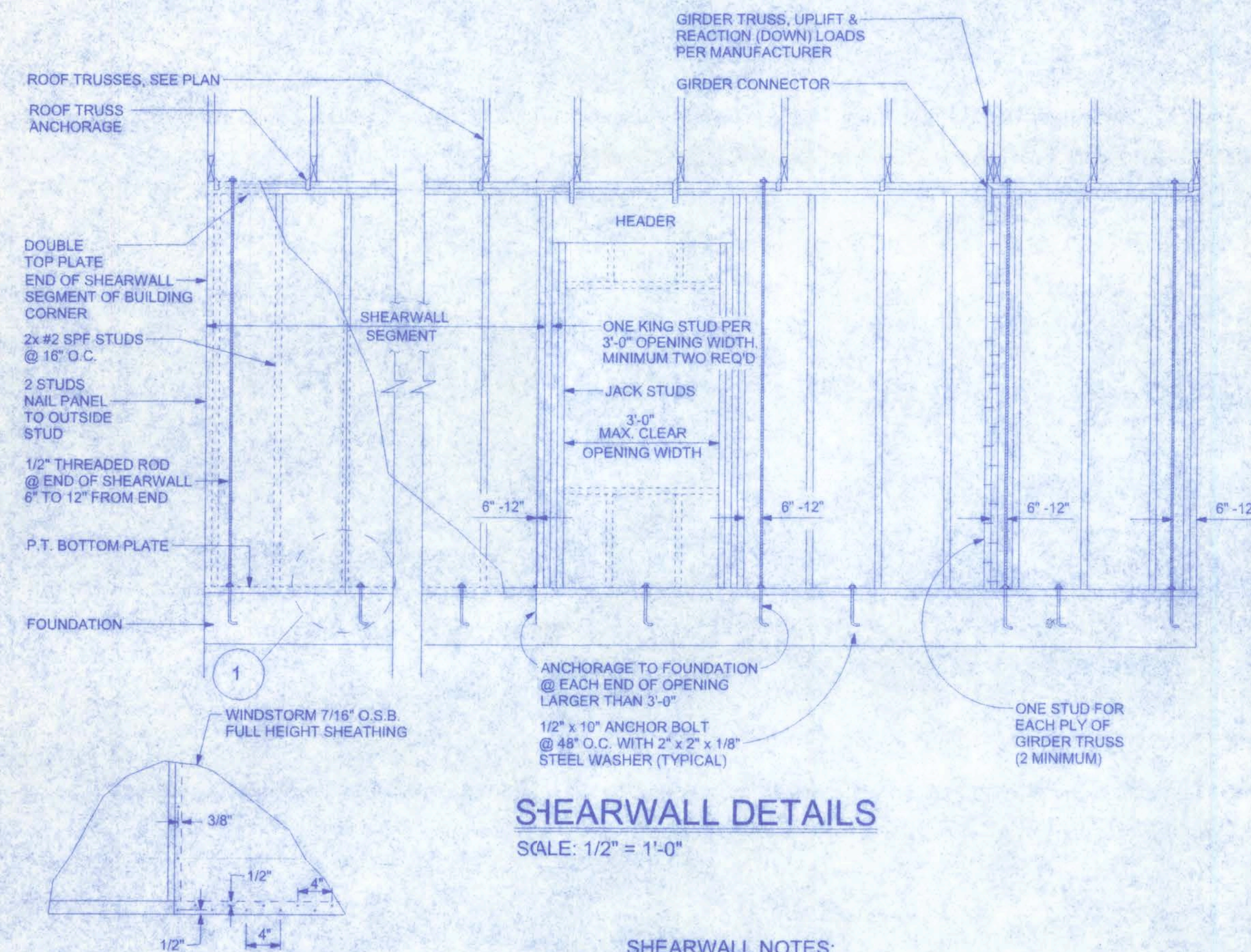


#266/6



### SHEARWALL DETAILS

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

### DOUBLE NAIL EDGE SPACING TOP AND BOTTOM PLATE

UPLIFT CAPACITY = 474 plf  
(TABLE 305S1 SSTD10-99)

#### RULES:

1. One all-thread rod at each corner.
2. One all-thread rod at each end of shearwall.
3. One all-thread rod at each end of opening headers greater than 3'-0".
4. Check sub-sheathing to top plate connection for horizontal transfer capability.
5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf.
6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

| ALLOWABLE VALUES                                |                 |
|-------------------------------------------------|-----------------|
| Connection Type                                 | Allowable Value |
| Foundation / S.Y.P. Top Plate                   | 3840 lbs.       |
| Foundation / Spruce-Pine-Fir Top Plate          | 3840 lbs.       |
| Lintel or Bond Beam / S.Y.P. Top Plate          | 3840 lbs.       |
| Lintel or Bond Beam / Spruce-Pine-Fir Top Plate | 3840 lbs.       |

#### Placement at slab level:

##### Corners

When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

##### Header ends

When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.

##### Top Connections

Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3x3 washer shall be applied to the top plates and tightened securely.

##### Intermediate Coupler Connections

When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.

##### Retro-fit

In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

##### Sole plate to slab connection

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

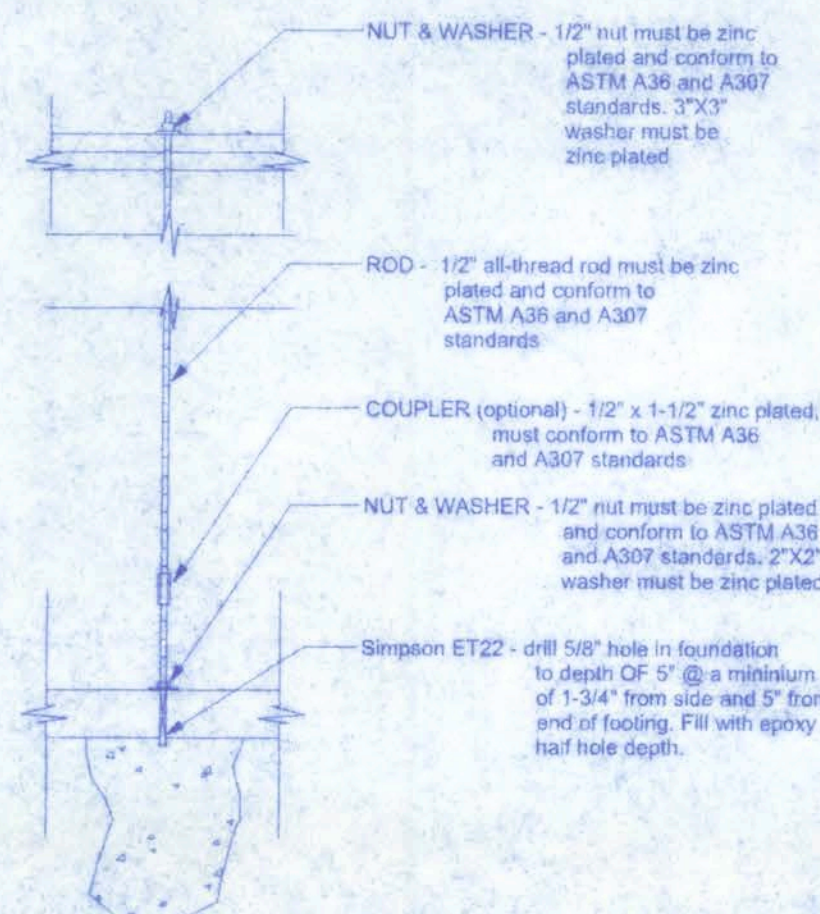
##### System Tightening

On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

#### SHEARWALL NOTES:

1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

| OPENING WIDTH  | SILL PLATES        | 16d TOE NAILS EACH END |
|----------------|--------------------|------------------------|
| UP TO 6'-0"    | (1) 2x4 OR (1) 2x6 | 1                      |
| > 6' TO 9'-0"  | (3) 2x4 OR (1) 2x6 | 2                      |
| > 9' TO 12'-0" | (5) 2x4 OR (2) 2x6 | 3                      |



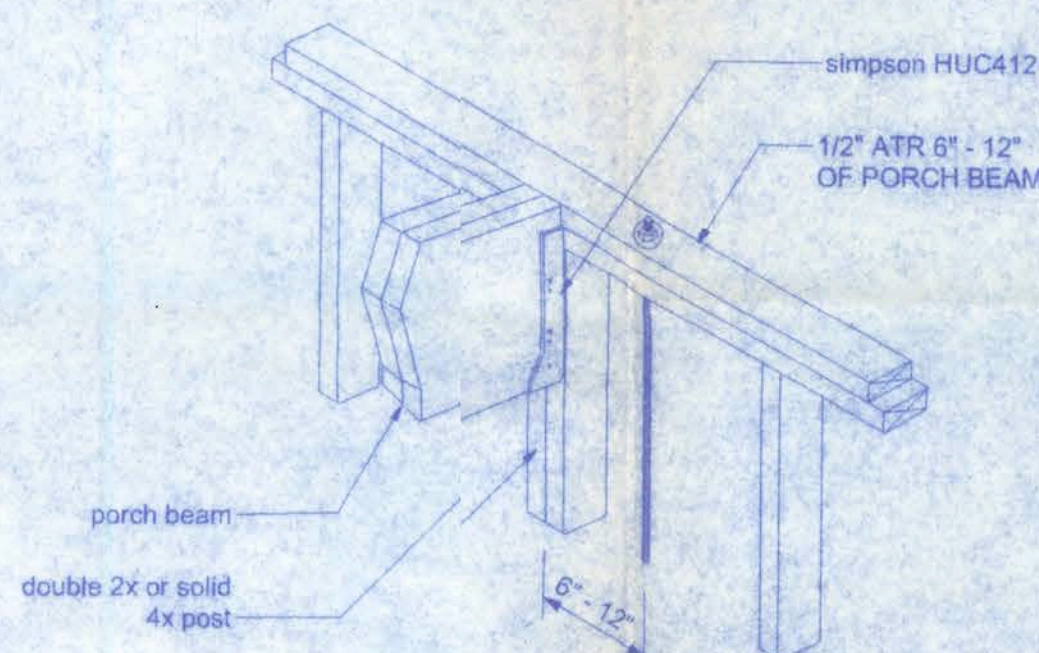
END (TOP OR BOTTOM)

### GIRDER COLUMN DETAIL

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

#### ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

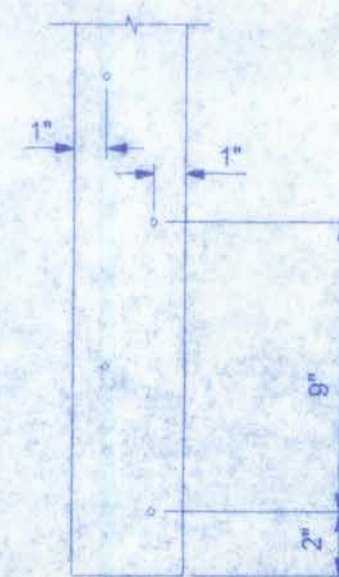
| STRUCTURAL MEMBER                                                                    | ALLOWABLE DEFLECTION |
|--------------------------------------------------------------------------------------|----------------------|
| rafters having slopes greater than 2/12 with no finished ceiling attached to rafters | L/160                |
| interior walls and partitions                                                        | H/180                |
| floors and plastered ceilings                                                        | L/360                |
| all other structural members                                                         | L/240                |
| exterior walls with plaster or stucco finish                                         | H/360                |
| exterior walls - w/ wind loads with brittle finishes                                 | L/240                |
| exterior walls - w/ wind loads with flexible finishes                                | L/120                |



### ALL THREADED @ PORCH BEAM

NTS

NOTE:  
A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED.  
IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM. THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.



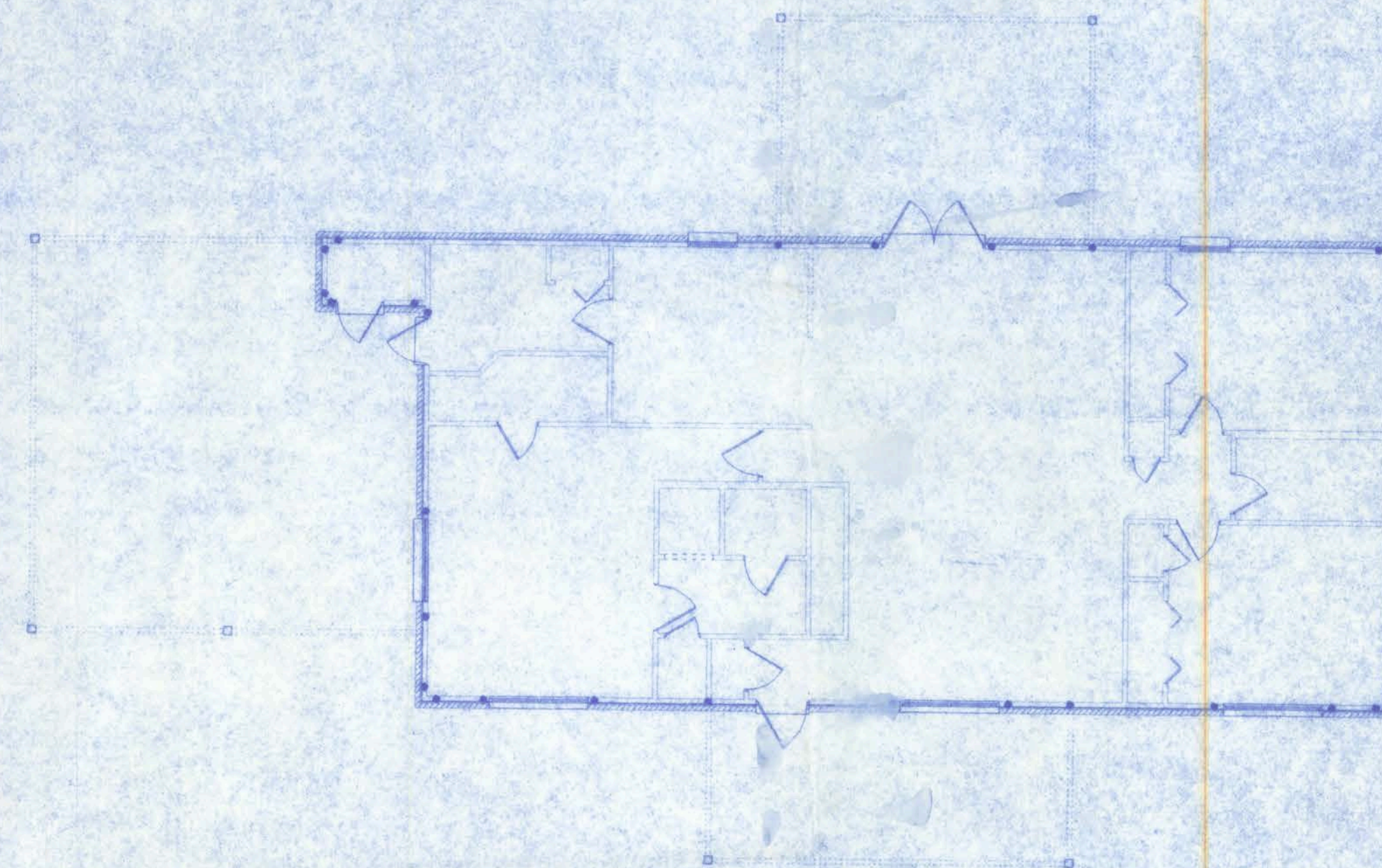
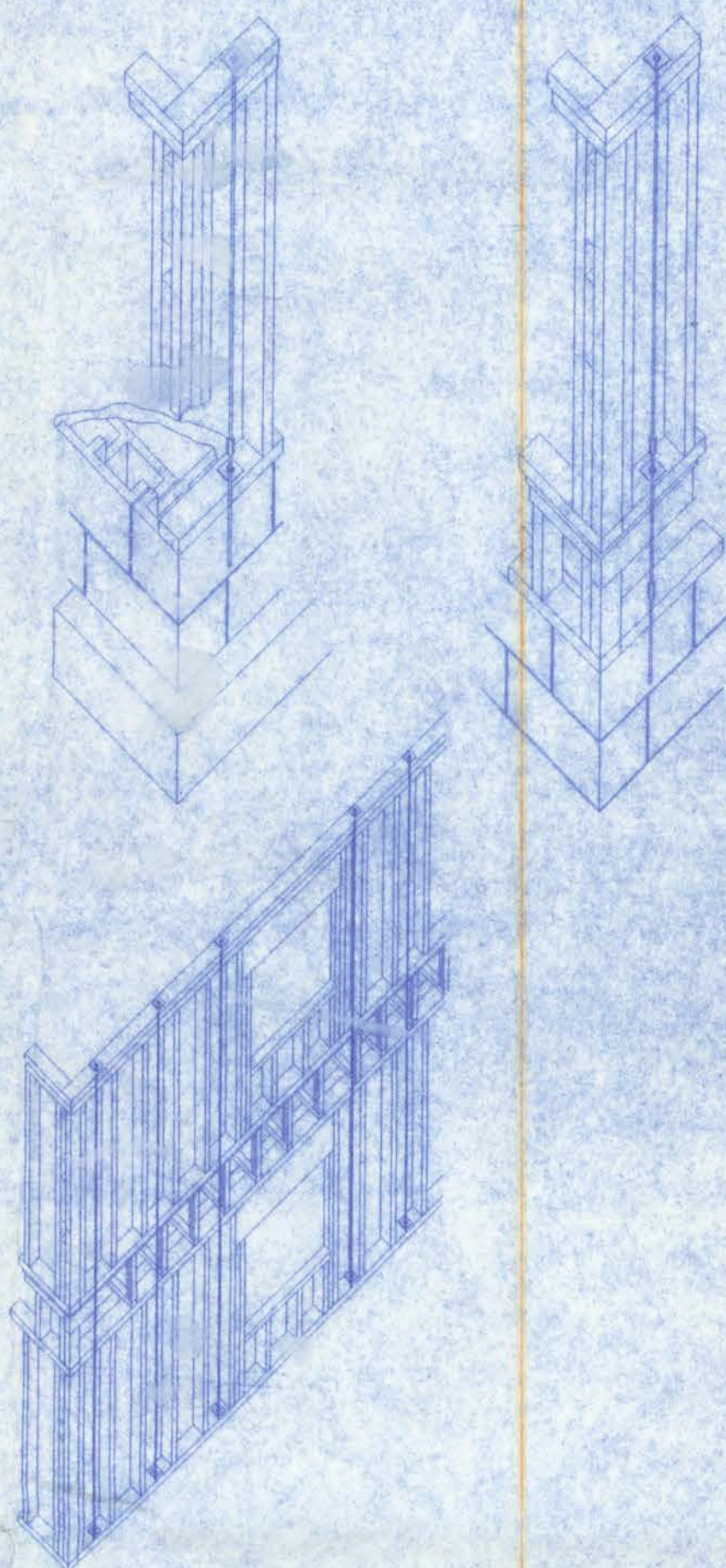
#### OPENING CONNECTION REQUIREMENTS

| CLEAR OPENING WIDTH | HEADER SIZE #2 GRADE OR BETTER  | END BEARING | CONNECTOR AT EACH END OF OPENING | ANCHORAGE TO FOUNDATION @ EACH END OF OPENING |
|---------------------|---------------------------------|-------------|----------------------------------|-----------------------------------------------|
| 0' - 3'             | (2) 2x8                         | 1.5"        | N/A                              | N/A                                           |
| >3' - 6'            | (2) 2x10                        | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >6' - 9'            | (2) 2x12                        | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >9' - 12'           | (2) 1 3/4" x 11 1/4" LVL - 2.0E | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >12' - 15'          | (2) 1 3/4" x 11 1/4" LVL - 2.0E | 3"          | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |
| >15' - 18'          | (2) 1 3/4" x 11 1/4" LVL - 2.0E | 4.5"        | 1/2" ALL THREAD ROD              | 1/2" ALL THREAD ROD                           |

#### NOTE:

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION W/ 2006 REVISIONS.

|                                 |                                                                      |
|---------------------------------|----------------------------------------------------------------------|
| BASIC WIND SPEED                | 110 MPH                                                              |
| IMPORTANCE FACTOR               | 1.0                                                                  |
| BUILDING CATEGORY               | 2                                                                    |
| EXPOSURE                        | B                                                                    |
| INTERNAL PRESSURE               | +/- 0.18                                                             |
| COEFFICIENT                     |                                                                      |
| COMPONENT AND CLADDING PRESSURE | WALLS +21.8/-29.1 PSF<br>ROOF +12.5/-29.1 PSF<br>OVERHANGS -71.6 PSF |
| TYPE OF STRUCTURE               | ENCLOSED                                                             |
| ROOF DEAD LOAD                  | 10 PSF                                                               |
| ROOF LIVE LOAD                  | 20 PSF                                                               |
| FLOOR DEAD LOAD                 | 20 PSF                                                               |
| FLOOR LIVE LOAD                 | 40 PSF                                                               |



• ALL THREAD LOCATION

### SHEARWALL LAYOUT

SCALE: 1/8" = 1'-0"

PETTYJOHN  
RESIDENCE

161 NW MADISON STREET  
SUITE # 102  
LAKE CITY, FL 32055  
(386) 556-4209



Freeman  
Design Group Inc.

DATE 12/21/07  
DRAWN BY W.H.F.

REVISIONS

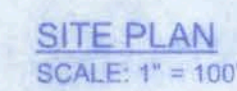
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OF 1

PROJECT NO. 07.R06

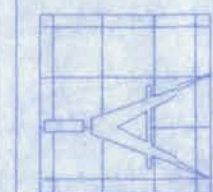
CERTIFICATE OF AUTHORIZATION # 00000001





10/10/2010 DE #56001

CERTIFICATE OF AUTHORIZATION # 00008701



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Design Group<sup>inc</sup>

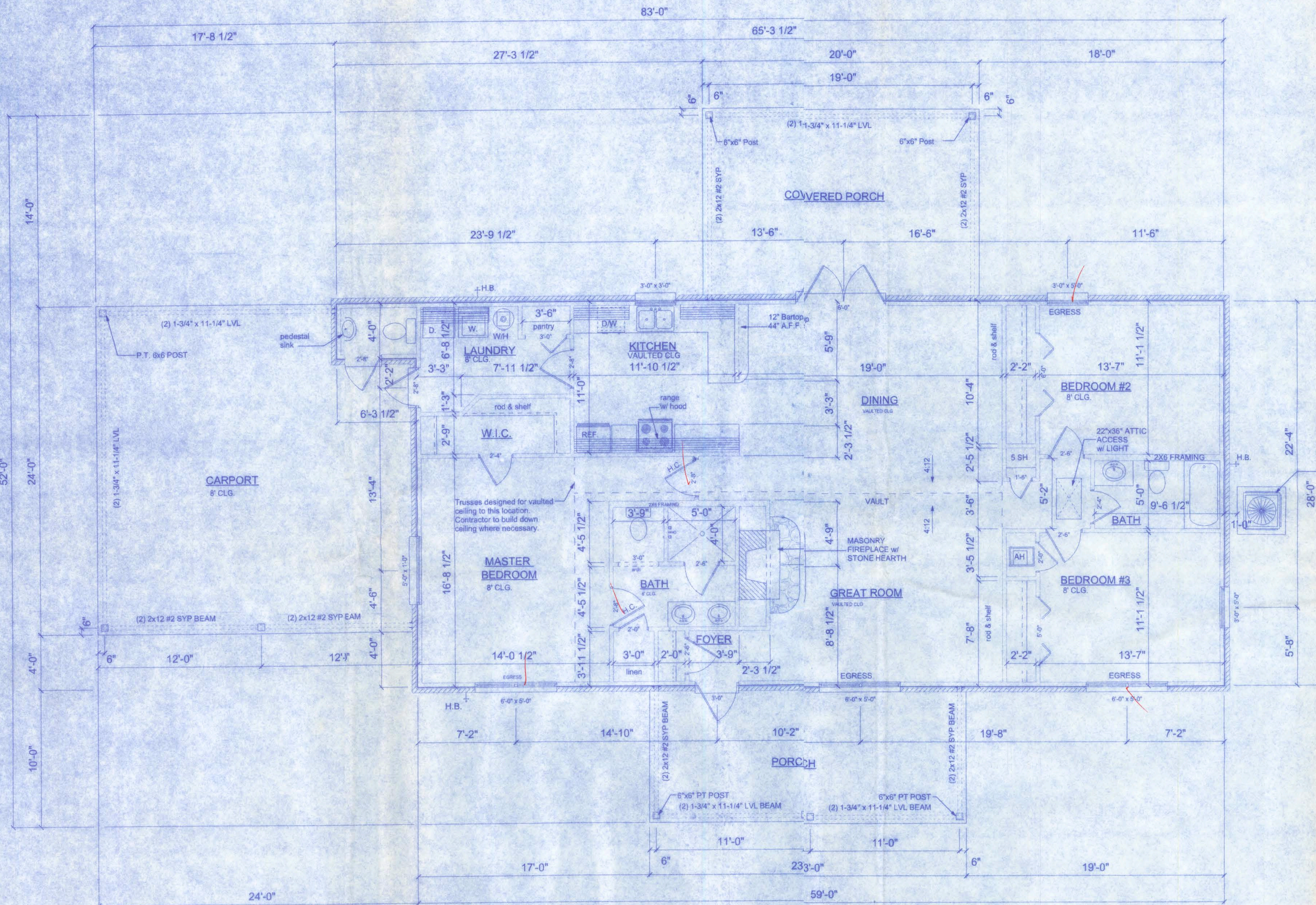
## REVISIONS

OF

07. R069

FILE COPY





| PRODUCT CODE   | WIDTH | HEIGHT | COUNT |
|----------------|-------|--------|-------|
| 32x80 colonial | 5'-0" | 6'-8"  | 2     |
| 36x80 colonial | 3'-0" | 6'-8"  | 1     |
| 5068-2 BF      | 5'-0" | 6'-8"  | 1     |
| 6068-2 BF      | 6'-0" | 6'-8"  | 1     |
| 2068           | 2'-0" | 6'-8"  | 2     |
| 2468           | 2'-4" | 6'-8"  | 2     |
| 2668           | 2'-6" | 6'-8"  | 2     |
| 2868           | 2'-8" | 6'-8"  | 4     |
| 72x80 FRENCH   | 6'-0" | 6'-8"  | 1     |
| 2668           | 2'-6" | 6'-8"  | 1     |
| 36x36          | 5'-0" | 1'-0"  | 1     |
| (2) SH 3050    | 6'-0" | 5'-0"  | 3     |
| SH 3030        | 3'-0" | 3'-0"  | 1     |
| SH 3050        | 3'-0" | 5'-0"  | 2     |

HVAC UNITS SHALL BE MOUNTED TO CONCRETE PAD W/ #14 SCREWS W/ GASKETED WASHERS, (3) PER SIDE

NOTE: CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

#### GENERAL NOTES:

- THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
- THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
- AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
- THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
- ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
- ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

#### AREA SUMMARY

|             |            |
|-------------|------------|
| MAIN LIVING | 1,756 S.F. |
| CARPORT     | 538 S.F.   |
| PORCHES     | 480 S.F.   |
| TOTAL:      | 2,764 S.F. |

#### FLOOR PLAN

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

NOTE: EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY, TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWDA 101/IS2 2/97

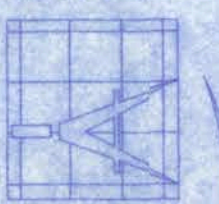
THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

NOTE: CONDENSATE LINES AND ROOF DOWN SPOUTS SHALL DISCHARGE AT LEAST ONE FOOT AWAY FROM THE STRUCTURE SIDEWALL. IN CASES WHERE THE ROOF EAVE IS LESS THAN 6 INCHES, GUTTERS MUST BE INSTALLED AND DIRECT WATER A MINIMUM OF 1 FOOT FROM THE STRUCTURE.

NOTE: APPLIANCES LOCATED IN PRIVATE GARAGES SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 6 FEET ABOVE THE FLOOR EXCEPT WHERE THE APPLIANCE IS PROTECTED FROM MOTOR VEHICLE IMPACT. EQUIPMENT AND APPLIANCES HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18" ABOVE THE FLOOR.

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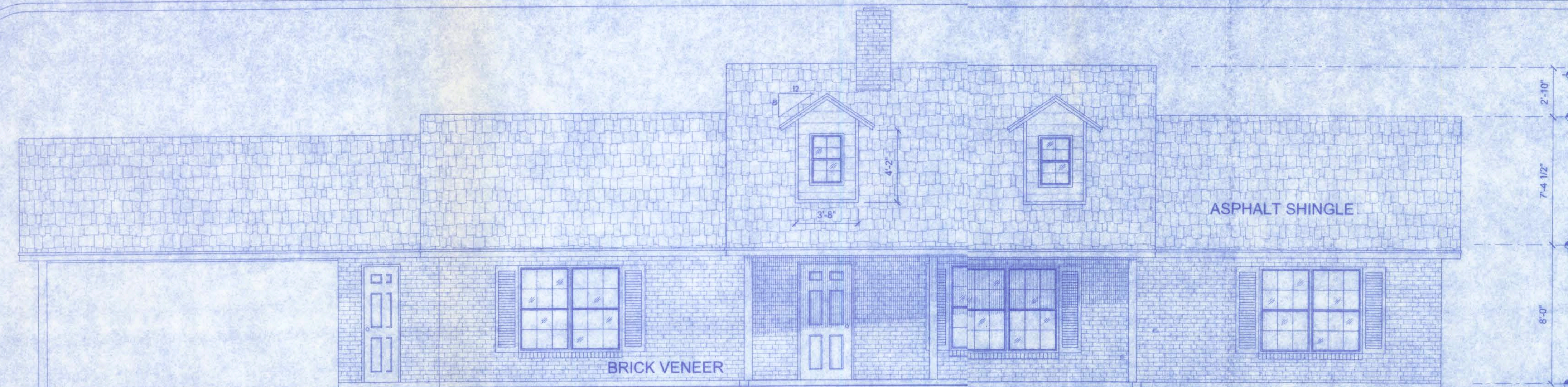


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Design Group

|             |          |
|-------------|----------|
| DATE        | DRAWN BY |
| 12/21/07    | W.H.F.   |
| REVISIONS   |          |
| SHEET       | A-1      |
| OF          | 6        |
| PROJECT NO. |          |
| 07.R069     |          |

CERTIFICATE OF AUTHORIZATION # 00083701





**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"

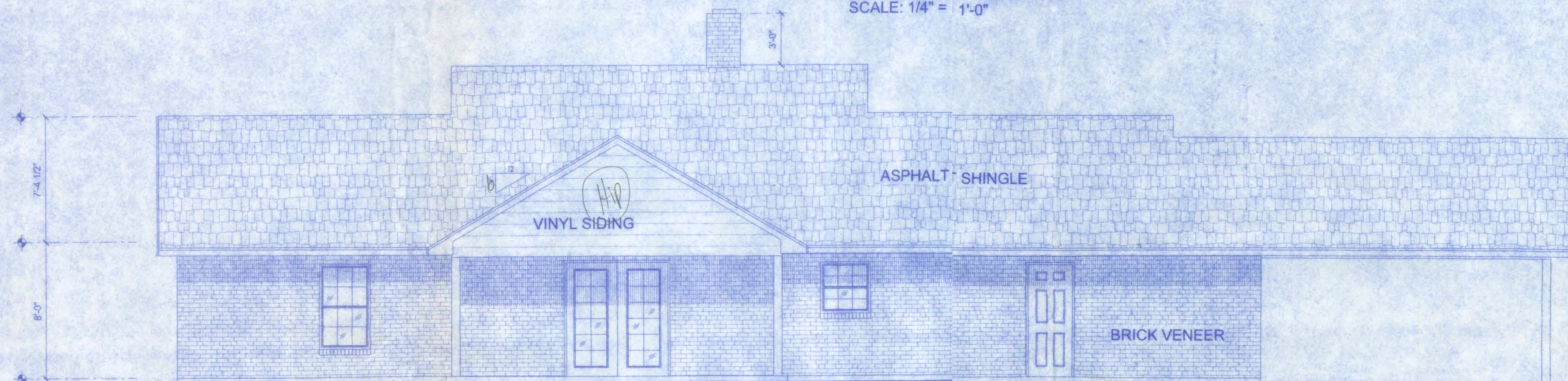
**CONSTRUCTION DOCUMENTS:**  
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

**DO NOT SCALE THESE PLANS:**  
AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

**CHANGES TO PLAN SETS:**  
PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

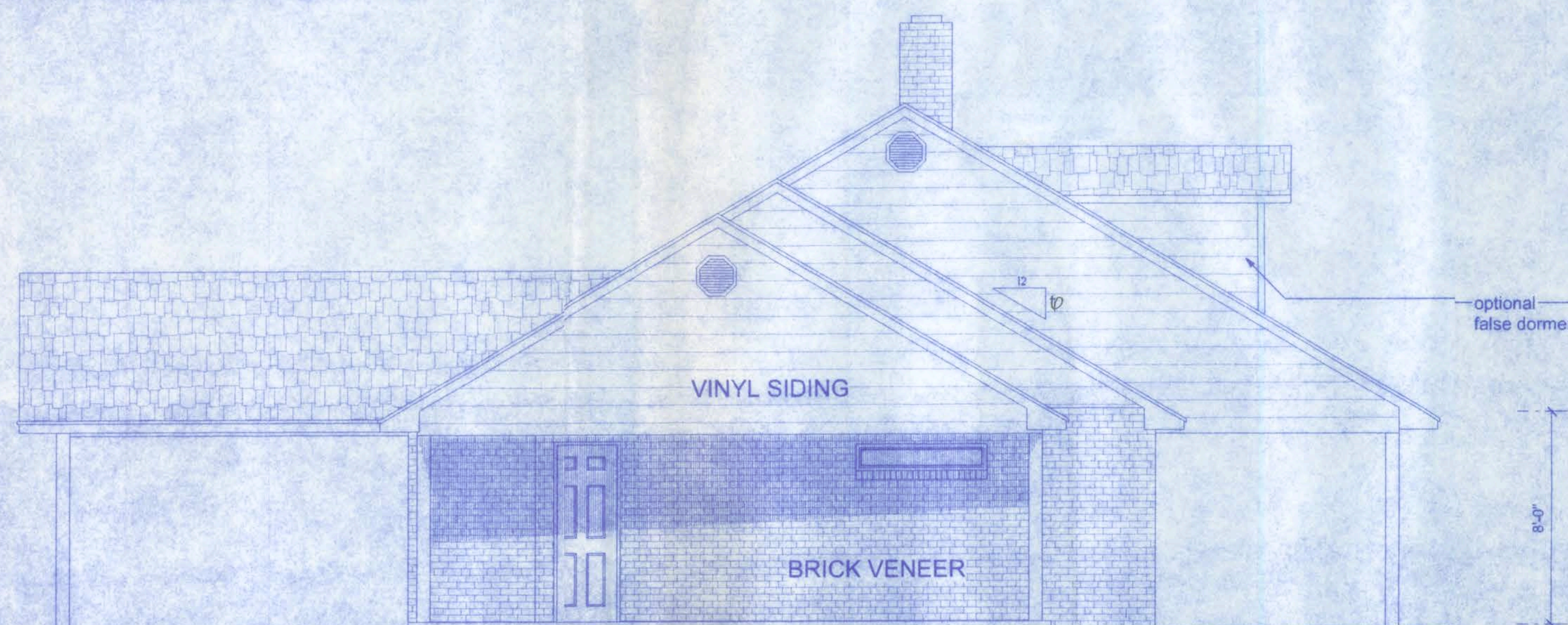
**NOTE:**  
THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF HEIGHT DETERMINATION ONLY. DO NOT USE THIS DIMENSION FOR ROOF CONSTRUCTION.

NOTE: VENTILATE ROOF TO 1/300TH THE INSULATED ATTIC.  
(2764 SF / 300 = 9,213 SF \* 144 SQ. IN./SF = 1,326.72 SQ. IN.)

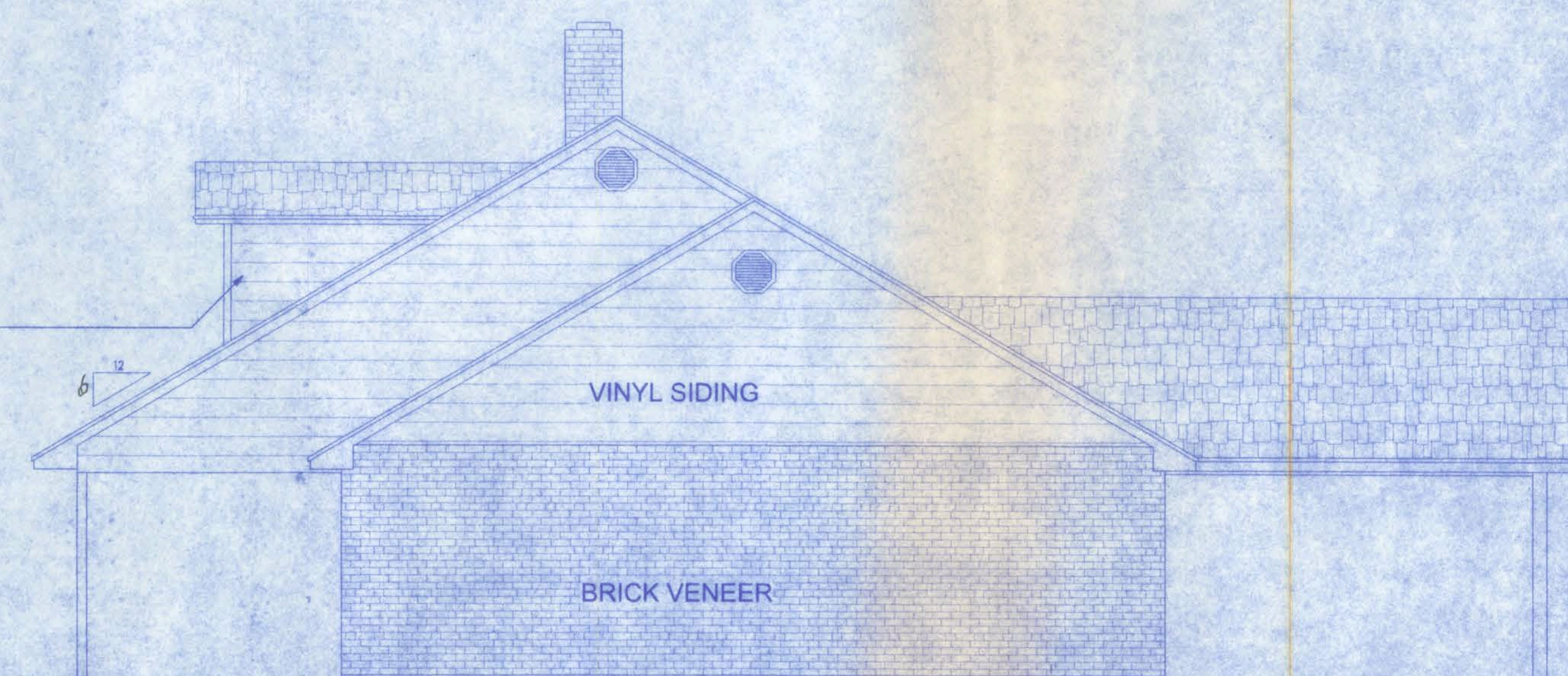


**REAR ELEVATION**  
SCALE: 1/4" = 1'-0"

**NOTE:**  
THE RIDGE HEIGHT IS GIVEN FOR MEAN ROOF HEIGHT DETERMINATION ONLY. DO NOT USE THIS DIMENSION FOR ROOF CONSTRUCTION.



**LEFT ELEVATION**  
SCALE: 1/4" = 1'-0"



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

**PETTYJOHN  
RESIDENCE**

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(386) 758-4209

CERTIFICATE OF AUTHORIZATION # 00008701

**Freeman  
Design Group, Inc.**

DATE: 1/21/07  
DRAWN BY: W.H.F.

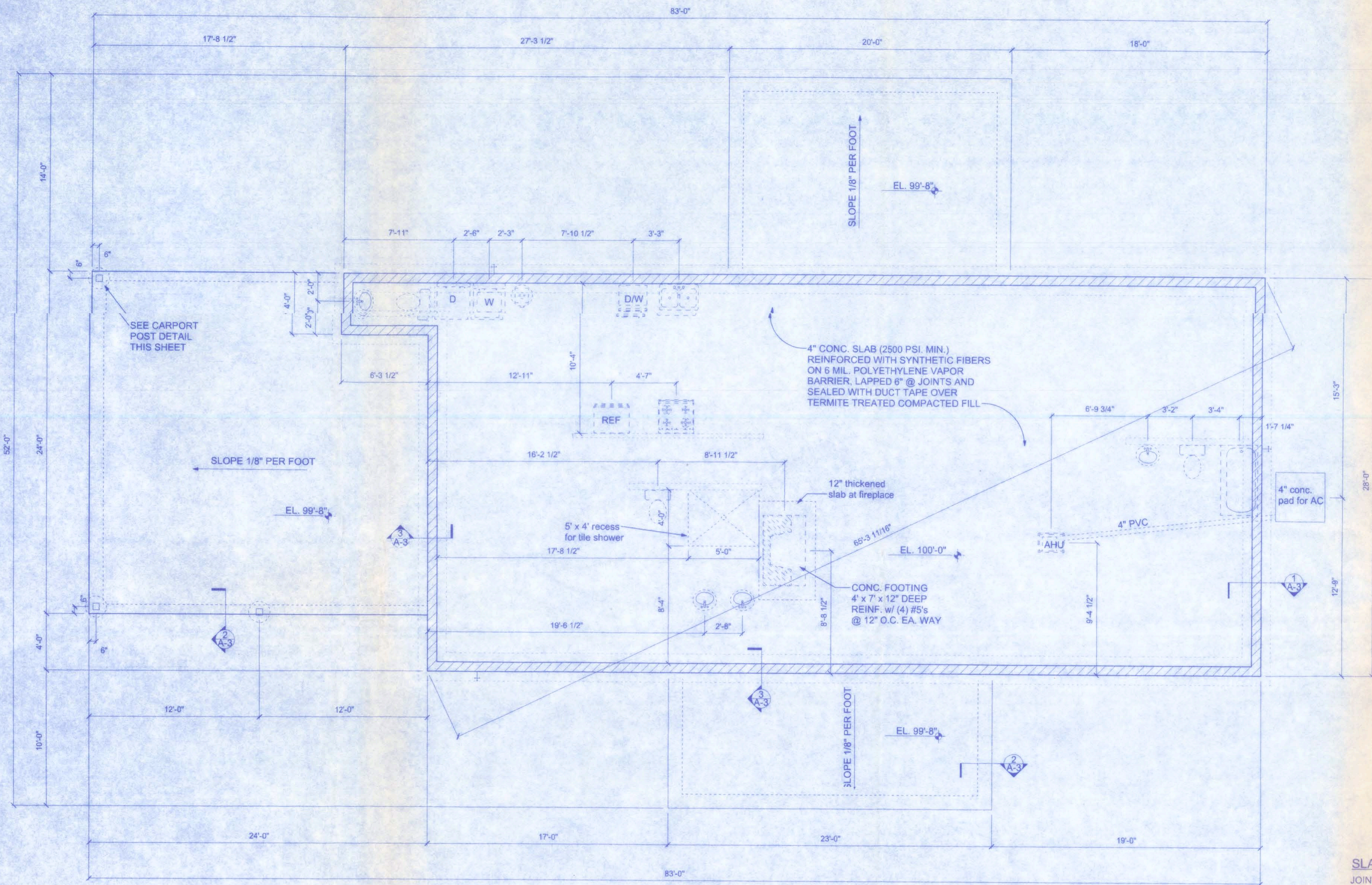
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SHEET: A-2

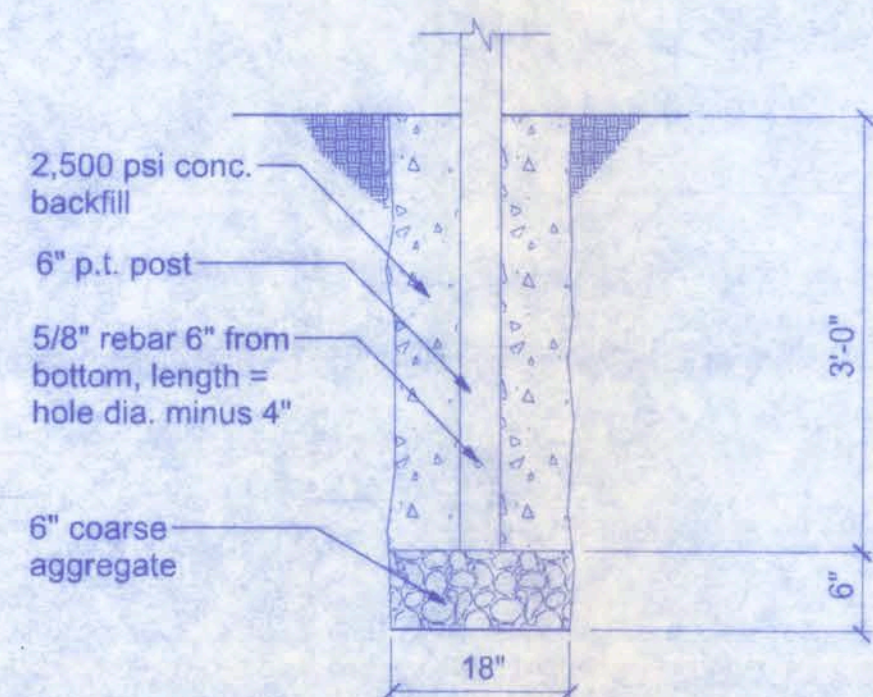
OF: 6

PROJECT NO.  
07R089





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



**POST @ CARPORT DETAIL**  
SCALE: 3/4" = 1'-0"

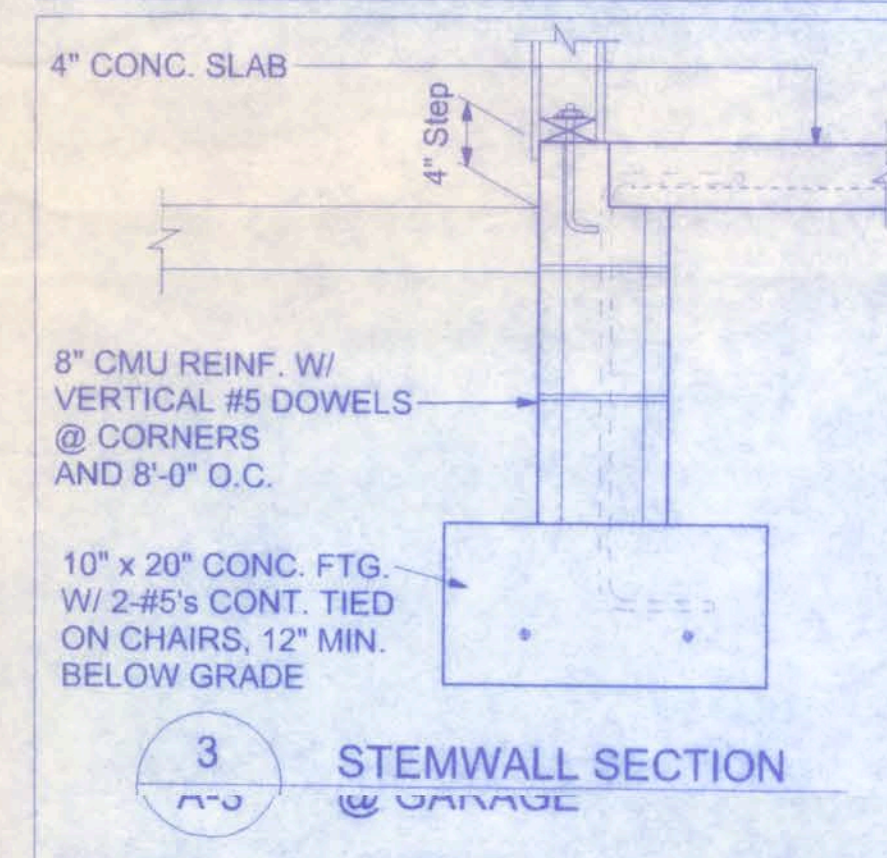
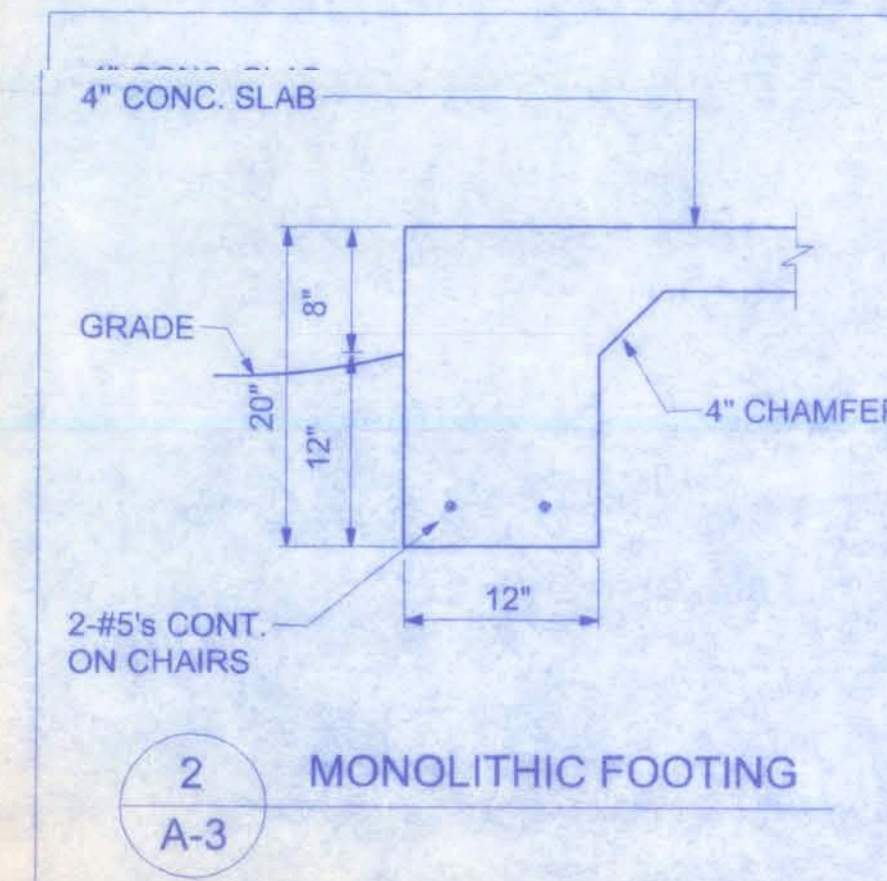
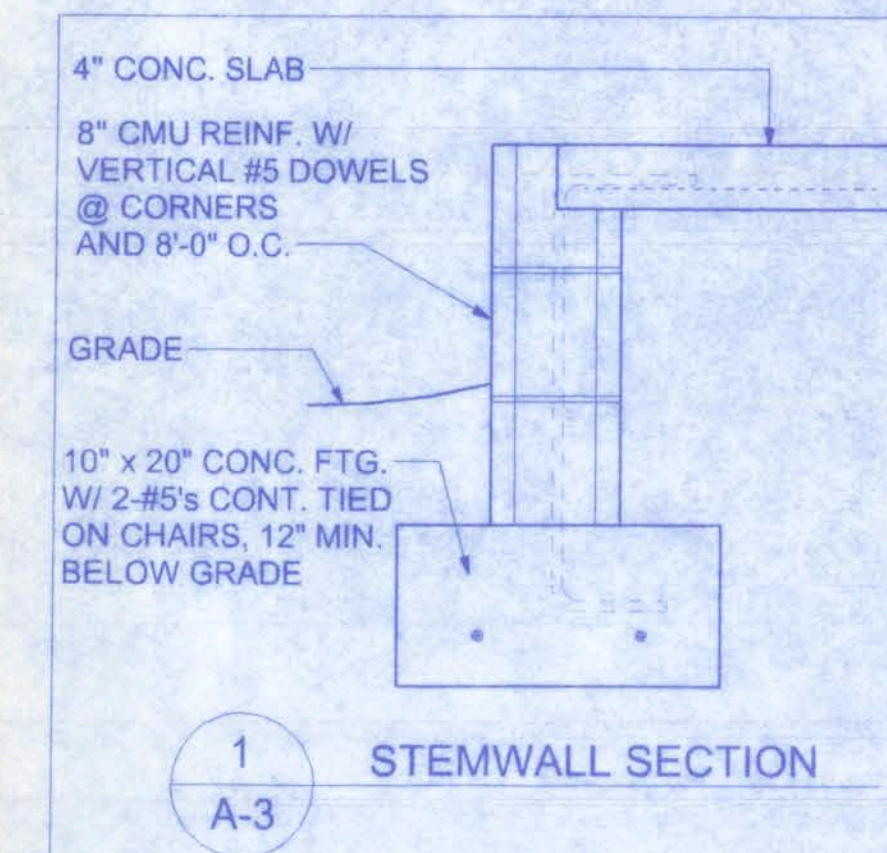
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:  
1. ALL REINFORCEMENT IS BENT COLD.  
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND  
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.  
EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

COVER OVER REINFORCING STEEL  
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE:  
3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.

**GALVANIZATION:**  
METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

**CONCRETE:**  
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

**REINFORCING STEEL:**  
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

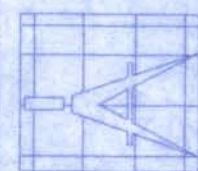


**SLAB REQUIREMENTS**

JOINTS ARE NOT REQUIRED IN UNREINFORCED PLAIN CONCRETE SLABS ON GROUND OR IN SLABS FOR ONE AND TWO FAMILY DWELLINGS COMPLYING WITH ONE OF THE FOLLOWING:

1. CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 1/2 INCH TO 2 INCHES IN LENGTH. DOSAGE AMOUNTS SHALL BE FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1116. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY THE BUILDING OFFICIAL, OR.
2. CONCRETE SLABS ON GROUND CONTAINING 6x6 W1.4 x W1.4 WELDED WIRE REINFORCEMENT FABRIC LOCATED IN THE MIDDLE TO THE UPPER 1/3 OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIAL OR SUPPORTS AT SPACING NOT TO EXCEED 3 FT OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION. WELDED PLAIN WIRE REINFORCEMENT FABRIC FOR CONCRETE SHALL CONFORM TO ASTM A 185, STANDARD SPECIFICATION FOR STEEL WELDED WIRE REINFORCEMENT FABRIC, PLAIN, FOR CONCRETE REINFORCEMENT.

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**Freeman**  
Design Group, Inc.

DATE  
12/21/07

DRAWN BY  
W.H.F.

REVISIONS

SHEET A-3

OF 6

PROJECT NO.  
07.R0069

**PETTY, JOHN**  
**RESIDENCE**

12/21/07  
PE #0001



W.H.H. Inc.  
12/26/07  
PE 55001

PETTYJOHN  
RESIDENCE

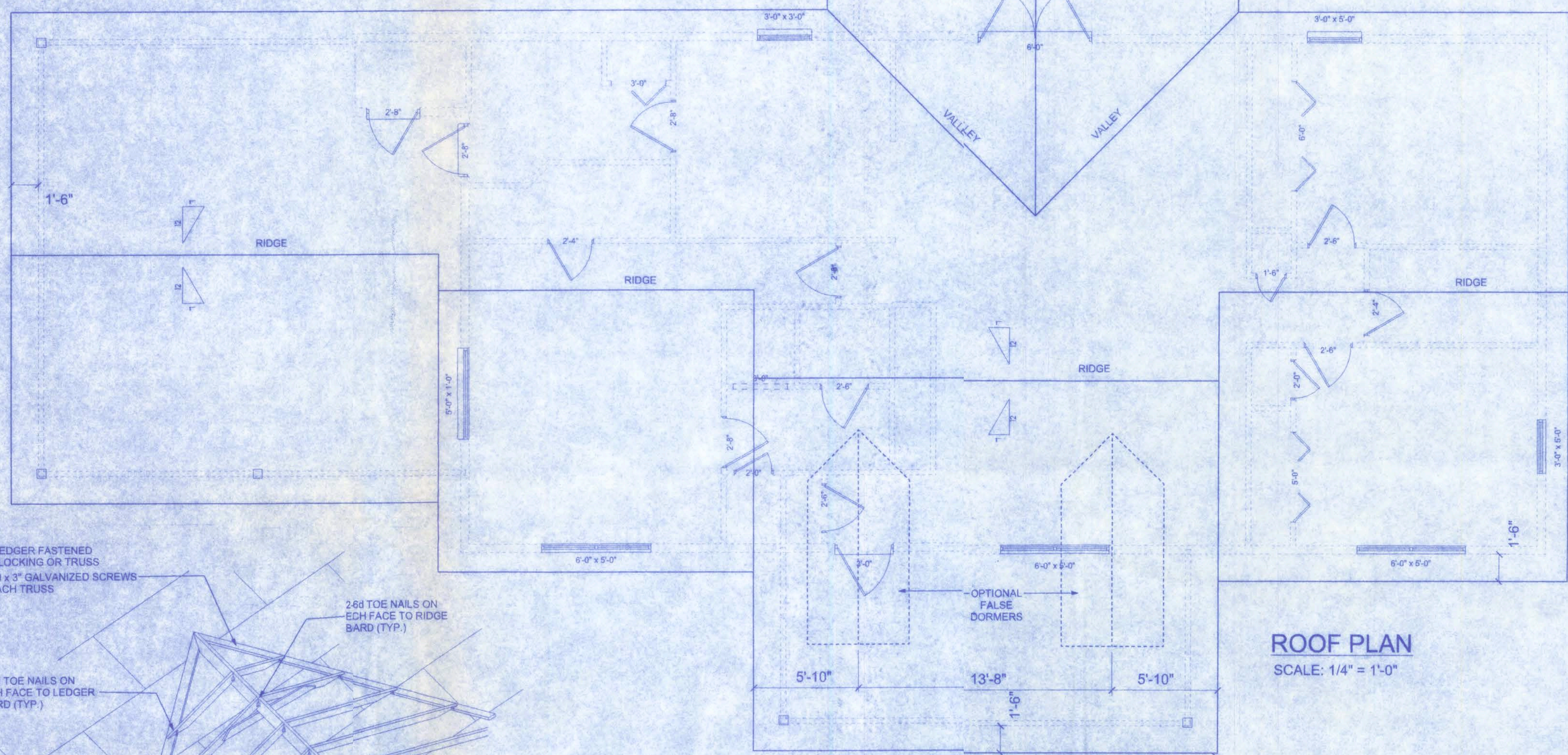
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CERTIFICATE OF AUTHORIZATION # 00008701

Freeman  
Design Group, Inc.

DATE 12/21/07 DRAWN BY W.H.F.  
REVISIONS  
SHEET A-4  
OF 6  
PROJECT NO. 07 R069

ROOF SHEATHING FASTENINGS

| NAILING ZONE | SHEATHING TYPE | FASTENER                                        | SPACING                                                                      |
|--------------|----------------|-------------------------------------------------|------------------------------------------------------------------------------|
| 1            | 1/2" O.S.B.    | 8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS | 6 in. c. EDGE<br>12 in. c. FIELD                                             |
| 2            |                |                                                 | 6 in. c. EDGE<br>6 in. c. FIELD                                              |
| 3            |                |                                                 | 4 in. o.c. (GABLE ENDWALL OR GABLE TRUSS)<br>6 in. c. EDGE<br>6 in. c. FIELD |



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

DECK REQUIREMENTS:  
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:  
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DOUBLE UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:  
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:  
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES:  
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:  
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:  
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:  
FOR ROOF SLOPES FROM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:  
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

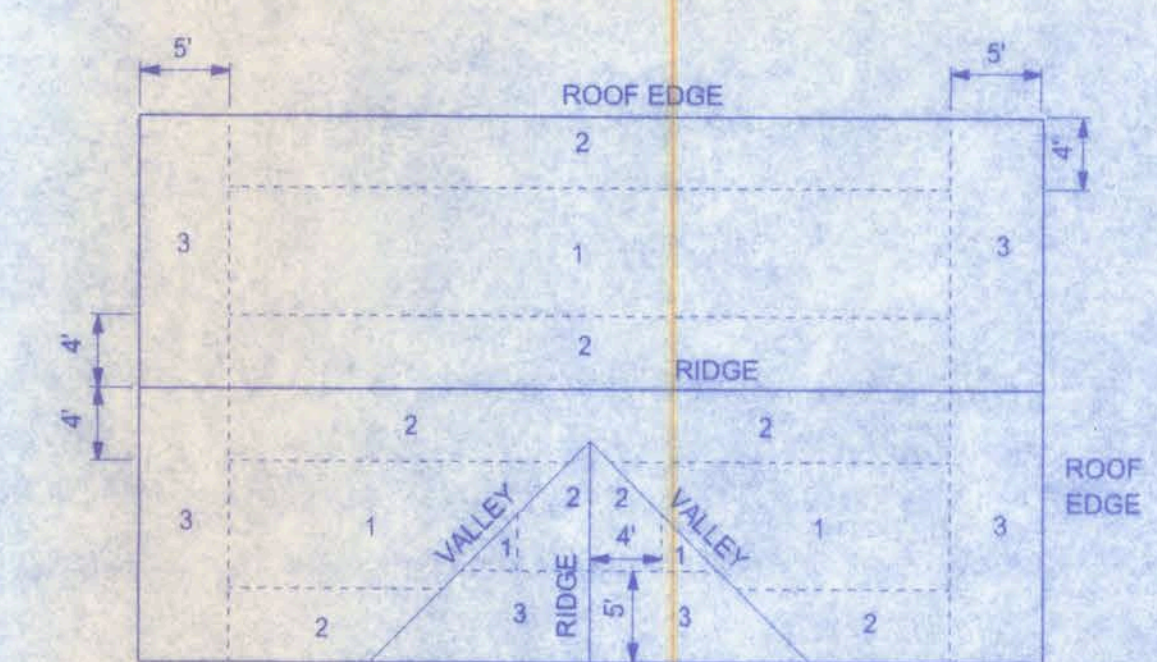
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:  
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

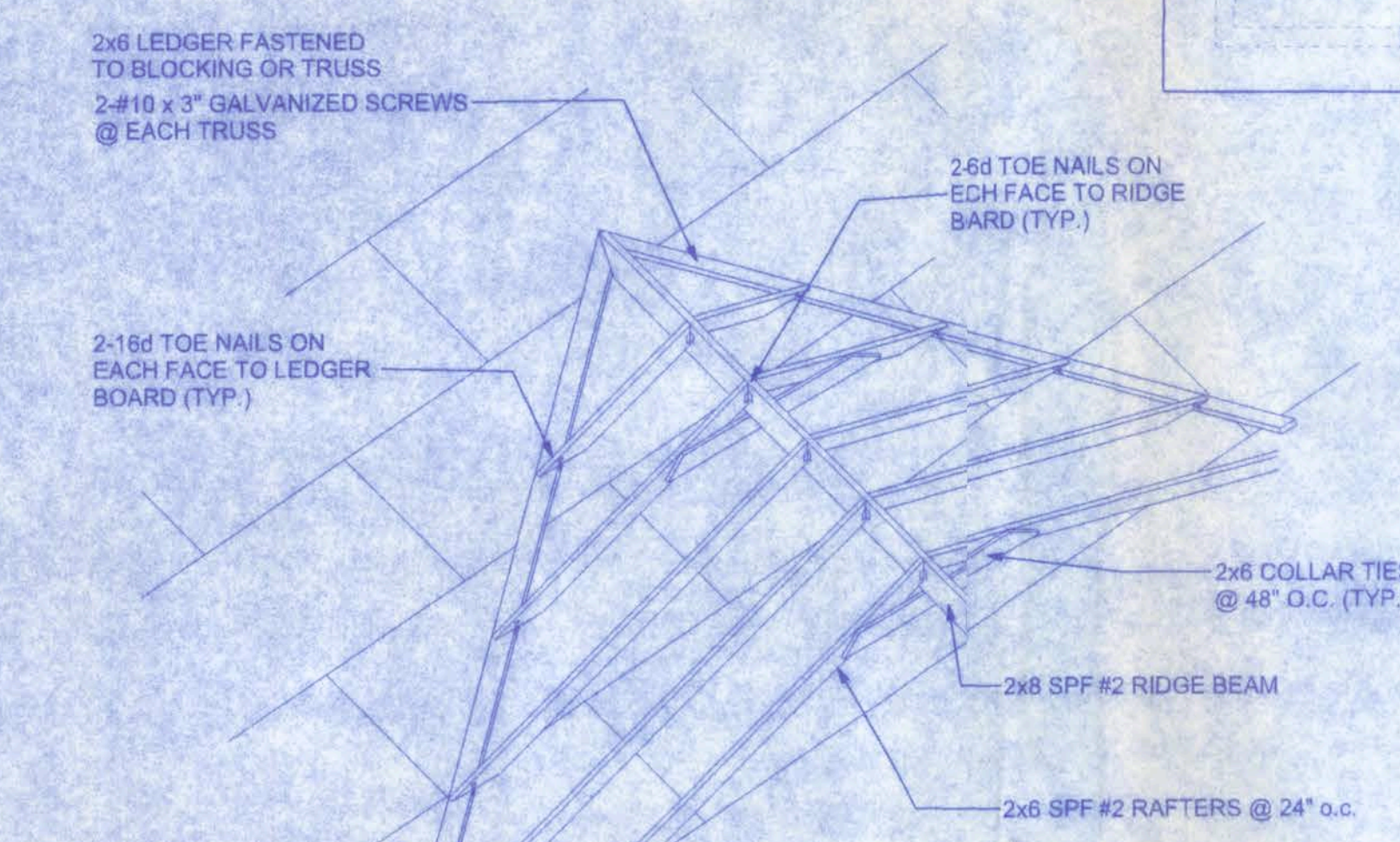
VALLEYS:  
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:

1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:  
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.  
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.  
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.



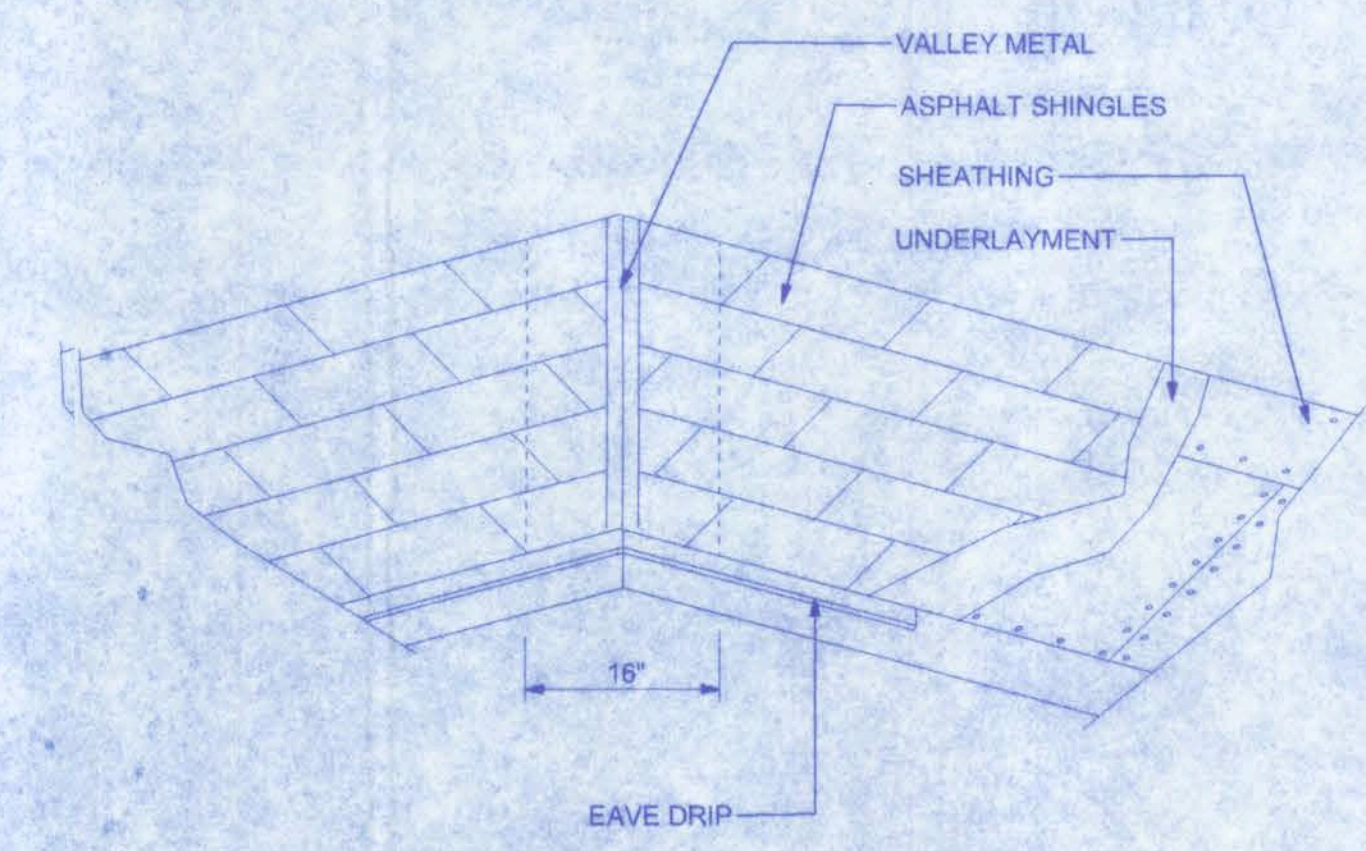
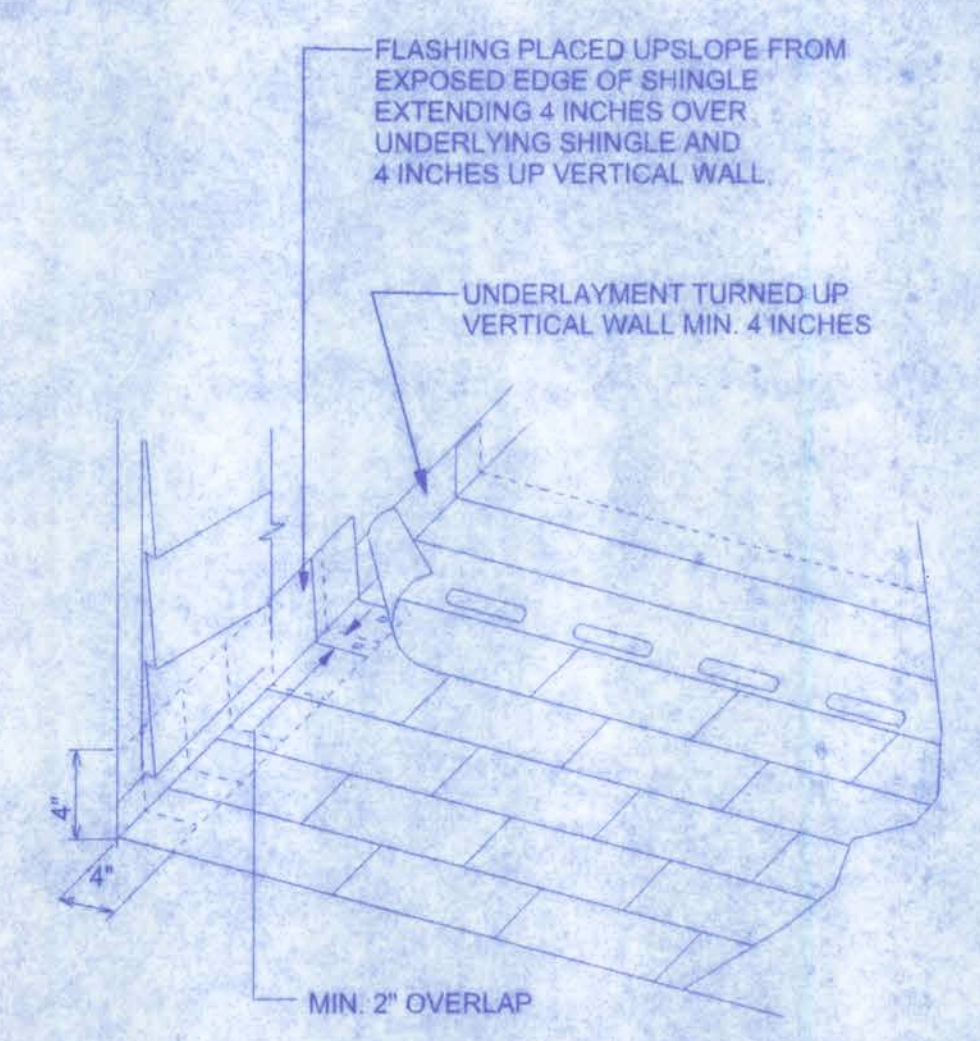
ROOF SHEATHING NAILING ZONES  
(GABLE ROOF)

| MATERIAL                      | MINIMUM THICKNESS (in) | GAGE                 | WEIGHT (LB) |
|-------------------------------|------------------------|----------------------|-------------|
| COPPER                        |                        |                      | 1           |
| ALUMINUM                      | 0.024                  |                      |             |
| STAINLESS STEEL               |                        | 28                   |             |
| GALVANIZED STEEL              | 0.0179                 | 26 (ZINC COATED G90) |             |
| ZINC ALLOY LEAD PAINTED TERNE | 0.027                  |                      | 2 1/2 20    |

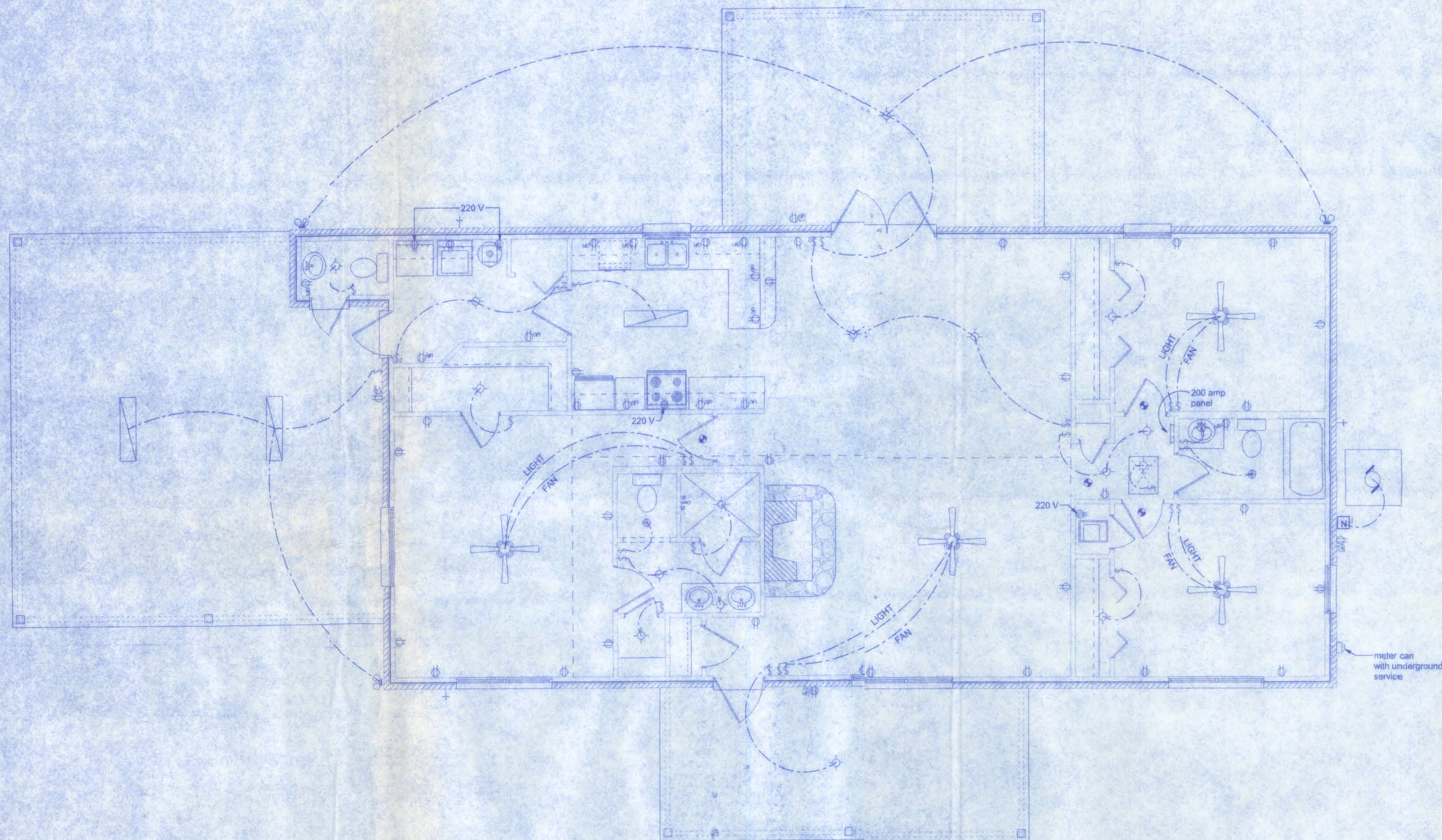


ROOF INTERSECTION CONNECTION DETAIL

| CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE |              |              |                       |              |
|----------------------------------------|--------------|--------------|-----------------------|--------------|
| CONNECTOR                              | TRUSS        | TOP PLATE    | UPLIFT PROVIDED       | MANUFACTURER |
| H2.5                                   | 5-8d NAILS   | 5-8d NAILS   | 365 LBS               | SIMPSON      |
| H10                                    | 8-8d NAILS   | 8-8d NAILS   | 850 LBS               | SIMPSON      |
| MTS12                                  | 7-10d NAILS  | 7-10d NAILS  | 1,000 LBS             | SIMPSON      |
| H16                                    | 2-10d NAILS  | 10-10d NAILS | 1,300 LBS             | SIMPSON      |
| (2)HTS20                               | 10-10d NAILS | 10-10d NAILS | 2 x 1,450 = 2,900 LBS | SIMPSON      |





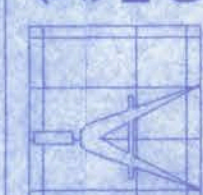


| ELECTRICAL           | COUNT | SYMBOL |
|----------------------|-------|--------|
| ceiling fan          | 4     |        |
| double spotlight     | 3     |        |
| fluorescent fixture  | 3     |        |
| HVAC motor           | 1     |        |
| Meter can            | 1     |        |
| electrical panel     | 1     |        |
| non-fused disconnect | 1     |        |
| 50 cfm exhaust fan   | 2     |        |
| light                | 16    |        |
| outlet               | 30    |        |
| outlet 220v          | 4     |        |
| outlet gfi           | 13    |        |
| smoke detector       | 4     |        |
| switch               | 28    |        |
| switch 3 way         | 4     |        |
| weather proof GFI    | 4     |        |

**NOTE:**  
ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE, 15 AND 20 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

161 NW MADISON STREET  
SUITE # 102  
LAKE CITY, FL 32055  
(386)758-4209

CERTIFICATE OF AUTHORIZATION # 00008701



**Freeman**  
Design Group, Inc.

DATE  
12/2/07

DRAWN BY  
W.H.F.

REVISIONS

SHEET A-5

OF 6

PROJECT NO.  
07.R069

PETTYJOHN  
RESIDENCE

W.H.F.  
12/2/07  
PE 65501



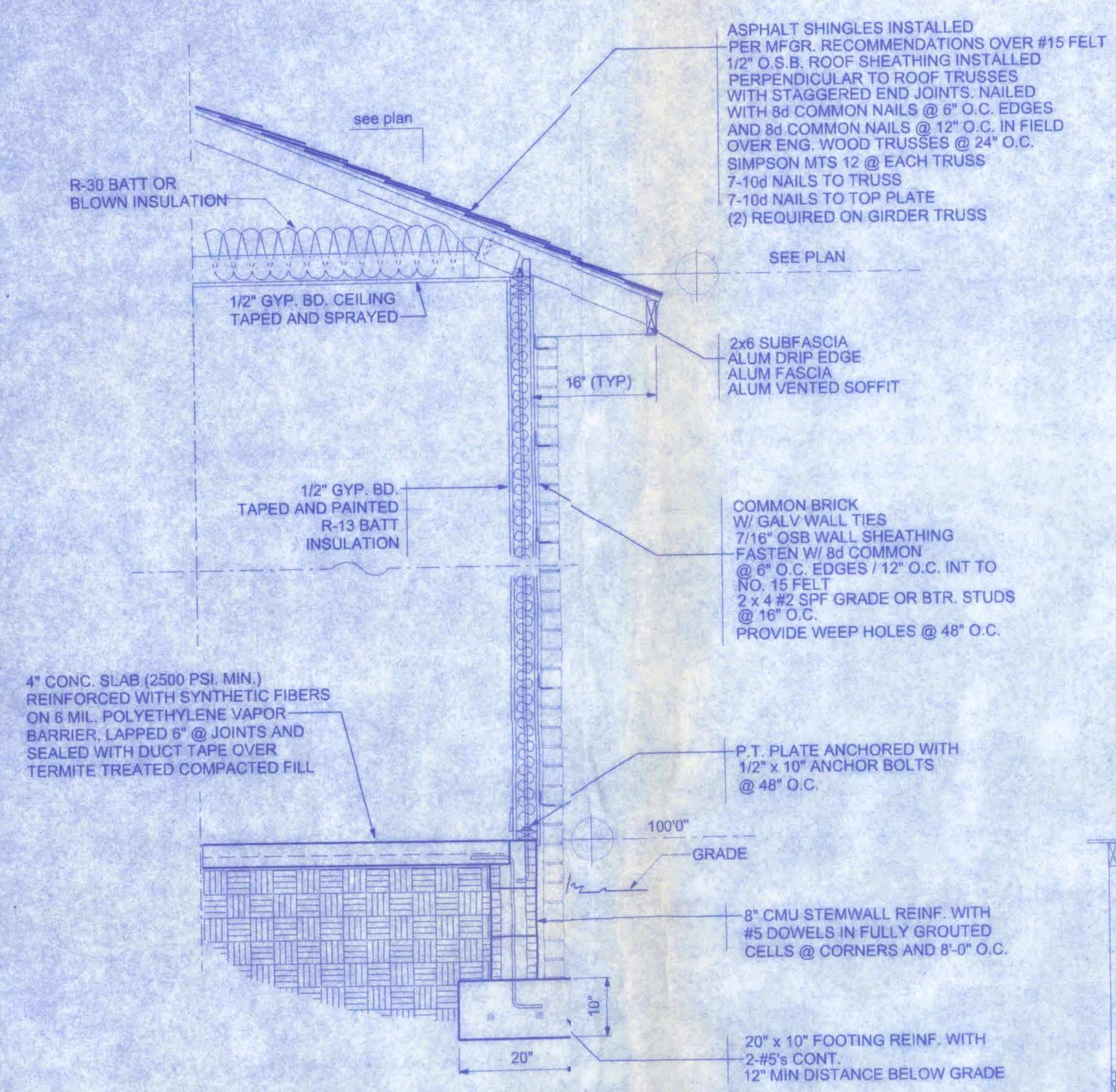
12/24/07  
PE 658001

PETTYJOHN  
RESIDENCE

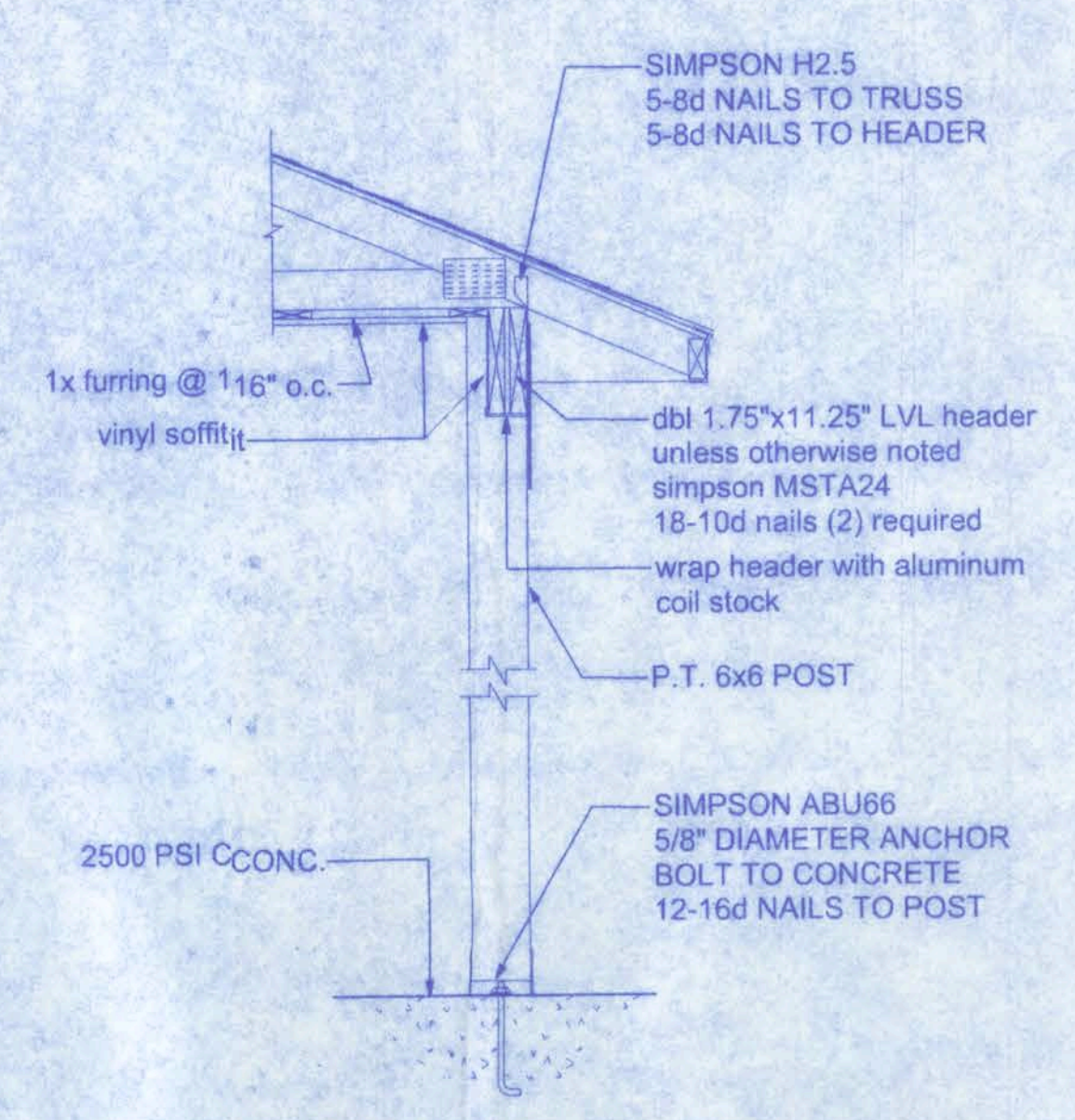
161 NW MADISON STREET  
SUITE # 102  
LAKE CITY, FL 32055  
(386) 758-4209  
CERTIFICATE OF AUTHORIZATION # 00008701



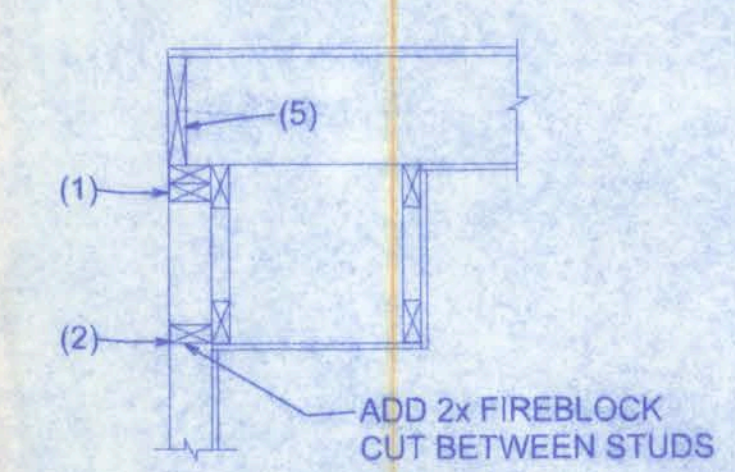
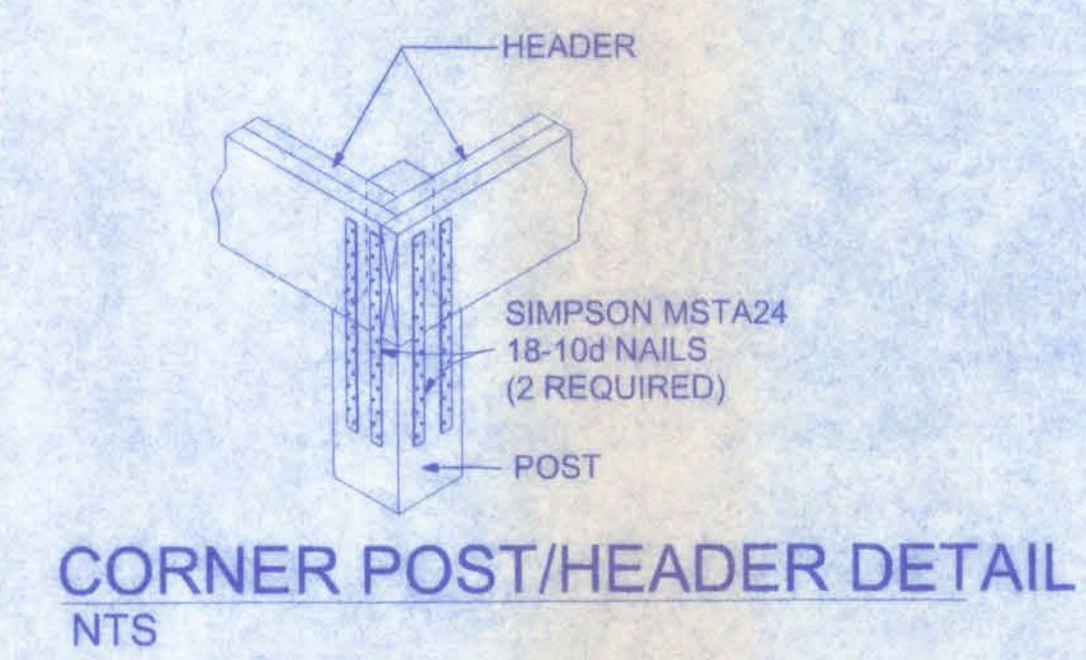
|                        |                    |
|------------------------|--------------------|
| DATE<br>12/21/07       | DRAWN BY<br>W.H.F. |
| REVISIONS              |                    |
| SHEET<br>A-6           | OF<br>6            |
| PROJECT NO.<br>07-R069 |                    |



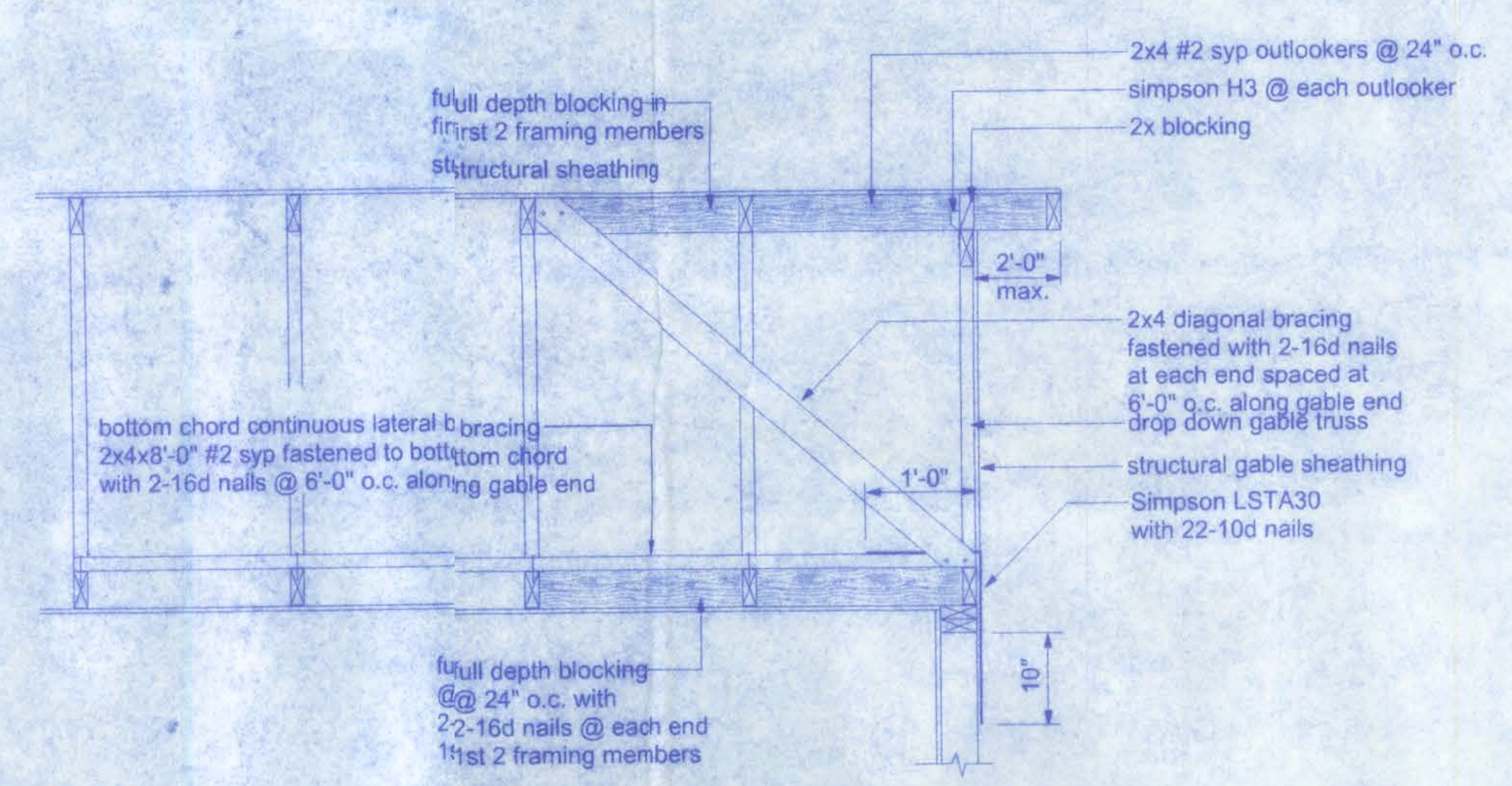
TYPICAL WALL SECTION  
SCALE: 3/4" = 1'-0"



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

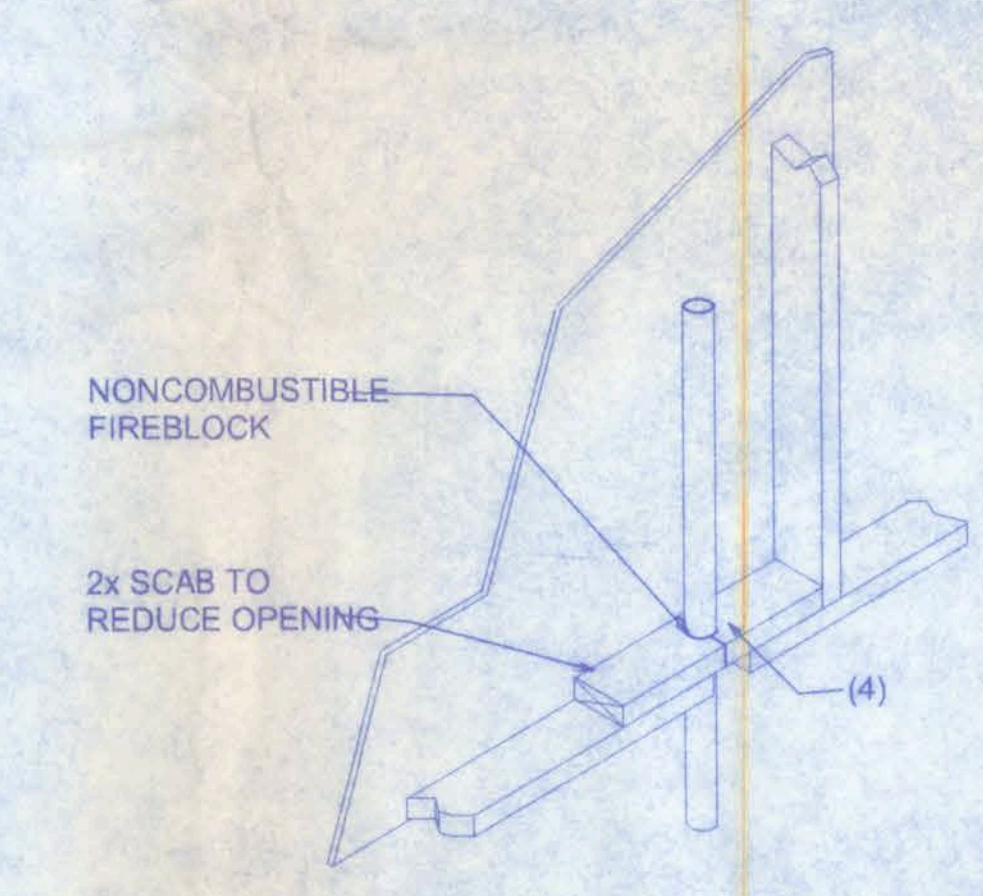


SOFFIT/DROPPED CLG.



END WALL BRACING FOR CEILING DIAPHRAGM  
NTS

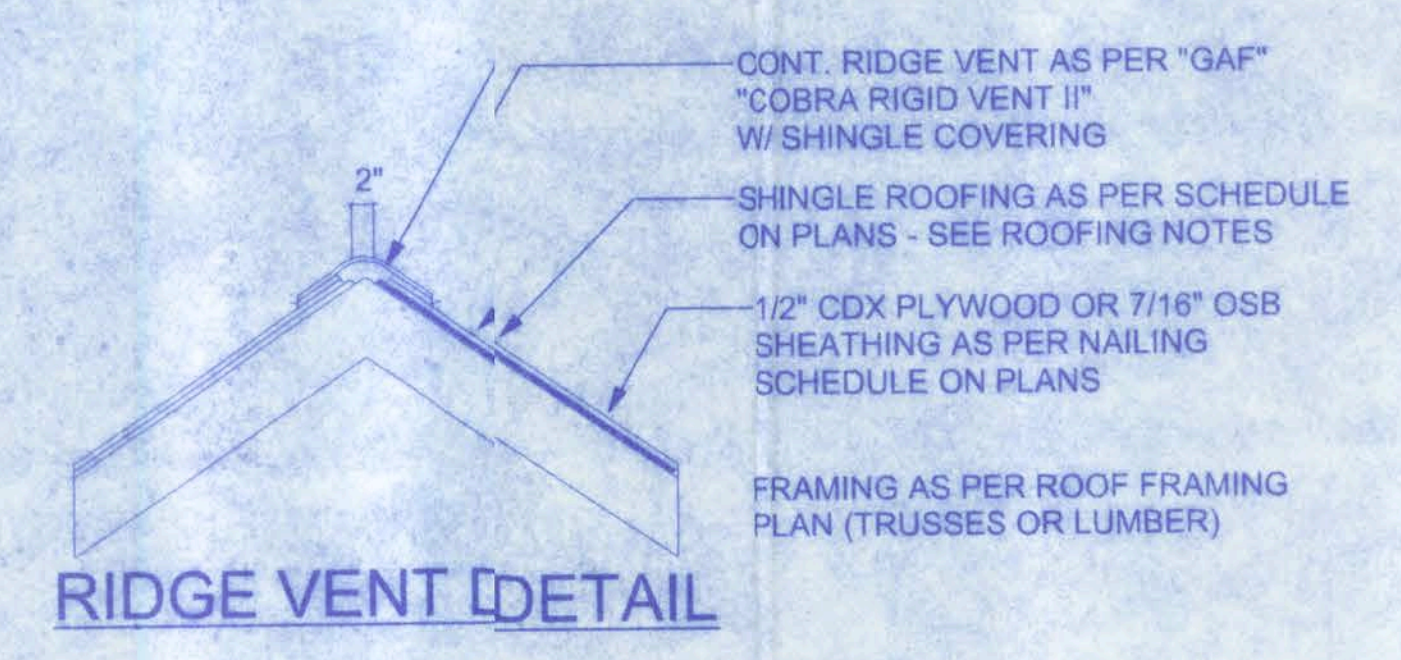
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE



PENETRATIONS

VENTILATION REQUIREMENTS

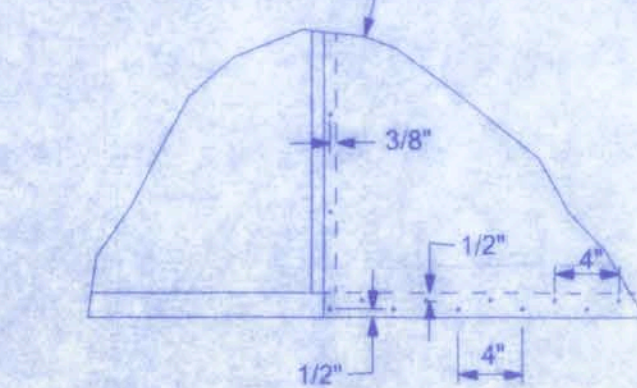
| Total Attic Square Footage | Recommended Length of Cobra Rigid Vent II (Feet) | Minimum Intake Ventilation (Net Free Area in Sq. In.) |
|----------------------------|--------------------------------------------------|-------------------------------------------------------|
| 1600                       | 21                                               | 384                                                   |
| 1900                       | 25                                               | 456                                                   |
| 2200                       | 29                                               | 528                                                   |
| 2500                       | 33                                               | 600                                                   |
| 2800                       | 41                                               | 744                                                   |
| 3100                       | 41                                               | 820                                                   |
| 3400                       | 45                                               | 816                                                   |



FIREBLOCKING NOTES:

- FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
  - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
  - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
  - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROPANEL MULTIFLEX SEALANT
  - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.





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

UPLIFT CAPACITY = 474 plf  
(TABLE 305S1 SSTD10-99)

1. One all-thread rod at each corner.
2. One all-thread rod at each end of shearwalls.
3. One all-thread rod at each end of opening headers greater than 3'-0"
4. Check sub-sheathing to top plate connection for horizontal transfer capacity.
5. If necessary, add all-thread rods to girders individually to exclude the 1m average uplift plf.
6. Check sole plate to slab connection, additional anchors may be require for lateral and shear load transfer.

Placement at slab level:

When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not sit under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.

Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.

When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.

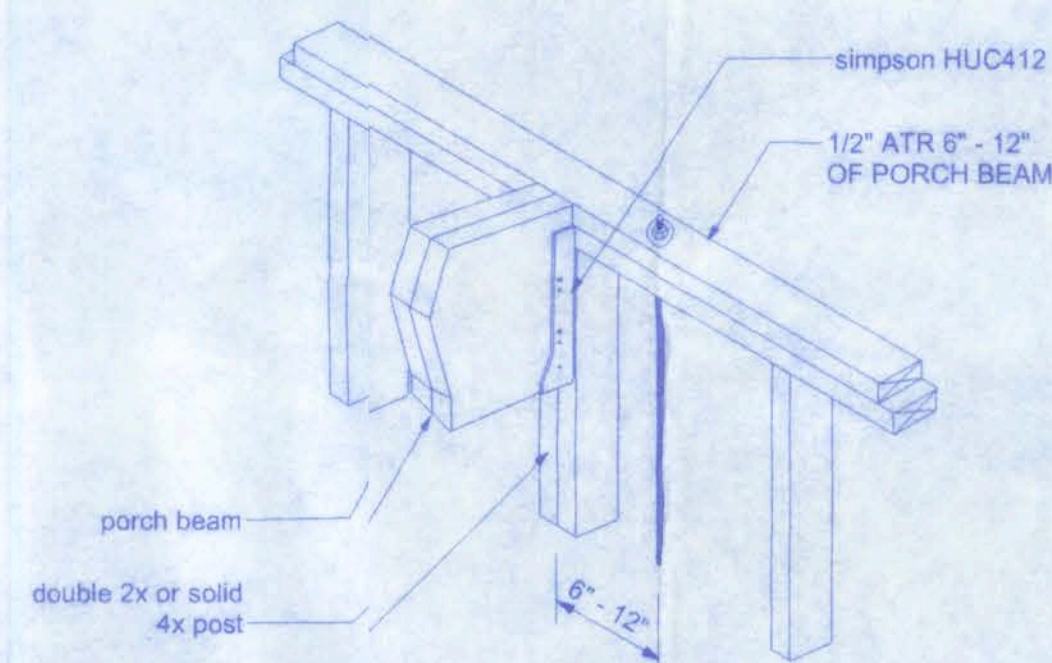
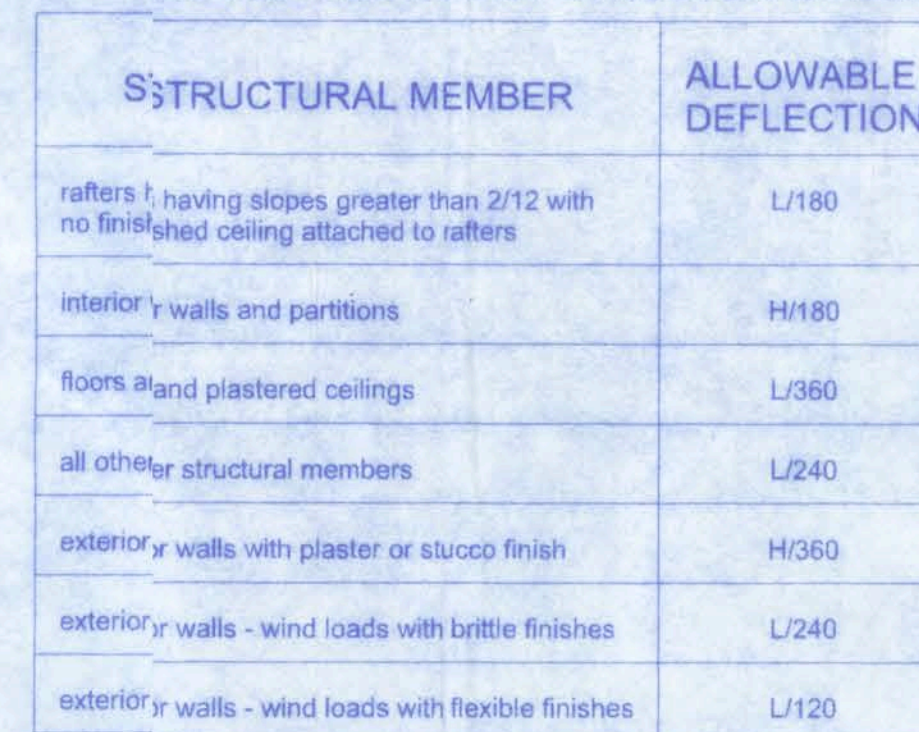
In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a tie plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

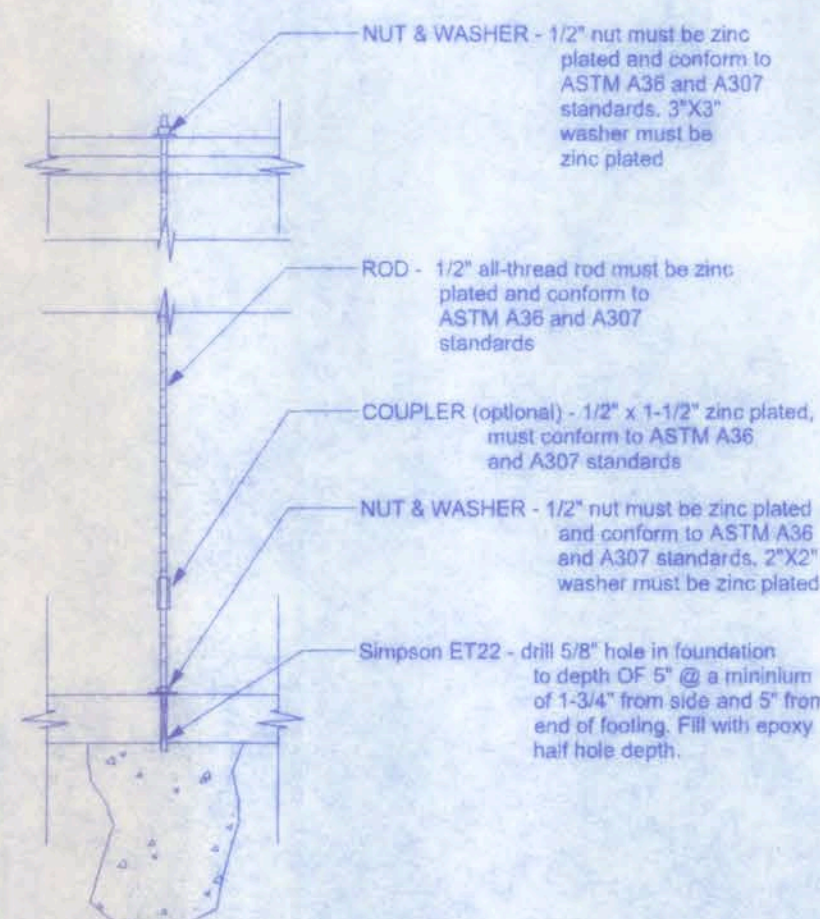
NOTE:  
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION  
1609, FLORIDA BUILDING CODE, 2004 EDITION W/ 2006  
REVISIONS.

|                                 |           |                 |
|---------------------------------|-----------|-----------------|
| BASIC WIND SPEED                |           | 110 MPH         |
| IMPORTANCE FACTOR               |           | 1.0             |
| BUILDING CATEGORY               |           | 2               |
| EXPOSURE                        |           | B               |
| INTERNAL PRESSURE COEFFICIENT   |           | +/- 0.18        |
| COMPONENT AND CLADDING PRESSURE | WALLS     | +21.8/-29.1 PSF |
|                                 | ROOF      | +12.5/-29.1 PSF |
|                                 | OVERHANGS | -71.6 PSF       |
| TYPE OF STRUCTURE               |           | ENCLOSED        |
| ROOF DEAD LOAD                  |           | 10 PSF          |
| ROOF LIVE LOAD                  |           | 20 PSF          |
| FLOOR DEAD LOAD                 |           | 20 PSF          |
| FLOOR LIVE LOAD                 |           | 40 PSF          |



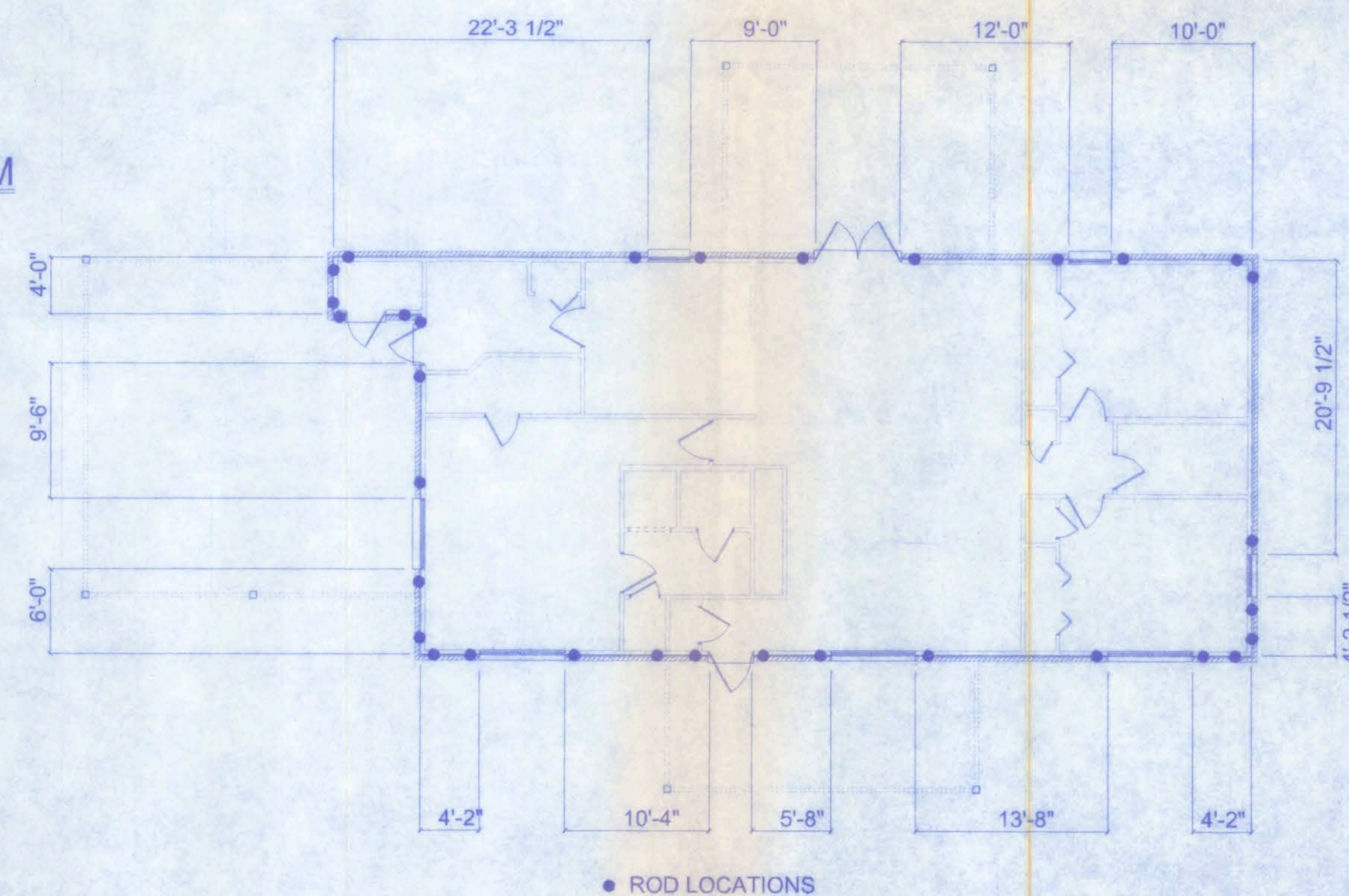
## NTS

NOTE:  
A SOLID MEMBER OF EQUAL OR  
GREATER SIZE THAN MULTIPLE  
MEMBERS MAY BE USED.  
IF RATED SHEATHING IS APPLIED  
TO NARROW EDGES, NAILED TO  
EACH STUD AT 12" O.C. MAXIMUM,  
THE LAMINATION NAILING SHOWN  
HERE IS NOT REQUIRED.

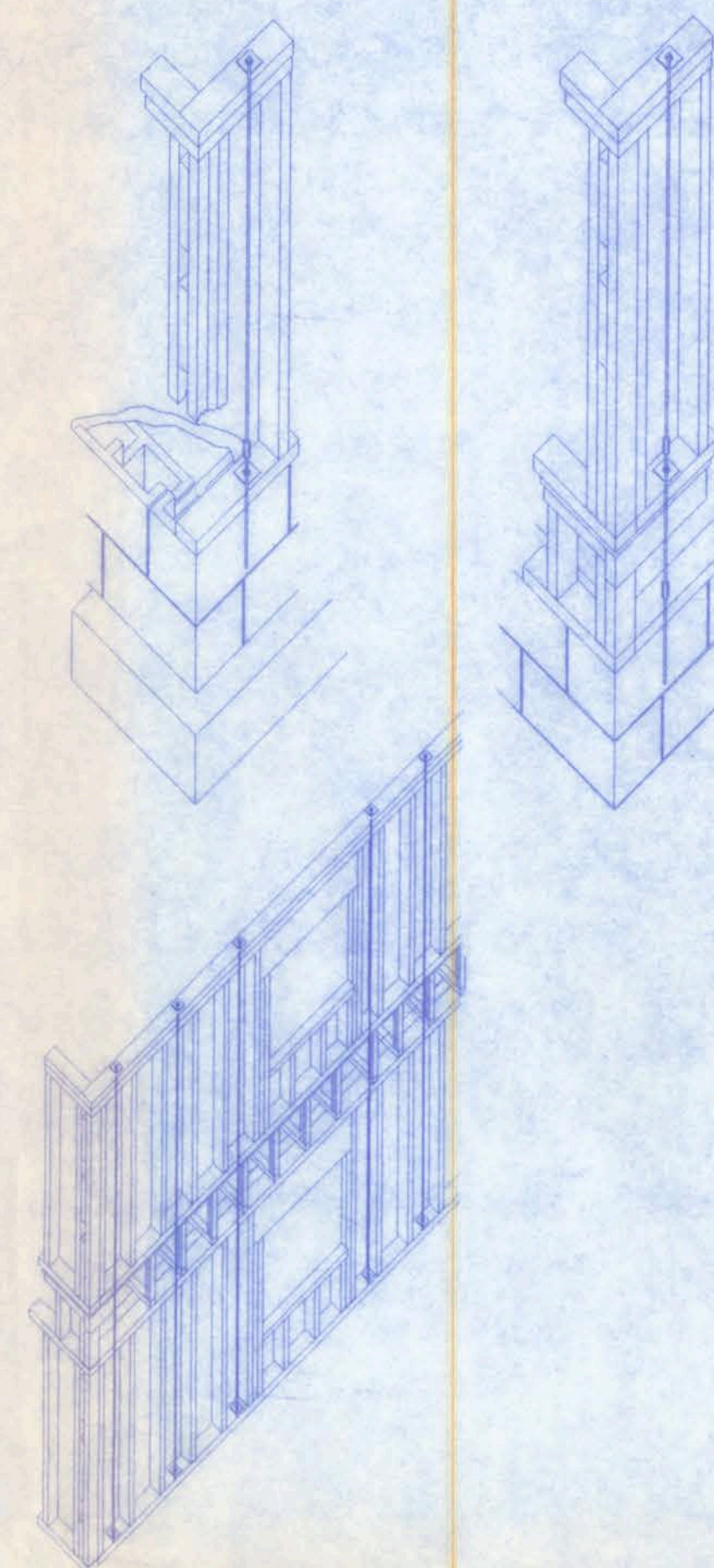


END (TOP OR BOTTOM)

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



SCALE: 1/8" = 1'-0"



PETTYJOHN  
RESIDENCE

161 NW MADISON STREET  
SUITE # 102  
LAKE CITY, FL. 32055  
386)758-4209

**Freeman**  
Design Group, Inc.

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_

|         |        |
|---------|--------|
| 12/1/07 | W.H.F. |
|---------|--------|

REVISIONS

SHIFTS: C 1

SHEET 3-1

25 1

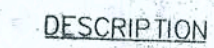
OF

PROJECT NO. 07-5000

07.R069



CAD FILE=4137B.DWG



PARCEL 1

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 19, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN N 00°32'55" W ALONG THE EAST LINE OF SAID SECTION 19 A DISTANCE OF 43.61 FEET TO A POINT ON THE ARC OF A CURVE CONCAVE TO THE NORTH HAVING A RADIUS OF 17148.73 FEET AND CENTRAL ANGLE OF 00°04'23", BEING ON THE NORTH RIGHT-OF-WAY LINE OF COUNTY ROAD NUMBER 242; THENCE RUN WESTERLY ALONG SAID ARC OF CURVE, ALSO STILL ALONG SAID NORTH RIGHT-OF-WAY LINE 21.85 FEET TO THE POINT OF TANGENCY OF SAID CURVE; THENCE RUN N 89°08'24" W STILL ALONG SAID NORTH RIGHT-OF-WAY LINE 824.01 FEET TO A LINE N 89°08'24" W STILL ALONG SAID NORTH RIGHT-OF-WAY LINE 739.91 FEET; THENCE RUN N 00°48'01" W A DISTANCE OF 1361.76 FEET TO THE SOUTH LINE OF PINE KNOLL, A SUBDIVISION RECORDED IN PLAT BOOK 3, PAGE 100 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA; THENCE RUN N 89°34'02" E ALONG SAID SOUTH LINE 420.76 FEET TO THE SOUTHEAST CORNER OF SAID SUBDIVISION; THENCE RUN S 01°16'21" W A DISTANCE OF 251.53 FEET; THENCE RUN S 87°55'00" E A DISTANCE OF 328.86 FEET TO SAID LINE BEING PARALLEL WITH THE EAST LINE OF SAID SECTION 19; THENCE S 00°32'55" E ALONG SAID PARALLEL LINE 1156.50 FEET TO THE POINT OF BEGINNING. CONTAINING 21.42 ACRES, MORE OR LESS.

PARCEL 2

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 19, TOWNSHIP 4 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, AND RUN N 00°32'55" W ALONG THE EAST LINE OF SAID SECTION 19 A DISTANCE OF 43.61 FEET TO A POINT ON THE ARC OF A CURVE CONCAVE TO THE NORTH HAVING A RADIUS OF 17148.73 FEET AND CENTRAL ANGLE OF 00°04'23", BEING ON THE NORTH RIGHT-OF-WAY LINE OF COUNTY ROAD NUMBER 242, ALSO BEING THE POINT OF BEGINNING; THENCE RUN WESTERLY ALONG SAID ARC OF CURVE 182.01 FEET TO A POINT ON THE NORTH RIGHT-OF-WAY LINE 21.85 FEET TO THE POINT OF TANGENCY OF SAID CURVE; THENCE RUN S 89°08'24" W STILL ALONG SAID NORTH RIGHT-OF-WAY LINE 824.01 FEET TO A LINE BEING PARALLEL WITH THE EAST LINE OF SAID SECTION 19; THENCE RUN N 00°32'55" W ALONG SAID PARALLEL LINE 1156.50 FEET; THENCE RUN S 87°55'00" E 846.49 FEET TO THE EAST LINE OF SAID SECTION 19; THENCE RUN S 00°32'55" E ALONG SAID EAST LINE 1094.39 FEET TO THE POINT OF BEGINNING. CONTAINING 21.42 ACRES, MORE OR LESS.

CON.=CONCRETE  
MON.=MONUMENT  
F.O.D.=FLORIDA DEPARTMENT OF TRANSPORTATION  
LB=LICENSED BUSINESS  
PLS=PROFESSIONAL LAND SURVEYOR  
R/W=RIGHT OF WAY  
C/L=CENTER LINE  
PP=POWER POLE  
FD.=FOUND  
O.H. ELEC.=OVERHEAD ELECTRIC LINE  
FEN=FENCE  
S/D=SUBDIVISION  
P.B.=PLAT BOOK  
PROP.=PROPERTY  
SEC.=SECTION  
RGE.=RANGE  
TWP.=TOWNSHIP  
COR.=CORNER  
CR=COUNTY ROAD  
NO.=NUMBER  
P.O.B.=POINT OF BEGINNING  
A=ARC LENGTH  
EXC.=EXCLUDING

## NOTES

- 1.) Monumentation is as shown and designated on the face of the plat.
- 2.) Boundary based on instruction from client, monumentation found in place, parent tract description furnished by client, prior survey by W.C. Smithy, PLS, prior survey by B.G. Moore, PLS, F.D.O.T. right-of-way map on County Road No. 242, prior survey by this Company.
- 3.) Bearings projected from County Road No. 242 and based on above referenced F.D.O.T. right-of-way map.
- 4.) Interior improvements, pertinent to survey, were located with actual field ties.
- 5.) Underground encroachments, if present, were not located with this survey.
- 6.) This survey was made without benefit of a title search. There may be additional easements, restrictions, etc. not shown hereon but found in the Public Records.
- 7.) Date of field survey completion: September 18, 2003.

NOT VALID WITHOUT THE SIGNATURE  
AND ORIGINAL RAISED SEAL OF A  
FLORIDA REGISTERED PROFESSIONAL  
SURVEYOR AND MAPPER

Donald F. Lee, P.S.M.  
Florida Reg. No. 3628  
DATE: 9/30/2003

Donald F. Lee and Associates, Inc.

**SURVEYORS — ENGINEERS**  
140 Northwest Ridgewood Avenue, Lake City, Florida 32055  
Phone: (386) 755-6166 FAX: (386) 755-6167  
Certificate of Authorization # LB 7042

Date: 9-19-2003

Drafting: J C D

Computations: J. C. D.

Checked: D F L

Scale: 1" = 200'

Field Book: 03-410

Work Order: 03-4137

File: A-29-11  
B-147