

## GENERAL NOTES

## ENGINEERING DESIGN RESPONSIBILITIES:

THE ITEMS SPECIFICALLY DESIGNED BY THE STRUCTURAL ENGINEER ARE LIMITED TO THE FOLLOWING: STRUCTURAL COMPONENTS SUCH AS THE FOOTINGS, BEAMS, COLUMNS, POST, STUDS, SHEATHING, ETC TO SUPPORT CODE SPECIFIED LOADS. ITEMS NOT DESIGNED INCLUDE: PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES, FLOOR FRAMING NOT SPECIALLY ADDRESSED AND TRUSS-TO-TRUSS CONNECTION. ITEMS NOT DESIGNED ALSO INCLUDE ARCHITECTURAL FEATURES SUCH AS EYE BROW ROOFS, CORNICES, NON-STRUCTURAL FRAMING, WATERPROOFING, MECHANICAL OR ELECTRICAL SYSTEM.

## GENERAL NOTES:

THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, MEANS AND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, DRYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OR STRUCTURAL OBSERVERS SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

TYPICAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK, MATERIALS AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQMT'S.

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.

ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS. RESOLVE ALL DISCREPANCIES WITH ARCHITECT PRIOR TO START OF CONSTRUCTION. DO NOT SCALE DRAWINGS. COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL&MECHANICAL, ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.

CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA SAFETY REGULATIONS FOR ITS EMPLOYEES.

NO STRUCTURAL CHANGE FROM THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE IN THE FIELD UNLESS WRITTEN APPROVAL IS OBTAINED PRIOR TO MAKING SUCH CHANGE. CHANGES WITHOUT THE WRITTEN APPROVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONDITION SHALL BE REPAIRED OR REPLACED AS DIRECTED.

## ROOF COVERING SPECIFICATIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ROOF COVERING SYSTEM. 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.

## GUARDRAILS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN/INSTALLATION OF GUARDRAILS

## WOOD FRAMING

NATIONAL FOREST PRODUCTS ASSOCIATION, AF & PA NDS-05, WITH 2005 SUPPLEMENT, AND AF&PA SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC, SDPM5-05.

ALL LUMBER, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, SHALL BE MILL SIZED AND SURFACED ON (4) SIDES. ALL SHALL BE STRAIGHT STOCK, FREE FROM WARP OR CUP, AND SINGLE LENGTH PIECES. SPLICES WILL NOT BE PERMITTED EXCEPT WHERE SPECIFICALLY SO DETAILED OR AS DIRECTED BY THE ENGINEER.

EACH PIECE OF STRUCTURAL LUMBER, SHEATHING AND TIMBER SHALL BE MARKED WITH THE GRADE BY SUCH COMPETENT AND RELIABLE ORGANIZATION WHOSE REGULAR BUSINESS IS TO ESTABLISH LUMBER GRADES.

UNLESS NOTED OTHERWISE, USE SPRUCE-PINE-FIR (SPF) OR SOUTHERN PINE (SYP). 19% MAX. MOISTURE CONTENT, AS FOLLOWS: SPRUCE PINE FIR #2 SPECIFICATIONS: Fb=775 PSI, Fc(PARALLEL)= 1000 PSI, Fc(PERP)=335 PSI, Fv=135 PSI, Ft=350 PSI, E=1100 KSI SOUTHERN PINE #2 SPECIFICATIONS FOR LATEST SOUTHERN FOREST PRODUCTS ASSOCIATION (SFPA)

ALL WALLS SHALL BE BALLOON FRAMED FULL HEIGHT TO ROOF OR FLOOR BEARING ELEVATION, UNLESS NOTED OTHERWISE ON PLAN.

ANY WOOD IN CONTACT WITH CONCRETE, MASONRY, OR SOIL, SHALL BE PRESSURE TREATED.

ALL WOOD-TO-WOOD CONNECTIONS SHALL EMPLOY METAL ANCHORS, NO TOE OR END NAILING SHALL BE PERMITTED (UON), EXCEPT FOR AT TOP AND BOTTOM PLATES IN WALLS. METAL CONNECTORS SHALL BE FASTENED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO DEVELOP THE PUBLISHED CAPACITY.

TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES TO THE PIECE AND BE STARTED AT 1/3 THE NAIL LENGTH FROM THE END OF THE PIECE.

MULTIPLE STUD PACK COLUMNS SHALL BE CONNECTED Laterally TO ONE ANOTHER PER DETAIL INDICATED HEREIN.

TIMBER FASTENING SHALL BE PER FBC "MINIMUM FASTENING SCHEDULE" UNLESS NOTED AS GREATER ON DRAWINGS. ROUGH HARDWARE, JOIST HANGERS, STRAPS, HOLDOWNS, ETC. SHALL BE MANUFACTURED BY "SIMPSON STRONG-TIE" COMPANY OR APPROVED EQUAL. THE MAXIMUM SIZE AND NUMBER OF FASTENERS REQUIRED BY THE MANUFACTURER SHALL BE USED UNLESS NOTED OTHERWISE.

BLOCKING AND FIRESTOPPING TO BE INSTALLED AS REQUIRED TO SUPPORT ALL ITEMS OF FINISH SUCH AS BULKHEADS AND BUCKS. PROVIDE FIREBLOCKING TO CUT OFF ALL CONCEALED DRAFT OPENINGS, BOTH VERTICAL AND HORIZONTAL, BETWEEN CEILING AND FLOOR AREAS (AS REQUIRED BY BUILDING OFFICIAL AND ARCHITECT).

## GENERAL NOTES (CONTINUED)

## 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.

-SHALLOW FOUNDATIONS BEARING 12" BELOW GRADE. ALLOWABLE BEARING PRESSURE = 2,000 PSF

FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION. FOR GENERAL FEATURES, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC., SEE ARCHITECTURAL PLANS. DO NOT SCALE FOOTING DIMENSIONS AND LOCATIONS FROM THE FOUNDATION PLAN. IF FOOTING SIZE OR LOCATION IS NOT DETERMINED ON PLAN THEN CONTACT THE STRUCTURAL ENGINEER.

UNLESS OTHERWISE NOTED ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" IN FOOTINGS AND MESH SHALL BE CENTERED IN SLAB ON GRADE USING SUPPORT BARS AND CHAIRS. IN ALL CONTINUOUS FOOTINGS PROVIDE #4 @ 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

WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF THE PROJECT GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

## CONCRETE SLABS ON GRADE:

CONCRETE SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. SLABS 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 SOL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES.

CONCRETE SLAB "CONTROL JOINTS" SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/4 TIMES THE THICKNESS OF THE SLAB WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE 15'-0" (MAX.) IN EACH DIRECTION. LOCATION OF CONTROL JOINTS SHALL BE LOCATED SUCH THAT THE AREA CONTAINED IS 300 SQUARE FEET MAX., WITH A MAXIMUM RATIO OF LONG TO SHORT SIDE OF 2 TO 1.

## MASONRY SPECIFICATIONS:

MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH AQ 530-05, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACOS30.1-05. 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.

## STEINFLASH:

ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90E, E GRADE N-1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE "S" MORTAR. WALL COURSEING SHALL BE RUNNING BONDS, STACK BOND SHALL NOT BE USED. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK 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, WALL END, AND WALL INTERSECTIONS. PROVIDE CONTINUITY OF REINFORCING AT INTERSECTIONS OF PERPENDICULAR MASONRY ELEMENTS BY INSTALLING CORNER BARS, MINIMUM OF 40 BAR DIAMETERS INTO EACH ELEMENT. AT STEWALL CONSTRUCTED OF 5 OR MORE COURSES, PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY, (EVERY OTHER COURSE), AND VERTICAL REINF. SHALL BE INCREASED AS NOTED ON S.I.O. UNLESS NOTED OTHERWISE. LAP JOINT REINFORCING SHALL BE A MINIMUM OF 6".

## EPOXY ANCHORS IN CONCRETE:

ADHESIVE FOR REINFORCING JOUELS IN EXISTING CONCRETE SHALL BE EITHER THE HIT HY150 MAX INJECTION ADHESIVE SUPPLIED BY HILTI FASTENING SYSTEMS, EPOXY-TIE SET EPOXY ADHESIVE SUPPLIED BY SIMPSON STRONGTIE COMPANY, POWER-FAST EPOXY INJECTION GEL SUPPLIED BY POWERS FASTENERS, EPOX G5 EPOXY ADHESIVE SUPPLIED BY ITW RAMSEY/RED HEAD OR APPROVED EQUAL. MIN. EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

## PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES:

"CAND-HAL" PRE-ENGINEERED WOOD TRUSSES ARE TO BE CONSTRUCTED WITH METAL PLATE CONNECTORS AND DESIGNED BY A DELEGATED ENGINEER. TRUSSES SHALL COMPLY WITH NFPA, TPI, AND AITC 100. THE TRUSS MANUFACTURER SHALL PROVIDE DESIGN CALCULATIONS AND SHOP DRAWINGS SIGNED AND SEALED BY A STRUCTURAL ENGINEER (CONTRACTED BY TRUSS MANUFACTURER) FOR REVIEW PRIOR TO FABRICATION.

PROVIDE ALL REQUIRED BLOCKING AND BRACING REQUIRED BY THE MANUFACTURER FOR CONSTRUCTION AND ERECTION IN ADDITION TO BLOCKING SHOWN ON THE STRUCTURAL DETAILS. MEMBERS OF A COMPLETED TRUSS ARE NEVER TO BE NOTCHED OR CUT. THE DESIGN SHALL ACCOUNT FOR ALL UNIFORM LOADS AND EQUIPMENT LOADS. CONTACT THE STRUCTURAL ENGINEER FOR UNIFORM LOADING AND REQUIREMENTS IF REQUIRED.

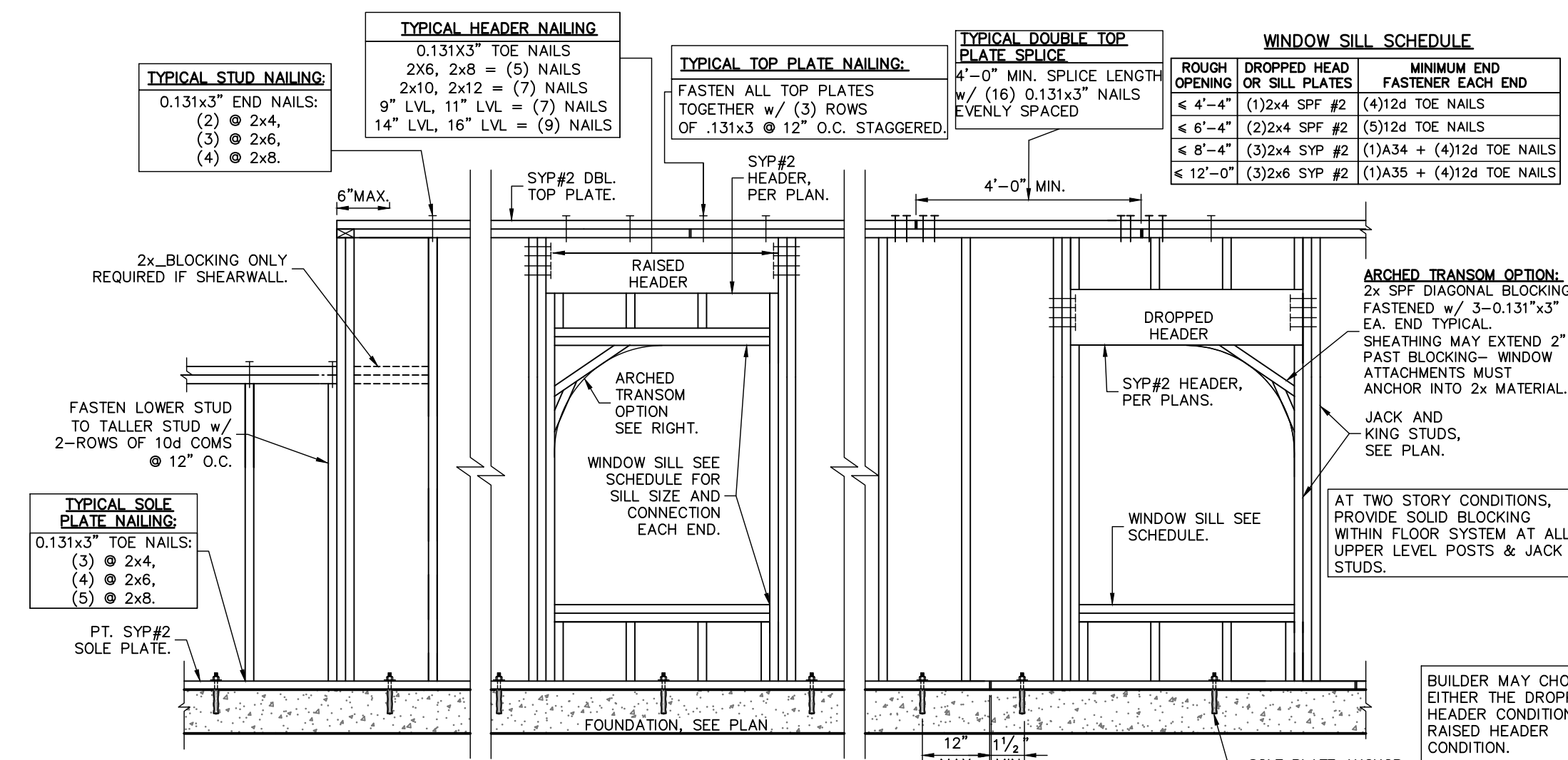
CONTRACTOR SHALL VERIFY THAT ADEQUATE TRUSS BEARING IS INSTALLED AT ALL TRUSSES AS INDICATED IN THE TRUSS SHOP DRAWINGS.

ALL TRUSS-TO-TRUSS CONNECTIONS AND TRUSS PROFILES ARE THE RESPONSIBILITY OF THE DELEGATED TRUSS ENGINEER. PRE-ENGINEERED WOOD TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE'S "HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91" AND " BUILDING COMPONENT SAFETY INFORMATION BOOKLET BC51 1-03" AND RELATED SUMMARY SHEETS.

GENERAL CONTRACTOR SHALL NOT CUT OR ALTER ANY TRUSS MEMBER.

FLOOR TRUSSES SHALL CONNECT TO BEARING WALLS WITH A MINIMUM OF (2)-16d TOENAILS. FLOOR TRUSSES SHALL CONNECT TO BEAMS AT FLUSH CONDITIONS WITH SIMPSON HANGERS AS SPECIFIED BY TRUSS DESIGNER.

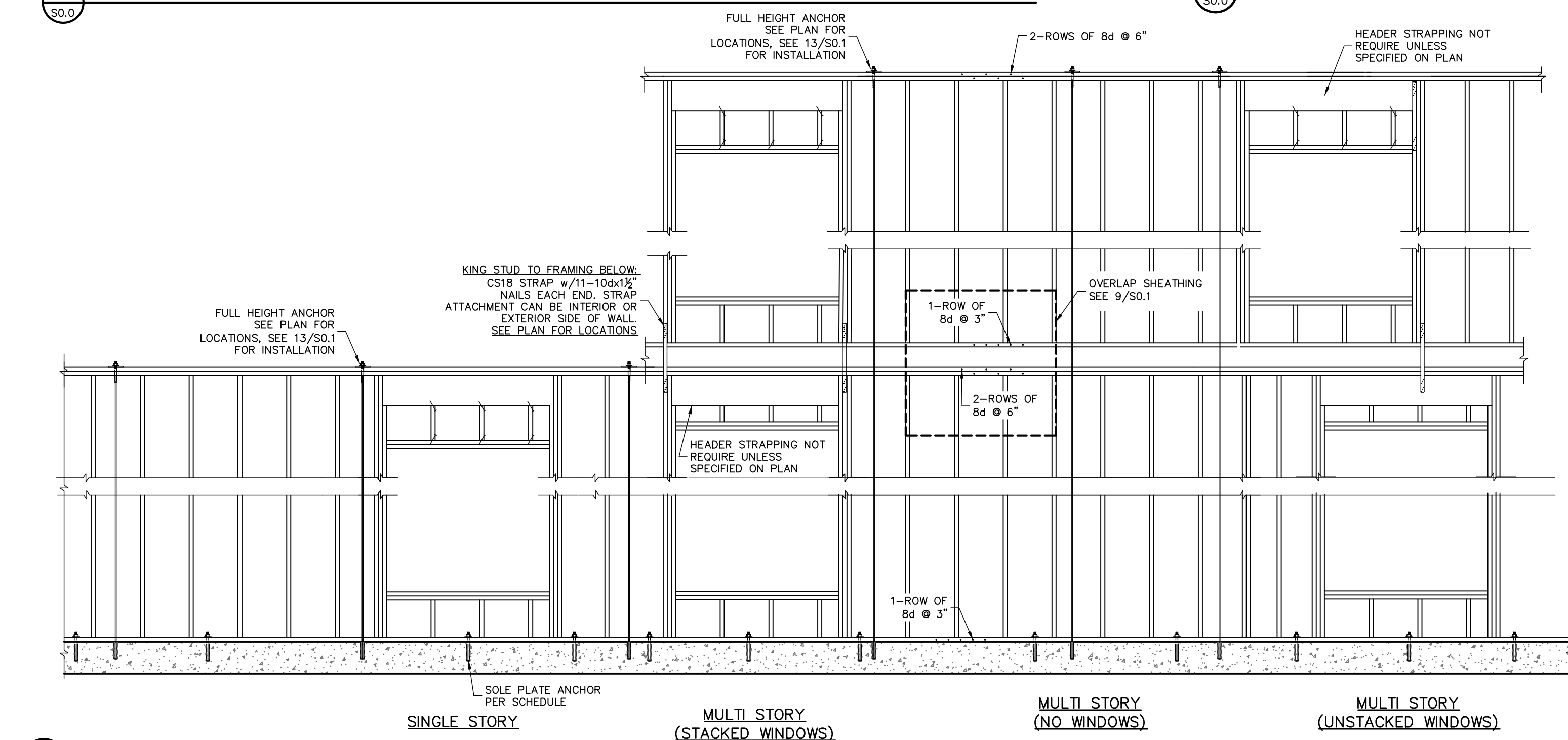
METAL STRAPPING AND CONNECTOR FASTENING					METAL STRAPPING AND CONNECTOR FASTENING					METAL STRAPPING AND CONNECTOR FASTENING					
SIMPSON CONNECTOR	FL#	USP CONNECTOR	FL#	FASTENERS	SIMPSON CONNECTOR	FL#	USP CONNECTOR	FL#	FASTENERS	SIMPSON CONNECTOR	FL#	USP CONNECTOR	FL#	FASTENERS	ANCHORAGE
A35	10446.1	MPA1	17244.23	12-0.131x1 1/2"	LSTA12	10456.7	LSTW12	17244.8	6-0.148x3" EA END	HTT5	11496.2	HTT5	17324.2	26-0.162x2 1/2"	3/4" x8" ROD EXPOSED 8" MIN
CS16	10852.2	RS150	17244.27	11-0.148x3" EACH END	MSTA24	10852.9	MSTA24	17244.18	9-0.148x3" EA END	LTT20B	11496.3	LTT20B	17219.3	10-0.148x2 1/2"	1/2" x6" TITEN HD
H2.5A	10456.3	RT7	17236.11	5-0.131x 2 1/2" EA END	MTS12	10456.8	MTW12	17244.8	7-10x10 1/2" EA END	ABU44	10860.4	PAU44	17239.13	12-0.162x2 1/2"	3/4" x8" ROD EXPOSED 6" MIN
H8	10446.13	RT8	17236.11	5-0.131x 2 1/2" EA END						ABU66	10860.4	PAU66	17239.13	12-0.162x2 1/2"	3/4" x8" ROD EXPOSED 6" MIN
HTS16	10456.6	HTW16	17244.8	8-0.148x1 1/2" EA END						DTT22	10441.3	DTB-TZ	17219.1	8-1/2" x1 1/2" SDS	1/2" x8" TITEN HD



## ROOF TRUSS CONNECTION

NOTES:  
1. TOP PLATE TO STUD SDWC15600 @ 32" O.C. ONLY REQUIRED WHEN H10A STRAP IS INSTALLED ON INTERIOR FACE OF WALL

## TYPICAL WOOD WALL FRAMING



## TYPICAL WALL UPLIFT ANCHORAGE

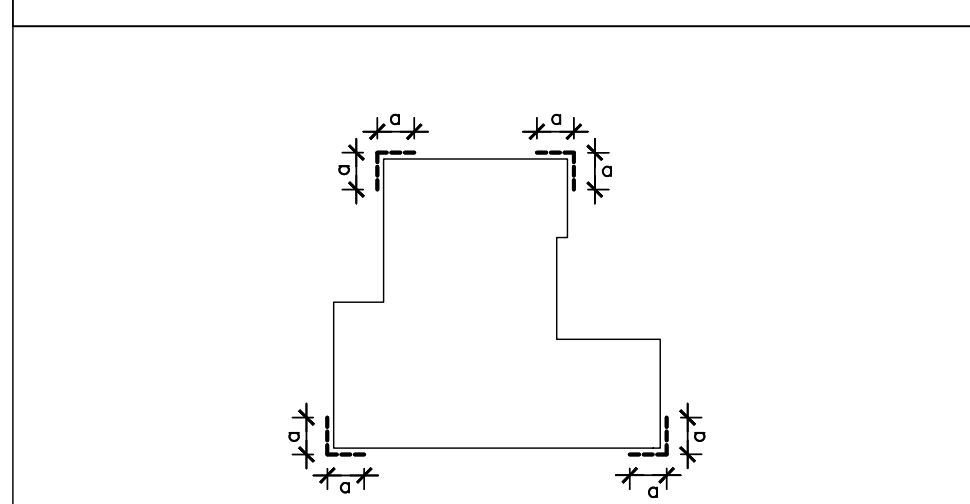
## TYP. WALL SECTIONS

BUILDING CODE			
DESIGN CODE: 2020 FLORIDA BUILDING CODE - RESIDENTIAL ASCE 7-16			
FLOOR AND ROOF DESIGN CRITERIA			
FLOOR LOADING (Cd = 1.0)		ROOF LOADING (Cd = 1.25)	
TOP CHORD DEAD	10 PSF	TOP CHORD DEAD	7 PSF (SHINGLES)
TOP CHORD LIVE:		TOP CHORD LIVE:	20 PSF
BALCONIES	60 PSF	BOTTOM CHORD DEAD	5 PSF
ALL OTHER AREAS	40 PSF	BOTTOM CHORD LIVE:	NO STORAGE
		LIMITED STORAGE	10 PSF
		STORAGE	20 PSF
BOTTOM CHORD DEAD	5 PSF		30 PSF
BOTTOM CHORD LIVE	0 PSF		
LIVE LOAD DEFLECTION	L/360	LIVE LOAD DEFLECTION	L/240
TOTAL DEFLECTION	L/240 (0.75" MAX)	TOTAL DEFLECTION	L/180

WIND CRITERIA			
WIND SPEED Vult	130mph		
WIND SPEED Wnom	101mph		
EXPOSURE CATEGORY	C		
BUILDING ENCLOSURE CLASSIFICATION	ENCLOSED		
RISK CATEGORY	II		
BUILDING HEIGHT	< 30'		
ROOF PITCH	7:12		
WINDOW AND DOOR DP (C&C) PRESSURE			
EFFECTIVE WIND AREA (SQUARE FT)	WIND ZONE DESIGNATION		
	INTERIOR ZONE	END ZONE	
0 - 10	+24.61 -26.70	+24.61 -32.95	
11 - 50	+23.42 -25.51	+23.42 -30.58	
51 - 100	+22.01 -24.09	+20.91 -27.74	
GARAGE DOOR			
(1) CAR 8'x7'	+23.42 -25.51	+23.42 -30.58	
(2) CAR 16'x7'	+22.01 -24.09	+20.91 -27.74	

## WIND LOADING NOTES:

- THE VALUES SHOWN ABOVE HAVE BEEN REDUCED PER ASD LOAD COMBINATION 0.6W. NO FURTHER REDUCTIONS SHALL BE PERMITTED
- PLUS = PRESSURE AND MINUS = SUCTION COMPONENT AND CLADDING ELEMENTS SHALL BE DESIGNED FOR BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE ABOVE.
- DESIGN OF WINDOWS AND DOOR FASTENING TO WALL FRAMING IS THE RESPONSIBILITY OF THE WINDOW/DOOR MANUFACTURER AND SHALL MEET BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE ABOVE.
- SEE SCHEMATIC BELOW FOR END ZONE LOCATIONS



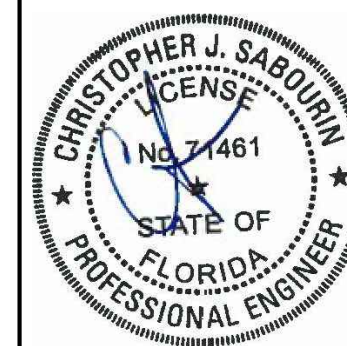
## BUILDING FOOT PRINT SHOWING END ZONES

FLOOR SHEATHING SPECIFICATION		TYPICAL NAILING
23/32 TAG OSB OR PLYWOOD SHEATHING		TETRA GRIP .113x2 3/8" @ 6" EDGE AND FIELD
FLOOR SHEATHING NOTES:		
1. FLOOR SHEATHING SHALL BE INSTALLED WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTS		
2. PANEL EDGE BLOCKING IS NOT REQUIRED		
WALL SHEATHING SPECIFICATION		TYPICAL NAILING
MIN. 3/4" 24/16, APA RATED OSB OR PLYWOOD STRUCTURAL I SHEATHING		0.131"x2 3/8" @ 6" O.C. EDGE, 12" O.C. FIELD. 0.131"x2 3/8" @ 3" O.C. AT TOP AND BOT PLT
WALL SHEATHING NOTES:		
1. SHEATHING MAY BE INSTALLED FOR FLEXIBLE OR BRITTLE FINISHES.		
2. SHEATHING MUST EXTEND FULL HEIGHT FROM BOTTOM PLATE TO UPPER PLY OF DOUBLE TOP PLATE.		
3. SHEATHING MAY BE INSTALLED HORIZONTALLY OR VERTICALLY.		
4. PANEL EDGE BLOCKING IS REQUIRED AT PANEL JOINTS. THE BLOCKING SHALL BE FLATWISE 2x4 SPF#2 OR BETTER FASTENED EA END W/ (3) 10d TOE-NAILS.		
5. AT SHEARWALLS, EDGE NAILING IS DECREASED TO 3" O.C. SEE PLAN FOR LOCATIONS		

ROOF SHEATHING SCHEDULE			
ROOF SHEATHING SPECIFICATION			
SHINGLE	3/4" 24/16, APA RATED OSB OR PLYWOOD SHEATHING	0.113x2 3/8" RING SHANK, @ 6" O.C. EDGE AND FIELD, (4" O.C. WITHIN 4' OF ROOF EDGE)	
METAL	15/32" 32/16, APA RATED OSB OR PLYWOOD SHEATHING (SEE NOTE 1 BELOW)	0.113x2 3/8" RING SHANK, @ 6" O.C. EDGE AND FIELD, (4" O.C. WITHIN 4' OF ROOF EDGE)	
TILE	19/32" 32/16, APA RATED OSB OR PLYWOOD SHEATHING (SEE NOTE 1 BELOW)	0.113x2 3/8" RING SHANK, @ 6" O.C. EDGE AND FIELD, (4" O.C. WITHIN 4' OF ROOF EDGE)	
NOTE 1 - VERIFY WITH MANUFACTURER'S FLORIDA PRODUCT APPROVAL ##			

NAIL SIZE LEGEND					
NAIL	LENGTH	DIAMETER	NAIL	LENGTH	DIAMETER
8d COMMON	2 1/2"	0.131"	10d COMMON	3"	0.148"
8d RING SHANK	2 3/4"	0.113"	10d RING SHANK	3"	0.148"
10d 1 1/2"	1 1/2"	0.148"	12d COMMON	3 1/4"	0.148"
10d	3"	0.131"	16d COMMON	3 3/4"	0.162"

ABBREVIATIONS			
BM	BEAM	PSI	POUNDS PER SQUARE INCH
BOT	BOTTOM	PSL	PARALLEL STRAND LUMBER
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
DBL	DOUBLE	SF	SQUARE FOOT
EA	EACH	SPF	SPRUCE PINE FIR
EOR	ENGINEER OF RECORD	SYP	SOUTHERN YELLOW PINE
EQ	EQUAL	THRU	THROUGH
EXT	EXTERIOR	TR	THREADED ROD
FBC	FLORIDA BUILDING CODE	TYP	TYPICAL
FT	FOOT	UN	UNLESS OTHERWISE NOTED
FTG	FOOTING	VERT	VERTICAL
HORIZ	HORIZONTAL	O.C.	ON CENTER
LVL	LAMINATED VENEER LUMBER	OSB	ORIENTED STRAND BOARD
MONO	MONOLITHIC	PERP	PERPENDICULAR
		PSF	POUNDS PER SQUARE FOOT



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PLAN NAME  
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SSE No.  
21-0604

ISSUE	DATE
PERMIT	11.11.21
REVISIONS	DATE

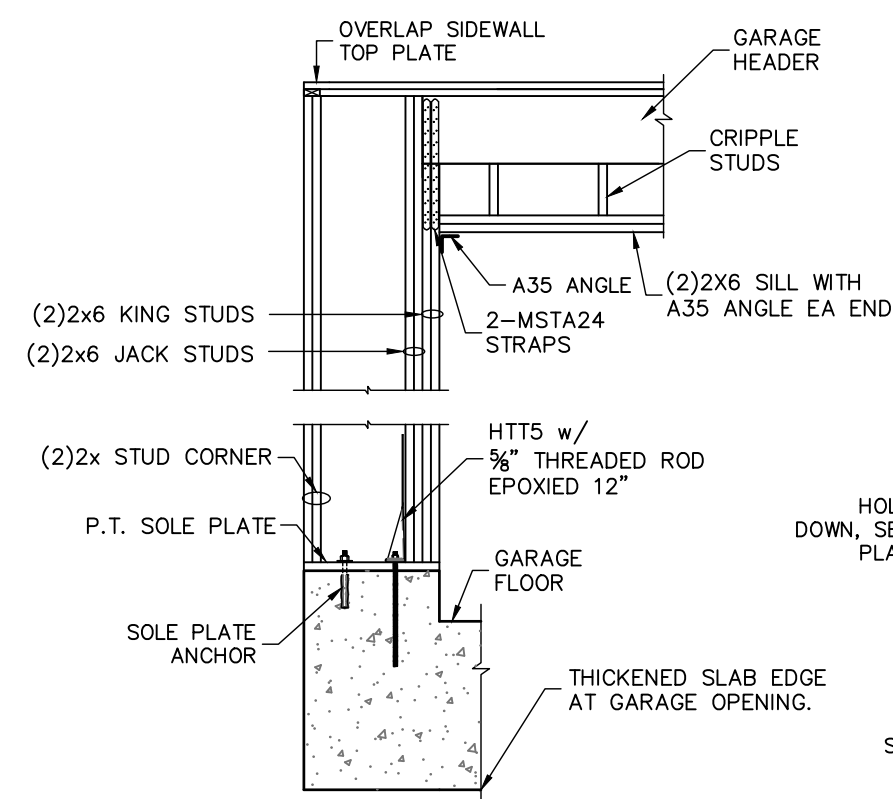
STRUCTURAL ENGINEERING FOR  
THE ARATA RESIDENCE

**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 USING APPROVED BY CHRISTOPHER SABOURIN MAY RESULT IN ADDITIONAL ENGINEERING OR INSPECTION FEES.

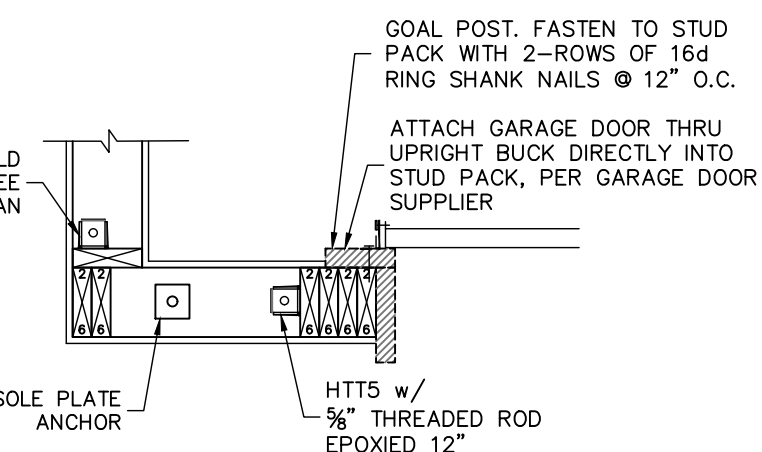
**SCALING**  
DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS. IF A DIMENSION IS UNCLEAR REFER TO THE ARCHITECTURAL DRAWINGS OR CONTACT THE E.O.R.

**DESIGN**  
**CRITERIA**  
**AND**  
**GENERAL**  
**NOTES**

SHEET  
**50.0**  
SHEET 1 OF 7

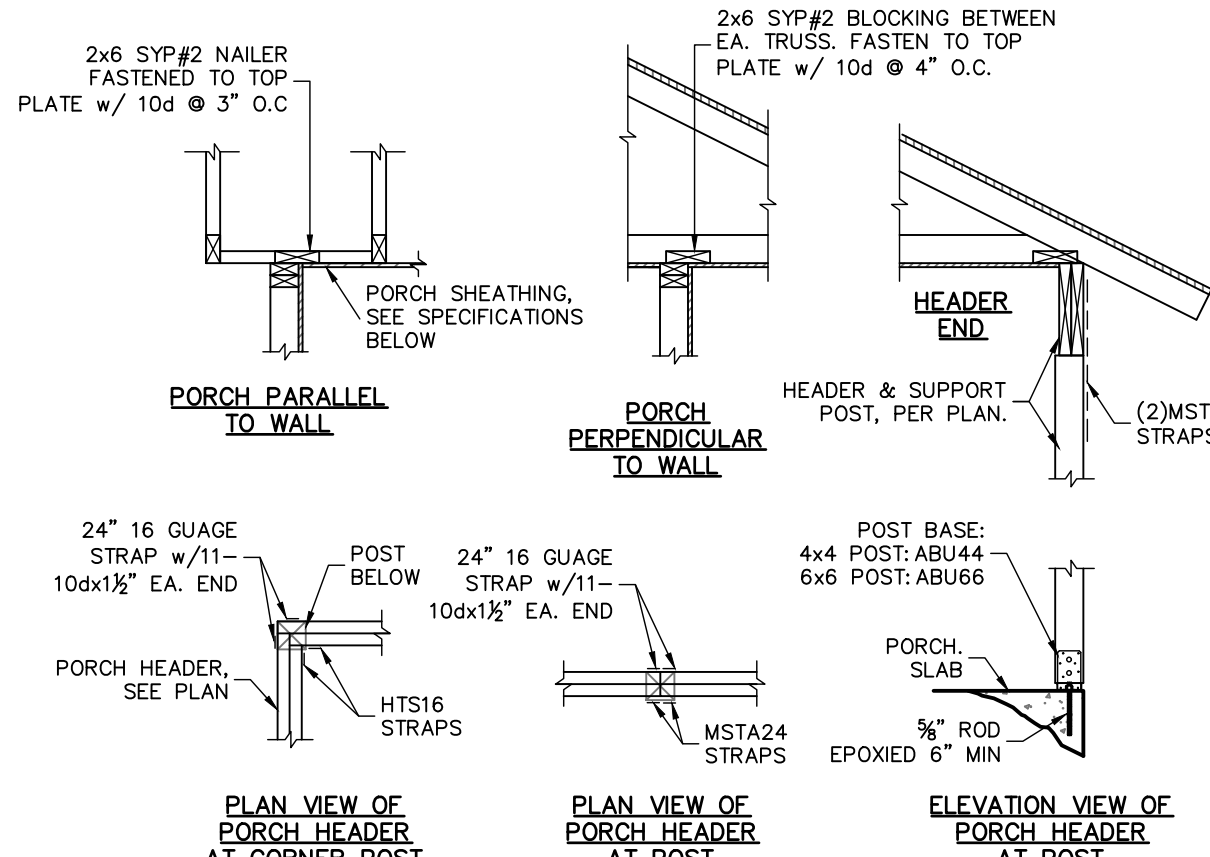


GARAGE WING WALL ELEVATION

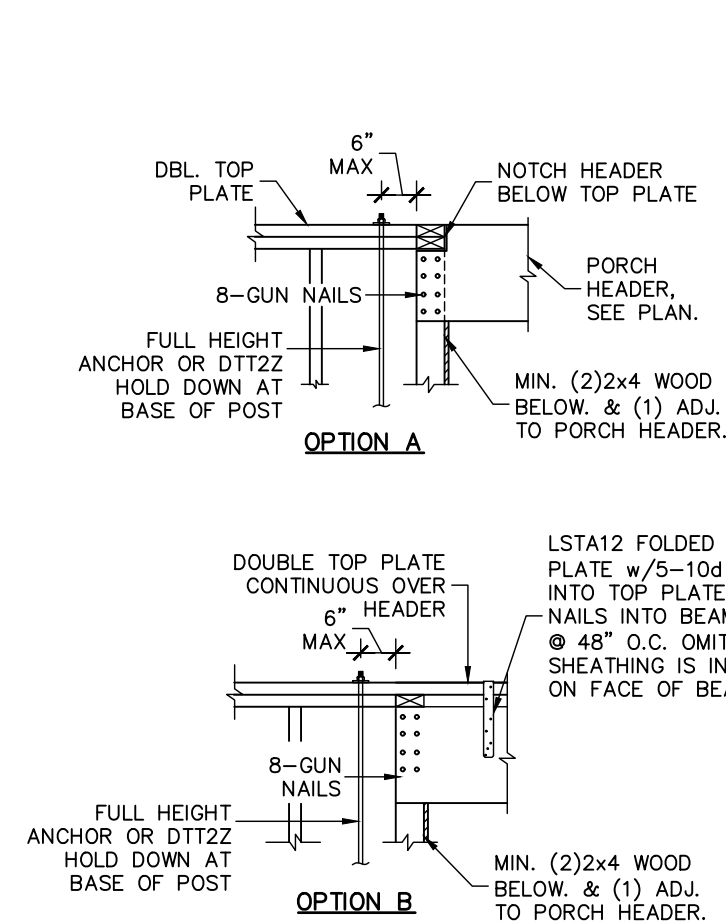


GARAGE WING WALL SECTION

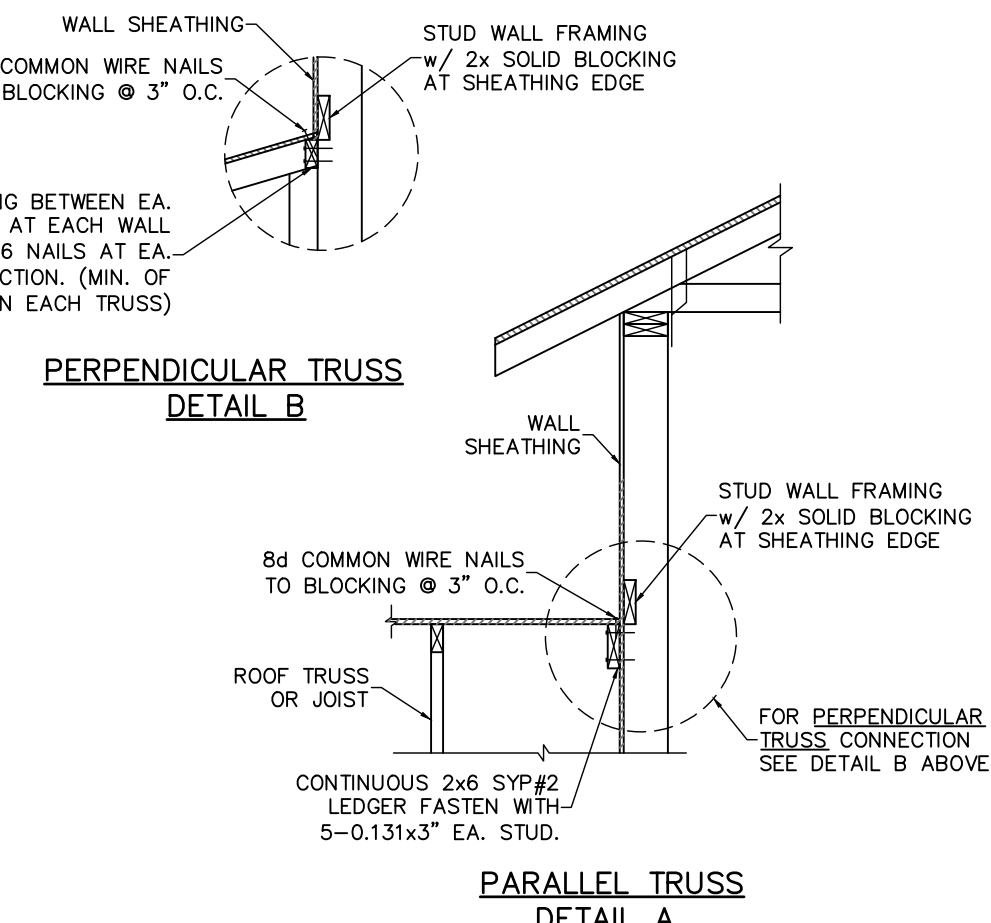
**WHEN NOTED** 1 SO.1 GARAGE HEADER FRAMING  
SCALE: N.T.S.



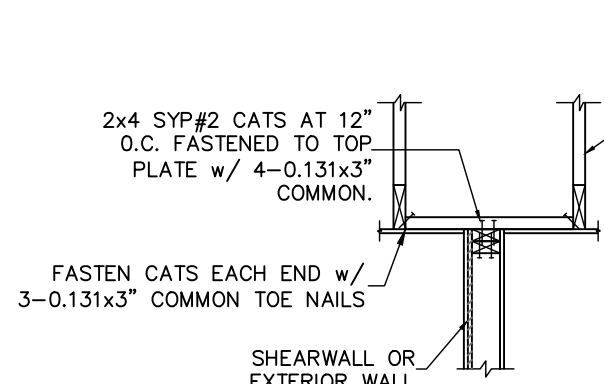
**2** TYPICAL PORCH FRAMING DETAILS  
SCALE: N.T.S.



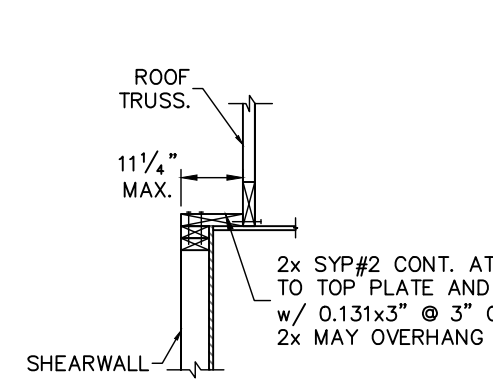
**3** TYPICAL PORCH BEAM CONNECTION  
SCALE: N.T.S.



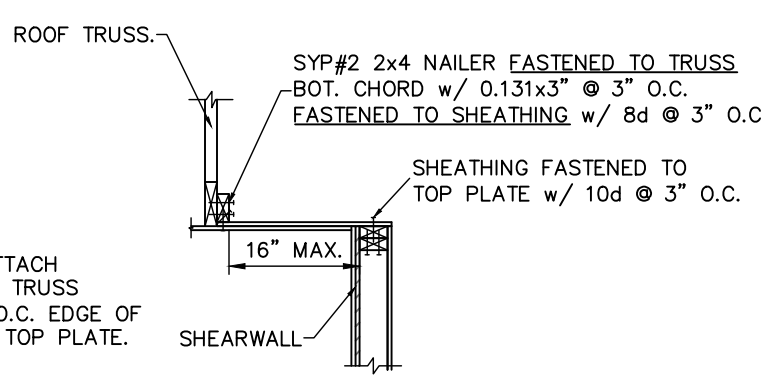
**4** WALL ADJ. TO ROOF CONNECTION  
SCALE: N.T.S.



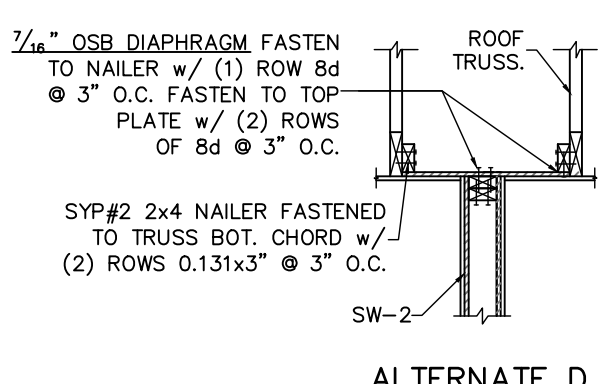
ALTERNATE A



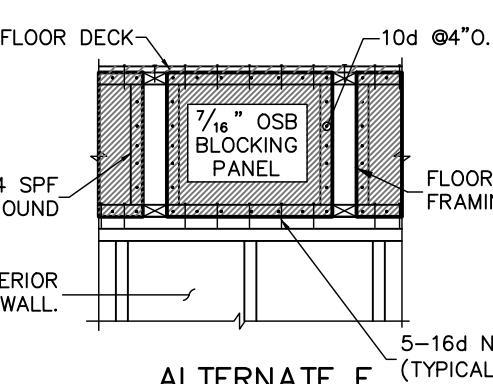
ALTERNATE B



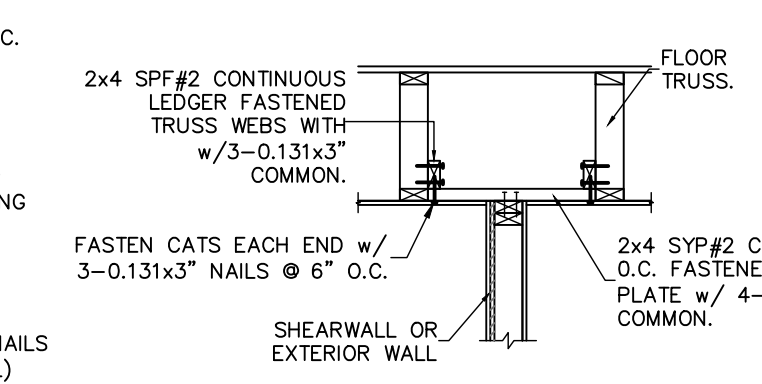
ALTERNATE C



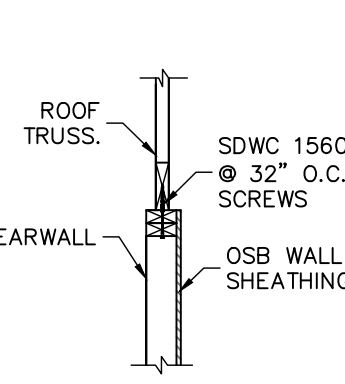
ALTERNATE D



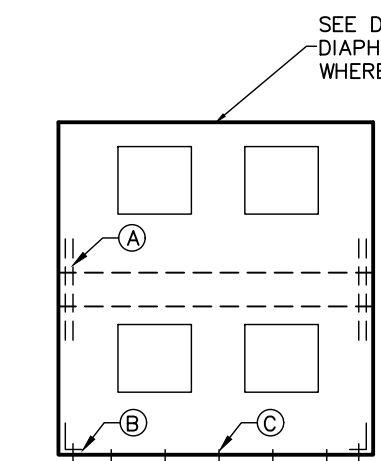
ALTERNATE E



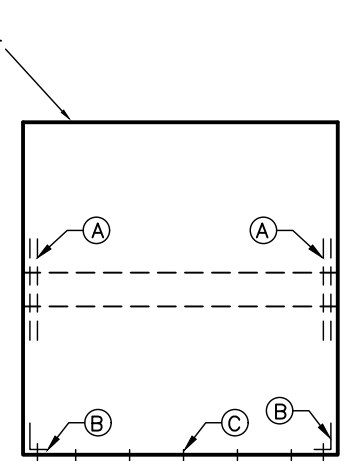
ALTERNATE F



ALTERNATE G



SW 8d@3/6" PERFORATED SHEARWALL

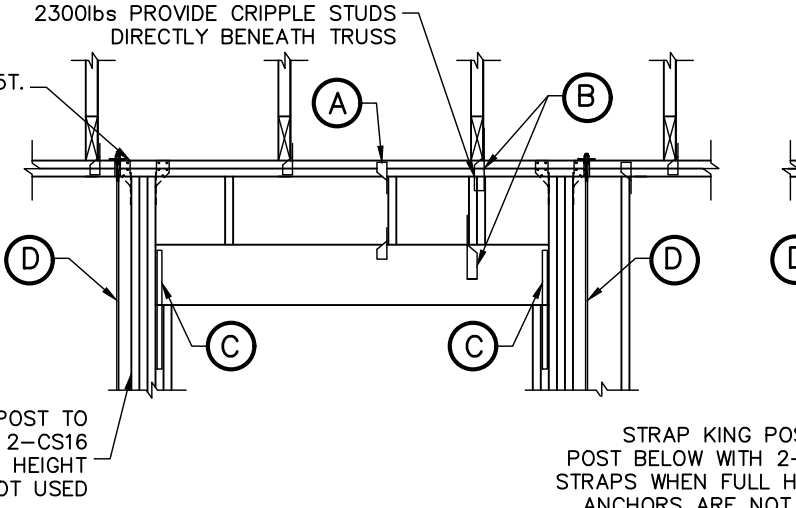


SW 8d@3/6" SEGMENTED SHEARWALL

**SHEARWALL NOTES:**  
1. AT ROOF TRUSS, CONTRACTOR MAY CHOOSE A,B,C,D, OR G.  
2. USE ALTERNATE A. AT EXTERIOR WALLS ENDING BETWEEN ROOF TRUSSES.  
3. USE ALTERNATE E & F FOR FLOOR TRUSS ATTACHMENT

**SHEARWALL NOTES:**  
1. PROVIDE 7/8" OSB SHEATHING WITH 8d COMMONS @ 3" O.C. AT PANEL BOUNDARIES AND 6" IN THE FIELD. PROVIDE 2x BLOCKING AT ALL PANEL EDGES.  
2. PROVIDE A MINIMUM OF 2 STUDS EACH END OF SHEARWALLS. KING & JACK STUDS AT HEADERS MAY SERVE AS END POSTS FOR SW.  
3. FASTEN ALL INTERIOR SW TO ROOF OR FLOOR TRUSSES PER 5/SO.1  
4. INSTALL INTERIOR FOOTING BELOW SHEARWALL PER DETAILS ON S1.0

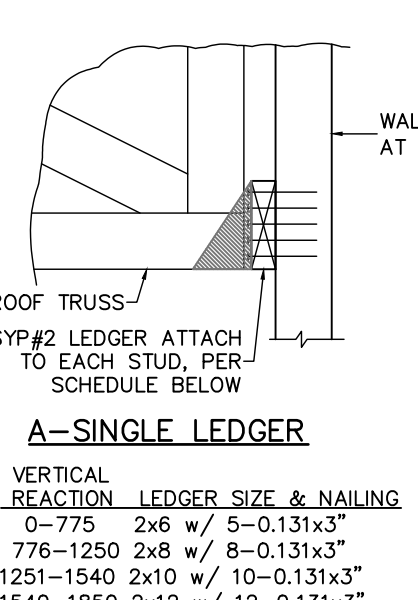
**6** TYPICAL SHEARWALL ELEVATION  
SCALE: N.T.S.



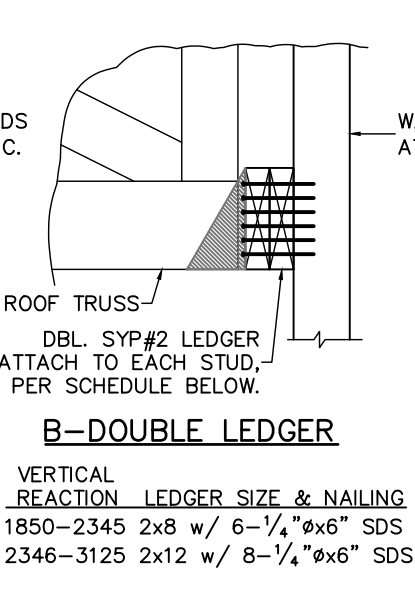
CONNECTION CALL OUT	UPLIFT CONNECTOR
A	H2.5T @ 32" O.C. TOP & BOT
B	SEE PLAN
C	(1)MSTA24 STRAPS
D	FULL HGT THREADED ROD SEE PLAN OR HTT4 HOLD DOWN AT BASE (U.O.N)

**7** HEADER TIE DOWN  
SCALE: N.T.S.

**5** SHEARWALL ATTACHMENT AT ROOF & FLOOR  
SCALE: N.T.S.



A-SINGLE LEDGER



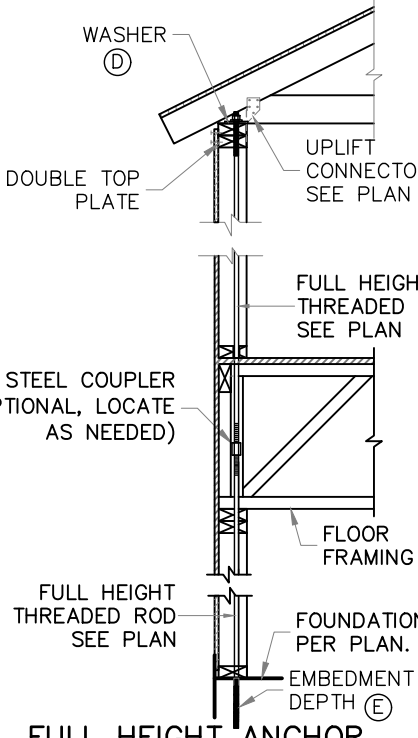
B-DOUBLE LEDGER

**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.

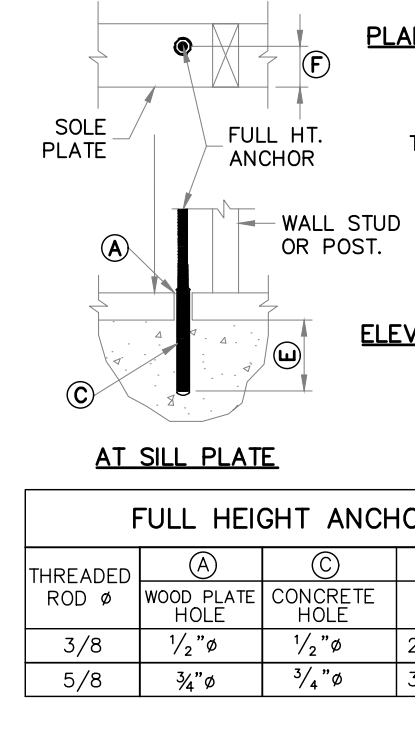
**LEDGER B NOTES:** WHERE A LEDGER IS INDICATED ON PLAN AND NO TRUSSES BEAR AT THAT LOCATION, THE LEDGER IS BEING USED TO ATTACH THE ADJACENT ROOF DECK. USE A 2x6 LEDGER PER NAILING SCHEDULE ABOVE. ATTACH ROOF DECK PER GENERAL NOTES.

**8** LEDGER CONNECTION  
SCALE: N.T.S.

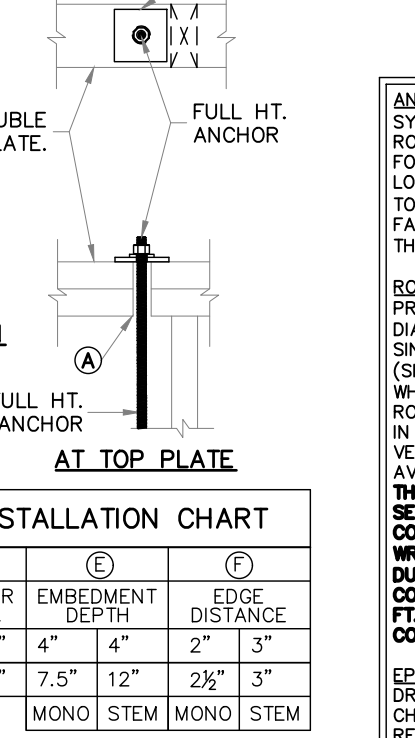
**9** DECK LEDGER AT OVERFRAME RAFTERS  
SCALE: N.T.S.



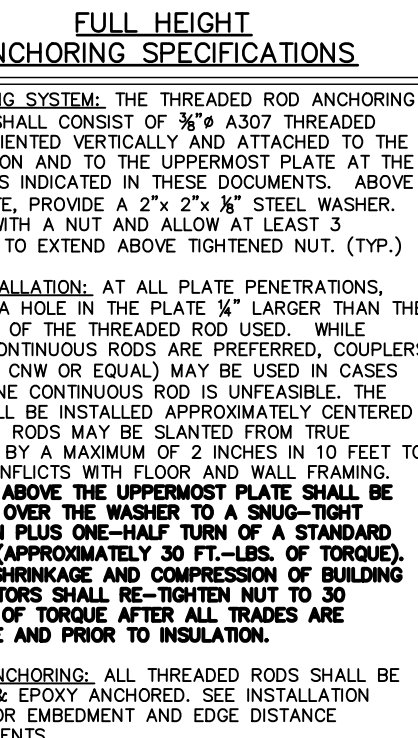
FULL HEIGHT ANCHOR



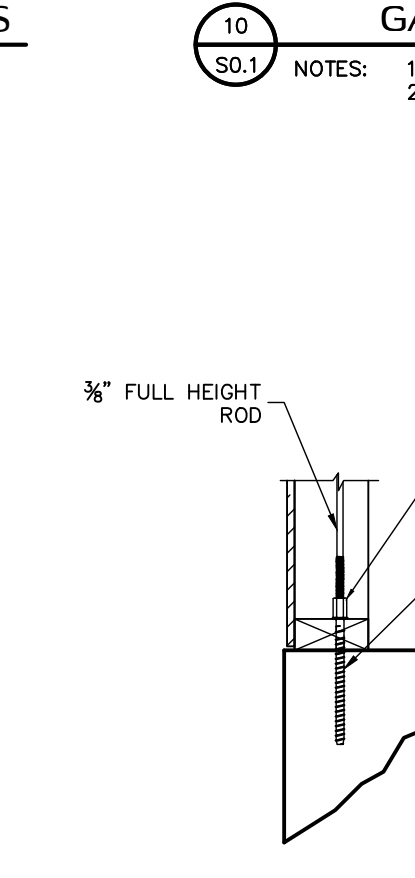
THREAD ROD INSTALLATION CHART



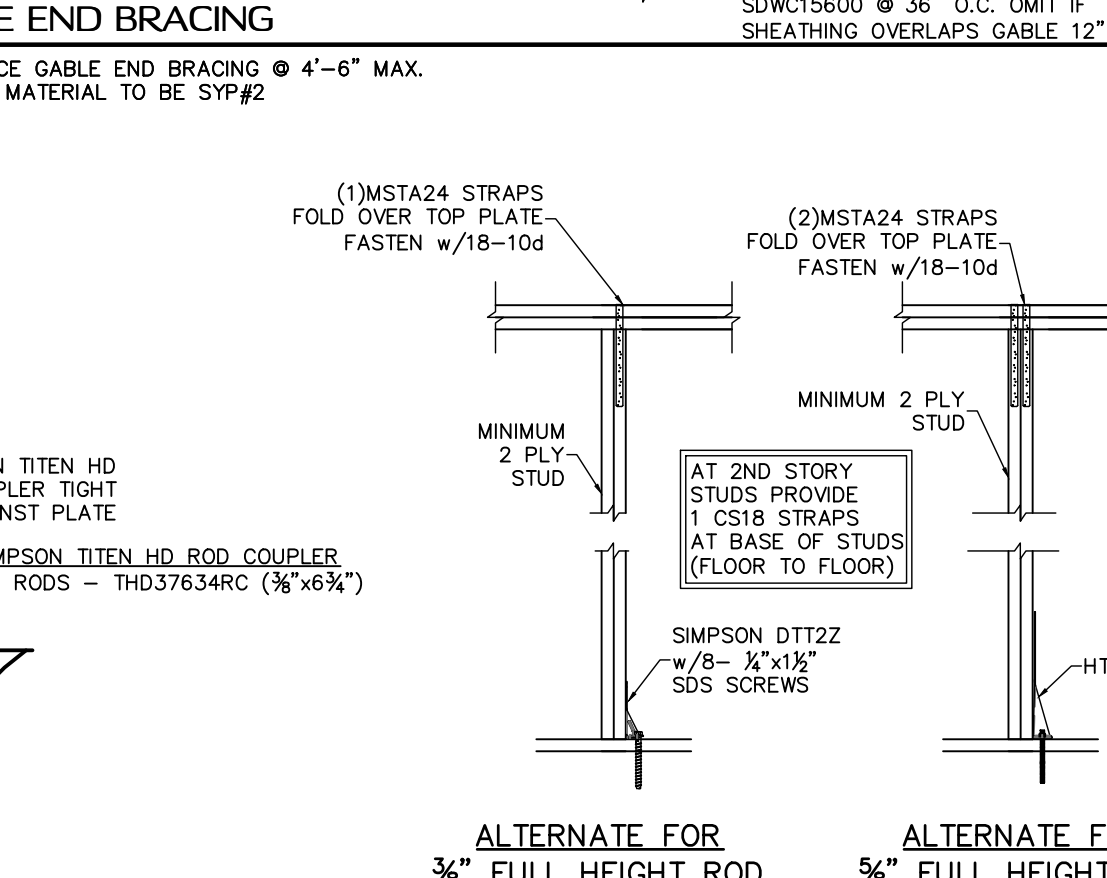
FULL HEIGHT ANCHOR INSTALLATION CHART



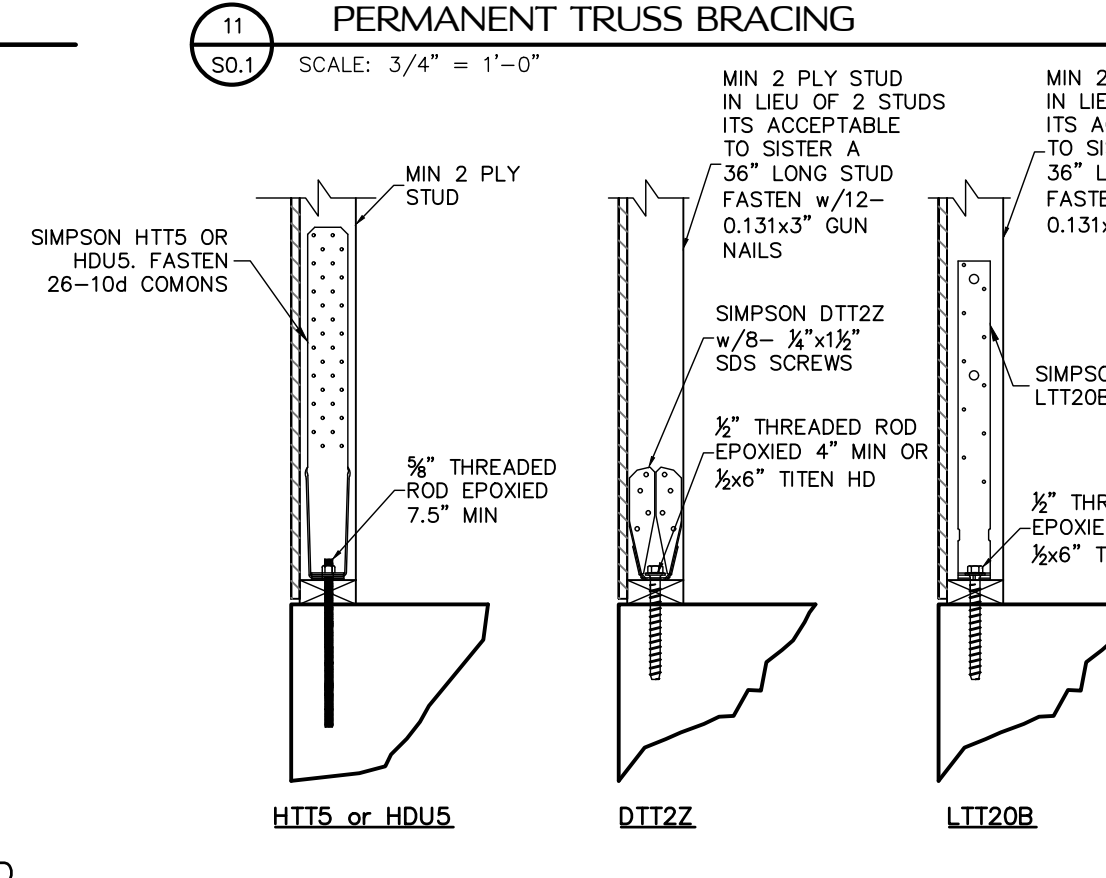
DECK LEDGER AT OVERFRAME RAFTERS



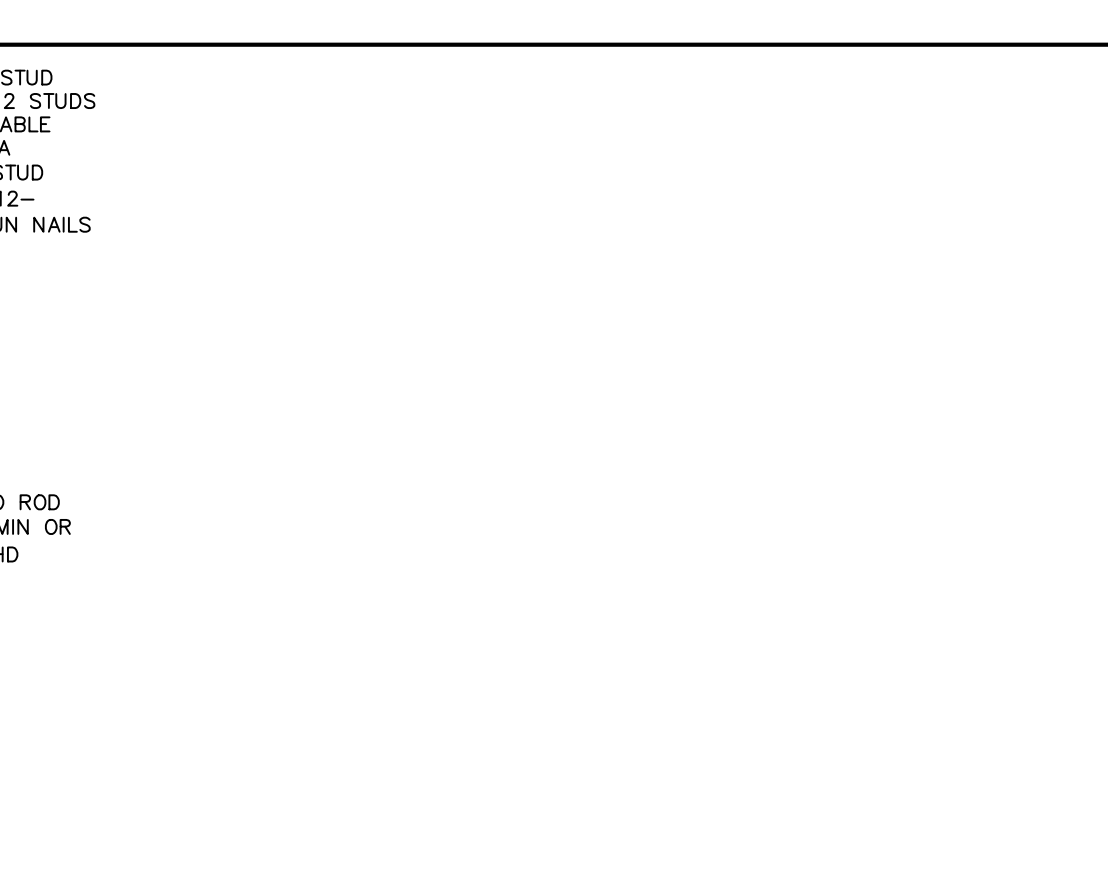
GABLE END BRACING



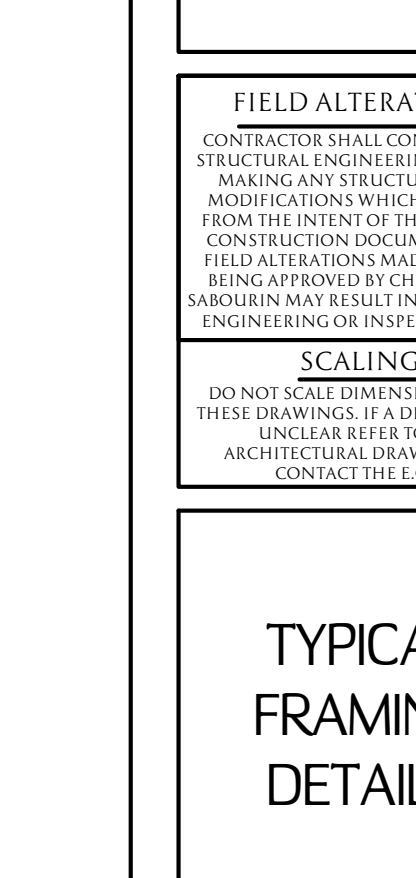
PERMANENT TRUSS BRACING



FULL HEIGHT ROD ALTERNATE ATTACHMENT



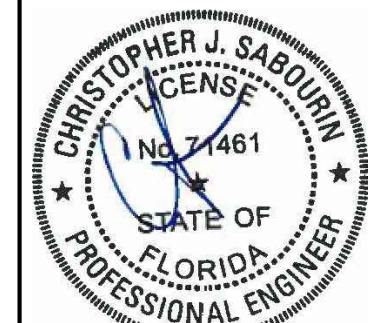
FULL HEIGHT THREADED ROD ALTERNATE



HOLD DOWN ATTACHMENT DETAIL

## SYMBOLS LEGEND

----	DESIGNATES FOOTING LINE
----	DESIGNATES SAWCUT LINE
////	INTERIOR LOAD BEARING WALL
////	DESIGNATES SLAB RECESS



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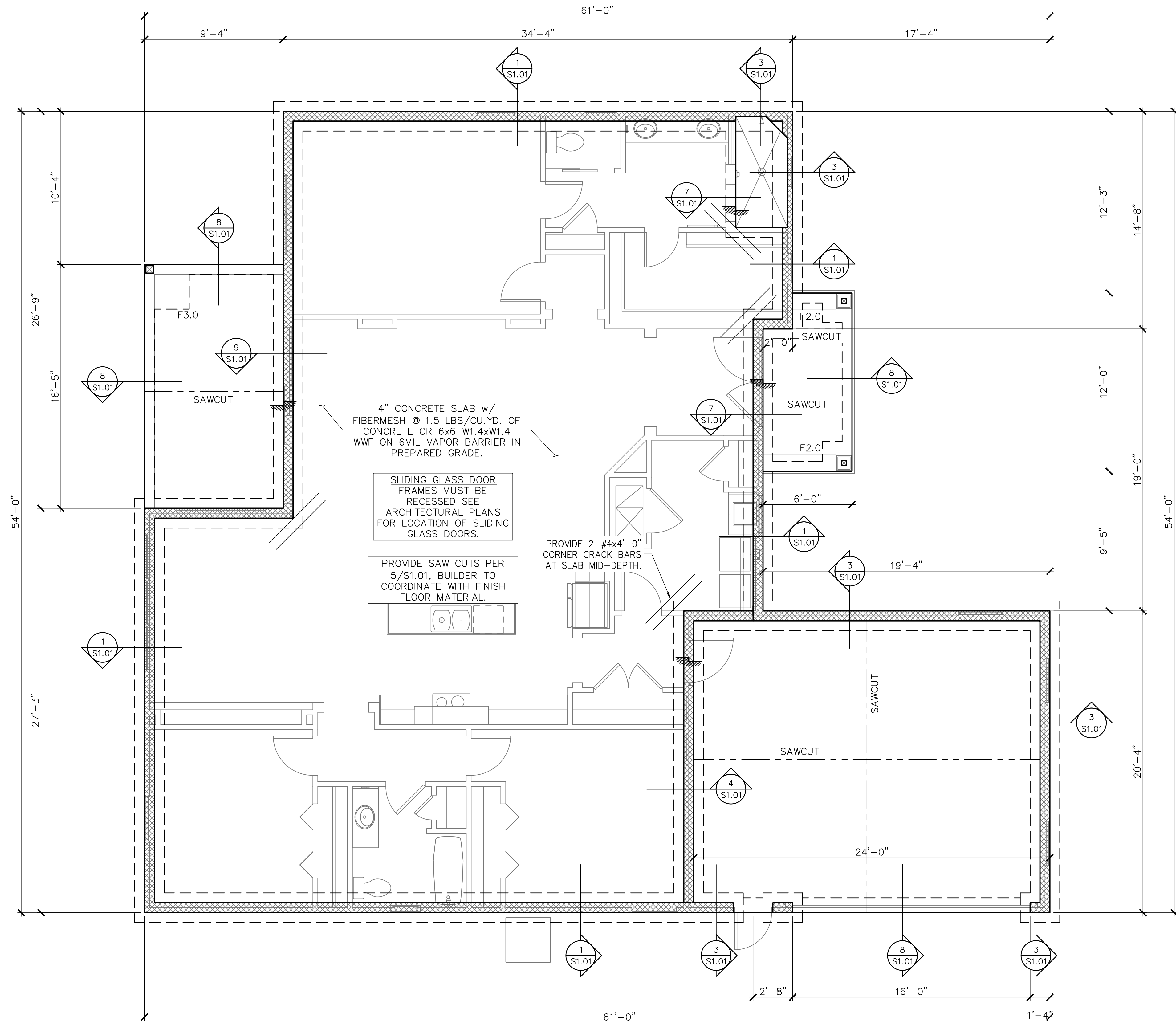
STRUCTURAL ENGINEERING FOR  
THE ARATA RESIDENCE

**FIELD ALTERATION**  
CONTRACTOR SHALL CONTACT SABO  
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SABOURIN MAY RESULT IN ADDITIONAL  
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**SCALING**  
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FOUNDATION  
PLAN

SHEET  
**S1.0**  
SHEET 3 OF 7



## FOUNDATION PLAN

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

## FOOTING SCHEDULE AND NOTES

TYPE	LENGTH	WIDTH	DEPTH	BOTTOM BARS
F2.0	2'-0"	2'-0"	1'-0"	3-#5 EA. WAY BOT.
F2.5	2'-6"	2'-6"	1'-0"	3-#5 EA. WAY BOT.
F3.0	3'-0"	3'-0"	1'-0"	3-#5 EA. WAY BOT.
F3.5	3'-6"	3'-6"	1'-0"	4-#5 EA. WAY BOT.
F4.0	4'-0"	4'-0"	1'-0"	4-#5 EA. WAY BOT.
F4.5	4'-6"	4'-6"	1'-0"	4-#5 EA. WAY BOT.

1. THIS FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFO. RELATED TO THE FOUNDATION. FOR GENERAL FEATURES, DIMENSIONS, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ECT., SEE ARCH. PLAN. ARCHITECTURAL PLAN SHOWN HERE IN FOR REFERENCE ONLY.

2. FTGS. & FND. SHALL BE IN ACCORDANCE w/ LOCAL BUILDING CODES.

3. SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN. OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557.



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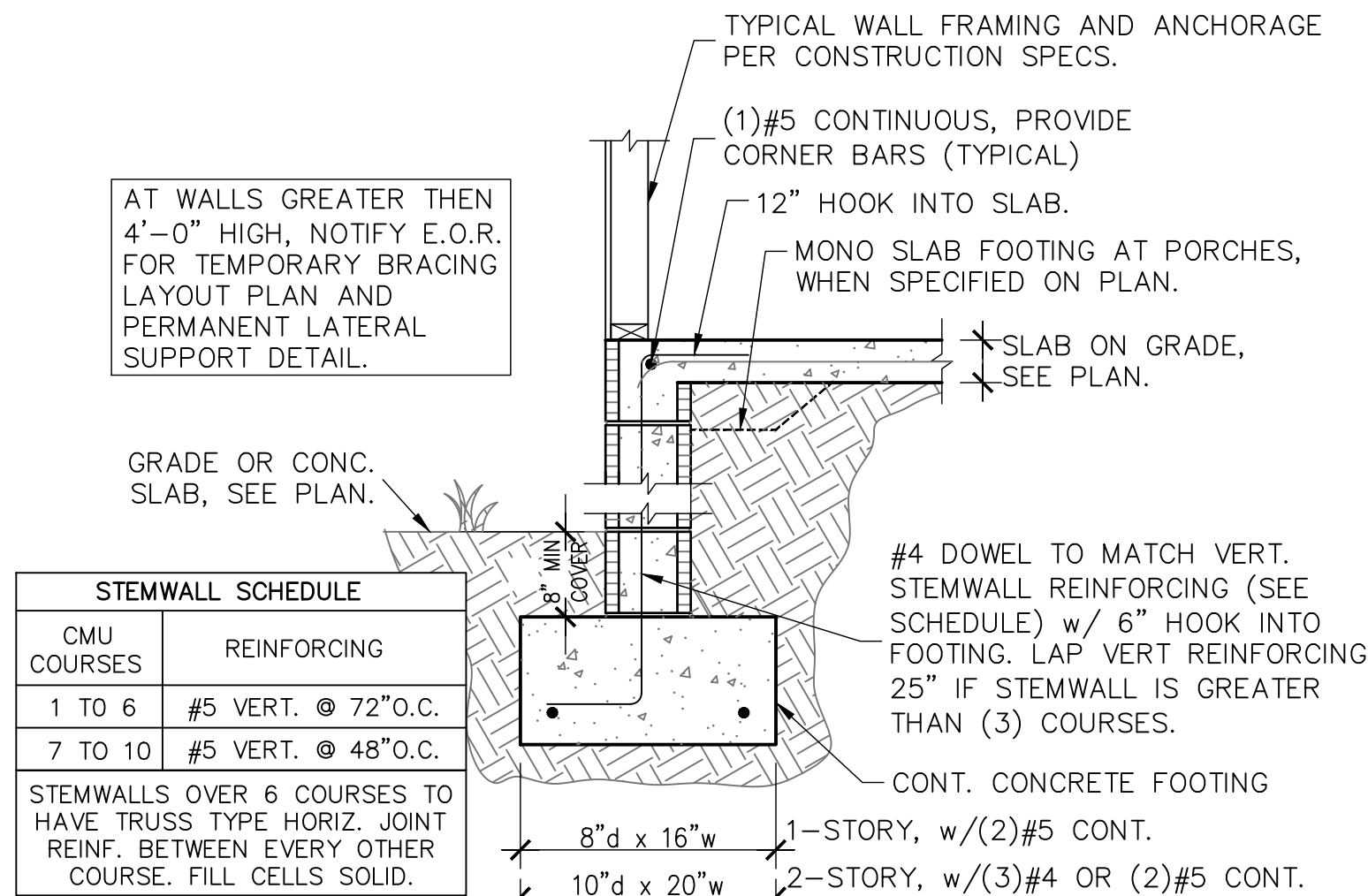
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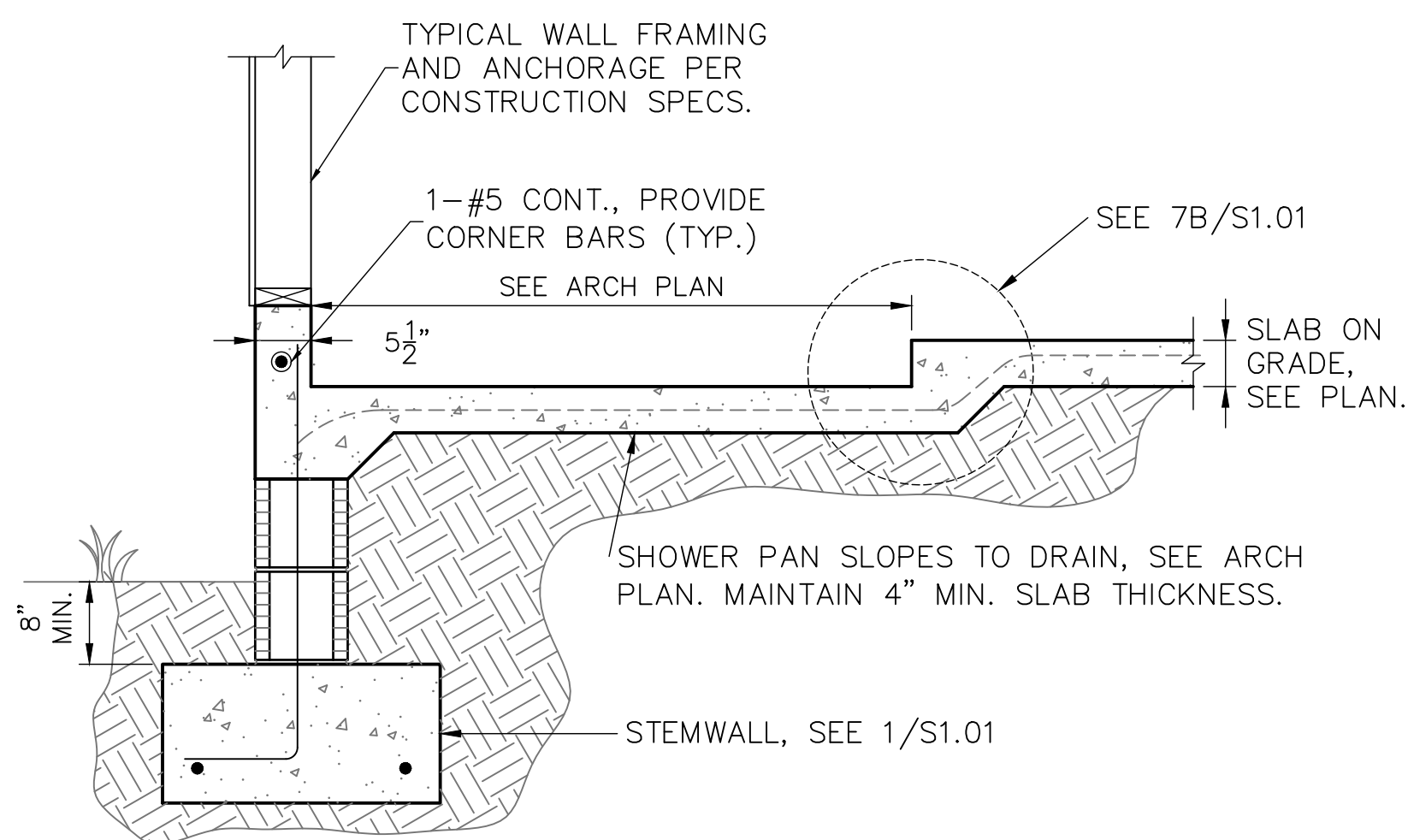
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FOUNDATION  
DETAILS

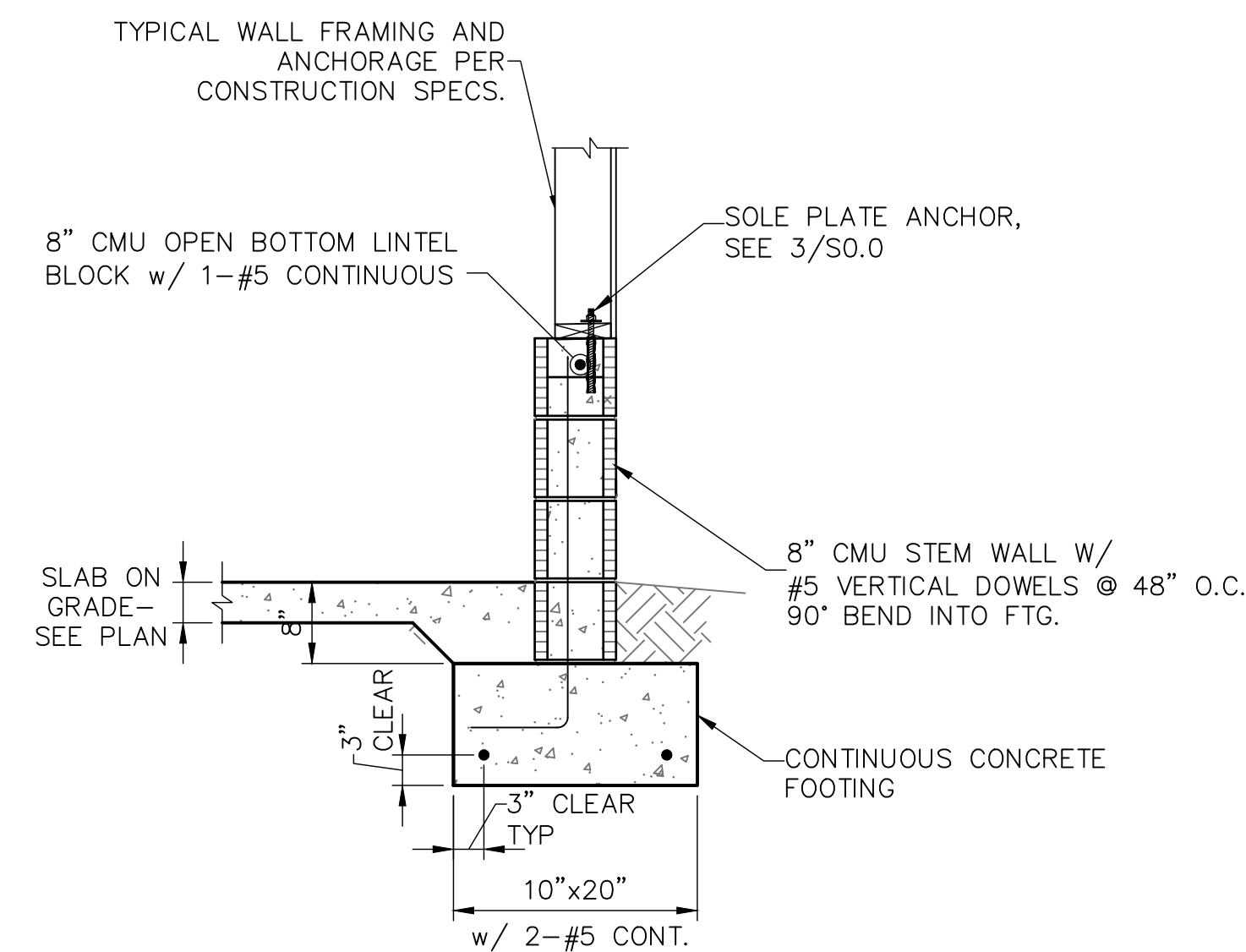
SHEET  
**S1.01**  
SHEET 4 OF 7



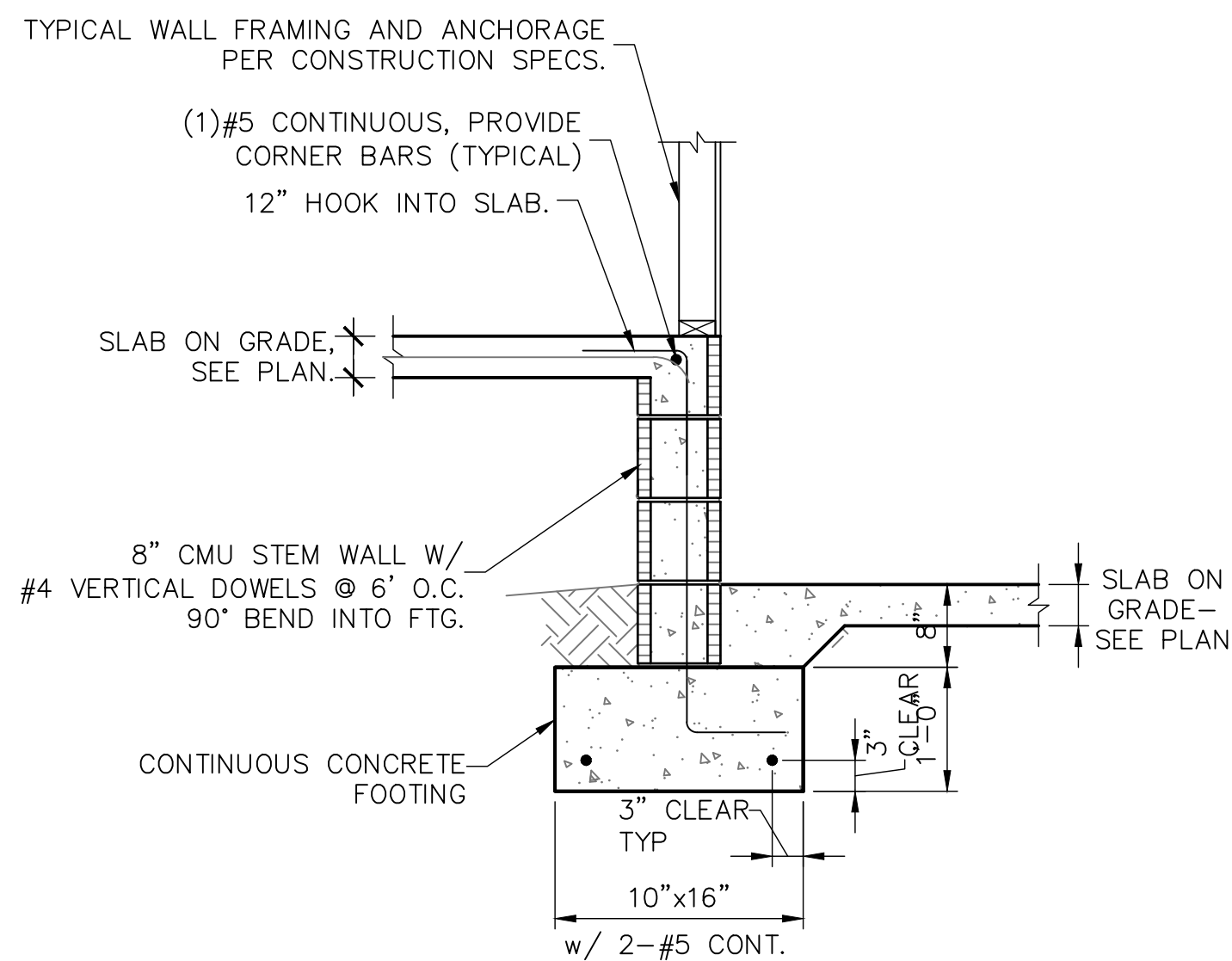
1 STEMWALL FOOTING  
S1.01 SCALE: 3/4" = 1'-0"



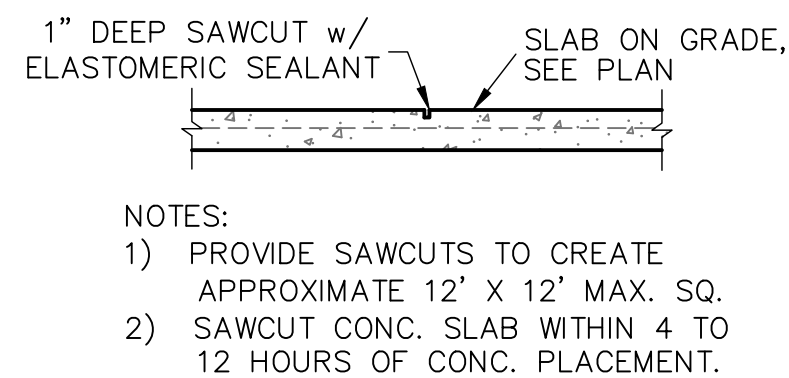
2 FOOTING W/ SHOWER RECESS  
S1.01 SCALE: 3/4" = 1'-0"



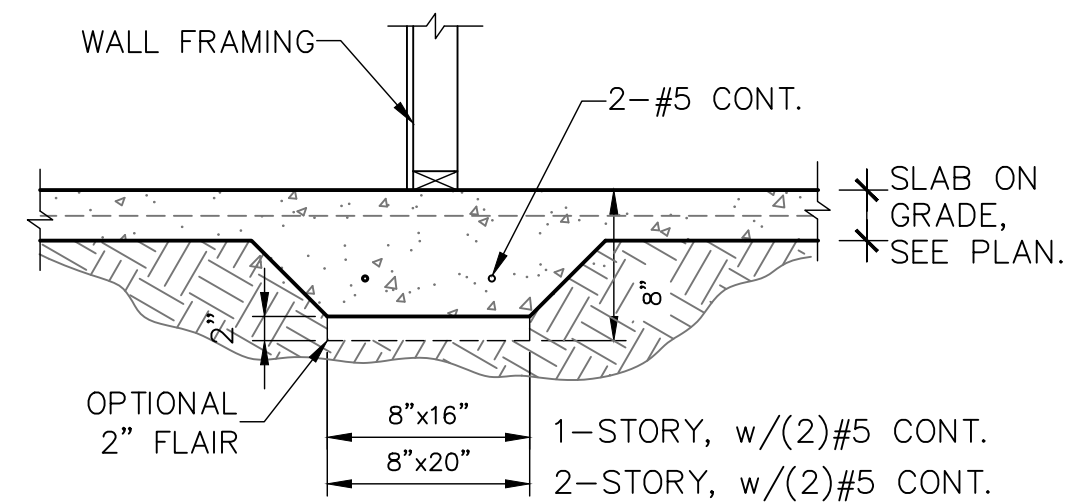
3 GARAGE STEM WALL  
S1.01 SCALE: 3/4" = 1'-0"



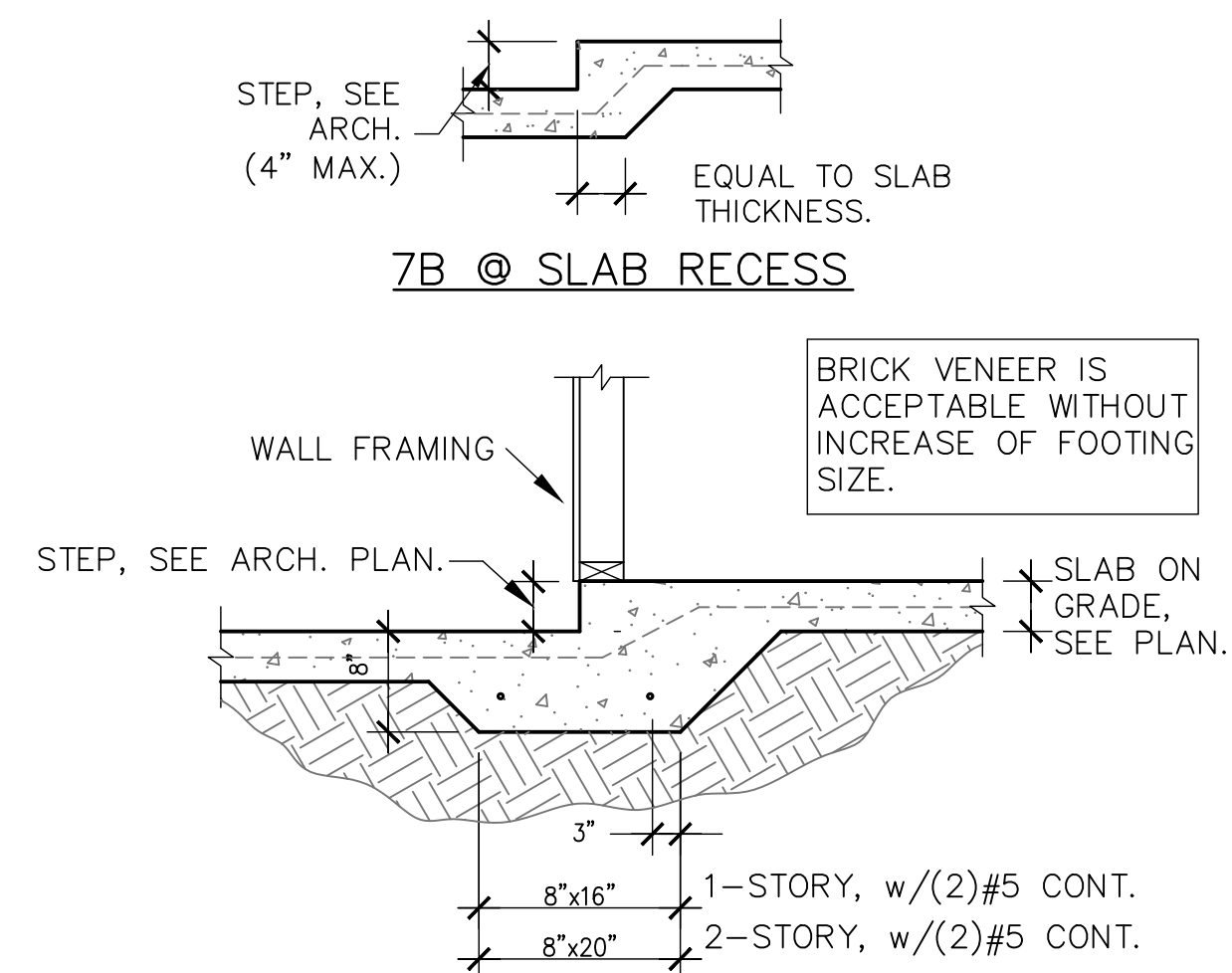
4 STEMWALL AT GARAGE  
S1.01 SCALE: 3/4" = 1'-0"



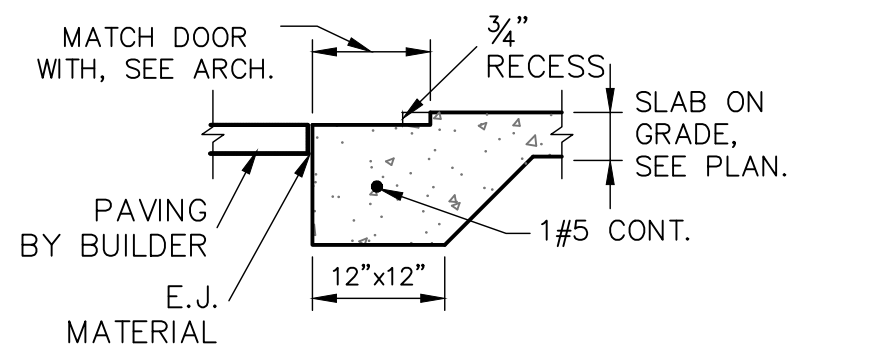
5 SAW CUT DETAIL  
S1.01 SCALE: 3/4" = 1'-0"



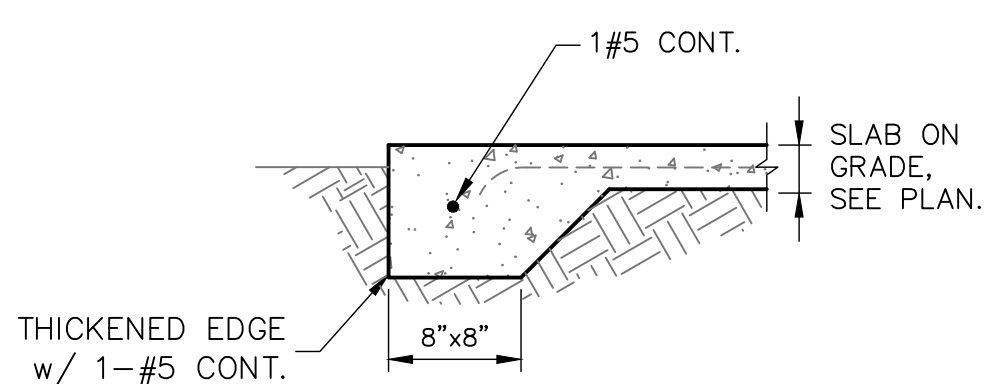
6 BEARING AT INTERIOR  
S1.01 SCALE: 3/4" = 1'-0"



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

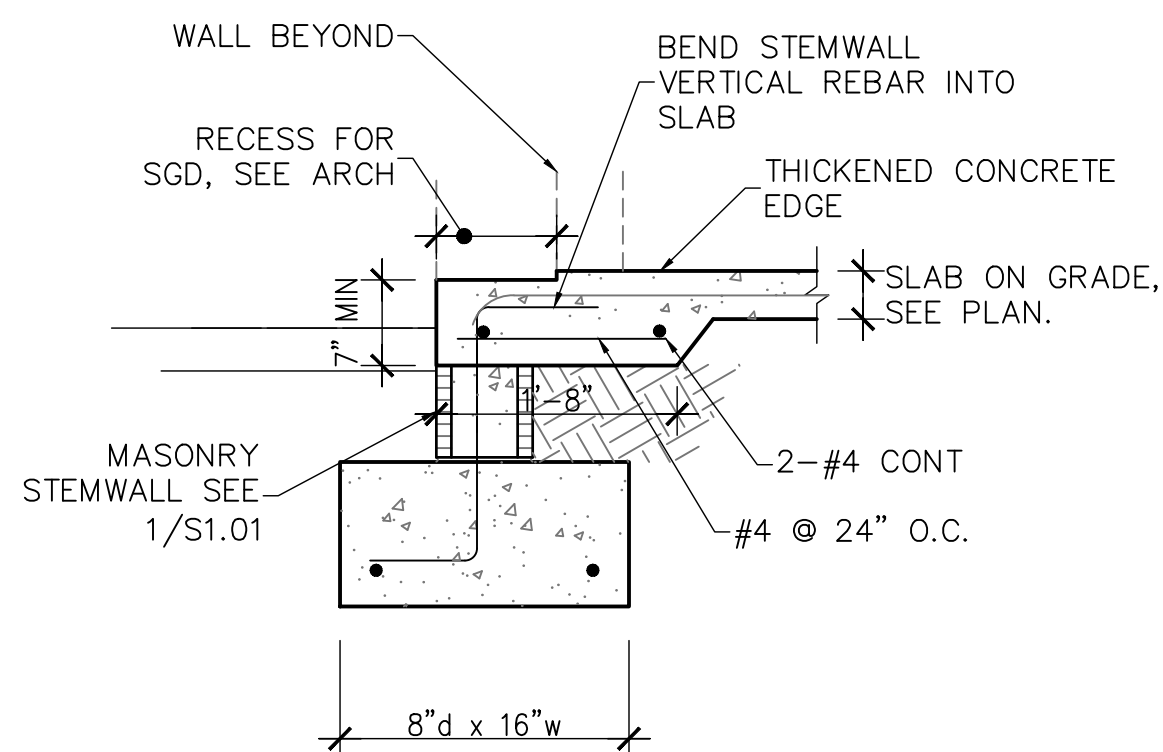


AT GARAGES



AT PORCHES

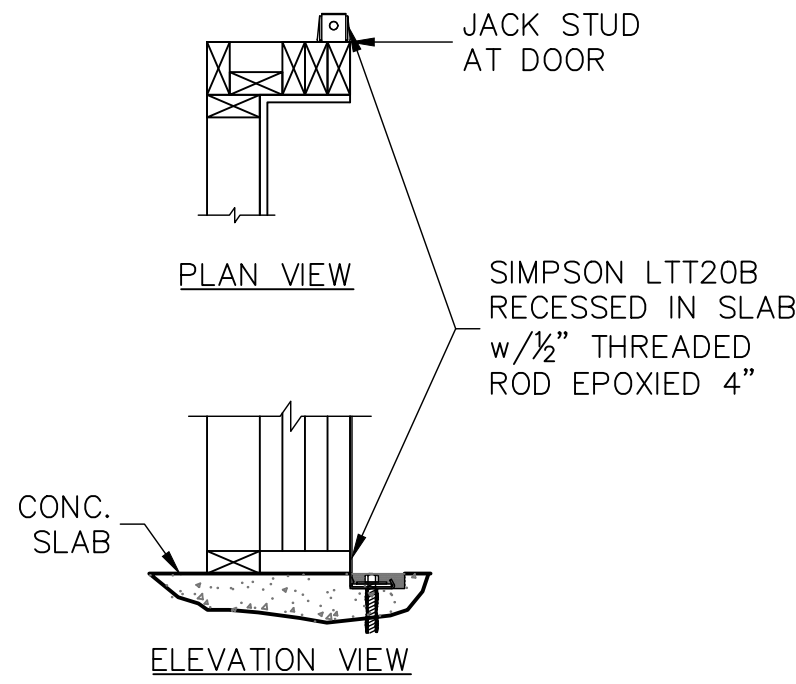
8 THICKENED SLAB  
S1.01 SCALE: 3/4" = 1'-0"



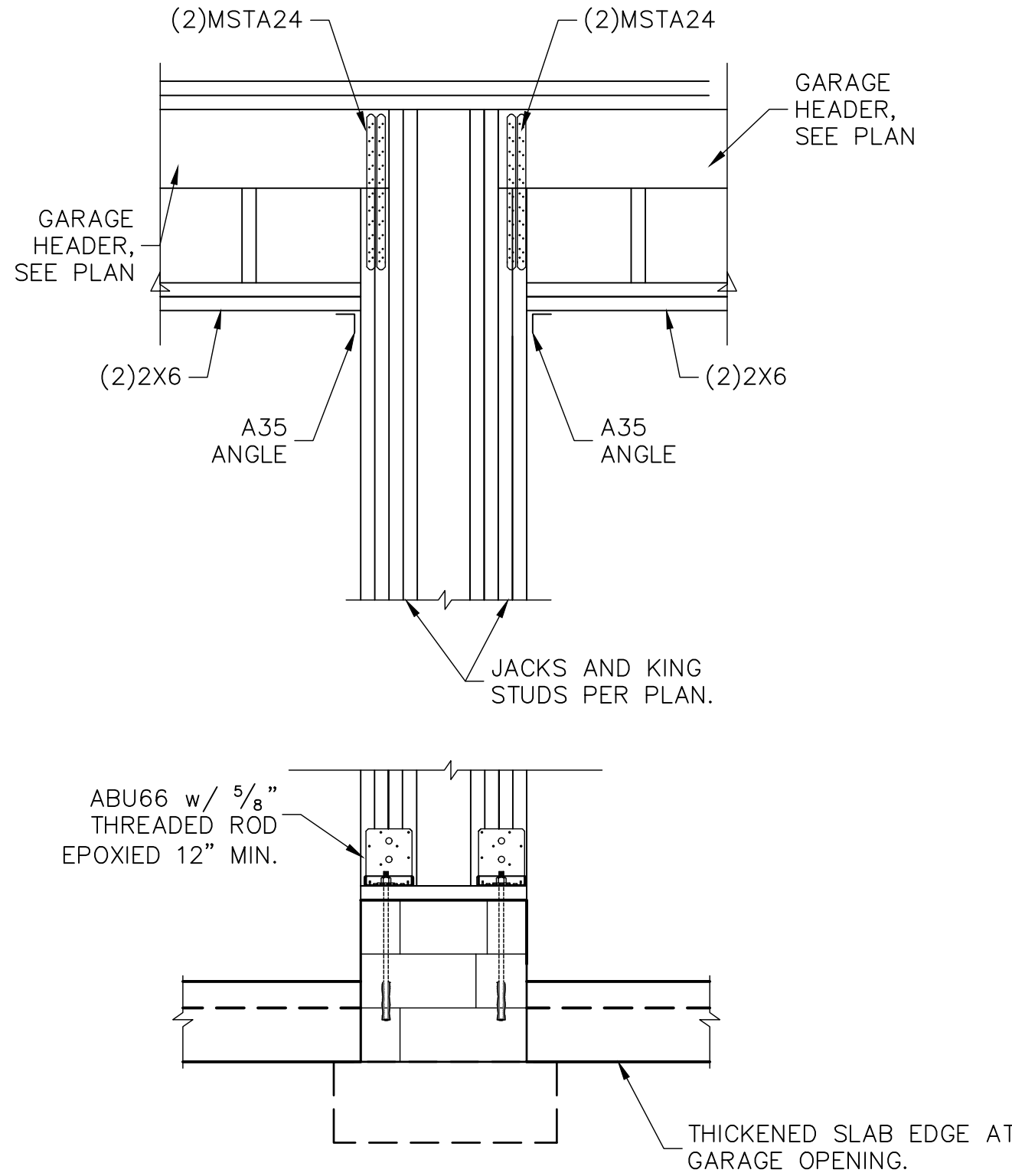
9 STEMWALL FOOTING AT SLIDER  
S1.01 SCALE: 3/4" = 1'-0"







**1 DOOR JAMB FASTENING**  
THIS DETAIL ONLY APPLIES WHEN NOTED ON PLAN



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



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MISC  
DETAILS

SHEET  
**S2.0**  
SHEET 7 OF 7