

MASONRY WALL CONSTRUCTION

1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MIN. NET COMPRESSIVE STRENGTH OF 1900 PSI (FM = 1680 PSI)
2. MORTAR SHALL BE TYPE N, S OR M CONFORMING TO ASTM C270
3. COARSE GROUT SHALL CONFORM TO STM C476 WITH A MAX. AGGREGATE SIZE OF 3/8", AND MIN. COMPRESSIVE STRENGTH OF 2000 PSI SLUMP 8" TO 1"
4. VERTICAL REINFORCEMENT SPACING IS NOTED ON THIS SHEET AND TO BE FULLY GROUTED CELLS.
5. VERTICAL REINFORCEMENT SHALL BE ELD IN POSITION AT THE TOP AND BOTTOM AND AT MAX. SPACING OF 192 BAR DIAMETERS. REINFORCEMENT SHALL BE PLACED IN CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED.

STRUCTURAL NOTES

FOUNDATION

SOIL TO BE COMPACTED TO AT LEAST 9% OF MAX. DRY DENSITY AS DETERMINED BY ASTM-1557 CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 P.S.I. LUMP OF 4"
2. ALL REINFORCING STEEL SHALL BE NW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM-61 GRADE 40.
3. WELDED WIRE MESH SHALL CONFORM TO ASTM A-185. WWM SHALL BE LAPPED AT LEAST 8" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 8". FIBER MESH MAY BE USED IN SLAB.
4. HOOKS SHALL BE PROVIDED AT DISCONTINUED ENDS OF ALL TOP BARS OF BEAMS.
5. HORIZONTAL FOOTING BARS SHALL HAVE A 1'-0" HOOK LENGTH OF CORNER BARS WITH A MIN. 25" LAP PROVIDED.
6. 25" MIN. LAP SPLICES ON ALL REBAR ALL REBAR TO BE GRADE 40.
7. 3" MIN. CONCRETE COVERAGE WHEN EXPOSED TO EARTH OR 1-1/2" TO FORM.

NOTES

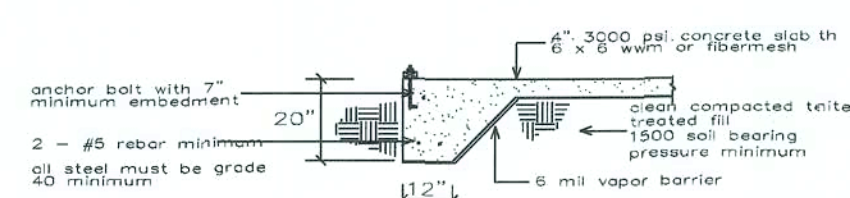
1. CONTRACTOR TO VERIFY ALL MEASUREMENTS AND DIMENSIONS BEFORE CONSTRUCTION OF THESE DRAWINGS BEGIN.
2. THIS STRUCTURE TO BE BUILT IN ACORDANCE WITH F.B.C. 2017.
3. ANY DEFECTS OR ERRORS FOUND IN THESE PLANS AFTER THE START OF THE CONSTRUCTION BECOME THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. TRUSS MANUF. TO ENGINEER TRUSSES TO WITHSTAND 130 MPH WIND LOAD AS PER 2017 F.B.C.
5. GRADE REQUIREMENTS MAY VARY ACORDING TO SOIL CONDITIONS.
6. WINDOWS TO BE INSTALLED TO MANI SPECS. TO MEET WINDLOADS AS PER 2017 F.B.C.

FOUNDATION NOTES

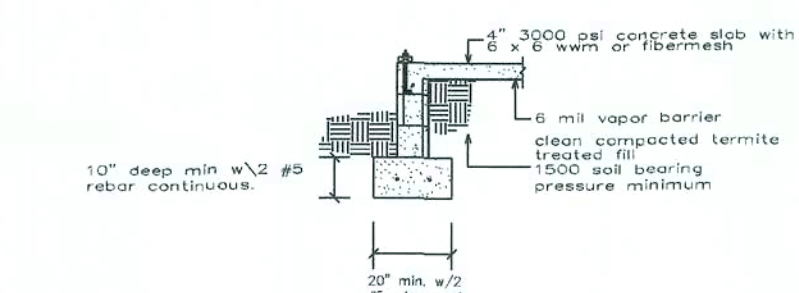
4" THICK SLAB WITH FIBER MESH OR 6 #6 W.W.M. OVER 6 MIL VAPOR BARRIER ON CLEAN TERMITE TREATED SIL. FIBER MESH MAY BE USED. ALL STEEL MUST BE GRADE 40 MIN. 150 PSF SOIL BEARING PRESSURE MIN. 8" C.M.U. STEMWALL WITH (1) #5 REBAR VERTICAL FILLED CELL W/ CONCRETE AT ALL CORNERS AND 6" O.C. MAX. SPACING. 10" DEEP X 20" WIDE WITH (2) 5 REBAR CONT. STEMWALL FOOTING. THICKEN EDGE OF MONOLITHIC SLAB TO 2" WIDE X 20" DEEP WITH (2) #5 REBAR CONTINUOUS.

Contractors to verify all dimensions, coes, and designs to comply with authorities having jurisdiction. All steel must be grade 40 minimum. Verify all footings with contractor and truss company's truss layout.

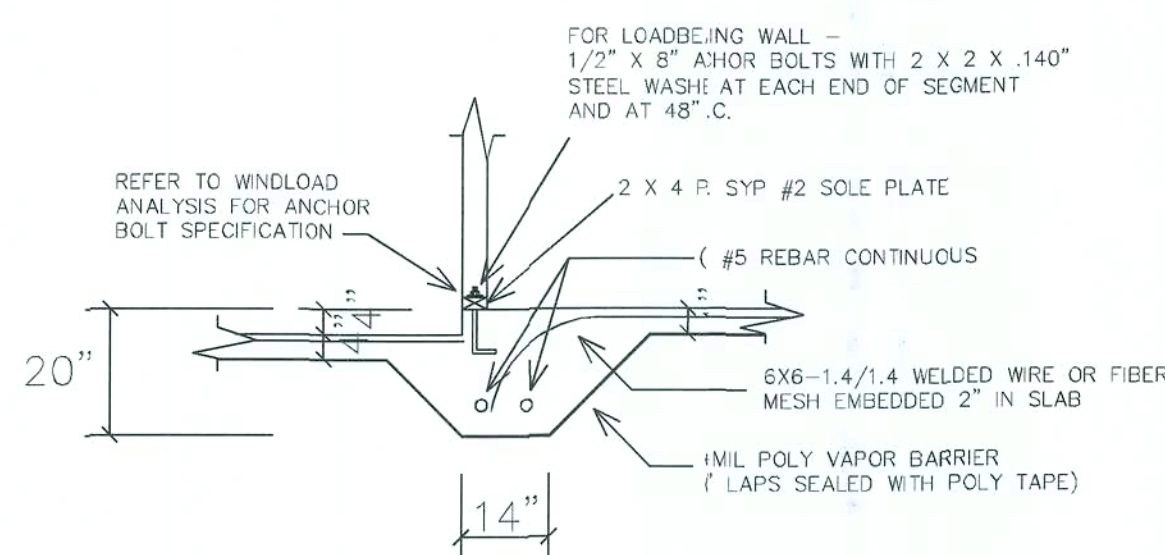
CODE STATEMENT:
CODE REQUIREMENTS IN EFFECT AT THE TIME OF DESIGN:
2017 FLORIDA RESIDENTIAL BUILDING CODE (6TH EDITION)



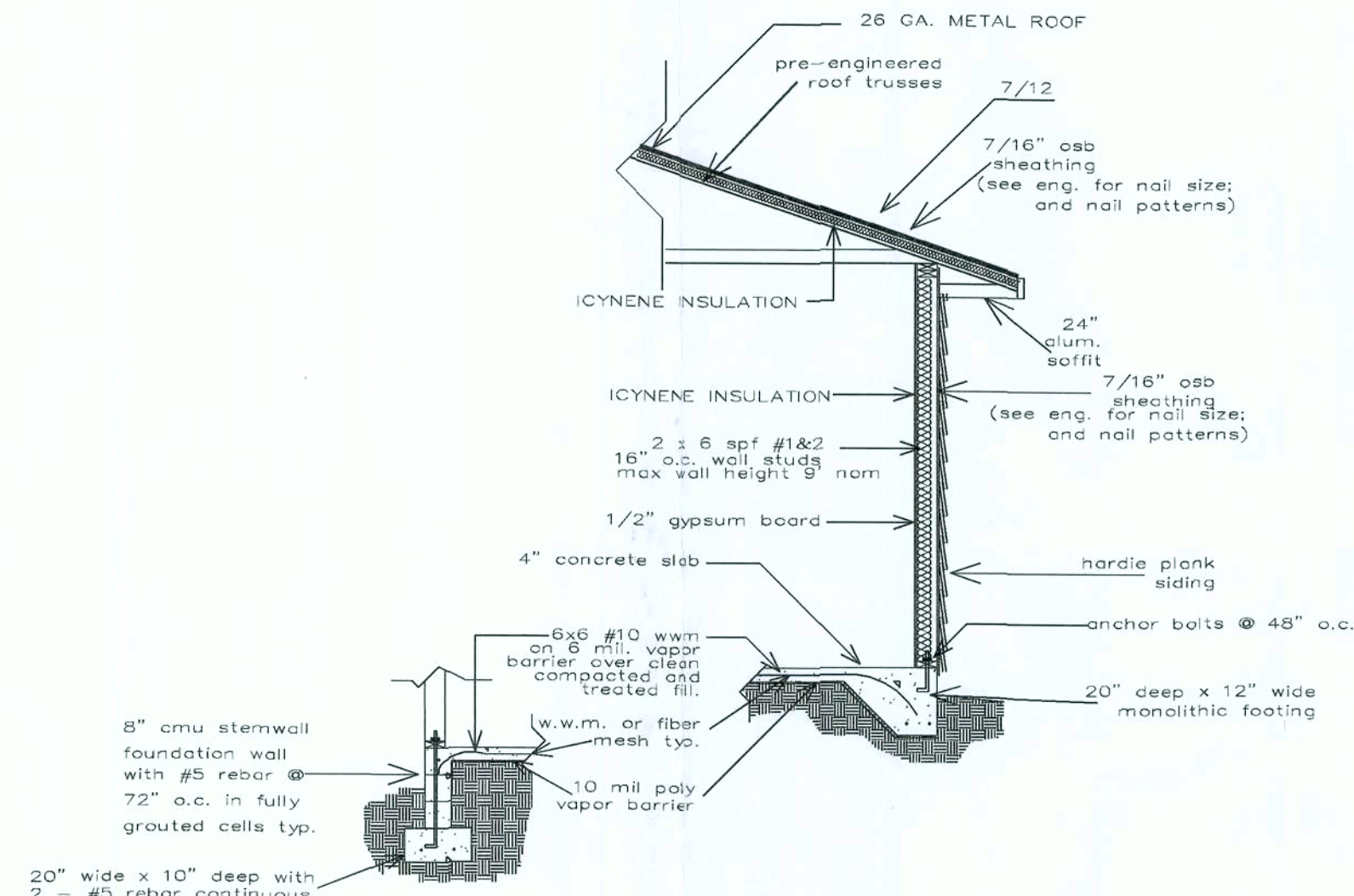
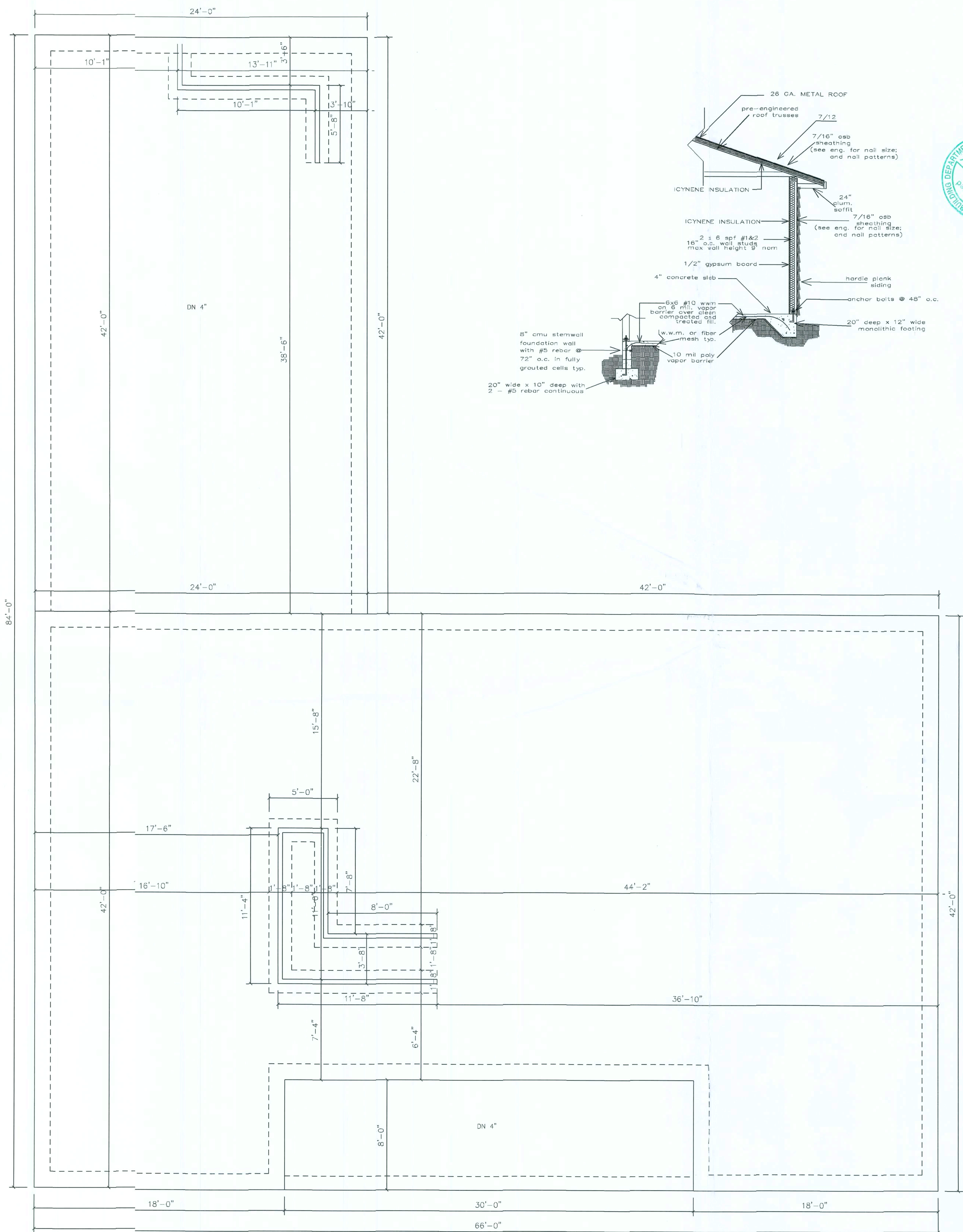
typical monolithic footing



typical cmu stemwall footing



TYPICAL STEPPED SLAB



THE MADERO RESIDENCE
WESTWIND ESTATES / LOT 6
LAKE CITY, FLORIDA

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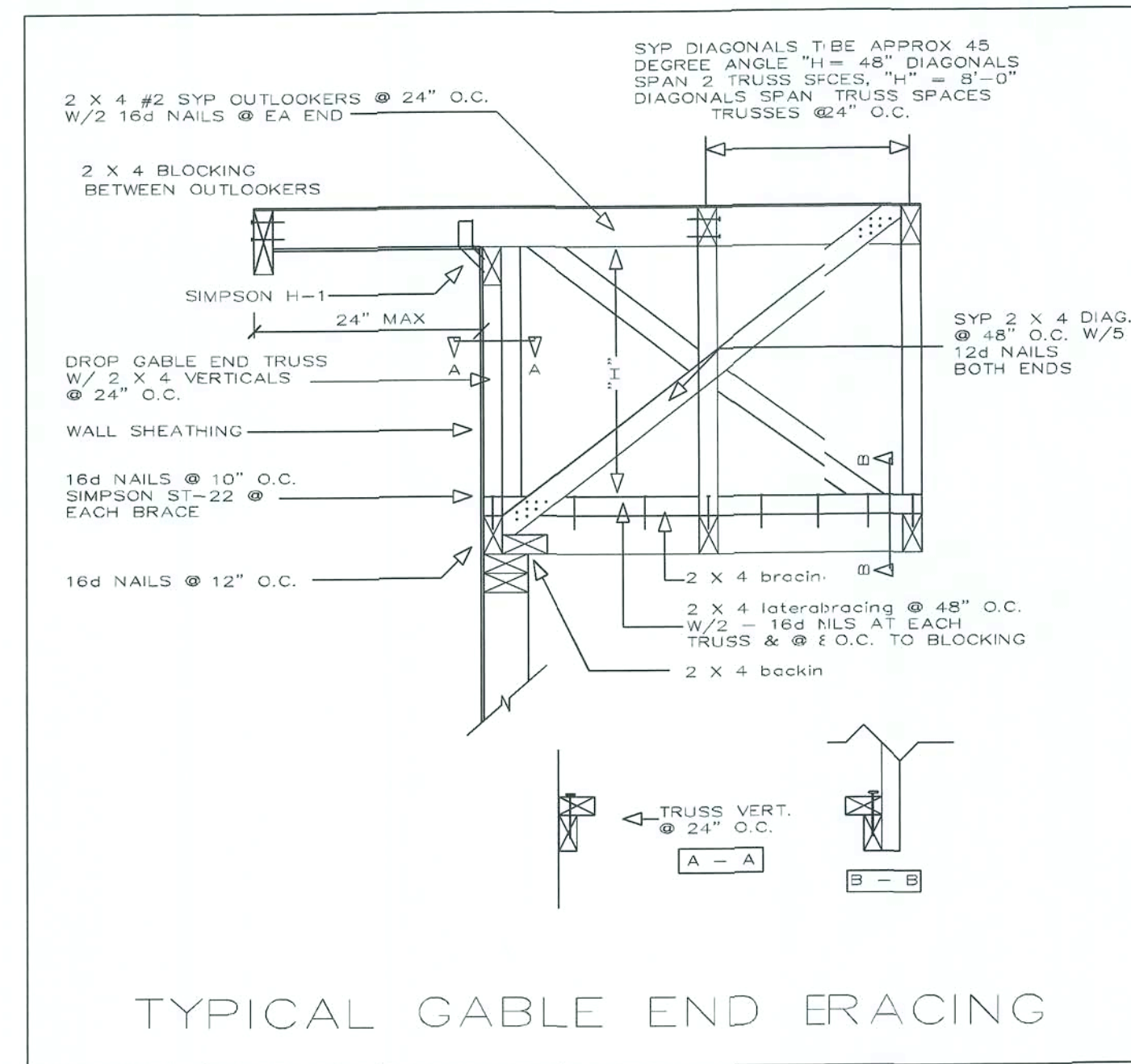
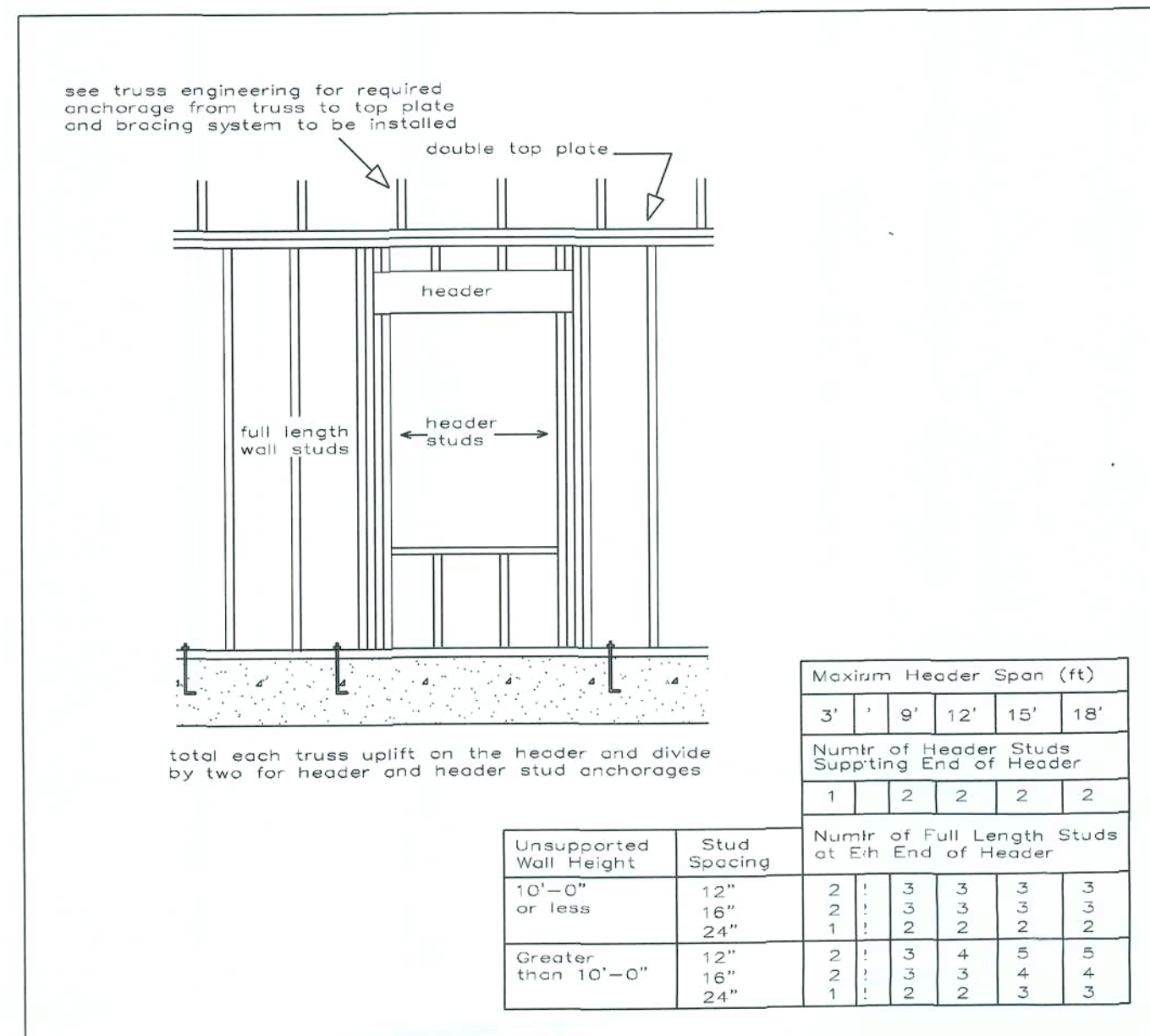
FOUNDATION

SCALE: 1/4"=1'-0"
1/18 JOB # 19004

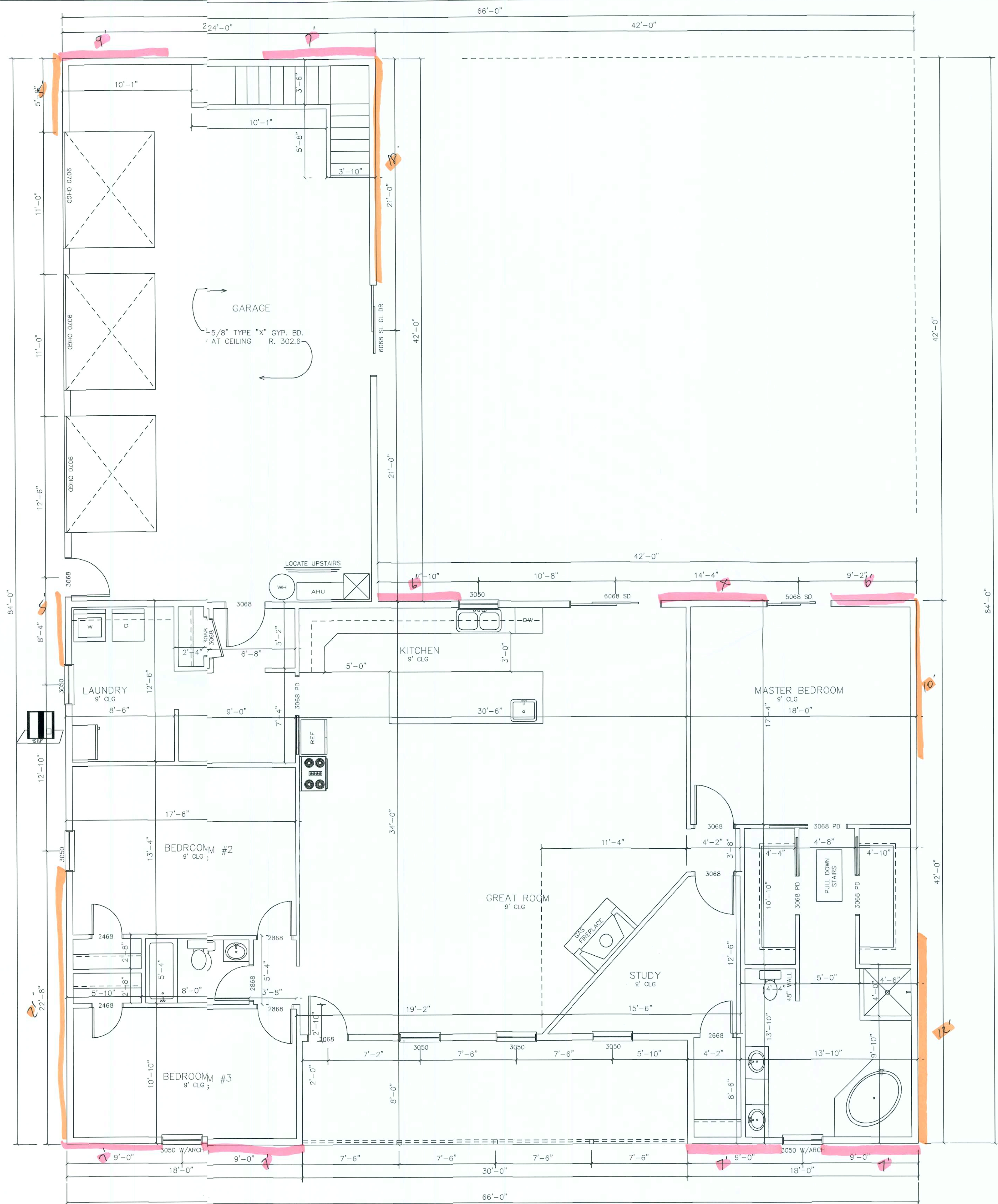
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WINDOW SIZE	TYPE	QTY
3050	SINGLE HUNG	5
3050 W/ ARCH	SINGLE HUNG	2
3030	SINGLE HUNG	1

DOOR SCHEDULE	TYPE	QTY
3068	SOLID CORE	2
3068 FIRE DR	SOLID CORE	1
6068 SGD	GLASS	2
6068 SGD	GLASS	1
3068	HOLLOW CORE	3
3068 PD	HOLLOW CORE	4
2868	HOLLOW CORE	3
2668	HOLLOW CORE	1
2468	HOLLOW CORE	2
9' X 7' OH	GARAGE DOOR	3



DESIGN WIND SPEED 135 mph	RISK CATEGORY II	WIND EXPOSURE B	ENCLOSURE CLASSIFICATION ENCLOSED	INTERNAL PRESSURE COEFFICIENT 0.18	TABLE APPLICABLE FOR ROOF SLOPES 1/12 TO 12/12	COMPONENTS AND CLADDING PRESSURES
ROOF COMPONENT AREA	INTERIOR ZONE	ENDZONE	CORNER ZONE			
10sf	27.8/-30.4	27.7/-35.6	27.8/-35.6			
20sf	27.0/-28.8	27.0/-34.0	27.0/-34.0			
50sf	26.0/-26.8	25.7/-30.4	26.0/-32.0			
100sf	25.2/-25.2		25.2/-30.4			
WALL COMPONENT AREA	INTERIOR ZONE	ENDZONE	CORNER ZONE			
10sf	30.4/-33.0	30.4/-40.7	30.4/-40.7			
20sf	29.0/-31.6	28.6/-38.0	28.6/-38.0			
50sf	27.2/-29.8	27.2/-34.3	27.2/-34.3			
100sf	25.8/-28.4	25.8/-31.6	25.8/-31.6			
500sf	22.7/-25.2	22.7/-25.2	22.7/-25.2			



TPS-71
LONG-56

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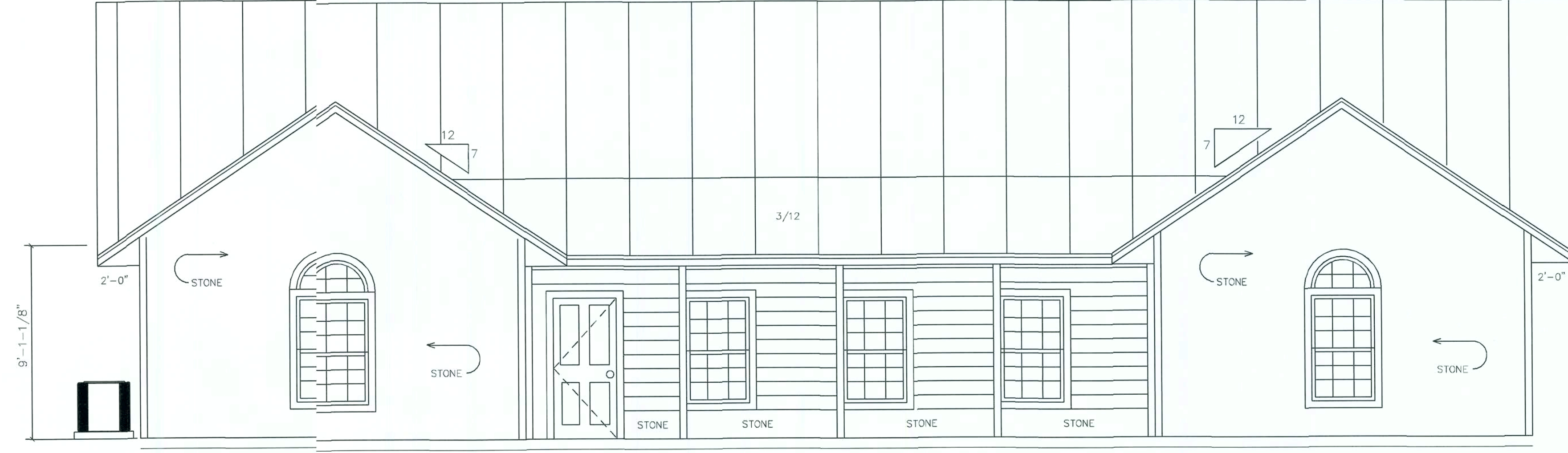
THE MADERO RESIDENCE
WESTWIND ESTATES / LOT 6
LAKE CITY, FLORIDA

FLOOR PLAN
SCALE: 1/4"=1'-0"
1/7/8

2532	LIVING	1008	TOTAL
1008	GARAGE	240	
240	PORCH	3780	



LEFT ELEVATION



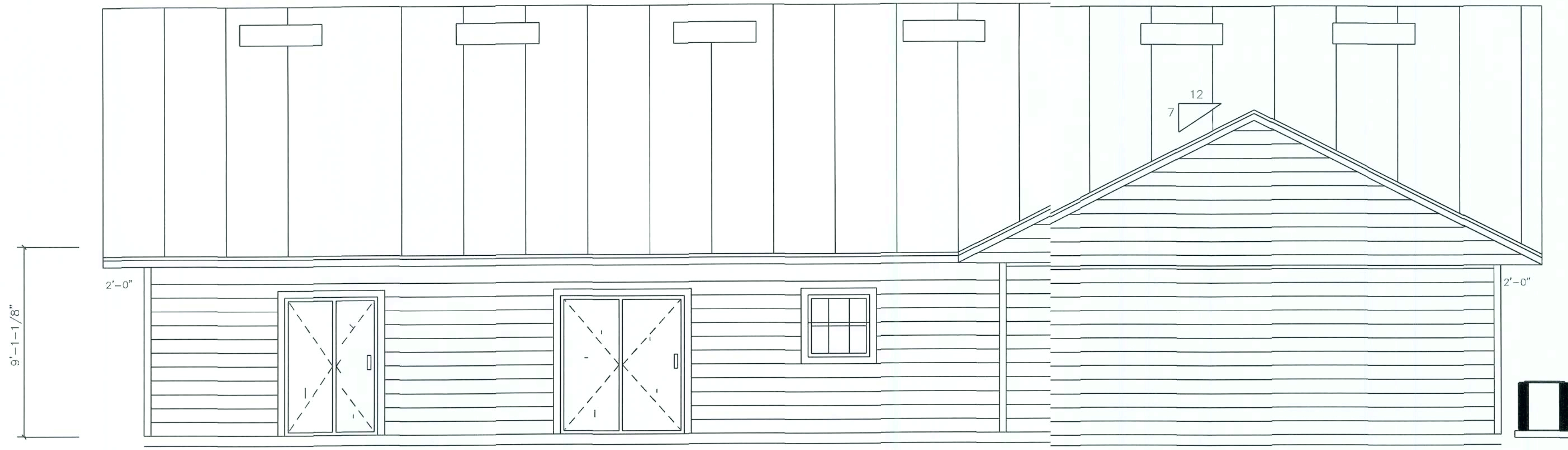
FRONT ELEVATION

ELEVATIONS

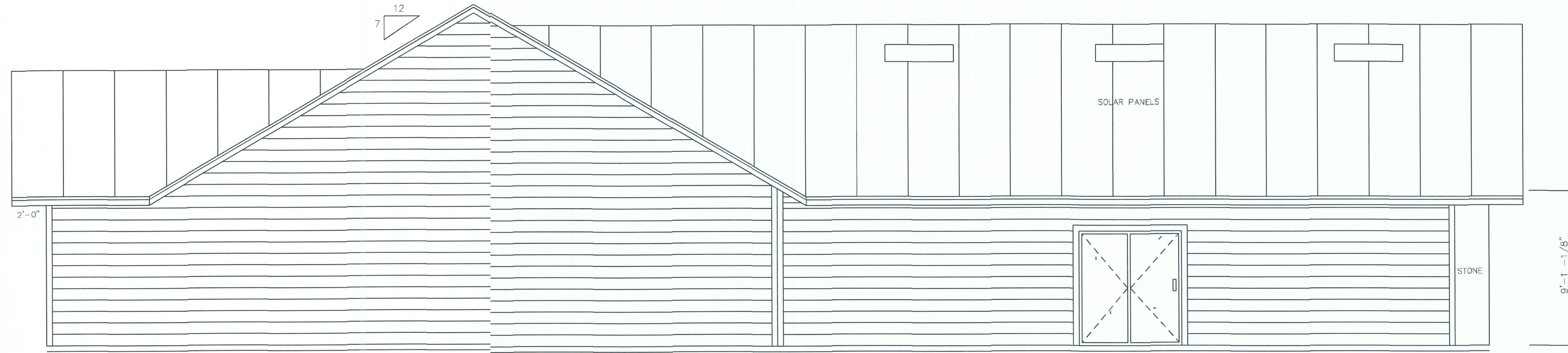
SCALE: 1/4"=1'-0"
1/8" JOB # 19004

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REAR ELEVATION



RIGHT ELEVATION

ELEVATIONS

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1/18 JOB # 19004

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Note:
THIS ELECTRICAL PLAN IS A SCHEMATIC WITH SUGGESTED SWITCH, RECEPTACLE AND LIGHT FIXTURE LOCATIONS, DUE TO VARYING LOCAL AND STATE CODES, REGULATIONS, AND STATUTES. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE CODES, REGULATIONS AND STATUTES.

ELECTRICAL NOTES:
INSTALLATION SHALL BE PER 2017 NAT'L. ELECTRIC CODE.
WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.
CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.

ALL SMOKE DETECTORS SHALL BE 120V WITH BATTERY BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE BEDROOMS, KITCHENS, LAUNDRY, UTILITY AND HALLWAYS.

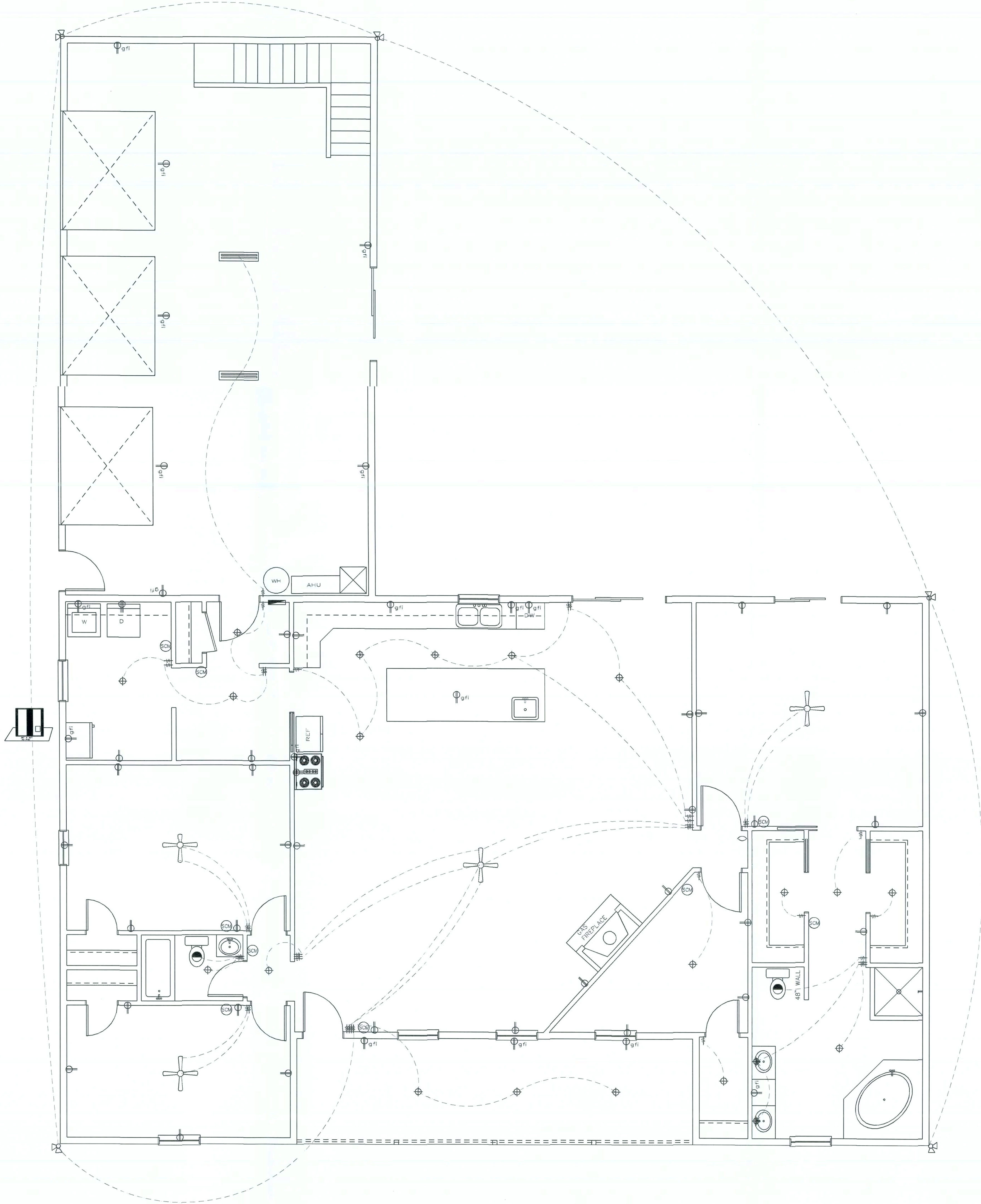
ANY BUILDINGS HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, A FIREPLACE OR AN ATTACHED GARAGE SHALL HAVE CARBON MONOXIDE DETECTORS WITHIN 10' OF ALL BEDROOMS, 12" ABOVE FINISHED FLOOR.

TELEPHONE, TELEVISION, AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, AND IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC-LATEST EDITION 2017 NEC. ALL BEDROOM RECEPTACLES SHALL BE AFCI. 2017 (ARC FAULT CIRCUIT INTERRUPT)

NOTE: ALL 15 AND 20 AMP BRANCH CIRCUITS THAT SUPPLY 120 VOLT OUTLETS IN HABITABLE ROOMS SHALL BE ARC FALT PROTECTED (AFCI)

NOTE:
CONTRACTORS TO VERIFY ALL DIMENSIONS, CODES AND STRUCTURAL DESIGNS TO COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.

LEGEND			
SWITCH	RECEPTACLE	CEILING FAN	
LIGHT FIXTURE	220V OUTLET	CAN LIGHT	
FUSE BOX	FLUORESCENT LIGHT	AC COMP	AIR CONDITIONING COMPRESSOR
EXHAUST FAN	SMOKE/CARBON MONOXIDE DETECTOR		
FLOOD LIGHT	GROUND FAULT INTERRUPT OUTLET		



ELECTRICAL PLAN

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

1/18 JOB # 19004

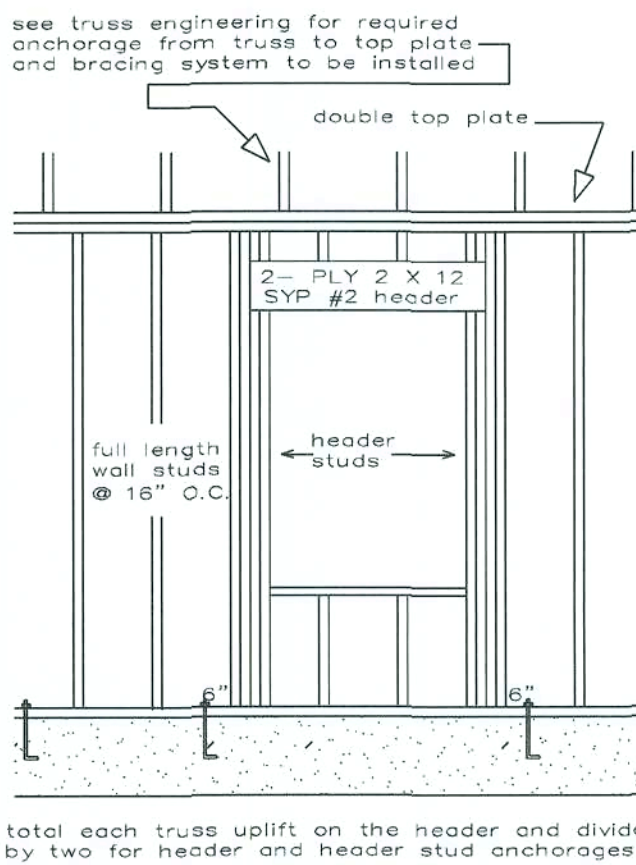
THE MADERO RESIDENCE
WESTWIND ESTATES / LOT 6
LAKE CITY, FLORIDA

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CODE STATEMENT:
CODE REQUIREMENTS IN EFFECT AT THE TIME OF DESIGN:
2017 FLORIDA RESIDENTIAL BUILDING CODE (6TH EDITION)

ROOF PLAN NOTES:
R-1 All roof pitch 6/12
R-2 Overhangs 24" - 16" entry - 12" bedroom 3 gable
R-3 Provide attic ventilation in accordance with code requirements
R-4 See exterior elevations and floor plans to verify plate and heel heights.
R-5 Move all vents and other roof penetrations to rear.

ROOF VENTING CALCULATIONS
SQ FT TOTAL 3780 SF
/600 SF
SF OF VENT AREA REQ. 6.3 SF
/7.3 SF
NUMBER OF VENTS REQ. 9



TIE-DOWN TABLES				
HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 435	LSTA19	635	H-3	320
to 910	LSTA12	795	2-H3	640
to 1265	LSTA18	1110	LTT19	1305
to 1750	2-LSTA12	1810	LTT20	1750
to 2530	2-LSTA18	2530	HD2A-2.5	2165
to 2865	3-LSTA18	3255	HD2A-3.5	2865
to 3700	3-LSTA24	3890	HD3A-3	3130

Total the uplift for each truss sitting on the header and divide by 2 to determine the uplift on the header. Use proper bolt anchors sufficient to support required uplift loads.

TRUSSES \ GIRDERS			
Uplift Lbs	Top Connector	Bottom Connector	Rating Lbs
to 535	H25A	NA	
to 1015	H10A	NA	
to 1215	T822	LTT19	1305
to 1750	2-T822	LTT20	1750
to 2570	2-T822	HD2A	2775
to 3665	3-T822	HD3A	4010
to 5420	2-MST37	HTT22	5250
to 9660	2-MST60	HD10A	9540

Two 12g common bolts are required per truss for each bearing point into top plate.
It is the contractors responsibility to provide a continuous load path from truss to foundation.

	TOP CONNECTOR	RATING LBS	BOTTOM CONNECTOR	RATING LBS
BEAM SEATS	LSTA18	1110	LTT19	1305
POSTS	2-LSTA18	2220	ABU44	2300

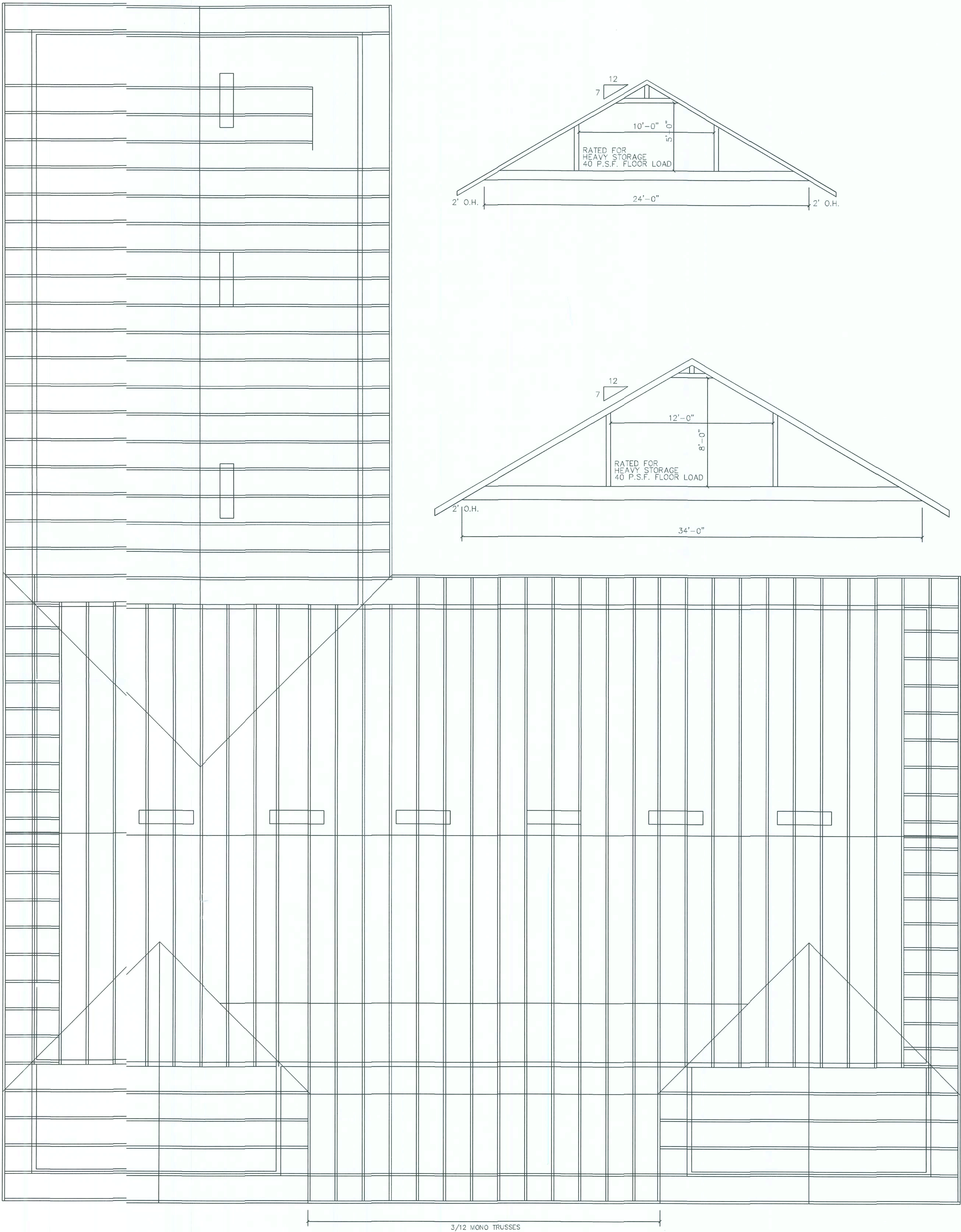
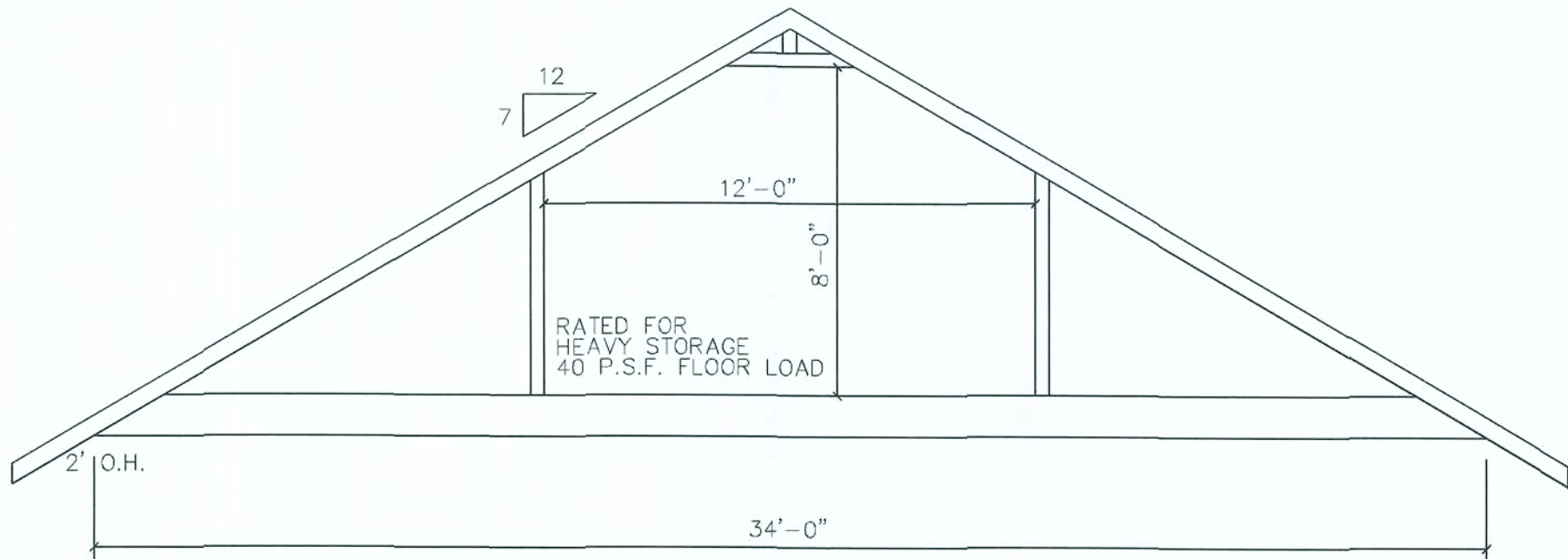
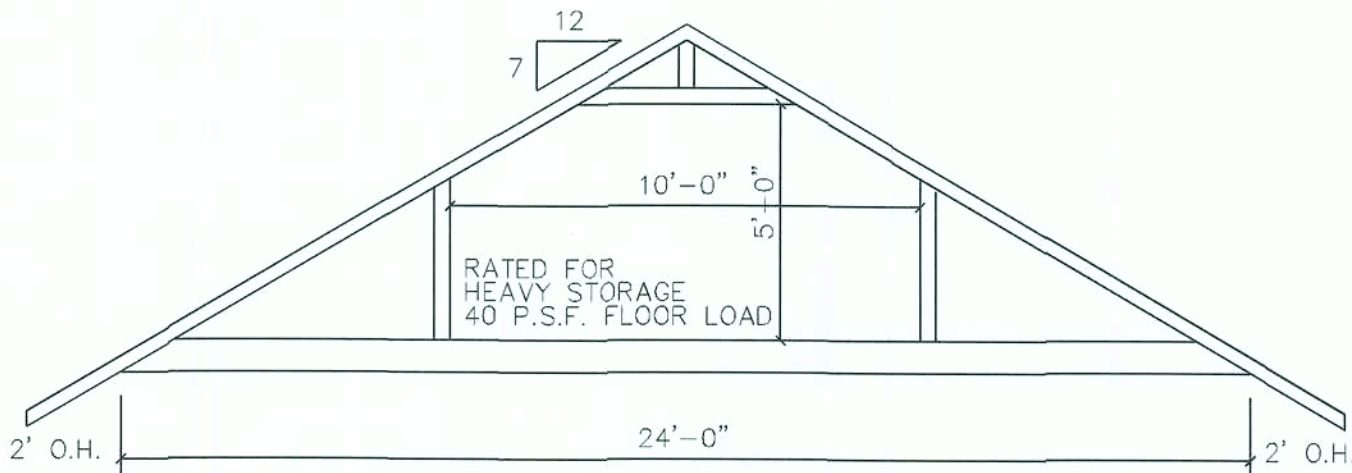
1. Simpson or equivalent hardware may be used.
For nailing into gusset members, multiply table values by .85.
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values or any manufacturer's values.

PREFABRICATED WOOD TRUSSES

1. ALL PREFABRICATED TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS AS PER TRUSS ENG REQ.
2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE NDS AS RECOMMENDED BY THE NFPA.
3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH A MAX. ALLOWABLE STRESS INCREASE FOR ALL LOAD DURATIONS OF TPI RECOMMENDATIONS).
4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE SPECIFIED BY THE TRUSS MANF.
5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY.
6. DESIGN SPECIFICATION FOR LIGHTWEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER TPI.
7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANF. IN ACCORDANCE WITH SPECIFIED LOADS AND THE GOVERNING CODES.
8. THE TRUSS MANF. SHALL DETERMINE ALL SPANS, BEARING POINTS AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS CONNECTORS.

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALL MAY NOT NEED TO HAVE CONNECTORS APPLIED. CONSULT THE TRUSS MANF. FOR THE LOCATION OF THESE WALLS.
2. THE CAPACITIES OF THE TRUSS CONNECTORS SPECIFIED BY TRUSS MANF. SHALL BE VERIFIED BY THE CONTRACTOR TO EXCEED THE LOADS IN THE SIGNED AND SEALED TRUSS ENGINEERING.

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ROOF LAYOUT

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