

LOT 3 HOLLY PLACE  
4065 BARBECUE CHURCH RD  
SANFORD, NC 27332



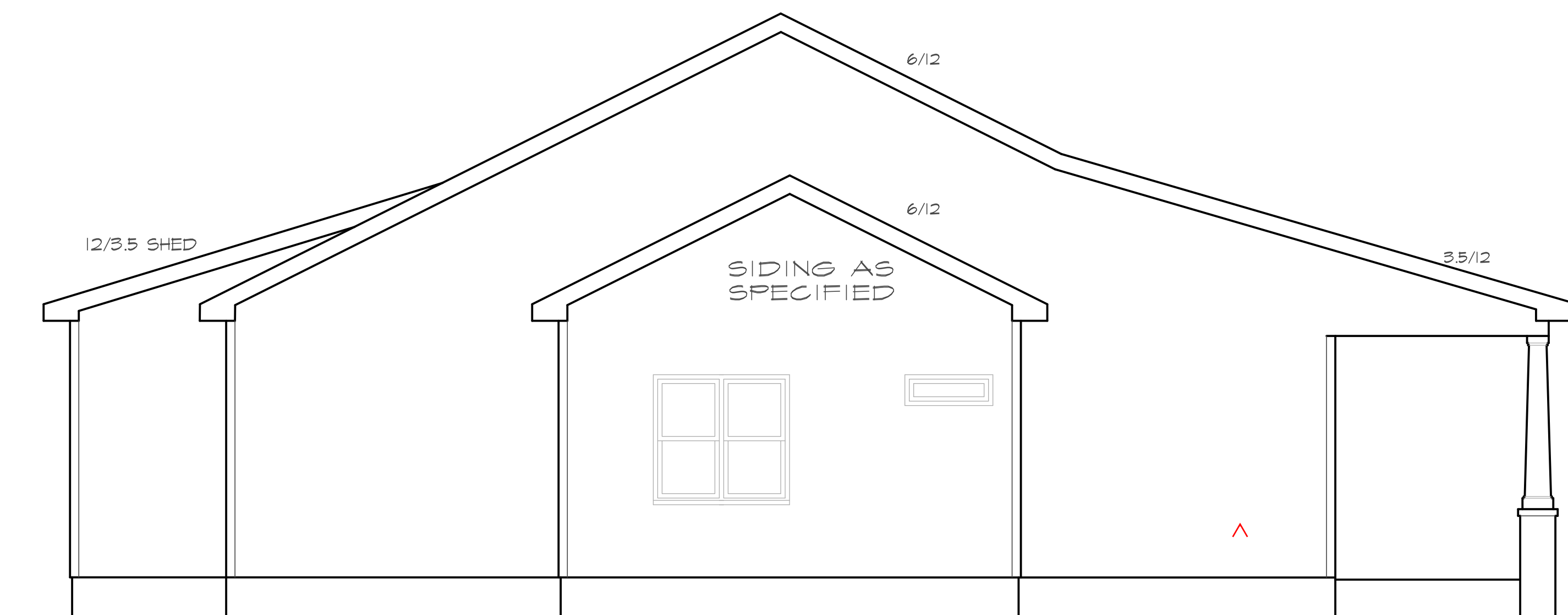
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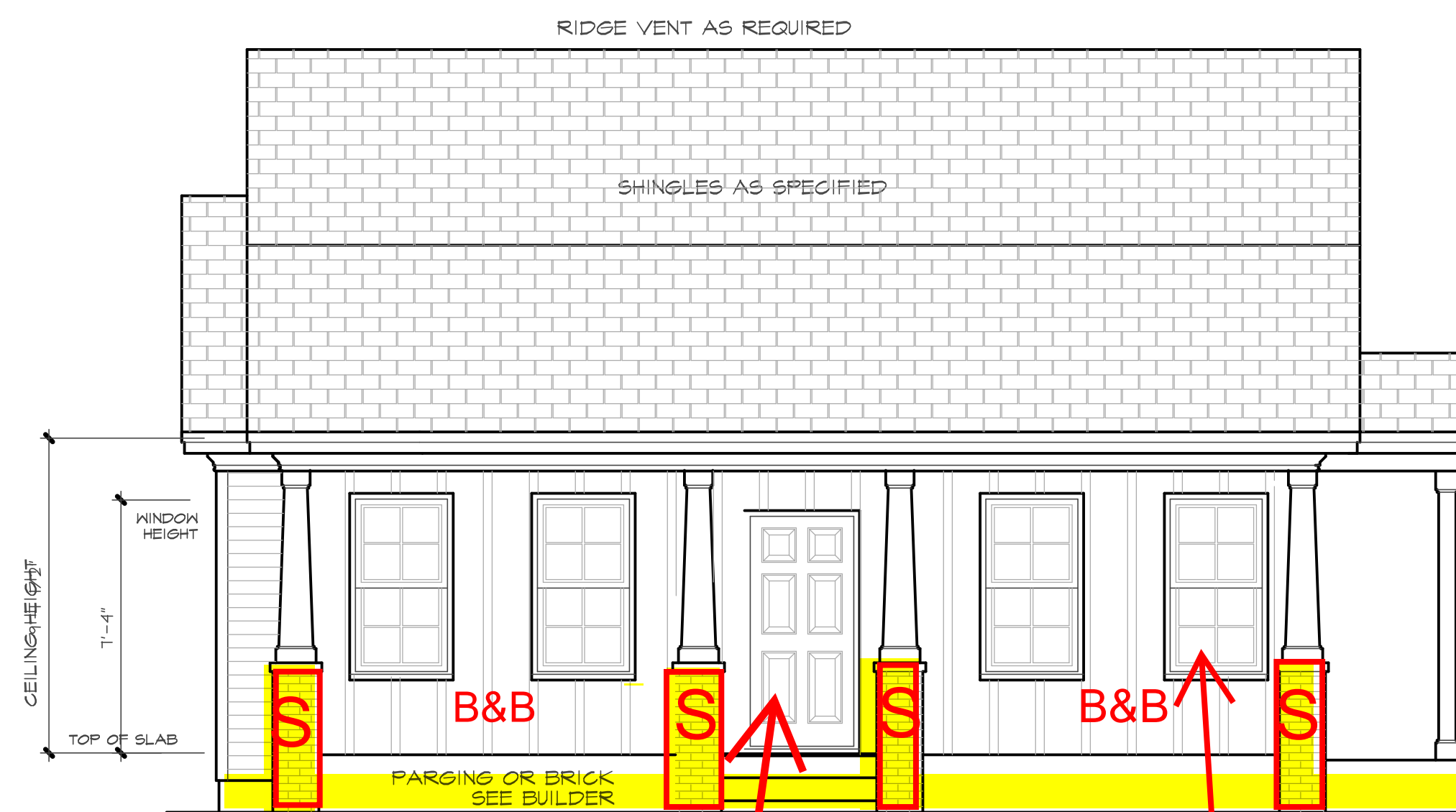
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LEFT SIDE ELEVATION

SCALE 1/8" = 1'0"



FRONT ELEVATION

SCALE 1/4" = 1'0"

CRAFTSMAN FRONT DOOR

4/clear windows

**ATTIC VENTILATION:**

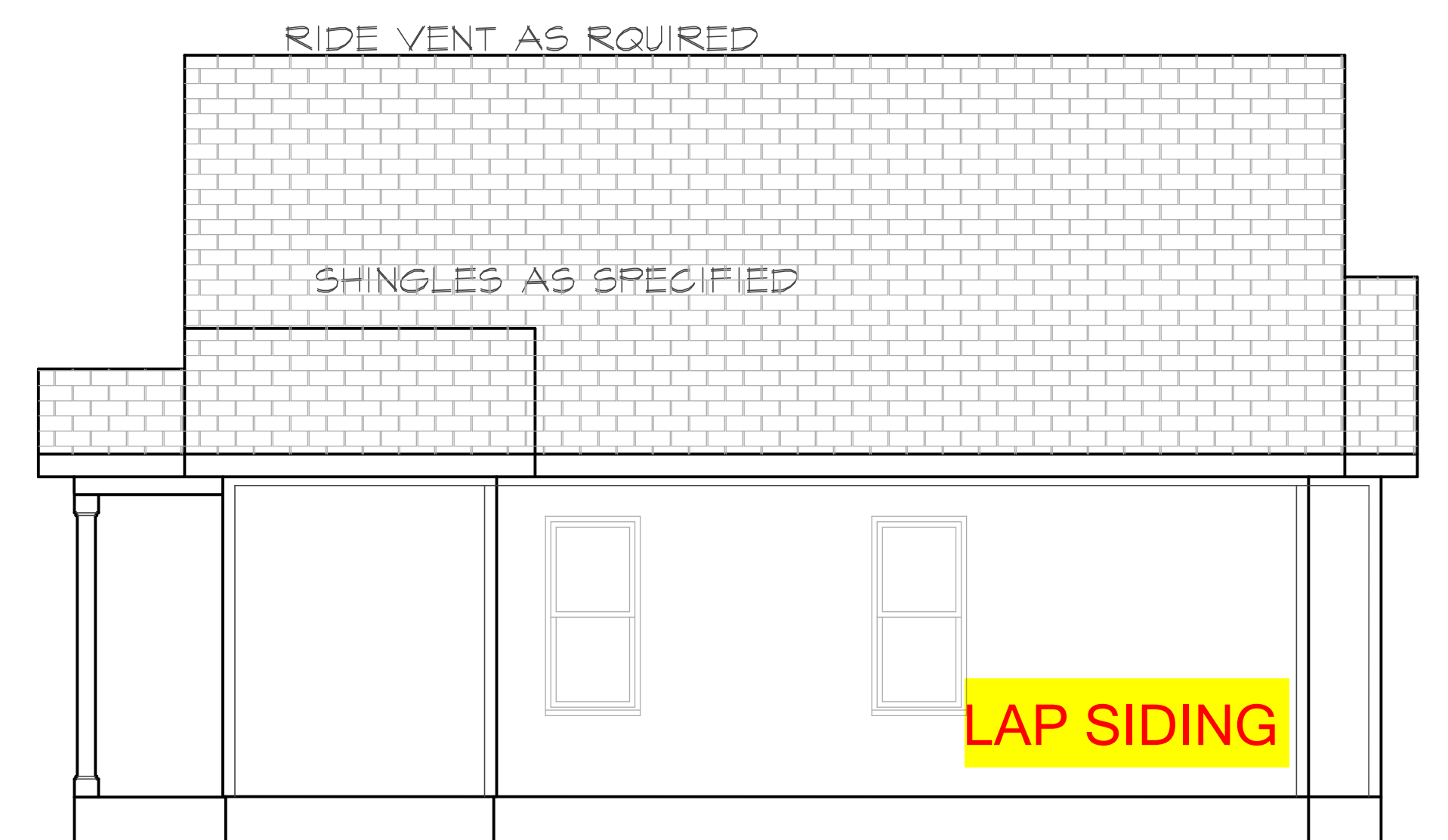
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 80 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 900 PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

GROSS ATTIC AREA TO BE VENTILATED 1255 SQ.FT.  
1255/900 = 4.2 SQ.FT. NET FREE AREA  
50% OF VENTING MUST BE 3FT. ABOVE EAVE OR SOFFIT VENTS.

**NOTICE TO CONTRACTOR**  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

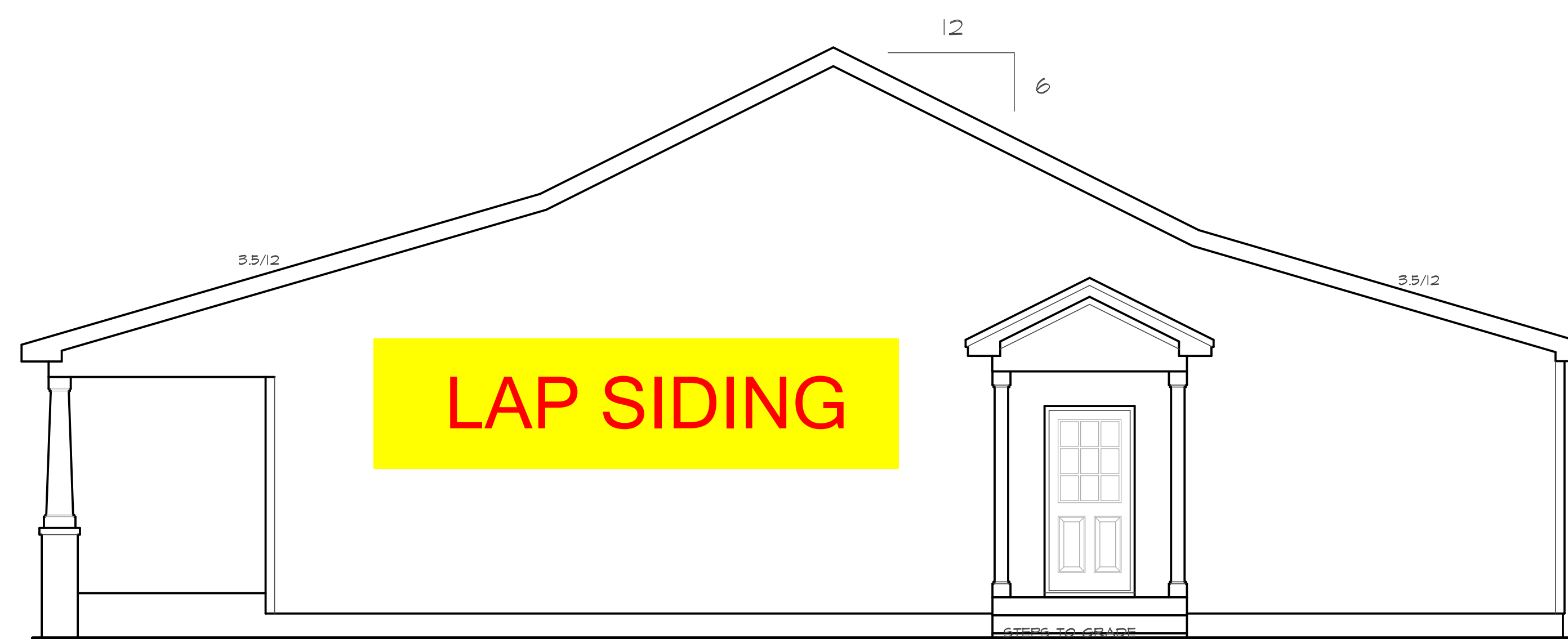
**APPROVED**  
Limited building only review  
Permit holder responsible for full compliance with the code.

11/15/2023



REAR ELEVATION

SCALE 1/8" = 1'0"



RIGHT SIDE ELEVATION

SCALE 1/8" = 1'0"

Plan # BELLA IV REVERSE

THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2018 IRC)

10/19/2023

PROJECT # 231005

**FOUNDATION STRUCTURAL NOTES:**

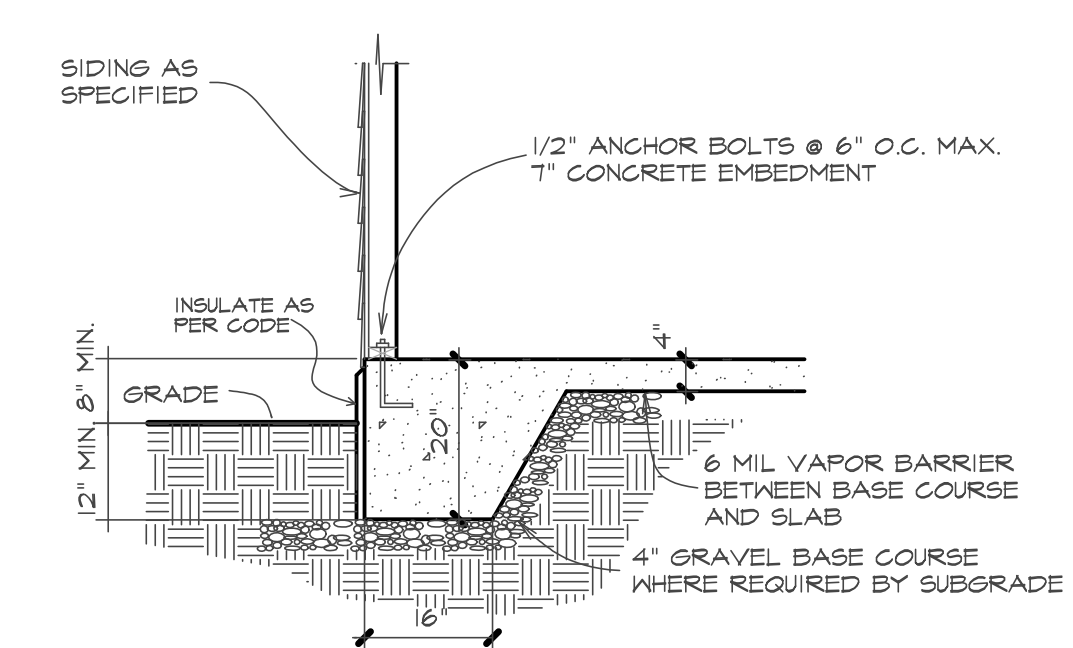
1. (B) 2 x 10 SFF #2 GIRDER DROPPED TYPICAL UND.
2. CONCRETE BLOCK PIER SIZE SHALL BE:  

SIZE	HOLLOW MASONRY	SOLID MASONRY
8 x 16	UP TO 32" HIGH	UP TO 5'-0" HIGH
12 x 16	UP TO 48" HIGH	UP TO 9'-0" HIGH
16 x 16	UP TO 64" HIGH	UP TO 12'-0" HIGH
24 x 24	UP TO 96" HIGH	UP TO 16' HIGH
3. WALL FOOTING AS FOLLOWS:  
 DEPTH: 8" - UP TO 2-1/2 STORY  
 10" - 3 STORY  
 WIDTH: SIDING (OR EQUAL)  
 - 16" - UP TO 2-1/2 STORY  
 - 18" - 3 STORY  
 BRICK VENEER  
 - 16" - 1 STORY  
 - 20" - 2 STORY  
 - 24" - 3 STORY  
 FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R401.1 (1) THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED. ATTACH SILL PLATE WITH 1/2" dia. ANCHOR BOLTS AT 6'-0" CENTERS (1" EMBEDMENT) AND 12" FROM EACH PLATE END. (SECTION R 405.16)  
 4. ■ DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND. TYPICAL.  
 5. ABBREVIATIONS:  
 "S" = SINGLE JOIST  
 "D" = DOUBLE JOIST  
 "T" = TRIPLE JOIST  
 6. (A) 2 x 10 SFF #2 GIRDER, TYPICAL UND.

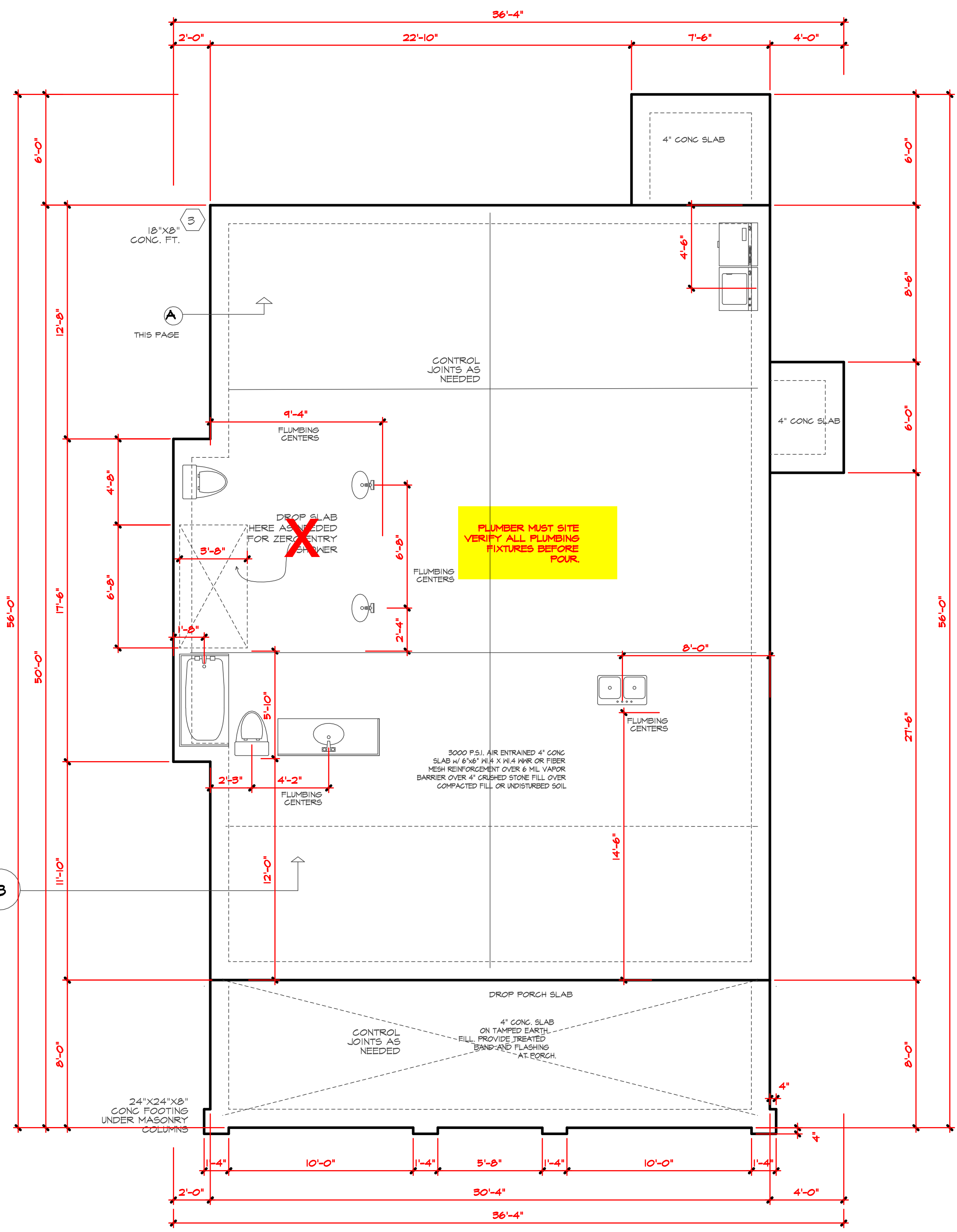
**FOUNDATION NOTES:**

1. Deck posts min. 4'-0" above grade are to be base or diagonally braced per Appendix M. Fastening to house will be by nailer with SIP galvanized bolts @ 20" o.c. and 10d hot dipped galv @ 42" o.c.
2. Concrete shall be finished with one of the approved methods as outlined in R402.10.3.
3. Structural member fastening to concrete to follow R402.2(1) and (2).
4. Girders and piers shall bear on center 1/3 of pier and footing, respectively.
5. 2015 NC State Residential Building Code apply to the construction of this project.
6. Typical lag footing to be 18" x 8" deep. (LNU)
7. Pressure treated wood shall be installed for exterior use.
8. Hanger Schedule (Simpson Hangers) for beam to beam connections (LNU)  
 a. (2024) S LUS2-D2  
 b. (2024) S LUS2-D3  
 c. (2024) S LUS2-D4  
 d. (2024) S LUS2-D5
9. Concrete shall have min. 28 day strength of 3000 psi and max. slump of 6 inches unless noted otherwise (LNU). All entrained per Table A402. All concrete shall be proportioned, mixed, handled, sampled, tested, and placed in accordance with ACI current standards. All samples for sampling shall be taken from the test pile.
10. Allowable soil bearing pressure assumed to be 2000 psf. The contractor must contact Geotechnical Engineer & the Site Journal Engineer if manufacturing subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

**TILE SHOWER  
ZERO ENTRY  
TILE MASTER BATH/FLOOR**



SECTION THROUGH MONOLITHIC SLAB/ FOOTING  
SCALE 1/2" = 1'-0"



**MONOLITHIC SLAB PLAN**  
SCALE 1/4" = 1'-0"

Plan # **BELLA IV** REVERSE

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DATE 10/19/2023

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**STRUCTURAL NOTES:**

- Framing lumber shall be #2 SPF modulus of elasticity 1,100,000 psi, E=1,600,000, fb=1100 min. Studs min #2 or stud grade.
- Use hangers for all beam to beam connections. Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
- Structural members fastening to conform to Table R602.3(1) and (2).
- Roof Framing Notes:
  - DBHs may be spliced with a min. 6'-0" one-lap at center. No valley splices.
  - Use 2x10 or fit down rafters for vaulted areas.
  - Attach vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved equal.
- All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IRC.
- Structural Engineer is not responsible for and will not control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
- Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.

**FRAMING NOTES:**

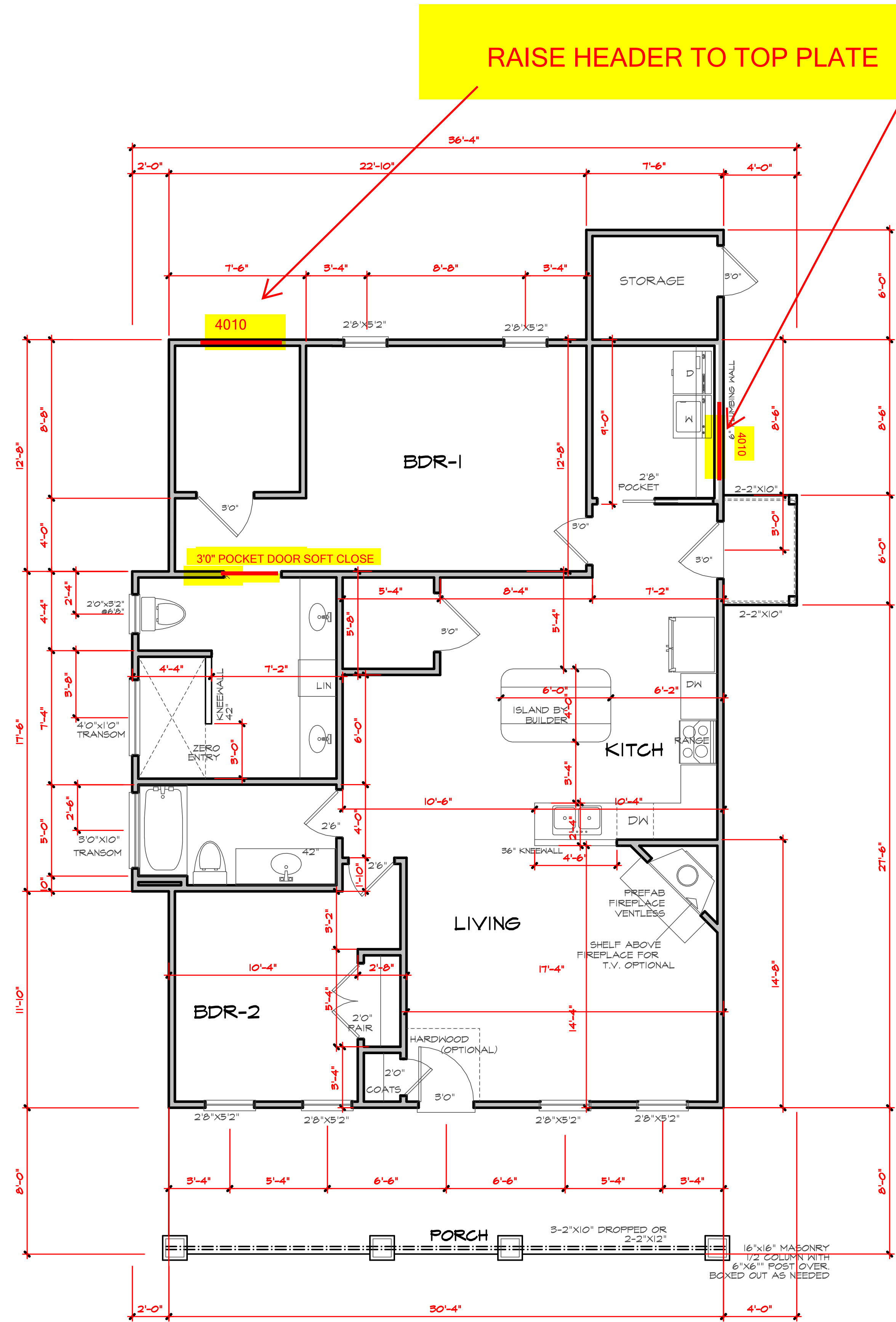
- | Design Loads (R301.5)                | Live Loads (PSF) | Dead Loads (PSF) |
|--------------------------------------|------------------|------------------|
| Rooms not for sleeping               | 40               | 10               |
| Sleeping Rooms                       | 30               | 10               |
| Attic w/ Permanent Stairs            | 40               | 10               |
| Attic w/o Permanent Stairs           | 20               | 10               |
| Attic w/o Storage                    | 10               | 10               |
| Stairs                               | 40               | -                |
| Exterior Balconies                   | 60               | 10               |
| Decks                                | 40               | 10               |
| Guardrails & Handrails               | 200              | -                |
| Passenger Vehicle Garages            | 50               | 10               |
| Fire Escapes                         | 40               | 10               |
| Snow                                 | 20               | -                |
| Wind Load: (Refer to Table R301.2.4) |                  |                  |
- Verify Zones before Construction.
  - Walls: Shear: Braced wall panels shall be constructed according to section R602.10.3. The wall structural sheathing shall comply with Table R602.10.5. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 3 by continuously sheathing walls with structural sheathing per Table R601.3. Note that any specific braced wall detail shall be installed as specified.
  - All framing lumber shall be SPF #2 (Fb=975 psi) unless otherwise noted (LNO). All treated lumber shall be SPF #2 (Fb=975 psi). Flats material vary by SFR#3 or SFR#5 (Fb=975 psi) = 425 psi min. All interior bearing headers to be (2)2x10 u.o.n. w/ db. jacks for all openings > 4'-6" use (2)2x8 w/ db. jacks for all openings > 3'-9" u.o.n.
  - All interior non-bearing headers to be min. (2)2x4 flat u.o.n.
  - Finisock to conform with R602.8

**HEADER/BEAM & COLUMN NOTES**

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDO COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
  - UP TO 3' SPAN: (1) KING STUD
  - OVER 3' UP TO 6' SPAN: (2) KING STUDS
  - OVER 6' UP TO 9' SPAN: (3) KING STUDS
  - OVER 9' UP TO 12' SPAN: (4) KING STUDS
  - OVER 12' UP TO 15' SPAN: (5) KING STUDS

**TILE SHOWER  
ZERO ENTRY  
TILE MASTER BATH AND FLOOR  
GSM SHOWER CONFIGURATION**

**RAISE HEADER TO TOP PLATE**



SQUARE FOOTAGE	
1,306 SQ.FT.	FIRST FLOOR
45 SQ.FT.	STORAGE
242 SQ.FT.	FRT. PORCH

**NOTE!**  
TRUSS MANUFACTURER TO  
SIZE ALL STRUCTURAL MEMBERS.

**FLOOR PLAN** SCALE 1/4" = 1'-0"

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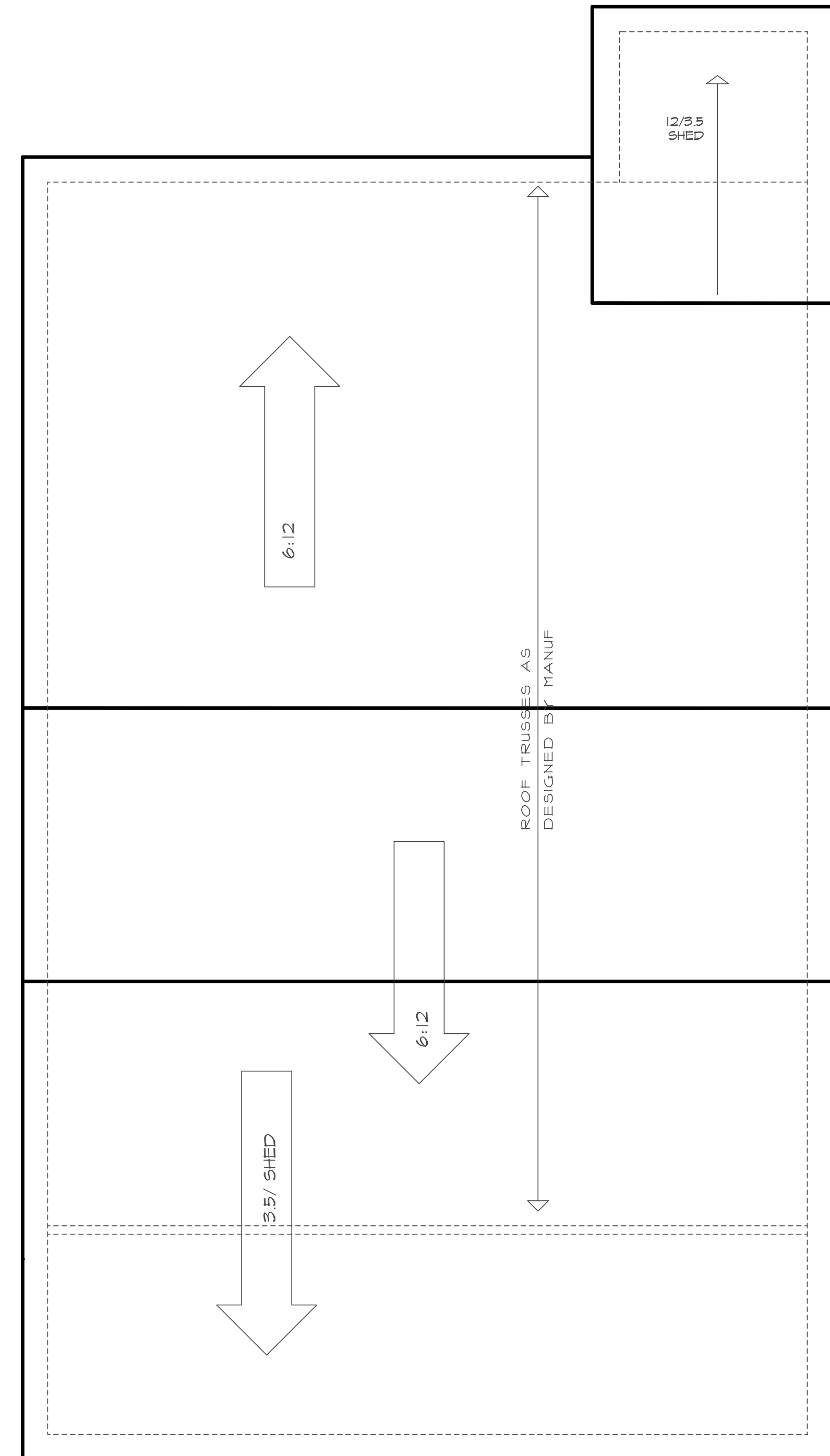
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**TRUSS SYSTEM REQUIREMENTS**

NC (2018 NRC), Wind: 115-120 mph

1. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH ENGINEER OF RECORD.

2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPP #2 OR #3 PLATES OR LEDGERS (ANG).

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

NOTE!  
ROOF TRUSSES BY OTHERS

**ROOF PLAN**

Plan # **BELLA IV** REVERSE

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DATE 10/19/2023

PROJECT # 231005

**STRUCTURAL NOTES**

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2018 IRC), PLUS ALL LOCAL CODES AND REGULATIONS.  
ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

2) DESIGN LOADS SEE TABLE R301.5

WIND SPEED: (REFER TO TABLE R301.2.4)  
VERIFY ZONE BEFORE CONSTRUCTION.

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION AND CONSTRUCTION OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/OR APPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (NO). AIR ENTRAINMENT PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.

5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

6) ALL FRAMING LUMBER SHALL BE SPF #2 (FB = 875 PSI) UNLESS NOTED OTHERWISE (NO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=475 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC/PERP) = 425 PSI - MIN.

7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2X4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN (NO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-0" (NO).

8) LVL SHALL BE LAMINATED VENEER LUMBER, FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER, FB=2400 PSI, FV=280 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER, FB=2250 PSI, FV=400 PSI, E=1,950,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

10) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2 INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.

11) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.

12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.

13) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 4'-0" (NO).

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS SEE R301.2(6).

**DWELLING / GARAGE SEPARATION**

REFER TO SECTIONS R302.3, R302.6, AND R302.7

**WALLS.** A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.  
**STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

**CEILING.** A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.

**OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

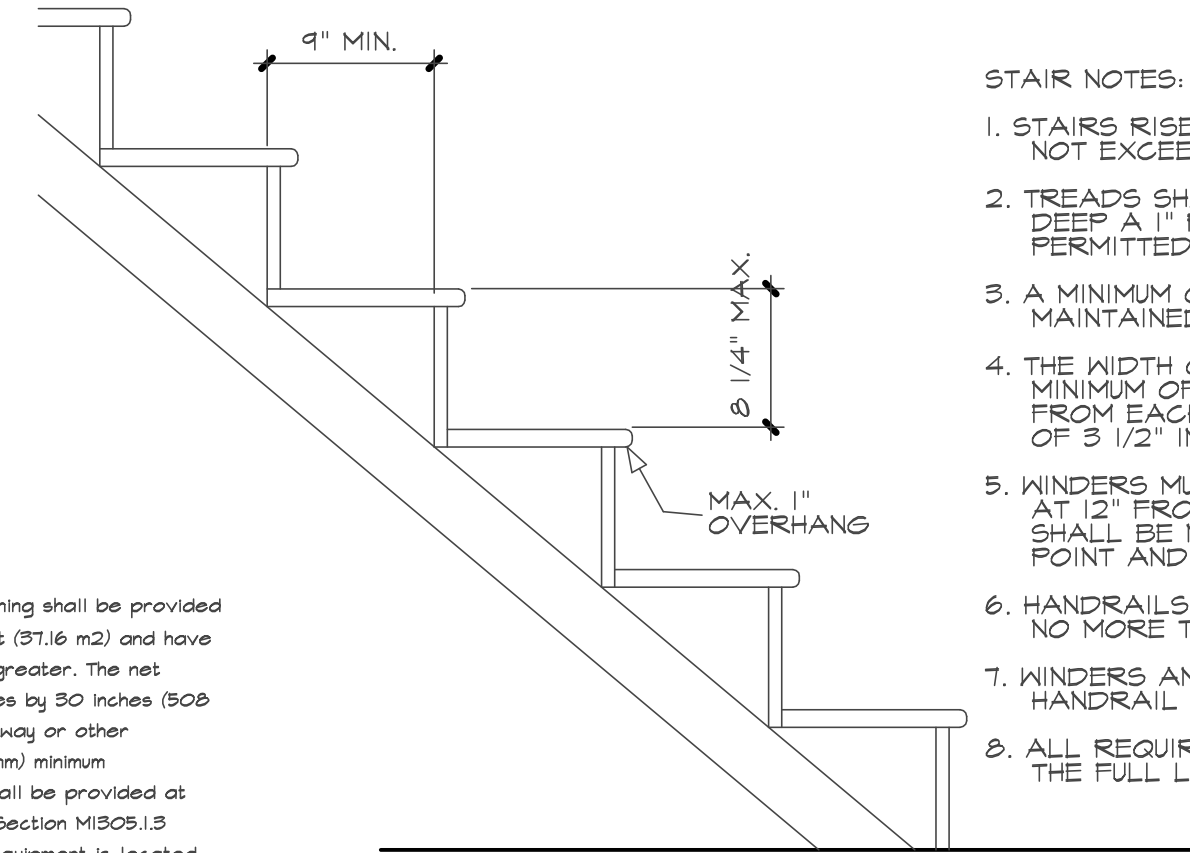
**DUCT PENETRATIONS.** Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

**OTHER PENETRATIONS.** Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

**ATTIC ACCESS**

SECTION R307  
R307.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m<sup>2</sup>) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:  
1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc., are not required to have access.  
2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

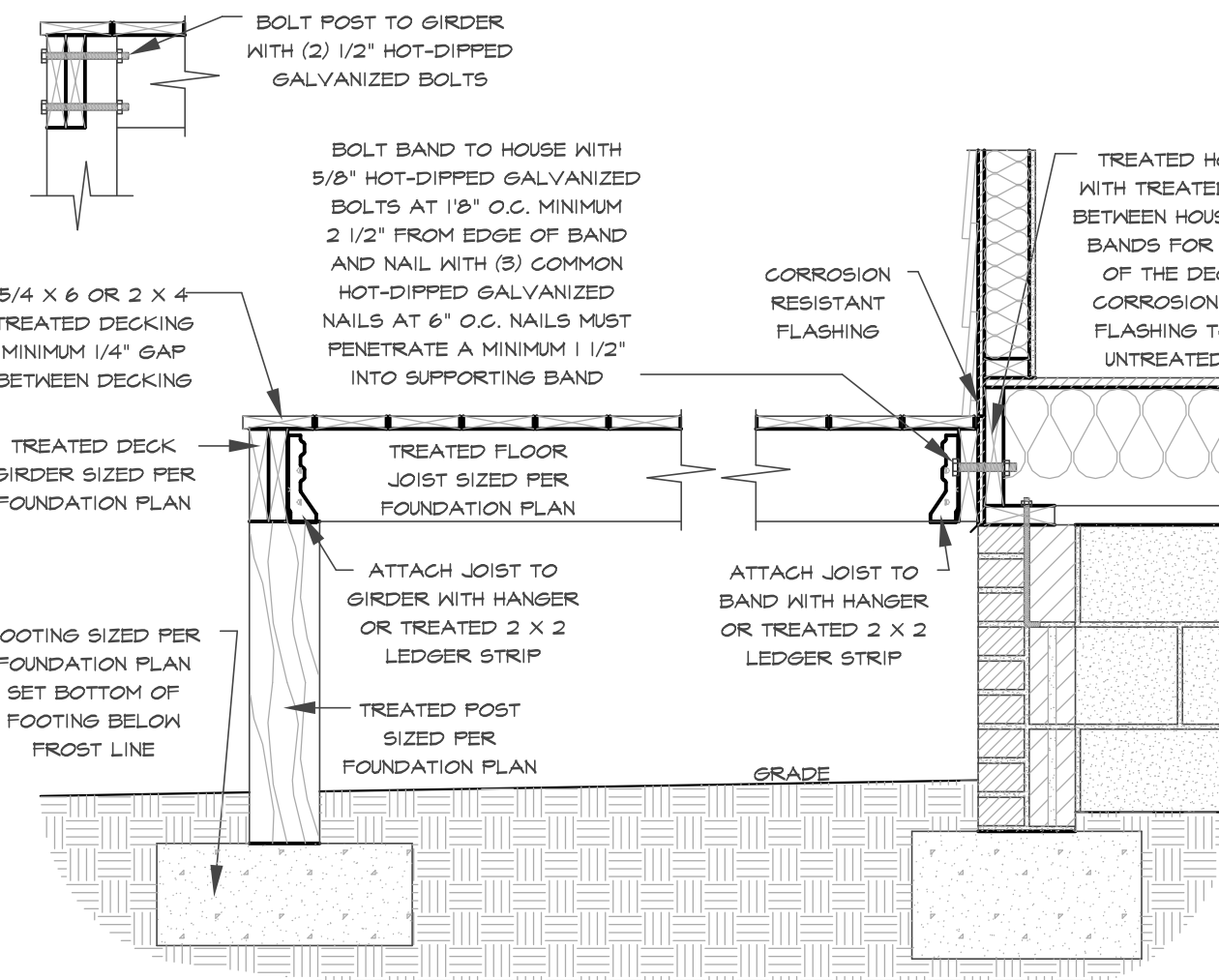


**STAIR NOTES:**

1. STAIRS RISERS MUST BE UNIFORM AND NOT EXCEED 8 1/4".
2. TREADS SHALL NOT BE LESS THAN 10" DEEP A 1" PROJECTION OVER RISER IS PERMITTED.
3. A MINIMUM OF 6'8" HEADROOM MUST BE MAINTAINED AT ALL PLACES ON STAIR.
4. THE WIDTH OF THE STAIR SHALL BE A MINIMUM OF 3'0". HANDRAIL MAY PROJECT FROM EACH SIDE OF STAIR A DISTANCE OF 3 1/2" INTO THE REQUIRED WIDTH.
5. WINDERS MUST BE A MINIMUM OF 4" IN WIDTH AT 12" FROM THE NARROWEST SIDE. TREAD SHALL BE NO NARROWER THAN 4" AT ANY POINT AND AVERAGE NO LESS THAN 9 INCHES.
6. HANDRAILS SHALL BE NO LESS THAN 34" AND NO MORE THAN 38" ABOVE TREAD NOSING.
7. WINDERS AND SPIRAL STAIRS SHALL HAVE THE HANDRAIL LOCATED ON THE OUTSIDE RADIUS.
8. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS.

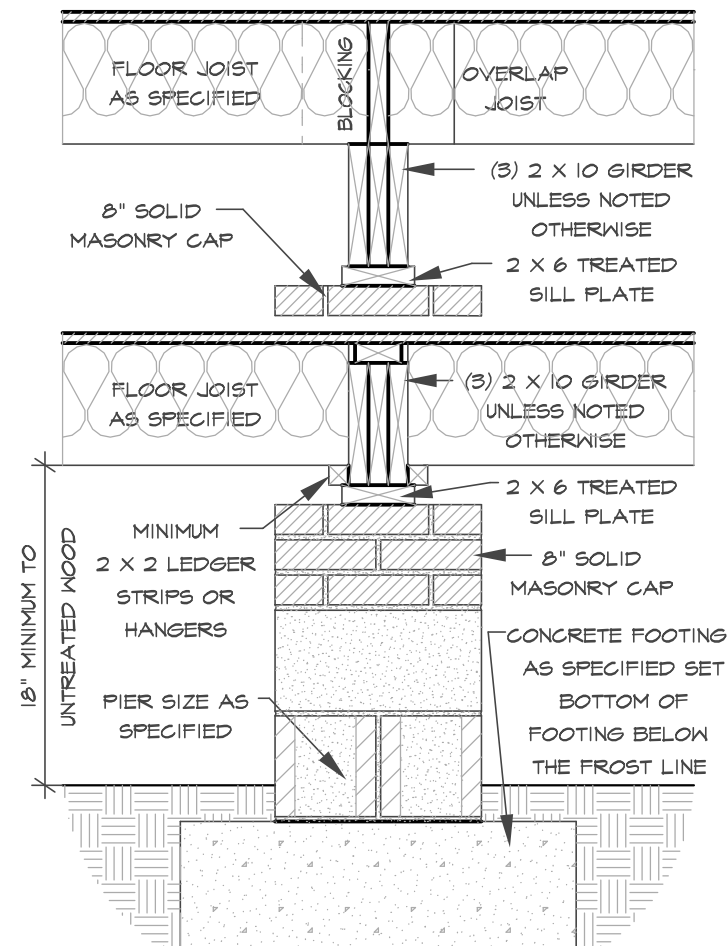
**STAIR DETAIL**

NO SCALE



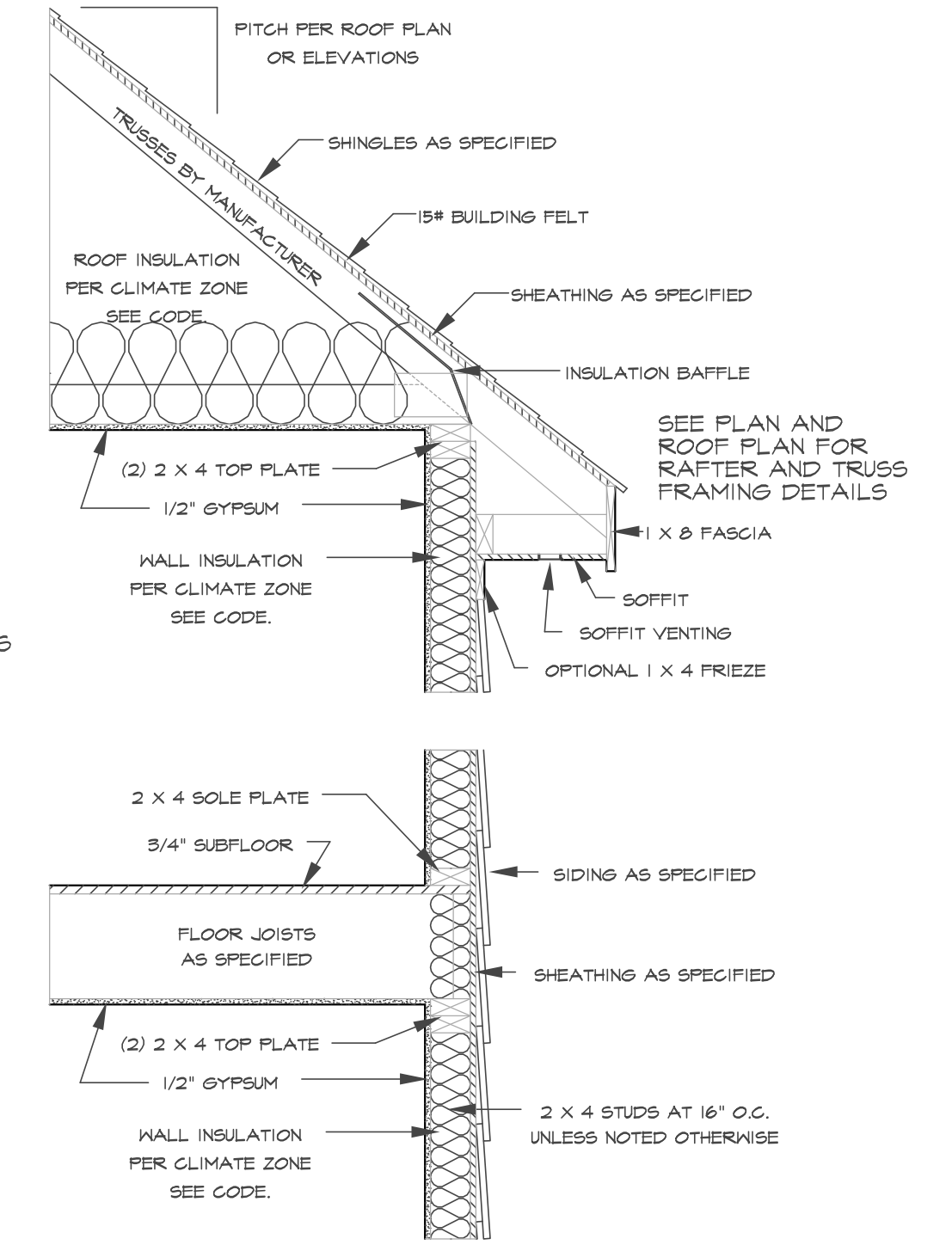
**DECK ATTACHMENT DETAIL TO FRAMED WALL**

SCALE 3/4" = 1'-0"



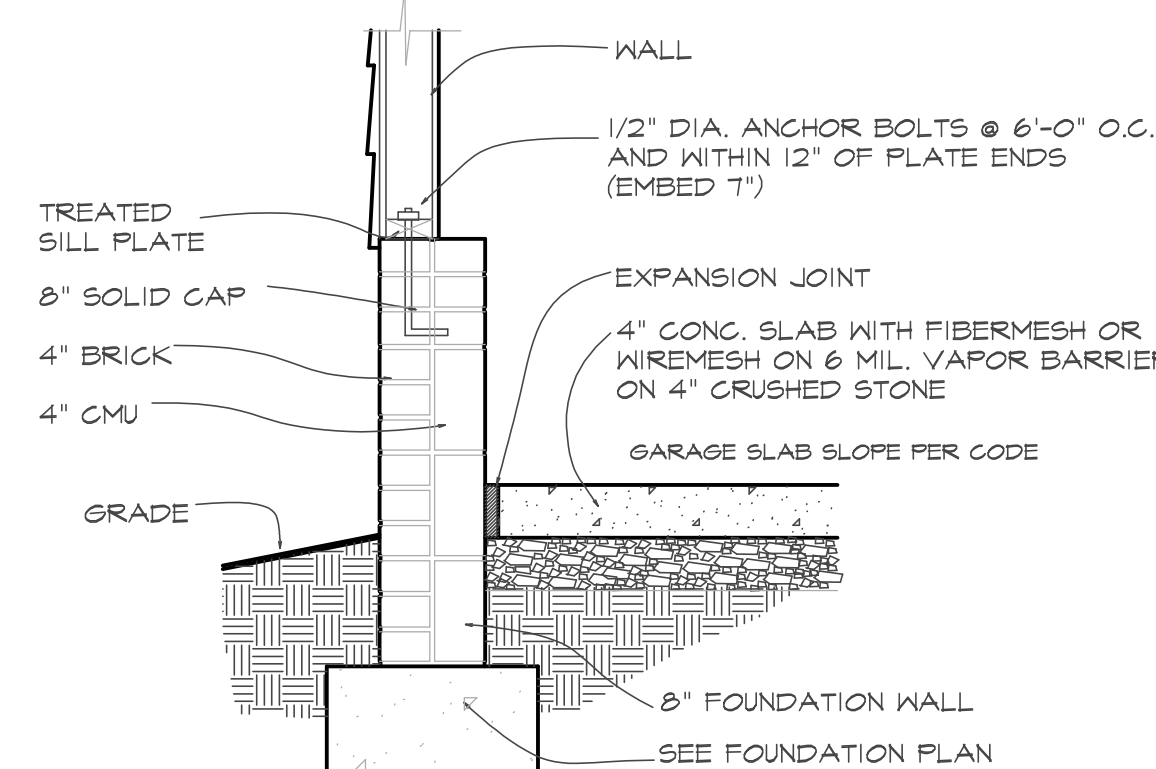
**DROPPED/ FLUSH PIER**

SCALE 3/4" = 1'-0"

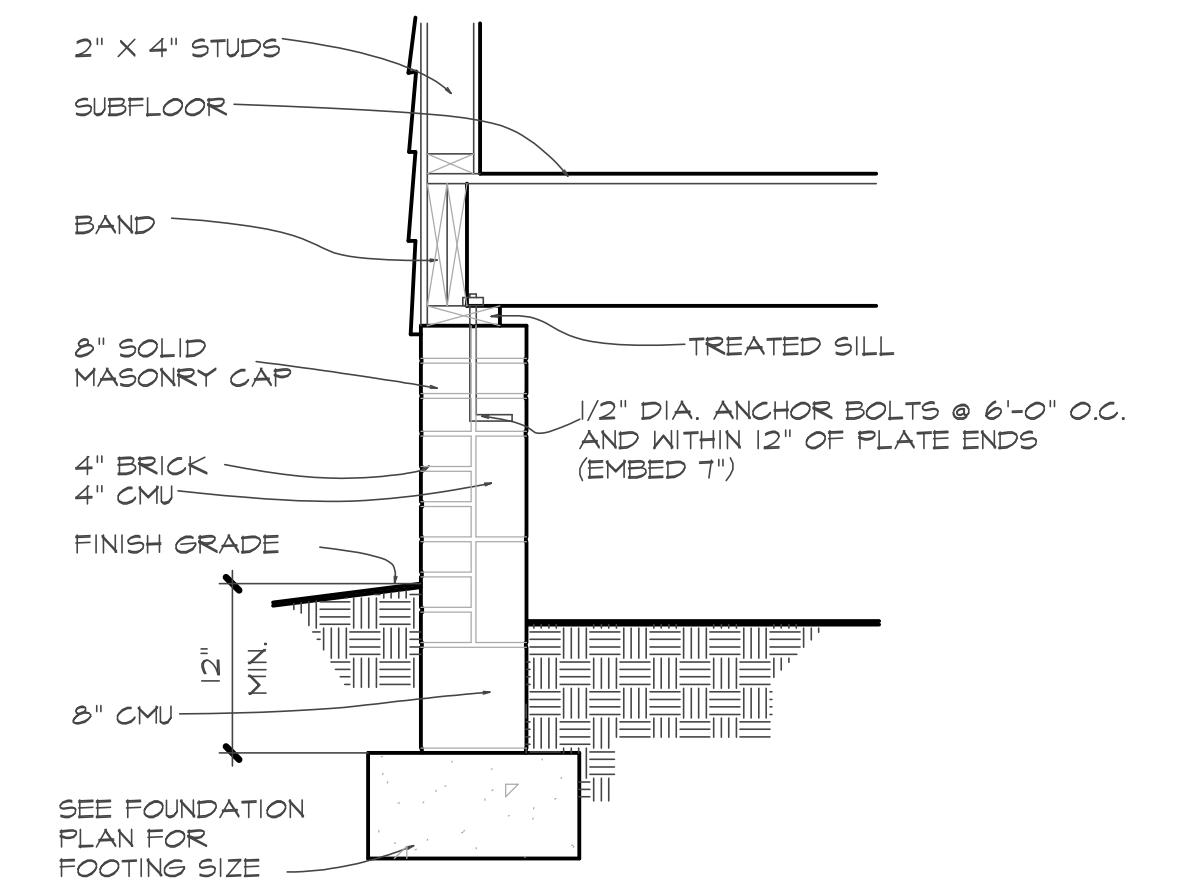


**TYPICAL WALL SECTION**

SCALE 3/4" = 1'-0"



**SECTION AT GARAGE SLAB**



**SECTION AT CRAWL**

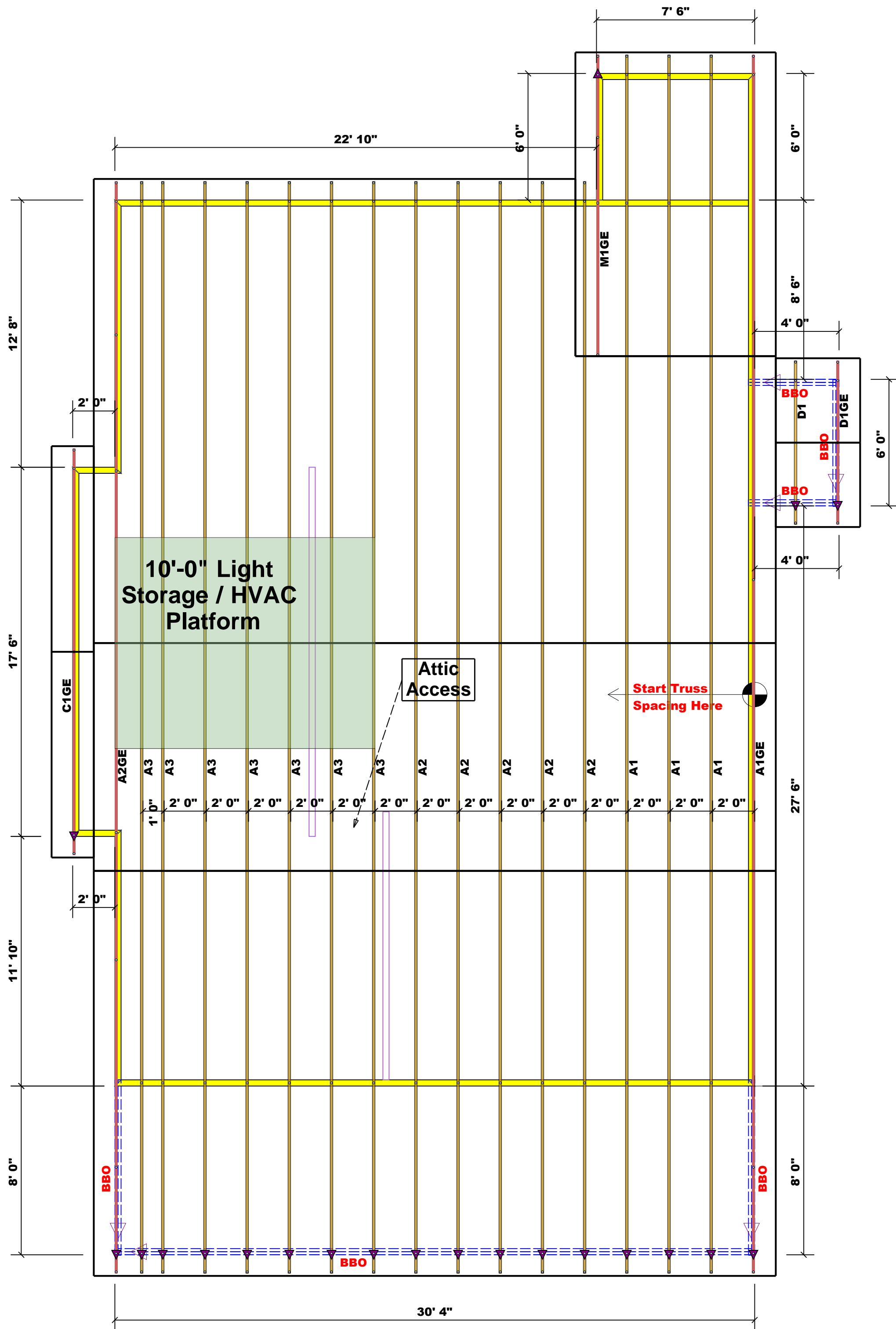
**TABLE R602.1.2 INSULATION AND PENETRATION REQUIREMENTS BY COMPONENT<sup>a</sup>**

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT U-FACTOR <sup>b</sup>	CEILING U-FACTOR <sup>b</sup>	FRAME WALL R-VALUE	WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB U-FACTOR & DEPTH	CRAWL SPACE WALL U-FACTOR	
3	0.35	0.55	0.30	38 or 30 <sup>c</sup>	15 or 15-25 <sup>d</sup>	5/13 or 5/10 <sup>e</sup>	19	5/19	0	5/13
4	0.35	0.55	0.30	38 or 30 <sup>c</sup>	15 or 15-25 <sup>d</sup>	5/13 or 5/10 <sup>e</sup>	19	10/15	10	10/12
5	0.35	0.55	NR	38 or 30 <sup>c</sup>	12 <sup>f</sup> or 13-15 <sup>d</sup>	13/17 or 13/12.5 <sup>e</sup>	30 <sup>g</sup>	10/12	10	10/19

**TABLE R602.1.4 EQUIVALENT U-FACTORS<sup>a</sup>**

CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT U-FACTOR <sup>b</sup>	CEILING U-FACTOR <sup>b</sup>	FRAME WALL U-FACTOR	WALL U-FACTOR	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR
3	0.35	0.55	0.030	0.027	0.141	0.047	0.099 <sup>f</sup>	0.136
4	0.35	0.55	0.030	0.027	0.141	0.047	0.055	0.085
5	0.35	0.55	0.030	0.061	0.482	0.033	0.055	0.085

a. No fenestration U-factors shall be obtained from measurement, calculation or an approved source.  
b. When more than half the fenestration is on the interior, the mean wall U-factors shall be a maximum of 0.027 in Climate Zone 3, 0.027 in Climate Zone 4 and 0.028 in Climate Zone 5.  
c. Basement wall U-factors of 0.040 in warm humid locations as defined by Figures R301.1 and Table R301.1.  
d. A maximum of 2% glass fenestration product assemblies, having a U-factor no greater than 0.25 and a SHGC no greater than 0.30 shall be permitted to be substituted for minimum code comparison fenestration product assemblies without penalty. When applying this rule, use the REScheck "3A Trade-off" conditions instead of alternative conditions set of the software. The applicable fenestration product shall be modeled as meeting the U-factor of 0.25 and the SHGC of 0.30, as applicable, per the fenestration product actual U-factor and actual SHGC shall be used in the common section of the software for documentation of application of this rule to the applicable product. Compliance for these substitution products shall be verified compared to the above substantial maximum U-value requirement and maximum SHGC requirement, as applicable.



▲ = Denotes Left End of Truss  
(Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.  
 ○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Estimation			
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	1965.04
Roof Decking	1st Floor	Roof Decking	68

### Truss Placement Plan

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

**LOAD CHART FOR JACK STUDS**

(BASED ON TABLES B502.5(1) & (2))  
 NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS

END REACTION (UP TO) (LBS)	SPACING (IN)	NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS
1700	2550	1
3400	5100	2
5100	7650	3
6800	10200	4
8500	12750	5
10200	15300	6
11900		
13600		
15300		

<b>BUILDER</b>	Weaver Homes, Inc.
<b>JOB NAME</b>	Lot 3 Holly Place
<b>PLAN</b>	Bella IV
<b>SEAL DATE</b>	Seal Date
<b>QUOTE #</b>	Quote #
<b>JOB #</b>	J1023-6032

<b>CITY / CO.</b>	Sanford / Harnett
<b>ADDRESS</b>	4065 Barbecue Church Rd.
<b>MODEL</b>	Roof
<b>DATE REV.</b>	11/02/23
<b>DRAWN BY</b>	Lenny Norris
<b>SALES REP.</b>	Lenny Norris

**THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.**  
 These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSH-B1 and BCSH-B3 provided with the truss delivery package or online @ sbcindustry.com

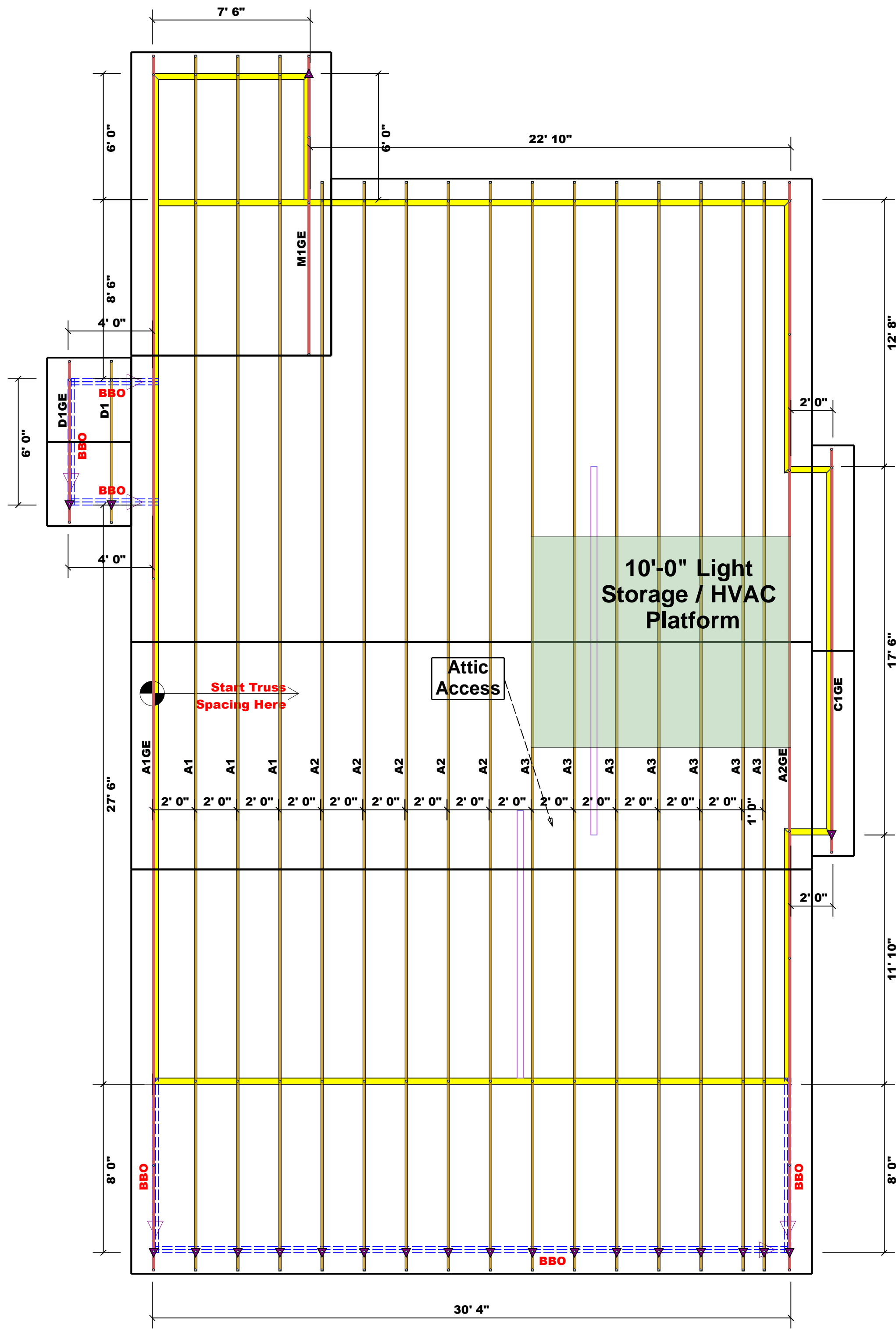
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: Lenny Norris  
 Lenny Norris

**comtech**

**ROOF & FLOOR TRUSSES & BEAMS**

Reilly Road Industrial Park  
 Fayetteville, N.C. 28309  
 Phone: (910) 864-8787  
 Fax: (910) 864-4444



▲ = Denotes Left End of Truss  
(Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.  
 ○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Estimation			
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	1965.04
Roof Decking	1st Floor	Roof Decking	68

### Truss Placement Plan

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

**LOAD CHART FOR JACK STUDS**

(BASED ON TABLES B502.5(1) & (2))  
 NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS

END REACTION (UP TO) (LBS)	END REACTION (UP TO) (LBS)	END REACTION (UP TO) (LBS)
1700	2550	3400
3400	5100	6800
5100	7650	10200
6800	10200	13600
8500	12750	17000
10200	15300	
11900		
13600		
15300		

<b>BUILDER</b>	Weaver Homes, Inc.
<b>JOB NAME</b>	Lot 3 Holly Place
<b>PLAN</b>	Bella IV
<b>SEAL DATE</b>	Seal Date
<b>QUOTE #</b>	Quote #
<b>JOB #</b>	J1023-6032

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