DESIGN SPECIFICATIONS

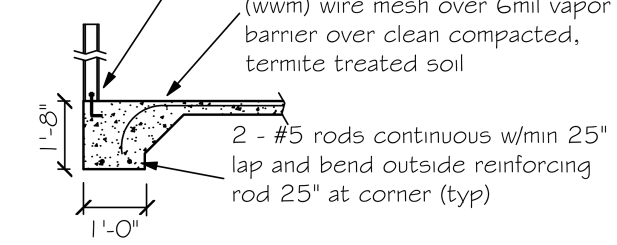
- DESIGN CODES:
  2023 FLORIDA BUILDING CODE (FBC) - RESIDENTIAL
- OCCUPANCY: RESIDENTIAL GROUP R-3 (ONE- AND TWO-FAMILY DWELLINGS
- DESIGN LOADS:
  ROOF CONVENTIONAL FRAMING:
  LL 20 PSF RAFTERS
  LL 20 PSF CEILING JOISTS
  DL 10 PSF RAFTERS
  DL 10 PSF CEILING JOISTS
  DL 30 PSF ATTICS WITH STORAGE
  DL 10 PSF ATTICS W/O STORAGE
  FLOORS:
  LL 40 PSF TOP CHORD
  LL 0 PSF BOTTOM CHORD
  DL 10 PSF TOP CHORD
  DL 5 PSF BOTTOM CHORD
- NUMBER OF STORIES: 1
- TYPE OF CONSTRUCTION: TYPE V-6, UNPROTECTED, UNSPRINKLERED
- WIND ZONE INFORMATION
  BUILDING: ENCLOSED STRUCTURE
  ULTIMATE DESIGN WIND SPEED: 130 MPH
  NOMINAL DESIGN WIND SPEED: 110 MPH
  BUILDING RISK CATEGORY: II
  WIND EXPOSURE CATEGORY: C
  INTERNAL PRESSURE COEFFICIENT: 0.18 CGpi ±

FOUNDATION NOTES

1. REFER TO ARCHITECTURAL & BUILDING PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC.
2. CONTRACTOR SHALL VERIFY ALL ROUGH PLUMBING LOCATIONS WITH OWNER PRIOR TO POURING SLAB
3. THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED w/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL
4. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 6" BELOW UNDISTURBED SOIL OR ENGINEERED FILL

NOTES:

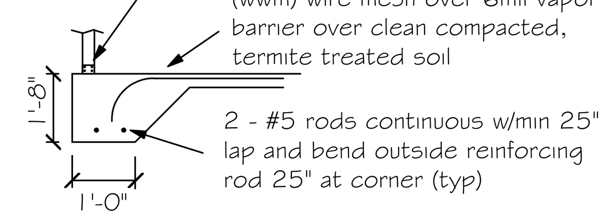
1. SOIL UNDER FOOTING SHALL BE COMPRESSED TO 2000 PSF AT 95% DENSITY. CONCRETE STRENGTH SHALL BE 2500 PSI.
2. WALL CONCRETE: 3000 PSI, 6-1/2" SLUMP & 3/8" AGGREGATE



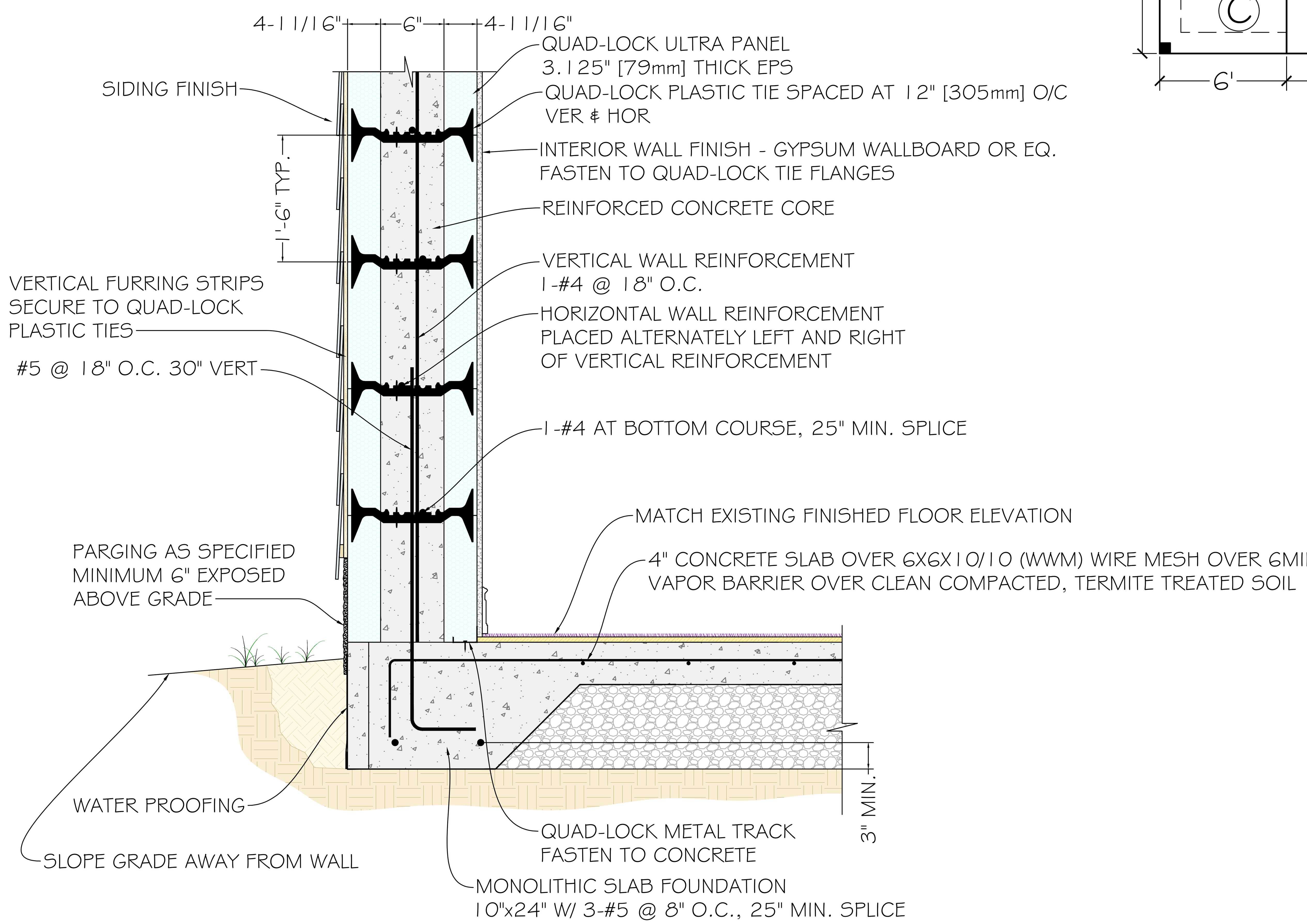
(A) Monolythic slab detail

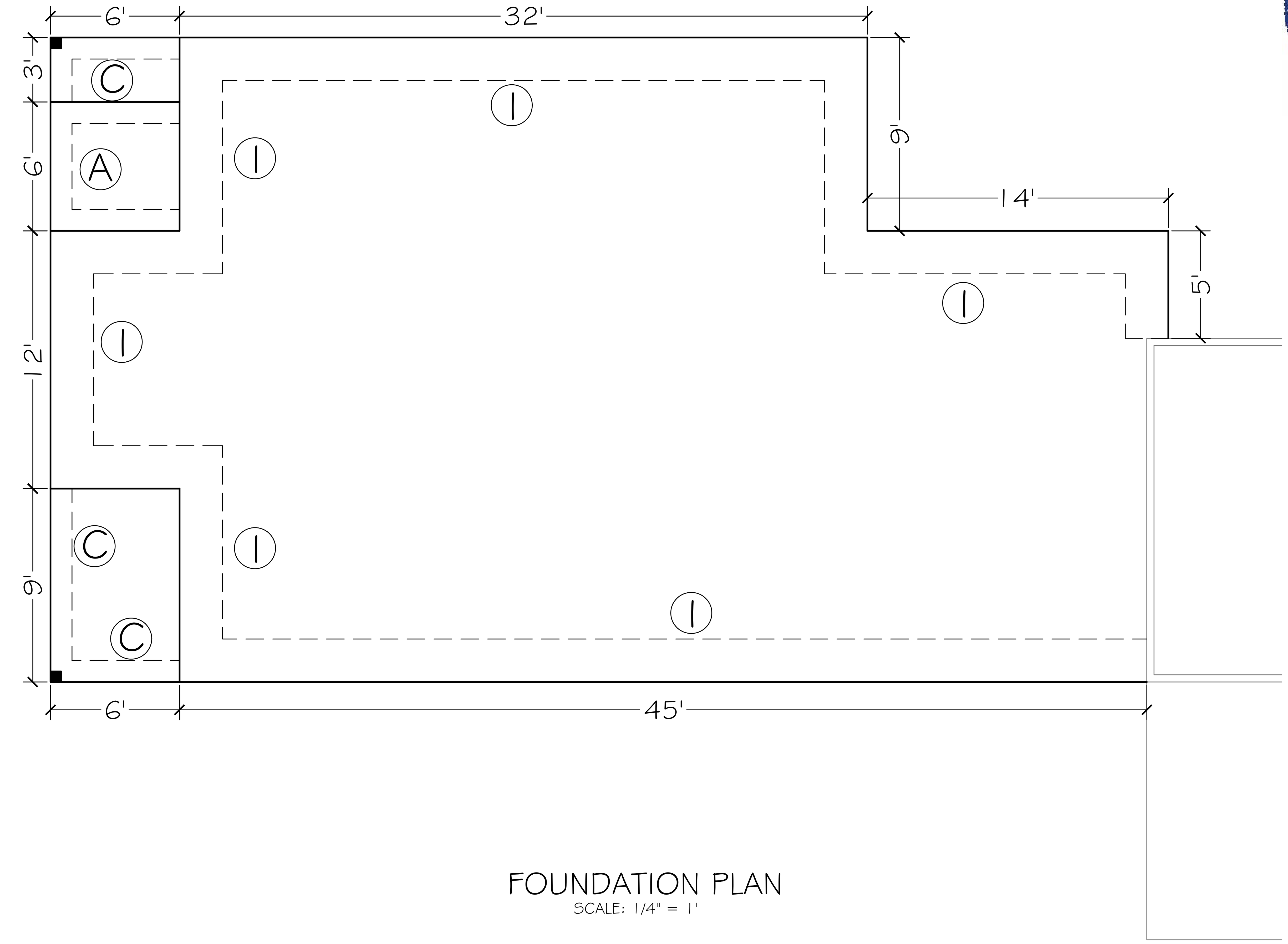
NOTE:

1. POST SADDLE MAY BE USED IN LIEU OF ABA66z



(C) Monolythic slab detail at porch





FOUNDATION PLAN

SCALE: 1/4" = 1'

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

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CAROL J. CHADWICK
LICENSE
No. 82560
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE	REVISION DESCRIPTION

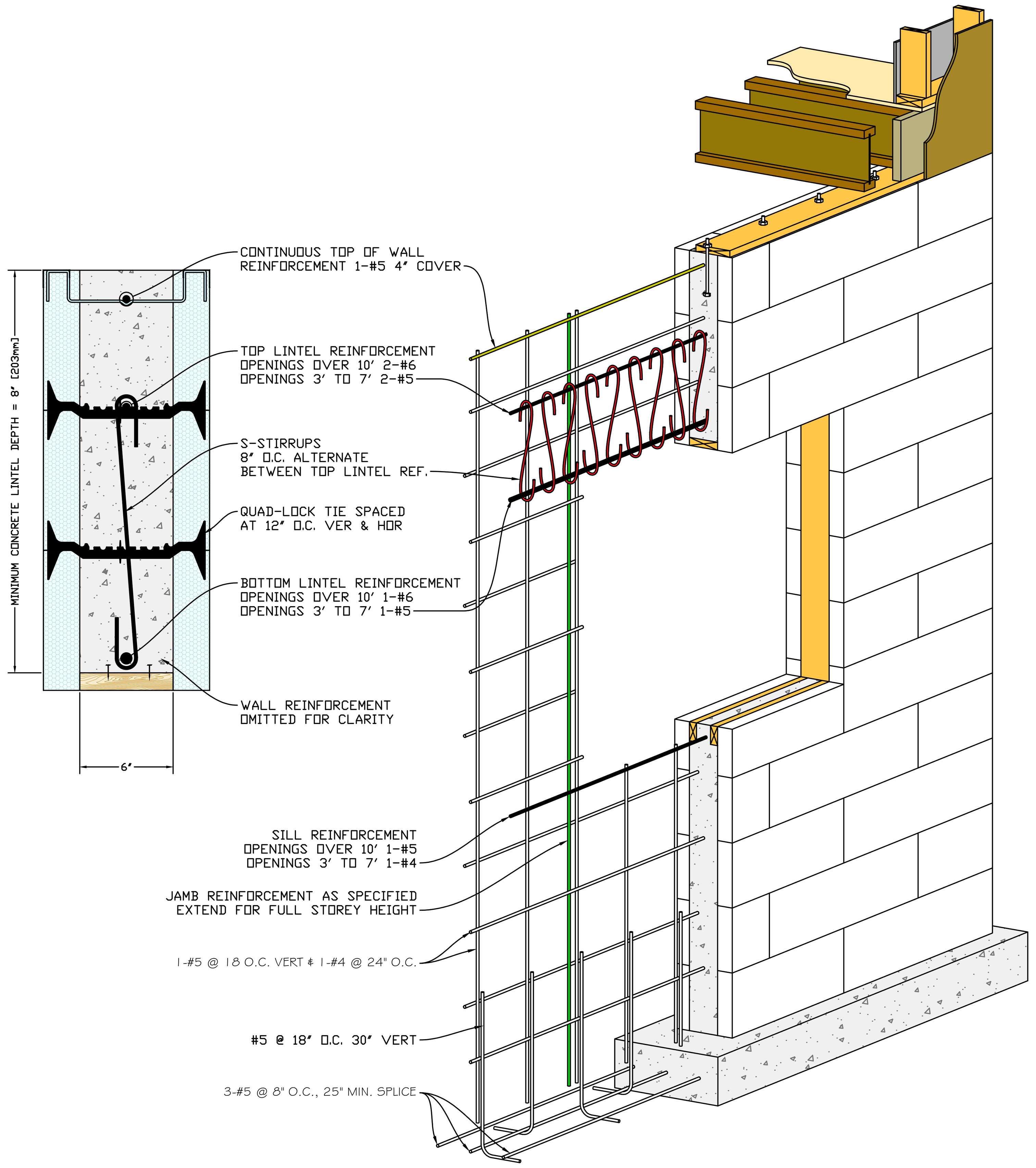
PREPARED FOR
TIM HARVEY
603.726.6050

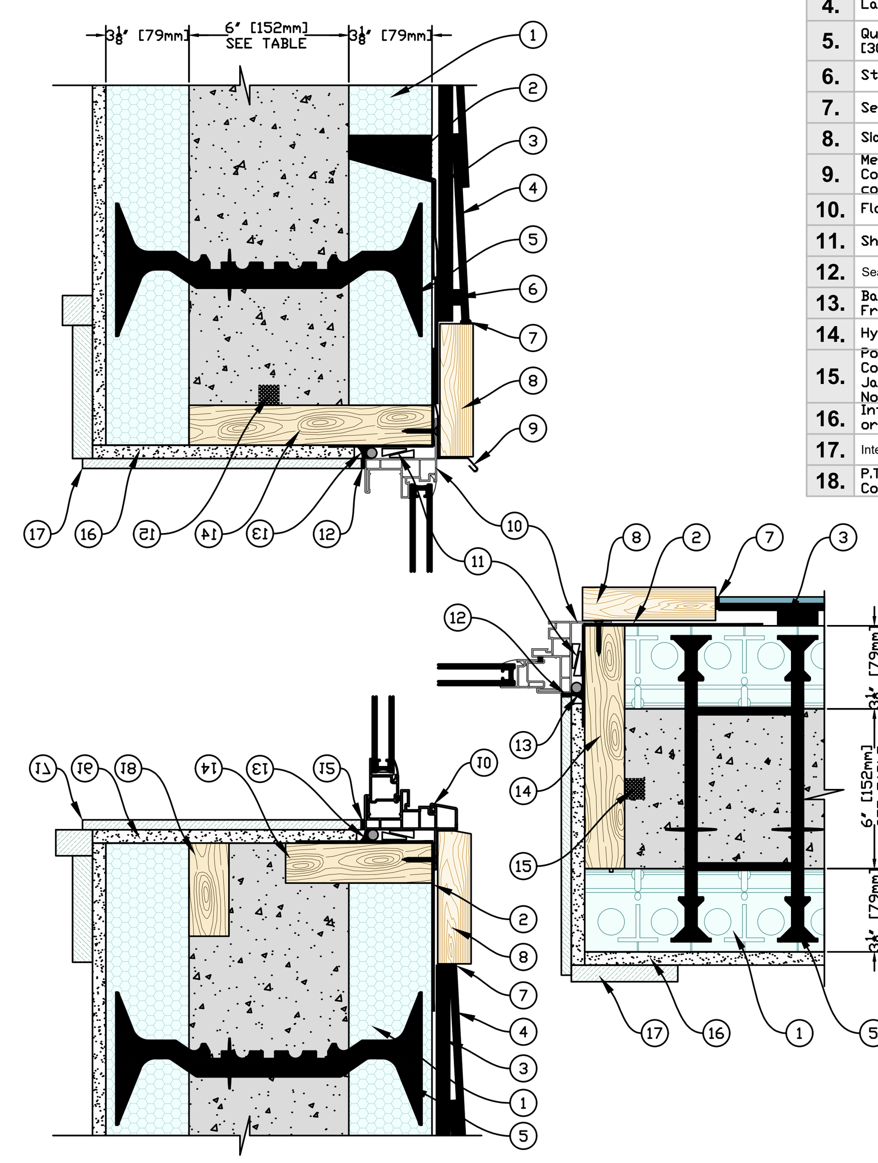
HARVEY ADDITION
FOUNDATION PLAN
1101 SW HIGH FIELD TERRACE, LAKE CITY, FL

PROJECT NO. FL22044
DATE MAY 5, 2024
REVISION DATE
SHEET S-1

Digitally signed by Carol Chadwick
DN: c=US, o=Florida, dnQualifier=A01410D0000018D463B4E7500032FFE, cn=Carol Chadwick
Date: 2024.05.05 12:32:11 -04'00'

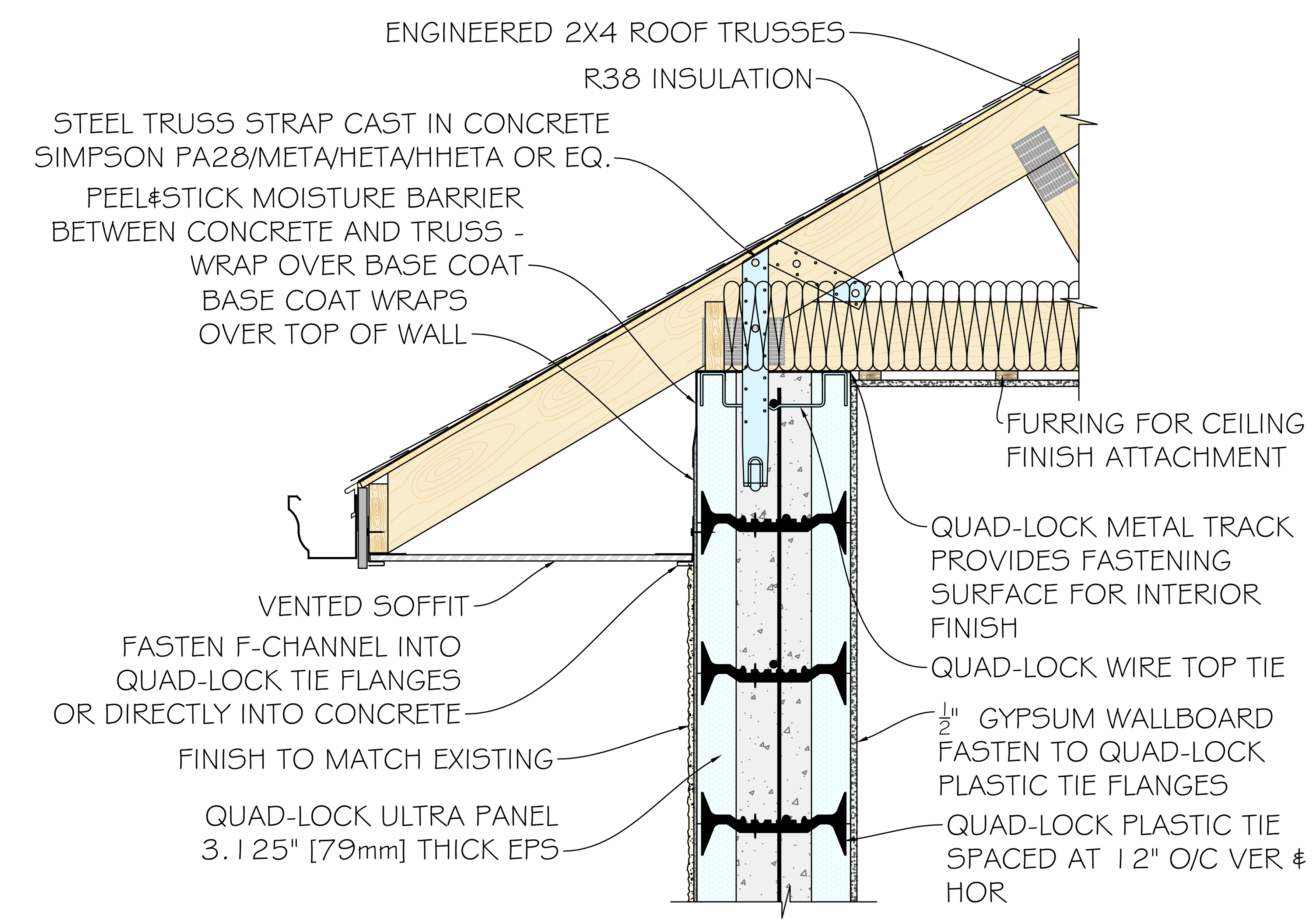
This item has been digitally signed and sealed by Carol Chadwick, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

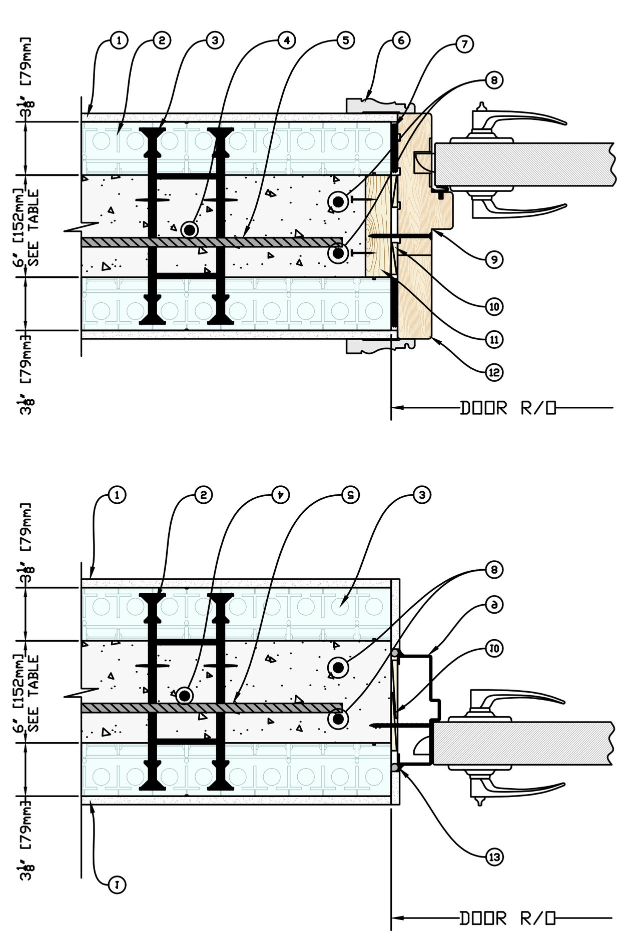




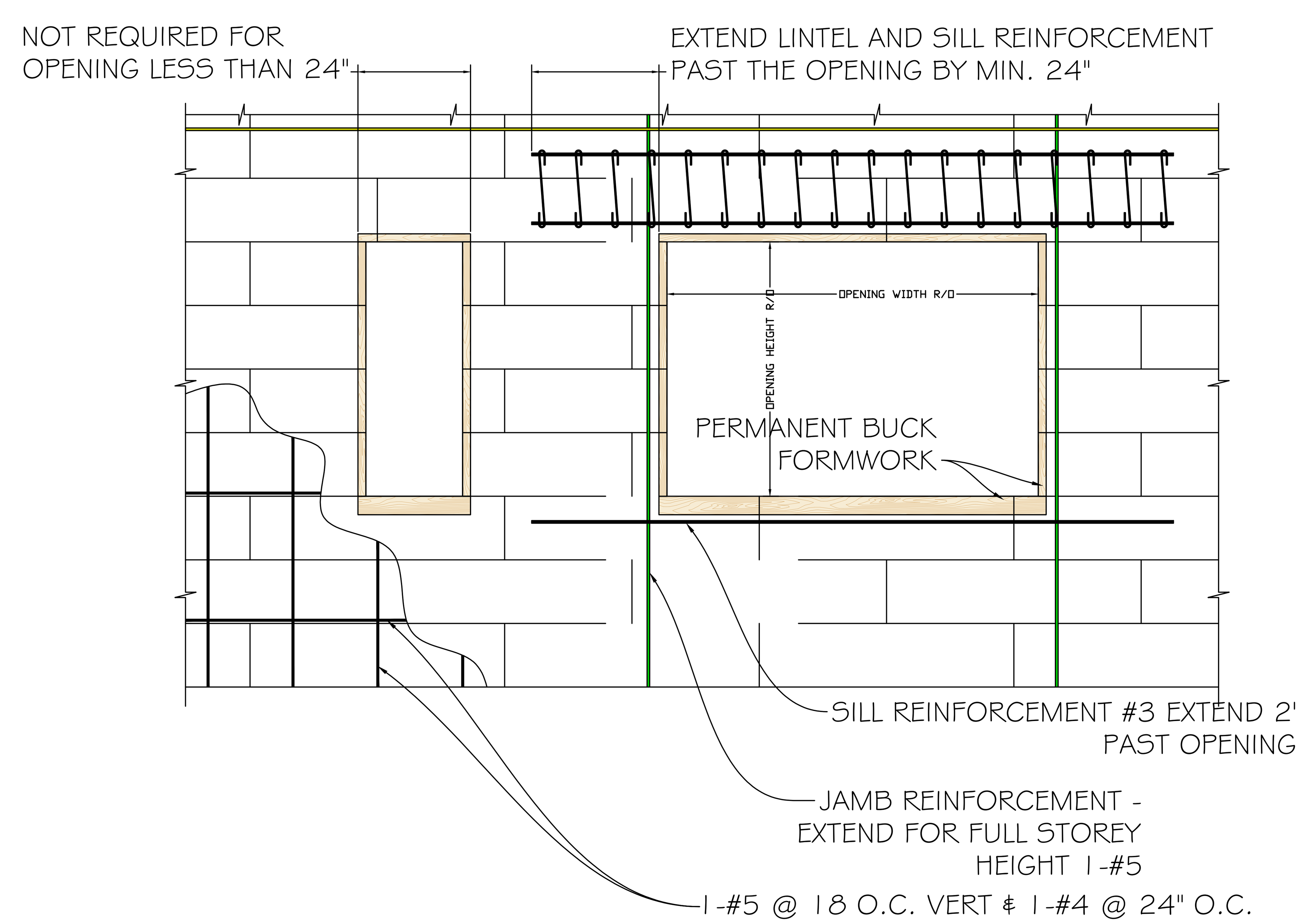
1.	Quad-Lock Ultra Panel - 3.125" [79mm] Thick EPS
2.	Self Adhered Membrane (SAM) sealed to concrete. Prime all contact surfaces with water based primer. See detail QLU-425
3.	Furring Strips - Fasten to Quad-Lock Ties
4.	Lapped Siding - Fasten to Furring
5.	Quad-Lock Tie (Yellow Shown) @ 12" [305mm] O/C Ver & Hor
6.	Starter Strip
7.	Sealant
8.	Siding Trim
9.	Metal Flashing with SAM Counter-Flashing on top sealed to concrete
10.	Flanged Window Frame
11.	Shims
12.	Sealant for Interior Window Trim
13.	Backer Rod and Sealant - Between Frame & SAM
14.	Hybrid Buck - Pressure Treated 2x
15.	Poly-Urethane Tape Installed on Concrete Face of Wood Buck (Head & Jambs) Prior to Pour. This Tape is Not Required for Internal Bucks
16.	Interior Wall Finish (Gypsum Wallboard or eq.)
17.	Interior Window Trim
18.	P.T. Wood Buck with Space for Concrete Pour

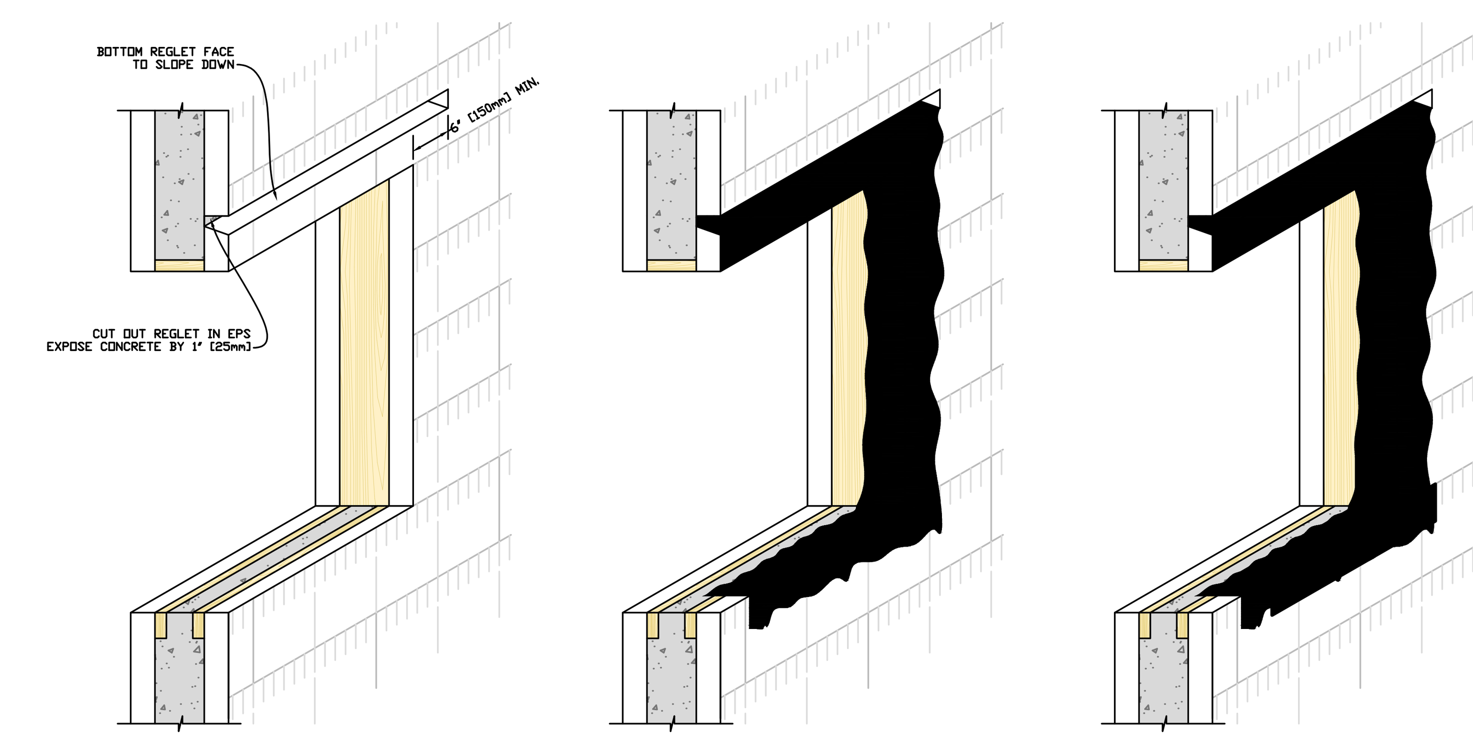
QUAD-LOCK R-28 [U-0.21] WALL		
TIE NAME		CONCRETE CORE THICKNESS
BLUE TIE	=	4" [102mm]
YELLOW TIE	=	6" [152mm]
GREEN TIE	=	8" [203mm]
RED TIE	=	10" [254mm]
BROWN TIE	=	12" [305mm]
BLACK TIE + XT	=	14" [356mm]
	ETC.	





1.	INTERIOR WALL FINISH - FASTEN TO PLASTIC TIE FLANGES
2.	QUAD-LOCK PLASTIC TIE (YELLOW SHOWN) SPACED AT 12" [305mm] O/C VER & HOR
3.	QUAD-LOCK ULTRA PANEL 3.125" [79mm] THICK EPS
4.	VERTICAL WALL REINFORCEMENT 1-#5 @ 18" OC.
5.	HORIZONTAL WALL REINFORCEMENT 1-#4 @ 24" O.C.
6.	DOOR TRIM
7.	SELF EXPANDING SEAL TAPE
8.	JAMB REINFORCEMENT AS SPECIFIED
9.	DOOR JAMB
10.	SHIMS
11.	PRESSURE TREATED "INTERNAL" WOOD BUCK WITH NAILS OR LAG BOLTS FOR SHEAR RESISTANCE
12.	JAMB EXTENSION
13.	BACKER ROD AND CAULKING

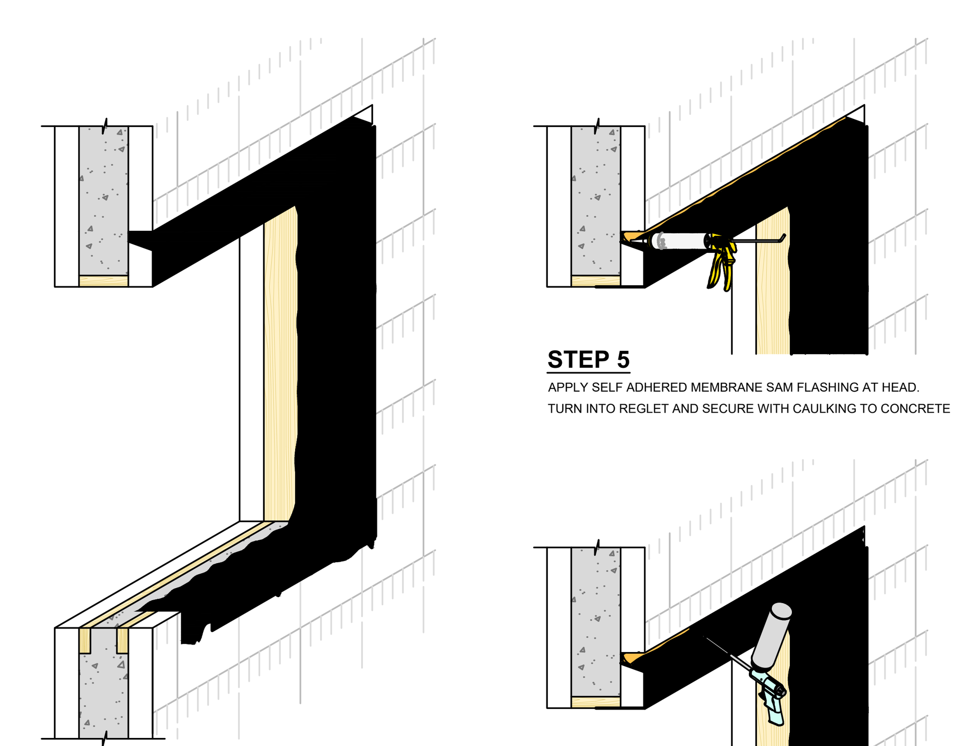




STEP 1
CUT 1" - 2" [25MM TO 50MM] TALL REGLET BACK TO CONCRETE
EXTEND REGLET BEYOND WINDOW BY MIN. 6" [150mm]

STEP 2
APPLY WATER BASED PRIMER ON ALL SURFACES TO BE FLASHED

STEP 3
APPLY SELF ADHERED MEMBRANE "SAM" FLASHING AT SILL.
EXTEND MIN. 6" [150mm] ONTO WALL AND AS REQUIRED ONTO SILL.



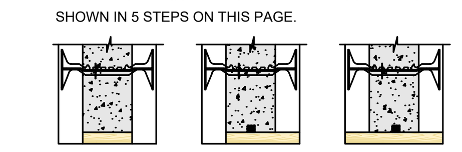
STEP 4
APPLY SAM FLASHING AT JAMB.
EXTEND MIN. 6" [150mm] ONTO WALL AND AS REQUIRED ONTO SILL.

STEP 5
APPLY SELF ADHERED MEMBRANE SAM FLASHING AT HEAD.
TURN INTO REGLET AND SECURE WITH CAULKING TO CONCRETE

STEP 6
INSULATE WITH SPRAYFOAM OR REPLACE REGLET CUT OUT INSULATION

IMPORTANT NOTES:

1. HYBRID AND EXTERNAL WOOD BUCKS MUST HAVE POLY-URETHANE TAPE INSTALLED ON CONCRETE FACE OF WOOD BUCK (HEAD AND JAMBS) PRIOR TO POUR. THIS TAPE IS NOT REQUIRED FOR INTERNAL BUCKS WHICH IS SHOWN IN 5 STEPS ON THIS PAGE.



2. SAM FLASHING (CAULKED TO CONCRETE AT REGLET) IS REQUIRED FOR ALL 3 TYPES OF BUCKS SHOWN ABOVE. PRIME ALL SURFACES (WOOD, EPS & CONCRETE) WITH WATER BASED PRIMER PRIOR TO APPLYING THE SAM.
3. IF WINDOW/DOOR FRAME IS CAULKED DIRECTLY TO PRIMED CONCRETE SURFACE, SAM FLASHING CAN BE OMITTED.
4. WINDOW/DOOR FRAMES MUST BE CAULKED (WITH BACKER RODS) EITHER DIRECTLY TO PRIMED CONCRETE OR TO SAM FLASHING.
5. FLANGED WINDOWS TO HAVE ONE ADDITIONAL SAM LAYER AT HEAD OVER THE FLANGE - CAULKED TO CONCRETE

CAROL J. CHADWICK LICENSE No. 82560 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE	REVISION DESCRIPTION

PREPARED FOR
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I.C.F. DETAILS
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SHEET S-2

ROOF VENT CALCULATION

FORMULA

1 SQUARE INCH FOR EVERY 300 SQUARE INCHES OF CEILING
144 SQUARE INCHES = 1 SQUARE FOOT
BUILDING CEILING (SQ FT) X 144 = BUILDING (SQ IN)
BUILDING (SQ IN) /300 = SQ IN OF VENT REQUIRED
SQ IN OF VENT REQUIRED /2 = 50% AT HIGH AND 50% AT LOW

PER FBC SECTION R806.2: 40% MIN, BUT NOT MORE THAN 50% OF VENTILATION MUST BE PROVIDED BY VENTILATORS LOCATED A MIN 3'-0" ABOVE EAVE

BASE OF CALCULATION:

(a) OFF RIDGE VENTS - STAMPCO W/ 36 SQ IN (NFVA) PER LINEAL FT

(b) SOFFIT VENTS - GP T3-1/3" FULL VENT PERFORATED W/ 9.19 SQ IN (NFVA) PER LINEAL FT

CALCULATED LINELA FOOT OF SOFFIT VENT SHALL NOT INCLUDE NON-VENTED FIRE RATED SOFFIT LOCATED LESS THAN 5' FROM PROPERTY LINE

	AREA (SQ FT)	REQUIRED HIGH	REQUIRED LOW	PROVIDED VENTS	PROVIDED HIGH (SQ IN)	PROVIDED LINEAL FT	PROVIDED LOW (SQ IN)

SOFFIT TABLE VENT SPECS

Double 5" perforated soffits have a 6.20 sq. inches/sq. foot rating

Triple 4" center vent soffit has a 1.956 sq. inches/sq. foot rating

Triple 4" full vent soffit has a 5.867 sq. inches/sq. foot rating

Triple 4" basketweave full vent has a 14.34 sq. inches/sq. foot rating

Triple 4" center vent has a 4.78 sq. inches/sq. foot rating

Beaded hidden vent soffit has 2.66 sq. inches/sq. foot rating

Triple 3-1/3" hidden vent soffit has a 9.19 sq. inches/sq. foot rating

NOTE

7/16" O.S.B. NAILED WITH 8D 6" O.C. IN FIELD & 4" O.C. ON EDGES

NOTE

Simpson Strong-Tie Co. Strong-Drive SDWC TRUSS Screws may be used for uplift connection in lieu of straps. Strong-Drive SDWC TRUSS Screws to be installed per manufacturer's specifications.

Simpson Strong-Tie Co. Titen HD Heavy-Duty Screw Anchors 5/8" x 8", maximum spacing of 24" o.c., may be used in lieu of 5/8"x10" anchor bolts with 3"x3"x1/8" washer. Titen HD Heavy-Duty Screw Anchors shall be installed per manufacturer's specifications.

ROOF SHEATHING FASTENING

- 4" O.C. GABLE END
- 6" O.C. EDGES (ALL ZONES)
- 6" O.C. INTERMEDIATE FRAMING (ZONE 3)
- 12" O.C. INTERMEDIATE FRAMING (ZONES 1 & 2)

SEE FIGURE R803.2.3.1, SECTION R803.1, 2017 FLORIDA BUILDING CODE - RESIDENTIAL, SIXTH EDITION FOR ROOF SHEATHING NAILING ZONES

ROOF NOTES

ROOF PITCH LESS THEN 4/12 DBL LAYER OF UNDERLAYMENT IS REQUIRED

OVERLAP ROOFING UNDERLAYMENT 4'(MIN) OVER HIPS AND RIDGES

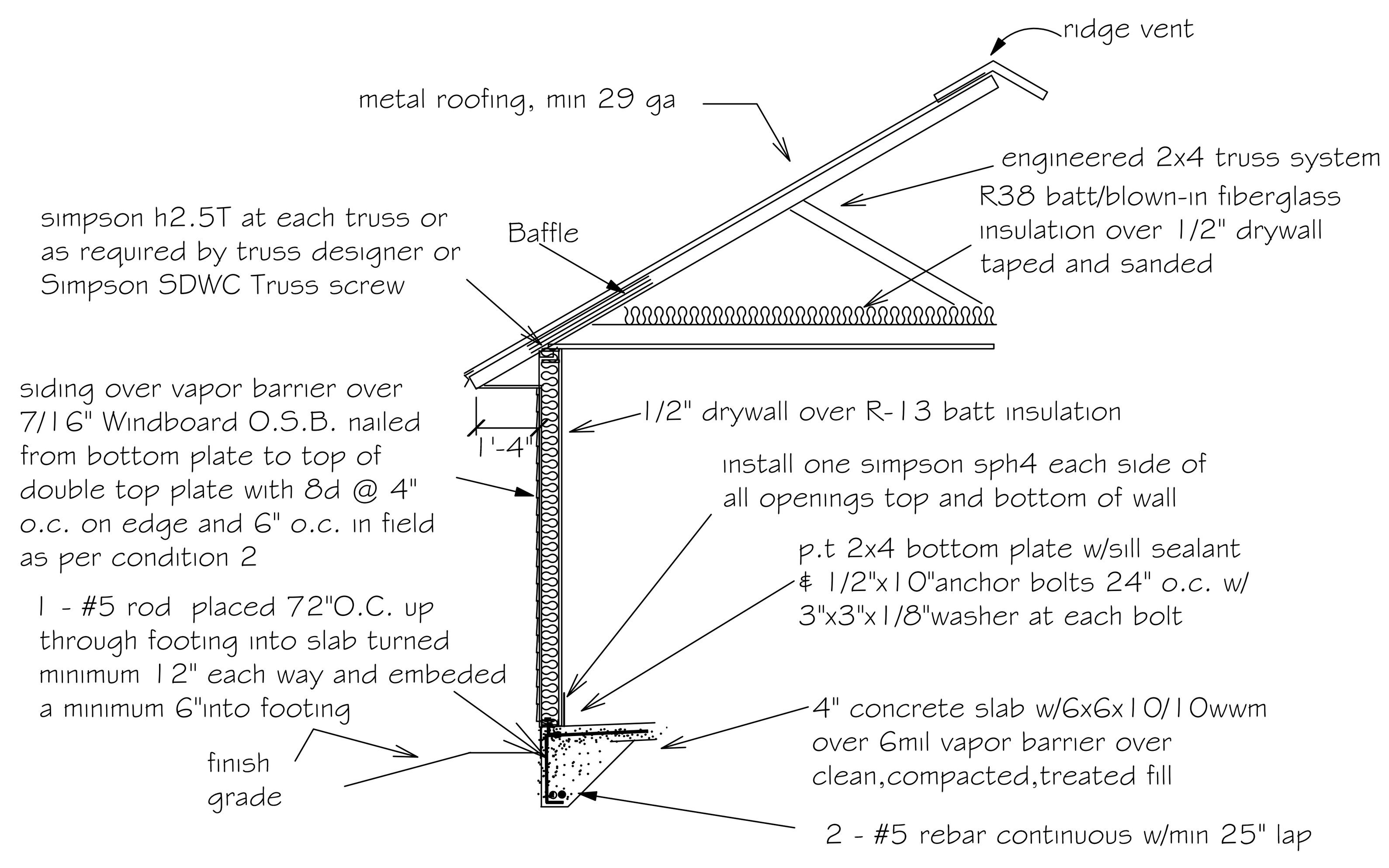
BUTTON CAP NAILS ARE USED TO FASTEN UNDERLAYMENT TO ROOF DECK WHEN SHINGLES NOT INSTALLED SAME DAY

DRIP EDGE INSTALLED OVER THE UNDERLAYMENT AT RAKES AND UNDER THE UNDERLAYMENT AT EAVES

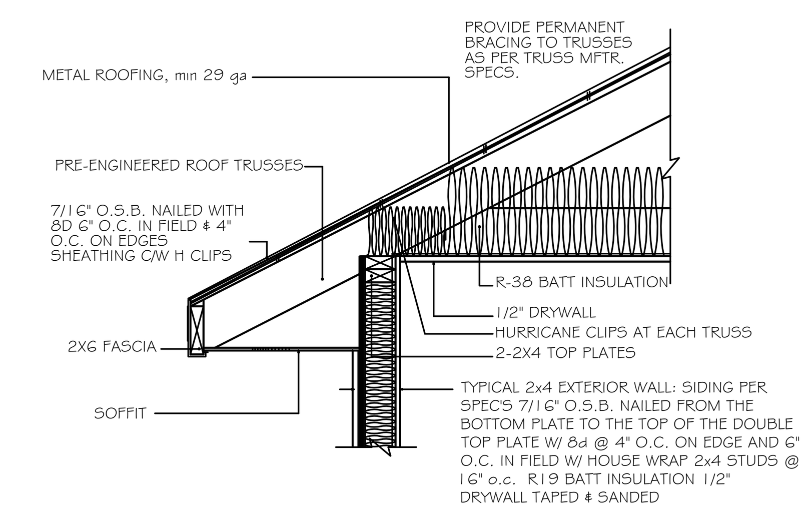
ALL ROOF PENETRATIONS ARE PROPERLY FLASHED W/ FLASHING OF THE CORRECT SIZE FOR THE PENETRATION

METAL ROOFING ATTACHED W/ CORRECT FASTENERS PER CODE AND MANUFACTURERS SPECS

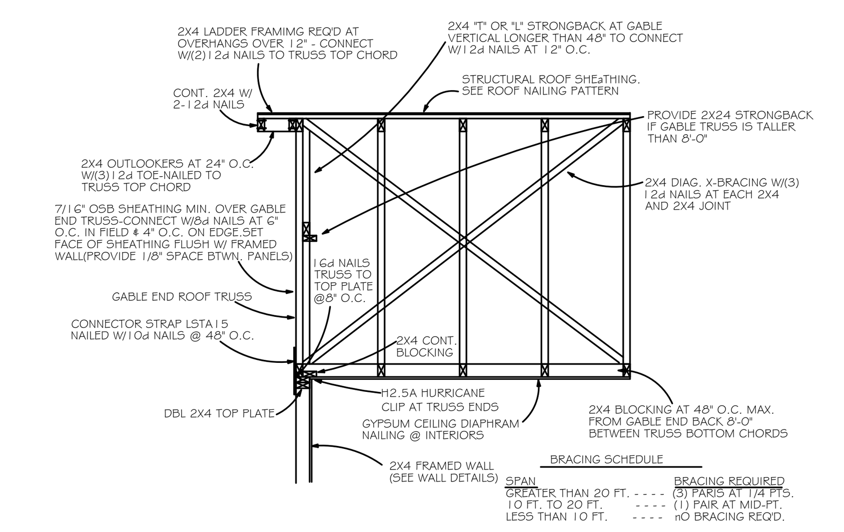
1" SPACE IS MAINTAINED BETWEEN THE END OF THE GUTTER AND THE WALL CLADDING



"AA" Windboard wall detail



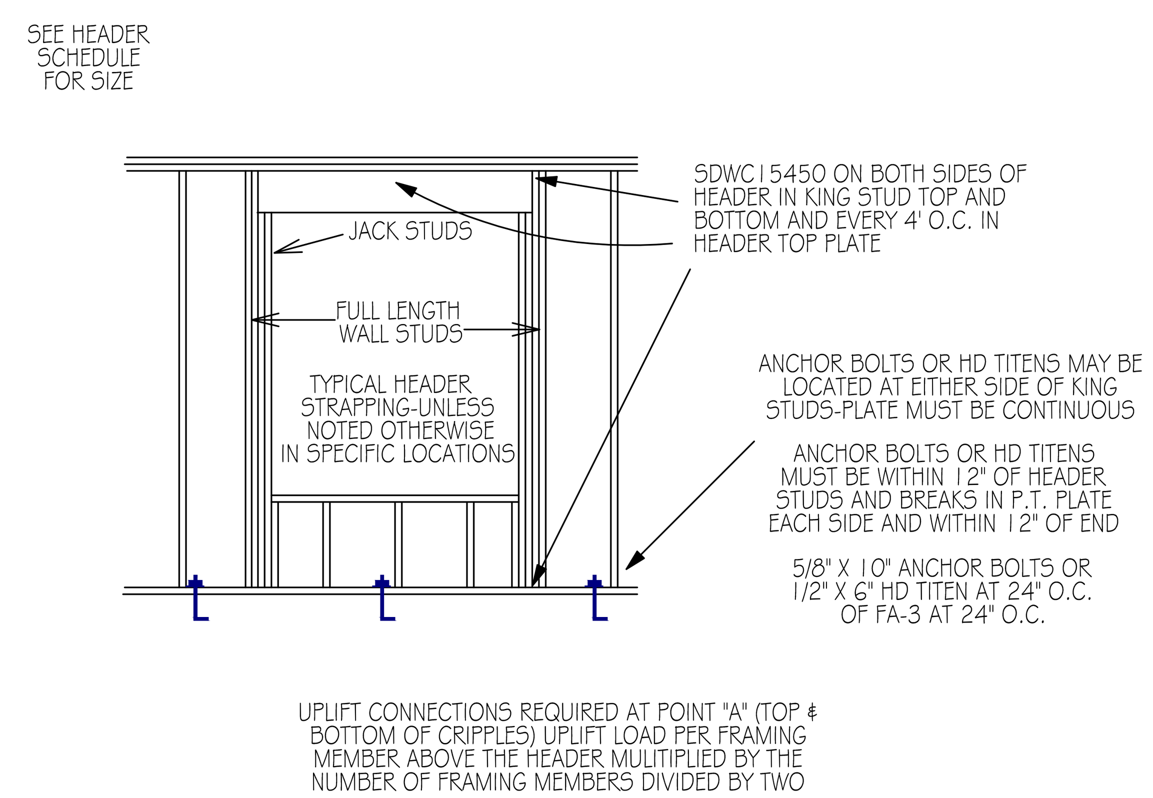
4" STUD EAVE



BRACING SCHEDULE

SPAN	BRACING REQUIRED
GREATER THAN 20 FT.	(3) PARIS AT 1/4 PTS.
10 FT. TO 20 FT.	(1) PAIR AT MID-PT.
LESS THAN 10 FT.	nO BRACING REQ'D.

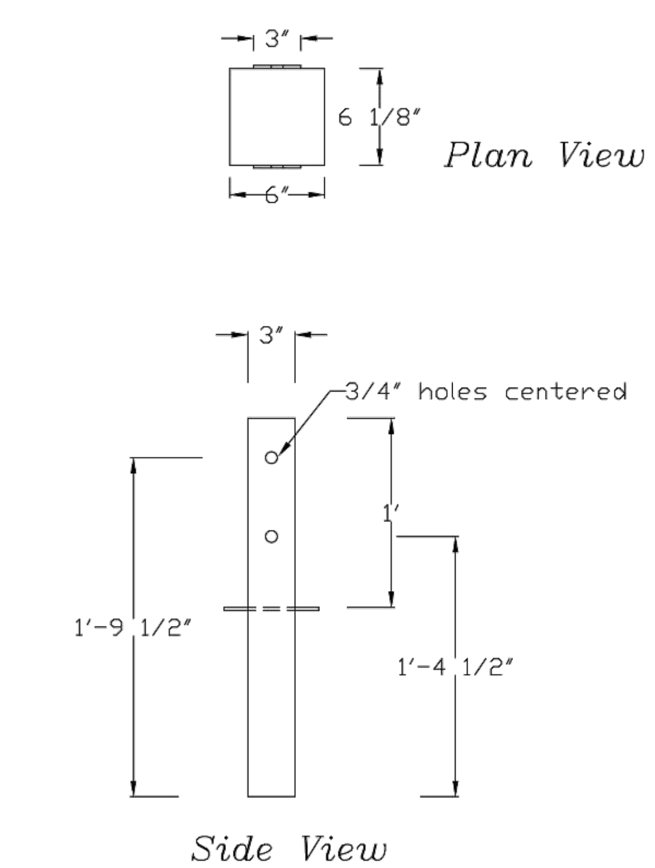
GABLE END BRACING
NOT TO SCALE



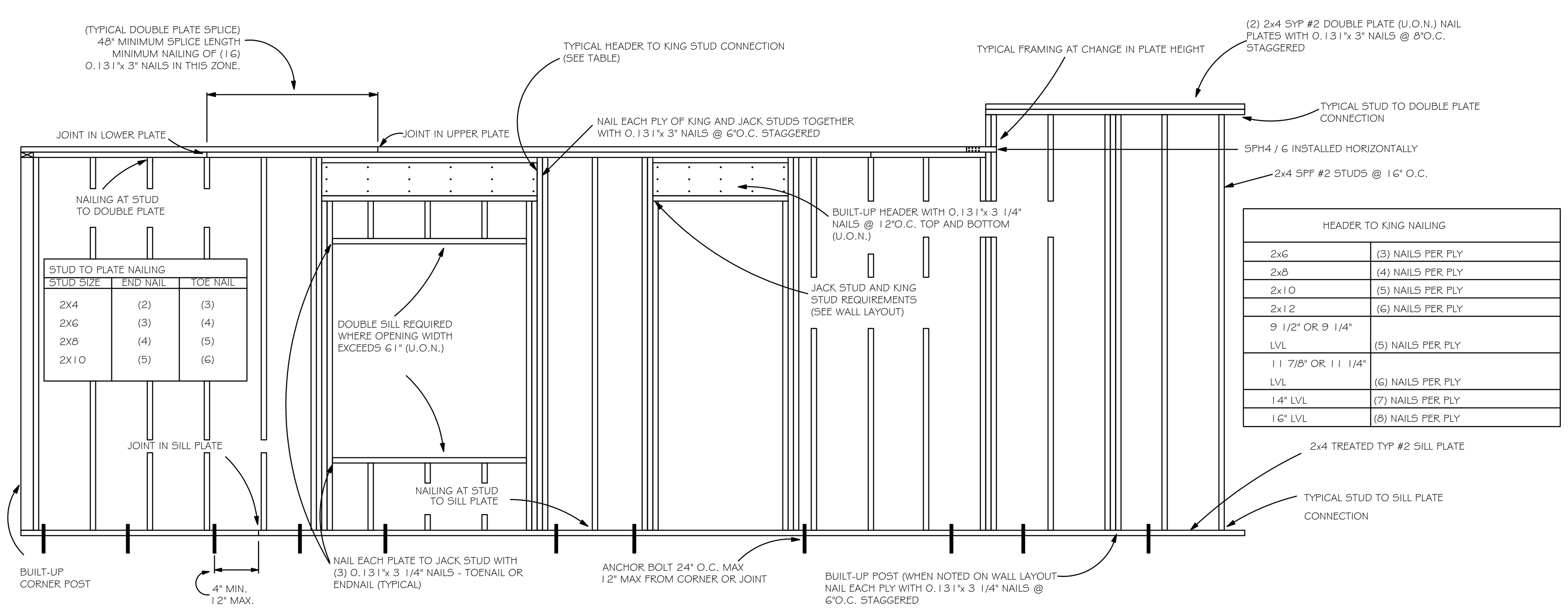
UPLIFT CONNECTIONS REQUIRED AT POINT "A" (TOP & BOTTOM OF CRIPPLES) UPLIFT LOAD PER FRAMING MEMBER ABOVE THE HEADER MULTIPLIED BY THE NUMBER OF FRAMING MEMBERS DIVIDED BY TWO

SDWC HEADER STRAPPING (TYPICAL)

Post Saddles



Notes:
Steel 3/16"



STUD TO PLATE NAILING

STUD SIZE	END NAIL	TOE NAIL
2X4	(2)	(3)
2X6	(3)	(4)
2X8	(4)	(5)
2X10	(5)	(6)

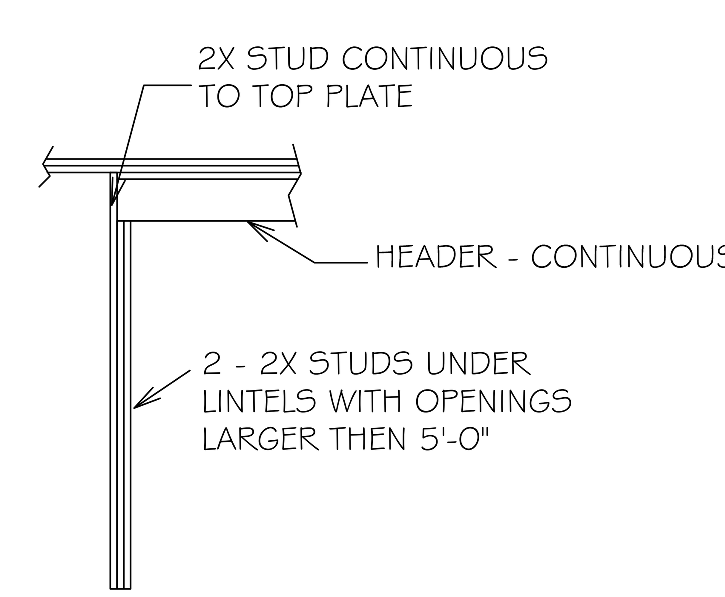
HEADER TO KING NAILING

2x6	(3) NAILS PER PLY
2x8	(4) NAILS PER PLY
2x10	(5) NAILS PER PLY
2x12	(6) NAILS PER PLY
9 1/2" OR 9 1/4" LVL	(5) NAILS PER PLY
11 7/8" OR 11 1/4" LVL	(6) NAILS PER PLY
14" LVL	(7) NAILS PER PLY
16" LVL	(8) NAILS PER PLY

ALL NAILS NOTED ARE 0.131"x 3 1/4"

TYPICAL WALL FRAMING
NOT TO SCALE

HEADER SCHEDULE



NOTE:
UPLIFT CONNECTION IS REQUIRED AT EACH END OF HEADER AND AT BOTTOM OF HEADER STUDS IN ADDITION TO CONNECTORS AT WALL STUDS AND AT TOP AND BOTTOM OF CRIPPLES

OPENING WIDTH	BEARING OR SHEAR WALL	NON-BEARING WALLS
0'-0" TO 3'0"	2 - 2 X 6's	2 - 2 x 4's
3'-1" TO 5'-0"	2 - 2 x 10's	2 - 2 x 6's
5'-1" TO 7'-0"	2 - 2 x 10's	2 - 2 x 8's
7'-1" TO 10'-0"	2 - 2 x 10's	2 - 2 x 10's

MAXIMUM HEADER SPAN	3'	6'	9'	12'	15'	18'
NUMBER OF HEADER STUDS SUPPORTING END OF HEADER	1	1	2	2	2	2

NUMBER OF FULL LENGTH STUDS AT END OF HEADER: 2

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