



06.04.21
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SABO
STRUCTURAL
ENGINEERING
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PLAN NAME
B2EC
SSE No.
21-0314

ISSUE	DATE
PERMIT	06.04.21
REVISIONS	DATE

STRUCTURAL ENGINEERING FOR
THE ELLIOT RESIDENCE

FIELD ALTERATION
CONTRACTOR SHALL CONTACT SABO STRUCTURAL ENGINEERING PRIOR TO MAKING ANY STRUCTURAL FIELD MODIFICATIONS WHICH MAY VARY FROM THE INTENT OF THE ORIGINAL CONSTRUCTION DOCUMENTS. ANY FIELD ALTERATIONS MADE PRIOR TO OBTAINING APPROVAL BY SABO STRUCTURAL ENGINEERING MAY RESULT IN ADDITIONAL ENGINEERING OR INSPECTION FEES.

SCALING
DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS. IF A DIMENSION IS UNCLEAR REFER TO THE ARCHITECTURAL DRAWINGS OR CONTACT THE E.O.R.

DESIGN CRITERIA AND GENERAL NOTES

DESIGN SPECIFICATIONS

DESIGN CODE:
2020 FLORIDA BUILDING CODE – RESIDENTIAL
DESIGN IS VOID ONE YEAR AFTER THE DATE OF THE ORIGINAL PLANS. UNLESS PLANS HAVE BEEN REVIEWED FOR CODE COMPLIANCE.
DESIGN LOADS: ACTUAL AND UNIFORM

ROOF		CEILING
ROOF CHORD LIVE LOAD	(cd=1.25)	(cd=1.00)
20 psf (ARCH SHINGLES)	40 psf	10 psf
20 psf (TILE SHINGLES)	7 psf	10 psf
10 psf	10 psf	10 psf
5 psf	5 psf	5 psf

ROOF FRAMING: LIVE LOAD L/240 TOTAL LOAD L/180
FLOOR FRAMING: LIVE LOAD L/360 & TOTAL LOAD L/240
0.75" MAX ANY CASE

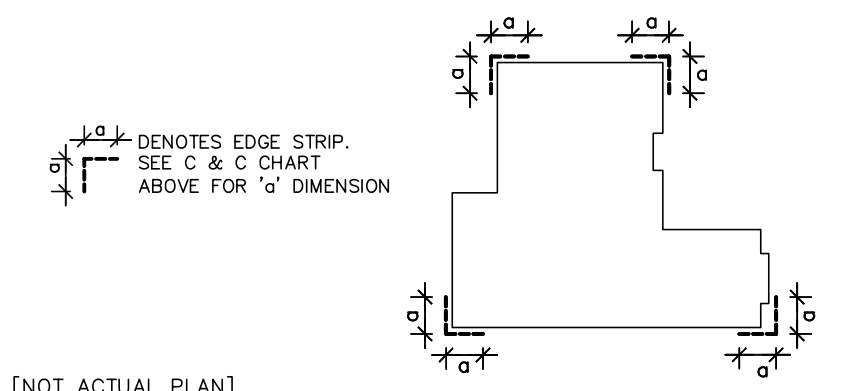
WIND LOADING:
ASCE 7/16 FOR WIND UPLIFT. TRUSSES SHALL BE DESIGNED WITH A MIN. DEAD LOAD CONDITION OF 5 PSF TOP CHORD, AND 5 PSF BOTTOM CHORD. REACTIONS CALCULATED FOR THE BEARING POINTS OF ROOF TRUSSES SHALL BE REDUCED. SPECIFICALLY ATTIC FLOOR LOADS COMBINED WITH ROOF LIVE LOADS SHALL BE MULTIPLIED BY 0.75 WHEN COMBINED W/ DEAD LOAD.
BASIC WIND SPEED (ASCE 7-16) ----- **130 MPH**
IMPORTANCE FACTOR ----- 1.00
MEAN ROOF HEIGHT ----- 20.0 FT
ROOF PITCH ----- 7/12
BUILDING CATEGORY ----- C
EXPOSURE CATEGORY ----- C
ENCLOSURE CLASSIFICATION ----- ENCLOSED
INTERNAL PRESSURE COEFFICIENT ----- ± 18

MATERIAL SPECIFICATIONS

HARDWARE AND ANCHORS:
ANCHOR BOLTS & THREADED ROD: SHALL BE IN ACCORDANCE WITH ASTM A 307 OR ASTM F 1554 GRADE 36.
WASHERS: SHALL BE IN ACCORDANCE WITH ASTM A500 (GRADE B).
NUTS: SHALL BE IN ACCORDANCE WITH ASTM A 563 GRADE A HEX.
METAL CONNECTORS: ALL METAL CONNECTORS WHICH ARE EXPOSED TO EXTERIOR SHALL BE GALVANIZED.
RETROFIT REBAR/ROD INSTALLATION: EMBEDMENT OF RODS OR REBAR DOWELS SHALL BE 12 BAR DIAMETER MINIMUM. HOLES SHALL BE 1/4" LARGER THAN REBAR SIX AND 1/4" LARGER THAN THREADED ROD SIZE. (U.O.N.)
ANCHORING ADHESIVE: SHALL BE ONE OF THE FOLLOWING PRODUCTS (QUAL CARTRIDGE INSTALLATION ONLY):
EPOXY: ITW RED HEAD X7
REINFORCING STEEL: SHALL BE ASTM A615, GRADE 60.
STRUCTURAL STEEL: SHALL BE ASTM A992, GRADE 50.
WELDED WIRE FABRIC (WWF): SHALL BE ASTM A185.
LAMINATED VENEER LUMBER (LVL): ALL LAMINATED VENEER LUMBER SHALL MEET OR EXCEED THE FOLLOWING DESIGN PROPERTIES – ELASTIC MODULUS (E), 300ksi; BENDING STRESS (Fb) 2800psi

COMPONENTS & CLADDING ALLOWABLE DESIGN PRESSURES			
TRIBUTARY AREA (sf)	INTERIOR ZONE (PSF)	EDGE STRIP (PSF): 'a' = 4'-6"	GARAGE DOOR PRESSURES (PSF)
10	+25.6 -27.7	+25.6 -34.2	1 CAR GARAGE DOOR (8'x7') +22.9 2 CAR GARAGE DOOR (16'x7') +21.8
50	+22.9 -25.0	+22.9 -28.8	
100	+21.8 -23.9	+21.8 -26.6	

- THE VALUES ABOVE ARE ALLOWABLE WIND PRESSURE VALUES (ASD). THE ABOVE WIND PRESSURES HAVE BEEN REDUCED BY 0.60 AS PERMITTED BY THE ALLOWABLE STRESS DESIGN METHODOLOGY. NO FURTHER REDUCTION SHALL BE PERMITTED
- COMPONENT & CLADDING WALL ELEMENTS SHALL BE DESIGNED FOR BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE ABOVE.
- LINEAR INTERPOLATION IS PERMISSIBLE.
- PLUS = PRESSURE AND MINUS = SUCTION.
- DESIGN OF WINDOWS/DOORS FASTENING TO THE WALL FRAMING IS THE RESPONSIBILITY OF THE WINDOW/DOOR MANUF./SUPPLIER & SHALL MEET THE ABOVE NOTED POSITIVE AND NEGATIVE PRESSURES.



[NOT ACTUAL PLAN]

MEANS AND METHODS:
THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES; FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE FOR ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
LIMITS OF STRUCTURAL ENGINEERING DESIGN RESPONSIBILITIES:
THE ITEMS SPECIFICALLY DESIGNED BY THE STRUCTURAL ENGINEER ARE LIMITED TO THE FOLLOWING: CONTINUOUS LOAD PATH FOR WIND UPLIFT, WOOD PANEL SHEARWALLS, WALL FRAMING AND REQUIRED SHEATHING AND HEADERS DIRECTLY SUPPORTING ROOF FRAMING. ITEMS NOT DESIGNED: PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES, FLOOR FRAMING NOT SPECIFICALLY ADDRESSED, TRUSS-TO-TRUSS CONNECTION, AND ANY ARCHITECTURAL, MECHANICAL OR ELECTRICAL SYSTEM.

SCOPE OF SERVICE

GENERAL NOTES & CONSTRUCTION SPECIFICATIONS

FLOOR SHEATHING SPECIFICATIONS
23/32" T&G OSB OR PLYWOOD SHEATHING, GLUE AND NAIL WITH 10d COMMON @ 6" O.C. EDGE & FIELD

ROOF SHEATHING SPECIFICATIONS:
SHINGLE – MIN. 15/32", 32/16, APA RATED OSB OR PLYWOOD SHEATHING, NAILED W/ 0.11x2 1/2" RING SHANK NAILS @ 6" O.C. EDGE & 6" O.C. FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).
TILE – MIN. 15/32" 32/16, APA RATED PLYWOOD SHEATHING, NAILED W/ 0.11x2 1/2" RING SHANK @ 6" O.C. EDGE & 6" O.C. FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).
METAL – MIN. 1/2", 24/16, APA RATED PLYWOOD SHEATHING, NAILED W/ 0.11x2 1/2" RING SHANK NAILS @ 6" O.C. EDGE & 6" O.C. FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).

WALL SHEATHING SPECIFICATIONS:
FLEXIBLE FINISH – MIN. 7/8", 24/16, APA RATED OSB OR PLYWOOD SHEATHING, FASTENED W/ 8d @ 6" O.C. EDGE AND 6" O.C. FIELD. SHEATHING SHALL EXTEND FULL HEIGHT FROM BOTTOM PLATE TO UPPER TOP PLATE. FLEXIBLE FINISH WALLS INCLUDE: WOOD, CEMENT, OR VINYL SIDING, HARDY PANEL & BRICK. ALL OTHER WALL SHALL BE CONSIDERED BRITTLE FINISH.

STUCCO FINISH: – MIN. 7/8", 24/16, APA RATED OSB OR PLYWOOD SHEATHING, FASTENED W/ 8d @ 6" O.C. EDGE AND 6" O.C. FIELD. SHEATHING SHALL ORIENTED WITH THE LONG DIMENSION PERPENDICULAR TO THE STUDS. CONTRACTOR MAY USE 3/8" STRUCTURAL 1" GAUGE SHEATHING OR 1/2" OSB SHEATHING AND ORIENT THE PANELS VERTICALLY.

MASONRY SPECIFICATIONS:
MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 530-05, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 530.1-05. GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 WITH A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 2000 psi PER ASTM C1019. GROUT SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF 3/8" PLACED AT AN 8" TO 11" SLUMP. MORTAR SHALL CONFORM TO ASTM C270 AND TYPE M OR S. TYPE N MORTAR MAY BE USED IN BRICK VENEER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL FLASHING.

CONCRETE MASONRY UNITS (CMU):
CMU SHALL BE IN ACCORDANCE WITH ASTM C90-75, HOLLOW LOAD-BEARING (CMU), TYPE 1, GRADE N-1, NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 psi (f'm=1500 psi). GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT IN 5'-0" MAXIMUM LIFTS PROVIDE CLEANOUTS PER ACI 530.1-02 IN THE BOTTOM OF COURSE OF MASONRY WHEN THE WALL HEIGHT EXCEEDS 5'-0".

MASONRY STEM WALLS: ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90E, E GRADE N-1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE "S" MORTAR. WALL COURSING SHALL BE RUNNING BONDS, STACK BOND SHALL NOT BE USED. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROOK CONCRETE GROUT. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE 48 BAR DIAMETERS. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT WITH #4 @ 4'-0" O.C. MAX. AND AT EACH CORNER AND WALL END, AND AT EACH CORNER AND WALL INTERSECTIONS, PROVIDE CONTINUITY OF REINFORCING BY INSTALLING CORNER BARS, MINIMUM OF 40 BAR DIAMETERS INTO EACH ELEMENT. AT STEM WALL CONSTRUCTED OF 5 OR MORE COURSES, PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY, (EVERY OTHER COURSE), AND VERTICAL REINFORCING SHALL BE INCREASED AS NOTED ON 1/S1.0. UNLESS NOTED OTHERWISE, LAP JOINT REINFORCING SHALL BE A MINIMUM OF 6".

CONCRETE SPECIFICATIONS:
ALL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318-08, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 301. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS CONCRETE AT GARAGE AND PORCH SLABS SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI.

FOOTING AND FOUNDATIONS:
FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES. FOOTING HAVE BEEN DESIGNED WITH A SOIL BEARING (DESIGN MAXIMUM) OF 2000 PSF. A SOILS INVESTIGATION REPORT IS RECOMMENDED TO VERIFY SUITABLE SUBSURFACE CONDITIONS. IF THE FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED OR UNSTABLE SOIL, THE ENGINEER SHALL BE NOTIFIED. SOIL SHALL BE FREE OF ORGANIC MATERIAL AND COHESIVE (CLAY) SOILS. SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN. OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557.

FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION, FOR GENERAL FEATURES, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC., SEE ARCHITECTURAL PLANS. DO NOT SCALE FOOTING DIMENSIONS AND LOCATION FROM THE FOUNDATION PLAN SHOWN ON S1.0. DO NOT DETERMINE FOOTING LOCATION BASED ON EITHER THE ARCHITECTURAL PLAN OR FRAMING PLAN, BUT BY DIMENSIONS PROVIDED ON FOUNDATION PLAN. IF FOOTING SIZE OR LOCATION IS NOT DETERMINED ON PLAN THEN CONTACT ENGINEER OF RECORD (EOR)

UNLESS OTHERWISE NOTED ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" IN FOOTINGS AND MESH SHALL BE CENTERED IN SLAB ON GRADE. IN ALL CONTINUOUS FOOTINGS PROVIDE #3 @ 48" O.C. OR ROD CHAIRS. PROVIDE CONTINUITY OF REINFORCING AT INTERSECTIONS OF PERPENDICULAR CONCRETE ELEMENTS BY INSTALLING CORNER BARS, MINIMUM OF 40 BAR DIAMETERS INTO EACH ELEMENT. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE 48 BAR DIAMETERS

CONCRETE SLABS ON GRADE:
SHALL BE INSTALLED OVER MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" AND SEALED OVER CLEAN, COMPACTED EARTH OR FILL WITH APPROVED CHEMICAL SOIL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES. SAWCUTS: FOR CONTROLLED CRACKING CUT A 1" SAWCUT INTO SLAB IN A 12"x12" GRID WITHIN 12 HOURS OF CONCRETE PLACEMENT, PROVIDE SAWCUTS THROUGH OUT SLAB CALL FOR ALTERNATIVE METHODS.

WOOD FRAMING SPECIFICATIONS:
ALL WOOD FRAMING HAS BEEN DESIGNED IN ACCORDANCE WITH NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION, LATEST EDITION. ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL, SHALL BE PRESSURE-TREATED, IF, ACO OR NON-DOT BORATE PRESERVATIVE TREATMENT IS USED, ALL ATTACHED FASTENERS SHALL BE HOT DIPPED GALVANIZED, IF ACZA PRESERVATIVE IS USED, ALL ATTACHED FASTENERS SHALL BE STAINLESS STEEL

PRE-ENGINEERED WOOD TRUSSES:
SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE WHERE PROJECT IS BEING BUILT AND SHALL COMPLY WITH NFPA, TPI, AND AITC 100. CONTRACTOR SHALL VERIFY THAT ADEQUATE TRUSS BEARING IS INSTALLED AT ALL TRUSSES AS INDICATED IN THE TRUSS SHOP DRAWINGS. ALL TRUSS-TO-TRUSS CONNECTIONS AND TRUSS PROFILES ARE THE RESPONSIBILITY OF THE DELEGATED TRUSS ENGINEER. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY" AND RECOMMENDATION FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91." AT MULTIPLE STRAP CONNECTIONS, SPREAD STRAPS TO AVOID NAILING CONFLICTS THROUGH TRUSS. WHEN USING (2) STRAPS ON SINGLE PLY TRUSSES, PLACE STRAPS DIAGONALLY ACROSS DBL. TOP PLATE FROM EA. OTHER.

ROOF COVERING SPECIFICATIONS:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ROOF COVERING SYSTEM. ASPHALT SHINGS SHALL COMPLY WITH ASTM D3161 AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS. CLAY AND TILE ROOFS SHALL BE INSTALLED PER THE "CONCRETE AND CLAY ROOF TILE INSTALLATION MANUAL" AND THE MANUFACTURER'S REQUIREMENTS. STANDING SEAM METAL ROOFS SHALL COMPLY WITH ASTM E1514 AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL METAL FLASHING AND VALLEY MATERIALS.

WATERPROOFING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN/INSTALLATION OF ALL WATER PROOFING.

WOOD FASTENING SCHEDULE			BRICK NOTES / LINTEL SCHD			PLAN LEGEND AND ABBREVIATIONS		
MEMBERS	CONNECTION TYPE	FASTENER	LINTEL DIMENSION	MIN. BRG.	MAX. SPAN	INTERIOR LOAD BEARING WALL	BUILT-UP POST IN THE WALL	
TOP PLATE TO TOP PLATE	FACE NAIL	2-GUN NAILS @ 12" STAG.	13 1/2"x3 1/2"x 1/4"	4"	6'-0"	DESIGNATES SHEARWALL. THE HIDDEN LINE DESIGNATES SIDE OF WALL. THE SHEARWALL SHEATHING TO BE APPLIED. 8d @ 3/8"	DESIGNATES 8d COMMONS @ 3" O.C. EDGE & 6" O.C. "IN THE FIELD"	
TOP PLATE, LAPS/INTERSECTION	FACE NAIL	(2-16d) 3-GUN NAILS	14x3 1/2"x 1/4"	6"	8'-0"			
DBL. TOP PLATE TO STUD	FACE NAIL	(2-16d) 3-GUN NAILS	15x3 1/2"x 1/4"	6"	10'-0"			
RIM JOIST TO TOP PLATE	TOE NAIL	(8d @ 6") 3-GUN NAIL @ 6"	16x3 1/2"x 1/4"	6"	12'-0"			
CEILING JOIST TO TOP PLATE	TOE NAIL	(3-8d) 5-GUN NAILS	17x3 1/2"x 1/4"	6"	16'-0"			
CEILING JOIST, OVER PARTITIONS	FACE NAIL	(3-16d) 4-GUN NAILS						
CEILING JOIST TO ROOF RAFTER	FACE NAIL	(6-16d) 3-GUN NAILS						
JOIST/TRUSS TO PLATE	TOE NAIL	(2-16d) 3-GUN NAILS						
RAFTER TO PLATE	TOE NAIL	(3-8d) 3-GUN NAILS						
JACK RAFTER TO HIP	TOE NAIL	(3-10d) 4-GUN NAILS						
ROOF RAFTER TO 2nd RIDGE BM.	TOE NAIL	(2-16d) 3-GUN NAILS						
CONT. HEADER, TWO PIECES	FACE NAIL	16d @ 16" O.C. @ EDGE						
CONT. HEADER TO STUD	TOE NAIL	(3-16d) 4-GUN NAILS						
STUD TO SOLE PLATE	TOE NAIL	(3-16d) 4-GUN NAILS						
SOLE PLATE TO JOIST/BLOCKING	FACE NAIL	(16d @ 16") 3-GUN NAIL @ 8"						

3"x0.131" = GUN NAILS
2"x0.113" = 6d
3"x0.148" = 10d
1 1/2"x0.148" = 10d x 1 1/2"

2"x0.113" = RINK SHANK
2 1/2"x0.131" = 8d
3 1/2"x0.162" = 16d
1 1/2"x0.131" = 8d x 1 1/2"

SECTION VIEW OF BRICK LINTEL

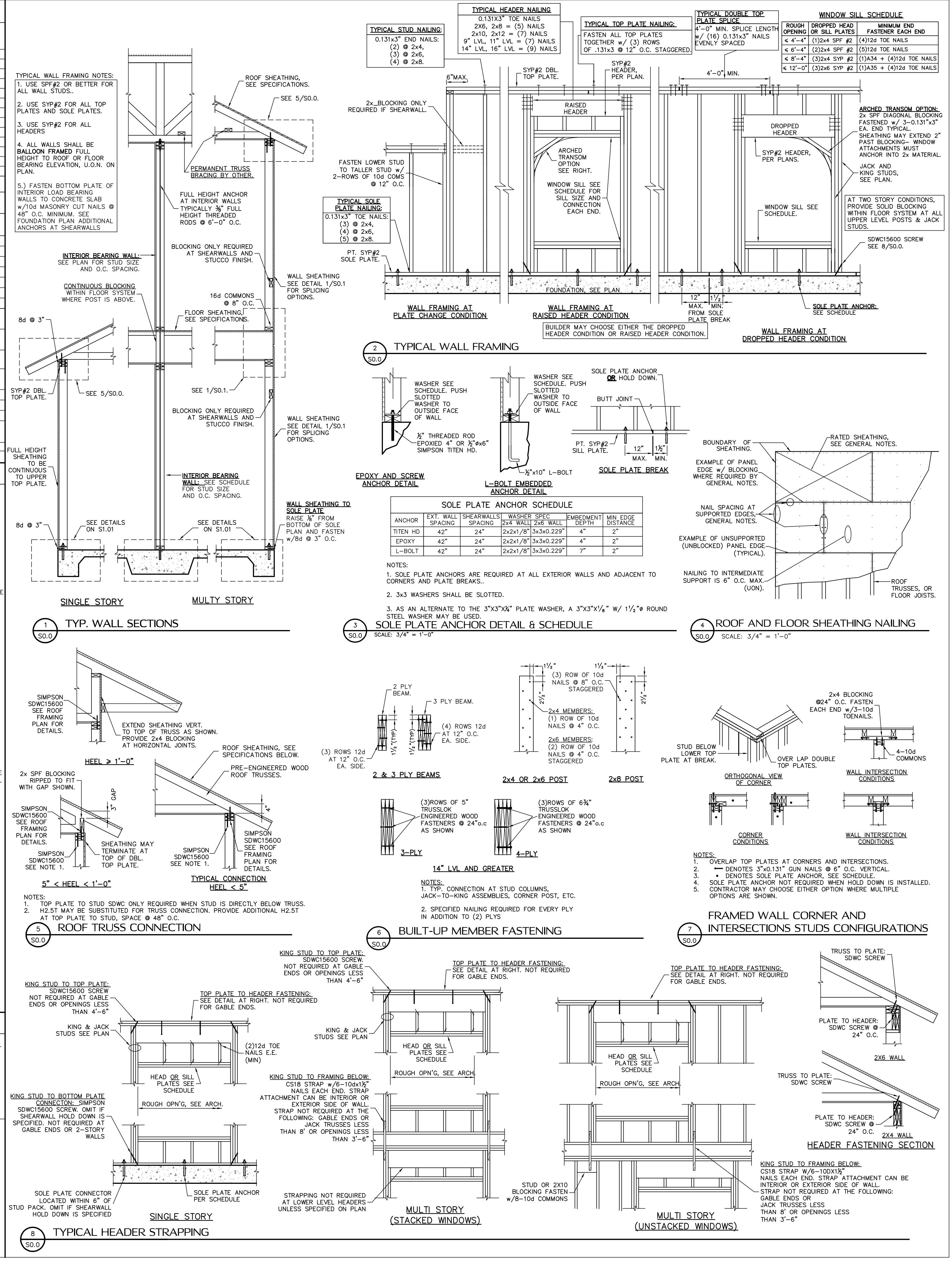
BRICK VENEER WEATHER BARRIER
LINTEL ATTACHMENT SEE NOTE 2
FLASHING
BRICK LINTEL, SEE SCHEDULE

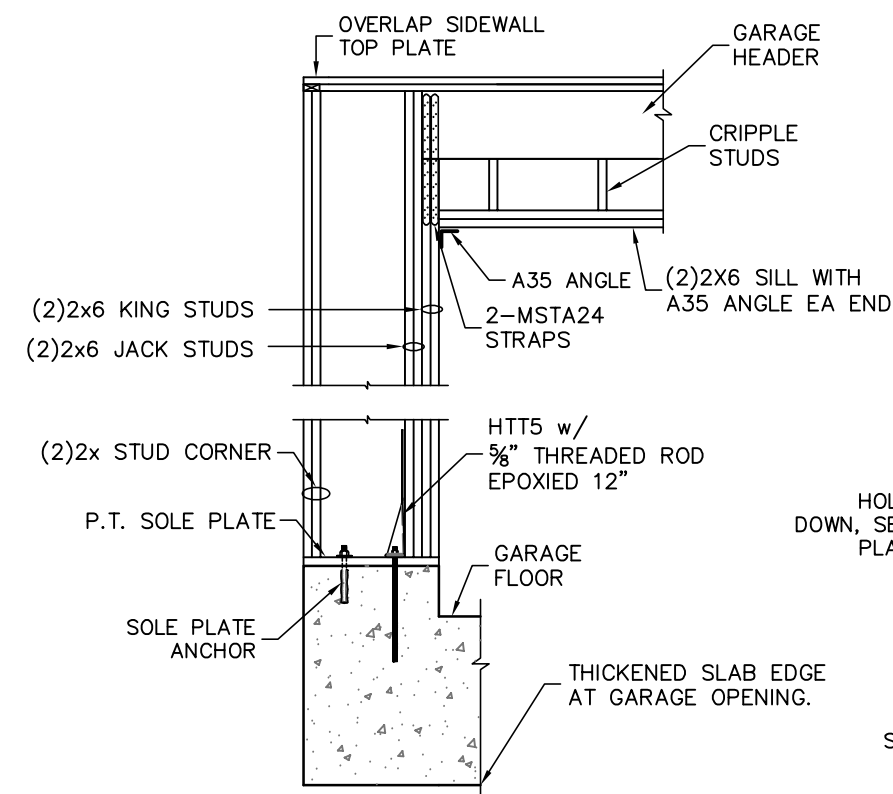
USP CONNECTORS

CONNECTOR	UPLIFT		FASTENERS	FL# CODE
	SYP	SPF		
USP A35	450	450	(9)10d x 1 1/2"	
USP RT7	585	495	(5)8d EA. END	
USP RT8A	775	650	(5)10d x 1 1/2" EA. END	
USP MTW12	1195	860	(7)10d x 1 1/2" EA. END	
USP HTW20	1450	1245	(12)10d x 1 1/2" EA. END	
USP MSTA24	1640	1455	(9)10d EA. END	
USP MSTA36	2085	2065	(13)10d EA. END	
USP LT20B	1105	1105	1/2" ROD TO FTG.	
USP JU528	1305	1305	(6)10d TO HEADER	
USP HTT16	4290	4290	3/4" ROD TO FTG.	
USP HTT22	5370	5370	3/4" ROD TO FTG.	
USP PAU44	2535		3/4" ROD W/ (12)16d	
USP PAU66	2535		3/4" ROD W/ (12)16d	
USP MSTA24	1545	1455	(5)1"x2"-1/4" TAPCONS	

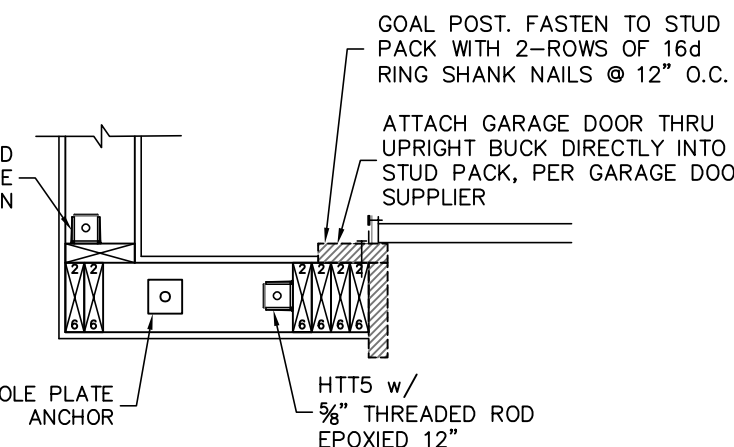
SIMPSON CONNECTORS

CONNECTOR	UPLIFT		FASTENERS	FL# CODE
	SYP	SPF		
A35	450	450	12-8d x 1 1/2"	10446.4
H2.5T	600	520	5-8d EA. END	11478.3
HTS16	1150	1085	16-10d EA. END	10456.6
MTS12	1000	860	7-10d x 1 1/2" EA. END	10456.3
HTS20	1450	1245	24-10d x 1 1/2" EA. END	13872.3
MSTA24	1765	1270	9-10d EA. END	13872.4
MSTA36	2050	1870	13-10d EA. END	13872.8
HTT4	3480	3080	18-16d TO TRUSS/BAM	11496.2
HTT5	5250	4670	1-3/4" ROD TO FTG.	11496.2
			32-16d TO TRUSS/BAM	
			1-3/4" ROD TO FTG.	
			6-10d TO HEADER	
			4-10d TO JOIST	
			14-16d TO HEADER	
			6-16d TO JOIST	
HLU10	905	785	1-1/2" ROD TO HEADER	10531.36
ABU44	2200		3/4" ROD EPOKIED 6" MIN	10849.6
ABU66	2300		3/4" ROD EPOKIED 6" MIN	10849.6
SET	N/A	N/A	SIMPSON EPOXY-TIE	11506.4
LT20B	1675	1675	10-16d TO STUD/BAM/POST	11496.3
LS1A12	805	695	10-10d	13872.5
CS16	1705	1705	13-8d	10852.1



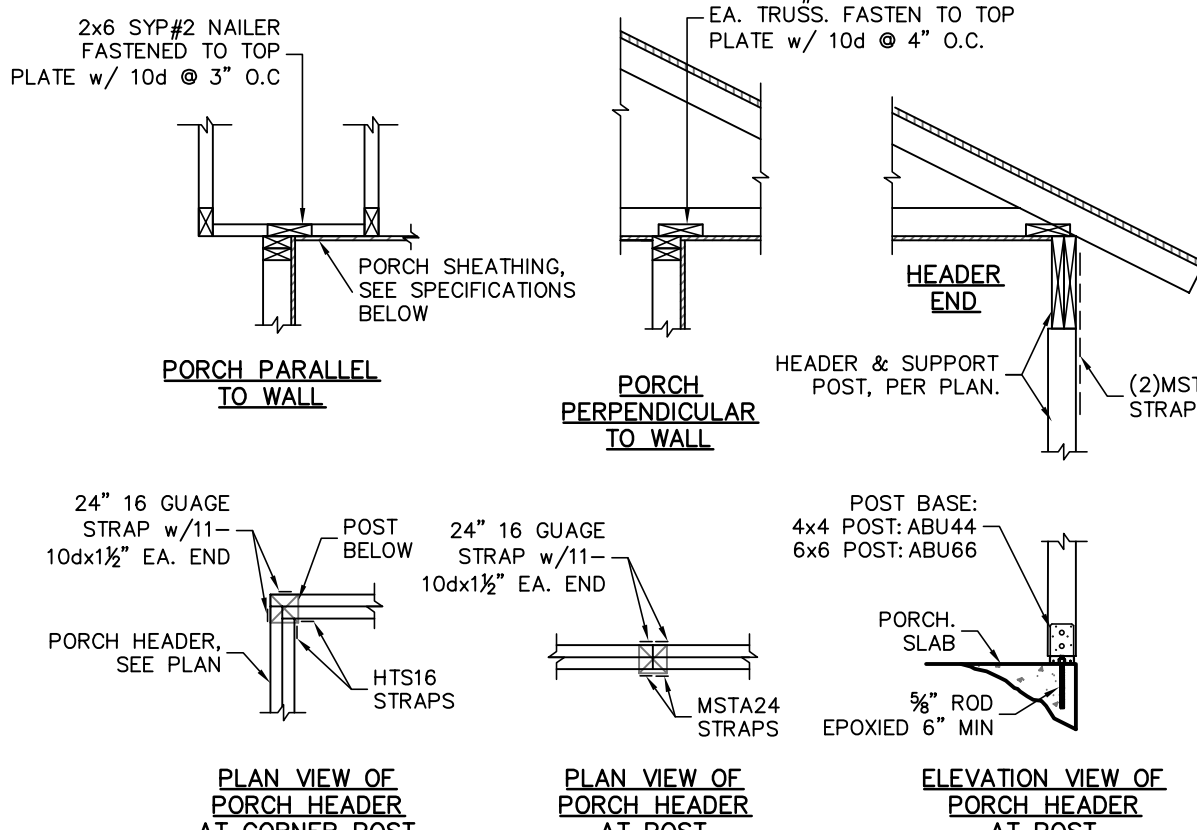


GARAGE WING WALL ELEVATION

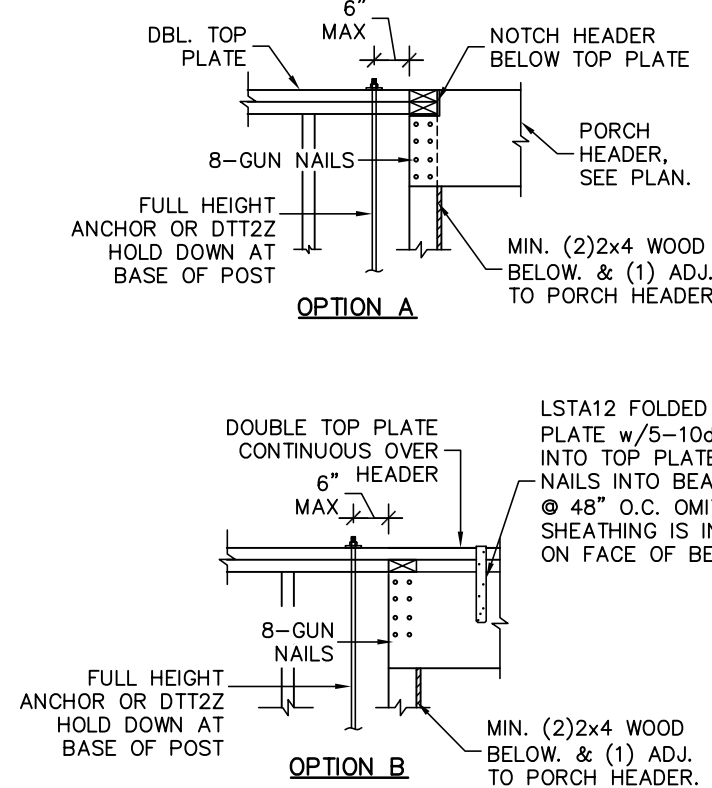


GARAGE WING WALL SECTION

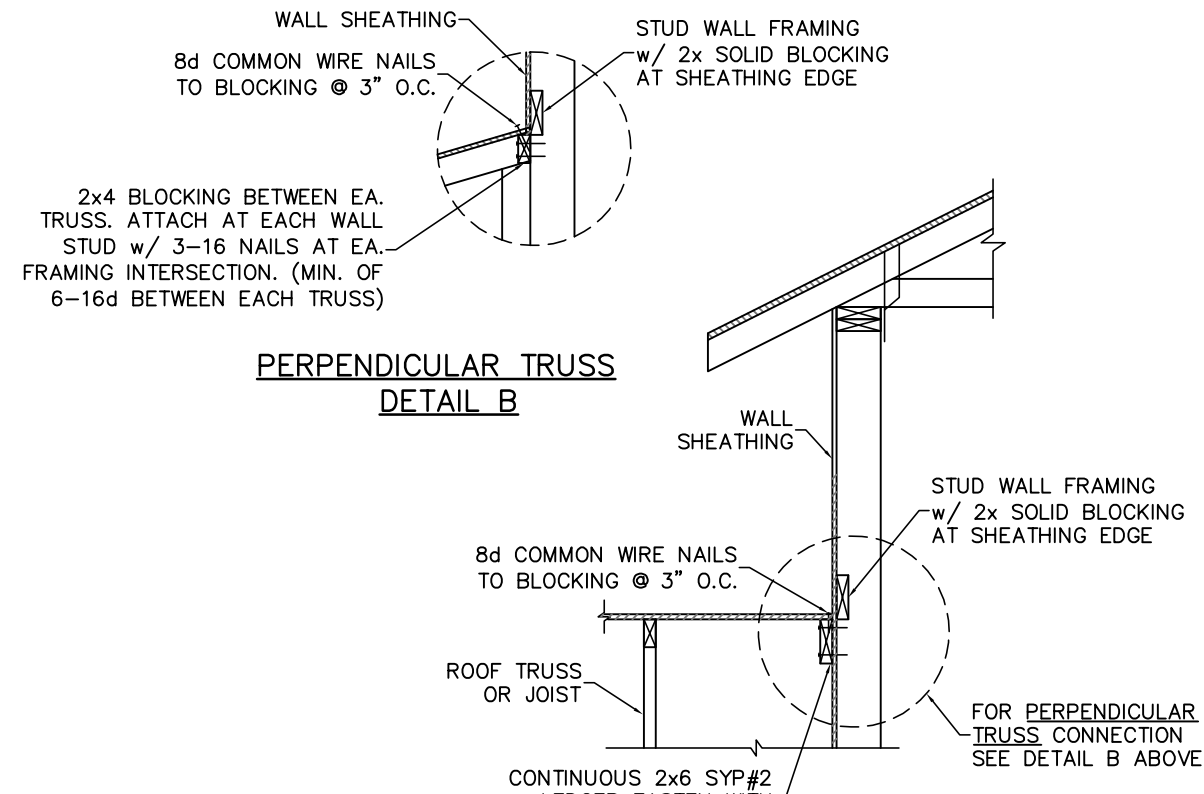
WHEN NOTED SO.1 GARAGE HEADER FRAMING
SCALE: N.T.S.



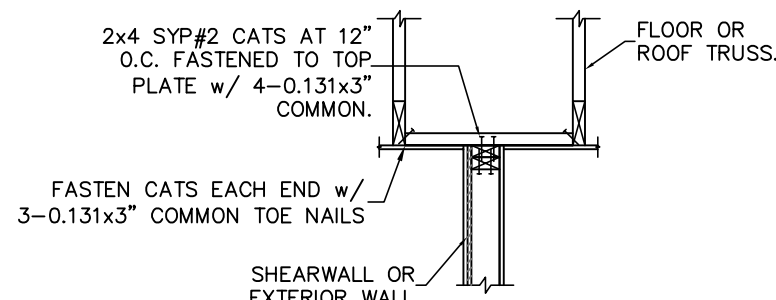
2
SO.1 TYPICAL PORCH FRAMING DETAILS
SCALE: N.T.S.



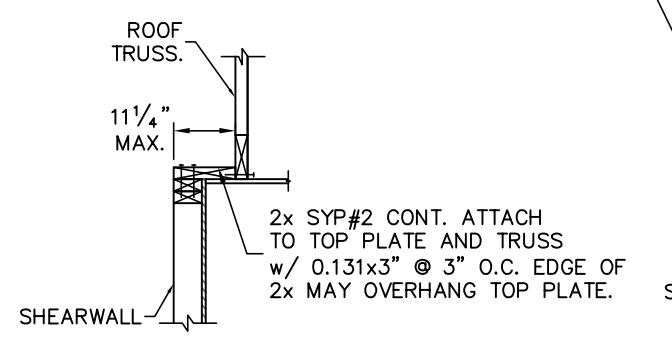
3
SO.1 TYPICAL PORCH BEAM CONNECTION
SCALE: N.T.S.



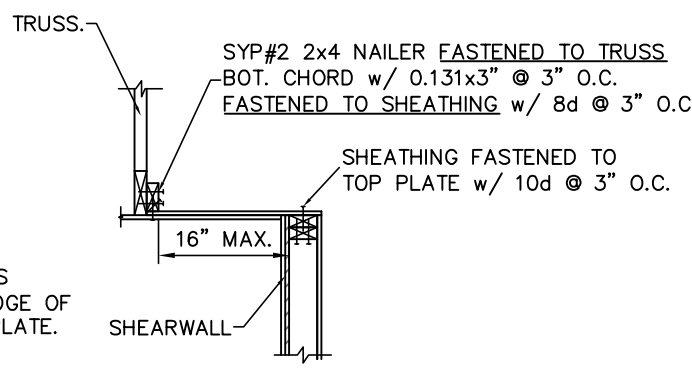
4
SO.1 WALL ADJ. TO ROOF CONNECTION
SEE CONSTRUCTION SPECIFICATIONS FOR ROOF AND WALL SHEATHING AND STUD FRAMING.



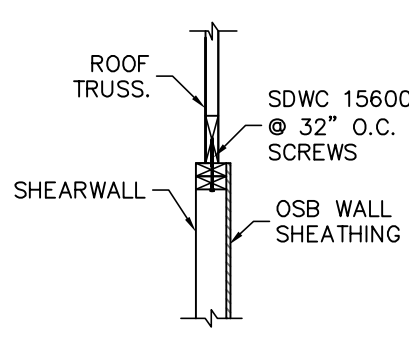
ALTERNATE A



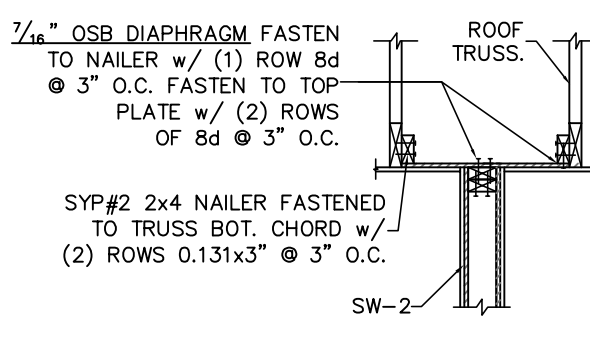
ALTERNATE B



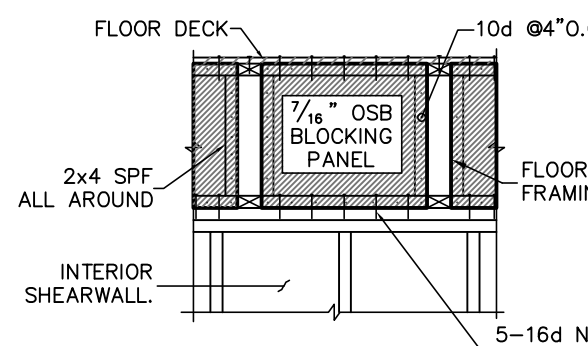
ALTERNATE C



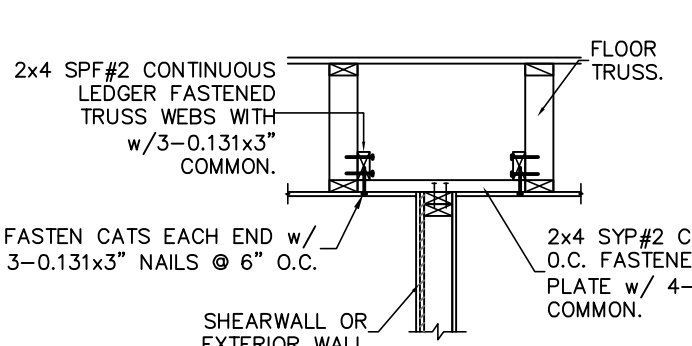
ALTERNATE D



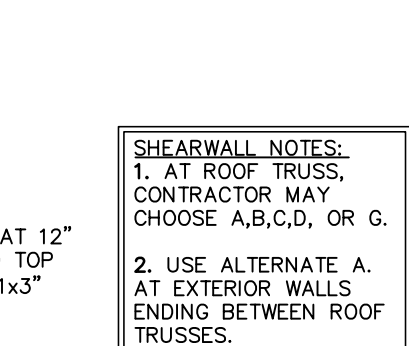
ALTERNATE E



ALTERNATE F



ALTERNATE G

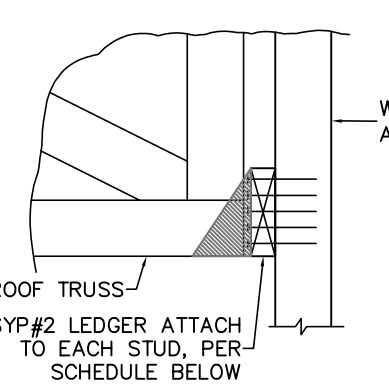


ALTERNATE H

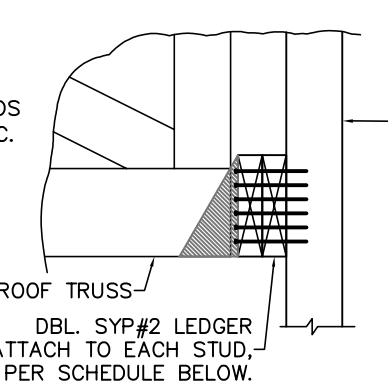
5
SO.1 SHEARWALL ATTACHMENT AT ROOF & FLOOR

6
SO.1 TYPICAL SHEARWALL ELEVATION
PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM AT SW END POSTS.

7
SO.1 HEADER TIE DOWN
THIS DETAIL ONLY APPLIES WHEN NOTED ON PLAN



A-SINGLE LEDGER

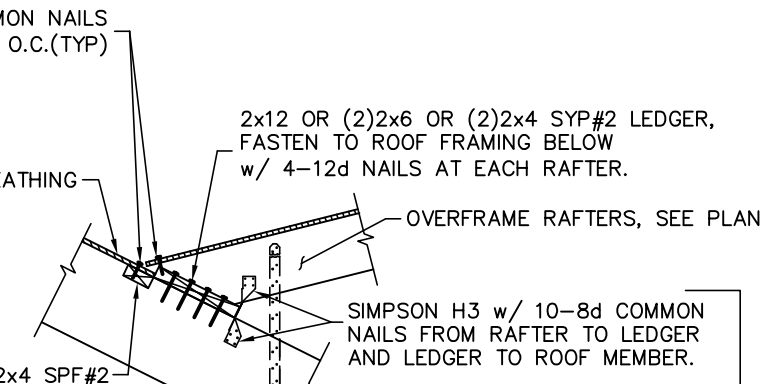


B-DOUBLE LEDGER

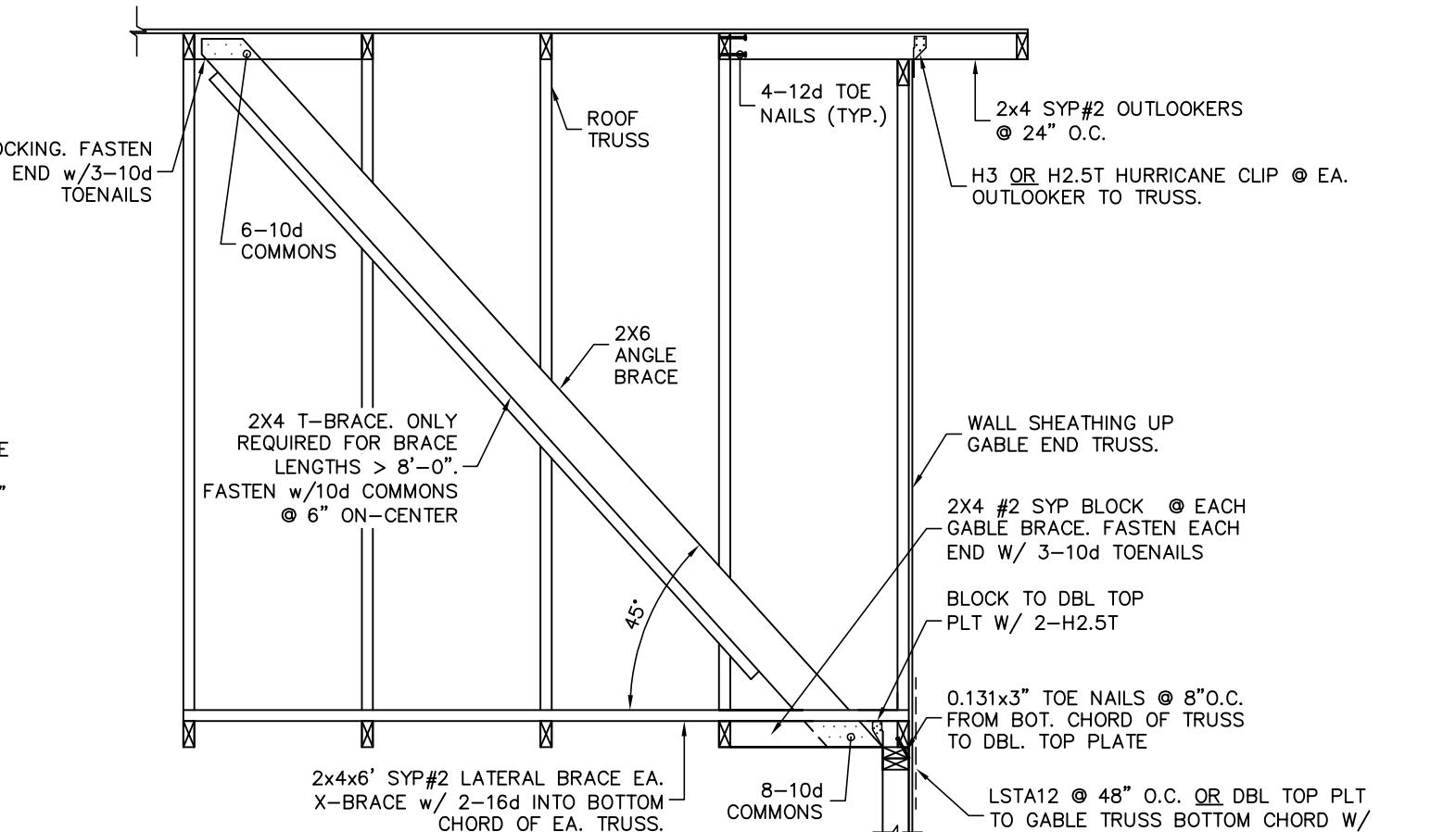
VERTICAL REACTION LEDGER SIZE & NAILING
0-775 2x6 w/ 5-0.131x3"
776-1250 2x8 w/ 8-0.131x3"
1251-1540 2x10 w/ 10-0.131x3"
1540-1850 2x12 w/ 12-0.131x3"

VERTICAL REACTION LEDGER SIZE & NAILING
1850-2345 2x8 w/ 6-1/4"x6" SDS SCREWS
2346-3125 2x12 w/ 8-1/4"x6" SDS SCREWS

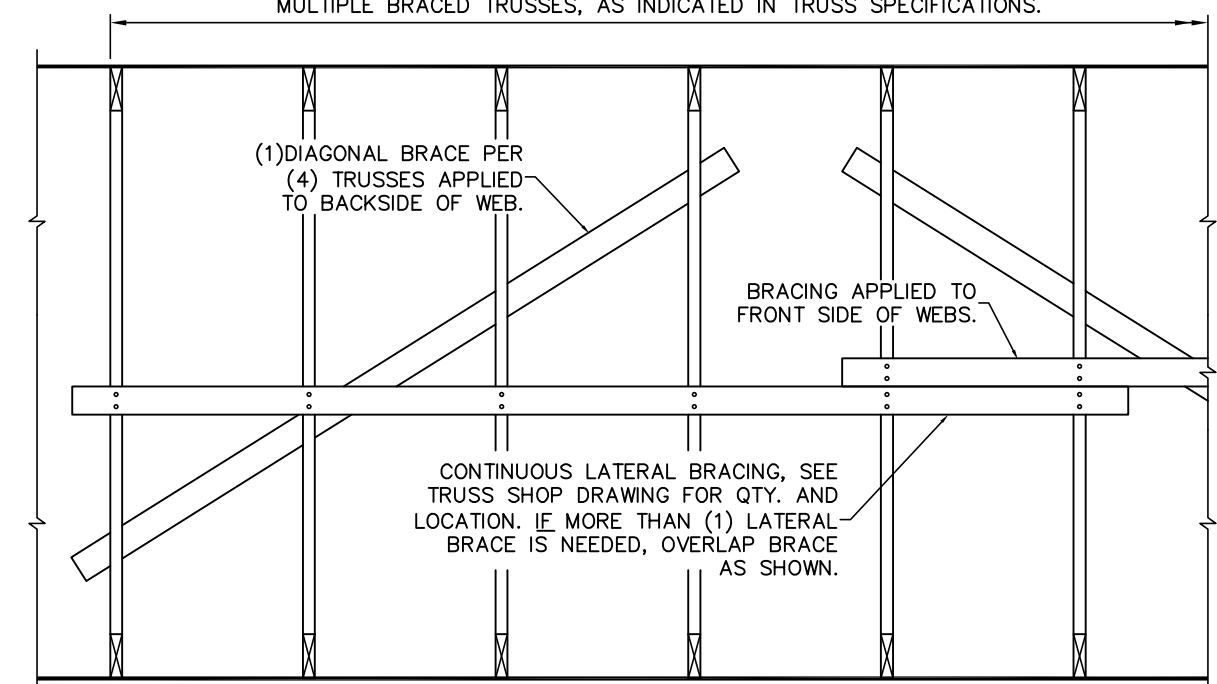
LEDGER A NOTES: WHERE A LEDGER IS INDICATED ON PLAN AND NO TRUSSES BEAR AT THAT LOCATION, THE LEDGER IS BEING USED TO ATTACH THE ADJACENT ROOF DECK. USE A 2x6 LEDGER PER NAILING SCHEDULE ABOVE. ATTACH ROOF DECK PER GENERAL NOTES.



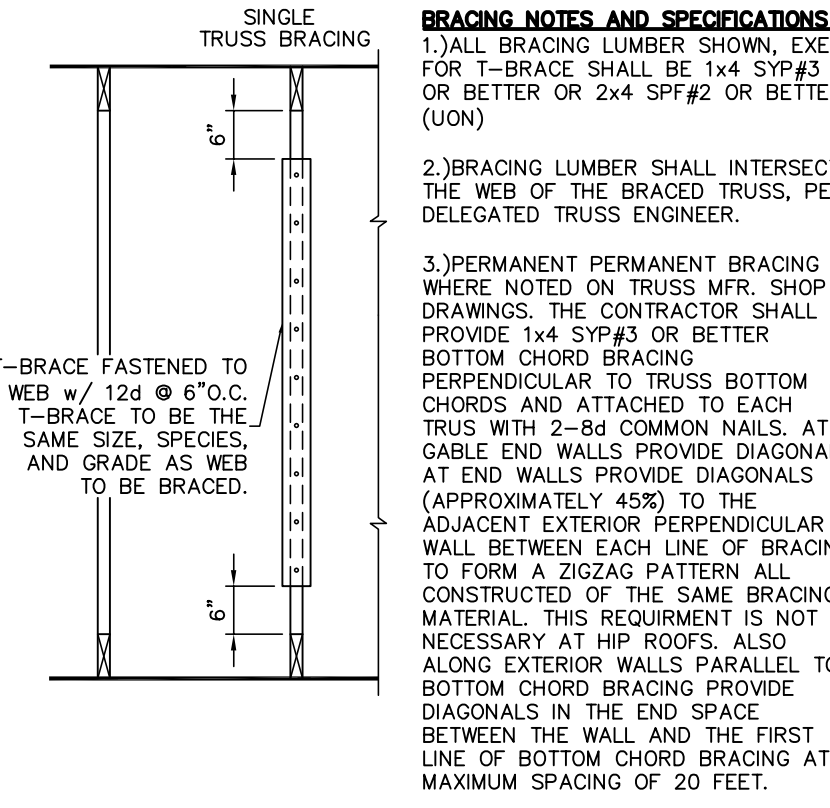
9
SO.1 DECK LEDGER AT OVERFRAME RAFTERS
USE THIS DETAIL TO FASTEN OVERFRAMED ROOFS, VALLEYS, ETC.



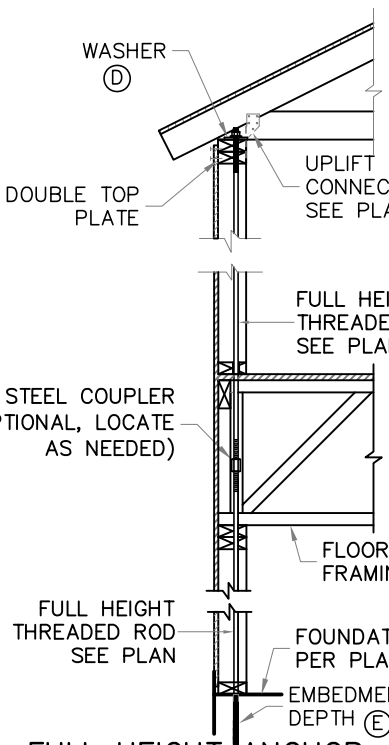
10
SO.1 GABLE END BRACING
NOTES: 1. SPACE GABLE END BRACING @ 4'-6" MAX. 2. ALL MATERIAL TO BE SYP#2



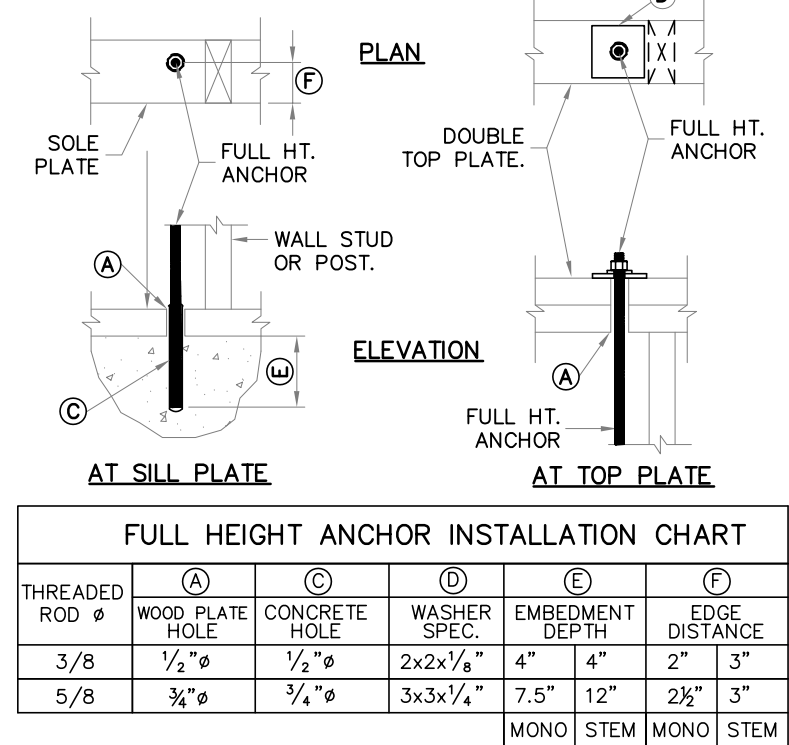
11
SO.1 PERMANENT TRUSS BRACING
SCALE: 3/4" = 1'-0"



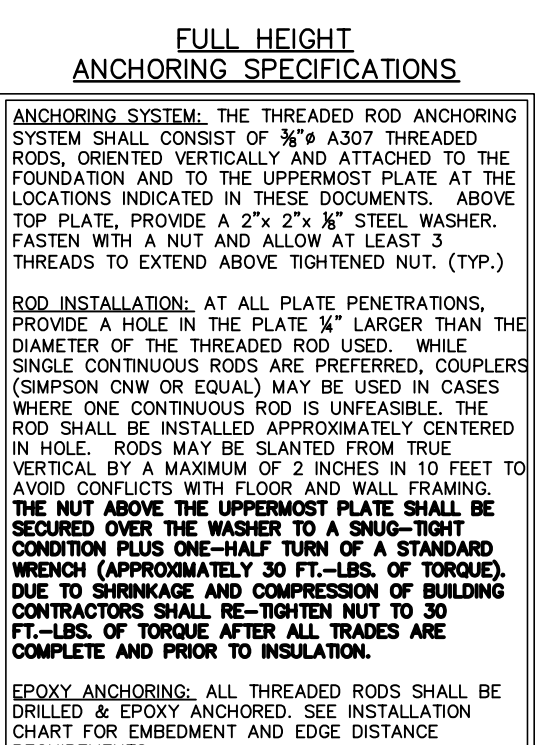
8
SO.1 LEDGER CONNECTION
TRUSS TO LEDGER CONNECTION BY TRUSS ENGINEER. NOT SHOWN FOR CLARITY



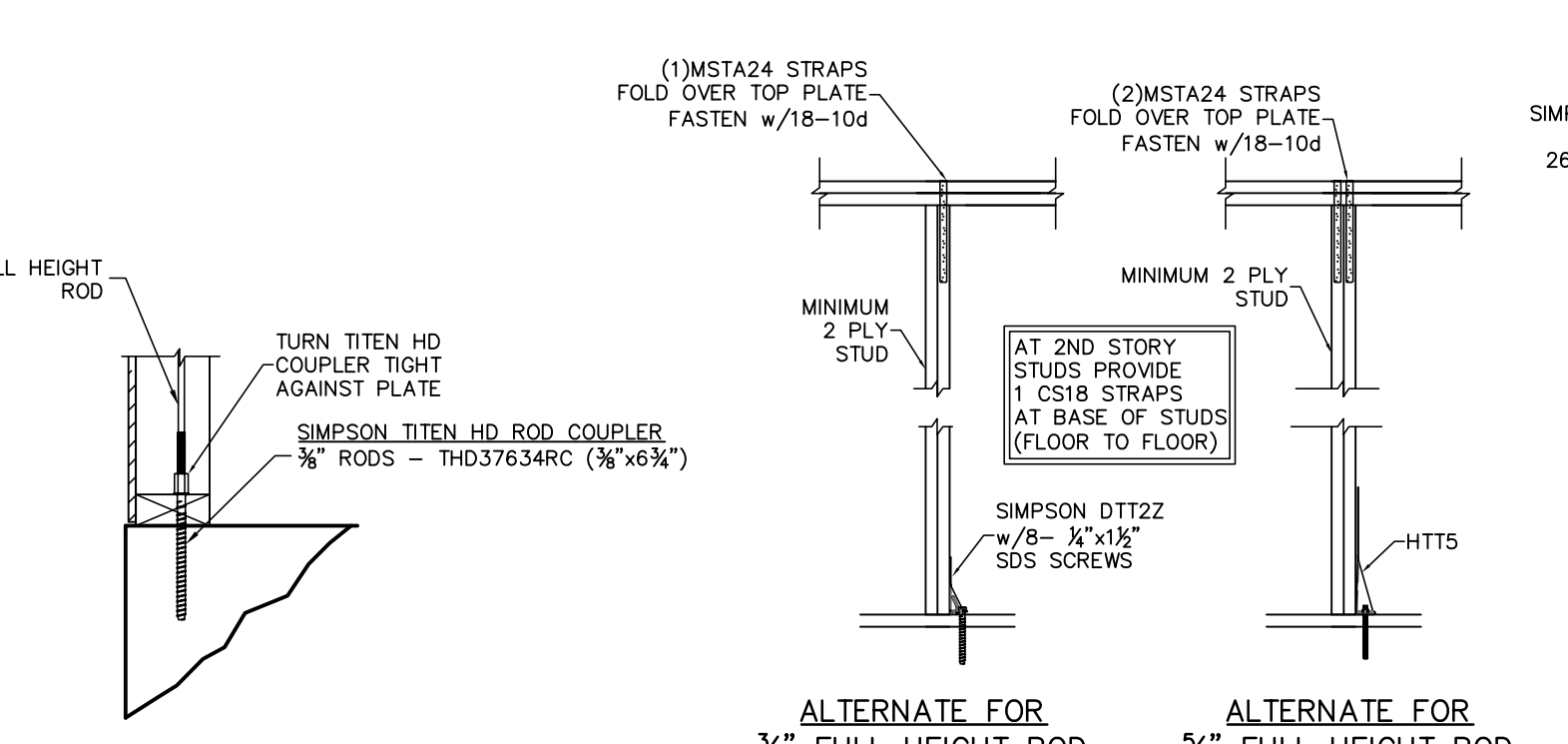
FULL HEIGHT ANCHOR WALL SECTION



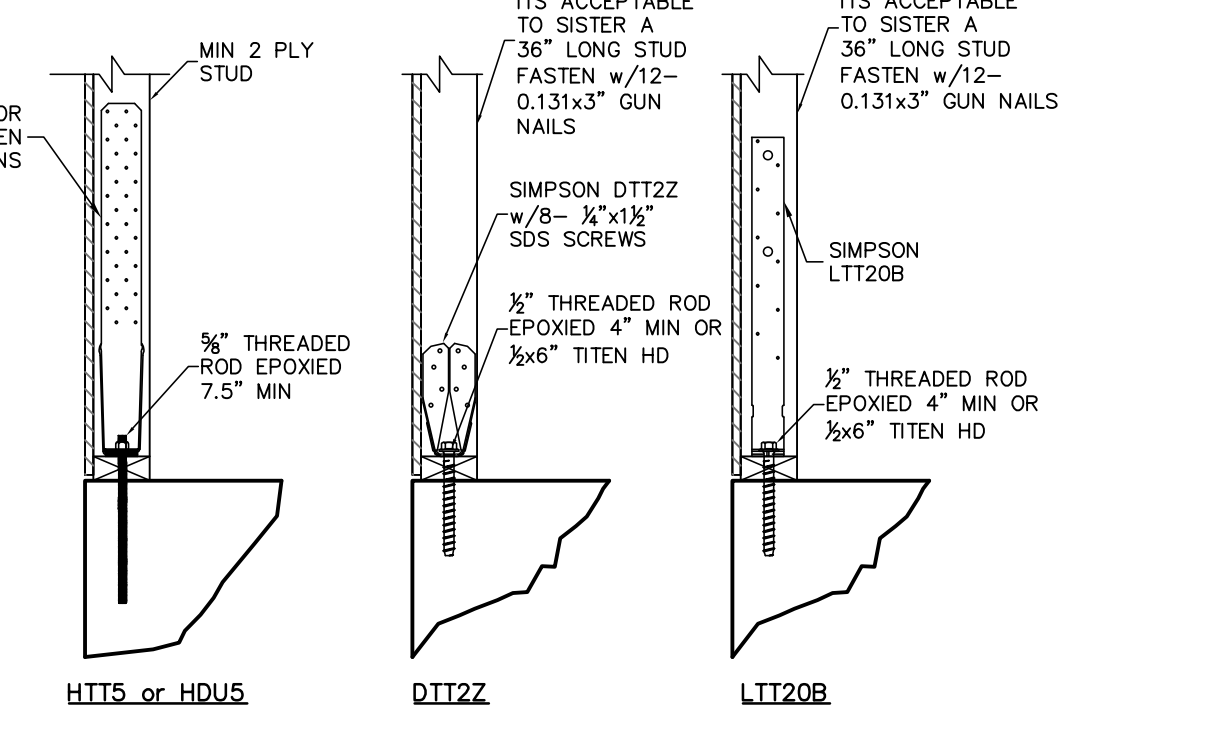
FULL HEIGHT ANCHOR INSTALLATION CHART



3/8" FULL HEIGHT ROD ALTERNATE ATTACHMENT



1/2" FULL HEIGHT THREADED ROD ALTERNATE



15
SO.1 HOLD DOWN ATTACHMENT DETAIL

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PLAN NAME
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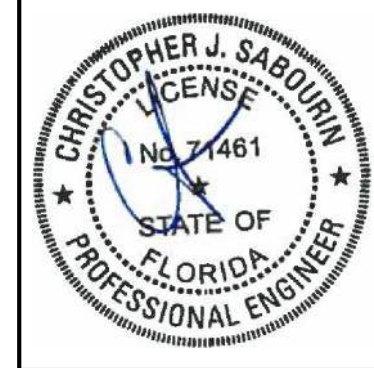
STRUCTURAL ENGINEERING FOR
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FIELD ALTERATION
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TYPICAL
FRAMING
DETAILS

SHEET
SO.1
SHEET 2 OF 7



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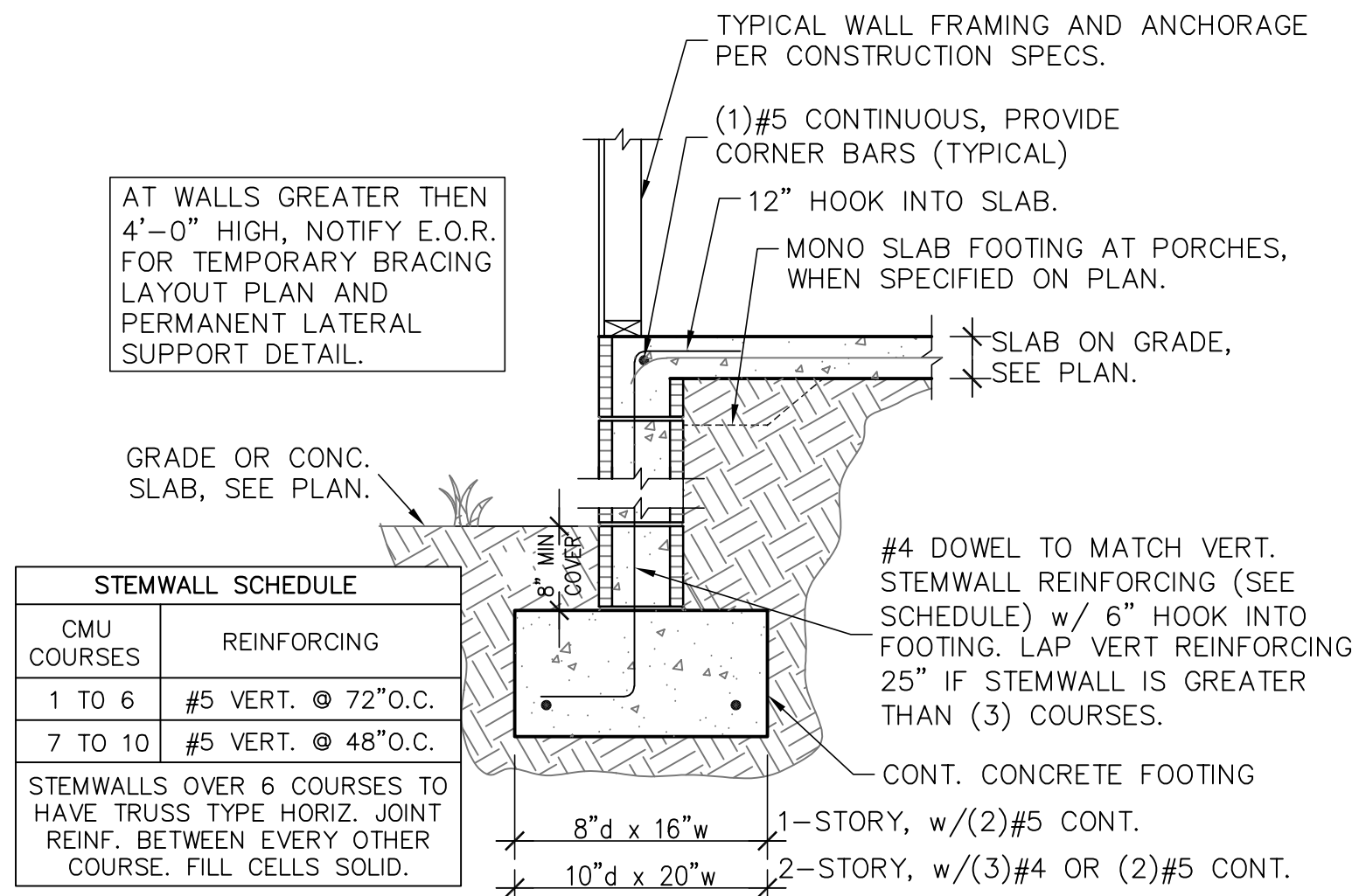
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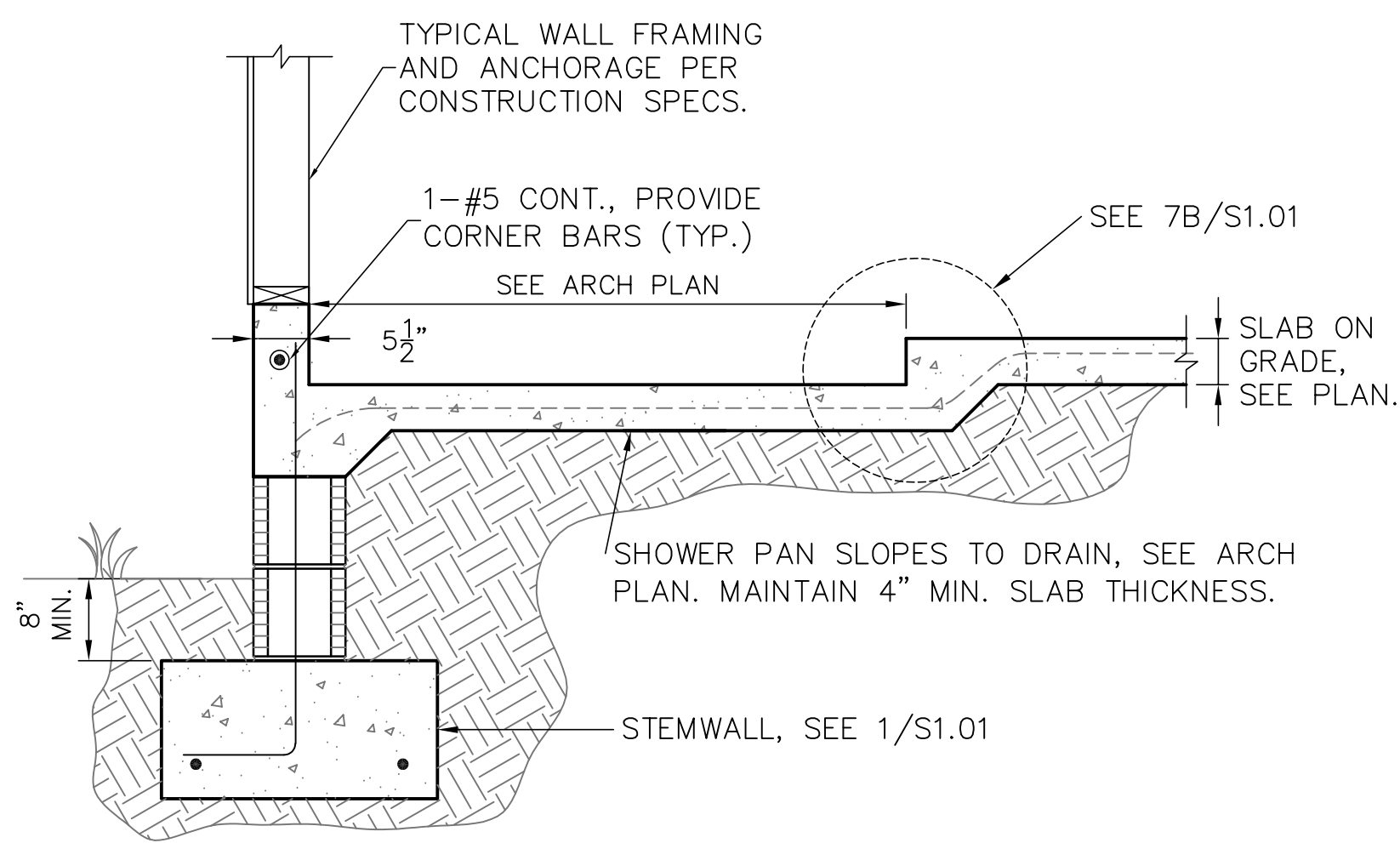
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FOUNDATION
DETAILS

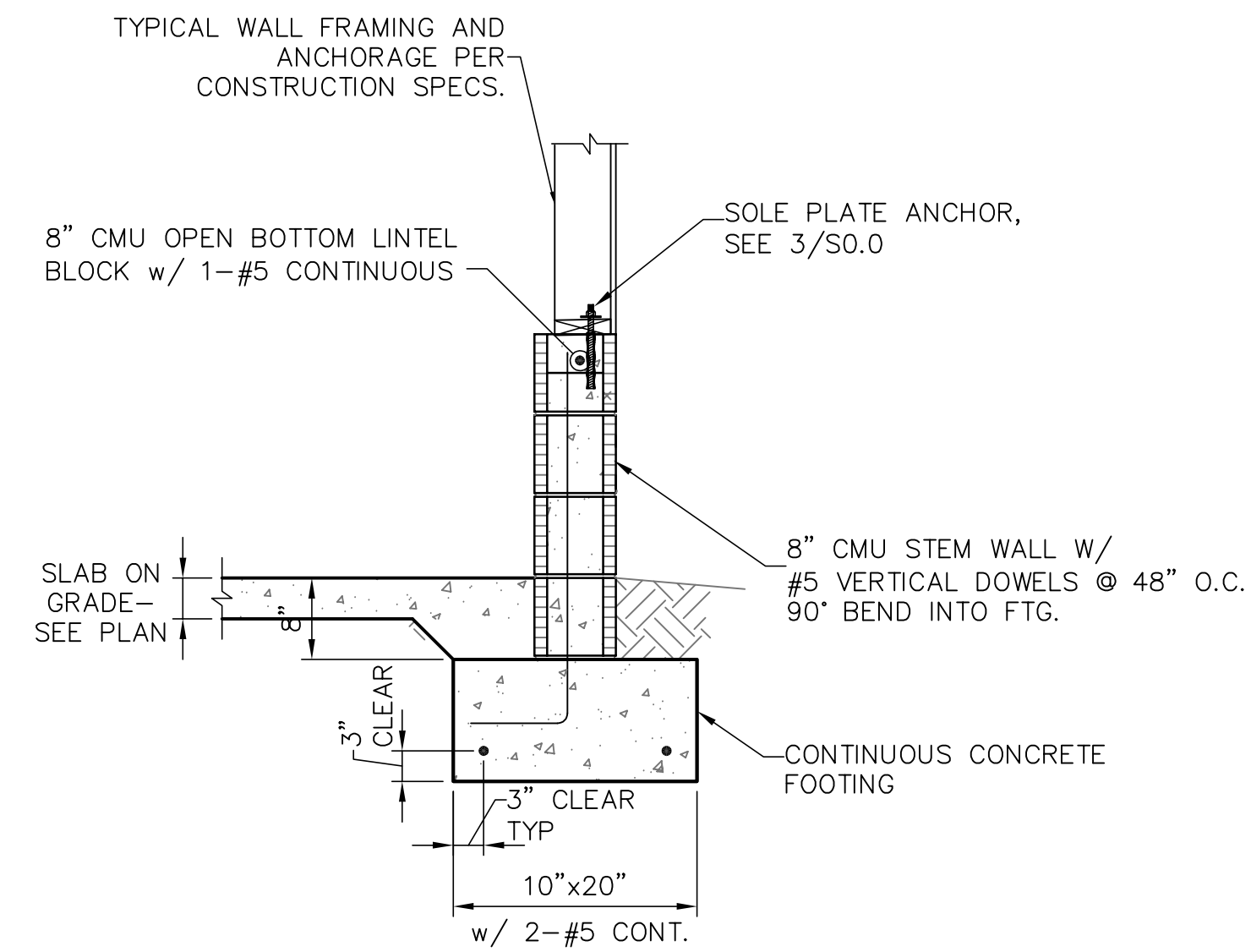
SHEET
S1.01
SHEET 4 OF 7



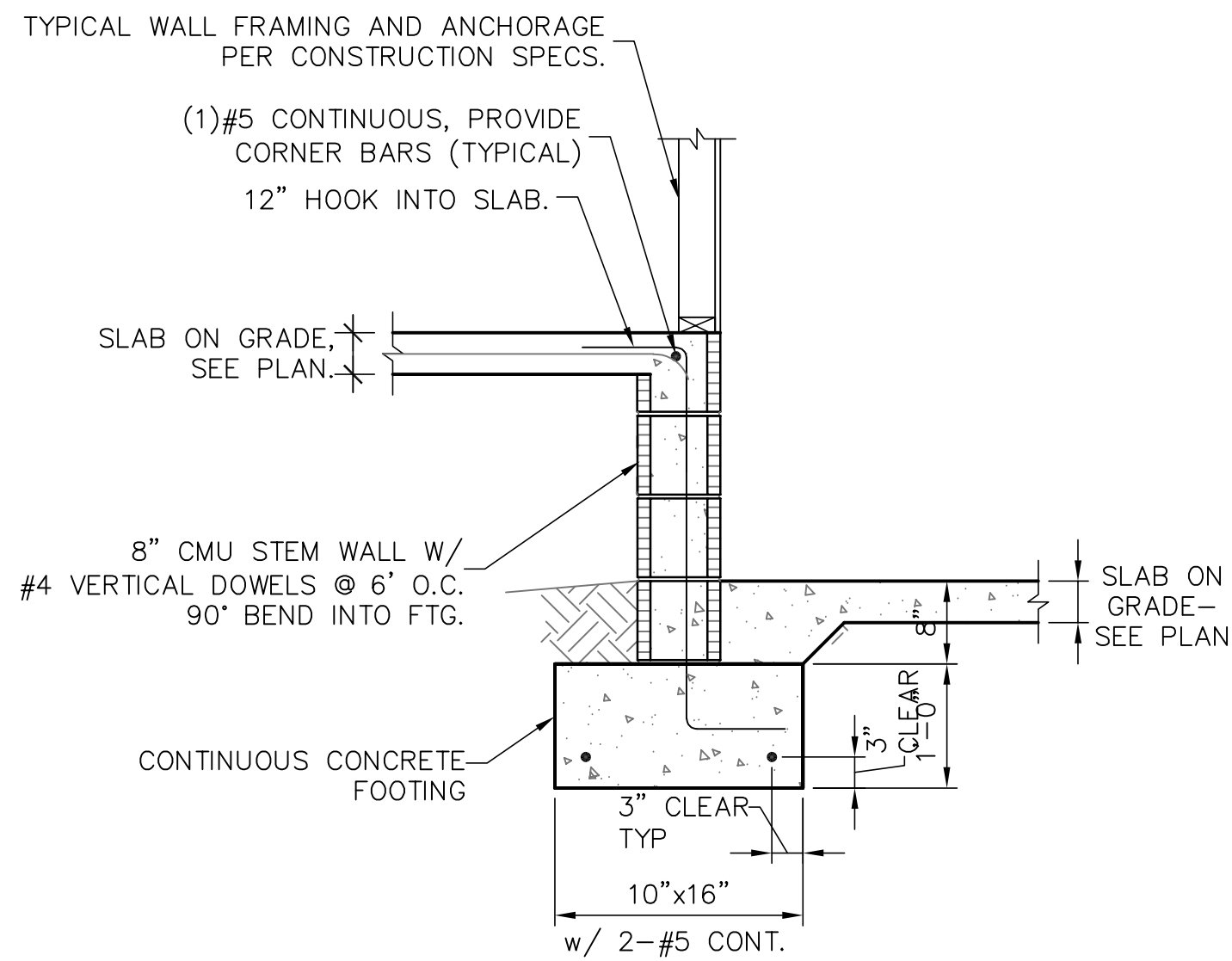
1 STEMWALL FOOTING
S1.01 SCALE: 3/4" = 1'-0"



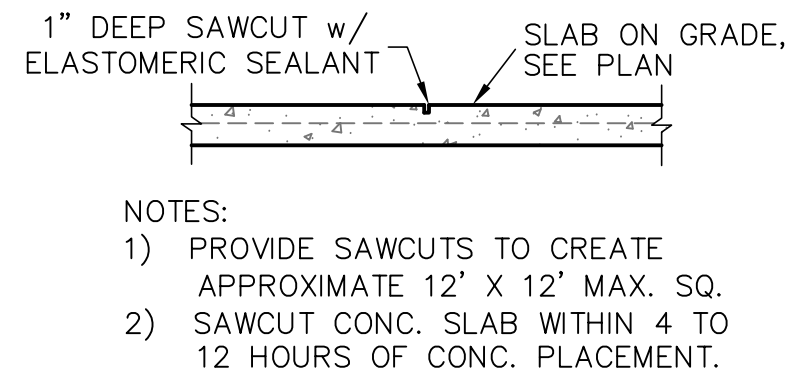
2 FOOTING W/ SHOWER RECESS
S1.01 SCALE: 3/4" = 1'-0"



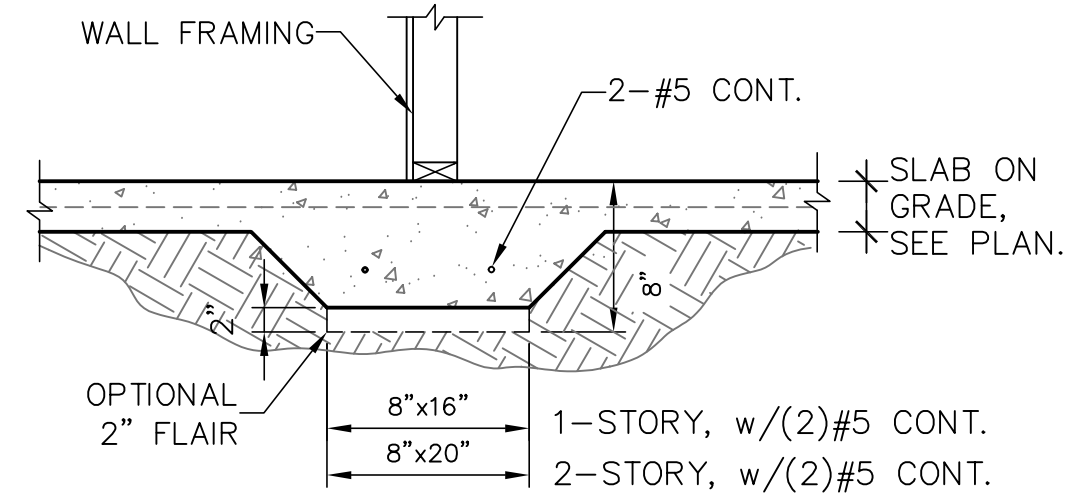
3 GARAGE STEM WALL
S1.01 SCALE: 3/4" = 1'-0"



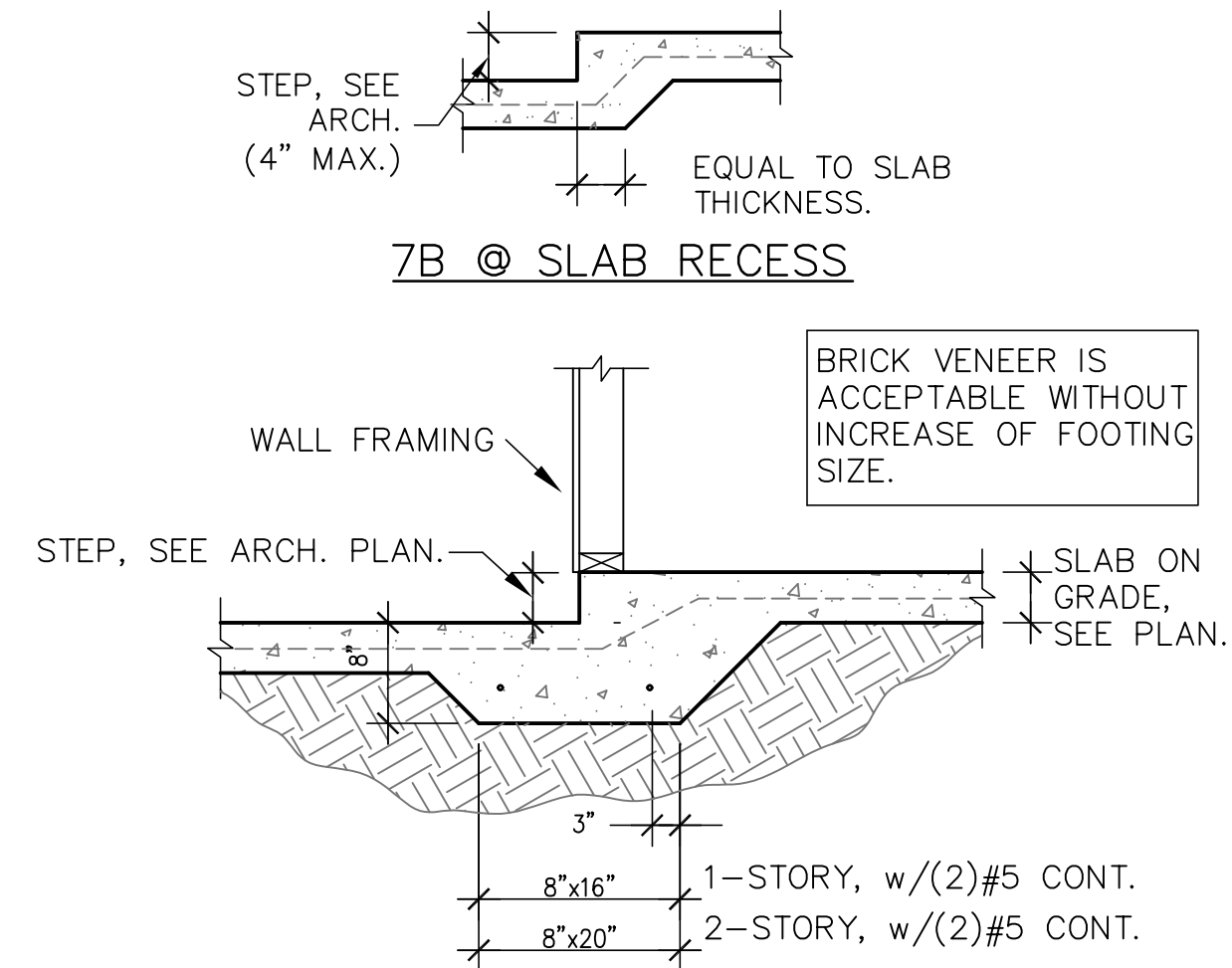
4 STEMWALL AT GARAGE
S1.01 SCALE: 3/4" = 1'-0"



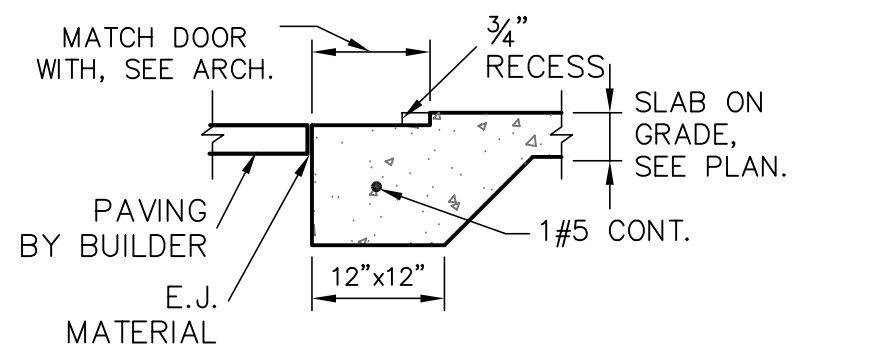
5 SAW CUT DETAIL
S1.01 SCALE: 3/4" = 1'-0"



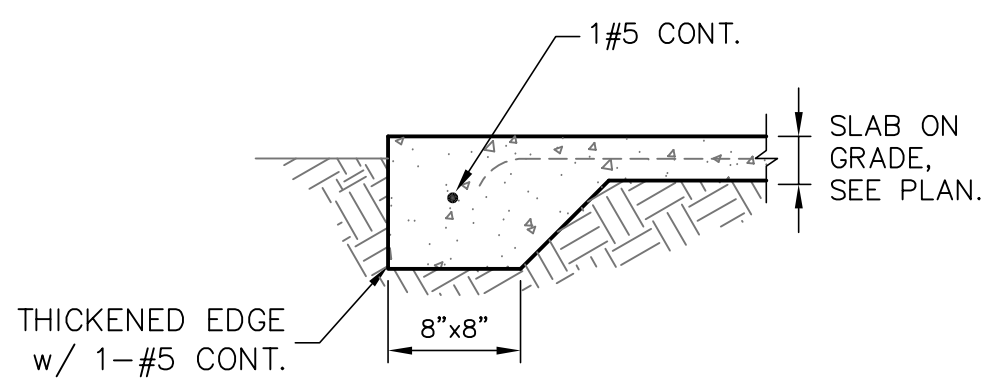
6 BEARING AT INTERIOR
S1.01 SCALE: 3/4" = 1'-0"



7 MONO. FOOTING AT STEP-DOWN
S1.01 SCALE: 3/4" = 1'-0"

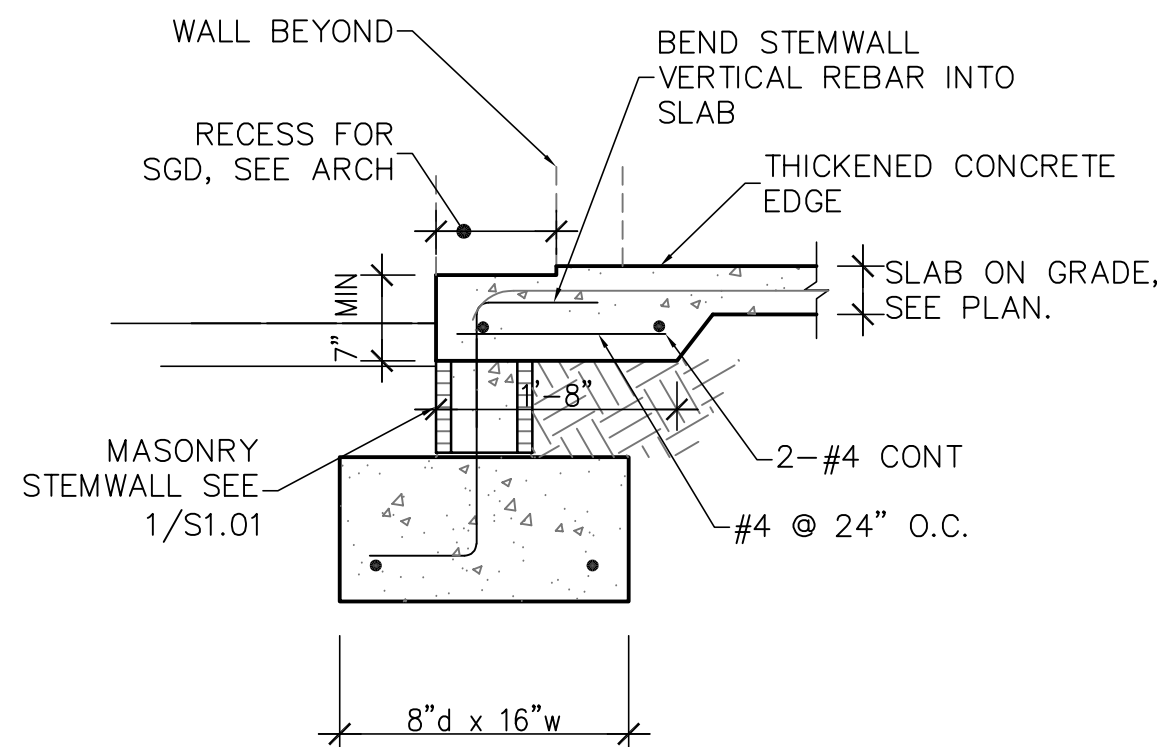


AT GARAGES



AT PORCHES

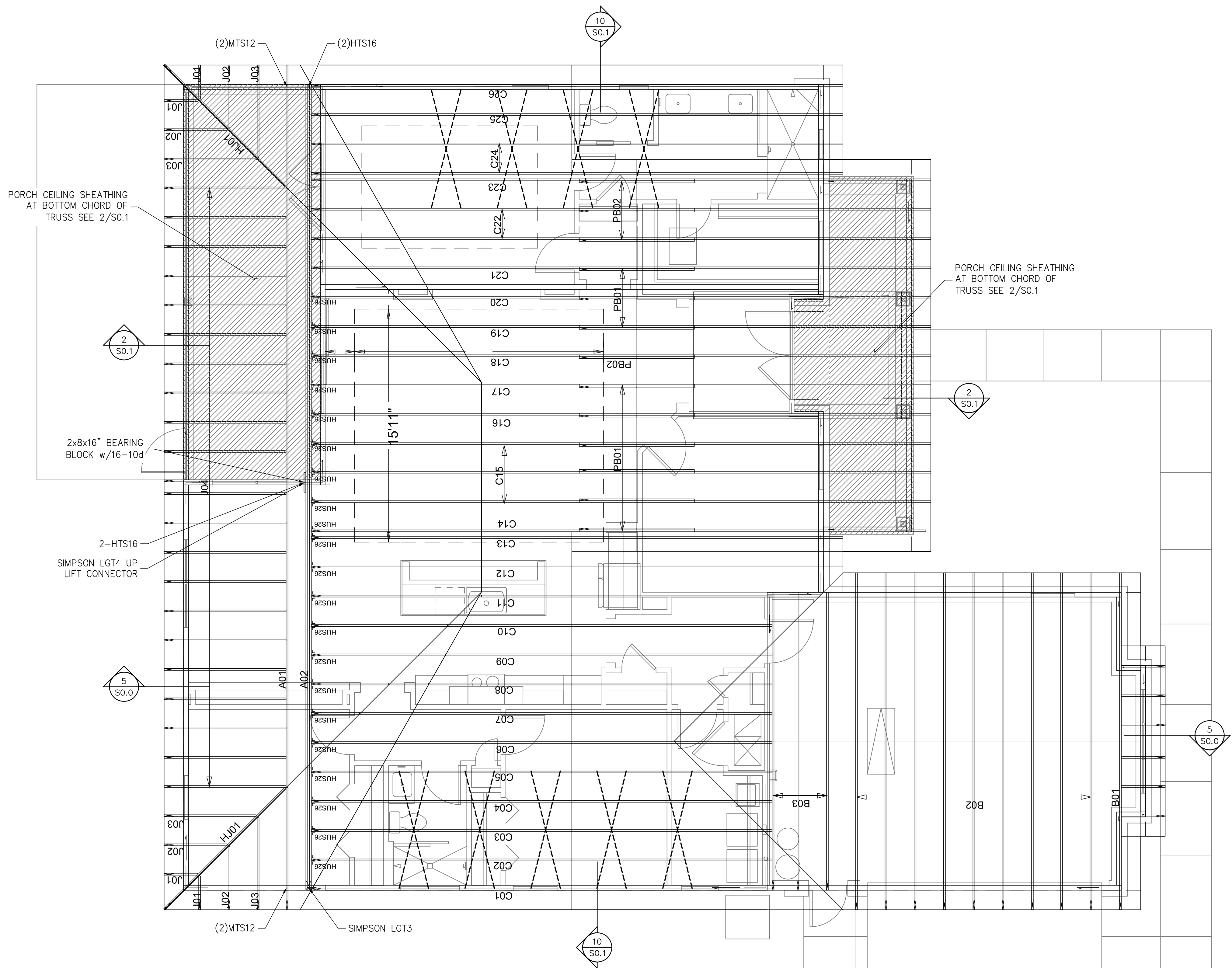
8 THICKENED SLAB
S1.01 SCALE: 3/4" = 1'-0"



9 STEMWALL FOOTING AT SLIDER
S1.01 SCALE: 3/4" = 1'-0"



SHEET
S1.1
SHEET 5 OF 7



FIRST LEVEL TRUSS FRAMING PLAN

SCALE: 1/4" = 1'-0"

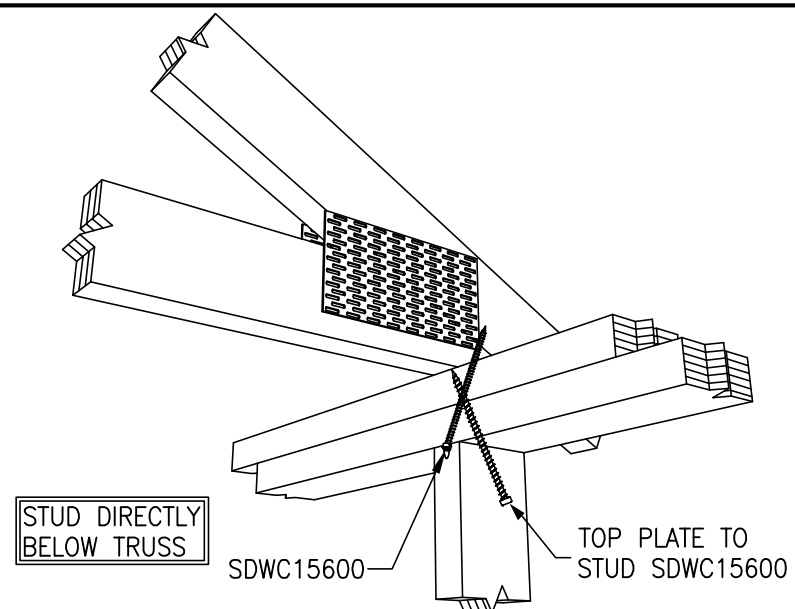
SYMBOLS LEGEND

HTS16 DESIGNATES UPLIFT CONNECTION.

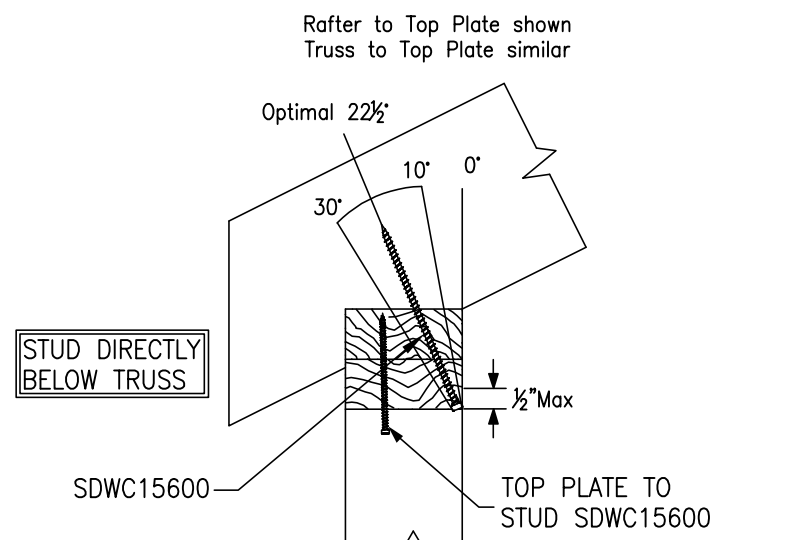
FRAMING PLAN NOTES:

1. FOR TYPICAL ROOF SHEATHING AND FRAMING, SEE SHEET S.O.D.
2. FOR SPECIFIC UPLIFT CONNECTORS, SEE PLAN, MIN. (1)SDWC CONNECTOR.
3. FOR GENERAL DESIGN SPECIFICATIONS SEE SHEET S.O.D.
4. WHEN USING (2)H2.5T CLIPS ON 1 1/2" WIDE LUMBER, PLACE CLIPS DIAGONALLY ACROSS DOUBLE TOP PLATE FROM EACH OTHER.

TRUSS FASTENING DETAILS

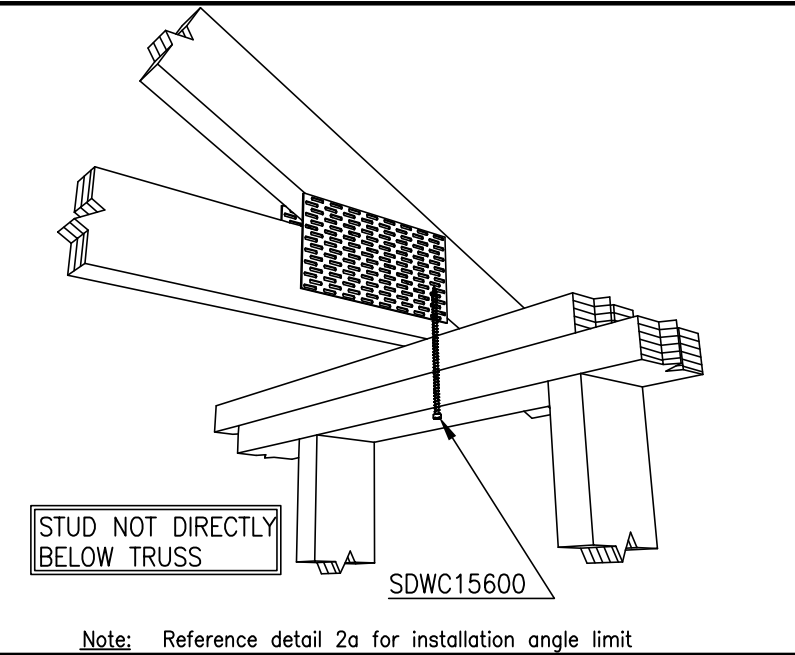


TRUSS TIE DOWN WITH SIMPSON SDWC

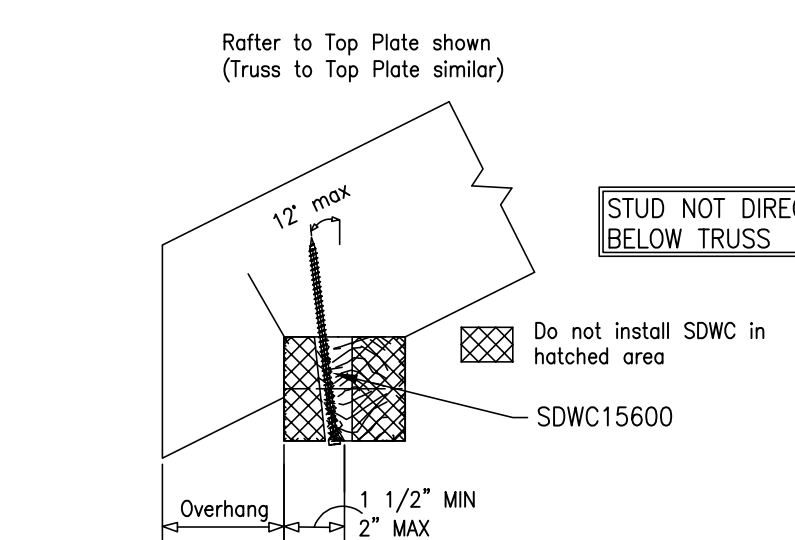


Note: 1. Sloped-roof rafters may be sloped up to and including a 12:12 pitch and must be "birdsmouth" cut.
2. Reference detail 4 for installation instructions.

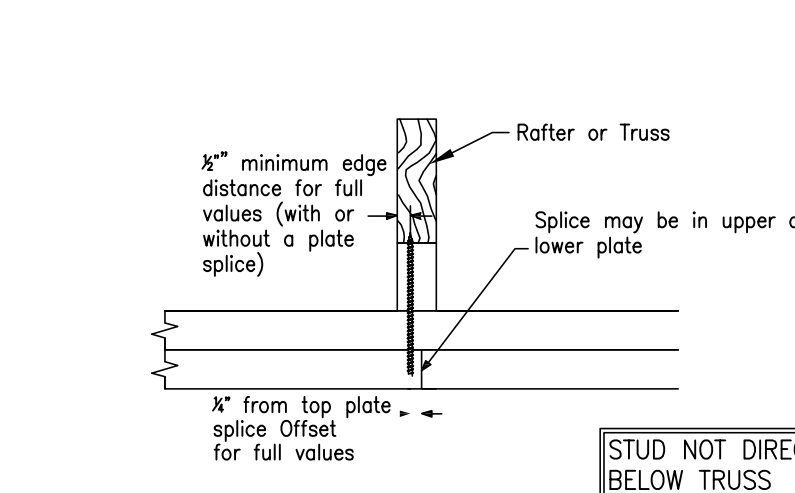
SIMPSON SDWC INSTALLATION RANGE



SDWC INSTALLATION



SDWC INSTALLATION RANGE



SDWC AT TOP PLATE SPLICE



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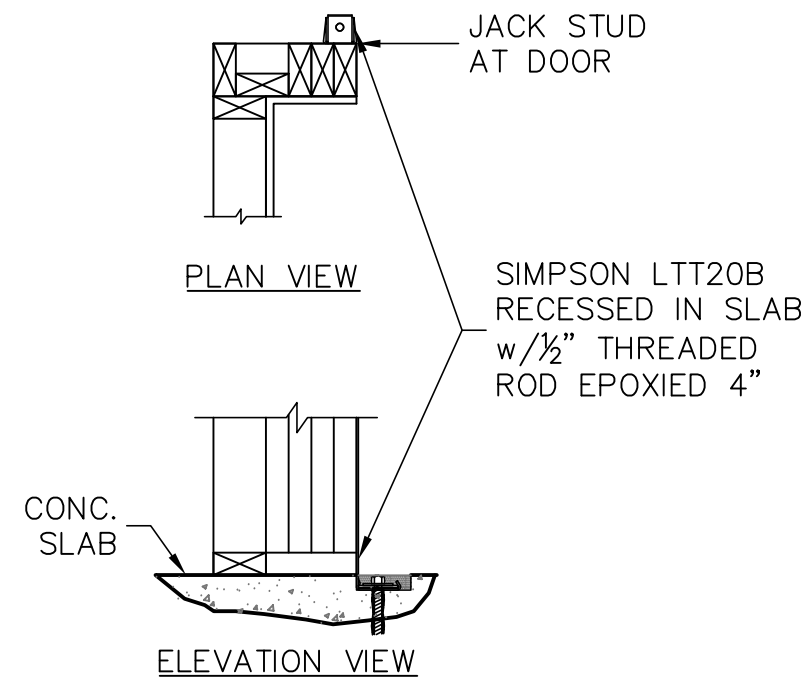
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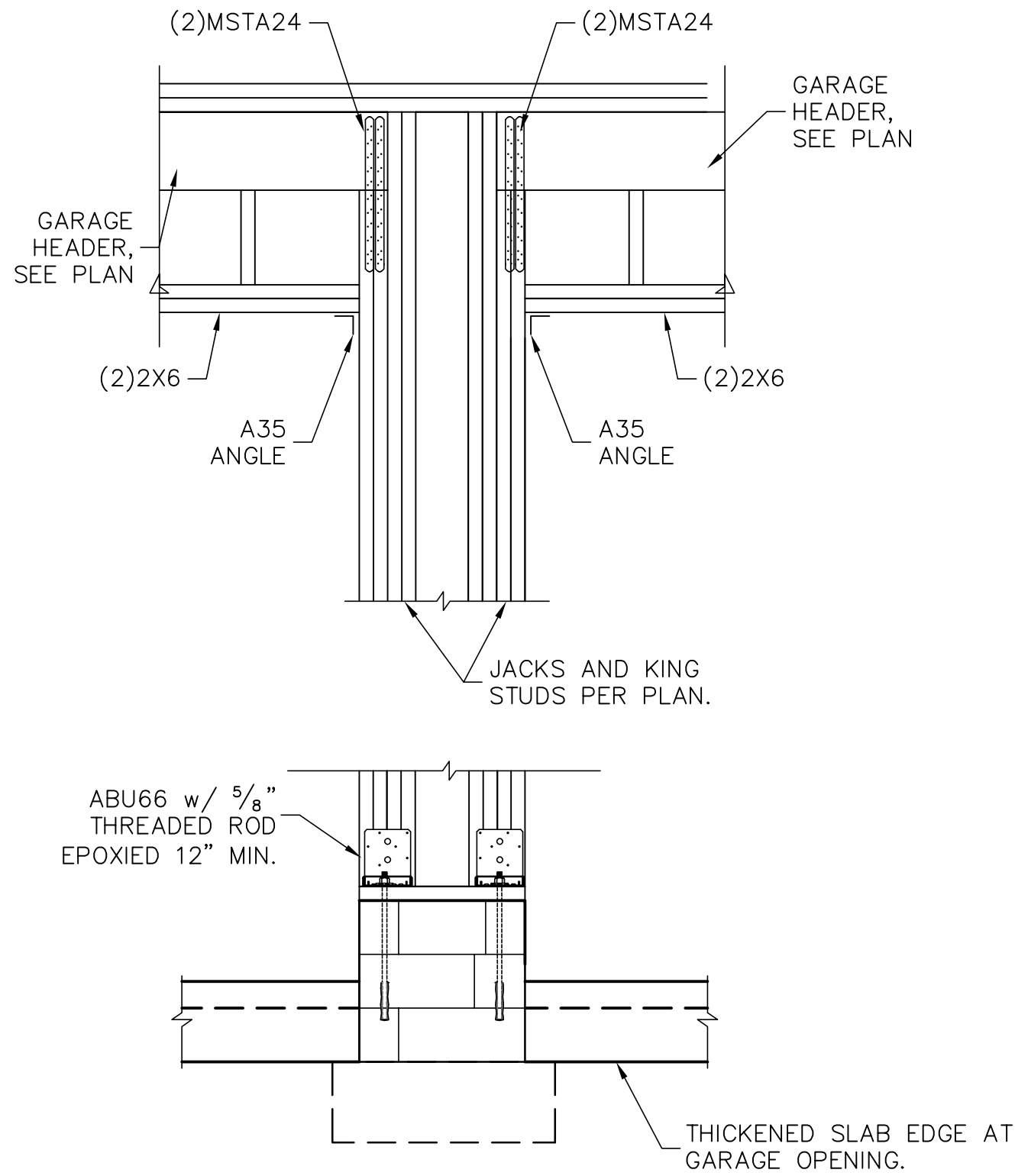
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ROOF TRUSS
PLACEMENT
PLAN

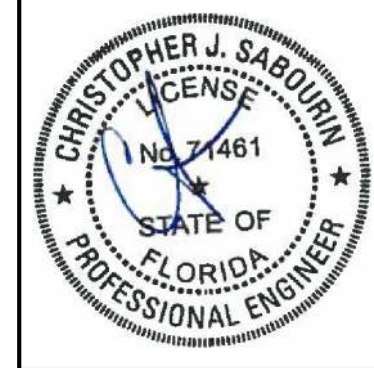
SHEET
S1.2
SHEET 6 OF 7



1 DOOR JAMB FASTENING
WHEN NOTED THIS DETAIL ONLY APPLIES WHEN NOTED ON PLAN
S2.0



2 GARAGE CENTER WALL FRAMING
SCALE: 3/4" = 1'-0"
S2.0



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