





Concrete Construction Notes

- Concrete work shall conform to "Building Code Requirements for Reinforced Concrete" (ACI-318) and "Specifications for Structural Concrete" (ACI-301), Latest Edition.
- Concrete mix shall conform to the following specifications: All concrete mixes shall contain a water-reducing admixture conforming to ASTM C-494. Air-entraining admixture shall conform to ASTM C-260.

CONCRETE MIX A

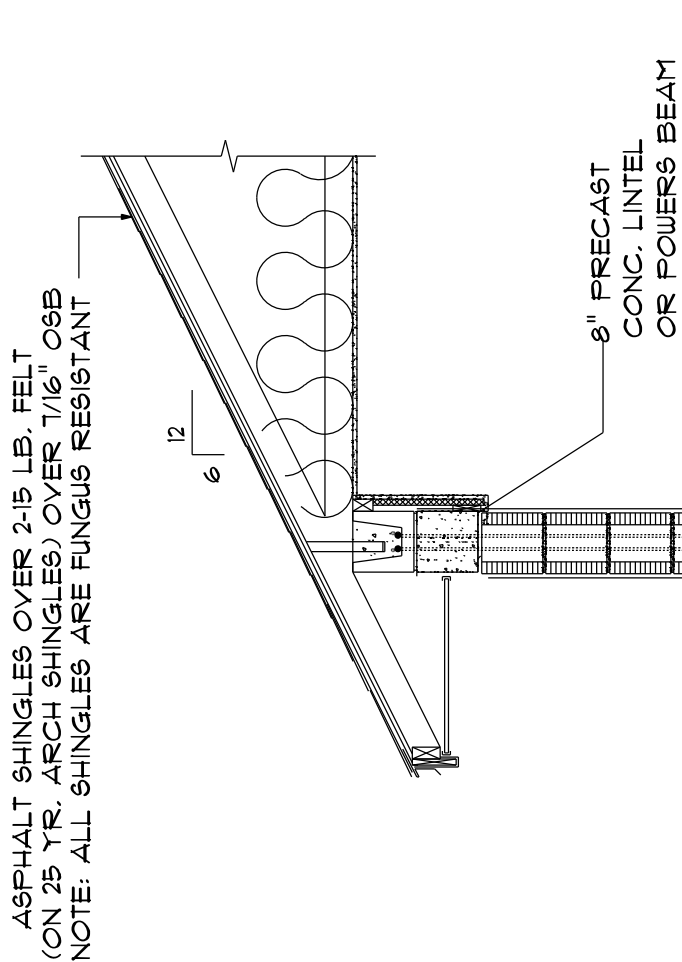
Ultimate Compressive Strength @ 28 days  
Slump Range  
Maximum Aggregate Size  
Entrained Air  
Dry Weight per Cubic Foot

3,000 PSI  
4" +/- 1"  
1"  
None  
150 #

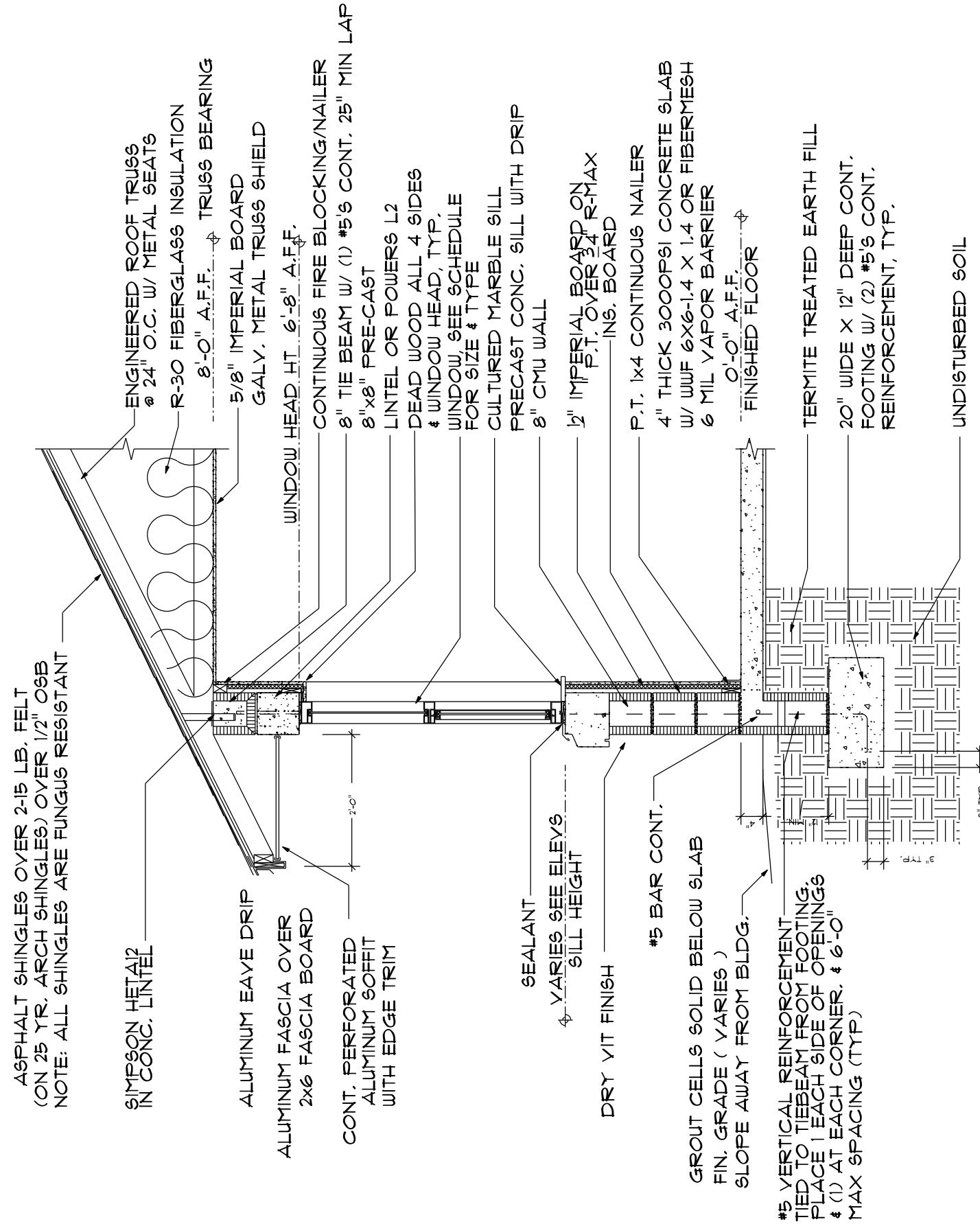
- All concrete shall be cured for a minimum of 28 days. If forms for vertical surfaces are removed prior to the end of the curing period, spray surfaces with liquid membrane curing compound.
- Reinforcing steel shall conform to ASTM A615, Grade 40 (Fy=40 ksi). Lap continuous bars for tension lap splice per ACI-318, unless otherwise noted. Provide corner bars of same size and spacing as horizontal wall reinforcement. Cover for concrete reinforcing steel shall be in accordance with ACI-318, Paragraph 7.7.
- Welded wire fabric (WWF) shall conform to ASTM A185. Lap sheets two mesh spaces and wire tie adjacent sheets together securely. Cut alternate reinforcement at control joints.
- All slabs on grade shall have construction or control joints not to exceed 10' - 0" spacing, unless otherwise noted.
- Electrical conduit and other pipes to be embedded in structural concrete floor slabs or walls shall be placed in accordance with the requirements of ACI-318, Paragraph 6.3.

Masonry Construction Notes

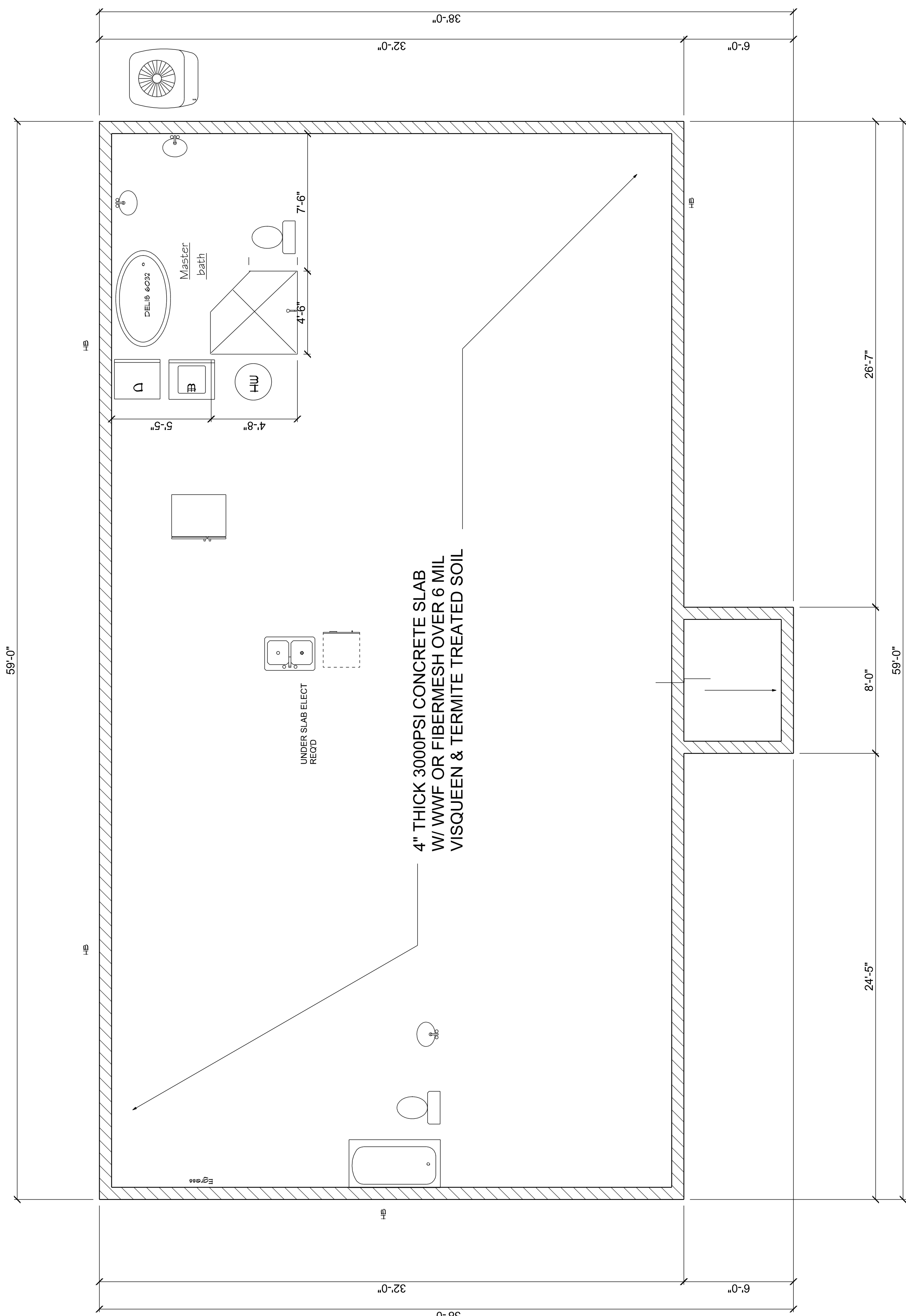
- Concrete masonry work shall conform to "Building Code Requirements for Masonry Structures" (ACI 530-02/ASCE5-02) and "Specifications for Masonry Structures; (ACI 530.1-02/ASCE6-02).
- Concrete masonry units shall be Type 1 and comply with "Standard Specifications for Hollow Load-Bearing Concrete Masonry Units" (ASTM C90-90).
- The minimum net area compressive strength of masonry (fm), as determined by the unit strength method, shall be 1500 psi.
- Mortar shall conform to ASTM C270. Type M Mortar shall be used unless otherwise noted. Type S Mortar shall be used with masonry in contact with earth.
- Masonry column reinforcement shall have #2 ties in the bed joints at 8" oc, unless otherwise noted.
- Grout for filling block cores and bond beams shall have a minimum compressive strength (fc) of 3,000 psi at the age of 28 days.



WALL SECTION 2

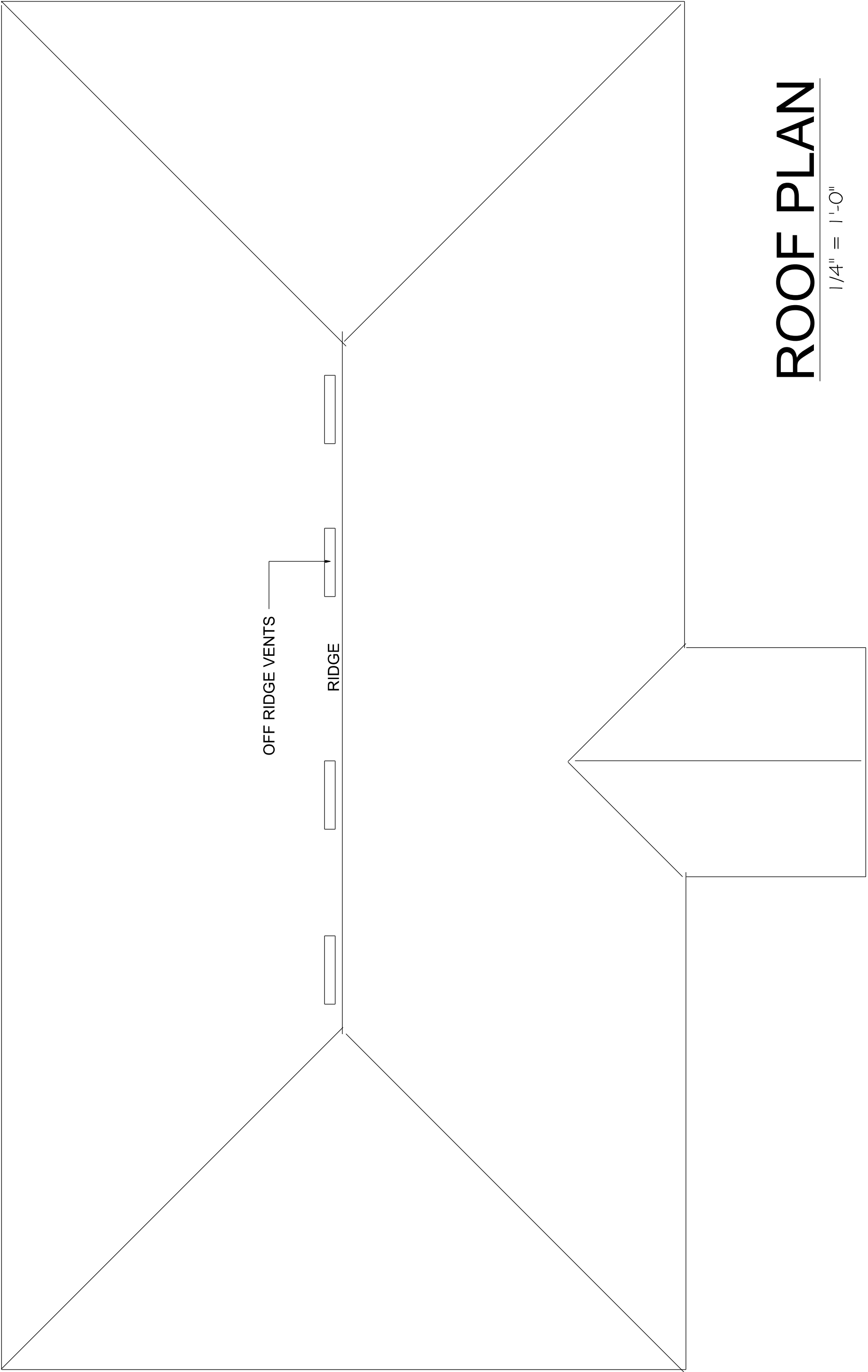


WALL SECTION 1



FOUNDATION PLAN VIEW





## ROOF PLAN

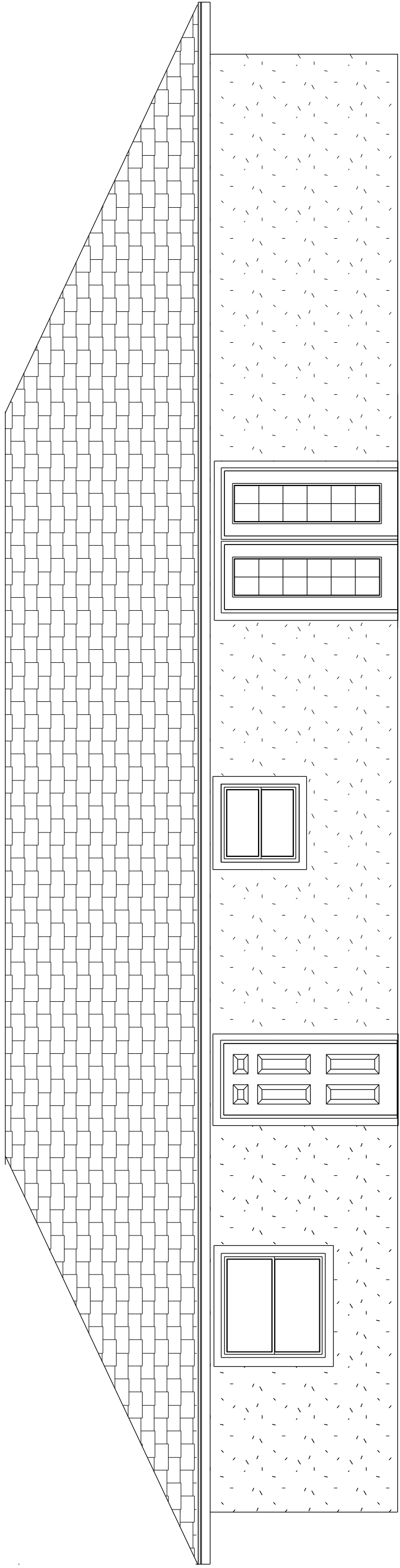
1/4" = 1'-0"

### VENTILATION

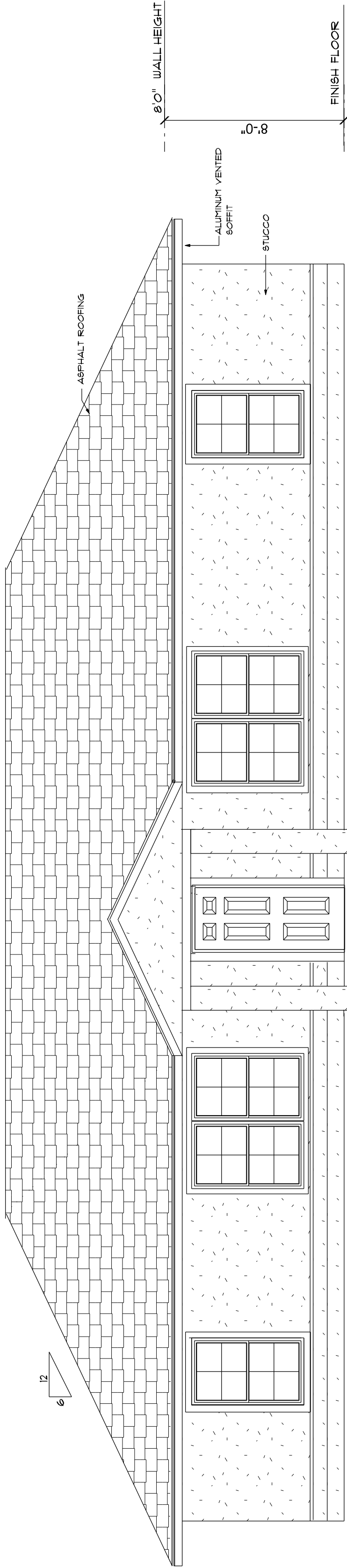
SQ.FT. OF NEW CEILING 1888/ 300 = 6.3 SQ.FT.  
NET FREE AREA / 2 = 3.15 SQ.FT. VENT SYSTEM  
REQUIRED  
EQUALS

454 SQ. IN.

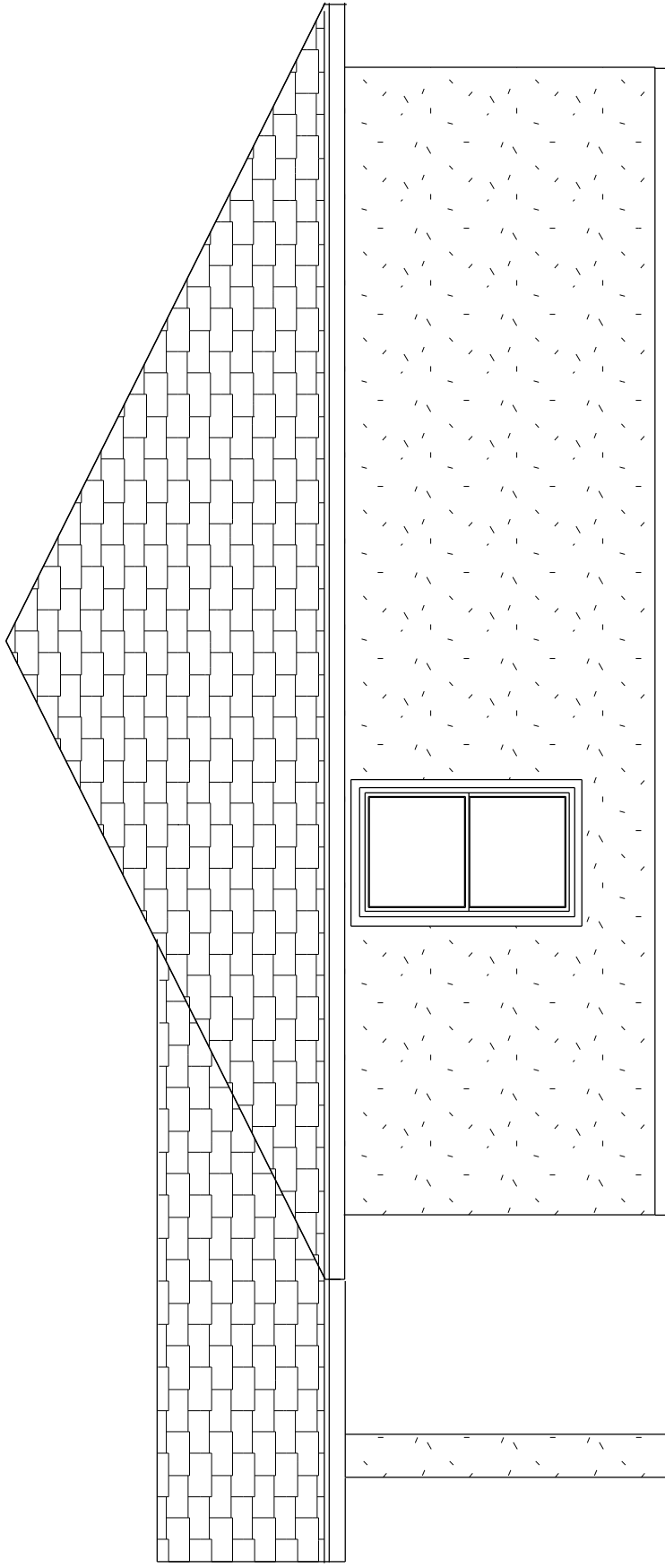
4 OFF RIDGE VENTS = 460 SQ. IN.  
TOTAL TO BE INSTALLED 460 SQ. IN.  
SOFT VENT SYSTEM 3.15 SQ.FT.  
DIVIDED BY 0.03226 S.F. PER SQ.FT.  
OF SOFT  
EQUALS S.F. OF SOFT PANEL PER SYSTEM 98 SQ.FT.  
DIVIDED BY 1.5 = 66 L.F. OF VENTED SOFT  
BUILDING HAS 100+ OF SOFT AVAILABLE



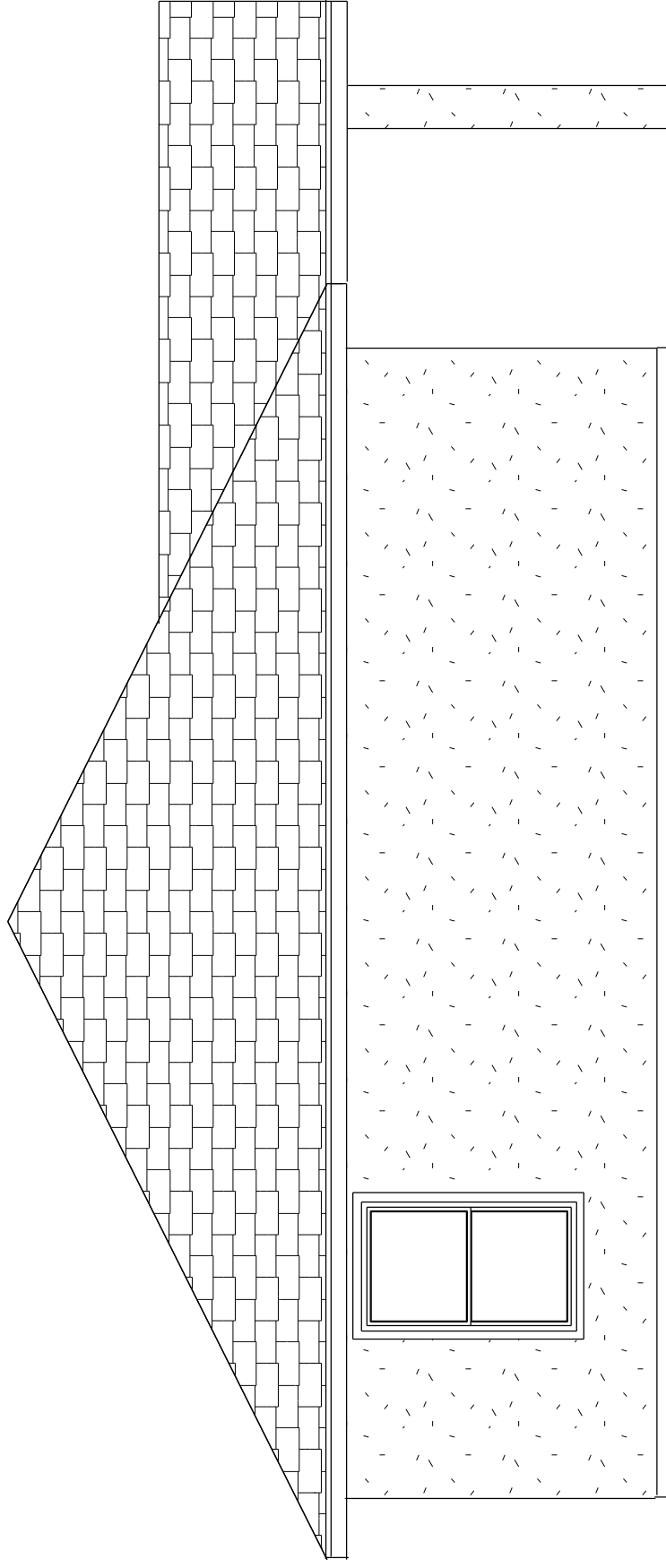
REAR ELEVATION



FRONT ELEVATION



RIGHT ELEVATION



LEFT ELEVATION

William Johnson Drafting  
2905 NW 104th Ct  
Gainesville, FL 32606  
494-2041

FEDERICO  
PARCEL 32-35-02420-009  
COLUMBIA CO, FL DS22-29

DATE: 6-28-22

Sheet  
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PROFESSIONAL SERVICES BY  
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PH (352)-331-1513  
CA 8890

PLANS AND SPECIFICATIONS

The plans and specifications presented herein are applicable only for the anticipated construction at the locations shown. If construction plans change, the Design Professional should be notified so the plans and specifications can be re-evaluated. The Design Professional should be given the opportunity to review final plans and specifications to see if the intent of the plans and specifications has been followed and/or if supplemental details and recommendations are needed. The Design Professional warrants that the plans and specifications contained herein, have been prepared in accordance with generally accepted professional engineering practice. No other warranties are implied or expressed.

CORPORATE PROTECTION

It is understood and agreed that the Design Professional's Basic Services under this Agreement do not include project observation or review of the Contractor's performance or any other construction phase services, and that such services will be provided by the Client. The Client assumes all responsibility for interpretation of the contractor Documents and for construction observation and supervision and waives any claims against the Design Professional that may be in any way connected thereto.

In addition, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost, including reasonable attorney's fees and costs of defense, arising or resulting from the performance of such services by other person or entities and from any and all claims arising from modifications, clarifications, interpretations, adjustments or changes made to Contract Documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct to the Design Professional.

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain the property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright thereto.

DEFECTS IN SERVICE

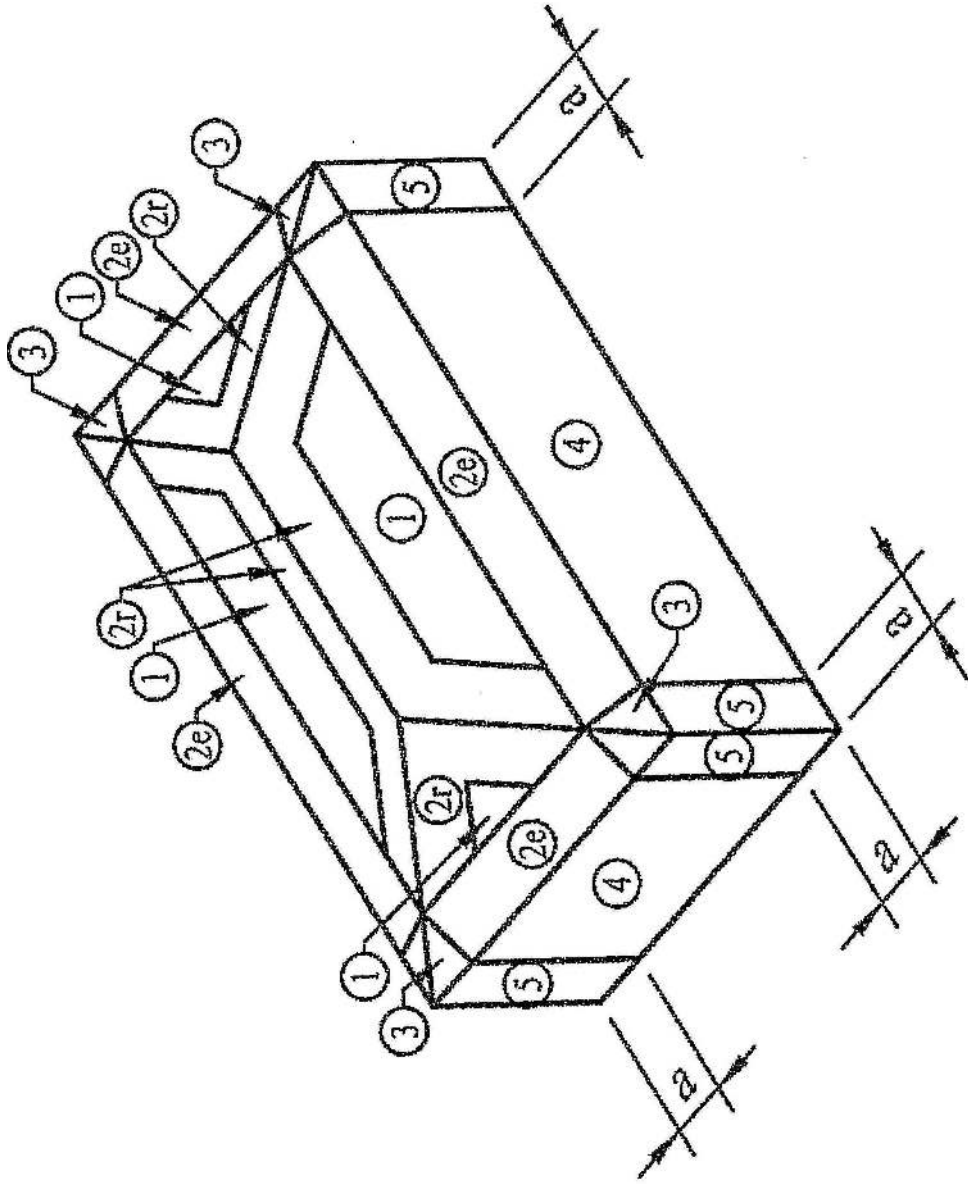
The Client shall promptly report to the Design Professional any defects or suspected defects in the Design Professional's work or services of which the Client becomes aware, so that the Design Professional may take measures to minimize the consequences of such a defect. The Client warrants that he or she will impose a similar notification requirement on all contractors in his or her Client/Contractor contract and shall require all subcontractors at any level to contain a like requirement. Failure by the Client, and the Client's contractors or subcontractors to notify the Design Professional, shall relieve the Design Professional of the costs of remedying the defects above the sum such remedy would have cost had prompt notification been given.

VERIFICATION OF EXISTING CONDITIONS

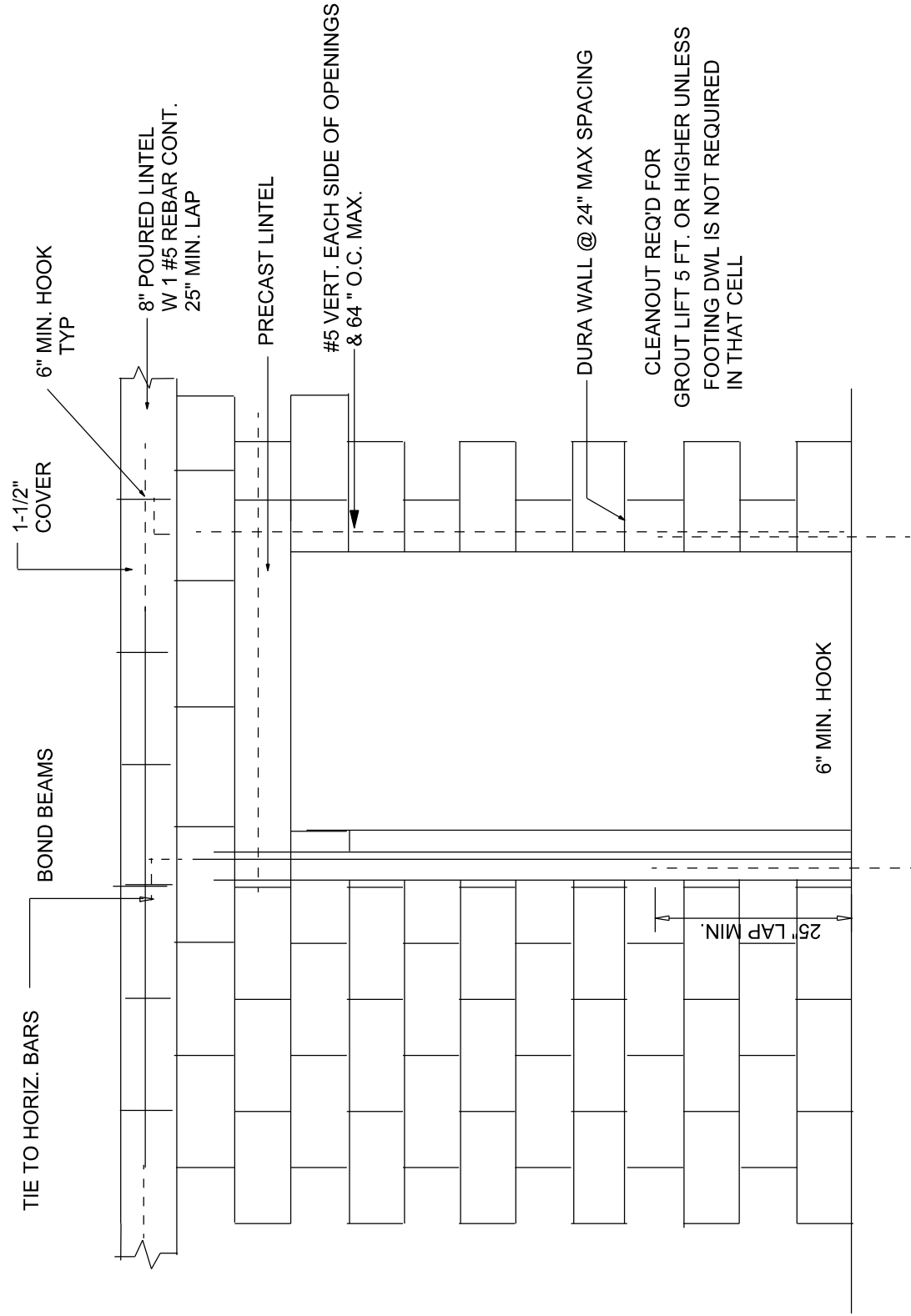
Inasmuch as the remodeling and/or rehabilitation of an existing building requires that certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate or serviceable portions of the building, the Client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any claim, liability or cost (including reasonable attorney's fees and costs of defense) for injury or economic loss arising or allegedly arising out of the professional services provided under this Agreement, excepting only those damages, liabilities, or costs attributable to the sole negligence or willful misconduct of the Design Professional.

Wind Pressure Summary for CgC Zones based Upon Area Ch. 30 ft. 1 (Table 1 of 3)  
All wind pressures include a load factor of 0.6

| Zone | Figure  | A ≤ 2.00 sq ft<br>psf | A = 4.00 sq ft<br>psf | A = 10.00 sq ft<br>psf |
|------|---------|-----------------------|-----------------------|------------------------|
| 1    | 30.3-2C | 11.16 -21.30          | 10.26 -21.30          | 9.60 -21.30            |
| 2a   | 30.3-2C | 11.16 -21.30          | 10.26 -21.30          | 9.60 -21.30            |
| 2b   | 30.3-2C | 11.16 -33.99          | 10.26 -33.99          | 9.60 -33.99            |
| 2c   | 30.3-2C | 11.16 -33.99          | 10.26 -33.99          | 9.60 -33.99            |
| 3a   | 30.3-2C | 11.16 -33.99          | 10.26 -33.99          | 9.60 -33.99            |
| 3b   | 30.3-2C | 11.16 -47.93          | 10.26 -47.93          | 9.60 -39.65            |
| 4    | 30.3-1  | 14.96 -16.23          | 14.96 -16.23          | 14.96 -16.23           |
| 5    | 30.3-1  | 14.96 -20.04          | 14.96 -20.04          | 14.96 -20.04           |

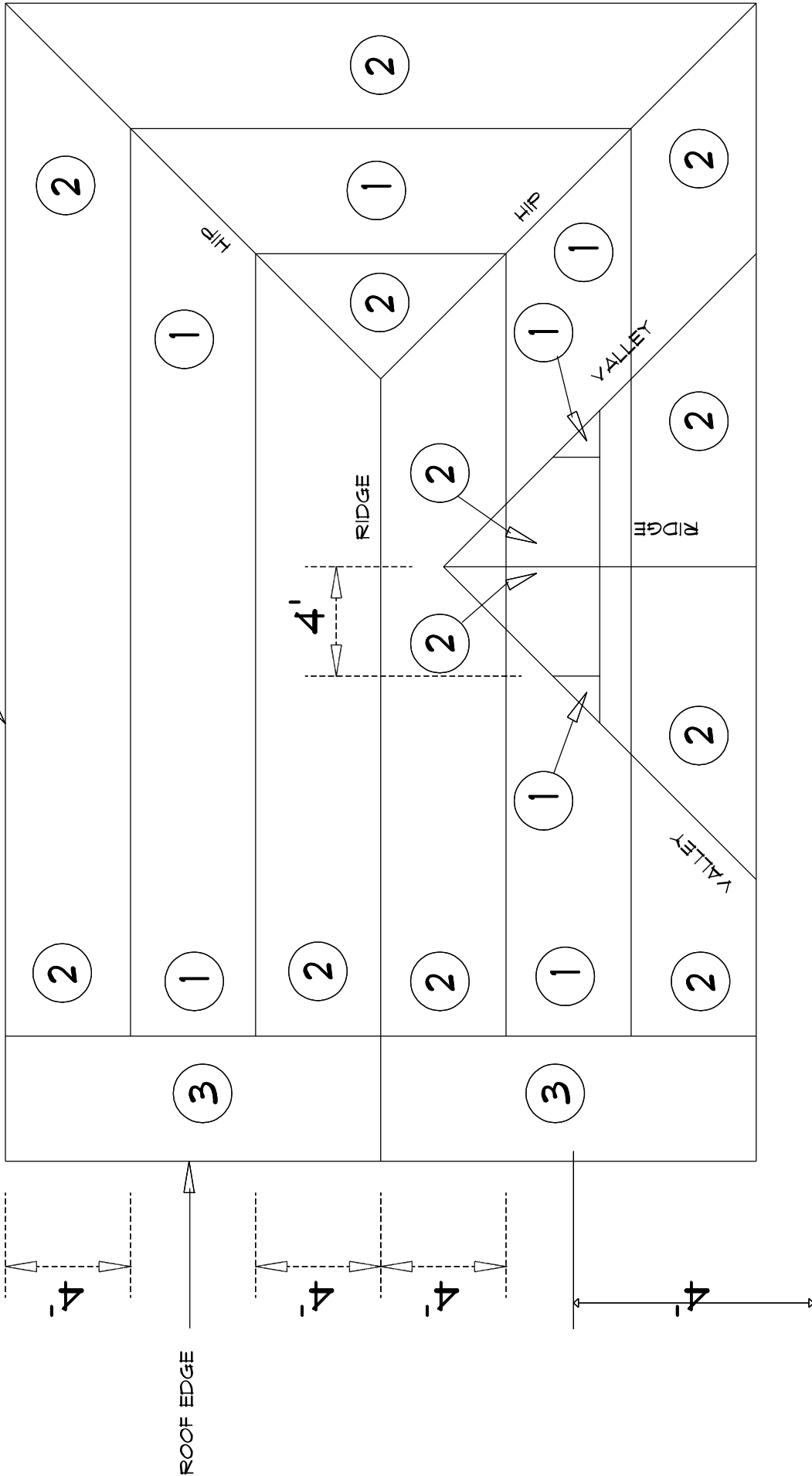


Hip Roof (7° ≤ Θ ≤ 45°)



CMU WALL OPENING REINFORCING  
NTS

| CONNECTOR SCHEDULE FOR LOAD BEARING & SHEAR WALLS |        |     |              |                     |
|---------------------------------------------------|--------|-----|--------------|---------------------|
| TO CONNECT                                        | TO     | NO. | PRODUCT CODE | FASTENER            |
| TRUSS                                             | LINTEL |     | HETA 12      | 9-10dX 1-1/2"       |
| GIRDER TRUSS                                      | LINTEL |     | HETA 12      | 9-10dX 1-1/2"       |
|                                                   |        |     |              | UPLIFT CAPACITY LBS |
|                                                   |        |     |              | 1810                |



NOTES:  
ALL EDGES AT TRUSSES 6" O.C. ON THE EDGE AND INTERMEDIATE TRUSSES 12" O.C.  
ALL NAILS TO BE #8 RING SHANK NAILS MIN.

ROOF ATTACHMENT PLAN  
(NTS)

Certification

I hereby certify that the accompanying wind load analysis for the New Residence as described above demonstrates compliance with the FBC 2020 7th Edition Section 1609, to the best of my knowledge.

Project Wind load Information

- Ultimate wind speed = 130 MPH
- Nominal wind speed = 101 MPH
- Risk Category = II
- Wind exposure for this design is Exposure B
- Interior Pressure Coefficient or Gcpi = +/- 0.18
- For design of MWFRS: see attached MECAWind Version 2.1.0.6 per ASCE 7-10
- Roof Design live load 20 psf.
- Floor Design load 40 psf.

Drawings

See drawings for additional details. In case of conflict, the more restrictive requirements of the drawings or these calculations govern.

Roof Structure

- Trusses: Pre-engineered wood trusses at 24" o.c. The Truss engineering for this project was provided by Builders FirstSource job# 3112260 Signed & Sealed by Michael S. Mangid P.E. # 53681 Dated: April 15, 2022.
- Roof Sheathing: Sheathing to be 7/16" Structural Sheathing min. to adequately resist exterior shear and uplift forces due to nailing. Panels to be facenailed w/ #8 ring shank (0.113 Dia.) @ 6" oc along edges and @ 8" oc along interior supports. Galv. metal edging to be nailed @ 4" oc.
- Roofing: Asphalt Shingles shall be installed per mfg. specifications to meet 130 m.p.h. windloading & in accord with the Florida Building Code 2020.

Exterior Walls

- Exterior Wall: 8" Concrete Masonry Units (ASTM C90 or C145, 1500 psi min) will adequately resist exterior shear forces. Mortar type M.

- Bond Beam to be (1) 8" min. Masonry with (1) #5 reinforcement with grout continuous. Note bond beam to remain continuous without breaks or interruptions to maintain shear transfer capacity. Minimum splice lap of #5 rebar is 25" at all locations. Install plated steel bearing plate at truss/masonry bearing points. Vertical spacing of grouted reinforced cells w/ (1) #5 rebar is to be 72" o.c. typical. Install a minimum of 1 each vertical #5 bar in each cell on either side of each corner and on each side of any openings. Minimum splice lap of #5 rebar is 25".

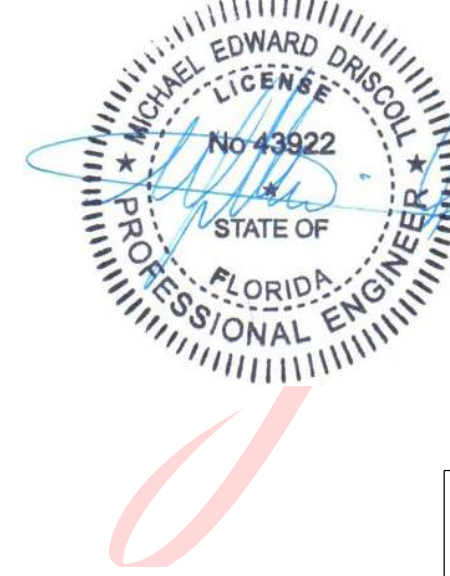
Foundations (sizes based on wind load requirements only):

Stemwall Footing 20" wide x 10" deep w/ 2 #5 bars cont. 25"min bar lap.

| CAST CRETE LINTEL SCHEDULE |        |
|----------------------------|--------|
| LENGTH                     | TYPE   |
| 3'-0" TO 7'-0"             | 8F80B  |
| 7'-0" TO 10'-0"            | 8F81B  |
| GARAGE                     | 8F161B |

SHEAR WALLS QUANTITY  
TRANSVERSEAL SHEARWALLS = 10'-0"  
LONGITUDINAL SHEARWALLS = 66'-0"

Digitally signed by  
Michael E. Driscoll PE  
Date: 2022.06.28 10:14:27 -04'00'



Sheet  
WL 1  
DATE: 6-28-22

FEDERICO  
PARCEL 32-35-02420-009  
COLUMBIA CO., FL DS22-29

MICHAEL E DRISCOLL PE  
FL REG # 43922