



ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

March 28, 2014

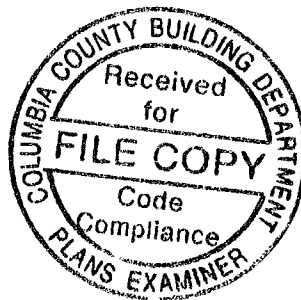
Jacobsen Homes
600 Packard Street
Safety Harbor, FL 34695

RE: Manufacturer: Jacobsen Homes
S/N Size & Occupancy: Model M818; 30'-8" x 60'-0"; R-3
HWC Plan#: 2540-0055F

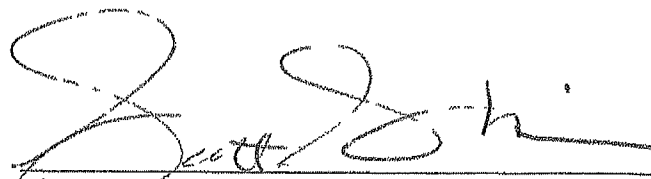
To Whom It May Concern:

This is to certify that the plans for the referenced manufactured building have been reviewed and approved as being in compliance with the 2010 Florida Codes and Standards with 2012 Supplement, as noted on the approved drawings, subject to the following limitations:

1. Approval covers factory-built structure only. (Note: Any alterations to factory built structure on site voids state approval)
2. Items installed at the site are subject to review, approval, and inspection by the local authority having jurisdiction.
3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
4. Signed and sealed plans shall be on file with HWC Engineering.
5. NOT Approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties)



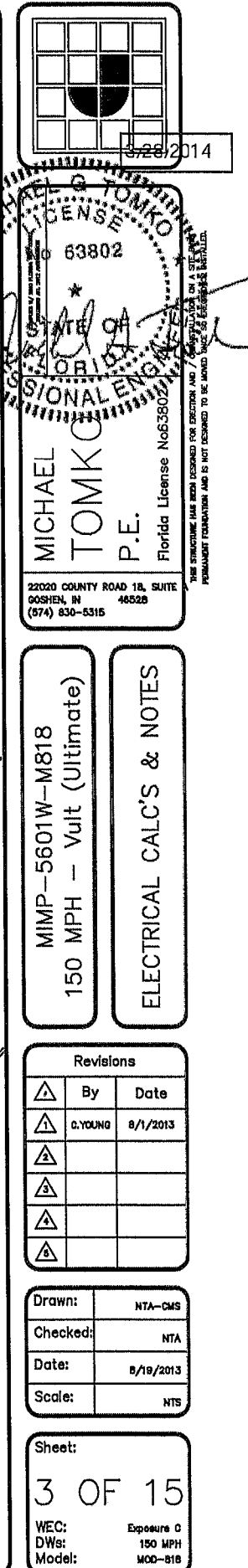
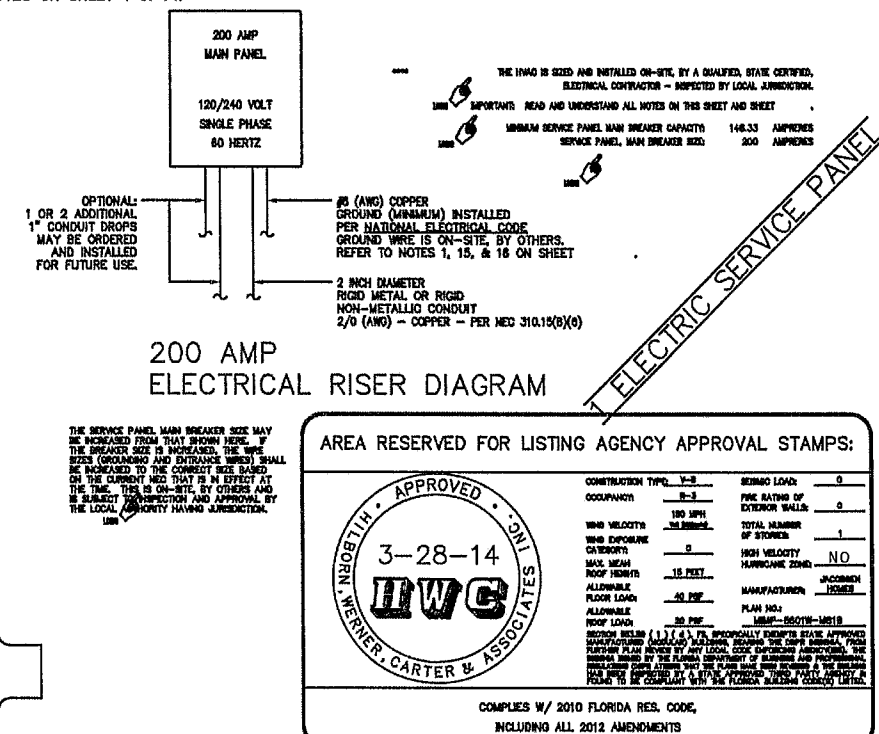
Sincerely,
HILBORN, WERNER, CARTER & ASSOCIATES, INC.


Plan Reviewer

HILBORN, WERNER, CARTER AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVENUE CLEARWATER, FLORIDA 33768
(727) 584-8151
FAX: (727) 586-3343 / (727) 585-2392 / (727) 587-0447
Modular Office Inspection

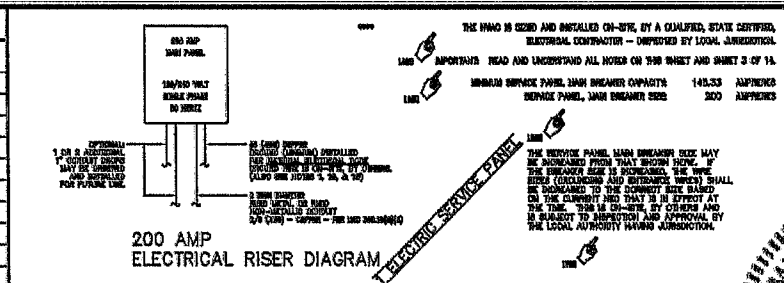
BUILDING SIZE:	1840 Sq. Ft.	4 MINIMUM
1. MINIMUM NUMBER OF GENERAL LIGHTING / GENERAL USE CIRCUITS REQUIRED:		
(Sq. Ft. x 3 VA / 120 VOLTS / 15 AMPERES = MIN. NUM. OF GENERAL LIGHTING / USE CIRCUITS REQ'D)		
2. GENERAL LIGHTING AND GENERAL USE RECEPTACLES AT 3 VOLT-AMPERES PER BUILDING SQUARE FOOT:		
GENERAL LIGHTING / GENERAL USE:	1840 x 3 VA = 5220 VA	
	TOTAL VOLT-AMPERES = 5220 VA	
3. SMALL APPLIANCE AND LAUNDRY LOAD AT 1,500 VOLT-AMPERES PER 20 AMPERE CIRCUIT:		
SMALL APPLIANCE LOAD:	3 x 1,500.00 VA = 4500 VA	
LAUNDRY LOAD:	1 x 1,500.00 VA = 1500 VA	
	TOTAL VOLT-AMPERES = 6000 VA	
4. NAMEPLATE RATING OF ALL FIXED APPLIANCES (IN VOLT-AMPERES):		
CLOTHES DRYER:	= 5800 VA	
RANGE:	= 9600 VA	
COOK TOP:	= 0 VA	
WALL OVEN:	= 2400 VA	
MICROWAVE OVEN:	= 2400 VA	
DISHWASHER:	= 1380 VA	
GARBAGE DISPOSAL:	= 1080 VA	
WATER HEATER:	= 4750 VA	
OTHER:	= 0 VA	
OTHER:	= 0 VA	
OTHER:	= 0 VA	
OTHER:	= 0 VA	
	TOTAL VOLT-AMPERES = 27410 VA	
5. NAMEPLATE RATING OF MOTOR AND LOW-POWER-FACTOR LOADS (IN AMPERES):		
RANGE HOOD(S):	1 x 1.1 AMPERES = 1.1 AMPERES	
EXHAUST FAN(S):	0 x 0.7 AMPERES = 0 AMPERES	
CELING FAN(S):	5 x 1 AMPERES = 5 AMPERES	
FURNACE BLOWER (GAS / OIL):	0 x 8 AMPERES = 0 AMPERES	
	TOTAL AMPERES = 6.1 AMPERES	
	MULTIPLY x 120.00 VOLTS	
	TOTAL VOLT-AMPERES = 732 VA	
6. TOTAL HEATING AND AIR-CONDITIONING LOAD:		
(USE THE LARGEST OF THE FOLLOWING SIX SELECTIONS - (A) THRU (F) - IN VOLT-AMPERES):		
A. 100% OF THE NAMEPLATE RATING(S) OF THE AIR-CONDITIONING AND / OR COOLING (VOLT-AMPERES):	1 x 14400 x 100% = 14400 VA	LARGEST
B. 100% OF THE NAMEPLATE RATING(S) OF THE HEATING WHEN A HEAT PUMP IS USED WITHOUT ANY SUPPLEMENTAL ELECTRIC HEATING (VOLT-AMPERES):	1 x 12000 x 100% = 12000 VA	
C. 100% OF THE NAMEPLATE RATING(S) OF ELECTRICAL THERMAL STORAGE AND OTHER HEATING SYSTEMS WHERE THE USUAL LOAD IS EXPECTED TO BE CONTINUOUS AT THE FULL NAMEPLATE VALUE. SYSTEMS QUALIFYING UNDER THIS SECTION SHALL NOT BE CALCULATED UNDER ANY OTHER SECTION IN 220.82(C) (VOLT-AMPERES)	0 x 0 x 100% = 0 VA	
D. 100% OF THE NAMEPLATE RATING(S) OF THE HEAT PUMP COMPRESSOR AND 65% OF THE SUPPLEMENTAL ELECTRIC HEATING SYSTEMS. IF THE HEAT PUMP COMPRESSOR IS PREVENTED FROM OPERATING AT THE SAME TIME AS THE SUPPLEMENTAL HEAT, IT DOES NOT NEED TO BE ADDED TO THE SUPPLEMENTARY HEAT FOR THE TOTAL CENTRAL SPACE HEATING LOAD (VOLT-AMPERES):	HEAT PUMP 0 x 0 x 100% = 0 VA SUPPLEMENTAL ELECTRIC HEATING SYSTEM 0 x 0 x 100% = 0 VA TOTAL LOAD (60): = 0 VA	
E. 65% OF THE NAMEPLATE RATING(S) OF ELECTRIC SPACE HEATING IF LESS THAN FOUR SEPARATELY CONTROLLED UNITS (VOLT-AMPERES):	0 x 0 x 65% = 0 VA	
F. 40% OF THE NAMEPLATE RATING(S) OF ELECTRIC SPACE HEATING IF FOUR OR MORE SEPARATELY CONTROLLED UNITS (VOLT-AMPERES):	0 x 0 x 40% = 0 VA	
USE THIS VOLT-AMPERE RATING FOR THE TOTAL OF THE HEATING AND AIR-CONDITIONING LOAD:	= 14400 VA	
7. TOTAL CALCULATED LOAD (LOADS AS CALCULATED IN 2 THRU 6 ABOVE):		
TOTAL GENERAL LIGHTING / USE CIRCUITS (2):	= 5220 VA	
TOTAL SMALL APPLIANCE AND LAUNDRY LOAD (3):	= 6000 VA	
TOTAL NAMEPLATE RATING OF ALL FIXED APPLIANCES (4):	= 27410 VA	
TOTAL NAMEPLATE RATING OF MOTOR & L-P-F LOADS (5):	= 732 VA	
TOTAL VOLT-AMPERES (COMBINED TOTALS 2-5 ABOVE):	= 38362 VA	
8. TOTAL COMBINED LOAD (FROM 7 ABOVE):	= 38362 VA	
FIRST 10KVA AT 100%:	= 10000 VA	
SUBTRACT THE FIRST 10KVA FROM TOTAL COMBINED LOAD:	= 28362 VA	
9. FIRST 10KVA AT 100%:	= 10000 VA	
— REMAINDER AT 40%:	= 11745 VA	
(FROM 8 ABOVE) 28362 VA		
SUBTOTAL OF BOTH LOAD COMBINATIONS:	= 21745 VA	
10. TOTAL COMBINED LOAD (FROM 9 ABOVE):	= 21745 VA	
TOTAL HEATING AND AC LOADS (8) - LARGEST OF (A) THRU (F):	= 14400 VA	
SUBTOTAL:	= 36145 VA	
SUBTOTAL DIVIDED BY — VOLTS:	/ 240.00 VOLTS	
MINIMUM CALCULATED AMPERES REQUIRED:	= 150.8 AMPERES	
	1 ELECTRIC SERVICE PANEL	

1. A LICENSED ELECTRICAL CONTRACTOR (LICENSED / CERTIFIED IN THE STATE OF FLORIDA) SHALL MAKE ALL REQUIRED ON-SITE ELECTRICAL CONNECTIONS. ALL OF THE ON-SITE CONNECTIONS ARE SUBJECT TO LOCAL INSPECTIONS AND APPROVAL.
2. ALL INSTALLED CIRCUITS AND / OR EQUIPMENT SHALL BE INSTALLED & GROUNDED IN ACCORDANCE WITH ALL THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC) ADOPTED BY THE STATE OF FLORIDA, AT THE TIME OF CONSTRUCTION OF THE BUILDING / STRUCTURE.
3. WHEN WATER HEATERS ARE INSTALLED, THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATER(S) BEING SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO BE USED AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT OF THE WATER HEATER(S) OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION. WHEN THE WATER HEATER(S) IS NOT INSTALLED AT THE FACTORY, THE MEANS OF DISCONNECT SHALL BE DESIGNED AND INSTALLED ON-SITE, BY OTHERS AND SHALL BE SUBJECT TO APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION AT THE INSTALLATION SITE OF THE BUILDING / STRUCTURE.
4. HVAC SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT THAT IS BEING SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL OF THE UNGROUNDED CONDUCTORS SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS, WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER. THIS REQUIRED DISCONNECT SHALL BE INSTALLED ON-SITE, BY OTHERS.
5. CERTIFIED ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL LOAD CALCULATIONS AFTER THE HEATING AND AIR-CONDITIONING SYSTEMS HAVE BEEN INSTALLED (BY OTHERS).
6. ALL ELECTRICAL COMPONENTS SHALL BE UL LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THAT LISTING.
7. ALL WIRING IS NM CABLE, UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
8. ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S), SHALL BE CONNECTED ON-SITE WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTORS (BY-OTHERS).
9. WHEN THE MAIN ELECTRICAL SERVICE PANEL IS NOT INSTALLED / INSPECTED AT THE FACTORY, THE ELECTRICAL SERVICE PANEL AND ALL FEEDERS SHALL BE DESIGNED / CALC'D BY OTHERS, SITE INSTALLED, AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION.
10. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, THE INTERRUPTING RATING OF THE MAIN SERVICE BREAKER SHALL BE VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NATIONAL ELECTRICAL CODE (NEC), BY A CERTIFIED ELECTRICAL CONTRACTOR (ON-SITE, BY OTHERS).
11. ALL 120-VOLT, SINGLE PHASE, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS IN ALL BEDROOMS, LIVING ROOMS, DENS, FAMILY ROOMS, CLOSETS, HALLS, DINING ROOMS, & SIMILAR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
12. ALL SMOKE ALARMS SHALL BE INTERCONNECTED SO THAT THE ACTIVATION OF ANY ONE ALARM WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHER SMOKE ALARMS. ALL SMOKE ALARMS SHALL BE EQUIPPED WITH A BATTERY BACK-UP FEATURE IN CASE OF PRIMARY POWER FAILURE AND / OR INTERRUPTION. ALL SMOKE ALARMS ARE EQUIPPED WITH A "HUSH" BUTTON.
13. CEILING FANS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE BLADES TO THE FINISHED FLOOR LEVEL WILL BE 80 INCHES MINIMUM.
14. SWITCHES, RECEPTACLES, AND / OR OTHER FIXTURES MAY BE RELOCATED FROM THE AREA SHOWN ON THESE APPROVED PLANS / DETAILS DUE TO CONSTRUCTION RESTRAINTS. ALL LOCATIONS SHALL COMPLY WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (NEC).
15. THE DISHWASHER AND GARBAGE DISPOSAL MAY BE INSTALLED ON ONE (1) 20 AMPERE (12-2) CIRCUIT.
16. ALL RECEPTACLE OUTLETS LOCATED WITHIN SIX FEET OF A SINK OR BASIN SHALL BE EQUIPPED WITH GFCI PROTECTION FOR PERSONNEL. ALL RECEPTACLE OUTLETS SERVING COUNTERTOPS, LOCATED IN THE KITCHEN SHALL BE EQUIPPED WITH GFCI PROTECTION FOR PERSONNEL.
17. ALL RECEPTACLE OUTLETS INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE EQUIPPED WITH A WEATHER PROOF (WP) ENCLOSURE (COVER), THE INTEGRITY OF WHICH IS NOT EFFECTED WHEN AN ATTACHMENT PLUG IS INSERTED OR REMOVED FROM THE RECEPTACLE OUTLET.
18. GFCI PROTECTION MAY BE PROVIDED BY EITHER A BREAKER OR A GFCI RECEPTACLE.
19. FOR A ONE-FAMILY DWELLING AND EACH UNIT OF A TWO-FAMILY DWELLING THAT IS AT GRADE LEVEL, AT LEAST ONE RECEPTACLE OUTLET ACCESSIBLE AT GRADE LEVEL AND NOT MORE THAN 6 1/2 FEET ABOVE GRADE SHALL BE INSTALLED ON THE FRONT AND THE BACK OF THE DWELLING.
20. FOR EACH DWELLING UNIT OF A MULTIFAMILY DWELLING WHERE THE DWELLING UNIT IS LOCATED AT GRADE LEVEL AND PROVIDED WITH INDIVIDUAL EXTERIOR ENTRANCE / EGRESS, AT LEAST ONE RECEPTACLE OUTLET ACCESSIBLE FROM GRADE LEVEL AND NOT MORE THAN 6 1/2 FEET ABOVE GRADE SHALL BE INSTALLED ON THE FRONT AND THE BACK OF THE DWELLING.
21. IN DWELLING UNITS, HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE.
22. IN DWELLING UNITS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 36 INCHES (3 FEET) OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR THE BASIN COUNTERTOP.
23. LIGHTING OUTLETS REQUIRED: AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND BATHROOM.



ELECTRICAL SYMBOLS LEGEND		
 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE
 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE
 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE
 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE	 TYPICAL 120V/240V SPLIT PHASE SERVICE

ELECTRICAL CIRCUIT SCHEDULE											
CIRCUIT #	DESCRIPTION (CIRCUIT DESCRIPTION)	WIRE SIZE (AWG)	WIRE TYPE (CU/AL)	CIRCUIT #	DESCRIPTION (CIRCUIT DESCRIPTION)	WIRE SIZE (AWG)	WIRE TYPE (CU/AL)	CIRCUIT #	DESCRIPTION (CIRCUIT DESCRIPTION)	WIRE SIZE (AWG)	WIRE TYPE (CU/AL)
1	SMALL APPLIANCE	14	CU	11	RESERVED - CIRCUIT NOT USED	NA	NA	21	RESERVED - CIRCUIT NOT USED	NA	NA
2	SMALL APPLIANCE	14	CU	12	RESERVED - CIRCUIT NOT USED	NA	NA	22	RESERVED - CIRCUIT NOT USED	NA	NA
3	OPT. MICROPHONE	14	CU	13	RESERVED - CIRCUIT NOT USED	NA	NA	23	RESERVED - CIRCUIT NOT USED	NA	NA
4	SMALL APPLIANCE - AND FAULT	14	CU	14	RESERVED - CIRCUIT NOT USED	NA	NA	24	RESERVED - CIRCUIT NOT USED	NA	NA
5	GENERAL PURPOSE - AND FAULT	14	CU	15	RESERVED - CIRCUIT NOT USED	NA	NA	25	RESERVED - CIRCUIT NOT USED	NA	NA
6	GENERAL PURPOSE - AND FAULT	14	CU	16	RESERVED - CIRCUIT NOT USED	NA	NA	26	RESERVED - CIRCUIT NOT USED	NA	NA
7	GENERAL PURPOSE - AND FAULT	14	CU	17	RESERVED - CIRCUIT NOT USED	NA	NA	27	RESERVED - CIRCUIT NOT USED	NA	NA
8	GENERAL PURPOSE - AND FAULT	14	CU	18	RESERVED - CIRCUIT NOT USED	NA	NA	28	RESERVED - CIRCUIT NOT USED	NA	NA
9	GENERAL PURPOSE - AND FAULT	14	CU	19	RESERVED - CIRCUIT NOT USED	NA	NA	29	RESERVED - CIRCUIT NOT USED	NA	NA
10	GENERAL PURPOSE - AND FAULT	14	CU	20	RESERVED - CIRCUIT NOT USED	NA	NA	30	RESERVED - CIRCUIT NOT USED	NA	NA

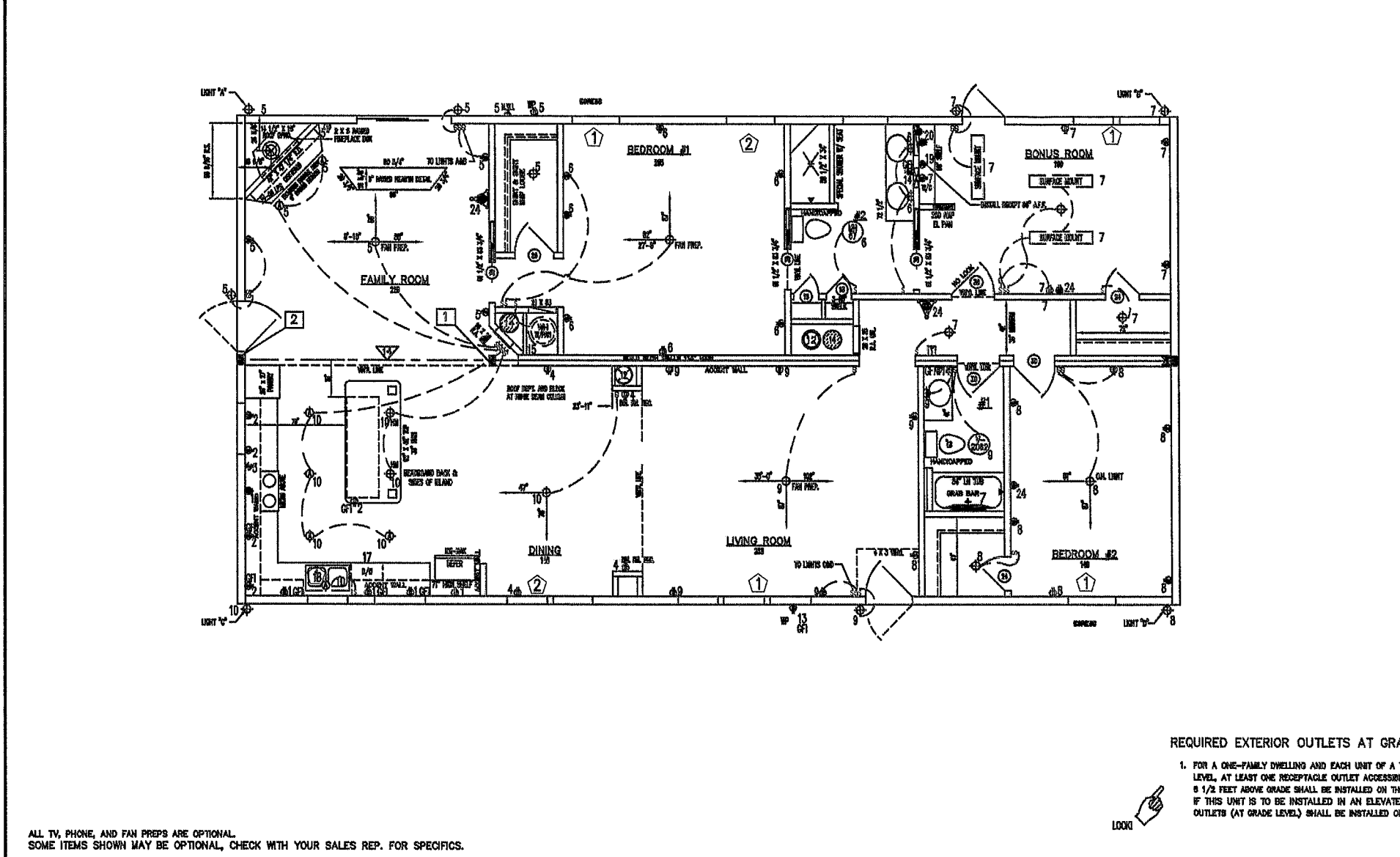


ALL TV, PHONE, AND FAN PREPS ARE OPTIONAL. SOME ITEMS SHOWN MAY BE OPTIONAL, CHECK WITH YOUR SALES REP. FOR SPECIFICS.

TOTAL NUMBER OF CIRCUITS USED: 30
TOTAL NUMBER OF STD. BREAKER SLOTS USED: 30 (NOT INCLUDING DUAL OR PICO BANK BREAKERS)

HVAC ELECTRICAL INFORMATION / GENERAL NOTES:

- A SERVICE RECEPTACLE SHALL BE INSTALLED WITHIN 25' OF THE HVAC EQUIPMENT (UNIT). THIS REQUIRED RECEPTACLE SHALL BE INSTALLED ON-SITE, BY OTHERS (BY A CERTIFIED ELECTRICAL CONTRACTOR).
- HVAC SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT THAT IS BEING SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL OF THE UNGROUNDED CONDUCTORS SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS, WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER. THIS REQUIRED DISCONNECT SHALL BE INSTALLED ON-SITE, BY OTHERS.
- CERTIFIED ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL LOAD CALCULATIONS AFTER THE HEATING AND AIR-CONDITIONING SYSTEMS HAVE BEEN INSTALLED (BY OTHERS). THE HVAC UNIT & RECD. ELEC. IS SUPPLIED & INSTALLED ON-SITE, BY OTHERS. The sizing and installation of the main breaker for the HVAC system, as well as any required emergency/quick disconnect, shall be completed by a qualified, Florida Licensed, Electrical Contractor and is subject to inspection and approval by the local jurisdiction having authority. This Electrical Contractor shall also verify proper panel and breaker sizing and installation of the entire building, before any power is supplied to the main electrical panel or any portion of the building.



REQUIRED EXTERIOR OUTLETS AT GRADE LEVEL:

- FOR A ONE-FAMILY DWELLING AND EACH UNIT OF A TWO-FAMILY DWELLING THAT IS AT GRADE LEVEL, AT LEAST ONE RECEPTACLE OUTLET ACCESSIBLE AT GRADE LEVEL AND NOT MORE THAN 6 1/2 FEET ABOVE GRADE SHALL BE INSTALLED ON THE FRONT AND THE BACK OF THE DWELLING. IF THIS UNIT IS TO BE INSTALLED IN AN ELEVATED CONDITION, ANY REQUIRED EXTERIOR OUTLETS (AT GRADE LEVEL) SHALL BE INSTALLED ON-SITE, BY OTHERS.

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

- IN EACH SLEEPING ROOM.
- OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM.
- ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BARNHOLDS, BUT NOT INCLUDING CHIMNEY SPACES AND UNHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH WHOLE HOUSE AND WITHOUT INTERIOR DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL, PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.

WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT THE ALARM INVERTER SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.

ALL SMOKE ALARMS SHALL BE LISTED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC AND THE HOUSEHOLD FIRE SAVING EQUIPMENT PROGRAM OF NFPA 72.

THE REQUIRED SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS DEEMED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVER CURRENT PROTECTION.

ELECTRICAL NOTES:

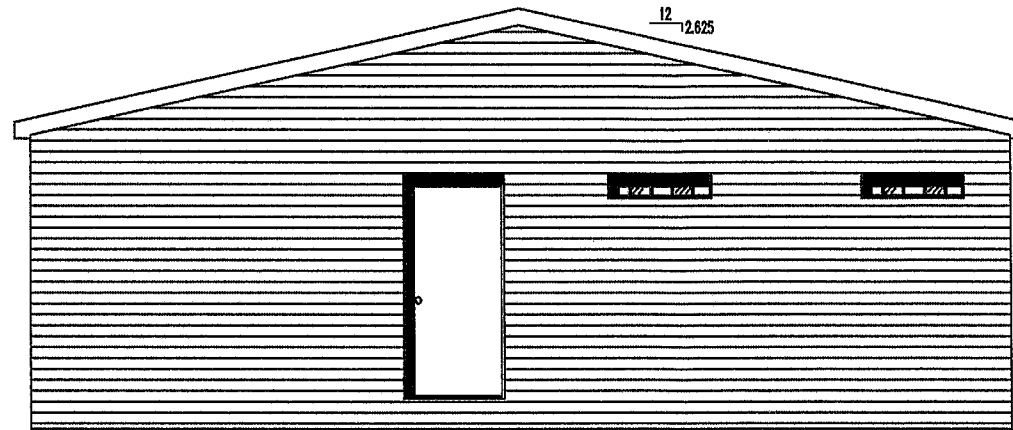
- A LICENSED ELECTRICAL CONTRACTOR (LICENSED / CERTIFIED IN THE STATE OF FLORIDA) SHALL MAKE ALL REQUIRED ON-SITE ELECTRICAL CONNECTIONS. ALL OF THE ON-SITE CONNECTIONS ARE SUBJECT TO LOCAL INSPECTION AND APPROVAL.
- DWELLINGS - ALL 120-VOLT, SINGLE PHASE, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS IN ALL BEDROOMS, LIVING ROOMS, DINING ROOMS, CLOSETS, HALLS, BATHS, KITCHENS, AND SIMILAR AREAS SHALL BE PROTECTED BY AN ANO-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. ALL SMOKE ALARMS SHALL BE INTERCONNECTED SO THAT THE ACTIVATION OF ANY ONE ALARM WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHER SMOKE ALARMS. ALL SMOKE ALARMS SHALL BE EQUIPPED WITH A BATTERY BACK-UP FEATURE IN CASE OF PRIMARY POWER FAILURE AND / OR INTERRUPTION. ALL SMOKE ALARMS ARE EQUIPPED WITH A "HUSH" BUTTON.
- SMOKE ALARMS AND CARBON MONOXIDE ALARMS MAY BE WALL OR CEILING MOUNTED (IN ACCORDANCE WITH THEIR LISTINGS).
- ANY ADDITION OF A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, OR AN ATTACHED GARAGE REQUIRES THE INSTALLATION OF AN OPERATIONAL CARBON MONOXIDE ALARM WITHIN 10 FEET OF ANY ROOM USED FOR SLEEPING PURPOSES (BY OTHERS).
- LIGHTING OUTLETS REQUIRED: AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND BATHROOM.
- ALL RECEPTACLE OUTLETS LOCATED WITHIN SIX FEET OF A SINK OR BASIN SHALL BE EQUIPPED WITH GFCI PROTECTION FOR PERSONNEL. ALL RECEPTACLE OUTLETS SERVING COUNTERTOPS, LOCATED IN THE KITCHEN SHALL BE EQUIPPED WITH GFCI PROTECTION FOR PERSONNEL.
- ALL RECEPTACLE OUTLETS INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE EQUIPPED WITH A WEATHER PROOF (WP) ENCLOSURE (COVER), THE INTEGRITY OF WHICH IS NOT EFFECTED WHEN AN ATTACHMENT PLUG IS INSERTED OR REMOVED FROM THE RECEPTACLE OUTLET. GFCI PROTECTION MAY BE PROVIDED BY EITHER A BREAKER OR A GFCI RECEPTACLE.
- IN ALL BUILDINGS, AT LEAST ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS WITHIN 36 INCHES (3 FEET) OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL OR PARTITION THAT IS ADJACENT TO THE BASIN OR THE BASIN COUNTERTOP.
- THE DISHWASHER AND GARBAGE DISPOSAL MAY BE INSTALLED ON ONE (1) 20 AMPERE (12-2) CIRCUIT. FAN / LIGHT COMBINATIONS SHALL BE INSTALLED WITH SEPARATE SWITCHES.
- CEILING FANS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE BLADES TO THE FINISHED FLOOR LEVEL WILL BE 80 INCHES MINIMUM. CEILING FANS HAVE BEEN INCLUDED IN THE ELEC. LOAD CALC. IN EVERY ROOM, THEREFORE THEY CAN BE INSTALLED WITHOUT ANY PLAN REAPPROVAL.
- LOAD CALCULATIONS, RECEPTACLES, AND / OR OTHER FIXTURES MAY BE RELOCATED FROM THE AREA SHOWN ON THESE APPROVED PLANS / DETAILS DUE TO CONSTRUCTION RESTRAINTS. ALL LOCATIONS SHALL COMPLY WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (NEC).
- FOR "ON-FRAME" MODULAR PLANS, THE MAIN ELECTRICAL PANEL SHALL ALSO BE BONDED TO THE CHASSIS OF THE SECTION ON WHICH IT IS INSTALLED. A BONDING "JUMPER" SHALL ALSO BE INSTALLED BETWEEN ALL CHASSIS SECTIONS FOR THE ENTIRE UNIT OR UNITS CONNECTED. ALL REQUIRED BONDING/GROUND CONNECTIONS SHALL BE MADE BY A CERTIFIED (LICENSED) ELECTRICAL CONTRACTOR (ON-SITE, BY OTHERS) AND ARE SUBJECT TO INSPECTION BY THE LOCAL JURISDICTION.
- THE MAIN ELECTRICAL SERVICE PANEL IS WIRED UTILIZING AN ISOLATED NEUTRAL/GROUND (4 WIRE SYSTEM) FROM THE FACTORY. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR TO PROVIDE THE BONDING BETWEEN THE NEUTRAL AND GROUND IF REQUIRED.
- SOME ITEMS SHOWN MAY BE OPTIONAL OR REQUIRE INSTALLATION ON-SITE.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:

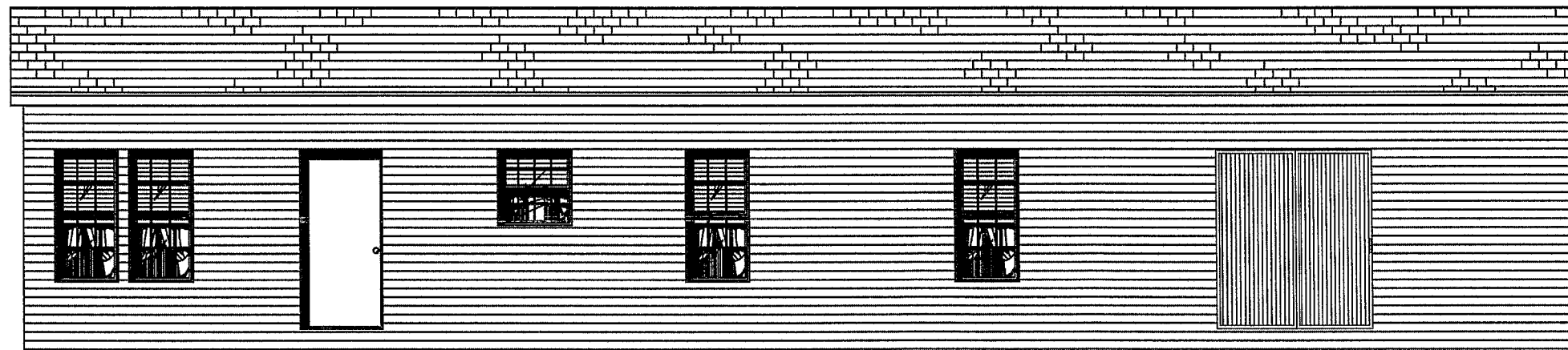
3-28-14

COMPLIES W/ 2010 FLORIDA RES. CODE, INCLUDING ALL 2012 AMENDMENTS

CONSTRUCTION TYPE	1-5	SEISMO LOAD	0
OCCUPANCY	R-3	FIRE RATING OF EXTERIOR WALLS	0
WIND VELOCITY	150 MPH	TOTAL NUMBER OF STORIES	1
WIND EXPOSURE CATEGORY	0	HIGH VELOCITY WINDWANE ZONE	NO
MAX. MEAN ROOF HEIGHT	35 FEET	MARKETPLACE	100%
ALLOWABLE FLOOR LOAD	40 PSF	PLAN AREA	100%
ALLOWABLE ROOF LOAD	20 PSF	PLAN AREA	100%



LEFT ELEVATION



REAR ELEVATION



16" X 8" TYPICAL VENT-
FOUNDATION VENTILATION

ELEVATION NOTES:
SEE CROSS-SECTION FOR
ROOF VENTILATION

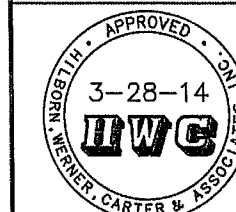
FOUNDATION SITE INSTALLED BY
OTHERS, SUBJECT TO LOCAL CODES
AND JURISDICTION.

ELEVATION NOTES:

- FOUNDATION IS INSTALLED ON-SITE, BY OTHERS AND IS SUBJECT TO ALL STATE AND LOCAL CODES AND INSPECTIONS.
- SOME ITEMS SHOWN MAY BE ON-SITE, BY OTHERS. SITE ITEMS MAY VARY, NOT COVERED BY THESE APPROVED PLANS.
- WHEN INSTALLED, THE GARAGE FLOOR AND REQ'D FOUNDATION ARE ON-SITE, BY OTHERS.
- ANY STEPS AND RAILS ARE ON-SITE, BY OTHERS.
- LANDSCAPING TYPICAL, ON-SITE, BY OTHERS.
- AC AND HEATING UNITS ARE INSTALLED ON-SITE, BY OTHERS AND MAY BE RELOCATED FROM SHOWN.
- ELEVATION IS TYPICAL ONLY. ON-SITE PORTIONS OF EXTERIOR MAY BE CHANGED BY THE BUILDING CONTRACTOR, SUBJECT TO LOCAL APPROVAL.
- ROOF VENTILATION MAY BE ACCOMPLISHED THROUGH THE USE OF EITHER VENTILATED EAVES OR ROOF VENTS. EITHER OF THESE METHODS MAY BE USED SEPARATELY OR IN COMBINATION.
- ROOF OVERHANG (EAVES) SIZES MAY VARY. TYPICAL FRONT AND REAR EAVES ARE 13 1/2" AND SIDE EAVES VARY FROM 10" TO 6" NOMINAL SIZES.
- BATH EXHAUST FANS SHALL BE VENTED TO THE EXTERIOR OF THE BUILDING AND SHALL NOT EXHAUST INTO THE ROOF CAVITY OR OTHER CONCEALED SPACE.
- THIS BUILDING MAY BE MIRRORED WITHOUT ANY RE-APPROVAL OF THESE PLANS (MAY BE "FLIPPED" SIDE TO SIDE AND/OR END TO END).
- FOUNDATION VENTS ARE TYPICAL ONLY. ALL FOUNDATION VENTILATION IS ON-SITE, BY OTHERS.
- SOME ITEMS SHOWN MAY BE OPTIONAL.
- SOME ITEMS SHOWN MAY REQUIRE SITE INSTALLATION.
- SOME ITEMS SHOWN MAY BE ON-SITE, BY OTHERS.
- THESE ELEVATIONS ARE TYPICAL ARCHITECTURAL DESIGNS AND MAY VARY FROM THE ACTUAL ELEVATION OF THE FINAL STRUCTURE. ITEMS SUCH AS SIDING TYPE, SHINGLE TYPE, SHUTTERS, DECORATIVE ITEMS, ETC., MAY VARY FROM THESE ELEVATIONS SHOWN.
- STEPS AND RAILS ARE ON-SITE, BY OTHERS.
- ENGINEERING FOR SITE ITEMS, BY OTHERS.
- ALL ITEMS RELATING TO ACCESSIBILITY ON THE SITE ARE DESIGNED AND INSTALLED BY OTHERS (NOT JACOBSEN) AND ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL JURISDICTION HAVING AUTHORITY.
- MAY BE MIRRORED WITHOUT RE-APPROVAL OF PLANS.

WHEN FOUNDATION PLANS ARE DESIGNED BY OTHERS, JACOBSEN HOMES AND ITS THIRD PARTY APPROVAL AGENCY(S) ALONG WITH THE ARCHITECT AND/OR ENGINEER OF THE BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:



CONSTRUCTION TYPE	V-3	SEISMOIC LOAD	0
OCCUPANCY	R-3	FIRE RATING OF EXTERIOR WALLS	0
WIND VELOCITY	150 MPH	TOTAL NUMBER OF STOREYS	1
WIND EXPOSURE CATEGORY	NO BUILD	WIND VELOCITY HURRICANE ZONE	NO
MAX. MEAN ROOF HEIGHT	16 FEET	MANUFACTURER	JACOBSEN HOMES
ALLOWABLE FLOOR LOAD	40 PSF	PLAN NO.	MIMP-5601W-M818
ALLOWABLE ROOF LOAD	30 PSF		

COMPLIES W/ 2010 FLORIDA RES. CODE,
INCLUDING ALL 2012 AMENDMENTS

Professional Engineer (P.E.) stamp for Michael G. Tomko, License No. 63802, State of Florida, dated 3-28-14.

22020 COUNTY ROAD 18, SUITE 005H2B, IN 46528
(574) 830-5315

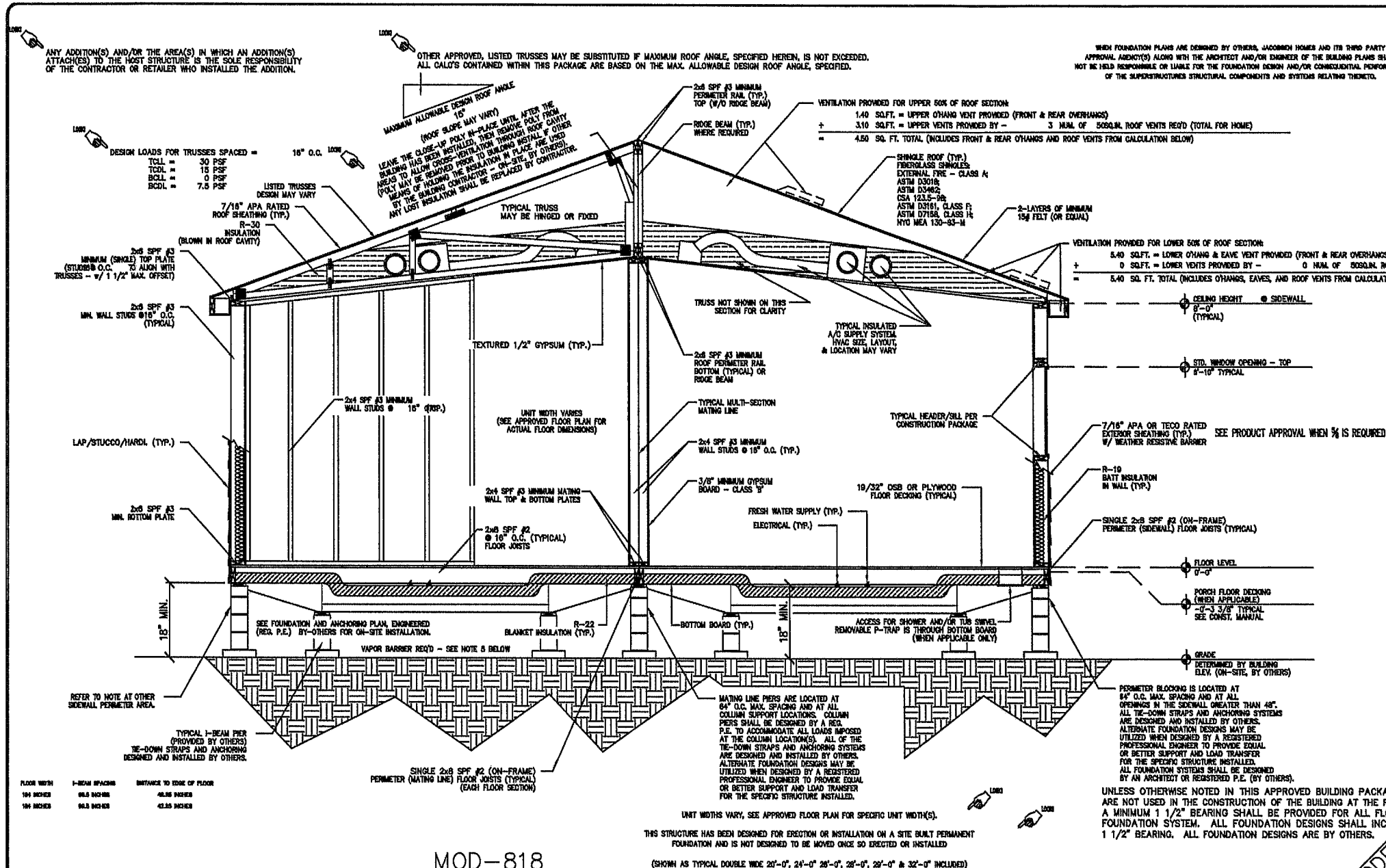
MIMP-5601W-M818
150 MPH - Vult (Ultimate)

EXTERIOR ELEVATIONS

Revisions	By	Date
1	G.YOUNG	8/1/2013
2		
3		
4		
5		

Drawn:	NTA-CMS
Checked:	NTA
Date:	8/19/2013
Scale:	NTS

Sheet:	6 OF 15
WEC:	Exposure C
DWS:	150 MPH
Model:	MOD-818



MOD-818
TYP. CROSS-SECTION
P14
SCALE: NTS

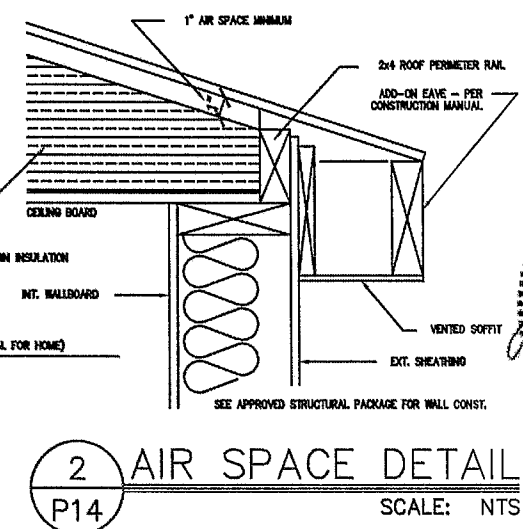
ROOF SYSTEM SQUARE FOOTAGE	1840	SQ. FT.	6.13	SQ. FT. TOTAL REQUIRED VENT (TOTAL UPPER & LOWER)
300 (w/ VAPOR BARRIER)	300			
TOTAL UPPER VENT ACTUALLY PROVIDED:	4.50	SQ. FT. (INCLUDES O'HANGS AND VENTS)		
1.40 SQ. FT. = UPPER O'HANG VENT PROVIDED				
3.10 SQ. FT. = UPPER ROOF VENTS PROVIDED				
3 NUM. OF SOGOLIN ROOF VENTS REQ'D (TOTAL FOR HOME)				
MINIMUM UPPER VENT REQUIRED (50% OF THE TOTAL):	3.48	SQ. FT. (TOTAL REQ'D VENT x 0.50)		
DIFFERENCE BETWEEN REQ'D & ACTUAL:	2.06	SQ. FT.	PASS	
TOTAL LOWER VENT ACTUALLY PROVIDED:	7.58	SQ. FT. (INCLUDES O'HANGS AND EAVES)		
5.40 SQ. FT. = LOWER O'HANG & EAVE VENT PROVIDED				
0 SQ. FT. = LOWER ROOF VENTS PROVIDED				
0 NUM. OF SOGOLIN LOWER ROOF VENTS REQ'D (TOTAL FOR HOME)				
MINIMUM LOWER VENT REQUIRED (50% OF THE TOTAL):	3.48	SQ. FT. (TOTAL REQ'D VENT x 0.50)		
DIFFERENCE BETWEEN REQ'D & ACTUAL:	4.10	SQ. FT.	PASS	

4
ROOF VENT CALC
P14
SCALE: NTS

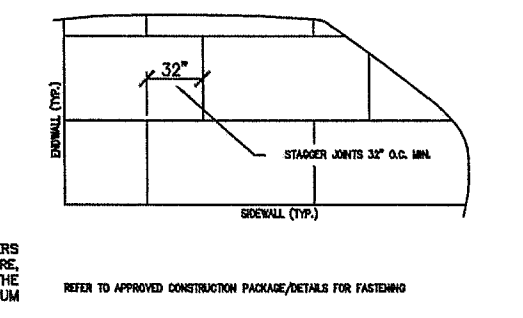
NOTES:

1. ALL STEEL MUST COMPLY WITH ASTM A-36 (36 KSI MINIMUM).
2. ALL LAG SCREWS MUST COMPLY WITH ASTM A-307
3. FOR FOUNDATION SPECIFICS, REFER TO THE FOUNDATION PLAN DESIGNED AND ENGINEERED BY OTHERS.
4. ALL FASTENERS INTO TREATED LUMBER SHALL BE APPROVED FOR INSTALLATION INTO TREATED LUMBER.
5. WHEN THE AREA BENEATH THE BUILDING/STRUCTURE IS ENCLOSED, MIN. 8 MIL. POLY VAPOR BARRIER REQ'D OVER AREA BELOW THE BUILDING OR STRUCTURE (ON-SITE, BY OTHERS). THIS VAPOR BARRIER IS REQUIRED BY JACOBSEN HOMES REGARDLESS OF CODE REQUIREMENTS AND/OR SPECIFICATIONS. OMITTING THE VAPOR BARRIER WILL EFFECT ANY WARRANTY OFFERED OR IMPLIED BY JACOBSEN HOMES.

CONSTRUCTION SPECIFICATIONS:									
FLOOR AND TRANSPORTATION CARRIER (CHASSIS/FRAME) INFO:		MASTER MODEL		FLOOR JOISTS		FLOOR INSULATION		F-22	
TOTAL NUMBER OF AXLES	1	MIN. NUMBER OF BRAKE AXLES	1	FLOOR JOIST TYPE	2x8 SPF #3	FLOOR COVERING	1/2" OSB OR PLYWOOD	MIN. 1/4" POLY VAPOR BARRIER	NA
CHASSIS - MAX. HEIGHT	16"	MIN. NUMBER OF FLOOR JOIST SPACINGS	16" O.C.	EXT. DOORS	7/16" APA OR TECO RATED	POUR CONCRETE	1/2" OSB OR PLYWOOD	MIN. 1/4" POLY VAPOR BARRIER	NA
SHALLS / WINDOWS / DOORS - INFO:		BOTTOM PLATE (EXT.)		CEILING		WALL INSULATION		R-19	
EXTERIOR STUBS	2x8 SPF #3	EXT. SHEATHING	2x8 SPF #3	CEILING	7/16" APA OR TECO RATED	WALL INSULATION	EXT. DOORS	WALL INSULATION	EXT. DOORS
TOP PLATE (EXT.)	2x8 SPF #3			CEILING	7/16" APA OR TECO RATED	WALL INSULATION	EXT. DOORS	WALL INSULATION	EXT. DOORS
EXTERIOR AND ROOF INFO:		LAP/STUCCO/HARDI (TYP.)		ROOFING		SHINGLES OR METAL (TYP.)		R-30	
EXT. WALL FINISH	NOT STRUCTURAL (OPT.)	ROOFING	SHINGLES OR METAL (TYP.)	CEILING	TEXTURED 1/2" GYPSUM (TYP.)	ROOF INSULATION	TRUSS SPACING	TRUSS SPACING	16" O.C.
EXT. WALL FINISH	NOT STRUCTURAL (OPT.)	ROOFING	SHINGLES OR METAL (TYP.)	CEILING	TEXTURED 1/2" GYPSUM (TYP.)	ROOF INSULATION	TRUSS SPACING	TRUSS SPACING	16" O.C.
AIR CONDITIONING AND HEATING (HVAC) INFO:		(DUCTED RETURN AIR SYSTEM)		CEILING		WALL INSULATION		R-19	
A/C TYPE	REFER TO ENERGY CALCS	MIN. SECT.	REFER TO ENERGY CALCS	CEILING	TEXTURED 1/2" GYPSUM (TYP.)	ROOF INSULATION	TRUSS SPACING	TRUSS SPACING	16" O.C.
HEAT TYPE	REFER TO ENERGY CALCS	MIN. SECT.	REFER TO ENERGY CALCS	CEILING	TEXTURED 1/2" GYPSUM (TYP.)	ROOF INSULATION	TRUSS SPACING	TRUSS SPACING	16" O.C.
HYDROHEAT / OTHER INFORMATION:		NUMBER OF BATHS		NUMBER OF WATER HEATERS		WATER HEATER TYPE		WATER HEATER TYPE	
NUMBER OF BATHS	2	NUMBER OF WATER HEATERS	1	WATER HEATER TYPE	WATER HEATER TYPE	WATER HEATER TYPE	WATER HEATER TYPE	WATER HEATER TYPE	WATER HEATER TYPE
# OF ACCESSIBLE BATHS	0	# OF ACCESSIBLE BATHS	0	# OF ACCESSIBLE BATHS	0	# OF ACCESSIBLE BATHS	0	# OF ACCESSIBLE BATHS	0
# OF STANDARD BATHS	2	# OF STANDARD BATHS	2	# OF STANDARD BATHS	2	# OF STANDARD BATHS	2	# OF STANDARD BATHS	2
# OF ACCESSIBLE LAVS	0	# OF ACCESSIBLE LAVS	0	# OF ACCESSIBLE LAVS	0	# OF ACCESSIBLE LAVS	0	# OF ACCESSIBLE LAVS	0



2
AIR SPACE DETAIL
P14
SCALE: NTS



3
ROOF SHEATHING
P14
SCALE: NTS

3-28-2014

FLORIDA PROFESSIONAL ENGINEER

Michael Tomko

No. 63802

22020 COUNTY ROAD 18, SUITE 400, GREEN, IN 46528

(574) 830-5315

MIMP-5601W (M818*)

150 MPH - Vult (Ultimate)

TYPICAL CROSS-SECTION (ON-FRAME)

Revisions		
By	Date	

Drawn: C. MYRICE

Checked: M.T./N.T.

Date: 11/13/2013

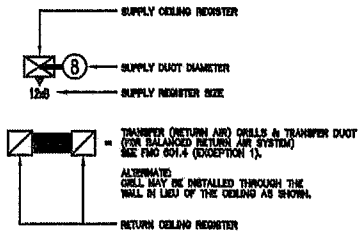
Scale: 3/16" = 1'-0"

Sheet: 8 OF 15

WEC: Exposure C

DW: 150 MPH

Model: MOD-818



MECHANICAL NOTES:

- ALL AIR SUPPLY REGISTERS ARE ADJUSTABLE, EXCEPT WHERE OTHERWISE SPECIFIED ON THE PLANS.
- INTERIOR DOORS SHALL BE UNDERCUT 1" ABOVE THE FINISHED FLOOR FOR RETURN AIR AND/OR AS SPECIFICALLY NOTED ON THE PLANS.
- RESIDENTIAL APPLICATIONS: RESTROOM VENT FANS SHALL PROVIDE 50 CFM MINIMUM OF VENTILATION.
- COMMERCIAL APPLICATIONS: RESTROOM VENT FANS SHALL PROVIDE 75 CFM MINIMUM OF VENTILATION.
- BATH VENT FANS SHALL BE DUCTED TO THE EXTERIOR OF THE BUILDING.
- HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKE(S) PROVIDING 20 CFM FOR EACH OCCUPANT OR 60 CFM FOR EACH WATER CLOSET AND/OR URINAL, WHICHEVER IS GREATER. THIS IS REQUIRED TO BE INSTALLED ON-SITE, BY OTHERS.
- A SERVICE RECEPTACLE SHALL BE INSTALLED WITHIN 25' OF THE HVAC EQUIPMENT (UNIT). THIS REQ'D RECEPTACLE IS REQUIRED TO BE INSTALLED ON-SITE, BY A CERTIFIED ELECTRICAL CONTRACTOR. A LISTED QUICK DISCONNECT SHALL ALSO BE INSTALLED AS REQUIRED BY THE NEC OR OTHER APPLICABLE CODE(S); ON-SITE, BY AN CERTIFIED ELECTRICAL CONTRACTOR.

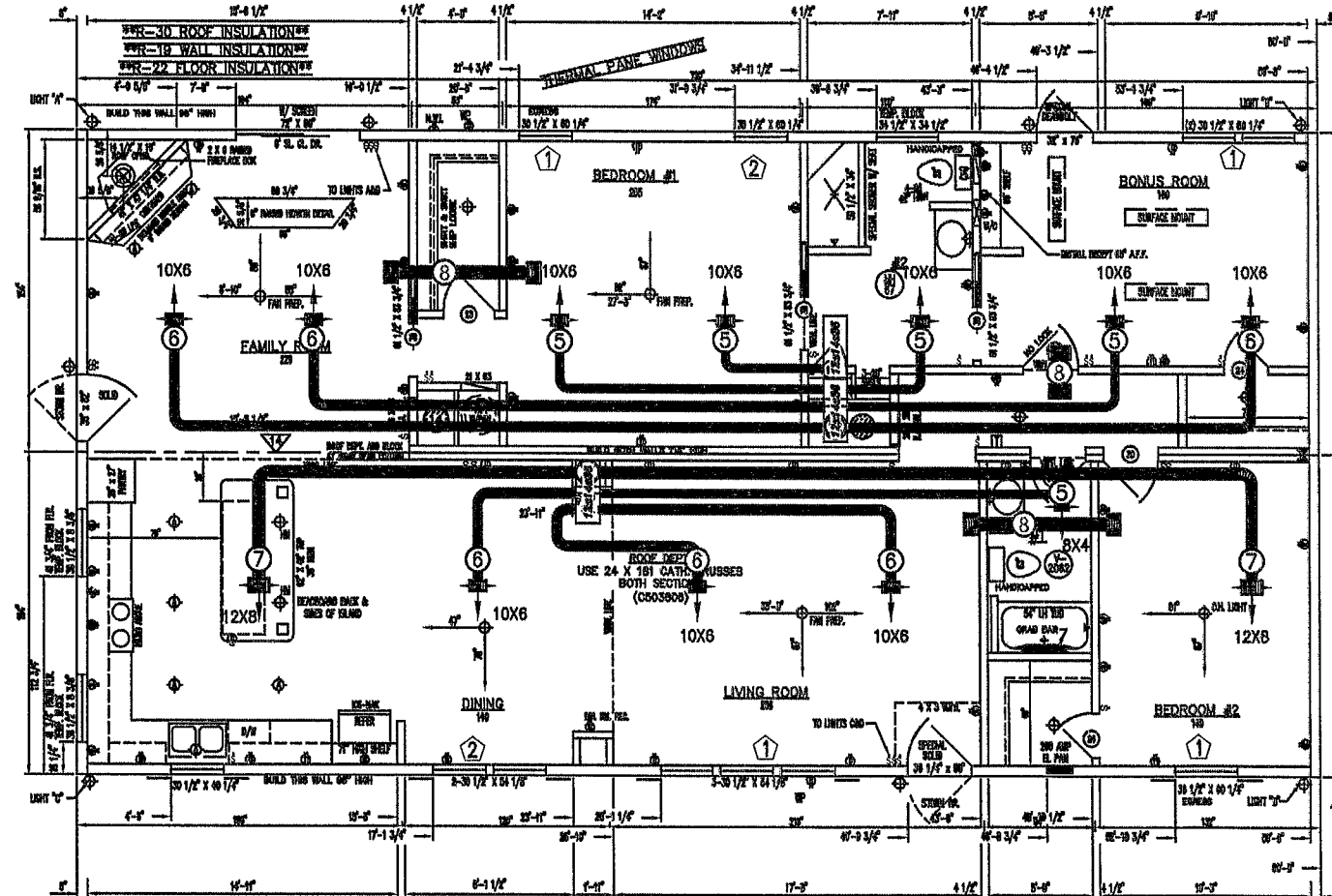
MECHANICAL NOTES: (CONTINUED):

- ALL DUCTS AND DUCT SYSTEM COMPONENTS INSTALLED IN THE ATTIC AREA WITH INSULATION, SHALL HAVE A MINIMUM R-VALUE OF R-8.0.
- ALL DUCTS AND DUCT SYSTEM COMPONENTS INSTALLED ON THE EXTERIOR OF THE BUILDING, SHALL HAVE A MINIMUM R-VALUE OF R-8.0 OR AS ALLOWED BY TABLE 13-401.1 ASG2.2 (SEE TABLE NOTES) IN THE F. ENERGY CODE.
- ALL HVAC COMPONENTS INSTALLED ON-SITE, SHALL BE INSTALLED BY A LICENSED HVAC CONTRACTOR.
- ANY AIR HANDLER / RETURN AIR COMPARTMENTS SHALL BE FIRE STOPPED AND SEALED IN ACCORDANCE WITH THE FBC, ON-SITE, BY OTHERS.
- SOME BUILDINGS MAY REQUIRE DUCT WORK TO BE INSTALLED AND/OR COMPLETED ACROSS THE MATING LINE AREA(S) OF THE BUILDING. IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO INSURE THAT THIS WORK IS COMPLETE BEFORE THE BUILDING IS CLOSED-UP AND THIS WORK CANNOT EASILY BE COMPLETED.
- OPT. FACTORY BUILT FIREPLACES INSTALLED IN ACCORDANCE W/ FBC.

MINIMUM REQUIRED EQUIPMENT SPECS: ALL CLIMATE ZONES:

- PROGRAMMABLE THERMOSTAT IS REQUIRED TO BE INSTALLED.
- REFER TO THE FLORIDA ENERGY CALCULATIONS INCLUDED WITHIN THIS APPROVED DRAWING PACKAGE FOR MINIMUM SPECIFICATIONS. IN ALL CASES, THE MINIMUM EQUIPMENT SPECIFIED SHALL BE INSTALLED.
- FAILURE TO INSTALL HEATING OR COOLING EQUIPMENT THAT PRODUCES THE TOTAL DESIGN CFM FOR THIS BUILDING (REFER TO APPLICATION ENGINEERING FOR HEATING AND COOLING AND/OR THE FLORIDA ENERGY CALCULATIONS - ATTACHMENTS) MAY RESULT IN AN UNBALANCED DUCT SYSTEM. A MANUAL-J FORM IS REQUIRED TO BE COMPLETED BY A LICENSED HVAC CONTRACTOR ONCE THE BUILDING IS INSTALLED ON-SITE TO INSURE THAT THE AC/HEATING EQUIPMENT IS PROPERLY SIZED (THIS IS REQUIRED AND IS ON-SITE, BY OTHERS - NOT JACOBSEN HOMES).

- ALL EXTERIOR DEVICES SHALL BE INSTALLED WITH A LISTED WEATHER PROOF AND/OR WEATHER RESISTANT COVER(S) - INCLUDING ALL EXT. RECEPTACLES & LIGHT FIXTURES.
- ALL RECEPTACLES INSTALLED ON THE EXTERIOR OF THE DWELLING UNIT SHALL BE LISTED FOR SUCH USE AND SHALL BE LABELED "W" (WEATHER RESISTANT).



SOLID FUEL BURNING FIREPLACE:
WHEN INSTALLED, FIREPLACE SHALL COMPLY WITH UL-127

ON-FRAME NOTE

2x8 MINIMUM FLOOR SYSTEM REQUIRED

- * PERIMETER AND MATING LINE PIERS ARE REQUIRED.
- ** ALL SHEAR WALLS SHALL HAVE A PIER INSTALLED AT BOTH THE SIDEWALL AND THE MATING LINE AREAS,

*** ALL I-BEAM (CHASSIS) LOCATIONS SHALL HAVE PIERS ADEQUATE TO SUPPORT ALL INDUCED LOADS. FOUNDATION AND TIE-DOWN SYSTEMS ARE BY OTHERS (NOT JACOBSEN). FOUNDATION PER FBC AND STD. ENGINEERING PRACTICES.

OFF-FRAME NOTE

2x10 MINIMUM FLOOR SYSTEM REQUIRED

- * PERIMETER AND MATING LINE PIERS ARE REQUIRED.
- ** ALL SHEAR WALLS SHALL HAVE A PIER INSTALLED AT BOTH THE SIDEWALL AND THE MATING LINE AREAS,

LaSalle Air Systems
Engineered System Using
Overhead Graduated Flex
Ducts w/ Ceiling Diffusers
for Ext. Package A/C(H/P)



3/28/2014

MICHAEL G. TOMKO
P.E.
Florida License No 63802

22020 COUNTY ROAD 18, SUITE 400
GOODYEAR, AZ 85506
(602) 830-5315

MIMP-5601W-M818
150 MPH - Vult (Ultimate)

HVAC SYSTEM LAYOUT

Revisions		
By	Date	
Q.YOUNG	8/1/2013	

Drawn:	NTA-CMS
Checked:	NTA
Date:	8/16/2013
Scale:	NTS

Sheet:	9 OF 15
WEC:	Exposure C
DWs:	150 MPH
Model:	MOO-618

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:

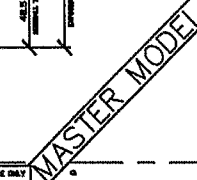
3-28-14

UWC

COMPLIES W/ 2010 FLORIDA RES. CODE,
INCLUDING ALL 2012 AMENDMENTS

HVAC LAYOUT

SOLID FUEL BURNING FIREPLACE:
FIREPLACE SHALL COMPLY WITH UL-127



22020 COUNTY ROAD 16, SUITE
GOSHEN, IN 46528
(574) 830-3515

MIMP--5601W (M818*)
150 MPH - Vult (Ultimate)

SHEARWALL CALCULATIONS

Revisions		
△	By	Date
1		
2		
3		
4		
5		

SHEARWALL HEIGHT (ft)

98 / 3.5 = 27.428 INCHES / 12.0 =

MINIMUM ALLOWABLE SHEARWALL LENGTH

98 / 3.5 = 27.428 INCHES / 12.0 =

7/8" APA OR TWO TIMES SHEATHING - ONE SIDE ONLY

7/8" APA OR TWO TIMES SHEATHING - ONE SIDE ONLY

WALL TO FLOOR/WALL/CEILING FINISH

WALL TO FLOOR/WALL/CEILING FINISH

DESIGN SHEAR VALUE (DSV)

DESIGN SHEAR VALUE (DSV)

SHEARWALL HEIGHT

SHEARWALL HEIGHT

OVERTURNING POINT LOAD

OVERTURNING POINT LOAD

WALL 1:

WALL SECTION

184 INCHES

WALL SECTION

184 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

TOTAL LENGTH OF WALL

368 INCHES

DIVIDED BY

12.000 INCHES

TOTAL LENGTH OF WALL

30.667 FEET

TOTAL TRIBUTARY SPAN

30 FEET

END ZONE DISTANCE

7.56 FEET

INTERIOR ZONE DISTANCE

22.32 FEET

(FEET)

WALL ROOF HT. x DWP = LOAD IN POUNDS

7.56 x 4.042 x 32.81 = 1012.290 POUNDS

WALL INTERIOR ZONE LOADS

22.32 x 4.042 x 21.66 = 1855.914 POUNDS

ROOF END ZONE LOADS

7.56 x 4.243 x 10.81 = 352.257 POUNDS

ROOF INTERIOR ZONE LOADS

22.32 x 4.243 x 10 = 947.538 POUNDS

TOTAL LOAD FOR SHEARWALL

4287.007 POUNDS

DESIGN SHEAR VALUE (DSV)

36.126 PLF

SHEARWALL HEIGHT

0.0 FEET

OVERTURNING POINT LOAD

1322 POUNDS

WALL 3:

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

TOTAL LENGTH OF WALL

0 INCHES

DIVIDED BY

12.000 INCHES

TOTAL LENGTH OF WALL

0 FEET

TOTAL TRIBUTARY SPAN

0 FEET

END ZONE DISTANCE

0 FEET

INTERIOR ZONE DISTANCE

0 FEET

(FEET)

WALL ROOF HT. x DWP = LOAD IN POUNDS

0 x 4.042 x 32.81 = 0 POUNDS

WALL INTERIOR ZONE LOADS

0 x 4.042 x 21.66 = 0 POUNDS

ROOF END ZONE LOADS

0 x 4.243 x 10.81 = 0 POUNDS

ROOF INTERIOR ZONE LOADS

0 x 4.243 x 10 = 0 POUNDS

TOTAL LOAD FOR SHEARWALL

0 POUNDS

DESIGN SHEAR VALUE (DSV)

0 PLF

SHEARWALL HEIGHT

0 FEET

OVERTURNING POINT LOAD

0 POUNDS

WALL 5:

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

TOTAL LENGTH OF WALL

0 INCHES

DIVIDED BY

12.000 INCHES

TOTAL LENGTH OF WALL

0 FEET

TOTAL TRIBUTARY SPAN

0 FEET

END ZONE DISTANCE

0 FEET

INTERIOR ZONE DISTANCE

0 FEET

(FEET)

WALL ROOF HT. x DWP = LOAD IN POUNDS

0 x 4.042 x 32.81 = 0 POUNDS

WALL INTERIOR ZONE LOADS

0 x 4.042 x 21.66 = 0 POUNDS

ROOF END ZONE LOADS

0 x 4.243 x 10.81 = 0 POUNDS

ROOF INTERIOR ZONE LOADS

0 x 4.243 x 10 = 0 POUNDS

TOTAL LOAD FOR SHEARWALL

0 POUNDS

DESIGN SHEAR VALUE (DSV)

0 PLF

SHEARWALL HEIGHT

0 FEET

OVERTURNING POINT LOAD

0 POUNDS

WALL 7:

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

WALL SECTION

0 INCHES

TOTAL LENGTH OF WALL

0 INCHES

DIVIDED BY

12.000 INCHES

TOTAL LENGTH OF WALL

0 FEET

TOTAL TRIBUTARY SPAN

0 FEET

END ZONE DISTANCE

0 FEET

INTERIOR ZONE DISTANCE

0 FEET

(FEET)

WALL ROOF HT. x DWP = LOAD IN POUNDS

0 x 4.042 x 32.81 = 0 POUNDS

WALL INTERIOR ZONE LOADS

0 x 4.042 x 21.66 = 0 POUNDS

ROOF END ZONE LOADS

0 x 4.243 x 10.81 = 0 POUNDS

ROOF INTERIOR ZONE LOADS

0 x 4.243 x 10 = 0 POUNDS

TOTAL LOAD FOR SHEARWALL

0 POUNDS

DESIGN SHEAR VALUE (DSV)

0 PLF

SHEARWALL HEIGHT

0 FEET

OVERTURNING POINT LOAD

0 POUNDS

[illegible]

Drawn:	C. MYRICE
Checked:	NTA
Date:	11/13/2013
Scale:	3/16" = 1'-0"

Sheet:

11 OF 15

WEC: Exposure 0
 DWs: 150 MPH
 Model: MOD-B18

JACOBSEN HOMES, SAFETY HARBOR, FLORIDA. ALL RIGHTS RESERVED.

THE FOUNDATION PLANS ARE DESIGNED BY OTHERS, JACOBSEN HOMES AND ITS THIRD PARTY APPROVAL AGENCY(S) ALONG WITH THE ARCHITECT AND/OR ENGINEER OF THE BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

MAXIMUM ALLOWABLE DESIGN ROOF ANGLE
15°
(ROOF SLOPE MAY VARY)

INSTALLING A MODULAR STRUCTURE/BUILDING CAN BE EXTREMELY DANGEROUS. ONLY QUALIFIED PERSONNEL SHOULD ATTEMPT TO INSTALL A MODULAR STRUCTURE/BUILDING. IMPROPER PROCEDURES OR TECHNIQUES COULD RESULT IN SERIOUS INJURY OR DEATH. IN ADDITION TO THE DANGER TO PERSONNEL, IMPROPER INSTALLATION COULD RESULT IN EXTENSIVE DAMAGE TO THE BUILDING/STRUCTURE. NEVER ATTEMPT INSTALLATION IF YOU ARE NOT QUALIFIED OR DO NOT HAVE THE PROPER TOOLS AND/OR EQUIPMENT.

MODULAR BUILDINGS/STRUCTURES CAN WEIGH SEVERAL TONS. IT IS VERY IMPORTANT THAT ALL PERSONNEL, ON THE JOB SITE, BE QUALIFIED AND PROPERLY/ADEQUATELY TRAINED. A CERTIFIED BUILDING CONTRACTOR IS REQUIRED TO BE RESPONSIBLE FOR ALL SAFETY INITIATIVES, PROGRAMS, POLICIES, OR PROCEDURES THAT MAY BE MANDATED BY OSHA AND/OR OTHER LOCAL, STATE, AND/OR FEDERAL CODES AND/OR REQUIREMENTS. THE CONTRACTOR SHOULD INSURE/REQUIRE THAT SAFE AND PROPER TECHNIQUES ARE USED.

Diagram illustrating the Off-Frame Foundation Loads for a structure. The diagram shows a rectangular foundation layout with various walls, openings, and load specifications.

Top Wall (Exterior Wall):

- 680 PLF GRAVITY LOAD
- 180 PLF UPLIFT LOAD

Right Wall (Exterior Wall):

- 680 PLF GRAVITY LOAD
- 180 PLF UPLIFT LOAD

Internal Walls and Openings:



- Mating Line Wall (Left):** 1230 PLF GRAVITY LOAD, 280 PLF UPLIFT LOAD (284")
- Mating Line Wall (Center):** 1230 PLF GRAVITY LOAD, 280 PLF UPLIFT LOAD (32")
- Mating Line Wall (Right):** 1230 PLF GRAVITY LOAD, 280 PLF UPLIFT LOAD (94 1/2")
- Mating Line Opening (Left):** 780 PLF GRAVITY LOAD (192 1/2")
- Mating Line Opening (Center):** 780 PLF GRAVITY LOAD (43 1/2")
- Mating Line Opening (Right):** 780 PLF GRAVITY LOAD (31 1/2")

Bottom Wall (Exterior Wall):

- 680 PLF GRAVITY LOAD
- 180 PLF UPLIFT LOAD


Dimensions and Markers:

- Horizontal dimensions: 284", 32", 94 1/2", 192 1/2", 43 1/2", 31 1/2"
- Vertical dimensions: 10 1/2"
- Markers: 1, 2


 MOD-818
 150 MPH - 100 (10000)
 Exposure C
 MPH = 10 FEET
~~DE-TRUNK~~
 JACOBSEN HOMES
 MIMP-5601W-M81

 MIMP-3001W-1000
 © 8/18/2013

7/16" SHEATHING (OSB) -- ONE SIDE ONLY
FASTEN OSB EDGES W/ MIN. - 16 GA. STAPLE @ 4 IN. O.C. MAX.
FLOOR/WALL/CEILING = 0.131" x 3 1/2" NAIL @ 5.33" O.C. MAX.
MIN. (1) 1.25" x 0.035" STRAP (EA. LABELED LOCATION)
MIN. 3 FLOOR JOISTS BELOW WALL

*** ALL I-BEAM (CHASSIS) LOCATIONS SHALL HAVE PIERS ADEQUATE TO SUPPORT ALL INDUCED LOADS. FOUNDATION AND TIE-DOWN SYSTEMS ARE BY OTHERS (NOT JACOBSEN). FOUNDATION PER FBC AND STD. ENGINEERING PRACTICES.

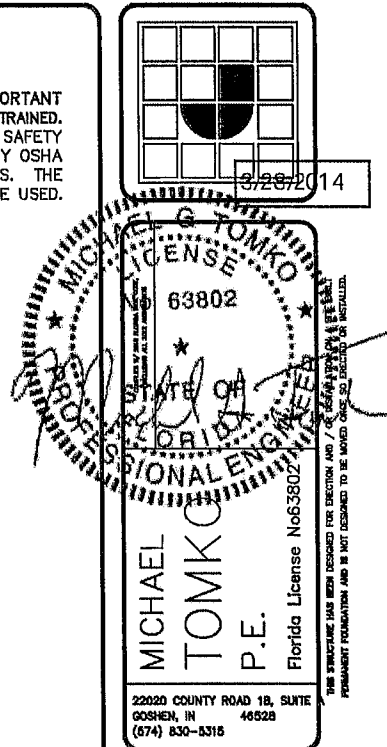
SHEARWALL DESIGN SPEC'S:		UNIFORM LOADS	
 UNIFORM CRUSHING STRESSING: 1. CRUSHING FORCE IS AT EACH END OF ALL SHEAR- WALL MEMBERS.		A = 30.3 PSF B = 0 PSF C = 30.3 PSF D = 0 PSF	
1	DESIGN SHEAR VALUE: 170 PLF OVERTURNING FORCE: 1534 LBS	5	DESIGN SHEAR VALUE: 0 PLF OVERTURNING FORCE: 0 LB
2	DESIGN SHEAR VALUE: 178 PLF OVERTURNING FORCE: 1607 LBS	6	DESIGN SHEAR VALUE: 0 PLF OVERTURNING FORCE: 0 LB
3	DESIGN SHEAR VALUE: 0 PLF OVERTURNING FORCE: 0 LBS	7	DESIGN SHEAR VALUE: 0 PLF OVERTURNING FORCE: 0 LB
4	DESIGN SHEAR VALUE: 0 PLF OVERTURNING FORCE: 0 LBS	8	DESIGN SHEAR VALUE: 0 PLF OVERTURNING FORCE: 0 LB

[illegible]

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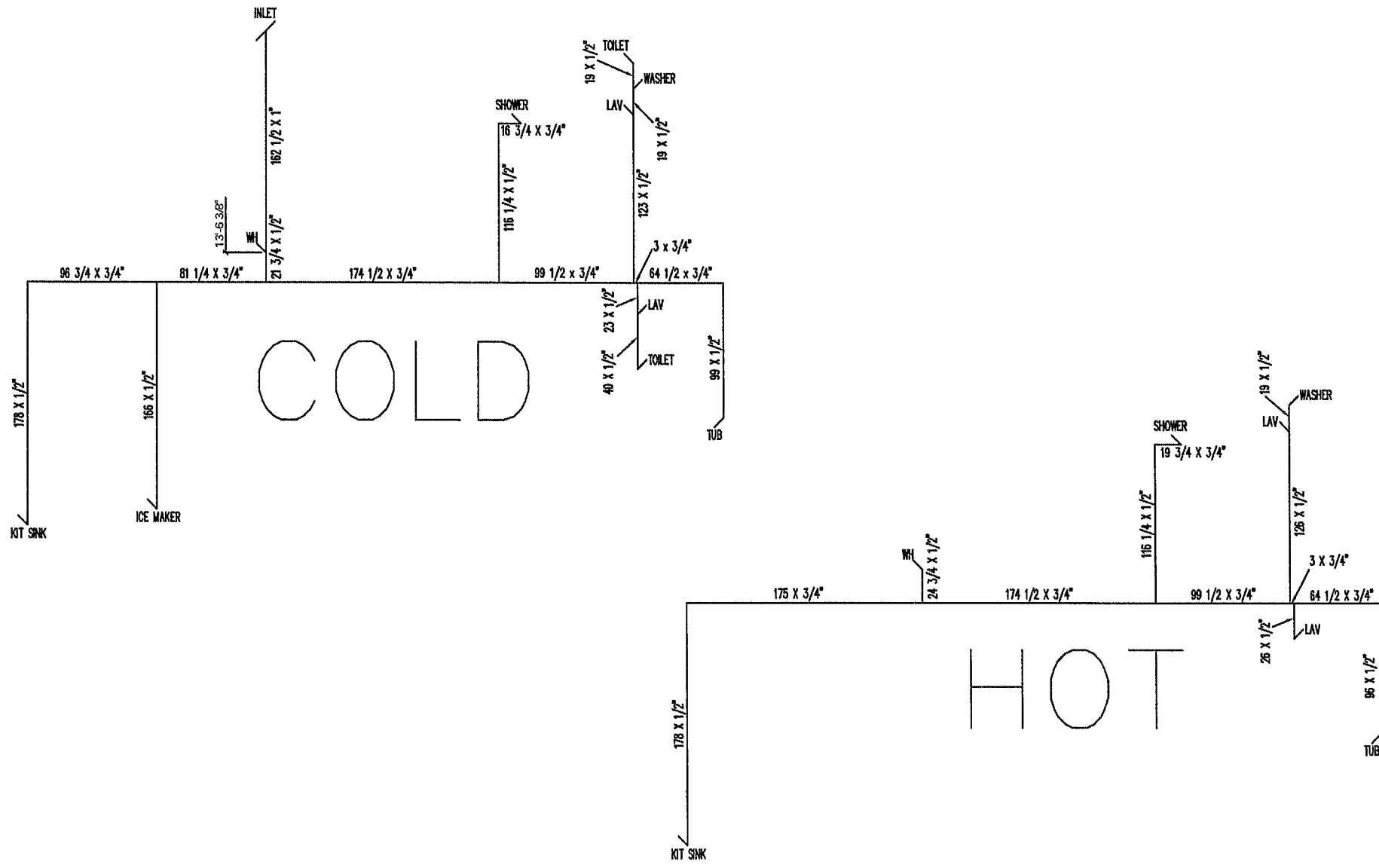
MIMP-5601W-M818
150 MPH - Vult (Ultimate)

FOUNDATION LOAD DETAILS

Revisions		
△	By	Date
1	G. YOUNG	8/1/2013
2		
3		
4		
5		

Drawn:	NTA-CMS
Checked:	NTA
Date:	8/19/2013
Scale:	NTS

Sheet: 13 OF 15
WEC: C
DWs: 150 MPH
Model: MOD-B18



- 1) WATER SUPPLY PIPING SHALL BE TYPE "L" COPPER , CPVC,CROSS LINKED POLYETHYLENE OR OTHER MATERIALS APPROVED FOR USAGE PER STATE AND LOCAL CODE.
- 2) INTERCONNECTION OF SUPPLY PIPING BELOW FLOOR BETWEEN UNITS TO BE COMPLETED ON SITE BY OTHERS TO STATE AND LOCAL CODES
- 3) EXTERIOR FAUCETS HOSE BIBS OR WALL HYDRANTS (WATER SUPPLY OUTLETS WITH HOSE THREADS) SHALL BE EQUIPPED WITH A VACUUM BREAKER , INSTALLED PER MANUFACTURES INSRUCTIONS.EXTERIOR FAUCETS ARE INSTALLED BY OTHERS ON SITE.
- 4) SHOWERS, BATH TUBS AND TUB/SHOWRES COMBINATIONS SHALL BE EQUIPED WITH CONTROL VALES OF THE PRESSURE BALANCE THERMOSTATIC MIXING OR COMINATION PRESSURE BALANCE / THERMOSTATIC MIXING WITH HIGH LIMIT STOPS THAT SHALL BE SET TO LIMIT WATER TEMPERATURE TO A MAXIMUM OF 120 DEGRESS.
- 5)MAIN SHUT OFF VALVE TO BE A FULL WAY VALVE PROVIDED AND INSTALLED BY OTHERS AT SITE.
- 6)WATER HEATERS SHALL CONFORM O THE ENERGY REQUIREMENTS OF APPLICAL CODE
- 7)WATER HEATERS SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND SEPARATE TEMPERATURE RELIEF VALVE OR COMBANATION
- 8)INSTALL WATER HAMMER ARRESTORS AT ALL LOCATIONS WHERE QUICK CLOSING VALES ARE UTILIZED

HITCH
MOD-818
150 MPH - 150 MPH (Ultimate)
Exposure C
WIND = 150 FEET
DE-SNOW
JACOBSEN HOMES
MIMP-5601W-M818
MIMP-5601W-M818
© 4/9/2013

3/28/2014
MICHAEL G. TOMKO
LICENSE
No 63802
P.E.
Florida License No63802
22020 COUNTY ROAD 18, SUITE 40528
GOOSHEN, IN 46528
(574) 830-5315
THIS SIGNATURE HAS BEEN EXEMPTED FOR EXECUTION AND / OR VERIFICATION ON A SITE BASIS. PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONLY TO BE RE-DESIGNED.

MIMP-5601W-M818
150 MPH - Vult (Ultimate)
POTABLE WATER SUPPLY SYSTEM

Revisions		
By	Date	
Q.YOUNG	8/1/2013	

Drawn:	NTA-CMS
Checked:	NTA
Date:	8/19/2013
Scale:	NTS

Sheet:
15 OF 15
WEC: Exposure C
DWs: 150 MPH
Model: MOD-818

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:

3-28-14
IWC
WERNER, CARTER & ASSOCIATES

CONSTRUCTION TYPE: V-2	SEISMO LOAD: 0
OCCUPANCY: R-3	FIRE RATING OF EXTERIOR WALL: 0
WIND VELOCITY: 150 MPH	TOTAL NUMBER OF STORIES: 1
WIND EXPOSURE: S	WIND VELOCITY CATEGORY: NO
MAX. MEAN ROOF HEIGHT: 15 FEET	MANUFACTURER: JACOBSEN HOMES
ALLOWABLE FLOOR LOAD: 40 PSF	PLAN NO: MIMP-5601W-M818
ALLOWABLE ROOF LOAD: 20 PSF	

COMPLIES W/ 2010 FLORIDA RES. CODE, INCLUDING ALL 2012 AMENDMENTS



STATE OF FLORIDA

DEPARTMENT OF COMMUNITY AFFAIRS

"Dedicated to making Florida a better place to call home"

CHARLIE CRIST
Governor

THOMAS G. PERHAM
Secretary

BUILDING CODES & STANDARDS

MEMORANDUM

From: Robert Lorenzo, Manufactured (Modular) Buildings Program

To: Building Officials, Manufacturers & Third Party Agencies

Subject: Raised Seats on Plans for Manufactured (Modular) Buildings

Date: September 15, 2008

Section 553.80(1)(d) F.S., (also chapter 106.3, Exemption #1, FBC) specifically exempts state approved manufactured (modular) buildings bearing the DCA insignia, from further plan review by local code enforcing agencies. Rule 9B-1, FAC and the Florida Building Code (FBC) do not require original signed and sealed plans for manufactured (modular) buildings to be submitted to local jurisdictions to obtain a building permit. The state (DCA) insignia issued by this Department attests that the plans have been reviewed and the buildings inspected by a state approved Third Party Agency and found to be compliant with the FBC.

However, any code requirements not completed at the factory are considered site related and are subject to local plan review and inspection in accordance with the FBC and local requirements. Signing and sealing of these plans should follow local procedures. All site-related installation requirements (e.g. marriage walls, hinged roofs, foundation, electrical hook-up, plumbing, etc.) are specifically and entirely reserved to the local authority having jurisdiction (local building department).

The State of Florida Manufactured (Modular) Buildings Program requires its approved Third Party Agencies to maintain a hardcopy set of signed and sealed plans that have been reviewed and approved by a Florida licensed Modular Plans Reviewer. Inspection reports conducted at the manufacturing facility by Florida licensed design professional or Modular Inspectors are also required to be on file. Local jurisdictions may require copies of the approved plans with the permit application or may rely on the plans on file at www.floridabuilding.org. For additional information, please contact Robert Lorenzo at 850-410-1566 or E-mail: robert.lorenzo@dca.state.fl.us

Robert Lorenzo

Manufactured Buildings Program

2555 SHUMARD OAK BOULEVARD • TALLAHASSEE, FL 32309-2100
850-410-1566 (p) • 850-921-7781 (f) • Website: www.dca.state.fl.us

• COMMUNITY PLANNING, 510 5th St., Tallahassee, FL 32309
• HOUSING AND COMMUNITY DEVELOPMENT, 62400-7000 • (904) 631-1566

ULTIMATE Design Wind Speed: 150 mph
Wind Exposure Category: C
Mean Roof Height: 15 ft.

FLORIDA PRODUCT APPROVAL SPECIFICATION SHEET:

C&C Loads Based On Allowable Stress Design as converted from the Ultimate or Strength Design

As required by Florida Statute 553.842 and the Florida Administrative Code 61-G20-3 (formerly 9B-72),
the information and approval numbers on the building components are listed below:

Category/ Subcategory		Manufacturer	Product Description	FL Product Approval Number(s)	Pass / Fail
1. Exterior Doors					
A	Swinging	Dunbarton Corp.	In-swing Exterior Door - Solid	FL 15362.1	PASS - INT/END ZONES
	Swinging	Dunbarton Corp.	In-swing Exterior Door - Oval	FL 15362.1	PASS - INT/END ZONES
	Swinging	Dunbarton Corp.	In-swing Exterior Door - 9 Lite	FL 15362.1	PASS - INT/END ZONES
	Swinging	Dunbarton Corp.	2 Panel In-swing or Outswing - IMPACT	FL 15341.3	PASS - INT/END ZONES
	Swinging	Dunbarton Corp.	6 Panel In-swing or Outswing - IMPACT	FL 15341.3	PASS - INT/END ZONES
	Swinging	Jeld-Wen	Single or Double - Outswing - IMPACT	FL 14569.1-R2	PASS - INT/END ZONES
	Sliding	Kinro, Inc.	Sliding Glass Door - Exterior	FL 2865 - R6	PASS - INT/END ZONES
C	French (Single)	Custom Windows, Inc.	8700-SD Single French - IMPACT	FL 14850.1-R1	PASS - INT/END ZONES
	French (Double)	Custom Windows, Inc.	8750-FD Double French - IMPACT	FL 14850.1-R1	PASS - INT/END ZONES
2. Windows					
A	Single Hung	Custom Windows, Inc.	8100 - SH IMPACT Resistant - HD - Low E	FL5823.4 - R5	PASS - INT/END ZONES
	Single Hung	Custom Windows, Inc.	8100 - SH IMPACT Resistant - Low E	FL5823.2 - R5	PASS - INT/END ZONES
	Single Hung	Kinro, Inc.	9750 Series - Insulated - Low E	FL 993.2 - R10	PASS - INT/END ZONES
B	Fixed	Hy-Lite Products, Inc.	Acrylic Block Window - 6" BLOCK	FL 185.1-R5	PASS - INT/END ZONES
	Fixed	Hy-Lite Products, Inc.	Acrylic Block Window - 8" BLOCK	FL 185.2-R5	PASS - INT/END ZONES

Category/ Subcategory		Manufacturer	Product Description	FL Product Approval Number(s)	Pass / Fail	
5. Structural Comp.	D Metal Roofing	Advanced Aluminum	Advantage Panel - 26 Ga.	FL 1763.1 - R1	PASS - INT/END ZONES	
	E Tubular Skylight	Sun-Tek	Tube (self flashing) 10", 14" or 21"	FL13488.10 - R2	PASS - INT/END ZONES	
	A	Wood Connectors	Tie-down Engineering	Coil Strap	Local Approval	PASS - INT/END ZONES
		Wood Connectors	Oliver Technologies	Coil Strap	Constellation Tech.	PASS - INT/END ZONES
		Wood Connectors	Master Craft Eng.	Metal Strap	Report - A131394	PASS - INT/END ZONES
		Wood Connectors	Master Craft Eng.	Metal Strap	FL 9159.4 - R3	PASS - INT/END ZONES
		Wood Connectors	Master Craft Eng.	Metal Strap	FL 9159.4 - R3	PASS - INT/END ZONES
B Truss Plate	MiTek	Truss connector plates	FL 2197 - R4	PASS - INT/END ZONES		
C Engineered Lumber	GP	GP-Lam	FL 2023.1 - R4	PASS - INT/END ZONES		

APPLICATION ENGINEERING
FOR HEATING AND COOLING

JACOBSEN HOMES
901 4th St North
Safety Harbor, FL 34695

Manufacturer's Model #: MIMP-5601W-M818
HVAC System Type: OVERHEAD GRAD FLEX FOR EXT PACKAGE UNIT



Prepared By LaSalle Air Systems 3/20/2014 (Method & Output © 2014)
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Calculations on this page are based on design parameters set forth in ASHRAE and ACCA Manuals J and D. System registers are located for best distribution based on Manual T. Design calculations are based on ACTUAL orientation. Room loads may vary based on actual conditions.

ENTIRE HOUSE VALUES - DESIGN ZONE: FL, Region 2A (2010)

COOLING LOAD: 25,376 Btuh based on outside temp of 96 ° F (35 C) with inside temp reduced to 75 ° F (23 C)
HEATING LOAD: 34,810 Btuh based on outside temp of 17 ° F (-9 C) with inside temp raised to 72 ° F (22 C)
Crawlspace is not heated by the primary air handler.

CONSTRUCTION DETAILS & U / SHGC VALUES: (22-19-30) GREEN ORIENTATION

Total Cond. Floor Area:	1840.00 s.f.	TRUE Outside Perimeter:	181.33 ft
Level 1 Ceiling:	90 to 108 in.	Level 2 Ceiling:	0 to 0 in.
Level 3 Ceiling:	0 to 0 in.		
NET Ext. Wall Area:	1165.64 s.f.	ROOF:	0.035
TOTAL Low-E window	129.58 s.f.	WALLS:	0.059
TOTAL S.G.D.	40.00 s.f.	FLOOR:	0.044
TOTAL Glass Block	12.25 s.f.	Low-E wl	0.350 / 0.28
TOTAL Skylite	0.00 s.f.	S.G.D.	0.480 / 0.39
TOTAL Door1 Area:	58.53 s.f.	Glass Blc	0.630 / 0.51
TOTAL Door2 Area:	0.00 s.f.	Skylite	0.790 / 0.64
All Glass % of Floor:	9.86 %	Door 1:	0.460
All Glass % of Wall:	12.93 %	Door 2:	0.670
LATENT GAIN:	2549 Btuh		
Mech. Ventilation :	0 cfm	Altitude:	40 ft
		FLOOR DUCTS (U):	0
		ATTIC DUCTS (U):	0.125
		EXT. DUCTS (U):	0.125
		ATTIC DUCT AREA:	164.1 s.f exposed
		EXT. DUCT AREA:	216.25 s.f exposed
		PEOPLE:	3
		FIREPLACES:	1
		DUCT GAIN:	@ 9.1 % 4527 Btuh @ 94 TD/ 49 TD
		DUCT LOSS:	6777 Btuh @ 110 TD
		SUMMER INFILTR:	88.4 cfm
		WINTER INFILTR:	182.5 cfm @ Semi-Tight

ROOM BY ROOM VALUES:

Heat Exting Furnace: 111 deg A/C Exting : 48 deg				0.15 Max pressure at A/H							
Actual heating and cooling required in each room and flow sat to maximum of either heating or cooling				Cooling Air		Heating Air					
				Values for		Values for					
				2.5 ton unit		40 12.5 KW					
						90 % Gas/Oil Elec					
						Maximum A/C capacity					
						Calibrated Blower Test					
ROOM NAME		HEATING LOSS (Btu)	COOLING GAIN (Btu)	CFM DIST	CFM	Btuh	CFM	Btuh	E	Btuh	Btuh (alt adj)
Living Room	c	5,183	4,093	136	170	4,858	162	5,883		6,969	7,429
Dining	c	2,608	2,276	85	89	2,555	85	3,094		3,666	3,908
Kitchen	h	4,387	2,595	102	129	3,697	123	4,477		5,304	5,634
Family Room	c	8,148	4,810	161	167	4,775	159	5,783		6,851	7,303
WIC	c	584	300	27	-	-	-	-		-	-
Bedroom #1	c	3,785	3,012	99	113	3,218	107	3,897		4,616	4,925
Bath #2	c	2,097	1,585	61	57	1,640	55	1,986		2,353	2,510
Bonus Room	h	5,395	3,681	126	141	4,038	135	4,890		5,794	6,178
Bedroom #2	c	3,338	2,258	83	122	3,499	117	4,237		5,020	5,333
Bath #1	h	1,286	756	30	49	1,404	47	1,701		2,015	2,150
TOTALS		34,810	25,376	910	1,038	29,684	991	35,947		42,587	45,370

APPLICATION ENGINEERING
EQUIPMENT SELECTION AND SIZING WORKSHEET (MANUAL S)

Manufacturer: JACOBSEN HOMES
901 4th St North
Safety Harbor, FL 34695

Model #: MIMP-6601W-M818
HVAC System Type: OVERHEAD GRAD FLEX FOR EXT PACKAGE UNIT
Design Zone: FL, Region 2A (2010)

Prepared by LaSalle Air Systems 3/20/2014 All rights reserved. This information proprietary to LaSalle Bristol Co. and clients.

RESULTS FROM MANUAL-J CALCULATIONS: Actual Orientation

HEATING LOAD:	34,810 Btuh at 17 °	REQ'D BLOWER CFM:	1,038 cfm at altitude of 40 ft
SENSIBLE CLG LOAD:	22,827 Btuh at 96 °	Entering Air DRY Bulb:	75.0 ° Mech. Ventilation : 0
LATENT CLG LOAD:	2,649 Btuh at 96 °	Entering Air WET Bulb:	59.0 ° Entering Air RH: 45 %
GRAINS DIFFERENCE:	40	Outside wet bulb:	63.0 ° outside RH: 68.3 %

FILL IN THE DATA FROM THE H.V.A.C. EQUIPMENT DATA CHARTS: (Do not use ARI Ratings!)

Air handler model #: Condenser model #:

☐ Blower Data Select blower speed in COOLING mode: Blower CFM is from 851 to 1152 for Total (External) Static Pressure of 0.6 to 0.8

☐ Electric, Gas or Oil Furnace Select blower speed in HEATING mode: Output Btuh is from 36550 to 49734
Blower CFM is from 609 to 720 for Temp. rise of 55-65
Blower CFM is from 720 to 880 for Temp. rise of 45-55
Blower CFM is from 880 to 1132 for Temp. rise of 35-45

☐ Cooling Equipment S/T Ratio = 0.89 Leaving Temp = 52.9 ° TD = 22.1 °
At 96F outside, Total A/C output from 25884 btuh to 29183 btuh is GOOD.
At 96F outside, Total A/C output from 29183 btuh to 30452 btuh is MARGINAL.
Sensible Capacity is from 21552 btuh to 24101 btuh
Latent Capacity is from 2498 btuh to 3823 btuh

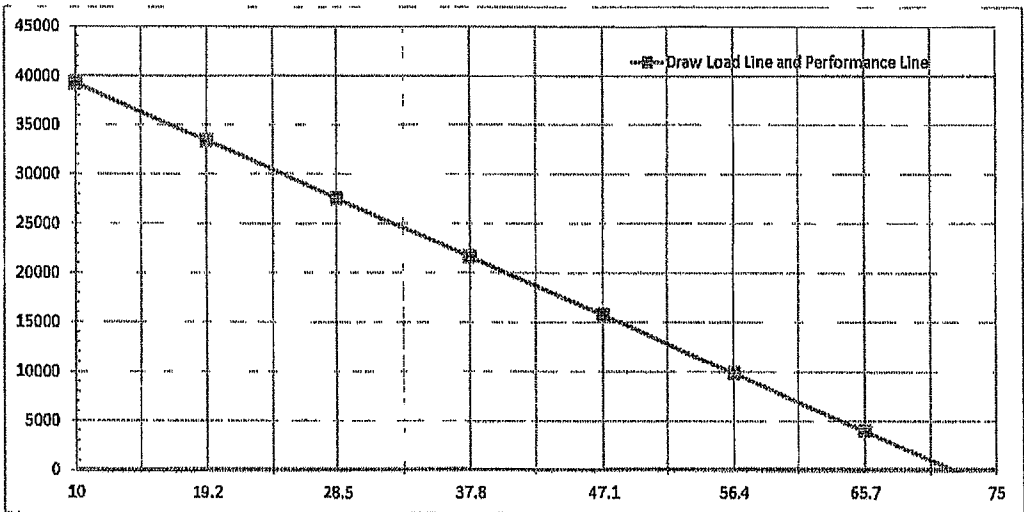
Mechanical Ventilation is 0 % of blower cfm. Dry bulb increases by: 0 ° Wet bulb increases by: 0 °

☐ Heat Pump with Supplemental Heating Coils
Data from performance charts

btuh at F outside
btuh at F outside

Data from load calculation

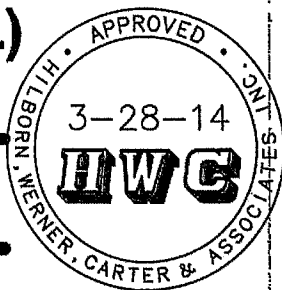
0 btuh at 72 F outside
34,810 btuh at 17 F outside



At winter design temperature of 17 F outside, the distance between the lines is btuh
which is the Supplemental Heat divided by 3400 = KW.

ENERGY PERFORMANCE LEVEL (EPL)
DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 69
The lower the EnergyPerformance Index, the more efficient the home.



, Lake City, FL, -

Table with 3 main columns: Item Number, Description, and Value/Unit. It contains 15 items related to building energy performance, including wall types, ceiling types, ducts, cooling systems, heating systems, hot water systems, and floor types.

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____
Address of New Home: _____ City/FL Zip: _____



*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Michael Tomko

Digitally signed by Michael Tomko
DN: CN = Michael Tomko, C = US
O = DTI
Date: 2014.03.28 08:36:46 -0400

PROJECT												
Title:	M818	Bedrooms:	2	Address Type:	Street Address							
Building Type:	User	Conditioned Area:	1840	Lot #								
Owner:		Total Stories:	1	Block/SubDivision:								
# of Units:	1	Worst Case:	No	PlatBook:								
Builder Name:		Rotate Angle:	0	Street:								
Permit Office:		Cross Ventilation:		County:	Columbia							
Jurisdiction:		Whole House Fan:		City, State, Zip:	Lake City ,							
Family Type:	Single-family				FL ,							
New/Existing:	New (From Plans)											
Comment:												
CLIMATE												
✓	Design Location	TMY Site	IECC Zone	Design Temp 87.5 %	2.5 %	Int Design Temp Winter	Summer	Heating Degree Days	Design Moisture	Daily Temp Range		
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	82	70	75	1305.5	51	Medium		
BLOCKS												
	Number	Name	Area	Volume								
	1	Block1	1840	14720								
SPACES												
	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated	
	1	1st Floor	1840	14720	Yes	3	2	1	Yes	Yes	Yes	
FLOORS												
✓	#	Floor Type	Space	Exposed Per/Wall Ins.	R-Value	Area	Floor Joist R-Value	Tile	Wood	Carpet		
_____	1	Crawlspace	1st Floor	7.25 ft	0	1840 ft²	22	0	0	1		
ROOF												
✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tasted	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Composition shingles	1895 ft²	230 ft²	Medium	0.98	No	0.9	No	0	14
ATTIC												
✓	#	Type	Ventilation	Vent Ratio (1 In)	Area	RBS	IRCC					
_____	1	Full attic	Vented	300	1840 ft²	N	N					
CEILING												
✓	#	Ceiling Type	Space	R-Value	Area	Framing Frac	Truss Type					
_____	1	Cathedral/Single Assembly (Vented)	1st Floor	30	1840 ft²	0.11	Wood					

HOT WATER SYSTEM													
<input checked="" type="checkbox"/>	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation				
	1	Electric	None	1st Floor	0.92	40 gal	60 gal	120 deg	None				
SOLAR HOT WATER SYSTEM													
<input checked="" type="checkbox"/>	FSEC Cert #	Company Name		System Model #		Collector Model #		Collector Area	Storage Volume	FEF			
	None	None						ft²					
DUCTS													
<input checked="" type="checkbox"/>	#	Supply		Return		Leakage Type	Air Handler CFM 25	Percent Leakage QN	RLF		HVAC #		
	1	Attic	6	80 ft²	Attic	30 ft²	Default Leakage	1st Floor (Default) (Default) %			1	1	
TEMPERATURES													
Programmable Thermostat: Y						Ceiling Fans:							
Cooling Heating Venting	<input checked="" type="checkbox"/> Jan Jan	<input checked="" type="checkbox"/> Feb Feb	<input checked="" type="checkbox"/> Mar Mar	<input checked="" type="checkbox"/> Apr Apr	<input checked="" type="checkbox"/> May May	<input checked="" type="checkbox"/> Jun Jun	<input checked="" type="checkbox"/> Jul Jul	<input checked="" type="checkbox"/> Aug Aug	<input checked="" type="checkbox"/> Sep Sep	<input checked="" type="checkbox"/> Oct Oct	<input checked="" type="checkbox"/> Nov Nov	<input checked="" type="checkbox"/> Dec Dec	
Thermostat Schedule: HERS 2006 Reference													
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68
Heating (WEH)	AM PM	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68	68 68

DESIGNED FOR 20
PSF ROOF LIVE LOAD
AND 1000 PSF SOIL
BEARING CAPACITY

F-1

SHEET 1 OF 1