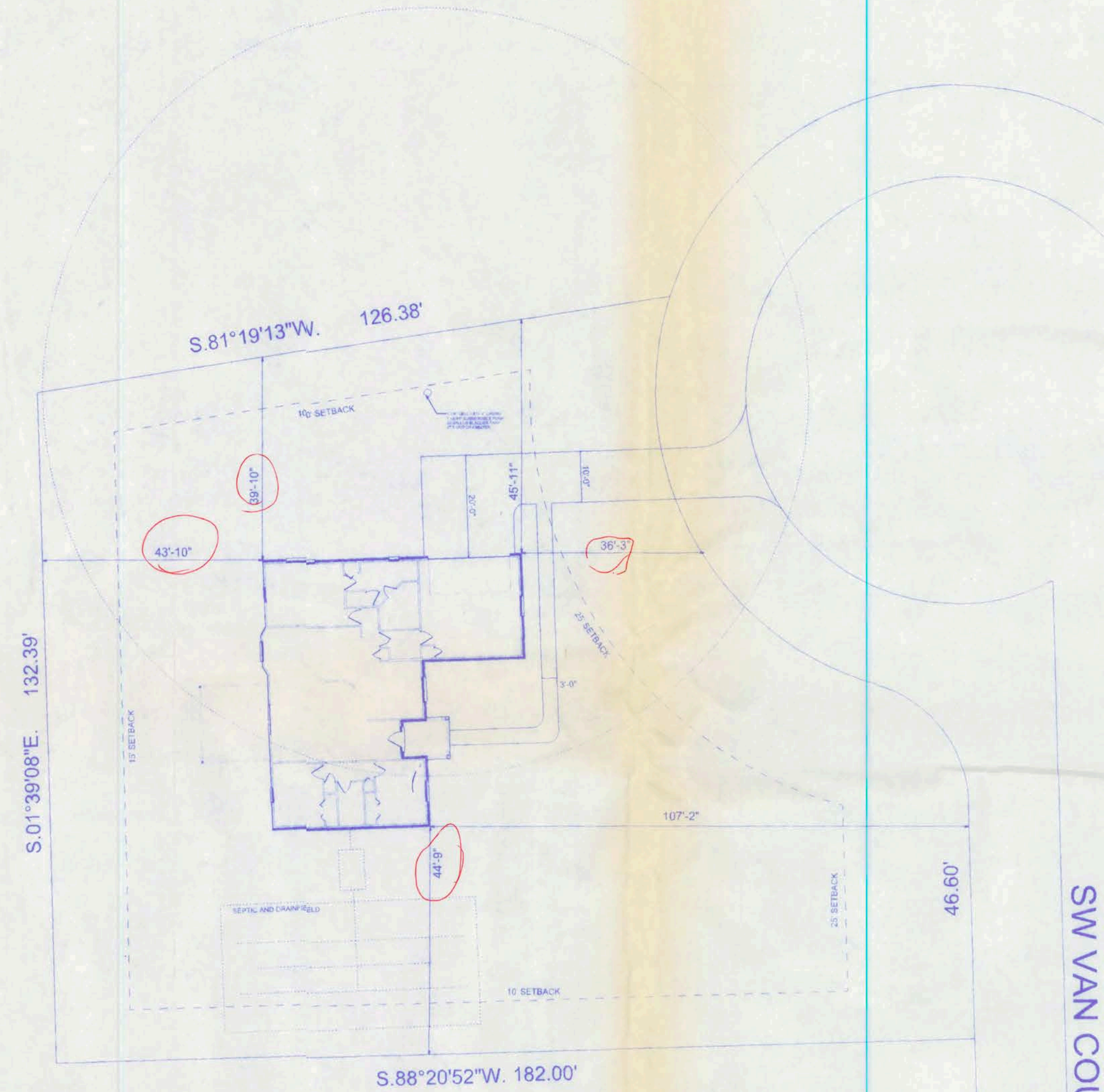




"MAY-FAIR UNIT 3" LOT 10  
SECTION 11, TOWNSHIP 4 SOUTH, RANGE 16 EAST,  
COLUMBIA COUNTY, FLORIDA



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

CERTIFICATE OF AUTHORIZATION # 00008701

DATE  
11/15/07

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OF

SP-1  
1

PROJECT NO.  
07. R050

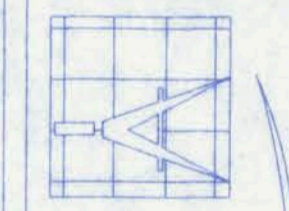
ST. JOHNS MODEL  
MAY-FAIR LOT 10

Willie H. Hines  
11/6/07  
DE#55001

Willie H. Fair  
11/6/07  
PE #56001

MAYFAIR SUBDIVISION  
LOT #10

161 NW MADISON STREET  
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(386)758-4209



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Design Group  
INC.

DATE 11/06/07  
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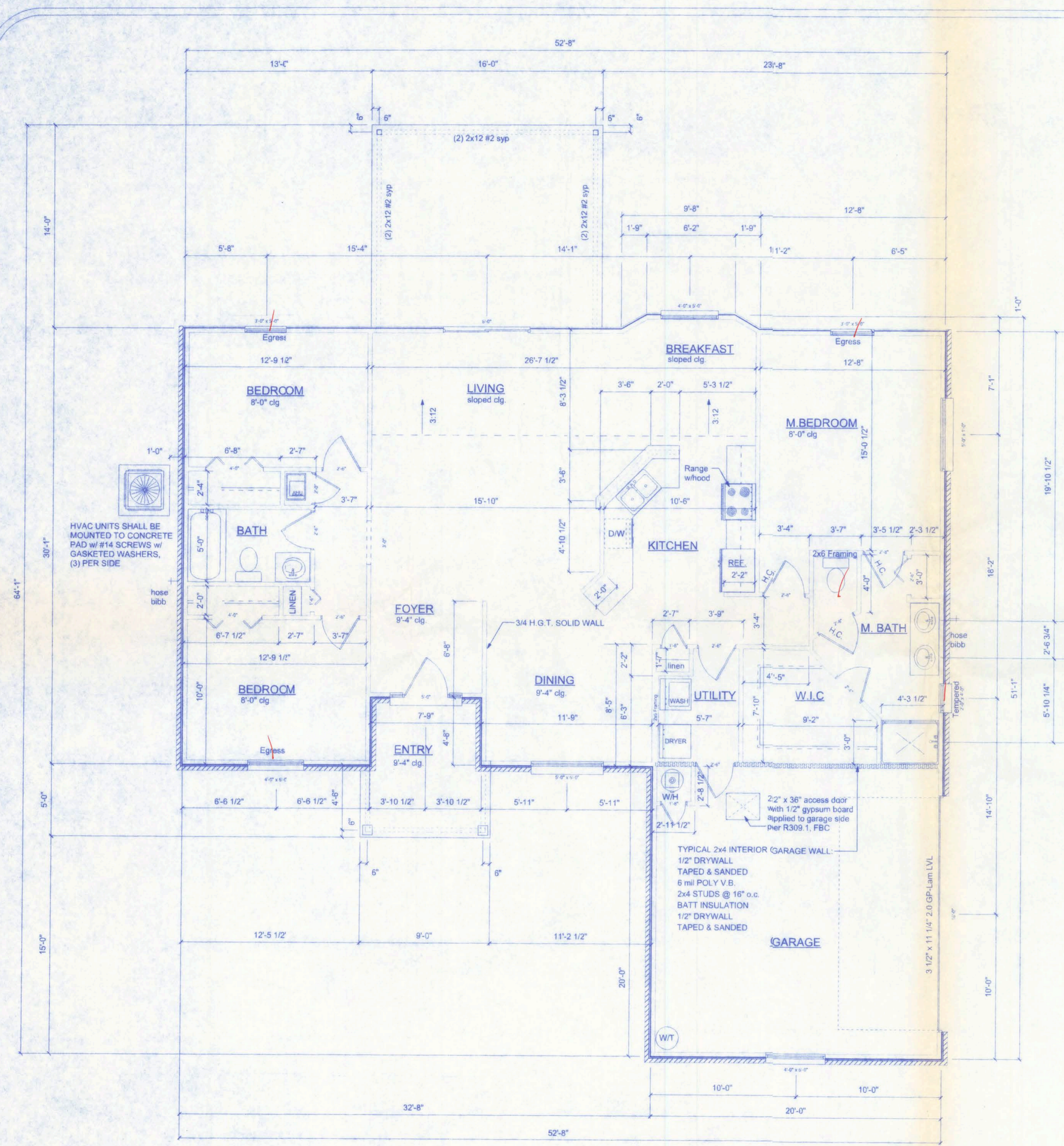
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PROJECT NO.  
07.R050

CERTIFICATE OF AUTHORIZATION # 00002701



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

PRODUCT CODE	SIZE	COUNT
60x80 colonial	5'-0"	1
72x80 sliding french	6'-0"	1
1668 BF	1'-6"	1
2668 BF	2'-6"	1
4068-2 BF	4'-0"	2
30x80 colonial	2'-6"	2
1868	1'-8"	2
2068	2'-0"	1
2468	2'-4"	1
2668	2'-6"	3
2868	2'-8"	3
192X84 - 2 PANEL	16'-0"	1
60x12 transom	5'-0" x 1'-0"	1
24x48 double hung	2'-0" x 4'-0"	1
3660 Renaissance	5'-0" x 6'-0"	1
SH 3050	3'-0" x 5'-0"	2
SH 4050	4'-0" x 5'-0"	1
SH 4060	4'-0" x 6'-0"	2

EMERGENCY EGRESS:  
EVERY BEDROOM SHALL HAVE NOT LESS THAN ONE OUTSIDE WINDOW FOR EMERGENCY RESCUE THAT COMPLIES WITH THE FOLLOWING:  
1. SUCH WINDOWS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND SHALL PROVIDE A CLEAR OPENING OF NOT LESS THAN 20 INCHES IN WIDTH, 24 INCHES IN HEIGHT, AND 5.7 SQFT IN AREA.  
2. THE BOTTOM OF THE OPENING SHALL BE NOT MORE THAN 44 INCHES ABOVE THE FLOOR, AND ANY LATCHING DEVICE SHALL BE CAPABLE OF BEING OPERATED FROM NOT MORE THAN 54 INCHES ABOVE THE FINISHED FLOOR.  
3. THE CLEAR OPENING SHALL ALLOW A RECTANGULAR SOLID, WITH A WIDTH AND HEIGHT THAT PROVIDES NOT LESS THAN THE REQUIRED 5.7 SQFT OPENING AND A DEPTH NOT LESS THAN 20 INCHES, TO PASS FULLY THROUGH THE OPENING.  
4. SUCH WINDOWS SHALL BE ACCESSIBLE BY THE FIRE DEPARTMENT AND SHALL OPEN INTO AN AREA HAVING ACCESS TO A PUBLIC WAY.

NOTE:  
THE MINIMUM NATURAL VENTILATION AREA REQUIRED FOR GARAGES SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED. THE MINIMUM MECHANICAL VENTILATION FOR GARAGES SHALL BE 100 CFM PER CAR.

NOTE:  
DUCTS THAT EXHAUST CLOTHES DRYERS SHALL NOT PENETRATE OR BE LOCATED WITHIN ANY FIREBLOCKING OR FIRE RATED WALL OR CEILING ASSEMBLY.

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.

DUCT PENETRATION:  
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 sheet steel or other approved material and shall have no openings into the garage.

OPENING PROTECTION:  
openings from a private garage directly into a room used for sleeping purposes shall not be permitted. other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8" in thickness, solid or honeycomb steel doors not less than 1 3/8" thick, or a 20-minute fire rated doors.

SEPARATION REQUIRED:  
the garage shall be separated from the residence and its attic area by not less than 1/2" gypsum board applied to the garage side. garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8" Type X gypsum board or equivalent. where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than 1/2" gypsum board or equivalent.

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.

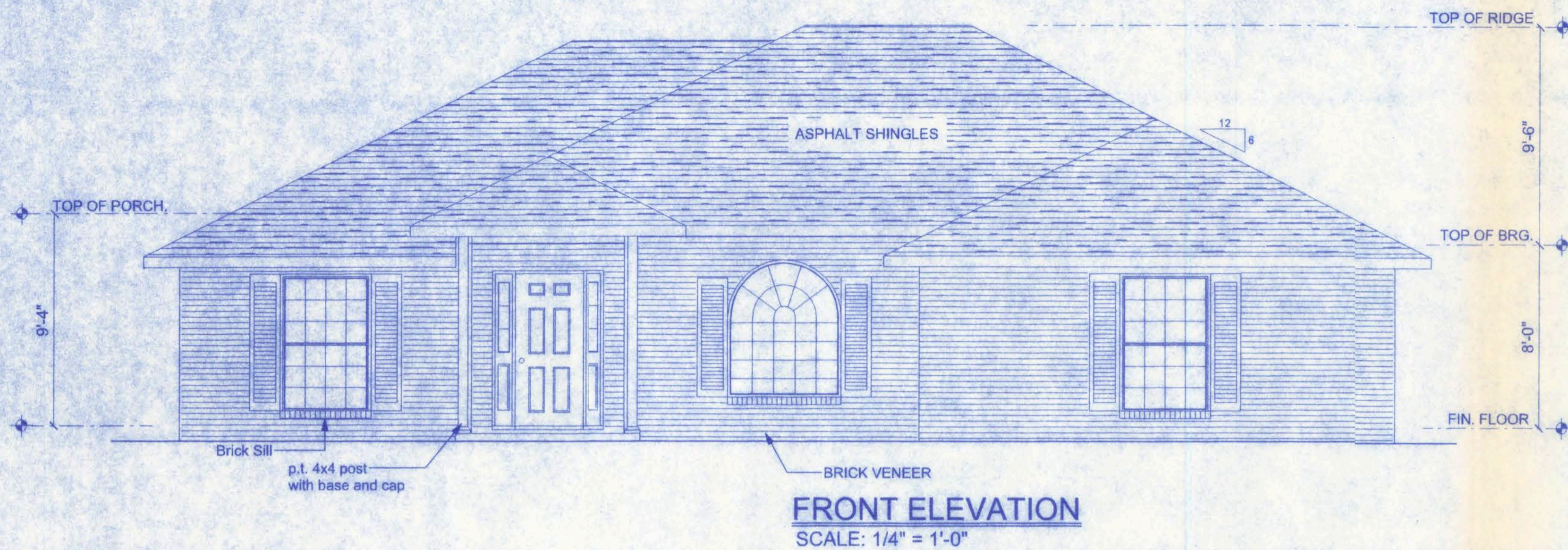
NOTE:  
EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE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

ANSI/AAMA/NWDDA 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.

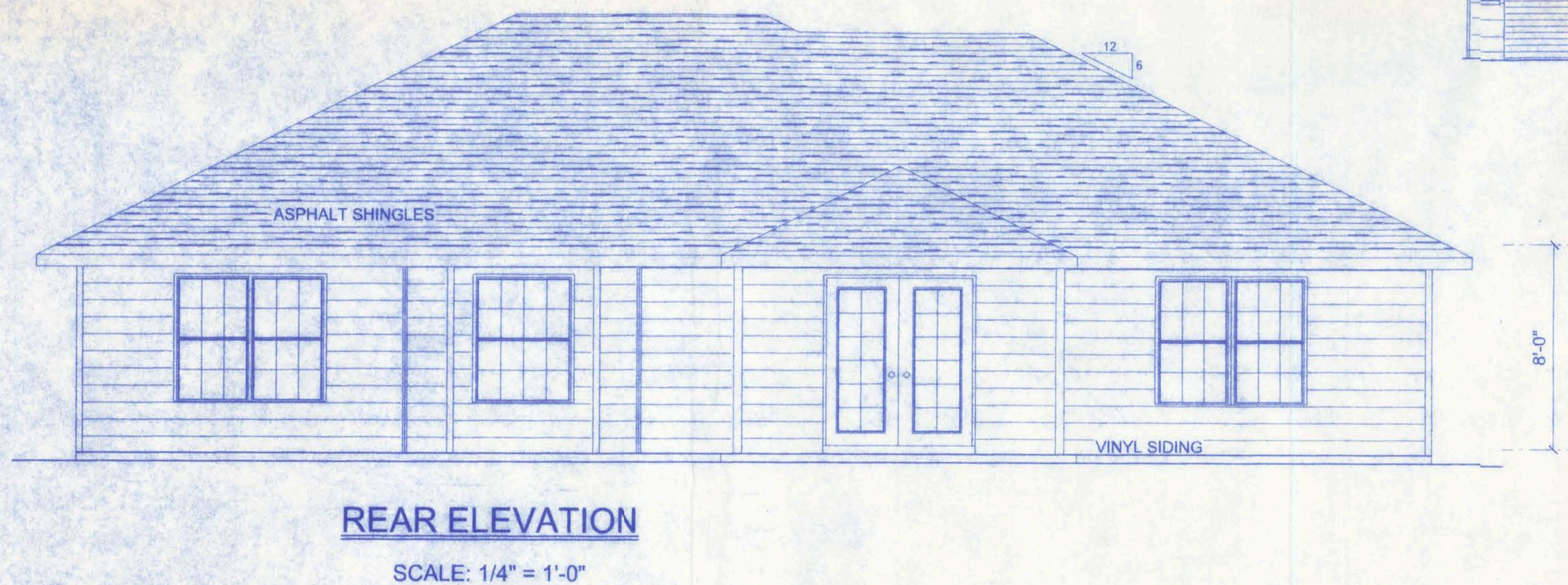
AREA SUMMARY

HEATED	1,608 S.F.
PORCH	304 S.F.
GARAGE	400 S.F.
TOTAL:	2,312 S.F.



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

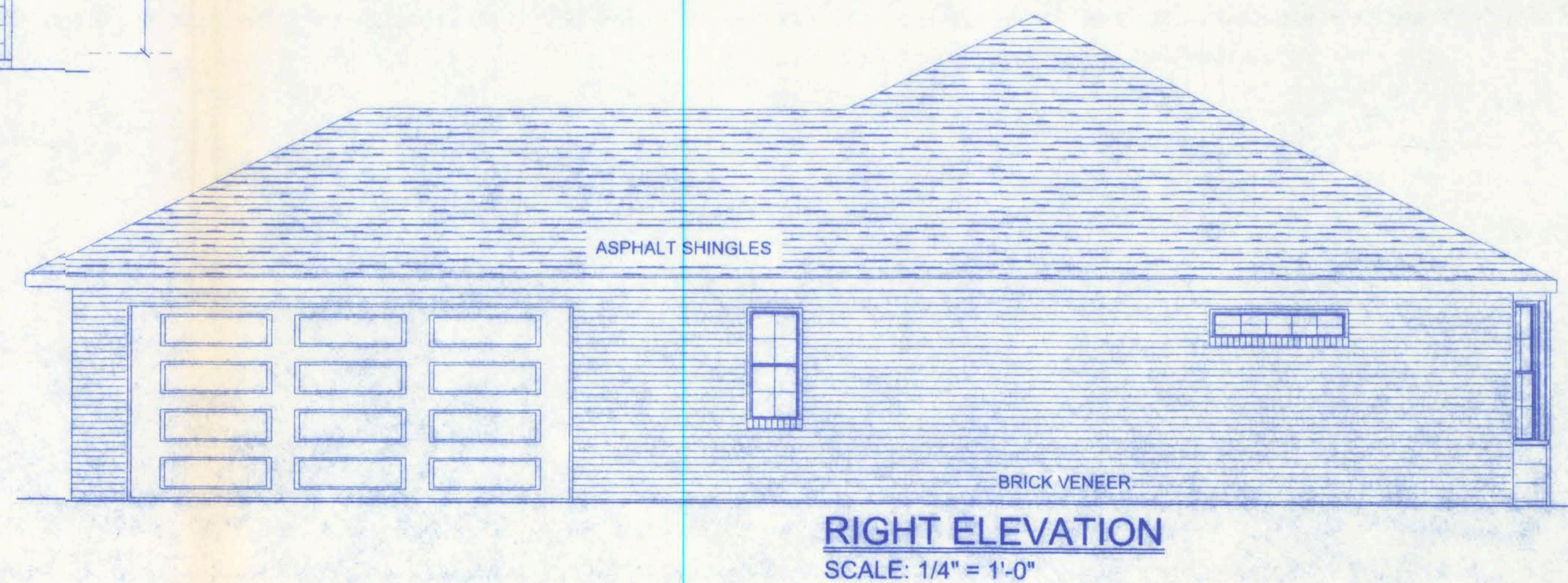
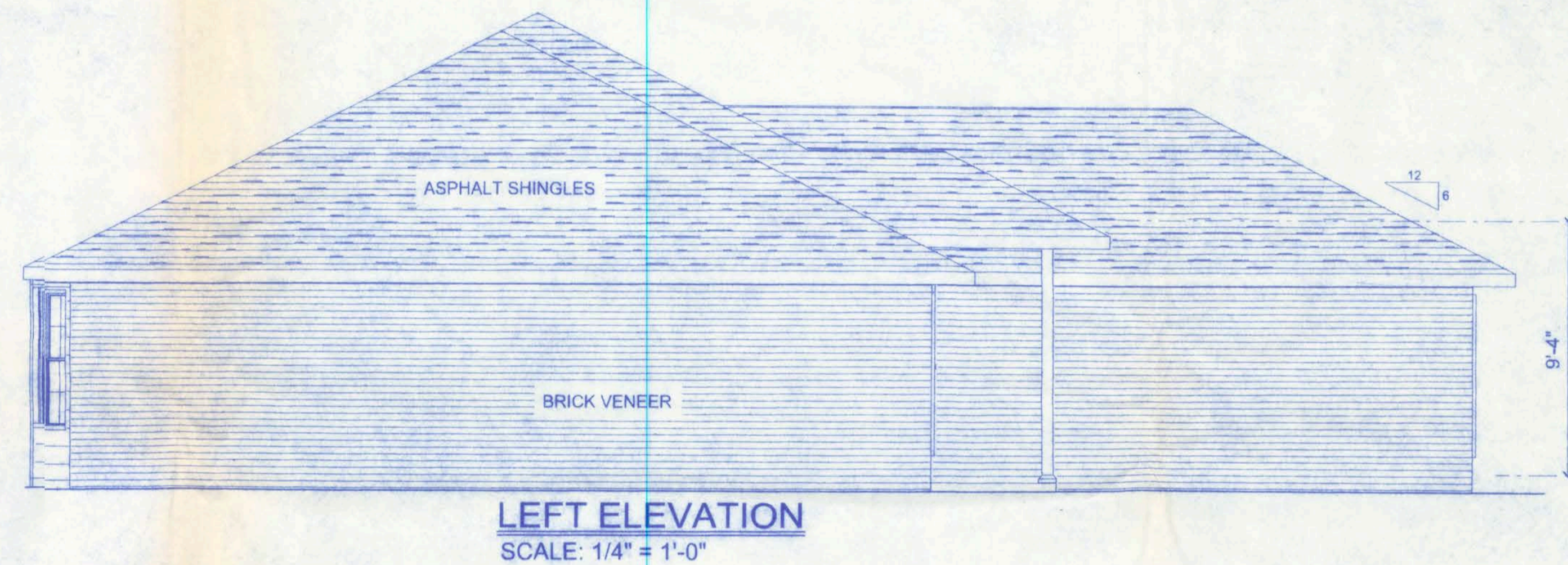
NOTE: VENTILATE ROOF TO 1/300TH OF INSULATED ATTIC



**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 ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE  
ITEMS NOT DIMENSIONED.

**CHANGES TO PLAN SETS:**  
PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES 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:  
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.

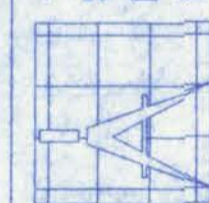
NOTE:  
BATHROOM EXHAUST SHALL BE DIRECTED TO OUTSIDE OF BUILDING.  
EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS. AIR  
EXHAUST OPENINGS SHALL BE PROTECTED WITH CORROSION-RESISTANT  
SCREENS, LOUVERS OR GRILLS IF TERMINATING OUT DOORS.

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.

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:  
THE MINIMUM NATURAL VENTILATION AREA REQUIRED FOR  
GARAGES SHALL BE 4 PERCENT OF THE FLOOR AREA BEING  
VENTILATED. THE MINIMUM MECHANICAL VENTILATION  
FOR GARAGES SHALL BE 100 CFM PER CAR.

161 NW MADISON STREET  
SUITE #102  
LAKE CITY, FL 32055  
(386)758-4208



**Freeman**  
Design Group  
INC.

DATE  
11/06/07

DRAWN BY  
W.H.F.

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6

PROJECT NO.  
07.R050

**MAYFAIR SUBDIVISION**  
**LOT #10**

W.H.F.  
11/6/07  
PE #56001

CERTIFICATE OF AUTHORIZATION # 00008701



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 FA 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 SHINGLEFASHION  
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.

2x6 LEDGER FASTENED  
TO BLOCKING OR TRUSS  
2#10 x 3" GALVANIZED SCREWS  
@ EACH TRUSS

2-16d TOE NAILS ON  
EACH FACE TO RIDGE  
BOARD (TYP.)

2-16d TOE NAILS ON  
EACH FACE TO LEDGER  
BOARD (TYP.)

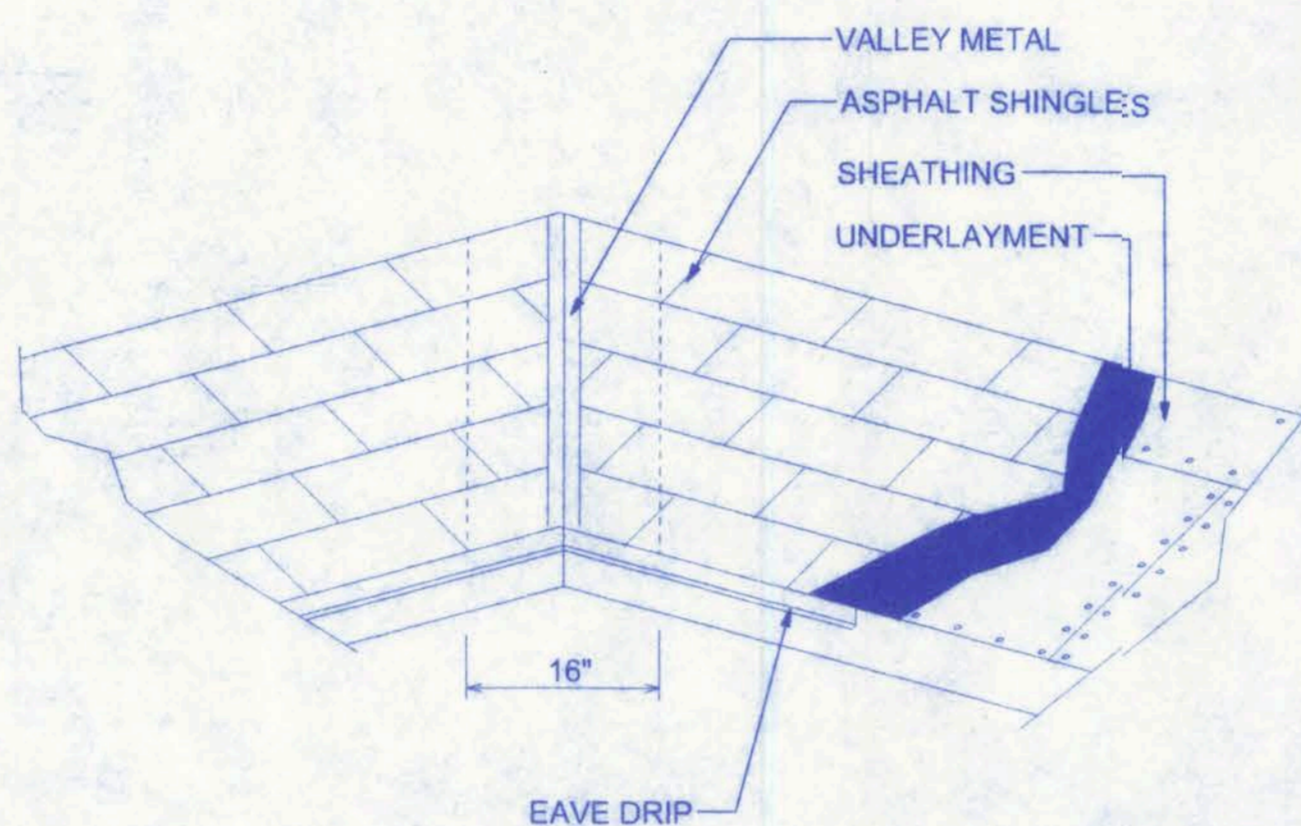
2x6 COLLAR TIES  
@ 48" O.C. (TYP.)

2x8 SPF #2 RIDGE BEAM

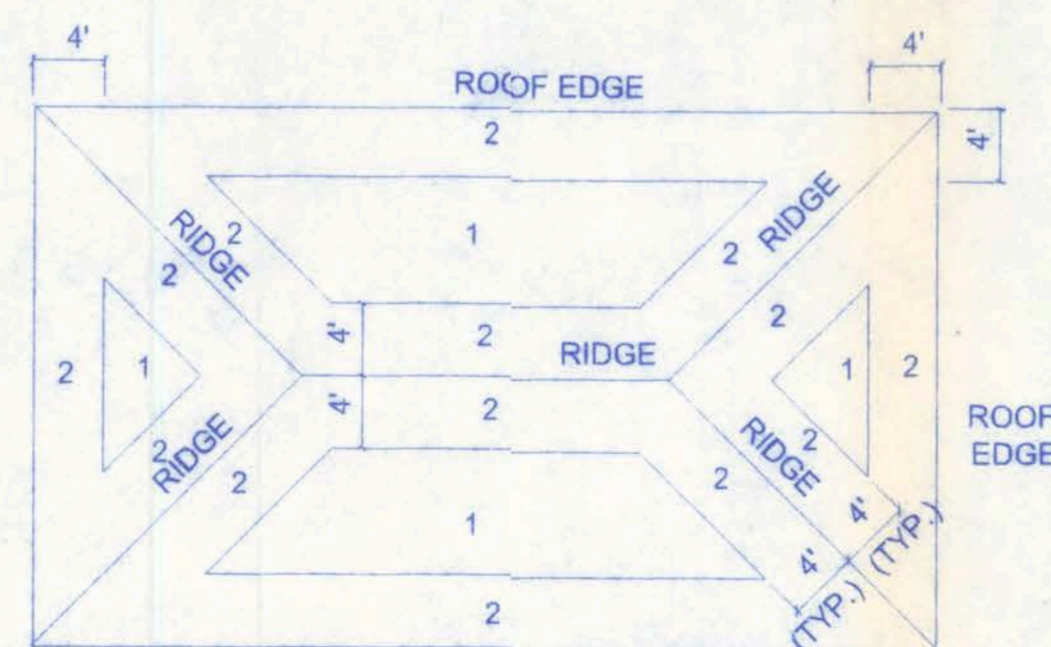
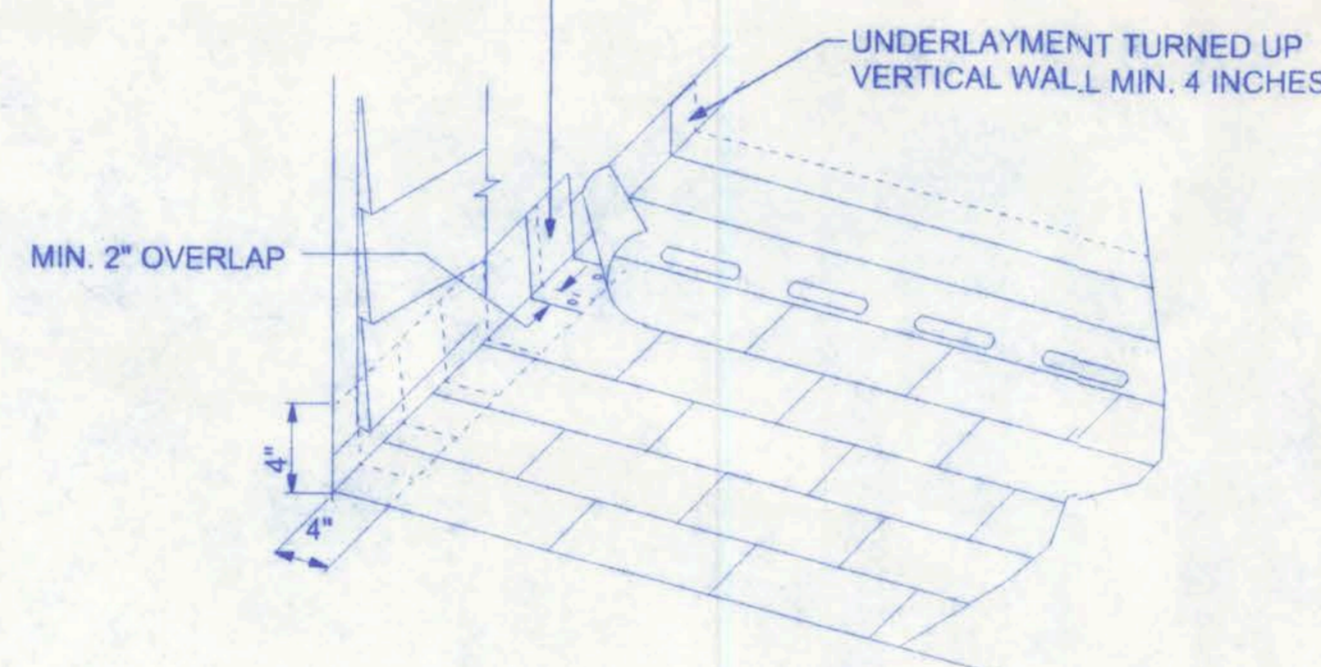
2x6 SPF #2 RAFTERS @ 24" o.c.

**ROOF INTERSECTION CONNECTION DETAIL**  
NTS

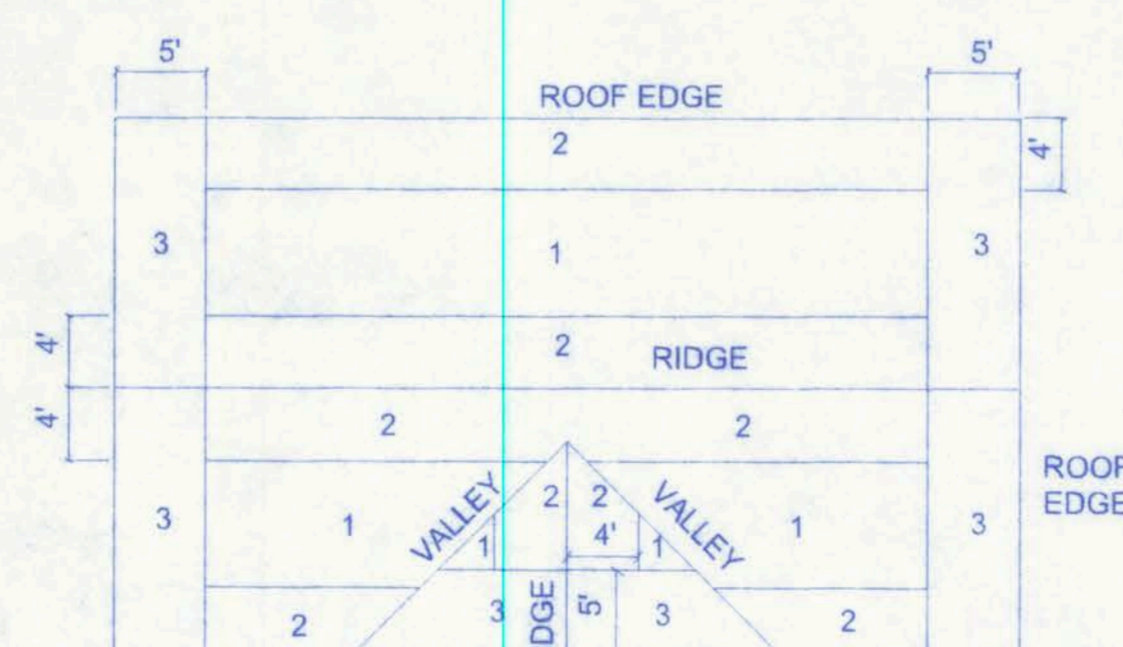
MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (LB)
COPPER			1
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (ZINC COATED G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		2 1/2 20



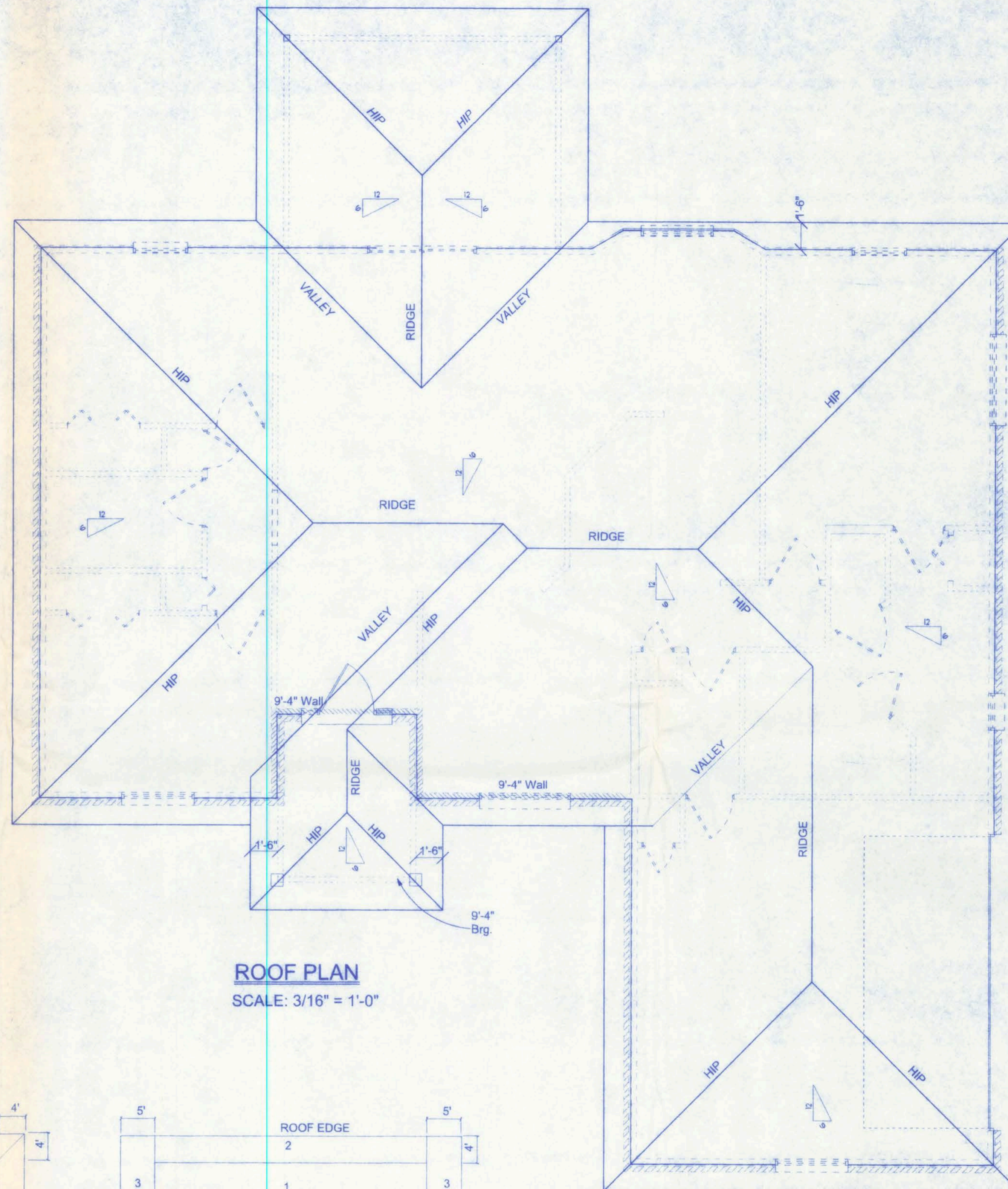
FLASHING PLACED UPSLOPE FROM  
EXPOSED EDGE OF SHINGLE  
EXTENDING 4 INCHES OVER  
UNDERLYING SHINGLE AND  
4 INCHES UP VERTICAL WALL



**ROOF SHEATHING NAILING ZONES (HIP ROOF)**



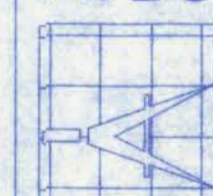
**ROOF SHEATHING NAILING ZONES (GABLE ROOF)**



**ROOF PLAN**  
SCALE: 3/16" = 1'-0"

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	1/2" O.S.B. OR 15/32 CDX	8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. @ GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD

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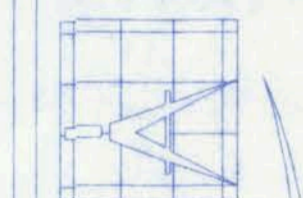
**MAYFAIR SUBDIVISION**  
**LOT #10**

11/6/07  
PE #56001

CHILL H. LEE  
11/6/07  
PE #56001

MAYFAIR SUBDIVISION  
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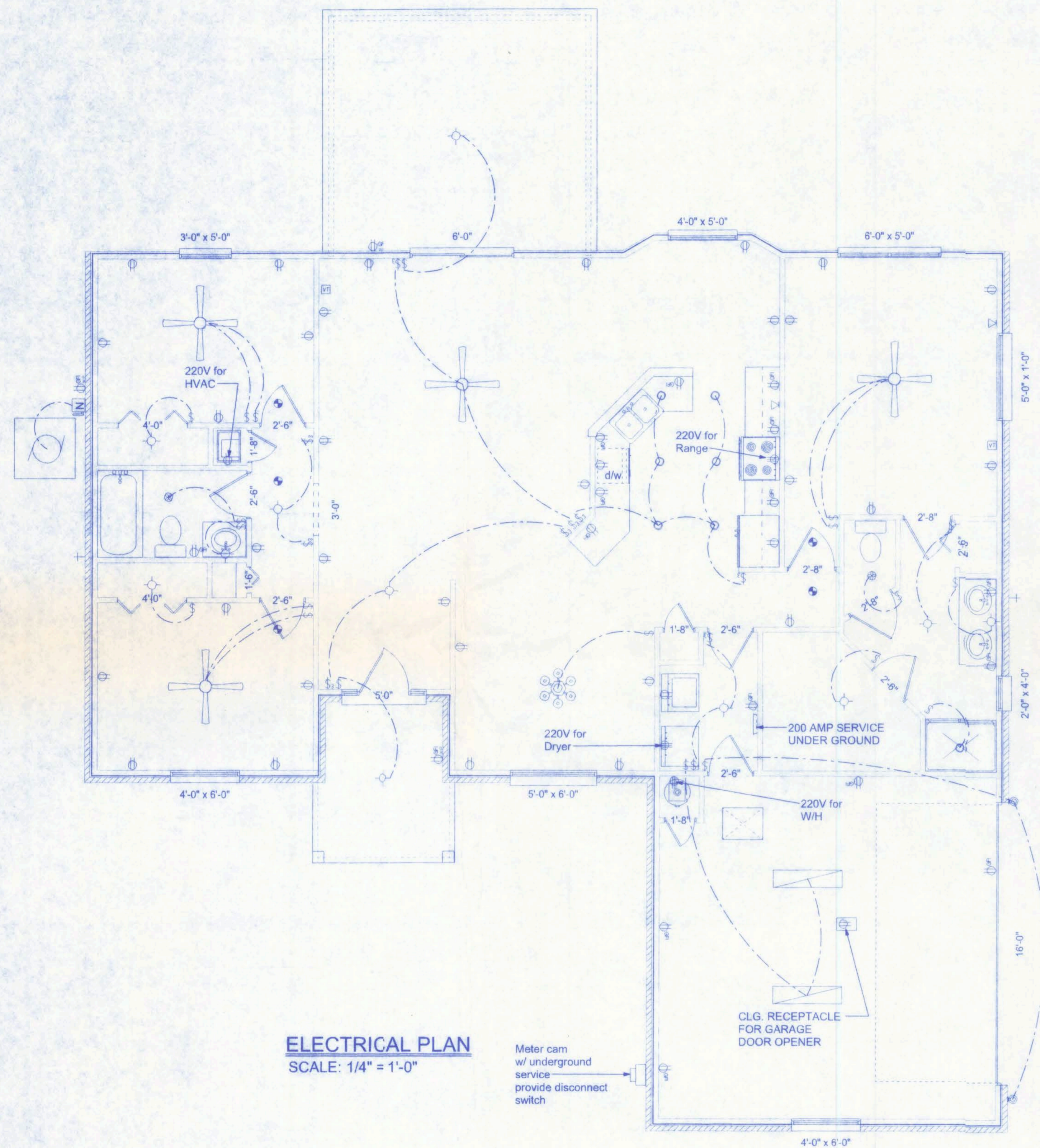
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PROJECT NO.  
07-R050

CERTIFICATE OF AUTHORIZATION # 00008701



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

ELECTRICAL	COUNT	SYMBOL
ceiling fan globe 1	4	
chandelier	1	
fluorescent fixture	2	
pot light	7	
wall mount 1	2	
electric motor	1	
electrical panel	1	
meter can	1	
non-fused disconnect	1	
50 cfm exhaust fan	1	
cable tv outlet	2	
fan	1	
light	11	
outlet	36	
outlet 220v	3	
outlet gfi	15	
smoke detector	5	
switch	20	
switch 3 way	10	
telephone	2	
weather proof gfi	3	

**ELECTRICAL PLAN NOTES**

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

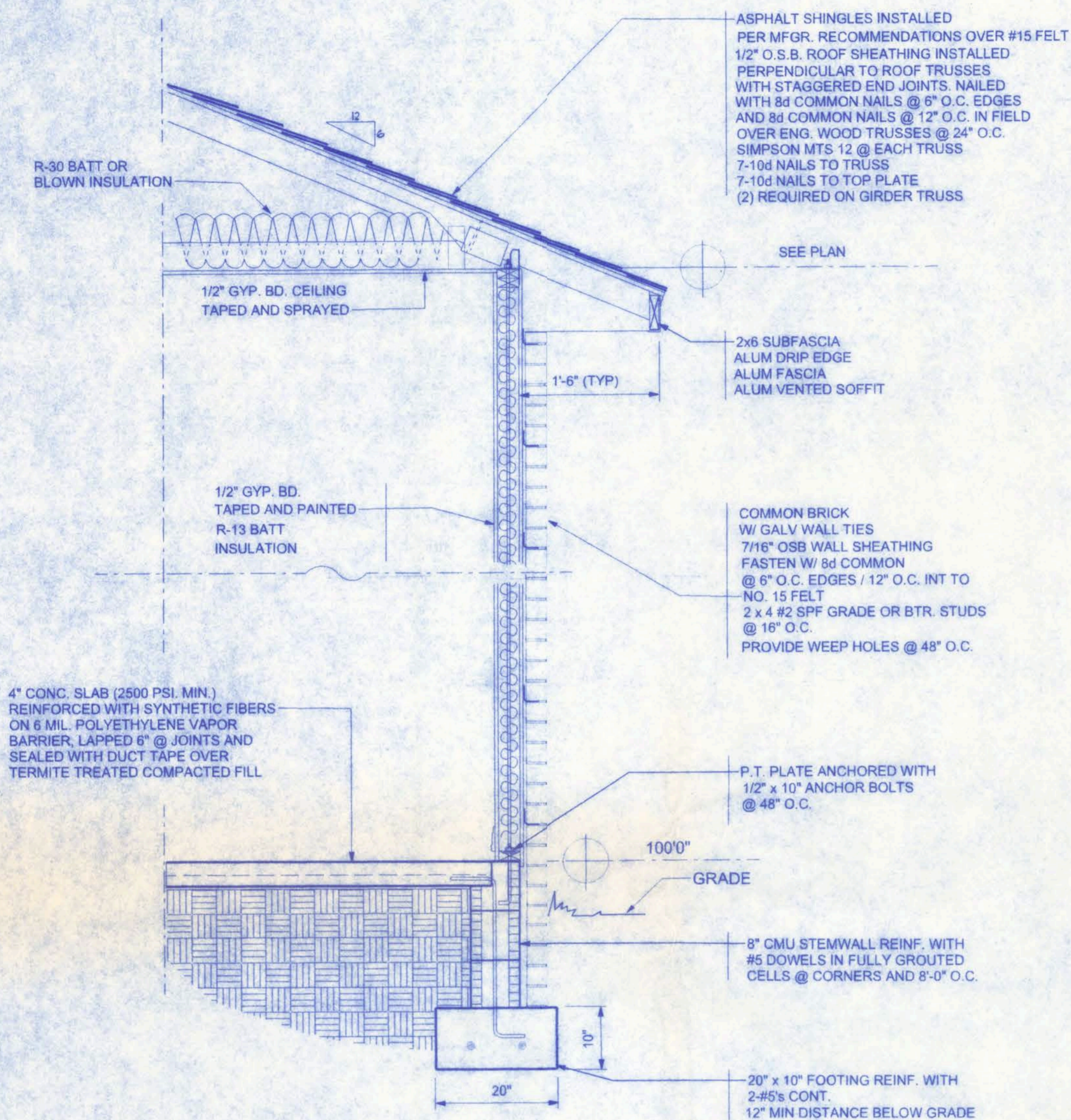
ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

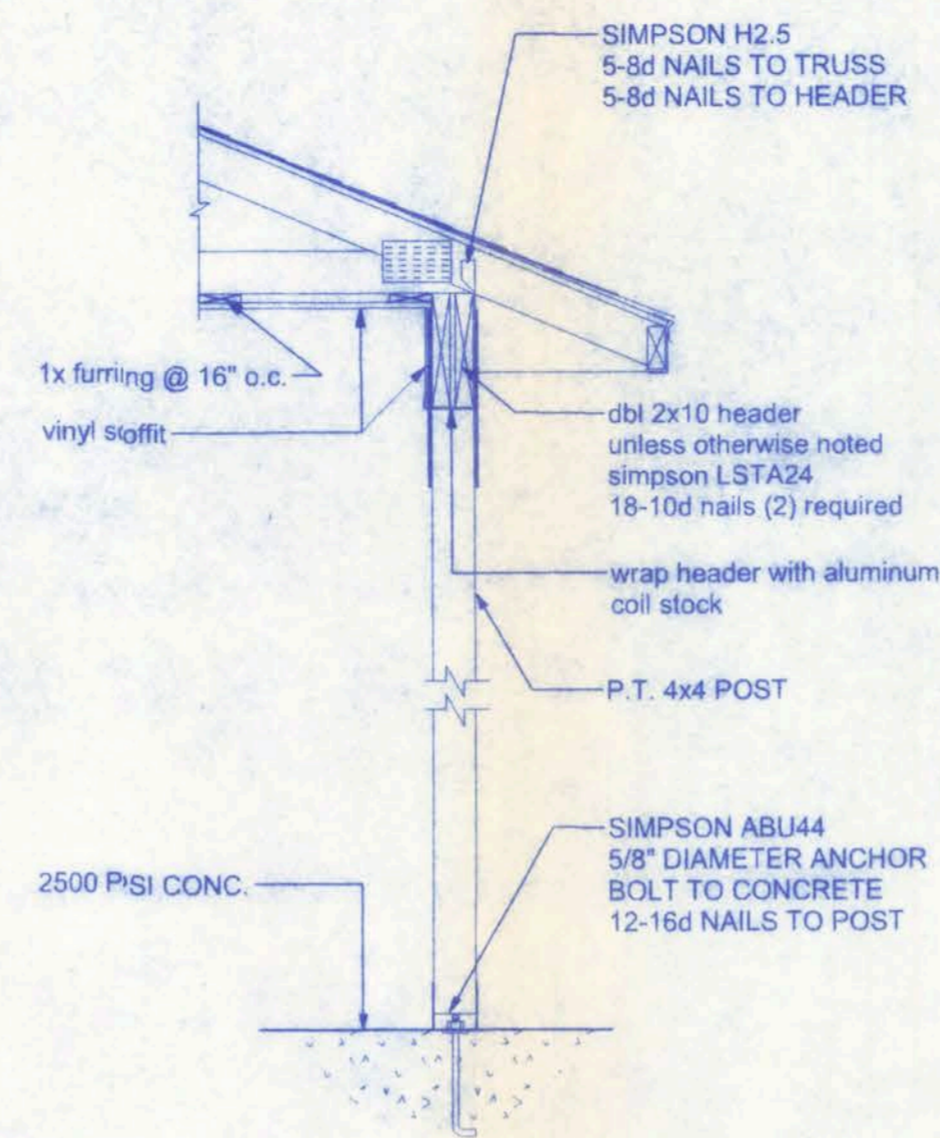
ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

**NOTE:**

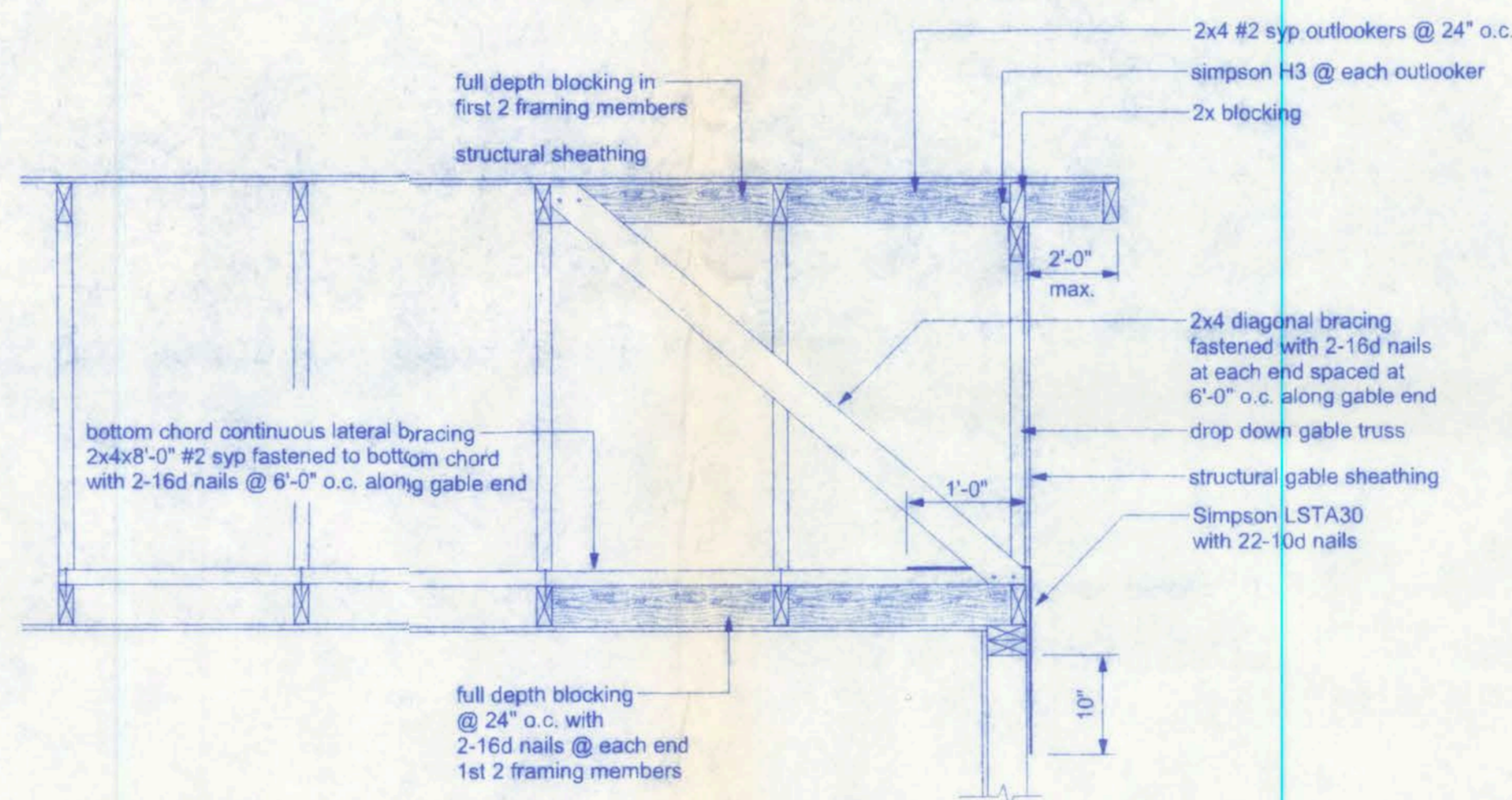
ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE, 15 AND 20 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.



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

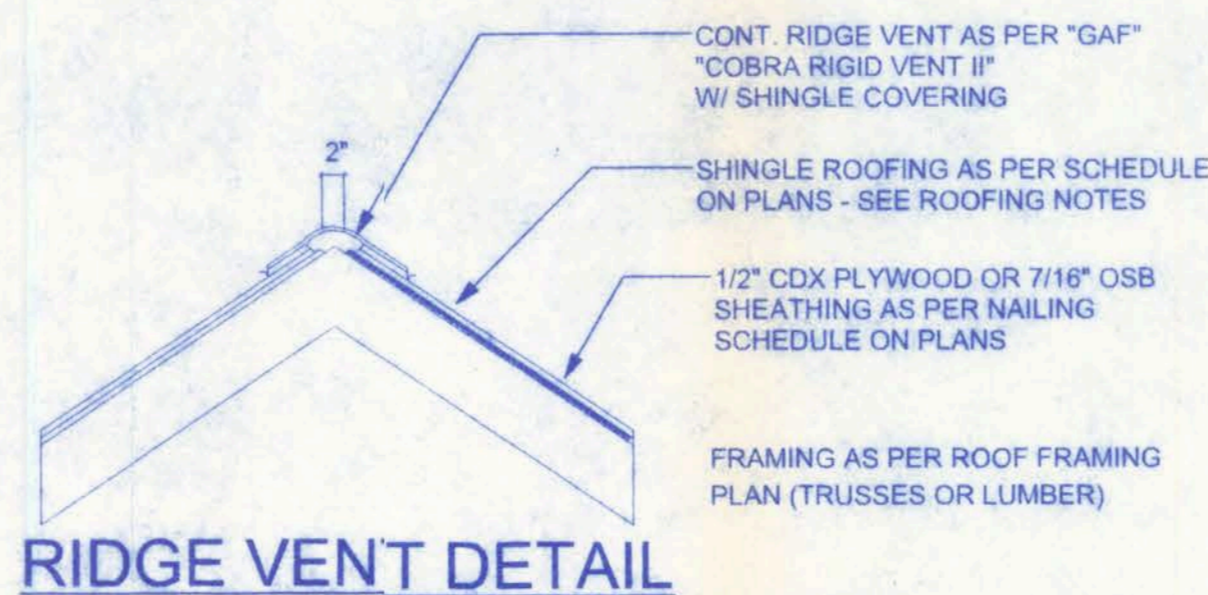


**A PORCH SECTION**  
SCALE: 3/4" = 1'-0"

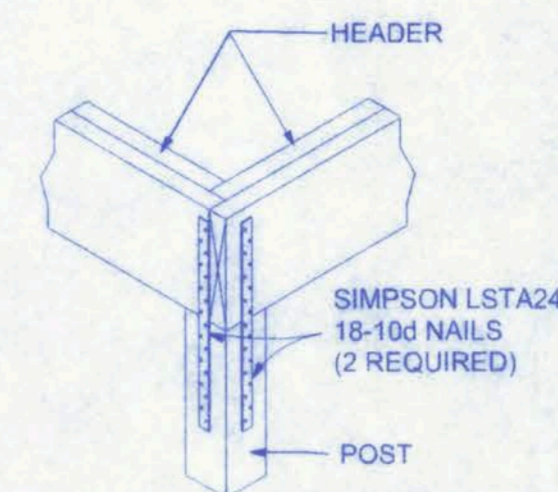


**END WALL BRACING FOR CEILING DIAPHRAGM**

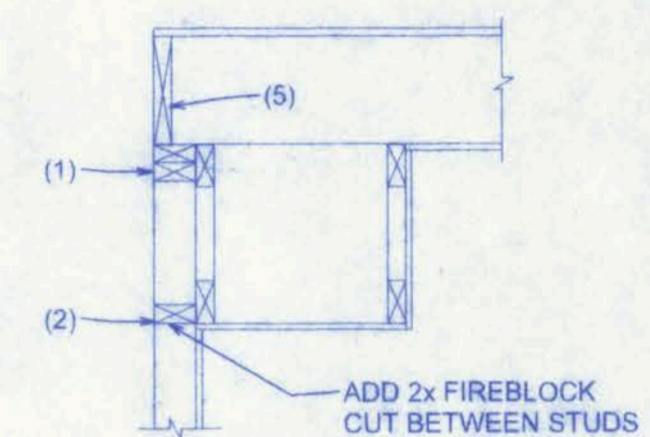
NTS  
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE



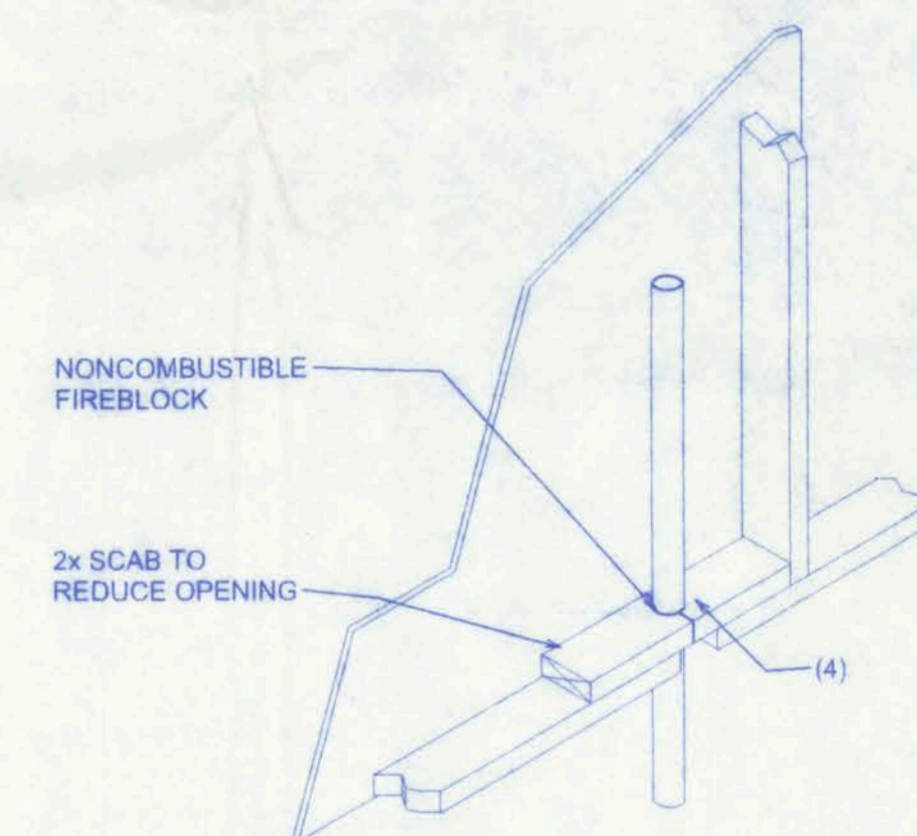
**RIDGE VENT DETAIL**



**CORNER POST/HEADER DETAIL**  
NTS



**SOFFIT/DROPPED CLG.**



**PENETRATIONS**

**FIREBLOCKING NOTES:**

- FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
  2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
  3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
  4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROPANEL MULTIFLEX SEALANT
  5. 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.

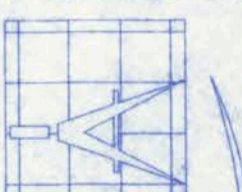
**VENTILATION REQUIREMENTS**

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

W.H.F. Inc.  
11/16/07  
PE #56001

**MAYFAIR SUBDIVISION**  
**LOT #10**

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



**Freeman**  
Design Group Inc.

DATE: 11/06/07  
DRAWN BY: W.H.F.

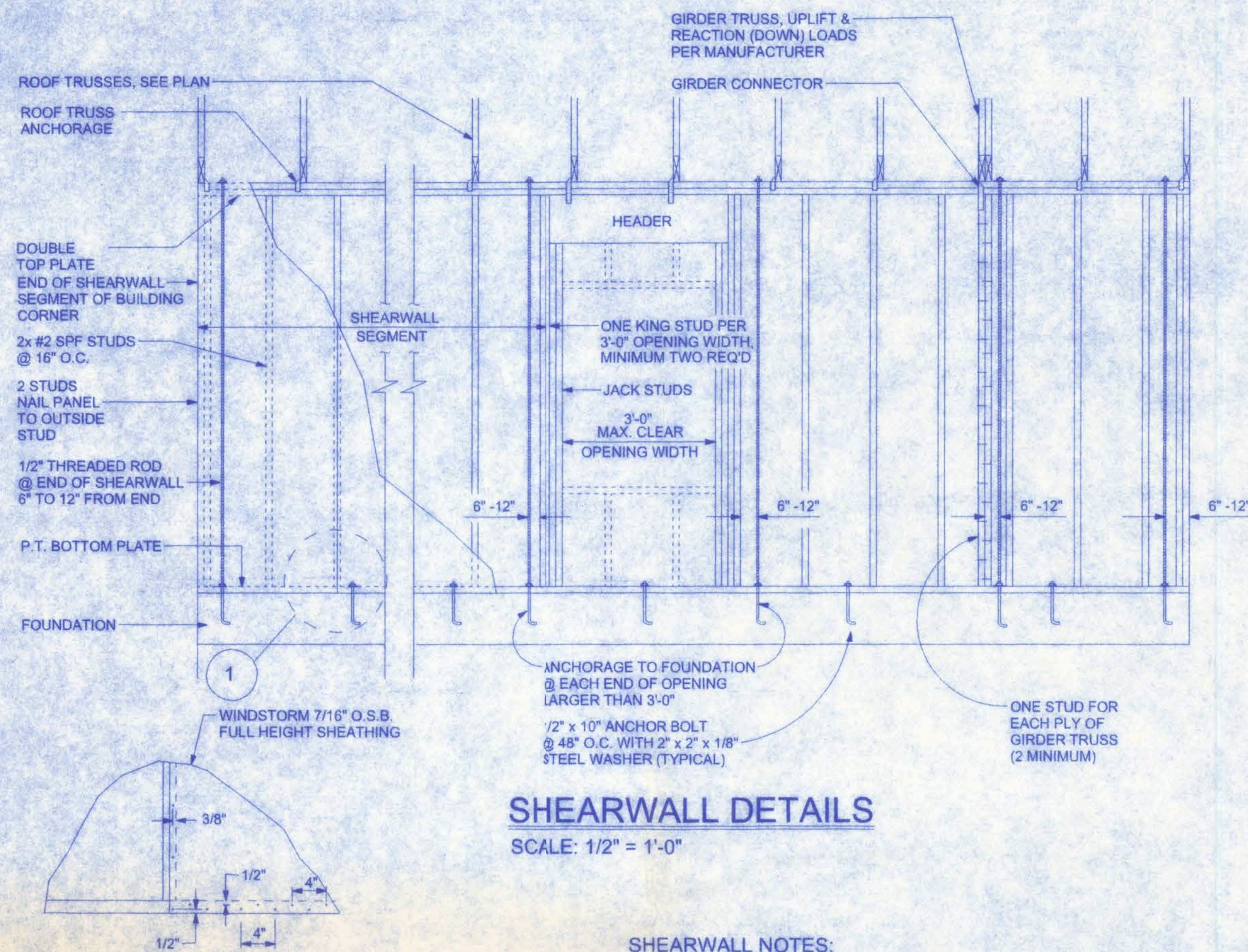
REVISIONS

SHEET: A-6

OF: 6

PROJECT NO.: 07.R050

CERTIFICATE OF AUTHORIZATION # 00080701



**SHEARWALL DETAILS**  
SCALE: 1/2" = 1'-0"

**DOUBLE NAIL EDGE SPACING**  
TOP AND BOTTOM PLATE  
UPLIFT CAPACITY = 474 plf  
(TABLE 305S1 SST10-99)

**RULES:**

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 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-fits**

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.

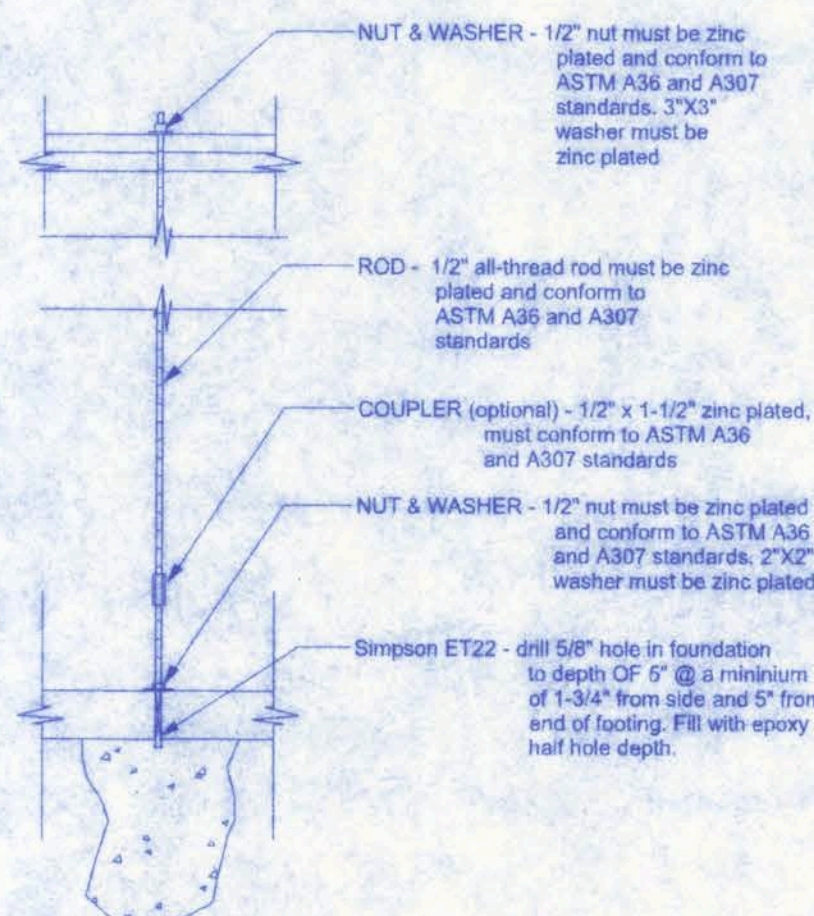
**System Tightening:**

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 SIX TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 i.e. FOR 8'-0" WALLS - (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 8'-0"	(1) 2x4 OR (1) 2x6	1
> 8' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3

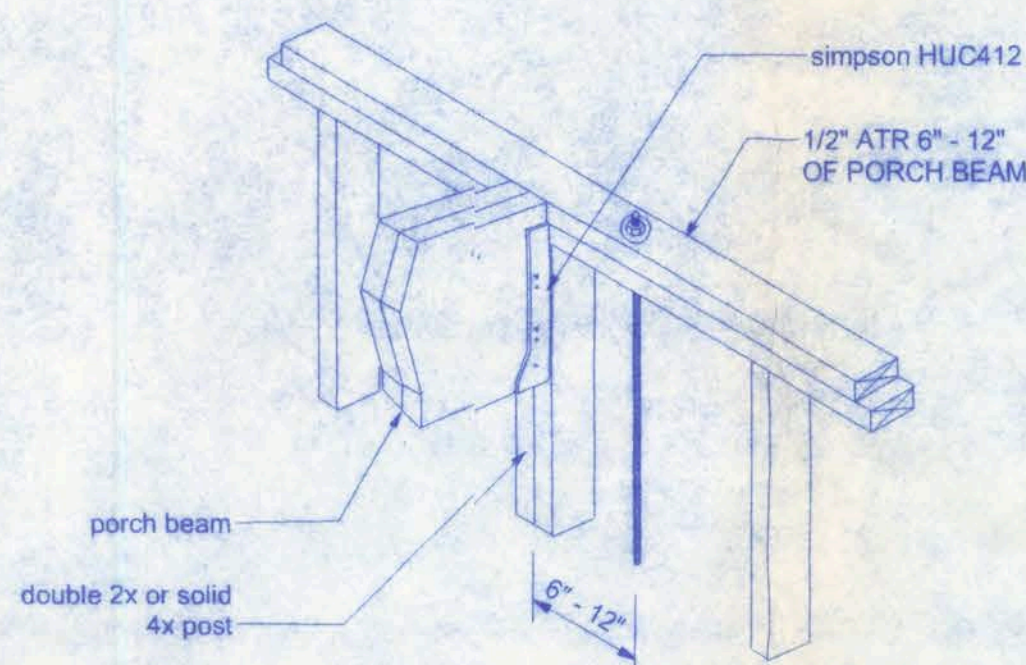


**GIRDER COLUMN DETAIL**  
SCALE: 1/2" = 1'-0"

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

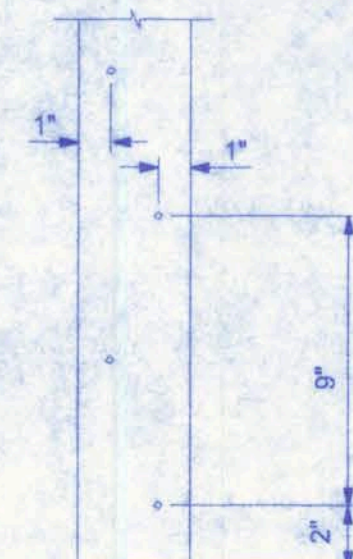
**ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS**

STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
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 - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120



**ALL THREAD @ PORCH BEAM**  
NTS

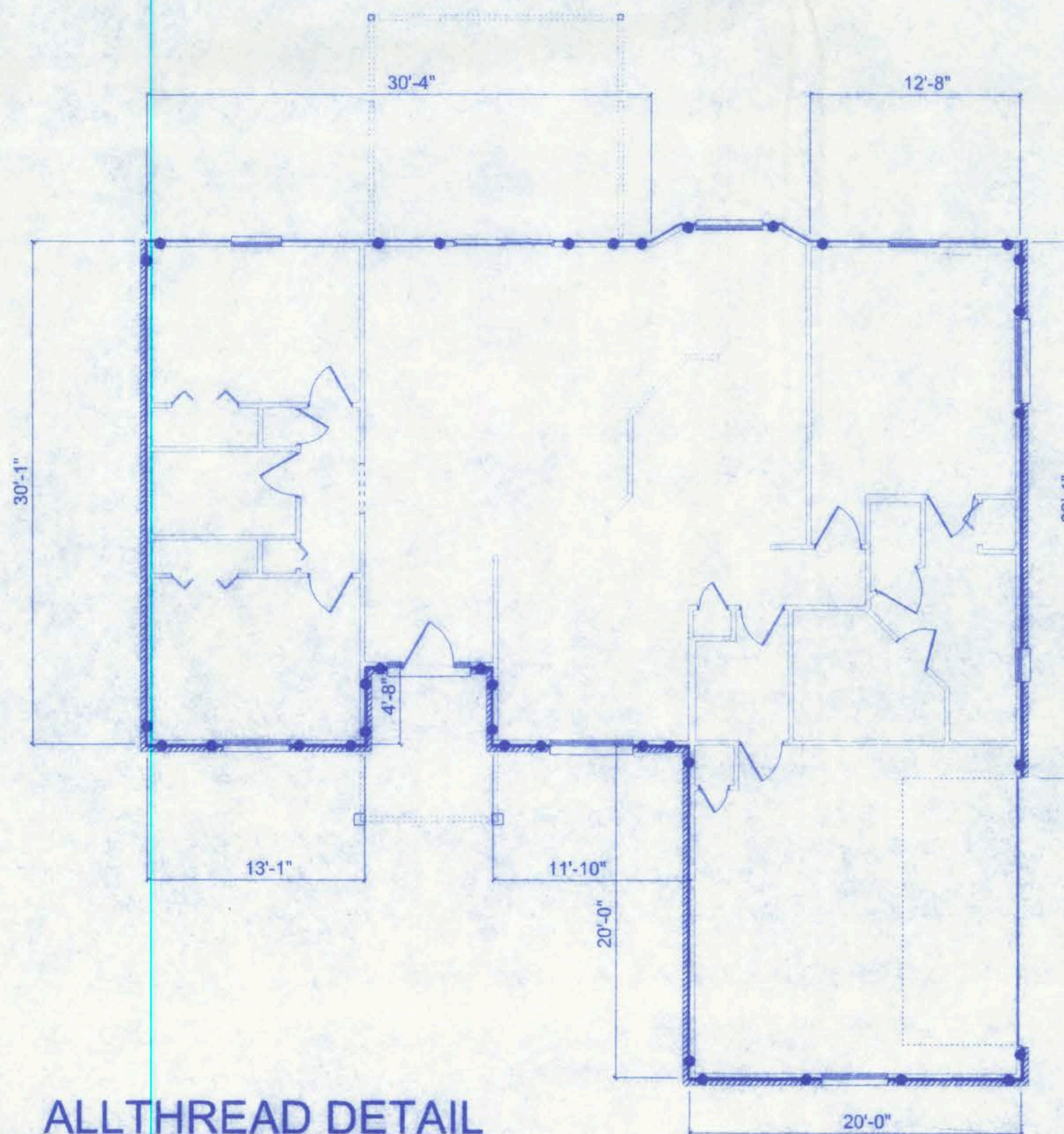
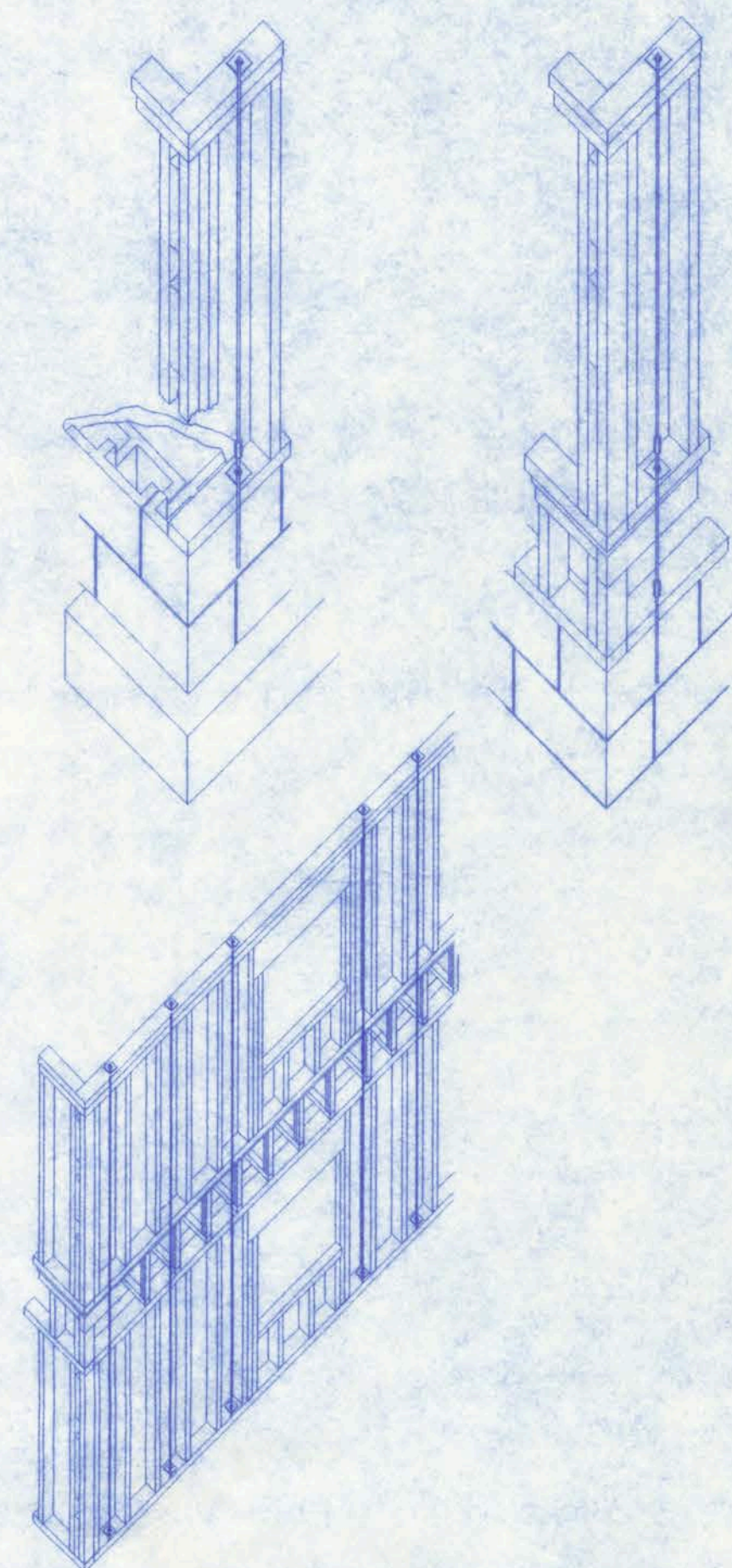
**NOTE:**  
A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED. IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM, THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.



END (TOP OR BOTTOM)

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

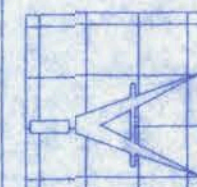
BASIC WIND SPEED	110 MPH
IMPORTANCE FACTOR	1.0
BUILDING CATEGORY	2
EXPOSURE	B
INTERNAL PRESSURE	+/- 0.18
COEFFICIENT	
COMPONENT AND CLADDING PRESSURE	WALLS +21.6/-29.1 PSF ROOF +12.5/-29.1 PSF OVERHANGS -71.6 PSF
TYPE OF STRUCTURE	ENCLOSED
ROOF DEAD LOAD	10 PSF
ROOF LIVE LOAD	20 PSF
FLOOR DEAD LOAD	20 PSF
FLOOR LIVE LOAD	40 PSF



**ALLTHREAD DETAIL**  
SCALE: 1/8" = 1'-0"  
• ALLTHREAD LOCATION

**MAYFAIR SUBDIVISION**  
**LOT #10**

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



**Freeman**  
Design Group

DATE 11/05/07  
DRAWN BY W.H.F.

**REVISIONS**

SHEET S-1

OF 1

PROJECT NO. 07.R050

CERTIFICATE OF AUTHORIZATION # 00008701

William H. Freeman  
11/6/07  
PE #56001