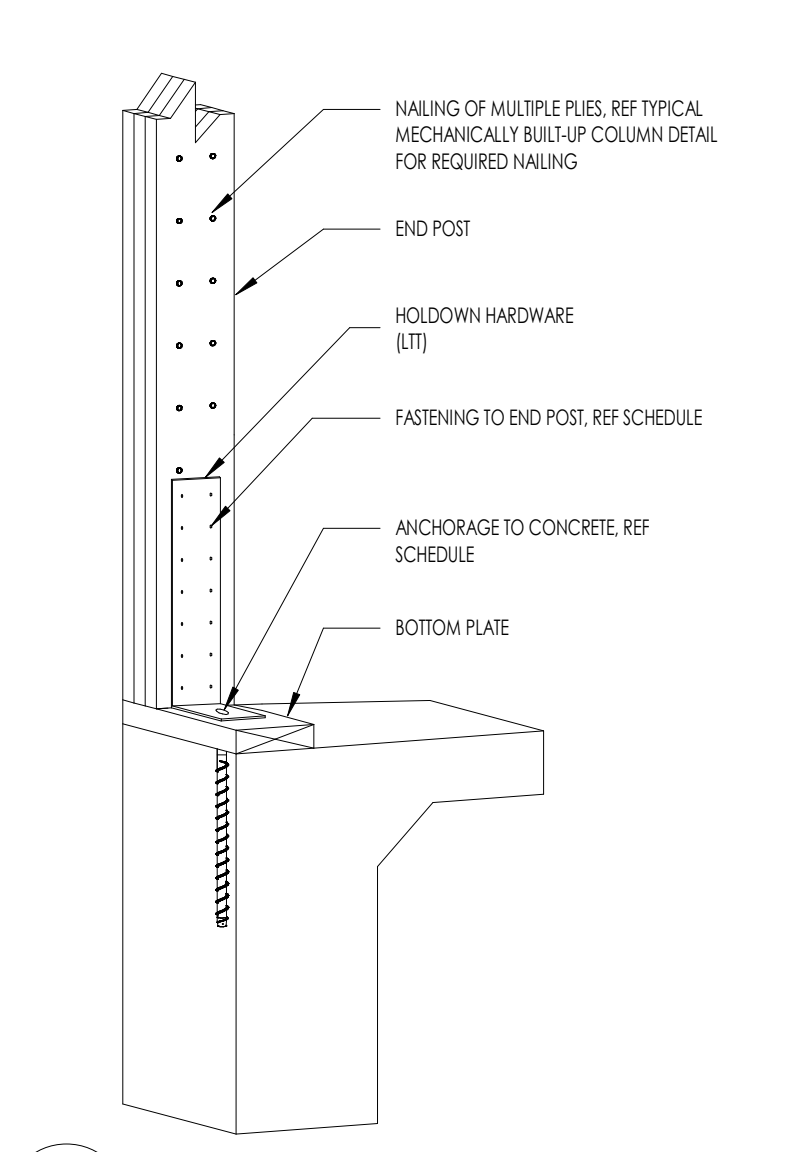
HOLDOWN AT INTERIOR SHEAR WALL THAT IS TRANSFERRED



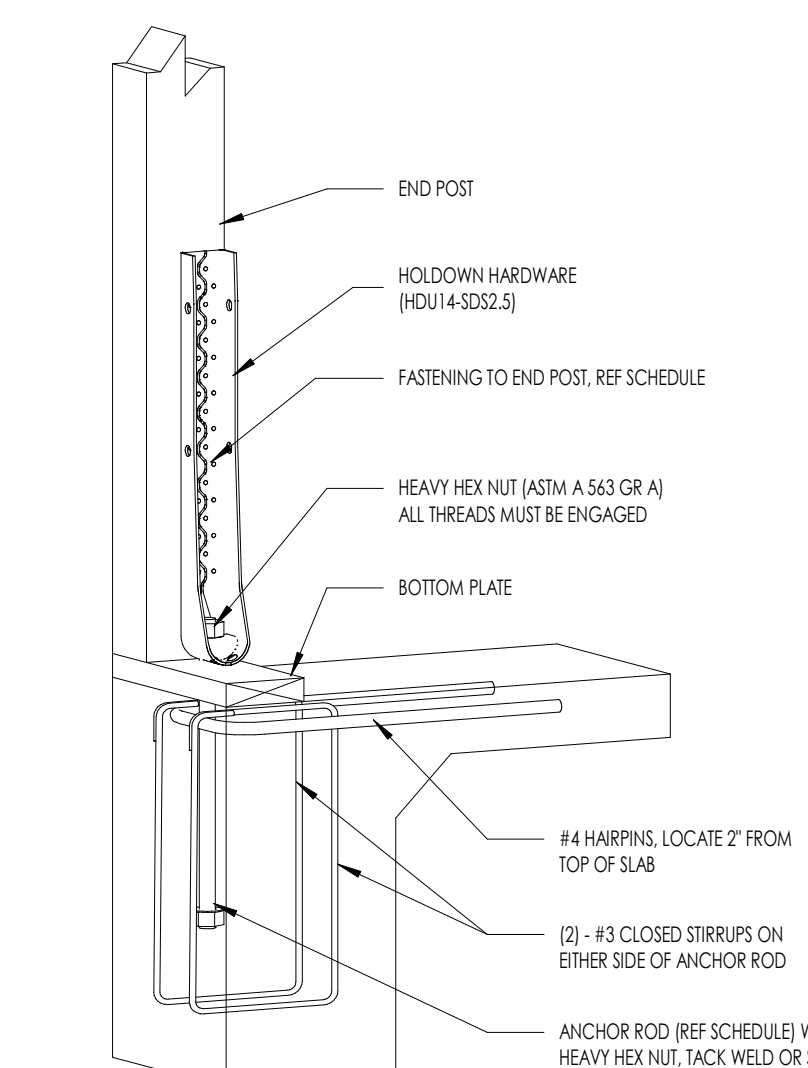
HOLDOWN AT EXTERIOR SHEAR WALL

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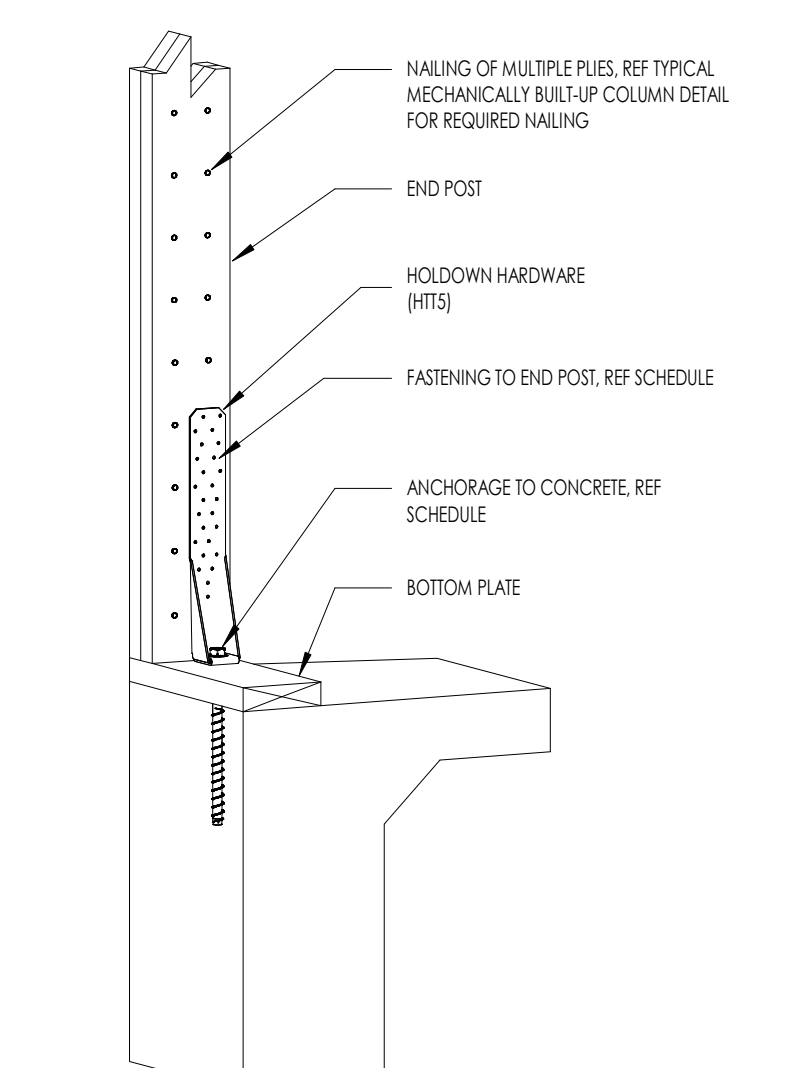
Date	Description



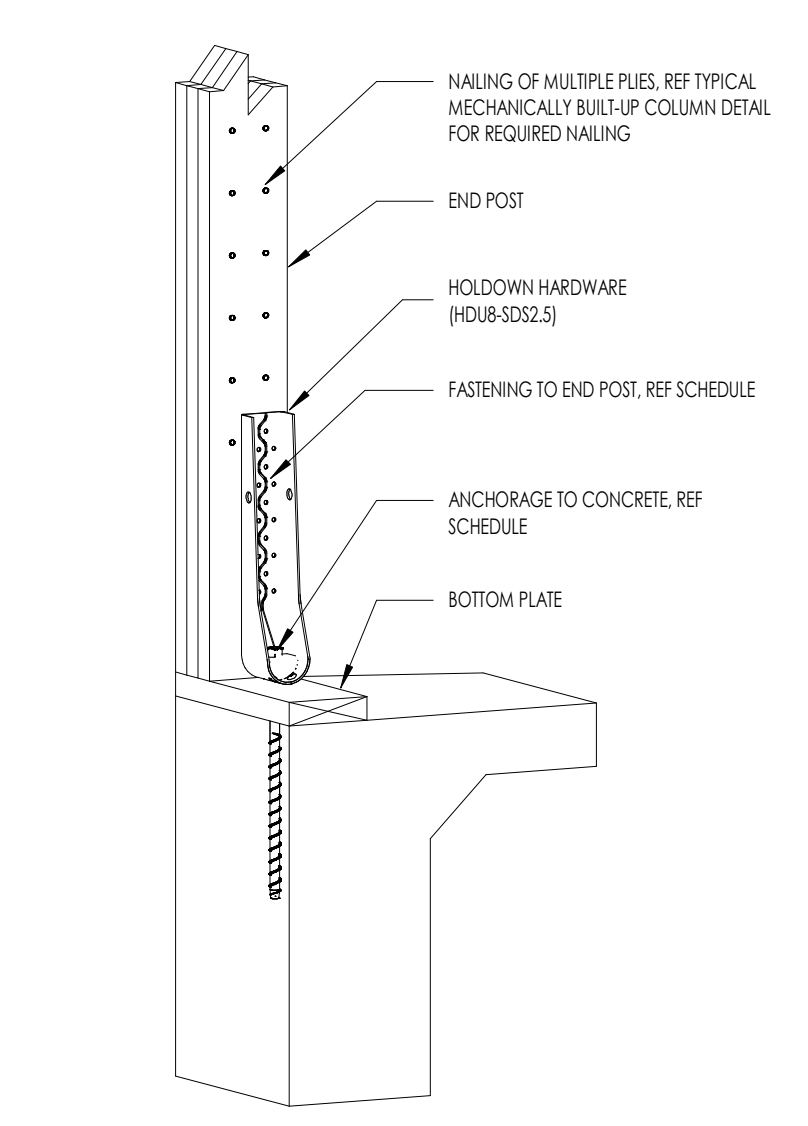
14 LTT HOLDOWN
NOT TO SCALE



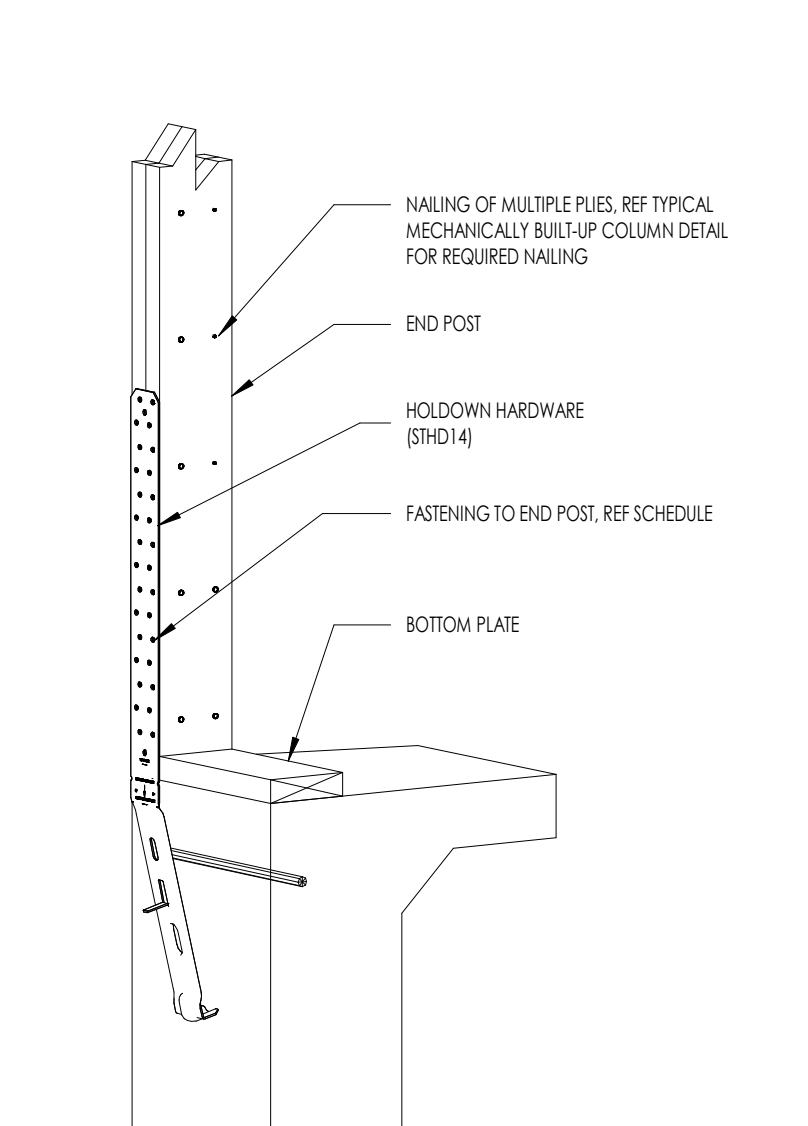
8 HDU1.4-SDS2.5 HOLDOWN
NOT TO SCALE



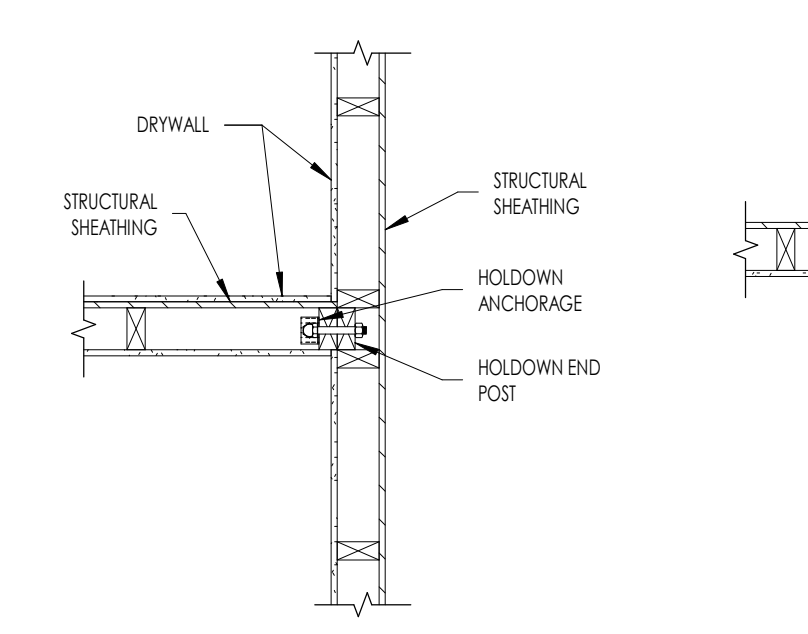
9 HTS HOLDOWN
NOT TO SCALE



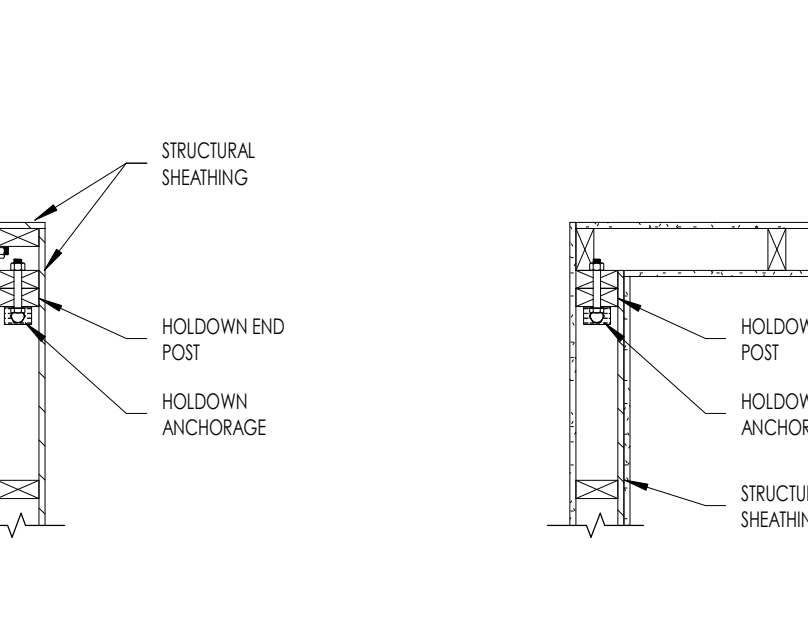
7 HDU8-SDS2.5 HOLDOWN
NOT TO SCALE



1 STHD1.4 HOLDOWN
NOT TO SCALE



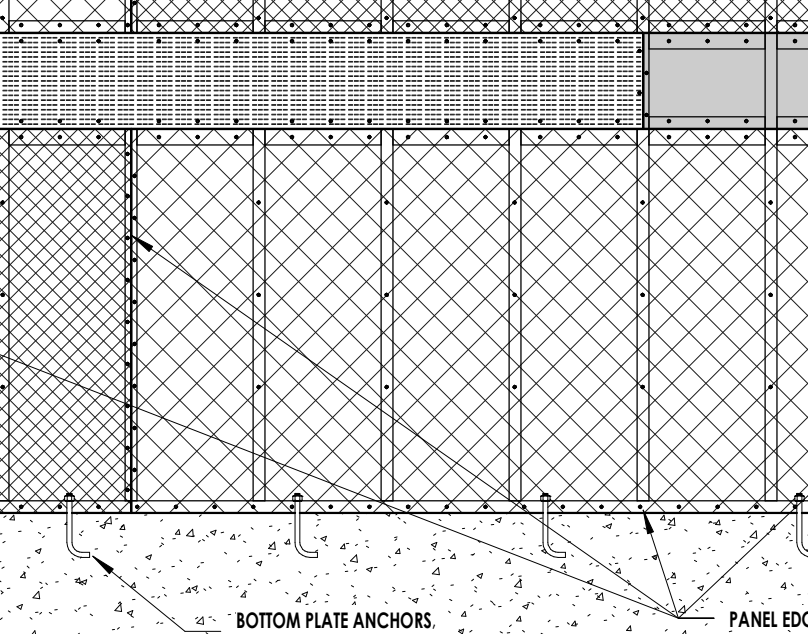
3 SHEAR WALL - END POST CONFIGURATIONS
NOT TO SCALE



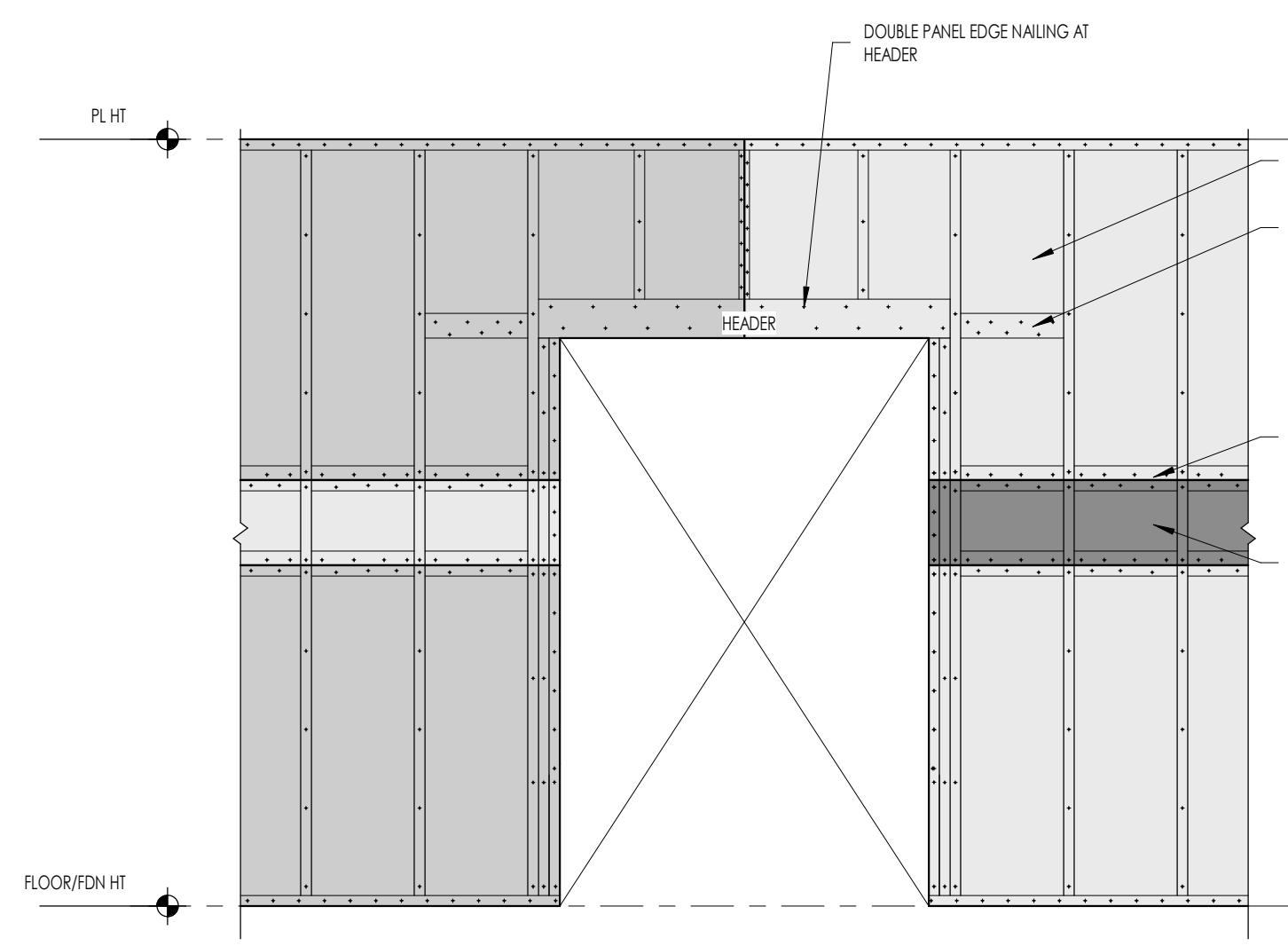
INTERSECTING SHEAR WALLS



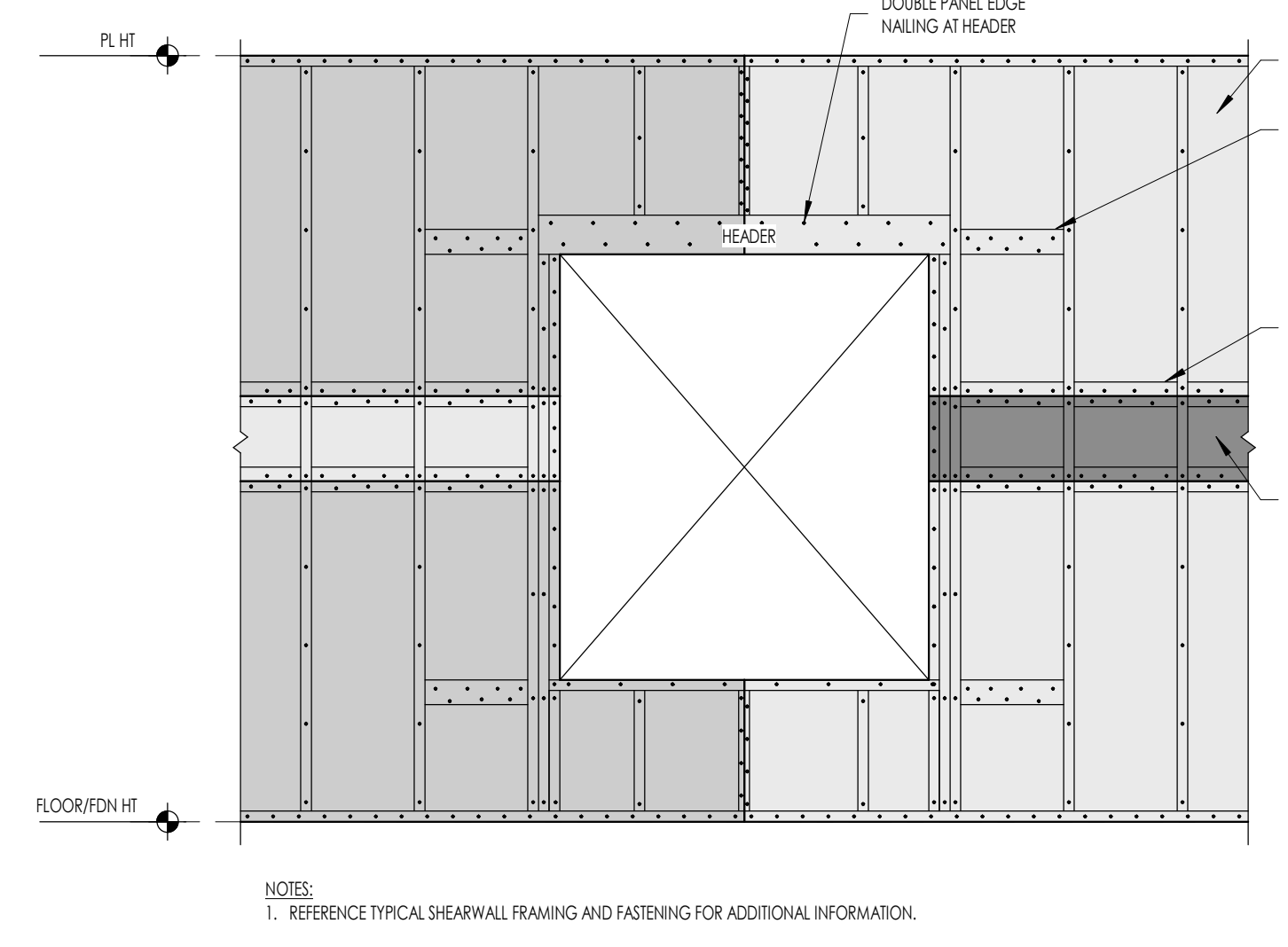
OUTSIDE CORNER SHEAR WALLS



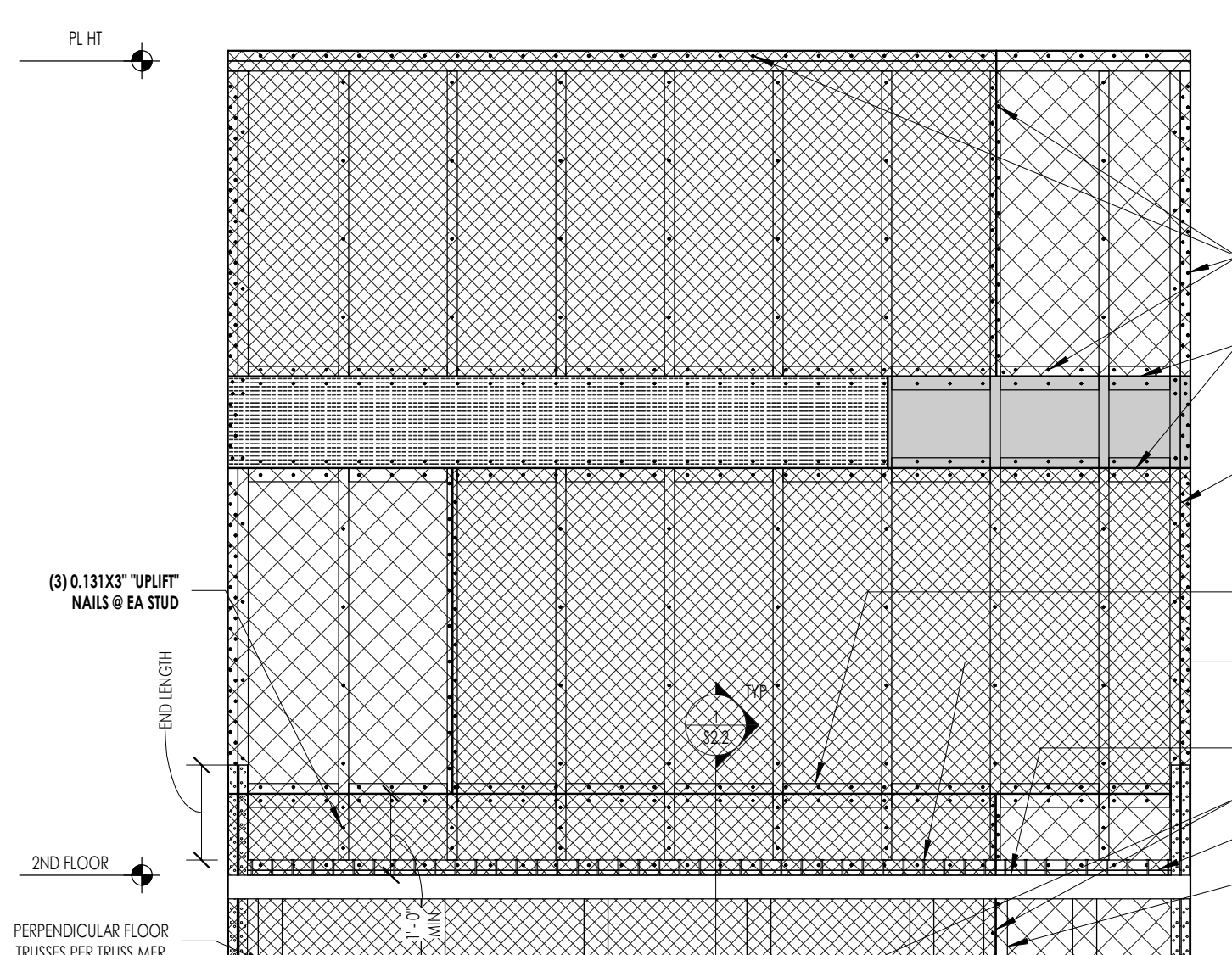
INTERIOR SHEAR WALL INTERSECTION WITH NON-SHEAR WALL



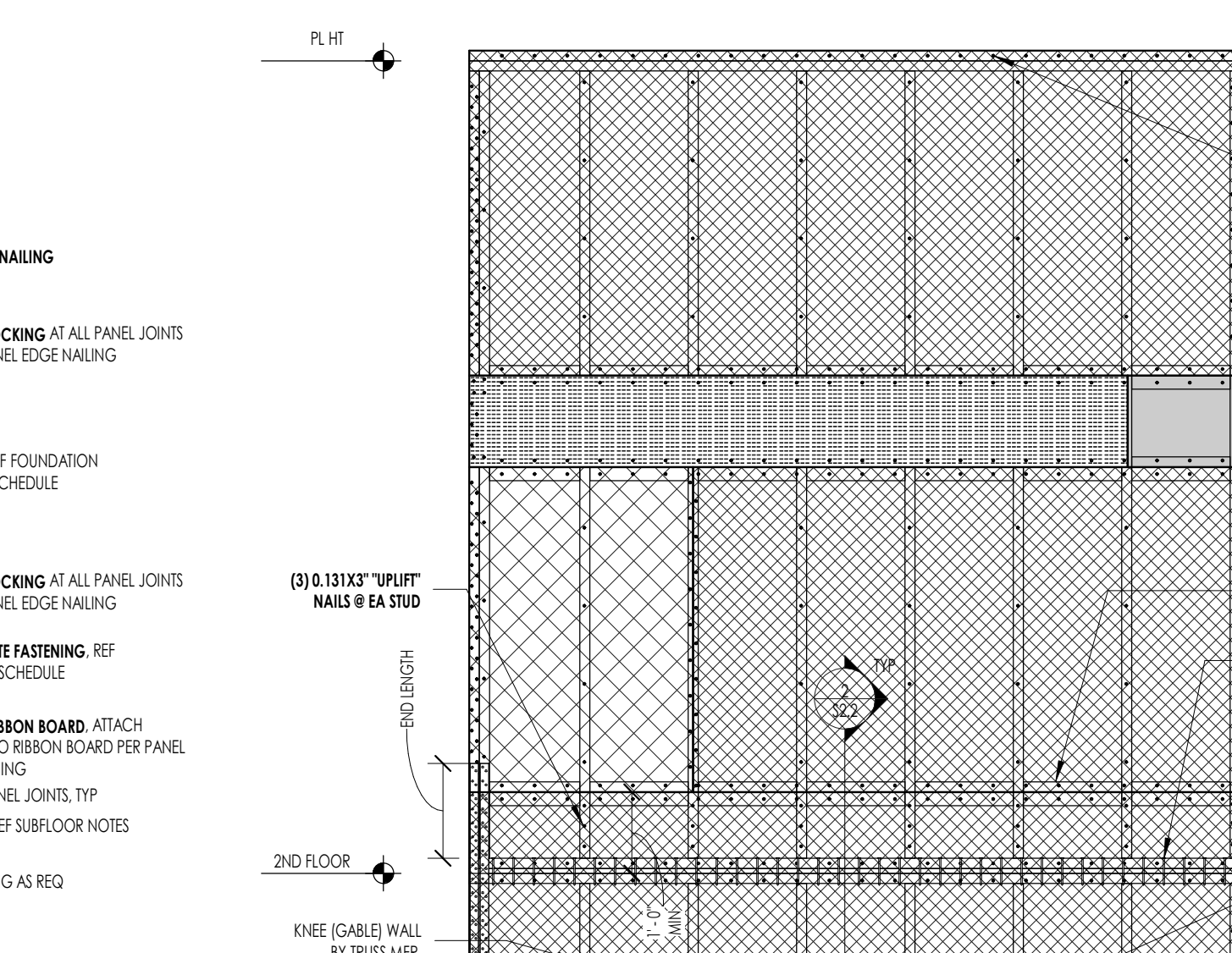
11 SHEARWALL - FORCE TRANSFER AROUND OPENING (DOOR)
NOT TO SCALE



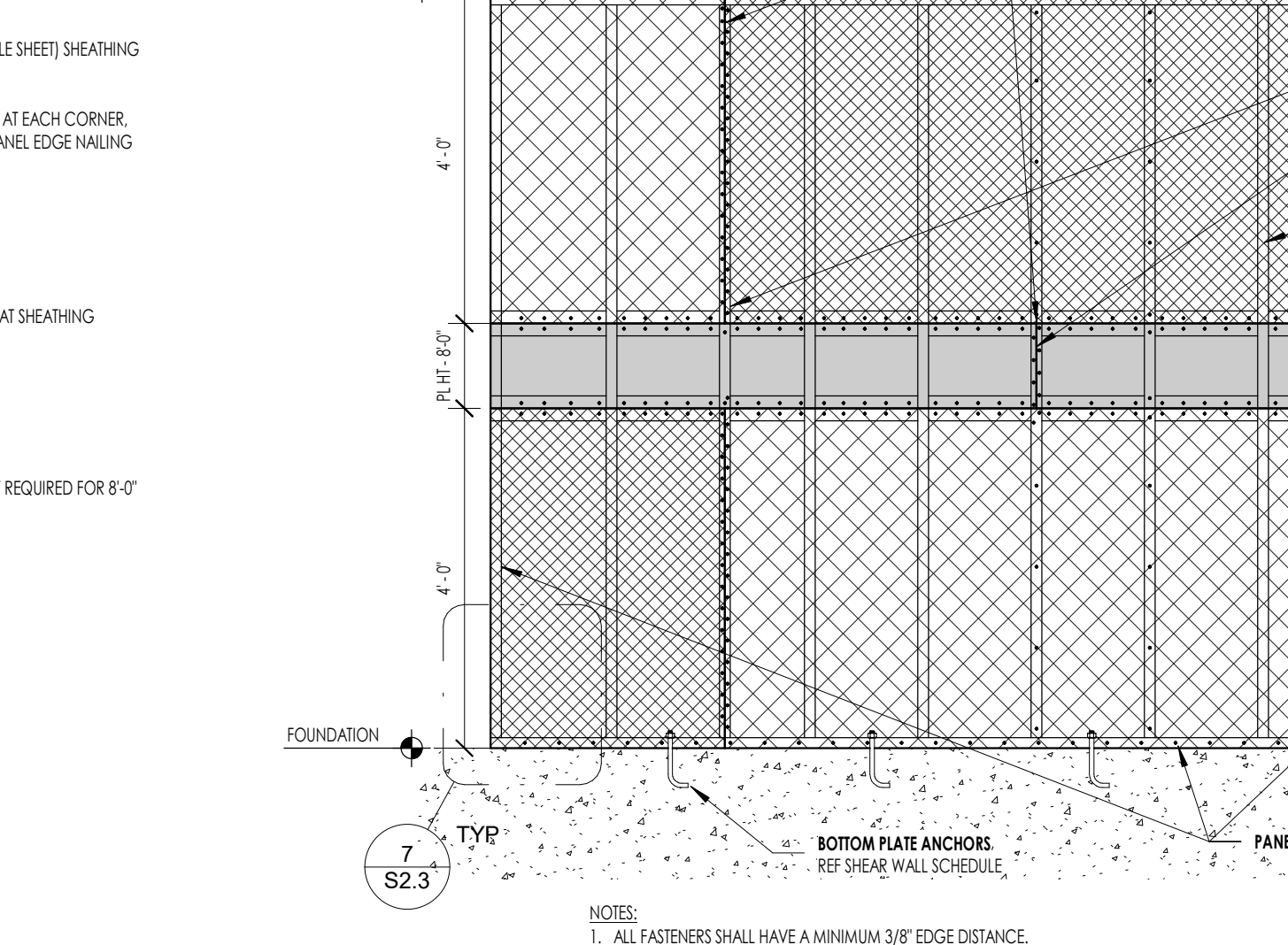
2 SHEARWALL - FORCE TRANSFER AROUND OPENING
NOT TO SCALE



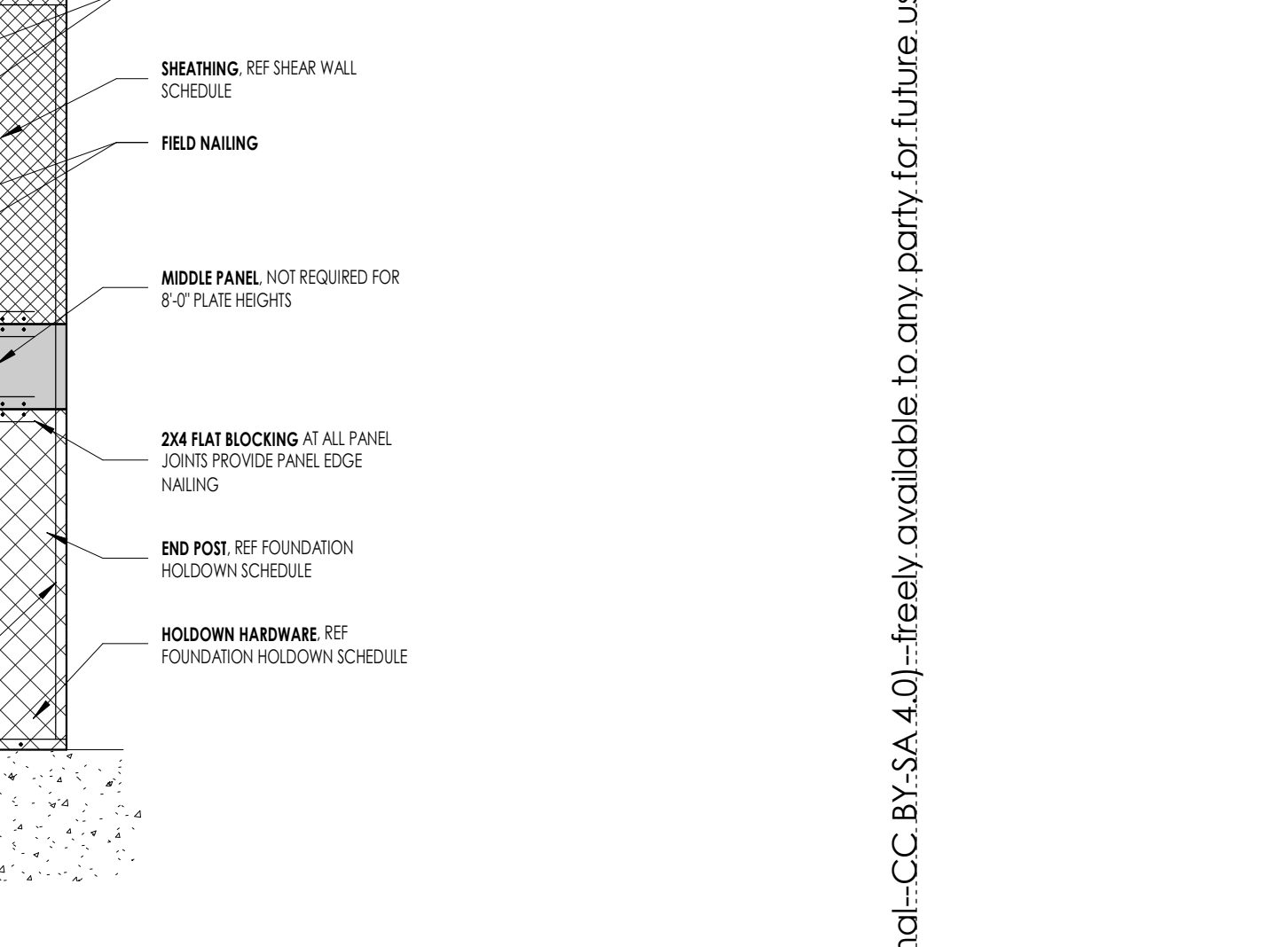
6 TYPICAL MULTIPLE STORY SHEARWALL FRAMING AND FASTENING - TRUSSES PERPENDICULAR
NOT TO SCALE



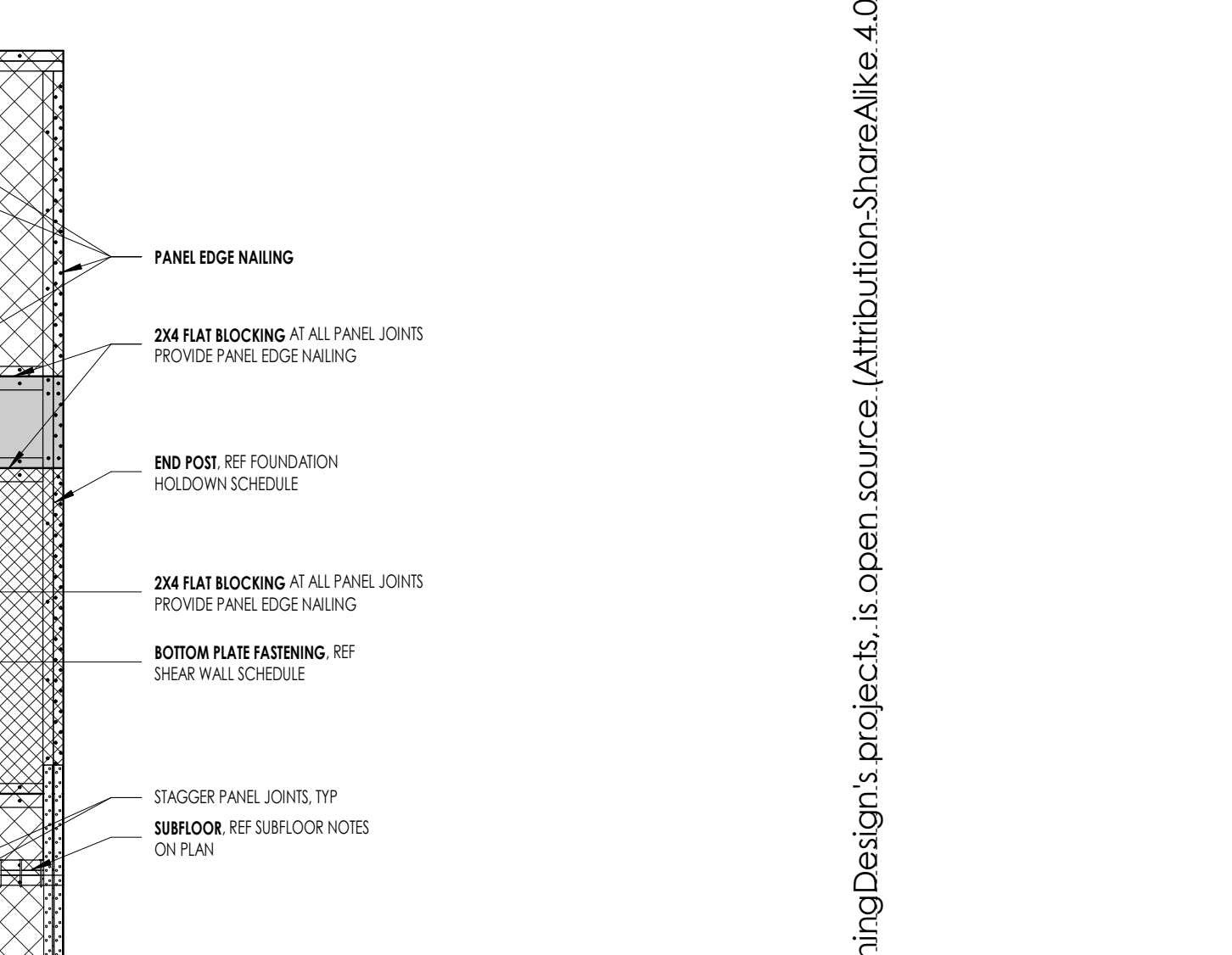
5 TYPICAL MULTIPLE STORY SHEARWALL FRAMING AND FASTENING - TRUSSES PARALLEL
NOT TO SCALE



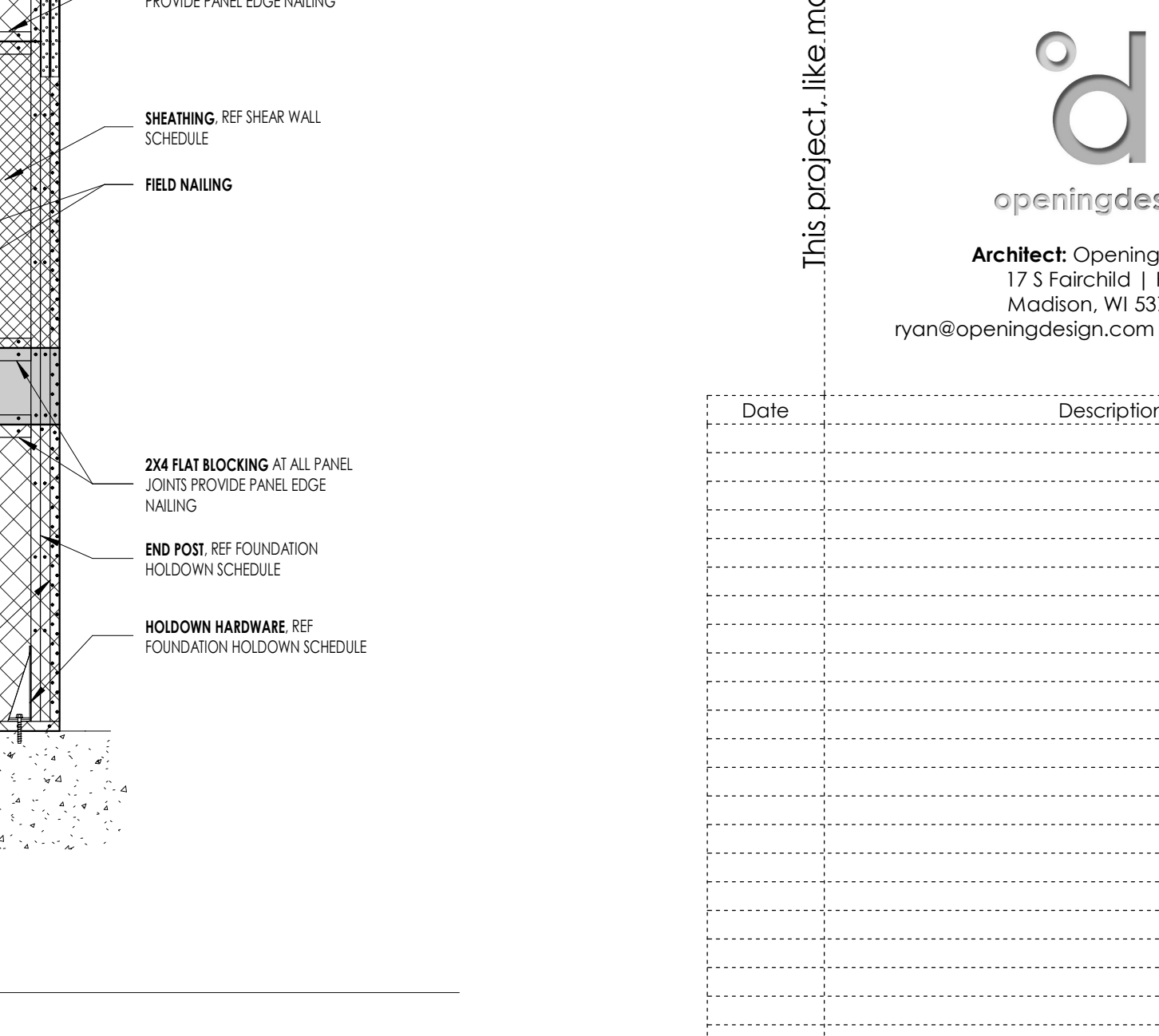
4 TYPICAL SINGLE STORY SHEARWALL FRAMING AND FASTENING
NOT TO SCALE



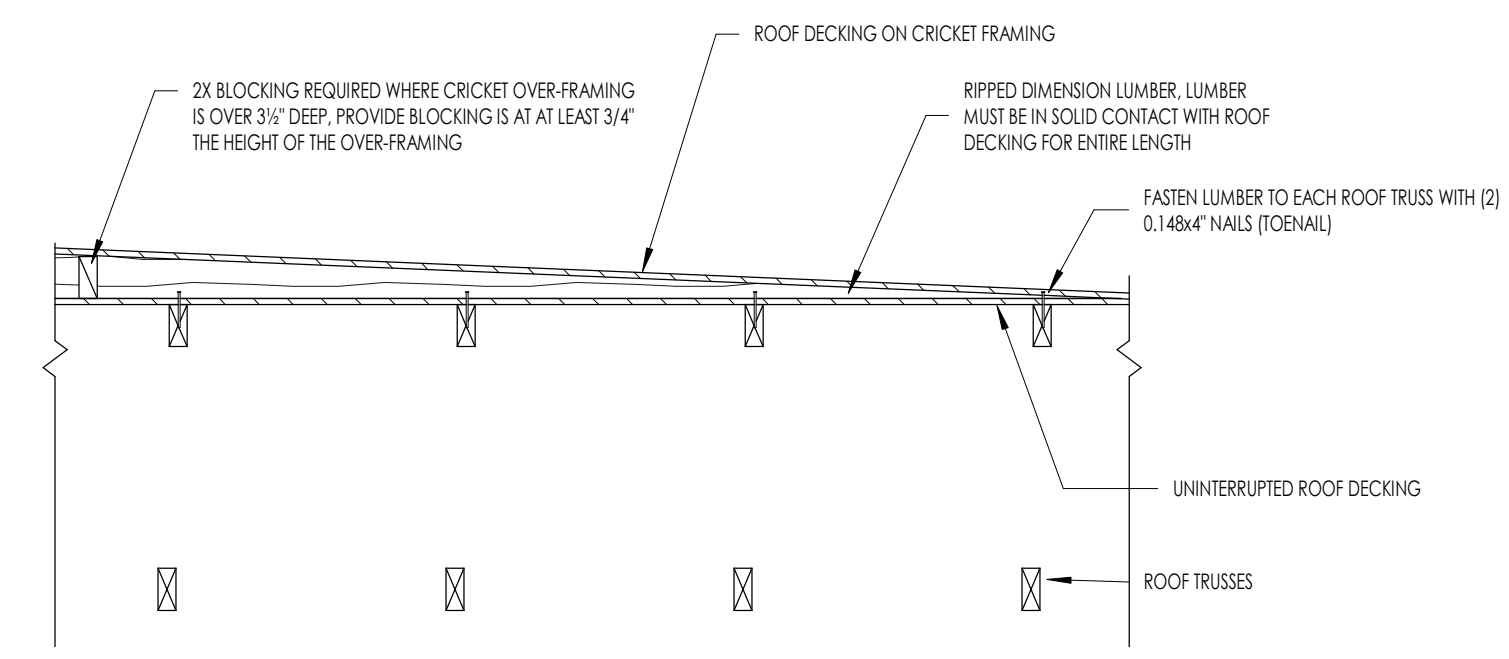
7 S2.3
NOT TO SCALE



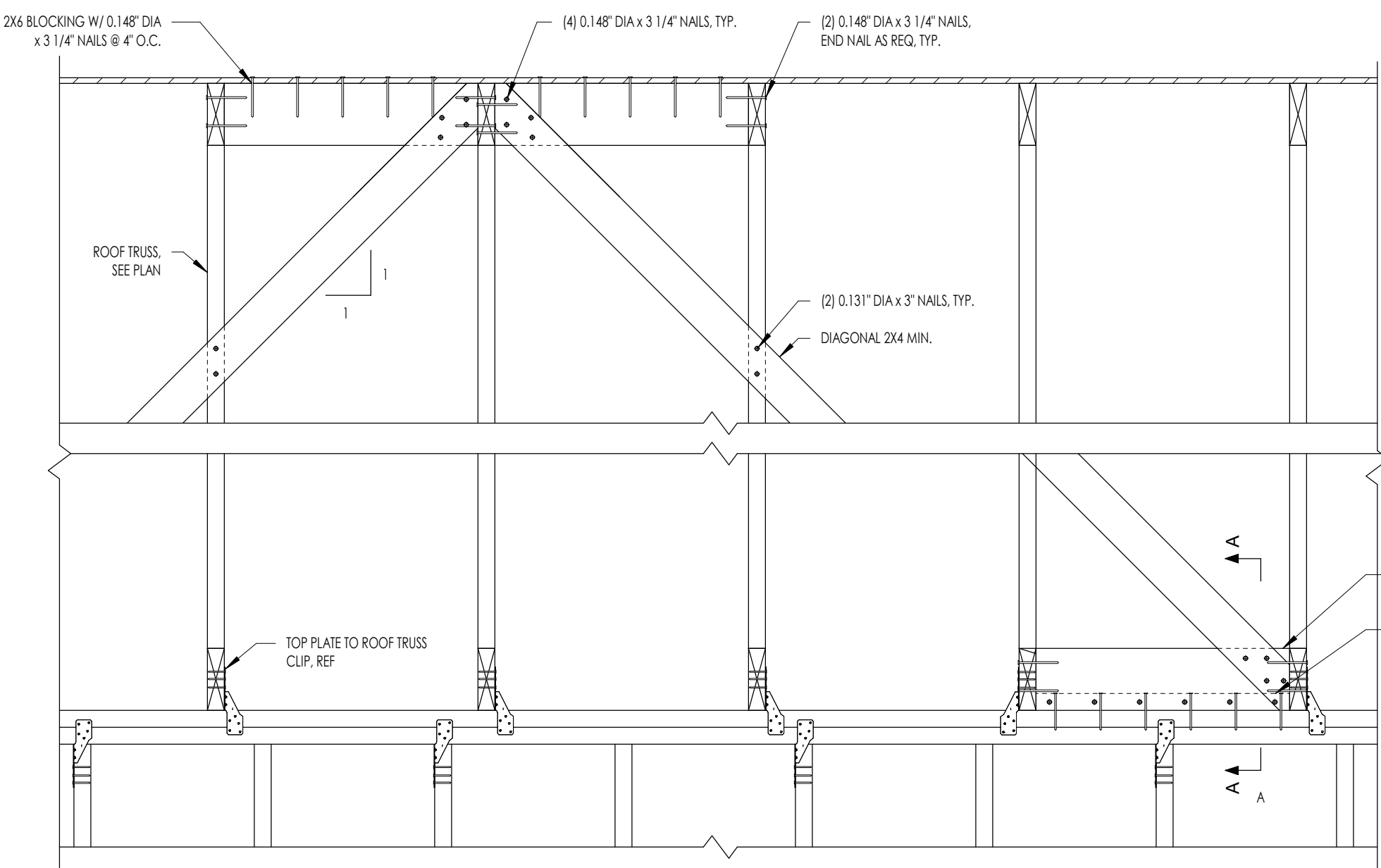
8 S2.3
NOT TO SCALE



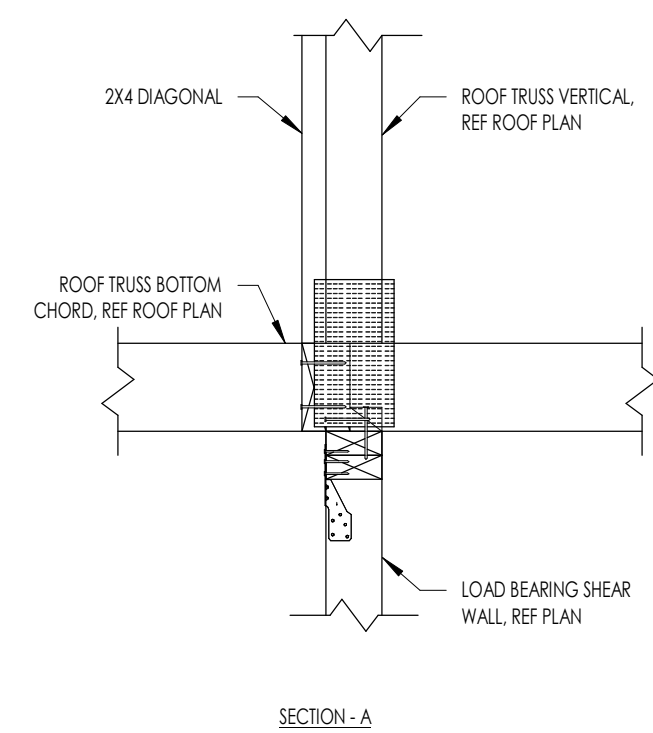
9 S2.3
NOT TO SCALE



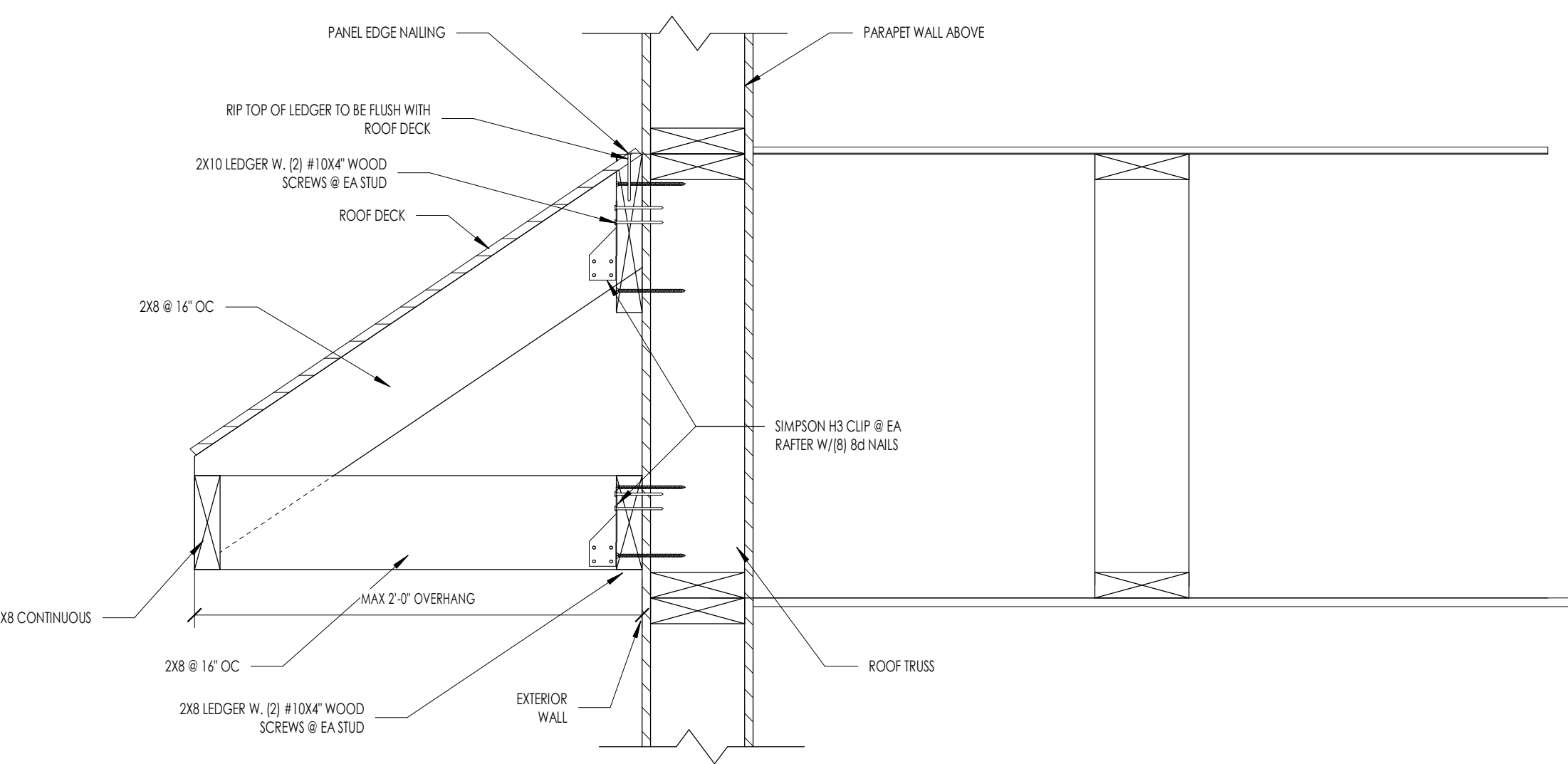
1 TYPICAL CRICKET FRAMING AT ROOF
NOT TO SCALE



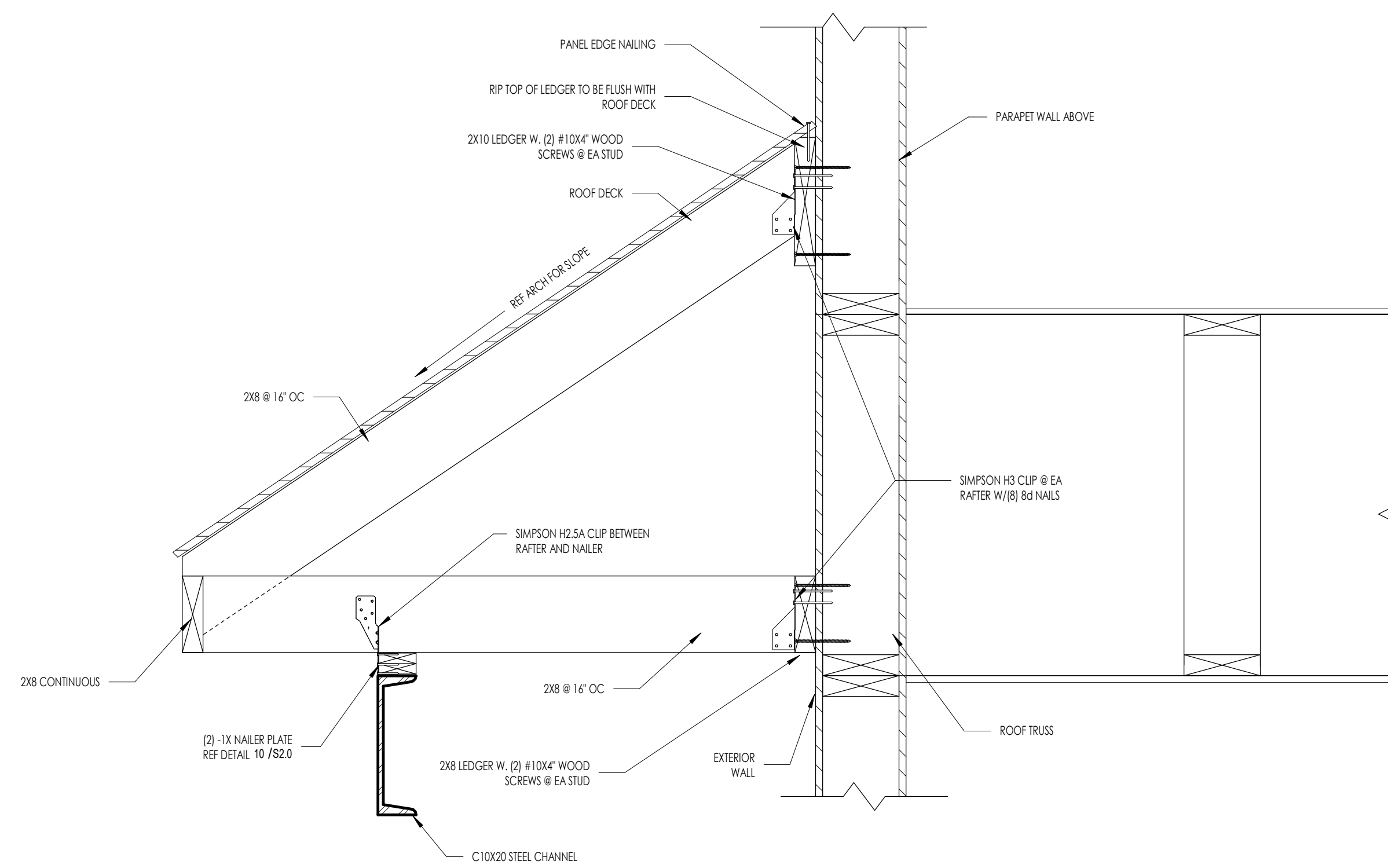
2 061760 ROOF - BRACING AT INTERIOR SHEAR WALL
NOT TO SCALE



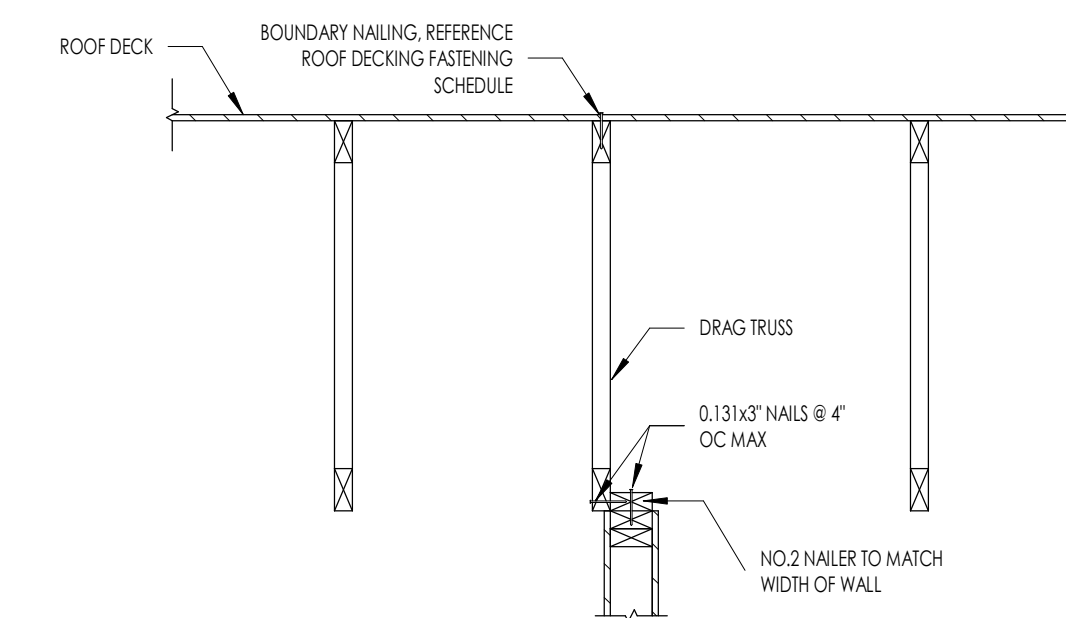
3 TYPICAL DRAG TRUSS OVER INTERIOR SHEAR WALL
NOT TO SCALE



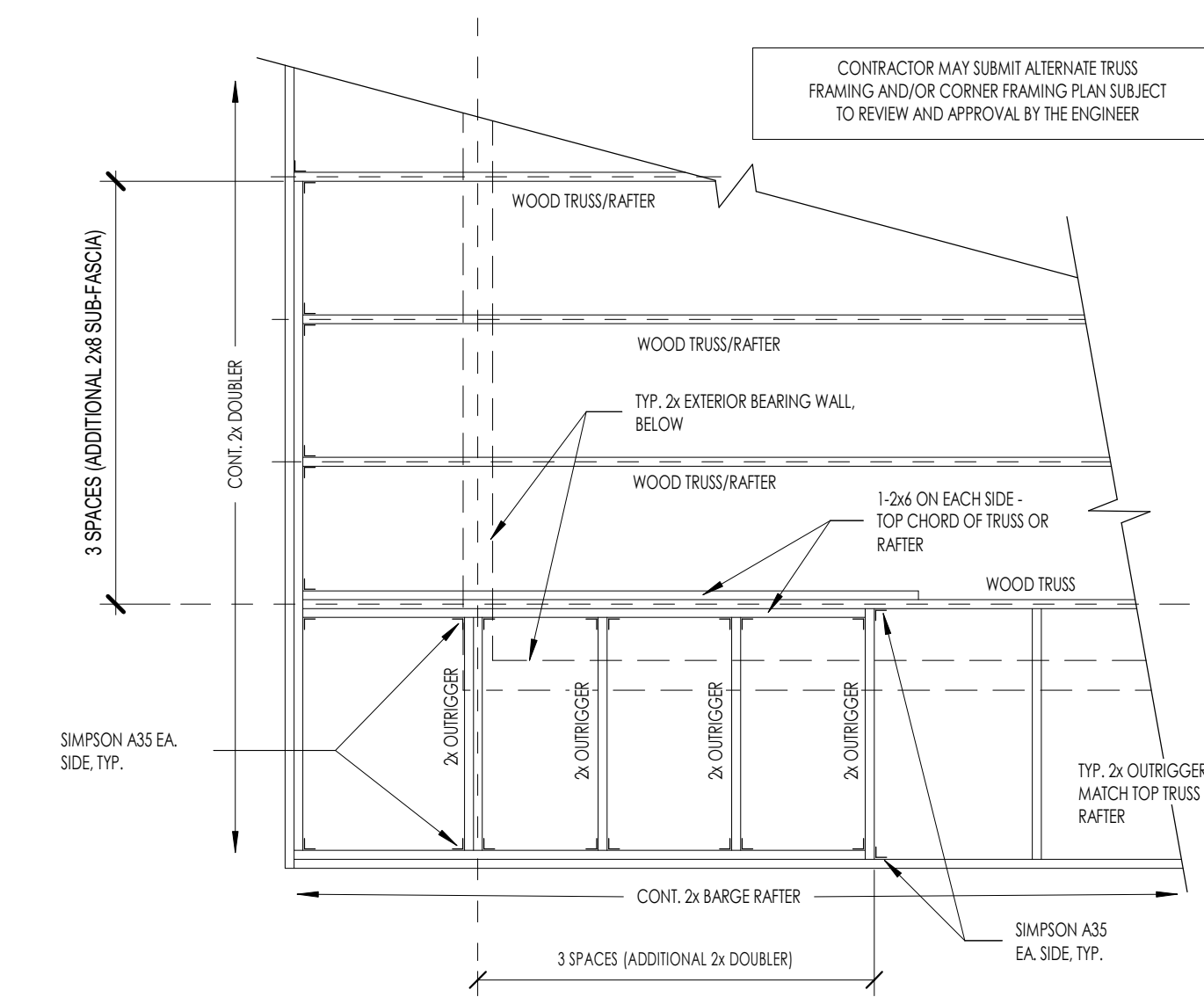
4 ROOF - RAFTER ATTACHMENT INTO WALL
NOT TO SCALE



5 ROOF - RAFTER ATTACHMENT INTO WALL - STEEL CHANNEL
NOT TO SCALE



12 TYP. ROOF CORNER FRAMING DETAIL
NOT TO SCALE



13 TYP. ROOF TRUSS CORNER DETAIL
NOT TO SCALE

RENOVATION
Wranglers

Owner: Renovation Wranglers
102 E 26th St
Bryan, TX 77803
Kateneason@me.com | 979.450.9969

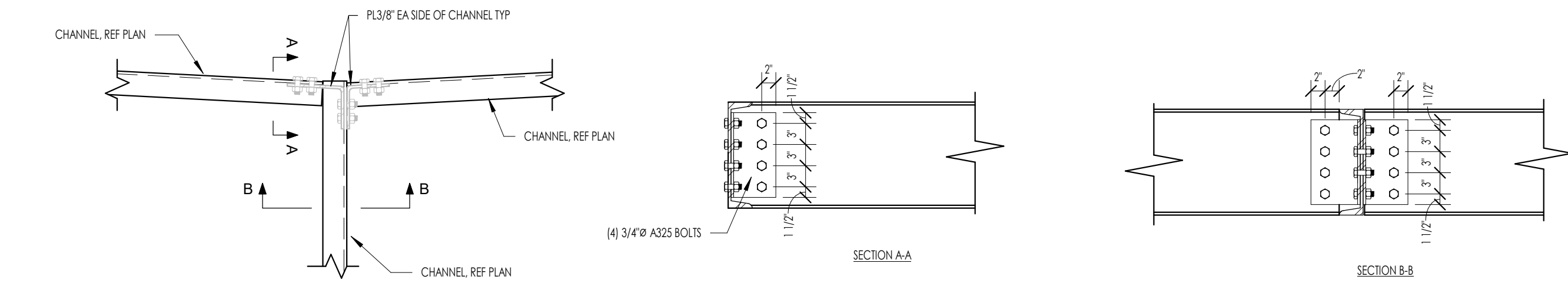
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Houston, TX 77019
isa@lkbarchitecture.com | 713.425.3076

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

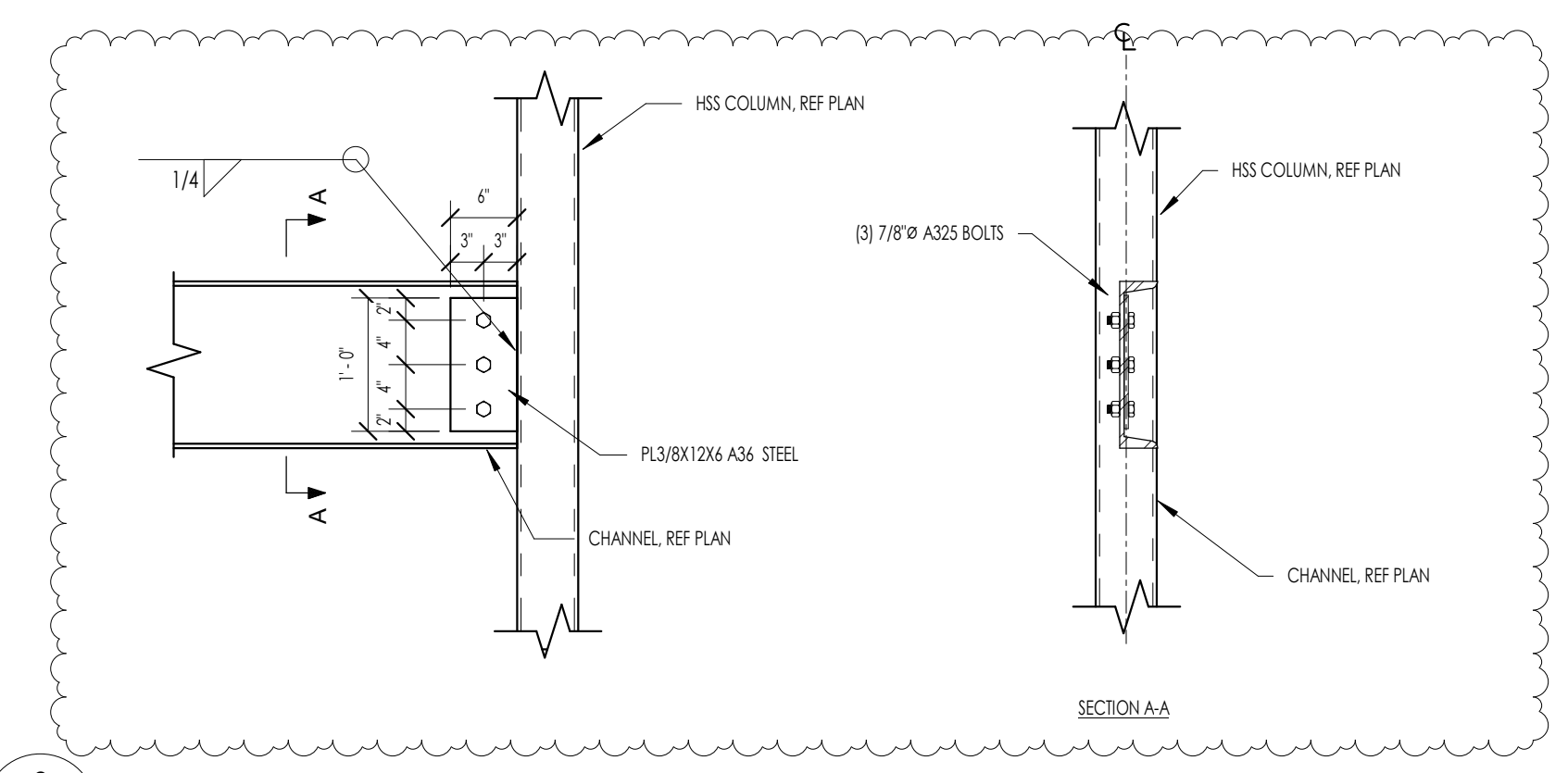
ame
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MEP: AMC Engineers
508 E Jackson St # 552
Burnet, TX 78611
info@amcengineers.com

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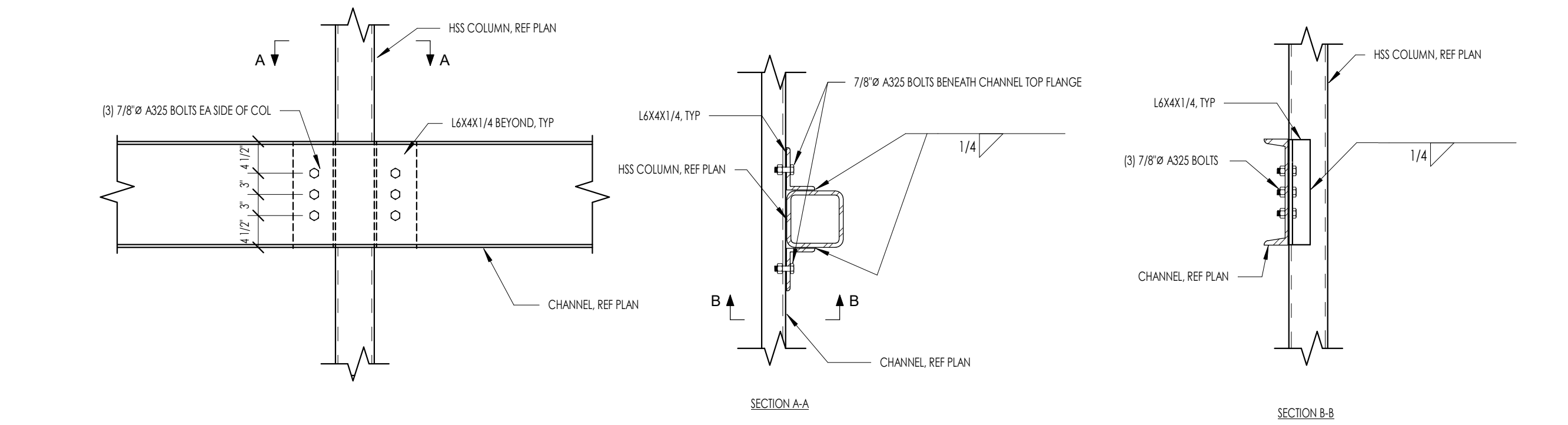
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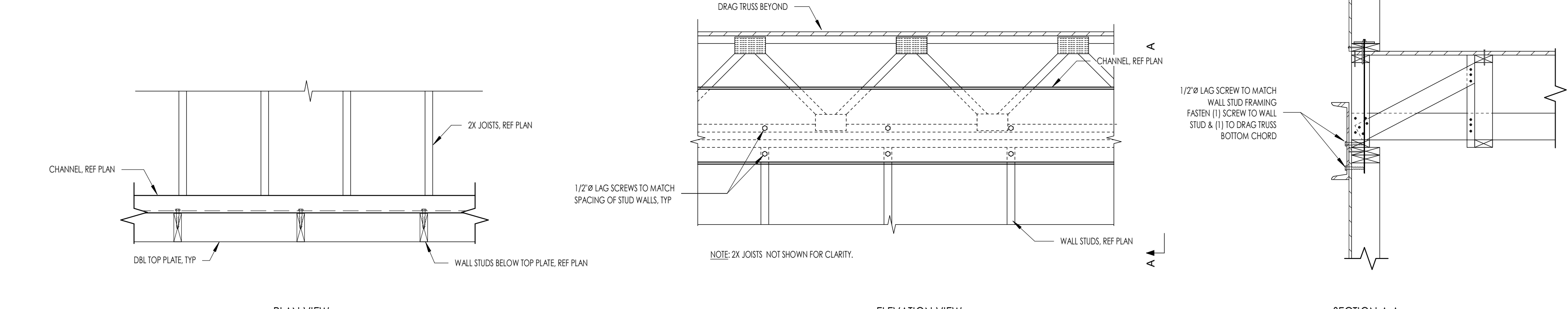
1 TYPICAL CHANNEL CONNECTION AT BALCONY
NOT TO SCALE



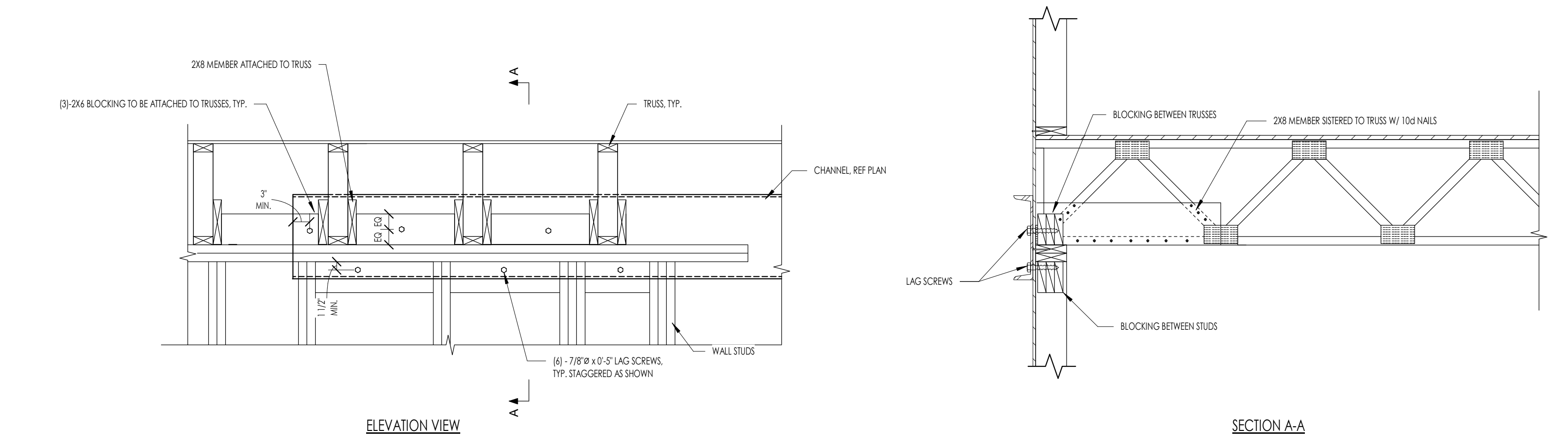
3 CHANNEL TO HSS COLUMN CONNECTION - ALIGNED
NOT TO SCALE



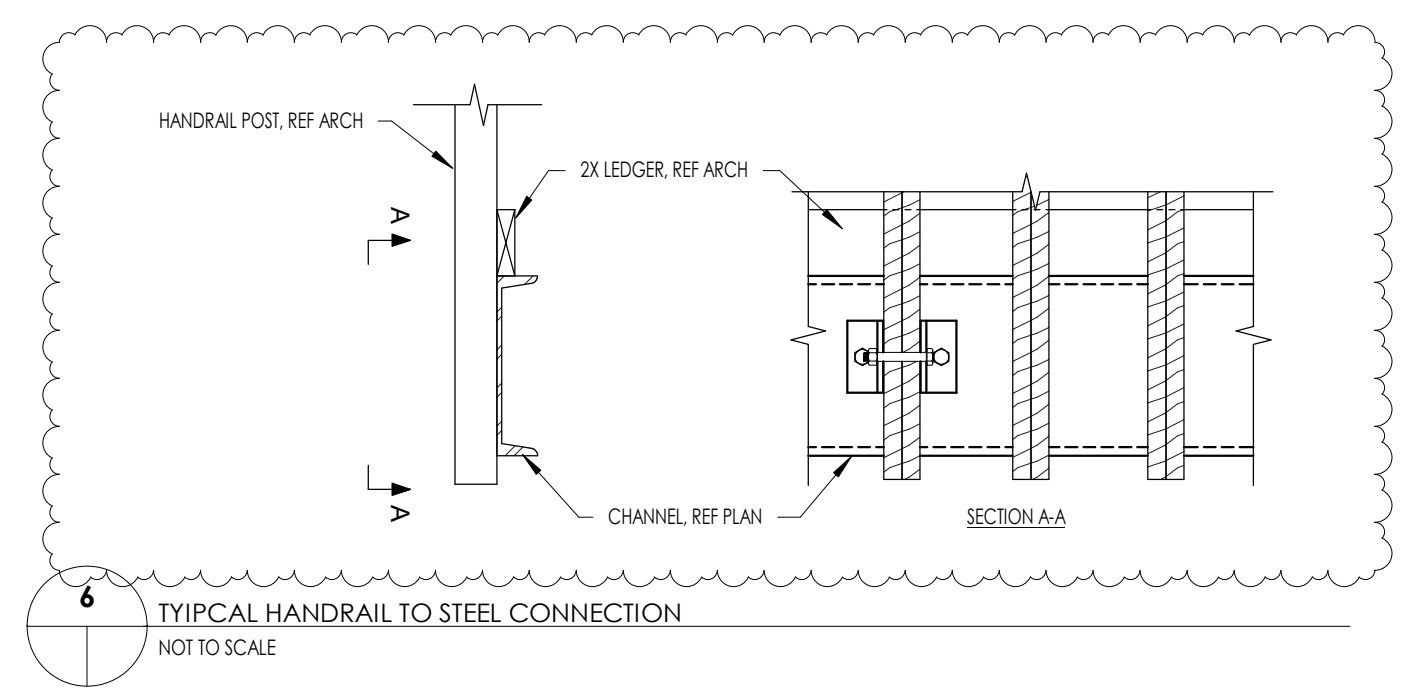
2 CHANNEL TO HSS COLUMN CONNECTION - ECCENTRIC
NOT TO SCALE



4 TYPICAL CHANNEL TO WALL STUD CONNECTION
NOT TO SCALE



5 TYPICAL CHANNEL TO WALL STUD CONNECTION Copy 2
NOT TO SCALE



6 TYPICAL HANDRAIL TO STEEL CONNECTION
NOT TO SCALE

RENOVATION
Wranglers
Architecture

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openingdesign

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Date	Description
REV. 1	