

Chesterfield County, VA

Chesterfield County
9800 Government Center Parkway
P.O. Box 40
Cherterfield, VA 23832
Building Inspections: 804-748-1057
Planning Department: 804-748-1050



Final Report - Approved

Permit or Case Number:20240829-042

Description : New construction of a single-family dwelling with an attached garage.

Address : DEER RANGE RD, Moseley, VA, 23120

Record Type : Residential Building

Document Filename : DEER RANGE PERMIT SET 8 29 24.pdf

Comment Author Contact Information:

Reviewer Name	Reviewer Email	Reviewer Phone No.:
Kemper Elder	elderk@chesterfield.gov	804-717-6428

General Comments

Author : Department	Status	General Comments	Applicant Response Comments
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Marked up Corrections

Page Ref	Annotation Type	Author : Department	Status	Page	Review Comments	Applicant Response Comments
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Building Inspection						
7	Callout	Kemper Elder : Building Inspection	Open	7	tempered if within 36" of landing	
1	Free Text	Kemper Elder : Building Inspection	Open	1	Gutters Required Per VRC Section R801.3	
8	Free Text	Kemper Elder : Building Inspection	Open	8	Minimum Insulation Values R-19 Floor R-10 Perimeter Slab R-15 Walls R-49 Ceiling	
6	Callout	Kemper Elder : Building Inspection	Open	6	tempered	
1	Free Text	Kemper Elder : Building Inspection	Open	1	See Attached Engineer's Report for Footing and Foundation Design Requirements	
8	Free Text	Kemper Elder : Building Inspection	Open	8	finished bonus room	
4	Free Text	Kemper Elder : Building Inspection	Open	4	min 3500 psi	
1	Free Text	Kemper Elder : Building Inspection	Open	1	20240829-042	
5	Callout	Kemper Elder : Building Inspection	Open	5	tempered if within 36" of landing	
8	Free Text	Kemper Elder : Building Inspection	Open	8	1/2" Anchor Bolts to be in Center of CMU Block, 12" max. From Sill Plate Ends and 6' max. o.c.	

LEHOIST RESIDENCE

"THE ROSALYN"

9105 DEER RANGE RD.
MOSELEY, VA 23120

20240829-042

APPROVED - 09/19/2024

These construction documents are approved for
Construction in accordance with the Virginia
Uniform Statewide Building Code (USBC)

Chesterfield County Building Inspections Department

Gutters Required Per VRC Section R801.3

See Attached Engineer's Report
for Footing and Foundation
Design Requirements

GENERAL NOTES:

- 1.) EXTERIOR DIMENSION IS EQUIVALENT TO STUD DIMENESION (I.E.2X6 =5.5") PLUS ½" SHEATHING
- 2.) INTERIOR WALL DIMENSIONS EQUAL 3.5" UNLESS NOTED OTHERWISE
- 3.) GARAGE WALLS AND CEILINGS REQUIRE 5/8" TYPE "X" DRYWALL GPDW WHEN ABUTTING LIVING SPACE
- 4.) PROVIDE TEMPERED GLASS AT ALL WINDOW UNITS WITHIN 24" OF DOOR OPENINGS

FOUNDATION NOTES:

- 1.) FOUNDATION SIZES ARE BASED ON SOIL BEARING CAPACITY OF 2000 PSF UNLESS NOTED OTHERWISE. CONTRACTOR IS TO VERIFY THAT SOIL IS CAPABLE OF SUSTAINING THIS LOAD.
- 2.) PROVIDE 4" PERFORATED DRAIN TILE ON UPHILL SIDE OF LOAT AND RUN UNTIL NATURAL OUTFALL.
- 3.) PROVIDE DAMPPROOFING AND RIGID PROTECTION BAORD AT ANY BASEMENT WALLS. PROVIDE 12" MINIMUM THICKNESS OF CLEAN, PORUS FILL ADJACENT TO WALL SURFACE.
- 4.) BACKFILL SHALL BE FREE OF CONTAMINATES. WALL MUST BE PROPERLY BRACED PRIOR TO BACKFILLING.

TWO STORY WALL DESIGN:

FOR ALL TWO-STORY WALL CONDITIONS, FRAMING SHALL BE AS FOLLOWS:

- 2X6 WALL FRAMING AT 12" O.C.
- (3) 2X6 FULL HEIGHT STUDS AT INTERMEDIATE FRAMING AND EACH SIDE OF OPENINGS
- 2X10 BOXED HEADER OR (3) 2X10 SOLID, UMLESS NOTED OTHERWISE
- BLOCKING @ 24" O.C. HORIZONTALLY
- OSB/PLYWOOD EXTERIOR WALL SHEATHING

STRUCTURAL / FRAMING NOTES:

- 1.) ALL TRADE PARTNERS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL NATIONAL, STATE, AND LOCAL BUILDING CODES / REGULATIONS.
- 2.) UNLESS OTHERWISE NOTED, STRUCTURAL MEMBERS ARE BASEDON THE FOLLOWING CARATERISTICS:
- a. WOOD- Fb= 1200 PSI; Errad= 1.6 X 10-6 PSI
- 3.) PROVIDE DOUBLE JOISTS UNDER ALL NON LOAD BEARING PARTITIONS PARRALLEL TO THE SPAN OF THE FLOOR JOISTS
- 4.) DO NOT CUT FRAMING MEMBERS FOR PLUMBING, ELECTRICAL, OR MECHANICAL WITHOUT REINFORCING THE MEMBER TO ITS ORIGINAL CAPACITY OR AS ALLOWED BE APPLICABLE BUILDING CODES AND JOIST SUPPLIER SPECIFICATIONS.
- 5.) LUMBER FOR 2X4 AND 2X6 STUDS SHALL BE STUD GRADE SPF OR EQUAL, UNLESS NOTED OTHERWISE.
- 6.) STUD WALLS SUPPORTING TWO FLOORS, CEIING AND ROOF LOADS SHALL BE 2X6 AT 16" O.C.. STUD WALLS UP TO 10' TO BE BLOCKED AT THEIR MID-HEIGHT.
- 7.) ALL HEADERS SUPPORTING BEAMS TO BE SUPPORTED BY BUILDT UP STUDS OR COLUMNS AS SHOWN ON THE PLANS. SUPPORT TO BE CONTIOUS TO THE FOUNDATION OR OTHER SUPPORT BELOW.
- 8.) BEARING TYPE CONNECTIONS MAY BE TOE-NAILED. ALL OTHER CONNECTIONSTO STRUCTURAL MEMBERS TO BE MADE USING METAL JOIST HANGERS.
- 9.) ALL KNEE WALL CONSTRUCTION TO BE DIAGONALLY BRADED AT 4'-0" ON CENTER, MAXIMUM.
- 10.) ALL LUMBER IN CONTRACT WITH MASONRY OR CONCRETE TO BE PRESSURE TREATED. PROVIDE PRESSURE TREATED LUMBER AT ALL OTHER LOCATIONS INDICATED ON THE PLANS.
- 11.) JAMBE FRAMING REQUIRIES (3) 2X STUDS AT ALL JAMB OPENINGS FOR PROPER TRIMMING. UNLESS NOTED OTHERWISE
- 12.) UNLESS OTHERWISE NOTED ALL HEADERS SHOULD BE (2) 2X8
- 13.) SUPPORT OF MASONRY ABOVE OPENINGS SHALL BE IN COMPLIANCE WITH SEC R703.8.2.1 OF THE IRCSTEEL ANGLES SHAL BE SIZ INCES (VERTICAL) BY FOUR INCHES BY FIVE SIXTEENTHS (6"x4"x5/16") ANCHORED TO BEAMS/HEADERS OR DOUBLE 2X STUDS WITH ½" DIA. X 4" LONG LAG SCREWS (MIN.) THE HEADERS IN BEARING WALLS SHALL BE SIZED TO SUPPROT ALL DEAD LOADS, LIVE LOADS, AND WEIGHT OF VENEER ABOVE OPENING WITH A DEFLECTION OF LIMIT OF L/600. BEAMS /HEADERS SUPPORTING MASONRY VENEER NOT SHOWN ON PLANS SHALL BE VERIFIED BY BUILDER FOR SIZE. COORDINATE ENGINEERED JOIST/ TRUSS DRAWINGS WITH ARCHITECTUAL DRAWINGS. SUPPLIER TO PROVIDE SHOP DRAWINGS FOR REVIEW.

BUILDING CODE:

INTERNATIONAL RESIDENTIAL CODE - 2018

VIRGINIA CONSTRUCTION CODE (VCC) - 2018

DESIGN LOADS:

- ROOF:
- LIVE - 20 PSF
- DEAD - 10 PSF
- ATTIC:
- LIVE- 30 PSF (HABITABLE ATTIC & ATTIC WITH FIXED STAIR)
- 20 PSF (UNINHABITABLE WITH LIMITED STORAGE
- 10 PSF (UNINHABITABLE WITHOUT STORAGE
- DEAD- 10 PSF
- FLOORS:
- LIVE- 30 PSF (SLEEPING AREAS)
- 40 PSF (ALL OTHERS)
- DEAD- 10 PSF
- DECKS & BALCONIES:
- LIVE- 40 PSF
- DEAD- 10 PSF
- WIND: 115 MPH

PAGE INDEX:

- 1.) COVER PAGE
- 2.) ELEVATIONS 1
- 3.) ELEVATIONS 2
- 4.) FOUNDATION
- 5.) MAIN FLOOR
- 6.) SECOND FLOOR
- 7.) THIRD FLOOR / ROOF
- 8.) CROSS SECTION
- 9.) DETAILS
- 10.) BRACED WALL PLAN

LEHOIST RESIDENCE
9105 DEER RANGE RD.
MOSELEY, VA 23120

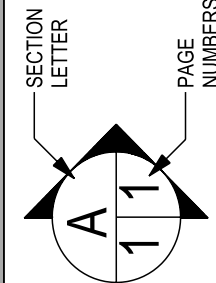


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804.363.1569

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

DRAWN BY: Adam V. Gregoire

DATE: Thursday, August 29, 2024



REVISION 1:

REVISION 2:

PAGE:

COVER PAGE



FRONT ELEVATION

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



LEFT ELEVATION

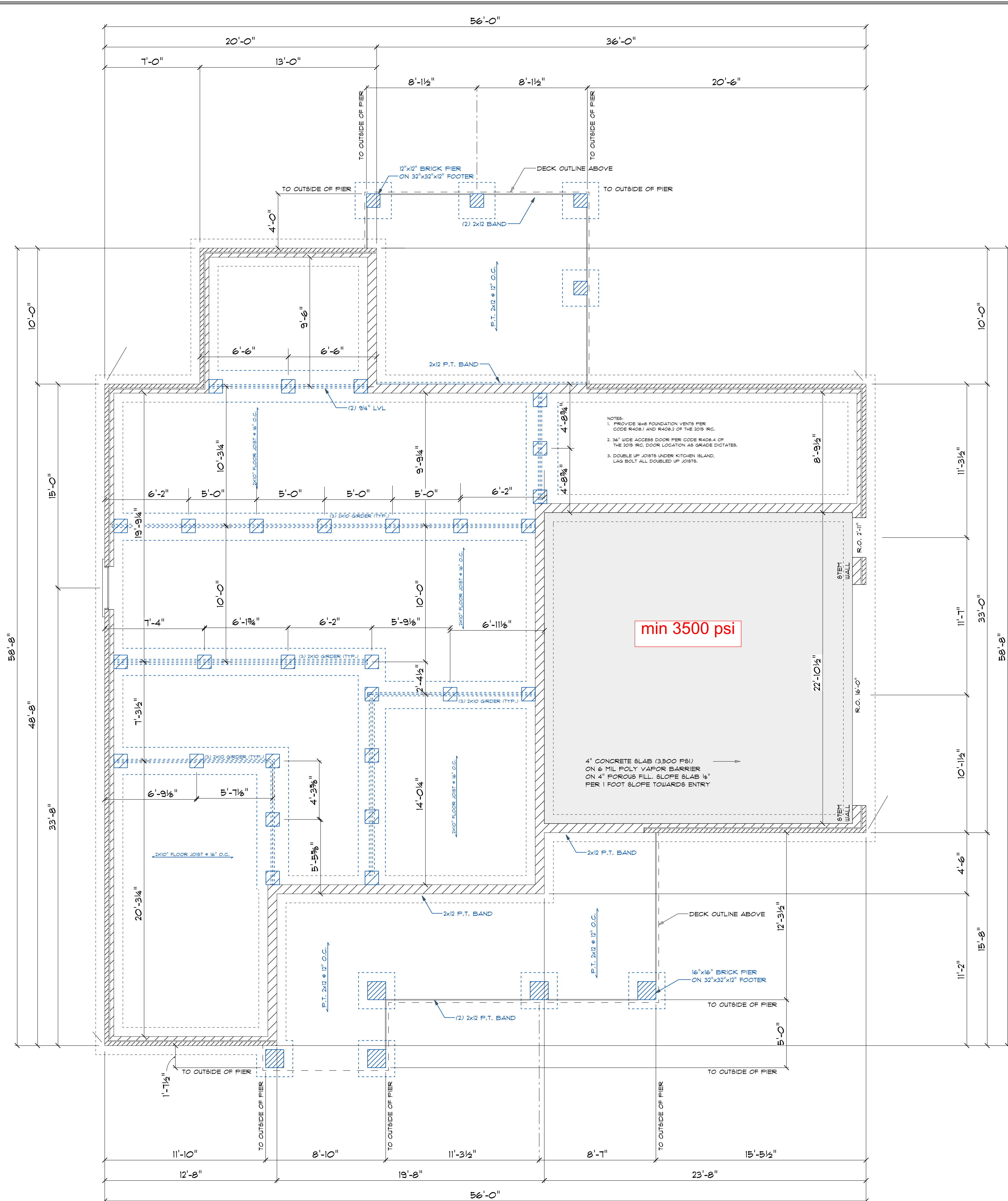
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RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



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



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

WALL LEGEND	
	4" BLOCK w/ BRICK VENEER
	8" BLOCK w/ BRICK VENEER
	8" BLOCK
	12" BLOCK
	12x12 BLOCK PIER

PLAN NOTES

A. PIER FOOTINGS:

PIER FOOTINGS (TYPICAL UNLESS NOTED OTHERWISE)

1. PROVIDE 2'-0"x2'-0"x1'-0" DEEP CONCRETE FOOTING WITH (2) #4 REINF. RODS EACH WAY UNDER 12"x12" MASONRY PIERS.
2. PROVIDE 2'-8"x2'-8"x1'-0" DEEP CONCRETE FOOTING WITH (2) #4 REINF. RODS EACH WAY UNDER 20"x20" MASONRY PIERS.
3. PROVIDE 2'-8"x2'-0"x1'-0" DEEP CONCRETE FOOTING WITH (2) #4 REINF. RODS EACH WAY UNDER 20"x12" MASONRY PIERS.
4. FILL PIERS SOLID WITH 3,000 P.S.I. CONCRETE, TYPICAL.
5. HEIGHT OF PIERS:
 - A. PIERS LESS THAN 36" IN HEIGHT MAY BE 16"x8" OR AS NOTED ON FOUNDATION PLAN.
 - B. PIERS BETWEEN 36" AND 80" IN HEIGHT SHALL BE A MINIMUM OF 12"x12".
 - C. PIERS GREATER THAN 80" IN HEIGHT SHALL BE A MINIMUM OF 12"x12" WITH (4) CONTINUOUS #5 BARS.

B. FOOTINGS:

1. CARRY ALL FOOTINGS TO FIRM UNDISTURBED BEARING:
18"x10" FOOTING FOR 8" FOUNDATION WALL WITH (2) #4 REINF. RODS CONTINUOUS.
2. FOOTINGS MUST BE A MIN. OF 24" BELOW FINISH GRADE OR PER SOIL REPORT.

C. GENERAL:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE SPECIFICATIONS FOR THIS HOUSE.
3. ALL WOOD USED IN CONSTRUCTION OF DECKS AND STEPS SHALL BE TREATED. FASTENERS FOR TREATED WOOD (NAILS, BOLTS, HARDWARE, ETC.) SHALL BE GALVANIZED.
4. CONTRACTOR SHALL INSTALL GROUND FAULT INTERRUPT OUTLETS AS PER CODE.
5. INSTALL ROOFING MATERIALS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR THE AREA AND CLIMATE, INCLUDING BUT NOT LIMITED TO SHINGLES, TILES, FELTS, FLASHING, AND FASTENING DEVICES.
6. INSTALL EXTERIOR FINISH SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS (I.E. CONTROL JOINTS, ATTACHMENT/ ANCHORING DEVICES, FLASHING, SEALANTS, ETC.)
7. ANCHOR BOLTS IN BLOCK CAVITY EVERY 6' O.C. & 12" FROM ALL CORNERS & END WALLS.
8. FOUNDATION VENTS TO BE WITHIN 3'-0" OF CORNERS.

D. VENTILATION:

1. PROVIDE CONTINUOUS RIDGE VENTS ON ALL ROOFS.
2. PROVIDE CONTINUOUS ROOF TO WALL VENTS AT ALL JUNCTURES OF SLOPED ROOFS AND VERTICAL WALLS.

E. VAPOR BARRIER

1. 6 MIL. POLYETHYLENE MOISTURE BARRIER TO BE USED IN CRAWL SPACE.

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SECTION LETTER
A
PAGE
11

REVISION 1:
REVISION 2:

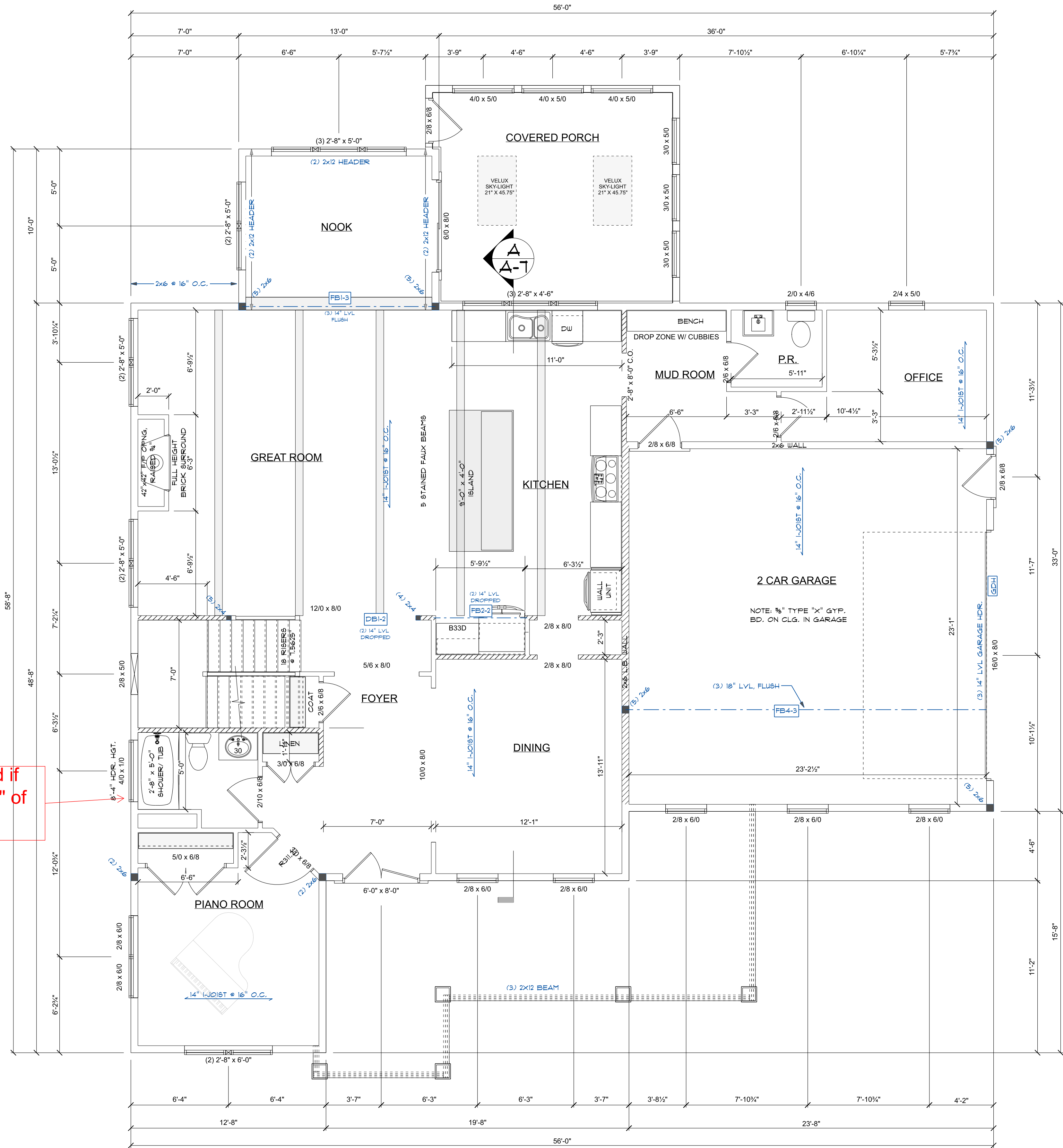
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MOSELEY, VA 23120

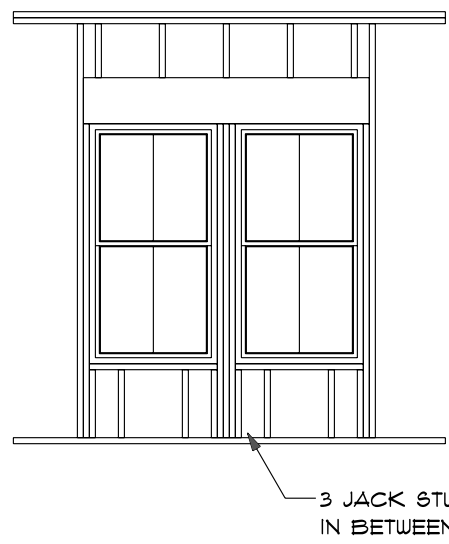
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FOUNDATION PLAN

REVISION 1:
REVISION 2:



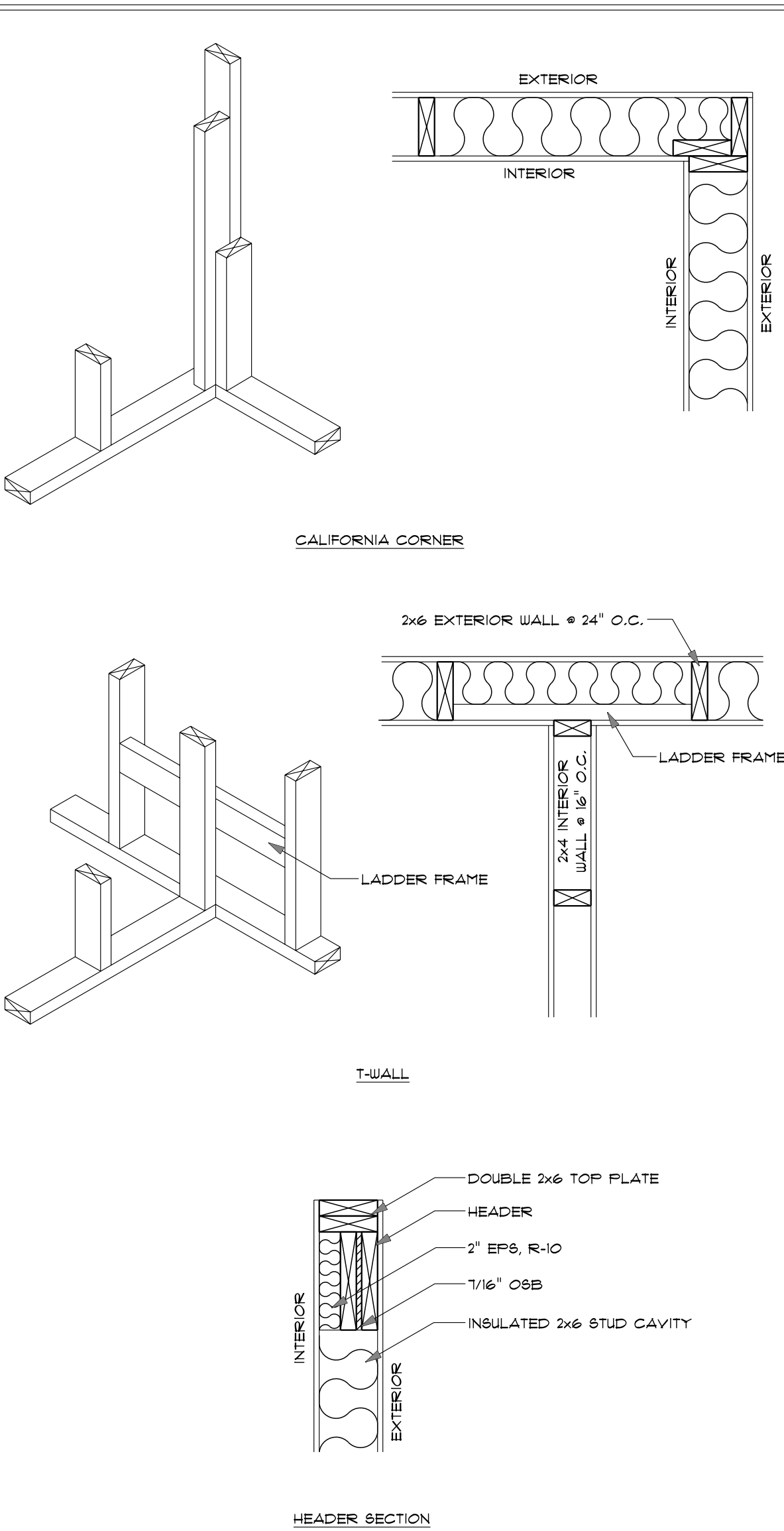
MAIN FLOOR
SCALE: 1/4" = 1'-0"

tempered if within 36" of landing



MULLED WINDOW DETAIL
SCALE: 1/4" = 1'-0"

NOTE:
ALL WINDOW HEADER HEIGHTS SHALL
BE 8'-0" UNLESS NOTED OTHERWISE.



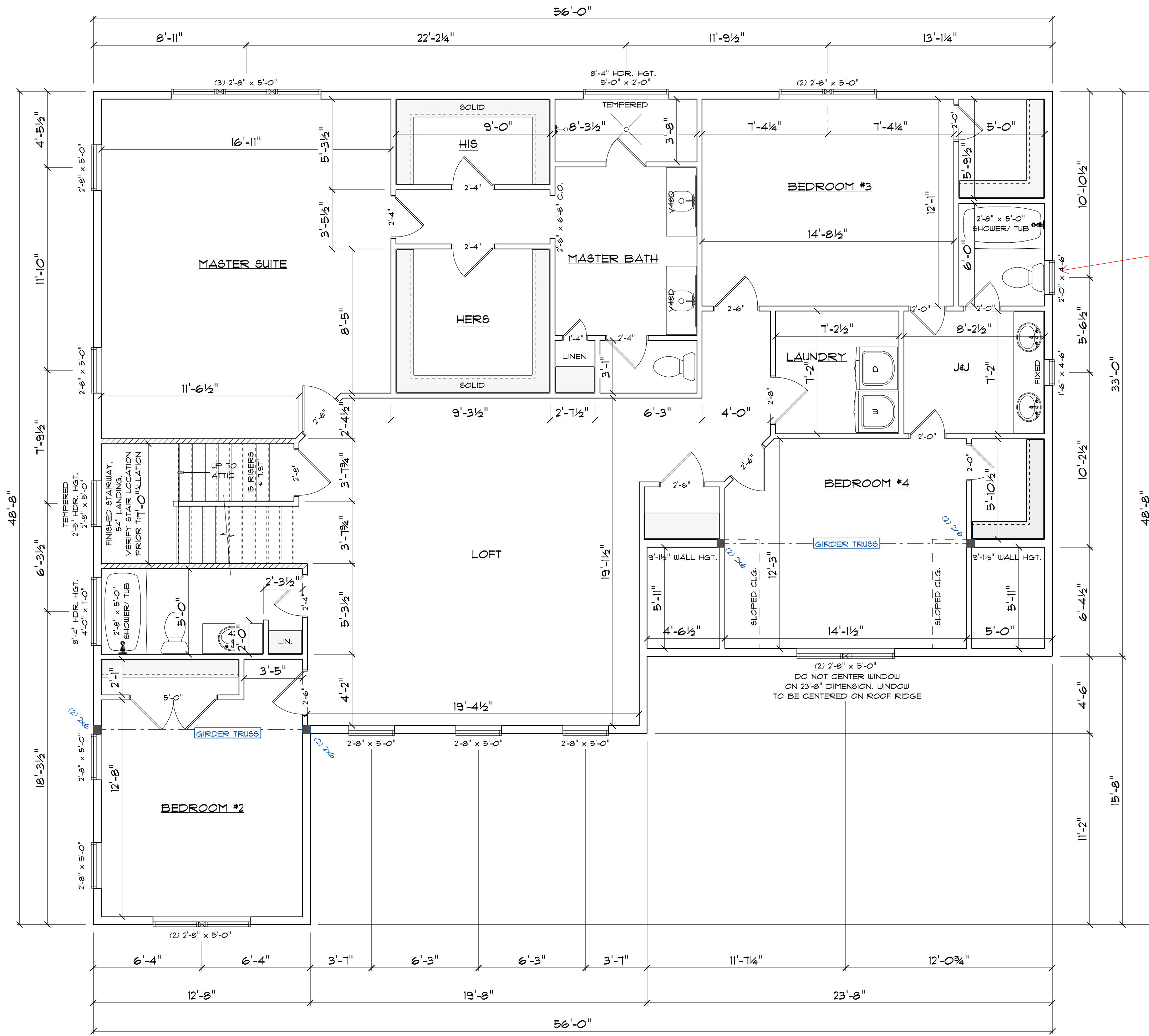
2x6 ADVANCED FRAMING DETAILS
NOT TO SCALE

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PAGE: /	FIRST FLOOR	
REVISION 1:	SECTION LETTER	PAGE NUMBERS
REVISION 2:		
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WALL LEGEND	
	2x6 EXT. WALL @ 24" O.C.
	2x4 INT. WALL @ 16" O.C.
	2x4 INT. BEARING WALL

NOTE:
ALL WINDOW HEADER HEIGHTS SHALL
BE 8'-0" UNLESS NOTED OTHERWISE.

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SECTION LETTER
A

REVISION 1:
REVISION 2:

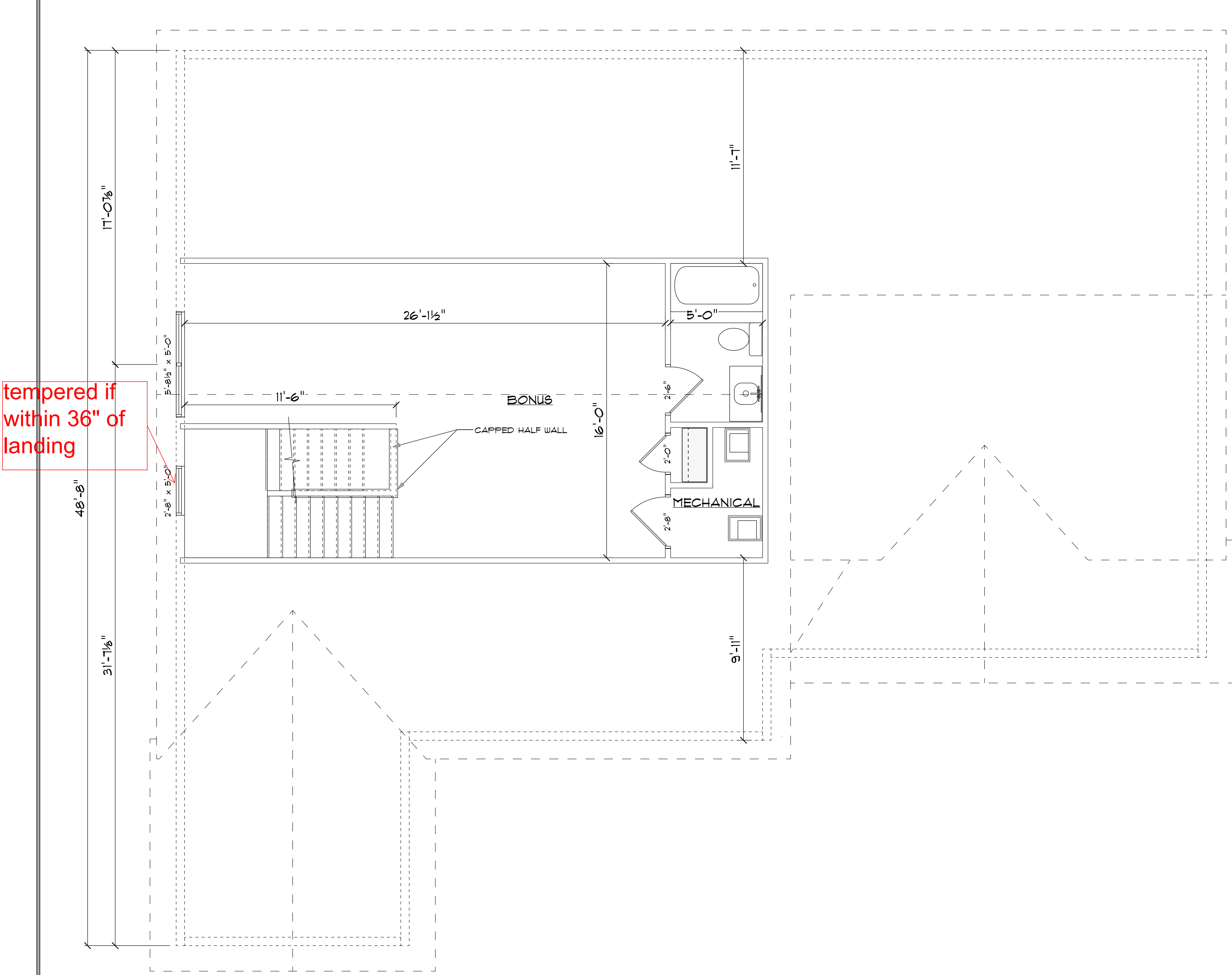
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PAGE
11

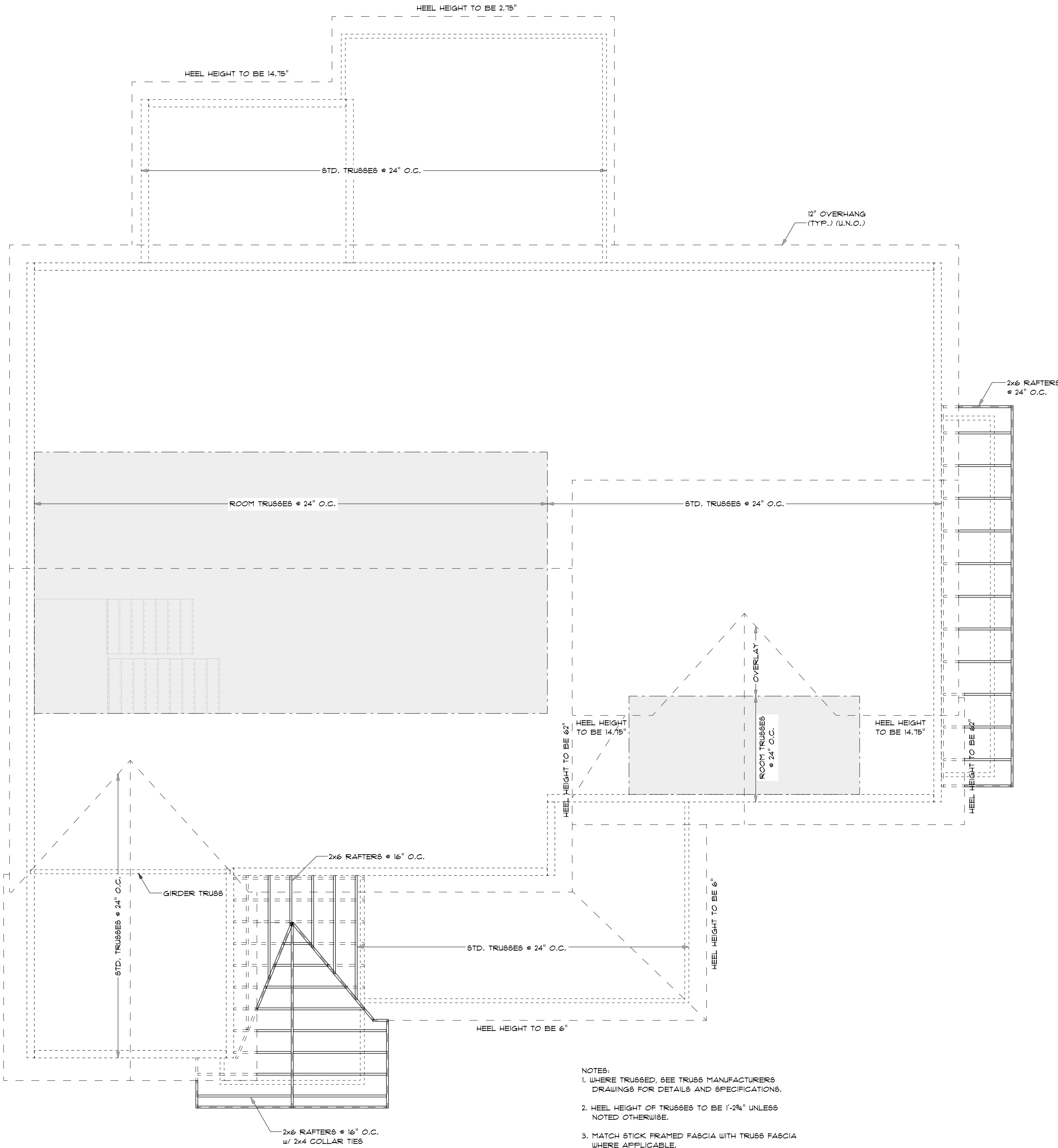
PAGE NUMBERS

PAGE
11

SECOND FLOOR



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



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

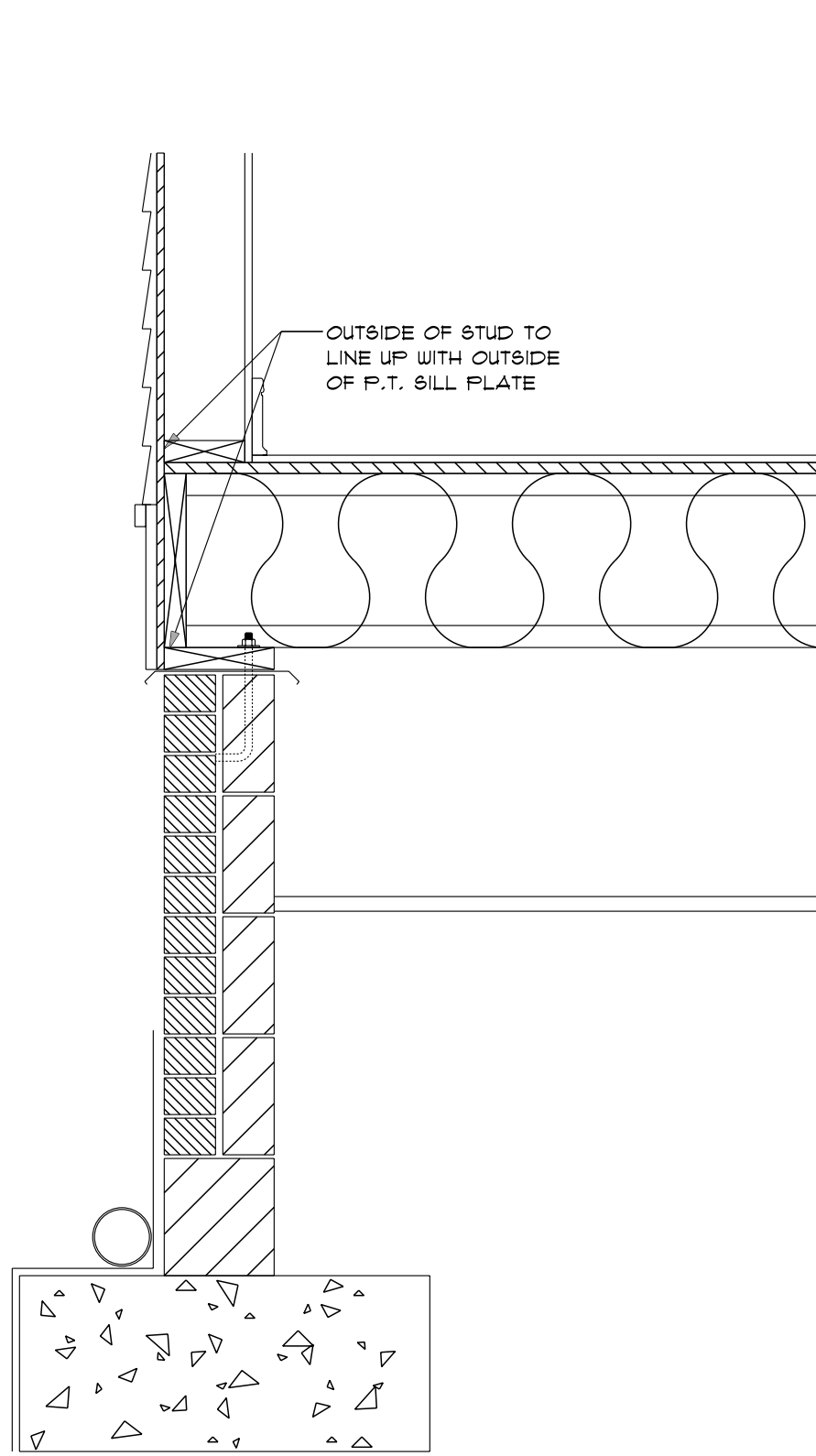
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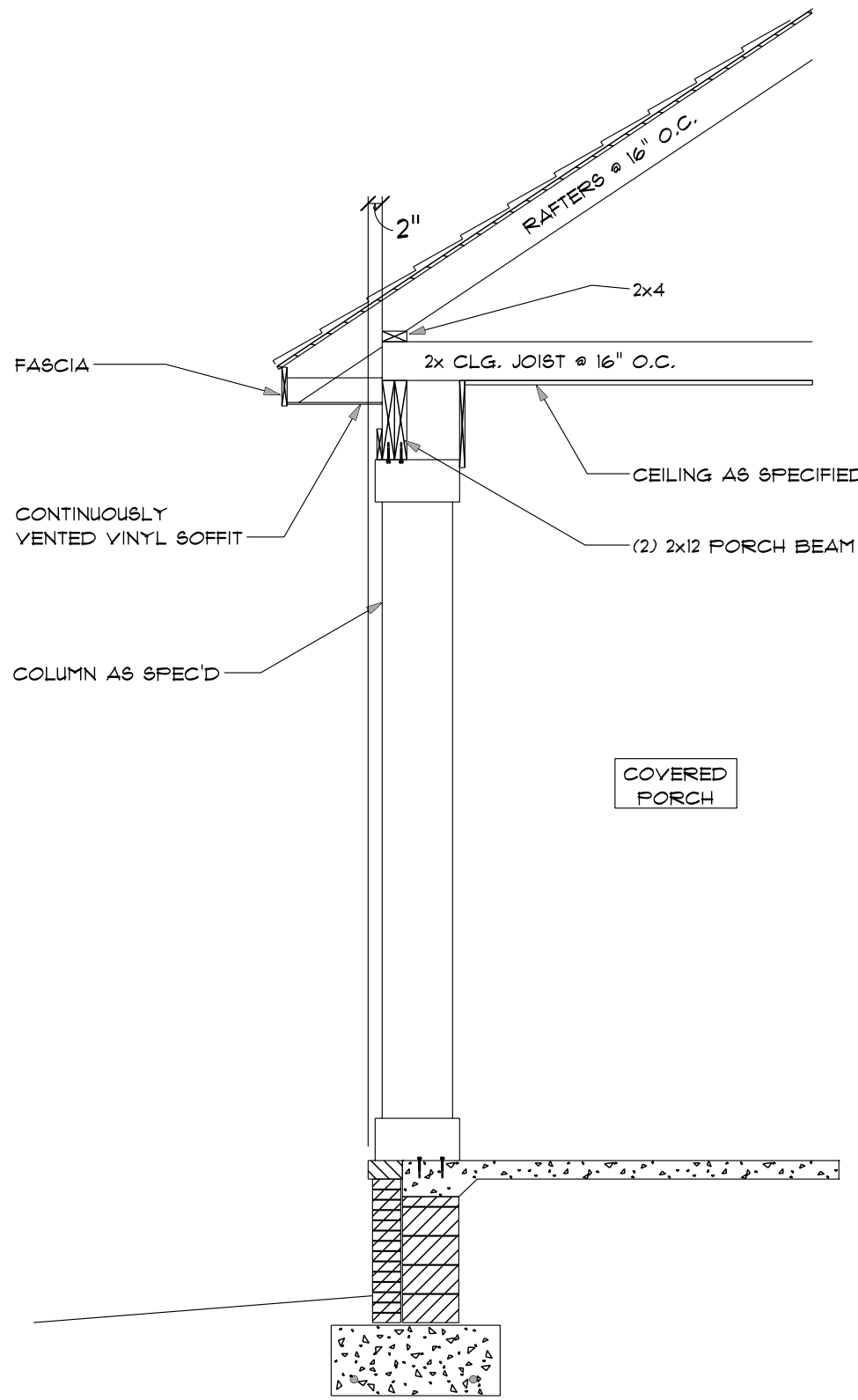
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SECTION LETTER A	PAGE NUMBERS 11	REVISION 1:	SCALE: 1/4" = 1'-0" DRAWN BY: Adam V. Gregoire DATE: Thursday, August 29, 2024	Covenant Building + Design 7701 Whitepine Rd. Richmond, Va 23237 www.BuildingRVA.com Shou@BuildingRVA.com 804.363.1569	LEHOIST RESIDENCE 9105 DEER RANGE RD. MOSELEY, VA 23120
		REVISION 2:			

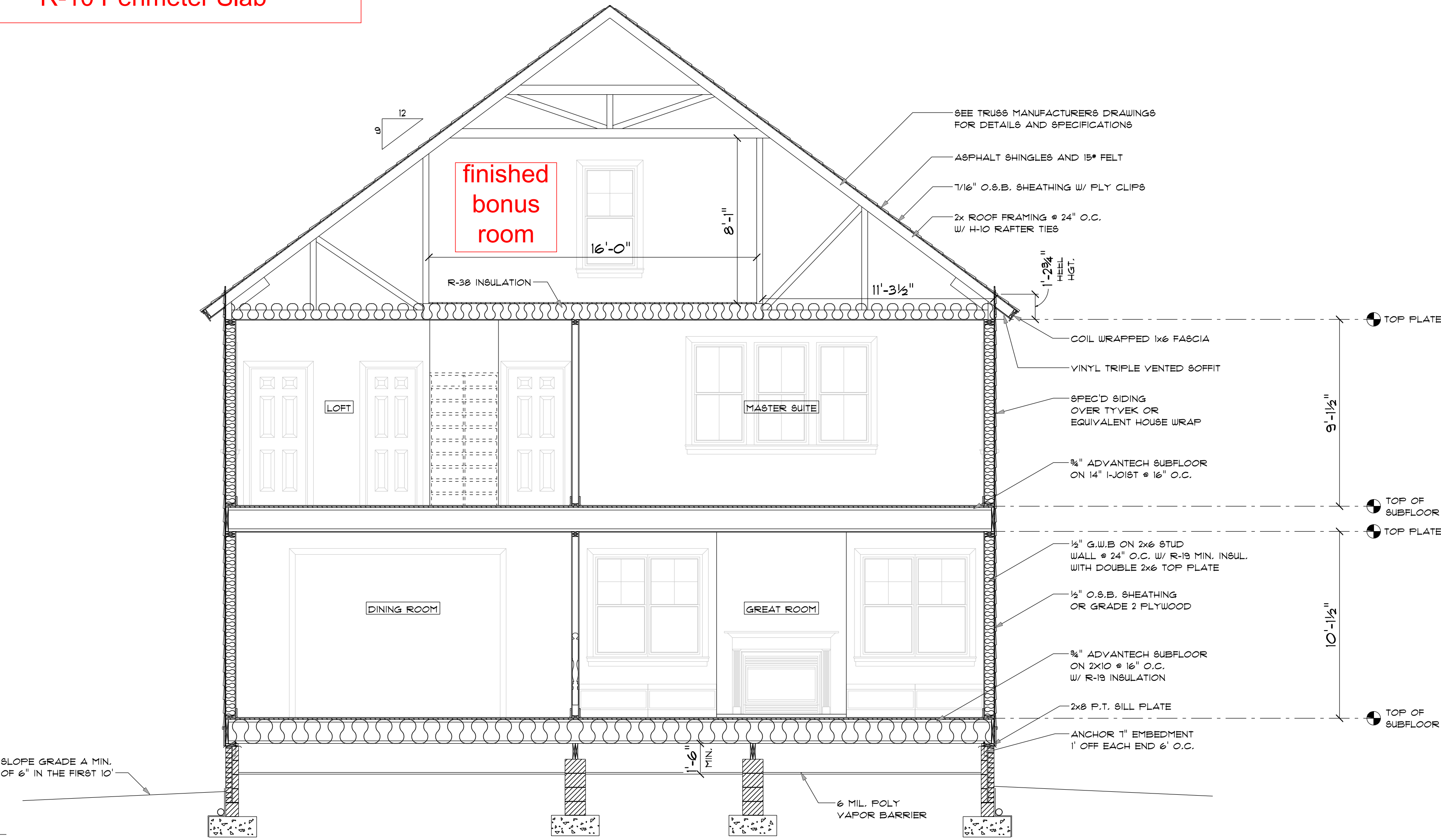
Minimum Insulation Values
R-15 Walls
R-19 Floor
R-49 Ceiling
R-10 Perimeter Slab



TYPICAL LARGE SCALE WALL SECTION
SCALE: 1" = 1'-0"

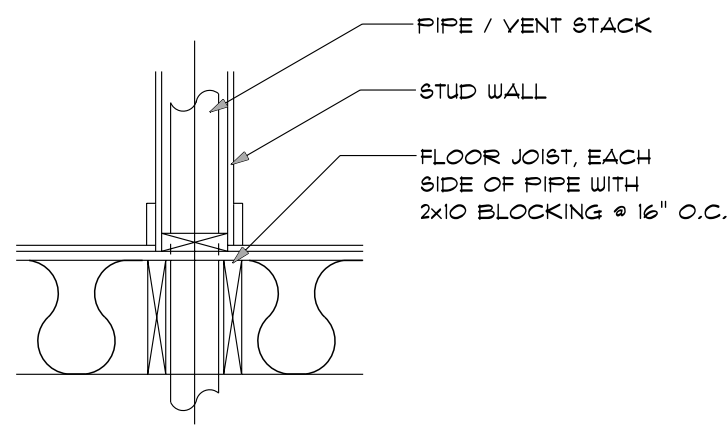


TYPICAL COLUMN SECTION
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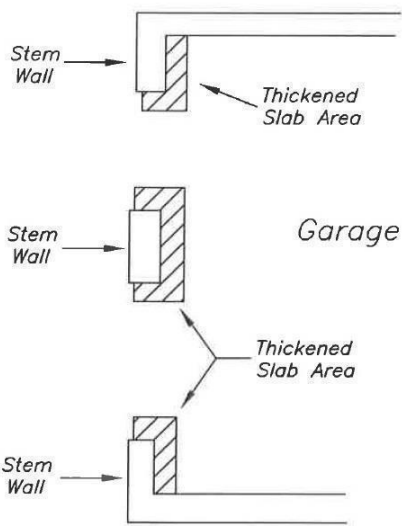
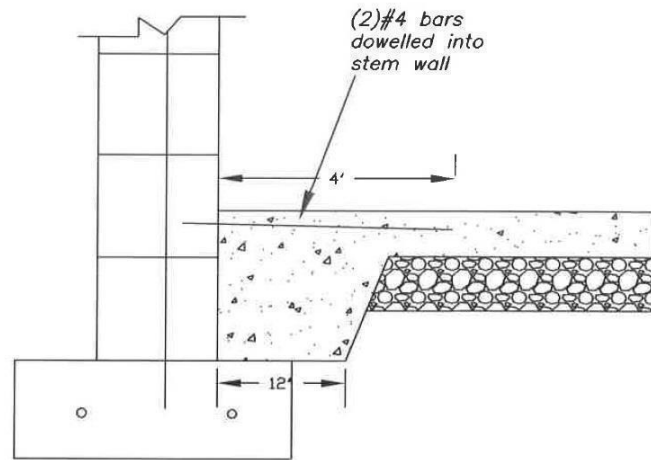
SECTION 'A'
SCALE: 1/4" = 1'-0"

1/2" Anchor Bolts to be in Center
of CMU Block, 12" max. From Sill
Plate Ends and 6' max. o.c.



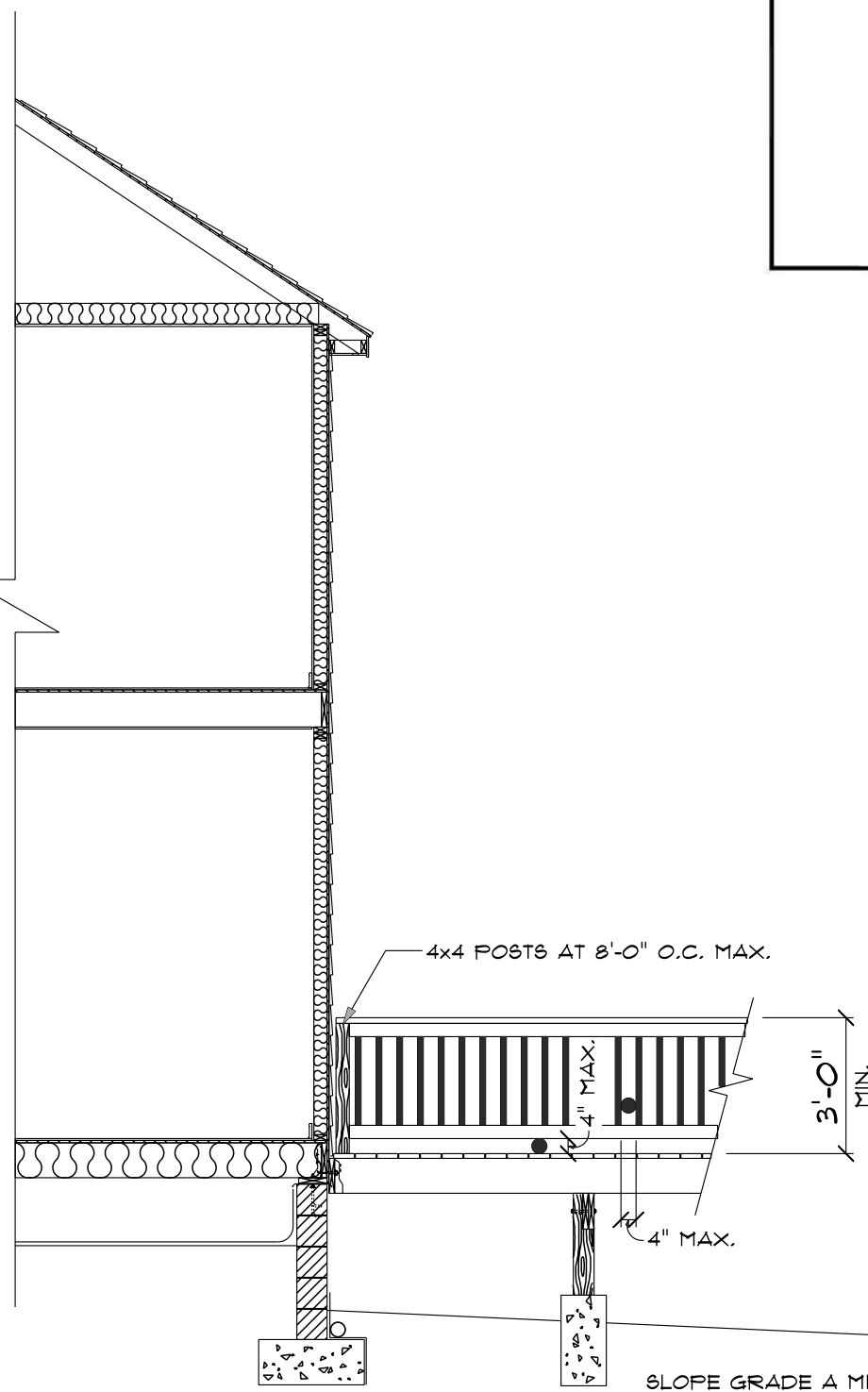
TYPICAL PIPE THRU FLOOR

SCALE: 3/4" = 1'-0"



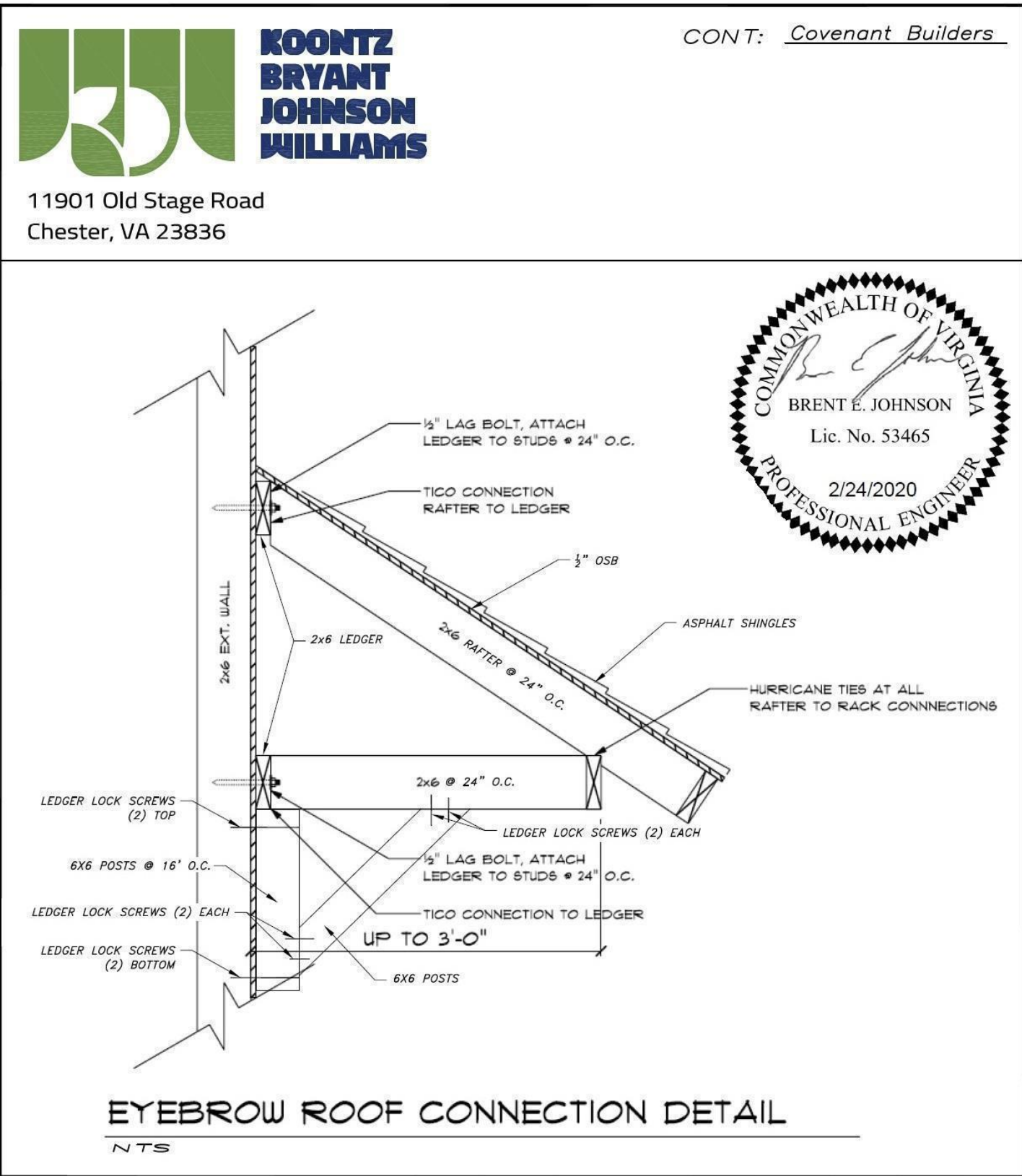
Typical Repair For Stem Wall > 48" Tall
NOT TO SCALE

STEM WALL DETAIL
NOT TO SCALE



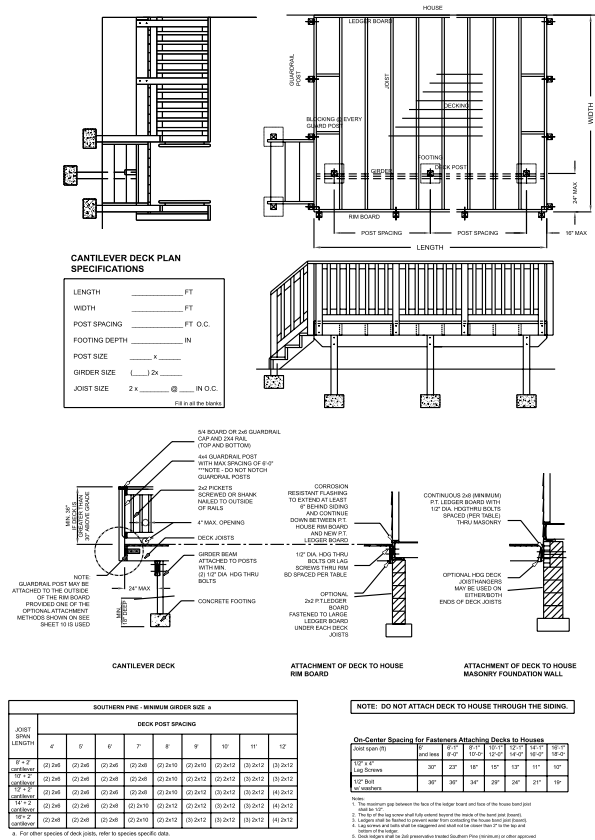
TYPICAL DECK SECTION

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

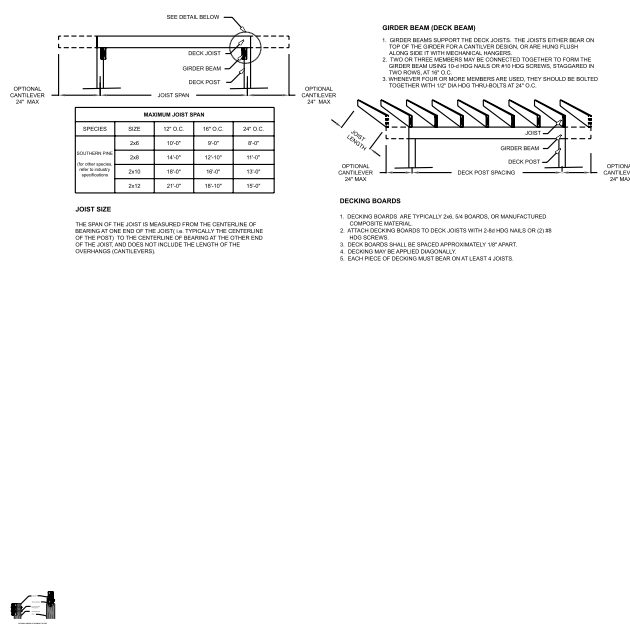


EYEBROW ROOF CONNECTION DETAIL
NTS

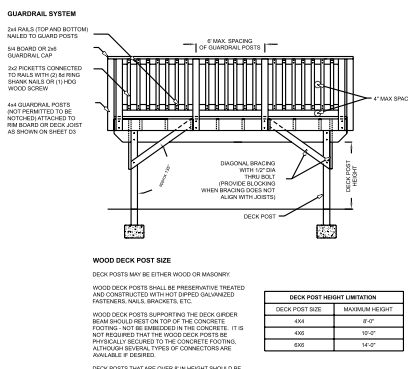
CANTILEVER



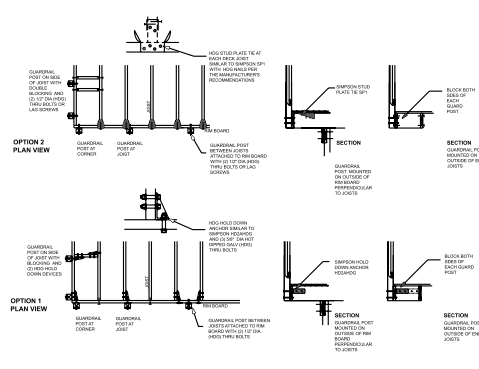
JOISTS AND BEAMS



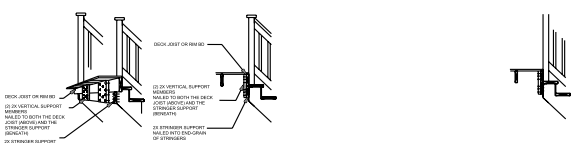
POSTS



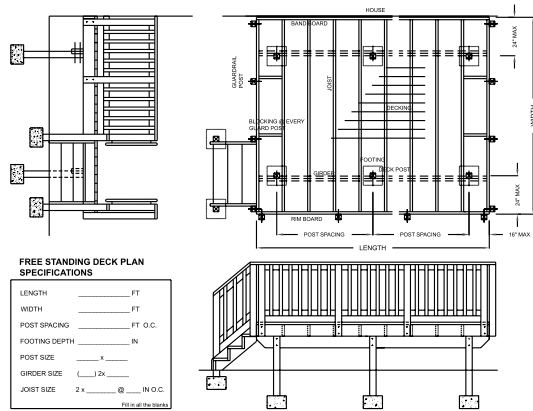
ATTACHMNETS



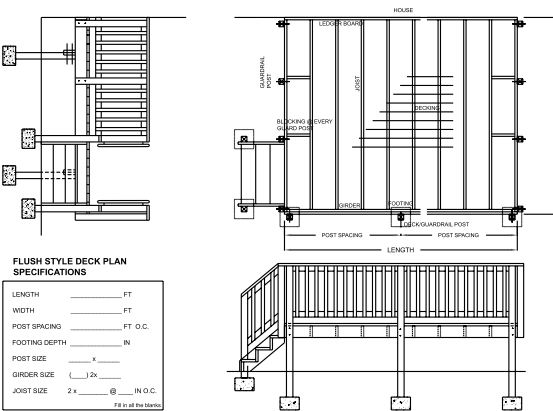
STAIRS



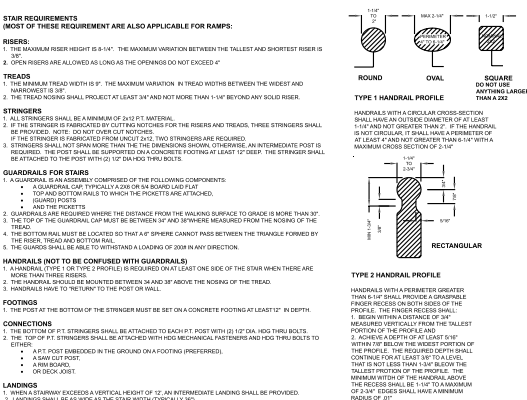
FREE STANDING



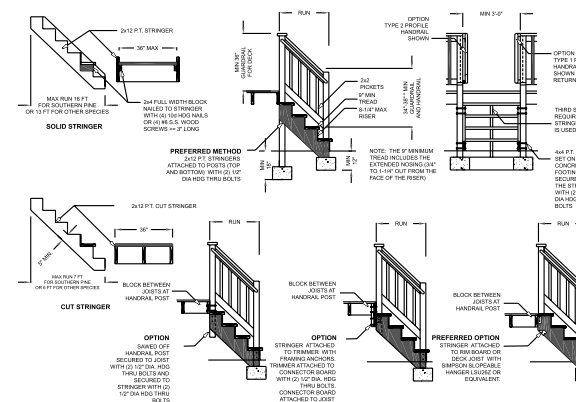
FLUSH



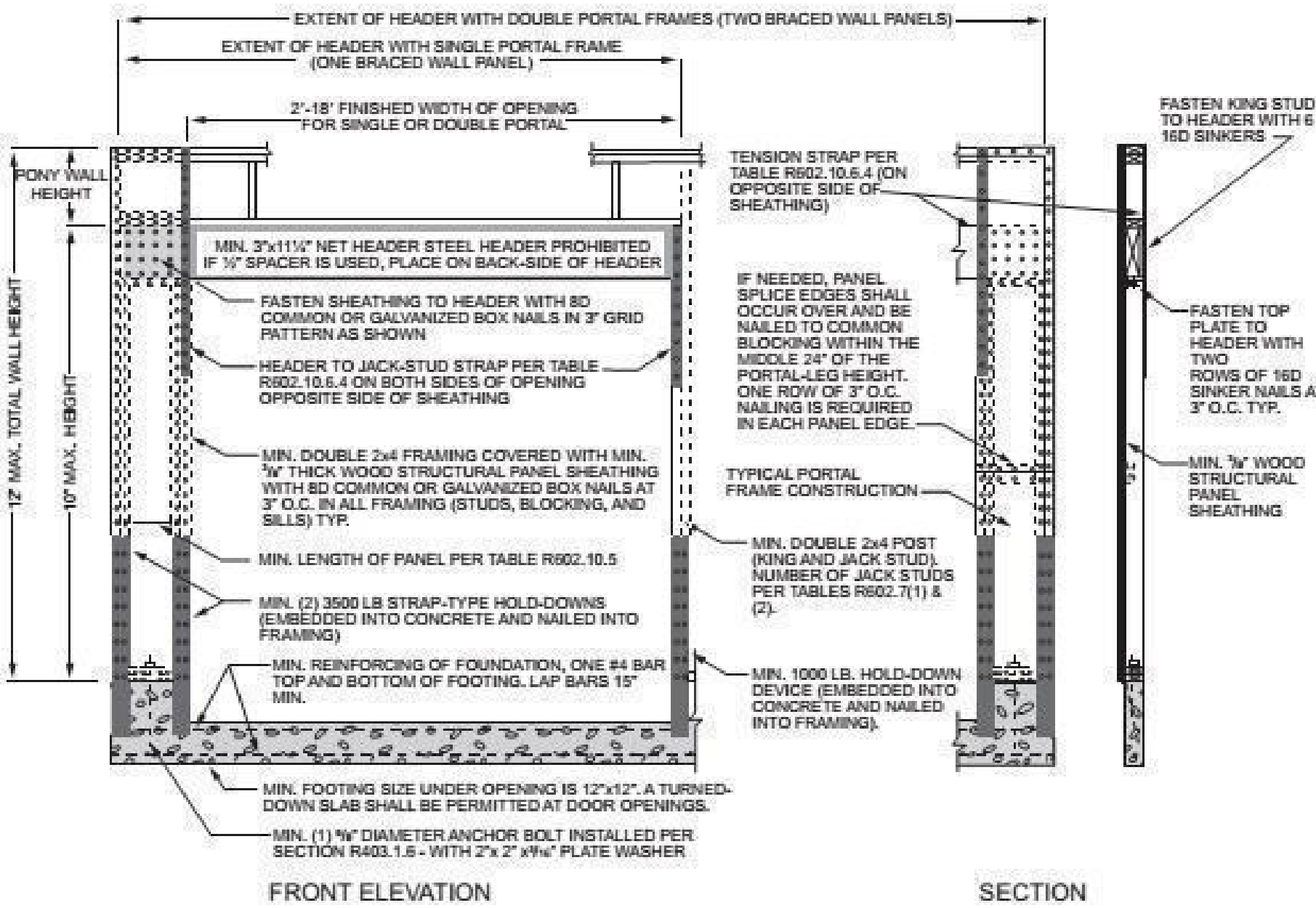
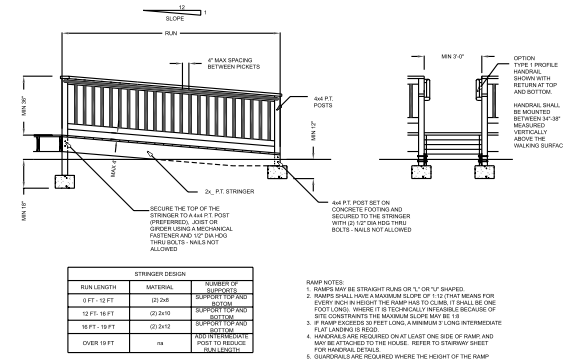
HANDRAILS



STAIRS



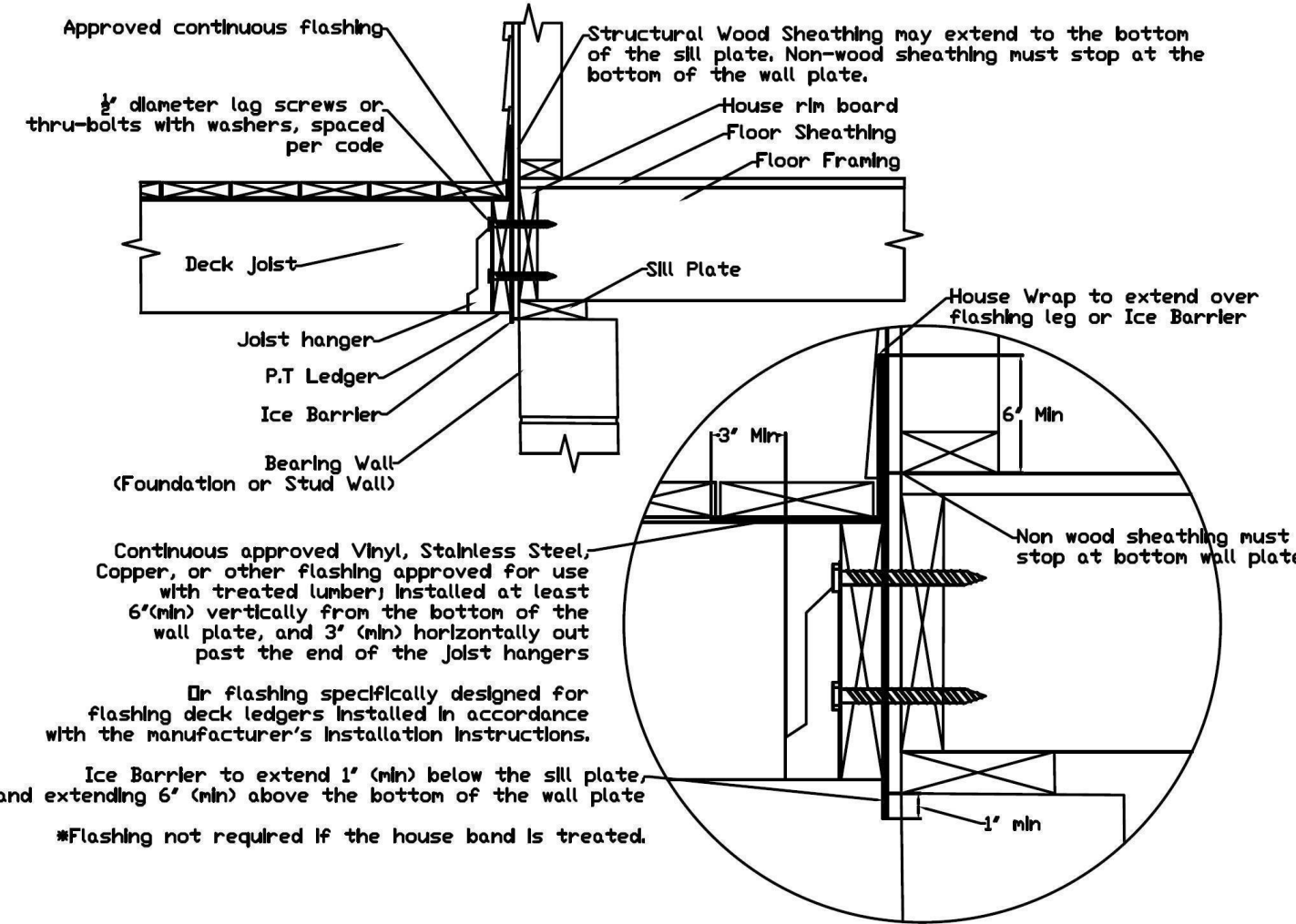
RAMPS



PORTAL FRAMING DETAIL

NOT TO SCALE

Deck Flashing Detail in lieu of Pressure Treated House Rim Board



DECK CONNECTION DETAIL

NOT TO SCALE

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PAGE: 11
DETAILS

REVISION 1:

SECTION
LETTER

PAGE
NUMBERS

REVISION 2:

SCALE: As Noted

DRAWN BY: Adam V. Gregoire

DATE: Thursday, August 29, 2024

Covenant Building + Design

7701 Whitepine Rd. Richmond, VA 23237

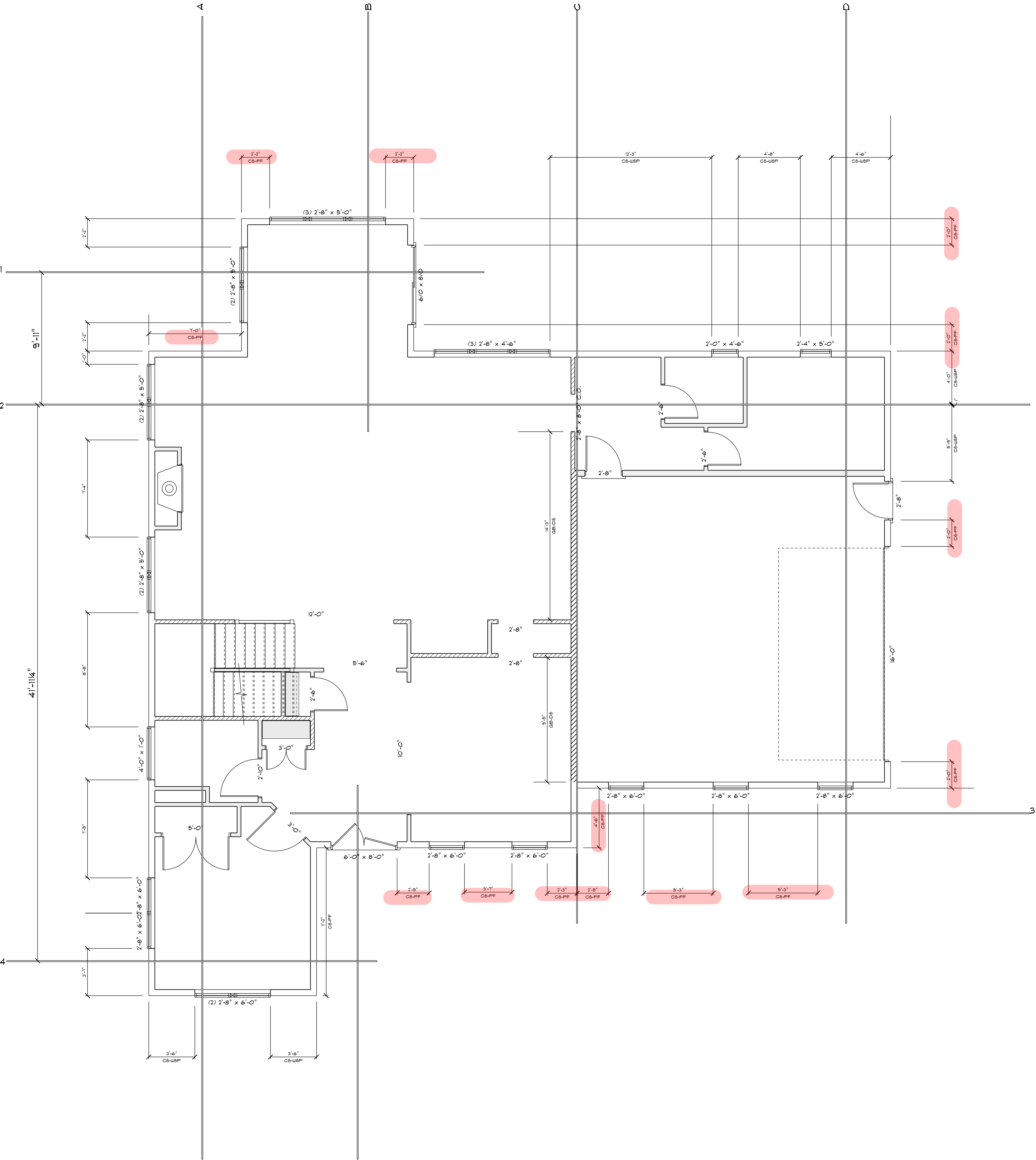
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BWL 1
SCALE: 1/4" = 1'-0"

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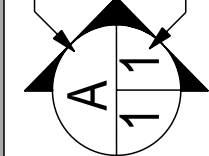
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BWL

PAGE:

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"CLASSIC" WALL BRACING WORKSHEET PER THE 2018 VIRGINIA RESIDENTIAL CODE

WIND SPEED (MPH)		90																							
BWL DESIGNATION		A				B				C				D											
NUMBER OF FLOORS ABOVE BWL		1				0				1				1											
BWP METHOD		CS-WSP				PFH				GB				CS-WSP											
AVERAGE BWL SPACING (ft)		12.5				12.33				17				22											
TABULAR REQUIREMENT (ft)		4.25				2.47				11.20				7.00											
ADJUSTMENT	EXPOSURE	B		1.00		B		1.00		B		1.00		B		1.00									
	EAVE-TO-RIDGE HT (ft)	14.00	1.12	5.00	0.70	14.00	1.12	14.00	1.12	14.00	1.12														
	MAXIMUM WALL HEIGHT (ft)	10.00	1.00	10.00	1.00	10.00	1.00	10.00	1.00	10.00	1.00														
	NUMBER OF BWLS	4	1.45	2	1.00	3	1.30	3	1.30	3	1.30														
	OMIT INTERIOR FINISH	Yes	1.40	No	1.00	No	1.00	No	1.00	Yes	1.40														
	ADD PAIR BOO# HOLD DOWNS	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00														
	HORIZONTAL JOINTS BLOCKED	No	2.00	Yes	1.00	No	2.00	No	2.00	No	2.00														
	REDUCED FASTENER SPACING	No	1.00	No	1.00	No	1.00	Yes	0.83																
REQUIRED BWP LENGTH (ft)		9.66				1.73				16.31				11.84											
ACTUAL BWP	BWP	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH
	1	CS-PF	2.00	PFH	2.00	GB (ds)	14.25	CS-WSP	4.00																
	2	CS-PF	2.25	PFH	2.00	GB (ds)	9.50	CS-WSP	5.70																
	3	CS-WSP	8.00			CS-WSP	4.50	CS-PF	2.00																
	4	CS-WSP	8.00					CS-PF	2.00																
	5	CS-WSP	7.75																						
	6																								
	7																								
ACTUAL BWP LENGTH (ft)		28.00				4.00				28.25				13.70											
ACTUAL ≥ REQUIRED?		PASS				PASS				PASS				PASS											
BWPs ≤ 20' APART?		Yes				Yes				Yes				Yes											
≥ 2 PANELS IN BWL?		Yes				Yes				Yes				Yes											
BWP BEGINS ≤ 10' FROM END?		Yes				Yes				Yes				Yes											
CONTINUOUS SHEATHING		END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2
END CONDITIONS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA												
BWL COMPLIANCE		PASS				PASS				PASS															

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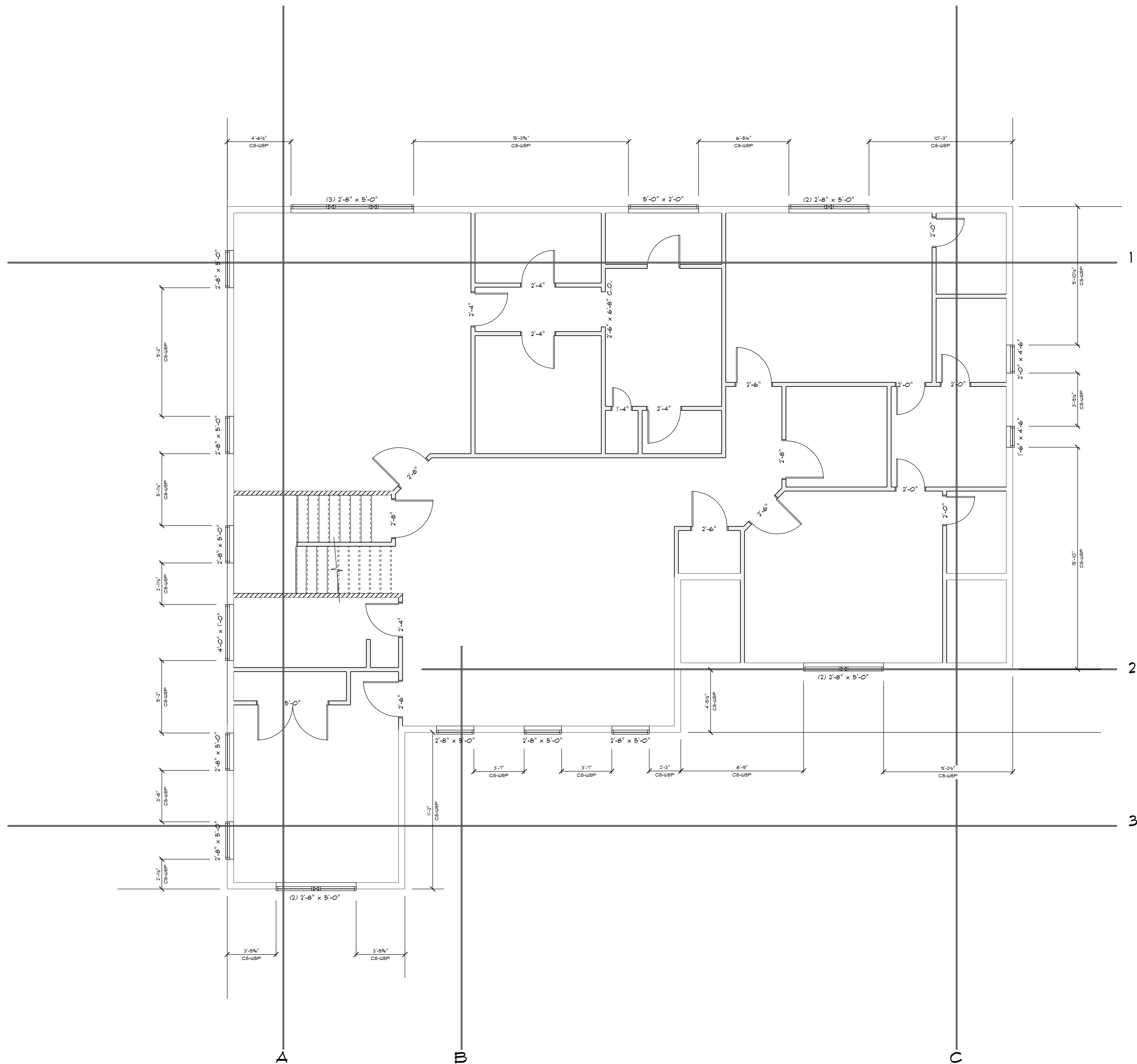
Version 5/14/2015

"CLASSIC" WALL BRACING WORKSHEET PER THE 2018 VIRGINIA RESIDENTIAL CODE

WIND SPEED (MPH)		90																
BWL DESIGNATION		A				B				C				D				
NUMBER OF FLOORS ABOVE BWL		1				0				1				1				
BWP METHOD		CS-WSP				PFH				GB				CS-WSP				
AVERAGE BWL SPACING (ft)		12.5				12.33				17				22				
TABULAR REQUIREMENT (ft)		4.25				2.47				11.20				7.00				
ADJUSTMENT	EXPOSURE	B		1.00		B		1.00		B		1.00		B		1.00		
	EAVE-TO-RIDGE HT (ft)	14.00	1.12	5.00	0.70	14.00	1.12	14.00	1.12									
	MAXIMUM WALL HEIGHT (ft)	10.00	1.00	10.00	1.00	10.00	1.00	10.00	1.00	10.00	1.00							
	NUMBER OF BWLS	4	1.45	2	1.00	3	1.30	3	1.30	3	1.30							
	OMIT INTERIOR FINISH	Yes	1.40	No	1.00	No	1.00	Yes	1.40	Yes	1.40							
	ADD PAIR BOO# HOLD DOWNS	No	1.00	No	1.00	No	1.00	No	1.00	No	1.00							
	HORIZONTAL JOINTS BLOCKED	No	2.00	Yes	1.00	No	2.00	No	2.00	No	2.00							
	REDUCED FASTENER SPACING	No	1.00	No	1.00	No	1.00	No	1.00	Yes	0.83							
	REQUIRED BWP LENGTH (ft)	9.66				1.73				16.31				11.84				
ACTUAL BWP	CONTRIBUTING LENGTH (feet)	BWP	METHOD		LENGTH		METHOD		LENGTH		METHOD		LENGTH		METHOD		LENGTH	
		1	CS-PF	2.00	PFH	2.00	GB (ds)	14.25	CS-WSP	4.00								
		2	CS-PF	2.25	PFH	2.00	GB (ds)	9.50	CS-WSP	5.70								
		3	CS-WSP	8.00			CS-WSP	4.50	CS-PF	2.00								
		4	CS-WSP	8.00					CS-PF	2.00								
		5	CS-WSP	7.75														
		6																
	7																	
	ACTUAL BWP LENGTH (ft)		28.00				4.00				28.25				13.70			
	ACTUAL ≥ REQUIRED?		PASS				PASS				PASS				PASS			
BWPs ≤ 20' APART?		Yes				Yes				Yes				Yes				
≥ 2 PANELS IN BWL?		Yes				Yes				Yes				Yes				
BWP BEGINS ≤ 10' FROM END?		Yes				Yes				Yes				Yes				
CONTINUOUS SHEATHING		END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	
END CONDITIONS		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BWL COMPLIANCE		PASS				PASS				PASS				PASS				

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Version 5/14/2015



BWL 2
SCALE: 1/4" = 1'-0"

WIND SPEED (MPH)						90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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"CLASSIC" WALL BRACING WORKSHEET PER THE 2018 VIRGINIA RESIDENTIAL CODE																													
WIND SPEED (MPH)		90																											
BWL DESIGNATION		A		B		C																							
NUMBER OF FLOORS ABOVE BWL		0		0		0																							
BWP METHOD		CS-WSP		CS-WSP		CS-WSP																							
AVERAGE BWL SPACING (ft)		12		20		26																							
TABULAR REQUIREMENT (ft)		2.30		3.50		4.40																							
ADJUSTMENT	EXPOSURE		B	1.00	B	1.00	B	1.00																					
	EAVE-TO-RIDGE HT (ft)		14.00	1.24	9.00	0.94	14.00	1.24																					
	MAXIMUM WALL HEIGHT (ft)		9.00	0.95	9.00	0.95	9.00	0.95																					
	NUMBER OF BWLS		3	1.30	3	1.30	3	1.30																					
	OMIT INTERIOR FINISH		Yes	1.40	Yes	1.40	Yes	1.40																					
	ADD PAIR BOOF# HOLD DOWNS		No	1.00	No	1.00	No	1.00																					
	HORIZONTAL JOINTS BLOCKED		No	2.00	No	2.00	No	2.00																					
	REDUCED FASTENER SPACING		No	1.00	No	1.00	No	1.00																					
REQUIRED BWP LENGTH (ft)		4.93		5.69		9.43																							
ACTUAL BWP	CONTRIBUTING LENGTH (feet)		BWP	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH	METHOD	LENGTH
			1	CS-WSP	2.50	CS-WSP	4.00	CS-WSP	9.00																				
			2	CS-WSP	5.00	CS-WSP	4.00	CS-WSP	3.50																				
	WSP_SF6 = actual G6 (sf) = 0.5 x actual G6 (sf) = actual CS-PF = 1.5 x actual PF6 = 1.5 x actual PFH, ABW = 4 feet		3	CS-WSP	3.00			CS-WSP	15.00																				
			4	CS-WSP	5.20																								
			5																										
			6																										
			7																										
ACTUAL BWP LENGTH (ft)		15.70		8.00		27.50																							
ACTUAL ≥ REQUIRED?		PASS		PASS		PASS																							
BWPs ≤ 20' APART?		Yes		Yes		Yes																							
≥ 2 PANELS IN BWL?		Yes		Yes		Yes																							
BWP BEGINS ≤ 10' FROM ENDS?		Yes		Yes		Yes																							
CONTINUOUS SHEATHING END CONDITIONS		END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2	END 1	END 2
BWL COMPLIANCE		PASS		PASS		PASS																							

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