TIE–DOWN TABLES

HEADER STRAPPING				
Uplift Lbs	Top Connector	Rating Lbs	Bottom Connector	Rating Lbs
to 455	LSTA19	635	H3	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	3880	HD5A–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	H2.5A	NA	
to 1015	H10A	NA	
to 1215	TS22	LTT19	1305
to 1750	2–TS22	LTT20	1750
to 2570	2–TS22	HD2A	2775
to 3665	3–TS22	HD5A	4010
to 5420	2–MST37	HTT22	5250
to 9660	2–MST60	HD10A	9540

Two 12d common toenails 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

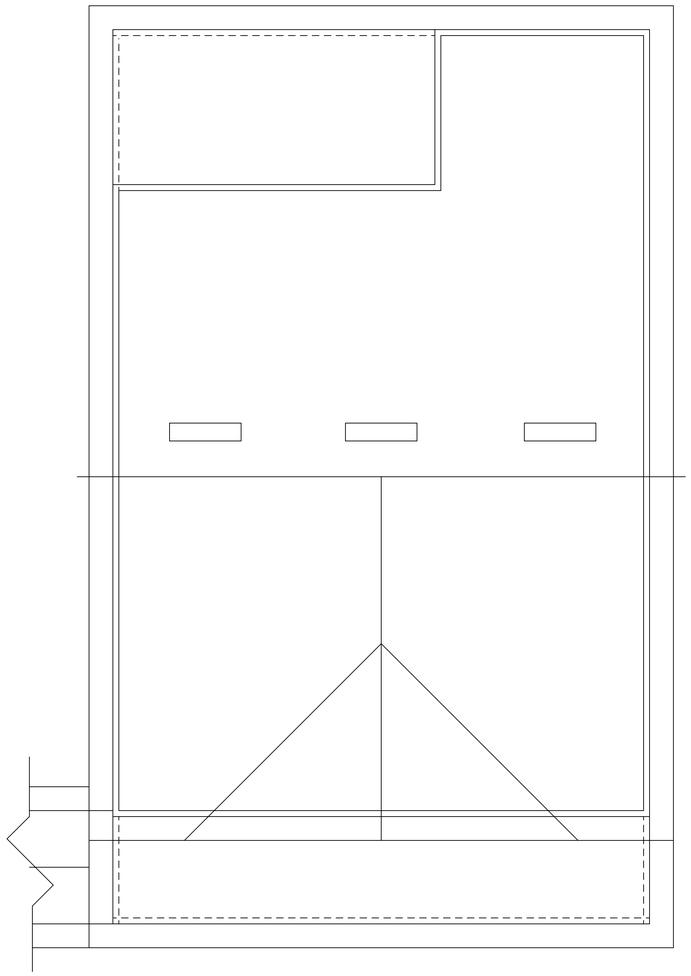
1. Simpson or equivlent hardware may be used. For nailing into spruce members, multiply table values by .86
2. See truss engineering for anchor uplift values.
3. This schedule is not meant to be a replacement to the specified values of any manufactures values.

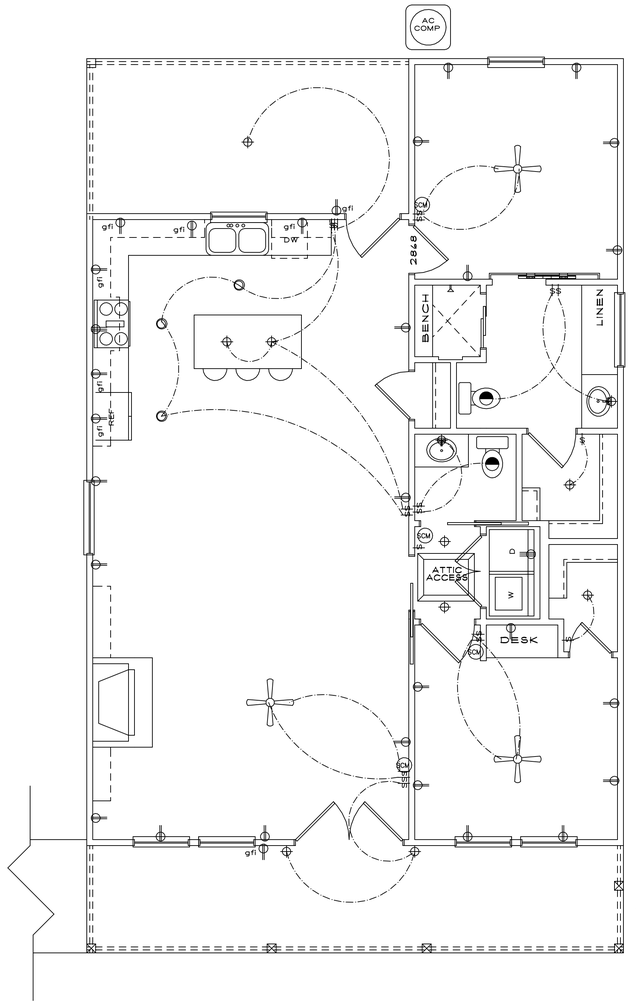
ROOF VENT CALCS

SF	1500
	/600
VENT AREA	2.5
	/.73
VENT REQ	3

PREFABRICATED WOOD TRUSSES

1. ALL PREFABRICATED TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS 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 WALLS 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.





ELECTRICAL LEGEND

- FLOOD LIGHT
- A.F. 110V ELECT. OUTLET 18" ABOVE FINISH FLOOR TYP.
- GFI GROUND FAULT INTERRUPT
- 220V ELECT. OUTLET
- LIGHT
- EXHAUST FAN
- SCM SMOKE/CARBON MONOXIDE DETECTOR
- 200 AMP ELECT PANEL
- 110V FLO LIGHT
- 110V CEILING FAN W/LIGHT
- CAN LIGHT
- AC COMP AIR CONDITIONING COMPRESSOR

SMOKE DETECTORS TO BE WIRED W/ BATTERY BACK UP AS REQUIRED BY CODE.

ALL OUTLETS TO BE ARC FAULT PROTECTED CIRCUIT.

ALL RECEPTACLES NEAR WATER TO BE GFI.

ALL EXTERIOR OUTLETS TO BE WATERPROOF GFI.

NOTES:

ALL WORK SHALL COMPLY WITH THE 2020 NEC AND ALL OTHER APPLICABLE LOCAL CODES AND ORDINANCES.

ALL SMOKE DETECTORS TO BE WIRED TOGETHER TO ACTIVATE AS ONE UNIT.

PROVIDE GFI OUTLETS AT BATHROOMS, KITCHEN, EXTERIOR AND ANY WET AREA OUTLETS.

OUTLETS SUPPLYING POWER TO THE STOVE, RANGE, A/C, WATER HEATER, DRYER AND DISH WASHER ARE TO BE WIRED ON SEPARATE DEDICATED CIRCUITS.

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 CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE CODES, REGULATIONS AND STATUTES.

ELECTRICAL NOTES:

INSTALLATION SHALL BE PER 2020 NAT'L. ELECTRIC CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.

SMOKE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARM SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND 2034. R314.1.1

ANY BUILDINGS HAVING A FOSSIL–FUEL–BURNING HEATER OR APPLIANCE, A FIREPLACE OR AN ATTACHED GARAGE SHALL HAVE CAROBON MONOXIDE DETECTORS WITHIN 10' OF EACH ROOM USED FOR SLEEPING PURPOSES. R315.1

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 2020 NEC. ALL BEDROOM RECEPTACLES SHALL BE AFCI. 2020 (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)

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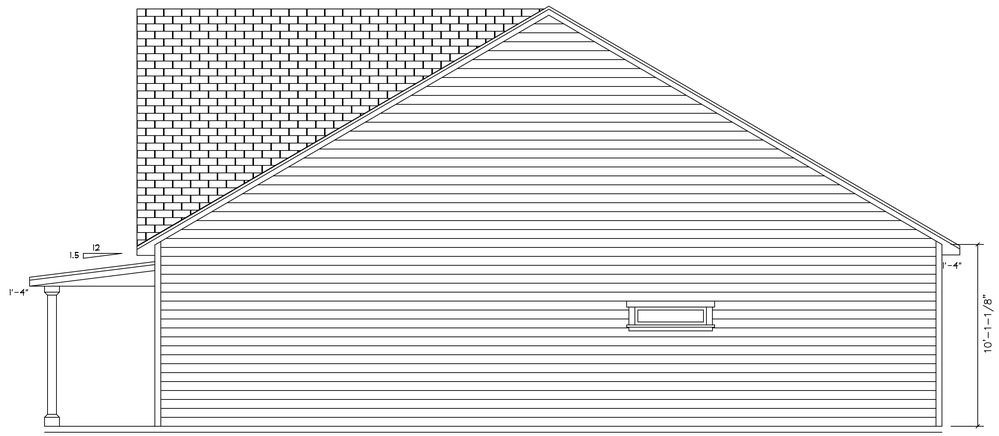
N.W. MARYNIK DRIVE
HIGH SPRINGS, FLORIDA

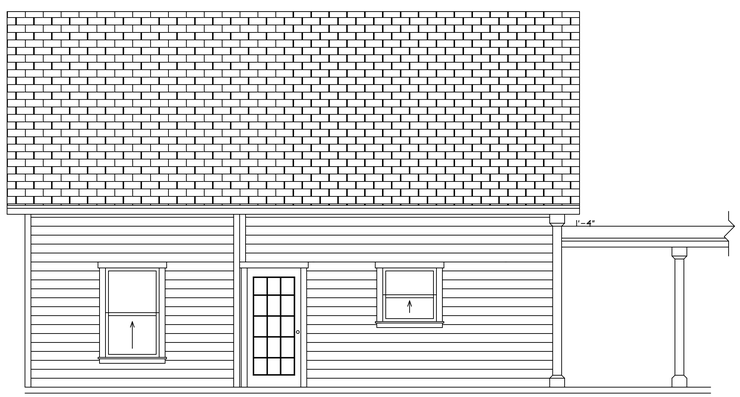
ROOF LAYOUT
SCALE: 1/4"=1'-0"
REVISIONS
05/18/24

1

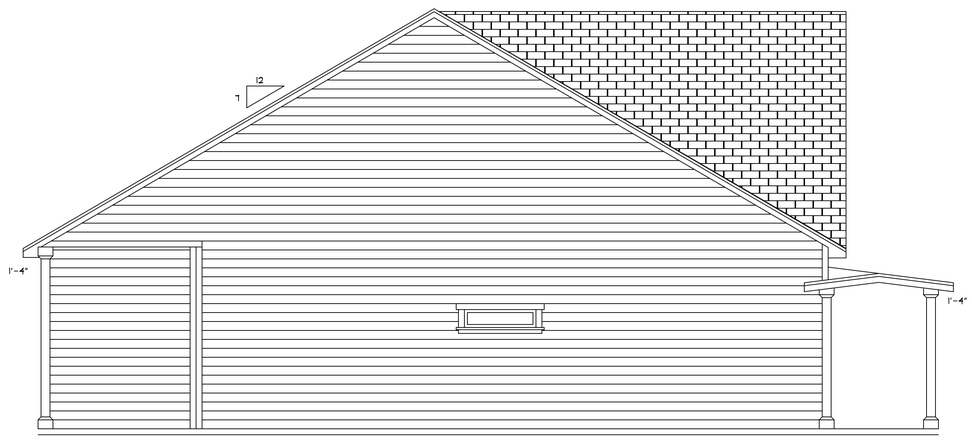


RIGHT ELEVATION

FRONT ELEVATION



REAR ELEVATION



LEFT ELEVATION

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ELEVATIONS

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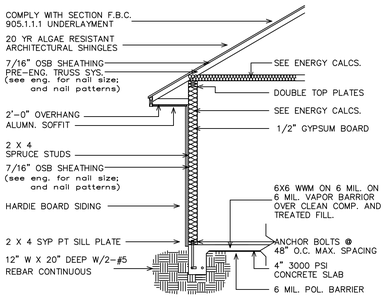
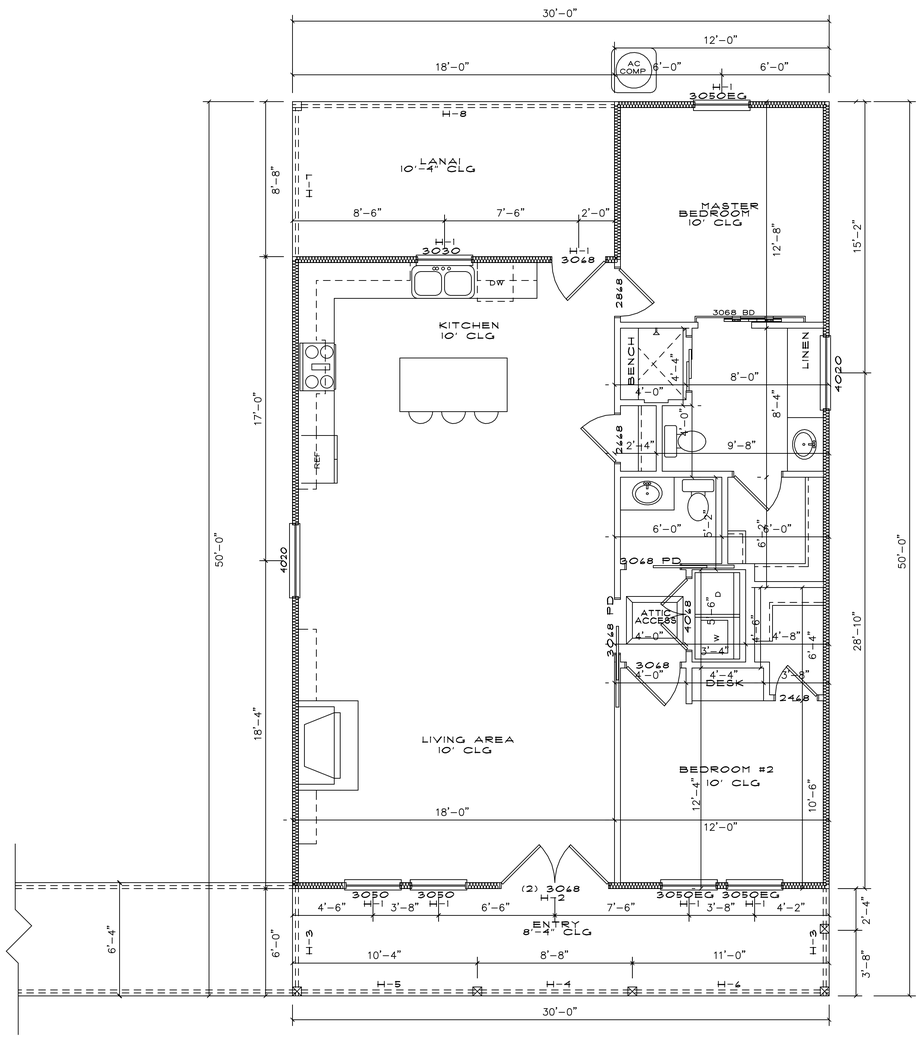
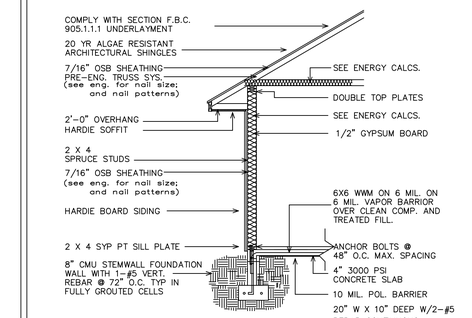
WALL SECTION



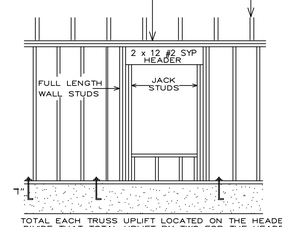


ALL DOORS AND WINDOWS TO BE INSTALLED WITH MANUFACTURERS ATTACHED WORKSHEETS AND MUST COMPLY WITH FBC 2023 CODES. SUBMIT PRODUCT APPROVALS WITH PERMIT DOCUMENTS.

WALL SECTION



SEE SIGNED AND SEALED TRUSS ENGINEERING FOR REQUIRED ANCHORAGES FROM TRUSS TO TOP PLATE AND BRACING SYSTEM TO BE INSTALLED



TOTAL EACH TRUSS UPLIFT LOCATED ON THE HEADER AND DIVIDE THAT TOTAL UPLIFT BY TWO FOR THE HEADER AND THE FULL LENGTH HEADER STUD ANCHORAGES.

ALL STANDARD HEADERS TO BE (2) PLY 2 X 12 #2 S.Y.P. WITH 1/2" O.S.B. OR PLYWOOD SPACER. AT TIMES LVL'S WILL BE SPECIFIED FOR HEADERS. (SEE HEADER SCHEDULE ON PLAN OR WINDLOAD.)

INSTALL (2) ROWS OF 3" X 10d NAILS @ 4" O.C. NAILED IN A STAGGERED PATTERN

HEADER SPAN (feet)	MAXIMUM STUD SPACING (inches) (per Table R602.3(5))	
	16	24
13'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

CODE STATEMENT:
CODE REQUIREMENTS IN EFFECT AT THE TIME OF DESIGN:
2023 FLORIDA RESIDENTIAL BUILDING CODE(8TH EDITION)

HEADER SCHEDULE

HEADER I.D.	HEADER SIZE	QTY
H-1	(2) PLY 2 X 12 #2 SYP HEADER	9
H-2	(2) PLY 2 X 12 #2 SYP HEADER	1
H-3	(2) PLY 2 X 12 #2 SYP HEADER	1
H-4	(2) PLY 2 X 12 #2 SYP HEADER	1
H-5	(2) PLY 2 X 12 #2 SYP HEADER	1
H-6	(2) PLY 2 X 12 #2 SYP HEADER	1
H-7	(2) PLY 2 X 12 #2 SYP HEADER	1
H-8	(2) PLY 1.75 X 11.25 LVL HEADER	1
	SYP = 750 F.B. / 1,400,000 M.E.	

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FLOOR PLAN
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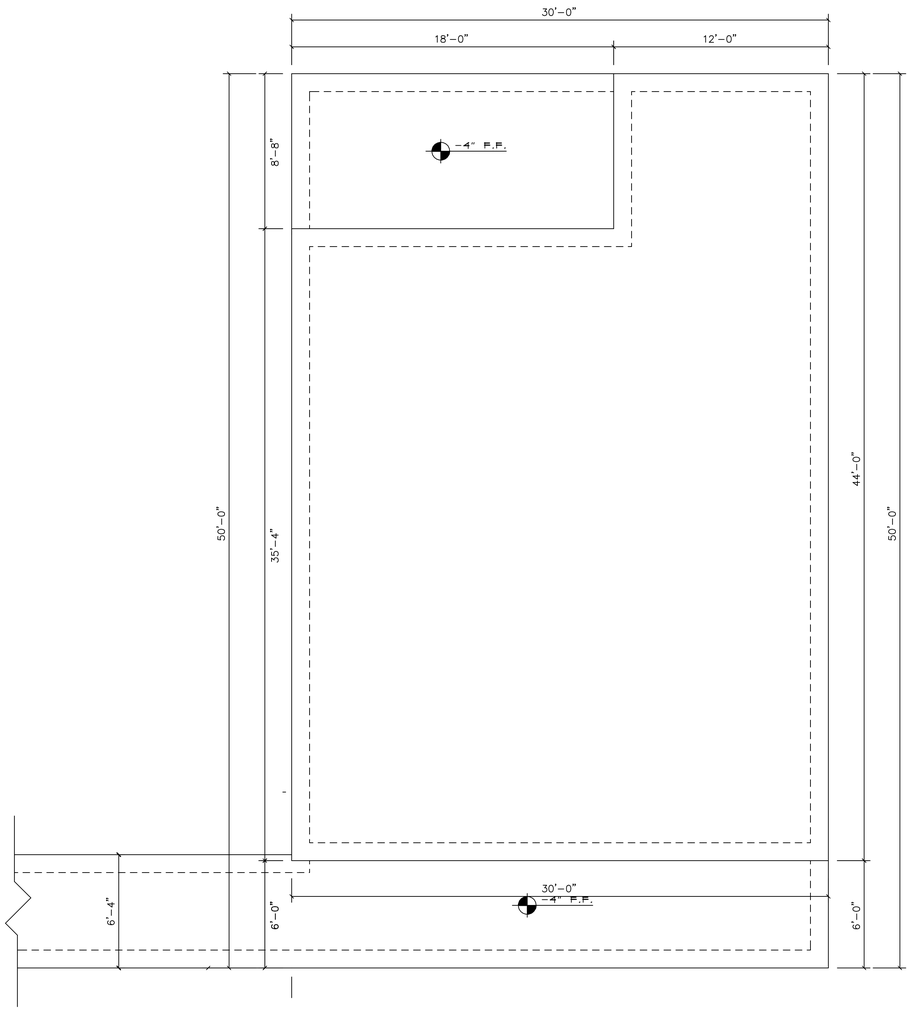
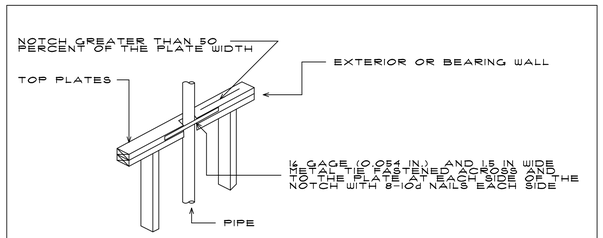
LIVING AREA:	1164 S.F.
LANAI AREA:	156 S.F.
ENTRY AREA:	180 S.F.
TOTAL AREA:	1500 S.F.





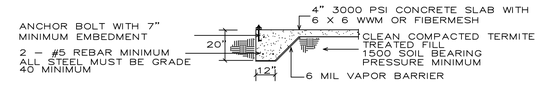
TOP PLATE FRAMING TO ACCOMMODATE PIPING
FIGURE R602.6.1

FOUNDATION NOTES

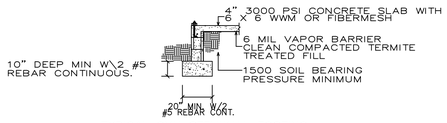
4" THICK SLAB WITH FIBER MESH OR 6 x 6 W.W.M. OVER 6 MIL VAPOR BARRIER ON CLEAN TERMITE TREATED SOIL. FIBER MESH MAY BE USED.
ALL STEEL MUST BE GRADE 40 MIN. 1500 PSF SOIL BEARING PRESSURE MIN.
8" C.M.U. STEMWALL WITH (1) #5 REBAR VERTICAL FILLED CELL W/ CONCRETE AT ALL CORNERS AND 6' O.C. MAX. SPACING.
10" DEEP X 20" WIDE WITH (2) 5 REBAR CONT. STEMWALL FOOTING.
THICKEN EDGE OF MONOLITHIC SLAB TO 12" WIDE X 20" DEEP WITH (2) #5 REBAR CONTINUOUS.
CONTRACTORS TO VERIFY ALL DIMENSIONS, CODES AND DESIGNS TO COMPLY WITH AUTHORITIES HAVING JURISDICTION.
VERIFY ALL FOOTINGS WITH CONTRACTOR AND TRUSS COMPANY'S TRUSS LAYOUT.

CODE STATEMENT:
CODE REQUIREMENTS IN EFFECT AT THE TIME OF DESIGN:
2023 FLORIDA RESIDENTIAL BUILDING CODE

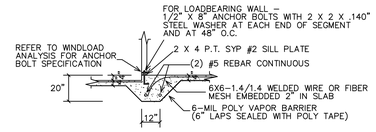
IF SOIL CONDITIONS IN THIS PROJECT DO NOT MEET OR EXCEED THE MIN. 1500 PSF SOIL BEARING CAPACITY THE CONTRACTOR IS REQUIRED TO CONTACT THE OWNER PRIOR TO POURING OF THE PADS FOR VERIFICATION OF THE PAD DESIGNS. THE SOIL IS TO BE COMPACTED TO BE AT LEAST 95% OF MAX. OF MAX. DRY DENSITY AS AS DETERMINED BY ASTM-1557 (modified proctor)



TYPICAL MONOLITHIC FOOTING



TYPICAL CMU STEMWALL FOOTING



TYPICAL STEPPED SLAB

DESIGN CRITERIA		
F.B.C.	RESIDENTIAL	2023
WIND LOAD DESIGN	ASCE 7-16	2023
FL. PLUMBING	F.B.C.	2023
FLOOR LIVE LOAD	40 P.S.F.	2023
ROOF LIVE LOAD	20 P.S.F	2023
FL. ELECTRICAL	NAT'L ELECT. CODE	2020
MECHANICAL	F.B.C.	2023
F.B.C. 2023 (8TH EDITION)		

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

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