

CONCRETE TENSION LAP SPLICE LENGTH SCHEDULE													
BAR SIZE	LAP CLASS	3000 PSI NORMAL-WEIGHT CONCRETE				4000 PSI NORMAL-WEIGHT CONCRETE				5000 PSI NORMAL-WEIGHT CONCRETE			
		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22"	32"	17"	25"	19"	28"	15"	22"	17"	25"	13"	19"
	B	28"	42"	22"	32"	24"	36"	19"	28"	22"	33"	17"	25"
#4	A	29"	43"	22"	33"	25"	37"	19"	29"	22"	33"	17"	26"
	B	37"	56"	29"	43"	32"	48"	25"	37"	29"	43"	22"	33"
#5	A	36"	54"	28"	41"	31"	47"	24"	36"	28"	42"	22"	32"
	B	47"	70"	36"	54"	40"	60"	31"	47"	36"	54"	28"	42"
#6	A	43"	64"	33"	50"	37"	56"	29"	43"	33"	50"	26"	38"
	B	56"	84"	43"	64"	48"	72"	37"	56"	43"	65"	33"	50"
#7	A	63"	94"	48"	72"	54"	81"	42"	63"	49"	73"	37"	56"
	B	81"	122"	63"	94"	70"	106"	54"	81"	63"	94"	49"	73"
#8	A	72"	107"	55"	82"	62"	93"	48"	71"	55"	83"	43"	64"
	B	93"	139"	72"	107"	80"	121"	62"	93"	72"	108"	55"	83"
#9	A	81"	121"	62"	93"	70"	105"	54"	81"	63"	94"	48"	72"
	B	105"	157"	81"	121"	91"	136"	70"	105"	81"	122"	63"	94"
#10	A	91"	136"	70"	105"	79"	118"	61"	91"	70"	105"	54"	81"
	B	118"	177"	91"	136"	102"	153"	79"	118"	91"	137"	70"	105"
#11	A	101"	151"	78"	116"	87"	131"	67"	101"	78"	117"	60"	90"
	B	131"	196"	101"	151"	113"	170"	87"	131"	101"	152"	78"	117"
#14	N/A	121"	181"	93"	139"	105"	157"	81"	121"	94"	140"	72"	108"
#18	N/A	161"	241"	124"	186"	139"	209"	107"	161"	125"	187"	96"	144"

- NOTES:
- CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS:
 - BEAMS AND COLUMNS
CASE 1: CONCRETE COVER AT LEAST 1.0 BAR DIAMETERS AND C.-C. SPACING AT LEAST 2.0 BAR DIAMETERS
CASE 2: CONCRETE COVER LESS THAN 1.0 BAR DIAMETERS OR C.-C. SPACING LESS THAN 2.0 BAR DIAMETERS.
 - ALL OTHER MEMBERS
CASE 1: CONCRETE COVER AT LEAST 1.0 BAR DIAMETERS AND C.-C. SPACING AT LEAST 3.0 BAR DIAMETERS
CASE 2: CONCRETE COVER LESS THAN 1.0 BAR DIAMETERS OR C.-C. SPACING LESS THAN 3.0 BAR DIAMETERS.
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 - FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.33.

WOOD SHEAR WALL SCHEDULE					
MARK	SHEATHING	SHEATHING ATTACHMENT (NOTE 1)	ANCHORS ALONG BOT PLATES AT BASE	ANCHORS ALONG TOP/BOT ELEVATED PLATES	WALL FRAMING
TYP EXT	ONE SIDE - 32/16 APA RATED EXPOSURE 1 SHEATHING (15/32" MIN. THICKNESS)	8d COMMON NAILS 6" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS	1/2" DIA. SIMPSON TITEN HD SCREW ANCHORS @ 48" (6" EMBED.)	16d COMMON NAILS 8" o/c STAGGERED	LB1
SW1	ONE SIDE - 32/16 APA RATED EXPOSURE 1 SHEATHING (15/32" MIN. THICKNESS)	8d COMMON NAILS 6" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS	1/2" DIA. SIMPSON TITEN HD SCREW ANCHORS @ 48" (6" EMBED.)	16d COMMON NAILS 8" o/c STAGGERED	LB1
SW2	ONE SIDE - 32/16 APA RATED EXPOSURE 1 SHEATHING (15/32" MIN. THICKNESS)	8d COMMON NAILS 4" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS	1/2" DIA. SIMPSON TITEN HD SCREW ANCHORS @ 48" (6" EMBED.)	16d COMMON NAILS 4" o/c STAGGERED	LB1
SW3	ONE SIDE - 32/16 APA RATED EXPOSURE 1 STRUCTURAL 1 SHEATHING (15/32" MIN. THICK.)	8d COMMON NAILS 6" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS	1/2" DIA. SIMPSON TITEN HD SCREW ANCHORS @ 48" (6" EMBED.)	16d COMMON NAILS 4" o/c STAGGERED	LB1
SW4	ONE SIDE - 32/16 APA RATED EXPOSURE 1 STRUCTURAL 1 SHEATHING (15/32" MIN. THICK.)	8d COMMON NAILS 4" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS	1/2" DIA. SIMPSON TITEN HD SCREW ANCHORS @ 32" (6" EMBED.)	1/2" DIA. THROUGH BOLT 12" o/c	LB1
SW5	TWO SIDES - 32/16 APA RATED EXPOSURE 1 STRUCTURAL 1 SHEATHING (15/32" MIN. THICK.)	8d COMMON NAILS 4" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS	1/2" DIA. SIMPSON TITEN HD SCREW ANCHORS @ 16" (6" EMBED.)	1/2" DIA. THROUGH BOLT 8" o/c	LB1

- SCHEDULE NOTES:
- SEE x/5xxx FOR TYPICAL PANEL LAYOUT AND ATTACHMENT REQUIREMENTS
 - SEE x/5xxx FOR HOLDOWN INFORMATION
 - SEE x/5xxx FOR WALL FRAMING INFORMATION

SHEARWALL ANCHOR TIEDOWN SYSTEM SCHEDULE									
MARK	CONNECTORS				STUD QUANTITY	ANCHOR BOLT DIAMETER	ANCHOR BOLT EMBEDMENT (SEE NOTE 3)	REQUIRED TOTAL TENS. CAPACITY	REQUIRED PLATE TENS. CAPACITY
	ROD	BEARING PLATE	PLATE NUT	COUPLER					
ATS1	(1) SIMPSON ATS-SR7	(1) SIMPSON ATS-BP7-5x5.5	(1) SIMPSON ATS-IN7KT	(1) SIMPSON ATS-CTUD77	(3) 2x6	7/8" DIA.	12" FOR C.I.P. ANCHOR	11.43 KIPS	11.43 KIPS
ATS2	(1) SIMPSON ATS-SR7H	(1) SIMPSON ATS-BP7-5x5.5	(1) SIMPSON ATS-IN7KT	(1) SIMPSON ATS-CTUD77	(3) 2x6	7/8" DIA.	12" FOR C.I.P. ANCHOR	16.20 KIPS	11.43 KIPS
ATS3	(1) SIMPSON ATS-SR7H	(1) SIMPSON ATS-BP7-5x5.5	(1) SIMPSON ATS-IN7KT	(1) SIMPSON ATS-CTUD77	(2) 3-2x6	7/8" DIA. (GR. 55)	12" FOR C.I.P. ANCHOR	21.02 KIPS	11.43 KIPS

- SCHEDULE NOTES:
- PROVIDE SIMPSON SET-XP OR APPROVED EQUIVALENT ADHESIVE FOR CRACKED CONCRETE.
 - INSTALL SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE SIMPSON ATS ISOLATOR NUT AT ALL BEARING PLATES.

SHEARWALL HOLDOWN SCHEDULE						
MARK	HOLDOWN TYPE	STUD QUANTITY	STUD GROUP CONNECTION	ANCHOR BOLT DIAMETER	ANCHOR BOLT EMBEDMENT (SEE NOTE 3)	REQUIRED TENS. CAPACITY
HD1	(1) SIMPSON DTT22-SDS2.5	(2) 2x6	(8) SDS 1/4"x2-1/2"	1/2" DIA.	6" FOR C.I.P. ANCHOR 6" FOR ADHESIVE ANCHOR	2.105 KIP
HD2	(1) SIMPSON HDU4-SDS2.5	(2) 2x6	(10) SDS 1/4"x2-1/2"	5/8" DIA.	8" FOR C.I.P. ANCHOR 6" FOR ADHESIVE ANCHOR	3.285 KIP
HD3	(1) SIMPSON HDU5-SDS2.5	(2) 2x6	(14) SDS 1/4"x2-1/2"	5/8" DIA.	8" FOR C.I.P. ANCHOR 6" FOR ADHESIVE ANCHOR	4.065 KIP
HD4	(1) SIMPSON HDU8-SDS2.5	(3) 2x6	(20) SDS 1/4"x2-1/2"	7/8" DIA.	9" FOR C.I.P. ANCHOR	5.665 KIP
HD5	(1) SIMPSON HDU11-SDS2.5	(3) 2x6	(30) SDS 1/4"x2-1/2"	1" DIA.	12" FOR C.I.P. ANCHOR	6.865 KIP
HD6	(1) SIMPSON HDU14-SDS2.5	(4) 2x6	(36) SDS 1/4"x2-1/2"	1" DIA.	12" FOR C.I.P. ANCHOR	10.350 KIP
HD7	(1) SIMPSON HD12	(4) 2x6	(4) 1" DIA. A307 BOLTS	1-1/8" DIA.	16" FOR C.I.P. ANCHOR	13.120 KIP

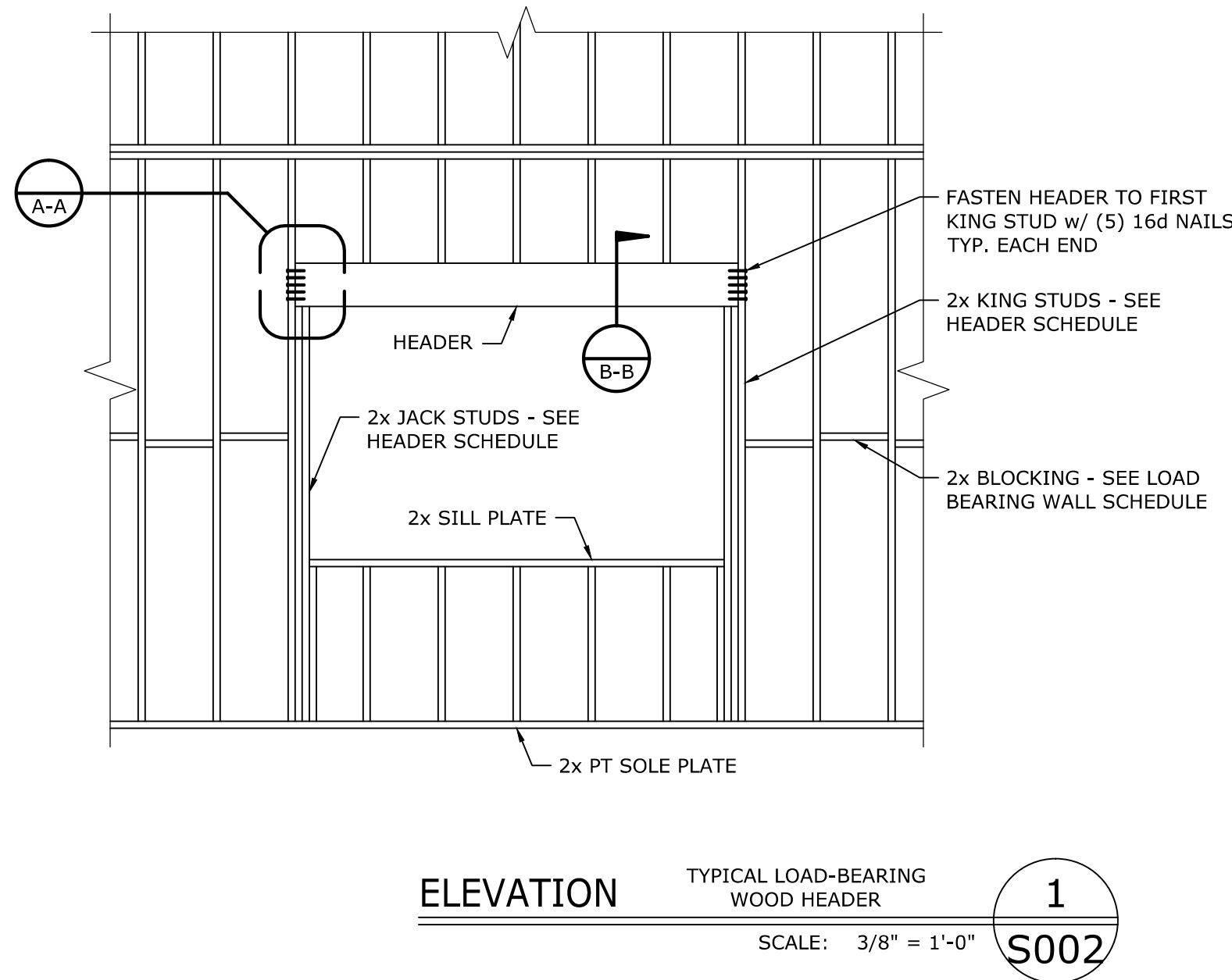
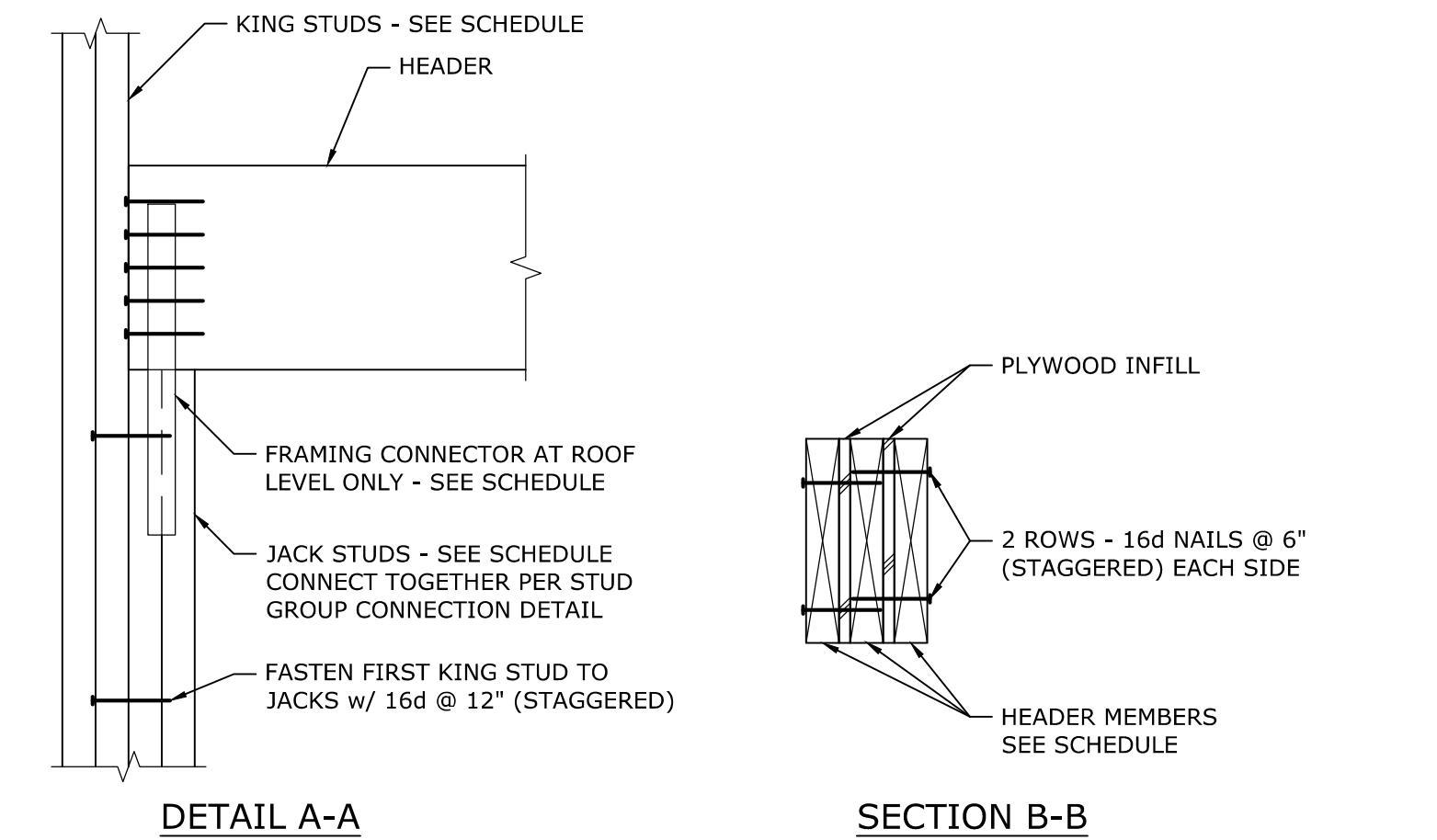
- SCHEDULE NOTES:
- PROVIDE SIMPSON SET-XP OR APPROVED EQUIVALENT ADHESIVE FOR CRACKED CONCRETE.

WOOD FRAMING CONNECTOR SCHEDULE		
CONDITION	CONNECTOR	NOTES
TRUSS	(1) SIMPSON H2.5A	
GIRDER TRUSS	(2) SIMPSON H2.5A	
ROOF TRUSS TO GIRDER TRUSS	(1) SIMPSON THASR/L29 AT BOT TRUSS (3) SIMPSON A35 AT TOP	
FLOOR TRUSS TO GIRDER TRUSS	(1) SIMPSON THA422	
ROOF JOISTS	(1) SIMPSON LUS28	
TIMBER COLUMNS	SEE TIMBER COLUMN SCHEDULE	
TYPICAL STUDS	(1) SIMPSON RSP4 TO DOUBLE TOP PLATES (1) SIMPSON RSP4 TO SOLE PLATE	

- NOTES:
- HURRICANE CONNECTORS ARE REQUIRED AT EACH END OF TRUSSES AND RAFTERS. CONNECTORS ARE LISTED FOR ONE END ONLY. FOR EXAMPLE A JACK TRUSS WILL REQUIRE (1) SIMPSON H2.5A CONNECTOR AT THE EXTERIOR END PLATES AND (1) SIMPSON SUR26 OR SUL26 AND (1) SIMPSON A35 AT THE INTERIOR END GIRDER TRUSS.
 - INSTALL ALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - SEE TRUSS MANUFACTURER'S INSTRUCTIONS FOR UPLIFT CONNECTION FOR ALL OVERBUILT ROOF TRUSSES.
 - CONNECTORS AT STUDS AND HEADERS ARE NOT REQUIRED FOR WALLS BELOW LEVEL 3.

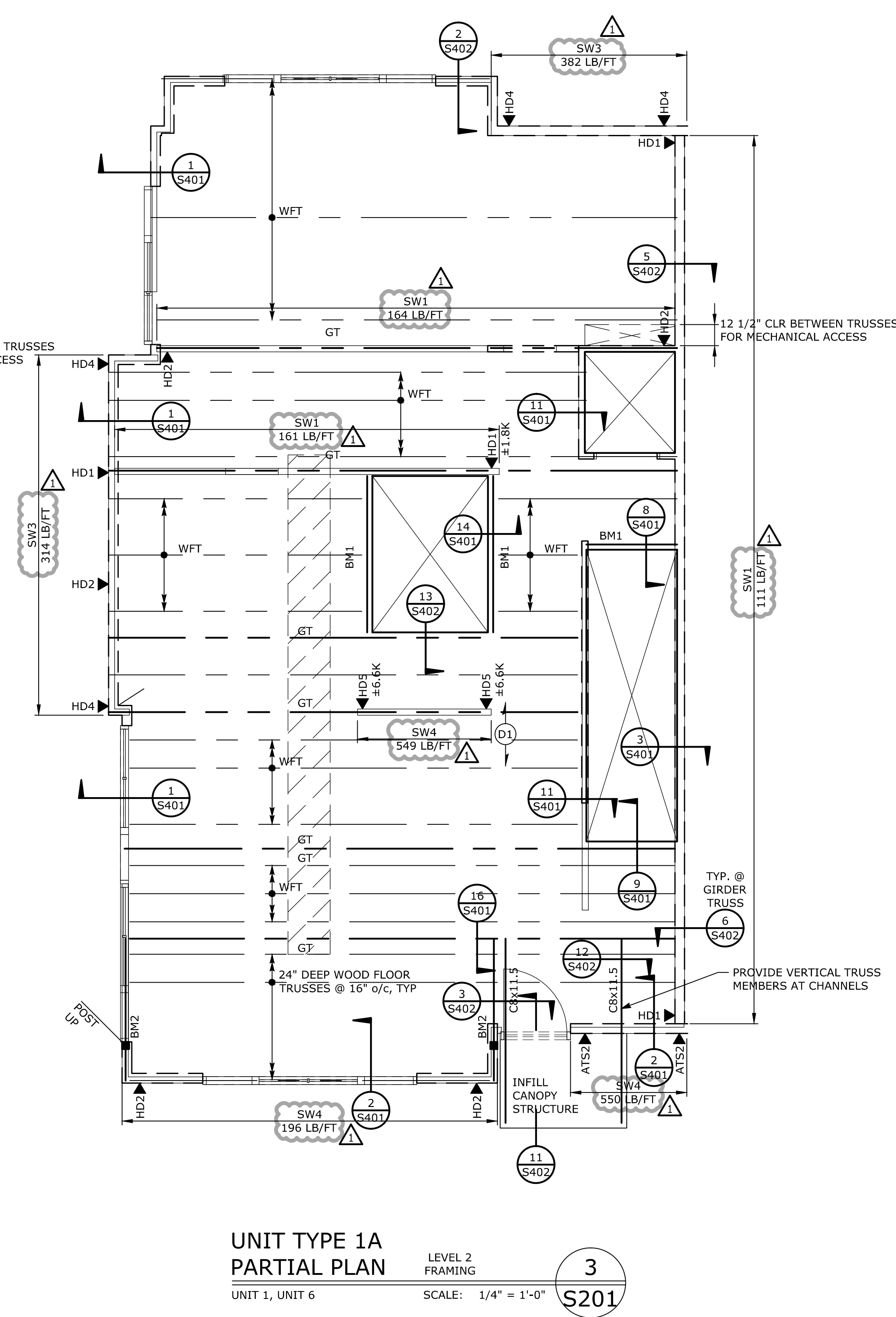
WOOD BEAM SCHEDULE			
BEAM MARK	MEMBER SIZE	CONNECTION HARDWARE	SUPPORT
B1	(2) 1-3/4"x18" LVL	(2) SIMPSON H2.5A	SEE PLAN & SCHEDULE
B2	(3) 1-3/4"x18" LVL	(2) SIMPSON H2.5A	SEE PLAN & SCHEDULE

- SCHEDULE NOTES:
- PROVIDE P.T. LUMBER FOR ALL EXTERIOR CONDITIONS.

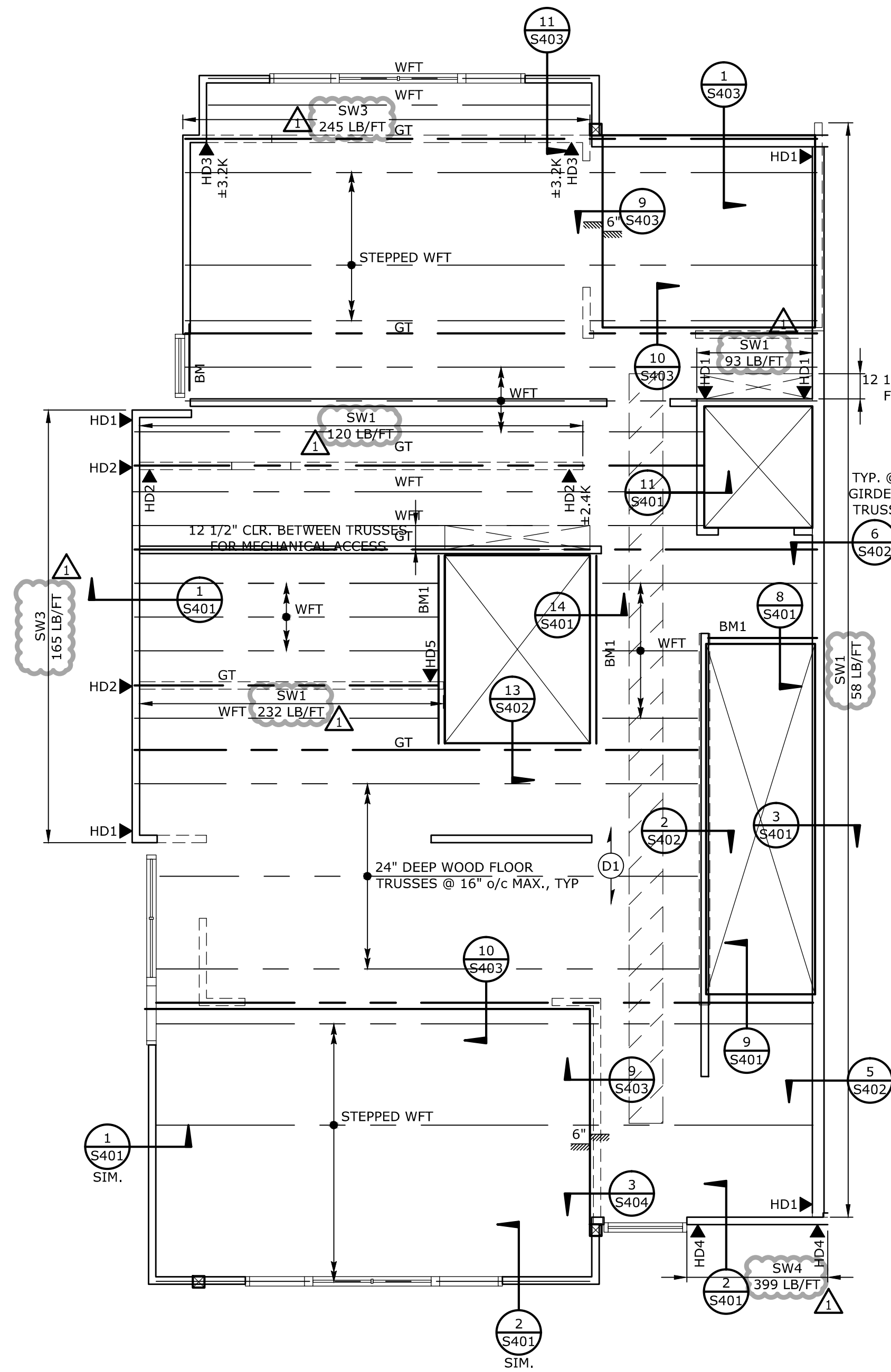


WOOD HEADER SCHEDULE					
LEVEL	OPENING SIZE	HEADER SIZE	NUMBER OF KING STUDS	NUMBER OF JACK STUDS	FRAMING CONNECTOR
ROOF TO 3rd FLOOR	LESS THAN 4'-0"	(2) 2x8	1	1	(1) SIMPSON MSTA24
	4'-0" - 6'-0"	(3) 2x8	1	1	(1) SIMPSON MSTA24
	6'-0" - 8'-0"	(3) 2x8	1	1	(1) SIMPSON MSTA24
	8'-0" - 10'-0"	(2) 2x8	2	1	(1) SIMPSON MSTA24
	10'-0" - 12'-0"	(3) 2x10	2	1	(1) SIMPSON MSTA24
3rd FLOOR TO 2nd FLOOR	GREATER THAN 12'-0"	CONSULT ENG	CONSULT ENG	CONSULT ENG	CONSULT ENG
	LESS THAN 4'-0"	(2) 2x8	1	1	(1) SIMPSON MSTA24
	4'-0" - 6'-0"	(2) 2x10	1	1	(1) SIMPSON MSTA24
	6'-0" - 8'-0"	(3) 2x12	2	1	(1) SIMPSON MSTA24
	8'-0" - 10'-0"	(2) 2x12	2	1	(1) SIMPSON MSTA24
2nd FLOOR TO 1st FLOOR	10'-0" - 12'-0"	(3) 2x10	2	1	(1) SIMPSON MSTA24
	GREATER THAN 12'-0"	CONSULT ENG	CONSULT ENG	CONSULT ENG	CONSULT ENG
	LESS THAN 4'-0"	(2) 2x8	1	1	(1) SIMPSON MSTA24
	4'-0" - 6'-0"	(2) 2x10	1	1	(1) SIMPSON MSTA24
	6'-0" - 8'-0"	(3) 2x12	2	1	(1) SIMPSON MSTA24
1st FLOOR TO GROUND	8'-0" - 10'-0"	(2) 2x12	2	1	(1) SIMPSON MSTA24
	10'-0" - 12'-0"	(3) 2x10	2	1	(1) SIMPSON MSTA24
	GREATER THAN 12'-0"	CONSULT ENG	CONSULT ENG	CONSULT ENG	CONSULT ENG
	LESS THAN 4'-0"	(3) 2x8	1	1	(1) SIMPSON MSTA24
	4'-0" - 6'-0"	(3) 2x8	1	1	(1) SIMPSON MSTA24

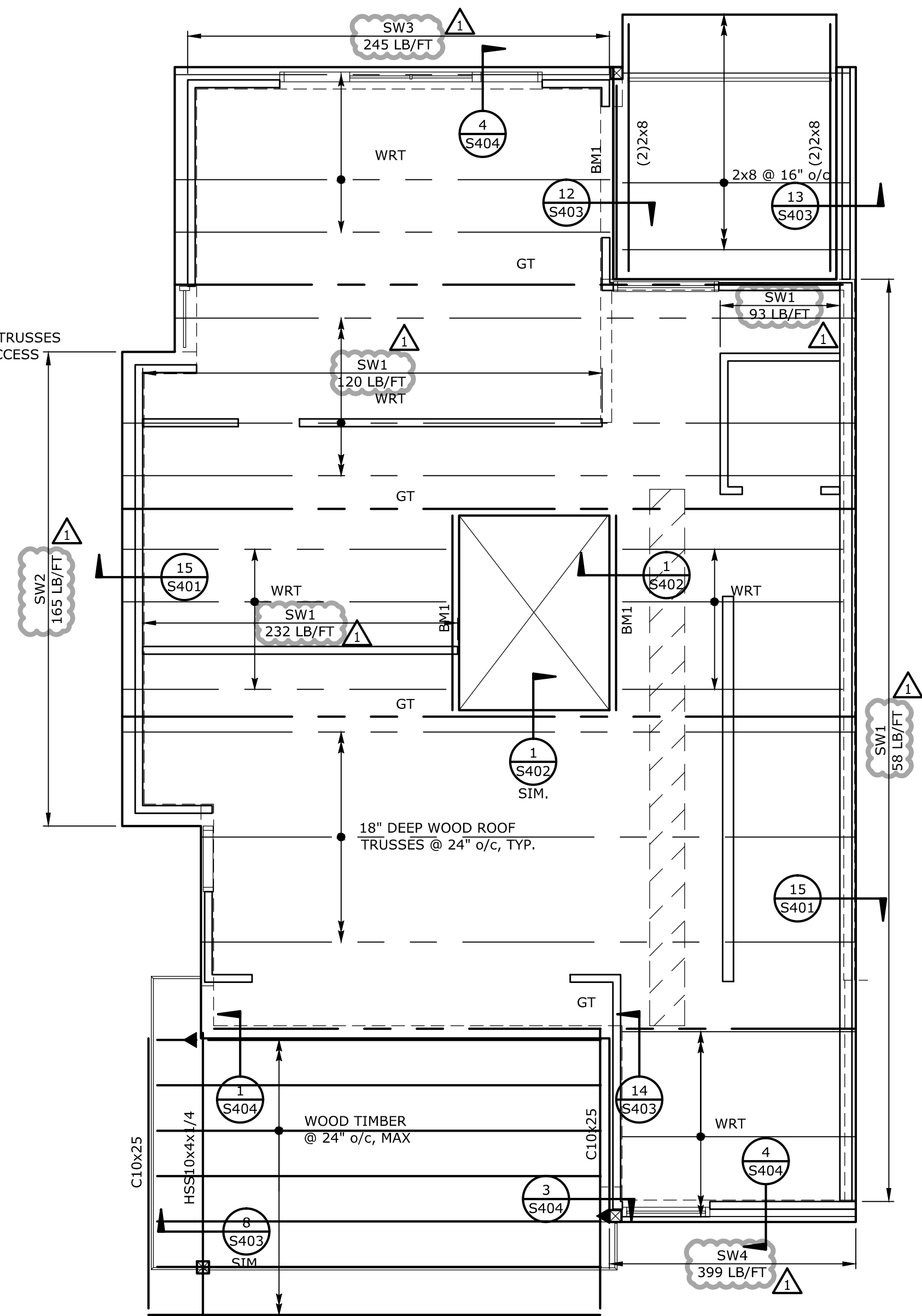
- NOTES:
- NUMBER OF KING STUDS IS FOR EXTERIOR WALL ONLY. PROVIDE (1) KING STUD EACH SIDE OF OPENING FOR INTERIOR WALL, UNLESS NOTED OTHERWISE.



INDICATES APPROXIMATE LOCATION OF LATERAL MECHANICAL RUN. PROVIDE ALIGNED TRUSS MEMBERS W/ SPACING TO ALLOW PASSAGE OF DUCT INDICATED ON MECHANICAL DRAWINGS.



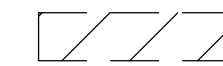
UNIT TYPE 1A
PARTIAL PLAN
UNIT 1, UNIT 6
LEVEL 3
FRAMING
SCALE: 1/4" = 1'-0"
1
S202



UNIT TYPE 1A
PARTIAL PLAN
UNIT 1, UNIT 6
ROOF
FRAMING
SCALE: 1/4" = 1'-0"
2
S202

NOTES & LEGEND:

- SEE S001 FOR STRUCTURAL GENERAL NOTES. SEE S002 FOR STRUCTURAL SCHEDULES.
- SEE S401 TO S403 FOR TYPICAL FRAMING SECTIONS AND DETAILS.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, ELEVATIONS, AND OTHER INFORMATION NOT SHOWN.
- ALL ELEVATIONS GIVEN RELATIVE TO GARAGE TOP OF SLAB ELEVATION = 0'-0".
- SEE CIVIL DRAWINGS FOR ACTUAL ELEVATIONS AND SLOPES ON BUILDING SITE.
- TCX INDICATES COLUMN MARK. SEE COLUMN SCHEDULE ON S002.
- INDICATES SLAB DEPRESSION
- SWx INDICATES SHEAR WALL MARK. SEE SCHEDULE ON S002. SHEAR WALLS ARE SHOWN FOR FRAMING ABOVE FLOOR EXCEPT AT ROOF
- HDx INDICATES HOLDOWN MARK. SEE SCHEDULE ON S002.
- ATsx INDICATES ANCHOR TIE DOWN MARK. SEE SCHEDULE ON S002.
- INDICATES STRUCTURAL WOOD STUD WALL ABOVE. SEE SCHEDULE ON S002.
- INDICATES STRUCTURAL WOOD STUD WALL BELOW. SEE SCHEDULE ON S002.
- D1 INDICATES SPAN DIRECTION OF FULLY BLOCKED 160c APA RATED, EXPOSURE 1 PLYWOOD STRUD-I-FLOOR (19/32" THICKNESS) w/ 104 COMMON NAILS 4" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS.
- D2 INDICATES SPAN DIRECTION OF 32/16 APA RATED, EXPOSURE 1 OSB SHEATHING (15/32" THICKNESS) w/ 84 COMMON NAILS 6" o/c AT PANEL EDGES AND 12" o/c AT INTERMEDIATE SUPPORTS.
- BMx INDICATES WOOD BEAM DESIGNATION. SEE SCHEDULE ON S002.
- COORDINATE SIZE AND LOCATION OF MECHANICAL OPENINGS WITH MECHANICAL EQUIPMENT SUPPLIER, MECHANICAL DRAWINGS, AND ARCHITECT.
- COORDINATE SIZE AND LOCATION OF PLUMBING SLEEVES, ROOF DRAINS, AND PENETRATIONS WITH PLUMBING ENGINEER AND ARCHITECT.



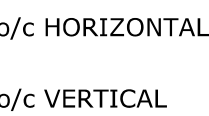
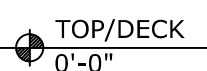
INDICATES APPROXIMATE LOCATION OF LATERAL MECHANICAL RUN. PROVIDE ALIGNED TRUSS MEMBERS w/ SPACING TO ALLOW PASSAGE OF DUCT INDICATED ON MECHANICAL DRAWINGS.



1
S303



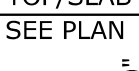
2
S303



4
S303



5
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6
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7
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8
S303

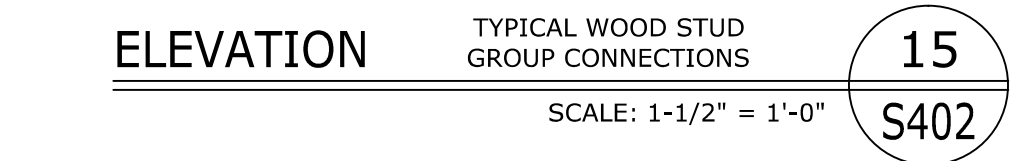
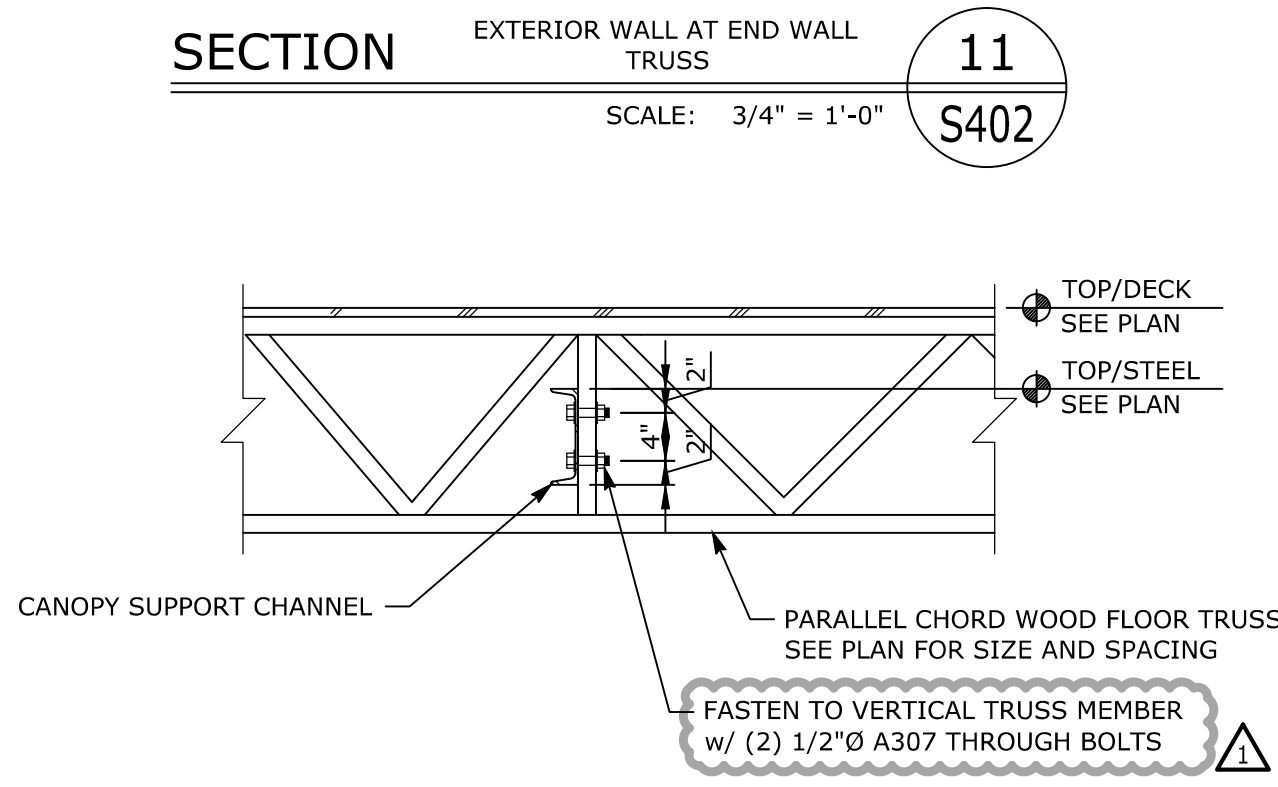
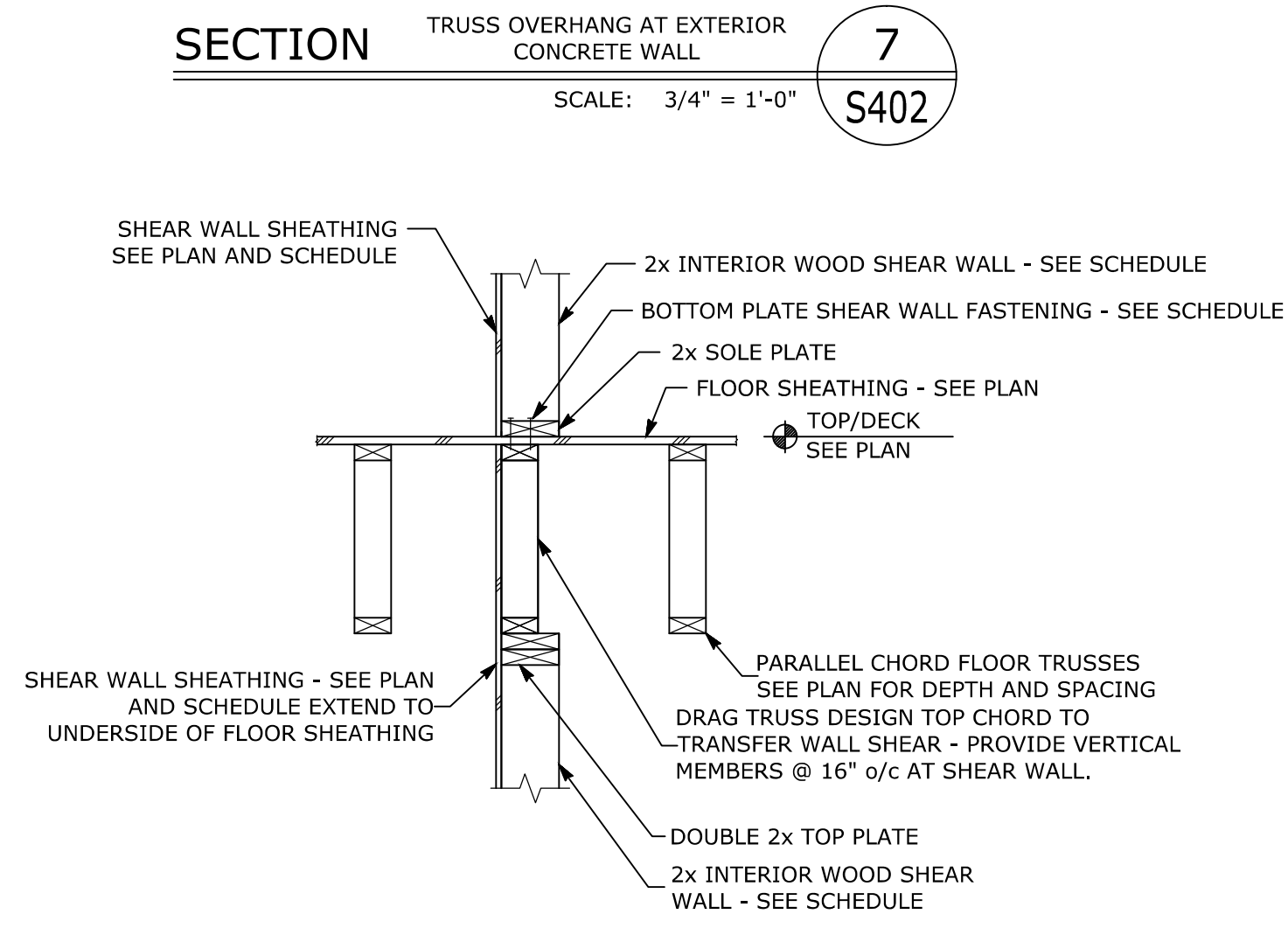
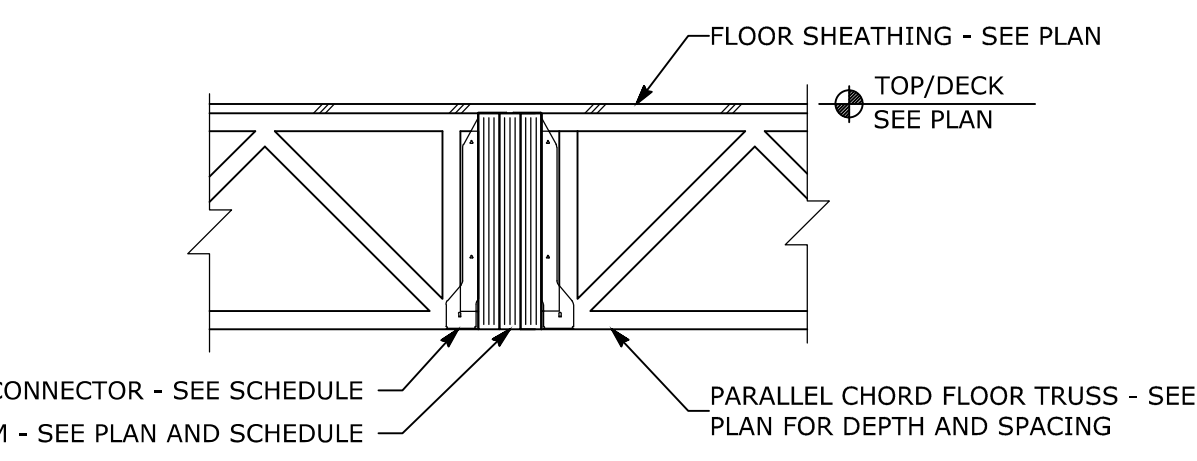
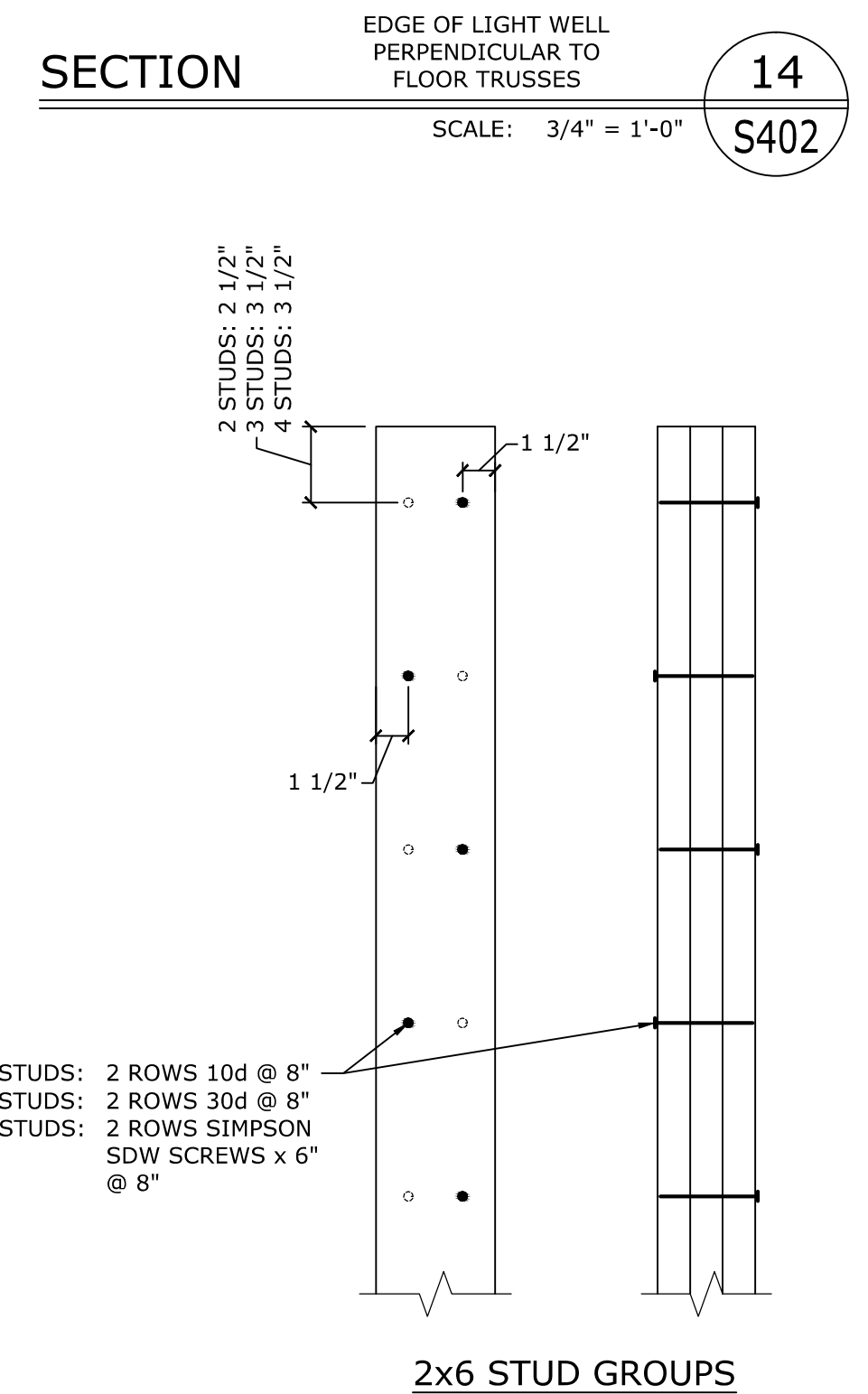
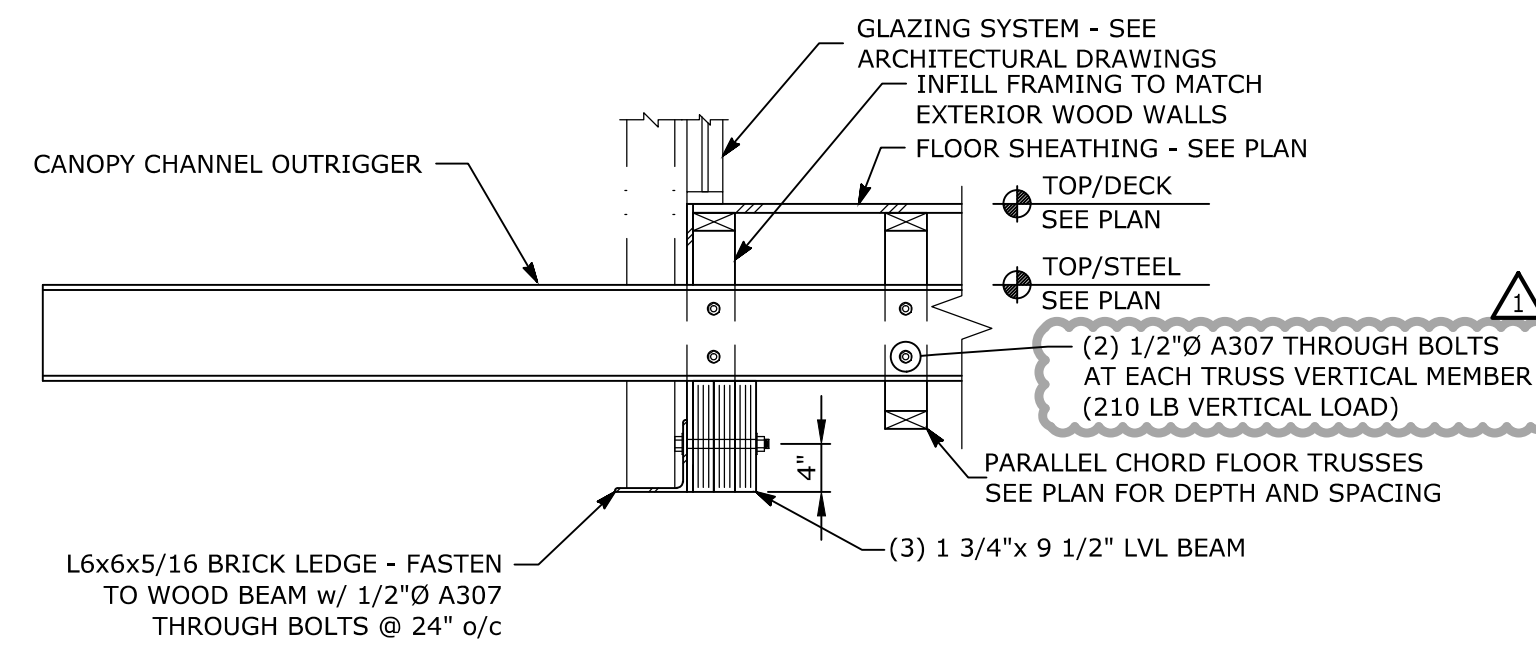
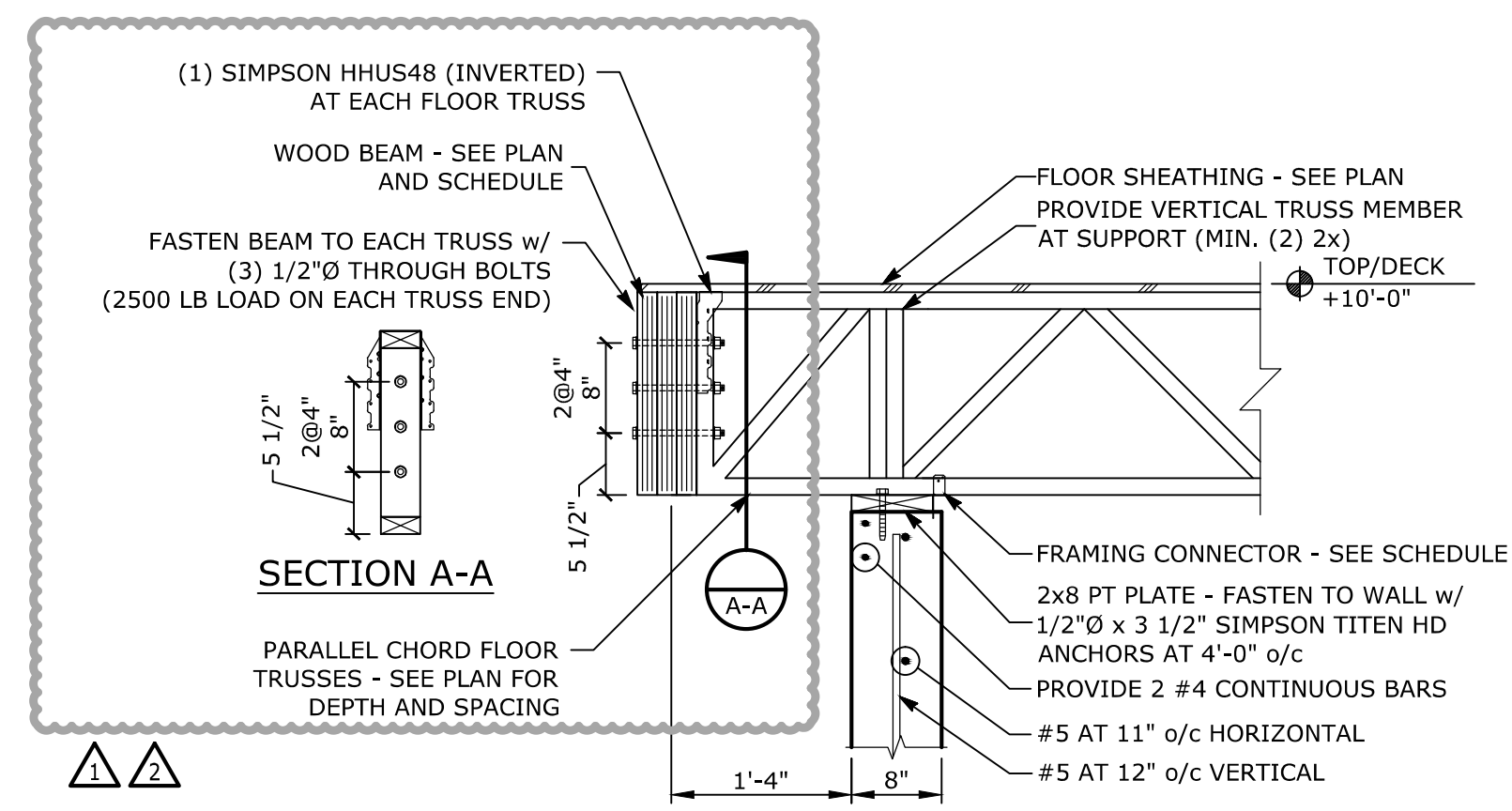
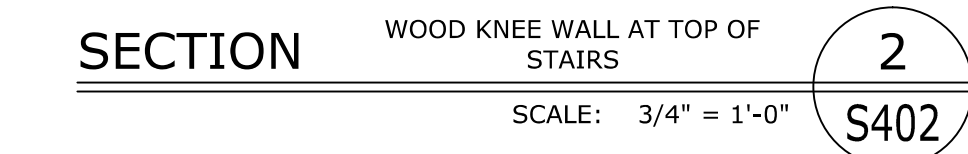
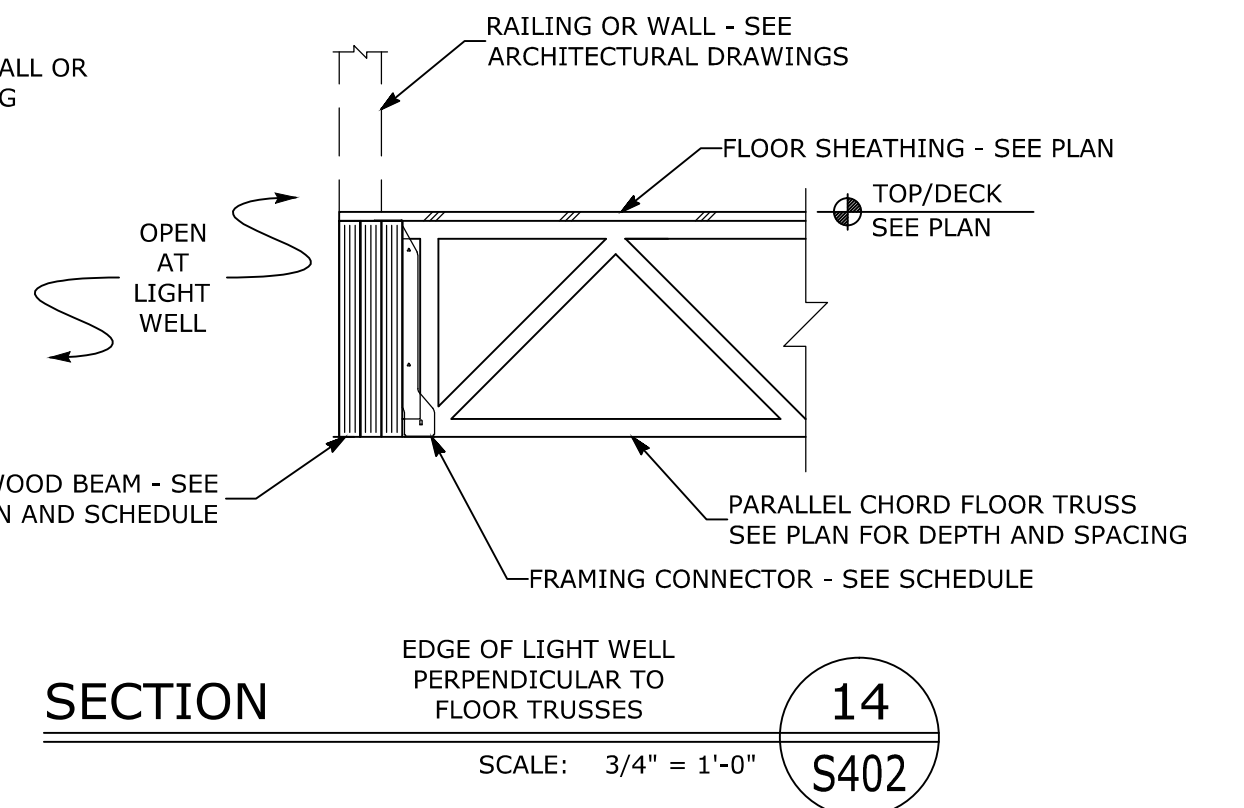
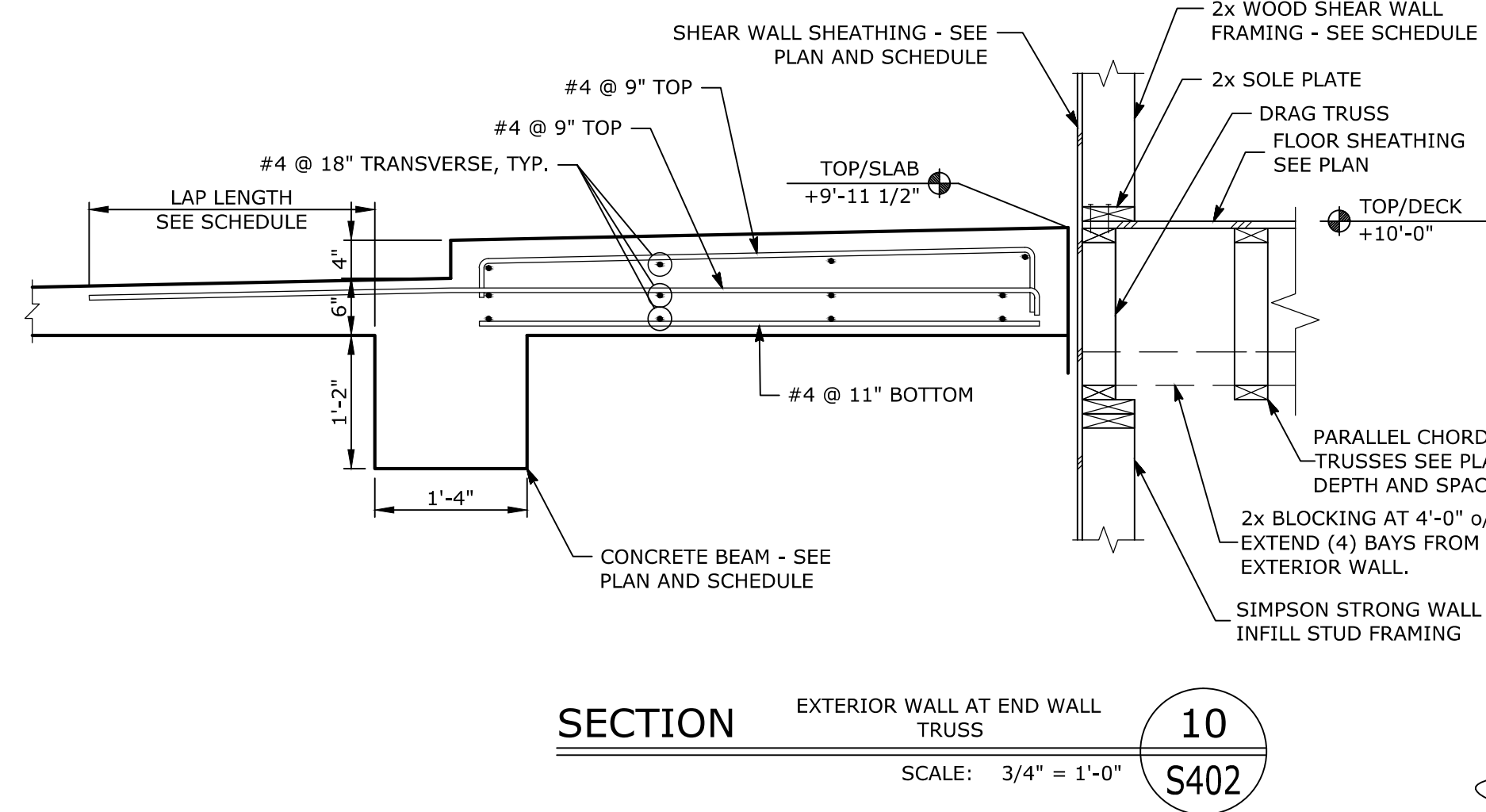
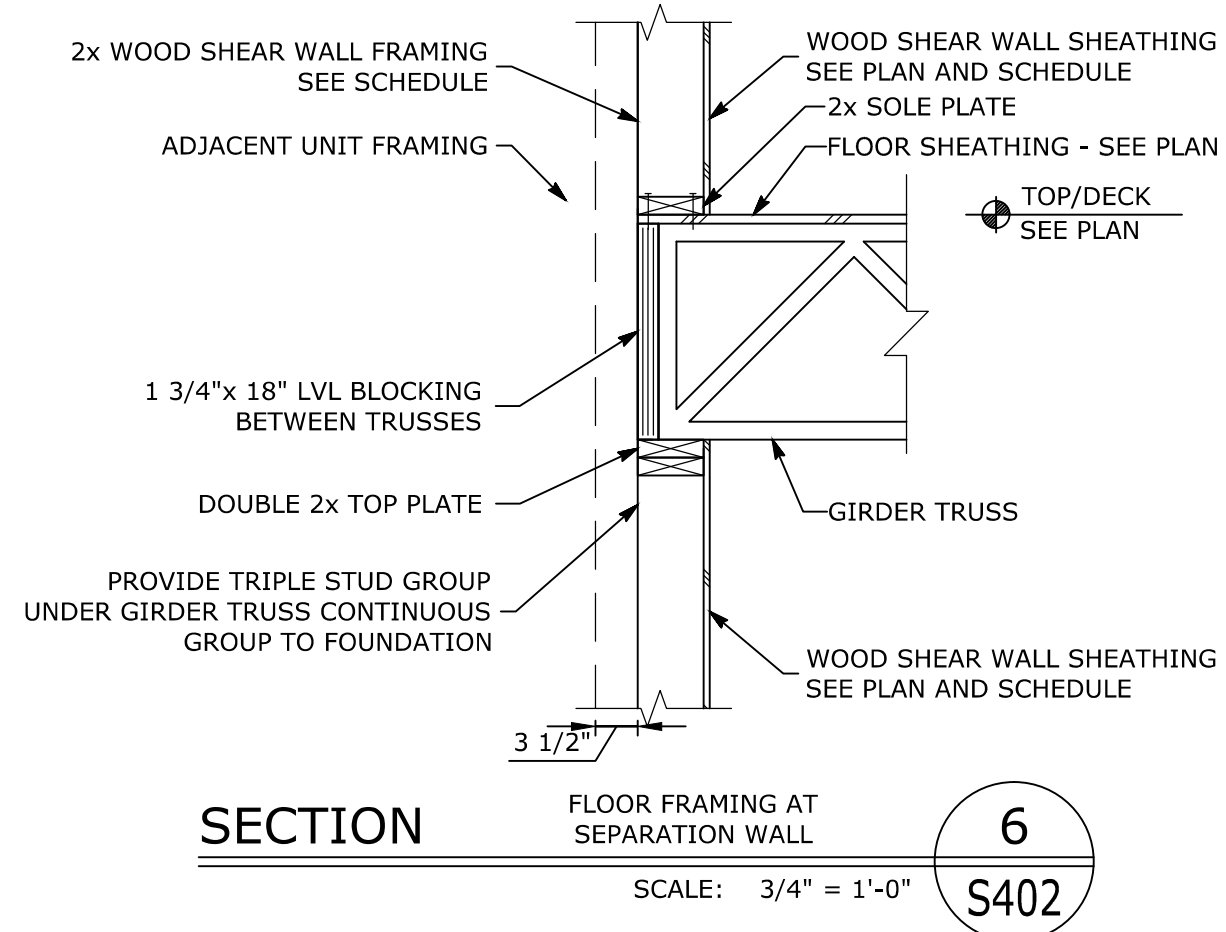
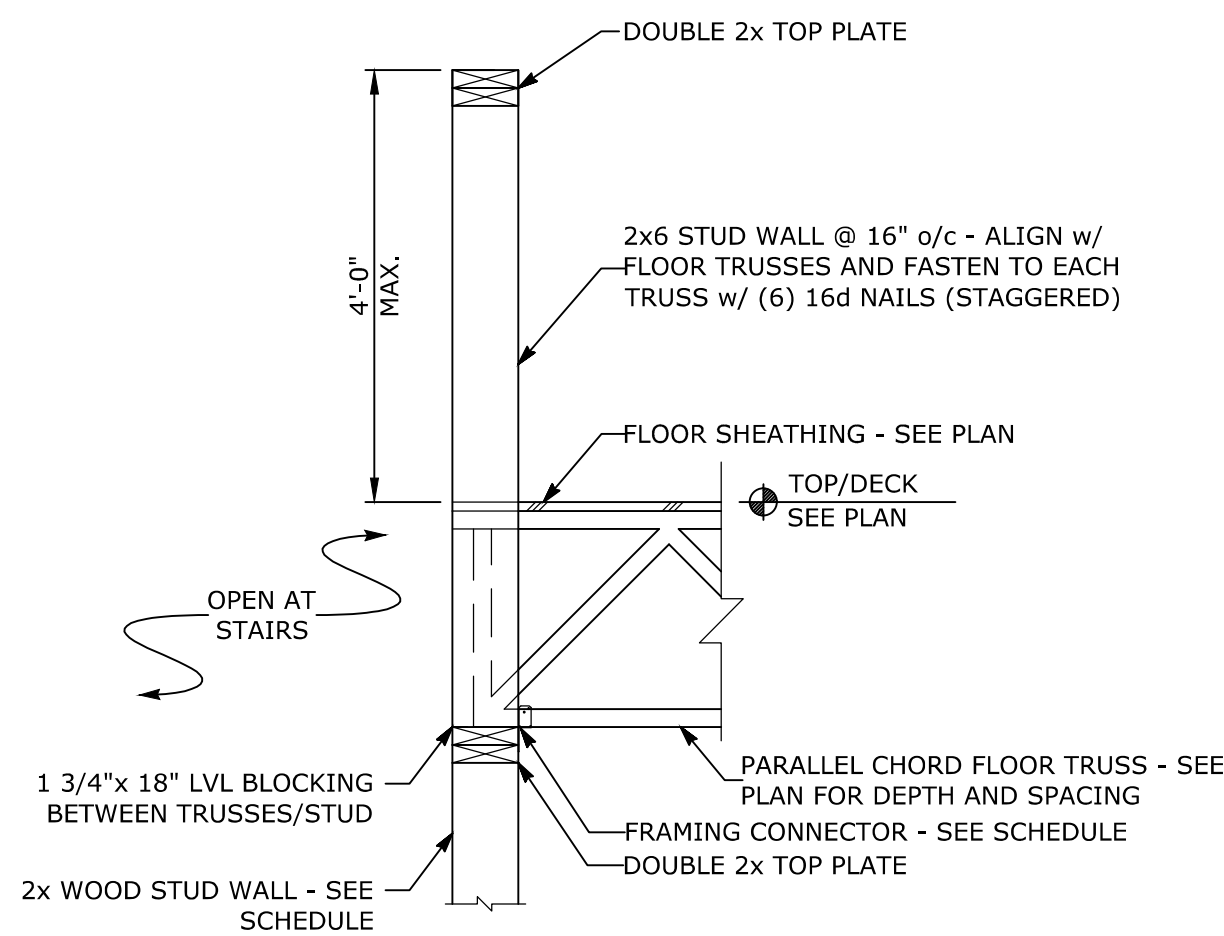
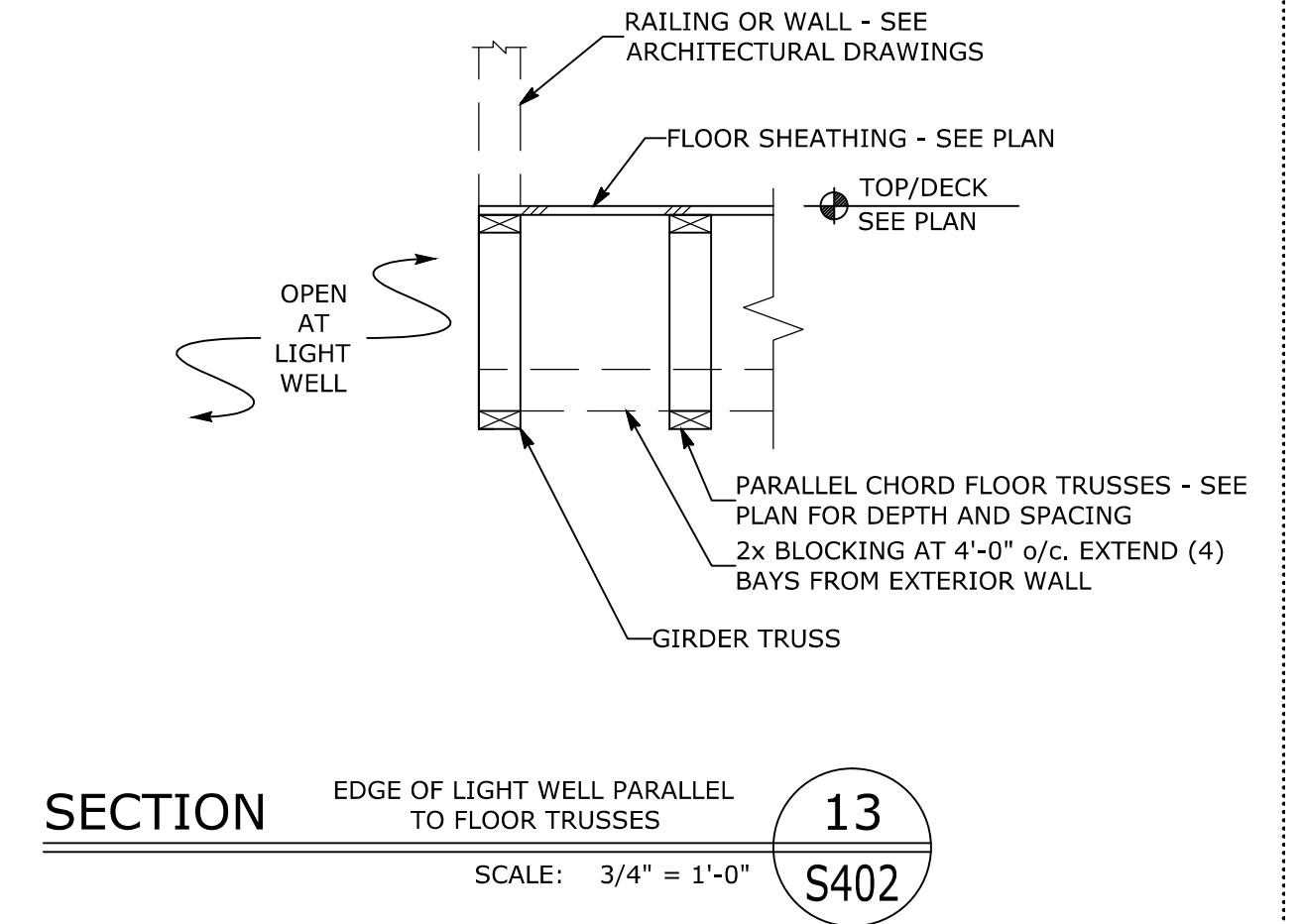
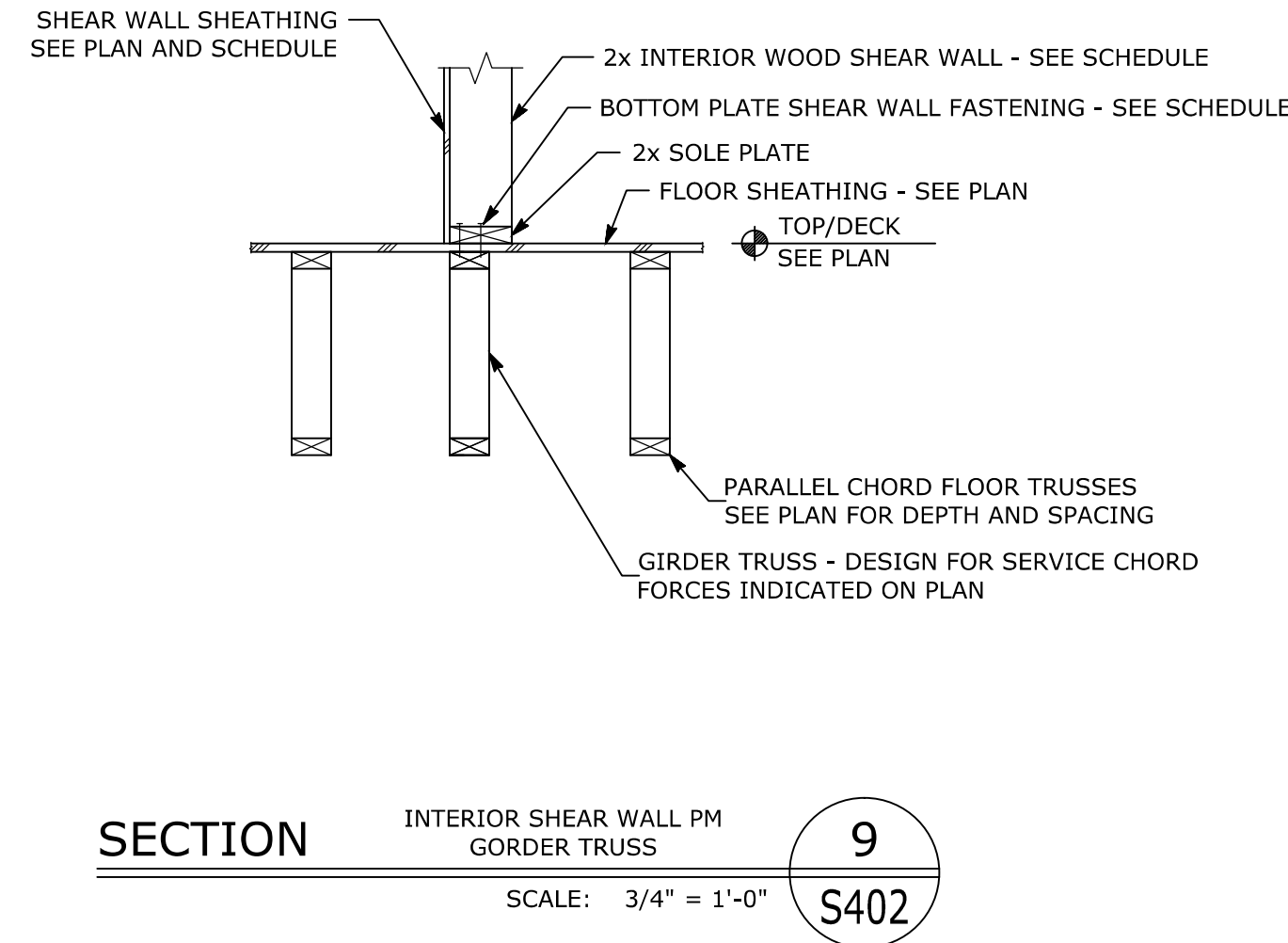
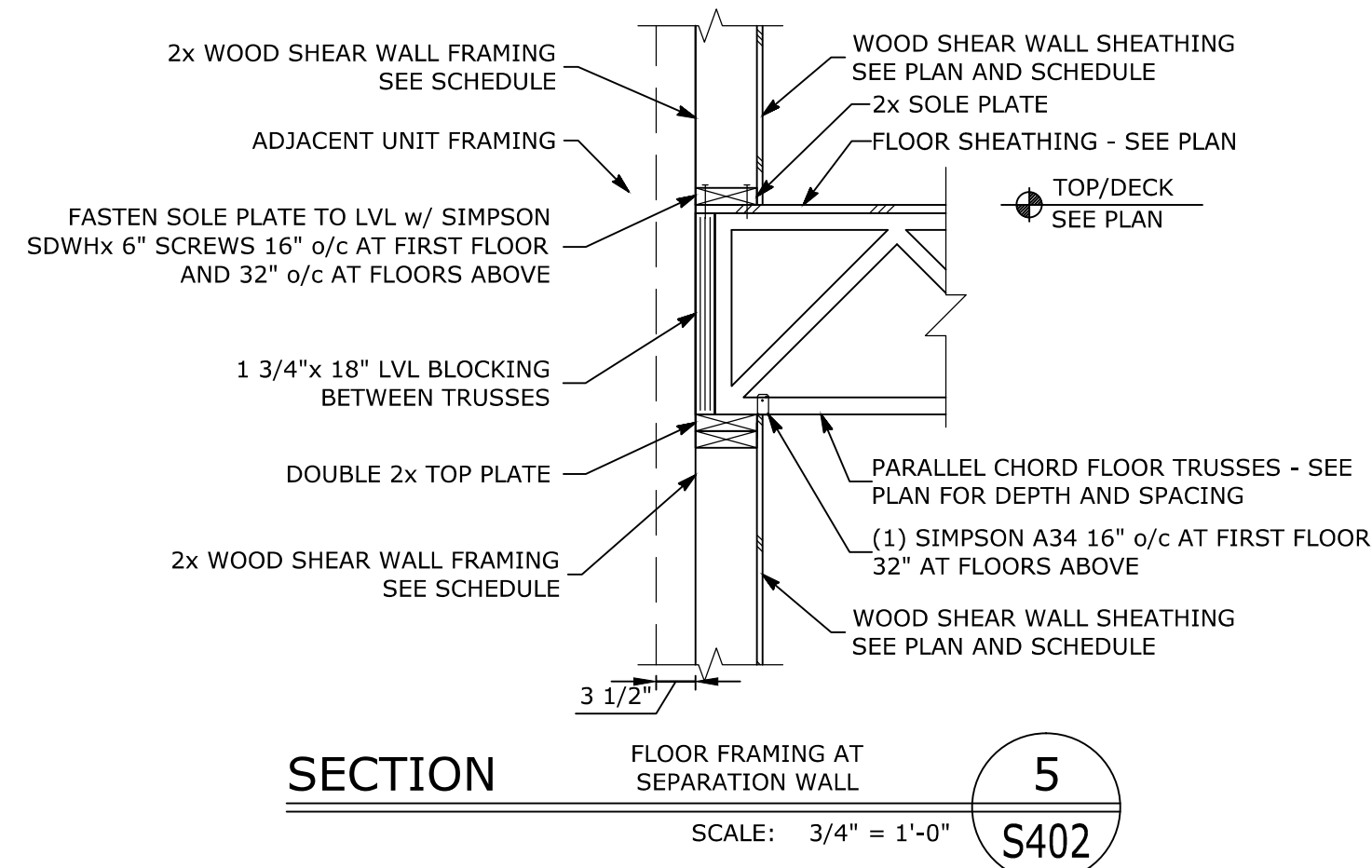
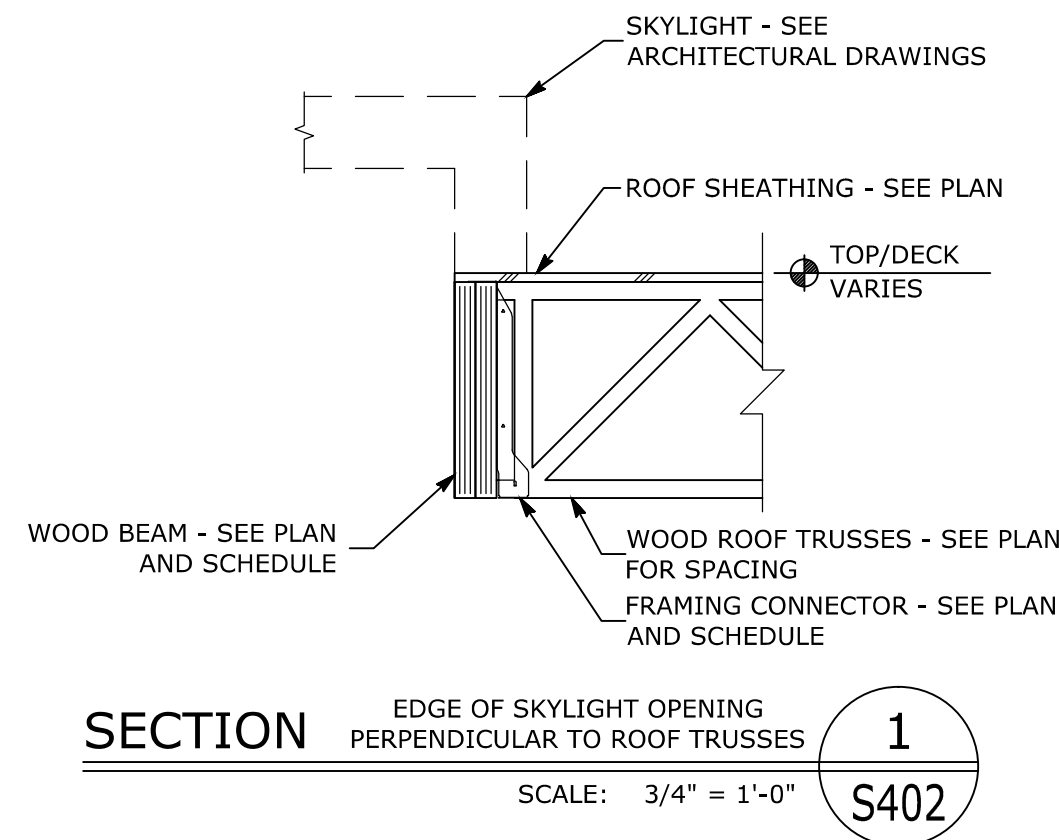


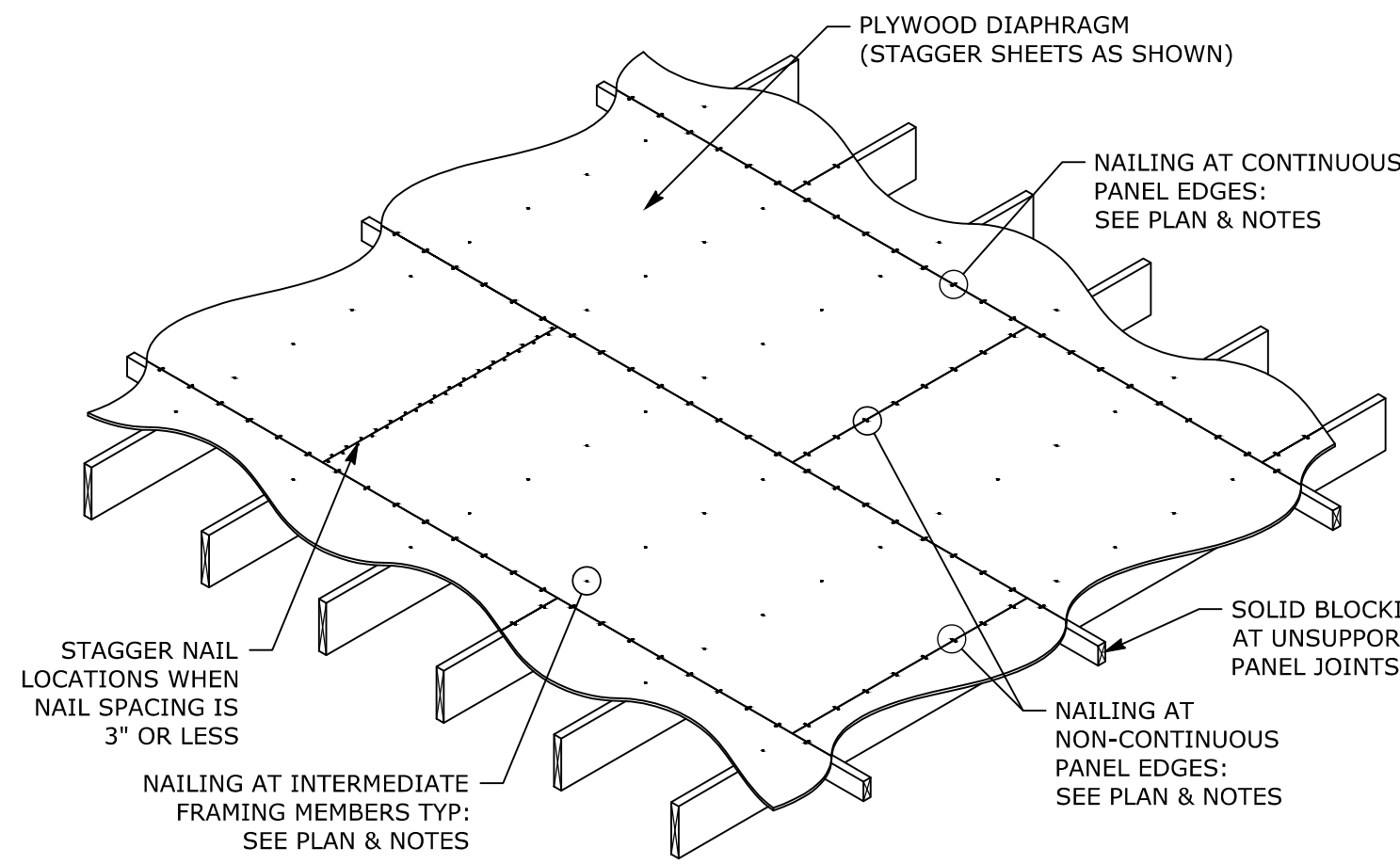
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S303



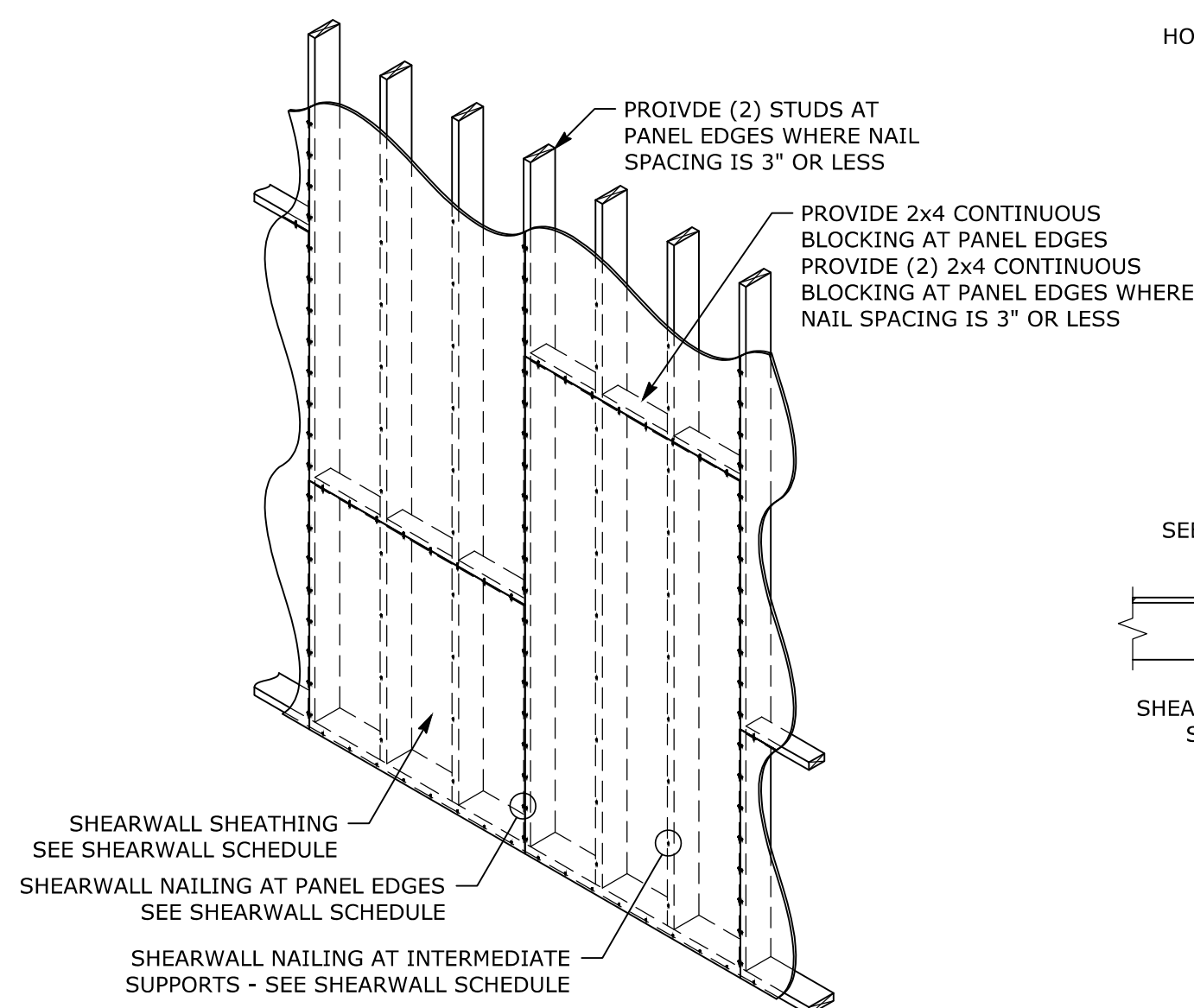
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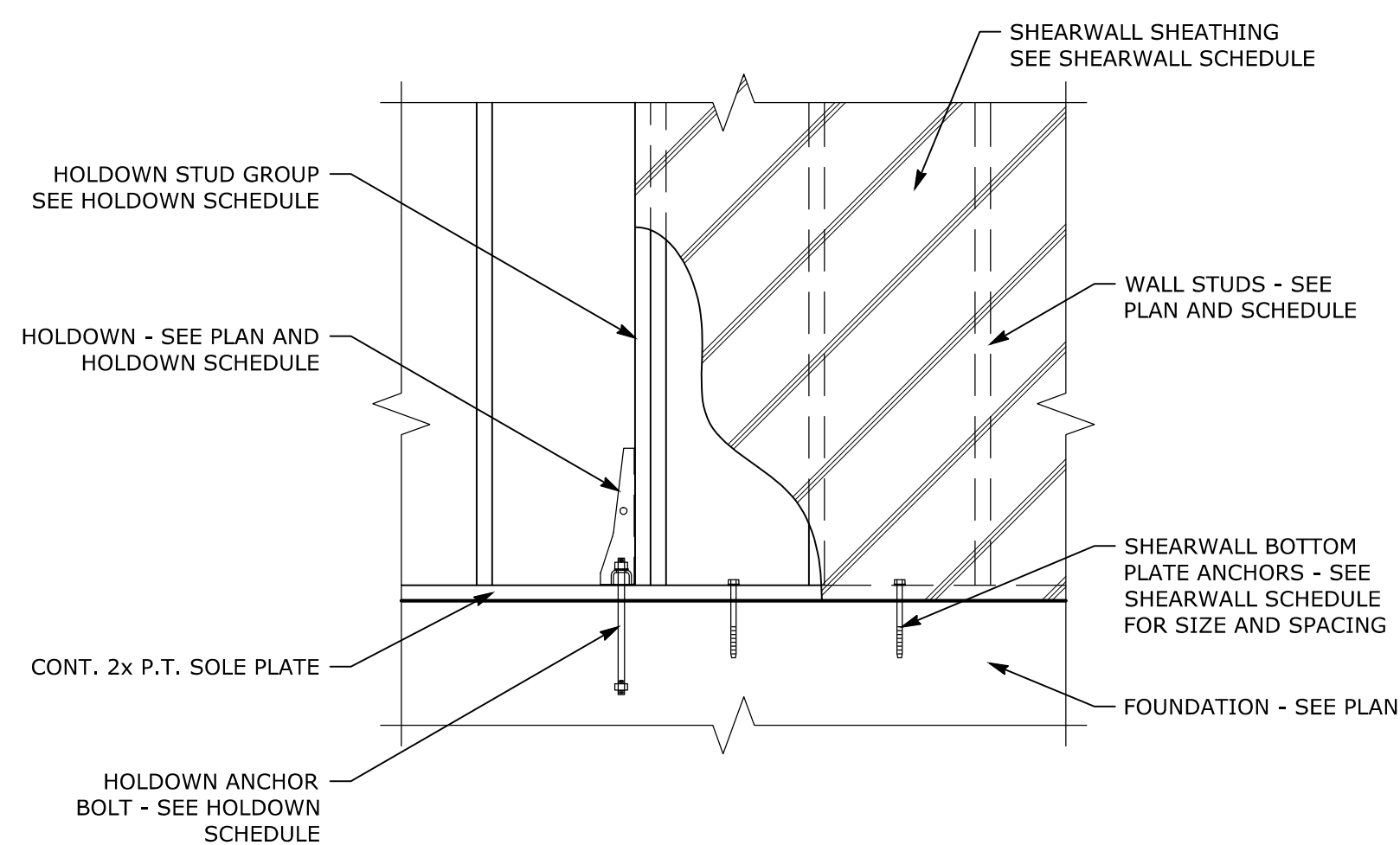




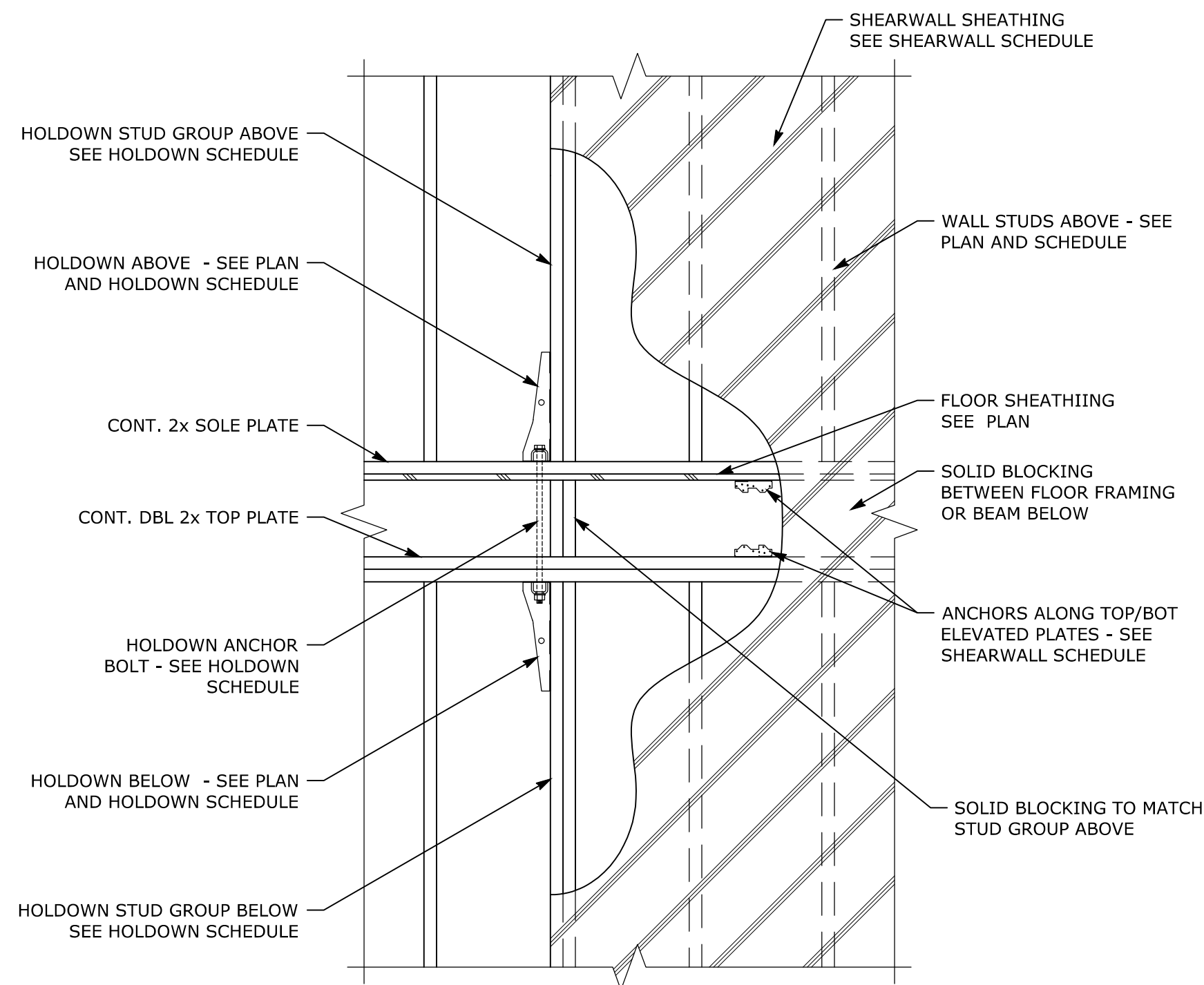
DETAIL TYPICAL BLOCKED WOOD PANEL DIAPHRAGM FASTENING 1 S403 SCALE: 3/8" = 1'-0"



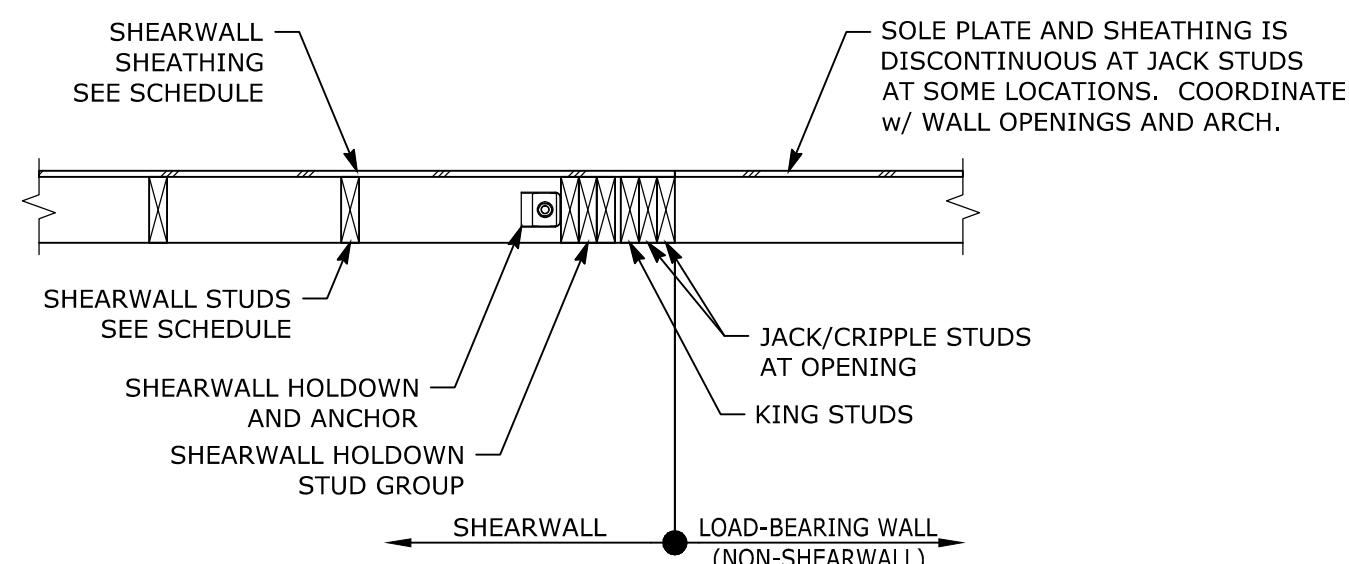
ELEVATION TYPICAL WOOD SHEARWALL PANEL LAYOUT 2 S403 SCALE: 3/8" = 1'-0"



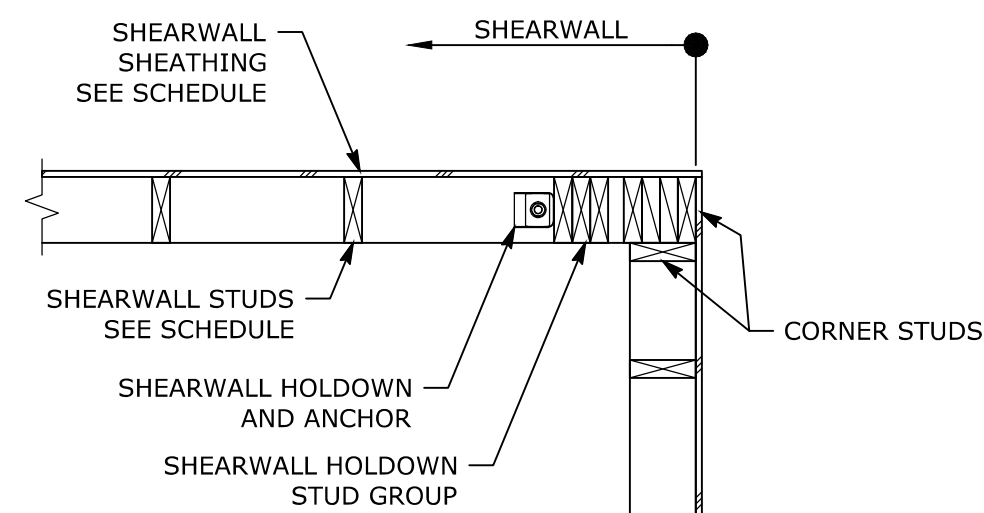
SECTION WOOD SHEARWALL HOLDOWN AND STUD GROUP AT FOUNDATION 3 S403 SCALE: 3/4" = 1'-0"



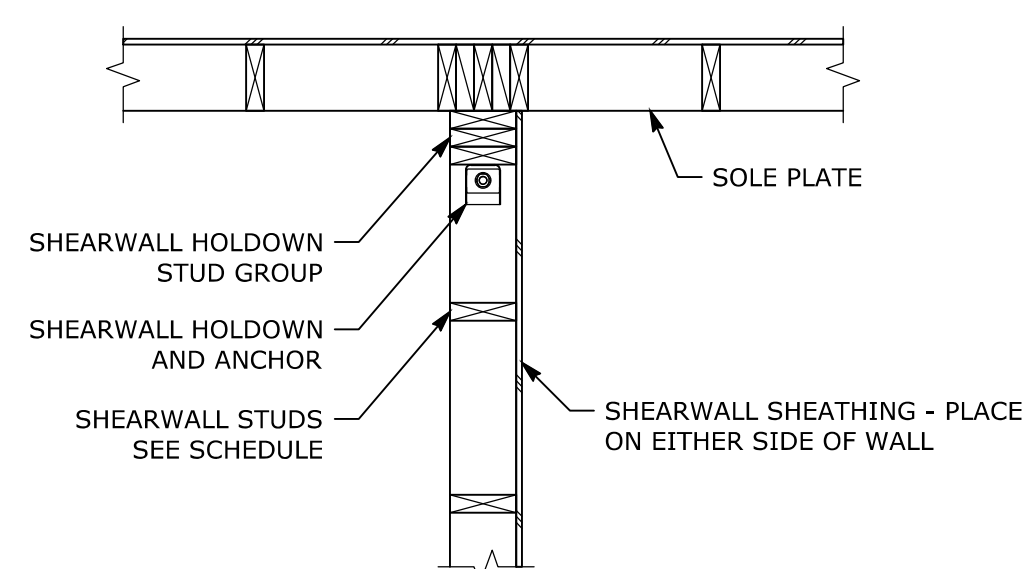
SECTION SHEARWALL HOLDOWN AND STUD GROUP AT ELEVATED FLOOR 4 S403 SCALE: 3/4" = 1'-0"



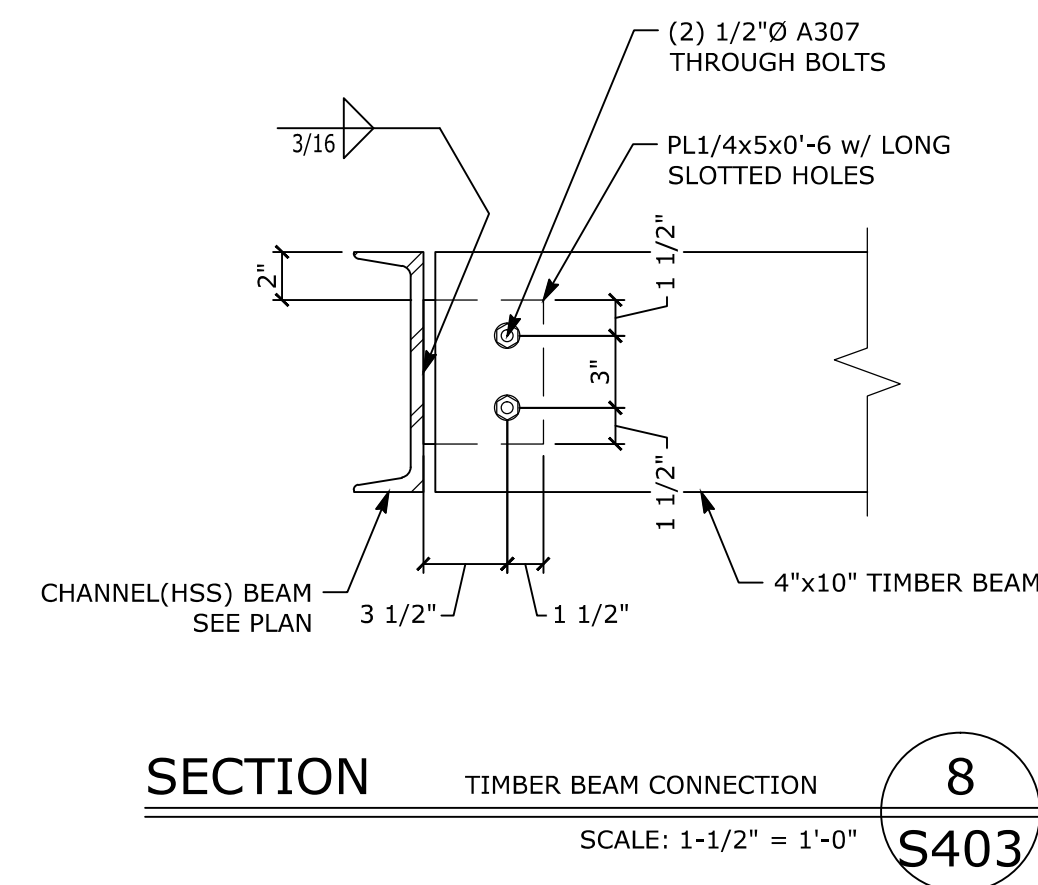
DETAIL TYPICAL WOOD SHEARWALL END HOLDOWN AT OPENING 5 S403 SCALE: 3/4" = 1'-0"



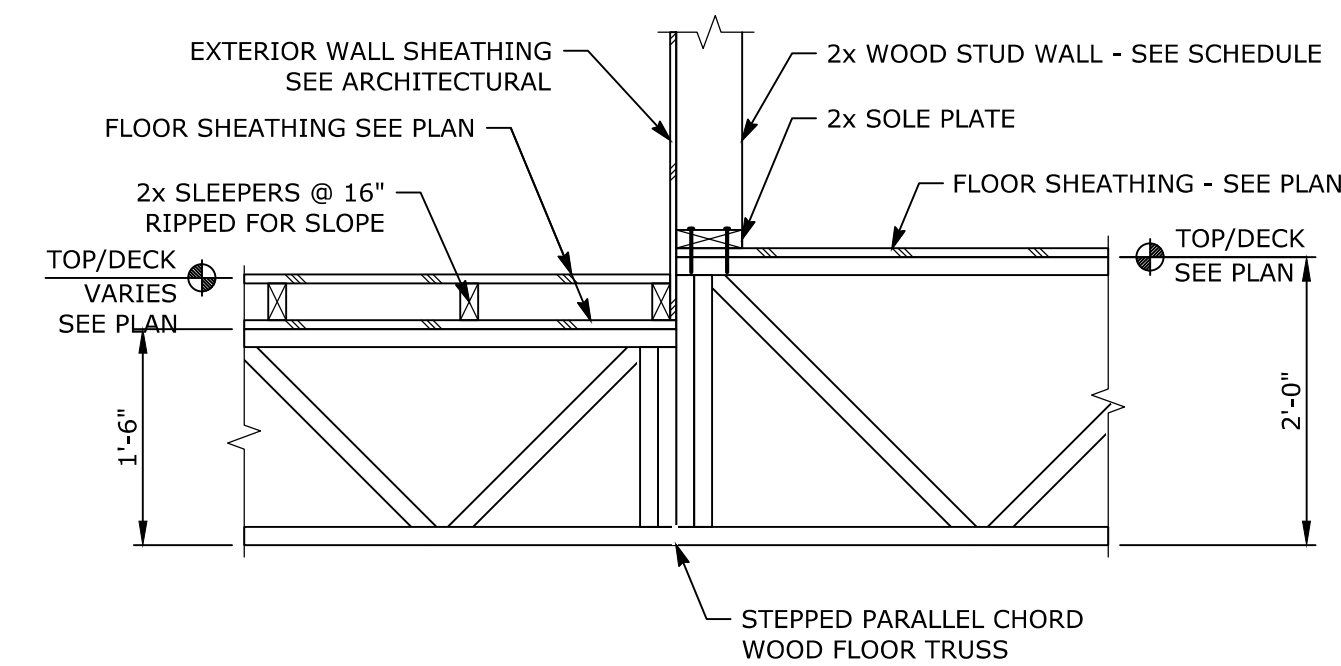
DETAIL TYPICAL WOOD SHEARWALL HOLDOWN AT CORNER 6 S403 SCALE: 3/4" = 1'-0"



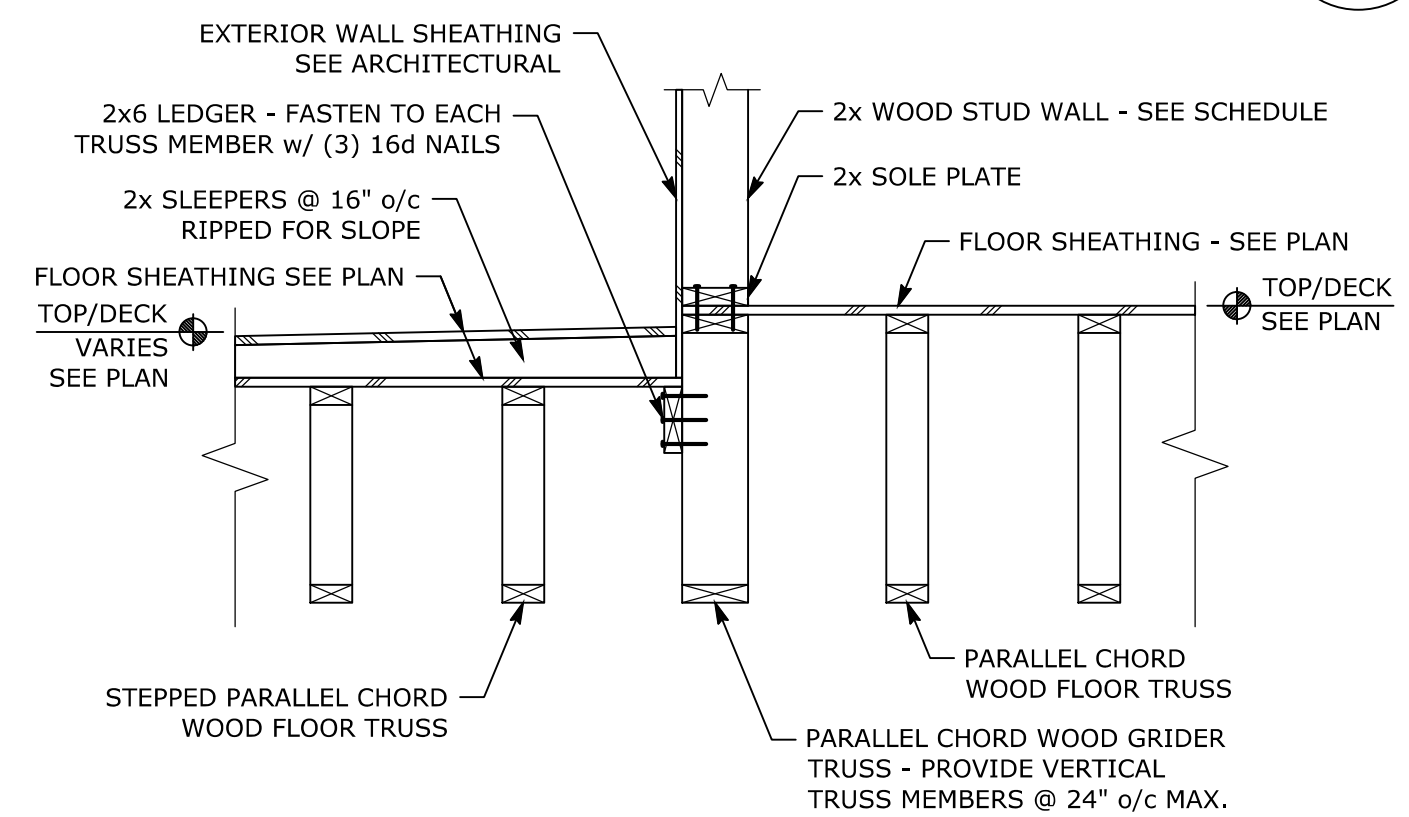
DETAIL TYPICAL SHEARWALL HOLDOWN AT WALL INTERSECTION 7 S403 SCALE: 3/4" = 1'-0"



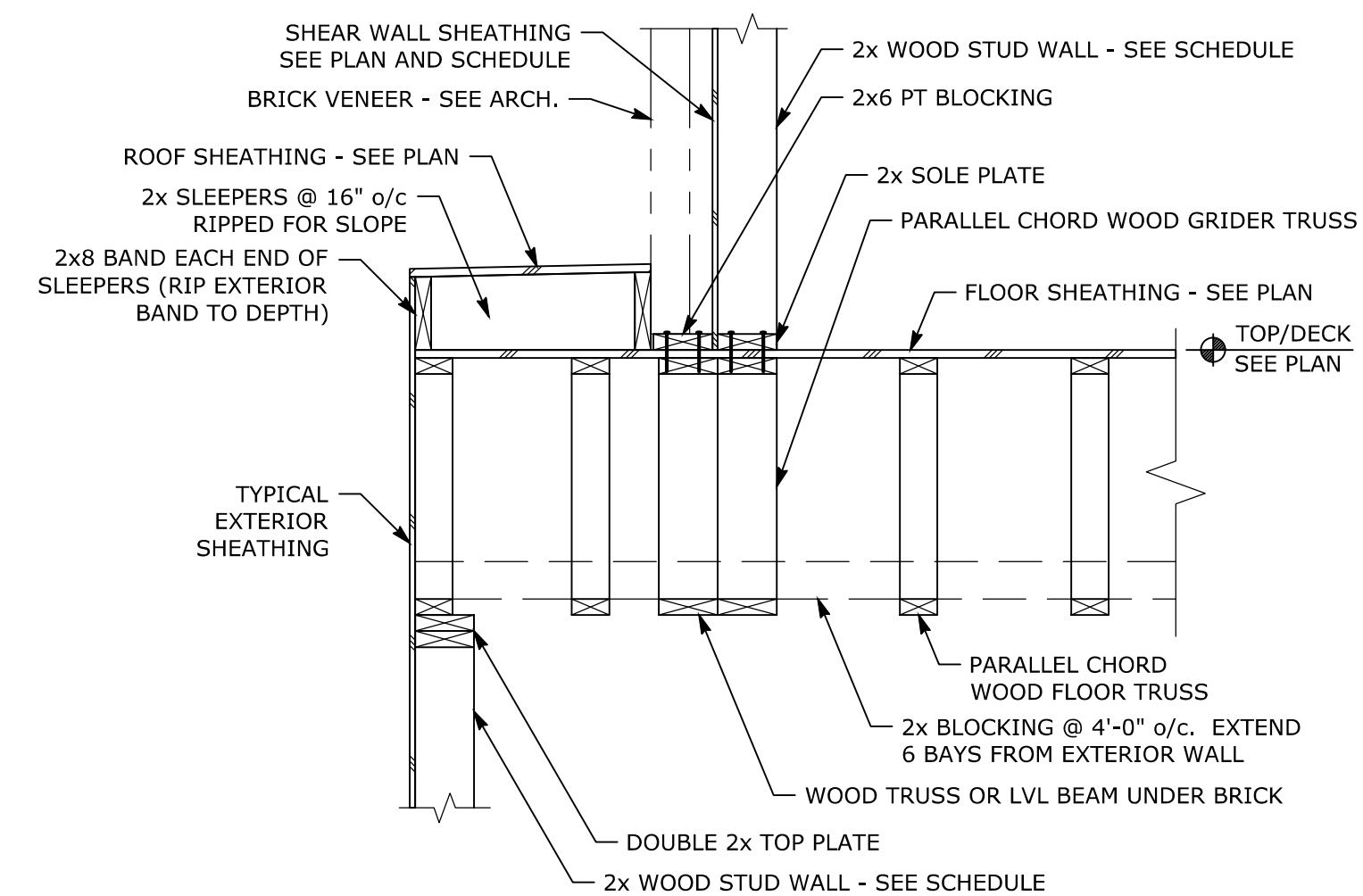
SECTION TIMBER BEAM CONNECTION 8 S403 SCALE: 1-1/2" = 1'-0"



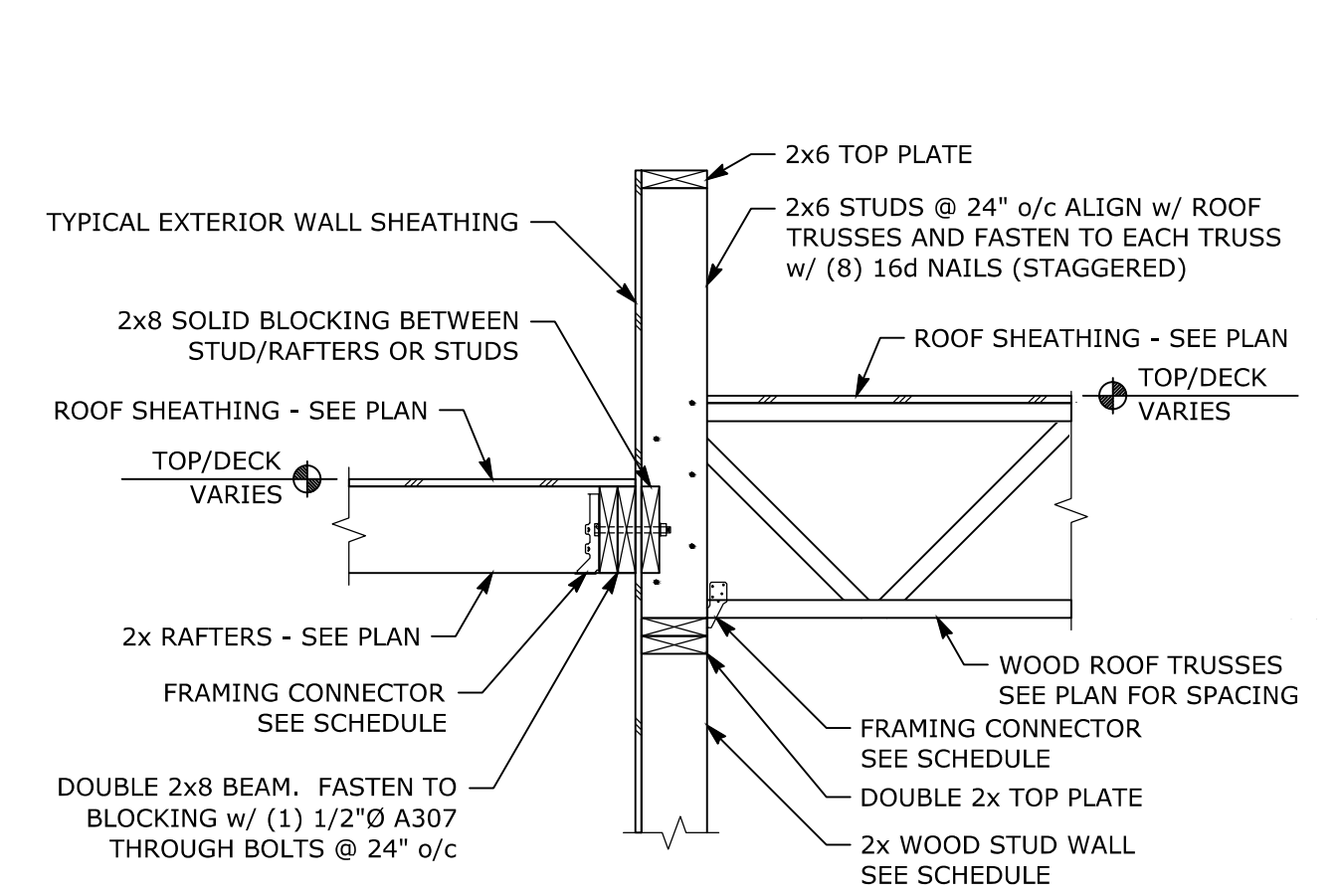
SECTION EDGE OF TERRACE AT STEPPED PARALLEL CHORD TRUSS 9 S403 SCALE: 3/4" = 1'-0"



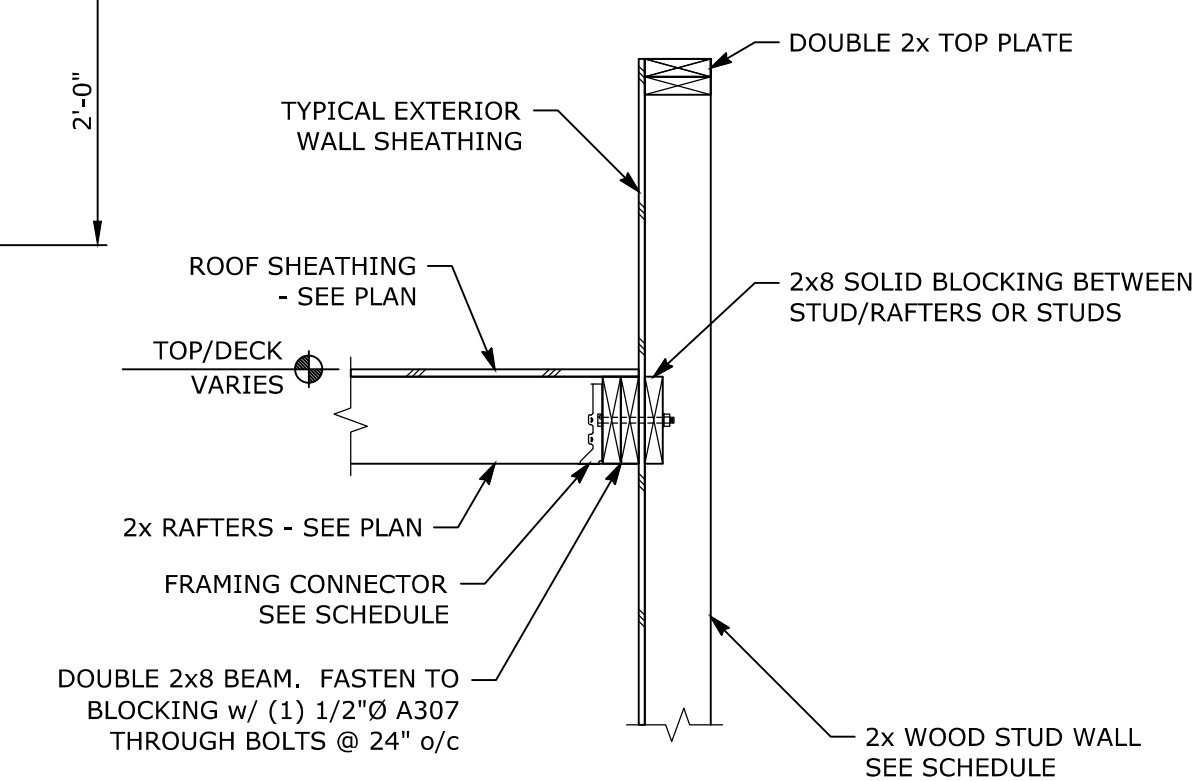
SECTION EDGE OF TERRACE AT STEPPED PARALLEL CHORD TRUSS 10 S403 SCALE: 3/4" = 1'-0"



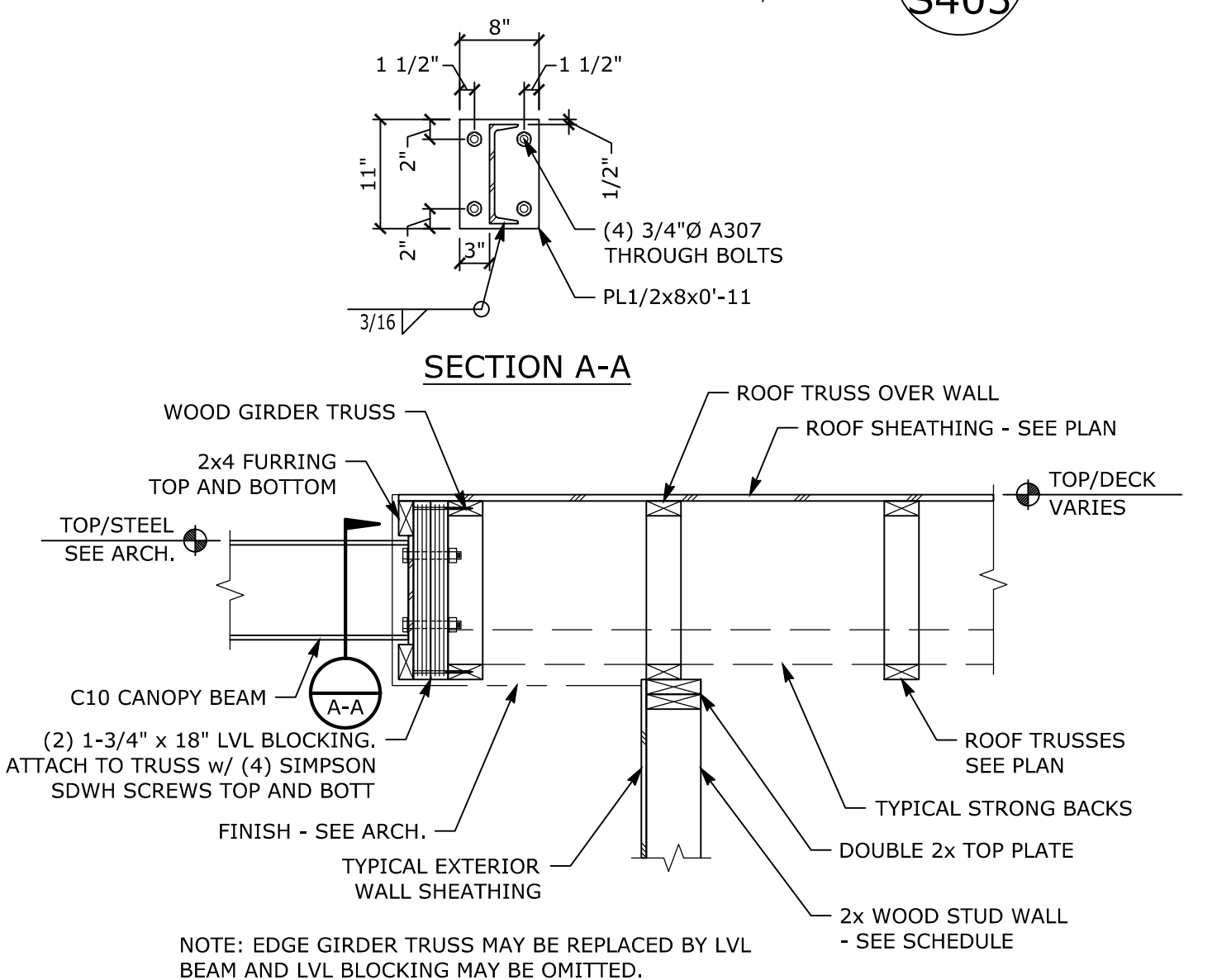
SECTION THIRD FLOOR SET BACK ROOF 11 S403 SCALE: 3/4" = 1'-0"



SECTION PATIO ROOF FRAMING 12 S403 SCALE: 3/4" = 1'-0"



SECTION PATIO ROOF FRAMING 13 S403 SCALE: 3/4" = 1'-0"



SECTION STEEL BEAM ATTACHMENT TO GIRDER TRUSS 14 S403 SCALE: 3/4" = 1'-0"