

CMU EMBEDD TRUSS STRAP TABLE

UPLIFT	LBS.	TRUSS CONNECTOR	MASONRY
< 1040		META20	7'-10s, 1 1/2"
< 1490		META20	10'-10s, 1 1/2"
< 1735		HETA24	14'-10s, 1 1/2"
< 1780		LG2	7'-17A, 2 1/4" TIE IN BLOCK
< 1900	(2)	META22	9'-10s, 1 1/2" EA.
< 2130		HMETA20	17'-10s, 1 1/2"
< 2310		HMETA24	21'-10s, 1 1/2"
< 3665		MGT	18'-10s, 1 1/2" THD ROD w/ 12" EMBEDMENT IN FILLED CELL

All connectors are Simpson Strongtie (u.o.c.)
NOTE: SPECIFIED NUMBER OF FASTENERS MAY BE REDUCED PER SST CATALOG.

ACTUAL NAILS
TABLE NAILS

PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C. SELECT TRUSS CONNECTORS FROM STRAP TABLE PER TRUSS UPLIFT LOADS

7/16" O.S.B. UNBLOCKED PERPENDICULAR TO FRAMING w/ EDGE SUPPORT 8d, 6" O.C. EDGE 12" O.C. FIELD 4" O.C. GABLE

1/2" GYP. 1x2 PT. FURRING INSULATION BOARD R4

8" BOND BEAM POURED SOLID (3000 PSI) CONC. REINF. W/ (1) #5 REBAR CONT. 2" FROM TOP

PRE MANUFACTURED LINTEL TO BE SIZED BY MANUFACTURER (ANY ROD LINTEL STEEL IS IN ADDITION TO BOND BEAM STEEL)

APPROVED WINDOW OF BUILDERS CHOICE

OMIT SILL FOR WINDOWS PLACED FLUSH WITH EXTERIOR SURFACE

8" MASONRY CMU

3"x3" CLEAN OUT PORT AT EACH FILL CELL TYPICAL

NOTE: VERTICAL STEEL SHOWN ON PLAN ASSUMES 30" MAXIMUM ABOVE FINISHED GRADE. INCREASE VERTICAL STEEL TO (1) #5 VERTICAL @ 4" O.C. FOR WALL HEIGHT UP TO 16'-0" ABOVE FOOTING

SEE FOOTING DETAILS

SINGLE - STORY VERTICAL WALL REINFORCING SPACING TABLE

WALL HEIGHT ABOVE FOOTING	BUILDING WIDTH					
	24'	32'	40'	48'	56'	64'
8'	8'	8'	8'	8'	8'	8'
10'	8'	8'	8'	8'	8'	8'
12'	8'	8'	8'	8'	8'	8'
14'	8'	8'	8'	8'	8'	8'

NOTES FOR TABLE:
1. ADD 2 FEET IF USING TWO No. 5 OR ONE No. 7 VERTICAL WALL REINFORCEMENT.
2. WHERE INDICATED, WHEN THE RATIO OF THE BUILDING LENGTH TO THE DISTANCE BETWEEN INTERIOR SHEARWALLS TO BUILDING WIDTH (L/W) EXCEEDS 2.0, TWO No. 5 BARS OR ONE No. 7 BAR SHALL BE PROVIDED IN BOTH END ROOF LEVELS.
3. WHERE INDICATED, THE RATIO OF THE BUILDING LENGTH TO THE DISTANCE BETWEEN INTERIOR SHEARWALLS TO BUILDING WIDTH (L/W) SHALL NOT EXCEED 2.0.

W6 - SINGLE - STORY CMU WALL SECTION

SCALE: 1/2"=1'-0" REV-08-JAN-05

PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C. SELECT TRUSS CONNECTORS FROM STRAP TABLE PER TRUSS UPLIFT LOADS

7/16" O.S.B. UNBLOCKED PERPENDICULAR TO FRAMING w/ EDGE SUPPORT 8d, 6" O.C. EDGE 12" O.C. FIELD 4" O.C. GABLE

ATTACH PORCH BEAM TO COLUMN w/ SIMPSON HHETA20

12x12 CMU COLUMN BLOCK GROUTED SOLID

(2) # 5 VERT. WITH STD HOOK IN FOOTING

4" CONCRETE SLAB 2500 - PSI @ 28 DAYS

6"x6"W1.4XW1.4 W.W.M. PLACED @ 2" DEPTH ON CHAIRS OR FIBERMESH

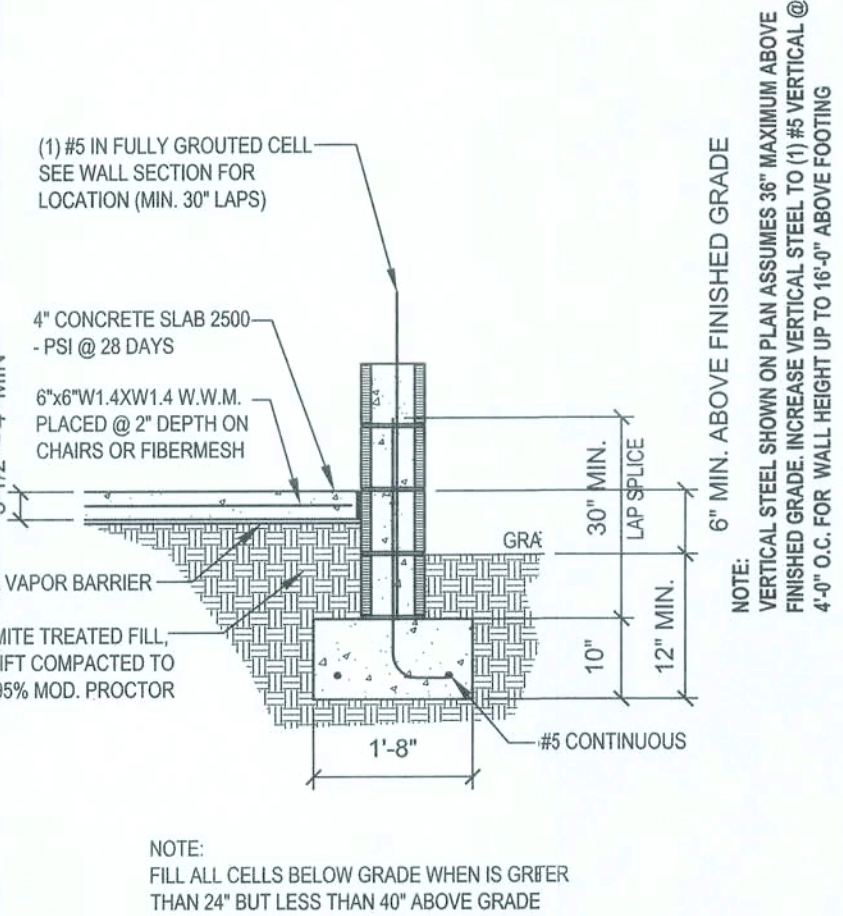
TERMITE TREATED FILL, EA. LIFT COMPACTED TO MIN 95% MOD. PROCTOR

(3) #5 EACH WAY 2'-0" X 2'-0" X 1'-0" PAD FOOTING

SEE W71 FOR BEAM SIZE

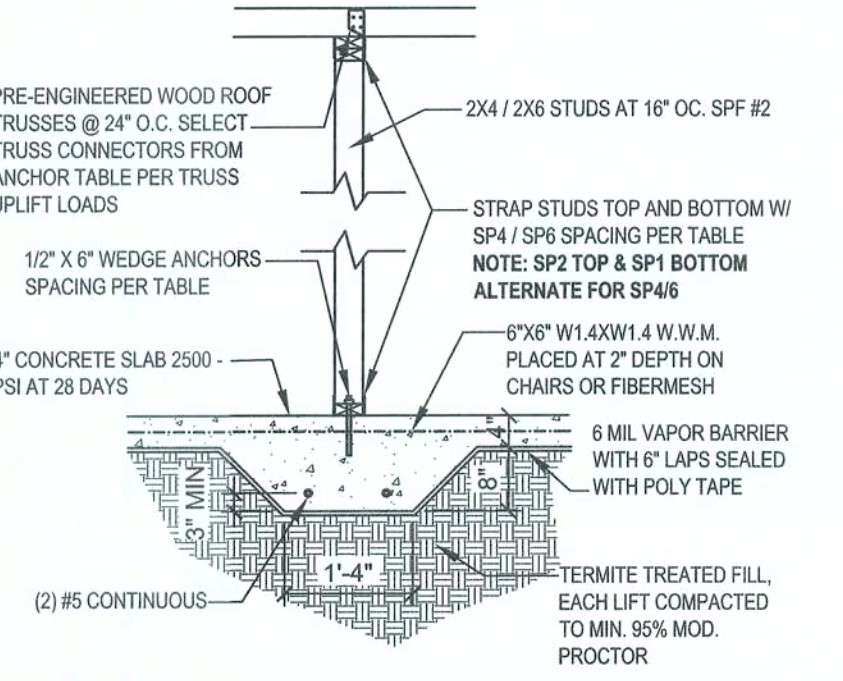
W51 - CMU PORCH COLUMN

SCALE: 1/2"=1'-0" REV-24-JUL-04



F14 - CMU WALL FOOTING - FLATING SLAB

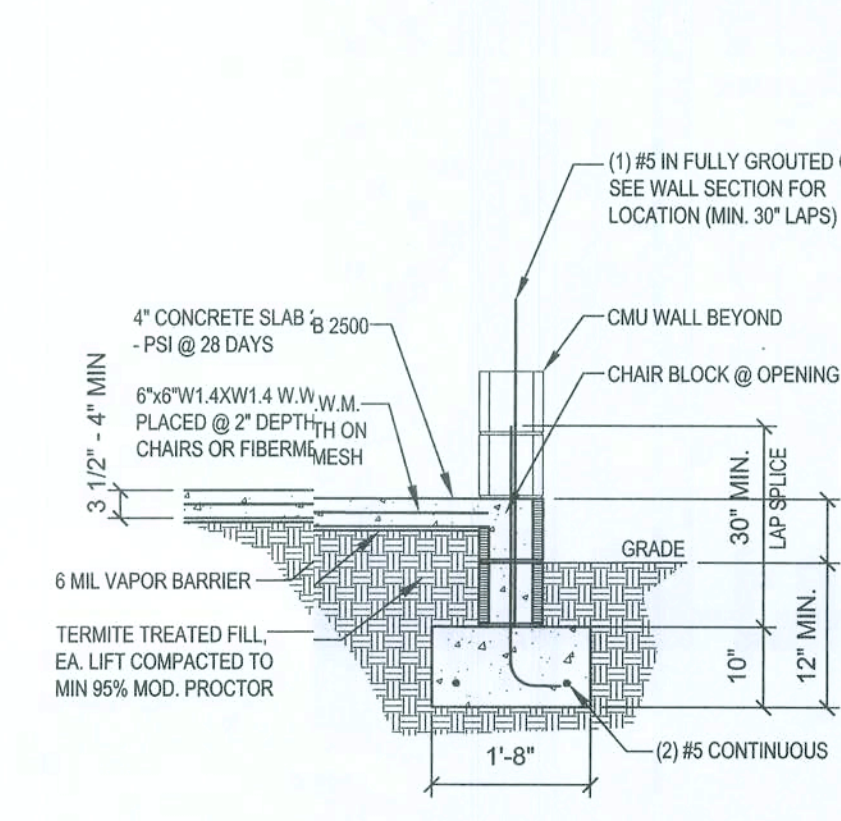
SCALE: 1/2"=1'-0" REV-08-JAN-05



TYPICAL TRUSS UPLIFT	WEDGE ANCHOR SPACING	SP4/SP5 SPACING	TRUSS CONNECTOR
400 LB	48" O.C.	48" O.C.	H25A
600 LB	48" O.C.	32" O.C.	H10
1000 LB	32" O.C.	16" O.C.	HTS20
2200 LB	LTT11 W/ 8" X 1" WEDGE ANCHOR	NA	(2) HTS20 MAILED TO STUD PACK

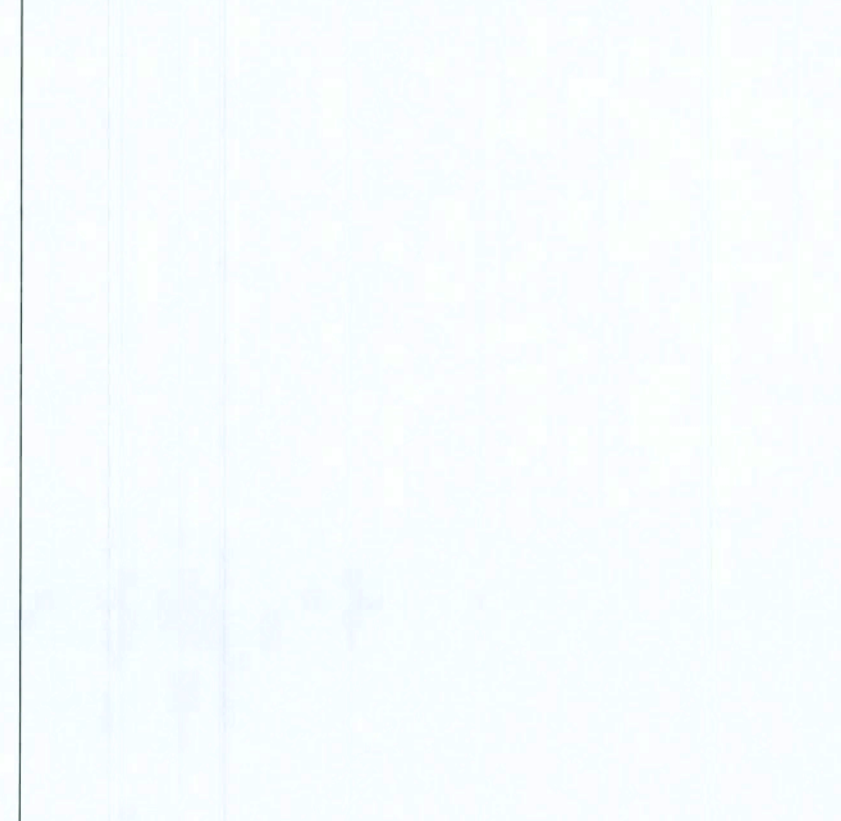
F4 - INTERIOR BEARING FOOTING

SCALE: 1/2"=1'-0" REV-22-AUG-03



F28 - CMU WALL FOOTING @ OPENING

SCALE: 1/2"=1'-0" REV-24-JUL-04



F28 - CMU WALL FOOTING @ OPENING

SCALE: 1/2"=1'-0" REV-24-JUL-04

N9-DOOR & WINDOW BUCK ATTACHMENT

TAPCON IN FACE OF CMU
2 1/2" MIN. EDGE DISTANCE
1 1/4" MIN. EMBEDMENT
3" MIN. EDGE SPACING

WINDOWS & DOORS UP TO 6'X8'

3/16" TAPCONS @ 2' O.C.
1/4" TAPCONS @ 3' O.C.

WINDOWS & DOORS UP TO 8'X12'

3/16" TAPCONS @ 16" O.C.
1/4" TAPCONS @ 24" O.C.

SLIDERS UP TO 8'X20'W

3/16" TAPCONS @ 12" O.C.
1/4" TAPCONS @ 18" O.C.

GARAGE DOOR UP TO 16'W

(2) 3/16" TAPCONS @ 16" O.C.
(2) 1/4" TAPCONS @ 24" O.C.

GARAGE DOOR UP TO 16'W

(2) 3/16" TAPCONS @ 8" O.C.
(2) 1/4" TAPCONS @ 12" O.C.
(1) 1/2" BOLT @ 32" O.C.
(1) 5/8" BOLT TAPCON @ 32" O.C.

MASONRY NOTES:

MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.

ACI 530.1-02 Section	Specific Requirements
1.4A Compressive strength	8" block bearing walls F'm = 1500 psi
2.1 Mortar	ASTM C 270, Type S, UNO
2.2 Grout	ASTM C 476, admixtures require approval
2.3 CMU standard	ASTM C 90-02, Nomal weight, Hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block.
2.4 Reinforcing bars, #3 - #11	ASTM 615, Grade 60, Fy = 60 ksi, Lap splices min 48 bar dia. (30" for #5)
2.4F Coating for corrosion protection	Anchors, sheet metalies completely embedded in mortar or grout, ASTM A325, Class 60, 0.60 oz/lb or 304SS
2.4F Coating for corrosion protection	Joint reinforcement if walls exposed to moisture or wire ties anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/lb or 304SS
3.3.E.2 Pipes, conduits, and accessories	Any not shown on the project drawings require engineering approval.
3.3.E.7 Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.

N2-GENERAL NOTES:

FOUNDATION: FOR POINT LOADS GRATER THAN 5000 LB OR REPETITIVE TRUSSLOADS GRATER THAN 2000 LB PER TRUSS PROVIDE A THICKENED SLAB OR PAD FOOTING 1'-0" D x 1 ft. FOR EVERY 1000 LB OF BEARING. REINFORCE WITH #5 @ 8" O.C. EACH WAY.

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE F'c = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER/OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, F8 = 85ksi, WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185, LOCATED IN MIDDLE OF THE SLAB, SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTHS SHALL BE 12 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 WITH ASTM C 111WHEN REQUESTED BY THE BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 308.2. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLABPLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE LEFT DO NOT CUT W/M OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, Fy = 60 KSI. ALL LAPS SPLICES 48" db (30" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-85 WITH ACI 315-96 UNLESS NOTED OTHERWISE. ALL TENSION DEVELOPMENT LENGTHS SHALL BE 30 INCHES.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64"; WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64"; WITH 7/8" BOLTS TO BE 3" x 3" x 5/16"; NO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

REV-27-JUL-04

WINDLOAD ENGINEERING

"EVERYTHING YOU NEED FOR YOUR BUILDING PERMIT"

Mark Disoway P.E.

POB 868, Lake City, FL 32056 Phone: (386)754-5419

Fax: (386) 269-4871 Email: windloadengineer@tellsouth.net

Location: Lot 15 Little Pine Farms S/D Columbia County, Florida

Bueno Residence

Builder: House Craft Homes

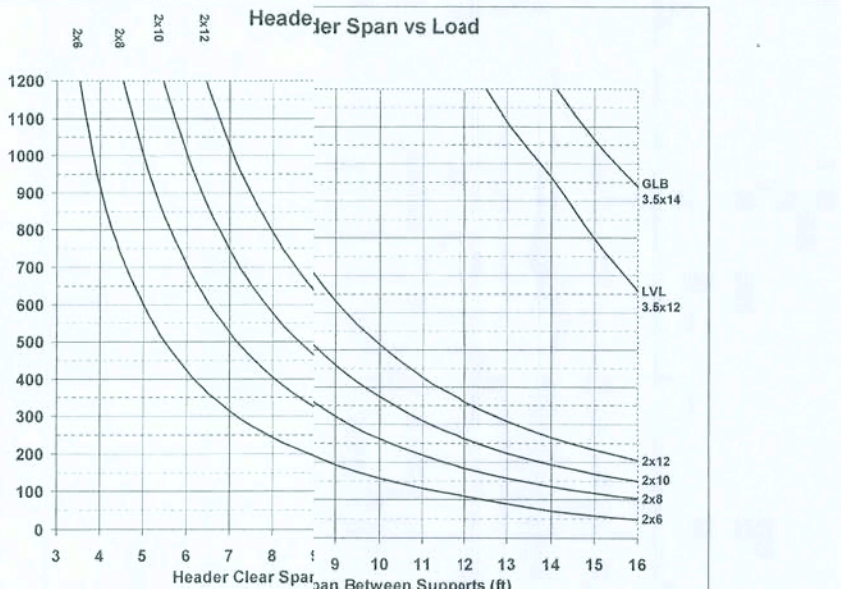
Designer: House Craft Homes

Approved: FLPER53915 Revisions:

Sheet S-1 of 1 Sheet

Windload Engineering Job #007172

20Jul09

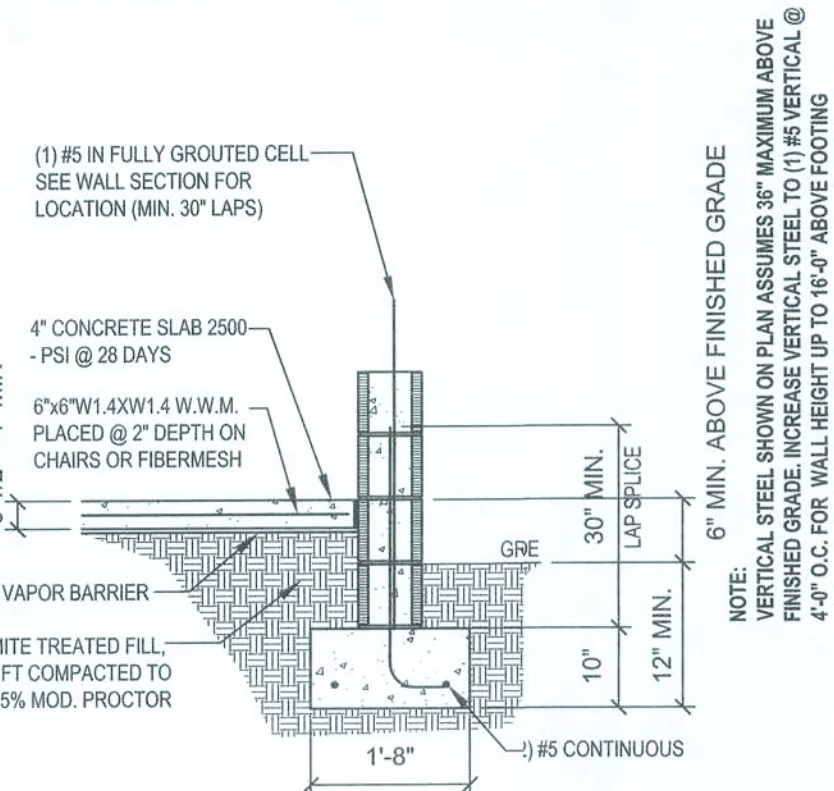
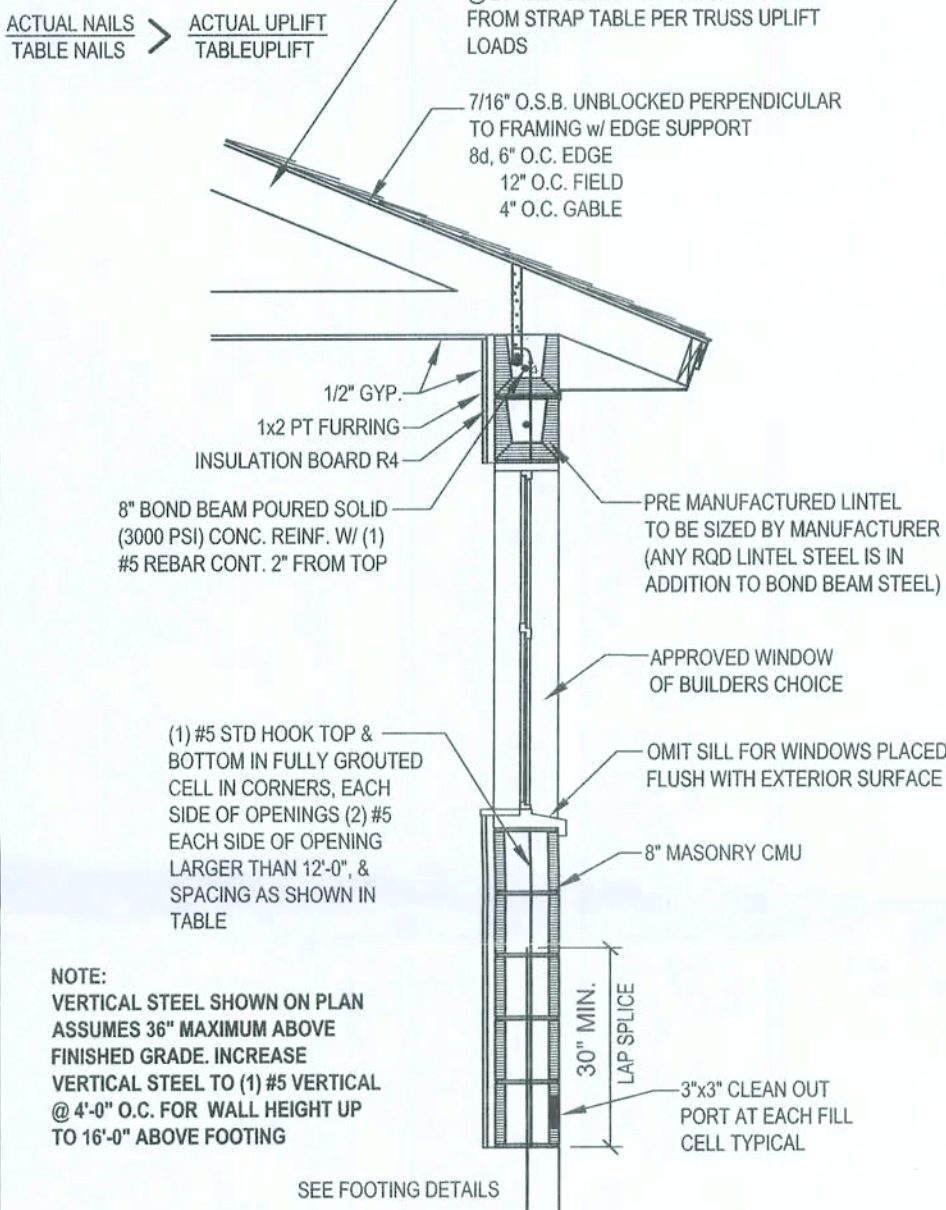


Truss Design Loading: LL = 20psf, OL = 20psf	Roof and Ceiling Load (lb/ft)
1. Jack Truss	2250
2. Pitched Truss	2250
3. 2x Trusses	2250
4. 4x Trusses	2250
5. 6x Trusses	2250
6. 8x Trusses	2250
7. 10x Trusses	2250
8. 12x Trusses	2250
9. 14x Trusses	2250
10. 16x Trusses	2250
11. 18x Trusses	2250
12. 20x Trusses	2250
13. 22x Trusses	2250
14. 24x Trusses	2250
15. 26x Trusses	2250
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155. 306x Trusses	2250
156. 308x Trusses	2250
157. 310x Trusses	2250
158. 312x Trusses	2250
159. 314x Trusses	2250
160. 316x Trusses	2250
161. 318x Trusses	2250
162. 320x Trusses	2250
163. 322x Trusses	2250
164. 324x Trusses	2250
165. 326x Trusses	2250
166. 328x Trusses	2250
167. 330x Trusses	2250
168. 332x Trusses	2250
169. 334x Trusses	2250
170. 336x Trusses	

CMU EMBEDDED TRUSS STRAP TABLE

UPLIFT LBS.	TRUSS CONNECTOR	MASONRY
< 1040	META20	7'-10d, 1 1/2"
< 1490	META20	10'-10d, 1 1/2"
< 1735	HETA24	14'-10d, 1 1/2"
< 1780	LG2	7'-1 7/8"x2 1/4" TITEN IN BLOCK
< 1900	(2) META22	9'-10d, 1 1/2" EA
< 2130	HETA20	17'-10d, 1 1/2"
< 2310	HETA24	21'-10d, 1 1/2"
< 3665	MG1	16'-10d TO TRUSS 5'-0" x 1-1/4" TIO ROD w/ 12" EMBEDMENT IN FILLED CELL

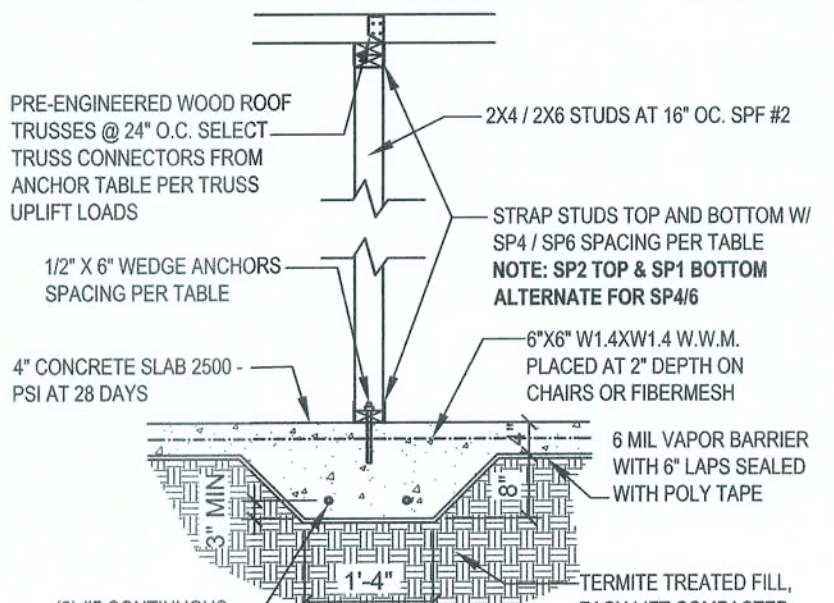
All connectors are Simpson Strongtie (u.o.)
NOTE: SPECIFIED NUMBER OF FASTENERS MAY BE REDUCED PER SST CATALOG:



NOTE:
FILL ALL CELLS BELOW GRADE WHEN IS GRATER THAN 24\"/>

F14 - CMU WALL FOOTING - FDATING SLAB

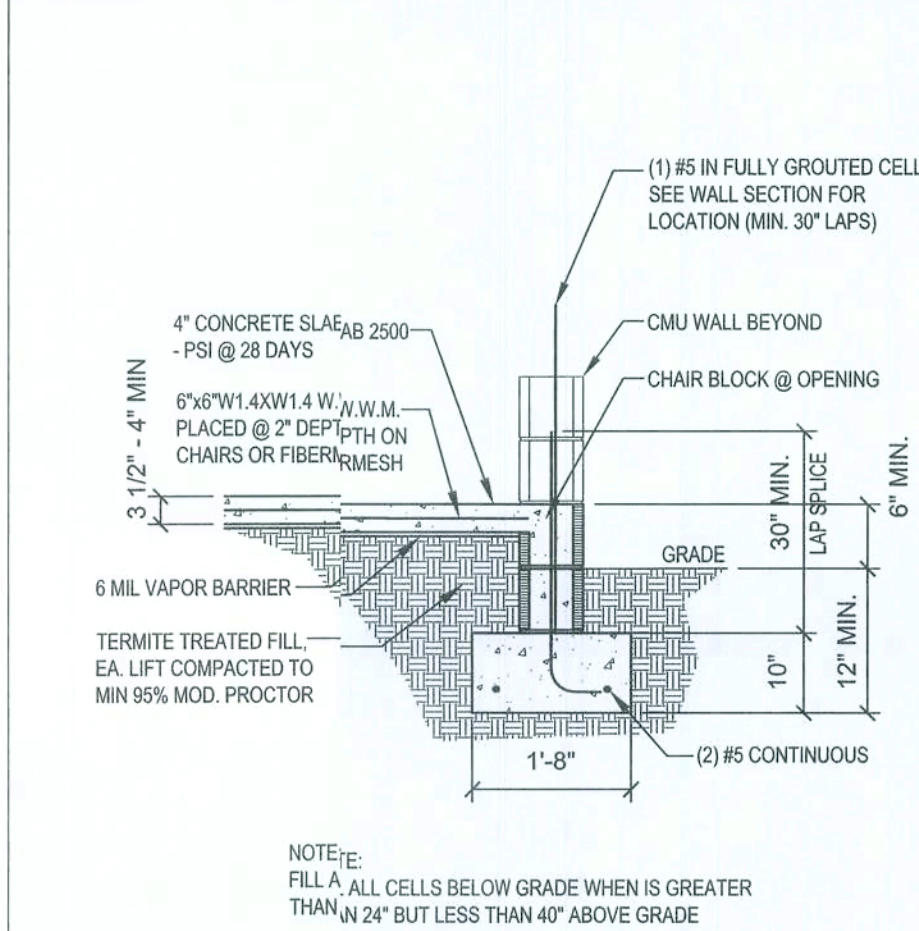
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TYPICAL TRUSS UPLIFT	WEDGE ANCHOR SPACING	SP4 / SP5 SPACING	TRUSS CONNECTOR
400 LB	48" O.C.	48" O.C.	H2.5A
600 LB	48" O.C.	32" O.C.	H10
1000 LB	32" O.C.	16" O.C.	HTS20
2200 LB	1.75" W 5/8" X 7" WEDGE ANCHOR	N/A	(2) HTS20 NAILED TO STUD PACK

F4 - INTERIOR BEARING FOOTING

SCALE: 1/2\"/>



F28 - CMU WALL FOOTING @ OPENING

SCALE: 1/2\"/>



F28 - CMU WALL FOOTING @ OPENING

SCALE: 1/2\"/>

N9-DOOR & WINDOW BUCK ATTACHMENT

TAPCON IN FACE OF CMU
2 1/2\"/>

WINDOWS & DOORS UP TO 6\"/>

3/16\"/>

WINDOWS & DOORS UP TO 8\"/>

3/16\"/>

SLIDERS UP TO 6\"/>

3/16\"/>

GARAGE DOOR UP TO 10\"/>

(2) 3/16\"/>

(2) 1/4\"/>

GARAGE DOOR UP TO 16\"/>

(2) 3/16\"/>

(2) 1/4\"/>

(1) 1/2\"/>

(1) 5/8\"/>

MASONRY NOTES:

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	ACI530.1-02 Section	Specific Requirements
1.4A	Compressive strength	8\"/>
2.1	Mortar	ASTM C 270, Typ N, UNO
2.2	Grout	ASTM C 476, admixtures require approval
2.3	CMU standard	ASTM C 90-02, Nomral weight, Hollow, medium surface finish, 8\"/>
2.4	Reinforcing bars, #3 - #11	ASTM 615, Grade 60, Fy = 60 ksi, Lap splices min 48 bar dia. (30\"/>
2.4F	Coating for corrosion protection	Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class 660, 660 oz/lb or 304SS
2.4F	Coating for corrosion protection	Joint reinforcement in walls exposed to moisture or wire tie, anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153 Class B2, 1.50 oz/lb2 or 304SS
3.3.E.2	Pipes, conduits, and accessories	Any not shown on ne project drawings require engineering approval.
3.3.E.7	Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project rawnings.

N2-GENERAL NOTES:

FOUNDATION: FOR POINT LOADS GRATER THAN 5000 lb OR REPETITIVE TRUS LOADS GRATER THAN 2000 lb PER TRUSS PROVIDE A THICKENED SLAB OR PAD FOOTING 1'0\"/>

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE Fc = 3000 PSI. WHERE EXCESS WATER IS ADDED TO THE CONCRETE SO THAT ITS SERVICABILITY IS DEGRADED, THE ATTAINMENT OF REQUIRED STRENGTH SHALL NOT RELEASE THE CONTRACTOR FROM PROVIDING SUCH MODIFICATIONS AS MAY BE REQUIRED BY THE ENGINEER TO PROVIDE A SERVICEABLE MEMBER OR SURFACE. ALL CONCRETE SHALL BE VIBRATED. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND APPROVAL OF THE ENGINEER, OWNER OR HIS REPRESENTATIVE.

WELDED WIRE REINFORCED SLAB: 6\"/>

FIBER CONCRETE SLAB: 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 MANUFACTURERS RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C 1111. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE CERTIFICATION OF COMPLIANCE WITH ASTM C 116 WHEN REQUESTED BY THE BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12 FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, Fy = 60 KSI. ALL LAP SPICES 48\"/>

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURERS CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURERS INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

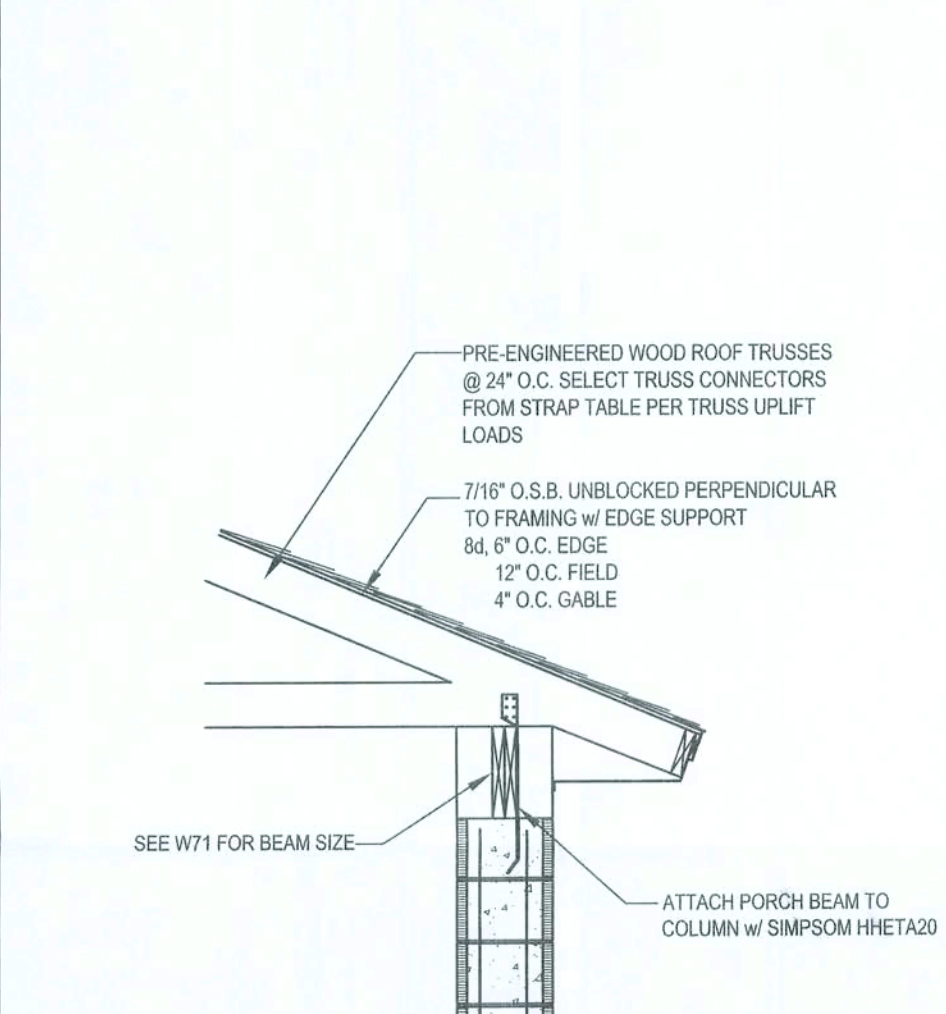
ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7\"/>

WASHERS: WASHERS USED WITH 1/2\"/>

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

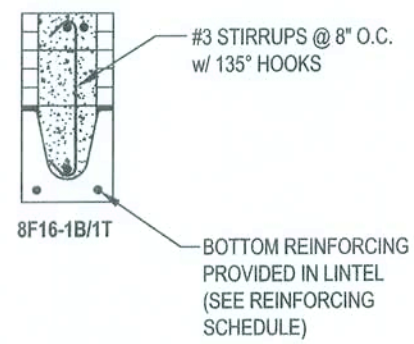
W6 - SINGLE - STORY CMU WALL SECTION

SCALE: 1/2\"/>

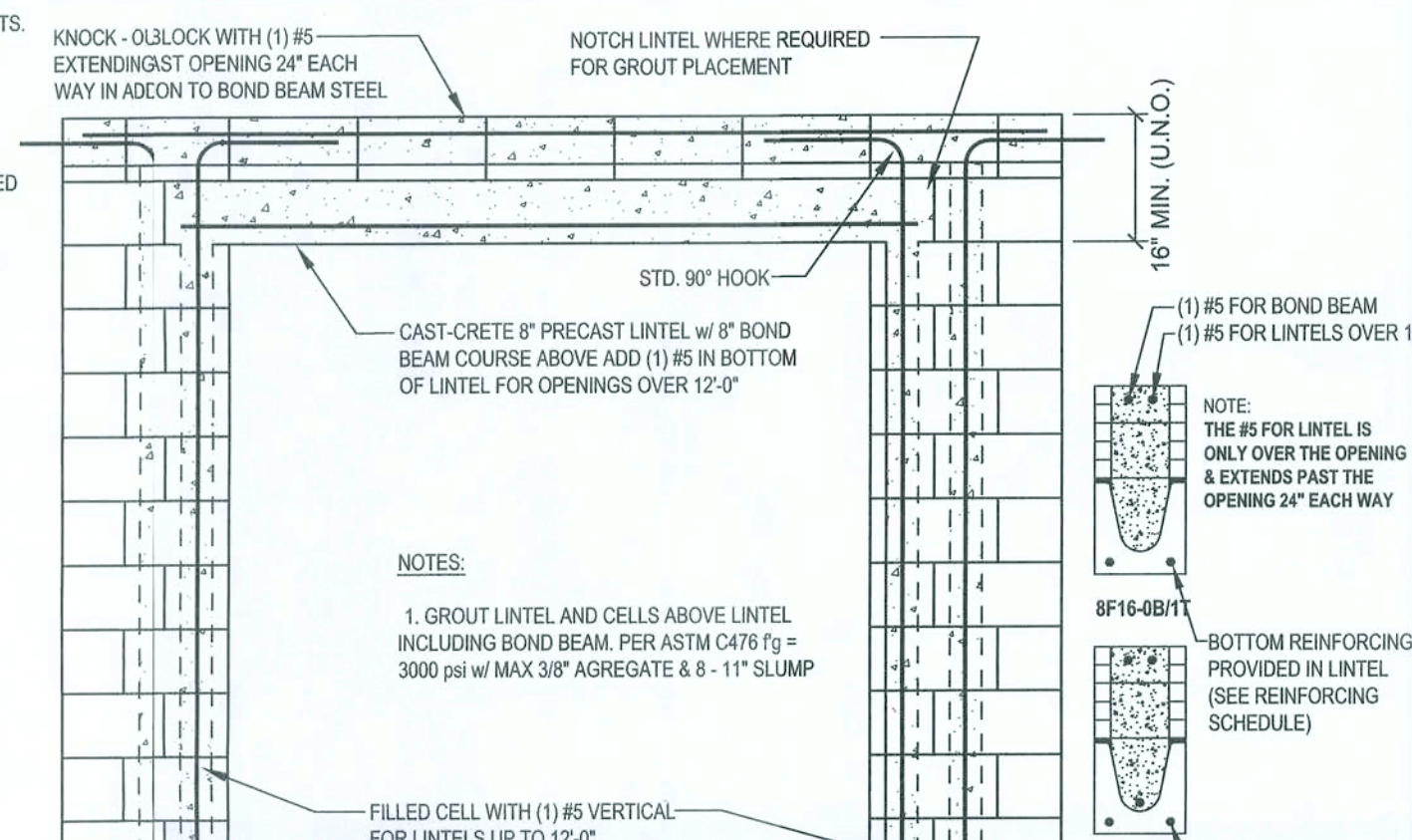


- SET PRECAST LINTEL IN FULL HEAD & BED JOINTS.
- GROUT ALL REINFORCED CELLS
- PLACE BOTTOM REBAR IN LINTEL IF REQUIRED.
- AVERAGE TRUSS GRAVITY LOAD NOT TO EXCEED 1900 lb FOR OPENINGS TO 16'-0"
- MAXIMUM TRUSS LOAD NOT TO EXCEED 3000 lb W/O ENGINEERING DESIGN OF LINTEL

- STIRRUPS NOT REQUIRED IF ABOVE CONDITIONS ARE MET. IF THE ABOVE CONDITIONS ARE NOT MET SEE DETAIL BELOW AND PLAN

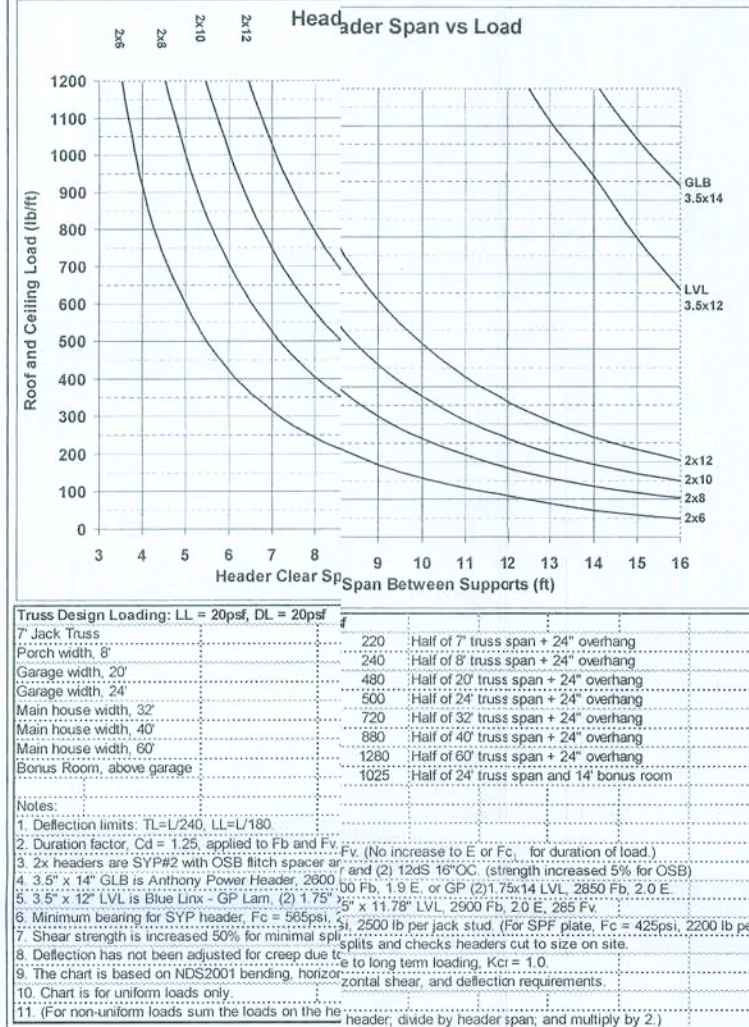


LENGTH	BOTTOM STEEL
UP TO 5'-10"	(2) - #5 REBAR
UP TO 10'-6"	(2) - #4 REBAR
UP TO 14'-0"	(2) - #5 REBAR
UP TO 19'-4"	(2) - #716 STRAND



W2 - TYPICAL FILLED LINTEL ASSEMBLY DETAIL

SC: 1/2\"/>



W1 - HEADER SPANS FOR ROOF/CEILING LOAD

N5 - TRUSS UPLIFT CONNECTOR TABLE				REV-18-NOV-04	
All connectors are Simpson Strong-Tie. Use Select top and bottom connections from this table or SST catalog to meet truss uplift. Use fasteners as specified.					
Uplift SPF	Uplift SYP	Truss Connector	To Plate	To Truss / Rafter	
320	455	H3	4-8d	4-8d	
245	350	HA	3-8d	3-8d	
535	600	H2 SA	5-8d	5-8d	
620	720	H10	6-10dx1 1/2"	6-10dx 1 1/2"	
850	960	LT512	8-8dx1 1/2"	8-8dx 1 1/2"	
1245	1450	HTS20	10-10d or 12-10dx1 1/2"	10-10d or 12-10dx 1 1/2"	
1265	1470	H18, H16-S	10-10dx 1 1/2"	2-10dx 1 1/2"	
1785	2050	LG2	14-10d Sinker	16-16d Sinker	
3655	4200	MG1	3/4" Thd Rod	22-10d	
SPF	SYP	Strap Connector	To One Member	To Other Member	
760	885	SP4	6-10dx1 1/2"	N/A	
965	1005	CS20	9-8d or 7-10d	9-8d or 7-10d	
1095	1265	LSTA18-24	7-10d	7-10d	
1170	1360	SPH4	12-10dx 1/2"	N/A	
420	455	SSP	4-10d	3-10d to double plate or 1-10d to single	
600	825	DSP	8-10d	6-10d to double plate or 2-10d to single	
1420	1650	CS16	14-8d or 11-10d	14-8d or 11-10d	
SPF	SYP	Column Anchor	To Foundation	To Column / Truss	
1180	1350	LTT19	3/4" x 16" AB	8-16d Sinker	
1985	2310	LTT31	3/4" x 16" AB	18-10dx 1 1/2"	
2385	2775	HD2A	3/4" x 16" AB	3/4" Bolts	
3590	4175	HTT16	3/4" x 16" AB	18-16d	
7975	2200	ABU66	3/4" x 16" AB	12-16d	

Shade Specified. Trusses: The bottom is supported 3000 or 300in. Check the labels for load.

For use on gable roofs, but not required on any 2nd and 3rd story framing locations for each member of the truss and top plate (SPF or LSTA18-24/26/28/30).

Manufacturer and product number names are listed for reference only. They are not intended to endorse any particular manufacturer. The equivalent specs of the same or other manufacturers can be substituted. Any use of the manufacturer's name is for identification purposes only. The user is responsible for determining the proper fasteners and their quantities for each application. Loads are increased for wind only in the mountain and hill design categories after fabrication. Loads are increased for wind only in the mountain and hill design categories after fabrication. Loads are increased for wind only in the mountain and hill design categories after fabrication. Loads are increased for wind only in the mountain and hill design categories after fabrication. Loads are increased for wind only in the mountain and hill design categories after fabrication. Loads are increased for wind only in the mountain and hill design categories after fabrication. 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Shall Supporting Trusses: The builder is responsible for gravity loads, but should put on extra 2x4 4x8d under truss bearing location for each 1000 lb of reaction. Check the relationship between truss and plate (SPF, Fc=2099x2208Npp). Manufacturer's product number are listed for example not endorsement. An equivalent device of the same or other manufacturer can be substituted for any devices listed in the example tables as long as it meets the required load capacities. Manufacturer's installation instructions must be followed to achieve rated loads. All connectors exposed directly to the weather shall not be galvanized after fabrication. Loads are increased for wind duration. Strap uplift may be reduced proportionally to number of rails. See spec sheet for alternate nail sizes (16d-8d-16d, 10dx12-8d-16d, 16dx16-16d sizes). SPF=48-250

N4-WIND LOAD DESIGN DATA	
4)(Wind loads are per FBC 2007, Section 1609 for enclosed simple diaphragm buildings with mean roof height less than 60' or the least horizontal dimension; not sited on the upper half of an unconstructed 60' high hill with >10% slope.)	
Basic Wind Speed	110 MPH
Wind Exposure	B
Wind Importance Factor	1.0
Building Category	II
Internal pressure Coefficient	N/A (Enclosed)
Building not in the high velocity hurricane zone	
Building not in the wind-borne debris region	
Mean Roof Height	< 30 ft
Roof Angle	10-45 degrees
Size headers for gravity loads; headers sized by the builder for gravity loads will also satisfy wind loads.	
Components And Cladding Wind Pressures (FBC Table 1609 B&C)	
Zone	Effective Wind Area (ft2)
	10 100
4	21.8 123.6 18.5 120.4
5	21.8 129.1 18.5 122.6
Required	Transverse 18.0' Longitudinal 18.0'
Actual	37.3' 64.6'

N3-WINDLOAD ENGINEER'S SCOPE OF WORK: The wind load engineer is engineer of record for compliance of the structure to wind load requirements of FBC 2007, Section 1609. If trusses are used, the wind load engineer is not engineer of record for the trusses and did not design the trusses or delegate to the truss designer.

BUILDER'S RESPONSIBILITY: The builder and owner are responsible for the following, which are specifically not part of the wind load engineer's scope of work.

- * Confirm that the foundation design & site conditions meet gravity load requirements (assume 1000 PSF bearing capacity unless visual observation or soils test proves otherwise.
- * Provide materials and construction techniques, which comply with FBC 2007 requirements for the stated wind velocity and design pressures.
- * Provide a continuous load path from the roof to foundation. If you believe the plan omits a continuous load path connection, call the wind load engineer immediately.
- * Verify the truss engineering includes truss design, placement plans, temporary and permanent bracing details, truss-to-truss connections, and load reactions for all bearing locations.
- * Select uplift connections, walls, columns, and footings based on truss engineering bearing locations and reactions, including internal bearing walls.
- * Size headers for gravity loads; headers sized by the builder for gravity loads will also satisfy wind loads.

DOCUMENT CONTROL AND PRIORITY: Structural requirements on S-1 control unless the building code or architectural sheets have more stringent requirements. Non-structural requirements on architectural sheets control. Specific requirements take precedence over general requirements. Revision control is by the latest signature date and is the responsibility of the builder.

COPYRIGHTS AND PROPERTY RIGHTS: Mark Disoway, P.E. hereby expressly reserves its common law copyrights and property right in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Disoway.

DESIGNATIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.

WINDLOAD ENGINEER: Mark Disoway, PE No.53915

CERTIFICATION: The attached plans and "Windload Engineering", sheet S-1, comply with FBC 2007, Section 1609 wind loads, to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location. This drawing is not valid for construction unless raised seal is affixed.

W51 - CMU PORCH COLUMN

SCALE: 1/2\"/>

W30 - WOOD PORCH HEADEFAT CMU WALL

SCALE: 1/2\"/>

W21 - TYPICAL BOND BEAM CORNER DETAIL

SCALE: 1/2\"/>

REV-27-JUL-04

WINDLOAD ENGINEERING

"EVERYTHING YOU NEED FOR YOUR BUILDING PERMIT"

Mark Disoway P.E.

POB 868, Lake City, FL 32056 Phone: (381) 754-5419

Fax: (386) 269-4871 Email: windloadengineer@bellsouth.net

Location: Lot 15 Little Pine Farms S/D Columbia County, Florida

Bueno Residence

Builder: House Craft Homes

Designer: House Craft Homes

Approved: FLEP653915

Revisions:

200609

Sheet S-1 of ' Sheet

Windload Engineering

Job #907-72

REV-06-OCT-03

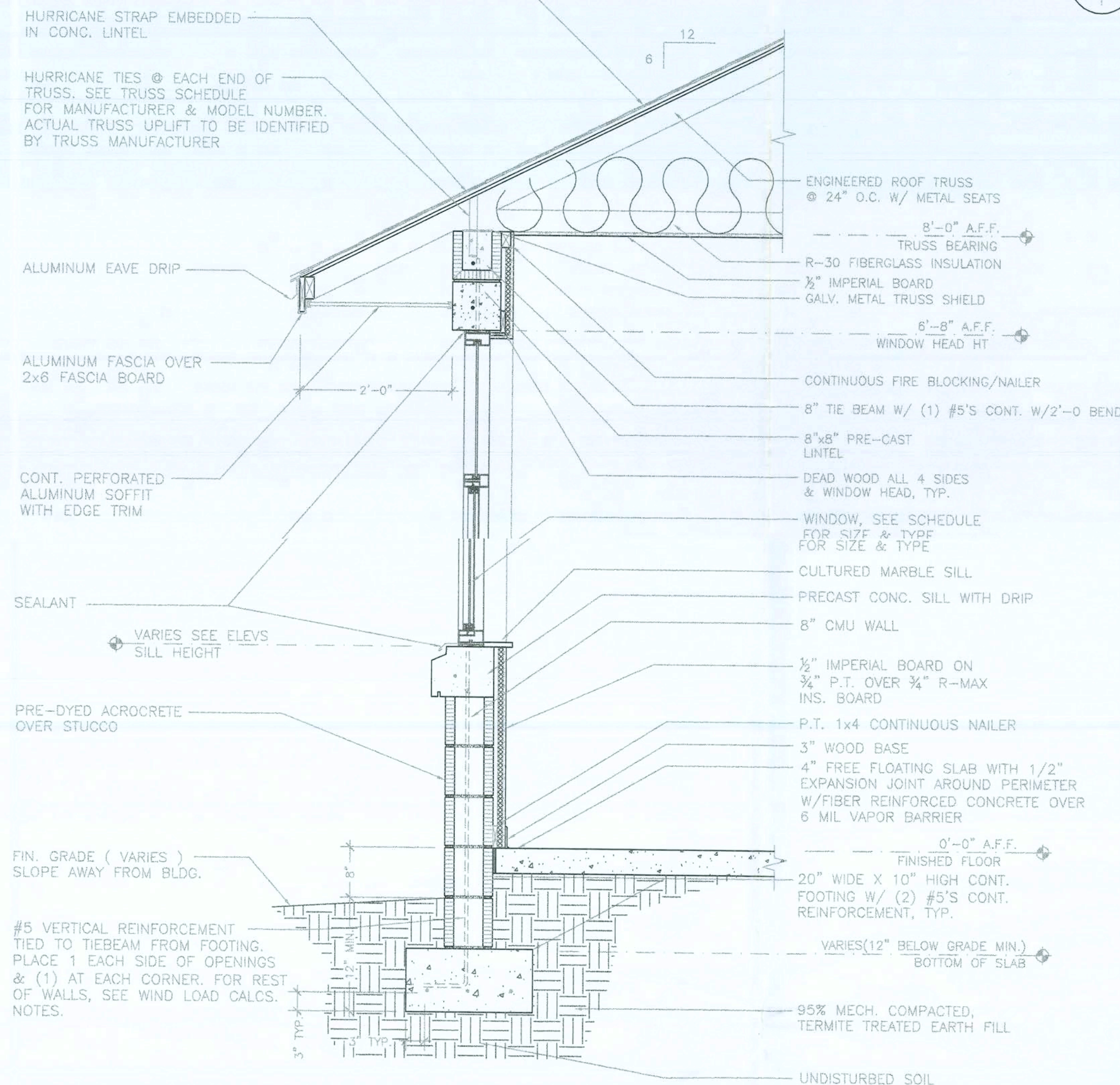
REV-27-Jun-03

FIBERGLASS SHINGLES OVER 15 LB. FELT
(ON 25 YR. ARCH SHINGLES) OVER 1/2" OSB
NOTE: ALL SHINGLES ARE FUNGUS RESISTANT

TYPICAL WALL SECTION

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

1
1

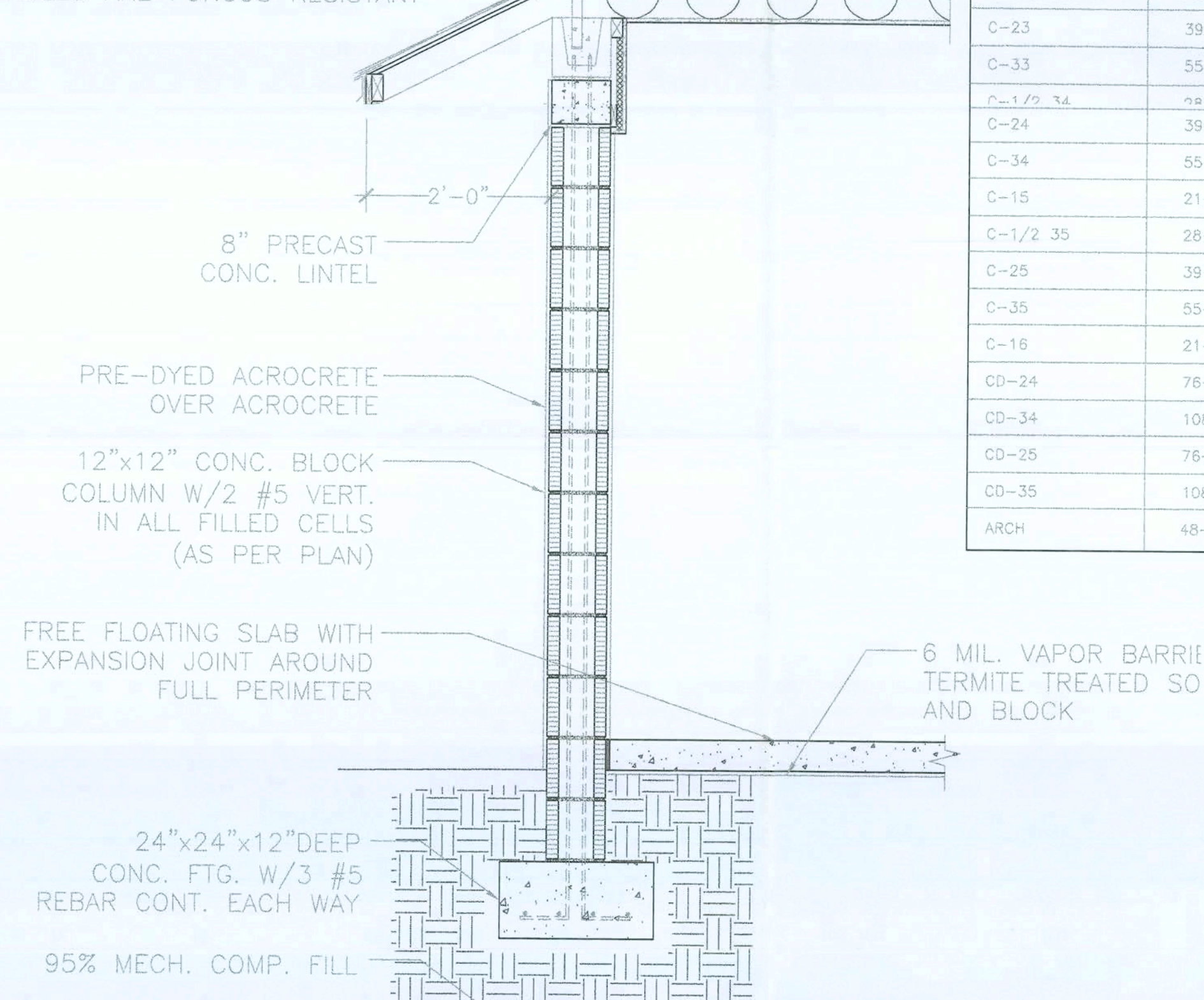


TYPICAL COLUMN SECTION

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

2
1

FIBERGLASS SHINGLES OVER 15 LB. FELT
(ON 25 YR. ARCH SHINGLES) OVER 1/2" OSB
NOTE: ALL SHINGLES ARE FUNGUS RESISTANT



ROUGH MASONRY/FRAME OPENING SCHEDULE	
COMMODITY SIZES	ROUGH OPENING (WxH)
UNIT CALL SIZE	1/2" FLANGE MASONRY (2BY)
C-1/2 32	28-3/4x26-7/8
C-32	55-3/8x26-7/8
C-1/2 33	28-3/4x39-1/8
C-23	39-1/4x39-1/8
C-33	55-3/8x39-1/8
C-1/2 34	28-3/4x51-1/2
C-24	39-1/4x51-1/2
C-34	55-3/8x51-1/2
C-15	21-3/8x63-7/8
C-1/2 35	28-3/4x63-7/8
C-25	39-1/4x63-7/8
C-35	55-3/8x63-7/8
C-16	21-3/8x77-5/8
CD-24	76-1/4x51-1/2
CD-34	108-1/2x39-1/8
CD-25	76-1/4x63-7/8
CD-35	108-1/2x63-7/8
ARCH	48-1/4x37-1/2

LINTEL SCHEDULE

MASONRY OPENING	LINTEL MARK	LINTEL WIDTH	LINTEL HEIGHT	TOP BARS	BOTTOM BARS
up to 4'6"	A	7 5/8"	16"	none	(2) #3
up to 9'	B	7 5/8"	16"	(2) #2	(2) #4
9' Front Window	*B	7 5/8"	16"	(2) #4	(2) #6
16' Garage Door	*B	7 5/8"	16"	(2) #4	(2) #6

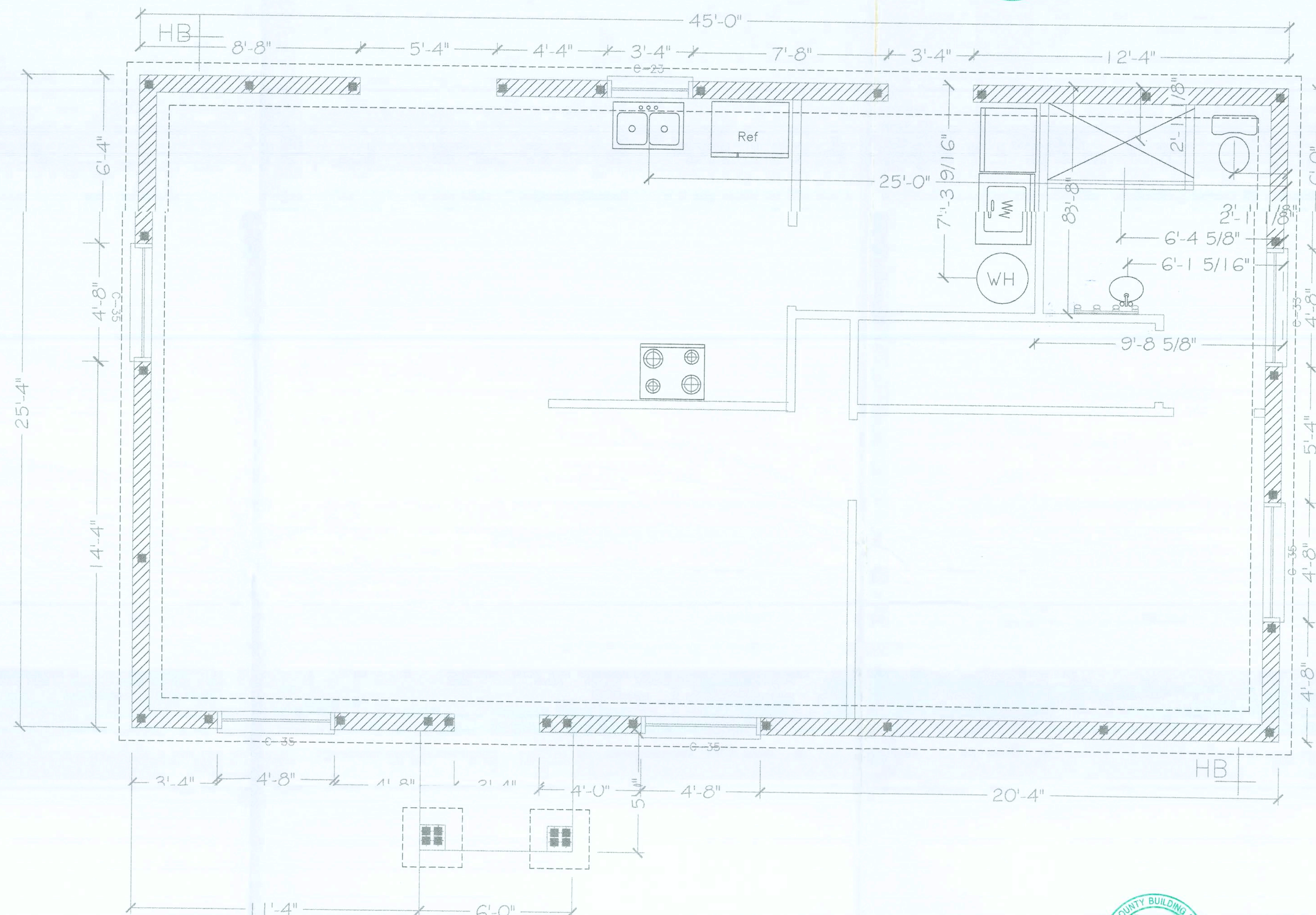
SHEAR WALLS QUANTITY

TRANSVERSAL SHEARWALLS = 00'-0"

LONGITUDINAL SHEARWALLS = 00'-0"

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT:	TYPE:	SIZE/RATING:
AIR COND.	ELEC	30 CAP./13 SEER
HEATING	ELEC	30 CAP./8 SEER
WATER HEATER	ELEC	40 GAL./0.92 EFF.



FOUNDATION PLAN

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



HOUSE CRAFT HOMES, L.L.C.
12501 NW U.S. Hwy. 441 - Alachua, FL 32615
Phone: (386) 462-5323/FAX: (386) 462-1509

Job name: BUENO

Model: CUSTOM Type: FOUNDATION

Location: Columbia County Drawn By: J.D.H.

Checked By: J.D.H. Revision Date: 5/5/08

Scale: 3/8"=1' Date: 7/9/09 Sheet: 1 of 3



HOUSE CRAFT HOMES, L.L.C.

12501 U.S. Highway 441 - Alachua, FL 32615 Phone: (904) 462-5323/FAX: (904) 46-1509

Client Name: BUENO Model: PASCO

BANK: CASH LOAN TYPE: ☐ Cash
☒ Conventional
☐ F.H.A.
☐ V.A.

CABINET COLOR SELECTIONS:

Kitchen: Countertop 703 SAHARA Toilets Colr BISQUE
Cabinet Base FLORENCE NATURAL ALABASTER Master Master
Master Bath: Countertop 401 RECESSED OVAL Hall Hall
Cabinet Base VENT HOOD FAN Other Other
Hall Bath: Countertop
Cabinet Base

NOTES:
VENT HOOD FAN

BATHROOM TILE SELECTION:

Master Bath: Color Tub Choices Pum.
Shower Master CORNER NO
Shower Floor Hall STEEL NO
Grout Bath 3
Hall Bath: Tub Surround
Tub Surround Tile Selection
Tile Selection Grout

VAULTS:

AS PER PLAN

CARPET 00732 CHANTRELLE VINYL/FLOOR TILE

PAINT SELECTIONS:

Interior Wall Color STANDARD
Interior Trim

Window Sills:
☐ Wood
☒ Flatcut Marble
☐ Hardiplank Siding Wod Sill

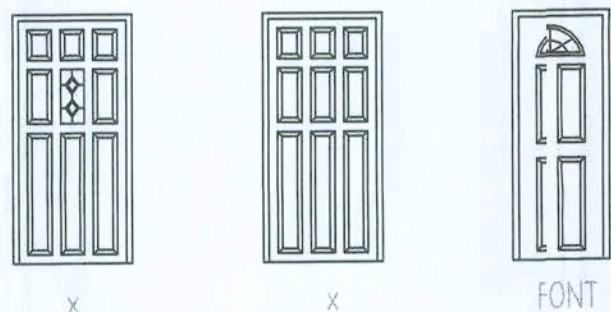
RANGE SELECTIONS:

Range/Color HOMEOWNER SUPPLY
Hood/Color

OPTIONAL APPLIANCES:

EXTERIOR FEATURE SELECTIONS:

Acrocrete/Main House
Trim Package
Trim Color
Exterior Door Colors WHITE
Siding
Soffit WHITE
Shingles GLACIER WHITE ARCH
Style/Color
Window Color WHITE
Trim Type Colonial w/Classique Doors Std.
Colonial Grills Front Windows Standard



BATH WINDOWS:

Master ☐ Obscure ☒ Clear Glass
Hall ☐ Obscure ☐ Clear Glass

SUPER Energy Pac: Yes ☐ No ☒
Septic Allowance Yes ☒ No ☐

Extras:

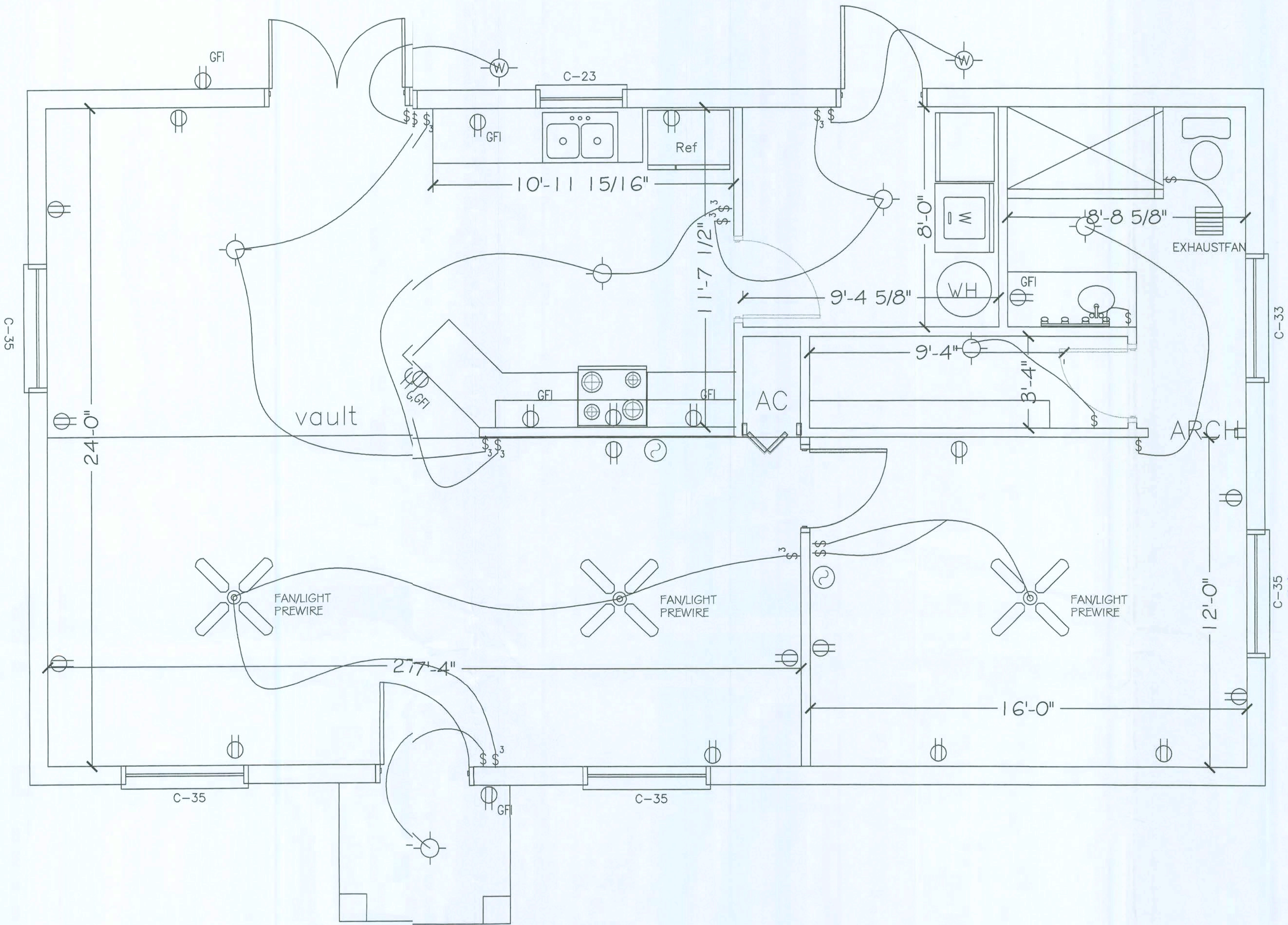
Power Company: CLAY ELECTRIC ☐ Overhead ☒ Underground

Fireplace Screenroom Color

We have reviewed this plan and all notes on it. All items we have discussed with House Cft and its representatives are indicated on this "Master Copy". We understand that any additional items that are not on this print can be done for a \$250.00 plan change fee plus the cost of the change.

Purchaser: Date:

REV. DESCRIPTION DATE



FLOOR PLAN

SCALE: 3/8"=1'-0"

LIGHTING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION
	SURFACE MOUNTED INCANDESCENT FIXTURE
	PRE-WIRED CEILING FAN
	DOUBLE FLOOD LIGHT FIXTURE
	FAN LIGHT VENTED TO EXTERIOR
	SURFACE MOUNTED INCANDESCENT FIXTURE

TYPICAL SPECIAL CIRCUIT ELECTRIC SCHEDULE

TWO GFI's CIRCUITS IN KITCHEN
ONE OR TWO GFI's IN BATHS LOOPED TOGETHER
GFI IN GARAGE, FRONT ENTRY, AND REAR PORCH LOOPED TOGETHER
ONE GFI FOR JETTED TUB (OPTIONAL)
TWO AFC CIRCUITS PROVIDED FOR BEDROOMS

CODE COMPLIANCE - This building is designed in compliance with the requirements of the Florida Building Code, 2004, 2007. Structural members, cladding, fasteners and systems providing for the structural integrity of the building are designed to resist gravity loads prescribed in Chapter 16 and wind loads prescribed in Section 16 and wind loads prescribed in Section 1609.6 Simplified Provisions for Low Rise Building

DESIGN LOADS

a. Uniformly Distributed Live Loads		(Section 1604.1)
Floor Live Load	na	psf
b. Roof Live Loads		(Section 1604.6)
6:12 Pitch	16	psf
c. Wind Loads		(Section 1606.2)
1.) Enclosure Classification	Enclosed	
2.) Basic Wind Speed (3 second gust)	110	mph
3.) Wind importance Factor, Iw	1.0	
4.) Exposure Category	B	
5.) Internal Pressure Coefficients:	+0.18, -0.18	
6.) Design Wind Pressures for Doors and Windows	Opening Area (sf)	Inward Pressure (psf)
	0-10	21.8
	11-20	20.8
	21-50	19.5
	51-100	18.5
		Outward Pressure (psf)
		-29.1
		-27.2
		-24.6
		-22.6

ELECTRICAL LEGEND

- 44" DUPLEX CONVENIENCE RECEPTACLE WITH GROUND (44" DENOTES HEIGHT A.F.F., IF OTHER THAN STD.) (GFI/GFCI DENOTES GROUND FAULT CIRCUIT INTERRUPTER) (WP DENOTES WEATHER PROOF)
- SPECIAL RECEPTACLE WITH GROUND, SEE SPECIFICATIONS
- SINGLE POLE SWITCH AT STANDARD HEIGHT
- THREE WAY SWITCH AT STANDARD HEIGHT
- TELEPHONE OUTLET
- CEILING MOUNTED EXHAUST FAN VENTED TO EXTERIOR
- CABLE TV OUTLET
- ELECTRICAL DISTRIBUTION PANEL
- SMOKE DETECTOR
- THERMOSTAT

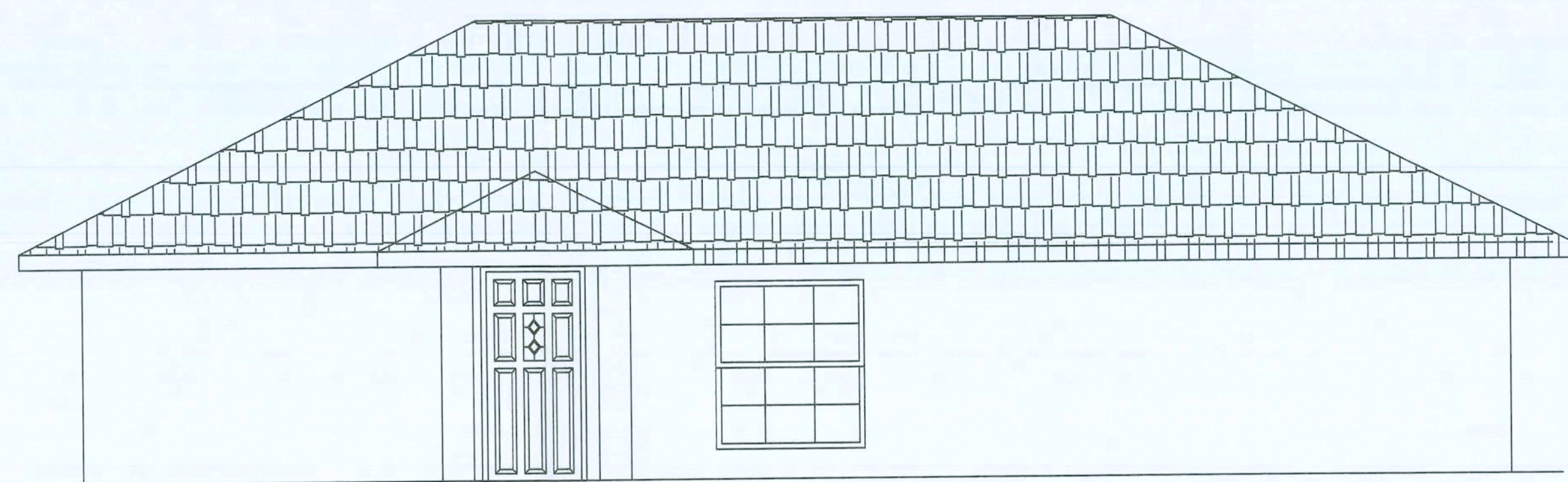
Square Footage

Living... 1,140
Garage... 30
Entry... 30
Porch... 1,170

HOUSE CRAFT HOMES, L.L.C.

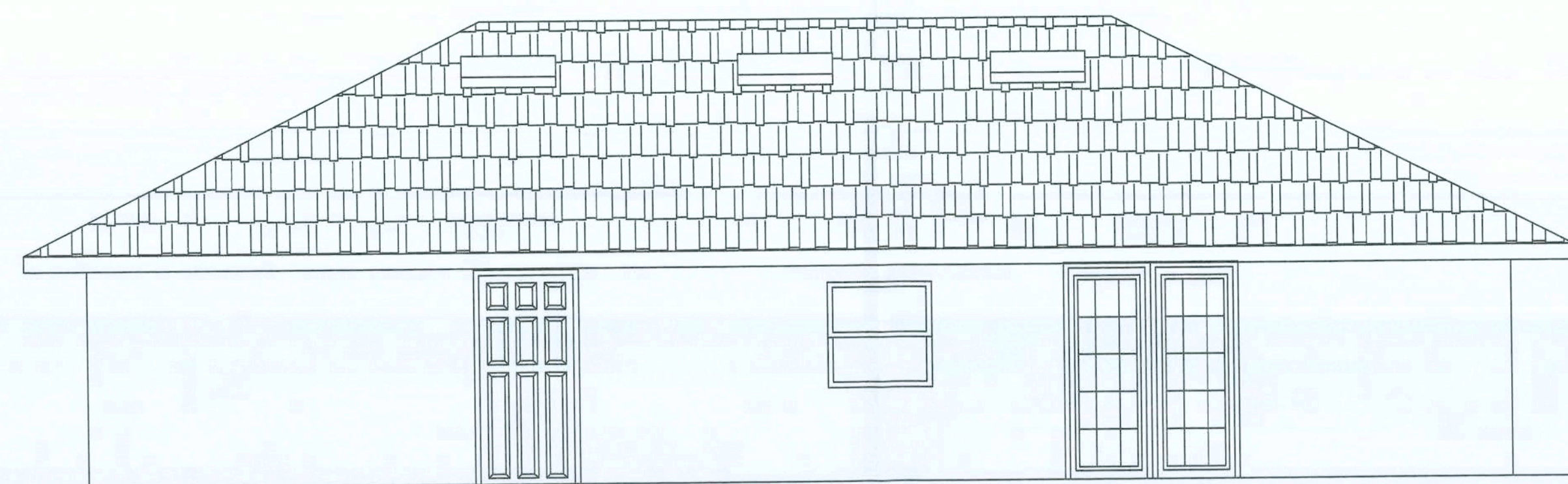
12523 NW U.S. Hwy. 441 - Alachua, FL 32615
Phone: (386) 462-5323/FAX: (386) 462-1509

Job name: BUENO
Model: CUSTOM Type: PLAN
Location: Columbia County Drawn By: J.D.H.
Checked By: J.D.H. Revision Date: 5/5/08
Scale: 3/8"=1' Date: 7/9/09 Sheet: 2 of 3



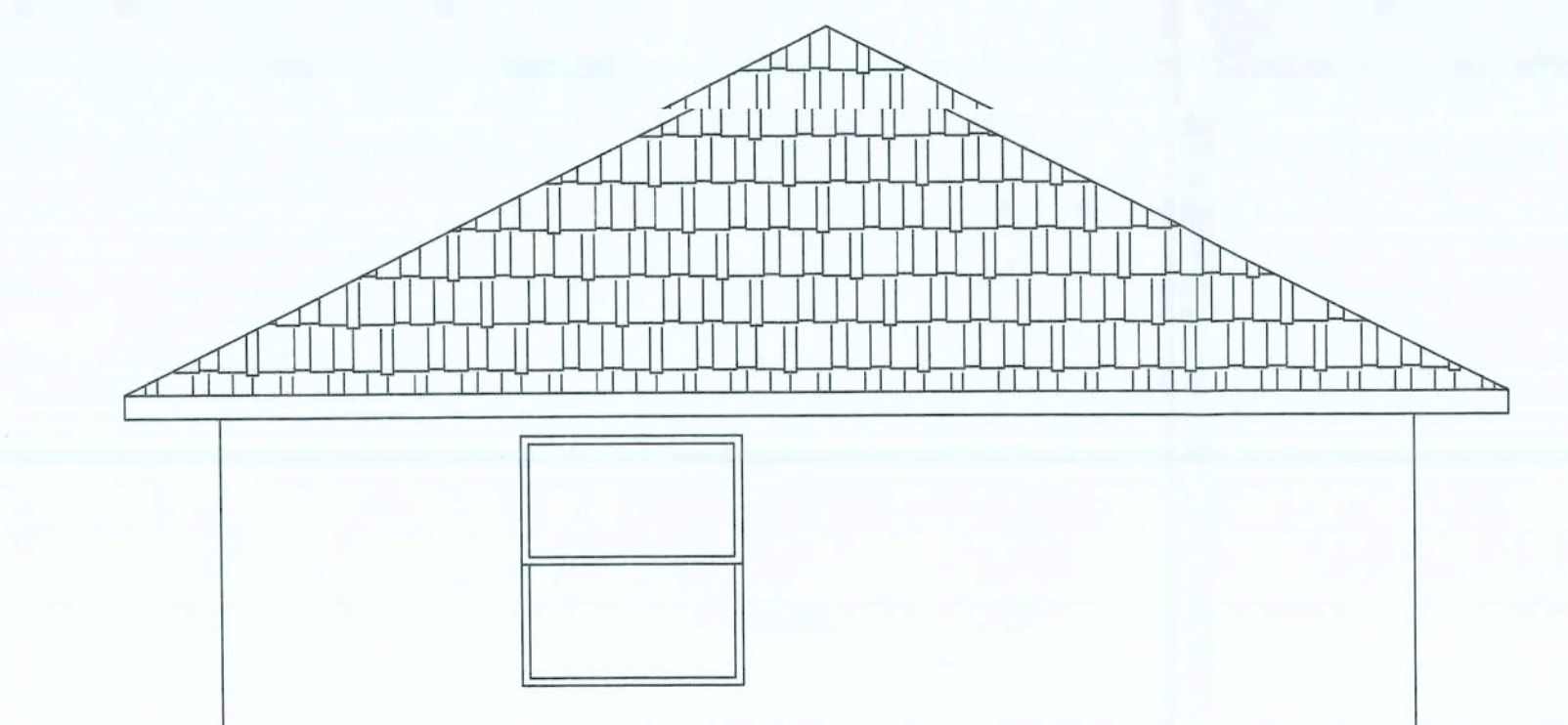
FRONT ELEVATION

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



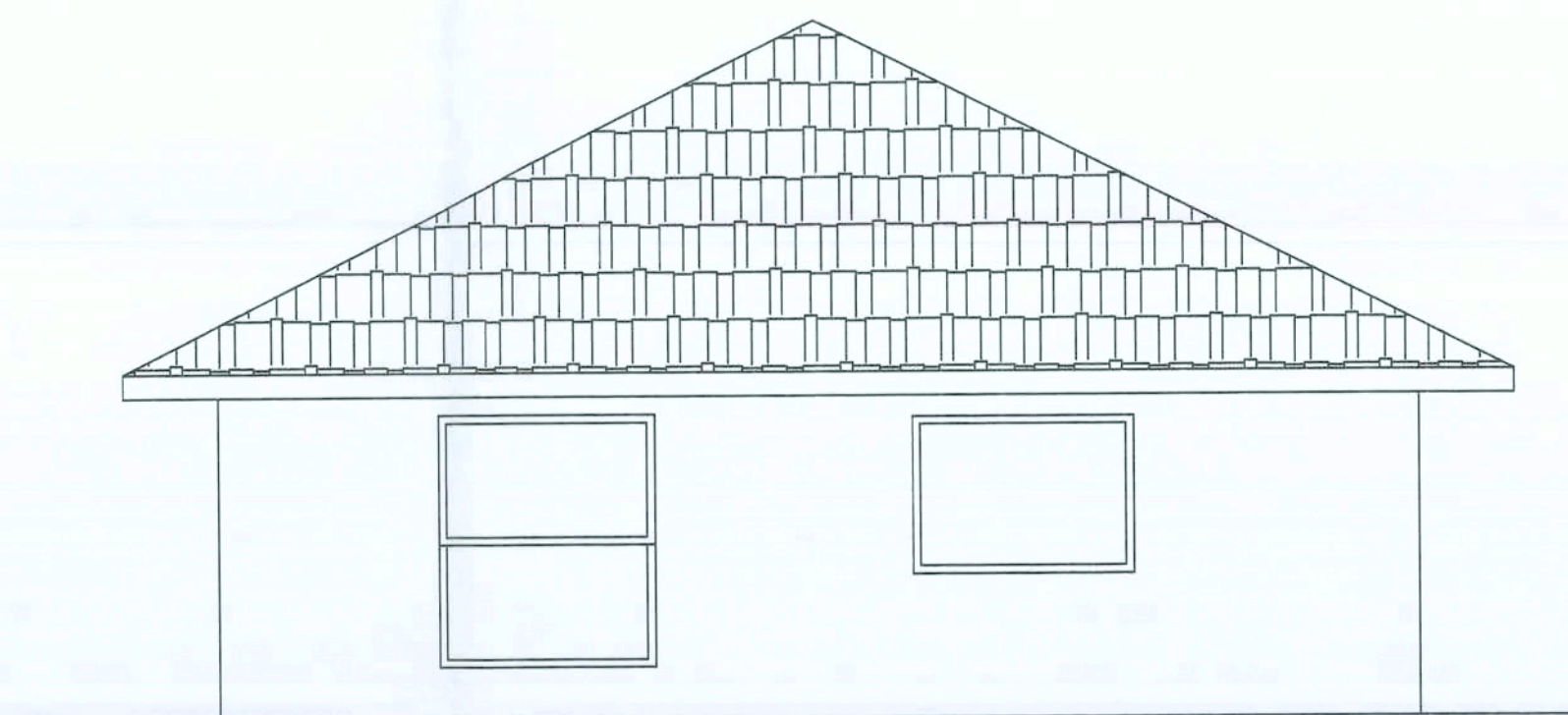
BACK ELEVATION

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



LEFT ELEVATION

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




RIGHT ELEVATION

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

ROOF VENT SCHEDULE

1,170 SQ. FT./300 = 3.9 SQ. FT. VENT REQUIRED
 157 L. FT. x2/35 = 8.97 SQ. FT. VENT PROVIDED
 3 STANDARD ROOF VENTS x 0.72 = 2.16 SQ. FT. PROVIDED
 3.9 REQUIRED = 1'1.13 PROVIDED

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Job name: **BUENO**

Model: CUSTOM	Type: ELEVATIONS
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