

FOUNDATION PLAN
SCALE : 1/4" = 1'-0" SEE SHEET S9-3 FOR FRAMING NOTES

FOUNDATION NOTES:

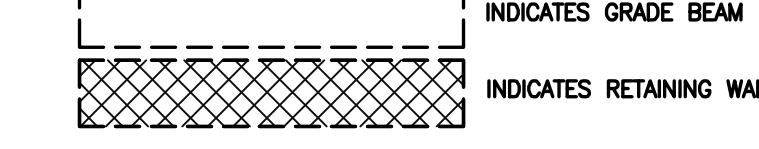
- ALL DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECT'S DRAWINGS ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO COMMENCING OF WORK.
- D.F.P.I. PLATE TO BE SECURED WITH 1/2" DIAMETER BY 10" LONG ANCHOR BOLTS WITH A STANDARD CUT WASHER EMBEDDED AT LEAST 7" INTO CONCRETE WITH A MAXIMUM SPACING OF 72" O.C. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PIECE OF FOUNDATION PLATE WITH ONE BOLT LOCATED WITHIN 12" MAX. & 4-1/2" MIN. OF EA. END OF EA. PIECE. **AT SHEAR WALLS** A PROPERLY SIZED NUT AND 3"x3"x22g" THICK WASHER SHALL BE TIGHTENED ON EA. BOLT TO THE PLATE. HOLE IN PLATE WASHER CAN BE DIAGONALLY SLOTTED W/ A WIDTH OF UP TO .3/16" LARGER THAN BOLT DIAMETER & A SLOT LENGTH NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER & THE NUT. U.O. BY SUB LETTER 'C' WHEN A CUT WASHER IS OKAY.
- ALL INTERIOR NON-SHEAR WALLS ARE TO BE SECURED WITH SHOT PINS INSTALLED PER MANUFACTURERS RECOMMENDATIONS, U.O. STRUCTURAL ENGINEERS CALCULATIONS GOVERN IN ALL CASES.
- INSTALL ALL SIMPSON (OR APPROVED EQUAL) FOUNDATION HARDWARE PER MANUFACTURERS RECOMMENDATIONS. DEEPEN FOOTING WHERE NECESSARY TO PROVIDE ANCHOR EMBEDMENT AT HOLDOWN LOCATIONS.

NOTE:

WHEN REQUIRED BY LOCAL BUILDING DEPARTMENT ALL ANCHOR BOLTS AND HOLDOWN BOLTS TO BE SET IN PLACE PRIOR TO CITY FOUNDATION INSPECTION

SOIL INFORMATION:

- FOUNDATION SIZES, DEPTHS, AND REINFORCEMENT ARE AS RECOMMENDED WITHIN THE OWNER/DEVELOPER'S SOILS ENGINEER'S REPORT. SOILS ENGINEER TO PROVIDE FOUNDATION INSPECTION AS OUTLINED IN LATEST SOIL REPORT.
- OWNER/DEVELOPER AND SUBCONTRACTORS ARE TO REVIEW THE SOILS REPORT PRIOR TO COMMENCING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE OWNER, DEVELOPER AND SUBCONTRACTOR TO VERIFY THAT THE REPORT IS CURRENT AND PLAN REQUIREMENTS ARE CONSISTENT WITH ANY UPDATED SOIL REPORTS. ES/FME IS TO BE SUPPLIED WITH ALL UPDATED REPORTS.



ANCHOR BOLT LEGEND:

- * AB32 : 1/2" DIA. X 10" ANCHOR BOLTS AT 32" O.C.
- AB24 : 1/2" DIA. X 10" ANCHOR BOLTS AT 24" O.C.
- AB# : 1/2" DIA. X 10" ANCHOR BOLTS AT # O.C.
- 2AB : (2) 1/2" DIA X 10" ANCHOR BOLTS.
- 3AB : (3) 1/2" DIA X 10" ANCHOR BOLTS.
- #AB : (#) 1/2" DIA. X 10" ANCHOR BOLTS.
- c : DENOTES STANDARD CUT WASHERS OKAY IN LIEU OF 3" SQ. ONLY REQUIRED.
- 2-#4 : PROVIDE A TOTAL OF 2 #4 AT TOP AND 2 #4 AT BOTTOM OF FOOTING, 4" PAST POSTS.
- 3-#4 : PROVIDE A TOTAL OF 3 #4 AT TOP AND 3 #4 AT BOTTOM OF FOOTING, 4" PAST POSTS.
- 2-#5 : PROVIDE A TOTAL OF 2-#5 AT TOP AND 2-#5 AT BOTTOM OF FOOTING, 6" PAST POSTS.
- HDU2 : (1) SIMPSON HDU# PER POST.
- HDU# : (1) SIMPSON HDU# PER POST.
- HT4 : (1) SIMPSON HT4 PER POST.
- HITS : (1) SIMPSON HITS PER POST.
- PHD6 : (1) SIMPSON PHD6 PER POST.
- HD8A : (1) SIMPSON HD8A PER POST.
- HD10A : (1) SIMPSON HD10A PER POST.
- HD14A : (1) SIMPSON HD14A PER POST.
- HD8 : (1) SIMPSON HD8-SDS3 PER POST.
- HDQ11 : (1) SIMPSON HDQ11-SDS2.5 PER POST.
- HDQ14 : (1) SIMPSON HDQ14-SDS2.5 PER POST.

REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS

* ALT. TO 1/2" ANCHOR BOLTS SIMPSON MASA AT A 1-1 RATIO
ALL GRADE BEAMS 8"x22 1/2" THICK W/ 2-#5 TOP & BOTTOM, U.O.
W/ #3 TIES @ 12" O.C., U.O.

ALL PIERS TYPE [A] UNLESS NOTED OTHERWISE (U.O.)

PIER SCHEDULE	SEE (31) FOR TYP. CONN.		
TYPE	DEPTH INTO BEDROCK	CAPACITY	VERT. REIN.
A	5'-0"	11,715 *	(5.76)
B	8'-0"	18,840 *	(4.78)



- ALL PIERS TO BE INTERCONNECTED WITH GRADE BEAMS
PIERS:
#4 # PIER W/ #3 TIES AT 21" O.C. PIERS SHALL PENETRATE AT LEAST 5'-0" INTO BEDROCK & A MIN. OF 6" BELOW THE LOWEST ADJACENT GRADE AS IDENTIFIED BY THE SOILS ENGINEER DURING CONSTRUCTION (SEE SOILS REPORT FOR MORE RECOMMENDATIONS.)

THE EXCAVATION OF ALL DRILLED SHAFTS SHOULD BE OBSERVED BY A CORNERSTONE REPRESENTATIVE TO CONFIRM THE SOIL PROFILE. VERIFY THAT THE PIERS EXTEND THE MINIMUM DEPTH INTO SUITABLE MATERIALS AND THAT THE PIERS ARE CONSTRUCTED IN ACCORDANCE WITH OUR RECOMMENDATIONS AND PROJECT REQUIREMENTS. THE DRILLED SHAFTS SHOULD BE STRAIGHT, DRY, AND RELATIVELY FREE OF LOOSE MATERIAL, BEFORE REINFORCING STEEL IS INSTALLED AND CONCRETE IS PLACED. IF GROUND WATER CANNOT BE REMOVED FROM THE EXCAVATIONS PRIOR TO CONCRETE PLACEMENT, DRILLING SLURRY OR CASING MAY BE REQUIRED TO STABILIZE THE SHAFT AND THE CONCRETE SHOULD BE PLACED USING A TREMIE PIPE, KEEPING THE TREMIE PIPE BELOW THE SURFACE OF THE CONCRETE TO AVOID ENTRAPMENT OF WATER OR DRILLING SLURRY IN THE CONCRETE.

INDICATES 24" CAISSONS W/ 10-#8 VERT. BARS MIN. 13' INTO BEDROCK.

INDICATES RETAINING WALL

SEE SHEET S9-3 FOR FRAMING NOTES

REVISIONS

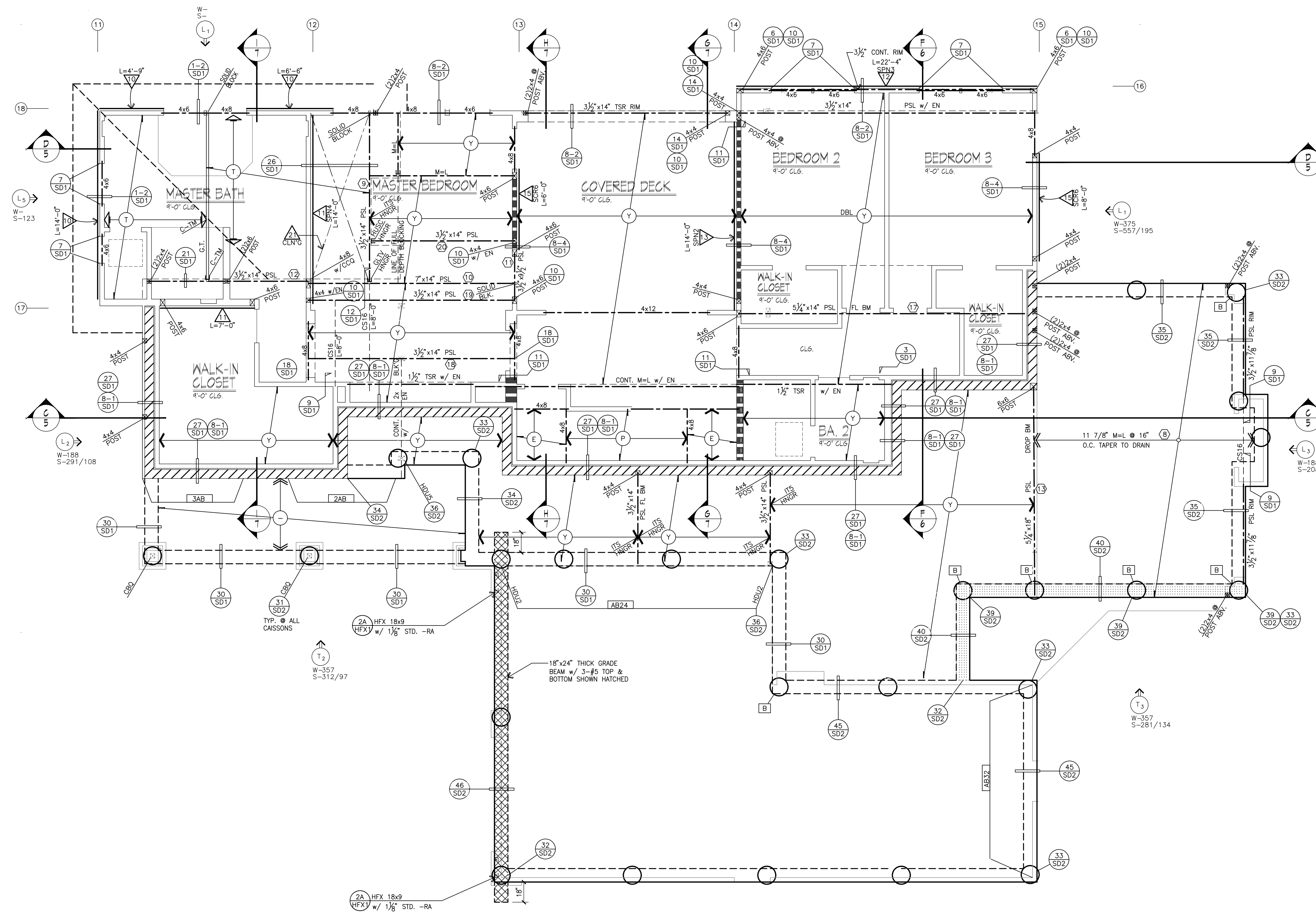
ES/FME, INC.
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JULY 2008 8/27/2016

FOUNDATION PLAN
LOT 9

"HIGHLAND ESTATES"
LOT 9
SAN MATEO COUNTY, CA.
THE CHAMBERLAIN GROUP - MGA



DRAWN
CHECKED
PLOT DATE
12/01/2016
JOB NO.
C169
SHEET
S9-1
SHEET: 2 OF: 6



FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

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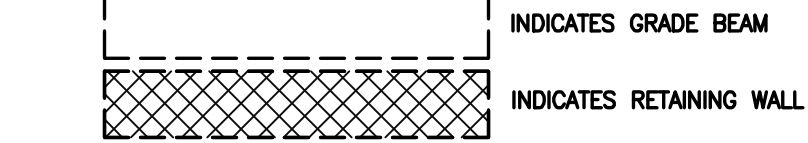
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- HDU2 : (1) SIMPSON HDU# PER POST.
- HDU# : (1) SIMPSON HDU# PER POST.
- HT4 : (1) SIMPSON HT4 PER POST.
- HT5 : (1) SIMPSON HT5 PER POST.
- PHD6 : (1) SIMPSON PHD6 PER POST.
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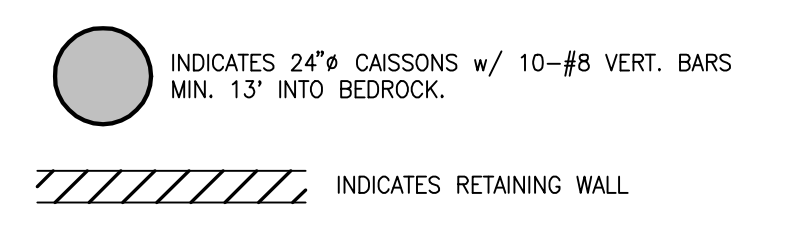
ALL PIERS TYPE [A] UNLESS NOTED OTHERWISE (U.O.)

PIER SCHEDULE			SEE (31) FOR TYP. CONN.
TYPE	DEPTH INTO BEDROCK	CAPACITY	VERT. REINF.
A	5'-0"	11,715 *	(5) #6
B	8'-0"	18,840 *	(4) #6

- ALL PIERS TO BE INTERCONNECTED WITH GRADE BEAMS

PIERS:
#4 - PIER W/ #3 TIES AT 21" O.C. PIERS SHALL PENETRATE AT LEAST 5'-0" INTO BEDROCK 4" MIN. OF #3 BELOW THE LOWEST ADJACENT GRADE AS IDENTIFIED BY THE SOILS ENGINEER DURING CONSTRUCTION (SEE SOILS REPORT FOR MORE RECOMMENDATIONS.)

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REVISIONS

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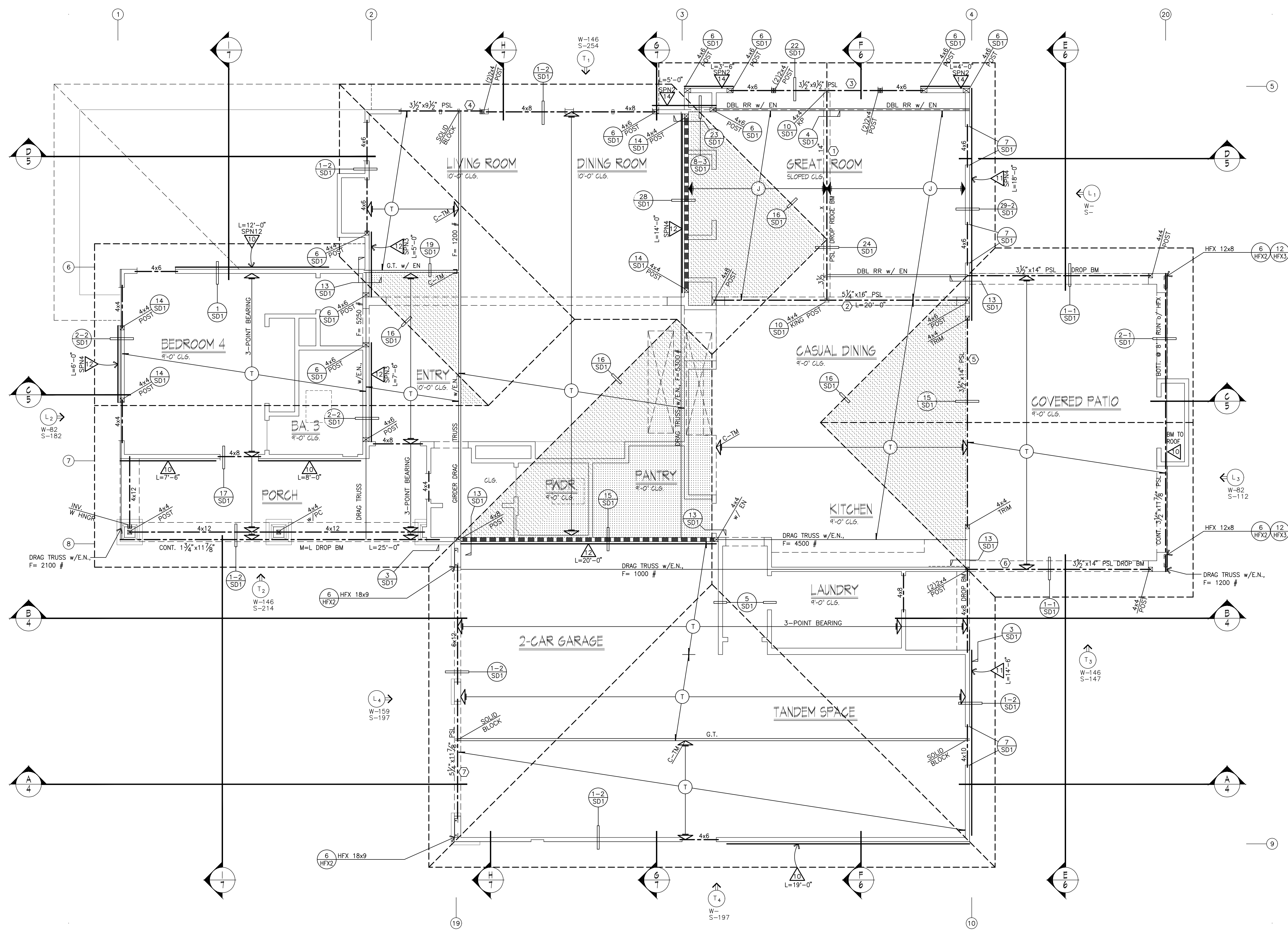
FLOOR FRAMING PLAN
LOT 9

"HIGHLAND ESTATES"
LOT 9
SAN MATEO COUNTY, CA.
THE CHAMBERLAIN GROUP - MGA

REGISTERED PROFESSIONAL ENGINEER
DATE: 12/01/2016
C 35407
CIVIL
STATE OF CALIFORNIA

DRAWN -
CHECKED -
PLOT DATE 12/01/2016
JOB NO. C169
SHEET
S9-2
SHEET: 3 OF: 6

SEE SHEET S9-3 FOR FRAMING NOTES



ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

LATERAL SHEAR NOTES:

- (2013 CBC, SDPWS-2008 ; SEISMIC DESIGN CATEGORY D & E) FRAMING MEMBERS DOUGLAS FIR-LARCH AT 16' O.C.
- VERTICAL:**
- 10. 3/8" WOOD STRUCTURAL PANEL WITH 84 COMMON NAILS AT 6" O.C. AT EDGES AND 12" O.C. AT FIELD 260 PLF
 - 11. 3/8" WOOD STRUCTURAL PANEL WITH 84 COMMON NAILS AT 4" O.C. AT EDGES AND 12" O.C. AT FIELD 350 PLF
 - 12. 3/8" WOOD STRUCTURAL PANEL WITH 84 COMMON NAILS AT 3" O.C. AT EDGES AND 12" O.C. AT FIELD 490 PLF
 - 13. 3/8" WOOD STRUCTURAL PANEL WITH 84 COMMON NAILS AT 2" O.C. AT EDGES AND 12" O.C. AT FIELD 640 PLF
 - 14. 1/2" (OR 15/32) WOOD STRUCTURAL PANEL WITH 104 COMMON NAILS AT 2" O.C. AT EDGES AND 12" O.C. AT FIELD 770 PLF
 - 15. 1/2" (OR 15/32) STRUCT. I WOOD PANEL WITH 104 COMMON NAILS AT 2" O.C. AT EDGES AND 12" O.C. AT FIELD 870 PLF
- HORIZONTAL:** (3/8" @ CEILING LIDS, 15/32" @ ROOF SHEET)
(3/8" PANEL VALUES AND NAILING BELOW MAY BE USED FOR 15/32" PANELS)
- 20. BLOCKED PLYWOOD DIAPHRAGM WITH 3/8" WOOD STRUCTURAL PANEL AND 84 COMMON NAILS AT 4" O.C. STAGG. AT BOUNDARIES, 6" O.C. AT EDGES AND 10" O.C. AT FIELD 240 PLF
 - 21. BLOCKED PLYWOOD DIAPHRAGM WITH 3/8" WOOD STRUCTURAL PANEL AND 84 COMMON NAILS AT 4" O.C. STAGG. AT BOUNDARIES, 6" O.C. AT EDGES AND 10" O.C. AT FIELD 320 PLF
 - 22. BLOCKED PLYWOOD DIAPHRAGM WITH 3/8" WOOD STRUCTURAL PANEL AND 84 COMMON NAILS AT 4" O.C. STAGG. AT BOUNDARIES, 6" O.C. AT EDGES AND 10" O.C. AT FIELD 480 PLF
 - 23. BLOCKED PLYWOOD DIAPHRAGM WITH 3/8" WOOD STRUCTURAL PANEL AND 84 COMMON NAILS AT 2" O.C. STAGG. AT BOUNDARIES, 3" O.C. AT EDGES AND 10" O.C. AT FIELD 545 PLF
- HORIZONTAL:**
- 24. BLOCKED PLYWOOD DIAPHRAGM WITH 19/32" WOOD STRUCTURAL PANEL AND 104 COMMON NAILS AT 4" O.C. AT BOUNDARIES, 6" O.C. AT EDGES AND 10" O.C. AT FIELD 320 PLF
 - 25. BLOCKED PLYWOOD DIAPHRAGM WITH 19/32" WOOD STRUCTURAL PANEL AND 104 COMMON NAILS AT 4" O.C. AT BOUNDARIES, 6" O.C. AT EDGES AND 10" O.C. AT FIELD 425 PLF
 - 26. BLOCKED PLYWOOD DIAPHRAGM WITH 19/32" WOOD STRUCTURAL PANEL AND 104 COMMON NAILS AT 2" O.C. STAGG. AT BOUNDARIES, 3" O.C. AT EDGES AND 10" O.C. AT FIELD 640 PLF
 - 27. BLOCKED PLYWOOD DIAPHRAGM WITH 19/32" WOOD STRUCTURAL PANEL AND 104 COMMON NAILS AT 2" O.C. STAGG. AT BOUNDARIES, 3" O.C. AT EDGES AND 10" O.C. AT FIELD 730 PLF

- NOTES:**
- A. WOOD STRUCTURAL PANEL: MATERIAL APPROVED BY APA, PFS/TECO OR PITTSBURGH TESTING LABORATORIES THESE VALUES ARE FOR DOUG-FIR LARCH OR SOUTHERN PINE, OTHER LUMBER SPECIES MAY DIFFER IN SHEAR CAPACITIES.
 - B. PROVIDE 2x BLOCKING AT HORIZONTAL WOOD STRUCTURAL PANEL JOINTS.
 - C. WHERE WOOD STRUCTURAL PANEL IS APPLIED ON BOTH SIDES OF WALL AND NAILED SPACING IS LESS THAN 6" O.C. PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3X OR WIDER AND NAILS STAGGERED ON EACH SIDE.
 - D. FOR SHEAR WALLS TO USE THE FOLLOWING:
 - 1) USE 3x MEMBER @ PANEL JOINTS & HORIZONTAL BLOCKING
 - 2) EDGE NAILING SHALL BE STAGGERED
 - 3) 104 SHORT BOX NAILS MAY BE USED IN LIEU OF 84 COMMON NAILS @ SHEAR WALLS ONLY. REQUIRED PLATE WASHERS AT SHEAR WALLS TO BE 3" x 3" x 23G STEEL PLATE. U.N.G. WITH SUB SCRIPT 6 WHERE STANDARD CUT WASHERS ARE OKAY (SDPWS SECT. 4.3.6.4.3) WASHER MAY BE SLOT OUT PROVIDED A STANDARD CUT WASHER IS PROVIDED BETWEEN THE WASHER AND NUT. WASHER TO BE INSTALLED WITHIN 1/2" OF SHEATHED SIDE OF PLATE
 - 4) A STANDARD CUT WASHER MAY BE USED AT ALL NON-SHEAR WALL LOCATIONS WITH ANCHOR BOLTS.
 - E. ALL ROOF AND FLOOR SHEATHING TO BE EXPOSURE 1 OR EXTERIOR (TABLE 2306.2.1)
 - F. JOIST SPACING EQUAL TO OR LESS THAN 24" O.C. 15/32" WOOD STRUCTURAL PANEL PI 32/16, WITH 84 @ 6" O.C. AT EDGES AND BOUNDARIES, 12" O.C. FIELD HORIZONTAL DIAPHRAGM VALUES FOR 3/8" WOOD STRUCTURAL PANELS MAY BE USED FOR 15/32" WOOD STRUCTURAL PANELS. U.N.G.
 - G. JOIST SPACING EQUAL TO OR LESS THAN 16" O.C. 19/32" WOOD STRUCTURAL PANEL T&G SHG, PI 32/16, w/104's AT 6" O.C. AT EDGES AND BOUNDARIES, 12" O.C. FIELD.
 - H. JOIST SPACING EQUAL TO OR LESS THAN 24" O.C. 19/32" WOOD STRUCTURAL PANEL T&G SHG, PI 40/20, w/104's AT 6" O.C. AT EDGES AND BOUNDARIES, 12" O.C. FIELD.
 - I. JOIST SPACING EQUAL TO OR LESS THAN 24" O.C. 23/32" WOOD STRUCTURAL PANEL T&G SHG, PI 48/24, w/104's AT 6" O.C. AT EDGES AND BOUNDARIES, 12" O.C. FIELD.
 - J. PANEL EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH BLOCKING NOT REQUIRED WHEN LIGHTWEIGHT CONCRETE IS PLACED OVER SUBFLOOR.

FRAMING LEGEND:

INDICATES SPAN AND DIRECTION OF ROOF JOISTS AND RAFTERS

INDICATES SPAN AND DIRECTION OF TRUSSES

INDICATES SPAN AND DIRECTION OF CEILING JOISTS

INDICATES SPAN AND DIRECTION OF DECK JOISTS (SLOPED AS REQUIRED)

MARK	SPACING	MANUFACTURER	SIZE & WEIGHT OPTIONS
C	12" O.C.	Q	9 1/2" I4 / 210
R	16" O.C.	Q	11 7/8" I4 / 210
S	18" O.C.	Q	14" I4 / 230
U	12" O.C.	Q	11 7/8" I4 / 210
V	16" O.C.	Q	14" I4 / 230
W	18" O.C.	Q	16" I4 / 250
X	12" O.C.	Q	11 7/8" I4 / 210
Y	16" O.C.	Q	14" I4 / 230
Z	19" O.C.	Q	16" I4 / 250

FRAMING NOTES LEGEND

MARK	DESCRIPTION
SP12	166 SOLE PLATE NAILING @ 12" O.C.
SP10	166 SOLE PLATE NAILING @ 10" O.C.
SP8	166 SOLE PLATE NAILING @ 8" O.C.
SP6	166 SOLE PLATE NAILING @ 6" O.C.
SP4	166 SOLE PLATE NAILING @ 4" O.C.
SP2	166 SOLE PLATE NAILING @ 2" O.C.

CEILING JOIST SCHEDULE

MARK	DESCRIPTION	SIZE	SPACING	SPAN GRADE NO 2
Q	11 7/8" I4	11 7/8" I4	12" O.C.	2
R	14" I4	14" I4	16" O.C.	2
S	16" I4	16" I4	18" O.C.	2
U	11 7/8" I4	11 7/8" I4	12" O.C.	2
V	14" I4	14" I4	16" O.C.	2
W	16" I4	16" I4	18" O.C.	2
X	11 7/8" I4	11 7/8" I4	12" O.C.	2
Y	14" I4	14" I4	16" O.C.	2
Z	16" I4	16" I4	18" O.C.	2

INDICATES (1) 3/4" x DEPTH OF JOIST MICROLAM LVL 1.9 E

M=1 INDICATES PARALLEL PSL 2.0 E

PSL INDICATES PARALLEL PSL 2.0 E

TSR INDICATES 1 1/2" BY DEPTH OF JOIST TIMBERSTRAND RIM

E.N. INDICATES EDGE NAILING @ 6" O.C.

G.T. GIRDER TRUSS

C-TM INDICATES CONNECTION BY TRUSS MANUFACTURER

H INDICATES HEADERS AND BEAMS, REFER TO ENGINEERING CALC.

INDICATES INTERIOR BEARING WALL

INDICATES INTERIOR BEARING WALL

APPLY SHEAR PRIOR TO FRAMING OF PERPENDICULAR WALL AND/OR BOX-OUTS. (WHERE APPLICABLE)

- FRAMING NOTES LEGEND**
- INDICATES SPAN AND DIRECTION OF ROOF JOISTS AND RAFTERS
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REVISIONS

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STRUCTURAL ENGINEERS
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FAX: 774-907-0819

ROOF FRAMING PLAN
LOT 9

"HIGHLAND ESTATES"
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SAN MATEO COUNTY, CA.
THE CHAMBERLAIN GROUP - MGA



DRAWN

CHECKED

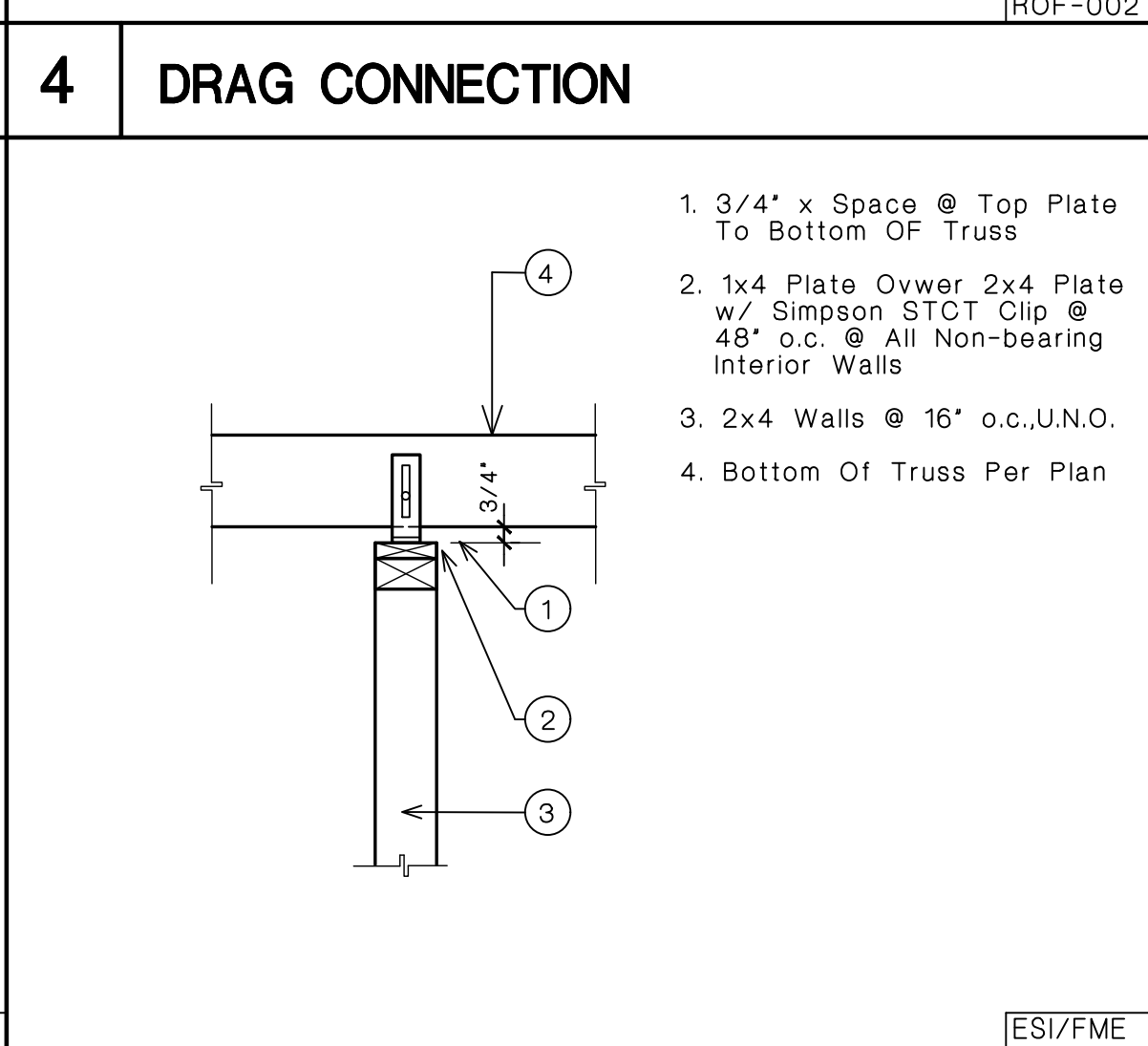
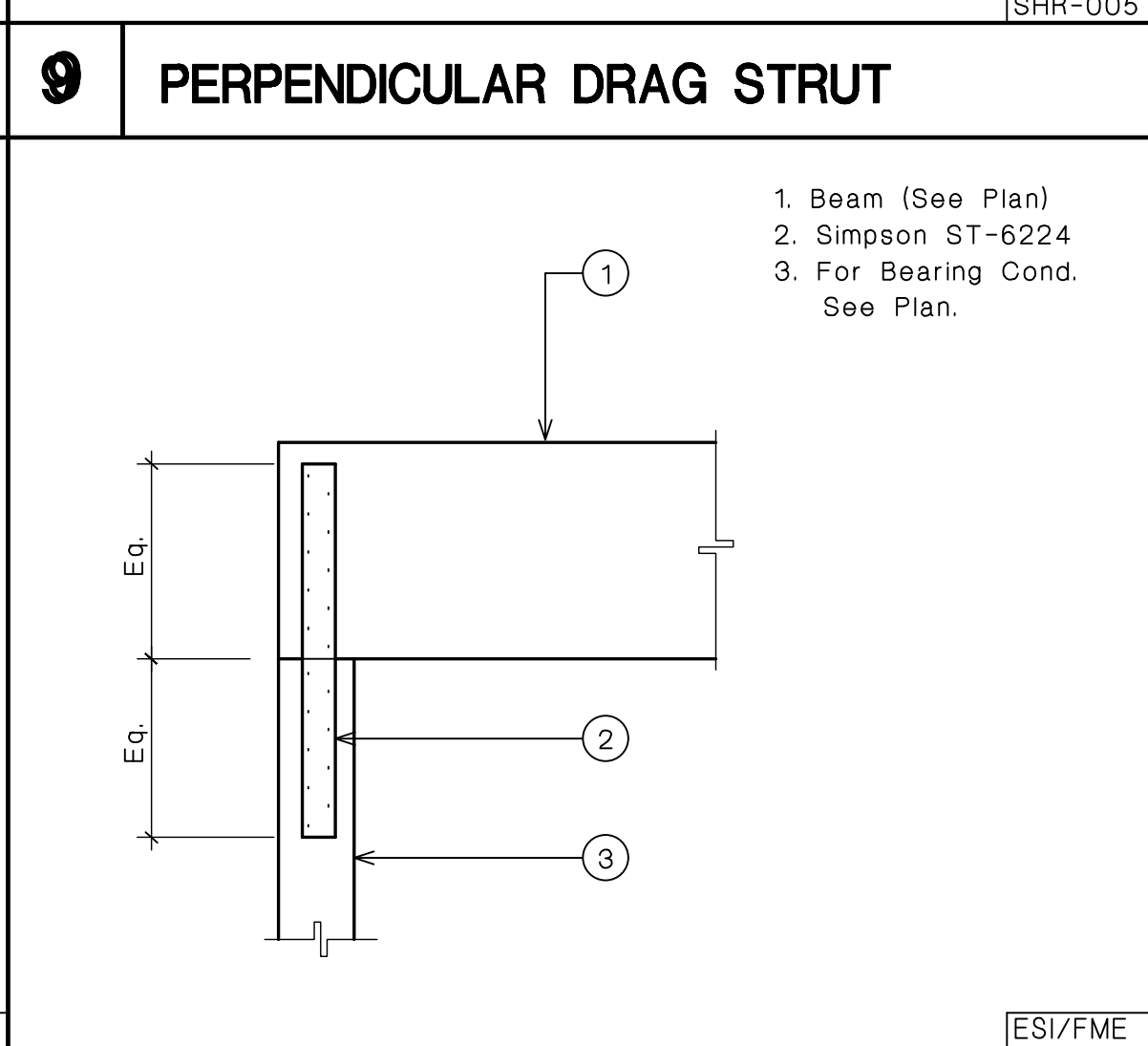
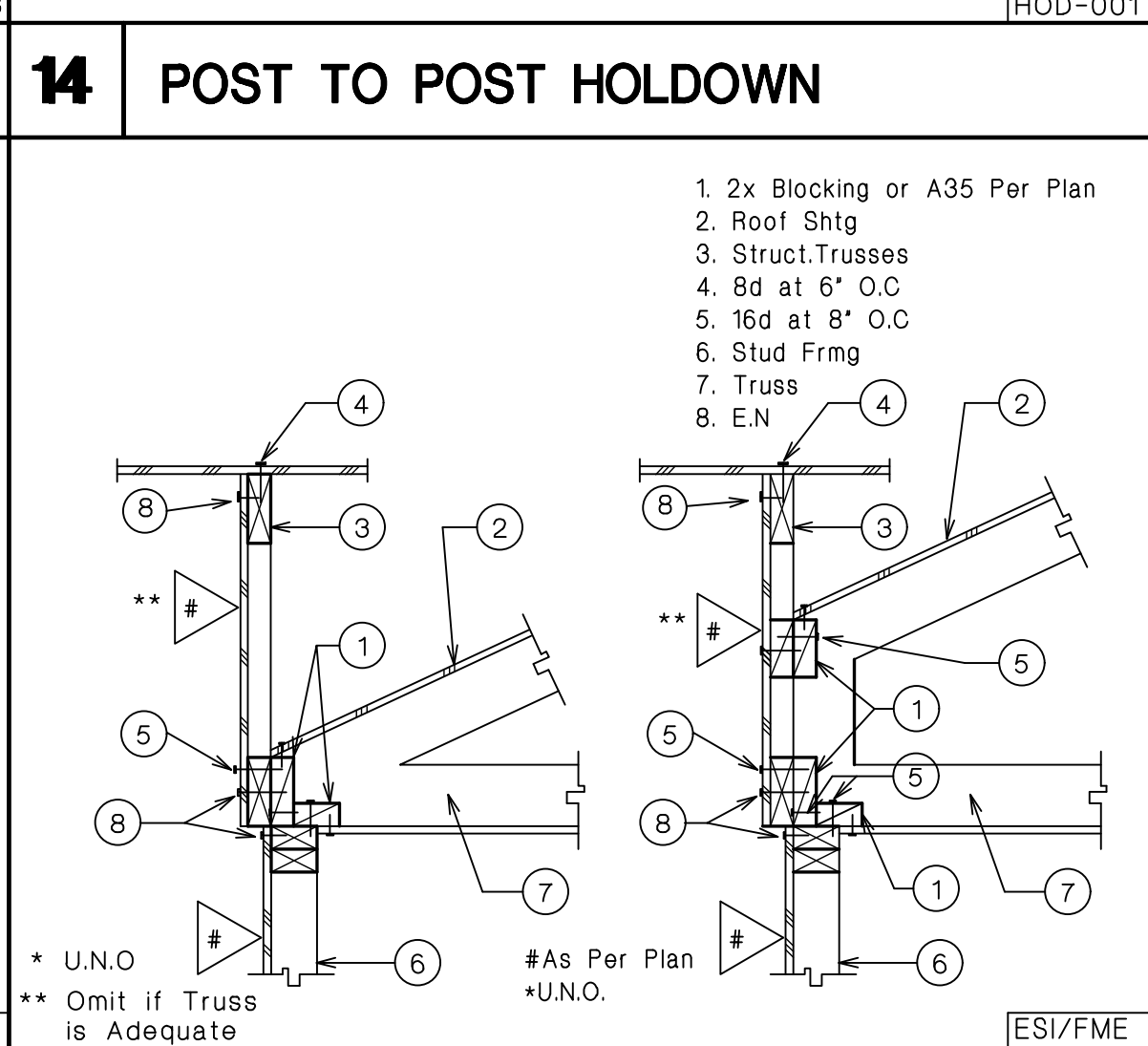
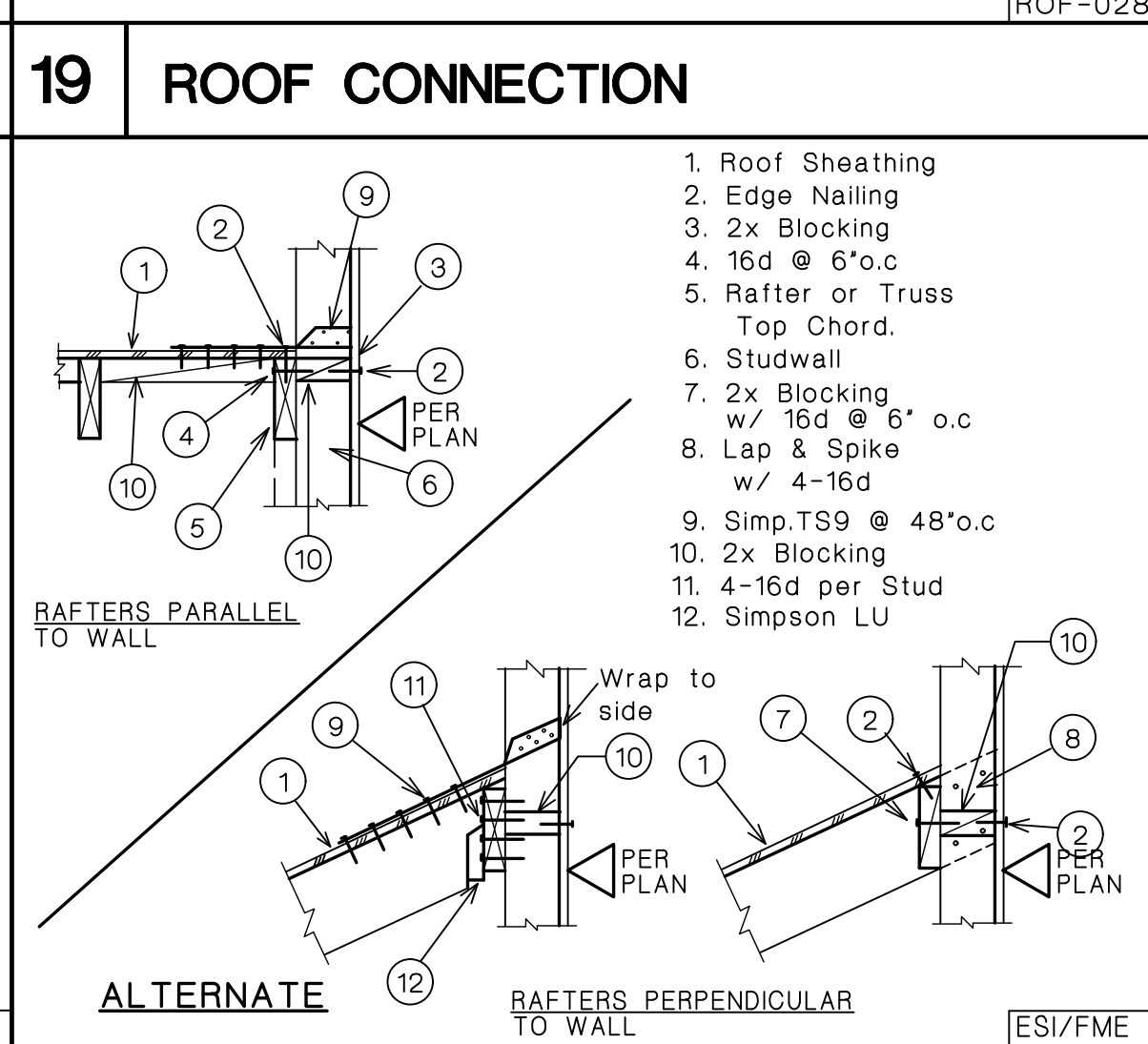
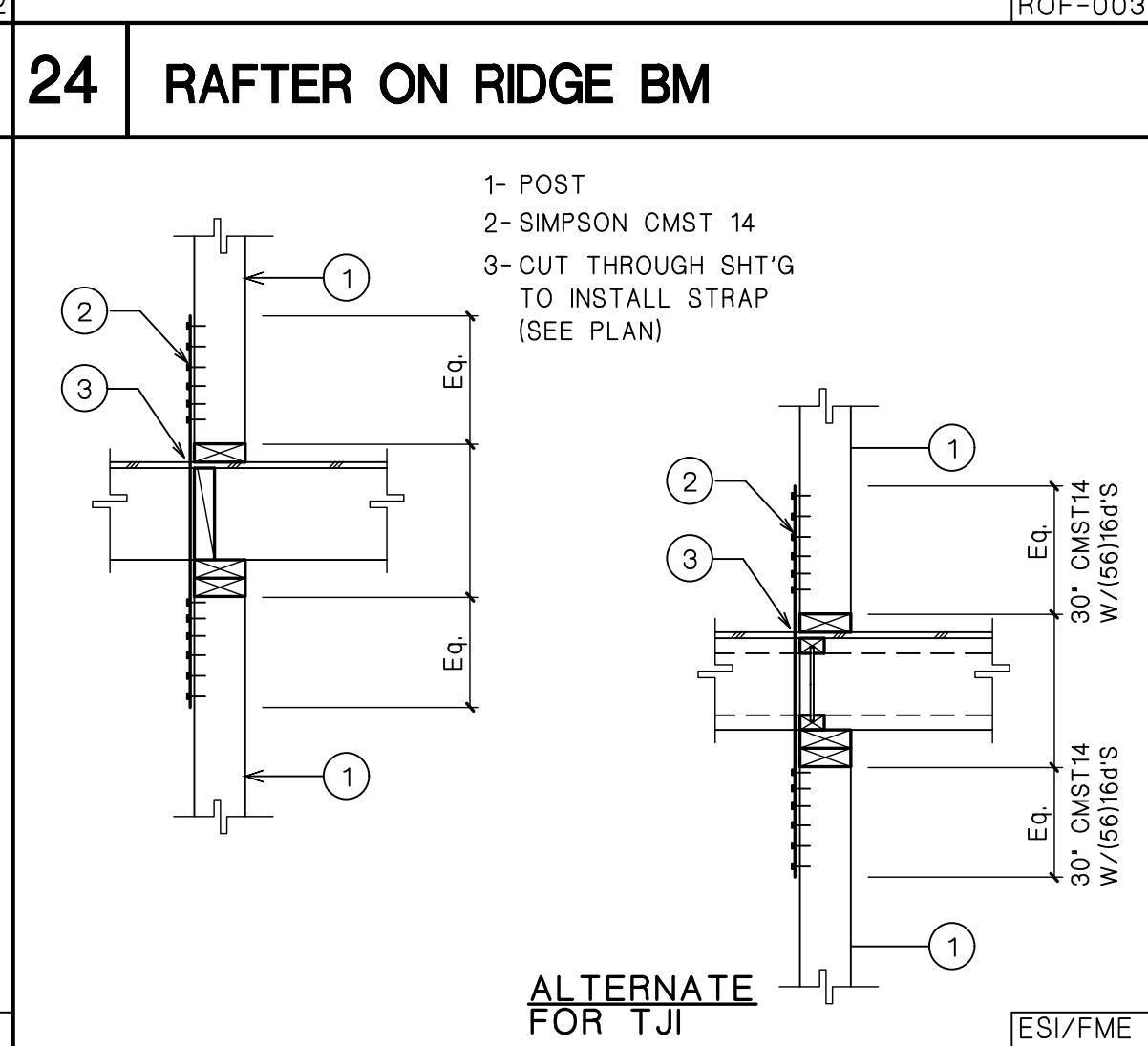
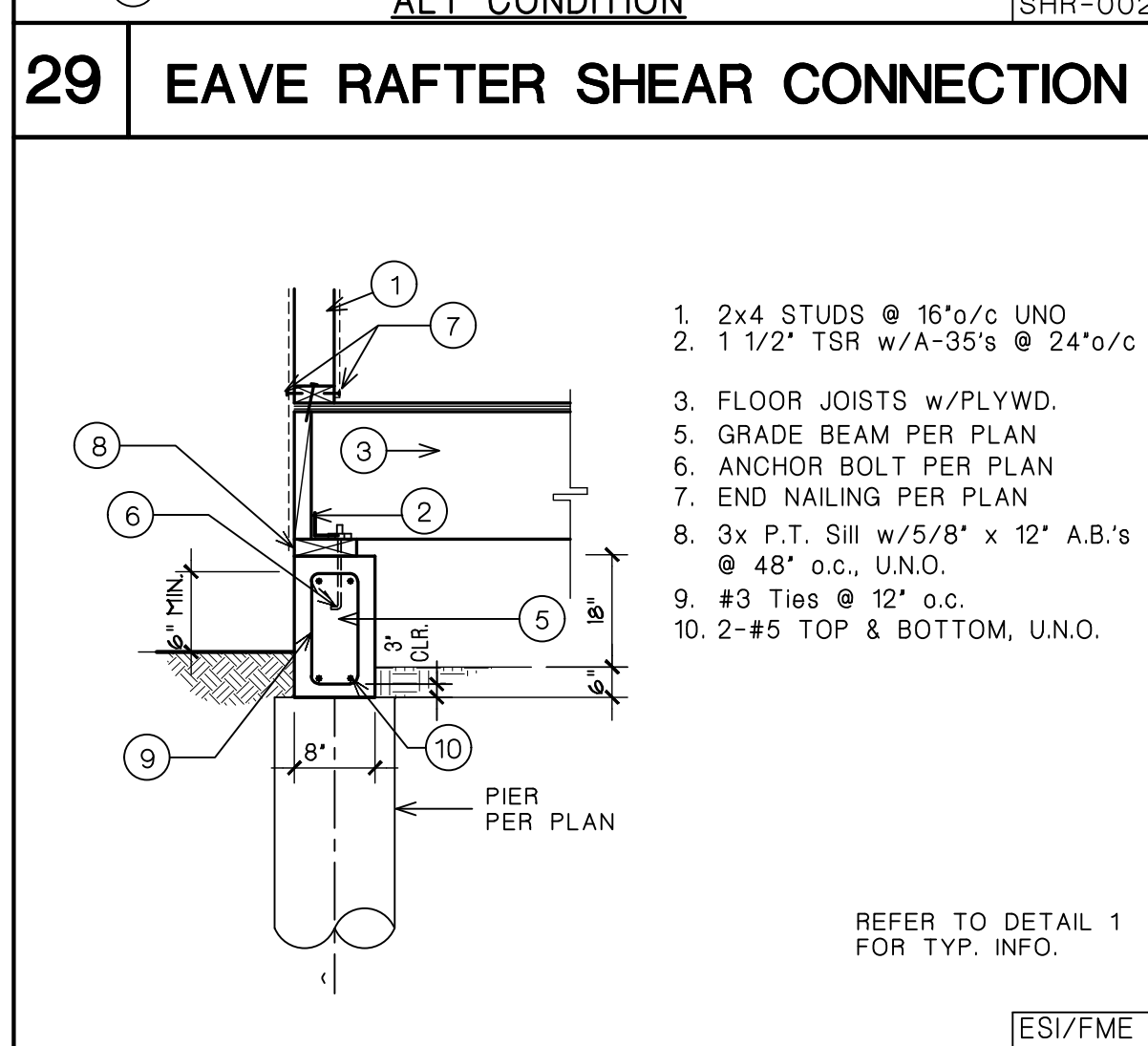
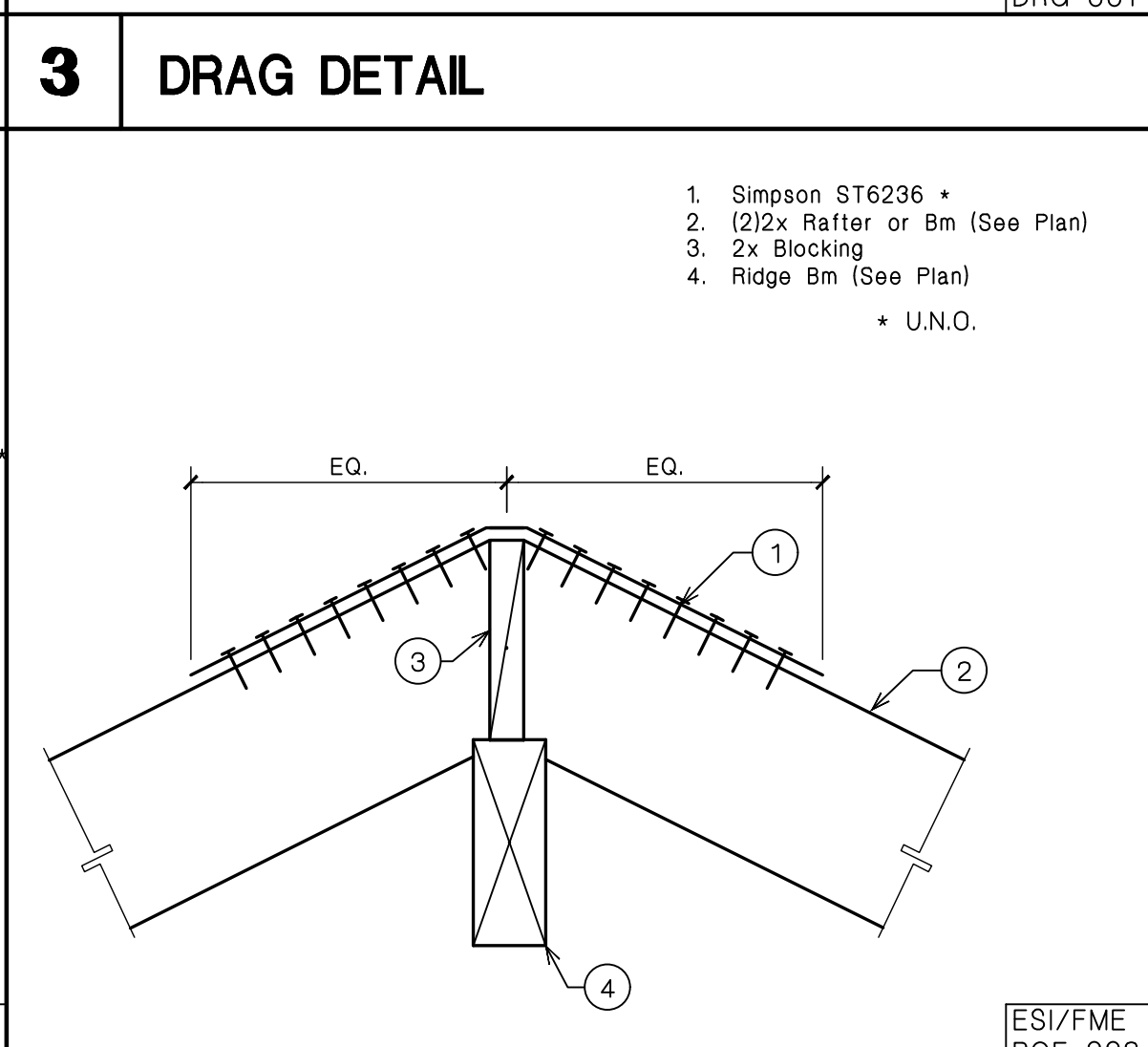
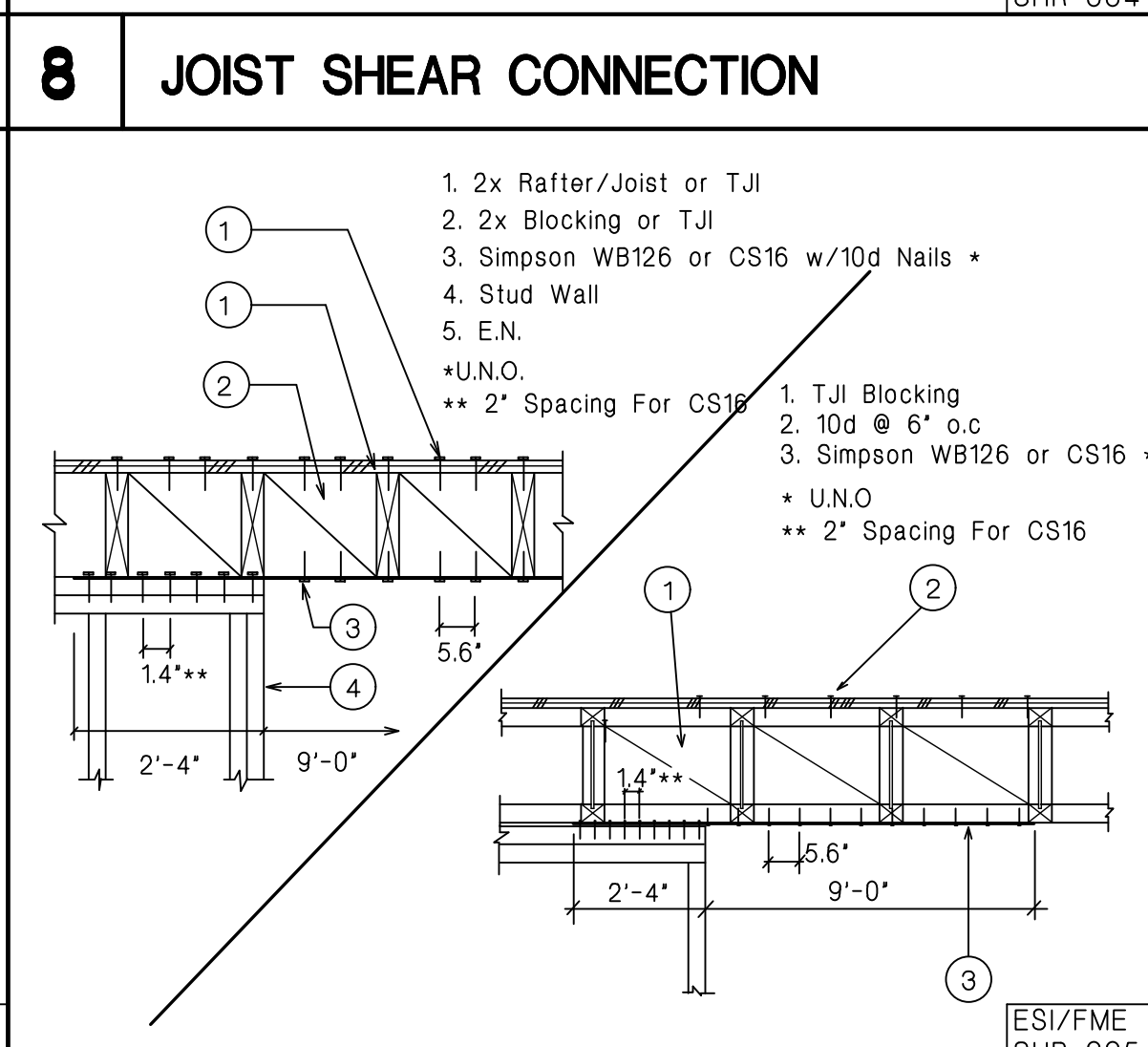
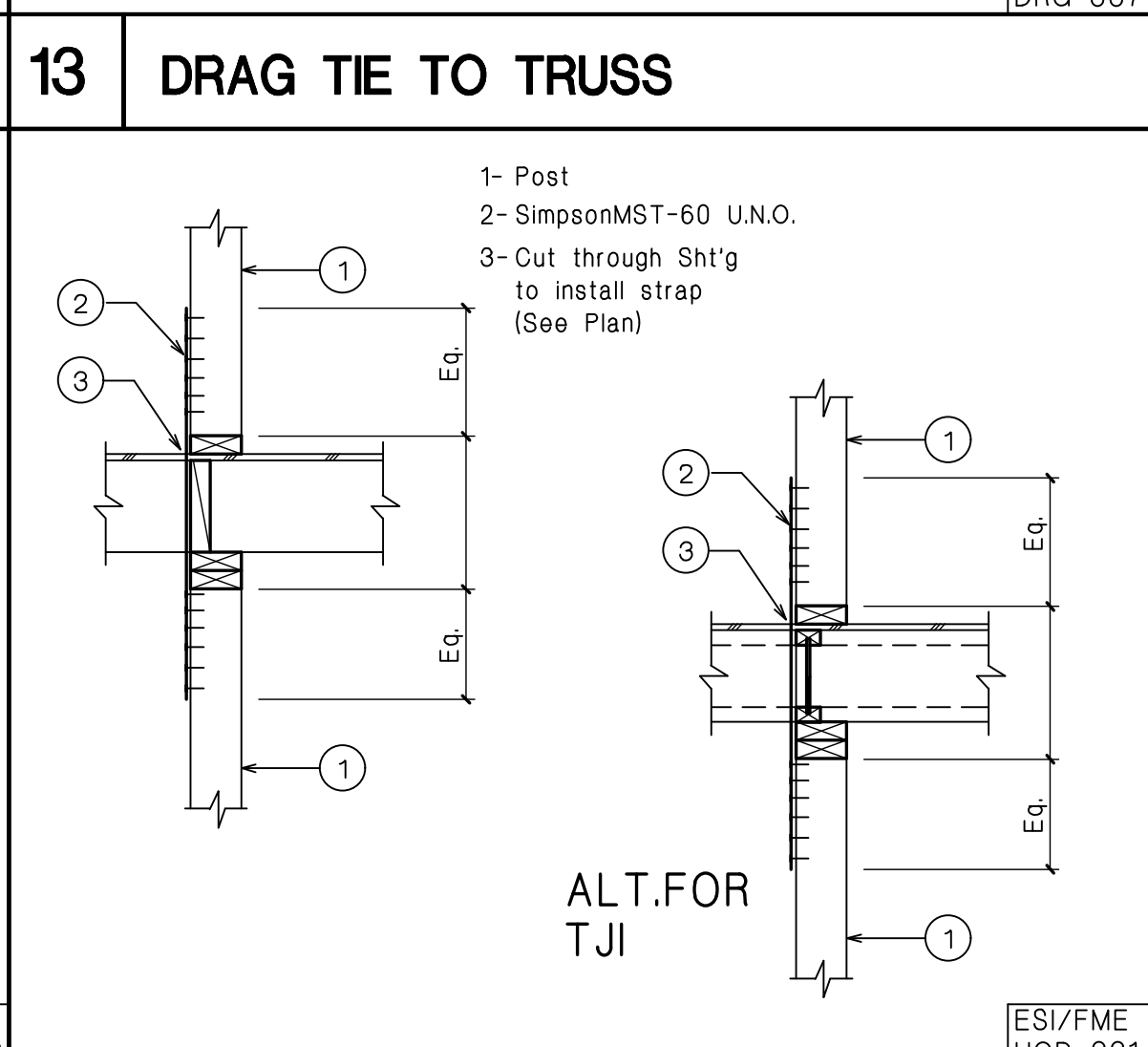
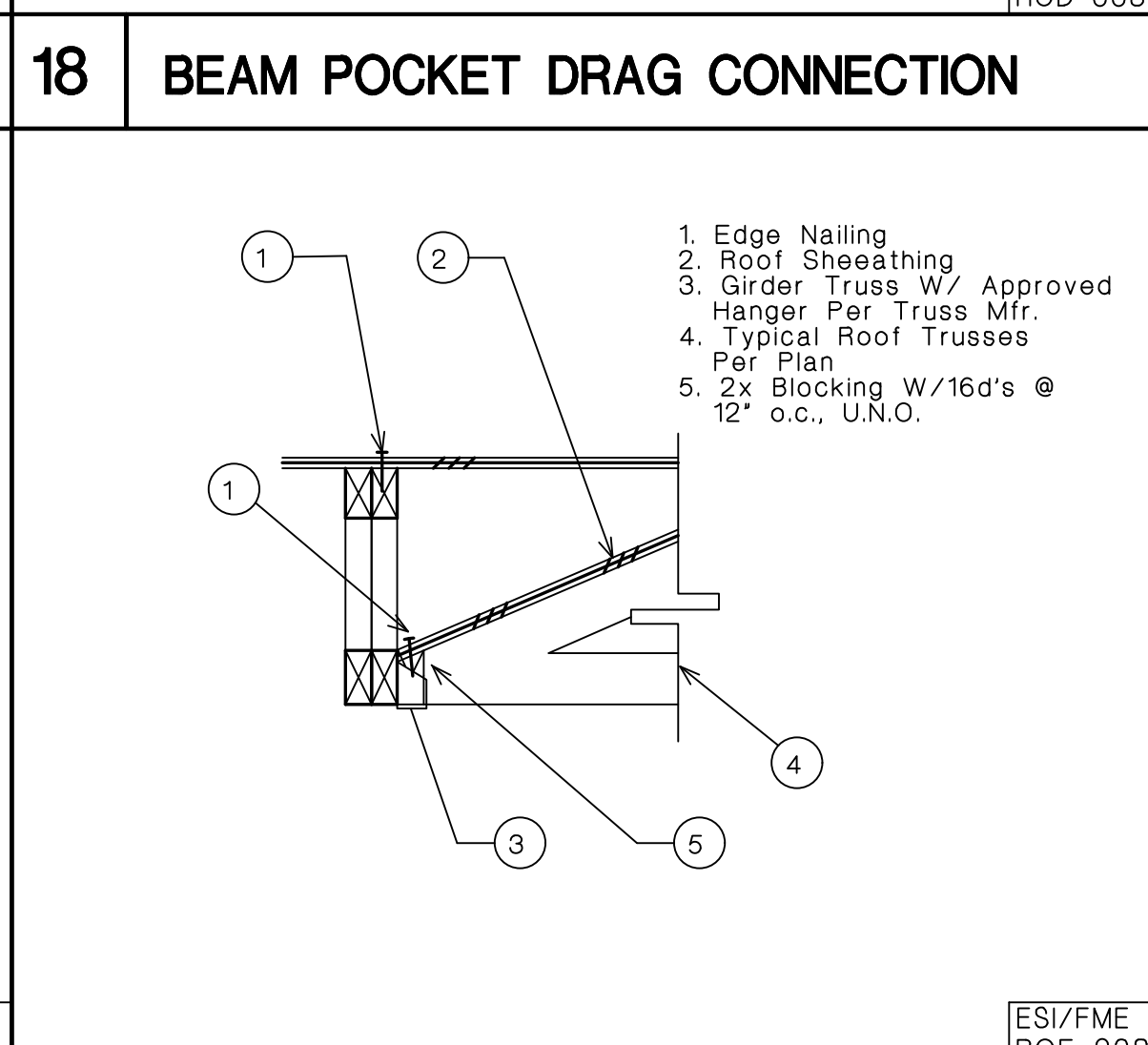
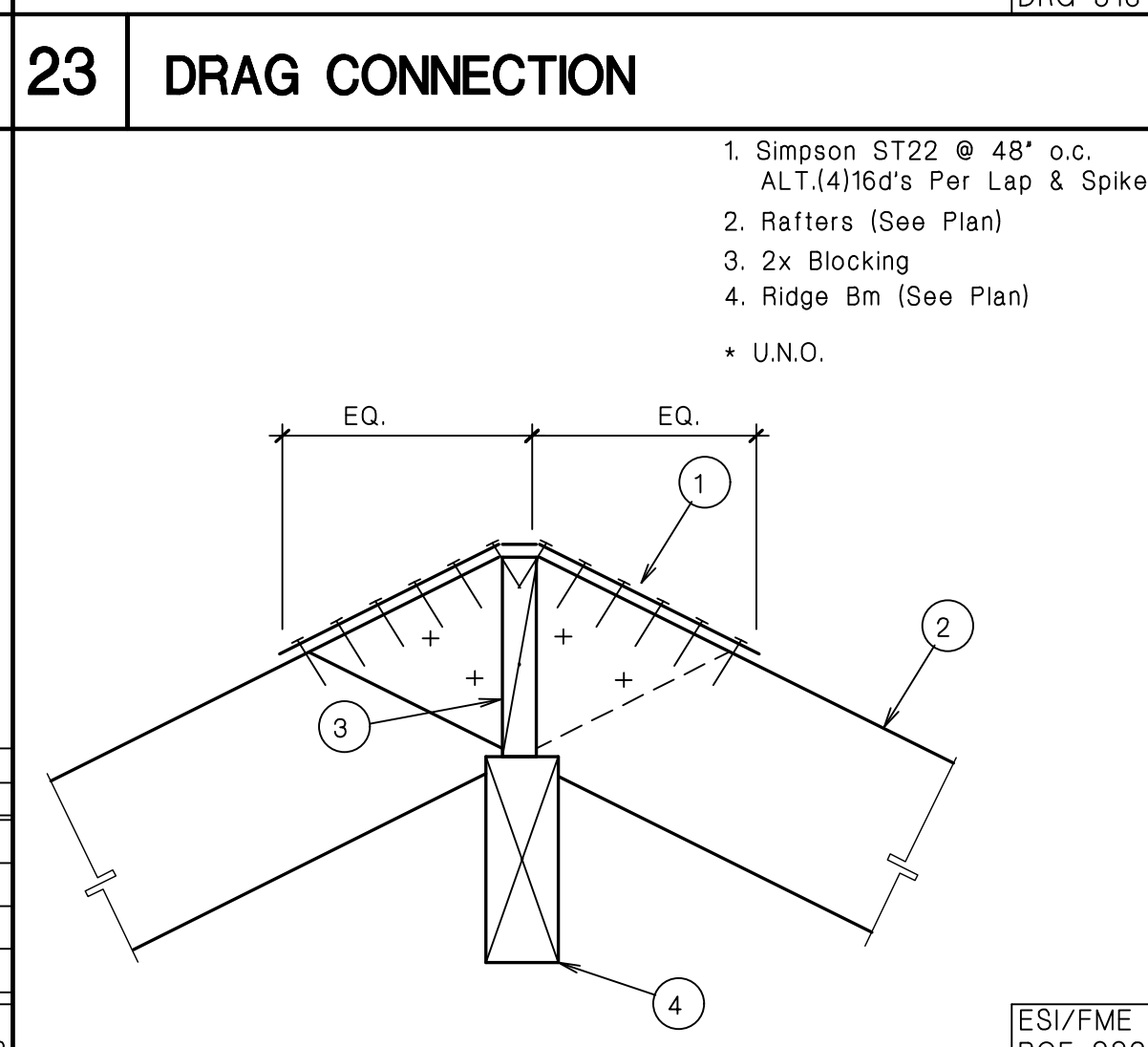
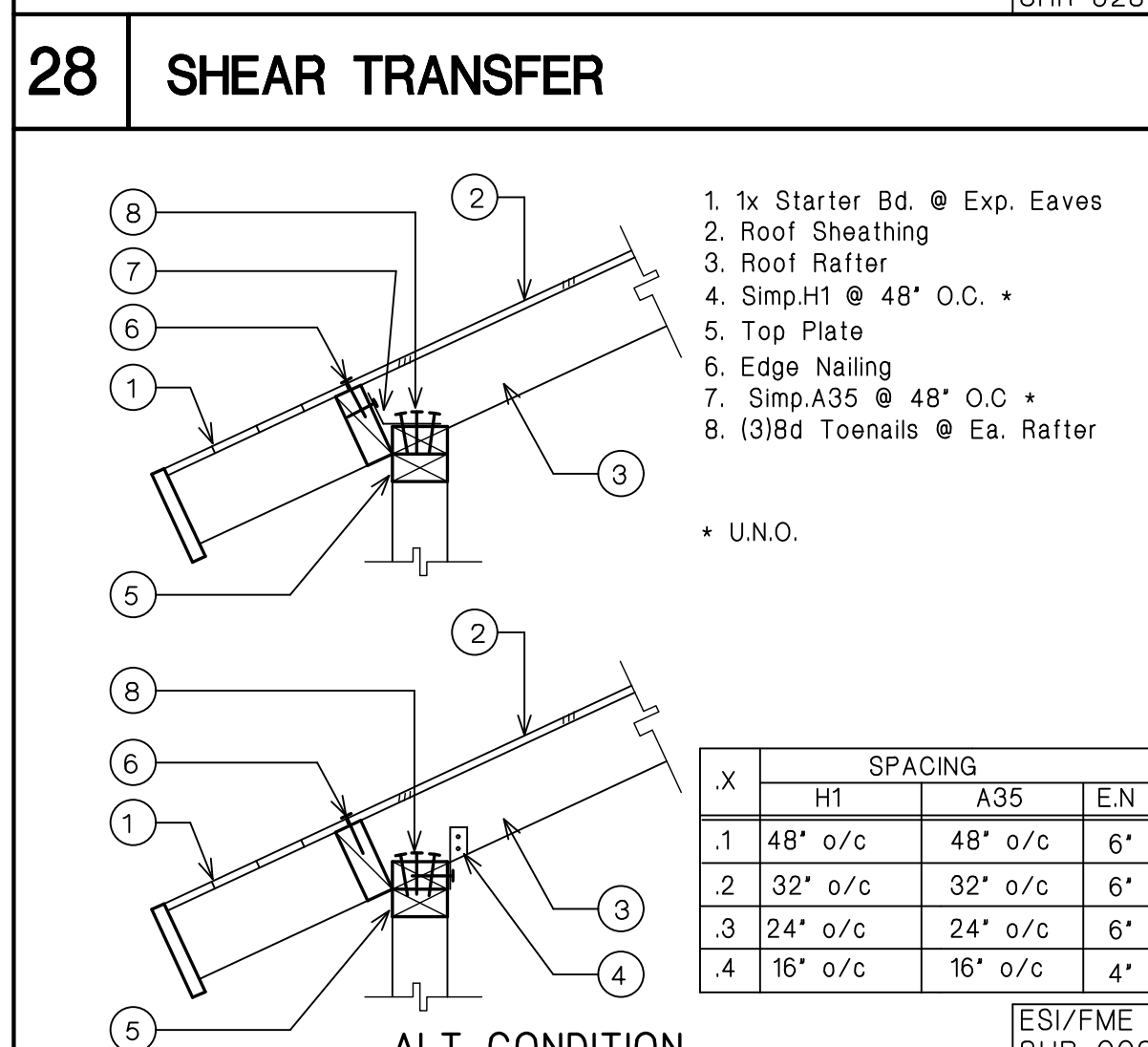
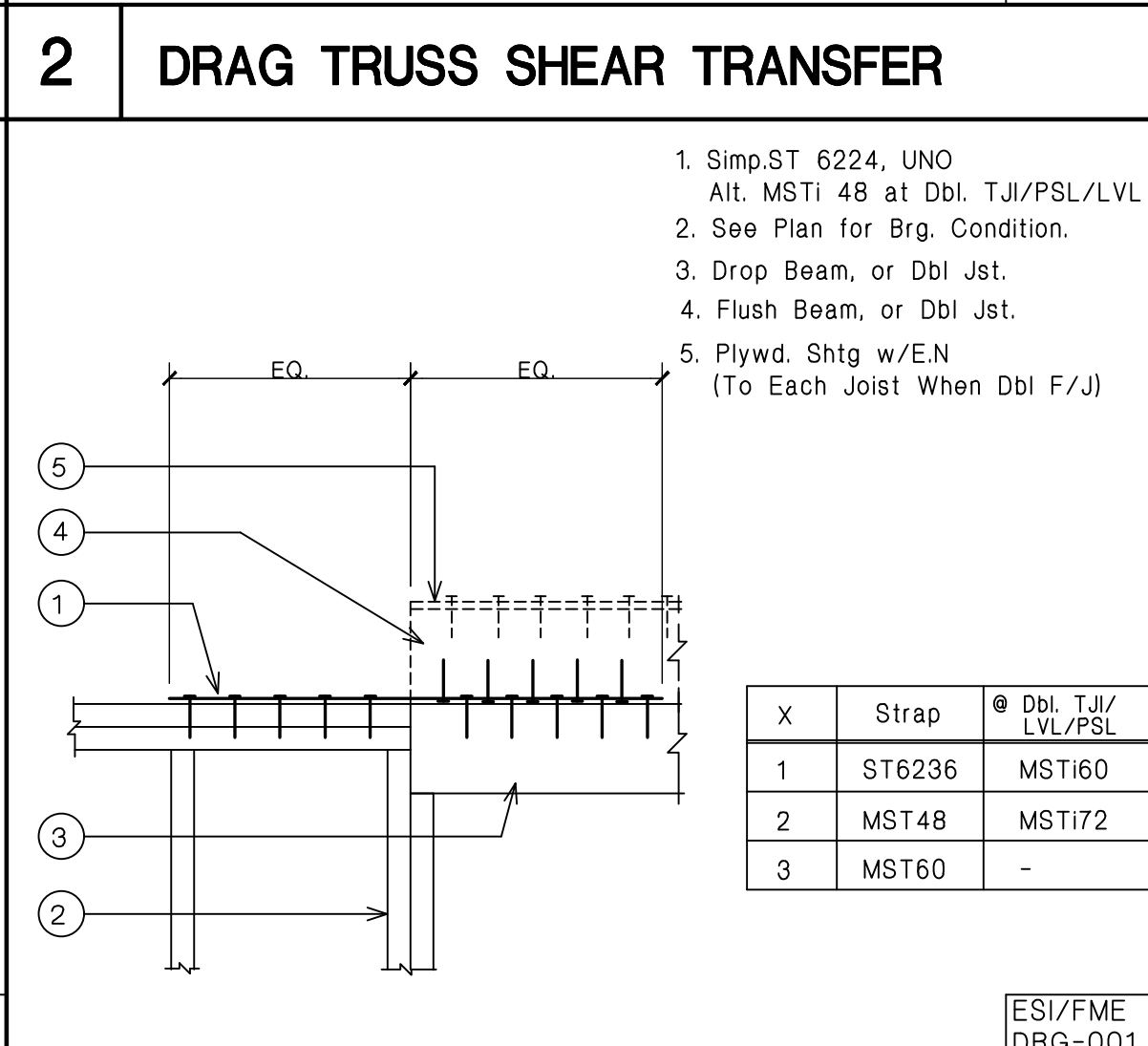
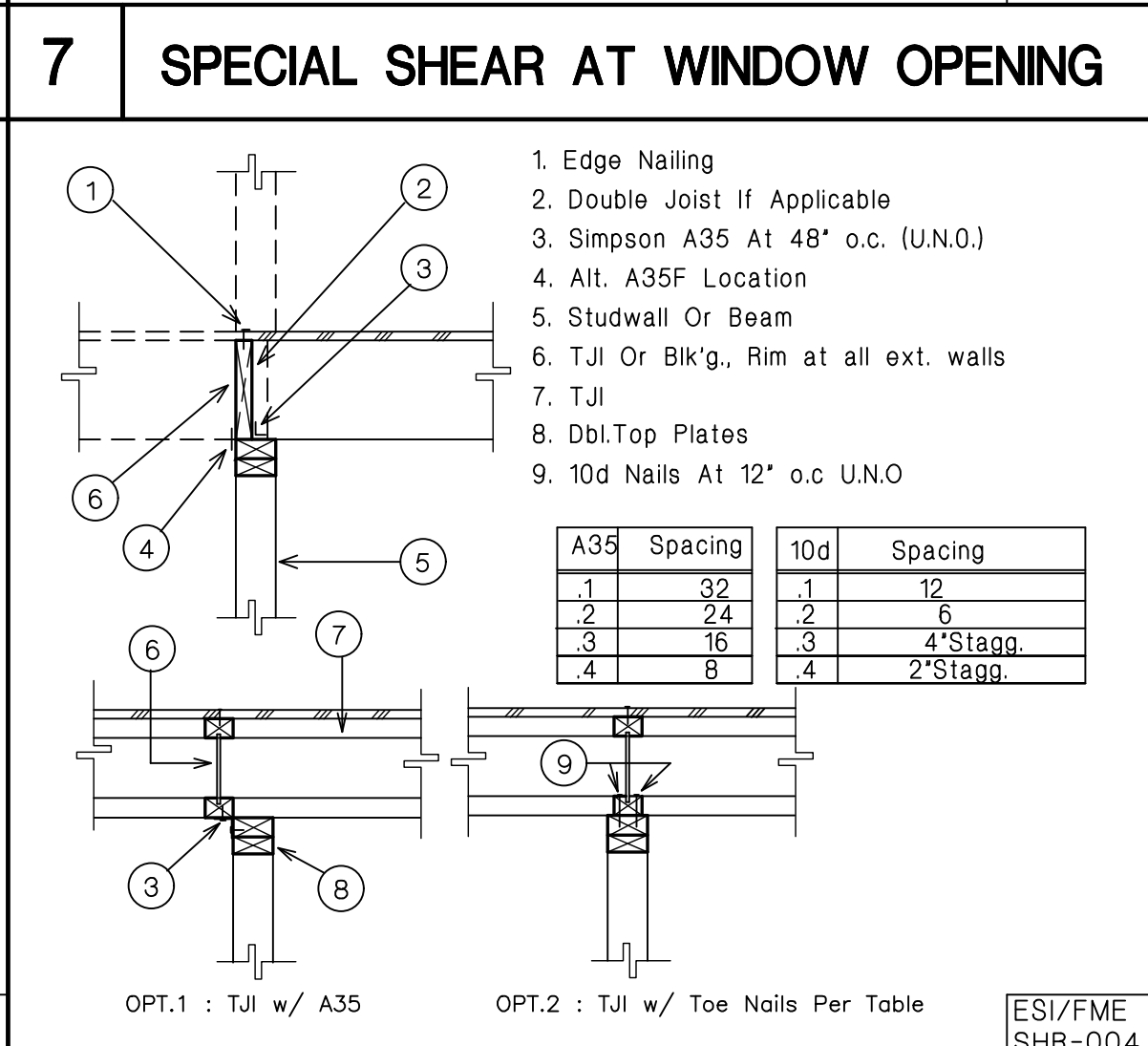
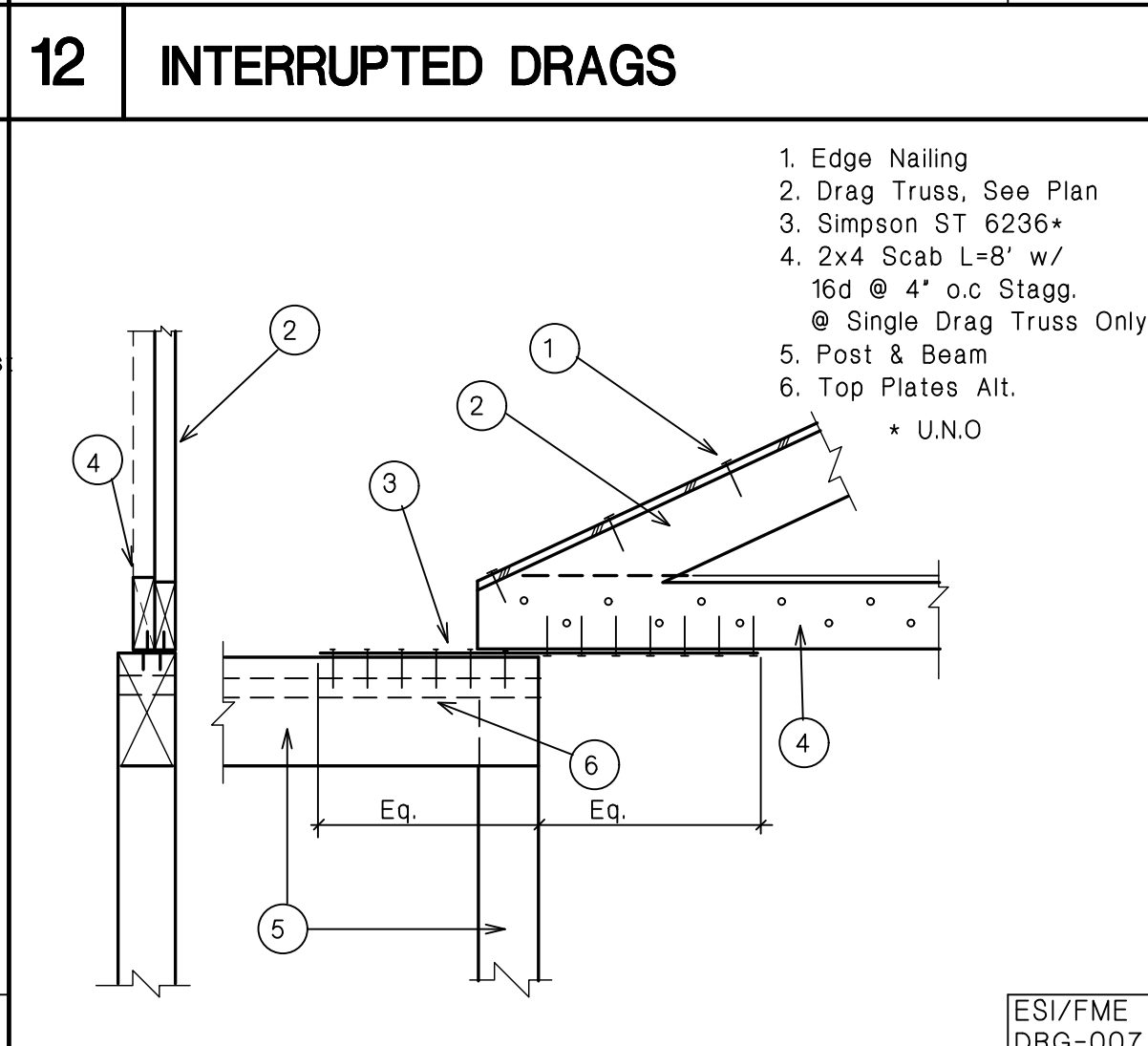
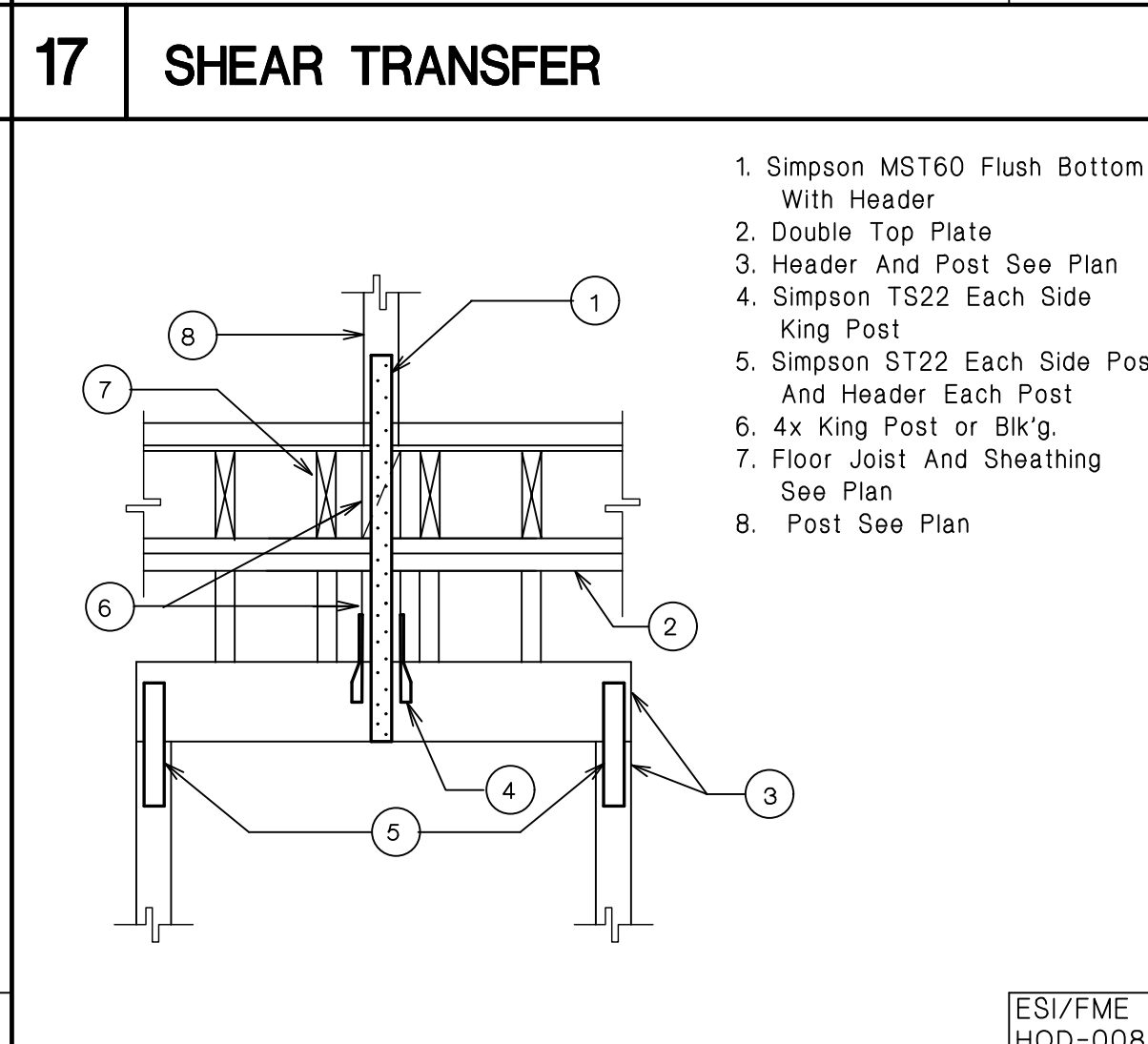
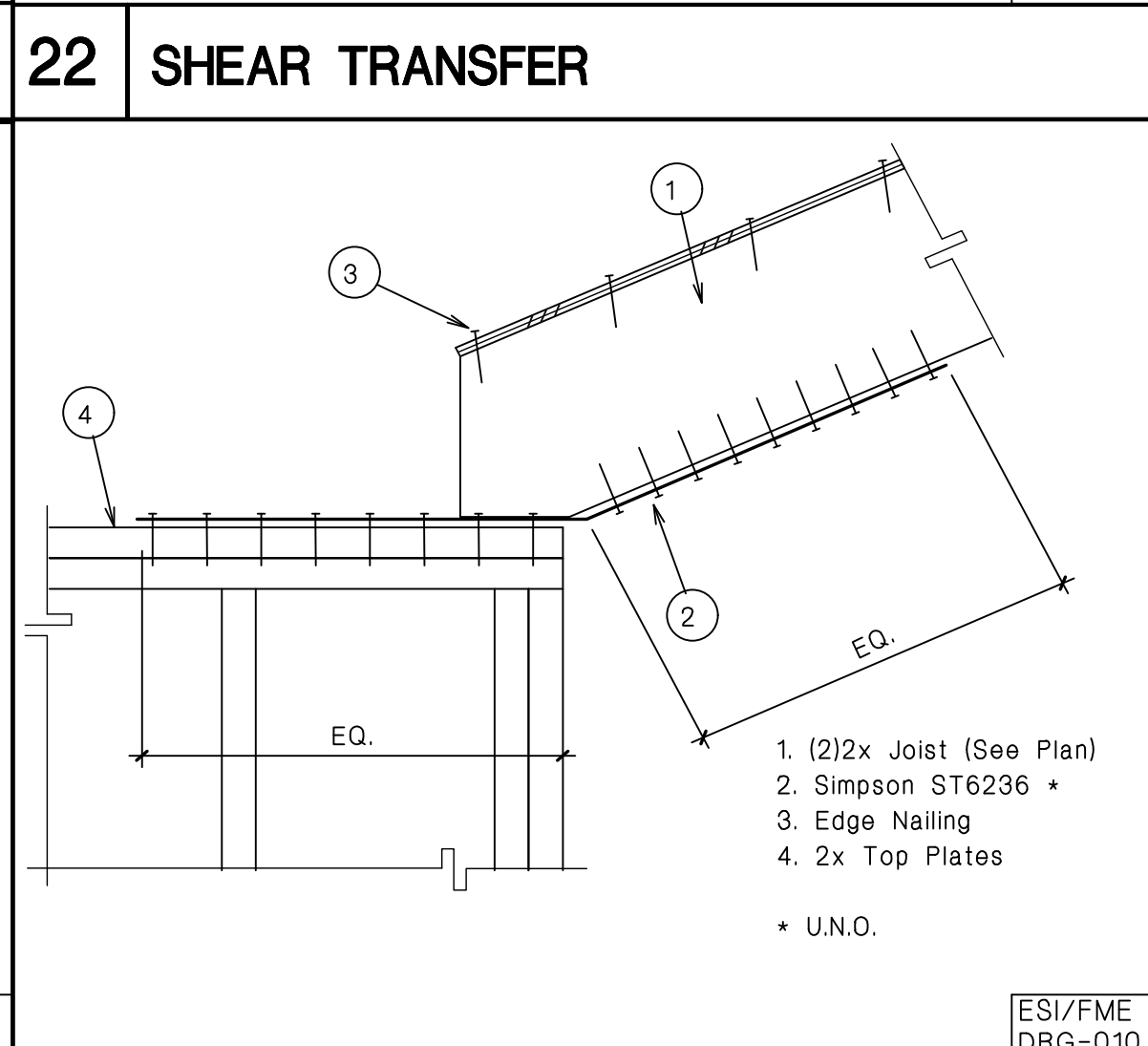
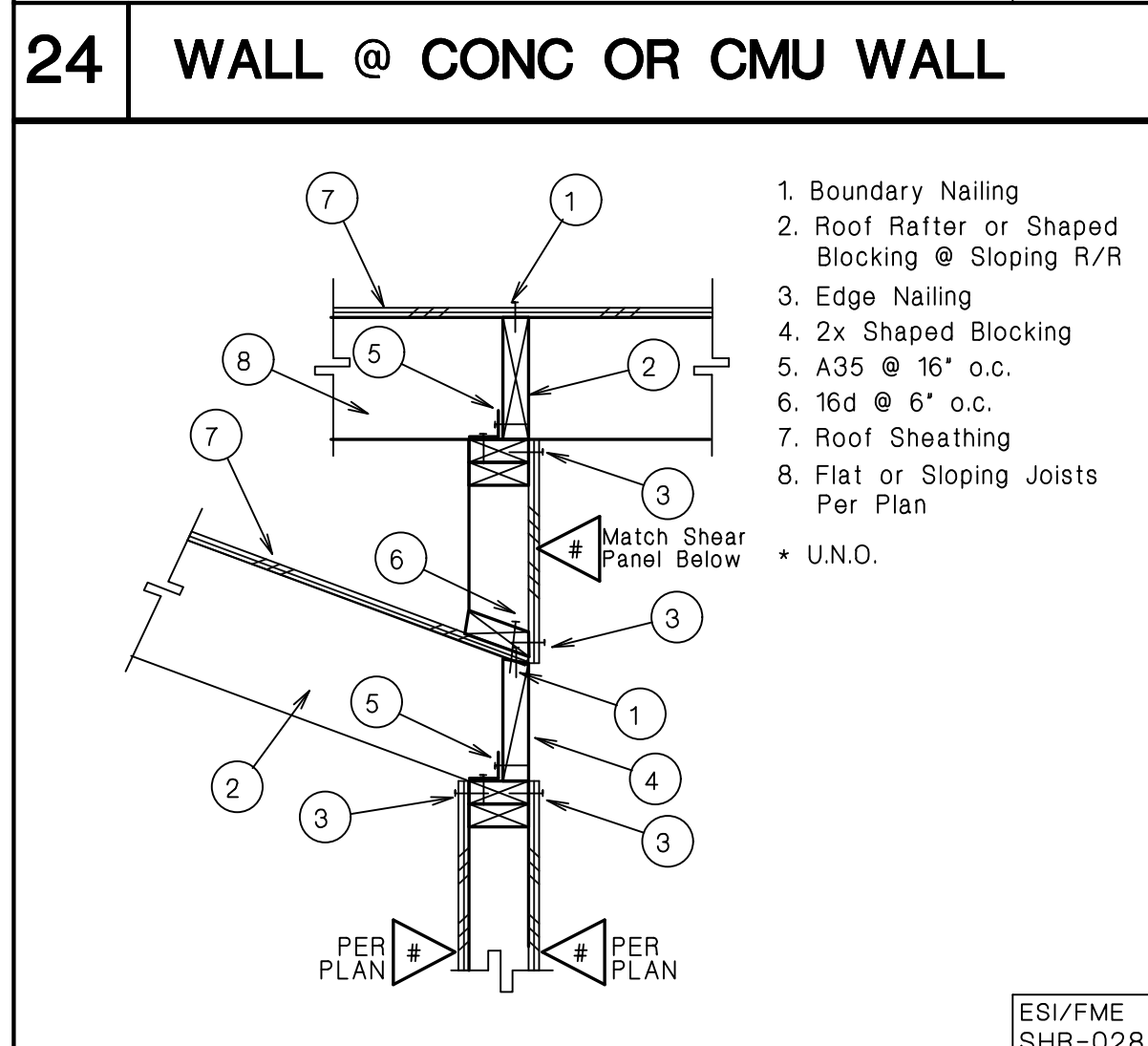
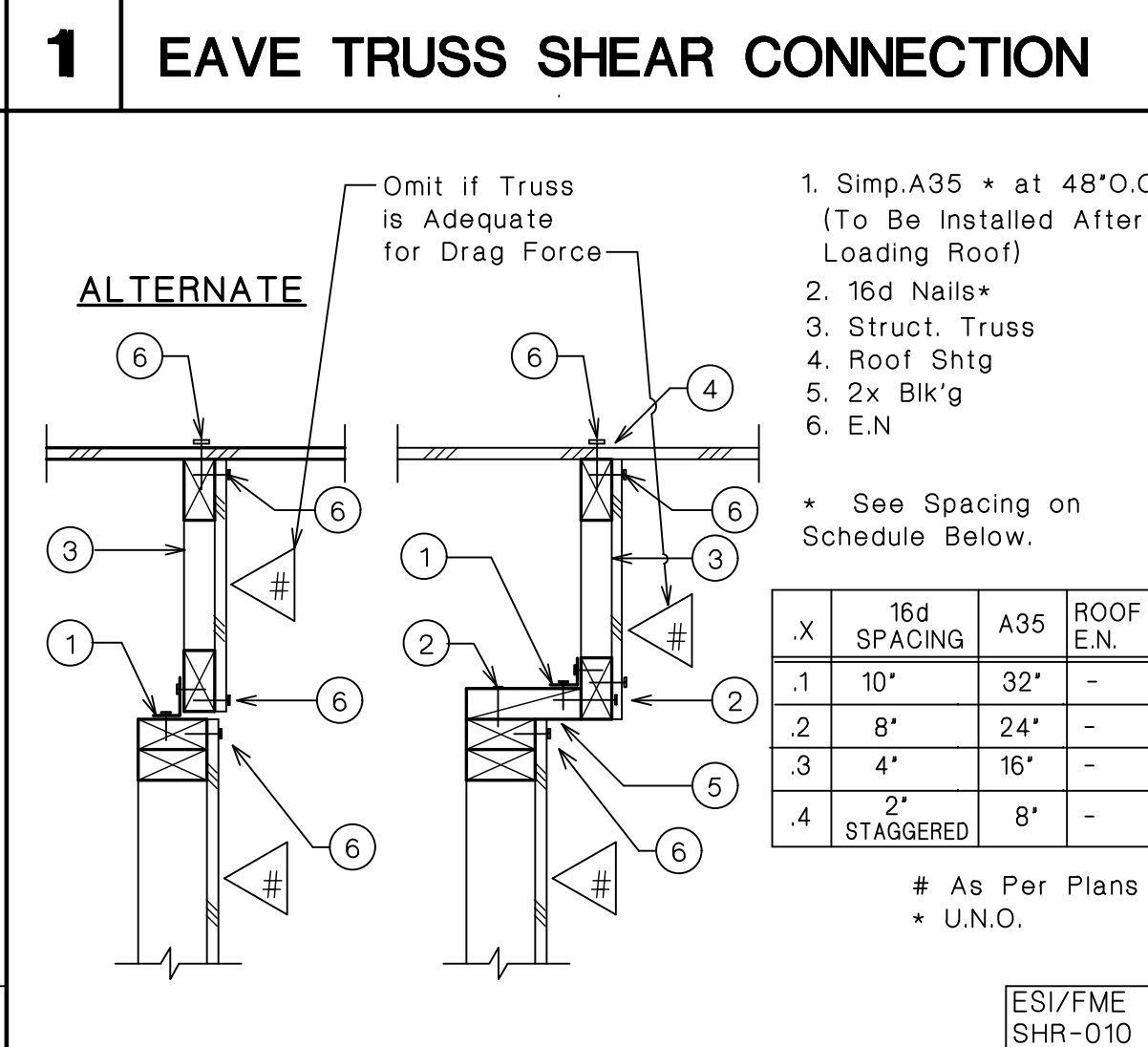
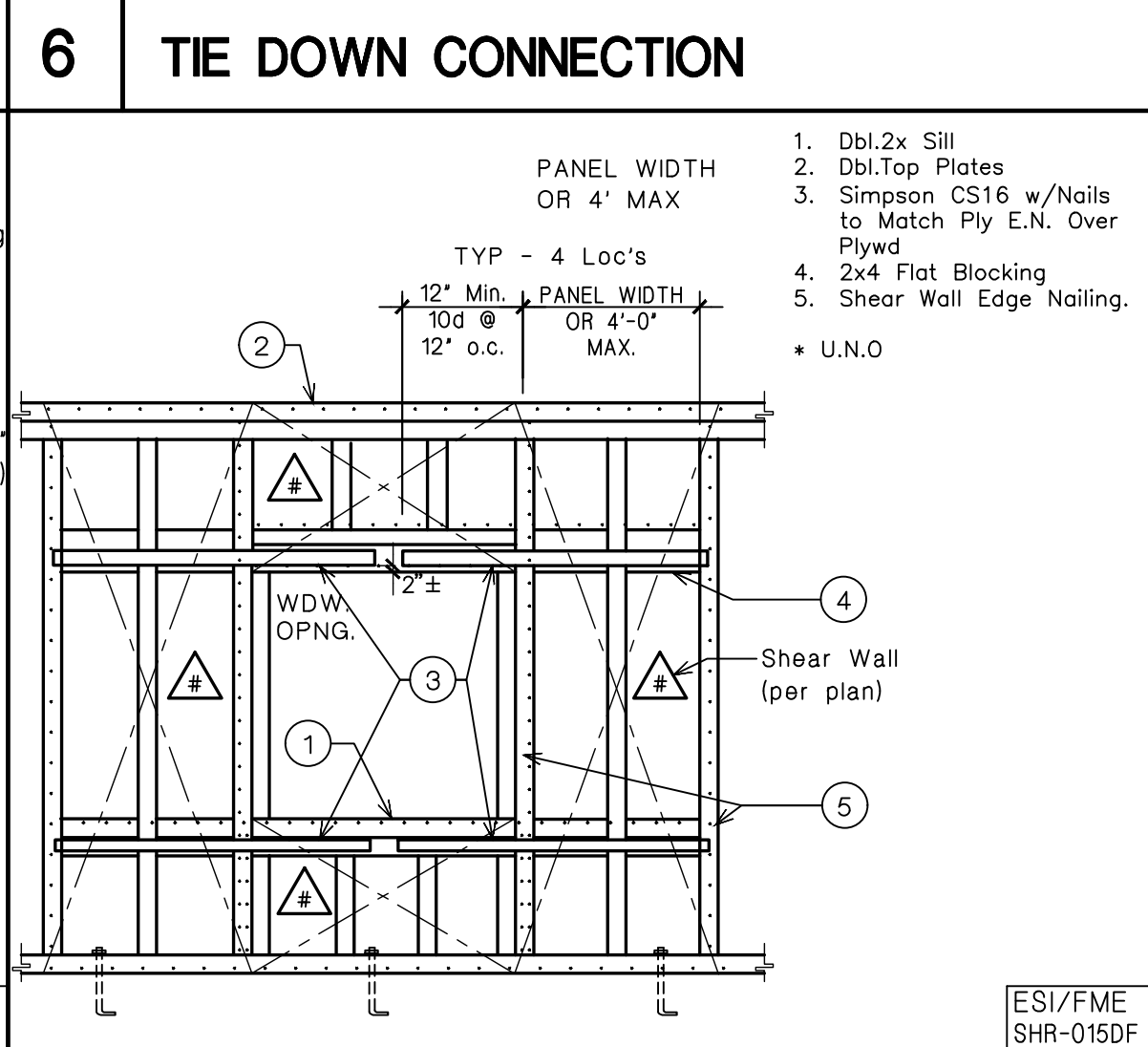
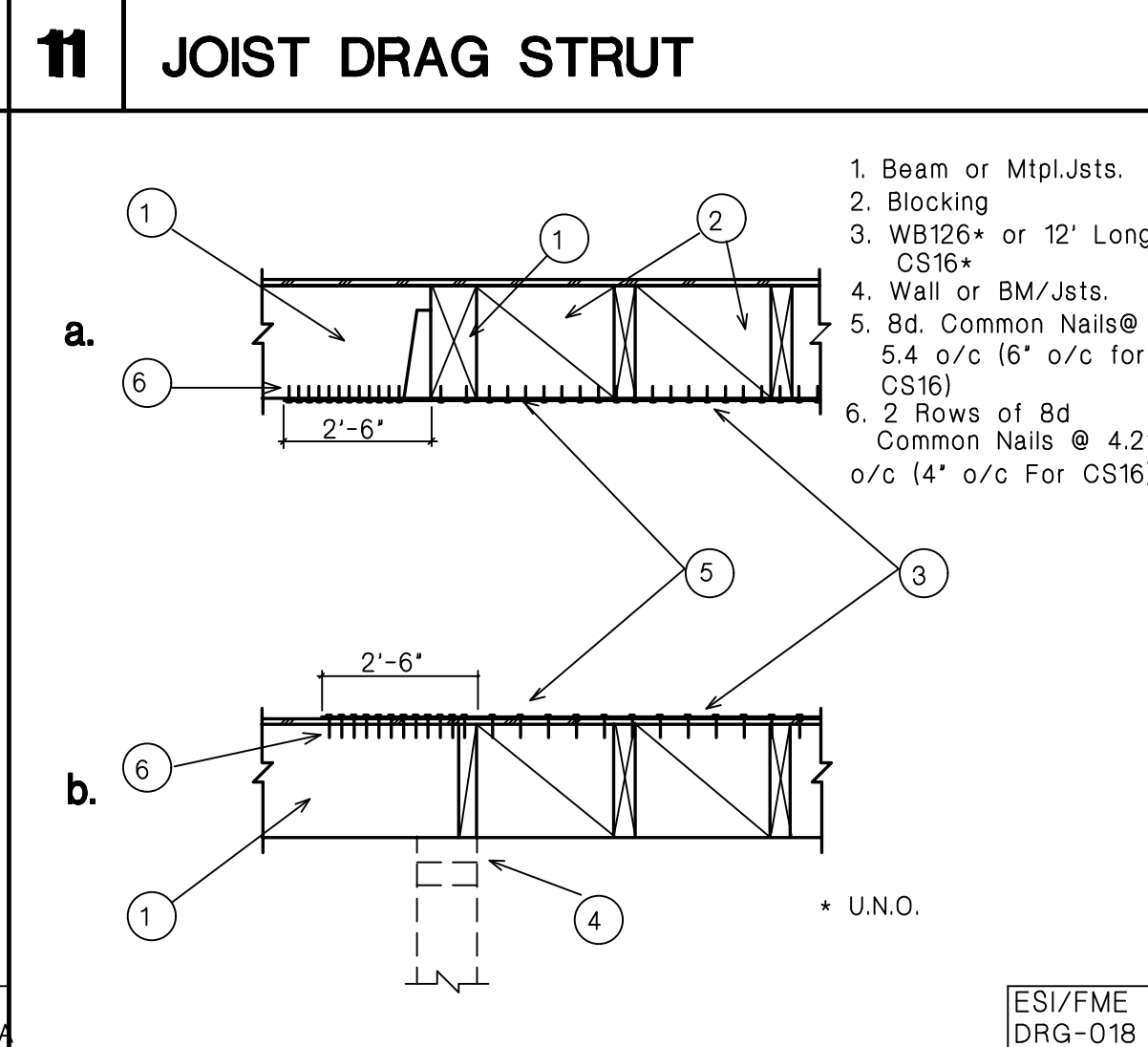
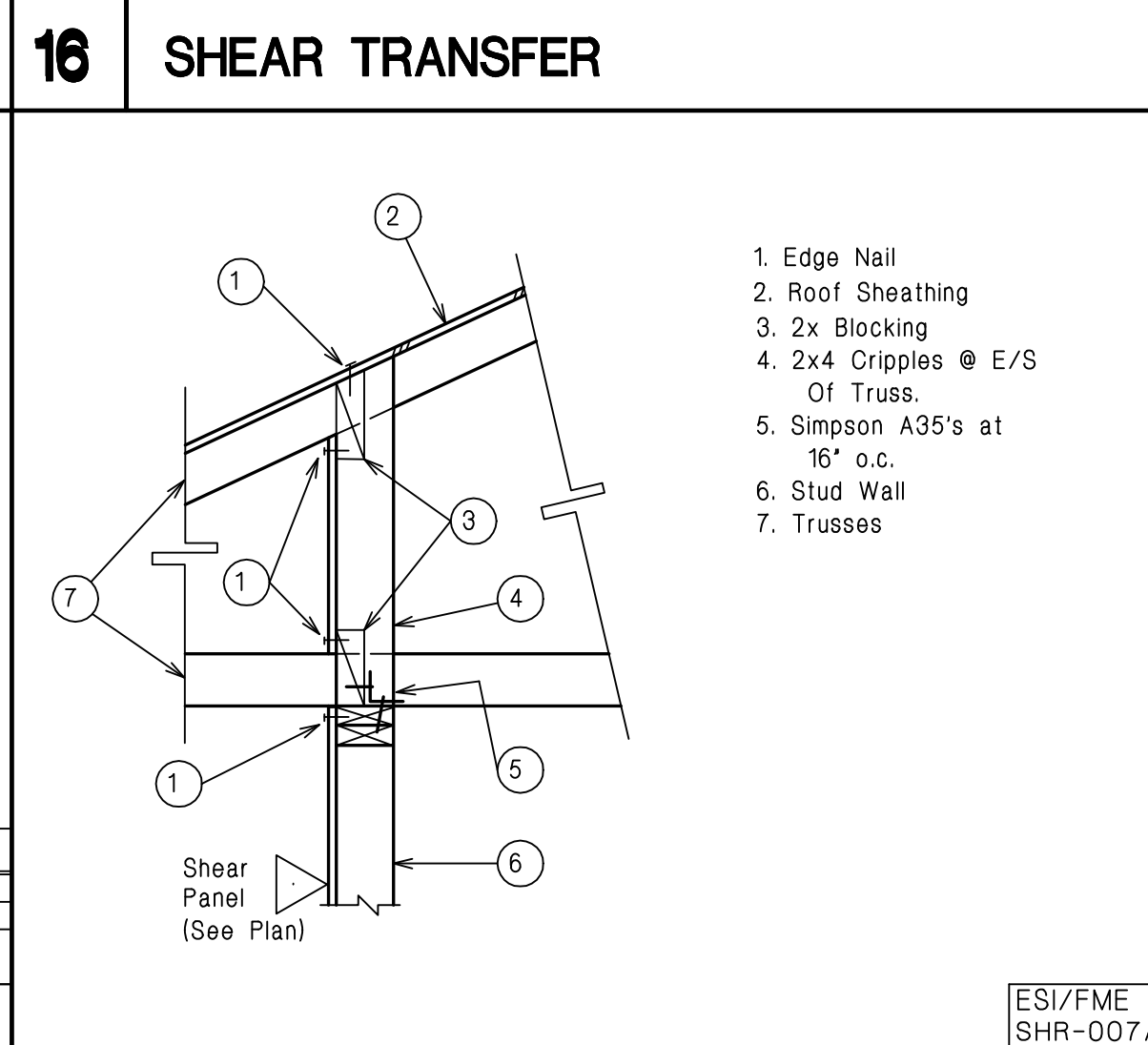
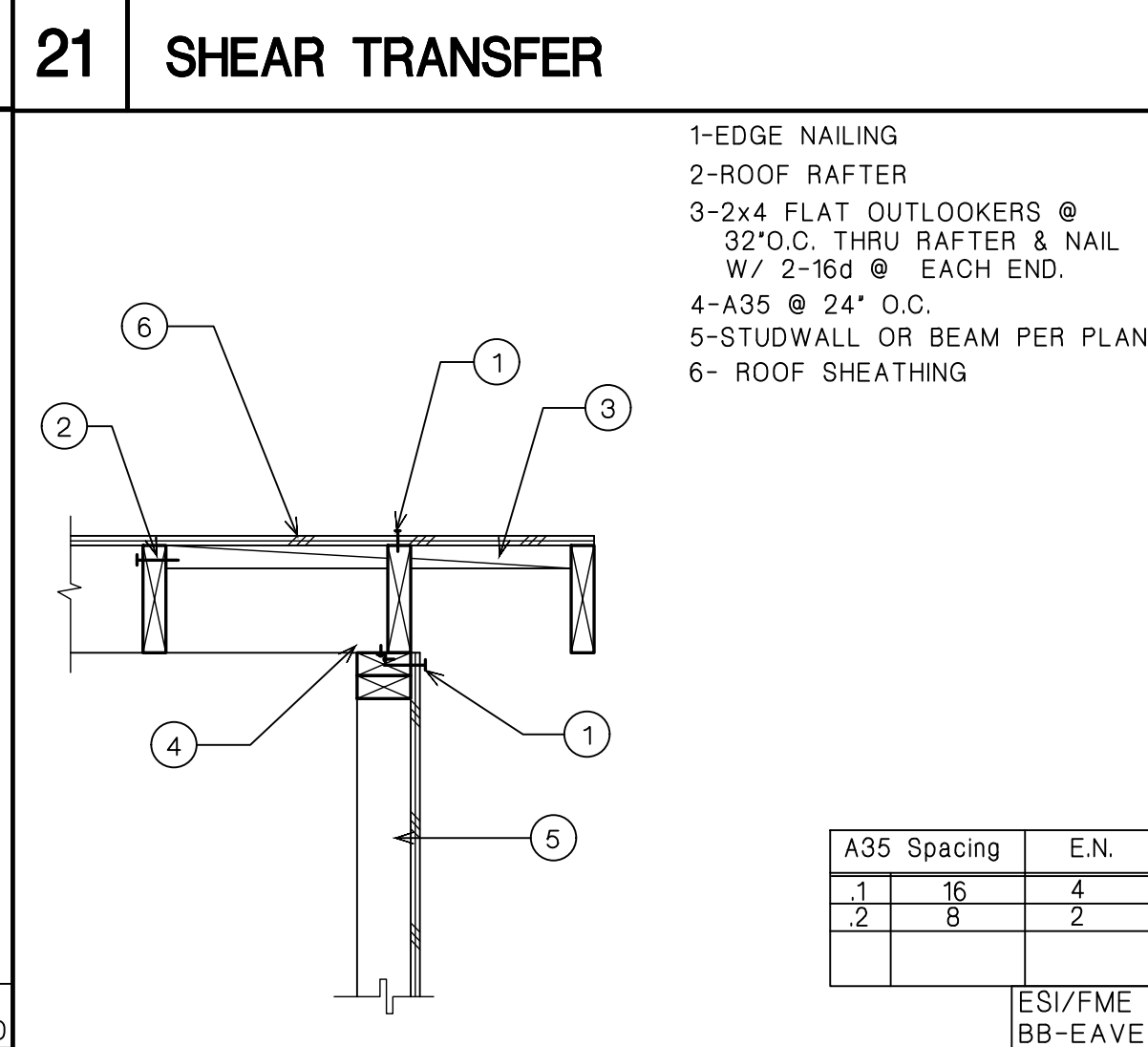
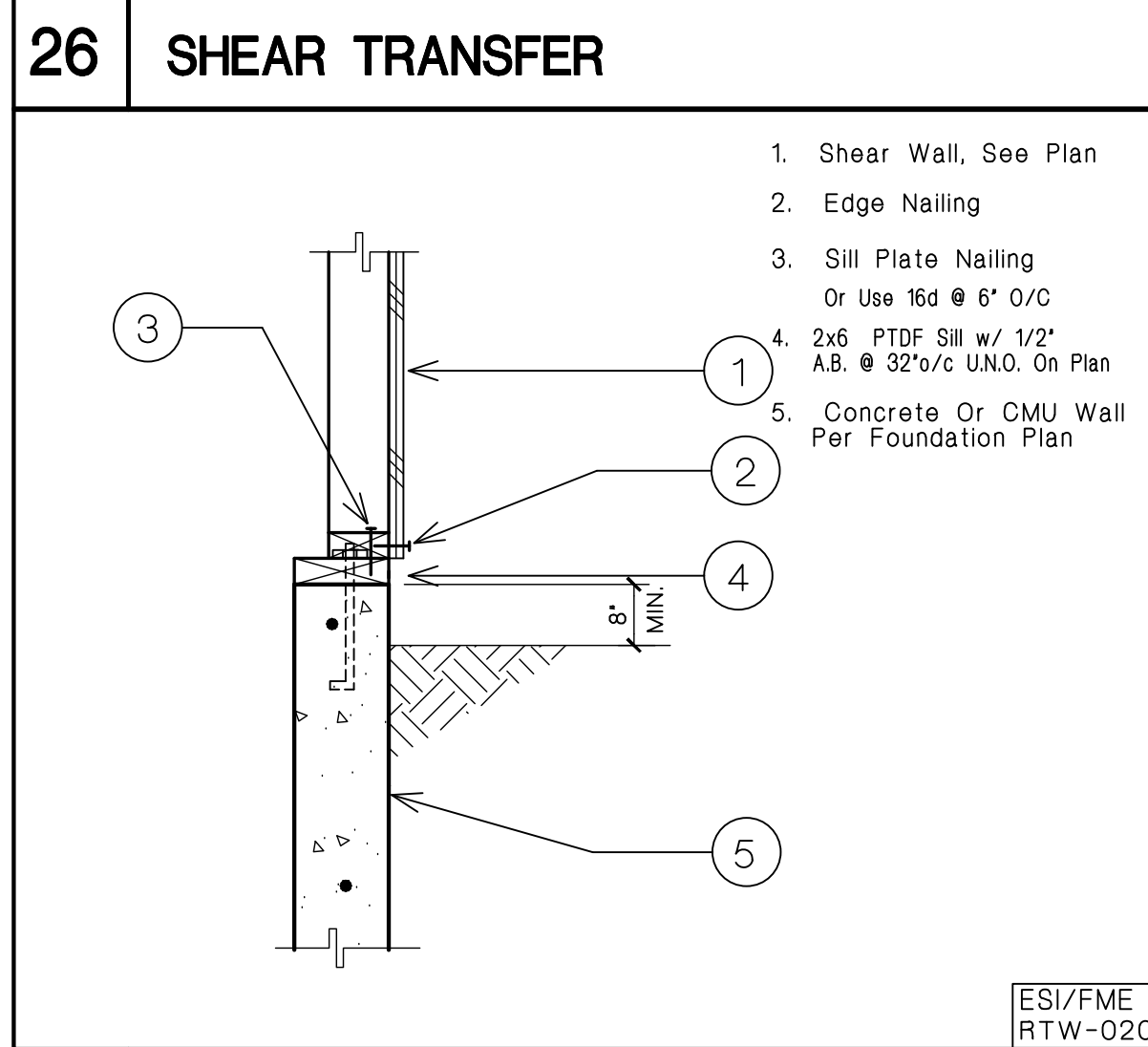
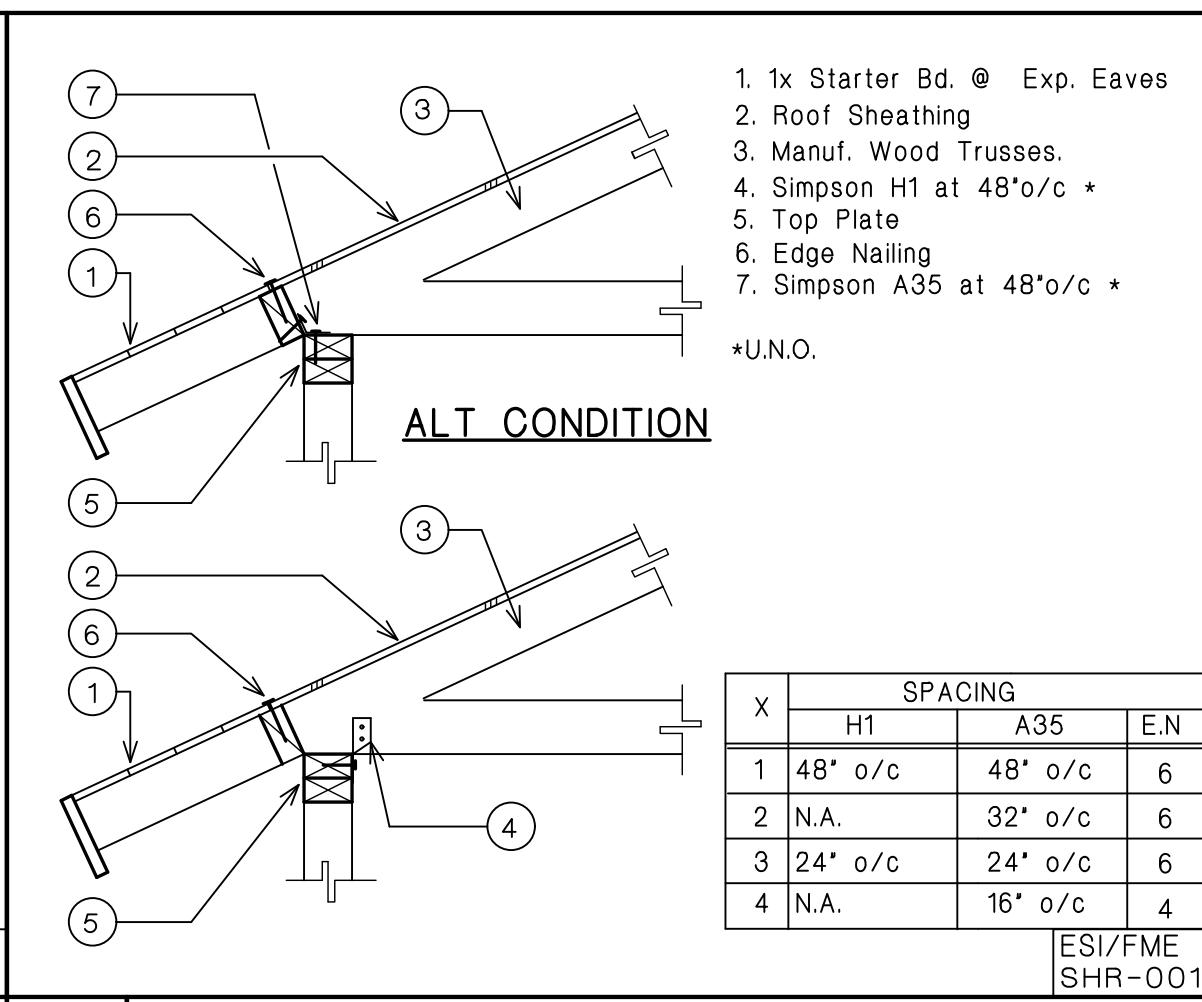
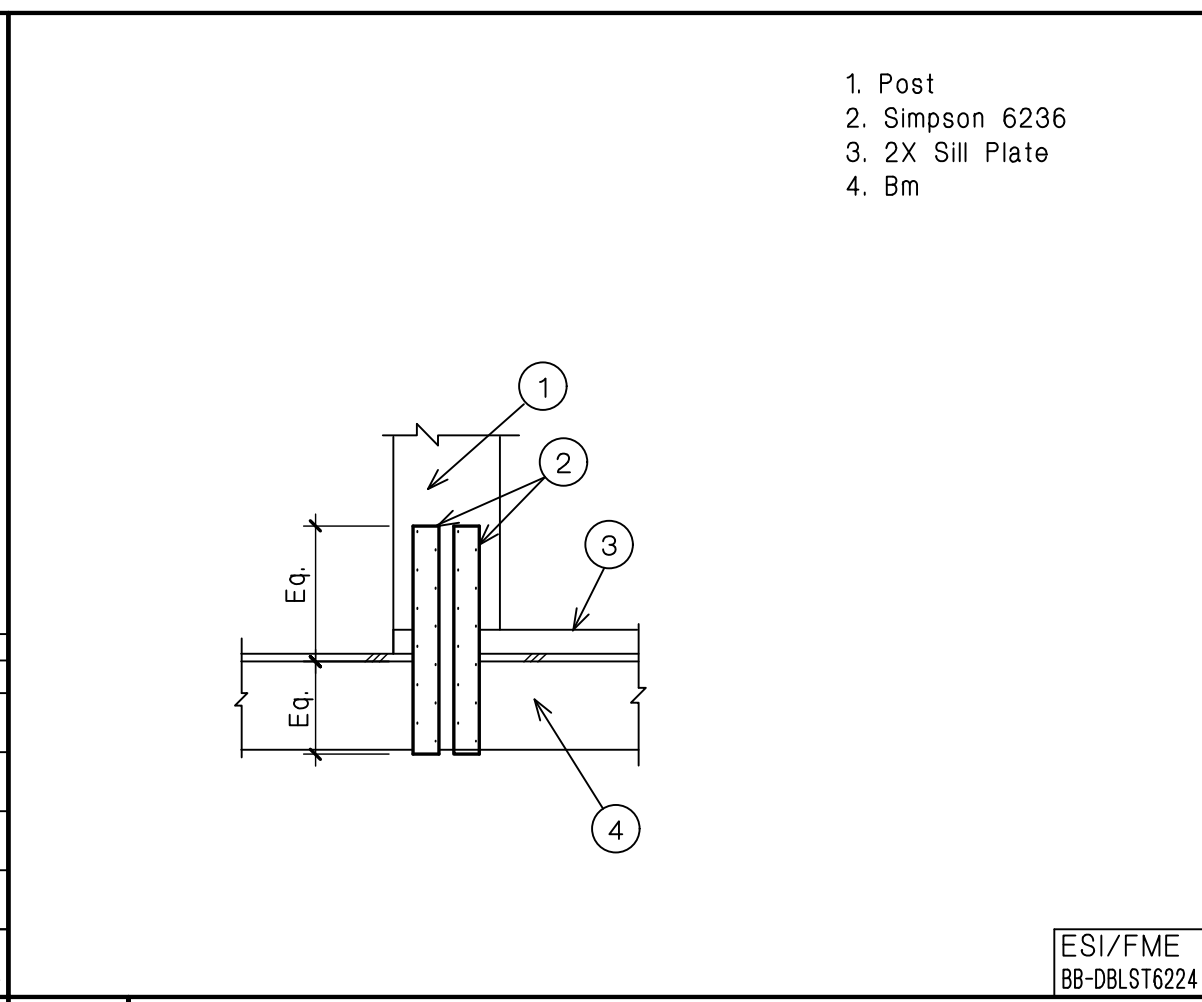
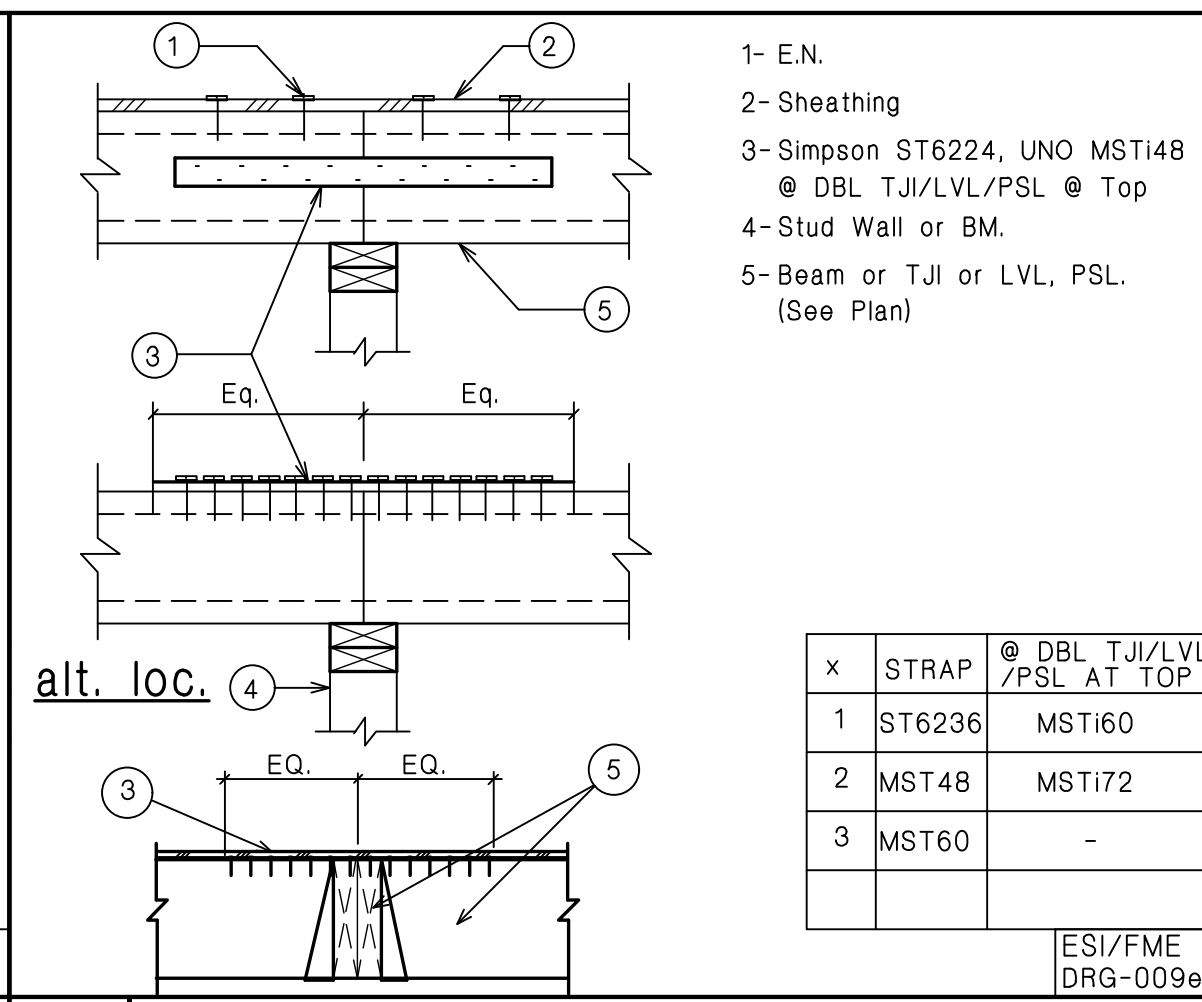
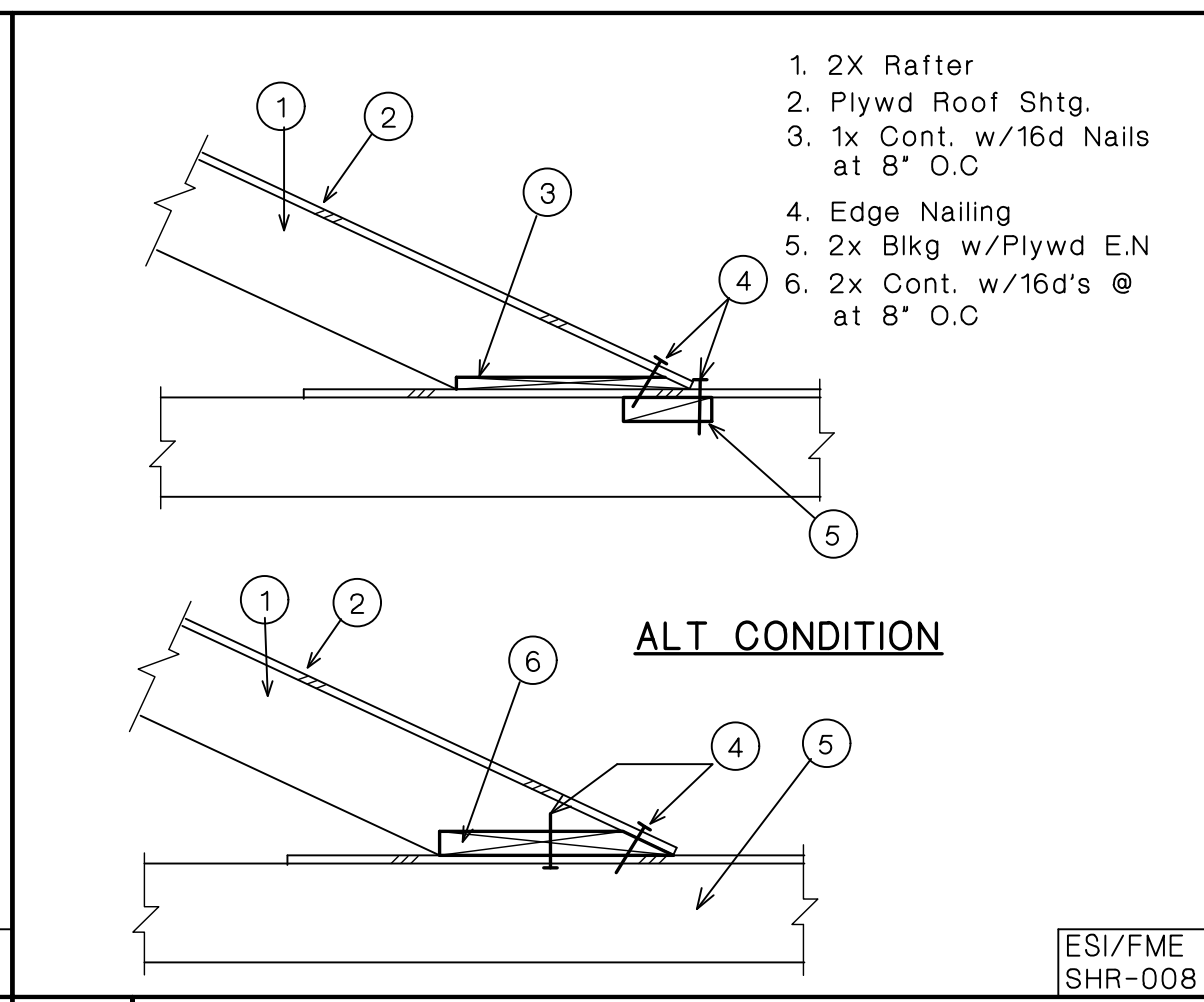
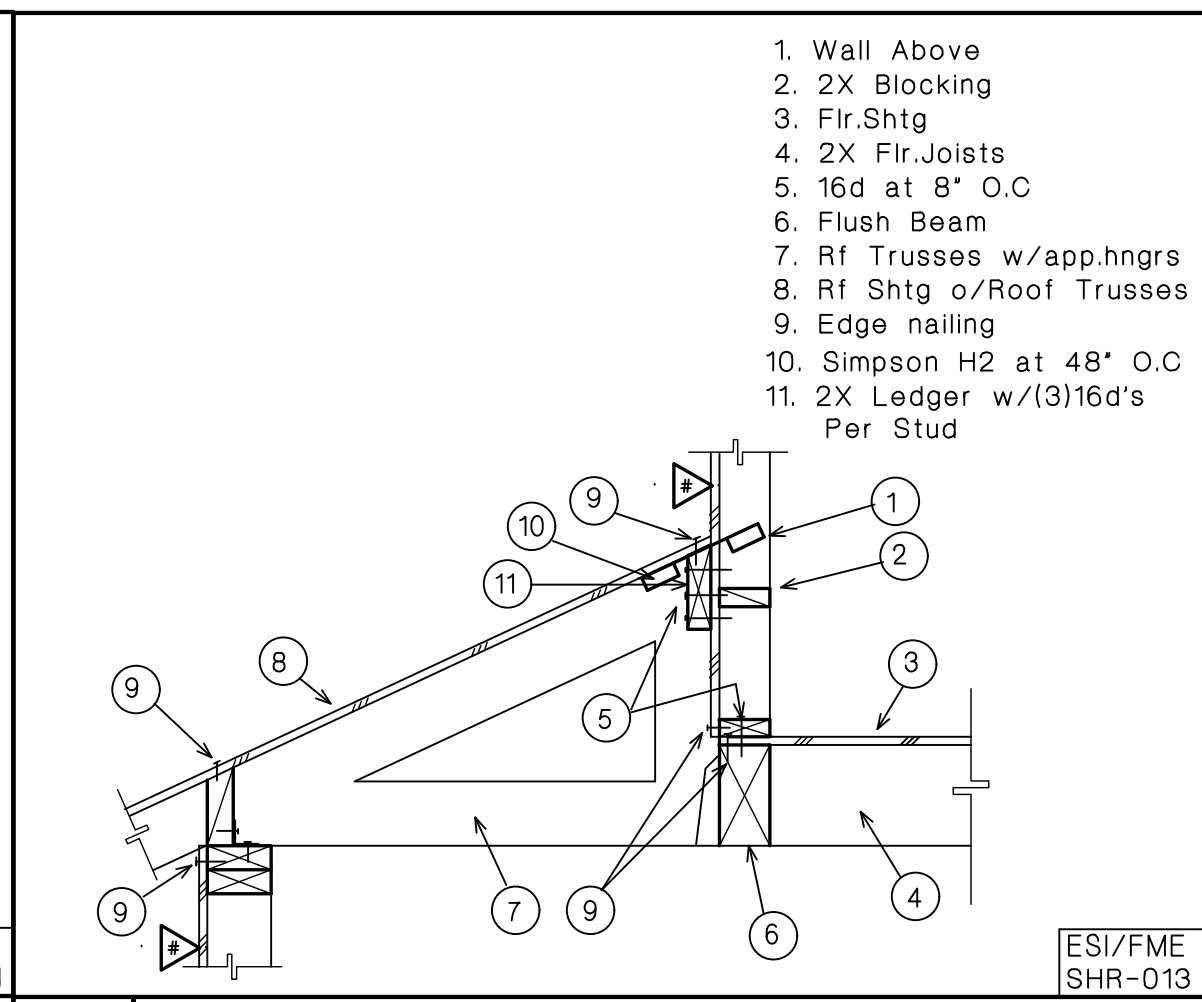
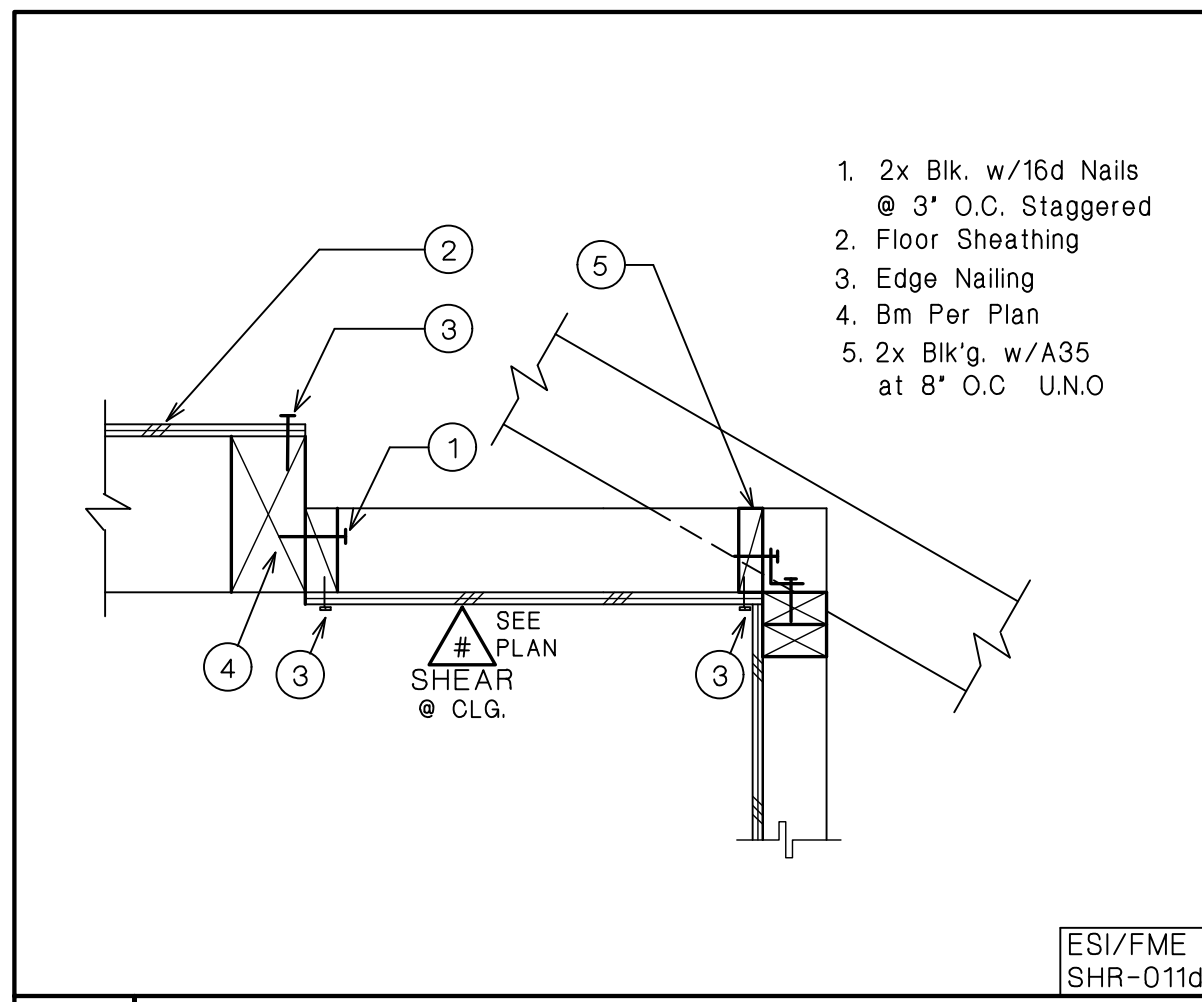
PLOT DATE
12/01/2016

JOB NO.
C169

SHEET

S9-3

SHEET: 4 OF: 6

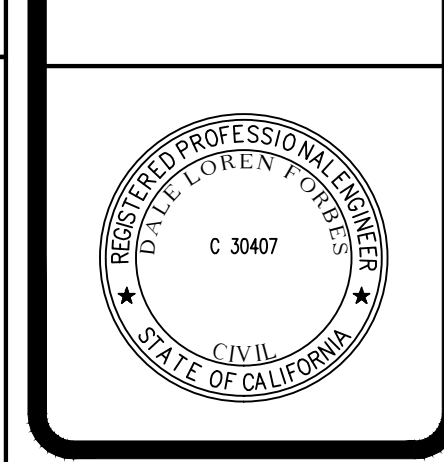


REVISIONS	

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FAX: 774-907-0019

STRUCTURAL DETAILS

"HIGHLAND ESTATES"
LOT 9
SAN MATEO COUNTY, CA.
THE CHAMBERLAIN GROUP - MGA



DRAWN	-
CHECKED	-
PLOT DATE	12/01/2016
JOB NO.	C169
SHEET	SD1

<p>1. SHEAR PANEL WHERE OCCURS (PER PLAN) 2. SLAB / FTG. 3. GRADE BEAM & REBAR (PER PLAN)</p> <p>DEPTH: SEE PLAN WIDTH: SEE PLAN</p> <p>ES1/FME BB - GB</p>	<p>1. 15' SQ. CONC. COL. w/ (6)-#7 VERTICAL & #3 TIES AT 9" o/c 2. 8" CONC. WALL 3. HORIZ. REBAR PER (40) 302 4. BACK FILL 5. #4 @ 16" O.C.</p> <p>PLAN VIEW</p> <p>ES1/FME</p>	<table border="1"> <thead> <tr> <th>HOLDOWN</th> <th>A.B. DIA.</th> <th>CAPACITY</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>POST HEAD</th> <th>DEEPEN FOOTING</th> </tr> </thead> <tbody> <tr> <td>HDU2</td> <td>5/8"</td> <td>3075 lbs</td> <td>19"</td> <td>6"</td> <td>9.5"</td> <td>10.5"</td> <td>4x4</td> <td>As Required To Obtain Anchor Embedment and Concrete Cover</td> </tr> <tr> <td>HTT16/HTT4</td> <td>5/8"</td> <td>4400 lbs</td> <td>19"</td> <td>6"</td> <td>9.5"</td> <td>10.5"</td> <td>4x4</td> <td>Holddown Anchors Must Be Tied In Place Prior To Foundation Inspection.</td> </tr> <tr> <td>HTT22/HTT5</td> <td>5/8"</td> <td>4165 lbs</td> <td>19"</td> <td>6"</td> <td>9.5"</td> <td>10.5"</td> <td>4x4</td> <td></td> </tr> <tr> <td>HDU8</td> <td>7/8"</td> <td>6970 lbs</td> <td>33"</td> <td>9"</td> <td>16.5"</td> <td>16.75"</td> <td>4x4(4x4-2807 lbs)</td> <td></td> </tr> <tr> <td>HDU8</td> <td>7/8"</td> <td>7830 lbs</td> <td>33"</td> <td>9"</td> <td>16.5"</td> <td>16.75"</td> <td>4x4(4x4-2830 lbs)</td> <td></td> </tr> <tr> <td>HDU11</td> <td>1"</td> <td>9535 lbs</td> <td>33"</td> <td>10"</td> <td>16.5"</td> <td>16.75"</td> <td>4x4(4x4-3387 lbs)</td> <td></td> </tr> <tr> <td>HDU14</td> <td>1"</td> <td>14321 lbs</td> <td>33"</td> <td>10"</td> <td>15"</td> <td>15"</td> <td>4x4</td> <td></td> </tr> </tbody> </table> <p>• ALL BOLTS A307 FC Min = 2,500 PSI All Values are ASD</p> <p>ES1/FME 03/23/09</p>	HOLDOWN	A.B. DIA.	CAPACITY	A	B	C	D	POST HEAD	DEEPEN FOOTING	HDU2	5/8"	3075 lbs	19"	6"	9.5"	10.5"	4x4	As Required To Obtain Anchor Embedment and Concrete Cover	HTT16/HTT4	5/8"	4400 lbs	19"	6"	9.5"	10.5"	4x4	Holddown Anchors Must Be Tied In Place Prior To Foundation Inspection.	HTT22/HTT5	5/8"	4165 lbs	19"	6"	9.5"	10.5"	4x4		HDU8	7/8"	6970 lbs	33"	9"	16.5"	16.75"	4x4(4x4-2807 lbs)		HDU8	7/8"	7830 lbs	33"	9"	16.5"	16.75"	4x4(4x4-2830 lbs)		HDU11	1"	9535 lbs	33"	10"	16.5"	16.75"	4x4(4x4-3387 lbs)		HDU14	1"	14321 lbs	33"	10"	15"	15"	4x4		<p>ES1/FME</p>
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NO.	REVISIONS

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JULY 2008

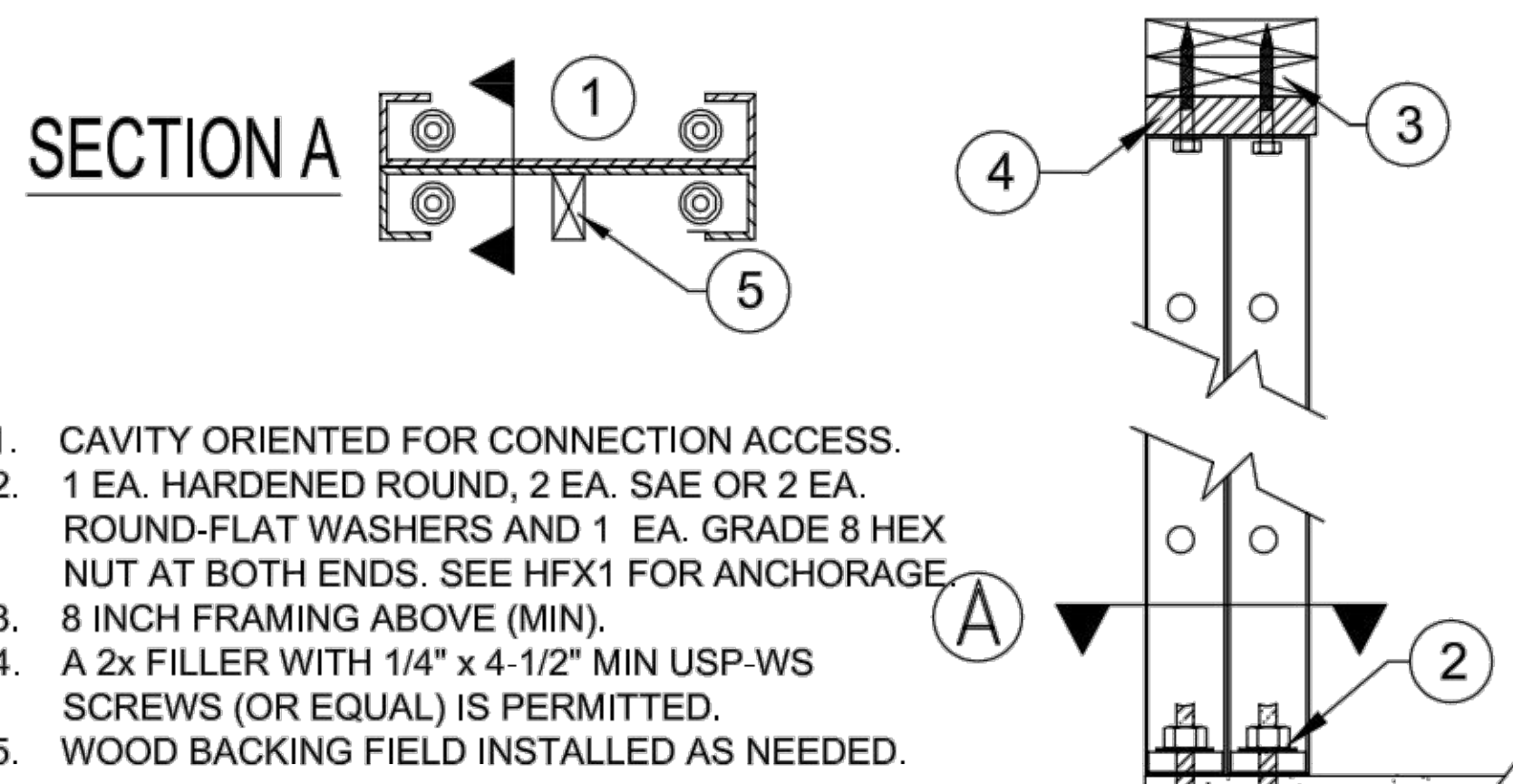
F M ESI

STRUCTURAL DETAILS
LOT 9

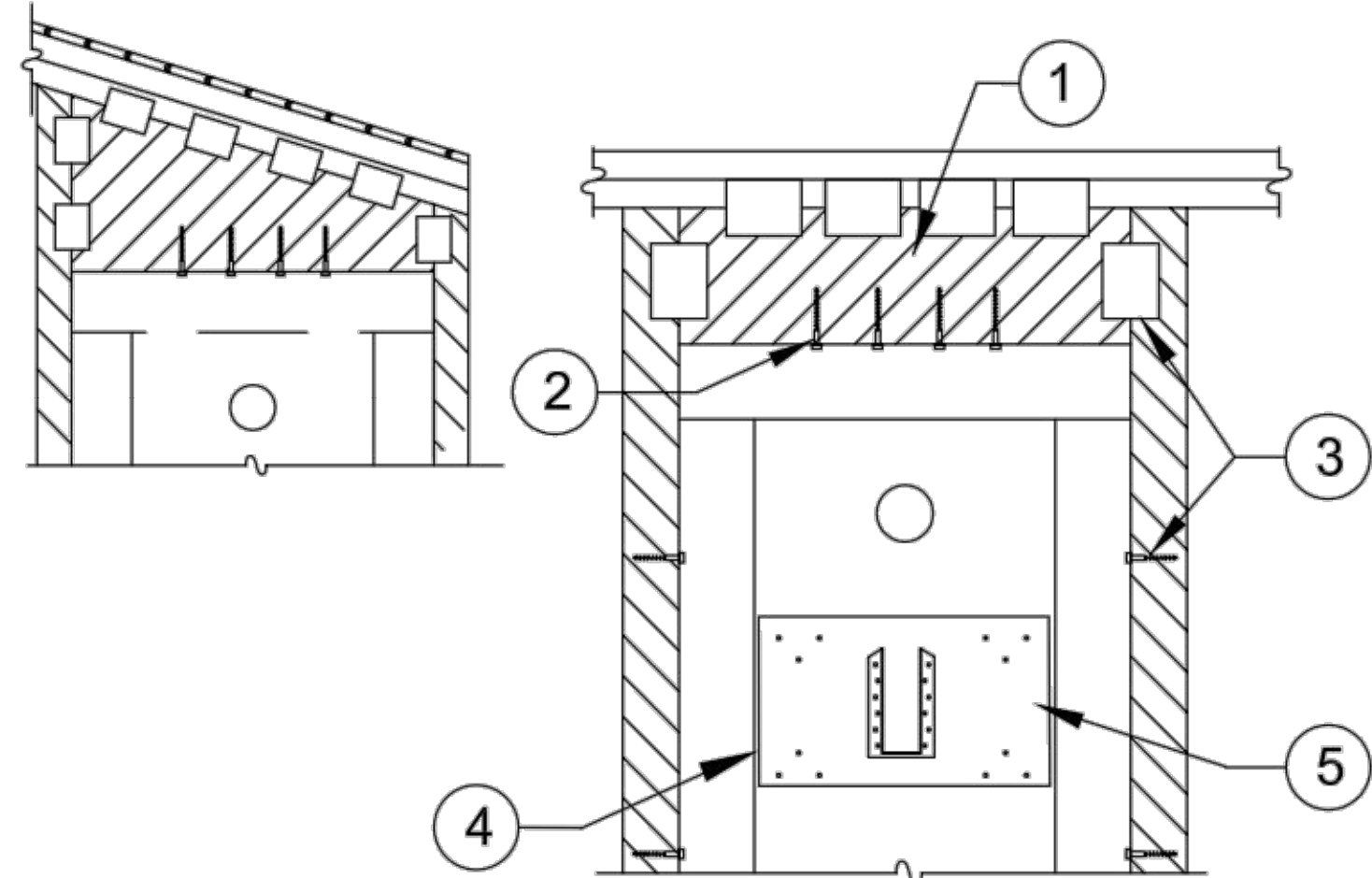
"HIGHLAND ESTATES"
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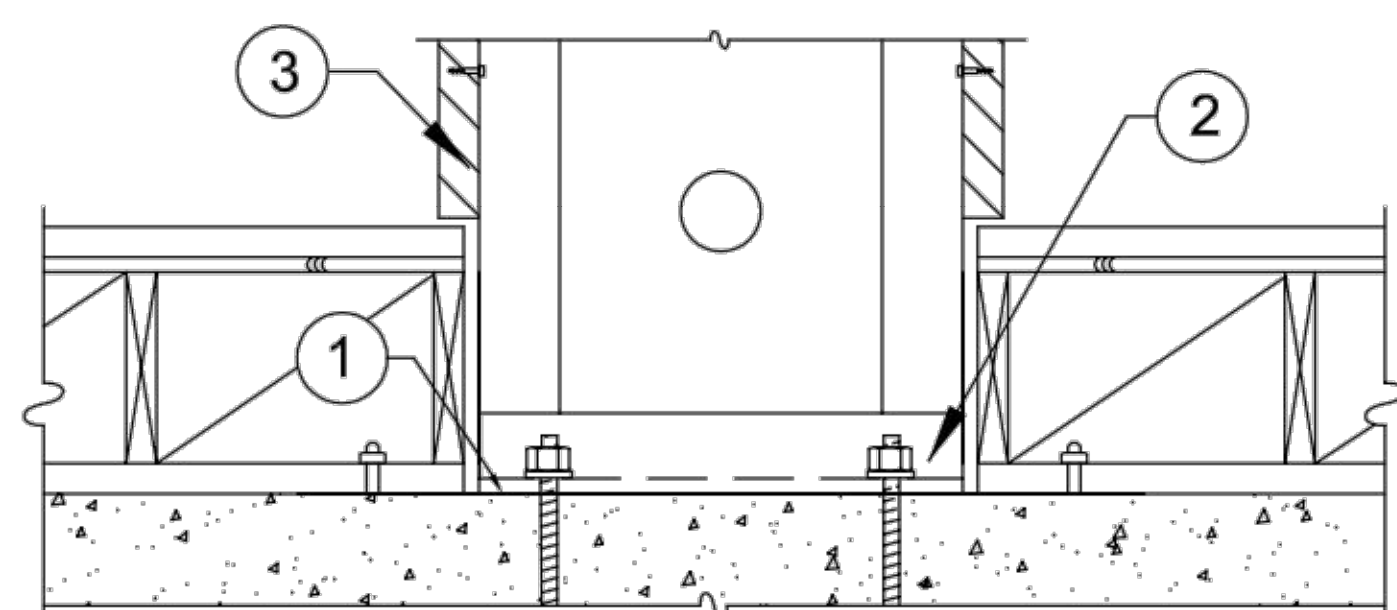
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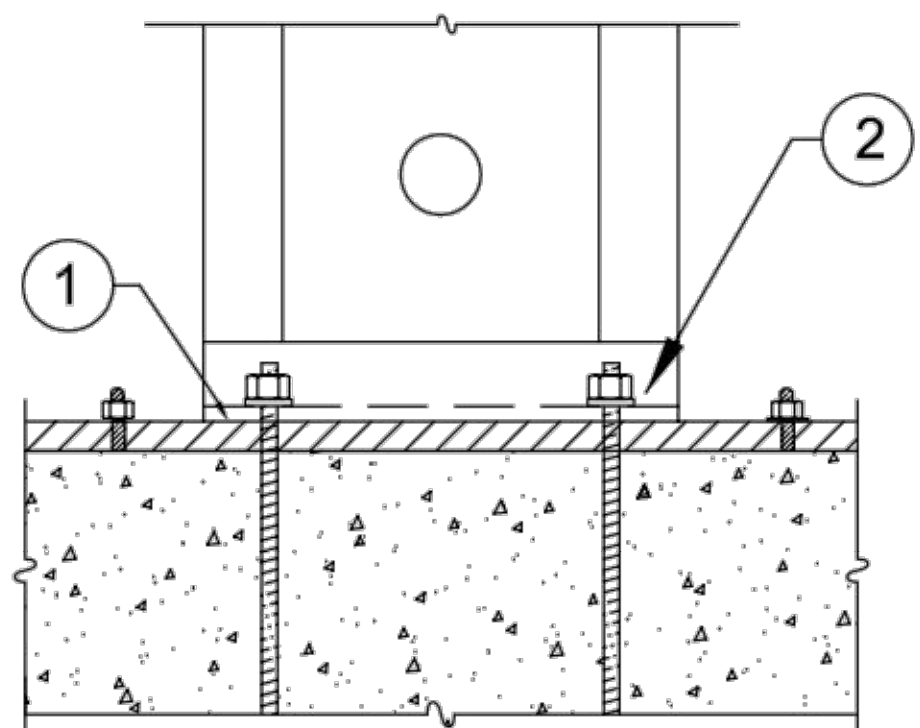
BACK TO BACK INSTALLATION (11)



TOP CONNECTION W/ 4x FILLER (10)



RAISED FLOOR HEAD-OUT (9)

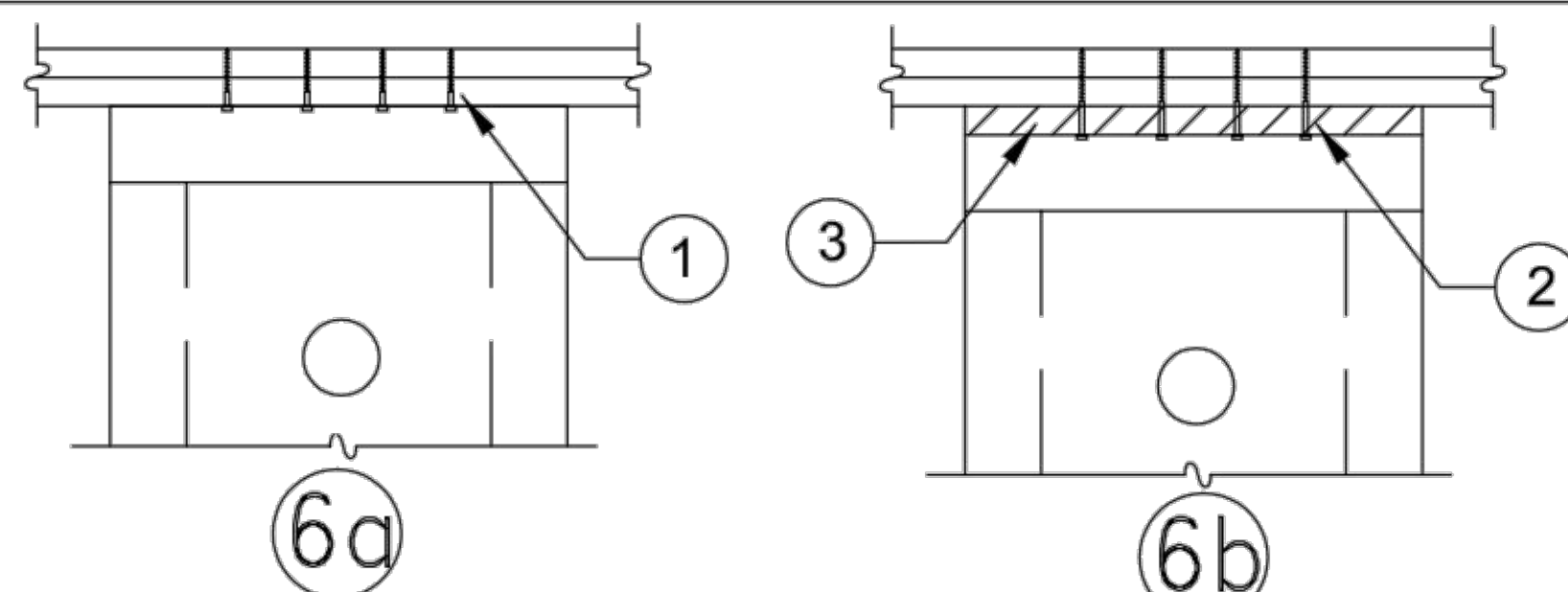


INSTALLATION ON 2x PLATE (8)

NOTES:
 A) OUT OF PLANE FORCES TO BE RESISTED BY OTHER FRAMING MEMBERS PER THE BUILDING DESIGN PROFESSIONAL.
 B) BALLOON WALL APPLICATIONS REQUIRE HIGH STRENGTH ANCHORAGE. SEE FOUNDATION PLAN AND ANCHORAGE TABLES ON SHEET HFX-1

- 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.
- WELDED CONNECTION BY HARDY FRAMES, INC. (NO FIELD CONNECTION REQUIRED).
- A 2x FILLER WITH 1/4" x 4-1/2" MIN USP-WS SCREWS (OR EQUAL) IS PERMITTED.
- WHEN REQUIRED BY THE BUILDING DESIGN PROFESSIONAL ATTACH ADJACENT WOOD MEMBERS TO PANEL WITH 1/4" USP-WS SCREWS (OR EQUAL) THROUGH THE PANEL EDGE INTO THE WOOD MEMBER.

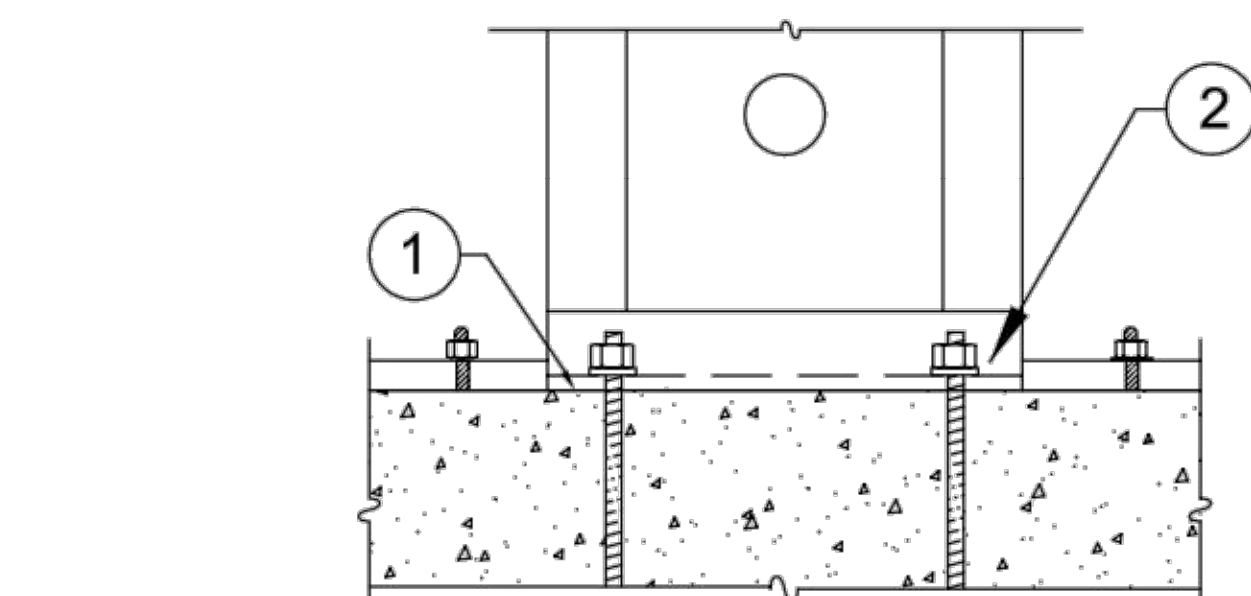
BALLOON WALL INSTALLATION (7)



TOP PLATE CONNECTIONS (6)

- 1/4" x 3" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES
- 1/4" x 4-1/2" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES
- 2x WOOD FILLER.

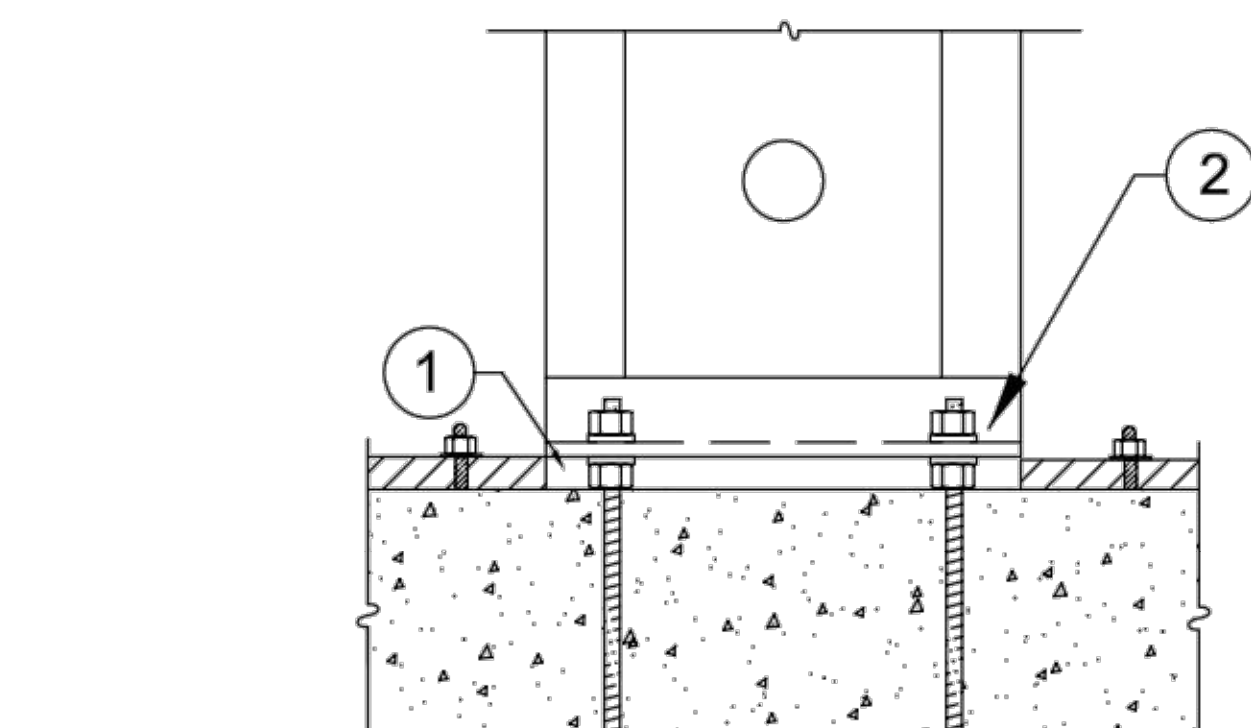
TOP PLATE CONNECTIONS (6)



INSTALLATION ON FOUNDATION (5)

- 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS. SEE HFX1 FOR ANCHORAGE.

INSTALLATION ON FOUNDATION (5)

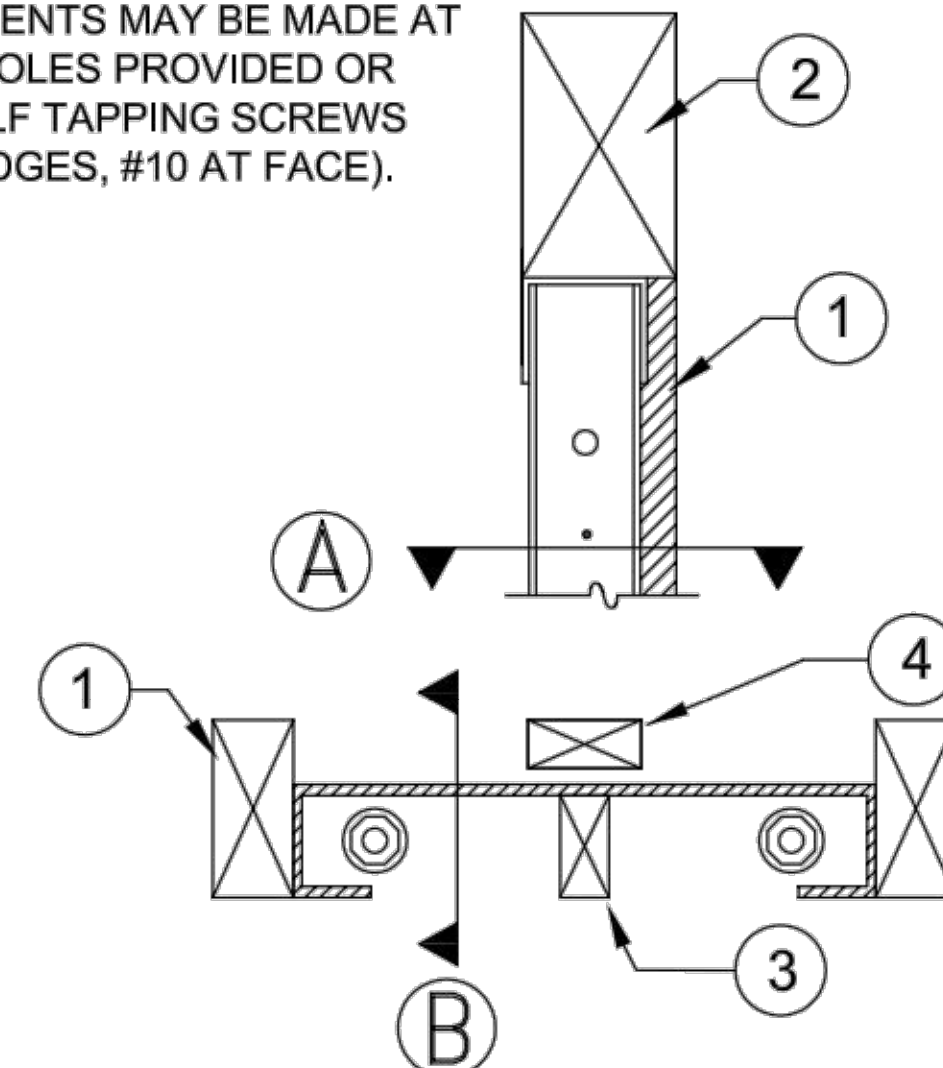


INSTALLATION ON NUTS&WASHERS (4)

- PLUS OR MINUS 1-1/2" GAP TO BE FILLED WITH MIN 5,000 PSI STRENGTH NON-SHRINK GROUT.
- 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.

INSTALLATION ON NUTS&WASHERS (4)

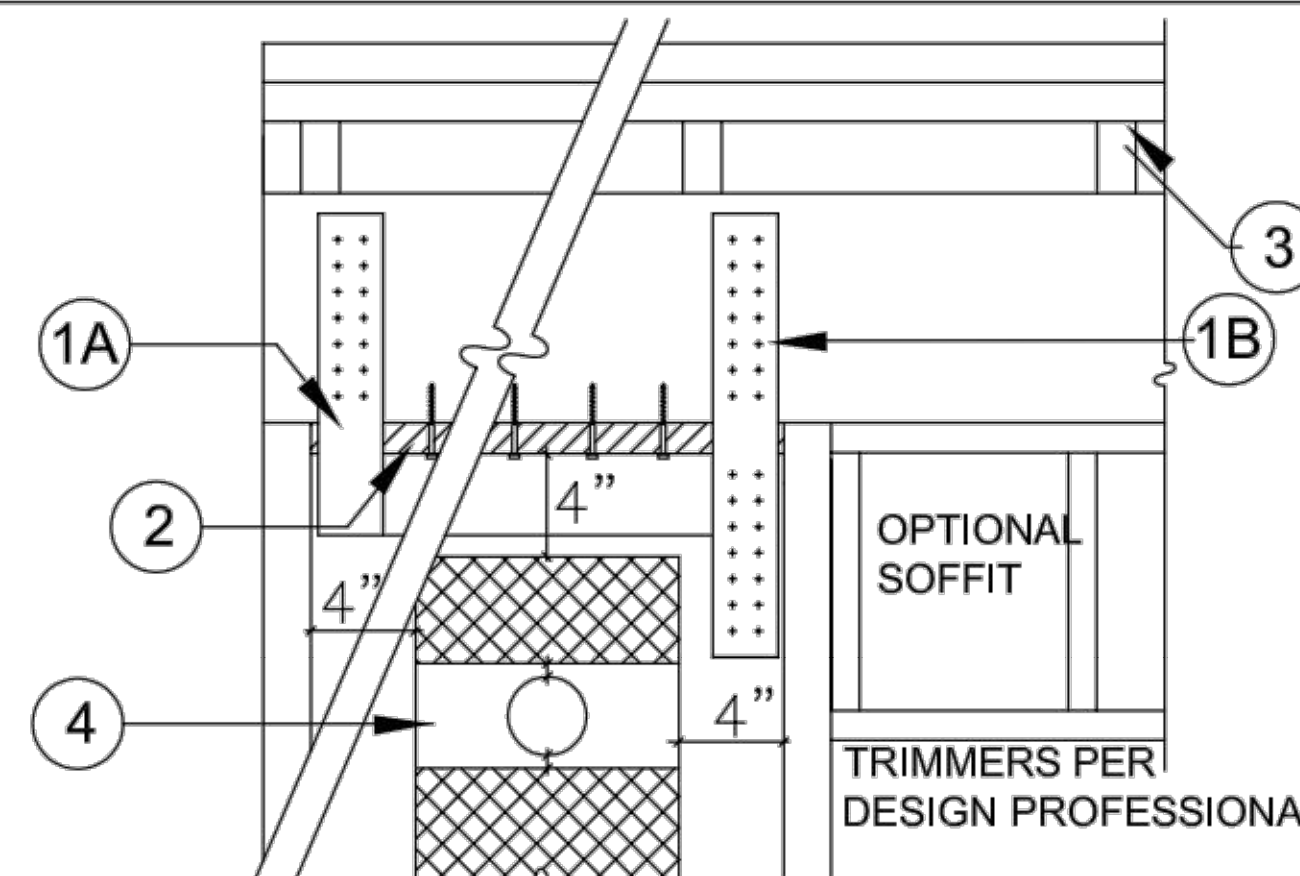
NOTES:
 ATTACHMENTS MAY BE MADE AT SCREW HOLES PROVIDED OR WITH SELF TAPPING SCREWS (#12 AT EDGES, #10 AT FACE).



6x HEADER ABOVE-SECTION (3)

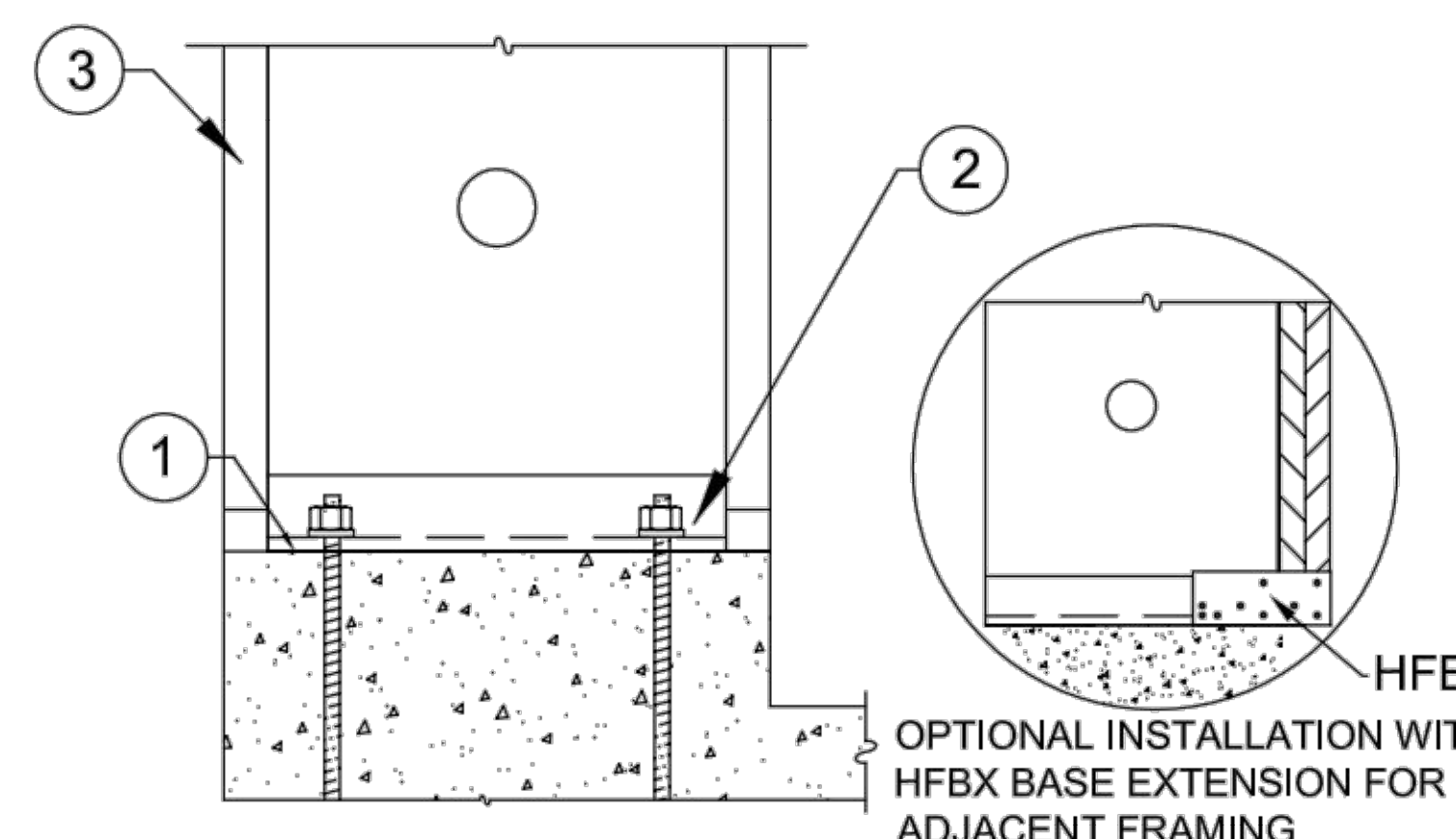
- TRIMMERS PROVIDE FULL BEARING FOR HEADER ABOVE, DESIGN AND CONNECTIONS BY OTHERS.
- 6x HEADER.
- WOOD MEMBERS MAY BE INSERTED VERTICALLY OR HORIZONTALLY IN CAVITY FOR BACKING AS NEEDED.

6x HEADER ABOVE-SECTION (3)



- WELDED STRAPS ARE AVAILABLE FROM MANUFACTURER WHEN REQUIRED BY THE DESIGN PROFESSIONAL.
- WHEN STRAPS ARE FIELD INSTALLED THE DESIGN AND CONNECTION IS BY THE DESIGN PROFESSIONAL. CONNECTION TO PANEL WITH SELF TAPPING SCREWS IS PERMITTED.
- A 2x WOOD FILLER WITH 1/4"x4-1/2" (MIN.) USP "WS" SERIES SCREWS OR EQUAL IS PERMITTED.
- WHEN CRIPPLE STUDS OCCUR, SHEAR TRANSFER DESIGN TO BE PER THE DESIGN PROFESSIONAL.
- THERE IS NO "INSIDE" OR "OUTSIDE" FACE OF PANEL. TO PREVENT THE NEED FOR ADDITIONAL HOLES ORIENT THE PANEL CAVITY TOWARD THE FIXTURE BEING INSTALLED.
- A 1" DIA. HOLE MAY BE ADDED IN THE PANEL FACE WHEN IT IS LOCATED IN THE UPPER HALF OF THE PANEL HEIGHT AND IS 4" MIN. FROM ANY EDGE. FOR PANELS MORE THAN 12" WIDE, ADDITIONAL HOLES MUST ALSO BE 1" MINIMUM ABOVE AND BELOW THE 3" DIA. HOLE PROVIDED.
- FOR HOLES LARGER THAN 1" DIA. OR TO ADD MORE THAN ONE HOLE CONTACT HARDY FRAMES, INC.

TOP CONNECTION TO HEADER (2)



INSTALLATION ON CURB (1)

- 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.
- ADJACENT FRAMING OPTIONAL U.N.O. BY BUILDING DESIGN PROFESSIONAL.

INSTALLATION ON CURB (1)

HFX-SERIES 78 IN. THRU 13 FOOT

Model Number	Net Height (in)	Depth (in)	Hold Down Diameter ¹ (in)	Top Screw Qty ² (ea)	Screw Qty Available at Edges (ea) ³
HFX-12,15,18,21 & 24x78	78	3-1/2	1-1/8	9" Width = 5	4
HFX-9x79.5	79-1/2			12" Width = 6	
HFX-12,15,18,21 & 24x8	92-1/4			15" Width = 8	
HFX-9x8	93-3/4			18" Width = 10	
HFX-12,15,18,21 & 24x9	104-1/4			21" Width = 12	
HFX-12,15,18,21 & 24x10	116-1/4			24" Width = 14	
HFX-15,18,21 & 24x11	128-1/4			5	
HFX-15,18,21 & 24x12	140-1/4			6	
HFX-15,18,21 & 24x13	152-1/4				

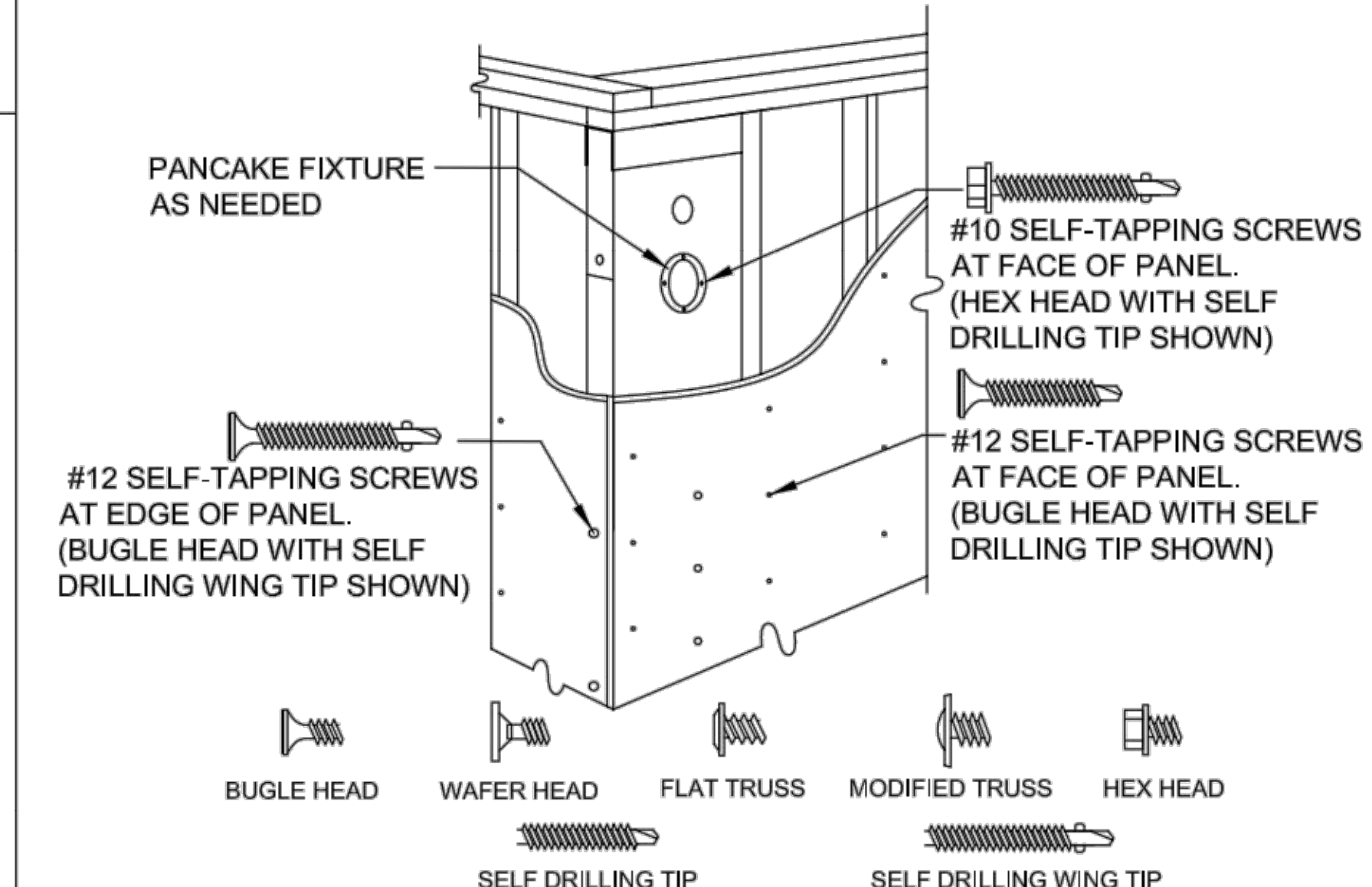
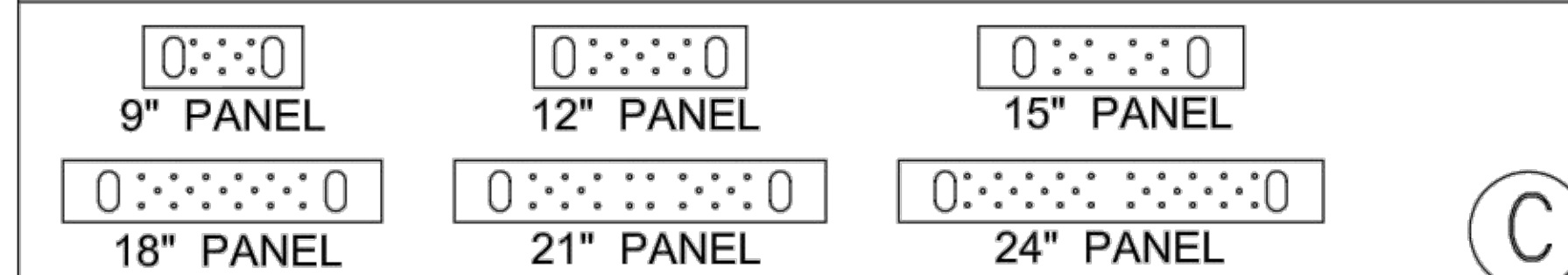
BALLOON PANELS 14 FEET THRU 20 FEET

Model Number	Net Height (in)	Depth (in)	Hold Down Diameter ¹ (in)	Top Screw Qty ² (ea)	Screw Qty Available at Edges (ea) ³
HFX-15,18,21 & 24x14	164-1/4	3-1/2	1-1/8	15" Width = 8	6
HFX-15,18,21 & 24x15	176-1/4			18" Width = 10	
HFX-15,18,21 & 24x16	188-1/4			21" Width = 12	
HFX-15,18,21 & 24x17	200-1/4			24" Width = 14	
HFX-15,18,21 & 24x18	212-1/4				
HFX-15,18,21 & 24x19	224-1/4				
HFX-15,18,21 & 24x20	236-1/4			7	
				8	

- Hold down bolts connect to the Panel base with (1 ea) Hardened Round, (2 ea) Round-Flat or (2 ea) SAE Washers below (1 ea) Grade 8 Hex Nut on each rod or as specified by the Building Design Professional.
- 1/4" diameter USP-WS Series screws (or equal). Length is 3" (minimum) when attached directly to the collector and 4-1/2" (minimum) when installing a 2x filler above the Panel.
- Adjacent framing with 1/4" diameter screws is required at the edges when installing a 4X filler above or when specified by the Design Professional.

INSTALLATION INSTRUCTIONS

- When installing directly on concrete, place Panel over bolts and connect with (1 ea) Hardened Round, (2 ea) Round-Flat or (2 ea) SAE Washers below (1 ea) Grade 8 or 2H Heavy Hex Nut. Secure with a deep socket (recommended) until "Snug Tight".
- If bottom connection is not detailed on plans, confirm with Design Professional before installing on Nuts & Washers or on a Mudsill.
- Use 1/4"x4-1/2" USP-WS Series screws (or equal) at top connections with a 2x filler. If the top of Panel is in direct contact with the collector above (top plates, header, beam, etc.) use 1/4 x 3" (minimum)
- For installations with a 4x filler above 1/4" diameter screws are required at the Panel edges to brace for the out-of-plane hinge or when they are specified by the Design Professional.



- NOTES:**
 1) SURFACE FINISHES, CONNECTORS AND FIXTURES ARE ATTACHED TO THE PANEL FACE WITH # 10 SELF-TAPPING SCREWS SPACED NO LESS THAN 2-1/4" OC.
 2) ATTACHMENTS TO THE PANEL EDGES ARE MADE WITH # 12 SELF-TAPPING SCREWS.
 3) STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY THE DESIGN PROFESSIONAL.
 4) STRUCTURAL HARDWARE USED TO TRANSFER LOADS SHOULD NOT EXCEED 12 GAGE.

REVISIONS DATE

FRAMING DETAILS - HFX PANELS

THIS DETAIL SHEET IS NOT PROPRIETARY AND IS NOT REQUIRED FOR PLAN SUBMITTAL WITH HARDY FRAME PRODUCTS

HARDY FRAME
 SHEAR WALL SYSTEM
 1732 PALMA DRIVE, SUITE 200, VENTURA, CA 93003
 TELEPHONE: 800 754-3030 / www.hardyframe.com



DATE:
1-1-2016

HFX2