

**CREATIVE RESIDENTIAL
DESIGNS, LLC**
5000 NEIMAN COVE
RALEIGH, N.C. 27612
919.260.6393
www.creativeresidentialdesigns.com

PROJECT:

**LOT 1
MORGAN
FARM**

**STEPHENSON
BUILDERS
INC.**
1187 NORTH RALEIGH STREET
ANGIER, NC 27501

DATE:

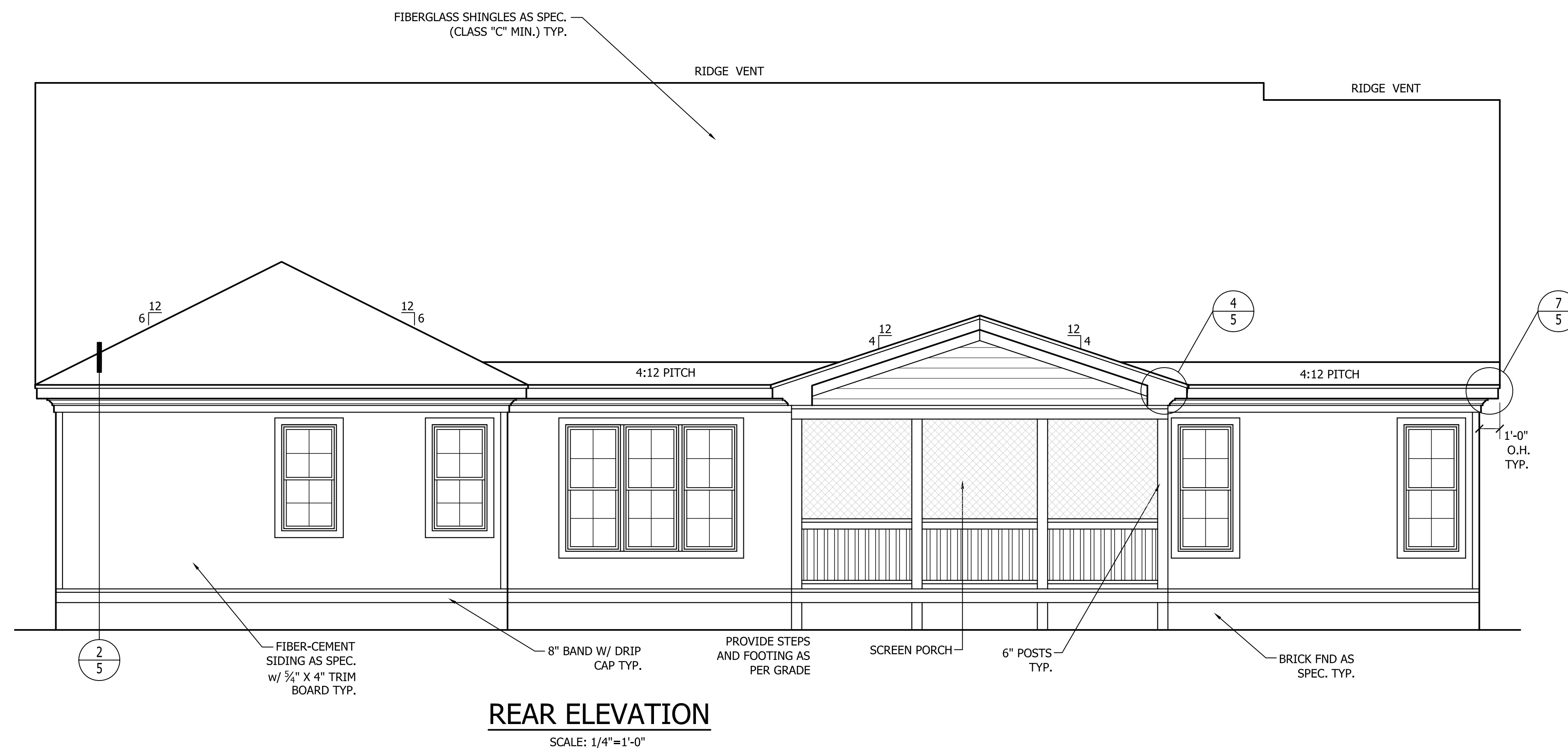
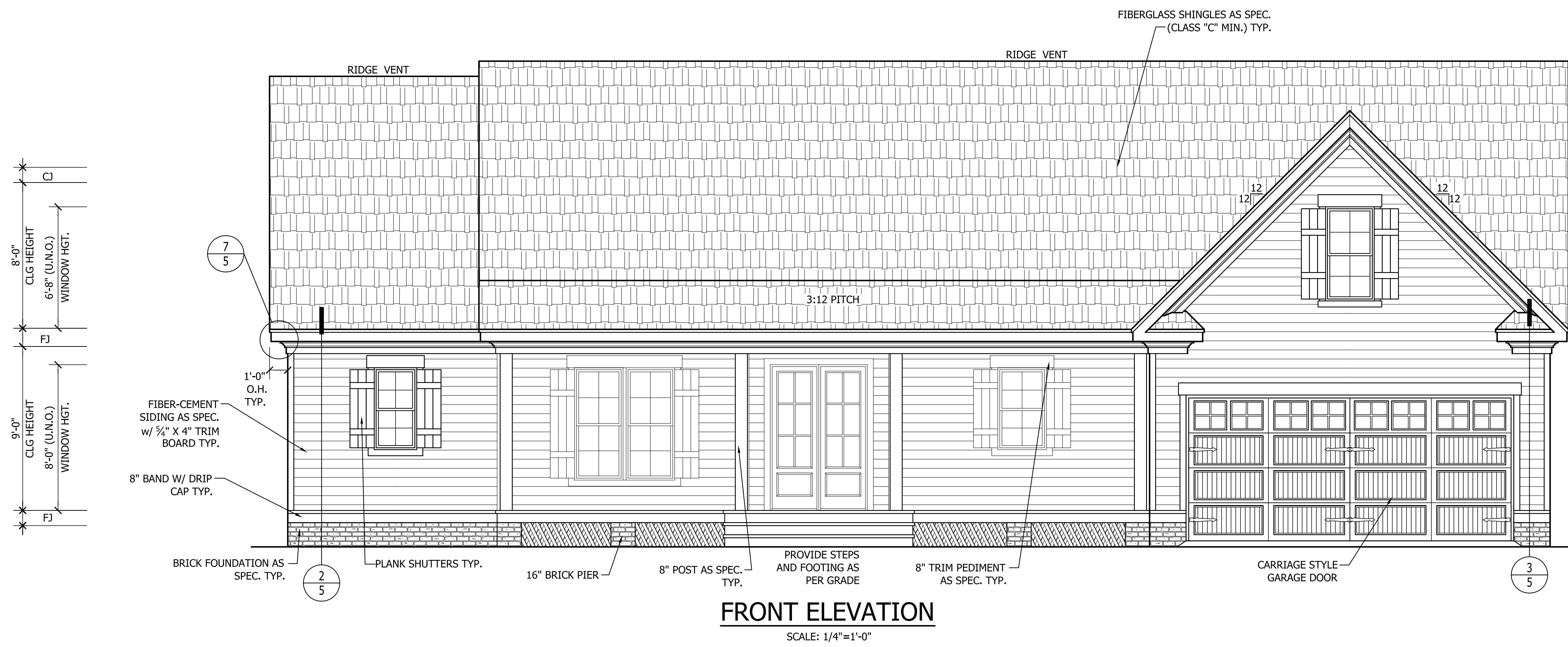
01-12-21 BCR

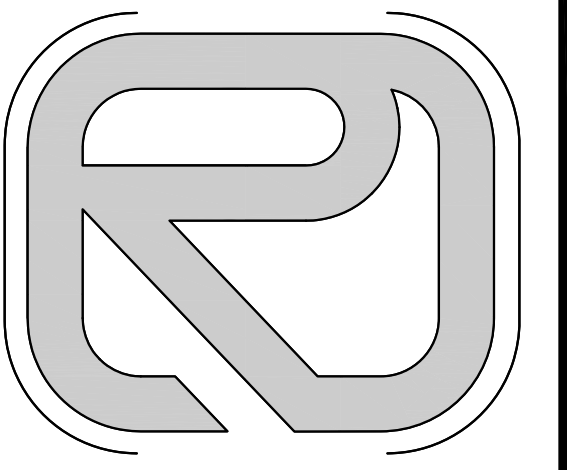
REVISIONS:

SHEET NO.

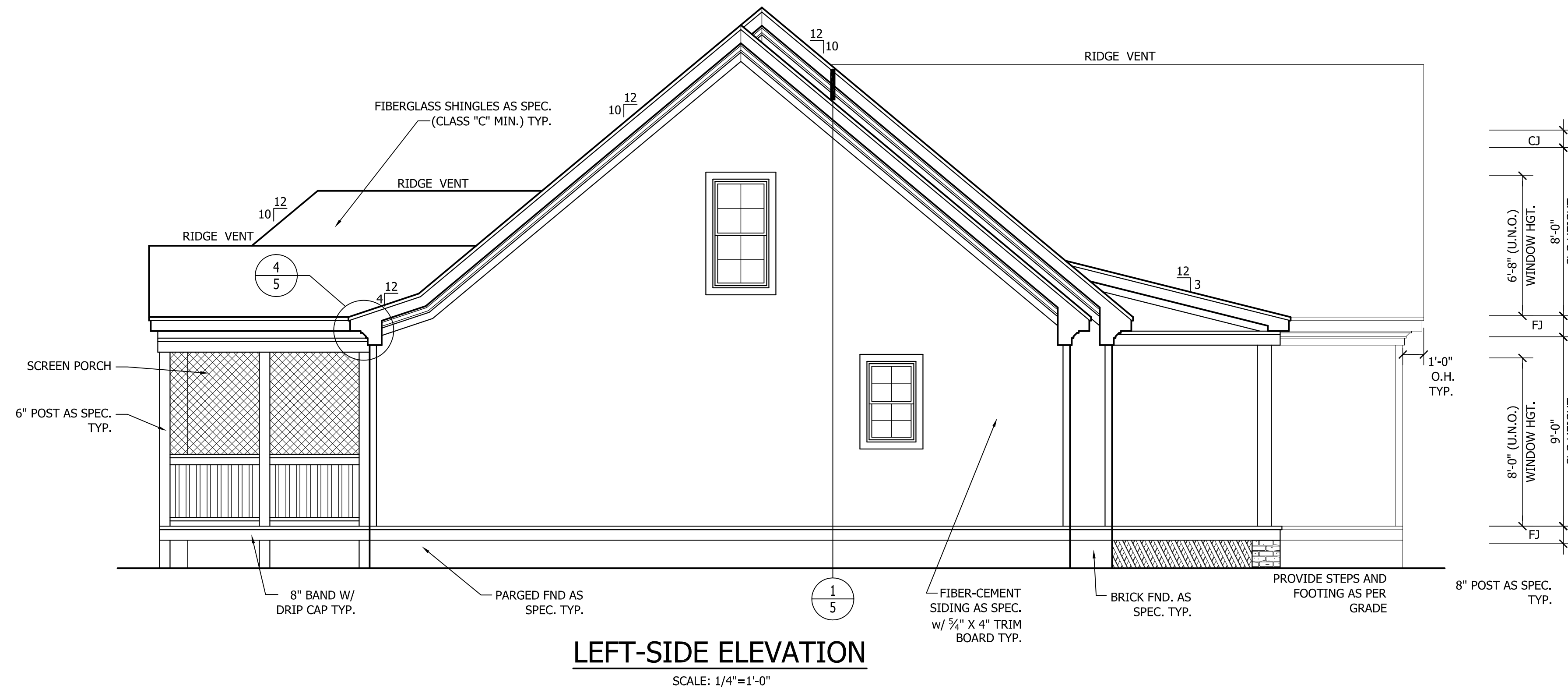
1
OF **5**

PLANS DESIGNED UNDER 2018 NORTH CAROLINA RESIDENTIAL CODE.
SEE ROOF PLAN FOR KNEEWALL HEIGHTS AND LOCATIONS.



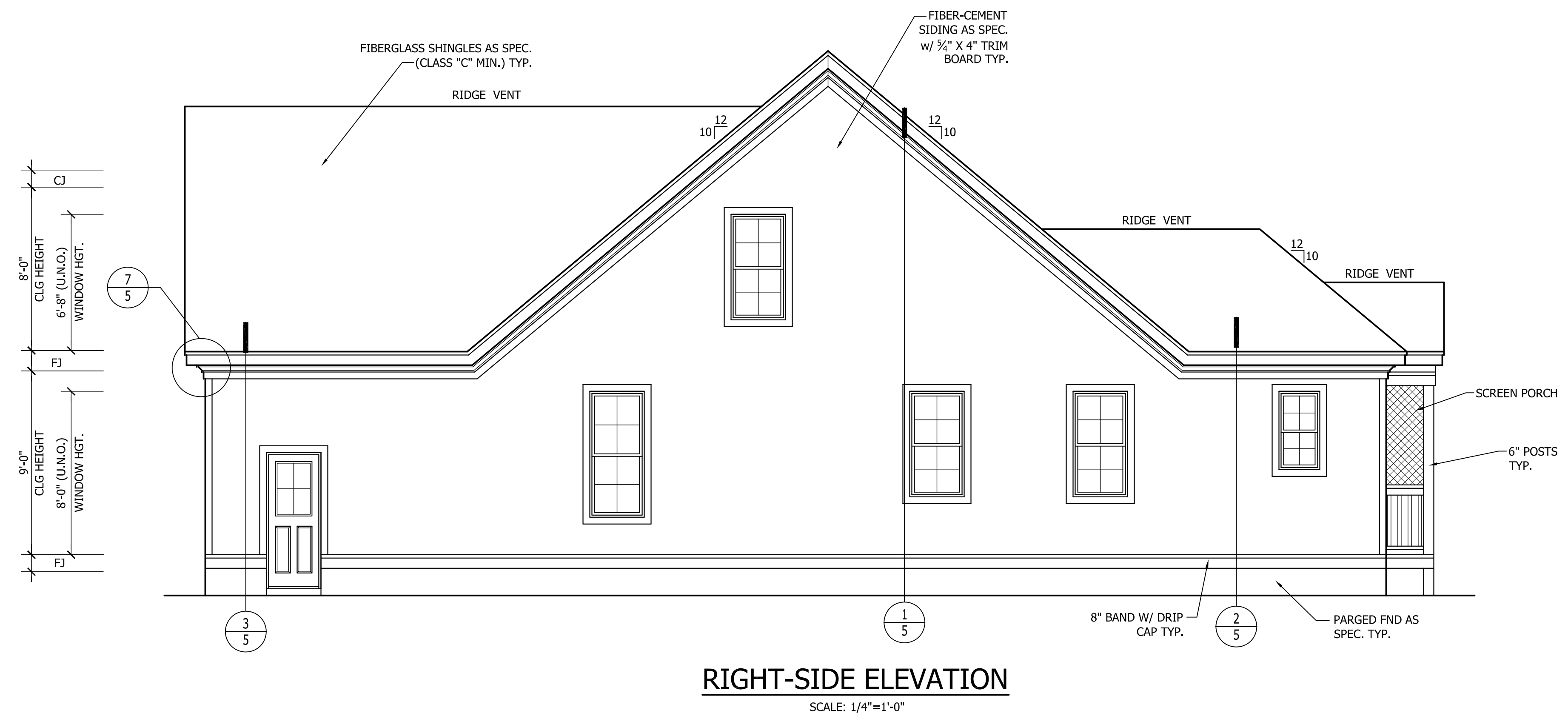


PLANS DESIGNED UNDER 2018 NORTH CAROLINA RESIDENTIAL CODE.
SEE ROOF PLAN FOR KNEEWALL HEIGHTS AND LOCATIONS.



LEFT-SIDE ELEVATION

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



RIGHT-SIDE ELEVATION

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

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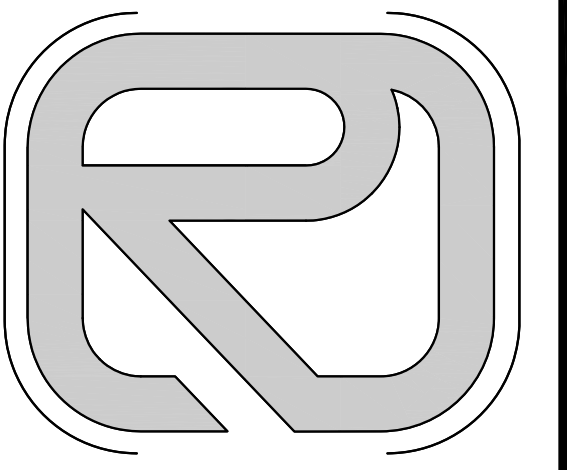
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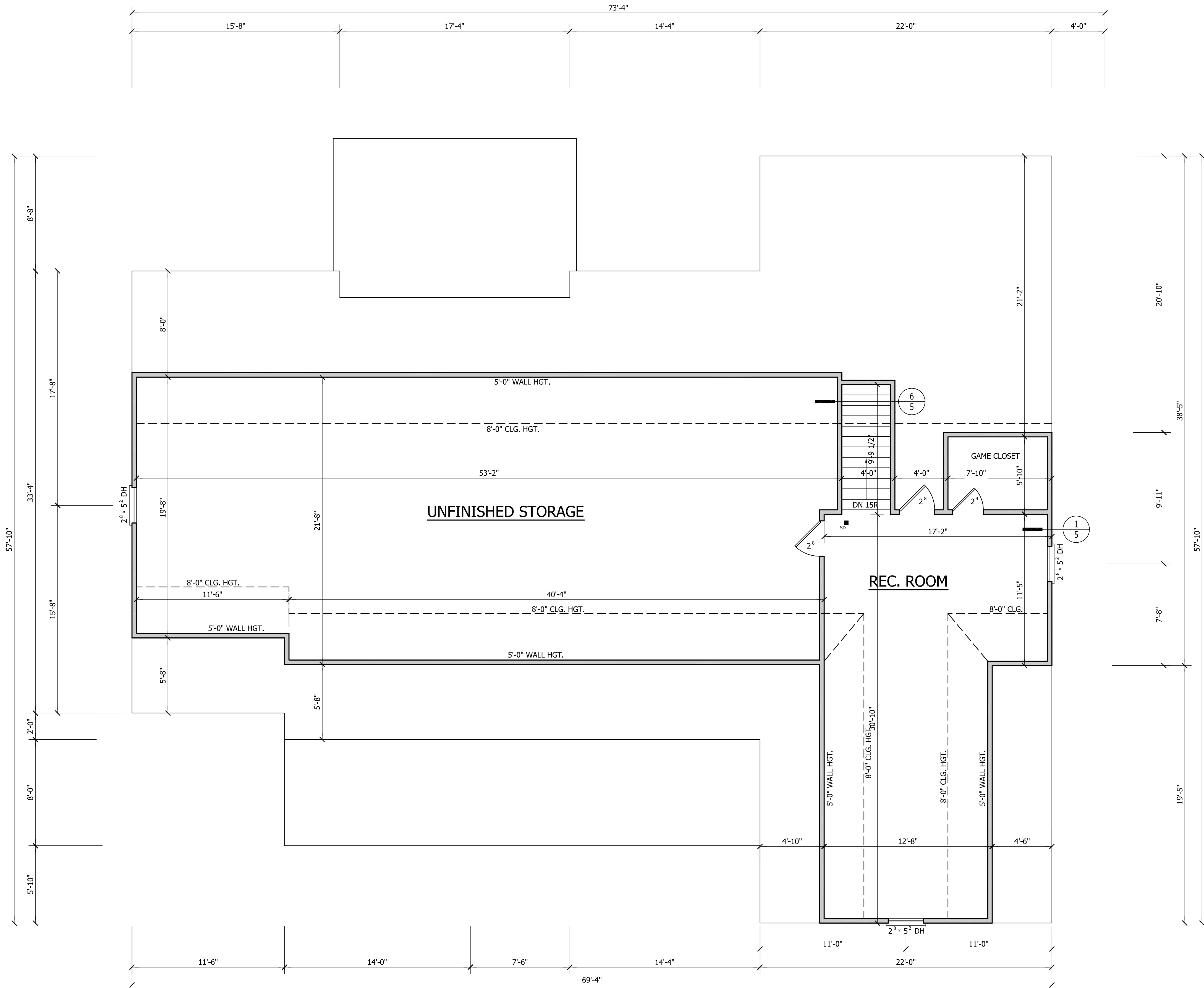
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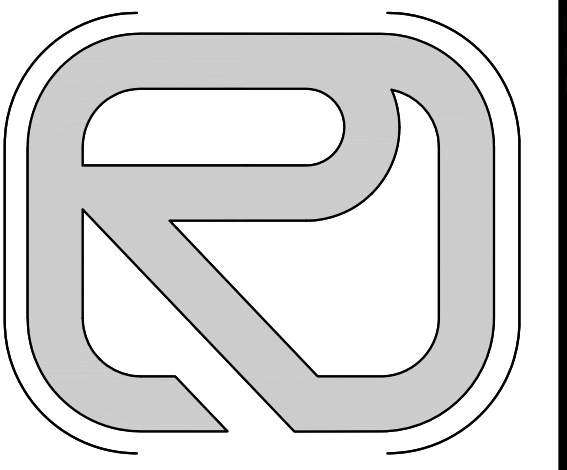
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SECOND FLOOR PLAN
8'-0" CEILING HGT.
SET WINDOWS @ 6'-8" A.F.F.
SCALE= 1/4" = 1'-0"

- NOTES:**
- PLANS DESIGNED UNDER 2018 NORTH CAROLINA RESIDENTIAL CODE.
 - ALL ANGLED WALLS ARE 45 ° UNLESS NOTED OTHERWISE.
 - FINISH DOOR AND WINDOW HEADS SHALL ALIGN EXCEPT AS NOTED.
 - ALL MATERIALS AND COMPONENTS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - GRADES SHOWN ARE ILLUSTRATIVE. NATURAL GRADE WILL DETERMINE FINISH GRADE.
 - FLOOR PLAN NOTATIONS GOVERN OVER ELEVATION SCALE.
 - VERIFY ALL WINDOW SIZES, RADIUS, AND DETAILS WITH CHOSEN MANUFACTURE.
 - ALL HABITABLE ROOMS SHALL MEET LIGHT/VENTILATION & EGRESS REQUIREMENTS.
 - TEMPERED GLASS TO BE USED AT ALL SAFETY REQUIRED LOCATIONS.
 - ALL WINDOW GLAZINGS TO HAVE 0.35 U-FACTOR MIN.
 - ALL CABINET DESIGNS/LAYOUTS TO BE VERIFIED WITH SHOP DRAWINGS FROM CABINET MANUFACTURER.
 - PER 2018 N.C. RESIDENTIAL BUILDING CODE TABLE R302.6: SHEETROCK ON GARAGE CEILING TO BE 5/8" TYPE "X".



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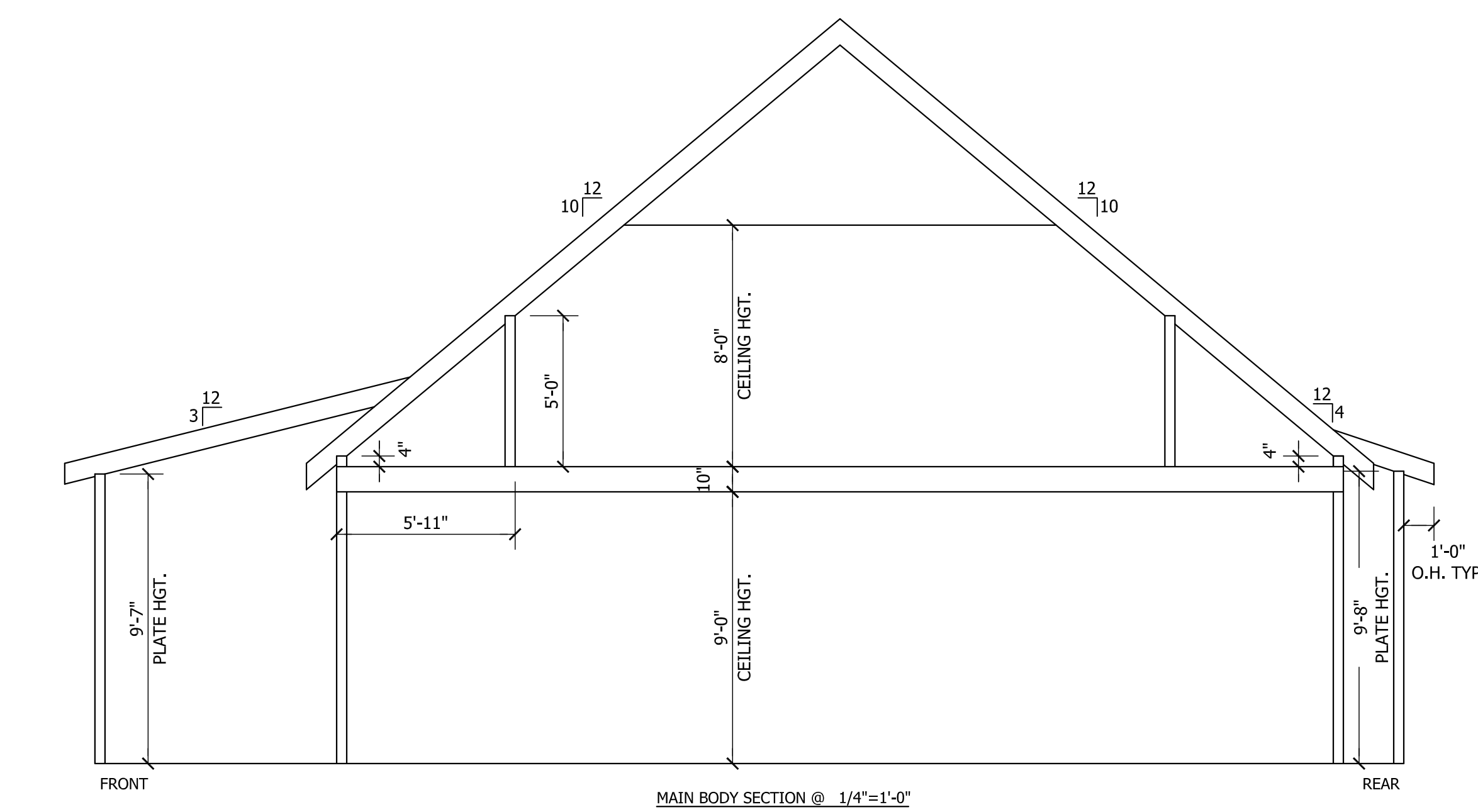
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MAIN BODY SECTION @ 1/4"=1'-0"

AREA CALCULATIONS

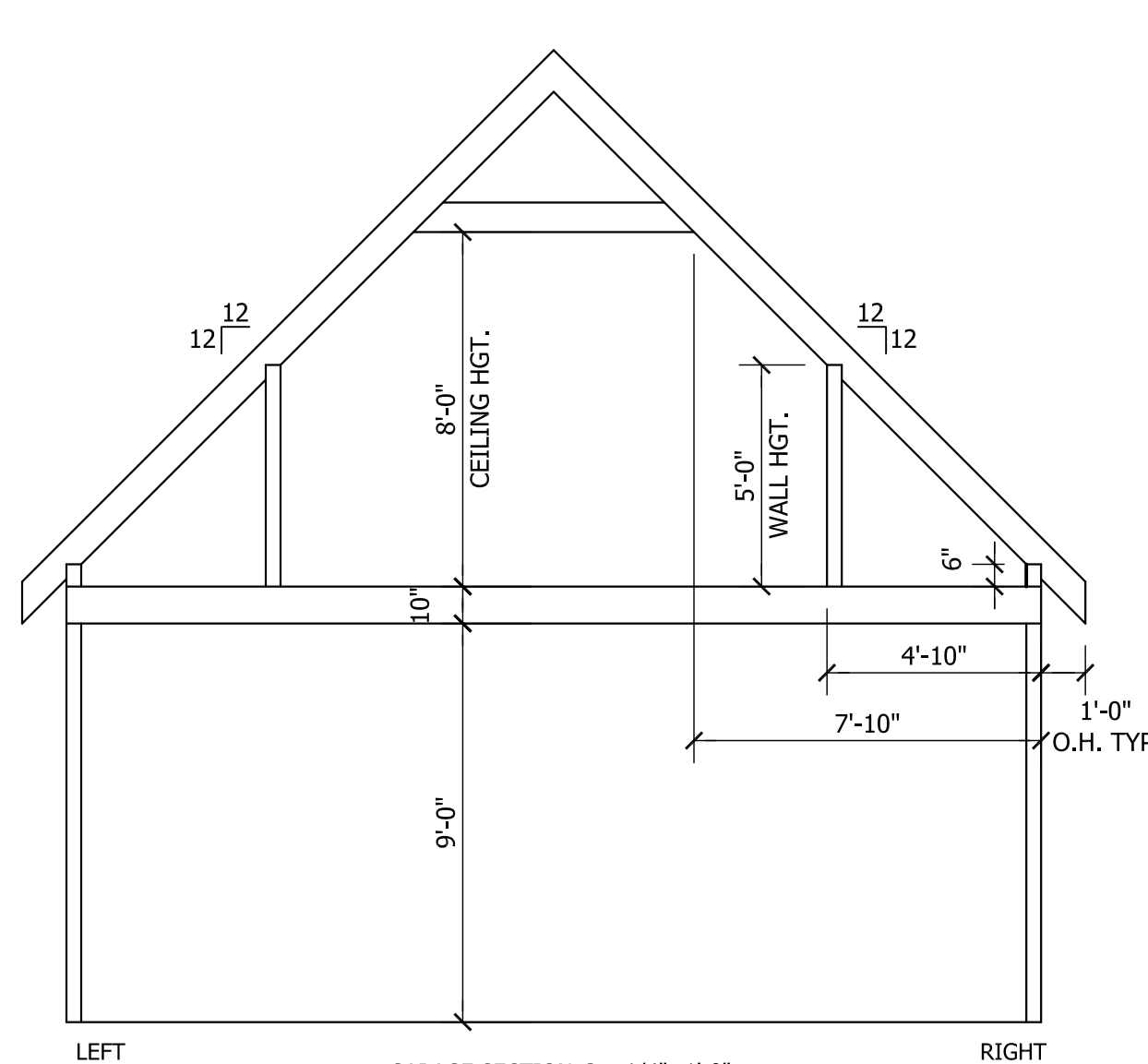
HEATED (SQ. FT.)	UNHEATED (SQ. FT.)	UNFINISHED (SQ. FT.)
BASEMENT: N/A	GARAGE: 563	BASEMENT: N/A
1ST FLOOR: 2309	SCREEN: 218	REC ROOM: N/A
2ND FLOOR: 512	PORCH: 302	ATTIC: N/A
	STOOP: N/A	STORAGE: 1131
	BRICK: N/A	OVERALL DIMENSION
		WIDTH: 69'-4"
		DEPTH: 57'-10"
TOTAL: 2821 (HEATED)	TOTAL: 1083 (UNHEATED)	

PLANS DESIGNED TO THE 2018 NORTH CAROLINA RESIDENTIAL CODE HOUSE DESIGNED FOR 115 MPH 3 SECOND GUST, EXPOSURE B ANCHOR BOLTS TO BE NO MORE THAN 6" O.C. AND WITHIN 12" OF ALL PLATES SPLICES ANCHOR BOLTS SHALL BE MIN. 1/2" DIAMETER & SHALL EXTEND A MINIMUM 7" INTO MASONRY OR CONCRETE

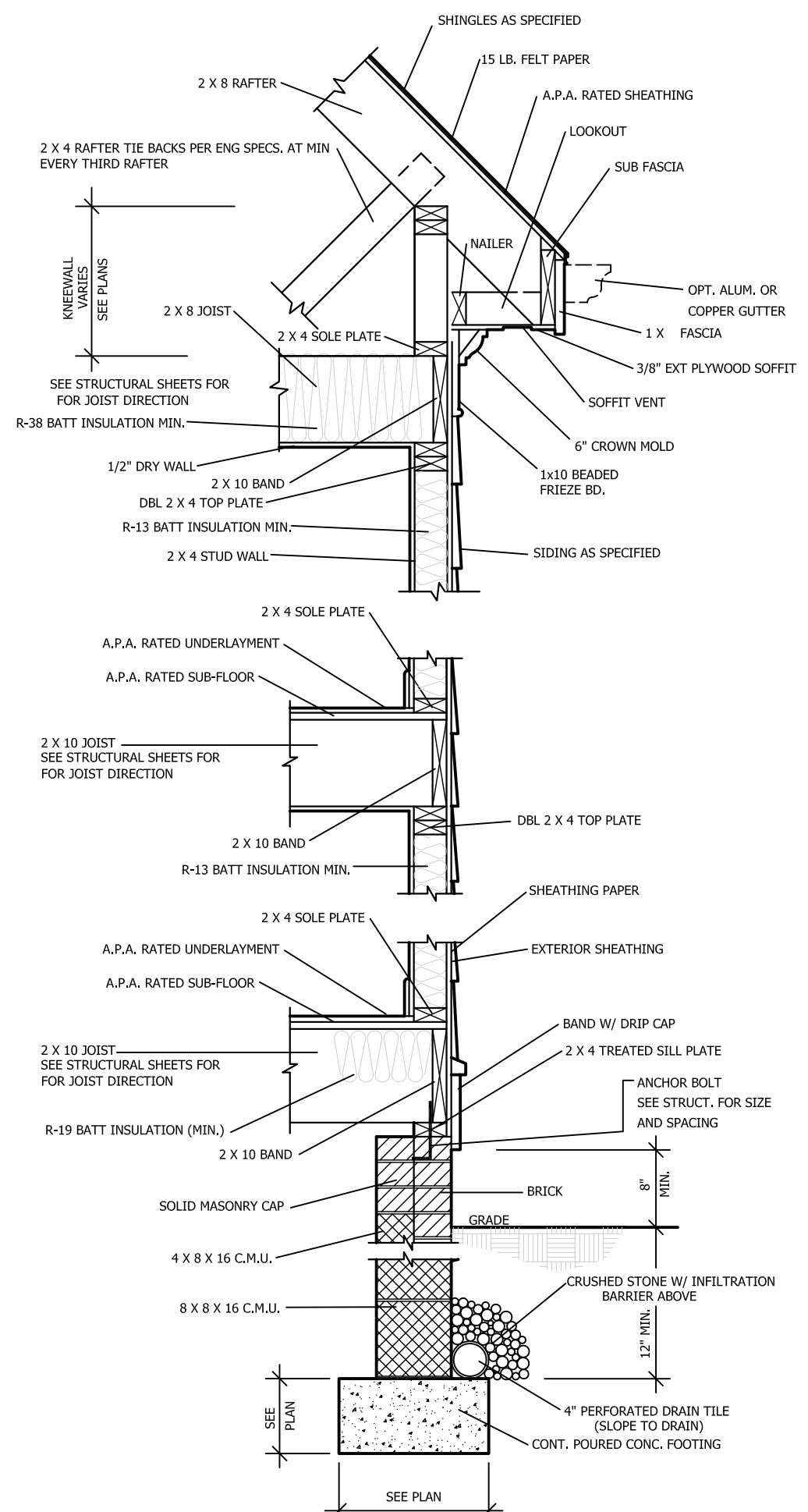
MEAN ROOF HEIGHT = $< 30'-0"$

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS

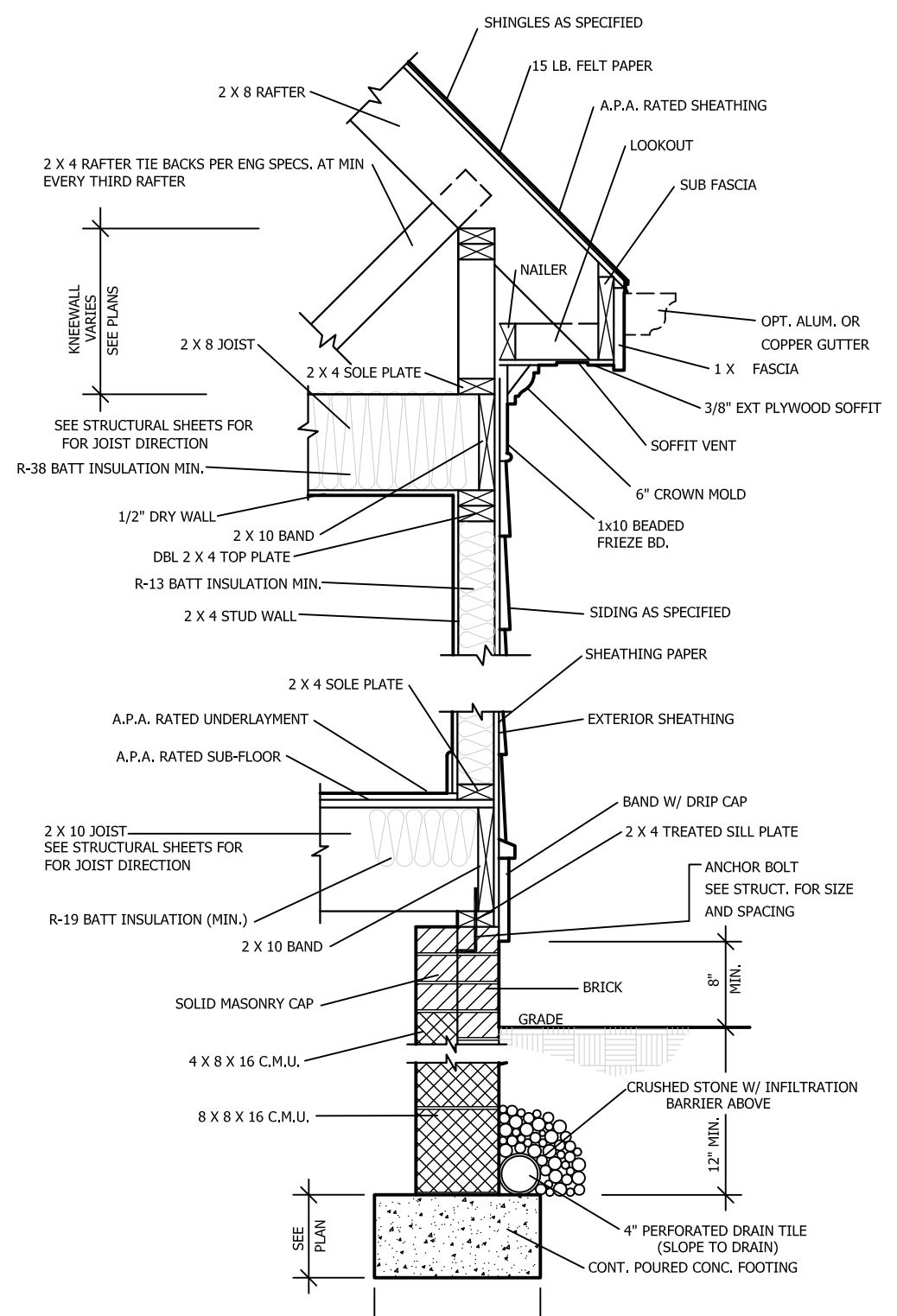
MEAN ROOF HEIGHT	UP TO 30'	30'-1" - 35'	35'-1" - 40'	40'-1" - 45'
ZONE 1	16.5, -18.0	17.3, -18.9	18.0, -19.6	18.5, -20.2
ZONE 2	16.5, -21.0	17.3, -22.1	18.0, -22.9	18.5, -23.5
ZONE 3	16.5, -21.0	17.3, -22.1	18.0, -22.9	18.5, -23.5
ZONE 4	18.0, -19.5	18.9, -20.5	19.6, -21.3	20.2, -21.8
ZONE 5	18.0, -24.1	18.9, -25.3	19.6, -26.3	20.2, -27.0



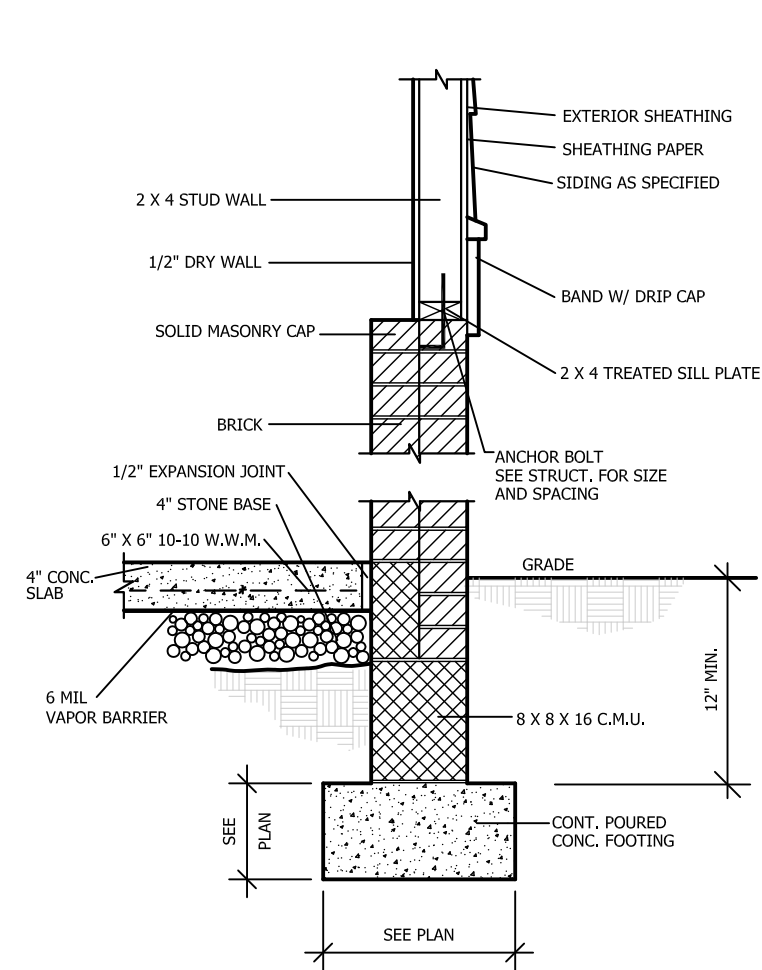
GARAGE SECTION @ 1/4"=1'-0"



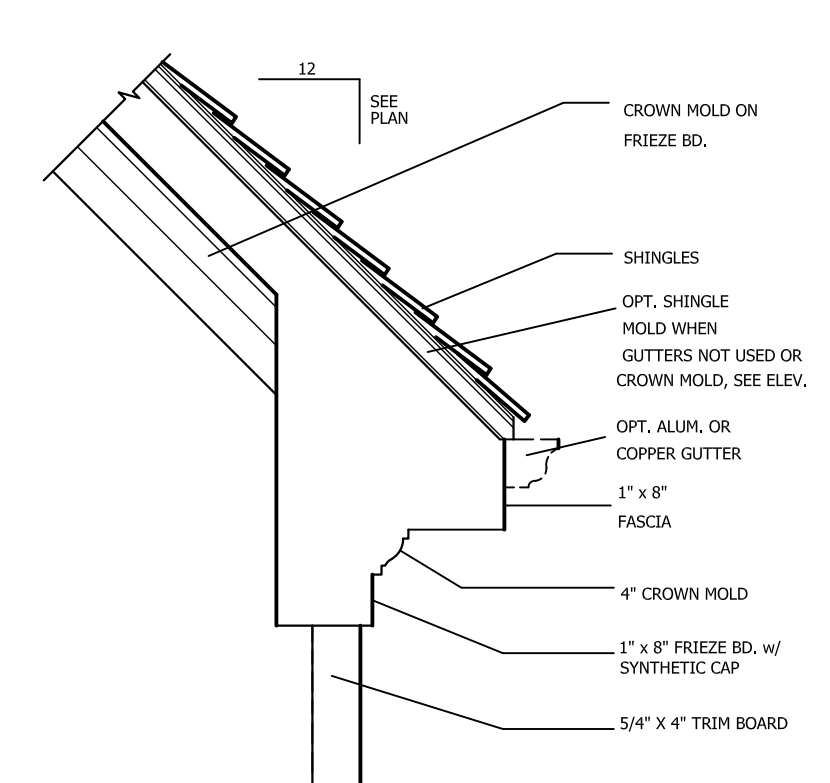
1 TWO STORY WALL W/ SIDING @ 3/4"=1'-0" DESIGNED FOR 115 MPH WINDS



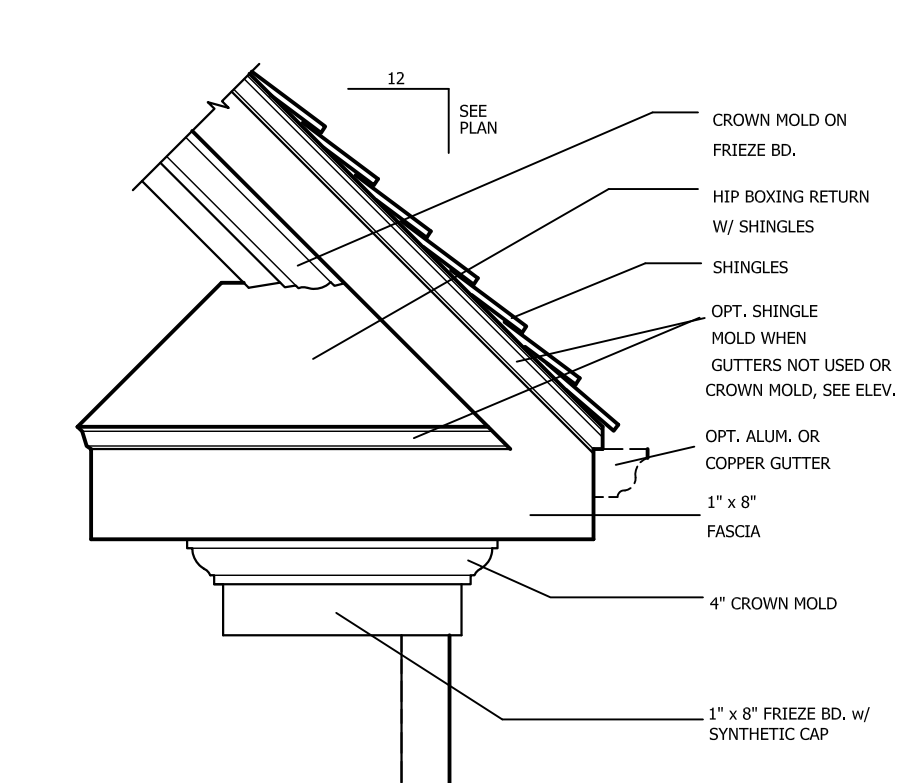
2 ONE STORY WALL W/ SIDING @ 3/4"=1'-0" DESIGNED FOR 115 MPH WINDS



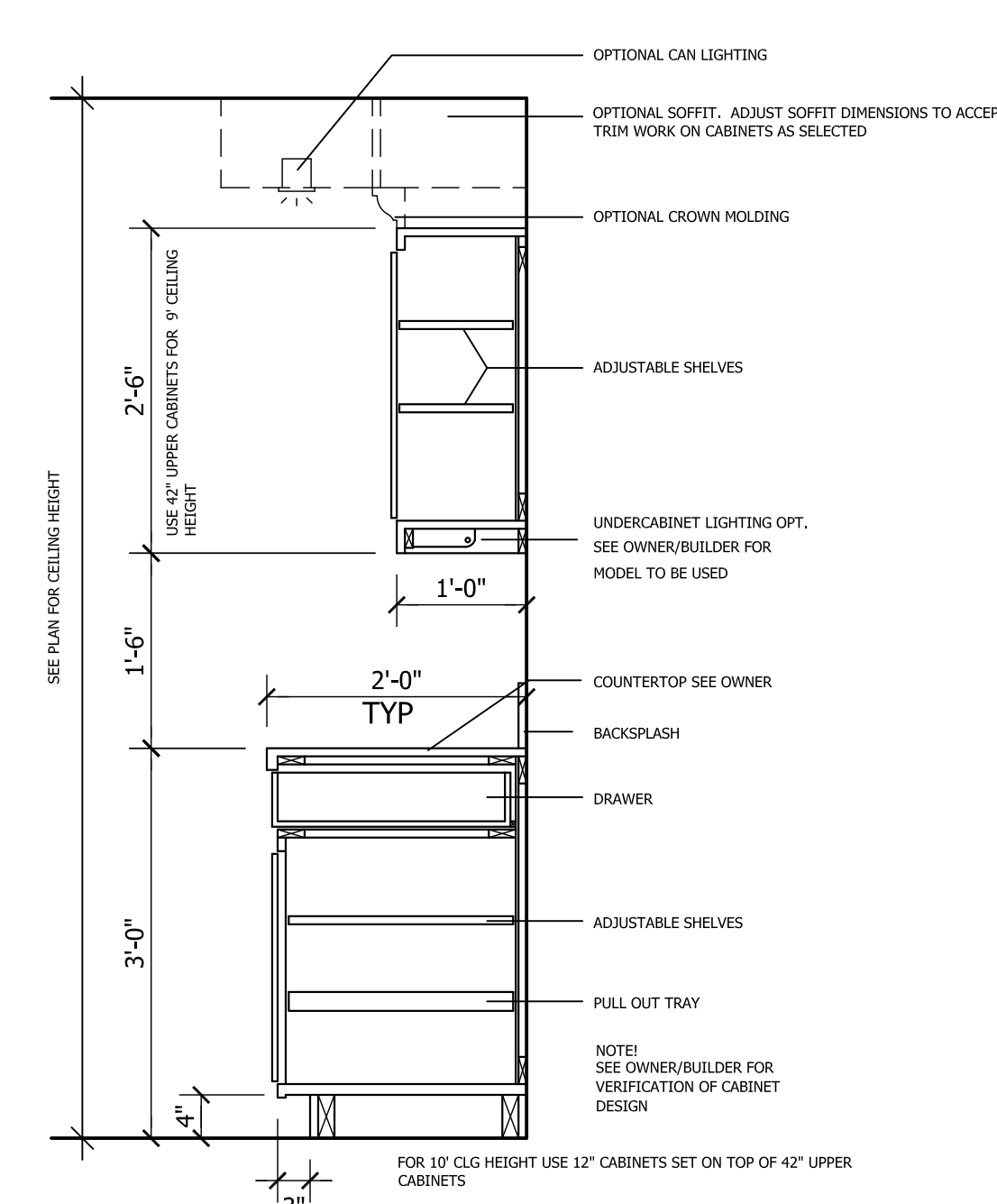
3 GARAGE WALL W/ SIDING @ 3/4"=1'-0" DESIGNED FOR 115 MPH WINDS



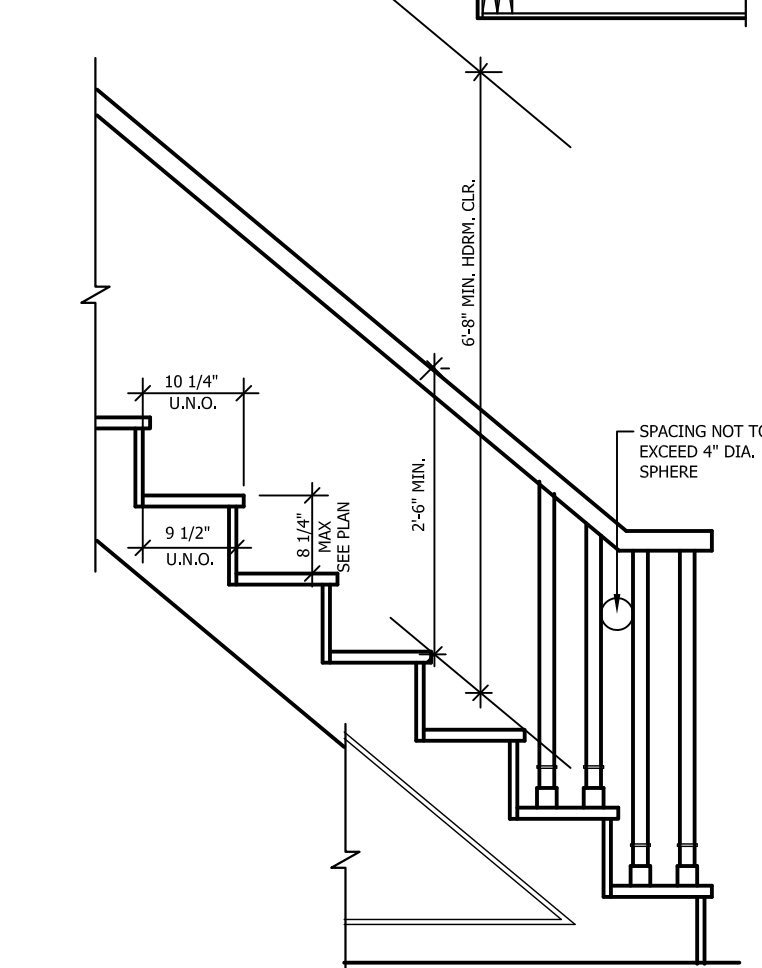
4 DOG EAR RETURN DETAIL @ 3/4"=1'-0"



7 HIP BOXING RETURN DETAIL @ 3/4"=1'-0"



5 TYP. KITCHEN CABINET SECTION @ 3/4"=1'-0"



6 TYP. STAIR DETAIL @ 3/4"=1'-0"

FOUNDATION VENT CALCS.

$\frac{2429 \text{ SQ. FT.}}{150}$	= 16.19	SQ. FT. VENT REQ'D.
$\frac{16.19 \text{ SQ. FT.}}{.56}$	= 29	VENTS TO BE PROVIDED

NOTE: FIGURE BASED ON SECTION R-409 OF THE 2018 IRC.
NOTE: FND VENT SPECS BASED ON PUSH/PULL POLYPROPYLENE FND. VENT THAT ALLOWS 72 SQ. IN. OF NET FREE AREA PER VENT.

- WHERE CONTINUOUS OPERATED MECHANICAL VENTILATION IS PROVIDED AT A RATE OF 1.0 CFM FOR EACH 50 SQ. FT. OF CRAWL SPACE.
- THE CRAWL SPACE IS SUPPLIED WITH CONDITIONED AIR AND THE PERIMETER WALLS ARE INSULATED IN ACCORDANCE WITH SECTION R409 OF THE 2018 IRC.
- BUILDER/OWNER TO VERIFY VENT SIZE AND REQUIREMENTS PRIOR TO CONSTRUCTION. SEE SECTION R409 OF THE 2018 IRC.

ROOF VENTILATING REQUIREMENTS

$\frac{3383 \text{ SQ.FT.}}{150}$	= 22.55	SQ. FT. OF TOTAL ROOF VENTILATION REQ'D
$280'-4"$ (LINEAR FT. OF SOFFIT) X $.035$ (NET FREE AREA PER FT.)	= 9.81	SQ. FT. OF AVAILABLE SOFFIT VENT
$22.55 - 9.81$	= 12.74	SQ.FT. REMAINING REQ'D ROOF VENTILATION
$\frac{12.74 \text{ SQ.FT.}}{.125}$ (NET FREE AREA PER FT.)	= 101.92	LINEAR FT. OF RIDGE VENT REQ'D

NOTE: FIGURE BASED ON SECTION R-806 OF THE 2018 IRC.
NOTE: - SOFFIT VENT SPECS BASED ON HARDISOFFIT PANELS THAT ALLOWS 5 SQ. IN. OF NET FREE AREA PER LINEAR FT.
- RIDGE VENT SPECS BASED ON VENTURIVENT PLUS THAT ALLOWS 18 SQ. IN. OF NET FREE AREA PER LINEAR FT.

TOTAL NET FREE VENTILATING AREA IS PERMITTED TO BE REDUCED TO 1 TO 300:

- PROVIDED AT LEAST 50% AND NOT MORE THAN 80% OF THE REQ'D VENTILATING AREA IS PROVIDED BY VENTILATORS. REFERENCE R806.2 OF THE 2018 IRC. FOR PROPER LOCATION.
- WHEN AN APPROVED VAPOR BARRIER HAVING A TRANSMISSION RATE NOT EXCEEDING 1 PERM IS INSTALLED ON THE WARM SIDE OF THE CEILING