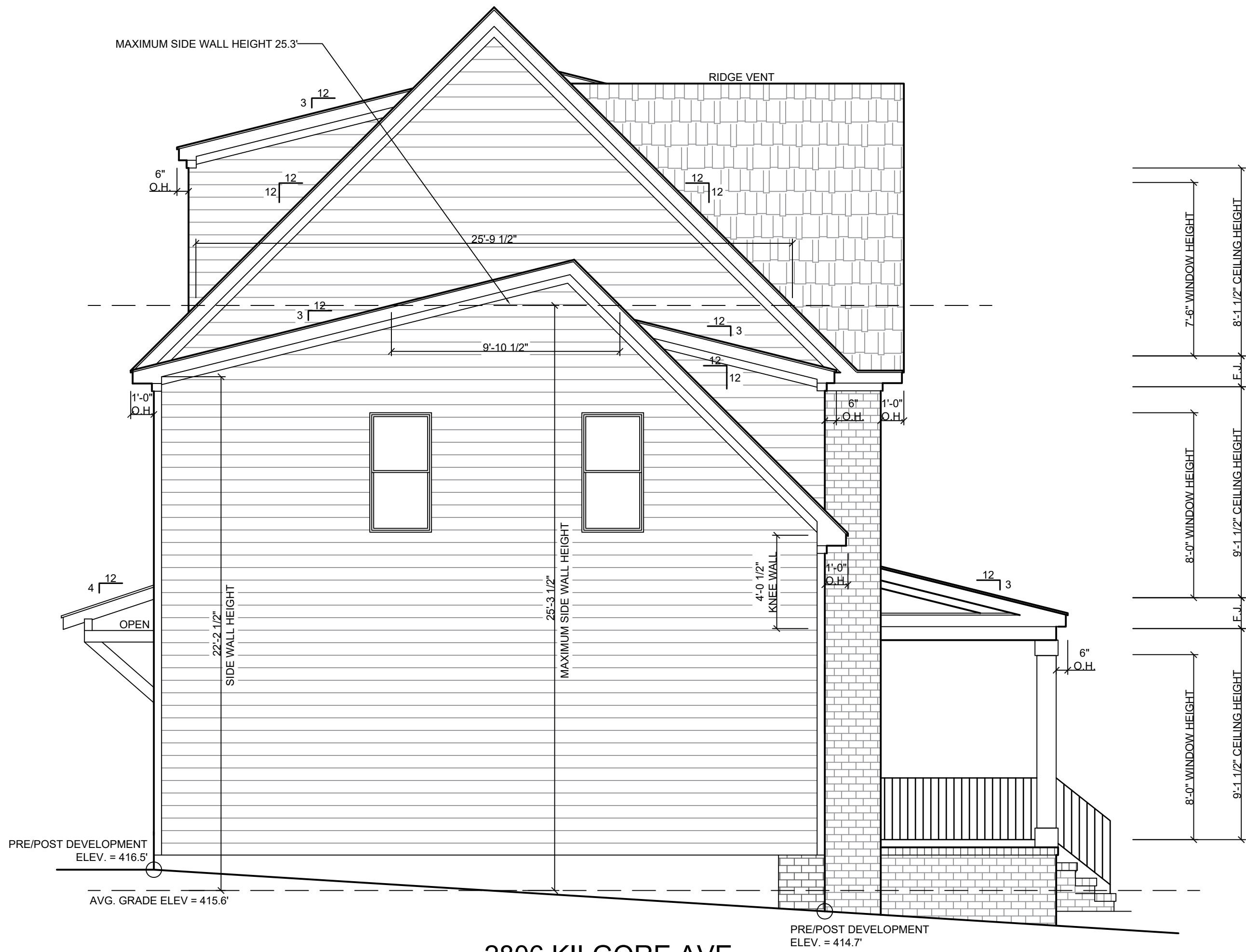




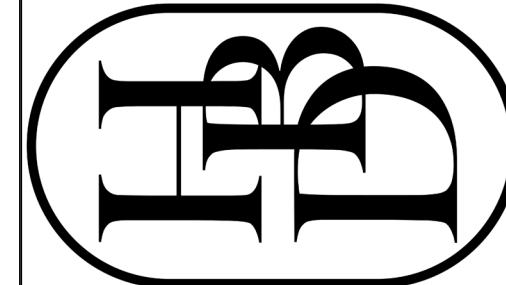
2806 KILGORE AVE
FRONT ELEVATION
SCALE = $\frac{1}{4}"$ = 1'-0"



2806 KILGORE AVE
LEFT ELEVATION
SCALE = $\frac{1}{4}"$ = 1'-0"



2806 KILGORE AVE
REAR ELEVATION
SCALE = $\frac{1}{4}"$ = 1'-0"



HOMES BY DICKERSON
2841 PLAZA PLACE, SUITE 210
RALEIGH, NC 27612
919.847.4447

ORIGINAL CONCEPT
BY
JOHN SMYTH

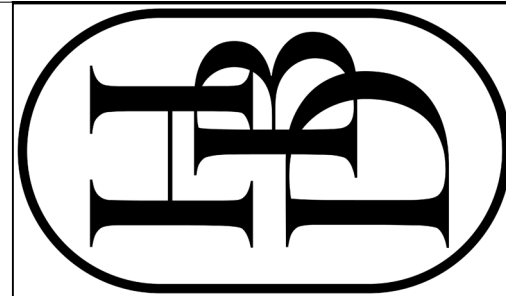
2806 KILGORE AVE

DRAWN BY **CM**
7/18/2024
REVISION DATE
6/18/2026

SHEET NO.

1

ELEVATIONS



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2806 KILGORE AVE

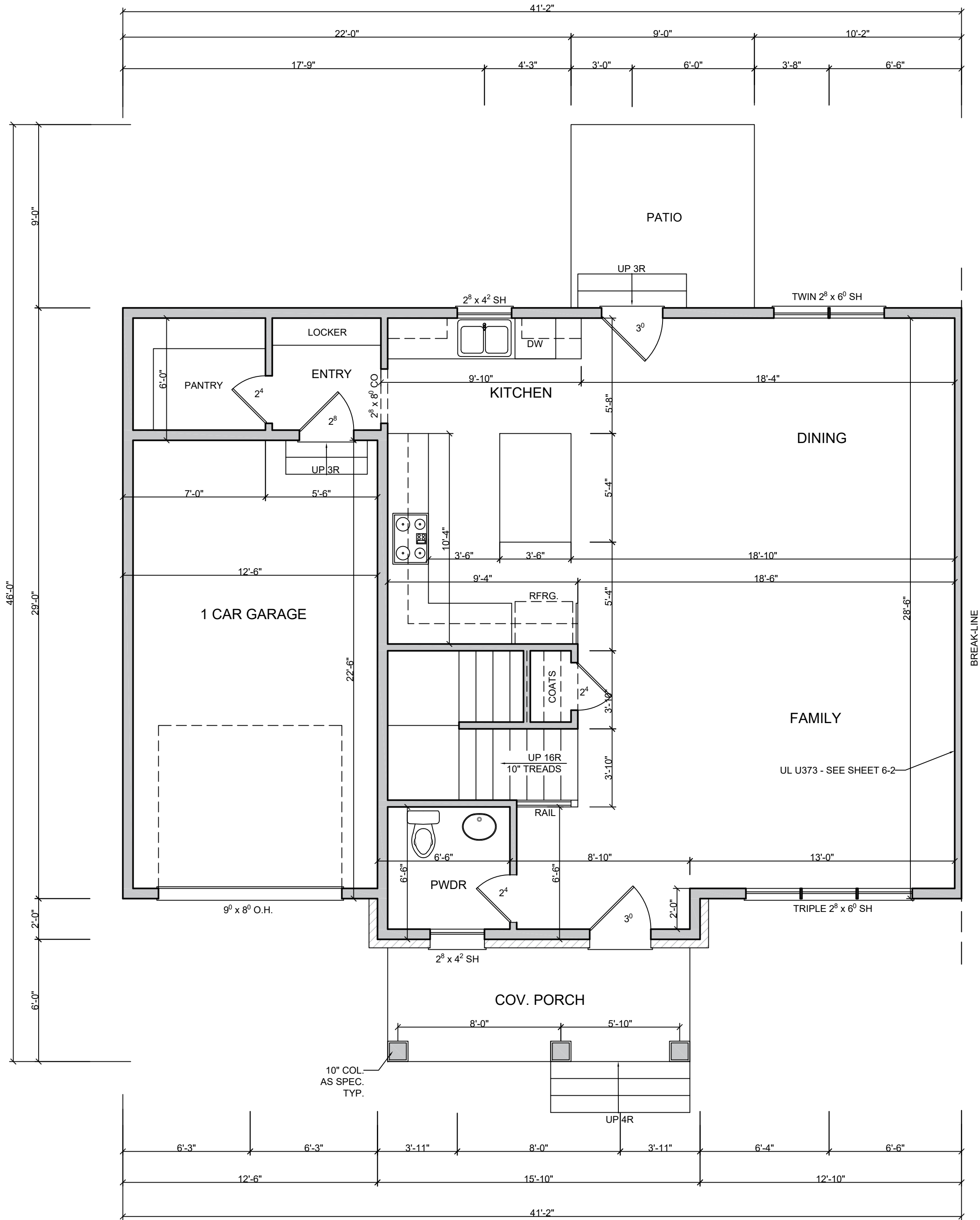
DRAWN BY **CM**
7/18/2024

REVISION DATE
6/18/2026

SHEET NO.

2

FLOOR PLAN



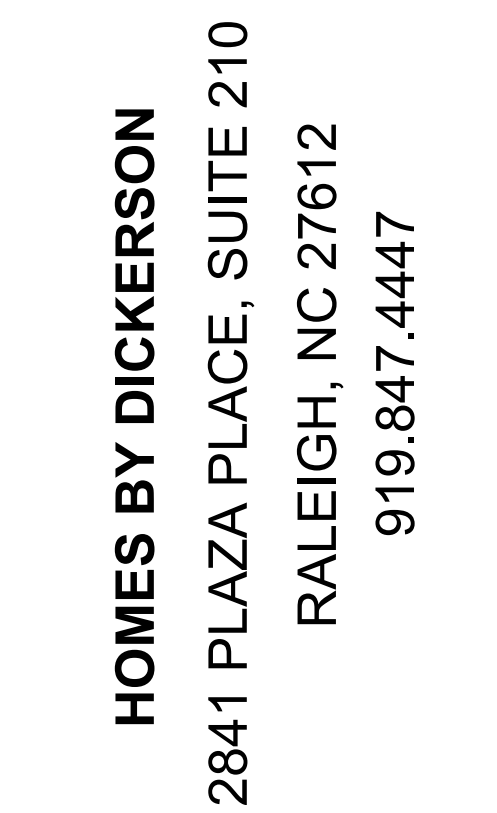
FIRST FLOOR PLAN
9'-0" CEILING HGT.
SET WINDOWS @ 8'-0" A.F.F.
SCALE= 1/4" = 1'-0"

AREA CALCULATIONS - LEFT UNIT

HEATED (SQ.FT.)		UNHEATED (SQ.FT.)	
1ST FLOOR	944	GARAGE	282
SECOND FLOOR	1190	PORCH	118
THIRD FLOOR	446	PATIO	81
		STOR.	57
TOTAL	2580	TOTAL	538

NOTES

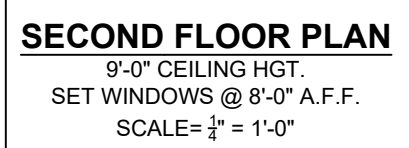
- PLANS DESIGNED UNDER 2018 NORTH CAROLINA RESIDENTIAL CODE.
- ALL ANGLED WALLS ARE 45° UNLESS NOTED OTHERWISE.
- FINISH DOOR AND WINDOW HEADS SHALL ALIGN EXCEPT AS NOTED.
- ALL MATERIALS AND COMPONENTS MUST BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- GRADES SHOWN ARE ILLUSTRATIVE, NATURAL GRADE WILL DETERMINE FINISH GRADE.
- FLOOR PLAN NOTATIONS GOVERN OVER ELEVATION SCALE.
- VERIFY ALL WINDOW SIZES, RADIUS AND DETAILS WITH CHOSEN MANUFACTURER.
- ALL HABITABLE ROOMS SHALL MEET LIGHT/VENTILATION & EGRESS REQUIREMENTS.
- TEMPERED GLASS TO BE USED AT ALL SAFETY REQUIRED LOCATIONS.
- ALL WINDOW GLAZING 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".

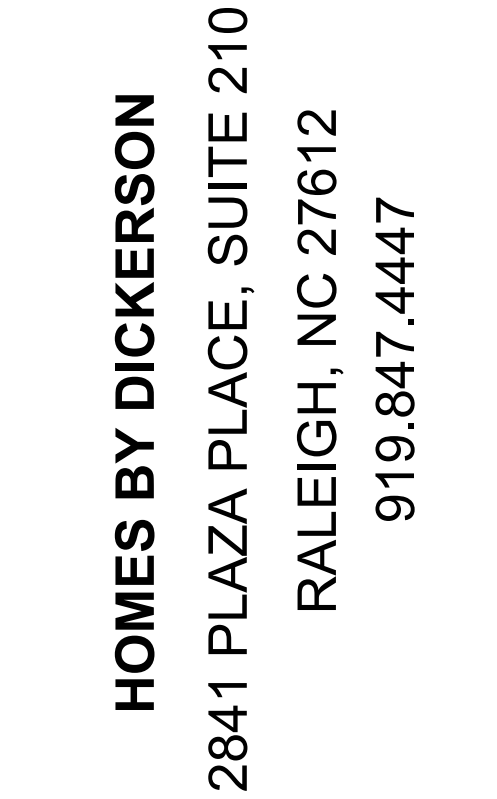


2806 KILGORE AVE

SHEET NO.

FLOOR PLAN





ORIGINAL CONCEPT
BY
JOHN SMYTH

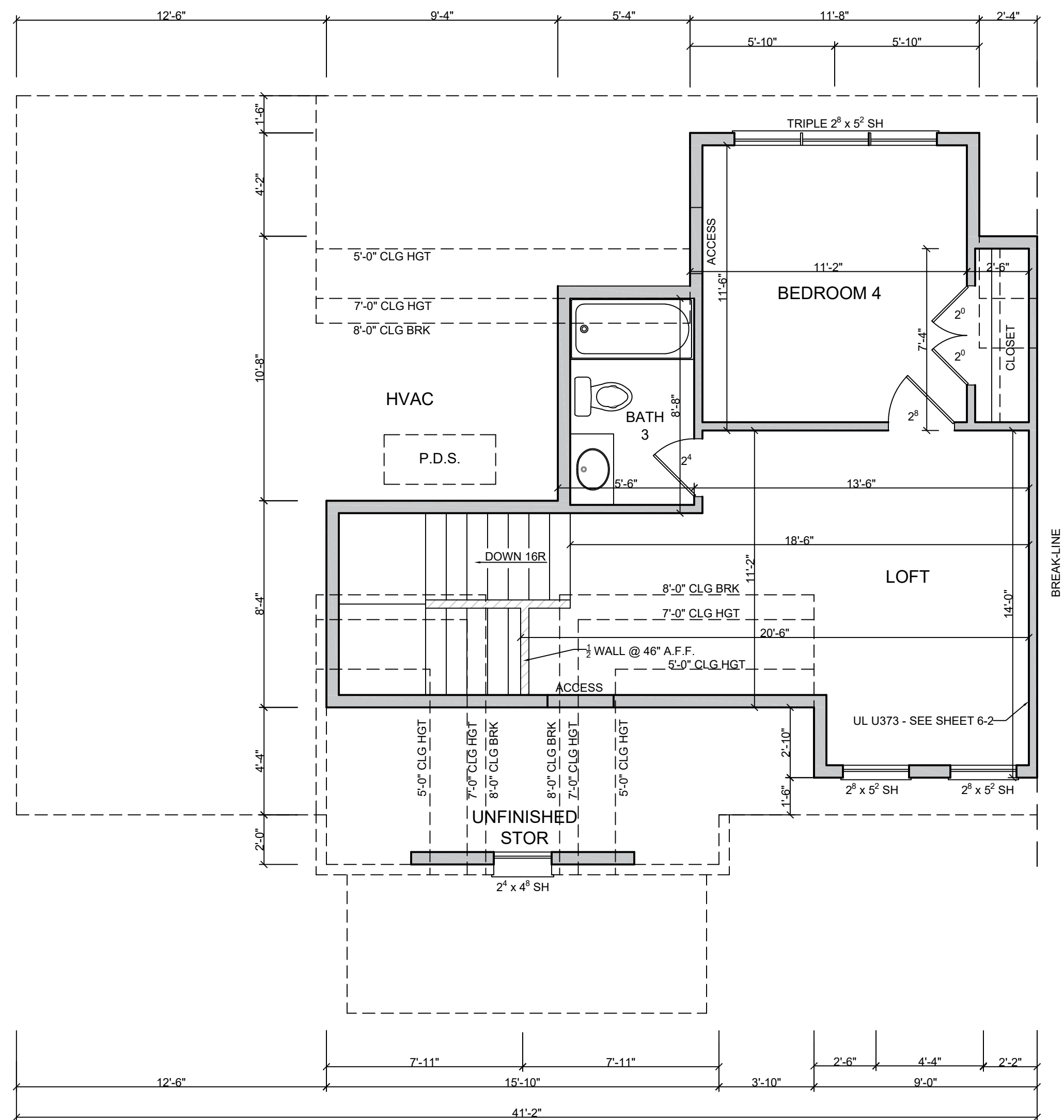
2806 KILGORE AVE

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REVISION DATE
6/18/2026

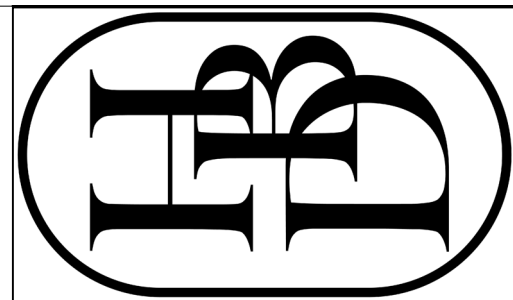
SHEET NO.

4

FLOOR PLAN



THIRD FLOOR PLAN
8'-0" CEILING HGT.
SET WINDOWS @ 7'-6" A.F.F.
SCALE = $\frac{1}{4}" = 1'-0"$



HOMES BY DICKERSON
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RALEIGH, NC 27612
919.847.4447

ORIGINAL CONCEPT
BY
JOHN SMYTH

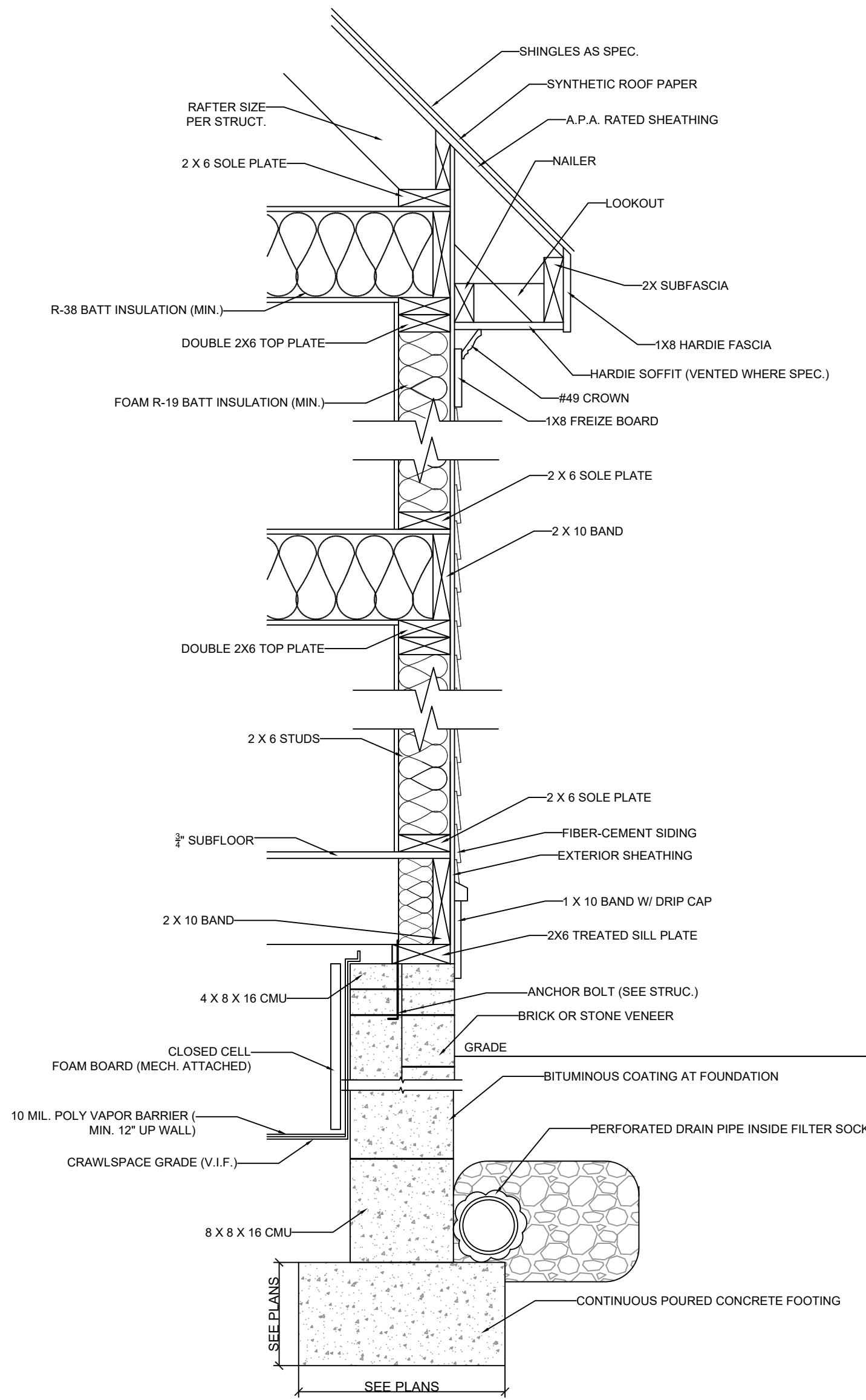
2806 KILGORE AVE

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7/18/2024
REVISION DATE
6/18/2026

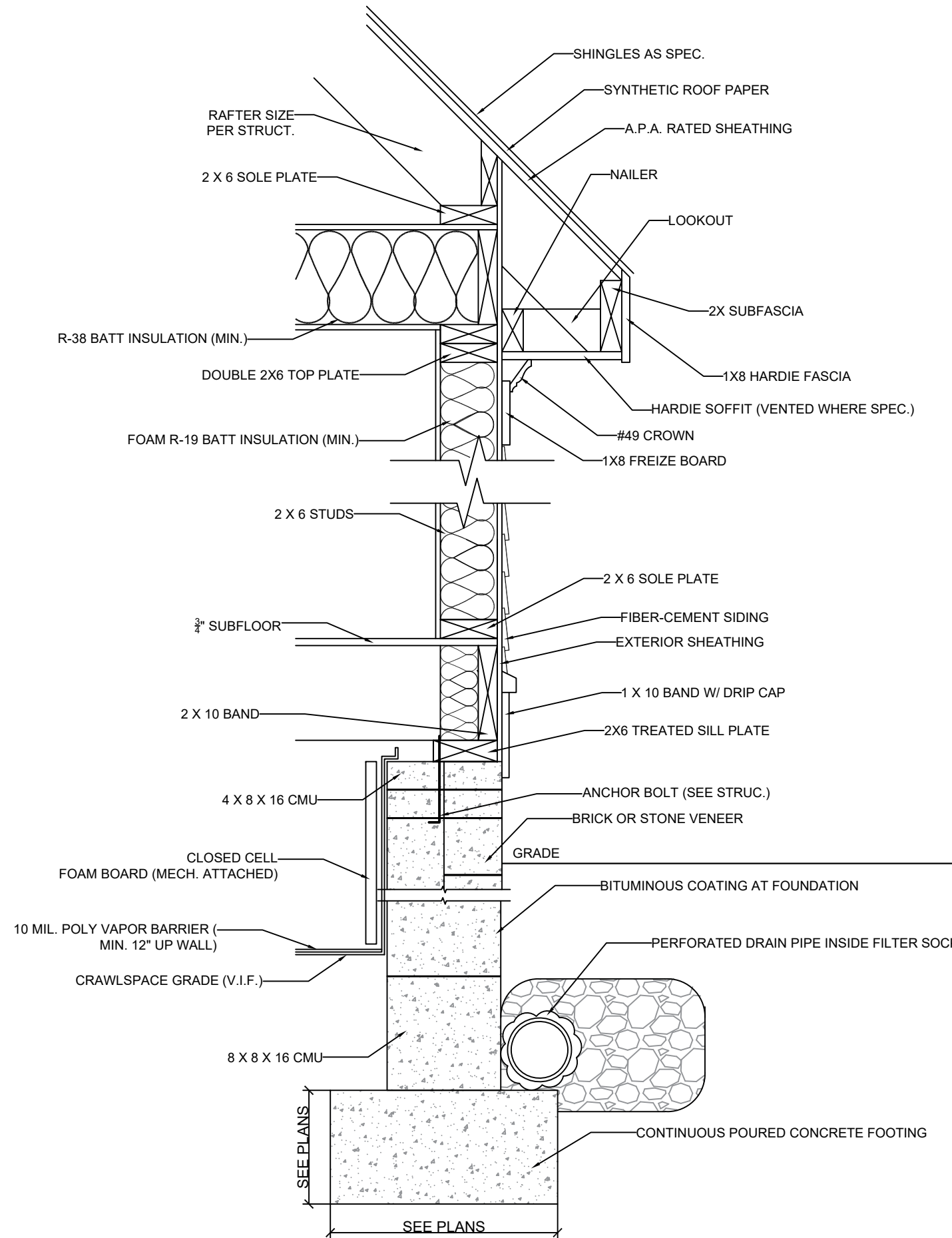
SHEET NO.

5

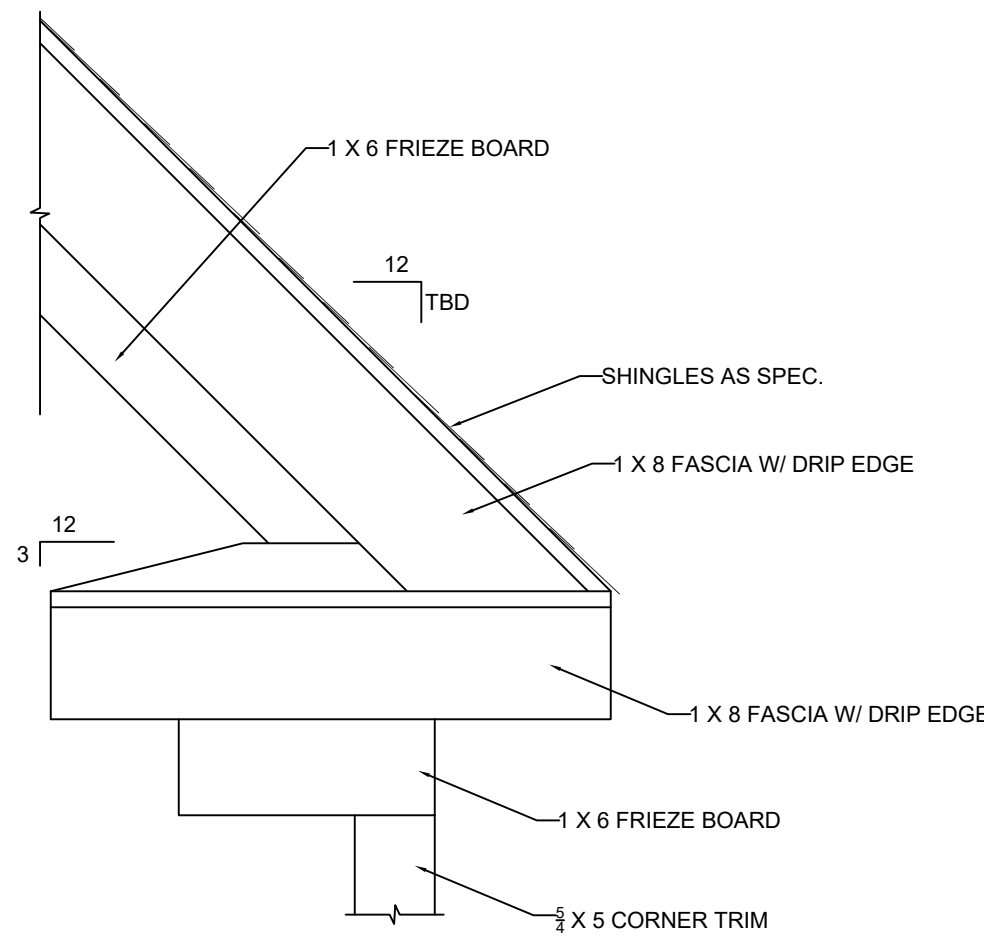
DETAILS



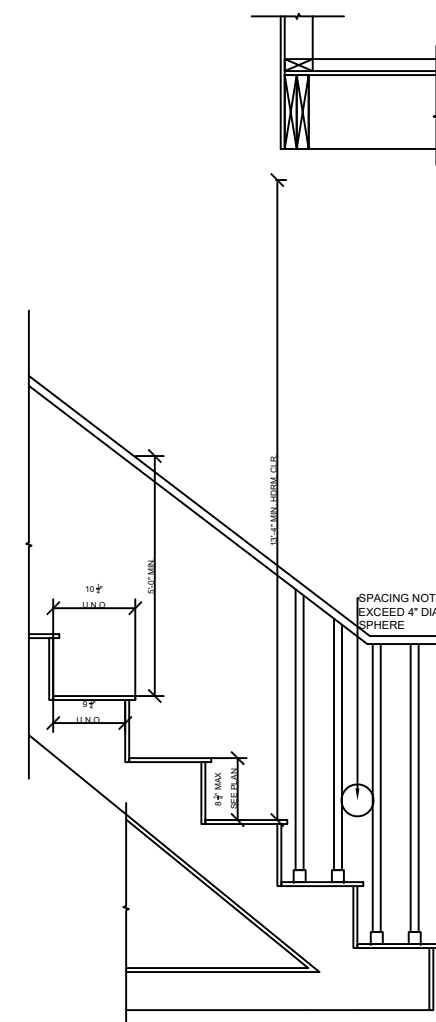
1 2-STORY WALL W/ SIDING
SCALE: 1" = 1'-0"



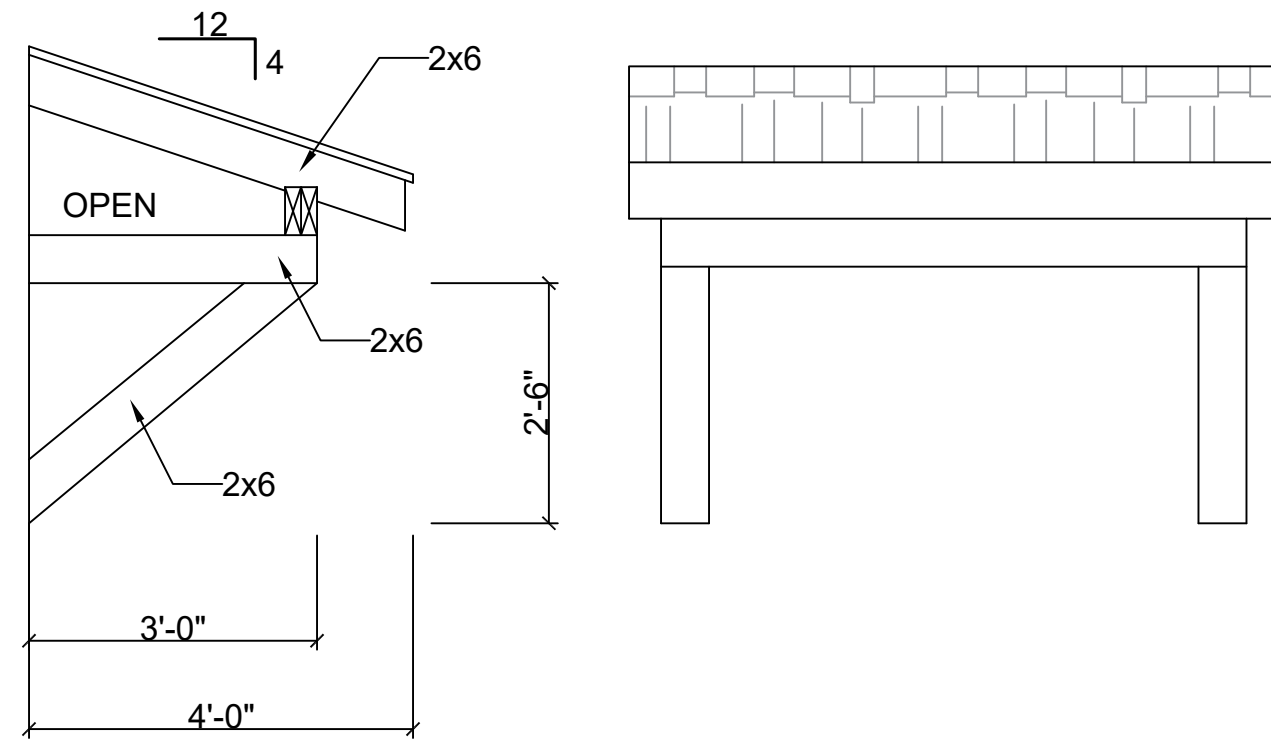
2 1-STORY WALL W/ SIDING
SCALE: 1" = 1'-0"



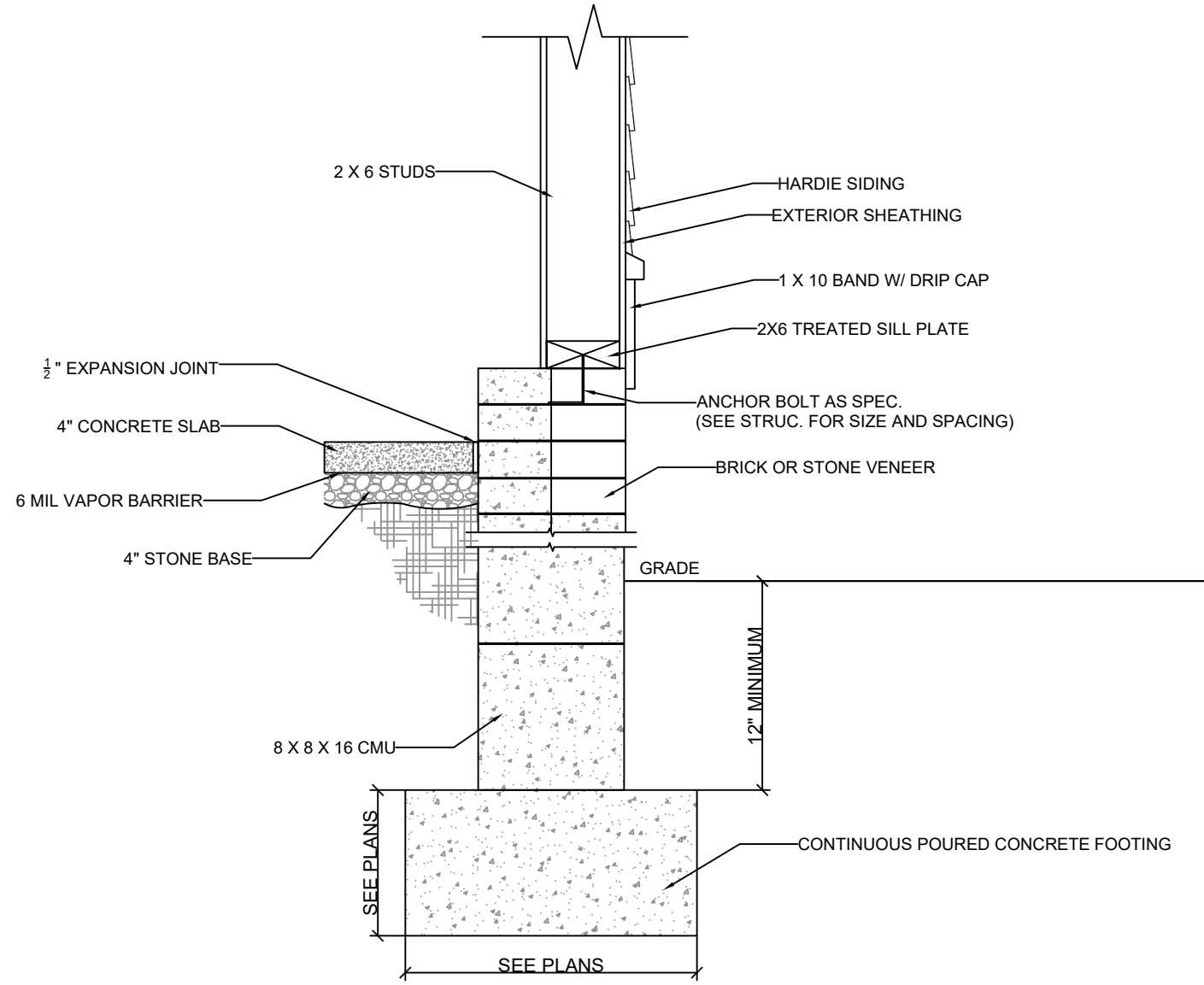
4 CORNICE RETURN DETAIL
SCALE: 1" = 1'-0"



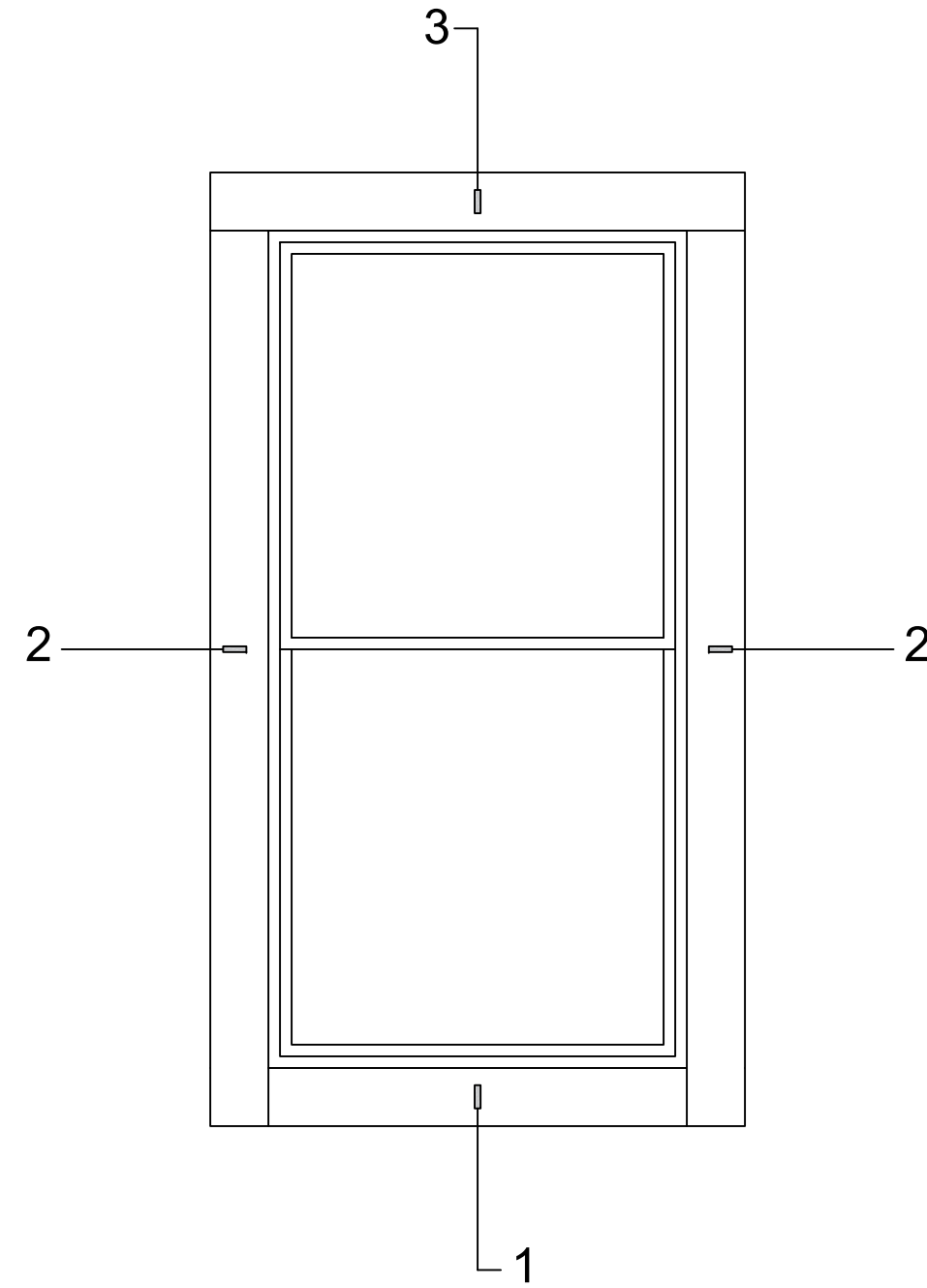
5 TYP. STAIR DETAIL @ 3/4" = 1'-0"



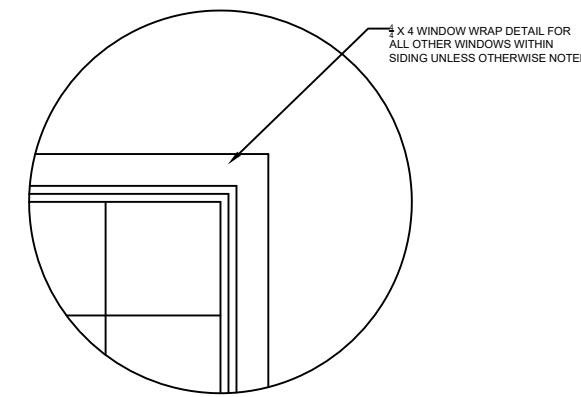
6 AWNING DETAIL
SCALE: 1/2" = 1'-0"



3 GARAGE WALL W/ SIDING
DESIGNED FOR 115MPH WINDS



7 WINDOW TAPE DETAIL
NO SCALE



FOUNDATION VENT CALCS.

$\frac{2646 \text{ SQ. FT.}}{150}$	= 17.64 SQ.FT. VENT REQ'D.
$\frac{17.64 \text{ SQ.FT.}}{.56}$	= 32 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

$\frac{2646}{150}$ SQ.FT. = 17.64 SQ.FT OF TOTAL ROOF VENTILATION REQ'D

213'-6" (LINEAR FT. OF SOFFIT) X .035 (NET FREE AREA PER FT.) = 7.47 SQ. FT. OF AVAILABLE SOFFIT VENT

112'-4" (LINEAR FT. OF RIDGE VENT) X .125 = 14.0

7.47 + 14.0 = 21.47, WHICH MUST BE > OR = 17.64

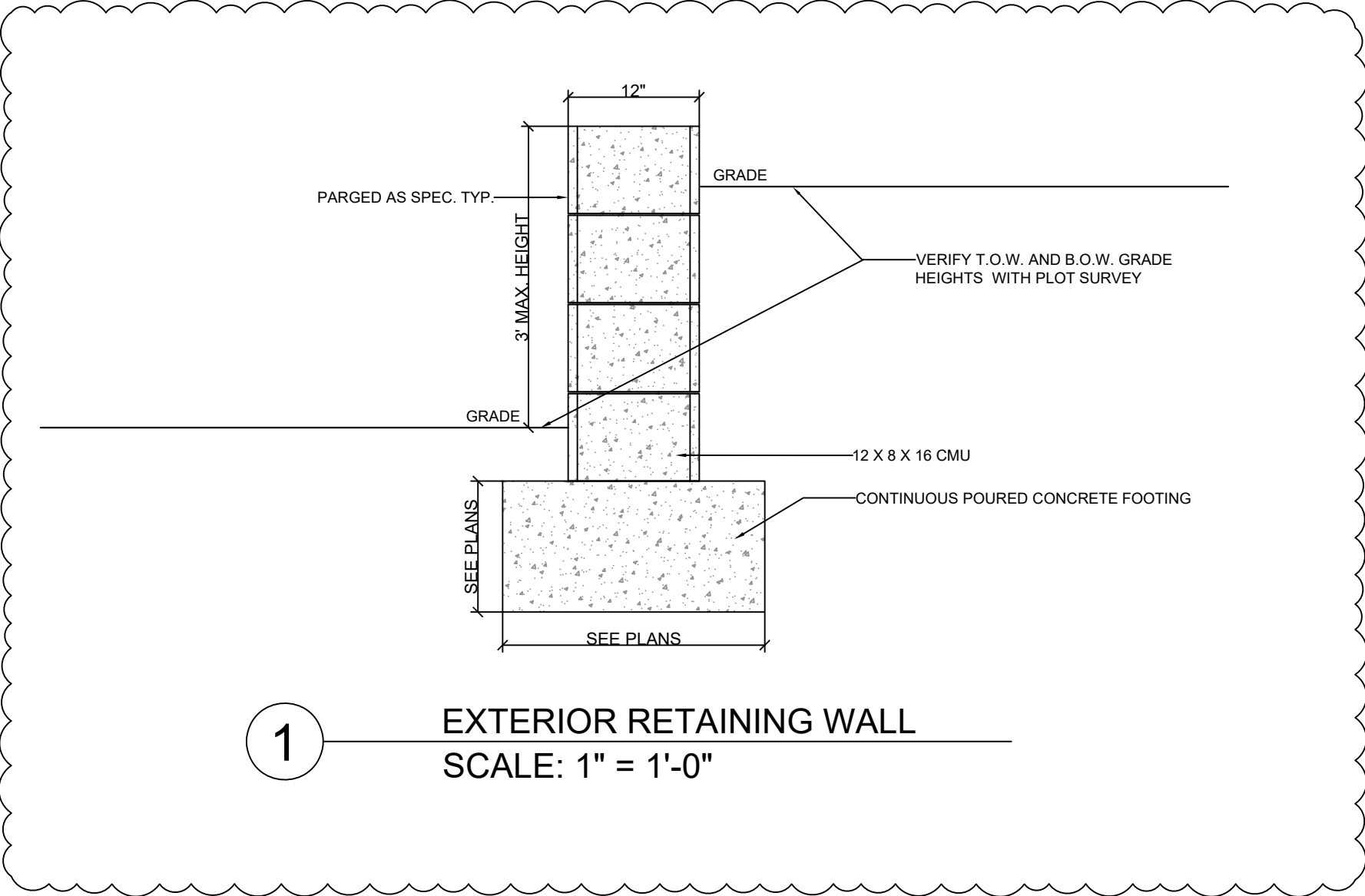
NOTE: FIGURE BASED ON SECTION R-806 OF THE 2018 IRC.
NOTE: - SOFFIT VENT SPECS BASED ON HARDISOFFIT PANELS THAT ALLOWS 5 SQ. IN. OF NET FREE AREA PER LINEAR FT.
- RIDGE VENT SPEC BASED ON VENTURIVENT PLES THAT ALLOWS 18 SQ. IN. OF NET FREE AREA PER LINEAR FT

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

MEAN ROOF	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

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



UL Product iQ®



Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design Criteria and Allowable Variances

Design No. U373

February 16, 2022

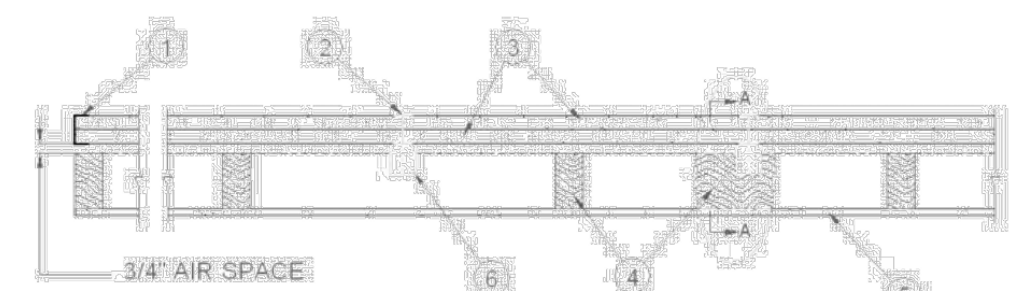
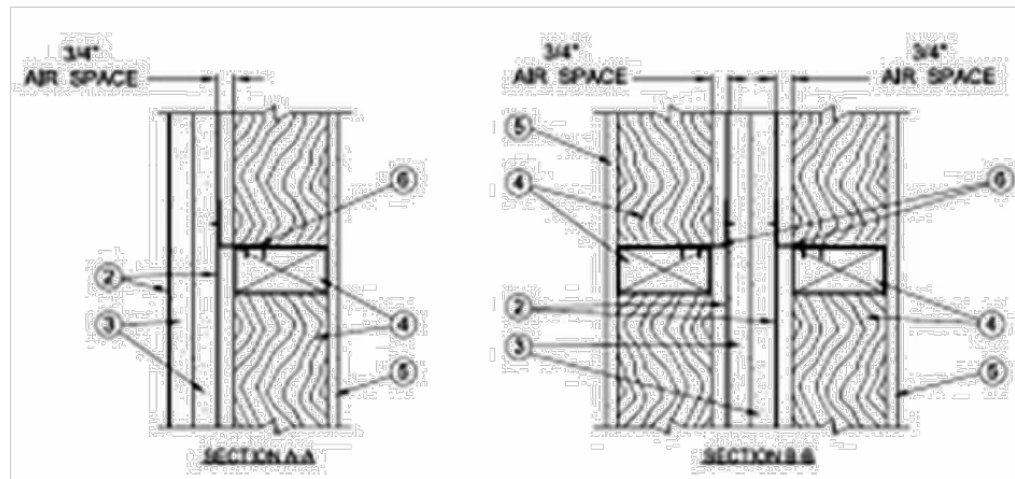
Nonbearing Wall Rating - 2 Hr (Area Separation Wall, See Items 1, 2 and 3)

Bearing Wall Rating 2 Hr (Protected Wall, See Items 4, 4A and 4B)

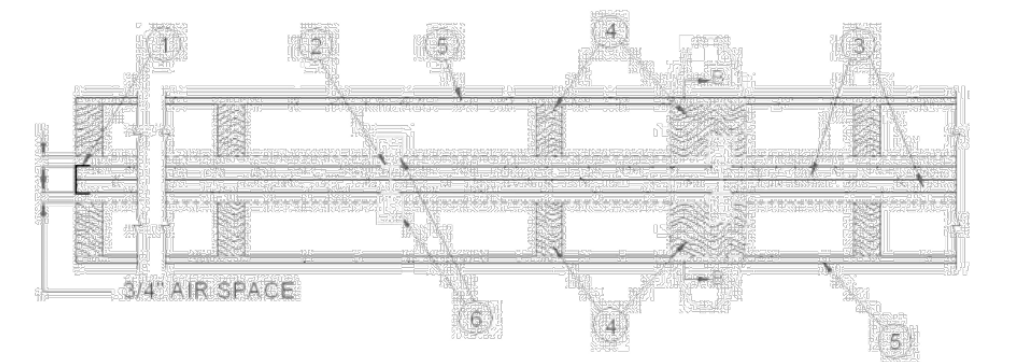
Nonbearing Wall Rating 2 Hr (Protected Wall, See Item 4B)

Finish Rating - 120 Min (See Item 4)

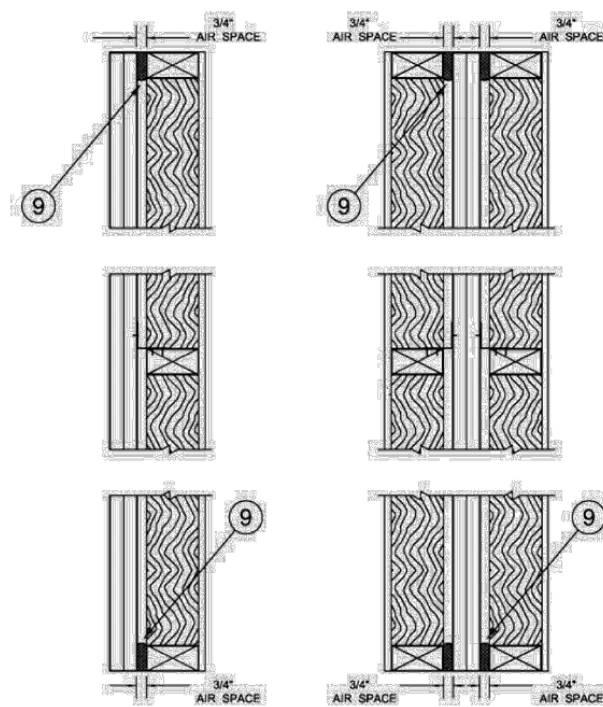
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



CONFIGURATION A
EXPOSED TO FIRE FROM AREA SEPARATION WALL SIDE ONLY



CONFIGURATION B
EXPOSED TO FIRE FROM EITHER SIDE



AREA SEPARATION WALL: — (Nonbearing, Max Height - 44 ft)

1. **Floor, Intermediate or Top Wall** — 2-3/16 in. wide channel shaped with 1 in. long legs formed from No. 25 MSG galv steel, secured with suitable fasteners spaced 24 in. OC.

2. **Steel Studs** — Steel members formed from No. 25 MSG galv steel having "H" - shaped flanges spaced 24 in. OC, overall depth 2-1/8 in. and flange width 1-1/2 in.

3. **Gypsum Board*** — Two layers of 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. widths. Vertical edges of panels friction fitted into "H" - shaped studs.
GEORGIA-PACIFIC GYPSUM L L C — Types TRS, DGUSL

PROTECTED WALL: (Bearing or Nonbearing Wall, as indicated in Items 4, 4A and 4B. When Bearing, Load Restricted for Canadian Applications — See Guide BXUV7.)

4. **Wood Studs** — For 2 Hr, Bearing or Nonbearing Wall Rating - Nom 2 by 4 in., max spacing 24 in. OC. Studs cross-braced at midheight where necessary for clip attachment. Min 3/4 in. separation between wood framing and area separation wall. Finish rating evaluated for wood studs only.

4A. **Steel Studs** — (As an alternate to Item 4, not shown) — For 2 Hr, Bearing Wall Rating - Corrosion protected steel studs, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min 3- 1/2 in. wide, min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, cold formed, shall be designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and

shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC. Studs attached to floor and ceiling tracks with 1/2 in. long Type 5-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications. Top and bottom tracks shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C. Studs cross-braced with stud framing at midheight where necessary for clip attachment. Min 3/4 in. separation between steel framing and area separation wall. Finish rating has not been evaluated for Steel Studs.

4B. **Steel Studs** — (As an alternate to Items 4 and 4A, for use in Configuration B only, not shown) — For 2 Hr, Nonbearing Wall Rating - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min 3-1/2 in. wide, min 1-1/4 in. flange and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. Top and bottom tracks shall be channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. Studs cross-braced with stud framing at midheight where necessary for clip attachment. Min 3/4 in. separation between steel framing and area separation wall. Finish rating has not been evaluated for Steel Studs.

5. **Gypsum Board** — Classified or Unclassified - Min 1/2 in. thick, 4 ft wide, applied either horizontally or vertically. Wallboard attached to wood studs (Item 4) with 1-1/4 in. long steel drywall nails spaced 12 in. OC. Wallboard attached to steel studs (Item 4A or 4B) with 1 in. long Type 5 steel screws spaced 12 in. OC. Vertical joints located over studs. (Optional) Joints covered with paper tape and joint compound. Nail or screw heads covered with joint compound.

5A. **Plywood Sheathing or OSB** — (Not shown) — As an alternate to Item 5, Nominal 1/2 in. thick or greater plywood or OSB applied horizontally or vertically to wood or steel studs. Vertical joints located over studs. Horizontal joints shall be butted tight to form a closed joint. Fastened to studs with nails or screws of sufficient length, spaced 12 in. OC. Joints and fastener heads are not required to be treated. Aluminum clips shall be spaced as described in Item 6.

6. **Attachment Clips** — Aluminum angle, 0.062 in. thick, min 2 in. wide with min 2 in. and 2-1/2 in. legs. Clips secured with minimum one Type 5 screw 3/8 in. long to "H" studs and with minimum one Type W screw 1-1/4 in. long to wood framing or steel framing through holes provided in clip. Clips spaced a max of 10 ft OC vertically between wood or steel framing and "H" studs for separation walls up to 23 ft high. For separation walls up to 44 ft high, clips spaced as described above for the upper 24 ft, and the remaining wall area below requires clips spaced a max 5 ft OC vertically between wood or steel framing and "H" studs.

7. **Batts and Blankets*** — (Optional, not shown) — Placed in stud cavities, any glass fiber or mineral wool insulation, max 3.0 pcf density, bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. Min 3/4 in. separation between insulation and area separation wall.

8. **Plywood Sheathing or OSB** — (Optional) — Min 1/2 in. thick plywood or OSB applied horizontally or vertically to "H" studs on area separation wall side of Configuration A. Vertical joints located over studs. Fastened to "H" studs with screws of sufficient length, spaced a maximum of 12 in. OC.

9. **Caulking and Sealants*** — (Optional - Intended for use as an air barrier - Not evaluated as fireblocking) - A bead of sealant applied around the partition perimeter in the 3/4 in. air space between wood framing (Item 4) and shaftliner panels (Item 3) to create an air barrier.

DUPONT DE NEMOURS, INC. — Great Stuff Gaps & Cracks, Great Stuff Pro Gaps & Cracks, Great Stuff Pro Window & Door

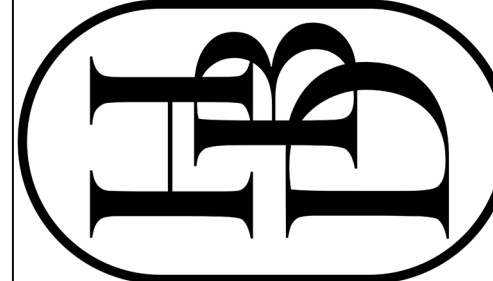
ICP ADHESIVES & SEALANTS INC — Fireblock, Window & Door, Insulating Foam Sealant, Multi-Purpose, HC Sealants, Black Foam Sealant, Extreme, Window & Door Extreme, Fast Foam, Gun Foam, and Straw Foam

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2022-02-16

2

2 HOUR FIRE-RATED DEMISING WALL



HOMES BY DICKERSON
2841 PLAZA PLACE, SUITE 210
RALEIGH, NC 27612
919.847.4447

ORIGINAL CONCEPT
BY
JOHN SMYTH

2806 KILGORE AVE

DRAWN BY CM
7/18/2024

REVISION DATE
6/18/2026

SHEET NO.

6

DETAILS