HWC

ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

September 15, 2021

Jacobsen Homes
600 Packard Street
Safety Harbor, FL 34695

RE: Manufacturer: Jacobsen Homes
S/N & Occupancy: MICP-3833; SFD
HWC Plan#: 2540-0802(MICP-3833)

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 2020 Florida Codes with 2021 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 33756
(727) 584-8151
FAX: (727) 586-3343 Modular / (727) 585-2392 Dapia / (727) 587-0447 Inspection

ATTENTION LOCAL BUILDING DEPART.:

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE MANUF., HAVE NOT BEEN INSPECTED, & ARE NOT ATTESTED TO OR COVERED BY THE STATE OF FLORIDA DEPART. OF BUSINESS & PROFESS. REGULATION'S INSIGNIA. THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS, WORK, OR MATERIALS THAT MAY BE REQUIRED TO COMPLETE THE INSTALLATION. ALL SITE-INSTALLED ITEMS ARE SUBJECT TO APPROVAL BY THE LAHJ. THE CODE COMPLIANCE FOR ANY SITE-INSTALLED ITEM(S) SHALL BE DETERMINED BY THE LAHJ AND ARE THE EXCLUSIVE AND SOLE RESPONSIBILITY OF THE LICENSED CONTRACTOR, NOT JACOBSEN HOMES.

SITE INSTALLED ITEMS:

THIS LIST CONTAINS EXAMPLES AND SHALL NOT BE CONSIDERED ALL INCLUSIVE:

1. REFER TO JACOBSEN HOMES' MODULAR INSTALLATION MANUAL.
2. ALL SITE GRADING/FILL AND LOT PREP. (INCLUDING REQUIRED DRAINAGE). SOIL REQ'D TO SLOPE AWAY FROM BUILDING. SEE SITE PREPARATION NOTES.
3. THE COMPLETE FOUNDATION, TIE-DOWN, ANCHORING SYSTEMS, AND REQ'D UNDER FLOOR OR CRAWL SPACE VENTING.
4. TERMITE TREATMENT AND REQUIRED VAPOR BARRIER BELOW STRUCTURE.
5. BOTTOM OF FLOOR INSULATION AND BOTTOM BOARD MATERIAL.
6. ALL HOLES, TEARS, OR OPENINGS IN BOTTOM BOARD MATERIAL SEALED.
7. RAMPS, STAIRS, & GENERAL ACCESS (INCL. ALL ACCESSIBILITY REQ'MENTS).
8. BUILDING DRAINS, CLEAN-OUTS, AND HOOKUP TO THE PLUMBING SYSTEM(S).
9. ANY PORTABLE FIRE EXTINGUISHER(S) AND/OR FIRE SUPPRESSION SYSTEM(S).
10. ELECTRICAL SERVICE (INCL. FEEDERS) AND ALL CROSSOVER CONNECTIONS ON MULTI-SECTION BUILDINGS.
11. ALL UNFINISHED DRYWALL - COMPLETE PANEL FASTENING, TAPE, & TEXTURE. 3/8" NAILS = 6" O.C. MAX.; 3/8" SCREWS = 12" O.C. MAX.; - UNFINISHED ONLY.
12. STRUCTURAL & AESTHETIC INTERCONNECTIONS BETWEEN MODULES/SECTIONS.
13. GABLE END FRAMING WITH HINGED ROOF SYSTEMS.
14. EXTERIOR SIDING (INCLUDING BONDING OF METAL SIDING TO GROUND).
15. EXTERIOR WALL FINISH (ENDWALLS AND PORCH AREAS).
16. EXTERIOR FASCIA/SOFFIT FINISH (ENDWALLS AND PORCH AREAS).
17. ROOF COVERING AT HINGE AREAS, DRY-IN, AND COMPLETION (RIDGE, ETC.).
18. COMPLETE ROOF (INCLUDING BONDING OF METAL ROOF TO GROUND).
19. FIREPLACE CHIMNEY STACK AND COMPLETION OF VENTILATION SYSTEM.
20. FIREPLACE CHIMNEY FRAMING.
21. WINDOW GUARDS AND/OR FALL PROTECTION.
22. WINDOW PROTECTION AND/OR STORM SHUTTERS.
23. DRYER VENTING: DRYER VENT SHALL EXHAUST OUTSIDE OF THE FOUNDATION.
24. ANY REQUIRED BLOWER DOOR OR DUCT TIGHTNESS TEST.
25. CROSSOVER CONNECTIONS (HVAC) AND REQUIRED FRESH AIR INTAKE.
26. AIR CONDITIONING AND HEATING SYSTEM (REFER TO FLORIDA ENERGY CALCS FOR MINIMUM EFFICIENCY REQUIREMENTS). INSTALLED ON-SITE, BY OTHERS. HVAC UNIT WILL REQUIRE COMPLIANCE WITH THE FLORIDA ENERGY CODE.
27. HVAC DISCONNECT, WIRING, BREAKERS, SERVICE RECEPTACLE, ETC.
28. WHEN NOT INSTALLED IN THE FACTORY, INSULATION AND REQ'D AIR BARRIER.
29. HIGH EFFICACY LAMPS REQUIRED BY FRC R404 ARE ON-SITE, BY OTHERS.
30. "BUILDING ADDRESS" AS REQUIRED BY FBC R319.1 SHALL BE INSTALLED ON-SITE, BY OTHERS.
31. REQ'D GRAB BARS AND ANY OTHER ACCESSIBLE FEATURES THAT ARE REQUIRED.

ITEMS INSTALLED/INSPECTED AT THE FACTORY; LOCAL APPROVAL IS NOT REQUIRED.

GENERAL NOTES:

THIS STRUCTURE MAY BE INSTALLED IN A "FLOOD ZONE" OR COASTAL AREA - REFER TO NOTE 4 BELOW.

1. THIS BUILDING SHALL BE INSTALLED BY A CONTRACTOR CERTIFIED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR).
2. A LICENSED AND CERTIFIED CONTRACTOR (DBPR) SHALL/MUST INSURE STRICT COMPLIANCE TO ALL APPLICABLE CODES AND JACOBSEN HOME SPECIFICATIONS, OBTAIN ALL REQUIRED PERMITS, AND SCHEDULE AND INSURE THAT ANY INSPECTIONS REQ'D ARE PERFORMED BY THE LOCAL AUTHORITY HAVING JURISDICTION (LAHJ). ANY REVIEW, APPROVAL, INSPECTION, RE-INSPECTION AND/OR OTHER FEES OR COSTS SHALL BE BORNE SOLELY AND EXCLUSIVELY BY THE CERTIFIED CONTRACTOR. ANY FAILURE TO CONFORM TO CODES & JACOBSEN SPEC'S MAY AFFECT THE WARRANTY.
3. THE FLORIDA CERTIFIED CONTRACTOR IS RESPONSIBLE & SOLELY ACCOUNTABLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, INSPECTIONS, AND COORDINATION OF ALL WORK PERFORMED ON THE STRUCTURE.
4. NO PORTION OF THE MANUFACTURED BUILDING SHALL BE INSTALLED BELOW THE BASE FLOOD ELEVATION & THE FOUNDATION SHALL BE CAPABLE OF RESISTING ALL LOADS INDUCED WITHOUT TRANSFERRING ANY INDUCED LOAD ONTO/THROUGH THE BUILDING. THE FOUNDATION SHALL BE DESIGNED PER ASCE 24 AND THE FBC 1612.5.

NOTE: THE FLOOR AND/OR ROOF DESIGN OF THIS PLAN IS "LIGHT-FRAME TRUSS-TYPE CONSTRUCTION" AS REFERENCED IN FAC RULE 69A-3.012(6). ANY POSTING OF NOTICE SIGN(S) AS REQUIRED BY FAC RULE 69A-3.012(6) SHALL BE SITE INSTALLED AND IS THE RESPONSIBILITY OF THE BUILDING OWNER.

DRAWING PACKAGE

INDEX

DESCRIPTION	SHEET
1. Cover Sheet / INDEX	
2. Floorplan	A1
3. Floorplan Options	A2
4. Exterior Elevations - 1	A3
5. Exterior Elevations - 2	A4
6. Electrical Load Calcs & Notes	E1
7. Electrical Plan	E2
8. Electrical Plan Opt.- 1	E3
9. HVAC System Layout - 1	M1
10. HVAC System Layout - 2	M2
11. Potable Water System	P1
12. Sanitary Waste (DWV)	P2
13. Structural Design Tables	S1
14. Cross-Section (On-Frame)	S2
15. Foundation Loads (On-Frame)	X1
16.	
17.	
18.	
19.	
20.	
21.	
22.	
23.	
24.	
25.	
26.	

This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

ATTACHMENTS:

1. DBPR Certification Letter
2. Raised Seal Letter - DBPR
3. Florida Energy Calc - ZONE 1
4. Florida Energy Calc - ZONE 2
5. HVAC Calculation - ZONE 1 (Air Handler)
6. HVAC Calculation - ZONE 1 (Package)
7. HVAC Calculation - ZONE 2 (Air Handler)
8. HVAC Calculation - ZONE 2 (Package)
9. Approved / Listed / Sealed Truss Print(s)
10. Local Product Approval Strap YIELD Tests
11.
12.
13.
14.
15.
16.
17.

Michael G Tomko
2021.09.14
12:24:32 -04'00'

THESE DRAWINGS, PLANS, DETAILS, AND SPECIFICATIONS MAY NOT NECESSARILY DESCRIBE EVERY POSSIBLE PIECE OF WORK TO BE PERFORMED. IF ITEMS ARE NOT SHOWN, BUT ARE REQUIRED FOR THE COMPLETION OF ANY ITEM INCLUDED IN THESE DOCUMENTS, THEY SHALL BE CONSIDERED TO BE INCLUDED AS PART OF THESE CONSTRUCTION DOCUMENTS.

PARTIAL SETS OF CONTRACT DOCUMENTS (PLANS, NOTES, DETAILS AND SPEC'S) ARE NOT AVAILABLE FROM JACOBSEN HOMES OR THEIR ENGINEER AND SHALL NOT BE DISTRIBUTED BY THE CONTRACTOR TO SUBCONTRACTORS OR OTHERS. OVERLAPPING DETAILS FOR DIFFERENT TRADES MAY APPEAR ON OTHER SHEETS. TRADES & SUBCONTRACTORS SHALL BE COORDINATED BY THE CONTRACTOR.

STRUCTURAL LOAD DESIGN CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

PRODUCT APPROVAL PRESSURES ARE BASED ON - ALLOW. STRESS DESIGN (Vasd)

DESIGN WIND SPEED: **160 mph - Vult**
123.94 mph - Vasd

MEAN ROOF HEIGHT: 15-feet BUILDING (RISK) CAT.(I-IV): II
WIND EXPOSURE CAT.: D INTERNAL PRESS. COEFF.: GCpi = 0.18 (Enclosed)
ROOF ANGLE (DEG.): 20° ROOF PITCH (RISE): 4.35° / 12°

DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING:	ULT. DESIGN WIND PRES. STRENGTH DESIGN Vult				NOM. DESIGN WIND PRES. ALLOW. STRESS DESIGN Vasd			
Pr = ROOF C&C LOADS	EFFECTIVE WIND AREA =			10 SQ.FT.				
ZONE 1 =	50.47	PSF	-124.95	PSF	30.28	PSF	-74.97	PSF
ZONE 2e =	50.47	PSF	-124.95	PSF	30.28	PSF	-74.97	PSF
ZONE 2r =	50.47	PSF	-182.53	PSF	30.28	PSF	-109.52	PSF
ZONE 2n =	50.47	PSF	-182.53	PSF	30.28	PSF	-109.52	PSF
ZONE 3e =	50.47	PSF	-182.53	PSF	30.28	PSF	-109.52	PSF
ZONE 3r =	50.47	PSF	-216.83	PSF	30.28	PSF	-130.1	PSF
Pw = WALL C&C LOADS Wall / Siding	EFFECTIVE WIND AREA =			10 SQ.FT.				
ZONE 4 =	67.62	PSF	-73.5	PSF	40.57	PSF	-44.1	PSF
ZONE 5 =	67.62	PSF	-99.65	PSF	40.57	PSF	-54.39	PSF
Pw = WALL C&C LOADS Single Window	AREA ≤			20 SQ.FT.				
ZONE 4 =	64.68	PSF	-70.32	PSF	38.81	PSF	-42.19	PSF
ZONE 5 =	64.68	PSF	-84.53	PSF	38.81	PSF	-50.72	PSF
PW = WALL C&C LOADS Door / Dbl. Door / SGD	AREA ≤			50 SQ.FT.				
ZONE 4 =	60.76	PSF	-66.4	PSF	36.46	PSF	-39.84	PSF
ZONE 5 =	60.76	PSF	-76.44	PSF	36.46	PSF	-45.86	PSF

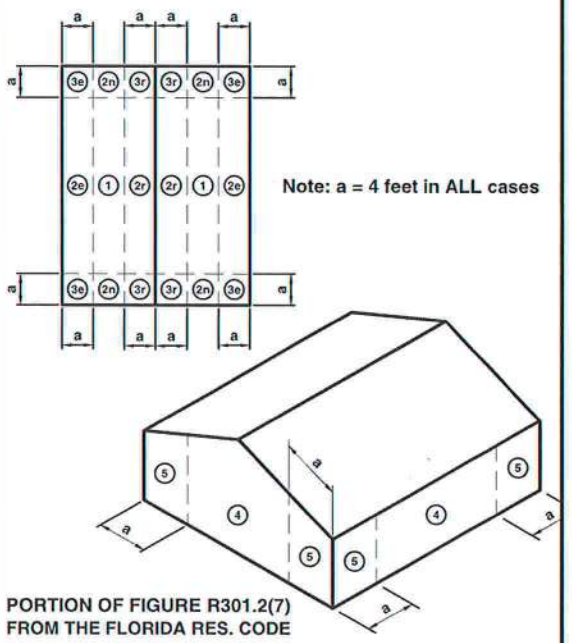
160 mph - Vult

MRH = 15-feet

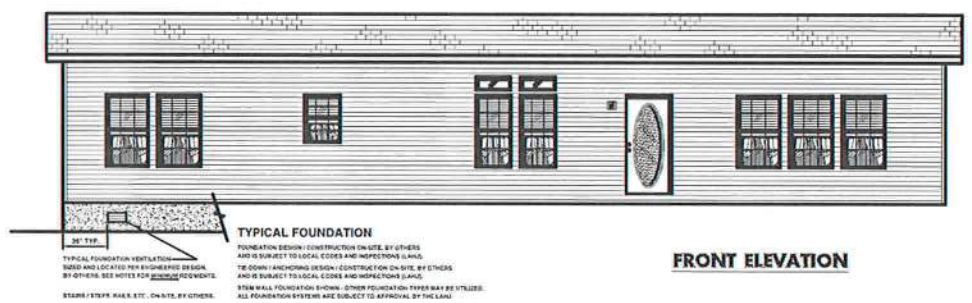
Florida

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

COMPONENT AND CLADDING PRESSURE ZONES



PORTION OF FIGURE R301.2(7) FROM THE FLORIDA RES. CODE (REFER TO FRC FOR FULL DETAILS)



TYPICAL FOUNDATION

FRONT ELEVATION

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:

2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

****NOTICE:**

SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:

MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Cover Sheet / INDEX

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

DRAWN BY: C. YOUNG
DATE: 1/29/2021
SCALE: Not Printed To Scale
SHEET:

RESIDENTIAL (MOD.) PACKAGE

Cover Sheet / INDEX

1839 Sq. Ft.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.: DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

Date 09-15-2021 Plan No. 2540-0802(MICP-3833)
Approved By SCOTT S. FRANDS

Modular Building Plans Examiner
Florida License No. SMP-42

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

APPROVED · HILBORN, WERNER, CARTER & ASSOCIATES, INC. · 09-15-2021 HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2018/FIRE PREVENTION CODE

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833
PLAN NUMBER:	2540-0802 (MICP-3833)

THIS BUILDING IS NOT A HUD BUILDING

M1X
X-PS MPAA-PS

SHEAR WALL ANALYSIS
160 mph - Vult

Wind Speed Vult (Ultimate Design WS): 160 mph - Vult
Maximum SIDE WALL HEIGHT in Inches: 108
Maximum MEAN ROOF HEIGHT (MRH) in feet: 15
Maximum WIND EXPOSURE CATAGORY (WEC): D
Maximum Roof Angle (Degrees): 20°

160 mph - Vult | PERF.

SHEAR WALL NUMBER	DSCR. (X)	Trib. (A)	TOTAL Shear Force (B)	Uplift Force (Racking Load) (C)	Min. PLF Rating (Req'd Design) (D)	PERF. or SEGM. Design (P/S) (E)
1	SSW1		4253.12	1249	139	P
2	SSW2		4253.12	1906	212	P
3	ESW3	30	4912.02	1442	161	P
4	ESW4	30	4912.02	1442	161	P
5	NA	-	-	0	0	-
6	NA	-	-	0	0	-
7	NA	-	-	0	0	-
8	NA	-	-	0	0	-
9	NA	-	-	0	0	-
10	NA	-	-	0	0	-

Wall Construction
Minimum Requirements

SHEAR WALL NUMBER	DSCR. (X)	Min. Rated Sheath. THICK. (F)	Number of Sides Sheath. (G)	Sheath. Fasten. TYPE (H)	Sheath. Fasten. SIZE (I)	Max. Sheath. EDGE Fasten. Spacing (in. O.C.) (J)	Max. Sheath. FIELD Fasten. Spacing (in. O.C.) (K)	Min. Width Framing PANEL SEAMS (inches) (L)
1	SSW1	7/16	1	Staple	16 ga	6	3	1.5
2	SSW2	7/16	1	Staple	16 ga	4	3	1.5
3	ESW3	7/16	1	Staple	16 ga	6	3	1.5
4	ESW4	7/16	1	Staple	16 ga	6	3	1.5
5	NA	-	-	-	-	-	-	-
6	NA	-	-	-	-	-	-	-
7	NA	-	-	-	-	-	-	-
8	NA	-	-	-	-	-	-	-
9	NA	-	-	-	-	-	-	-
10	NA	-	-	-	-	-	-	-

Strapping / Connections
Choose ONLY One (M or N) — Connection Reqiments / Specs.

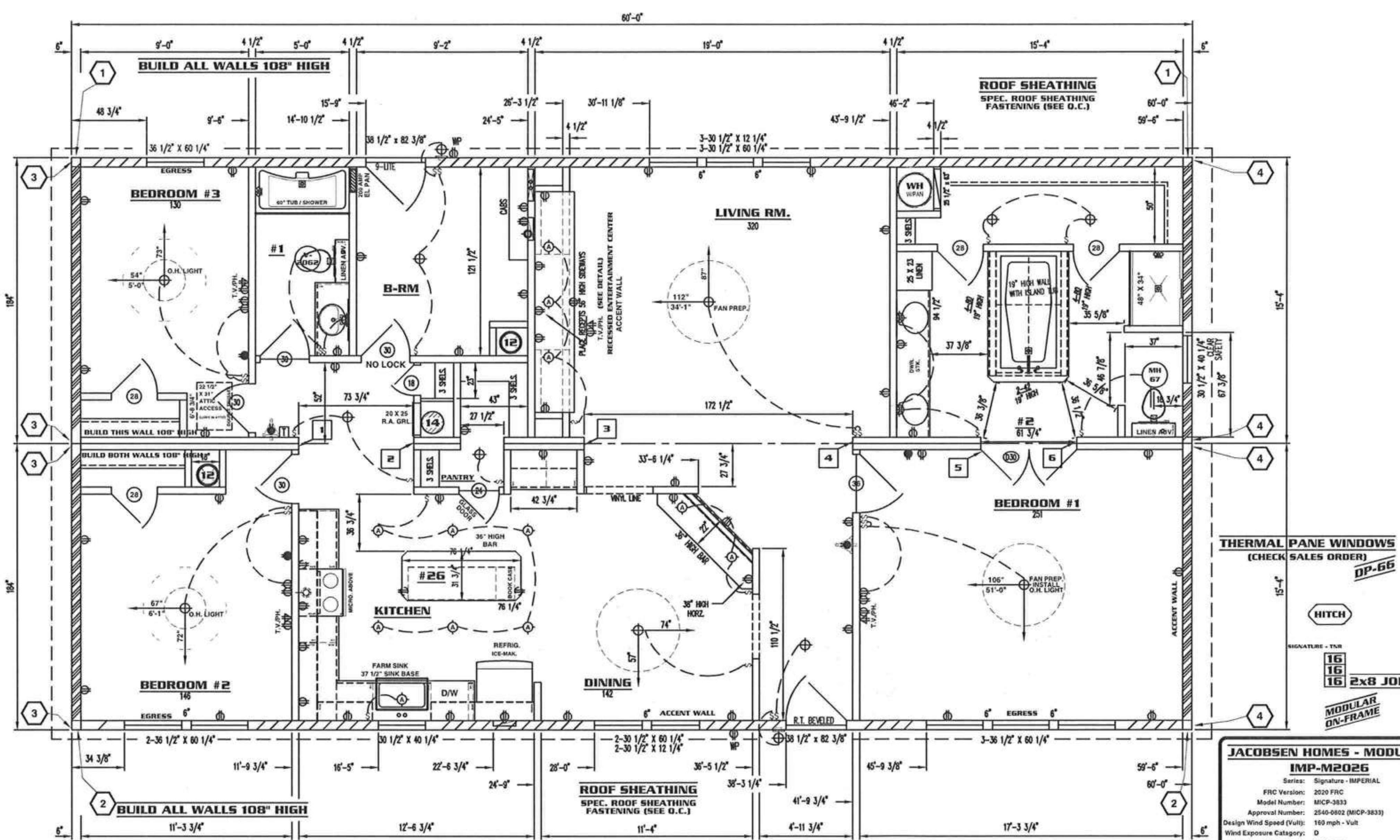
SHEAR WALL NUMBER	DSCR. (X)	Num. of SINGLE 20 Ga. Straps (Each) (M)	Simpson Bracket (N)	Fastener TYPE Floor Wall Ceiling (O)	Fastener DIAMTR. Floor Wall Ceiling (inches) (P)	Fastener LENGTH Floor Wall Ceiling (inches) (Q)	Max. SPACING Floor Wall Ceiling (in. O.C.) (R)
1	SSW1	2	HDU8-SDS2.5	NAIL	0.131	3.5	8
2	SSW2	2	HDU8-SDS2.5	NAIL	0.131	3.5	5.5
3	ESW3	2	HDU8-SDS2.5	NAIL	0.131	3.5	8
4	ESW4	2	HDU8-SDS2.5	NAIL	0.131	3.5	8
5	NA	-	-	-	-	-	-
6	NA	-	-	-	-	-	-
7	NA	-	-	-	-	-	-
8	NA	-	-	-	-	-	-
9	NA	-	-	-	-	-	-
10	NA	-	-	-	-	-	-

SHEAR WALL JOIST ANALYSIS
160 mph - Vult

Wind Speed Vult (Ultimate Design WS): 160 mph - Vult
Maximum SIDE WALL HEIGHT in Inches: 108
Maximum MEAN ROOF HEIGHT (MRH) in feet: 15
Maximum WIND EXPOSURE CATAGORY (WEC): D
Maximum Roof Angle (Degrees): 20°

ON-Frame ONLY

SHEAR WALL NUMBER	DSCR. (X)	SHEAR WALL JOIST QUANITY (S)	SHEAR WALL JOIST SIZE / TYPE (T)
1	SSW1	1	2x8 SP #2
2	SSW2	1	2x8 SP #2
3	ESW3	3	2x8 SP #2
4	ESW4	3	2x8 SP #2
5	NA	-	-
6	NA	-	-
7	NA	-	-
8	NA	-	-
9	NA	-	-
10	NA	-	-



JACOBSEN HOMES - MODULAR
IMP-M2026

Series: Signature - IMPERIAL
FRC Version: 2020 FRC
Model Number: MICP-3833
Approval Number: 2540-0802 (MICP-3833)
Design Wind Speed (Vult): 160 mph - Vult
Wind Exposure Category: D
Mod. / Foundation Type: ON-Frame
Notes: ON-Frame: Chassis is a structural component of the floor system. DO NOT REMOVE

© 1/29/2021 15' - 6" 30' - 8"

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

THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF THE FIRE INSPECTOR, ON-SITE, FOR COMPLIANCE WITH CH 633 FIRE SAFETY CODE.

This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

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ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS

RIDGE BEAM ANALYSIS - 01 thru 09 (160)

COL. NUM.	SPAN LEFT (Feet)	SPAN RIGHT (Feet)	MIN. NOMINAL RB SIZE (in.) LEFT SPAN	MIN. NOMINAL RB SIZE (in.) RIGHT SPAN
1	-	6.08	NA	2x10
2	6.08	-	2x10	NA
3	-	14.33	NA	14
4	14.33	-	14	NA
5	-	5.16	NA	2x8
6	5.16	-	2x8	NA
7	-	-	NA	NA
8	-	-	NA	NA
9	-	-	NA	NA

RIDGE BEAM ANALYSIS - 10 thru 18 (160)

COL. NUM.	SPAN LEFT (Feet)	SPAN RIGHT (Feet)	MIN. NOMINAL RB SIZE (in.) LEFT SPAN	MIN. NOMINAL RB SIZE (in.) RIGHT SPAN
10	-	-	NA	NA
11	-	-	NA	NA
12	-	-	NA	NA
13	-	-	NA	NA
14	-	-	NA	NA
15	-	-	NA	NA
16	-	-	NA	NA
17	-	-	NA	NA
18	-	-	NA	NA

COLUMN ANALYSIS - 01 thru 09 (160)

COL. NUM.	QUANTITY OF STUDS	STUD SIZE TYPE	ADD'L BEARING BLOCK	NUMBER OF 20 ga. STRAPS
1	2	2x4	N	2
2	2	2x4	N	2
3	2	2x4	N	2
4	2	2x4	N	2
5	2	2x4	N	2
6	2	2x4	N	2
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-

COLUMN ANALYSIS - 10 thru 18 (160)

COL. NUM.	QUANTITY OF STUDS	STUD SIZE TYPE	ADD'L BEARING BLOCK	NUMBER OF 20 ga. STRAPS
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION

APPROVED
09-15-2021
HWC
HILBORN, WERNER, CARTER & ASSOCIATES INC.

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

Michael
TOMKO
P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Floorplan

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

#	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	A1

DESIGN WIND SPEED - Vult: 160 mph - Vult
DESIGN WIND SPEED - Vasd: 123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.: D
MAXIMUM MEAN ROOF HEIGHT: 15
BUILDING (RISK) CATEGORY (I - IV): II
ASCE EDITION / VERSION: ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches): 108

PS MPAB M1X

SHEAR WALL ANALYSIS
160 mph - Vult

Wind Speed Vult (Ultimate Design WS):	160 mph - Vult
Maximum SIDE WALL HEIGHT in Inches:	108
Maximum MEAN ROOF HEIGHT (MRH) in feet:	15
Maximum WIND EXPOSURE CATAGORY (WEC):	D
Maximum Roof Angle (Degrees):	20°

160 mph - Vult | **PERF.**

Wall ID		Load / Force Information				
	X	A	B	C	D	E
SHEAR WALL NUMBER	DISCR.	Trib.	TOTAL Shear Force	Uplift Force (Racking Load)	Min. PLF Rating (Req'd Design)	PERF. or SEGM. Design (P / S)
1	SSW1	[redacted]	4252.12	1249	139	P
2	SSW2	[redacted]	4252.12	1906	212	P
3	ESW3	20	4912.02	1442	161	P
4	ESW4	20	4912.02	1442	161	P
5	NA	-	-	0	0	-
6	NA	-	-	0	0	-
7	NA	-	-	0	0	-
8	NA	-	-	0	0	-
9	NA	-	-	0	0	-
10	NA	-	-	0	0	-

Wall Construction

Wall ID		Minimum Requirements						
	X	F	G	H	I	J	K	L
SHEAR WALL NUMBER	DISCR.	Min. Rated Sheath. THICK.	Number of Sides Sheath.	Sheath. Fasten. TYPE	Sheath. Fasten. SIZE	Max. Sheath. EDGE Fasten. Spacing (in. O.C.)	Max. Sheath. FIELD Fasten. Spacing (in. O.C.)	Min. Width Framing PANEL SEAMS (inches)
1	SSW1	7/16	1	Staple	16 ga.	6	3	1.5
2	SSW2	7/16	1	Staple	16 ga.	4	3	1.5
3	ESW3	7/16	1	Staple	16 ga.	6	3	1.5
4	ESW4	7/16	1	Staple	16 ga.	6	3	1.5
5	NA	-	-	-	-	-	-	-
6	NA	-	-	-	-	-	-	-
7	NA	-	-	-	-	-	-	-
8	NA	-	-	-	-	-	-	-
9	NA	-	-	-	-	-	-	-
10	NA	-	-	-	-	-	-	-

Strapping / Connections

Wall ID		Choose ONLY One (M or N)		Connection Req'ments / Specs.			
	X	M	N	O	P	Q	R
SHEAR WALL NUMBER	DISCR.	Num. of SINGLE 20 Ga. Straps (Each)	Simpson Bracket	Fastener TYPE Floor Wall Ceiling	Fastener DIAMTR. Floor Wall Ceiling (inches)	Fastener LENGTH Floor Wall Ceiling (inches)	Max. SPACING Floor Wall Ceiling (in. O.C.)
1	SSW1	2	HDU8-SDS2.5	NAIL	0.131	3.5	8
2	SSW2	2	HDU8-SDS2.5	NAIL	0.131	3.5	5.5
3	ESW3	2	HDU8-SDS2.5	NAIL	0.131	3.5	8
4	ESW4	2	HDU8-SDS2.5	NAIL	0.131	3.5	8
5	NA	-	-	-	-	-	-
6	NA	-	-	-	-	-	-
7	NA	-	-	-	-	-	-
8	NA	-	-	-	-	-	-
9	NA	-	-	-	-	-	-
10	NA	-	-	-	-	-	-

SHEAR WALL JOIST ANALYSIS
160 mph - Vult

Wind Speed Vult (Ultimate Design WS):	160 mph - Vult
Maximum SIDE WALL HEIGHT in Inches:	108
Maximum MEAN ROOF HEIGHT (MRH) in feet:	15
Maximum WIND EXPOSURE CATAGORY (WEC):	D
Maximum Roof Angle (Degrees):	20°

Wall ID		ON-Frame ONLY	
	X	S	T
SHEAR WALL NUMBER	DISCR.	SHEAR WALL JOIST QUANITY	SHEAR WALL JOIST SIZE / TYPE
1	SSW1	1	2x8 SP #2
2	SSW2	1	2x8 SP #2
3	ESW3	3	2x8 SP #2
4	ESW4	3	2x8 SP #2
5	NA	-	-
6	NA	-	-
7	NA	-	-
8	NA	-	-
9	NA	-	-
10	NA	-	-

RESERVED

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

THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF THE FIRE INSPECTOR, ON-SITE, FOR COMPLIANCE WITH CH 633 FIRE SAFETY CODE.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

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JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.; DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

RIDGE BEAM ANALYSIS - 01 thru 09 (160)

COL. NUM.	SPAN LEFT (Feet)	SPAN RIGHT (Feet)	MIN. NOMINAL RB SIZE (in.) LEFT SPAN	MIN. NOMINAL RB SIZE (in.) RIGHT SPAN
1	-	6.08	NA	2x10
2	6.08	-	2x10	NA
3	-	14.33	NA	14
4	14.33	-	14	NA
5	-	5.16	NA	2x8
6	5.16	-	2x8	NA
7	-	-	NA	NA
8	-	-	NA	NA
9	-	-	NA	NA

RIDGE BEAM ANALYSIS - 10 thru 18 (160)

COL. NUM.	SPAN LEFT (Feet)	SPAN RIGHT (Feet)	MIN. NOMINAL RB SIZE (in.) LEFT SPAN	MIN. NOMINAL RB SIZE (in.) RIGHT SPAN
10	-	-	NA	NA
11	-	-	NA	NA
12	-	-	NA	NA
13	-	-	NA	NA
14	-	-	NA	NA
15	-	-	NA	NA
16	-	-	NA	NA
17	-	-	NA	NA
18	-	-	NA	NA

COLUMN ANALYSIS - 01 thru 09 (160)

COL. NUM.	QUANTITY OF STUDS	STUD SIZE TYPE	ADD'L BEARING BLOCK	NUMBER OF 20 ga STRAPS
1	2	2x4	N	2
2	2	2x4	N	2
3	2	2x4	N	2
4	2	2x4	N	2
5	2	2x4	N	2
6	2	2x4	N	2
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-

COLUMN ANALYSIS - 10 thru 18 (160)

COL. NUM.	QUANTITY OF STUDS	STUD SIZE TYPE	ADD'L BEARING BLOCK	NUMBER OF 20 ga STRAPS
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE,
7th EDITION

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
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WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

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HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

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Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Floorplan Options

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

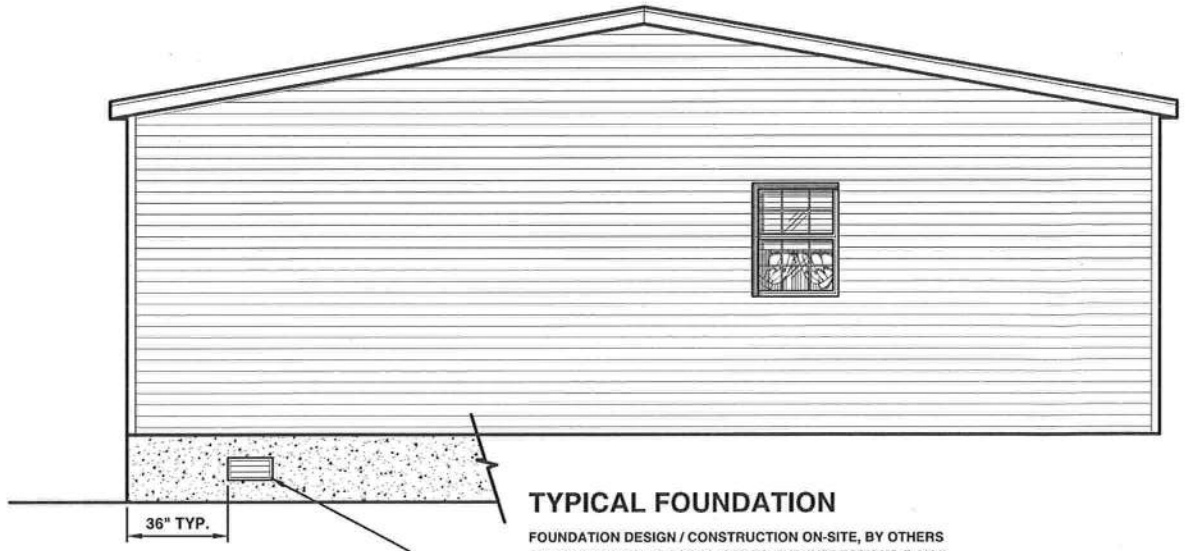
#	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	A2

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833
PLAN NUMBER:	2540-0802 (MICP-3833)

X-PS MPAC M1X

MAXIMUM CALCULATED ROOF ANGLE: **20°** (IN DECIMAL DEGREES)



TYPICAL FOUNDATION VENTILATION SIZED AND LOCATED PER ENGINEERED DESIGN, BY-OTHERS. SEE NOTES FOR MINIMUM REQ'MENTS.

STAIRS / STEPS, RAILS, ETC., ON-SITE, BY OTHERS.

TYPICAL FOUNDATION

FOUNDATION DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

TIE-DOWN / ANCHORING DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

STEM WALL FOUNDATION SHOWN - OTHER FOUNDATION TYPES MAY BE UTILIZED. ALL FOUNDATION SYSTEMS ARE SUBJECT TO APPROVAL BY THE LAHJ.

RIGHT ELEVATION

This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

TYPICAL FOUNDATION VENTILATION SIZED AND LOCATED PER ENGINEERED DESIGN, BY-OTHERS. SEE NOTES FOR MINIMUM REQ'MENTS.

STAIRS / STEPS, RAILS, ETC., ON-SITE, BY OTHERS.

TYPICAL FOUNDATION

FOUNDATION DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

TIE-DOWN / ANCHORING DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

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FRONT ELEVATION

PLAN SPEC'S AND LISTING AGENCY APPROVAL

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2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
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WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:

2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

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HWC

HWC Engineering, Inc.

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Clearwater, FL 33576
(727) 584-8151

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JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:

MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Exterior Elevations - 1

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

DRAWN BY: C. YOUNG

DATE: 1/29/2021

SCALE: Not Printed To Scale

SHEET: A3

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.; DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS

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

FOUNDATION NOTES:
1. THE FOUNDATION DESIGN AND CONSTRUCTION ARE BY OTHERS AND ARE SUBJECT TO ALL STATE AND/OR LOCAL CODES AND INSPECTIONS.
2. A MIN. 6 MIL POLY VAPOR BARRIER IS REQ'D TO COVER THE GROUND BELOW THE ENTIRE BUILDING. A MIN. 12" OVERLAP IS REQUIRED AT ALL SEAMS. ALL HOLES / TEARS / VOIDS IN BOTH THE POLY VAPOR BARRIER & "BOTTOM BOARD" SHALL BE REPAIRED / SEALED.
3. ALL COMBINED VENT. OPENINGS SHALL HAVE A NET FREE AREA OF NOT LESS THAN ONE (1) SQUARE-FEET FOR EACH 150 SQ.FT. OF CRAWL SPACE (AREA BENEATH THE BUILDING). IMPORTANT - THIS REQUIREMENT EXCEEDS THE MIN. VENTILATION OF FRC.
4. ALTERNATE MEANS OF VENTILATION AS ALLOWED BY THE FBC / FRC MAY BE USED, AS LONG AS, THE MIN. VENTILATION REQ'D IN NOTE 3 (ABOVE), IS MAINTAINED (BY OTHERS).

FOUNDATION NOTES (CONT.):
5. WHEN 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 & SYSTEMS RELATING THERETO.

ELEVATION NOTES:
1. ALL REQUIRED STEPS, RAILS, RAMPS, ETC. ARE INSTALLED ON-SITE, BY OTHERS.
2. ALL ELEVATIONS SHOWN ARE TYPICAL ONLY. ELEVATIONS WILL VERY DEPENDING ON ANY SPECIFIC OPTIONS AS PURCHASED BY THE CUSTOMER / RETAILER.
3. ANY WORK COMPLETED ON THE HOME, AFTER HOME INSTALLATION, IS SUBJECT TO ALL LOCAL CODES AND INSPECTIONS. BY OTHERS.
4. ROOF OVERHANG (EAVE) SIZES WILL VARY.
5. ENGINEERING FOR ALL SITE ITEMS ARE BY OTHERS, NOT JACOBSEN HOMES.
6. THESE ELEVATIONS ARE TYPICAL ARCHITECTURAL DESIGNS AND MAY VARY FROM THE ACTUAL ELEVATION OF THE COMPLETED STRUCTURE. MANY ITEMS SUCH AS SIDING, ROOFING, SHUTTERS, OR OTHER DECORATIVE ITEMS MAY VARY.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

APPROVED · HILBORN, WERNER, CARTER & ASSOCIATES, INC. · 09-15-2021 HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT A REVIEW OF THE PLANS AND ALL SPECIFICATIONS

RESIDENTIAL PACKAGE CODE SUMMARY

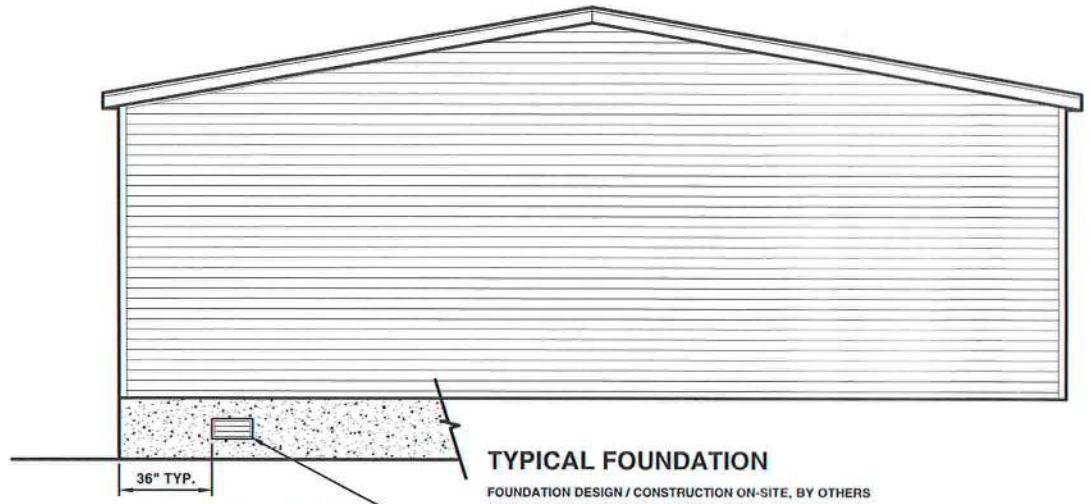
STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833

MEV-PS MEVX-PS PAD PS

MAXIMUM CALCULATED ROOF ANGLE: **20°** (IN DECIMAL DEGREES)



TYPICAL FOUNDATION

FOUNDATION DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

TIE-DOWN / ANCHORING DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

STEM WALL FOUNDATION SHOWN - OTHER FOUNDATION TYPES MAY BE UTILIZED. ALL FOUNDATION SYSTEMS ARE SUBJECT TO APPROVAL BY THE LAHJ.

This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

LEFT ELEVATION

TYPICAL FOUNDATION

FOUNDATION DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

TIE-DOWN / ANCHORING DESIGN / CONSTRUCTION ON-SITE, BY OTHERS AND IS SUBJECT TO LOCAL CODES AND INSPECTIONS (LAHJ).

STEM WALL FOUNDATION SHOWN - OTHER FOUNDATION TYPES MAY BE UTILIZED. ALL FOUNDATION SYSTEMS ARE SUBJECT TO APPROVAL BY THE LAHJ.

REAR ELEVATION

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE **HAS NOT** BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.; DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

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

FOUNDATION NOTES:
1. THE FOUNDATION DESIGN AND CONSTRUCTION ARE BY OTHERS AND ARE SUBJECT TO ALL STATE AND/OR LOCAL CODES AND INSPECTIONS.
2. A MIN. 6 MIL POLY VAPOR BARRIER IS REQ'D TO COVER THE GROUND BELOW THE ENTIRE BUILDING. A MIN. 12" OVERLAP IS REQUIRED AT ALL SEAMS. ALL HOLES / TEARS / VOIDS IN BOTH THE POLY VAPOR BARRIER & "BOTTOM BOARD" SHALL BE REPAIRED / SEALED.
3. ALL COMBINED VENT. OPENINGS SHALL HAVE A NET FREE AREA OF NOT LESS THAN ONE (1) SQUARE-FEET FOR EACH 150 SQ.FT. OF CRAWL SPACE (AREA BENEATH THE BUILDING). IMPORTANT - THIS REQUIREMENT EXCEEDS THE MIN. VENTILATION OF FRC.
4. ALTERNATE MEANS OF VENTILATION AS ALLOWED BY THE FBC / FRC MAY BE USED, AS LONG AS, THE MIN. VENTILATION REQ'D IN NOTE 3 (ABOVE), IS MAINTAINED (BY OTHERS).

FOUNDATION NOTES (CONT.):
5. WHEN 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 & SYSTEMS RELATING THERETO.

ELEVATION NOTES:
1. ALL REQUIRED STEPS, RAILS, RAMPS, ETC. ARE INSTALLED ON-SITE, BY OTHERS.
2. ALL ELEVATIONS SHOWN ARE TYPICAL ONLY. ELEVATIONS WILL VERY DEPENDING ON ANY SPECIFIC OPTIONS AS PURCHASED BY THE CUSTOMER / RETAILER.
3. ANY WORK COMPLETED ON THE HOME, AFTER HOME INSTALLATION, IS SUBJECT TO ALL LOCAL CODES AND INSPECTIONS. BY OTHERS.
4. ROOF OVERHANG (EAVE) SIZES WILL VARY.
5. ENGINEERING FOR ALL SITE ITEMS ARE BY OTHERS, NOT JACOBSEN HOMES.
6. THESE ELEVATIONS ARE TYPICAL ARCHITECTURAL DESIGNS AND MAY VARY FROM THE ACTUAL ELEVATION OF THE COMPLETED STRUCTURE. MANY ITEMS SUCH AS SIDING, ROOFING, SHUTTERS, OR OTHER DECORATIVE ITEMS MAY VARY.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION

APPROVED · HILBORN-WERNER-CARTER & ASSOCIATES, INC. · 09-15-2021 HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

****NOTICE:**
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Exterior Elevations - 2

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

DRAWN BY: C. YOUNG
DATE: 1/29/2021
SCALE: Not Printed To Scale
SHEET: A4

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833
PLAN NUMBER:	2540-0802 (MICP-3833)

THIS BUILDING IS NOT A HUD BUILDING

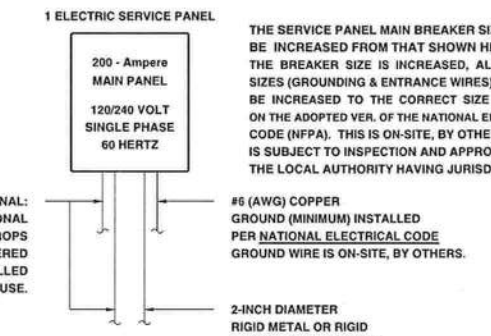
MEV-PS MEV4-PS PAE

P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

GENERAL ELECTRICAL NOTES:

1. A LICENSED ELECTRICAL CONTRACTOR (LICENSED IN THE STATE OF FLORIDA - DBPR) 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 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 & 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. 120-V, SINGLE PHASE, 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS IN BEDROOMS, LIVING ROOMS, DENS, FAMILY, CLOSETS, HALLS, DINING, KITCHEN, LAUNDRY & SIMILAR SHALL BE PROTECTED BY ARC-FAULT CIR. INTERRUPTER, COMB. TYPE INSTALLED FOR 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 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. TAMPER-RESISTANT RECEPTACLES. ALL 15- AND 20-AMPERE,125- AND 250-VOLT NONLOCKING-TYPE SHALL BE LISTED TAMPER-RESITSANT RECEPTACLES. SEE 2017-NEC-406.12.
16. DISHWASHER AND GARBAGE DISPOSAL MAY BE INSTALLED ON ONE 20-AMPERE (12-2) CIRCUIT.
17. ALL RECEPTACLE OUTLETS LOCATED WITHIN SIX-FOOT OF SINK OR BASIN SHALL BE EQUIPPED W/ GFCI PROTECTION FOR PERSONNEL. RECEPTACLE OUTLETS SERVING COUNTERTOPS, LOCATED IN THE KITCHEN SHALL BE EQUIPPED WITH GFCI PROTECTION FOR PERSONNEL.
18. 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.
19. GFCI PROTECTION MAY BE PROVIDED BY EITHER A BREAKER OR A GFCI RECEPTACLE.
20. 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.
21. 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.
22. IN DWELLING UNITS, HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE.
23. 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.
24. LIGHTING OUTLETS REQ'D: AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND BATHROOM.
25. LUMINARIES (FIXTURES) IN CLOTHES CLOSETS:
    A. LUMINARY (FIXTURE) TYPES PERMITTED:
        (1) A SURFACE-MOUNTED OR RECESSED INCANDESCENT LUMINARY (FIXTURE) WITH A COMPLETELY ENCLOSED LAMP.
        (2) A SURFACE-MOUNTED OR RECESSED FLUORESCENT LUMINARY (FIXTURE).
    B. LUMINARY (FIXTURE) TYPES NOT PERMITTED:
        (1) INCANDESCENT LUMINARIES (FIXTURES) WITH OPEN OR PARTIALLY ENCLOSED LAMPS AND PENDANT LUMINARIES (FIXTURES) OR LAMP HOLDERS SHALL NOT BE PERMITTED.
    C. LOCATION: LUMINARIES (FIXTURES) IN CLOTHES CLOSETS SHALL BE PERMITTED TO BE INSTALLED AS FOLLOWS:
        (1) SURFACE-MOUNTED INCANDESCENT LUMINARIES (FIXTURES) INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 12 INCHES BETWEEN THE LUMINARY (FIXTURE) AND THE NEAREST POINT OF A STORAGE SPACE.
        (2) SURFACE-MOUNTED FLUORESCENT LUMINARIES (FIXTURES) INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6 INCHES BETWEEN THE LUMINARY (FIXTURE) AND THE NEAREST POINT OF A STORAGE SPACE.
        (3) RECESSED INCANDESCENT LUMINARIES (FIXTURES) WITH A COMPLETELY ENCLOSED LAMP INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6 INCHES BETWEEN THE LUMINARY (FIXTURE) AND THE NEAREST POINT OF A STORAGE SPACE.
        (4) RECESSED FLUORESCENT LUMINARIES (FIXTURES) THAT ARE INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6 INCHES BETWEEN THE LUMINARY (FIXTURE) AND THE NEAREST POINT OF A STORAGE SPACE.
26. BATHTUB AND SHOWER AREAS: NO PART OF A CORD-CONNECTED LUMINARIES (FIXTURES), CHAIN-, CABLE-, OR CORD-SUSPENDED-LUMINAIRES (FIXTURES), LIGHTING TRACK, PENDANTS, OR CEILING-SUSPENDED (PADDLE) FANS SHALL BE LOCATED WITHIN A ZONE MEASURED 3 FEET HORIZONTALLY AND 8-FEET VERTICALLY FROM THE TOP OF THE BATHTUB RIM OR SHOWER THRESHOLD. THIS ZONE IS ALL ENCOMPASSING AND INCLUDES THE ZONE DIRECTLY OVER THE TUB OR SHOWER STALL. LUMINARIES (LIGHTING FIXTURES) LOCATED IN THIS ZONE SHALL BE LISTED FOR DAMP LOCATIONS, OR LISTED FOR WET LOCATIONS WHERE SUBJECT TO SHOWER SPRAY.
27. FAN / LIGHT COMBINATIONS SHALL BE INSTALLED WITH SEPARATE SWITCHES.
28. THE MAIN ELECTRICAL SERVICE PANEL IS WIRED UTILIZING AN ISOLATED NEUTRAL/GROUND (4-WIRE SYSTEM) FROM THE FACTORY. IT IS THE SOLE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR TO PROVIDE THE BONDING BETWEEN THE NEUTRAL AND THE GROUND IF REQUIRED.
29. ANY BUILDING HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE (CO) ALARM INSTALLED WITHIN 10-FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
30. PER THE REFERENCED FLORIDA ENERGY CONSERVATION CODE; A MINIMUM OF 90% OF THE LAMPS IN PERMANENTLY INSTALLED FIXTURES SHALL BE HIGH EFFICIENCY LAMPS OR A MINIMUM OF 90% OF PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH EFFICIENCY LAMPS.

**** IMPORTANT: READ AND UNDERSTAND ALL NOTES IN THIS APPROVED DRAWING PACKAGE.



200 - Ampere
ELECTRICAL RISER DIAGRAM

THE HVAC SYSTEM IS SIZED & INSTALLED ON-SITE, BY A QUALIFIED / CERTIFIED, HVAC CONTRACTOR & CONNECTED TO SERVICE BY AN ELECTRICAL CONTRACTOR. PERMITTED AND INSPECTED BY LOCAL AUTHORITY HAVING JURISDICTION (LAHJ).

MINIMUM SERVICE PANEL MAIN BREAKER CAPACITY: 148 Amperes
SERVICE PANEL, MAIN BREAKER SIZE: 200 Amperes

200 - Ampere

ELECTRICAL LOAD ANALYSIS / CALC (SERVICE PANEL SIZING)

BUILDING SIZE: 1839 Sq. Ft.

ELECTRICAL LOAD CALCULATIONS

1. Minimum Number of General Lighting / General Use Circuits Required: 4 Minimum
   (Sq.Ft. x 3VA / 120 Volts / 15 Amps = Minimum Number of General Use Circuits Req'd)
2. General Lighting and General Use Receptacles at 3 Volt-Amperes per Building Square Foot:
   General Lighting / General Use = 1839 Sq. Ft. x 3 VA = 5517 Volt-Amperes
   General Lighting / General Use = 5517 Volt-Amperes
3. Laundry and Small Appliance Load at 1,500 Volt-Amperes per 20-Ampere Circuit:
   Small Appliance Circuits = 3 x 1,500 VA = 4500 Volt-Amperes
   LAUNDRY Circuits = 1 x 1,500 VA = 1500 Volt-Amperes
   Total Laundry and Small Appliance Load (Volt-Amperes) = 6000 Volt-Amperes
4. Nameplate Rating of All Fixed Appliances (Volt-Amperes):

Clothes Dryer =	5800 Volt-Amperes
Cooking Range =	9500 Volt-Amperes
Cook-top =	0 Volt-Amperes
Wall Oven =	0 Volt-Amperes
Microwave Oven =	2400 Volt-Amperes
Dishwasher =	1380 Volt-Amperes
Garbage Disposal =	1080 Volt-Amperes
Water Heater =	4750 Volt-Amperes
Optional WH #2 = =	0 Volt-Amperes
Optional Freezer = =	0 Volt-Amperes
Fireplace (Blower Motor) = =	0 Volt-Amperes
40-Ampere Junction Box = =	0 Volt-Amperes
Total Fixed Appliance Load (Volt-Amperes) =	25010 Volt-Amperes

5. Nameplate Rating of Motor and Low-Power-Factor Loads (in Amperes):

Range Hood(s) =	1	x 1.1	=	1.1 Amperes
Exhaust Fan(s) =	2	x 0.7	=	1.4 Amperes
Ceiling Fan(s) =	5	x 1	=	5 Amperes
Furnace Blower (Gas / Oil) =	0	x 8	=	0 Amperes
		Total Amperes =		7.5 Amperes
		Multiply By - x		120.00 Volts
Total Motor and Low-Power-Factor Loads (Volt-Amperes) =				900 Volt-Amperes

6. Total Heating and Air-Conditioning Load:
   (Use the LARGEST of the Following Six Selections - (a) through (f) - in Volt-Amperes):

a. 100-percent of the nameplate rating(s) of the air-conditioning and cooling load(s) (Volt-Amperes):						LARGEST
	1	x 14400	x	100%	=	14400 Volt-Amperes
b. 100-percent of the nameplate rating(s) of the heating load when a heat pump is used without any supplemental electric heating (Volt-Amperes):	1	x 12000	x	100%	=	12000 Volt-Amperes
c. 100-percent of the nameplate rating(s) of electrical thermal storage and other heating system(s) where the usual load is expected to be continuous at the full name-plate 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%	=	Volt-Amperes
d. 100-percent of the nameplate rating(s) of the heat pump compressor AND 65-percent of supplemental electric heating systems. If the heat pump compressor is prevented from operating at the same time as the supplementary heat, it does NOT need to be added to the supplementary heat for the total central space heating load (Volt-Amperes):	HEAT PUMP Load: 0	x 0	x	100%	=	0 Volt-Amperes
	SUPPLEMENTAL Electric Heating System Load: 0	x 0	x	65%	=	0 Volt-Amperes
	TOTAL Load - 6 (d):					0 Volt-Amperes
e. 65-percent of the nameplate rating(s) of electric space heating if less than four separately controlled units (Volt-Amperes):	0	x 0	x	65%	=	0 Volt-Amperes
f. 40-percent of the nameplate rating(s) of electric space heating if four or more separately controlled units (Volt-Amperes):	0	x 0	x	40%	=	0 Volt-Amperes
(Use the LARGEST of the Following Six Selections - (a) through (f) - in Volt-Amperes):						14400 Volt-Amperes

7. Total Calculated Load (Combined Loads as Calculated in (2) through (5)):

General Lighting / General Use (2) =	5517 Volt-Amperes
Total Laundry and Small Appliance Load (Volt-Amperes) (3) =	6000 Volt-Amperes
Total Fixed Appliance Load (Volt-Amperes) (4) =	25010 Volt-Amperes
Total Motor and Low-Power-Factor Loads (Volt-Amperes) (5) =	900 Volt-Amperes
Total Volt-Amperes - Combined Totals from (2) through (5) =	37427 Volt-Amperes

8. Total Combined Load (from 7 Above):

Total Volt-Amperes - Combined Totals from (2) through (5) =	37427 Volt-Amperes
SUBTRACT - First 10KVA at 100-percent =	10000 Volt-Amperes
Total from (7) minus 10KVA =	27427 Volt-Amperes

9. Allowed Load Reduction:

First 10KVA at 100-percent =	10000 Volt-Amperes
Total from 8 Above = Volt Amperes - REMAINDER at 40-percent =	10970.8 Volt-Amperes
SUBTOTAL of BOTH Load Combinations =	20970.8 Volt-Amperes

10. Minimum Calculated Service Panel Load:

Total Combined Load from 9 Above =	20970.8 Volt-Amperes
Total Heating and AC Loads - LARGEST of (a) through (f) =	14400 Volt-Amperes
SUBTOTAL of Load =	35370.8 Volt-Amperes
SUBTOTAL divided by 240-Volts /	240.00 Volts
MINIMUM Calculated Amperes Required =	147.38 Amperes

CALCULATIONS PER NATIONAL ELECTRICAL CODE 220-82 — 1 ELECTRIC SERVICE PANEL
OPTIONAL CALCULATION - DWELLING UNIT

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION
THE STRUCTURE AND FOUNDATION SYSTEMS ARE DESIGNED ON CONSTRUCTED BY OTHERS. JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSIDERATIONS, PERFORMANCE OF THE SUPERSTRUCTURE, STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Electrical Load Calcs & Notes

REVISION SCHEDULE:

#	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

ELECTRICAL SYMBOLS LEGEND

RECEPTACLES: TYPICAL 120 VOLT; TYPICAL 240 VOLT; WP TYPICAL 120 VOLT
SWITCHES: $ TYPICAL; WH $ WATER HEATER
JUNCTION BOXES: AT EDGE OF FLOOR; UNDER FLOOR
ELECTRICAL PANEL: TYPICAL; THERMOSTAT: T TYPICAL
EXH. FANS: MH 67 W/ LIGHT 2 SWITCHES; V-2062 NO LIGHT 1 SWITCH
SMOKE ALARM(S): TYPICAL WALL MNT.; TYPICAL CEIL. MNT.; COMBIN. SMOKE / CO
CEILING FAN (OPTIONAL); FAN PREP
T.V. / PHONE PREP. (OPTIONAL); T.V. / PHONE
EXTERIOR INCANDESCENT LIGHTS (WEATHER RESISTANT - REQUIRED); EITHER SYMBOL MAY BE USED
INTERIOR INCANDESCENT LIGHTS: (WET LOC.); STANDARD; POSITIONED; RECESSED; GASKET; WALL MOUNTED

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.; DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION
APPROVED · HILBORN, WERNER, CARTER & ASSOCIATES, INC. · 09-15-2021 · HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF	Florida
BUILDING:	2020 FRC	7th EDITION 2021 SUPPLIMENTS
MECH.:	2020 FRC	7th EDITION
PLUMB.:	2020 FRC	7th EDITION
ENERGY:	2020 FRC	7th EDITION
ELECT.:	2017 N.E.C.	

COMPLIES WITH THE 2020 FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

DRAWN BY: C. YOUNG
DATE: 1/29/2021
SCALE: Not Printed To Scale
SHEET: E1

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833

C-PS PAP WELC23 WELC

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

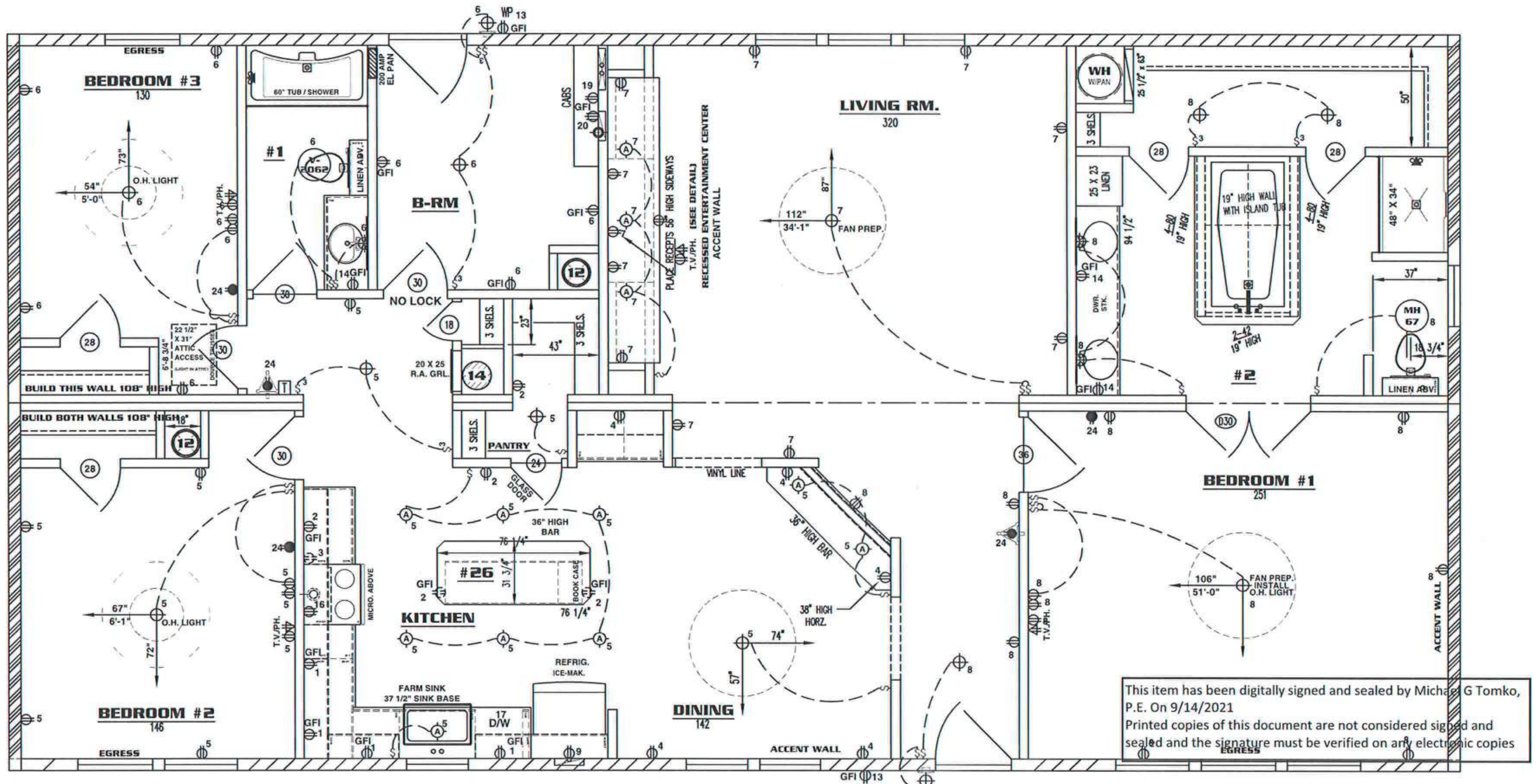
ELECTRICAL NOTES:

1. TAMPER-RESISTANT RECEPTACLES. ALL 15- AND 20-AMPERE,125- AND 250-VOLT NONLOCKING-TYPE SHALL BE LISTED TAMPER-RESITSANT RECEPTACLES. SEE 2017-NEC-406.12.
2. DISHWASHER AND GARBAGE DISPOSAL MAY BE INSTALLED ON ONE 20-AMPERE (12-2) CIRCUIT.
3. ALL RECEPTACLE OUTLETS LOCATED WITHIN SIX-FOOT OF SINK OR BASIN SHALL BE EQUIPPED W/ GFCI PROTECTION FOR PERSONNEL. RECEPTACLE OUTLETS SERVING COUNTERTOPS, LOCATED IN THE KITCHEN SHALL BE EQUIPPED WITH GFCI PROTECTION FOR PERSONNEL.
4. 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.
5. DEVICES (LIGHTS, FANS, ETC.) INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE LISTED FOR USE IN A WET LOCATIONS AND SHALL BE MADE "WEATHER PROOF" IN ACCORDANCE WITH THE DEVICES LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ITEMS ARE "WP" AND ARE NOT REQUIRED TO BE LABELED AS SUCH IN THE DRAWING BELOW.
6. GFCI PROTECTION MAY BE PROVIDED BY EITHER A BREAKER OR A GFCI RECEPTACLE.
7. 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.

ELECTRICAL CIRCUIT SHEDULE

#	DESCRIPTION / NOMENCLATURE	BREAKER SIZE (AMPERES)	WIRE SIZE (CU.)	#	DESCRIPTION / NOMENCLATURE	BREAKER SIZE (AMPERES)	WIRE SIZE (CU.)	#	DESCRIPTION / NOMENCLATURE	BREAKER SIZE (AMPERES)	WIRE SIZE (CU.)
1	SMALL APPLIANCE - ARC FAULT/GFCI	AF/GFCI - 20	12-2	11	RESERVED - CIRCUIT NOT USED	NA	NA	21	RESERVED - CIRCUIT NOT USED	NA	NA
2	SMALL APPLIANCE - ARC FAULT/GFCI	AF/GFCI - 20	12-2	12	RESERVED - CIRCUIT NOT USED	NA	NA	22	RESERVED - CIRCUIT NOT USED	NA	NA
3	OPT. MICROWAVE - ARC FAULT	AF - 20	12-2	13	EXT. RECEPTS (GFCI)	GFCI - 20	12-2	23	HVAC (HEATING/AC) - BY OTHERS	75	3-3
4	SMALL APPLIANCE - ARC FAULT/GFCI	AF/GFCI - 20	12-2	14	BATH RECEPTS (GFCI)	GFCI - 20	12-2	24	SMOKE ALARMS (INTERCONNECTED/AF)	AF - 15	14-3
5	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	15	WATER HEATER	20	12-2	25	RESERVED - CIRCUIT NOT USED	NA	NA
6	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	16	ELECTRIC RANGE	40	8-3	26	RESERVED - CIRCUIT NOT USED	NA	NA
7	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	17	OPT. DISHWASHER - ARC FAULT/GFCI	AF/GFCI-15	14-2	27	RESERVED - CIRCUIT NOT USED	NA	NA
8	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	18	OPT. GARBAGE DISPOSAL - ARC FAULT	AF - 15	14-2	28	RESERVED - CIRCUIT NOT USED	NA	NA
9	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	19	LAUNDRY (WASHER) - ARC FAULT	AF - 20	12-2	29	RESERVED - CIRCUIT NOT USED	NA	NA
10	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	20	LAUNDRY (CLOTHES DRYER)	30	10-3	30	RESERVED - CIRCUIT NOT USED	NA	NA

TOTAL NUMBER OF BREAKER SLOTS USED = 24
TOTAL NUMBER OF CIRCUITS USED = 20



This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.: 2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

NOTICE:

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JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Electrical Plan

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

#	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

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ELECTRICAL SYMBOLS LEGEND

RECEPTACLES: TYPICAL 120 VOLT; TYPICAL 240 VOLT; WP TYPICAL 120 VOLT	EXH. FANS: MH 67 W/ LIGHT 2 SWITCHES; V-2062 NO LIGHT 1 SWITCH	EXTERIOR INCANDESCENT LIGHTS (WEATHER RESISTANT - REQUIRED)	
SWITCHES: $ TYPICAL; WH $ WATER HEATER	SMOKE ALARM(S): TYPICAL WALL MNT.; TYPICAL CEIL. MNT.; COMBIN. SMOKE / CO	EITHER SYMBOL MAY BE USED	
JUNCTION BOXES: AT EDGE OF FLOOR; UNDER FLOOR	CEILING FAN (OPTIONAL): FAN PREP	INTERIOR INCANDESCENT LIGHTS	
ELECTRICAL PANEL: TYPICAL; THERMOSTAT: T TYPICAL	T.V. / PHONE PREP. (OPTIONAL): T.V. / PHONE	STANDARD POSITIONED RECESSED GASKET (WET LOC.) WALL MOUNTED	

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

APPROVED 09-15-2021 HWC HILBORN, WERNER, CARTER & ASSOCIATES INC.

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

"THIS BUILDING IS NOT A HUD BUILDING"

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	E2

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	109
MODEL:	MICP-3833

X-PS PAG MELC2 MELCIR

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

ELECTRICAL NOTES:

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6. GFCI PROTECTION MAY BE PROVIDED BY EITHER A BREAKER OR A GFCI RECEPTACLE.
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ELECTRICAL CIRCUIT SHEDULE

#	DESCRIPTION / NOMENCLATURE	BREAKER SIZE (AMPERES)	WIRE SIZE (CU.)	#	DESCRIPTION / NOMENCLATURE	BREAKER SIZE (AMPERES)	WIRE SIZE (CU.)	#	DESCRIPTION / NOMENCLATURE	BREAKER SIZE (AMPERES)	WIRE SIZE (CU.)
1	SMALL APPLIANCE - ARC FAULT/GFCI	AF/GFCI - 20	12-2	11	RESERVED - CIRCUIT NOT USED	NA	NA	21	RESERVED - CIRCUIT NOT USED	NA	NA
2	SMALL APPLIANCE - ARC FAULT/GFCI	AF/GFCI - 20	12-2	12	RESERVED - CIRCUIT NOT USED	NA	NA	22	RESERVED - CIRCUIT NOT USED	NA	NA
3	OPT. MICROWAVE - ARC FAULT	AF - 20	12-2	13	EXT. RECEPTS (GFCI)	GFCI - 20	12-2	23	HVAC (HEATING/AC) - BY OTHERS	75	3-3
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5	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	15	WATER HEATER	20	12-2	25	RESERVED - CIRCUIT NOT USED	NA	NA
6	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	16	ELECTRIC RANGE	40	8-3	26	RESERVED - CIRCUIT NOT USED	NA	NA
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8	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	18	OPT. GARBAGE DISPOSAL - ARC FAULT	AF - 15	14-2	28	RESERVED - CIRCUIT NOT USED	NA	NA
9	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	19	LAUNDRY (WASHER) - ARC FAULT	AF - 20	12-2	29	RESERVED - CIRCUIT NOT USED	NA	NA
10	GENERAL PURPOSE - ARC FAULT	AF - 15	14-2	20	LAUNDRY (CLOTHES DRYER)	30	10-3	30	RESERVED - CIRCUIT NOT USED	NA	NA

TOTAL NUMBER OF BREAKER SLOTS USED = 24
TOTAL NUMBER OF CIRCUITS USED = 20

RESERVED

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
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ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

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HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
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JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

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ELECTRICAL SYMBOLS LEGEND

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SWITCHES: $ TYPICAL; WH $ WATER HEATER	SMOKE ALARM(S): TYPICAL WALL MNT.; SA TYPICAL CEIL. MNT.; COMBIN. SMOKE / C_O	
JUNCTION BOXES: AT EDGE OF FLOOR; UNDER FLOOR	CEILING FAN (OPTIONAL): FAN PREP	INTERIOR INCANDESCENT LIGHTS: STANDARD, POSITIONED, RECESSED, GASKET, WALL MOUNTED (WET LOC.)
ELECTRICAL PANEL: TYPICAL; THERMOSTAT: T TYPICAL	T.V. / PHONE PREP. (OPTIONAL): T.V. / PHONE	

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE,
7th EDITION

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida	
BUILDING:	2020 FRC	7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC	7th EDITION
PLUMB.:	2020 FRC	7th EDITION
ENERGY:	2020 FRC	7th EDITION
ELECT.:	2017 N.E.C.	

COMPLIES WITH THE 2020FIRE PREVENTION CODE

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833

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Florida License No: 63802
4703 Chester Drive
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(574) 264-0745

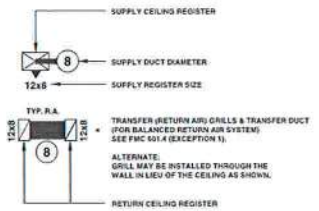
Florida
2540-0802 (MICP-3833)
Electrical Plan Opt.- 1

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	E3

MELCIR
MELC2
PAH
PS



MECHANICAL NOTES:

1. ALL AIR SUPPLY REGISTERS ARE ADJUSTABLE, EXCEPT WHERE OTHERWISE SPECIFIED ON THE PLANS.
2. INTERIOR DOORS SHALL BE UNDERCUT 1" ABOVE THE FINISHED FLOOR FOR RETURN AIR AND/OR AS SPECIFICALLY NOTED ON THE PLANS.
3. RESIDENTIAL APPLICATIONS: RESTROOM VENT FANS SHALL PROVIDE 50 CFM MINIMUM OF VENTILATION.
4. COMMERCIAL APPLICATIONS: RESTROOM VENT FANS SHALL PROVIDE 75 CFM MINIMUM OF VENTILATION.
5. BATH VENT FANS SHALL BE DUCTED TO THE EXTERIOR OF THE BUILDING.
6. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKE(S) PROVIDING 20 CFM FOR EACH OCCUPANT OR 50 CFM FOR EACH WATER CLOSET AND/OR URINAL, WHICHEVER IS GREATER. THIS IS REQUIRED TO BE INSTALLED ON-SITE, BY OTHERS.
7. 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.

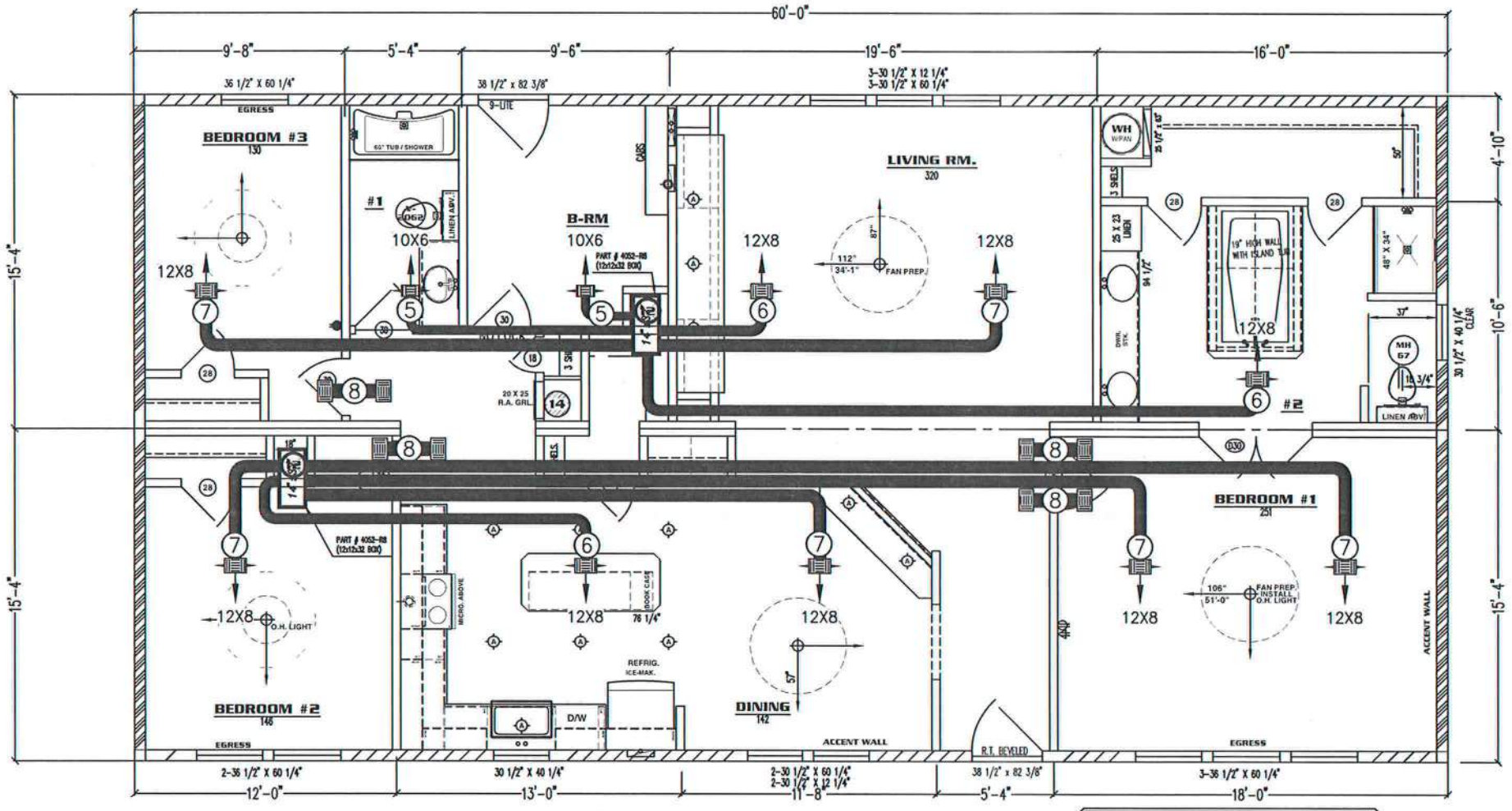
MECHANICAL NOTES: (CONTINUED):

8. ALL DUCTS AND DUCT SYSTEM COMPONENTS INSTALLED IN THE ATTIC AREA WITH INSULATION, SHALL HAVE A MINIMUM R-VALUE OF R-8.0.
9. 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 THE FL. ENERGY CODE.
10. ALL HVAC COMPONENTS INSTALLED ON-SITE, SHALL BE INSTALLED BY A LICENSED HVAC CONTRACTOR.
11. ANY AIR HANDLER / RETURN AIR COMPARTMENTS SHALL BE FIRE STOPPED AND SEALED IN ACCORDANCE WITH THE FBC, ON-SITE, BY OTHERS.
12. 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.
13. OPT. FACTORY BUILT FIREPLACES INSTALLED IN ACCORDANCE w/ FMC.
14. OPT. FACTORY BUILT FIREPLACES SHALL COMPLY WITH UL-127.

MINIMUM REQUIRED EQUIPMENT SPECS: ALL CLIMATE ZONES:

1. PROGRAMMABLE THERMOSTAT IS REQUIRED TO BE INSTALLED.
2. 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.
3. 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 SYSTEM. A MANUAL-J&S FORMS ARE 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).
4. CROSS-OVER CONNECTIONS (HVAC), FRESH AIR INTAKE, AND ANY REQUIRED TESTS (DUCT TIGHTNESS, BLOWER DOOR, ETC...) SHALL BE COMPLETED ON-SITE BY OTHERS, BY QUALIFIED PERSONNEL.

HVAC LAYOUT



This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

* RAFTERS 16" O.C.

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:

2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:

SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:

MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
HVAC System Layout - 1

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd PARTY APPROVAL AGENCY(S) ALONG WITH THE ARCHITECT AND/OR ENGINEER OF THE BUILDING PLANS SHALL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE FOUNDATION SYSTEMS, STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	M1

IMPORTANT NOTES FOR HVAC CONTRACTOR / LAHJ

** BOTH MANUAL "J" AND MANUAL "S" FORMS ARE REQUIRED TO BE COMPLETED BY A LICENSED HVAC CONTRACTOR AFTER THE BUILDING HAS BEEN COMPLETED ON-SITE, TO ENSURE ALL EQUIPMENT IS PROPERLY SIZED (ON-SITE, BY OTHERS). THE HVAC CONTRACTOR IS SOLELY RESPONSIBLE / LIABLE FOR ANY / ALL DAMAGES TO THE BUILDING OR PERSONS.

*** ANY REQUIRED TESTING (BLOWER DOOR AND / OR DUCT TIGHTNESS) SHALL BE COMPLETED BY THE LICENSED HVAC CONTRACTOR OR OTHER QUALIFIED AFTER THE BUILDING IS COMPLETED ON-SITE, NOT BY JACOBSEN HOMES (ON-SITE, BY OTHERS).

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.; DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

APPROVED · HILBORN, WERNER, CARTER & ASSOCIATES, INC. · 09-15-2021 HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

THIS BUILDING IS NOT A HUD BUILDING

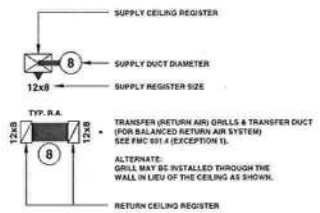
RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833
PLAN NUMBER:	2540-0802 (MICP-3833)

3CPS PAI MACAH



MECHANICAL NOTES:

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MECHANICAL NOTES: (CONTINUED):

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HVAC LAYOUT

RESERVED

PLAN SPEC'S AND LISTING AGENCY APPROVAL

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2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

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WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
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ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:

2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

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THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC

HWC Engineering, Inc.

1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:

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JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND ON INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

Michael TOMKO
P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
HVAC System Layout - 2

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

DRAWN BY: C. YOUNG

DATE: 1/29/2021

SCALE: Not Printed To Scale

SHEET: M2

IMPORTANT NOTES FOR HVAC CONTRACTOR / LAHJ

** BOTH MANUAL "J" AND MANUAL "S" FORMS ARE REQUIRED TO BE COMPLETED BY A LICENSED HVAC CONTRACTOR AFTER THE BUILDING HAS BEEN COMPLETED ON-SITE, TO ENSURE ALL EQUIPMENT IS PROPERLY SIZED (ON-SITE, BY OTHERS). THE HVAC CONTRACTOR IS SOLELY RESPONSIBLE / LIABLE FOR ANY / ALL DAMAGES TO THE BUILDING OR PERSONS.

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RESIDENTIAL PACKAGE CODE SUMMARY

COMPLIES WITH THE 2020 FIRE PREVENTION CODE

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833

PAJ MACAH

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

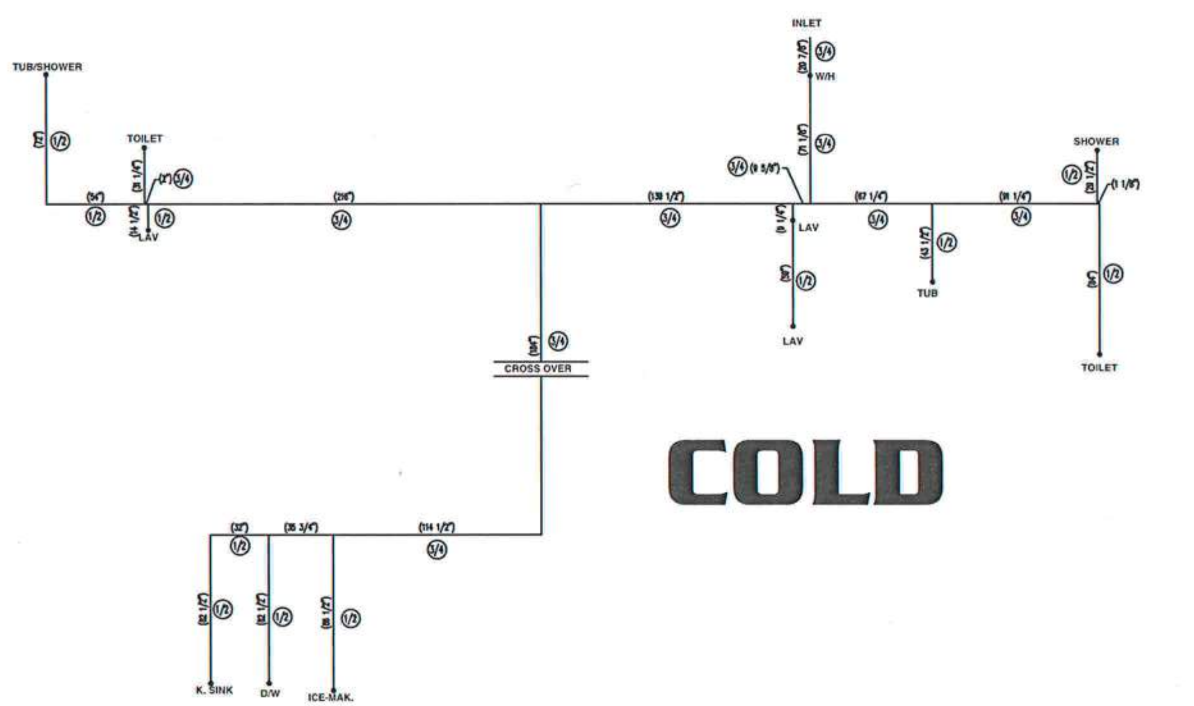
POTABLE WATER SUPPLY SYSTEM NOTES:

1. WATER SUPPLY PIPING SHALL BE TYPE "L COPPER, CPVC, CROSS LINKED POLY-ETHYLENE OR OTHER MATERIALS APPROVED PER STATE AND/OR LOCAL CODE(S).
2. WATER HAMMER ARRESTORS NOT REQUIRED WITH NONMETALLIC WATER LINES.
3. THE WATER HEATER SHALL HAVE A SAFETY PAN WITH 1-INCH MINIMUM DRAIN TO THE EXTERIOR OF THE BUILDING (ON-SITE, BY OTHERS).
4. THE WATER HEATER T&P RELIEF VALVE SHALL DRAIN TO THE EXTERIOR (ON-SITE, BY OTHERS) AND SHALL NOT TERMINATE BELOW THE HOME.
5. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLATION INSTRUCTIONS, SHALL BE INSTALLED ON-SITE, BY OTHERS AND SHALL BE SUBJECT TO LOCAL APPROVAL.
6. ALL PLUMBING FIXTURES SHALL HAVE A SEPARATE SHUTOFF VALVE.
7. A SHUTOFF VALVE SHALL BE INSTALLED WITHIN THREE FEET OF THE FRESH WATER INLET TO THE BUILDING (THIS SHALL BE INSTALLED ON-SITE, BY OTHERS) AND SHALL BE SUBJECT TO LOCAL APPROVAL.
8. WATER SUPPLY PIPING INSTALLED IN ANY WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE EXTERIOR WALL INSULATION. ALL WATER LINES LOCATED IN ANY UNCONDITIONED SPACES SHALL BE INSULATED WITH MINIMUM R-6.5 INSULATION (ON-SITE, BY OTHERS).
9. WATER SUPPLY "STUB-UPS" TO BE 1/2" MINIMUM.
10. ALL SUPPLY "CROSSOVER" (MATING LINES) PIPING SHALL BE CONNECTED ON-SITE, BY OTHERS, AND SHALL BE SUBJECT TO LOCAL APPROVAL.
11. ALL SHOWER STALLS SHALL BE COVERED WITH A NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 70-INCHES ABOVE THE FINISHED FLOOR LEVEL. IF THIS IS NOT FACTORY INSTALLED IT SHALL BE COMPLETED ON-SITE, BY OTHERS, AND SHALL BE SUBJECT TO LOCAL APPROVAL.
12. WHEN PROVIDED: ALL FIXTURES FOR SHOWER(S), TUB(S), AND/OR TUB/SHOWER COMBINATIONS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM OUTLET TEMPERATURE OF 120° F (48.8° C).
13. ALL LAVS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE.
14. EXTERIOR FAUCET HOSE BIBS OR WALL HYDRANTS (WATER SUPPLY OUTLETS WITH HOSE THREADS) SHALL BE EQUIPPED WITH A VACUUM BREAKER, INSTALLED PER THE MANUFACTURES INSTRUCTIONS. EXT. FAUCETS ARE INSTALLED ON-SITE, BY OTHERS.
15. ALL ON-SITE PLUMBING SHALL BE CONNECTED OR INSTALLED BY A LICENSED PLUMBING CONTRACTOR. ALL ON-SITE PLUMBING SHALL BE SUBJECT TO REQUIRED INSPECTIONS AND APPROVAL BY THE LOCAL AUTHORITY THAT HAS JURISDICTION.
16. THE WATER SUPPLY PRESSURE SHALL NOT EXCEED 60-PSI. WHEN THE PRESSURE EXCEEDS 60-PSI, A PRESSURE REDUCING VALVE SHALL BE INSTALLED. IN NO CASE SHALL THE PRESSURE EXCEED 60-PSI.

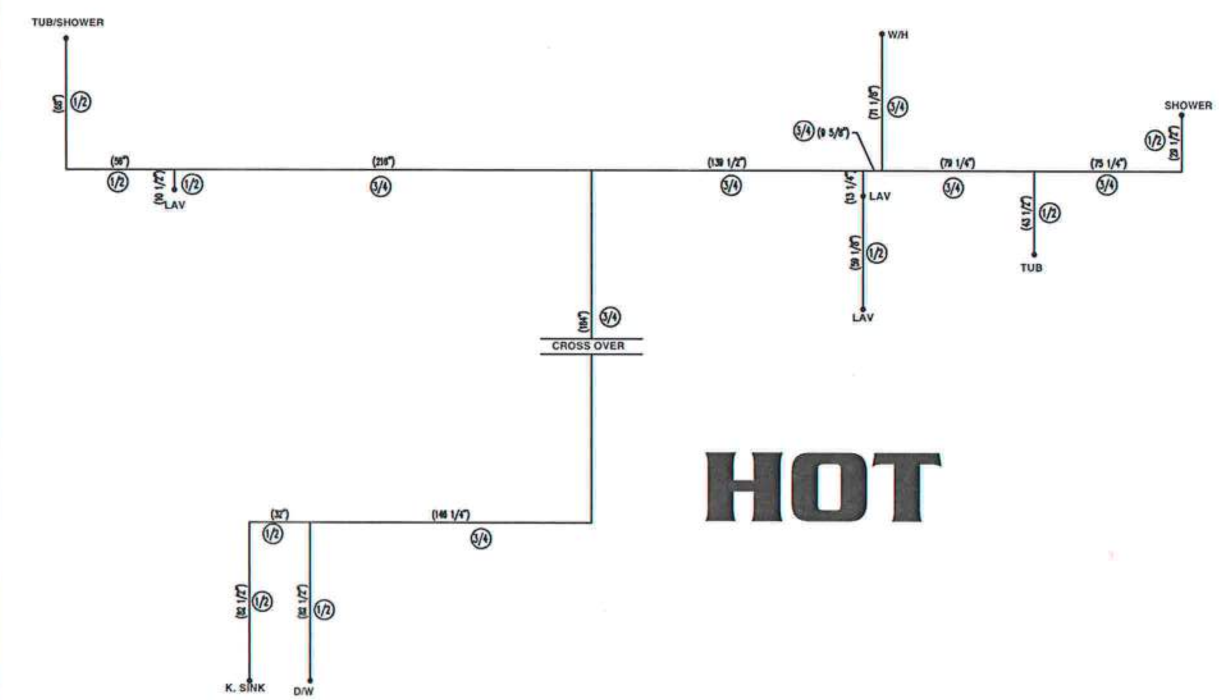
SITE INSPECTION AND TESTING IS REQUIRED

A LICENSED PLUMBING CONTRACTOR IS REQUIRED TO MAKE ALL CONNECTIONS AFTER THE BUILDING IS INSTALLED ON-SITE (THIS APPLIES TO THE POTABLE WATER SUPPLY SYSTEM AND THE DRAIN, WASTE, AND VENT - DWV SYSTEM). ALL ON-SITE CONNECTIONS ARE SUBJECT TO INSPECTION AND REVIEW BY THE LOCAL JURISDICTION HAVING AUTHORITY. ONCE ALL ON-SITE CONNECTIONS HAVE BEEN COMPLETED, THE LICENSED PLUMBING CONTRACTOR SHALL PERFORM ALL INSPECTIONS ON THE COMPLETED SYSTEMS IN ACCORDANCE WITH SECTION P2503 OF THE FLORIDA CODE.

POTABLE WATER SYSTEM LAYOUT COLD WATER DISTRIBUTION SYSTEM



POTABLE WATER SYSTEM LAYOUT HOT WATER DISTRIBUTION SYSTEM



This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
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PLAN SPEC'S AND LISTING AGENCY APPROVAL

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2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
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ALLOWABLE FLOOR LOAD	40 psf
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MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

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Florida
2540-0802 (MICP-3833)
Potable Water System

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

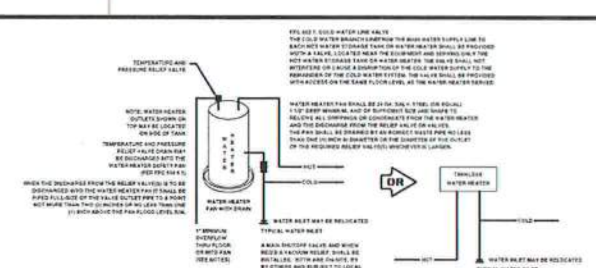
THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE **HAS NOT** BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.: DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

POTABLE WATER SYSTEM WATER HEATER DETAIL



AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION

APPROVED
09-15-2021
HWC
HILBORN, WERNER, CARTER & ASSOCIATES INC.

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	P1

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833
PLAN NUMBER:	2540-0802 (MICP-3833)

X-PS PAK MPWS

SITE INSPECTION AND TESTING IS REQUIRED

A LICENSED PLUMBING CONTRACTOR IS REQUIRED TO MAKE ALL CONNECTIONS AFTER THE BUILDING IS INSTALLED ON-SITE (THIS APPLIES TO THE POTABLE WATER SUPPLY SYSTEM AND THE DRAIN, WASTE, AND VENT - DWV SYSTEM). ALL ON-SITE CONNECTIONS ARE SUBJECT TO INSPECTION AND REVIEW BY THE LOCAL JURISDICTION HAVING AUTHORITY. ONCE ALL ON-SITE CONNECTIONS HAVE BEEN COMPLETED, THE LICENSED PLUMBING CONTRACTOR SHALL PERFORM ALL INSPECTIONS ON THE COMPLETED SYSTEMS IN ACCORDANCE WITH SECTION P2503 OF THE FLORIDA CODE.

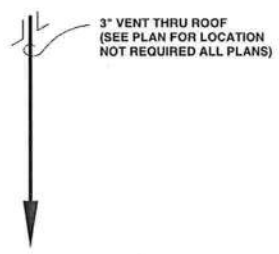
PLUMBING NOTES:

1. THE DRAIN/WASTE/VENT (DWV) SYSTEM SHALL BE CONSTRUCTED OF MATERIALS LISTED IN, OR ALLOWED BY, THE FLORIDA PLUMBING CODE.
2. DWV SYSTEMS MAY BE ABS OR PVC PIPING.
3. TUB AND/OR SHOWER P-TRAP ACCESS IS PROVIDED UNDER HOME, UNLESS OTHERWISE NOTED ON THE PLANS (WHEN INSTALLED).
4. THE BUILDING DRAIN AND CLEAN-OUTS, WHEN DESIGNED BY OTHERS AND SITE INSTALLED BY-OTHERS AND ARE SUBJECT TO LOCAL JURISDICTION (LAHJ).
5. ALL ON-SITE PLUMBING SHALL BE CONNECTED OR INSTALLED BY A LICENSED PLUMBING CONTRACTOR. ALL ON-SITE PLUMBING SHALL BE SUBJECT TO REQUIRED INSPECTIONS AND APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION.

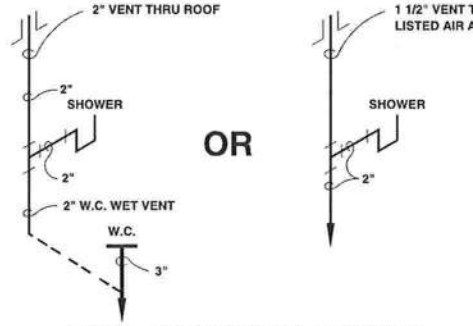
VENT TABLE:

DISTANCE OF FIXTURE TRAP FROM VENT		
SIZE OF TRAP (INCHES)	SLOPE (INCHES PER FOOT)	DISTANCE FROM TRAP (FEET)
1 1/4"	1/4"	5'-0"
1 1/2"	1/4"	6'-0"
2"	1/4"	8'-0"
3"	1/8"	12'-0"
4"	1/8"	16'-0"

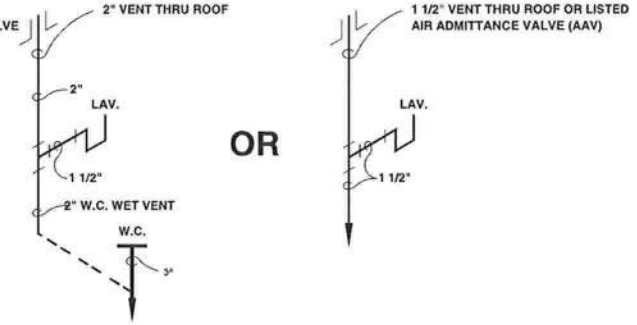
TABLE P3105.1 FROM FLORIDA RESIDENTIAL CODE



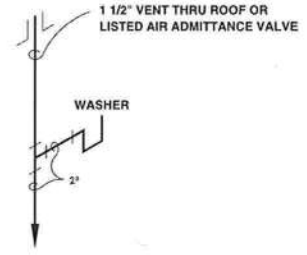
TYP. 3" VENT DETAIL
SCALE: NTS



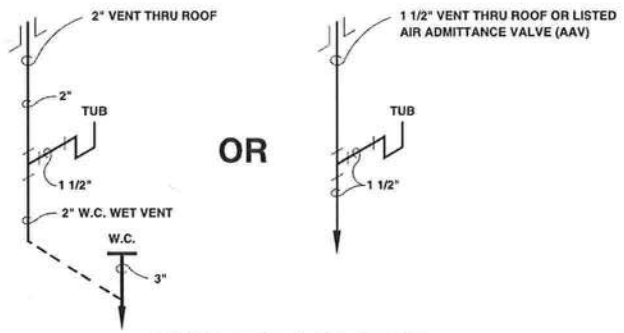
TYP. SHOWER DETAIL
SCALE: NTS



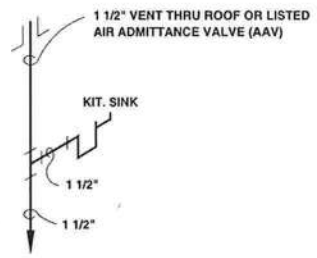
TYP. LAV. DETAIL
SCALE: NTS



TYP. WASHER DETAIL
SCALE: NTS



TYP. TUB DETAIL
SCALE: NTS



TYP. KIT / UTILITY . SINK DETAIL
SCALE: NTS

Sanitary Waste, Drain / Waste / Vent (DWV) DETAILS

This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Sanitary Waste (DWV)

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

#	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

DRAWN BY: C. YOUNG
DATE: 1/29/2021
SCALE: Not Printed To Scale
SHEET: P2

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

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THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.: DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

PLUMBING NOTES:
1. ALL PLUMBING SHALL BE COMPLETED BY A LICENSED PLUMBING CONTRACTOR AND COMPLY WITH ALL STATE AND/OR LOCAL CODES AND INSPECTIONS.
2. ALL "BELOW FLOOR" SANITARY PLUMBING (DRAIN / WASTE / VENT SYSTEM - DWV) SHALL BE COMPLETED BY A LICENSED PLUMBING CONTRACTOR; ON-SITE, BY OTHERS.

FOUNDATION NOTES:
1. THE FOUNDATION DESIGN AND CONSTRUCTION ARE BY OTHERS AND ARE SUBJECT TO ALL STATE AND/OR LOCAL CODES AND INSPECTIONS.
2. A MIN. 6 MIL POLY VAPOR BARRIER IS REQ'D TO COVER THE GROUND BELOW THE ENTIRE BUILDING. A MIN. 12" OVERLAP IS REQUIRED AT ALL SEAMS. ALL HOLES / TEARS / VOIDS IN BOTH THE POLY VAPOR BARRIER & "BOTTOM BOARD" SHALL BE REPAIRED / SEALED.
3. ALL COMBINED VENT. OPENINGS SHALL HAVE A NET FREE AREA OF NOT LESS THAN ONE (1) SQUARE-FEET FOR EACH 150 SQ.FT. OF CRAWL SPACE (AREA BENEATH THE BUILDING). IMPORTANT - THIS REQUIREMENT EXCEEDS THE MIN. VENTILATION OF FRC.
4. ALTERNATE MEANS OF VENTILATION AS ALLOWED BY THE FBC / FRC MAY BE USED, AS LONG AS, THE MIN. VENTILATION REQ'D IN NOTE 3 (ABOVE), IS MAINTAINED (BY OTHERS).

FOUNDATION NOTES (CONT.):
5. WHEN 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 & SYSTEMS RELATING THERETO.

FLOORPLAN NOTES:
1. WHEN ANY DWELLING IS INSTALLED SUCH THAT THE DISTANCE FROM GRADE TO THE BOTTOM OF ABOVE THE INTERIOR FINISHED FLOOR SHALL HAVE WINDOW GUARDS MEETING THE REQUIREMENTS ABOVE THE INTERIOR FINISHED FLOOR SHALL HAVE WINDOW GUARDS MEETING THE REQUIREMENTS SET FORTH IN SECTION 1013.8 OF THE FLORIDA BUILDING CODE (INSTALLED ON-SITE, BY OTHERS).
2. SOME ITEMS SHOWN MAY BE OPTIONAL. SOME ITEMS SHOWN MAY BE SITE INSTALLED, BY OTHERS. SITE INSTALLED ITEMS MAY VARY & ARE NOT COVERED UNDER THESE APPROVED PLANS, BY OTHERS.
3. THIS BUILDING MAY BE MIRRORED (ALONG ANY AXIS) WITHOUT ANY REAPPROVAL OF PLANS.
4. ANY DIMENSIONS SHOWN ARE TO FRAMING ONLY & DO NOT REFLECT EXT. SHEATHING, SIDING, ETC.
5. HITCH MAY BE LOCATED ON EITHER END OF THIS BUILDING WITHOUT ANY REAPPROVAL OF PLANS.
6. MULTIPLE DESIGN WIND SPEEDS ARE SHOWN. THE BUILDING MAY BE BUILT TO ANY WIND SPEED SHOWN.

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION

APPROVED · HILBORN, WERNER, CARTER & ASSOCIATES, INC. · 09-15-2021 HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833

DPS PAL NOW/V-PS

SHEAR WALL ANALYSIS
160 mph - Vult

Wind Speed Vasd (Allowable Stress Design): 123.94 mph - Vasd
Maximum MEAN ROOF HEIGHT (MRH) in feet: 15-feet
Maximum WIND EXPOSURE CATAGORY (WEC): D

ASCE Edition: ASCE 7-16
MAXIMUM Sidewall Height (Inches): 108
Maximum Roof Angle (Degrees): 20°
Maximum Truss Spacing (In. O.C.): 16 - inch o.c.
Internal Pressure Coefficient: GCpi = 0.18 (Enclosed)

SHEAR WALL JOIST ANALYSIS
160 mph - Vult

ON-Frame ONLY
ASCE 7-16

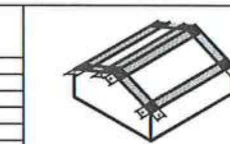
	PERF.					Wall Construction								Strapping		Connections					
Wall ID		Load / Force Information				Minimum Requirements								Choose ONLY One (M or N)		Connection Specifications				Minimum Floor Joist Requirements / Specifications	
	X	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SHEAR WALL NUMBER	DISCR.	Trib.	TOTAL Shear Force	Uplift Force (Racking Load)	Min. PLF Rating (Req'd Design)	PERF. or SEGM. Design (P / S)	Wall Sheath.	Number of Sides Sheath.	Sheath. Fasten. TYPE	Sheath. Fasten. SIZE	Max. Sheath. EDGE Fasten. Spacing (In. O.C.)	Max. Sheath. FIELD Fasten. Spacing (In. O.C.)	Min. Width Framing PANEL SEAMS (Inches)	Num. of SINGLE 20 Ga. Straps (Each)	Simpson Bracket	Fastener TYPE Floor Wall Ceiling	Fastener DIAMTR. Floor Wall Ceiling (Inches)	Fastener LENGTH Floor Wall Ceiling (Inches)	Max. SPACING Floor Wall Ceiling (In. O.C.)	SHEAR WALL JOIST QUANITY	SHEAR WALL JOIST SIZE / TYPE
1	SSW1		4253.12	1249	139	P	7/16	1	Staple	16 ga.	6	3	1.5	2	HDU8-SDS2.5	NAIL	0.131	3.5	8	1	2x8 SP #2
2	SSW2		4253.12	1906	212	P	7/16	1	Staple	16 ga.	4	3	1.5	2	HDU8-SDS2.5	NAIL	0.131	3.5	5.5	1	2x8 SP #2
3	ESW3	30	4912.02	1442	161	P	7/16	1	Staple	16 ga.	6	3	1.5	2	HDU8-SDS2.5	NAIL	0.131	3.5	8	3	2x8 SP #2
4	ESW4	30	4912.02	1442	161	P	7/16	1	Staple	16 ga.	6	3	1.5	2	HDU8-SDS2.5	NAIL	0.131	3.5	8	3	2x8 SP #2
5	NA	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	NA	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	NA	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	NA	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	NA	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	NA	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SHEAR DIAPHRAGM ANALYSIS
ROOF SHEATHING USED AS DIAPHRAGM

ASCE 7-16

MAXIMUM MEAN ROOF HEIGHT = 15-feet
MAXIMUM WIND EXPOSURE CATEGORY = D
MAXIMUM ALLOWABLE ROOF LOAD = 20 psf

	160 mph - Vult
TOP OF BOTTOM CHORD OF TRUSS SHEATHED (Attic Floor)[2] =	No
MAXIMUM O.C. TRUSS SPACING (inches) - See Construction Manual =	16 - inch o.c.
MINIMUM REQUIRED DIAPHRAGM CALCULATED (plf)[3] =	161 - plf
THICKNESS OF ROOF SHEATHING (inches) =	7/16 - inch
MINIMUM REQUIRED FASTENER - TYPE =	Nail
MINIMUM REQUIRED FASTENER - SPEC. =	8d Sinker Nail (0.113 pd Nail)
MINIMUM REQUIRED FASTENER - LENGTH (inches) =	2 - inch
DIAPRAGM BLOCKED / UNBLOCKED =	Unblocked
MAXIMUM O.C. FASTENER SPACING (inches) - Panel Edges[4,5,8] =	SEE SHEATHING FASTENING TABLE LOWER RIGHT
MAXIMUM O.C. FASTENER SPACING (inches) - Field[8] =	SEE SHEATHING FASTENING TABLE LOWER RIGHT
TRUSS FRAMING - SPECIES[6] =	SP - SOUTHERN PINE - FRAMING
ACTUAL MAXIMUM CAPACITY OF SHEATHING (plf)[7] =	252 - plf
SHEAR DIAPHRAGM PASS / FAIL =	PASSES
BLOCKING REQUIRED AT (inches from EACH End Wall) =	NA



GABLE ROOF

a = 4-feet

Interior Zone (Roof Zone 1)
Exterior Zone (Roof Zone 2)
Corner Zone (Roof Zone 3)

SHEAR DIAPHRAGM DESIGN NOTES: 160 mph - Vult

1. Unblocked Roof Sheathing Diaphragm - Use min. 7/16-inch sheathing. Fastening per Sheathing Fastening Table (to right).
2. Top of Bottom Chord NOT Sheathed
3. Wind loads control - Req'd Load NOT increased for seismic control
4. ALL framing at adjoining panel edges (seams) SHALL BE 1 1/2 inch (2 inch nominal) or wider.
5. Roof sheathing diaphragm is UNBLOCKED.
6. SP Framing Used - Diaphragm panels are NOT reduced by 0.82 for SPF lumber.
7. Per tables in ESR-1359.
8. The fastening requirements for BOTH the Shear Diaphragm AND Negative Pressure have been evaluated. In ALL CASES, the worst case fastening is used.

MAX. O.C. TRUSS SPACING 160 mph - Vult = 16 - inches O.C.

SHEATHING FASTENING TABLE:

160 mph - Vult

0.113 pd Nail

ROOF ZONE	EDGE (IN.)	FIELD (IN.)
1 - INTERIOR ZONE	4.25	4
2 - EXTERIOR ZONE	4.25	2.75
3 - CORNER ZONE	4.25	2.25

COLUMN / RIDGE BEAM ANALYSIS / DATA
ASCE 7-16

MAXIMUM COL. STUD LENGTH (inches) = 111-inches
MAXIMUM ALLOWABLE ROOF LOAD (psf) = 20 psf

COL. NUM.	COL. TYPE	COLUMN STUD(S) QTY.	LUMBER	SPECIE / GRADE	ADD BLK.	TOTAL COMBINED SPAN (Left + Right) (in Feet)	160 mph - Vult — COLUMN DATA: Number of 20 GA. STRAP(s)	Column UPLIFT Load (Pounds)	Column GRAVITY Load (Pounds)	RIDGE BEAM DATA: Span LEFT	Span RIGHT	Ridge Beam SIZE(HT.) Span LEFT	Ridge Beam SIZE(HT.) Span RIGHT
1	2 / 2	2 / 2	2x4 / 2x4	SPF #3	N	6.08 / 6.08	2 / 2	5940	3259	-	6.08	NA	2x10
2	2 / 2	2 / 2	2x4 / 2x4	SPF #3	N	6.08 / 6.08	2 / 2	5940	3259	6.08	-	2x10	NA
3	2 / 2	2 / 2	2x4 / 2x4	SPF #3	N	14.33 / 14.33	2 / 2	6858	7681	-	14.33	NA	14
4	2 / 2	2 / 2	2x4 / 2x4	SPF #3	N	14.33 / 14.33	2 / 2	6858	7681	14.33	-	14	NA
5	2 / 2	2 / 2	2x4 / 2x4	SPF #3	N	5.16 / 5.16	2 / 2	5940	2766	-	5.16	NA	2x8
6	2 / 2	2 / 2	2x4 / 2x4	SPF #3	N	5.16 / 5.16	2 / 2	5940	2766	5.16	-	2x8	NA
7	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
8	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
9	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
10	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
11	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
12	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
13	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
14	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
15	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
16	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
17	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA
18	NA / NA	- / -	- / -	-	-	- / -	- / -	-	-	-	-	NA	NA

* UNLESS OTHERWISE SPECIFICALLY STATED ON THE PLAN, FOUNDATION SUPPORT AND ANCHORING ARE REQUIRED DIRECTLY BELOW ALL COLUMN LOCATIONS.

This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Structural Design Tables

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.: DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

STRUCTURAL COMPONENT ANALYSIS
SHEAR WALL / DIAPHRAGM / COLUMN / RIDGE BEAM

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION

APPROVED
09-15-2021
HWC
HILBORN, WERNER, CARTER & ASSOCIATES INC.

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	S1

DESIGN WIND SPEED - Vult: 160 mph - Vult
DESIGN WIND SPEED - Vasd: 123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.: D
MAXIMUM MEAN ROOF HEIGHT: 15
BUILDING (RISK) CATEGORY (I - IV): II
ASCE EDITION / VERSION: ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches): 108
MODEL: MICP-3833

X-PS MPAM

SITE COMPLETION REQUIRED:

1. ALL REQUIRED STEPS, RAILS, RAMPS, ETC. ARE INSTALLED ON-SITE, BY OTHERS.
2. ANY EXTERIOR WORK COMPLETED ON THE EXTERIOR, AFTER HOME INSTALLATION, IS SUBJECT TO ALL LOCAL CODES AND INSPECTIONS. BY OTHERS.
3. ENGINEERING FOR ALL SITE ITEMS ARE BY OTHERS, NOT JACOBSEN HOMES.
4. ALL ITEMS RELATING TO ACCESSIBILTY TO THE BUILDING SHALL BE DESIGNED AND INSTALLED BY OTHERS (NOT JACOBSEN HOMES) AND ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION (LAHJ).
5. ALL ITEMS RELATING TO THE FOUNDATION / ANCHORING SYSTEM SHALL BE DESIGNED AND INSTALLED BY OTHERS (NOT JACOBSEN HOMES) AND ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION (LAHJ).

MAXIMUM CALCULATED ROOF ANGLE: 20° (IN DECIMAL DEGREES)

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MAX. O.C. TRUSS SPACING 160 mph - Vult = 16 - inches O.C.

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.

SHINGLE ROOF (TYP.)
FIBERGLASS SHINGLES:
EXTERNAL FIRE - CLASS A;
ASTM D3018;
ASTM D3462;
CSA 123.5-98;
ASTM D3161, CLASS F;
ASTM D7158, CLASS H;
NYC MEA 130-83-M

LOOK

Piers SHALL BE installed below EACH END of EACH I-BEAM Header below ALL END WALLS.
Piers SHALL BE installed below EACH END of EACH shear wall segment for all other shear walls.

STD. WINDOW OPENING
7'-1 1/2" TYPICAL

ROOF TRUSS DICLAIMER: 30'-8" WIDE HOMES
NOMINAL 3 / 12 = 2.12 / 12
NOMINAL 4 / 12 = 2.52 / 12
NOMINAL 5 / 12 = 4.35 / 12

ROOF TRUSS DICLAIMER: 26'-8" WIDE HOMES
NOMINAL 3 / 12 = 2.45 / 12
NOMINAL 4 / 12 = 2.91 / 12
NOMINAL 5 / 12 = 4.35 / 12

FOR OTHER HOME WIDTHS - SEE SALES PERSON

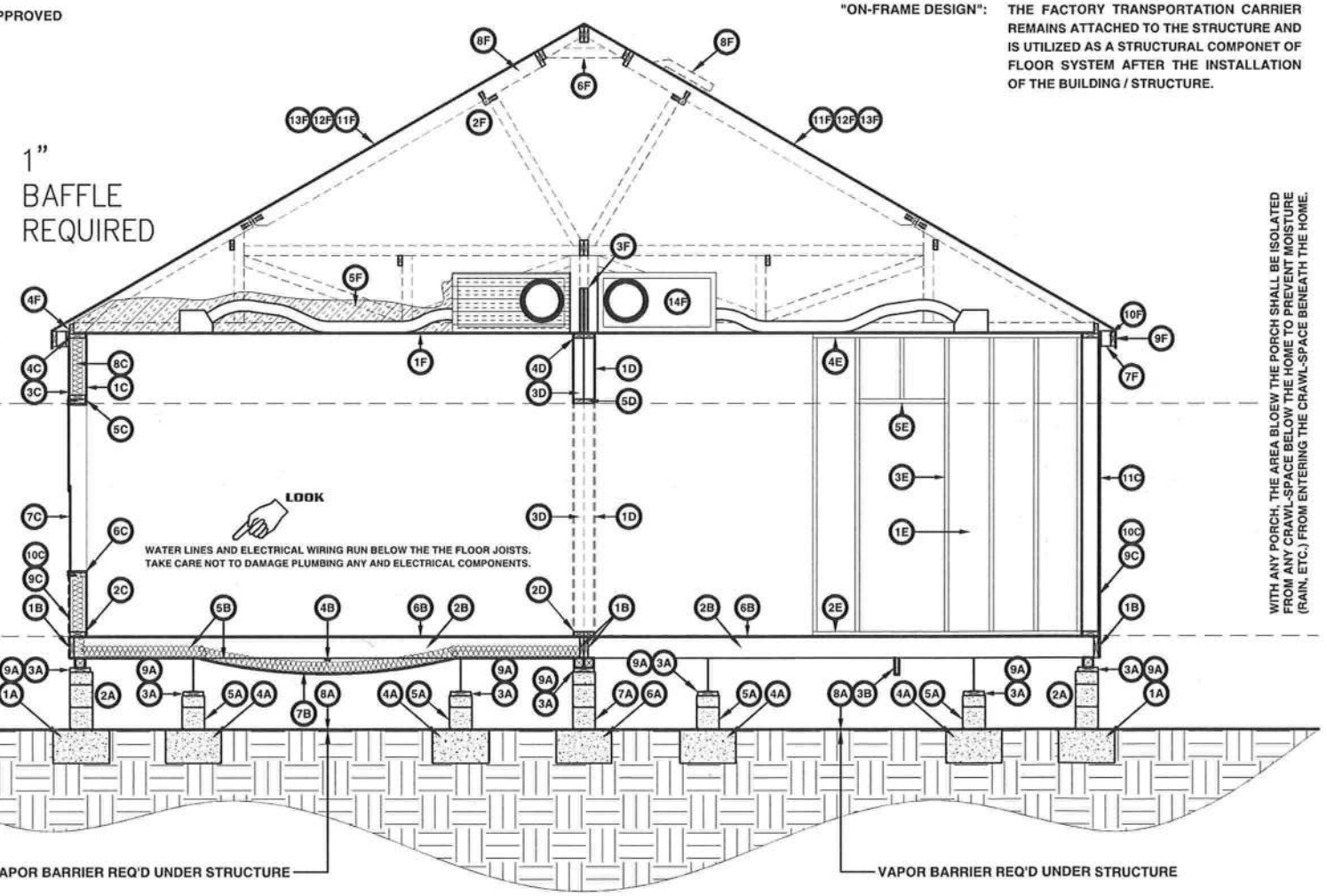
FLOOR LEVEL 0'-0"

GRADE
DETERMINED BY BUILDING ELEV. (ON-SITE, BY OTHERS)

18" MIN.

1" BAFFLE REQUIRED

LOOK
WATER LINES AND ELECTRICAL WIRING RUN BELOW THE THE FLOOR JOISTS. TAKE CARE NOT TO DAMAGE PLUMBING ANY AND ELECTRICAL COMPONENTS.



VAPOR BARRIER REQ'D UNDER STRUCTURE

VAPOR BARRIER REQ'D UNDER STRUCTURE

"ON-FRAME DESIGN": THE FACTORY TRANSPORTATION CARRIER REMAINS ATTACHED TO THE STRUCTURE AND IS UTILIZED AS A STRUCTURAL COMPONET OF FLOOR SYSTEM AFTER THE INSTALLATION OF THE BUILDING / STRUCTURE.

WITH ANY PORCH, THE AREA BLOW THE PORCH SHALL BE ISOLATED FROM ANY CRAWL SPACE BELOW THE HOME TO PREVENT MOISTURE (RAIN, ETC.) FROM ENTERING THE CRAWL-SPACE BENEATH THE HOME.

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

TYP. CROSS-SECTION (ON-FRAME)

FOR SPECIFIC INFORMATION NOT COVERED IN THESE APPROVED PLANS, REFER TO THE APPROVED CONSTRUCTION MANUAL.

CROSS-SECTION DESCRIPTIONS:

TYPICAL FOUNDATION / ANCHORING SYSTEM (by others):

1A Side Wall Footer (designed and constructed by others):
UNLESS OTHERWISE PROPERLY SUBSTANTIATED BY ENGINEERING CALCULATIONS, ALL footers shall be concrete and have MINIMUM dimensions of 20" x 12"
Other footer types, sizes, materials, etc. may be utilized when supported by calculations.
ALL foundations SHALL be calculated by a Registered Professional Engineer or Architect.

2A Side Wall Foundation Wall or Pier (designed and constructed by others):
Joist hangers ARE NOT installed at the factory. Therefore, the foundation system shall provide a MINIMUM of 1 1/2" BEARING / support for ALL floor joist / rail connections.
A MINIMUM of 1 square-foot of ventilation SHALL BE PROVIDED for every 300 square-foot of AREA (Living Space); REGARDLESS of ANY Codes OR Regulations ALLOWING less Ventilation.
Supports SHALL NOT be spaced more than 64" o.c MAXIMUM Spacing.
A MINIMUM 4x4 P.T. BEAM IS REQUIRED BELOW THE ENTIRE PERIMETER (SIDE AND MATING-LINE).

3A Pressure treated sill plate or pier cap AND shims to insure tight connection (by others).

4A I-BEAM Footer (designed and constructed by others):
UNLESS OTHERWISE PROPERLY SUBSTANTIATED BY ENGINEERING CALCULATIONS, ALL footers shall be concrete and have MINIMUM dimensions of 20" x 12"
Other footer types, sizes, materials, etc. may be utilized when supported by calculations.
ALL foundations SHALL be calculated by a Registered Professional Engineer or Architect.

5A I-BEAM Foundation Wall or Pier (designed and constructed by others):
When PIERS are installed, the MAXIMUM pier spacing SHALL NOT EXCEED 10'-0" o.c. When a Foundation Wall is installed, OPENING SHALL BE provided to allow ventilation between sections; Any such openings SHALL NOT EXCEED 10'-0".

6A Mating-Line Footer (designed and constructed by others):
UNLESS OTHERWISE PROPERLY SUBSTANTIATED BY ENGINEERING CALCULATIONS, ALL footers shall be concrete and have MINIMUM dimensions of 20" x 12"
Other footer types, sizes, materials, etc. may be utilized when supported by calculations.
ALL foundations SHALL be calculated by a Registered Professional Engineer or Architect.

7A Mating-Line Foundation Wall or Pier (designed and constructed by others):
Joist hangers ARE NOT installed at the factory. Therefore, the foundation system shall provide a MINIMUM of 1 1/2" BEARING / support for ALL floor joist / rail connections.
Supports / Anchors shall be provided DIRECTLY BELOW ALL column locations.
Supports SHALL NOT be spaced more than 64" o.c MAXIMUM Spacing.
A MINIMUM 4x4 P.T. BEAM IS REQUIRED BELOW THE ENTIRE PERIMETER (SIDE AND MATING-LINE).

8A A MINIMUM 6-mil poly VAPOR BARRIER is REQUIRED to cover all soil BELOW the structure. ALL seams shall be overlapped AND taped / SEALED. ALL holes / tears SHALL BE SEALED. BARRIER is REQUIRED; REGARDLESS of ANY Codes OR Regulations ALLOWING NO BARRIER.

9A TERMITE SHIELD - NOT SHOWN ON CROSS-SECTION (by others):
IS REQUIRED BETWEEN THE FOUNDATION AND ANY COMPONENT OF THE STRUCTURE.

10A PERMANENT FOUNDATION SYSTEM (by others):
Foundation / Anchoring System shall comply with ALL State AND Local Codes / Requirements AND SHALL MEET the definition of a PERMANENT FOUNDATION as defined by the LAHJ.
Foundation / Anchoring System SHALL BE designed, constructed and CAPABLE of transferring ALL Loads shown WITHIN this APPROVED package. The Foundation System SHALL NOT transfer and / or otherwise INDUCE ANY LOADS ONTO OR THROUGH THE BULDING / Structure.

TYPICAL FLOOR SYSTEM:

1B Single Perimeter Rail / Joist OR Rim Joist (Joist Hanger is NOT provided at connection).
2B Floor Joist; 2x8 SPF #2, Equal OR Better at 16" o.c. (per APPROVED Construction Manual), ALL Floor Widths.
3B Sanitary Waste; Drain / Waste / Vent (DWV);
Listed PVC or ABS piping configured per details contained within this APPROVED package.
4B Potable Water Suppy System;
Listed "PEX" water lines, configured per details contained within this APPROVED package.
5B Floor Insulation; Per APPROVED Calculations or Perscriptive Requirements.
6B Floor Sheathing (Decking); 19/32" Minimum T&G "Sturdi-Floor" or TECO Rated Sheathing.
7B Bottom Board / Moisture Barrier;
ALL holes OR tears in the bottom board material SHALL BE SEALED.
8B ACCESS: Stairs OR Ramps;
ALL Stairs OR Ramps SHALL BE designed and installed by others - Subject to LAHJ.

TYPICAL EXTERIOR WALL:

1C 1/2" MINIMUM Gypsum Panel.
2C MINIMUM 2x6 Bottom Plate.
3C MINIMUM 2x6 Wall Stud.
4C MINIMUM SINGLE 2x6 Top Plate (when studs and trusses ALIGN per MANUAL).
5C Typical Header
6C Typical Sill Plate (below opening).
7C Typical Window or Door (Florida Product Approval is on file with Approval Agency).
8C Wall Insulation; Per APPROVED Calculations or Perscriptive Requirements.
Vapor Barrier; Provided by Kraft Backed Insulation in wall cavity.
9C Minimum 7/16" Rated Sheathing (Exterior of wall).
10C Listed House Wrap and TAPE as required by siding listing and instructions.
11C Listed Exterior Wall Covering / Material.

TYPICAL MATING-LINE WALL:

1D 1/2" MINIMUM Gypsum Panel.
2D MINIMUM 2x4 Bottom Plate.
3D MINIMUM 2x4 Wall Stud.
4D MINIMUM SINGLE 2x4 Top Plate (when studs and trusses ALIGN per MANUAL).
5D Typical Header (Non-Load Bearing - Bearing Provided in Roof).

TYPICAL INTERIOR WALL:

1E 1/2" MINIMUM Gypsum Panel.
2E MINIMUM 2x4 Bottom Plate.
3E MINIMUM 2x4 Wall Stud.
4E MINIMUM SINGLE 2x4 Top Plate (when studs and trusses ALIGN per MANUAL).
5E Typical Header (Non-Load Bearing).

TYPICAL ROOF SYSTEM:

1F 1/2" MINIMUM High Strength Gypsum Panel (Sprayed-On Vapor Barrier).
2F Listed / Engineered Trusses (Spacing per Engineered Design / Wind Speed / Exposure). MAXIMUM Roof Angle and Truss Spacing(s) are shown ABOVE the Typical Cross Section.
* Hinged truss shown in the cross-section, but other non-hinged trusses may be installed.
3F LVL or other Approved Ridge Beam (Required over OPEN SPANS ONLY).
4F Single 2x Truss Perimeter Rail / Rim Rail.
5F Roof Insulation; Per APPROVED Calculations or Perscriptive Requirements.
6F Cap / KEY Truss OR Framing (Hinged Roof Systems ONLY).
7F Lower Roof Ventilation (typically provided by eave, but vents on roof may also be used).
8F Upper Roof Ventilation (typically provided by eave, but vents on roof may also be used).
9F MINIMUM 1x Sub-Fascia.
10F "ADD-ON" Eaves; Per Construction Manual.
11F MINIMUM 7/16" RATED SHEATHING - Roof Sheathing / Decking.
MINIMUM 1/2" PLYWOOD SHEATHING REQUIRED WITH METAL ROOF.
12F Roof Underlayment; Installed per Section R905 of the: 2020 FRC, 7th EDITION
13F Listed Roof Covering.
14F Listed HVAC Duct System.

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Stor 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

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HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

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JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER
2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Cross-Section (On-Frame)

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
0		
1		
2		
3		
4		
5		

RESIDENTIAL (MOD.) PACKAGE
Cross-Section (On-Frame)

PIER / ANCHOR REQUIRED BELOW COLUMNS

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE
7th EDITION

APPROVED • HILBORN, WERNER, CARTER & ASSOCIATES, INC. •
09-15-2021
HWC

THE APPROVAL SHOWN ABOVE, INDICATES THAT ONLY THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida	
BUILDING:	2020 FRC	7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC	7th EDITION
PLUMB.:	2020 FRC	7th EDITION
ENERGY:	2020 FRC	7th EDITION
ELECT.:	2017 N.E.C.	

COMPLIES WITH THE 2020FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	S2

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833

MFAO

ON-Frame

160

Shear Wall Number	Wall ID: X DESCR.	Load / Force Information: B TOTAL Shear Force	C Uplift Force (Racking Load)	D Min. PLF Rating (Req'd Design)
1	SSW1	4253.12	1249	139
2	SSW2	4253.12	1906	212
3	ESW3	4912.02	1442	161
4	ESW4	4912.02	1442	161
5	NA	-	0	0
6	NA	-	0	0
7	NA	-	0	0
8	NA	-	0	0
9	NA	-	0	0
10	NA	-	0	0

160

NUMBER	I UPLIFT LOAD (Pounds)	J MIN. COLUMN PIER Capacity (Pounds)	NUMBER	I UPLIFT LOAD (Pounds)	J MIN. COLUMN PIER Capacity (Pounds)
1	5940	3259	13	-	-
2	5940	3259	14	-	-
3	6858	7681	15	-	-
4	6858	7681	16	-	-
5	5940	2766	17	-	-
6	5940	2766	18	-	-
7	-	-	19	-	-
8	-	-	20	-	-
9	-	-	21	-	-
10	-	-	22	-	-
11	-	-	23	-	-
12	-	-	24	-	-

SHEAR WALL LOAD INFORMATION - ALSO REFER TO SHEAR WALL TABLES
COLUMN / PIER - LOAD INFORMATION - ALSO REFER TO COLUMN TABLES

PIER REQUIRED BELOW EACH SYMBOL (#)

PIER REQUIRED BELOW EACH SYMBOL [#]

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

TYPICAL FOUNDATION / ANCHORING SYSTEM (by others):

1A Side Wall Footer (designed and constructed by others);
UNLESS OTHERWISE PROPERLY SUBSTANTIATED BY ENGINEERING CALCULATIONS,
ALL footers shall be concrete and have MINIMUM dimensions of 20" x 12"
Other footer types, sizes, materials, etc. may be utilized when supported by calculations.
ALL foundations SHALL be calculated by a Registered Professional Engineer or Architect.

2A Side Wall Foundation Wall or Pier (designed and constructed by others);
Joist hangers ARE NOT installed at the factory. Therefore, the foundation system shall provide a MINIMUM of 1 1/2" BEARING / support for ALL floor joist / rail connections.
A MINIMUM of 1 square-foot of ventilation SHALL BE PROVIDED for every 300 square-foot of AREA (Living Space); REGARDLESS of ANY Codes OR Regulations ALLOWING less Ventilation.
Supports SHALL NOT be spaced more than 84" o.c MAXIMUM Spacing.
A MINIMUM 4x4 P.T. BEAM IS REQUIRED BELOW THE ENTIRE PERIMETER (SIDE AND MATING-LINE).

3A Pressure treated sill plate or pier cap AND shims to insure tight connection (by others).

4A I-BEAM Footer (designed and constructed by others);
UNLESS OTHERWISE PROPERLY SUBSTANTIATED BY ENGINEERING CALCULATIONS,
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5A I-BEAM Foundation Wall or Pier (designed and constructed by others);
When PIERS are installed, the MAXIMUM pier spacing SHALL NOT EXCEED 10'-0" o.c. When a Foundation Wall is installed, OPENING SHALL BE provided to allow ventilation between sections; Any such openings SHALL NOT EXCEED 10'-0".

6A Mating-Line Footer (designed and constructed by others);
UNLESS OTHERWISE PROPERLY SUBSTANTIATED BY ENGINEERING CALCULATIONS,
ALL footers shall be concrete and have MINIMUM dimensions of 20" x 12"
Other footer types, sizes, materials, etc. may be utilized when supported by calculations.
ALL foundations SHALL be calculated by a Registered Professional Engineer or Architect.

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Supports / Anchors shall be provided DIRECTLY BELOW ALL column locations.
Supports SHALL NOT be spaced more than 64" o.c MAXIMUM Spacing.
A MINIMUM 4x4 P.T. BEAM IS REQUIRED BELOW THE ENTIRE PERIMETER (SIDE AND MATING-LINE).

8A A MINIMUM 6-mil poly VAPOR BARRIER is REQUIRED to cover all soil BELOW the structure.
ALL seams shall be overlapped AND taped / SEALED. ALL holes / tears SHALL BE SEALED.
BARRIER is REQUIRED; REGARDLESS of ANY Codes OR Regulations ALLOWING NO BARRIER.

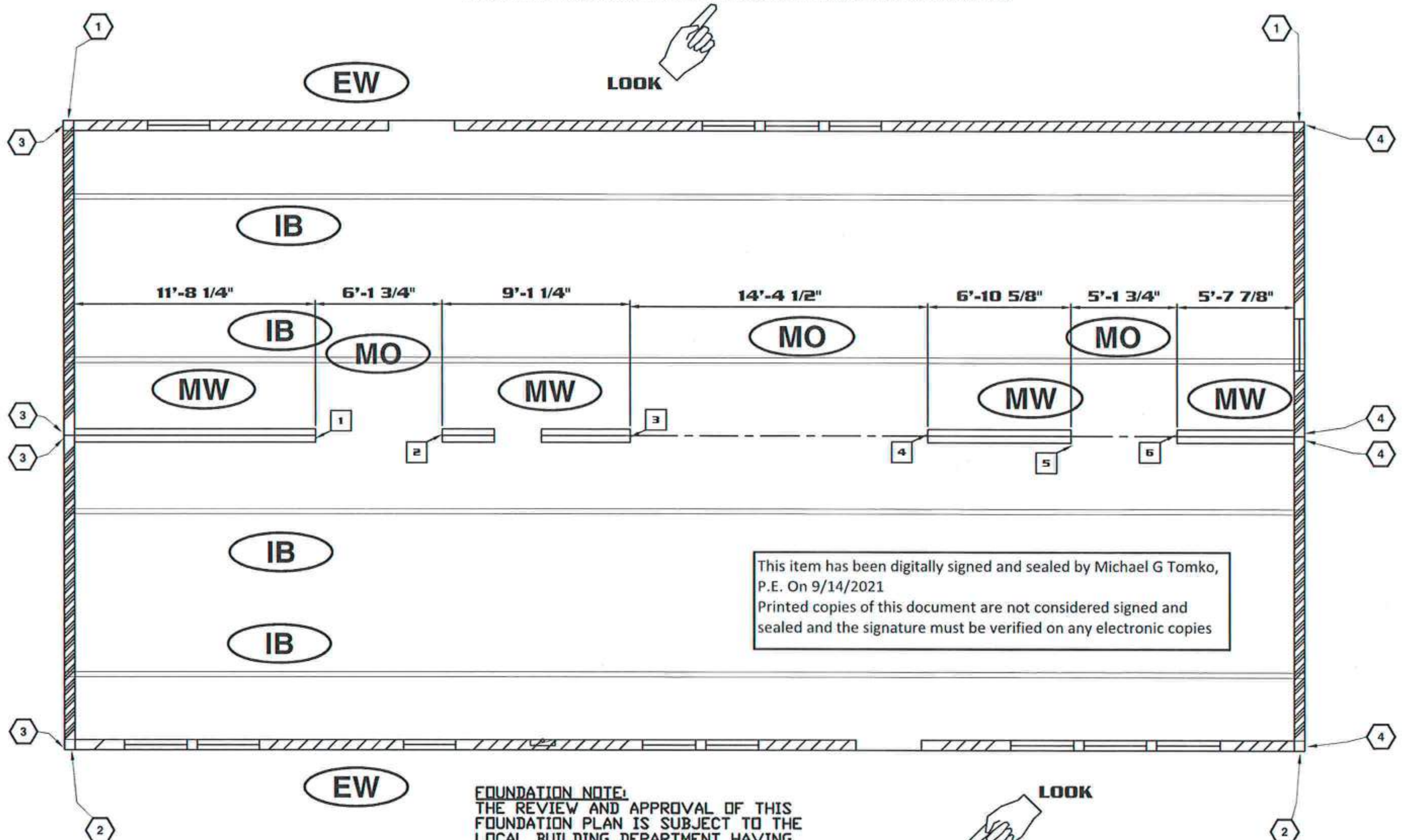
9A TERMITE SHIELD - NOT SHOWN ON CROSS-SECTION (by others);
IS REQUIRED BETWEEN THE FOUNDATION AND ANY COMPONENT OF THE STRUCTURE.

10A PERMANENT FOUNDATION SYSTEM (by others);
Foundation / Anchoring System shall comply with ALL State AND Local Codes / Requirements AND SHALL MEET the definition of a PERMANENT FOUNDATION as defined by the LAHJ.
Foundation / Anchoring System SHALL BE designed, constructed and CAPABLE of transferring ALL Loads shown WITHIN this APPROVED package. The Foundation System SHALL NOT transfer and / or otherwise INDUCE ANY LOADS ONTO OR THROUGH THE BULDING / Structure.

ON-Frame

** DO NOT CUT OR NOTCH FLOOR JOIST(S) DURING INSTALLATION **

Piers SHALL BE installed below EACH END of EACH I-BEAM Header below ALL END WALLS.
Piers SHALL BE installed below EACH END of EACH shear wall segment for all other shear walls.



This item has been digitally signed and sealed by Michael G Tomko, P.E. On 9/14/2021
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

FOUNDATION NOTE:
THE REVIEW AND APPROVAL OF THIS FOUNDATION PLAN IS SUBJECT TO THE LOCAL BUILDING DEPARTMENT HAVING JURISDICTION.

WATER LINES AND ELECTRICAL WIRING RUN BELOW THE THE FLOOR JOISTS.
TAKE CARE NOT TO DAMAGE PLUMBING ANY AND ELECTRICAL COMPONENTS.

A SINGLE PIER MAY SUPPORT MULTIPLE ITEMS WHEN SUBSTANTIATED BY ENGINEERING CALCULATIONS AND DESIGN.

(#) PIER REQUIRED BELOW EACH SYMBOL
[#] PIER REQUIRED BELOW EACH SYMBOL

IN ALL CASES, A PIER IS REQUIRED TO BE INSTALLED DIRECTLY BELOW ALL COLUMN LOCATIONS, BELOW EACH END OF A PERFORATED SHEAR WALL, BELOW THE END OF EACH SHEAR WALL SEGMENT (WITH SEGMENTED SHEARWALLS ONLY), AND BELOW ALL CORNERS OF EACH FLOOR SECTION. ALL CORNERS OF A PORCH, RECESSED ENTRY, AND / OR ANY BAYS SHALL BE SUPPORTED BY THE FOUNDATION AND SHALL NEVER BE CANTILEVERED.

WITH ANY PORCH, THE AREA BLOEW THE PORCH SHALL BE ISOLATED FROM ANY CRAWL-SPACE BELOW THE HOME TO PREVENT MOISTURE (RAIN, ETC.) FROM ENTERING THE CRAWL-SPACE BENEATH THE HOME.

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION AND / OR INSTALLATION ON A SITE-BUILT, PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.

JACOBSEN HOMES CERTIFIES THAT THIS MANUFACTURED (MOD.) BUILDING HAS BEEN EXCLUDED FROM THE REGULATION OF THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT (HUD).

THIS STRUCTURE HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ - I.E.: DADE COUNTY, FL OR BROWARD COUNTY, FL).

ANY ATTACHMENT(S) TO THIS STRUCTURE SHALL BE COMPLETELY AND TOTALLY SELF-SUPPORTING AND SHALL NEVER TRANSFER AND / OR INDUCE ANY LOADS AND / OR ANY OTHER FORCES ONTO OR THROUGH THIS BUILDING / STRUCTURE.

Symbol / Description	160 mph - Vult: Uplift (plf)	Gravity (plf)	Add'l Req'd Load (plf): 160
EW Exterior Wall	455	433	
MO Mating-Line Opening	NA	180	
MW Mating-Line Wall	756	796	680 Add'l Lateral Load Base of ALL Ext. Walls
PO Porch SIDE WALL	NA	NA	
RE Recessed Entry	NA	NA	
X Misc. Other Load	NA	NA	
IB Main I-Beam	NA	630	

AREA RESERVED FOR LISTING AGENCY APPROVAL STAMPS:
2020 FLORIDA RESIDENTIAL CODE,
7th EDITION

THE APPROVAL SHOWN ABOVE, INDICATES THAT REVIEW OF THE PLANS AND ALL SPECIFICATIONS CONTAINED WITHIN THIS DRAWING PACKAGE ARE IN COMPLIANCE WITH ALL CODES REFERENCED.

PLAN SPEC'S AND LISTING AGENCY APPROVAL

THIS DRAWING PACKAGE COMPLIES WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 AND ADHERES TO THE FOLLOWING CRITERIA:

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

CONSTRUCTION TYPE	V-B
OCCUPANCY	SFD
TOTAL NUMBER OF STORIES:	Single Story 1
WIND VELOCITY (mph) Vult (Ultimate)	160
WIND VELOCITY (mph) Vasd (Allowable Stress)	123.94
FIRE RATING OF EXTERIOR WALLS	0 hr.
ALLOWABLE FLOOR LOAD	40 psf
ALLOWABLE ROOF LOAD	20 psf
SEISMIC LOAD	0% g
MANUFACTURER	Jacobsen Homes
HIGH VELOCITY HURRICANE ZONE	NO

PLAN NO.:
2540-0802 (MICP-3833)

PLANS COMPLY WITH RULE 61-G20-3 FOR PRODUCT APPROVAL AND WITH THE STATE OF FLORIDA STATUTE 553.842

RAISED SEAL, OR DIGITALLY SEALED, SET OF BUILDING PLANS ARE ON FILE IN THE THIRD PARTY LISTING AGENCY'S OFFICE AS DIRECTED BY FLORIDA DBPR.

THE MANUFACTURER'S DATA SHEET AND THE STATE (DBPR) INSIGNIA, SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL (COVER).

HWC
HWC Engineering, Inc.
1627 South Myrtle Ave.
Clearwater, FL 33576
(727) 584-8151

**NOTICE:
SECTION 553.80(1)(d), FS, SPECIFICALLY EXEMPTS STATE APPROVED MANUFACTURED (MODULAR) BUILDINGS, BEARING THE DBPR INSIGNIA, FROM FURTHER PLAN REVIEW BY LOCAL CODE ENFORCING AGENCIES. THE INSIGNIA ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION (DBPR) ATTESTS THAT THESE PLANS HAVE BEEN REVIEWED AND THE BUILDING HAS BEEN INSPECTED BY A STATE APPROVED 3rd PARTY AGENCY & FOUND COMPLIANT WITH ALL REFERENCED CODES.

RESIDENTIAL PACKAGE CODE SUMMARY

STATE:	STATE OF Florida
BUILDING:	2020 FRC 7th EDITION 2021 SUPPLEMENTS
MECH.:	2020 FRC 7th EDITION
PLUMB.:	2020 FRC 7th EDITION
ENERGY:	2020 FRC 7th EDITION
ELECT.:	2017 N.E.C.

COMPLIES WITH THE 2020FIRE PREVENTION CODE

THIS BUILDING IS NOT A HUD BUILDING

JACOBSEN HOMES
600 Packard Court,
Safety Harbor, FL 34695
727-726-1138

P.E. SEAL:
MICHAEL G TOMKO LICENSE No 63802 STATE OF FLORIDA PROFESSIONAL ENGINEER

2020 FLORIDA RESIDENTIAL CODE, 7th EDITION

Michael TOMKO P.E.
Florida License No: 63802
4703 Chester Drive
Elkhart, IN 46516
(574) 264-0745

Florida
2540-0802 (MICP-3833)
Foundation Loads (On-Frame)

WHEN THE FOUNDATION SYSTEMS ARE DESIGNED OR CONSTRUCTED BY OTHERS, JACOBSEN HOMES AND ITS 3rd 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 OR CONSTRUCTION AND/OR CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURES STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

REVISION SCHEDULE:

	REVISION BY:	REVISION DATE:
1		
2		
3		
4		
5		
6		

DRAWN BY:	C. YOUNG
DATE:	1/29/2021
SCALE:	Not Printed To Scale
SHEET:	X1

DESIGN WIND SPEED - Vult:	160 mph - Vult
DESIGN WIND SPEED - Vasd:	123.94 mph - Vasd
MAXIMUM WIND EXPOSURE CAT.:	D
MAXIMUM MEAN ROOF HEIGHT:	15
BUILDING (RISK) CATEGORY (I - IV):	II
ASCE EDITION / VERSION:	ASCE 7-16
MAXIMUM SIDEWALL HEIGHT (Inches):	108
MODEL:	MICP-3833
PLAN NUMBER:	2540-0802 (MICP-3833)

X-PS MPAR SWCOL_FND_ON

Florida dbpr Department of Business & Professional Regulation

FLA Manufactured Building Program
2601 Blair Stone Road
Tallahassee, Florida 32399-0772
Phone: 850.487.1824 • Fax: 850.414.8436

Halsey Beshears, Secretary

Ron DeSantis, Governor

September 12, 2019

DONNIE HULL

Jacobsen Homes
Post Office Box 368
Safety Harbor, FL 34695

RE: Manufacturer Certification, ID MFT-68; Expiration Date: September 10, 2022

Dear DONNIE HULL

It is my pleasure to inform you that Jacobsen Homes, located at 600 Packard Crt, Safety Harbor, FL 34695, has been approved under the Manufactured Buildings Program, as provided for under Chapter 553, Part I, Florida Statutes, to manufacture Factory Built Schools, Manufactured Buildings for installation in Florida.

Construction or modification on a manufactured building cannot begin until the Third Party Agency has approved the plans in accordance with the current Florida Building Code. Your Third Party Agency is a contractor for the Department and has statutory authority and responsibilities that must be met to maintain approved status. You may expect and demand quality plans review and inspections.

Each Code change will make your plans obsolete until they have been reviewed, approved and indicated [on the cover page of the plans] for compliance with the Code by your Third Party Agency for plans review. Please ensure that your plans are in compliance and are properly posted on our website. All site-related installation issues are subject to the local authority having jurisdiction.

The Department's contractor will make unannounced monitoring visits at least once each year. You must grant complete access to your manufacturing facility and records to remain in compliance with the rules and regulations of this program.

Your certification is approved for three years from this date. You will receive a renewal notice by Email generated by the BCIS (www.floridabuilding.org) for online renewal. If you have questions you may contact Robert Lorenzo at 850-717-1835 or our FAX at 850-414-8436.

Please visit our website at www.floridabuilding.org to see valuable information on the Florida Manufactured Buildings Program. A copy of this letter must accompany applications for local building permits.

Sincerely,

Robert Lorenzo
Manufactured Buildings Program

cc: Hilborn Werner Carter And Assoc., Inc.

Category/ Subcategory	Manufacturer	Product Description	FL Product Approval Number(s)
1. Exterior Doors			
Swinging	Dunbarton Corp.	2 Panel In-swing or Outswing - IMPACT	FL 15341-R8
Swinging	Dunbarton Corp.	6 Panel In-swing or Outswing - IMPACT	FL 15341-R8
Swinging	Dunbarton Corp.	Single or Double - Outswing - IMPACT	FL 15341-R8
Swinging	Dunbarton Corp.	In-swing Exterior Door - Solid	FL 15362-R3
Swinging	Dunbarton Corp.	In-swing Exterior Door - Oval	FL 15362-R3
Swinging	Dunbarton Corp.	In-swing Exterior Door - 9 Lite	FL 15362-R3
Swinging	Dunbarton Corp.	Patio Door	FL 15362-R3
Sliding	Shwinco Architectural	Sliding Glass Door - Exterior	FL 12519-R6
Sliding			
French (Single)	Custom Windows, Inc.	8700-SD Single French - IMPACT	FL 14850-R4
French (Double)	Custom Windows, Inc.	8750-FD Double French - IMPACT	FL 14850-R4
2. Windows			
Single Hung	Shwinco Architectural	Series 9000 Tilt Single Hung-IMPACT (-100)	FL 8153-R10
Single Hung	Custom Windows, Inc	8100 - SH IMPACT Resistant - Low E (-100)	FL 5823-R9
Single Hung	Shwinco Architectural	Series 9000 Tilt Single Hung-IMPACT (-70)	FL 8153-R10
Single Hung	Custom Windows, Inc.	8100 - SH IMPACT Resistant - Low E (-70)	FL 5823-R9
Single Hung	Kinro, Inc.	9750 Series - Insulated - Low E	FL 993-R17
Fixed	Hy-Lite Products, Inc.	Acrylic Block Window - 6" BLOCK	FL 185-R11
Fixed	Hy-Lite Products, Inc.	Acrylic Block Window - 8" BLOCK	FL 185-R11

Category/ Subcategory	Manufacturer	Product Description	FL Product Approval Number(s)
3.			
Siding	James Hardie	Siding (5/8" Sheathing Req'd)	FL 10477-R8
Siding	James Hardie	CEMPLANK Siding	FL 13192-R6
Siding	Nichiha USA, Inc.	Cement Siding (5/8" Sheathing Req'd)	FL 12098-R9
Siding	Style Crest	Vinyl Siding	FL 12231-R5
Siding	PLY GEM	Siding	FL 35331
Soffits	James Hardie	Hardie Soffit Panels	FL 13265-R5
Soffits	PLY GEM	SOFFITS	FL 33178
Soffits	GP Soffit		
4. Roofing Products			
Asphalt Shingles	Tamko Building Products	Asphalt Shingles	FL 18355-R6

Category/ Subcategory	Manufacturer	Product Description	FL Product Approval Number(s)
Asphalt Shingles	GAF	Asphalt Shingles	FL 10124-R29
Asphalt Shingles	Owens Corning	Asphalt Shingles	FL 10674-R16
Underlayment	Woodland Industries	15LB Felt	FL 17206-R6
Underlayment	Tamko Building Products	Underlayment	FL 12328-R9
Underlayment	MFM BUILDING PRODUCTS	Underlayment	FL 11842-R8
	HENRY EAVEGUARD		FL 16724-R7
Cements/Coatings			
Cements/Coatings	Certainteed Corp.	Roof Cement	FL 490-R11
Metal Roofing	Advanced Aluminum	Advantage Panel - 26 Ga.	FL 1763-R4
Metal Roofing	TAMCO	26 Ga. Metal Roof Panels	FL 16667-R5
Tubular Skylight	Sun-Tek	Tube (self flashing) 10", 14" or 21"	FL 13488-R7
5. Structural Comp.			
Wood Connectors	AMS -GROUP	COIL STRAP	Local Approval
Wood Connectors	MASTER CRAFT	Metal Strap	REPORT A190019
Wood Connectors	MASTER CRAFT	Metal Strap	REPORT A131394
Engineered Lumber	MURPHY	ENGINEERED BEAM	FL 18993-R2

CONSTELLATION TECHNOLOGY
Measurement • Analysis • Solution

Analytical Services Laboratory
7887 Bryan Dairy Road, Suite 100
Largo, Florida 33777-1452
Telephone 727.547.0600 Toll Free 800.335.7355
Fax 727.545.6043
http://www.contech.com

Test Report – A210369

Client: HWC & Associates
Hilborn,Werner, Carter & Assoc., Inc
1627 South Myrtle Avenue
Clearwater, FL 33756

Contact: Jim Lyons

E-Mail: jlyons@hwceng.com

Sample Description: SAMPLE

PO: 030921

Date Received: 3/9/2021

Date Reported: 3/17/2021

In-Scope Test Methods: Tensile, Yield, Elongation, Reduction of Area (Room Temperature) (ASTM E8)

Analyst: Mihir Patel

***Non-Scope Methods:**

Discussion:

Six straps were received to determine the tensile and yield strengths. The straps were tested at their full width and thickness using a Tinius Olsen LoCap tensile tester with a 30,000-pound load cell, calibration due 9/9/2021.

Results:

Table 1 – Tensile results

Specimen #	Width (in)	Thickness (in)	Peak Load (lb)	Peak Stress (psi)	Yield Load (lb)	Yield Strength (psi)	Elongation (%)
1	1.50	0.037	3211	57856	2637	47514	49.70
2	1.50	0.037	3206	57766	2613	47081	51.70
3	1.50	0.037	3212	57874	2614	47099	51.00
1	1.25	0.037	5608	121385	5294	114589	14.00
2	1.25	0.037	5613	121494	5305	114827	11.00
3	1.25	0.037	5520	119481	5335	115476	12.00

Comments:

* The indicated test results are not covered by our current A2LA accreditation.
· The results only relate to the sample analyzed.
· The sample was tested as received.
· Decision rule does not take measurement uncertainty into account
· This report shall not be reproduced except in full, without written approval from the laboratory
· The opinions/interpretations identified/expressed in this report are outside the scope of our A2LA Accreditation.

M.V Patel

Author: Mihir Patel
Materials Scientist

Approved: William E. Swartz, Ph.D.
President/CEO

3/17/21
Date

Where indicated, the above testing is accredited by the American Association for Laboratory Accreditation
Chemical Testing Field – A2LA Certificate # 1171.01
Mechanical Testing Field – A2LA Certificate # 1171.02

FORM R405-2020

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 92

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Detached
3. Number of units, if multiple family		1
4. Number of Bedrooms		3
5. Is this a worst case?		Yes
6. Conditioned floor area (ft²)		1840
7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.35	185.46 ft²
SHGC:	SHGC=0.30	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		0.500 ft.
Area Weighted Average SHGC:		0.300
8. Skylights	Description	Area
a. U-Factor(AVG):	N/A	ft²
SHGC(AVG):	N/A	

9. Floor Types	Insulation	Area
a. Raised Floor	R=19.0	1840.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

10. Wall Type and Insulation	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1632.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

11. Ceiling Type and insulation level	Insulation	Area
a. Under Attic (Vented)	R=30.0	1840.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

12. Ducts, location & insulation level	R	ft²
a. Sup: Attic, Ret: Attic, AH: Exterior	8	262

13. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	41.3	SEER:14.00

14. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	39.0	HSPF:8.20

15. Hot water systems	
a. Electric	Cap: 40 gallons
	EF: 0.93
b. Conservation features	
None	
Credits (Performance method)	CF, Pstat

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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

APPLICATION ENGINEERING
FOR HEATING AND COOLING

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

Manufacturer's Model #: MICP-3833-M2026
HVAC System Type: OVERHEAD GRAD FLEX FOR EXT PACKAGE UNIT

Prepared By LaSalle Air Systems 8/17/2021 {Method & Output © 2021}

Calculations on this page are based on design standards set forth in ASHRAE and ACCA ***Manuals J Rev 8.2 and D Rev 1.1.*** *System registers are located for best distribution based on Manual T. Design calculations are based on worst case orientation. Room loads may vary based on actual conditions.*

ENTIRE HOUSE VALUES - DESIGN ZONE: FL, Region 2A FBC (2020)/IECC (2015) 30N Latitude

COOLING LOAD: **34,543** Btuh for Outside Temp/Humidity of 96 ° F (35 C)/ 48% and Inside reduced to 75 ° F (23 C)/ 50%

HEATING LOAD: **33,498** 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. **Actual UA = 312.6 Max UA (Table R402.1.2) = 377.3**
Use net wall area, not gross wall

CONSTRUCTION DETAILS & U / SHGC VALUES: (19+Non-ins Rim - 19 - 30)

Total Cond. Floor Area:	1840.00 s.f.		TRUE Outside Perimeter:		181.33 ft				
Level 1 Ceiling:	108 to 108 in.		Level 2 Ceiling:	0 to 0 in.		Level 3 Ceiling:	0 to 0 in.	Net Roof Area (less ducts): 1654.8 s.f.	
Primary Wall Area:	1403.74 s.f. (Net)		Dark Roof(U):	0.032		FLOOR DUCTS (U):	n/a		Duct TEL
Secondary Wall Area:	0.00 s.f. (Net)		Prim Wall (U):	0.059		ATTIC DUCTS (U):	0.125		363 ft
TOTAL Low-E window	184.21 s.f.		Sec Wall (U):	0.030		EXT. DUCTS (U):	0.125		
TOTAL S.G.D.	0.00 s.f.		Exp Floor(U):	0.050		INFLOOR DUCT AREA:	0	S.F. @ 51 TD/ 29.8 TD	
TOTAL Glass Block	0.00 s.f.		Low-E wi	0.350 / 0.3		ATTIC DUCT AREA:	217.06	S.F. @ 95 TD/ 94.1 TD	
TOTAL Skylite	0.00 s.f.		S.G.D.	0.480 / 0.36		EXT. DUCT AREA:	222.53	S.F. @ 95 TD/ 49 TD	
TOTAL Door1 Area:	44.05 s.f.		Glass Blc	0.630 / 0.48		PEOPLE: 4	3761.9 Btuh Total Appliances		
TOTAL Door2 Area:	0.00 s.f.		Skylite	0.790 / 0.75		FIREPLACES:	0		
All Glass % of Floor:	10.01 %		Door 1:	0.290		DUCT GAIN: @ Semi-Tight	4286	Btuh	
All Glass % of Wall:	11.29 %		Door 2:	0.670		DUCT LOSS:	6570	Btuh	
LATENT GAIN:	7433 Btuh					Summer Infiltr (7.5 mph):	38.0	cfm	
Mech. Ventilation :	94.85 cfn (44.7 L/s)		Altitude:	40 ft		Winter Infiltration (15 mph):	71.7	cfm	@ Semi-Tight

ROOM BY ROOM VALUES:

982.6 FPM, max velocity in trunk #: 3
0.25 Max pressure at A/H

Heat Exiting Furnace: 91 deg A/C Exiting : 50 deg

Actual heating and cooling required in each room and flow set to maximum of either heating or cooling

ROOM NAME		HEATING LOSS (Btu)	COOLING GAIN (Btu)	CFM DIST	Cooling Air Values for 3.5 ton unit CFM	Btuh	Heating Air Values for 40 90 % Gas/Oil CFM	Btuh	10.0 KW Elec E Btuh	Maximum A/C capacity Calibrated Blower Test Btuh (alt adj)
Living Room	h	5,241	5,947	209	279	8,004	261	6,923	6,562	9,418
WIC	h	1,482	1,257	59	-	-	-	-	-	-
Bath #2	h	2,512	2,397	100	108	3,091	101	2,674	2,534	3,642
Bedroom #1	h	5,903	6,507	235	308	8,843	288	7,649	7,249	10,396
Foyer	c	1,227	1,042	49	-	-	-	-	-	-
Dining	c	3,191	3,797	130	165	4,733	154	4,094	3,880	5,564
Kitchen	h	2,976	2,871	118	106	3,032	99	2,623	2,486	3,573
Bedroom #2	h	3,950	4,468	157	178	5,100	166	4,412	4,181	5,997
Bedroom #3	h	3,296	3,348	131	162	4,661	152	4,031	3,821	5,479
Bath #1	h	1,327	995	53	70	2,014	66	1,742	1,651	2,373
Bonus Rm	h	2,393	1,914	95	72	2,080	68	1,799	1,705	2,451
TOTALS		33,498	34,543	1,336	1,448	41,557	1,356	35,947	34,070	48,892

APPLICATION ENGINEERING
FOR HEATING AND COOLING

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

Manufacturer's Model #: MICP-3833-M2026
HVAC System Type: OVERHEAD GRAD FLEX FOR EXT PACKAGE UNIT

Prepared By LaSalle Air Systems 8/17/2021 {Method & Output © 2021}

Calculations on this page are based on design standards set forth in ASHRAE and ACCA ***Manuals J Rev 8.2 and D Rev 1.1.*** *System registers are located for best distribution based on Manual T. Design calculations are based on worst case orientation. Room loads may vary based on actual conditions.*

ENTIRE HOUSE VALUES - DESIGN ZONE: FL, Region 1A FBC (2020)/IECC (2015) 25N Latitude

COOLING LOAD: **35,557** Btuh for Outside Temp/Humidity of 97 ° F (36 C)/ 48% and Inside reduced to 75 ° F (23 C)/ 50%

HEATING LOAD: **23,689** Btuh based on outside temp of 34 ° F (1 C) with inside temp raised to 72 ° F (22 C)

Crawlspace is not heated by the primary air handler. **Actual UA = 312.6 Max UA (Table R402.1.2) = 404.9**
Use net wall area, not gross wall

CONSTRUCTION DETAILS & U / SHGC VALUES: (19+Non-ins Rim - 19 - 30)

Total Cond. Floor Area:	1840.00 s.f.	TRUE Outside Perimeter:		181.33 ft					
Level 1 Ceiling:	108 to 108 in.	Level 2 Ceiling:	0 to 0 in.	Level 3 Ceiling:	0 to 0 in.	Net Roof Area (less ducts): 1654.8 s.f.			
Primary Wall Area:	1403.74 s.f. (Net)	Dark Roof(U):	0.032	FLOOR DUCTS (U):		n/a		Duct TEL	
Secondary Wall Area:	0.00 s.f. (Net)	Prim Wall (U):	0.059	ATTIC DUCTS (U):		0.125		363 ft	
TOTAL Low-E window	184.21 s.f.	Sec Wall (U):	0.030	EXT. DUCTS (U):		0.125			
TOTAL S.G.D.	0.00 s.f.	Exp Floor(U):	0.050	INFLOOR DUCT AREA:		0	S.F. @ 47.6 TD/ 30.6 TD		
TOTAL Glass Block	0.00 s.f.	Low-E wi	0.350 / 0.3	ATTIC DUCT AREA:		217.06	S.F. @ 78 TD/ 95.5 TD		
TOTAL Skylite	0.00 s.f.	S.G.D.	0.480 / 0.36	EXT. DUCT AREA:		222.53	S.F. @ 78 TD/ 50 TD		
TOTAL Door1 Area:	44.05 s.f.	Glass Blc	0.630 / 0.48	PEOPLE:	4	3761.9 Btuh Total Appliances			
TOTAL Door2 Area:	0.00 s.f.	Skylite	0.790 / 0.75	FIREPLACES:		0			
All Glass % of Floor:	10.01 %	Door 1:	0.290	DUCT GAIN:	@ Semi-Tight	4385	Btuh		
All Glass % of Wall:	11.29 %	Door 2:	0.670	DUCT LOSS:		5078	Btuh		
LATENT GAIN:	7882 Btuh			Summer Infiltr (7.5 mph):		38.0	cfm		
Mech. Ventilation :	94.85 cfn (44.7 L/s)	Altitude:	15 ft	Winter Infiltration (15 mph):		71.7	cfm	@ Semi-Tight	

ROOM BY ROOM VALUES:

978.6 FPM, max velocity in trunk #: 3
0.25 Max pressure at A/H

Heat Exiting Furnace: 86 deg A/C Exiting : 50 deg

Actual heating and cooling required in each room and flow set to maximum of either heating or cooling

ROOM NAME		HEATING LOSS (Btu)	COOLING GAIN (Btu)	CFM DIST	Cooling Air Values for **3.5** ton unit CFM	Btuh	Heating Air Values for 30 90 % Gas/Oil CFM	Btuh	7.5 KW Elec E Btuh	Maximum A/C capacity Calibrated Blower Test Btuh (alt adj)
Living Room	c	3,718	6,110	198	278	7,938	260	5,197	4,926	9,427
WIC	c	1,024	1,301	59	-	-	-	-	-	-
Bath #2	h	1,786	2,470	94	107	3,065	100	2,007	1,902	3,646
Bedroom #1	h	4,185	6,688	221	307	8,770	287	5,742	5,442	10,405
Foyer	c	848	1,079	51	-	-	-	-	-	-
Dining	c	2,254	3,902	135	164	4,694	154	3,073	2,913	5,569
Kitchen	h	2,108	2,961	111	105	3,007	99	1,969	1,866	3,576
Bedroom #2	c	2,775	4,596	160	177	5,058	166	3,312	3,139	6,002
Bedroom #3	h	2,328	3,449	123	162	4,622	151	3,026	2,868	5,484
Bath #1	h	964	1,026	51	70	1,998	65	1,308	1,240	2,375
Bonus Rm	h	1,700	1,976	90	72	2,063	68	1,351	1,280	2,453
TOTALS		23,689	35,557	1,291	1,442	41,214	1,350	26,985	25,576	48,937

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	MICP-3833-M2026	Builder Name:	Jacobsen Homes
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Tampa	County:	Hillsborough (Florida Climate Zone 2)

APPROVED • NILBORN, WERNER, CARTER & ASSOCIATES, INC. • 09-15-2021 HWC

1. New construction or existing	New (From Plans)			
2. Single family or multiple family	Detached			
3. Number of units, if multiple family	1			
4. Number of Bedrooms	3			
5. Is this a worst case?	Yes			
6. Conditioned floor area above grade (ft²)	1840.00012207			
Conditioned floor area below grade (ft²)	0			
7. Windows(185.5 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.35		185.46	ft²
SHGC:	SHGC=0.30			
b. U-Factor:	N/A			ft²
SHGC:				
c. U-Factor:	N/A			ft²
SHGC:				
Area Weighted Average Overhang Depth:			0.500	ft.
Area Weighted Average SHGC:			0.300	
8. Skylights			Area	
c. U-Factor:(AVG)	N/A			ft²
SHGC(AVG):	N/A			
9. Floor Types (1840.0 sqft.)		Insulation	Area	
a. Raised Floor		R=19.0	1840.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

10. Wall Types(1632.0 sqft.)		Insulation	Area
a. Frame - Wood, Exterior		R=19.0	1632.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²
d. N/A		R=	ft²
11. Ceiling Types (1840.0 sqft.)		Insulation	Area
a. Under Attic (Vented)		R=30.0	1840.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²
12. Ducts			R ft²
a. Sup: Attic, Ret: Attic, AH: Exterior			8 262
13. Cooling systems		kBtu/hr	Efficiency
a. Central Unit		41.3	SEER:14.00
14. Heating systems		kBtu/hr	Efficiency
a. Electric Heat Pump		39.0	HSPF:8.20
15. Hot water systems			
a. Electric			Cap: 40 gallons
			EF: 0.926
b. Conservation features			
None			
16. Credits			CF, Pstat

Glass/Floor Area: 0.101

Total Proposed Modified Loads: 56.47

Total Baseline Loads: 61.06

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Allen Mathews

DATE: 8-20-2021

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA • IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 3.10 ACH50 (R402.4.1.2).

- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2

SEE MANUFACTURER'S CONTRACT
WITH FLORIDA DBPR

2540-0802(MICP-3833)

Date 09-15-2021 Plan No. _____

Approved By SCOTT S. FRANCIS

Modular Building Plans Examiner
Florida License No. SMP-42

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	MICP-3833-M2026	Builder Name:	Jacobsen Homes
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Miami	County:	Miami-Dade (Florida Climate Zone 1)

1. New construction or existing	New (From Plans)			
2. Single family or multiple family	Detached			
3. Number of units, if multiple family	1			
4. Number of Bedrooms	3			
5. Is this a worst case?	Yes			
6. Conditioned floor area above grade (ft²)	1840.00012207			
Conditioned floor area below grade (ft²)	0			
7. Windows(185.5 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.35		185.46	ft²
SHGC:	SHGC=0.30			
b. U-Factor:	N/A			ft²
SHGC:				
c. U-Factor:	N/A			ft²
SHGC:				
Area Weighted Average Overhang Depth:			0.500	ft.
Area Weighted Average SHGC:			0.300	
8. Skylights			Area	
c. U-Factor:(AVG)	N/A			ft²
SHGC(AVG):	N/A			
9. Floor Types (1840.0 sqft.)		Insulation	Area	
a. Raised Floor		R=19.0	1840.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

10. Wall Types(1632.0 sqft.)		Insulation	Area
a. Frame - Wood, Exterior		R=19.0	1632.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²
d. N/A		R=	ft²
11. Ceiling Types (1840.0 sqft.)		Insulation	Area
a. Under Attic (Vented)		R=30.0	1840.00 ft²
b. N/A		R=	ft²
c. N/A		R=	ft²
12. Ducts		R	ft²
a. Sup: Attic, Ret: Attic, AH: Exterior		8	262
13. Cooling systems		kBtu/hr	Efficiency
a. Central Unit		41.3	SEER:14.00
14. Heating systems		kBtu/hr	Efficiency
a. Electric Heat Pump		39.0	HSPF:8.20
15. Hot water systems			
a. Electric			Cap: 40 gallons
			EF: 0.926
b. Conservation features			
None			
16. Credits			CF, Pstat

Glass/Floor Area: 0.101

Total Proposed Modified Loads: 63.91

Total Baseline Loads: 69.66

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Allen Mathews

DATE: 8-20-2021

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 3.10 ACH50 (R402.4.1.2).

- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2

SEE MANUFACTURER'S CONTRACT
WITH FLORIDA DBPR

2540-0802(MICP-3833)

Date 09-15-2021 Plan No.
Approved By SCOTT S. FRANCIS

Modular Building Plans Examiner
Florida License No. SMP-42

Job	Truss	Truss Type	Qty	Ply	
104024	M1133101	MONO TRUSS	1	1	Jacobsen Homes 407 GA M36181F Ref. #10010401

UFP Industries Inc., Grand Rapids, MI 49525, Weston Gorby

8.420 e Sep 14 2020 MiTek Industries, Inc. Tue Dec 8 11:38:14 2020 Page 1 of 1

- This replaces the drawing issued on 12/4/20 -

- Updated wind loads -

Plate Offsets (X,Y)-- [3:0-1-12,0-1-4], [4:0-0-8,0-1-4], [5:0-0-2,0-1-0], [6:Edge,0-1-8], [7:Edge,0-2-4], [8:0-1-0,0-1-4], [9:0-1-0,0-1-4], [10:0-2-4,0-1-0]

SPACING-: 2-0-0		**SPACING-:** 1-4-0		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING (psf)		**LOADING** (psf)		Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.31	9-10	>571	240	MT20	244/190
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.27	9-10	>666	180		
TCDL	10.0	TCDL	15.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	-0.06	7	n/a	n/a		
BCLL	0.0 *	BCLL	0.0 *	Code FBC2020/TPI2014		Matrix-R							Weight: 46 lb	
BCDL	5.0	BCDL	7.5										FT = 0%	

LUMBER-
TOP CHORD 2x3 SP No.2
BOT CHORD 2x3 SP No.2
WEBS 2x2 SP No.2 *Except*
W2: 2x3 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-11-9 oc bracing.

REACTIONS. (lb/size) 2=560/0-3-8 (min. 0-1-8), 7=520/Mechanical
Max Horz 2=241(LC 7)
Max Uplift 2=-612(LC 5), 7=-585(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2/0, 2-11=-1887/2212, 3-11=-1856/2214, 3-4=-1460/1653, 4-5=-756/865, 5-12=-34/0, 6-12=-17/4, 6-7=-92/212
BOT CHORD 2-10=-2415/1822, 9-10=-2415/1822, 8-9=-1810/1420, 7-8=-966/722
WEBS 3-10=0/101, 5-7=-818/1088, 5-8=-275/301, 4-8=-739/894, 4-9=-103/179, 3-9=-408/615

NOTES-
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 180mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 12-0-4, Exterior(2E) 12-0-4 to 15-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tal by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 2 ar 585 lb uplift at joint 7.
7) Reference UFP Engineering Bulletin 06-06 for information on re-grading ripped lumber.

APPROVED • HILBORN, WERNER, CARTER & ASSOCIATES, INC. • 09-15-2021 HWC

KEVIN FREEMAN LICENSE No 56254 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/8/2020

The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

UFP Industries, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

Job	Truss	Truss Type	Qty	Ply	Jacobsen Homes 407 GA
104024	M1133102	MONO TRUSS	1	1	M36181FT
					Ref. #10010401

UFP Industries Inc., Grand Rapids, MI 49525, Weston Gorby

8.420 e Sep 14 2020 MiTek Industries, Inc. Tue Dec 8 11:41:59 2020 Page 1 of 1

- This replaces the drawing issued on 12/4/20 -
- Updated wind loads -

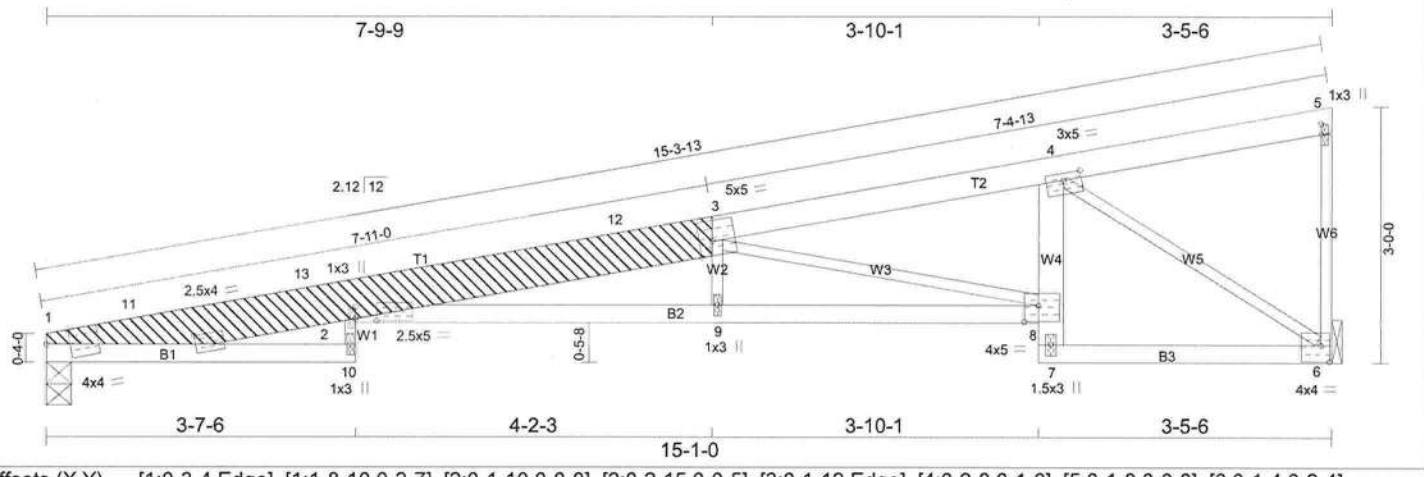


Plate Offsets (X,Y)-- [1:0-3-4,Edge], [1:1-8-10,0-2-7], [2:0-1-10,0-0-0], [2:0-2-15,0-0-5], [3:0-1-12,Edge], [4:0-2-8,0-1-0], [5:0-1-8,0-0-0], [6:0-1-4,0-2-4], [8:0-2-0,0-2-4]

SPACING-:	2-0-0	**SPACING-:**	1-4-0	**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d
LOADING	(psf)	**LOADING**	(psf)	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	0.67	2-9	>268	240
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	0.58	2-9	>310	180
TCDL	10.0	TCDL	15.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	-0.22	6	n/a	n/a
BCLL	0.0 *	BCLL	0.0 *	Code FBC2020/TPI2014		Matrix-R						
BCDL	5.0	BCDL	7.5									

PLATES	**GRIP**
MT20	244/190

Weight: 74 lb
FT = 0%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except* T2: 2x4 SP No.2
BOT CHORD 2x3 SP No.2
WEBS 2x2 SP No.2 *Except* W4: 2x4 SP No.2
OTHERS 2x6 SP No.2
LBR SCAB 1-3 2x6 SP No.2 one side

REACTIONS. (lb/size) 1=520/0-3-8 (min. 0-1-8), 6=519/Mechanical
Max Horz 1=240(LC 5)
Max Uplift 1=-541(LC 5), 6=-585(LC 5)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-11=-166/0, 11-13=-162/0, 2-13=-162/0, 2-12=-2073/2484, 3-12=-2039/2489, 3-4=-880/1085, 4-5=-28/4, 5-6=-71/174
BOT CHORD 1-10=0/0, 6-7=-908/648, 2-9=-2708/2074, 8-9=-2698/2069
WEBS 7-8=-268/210, 4-8=-378/343, 2-10=-13/47, 3-9=-35/121, 4-6=-774/1084, 3-8=-1253/1555

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-7-5 oc bracing.

NOTES-

1) Attached 7-11-4 scab 1 to 3, front face(s) 2x6 SP No.2 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-5-11 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0; starting at 5-3-9 from end at joint 1, nail 2 row(s) at 7" o.c. for 2-0-0.
2) This truss has been checked for uniform roof live load only, except as noted.
3) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 180mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-9-7, Exterior(2E) 11-9-7 to 15-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 541 lb uplift at joint 1 and 585 lb uplift at joint 6.
8) Reference UFP Engineering Bulletin 06-06 for information on re-grading ripped lumber.

12/8/2020

The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

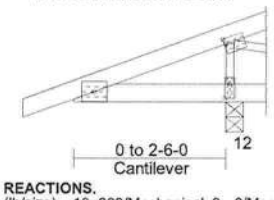
UFP Industries, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

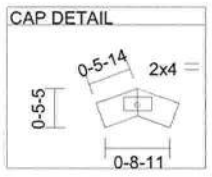

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for
FILE COPY
Code Compliance
PLANS EXAMINER

Job	Truss	Truss Type	Qty	Ply	JACOBSEN HOMES 407
104033	HM760513	HINGE MONO	1	1	

UFP Industries Inc., Grand Rapids, MI 49525, Michael Adams — 8.420 e Sep 14 2020 MiTek Industries, Inc. Mon Dec 7 11:07:13 2020 Page 1

Alt Cantilever Detail





REACTIONS.
(lb/size) 10=383/Mechanical, 9=-0/Mechanical, 12=684/0-3-8 (min. 0-1-8)
Max Horz 9=60(LC 5), 12=452(LC 5)
Max Uplift 10=-530(LC 7), 12=-842(LC 5)
Max Grav 10=383(LC 1), 12=684(LC 1)

Plate Offsets (X,Y)-- [3:0-0-5,0-1-0], [4:0-1-0,0-1-4], [6:0-0-4,0-1-12], [7:0-1-3,0-1-1], [10:Edge,0-3-8], [11:0-1-12,0-1-4], [12:0-2-12,0-1-0]

SPACING-:	2-0-0	**SPACING-:**	1-4-0	**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING	(psf)	**LOADING**	(psf)	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.12	11	>999	240	MT20	244/190
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.18	10-11	>999	180	MT18HS	244/190
TCDL	7.0	TCDL	10.5	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.01	10	n/a	n/a		
BCLL	0.0	BCLL	0.0	Code	FBC2020/TPI2014	Matrix-R							Weight: 76 lb	
BCDL	7.0	BCDL	10.5										FT = 0%	

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x2 SP No.2 *Except* W8: 2x4 SP No.2, W7,W4,W5: 2x3 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals. [P]
BOT CHORD Rigid ceiling directly applied or 5-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 11-14
JOINTS 1 Brace at Jt(s): 13

REACTIONS. (lb/size) 2=570/0-3-8 (min. 0-1-8), 10=495/Mechanical, 9=-0/Mechanical
Max Horz 2=452(LC 5), 9=60(LC 5)
Max Uplift 2=-611(LC 5), 10=-641(LC 7)
Max Grav 2=570(LC 1), 10=495(LC 1)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/13, 2-16=-1083/1056, 3-16=-1042/1057, 3-4=-973/970, 4-5=-173/24, 5-6=-161/56, 6-7=-150/66, 7-8=-49/58, 8-9=-37/59, 10-14=-434/702, 13-14=-150/275
BOT CHORD 2-12=-1366/933, 11-12=-1365/934, 10-11=0/65
WEBS 4-11=-138/386, 7-13=-171/313, 4-15=-814/1122, 14-15=-815/1125, 11-14=-1339/904, 3-12=0/65, 3-11=-71/123, 5-15=-49/92

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
8=41/59/22/0, 13=171/313/150/0

NOTES- (10-13)
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=2.8psf; BCDL=2.8psf; (Alt. 180mph @16in o.c.; TCDL=4.2psf; BCDL=4.2psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-0 to 2-2-0, Interior(1) 2-2-0 to 15-0-11 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) See HINGE PLATE DETAILS for plate placement.
6) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
7) All additional member connections shall be provided by others for forces as indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 611 lb uplift at joint 2 and 641 lb uplift at joint 10.
10) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
11) The field-installed members are an integral part of the truss design. Retain a design professional to specify final field connections and temporary supports. All field-installed members must be properly fastened prior to applying any loading to the truss. This design anticipates the final set position.
12) Based on: HM760509
13) Revision: Update code

APPROVED • HILLBORN, WERNER, CARTER & ASSOCIATES, INC. • 09-15-2021 HWC

KEVIN FREEMAN LICENSE No 56254 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/9/2020

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UFP Industries, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

Job	Truss	Truss Type	Qty	Ply	Jacobsen Homes 407 GA
104034	M0730305	MONO TRUSS	1	1	M42181 Ref. #10010410

UFP Industries Inc., Grand Rapids, MI 49525, Weston Gorby

8.420 e Sep 14 2020 MiTek Industries, Inc. Tue Dec 8 13:08:25 2020 Page 1 of 1
- This replaces the drawing issued on 12/7/20 -
- Updated wind loads -

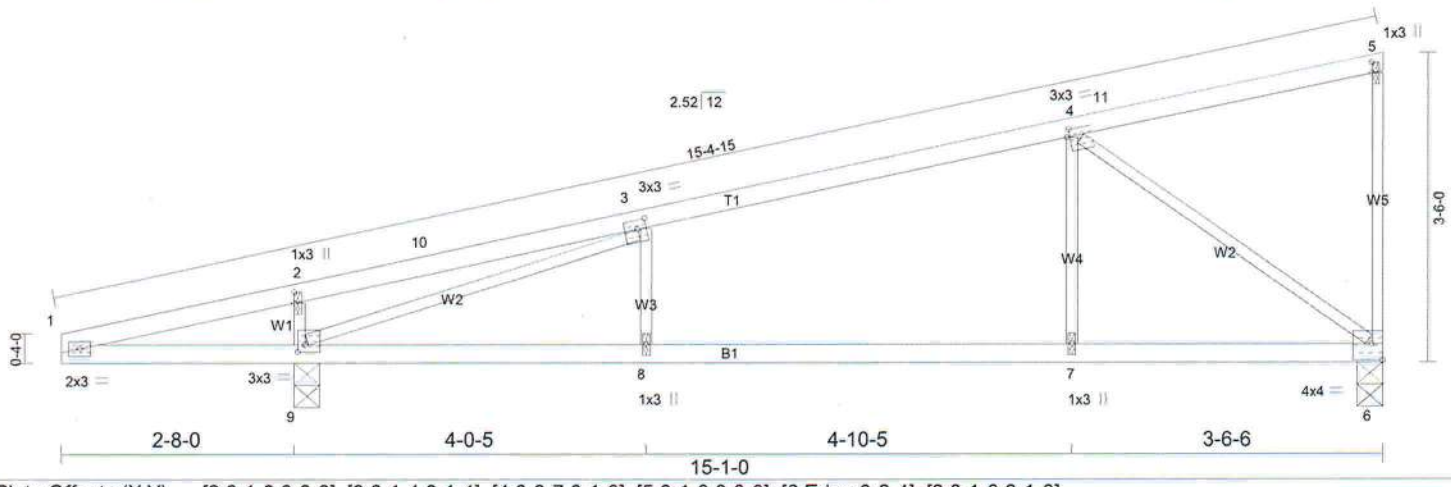

Plate Offsets (X,Y)-- [2:0-1-8,0-0-0], [3:0-1-4,0-1-4], [4:0-0-7,0-1-0], [5:0-1-8,0-0-0], [6:Edge,0-2-4], [9:0-1-0,0-1-0]

SPACING-:	2-0-0	**SPACING-:**	1-4-0	**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
LOADING	(psf)	**LOADING**	(psf)	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	0.60	8	>244	240	MT20	244/190
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	0.54	8	>272	180		
TCDL	7.0	TCDL	10.5	Rep Stress Incr	YES	WB	0.51	Horz(CT)	-0.02	6	n/a	n/a		
BCLL	0.0 *	BCLL	0.0 *	Code FBC2020/TPI2014		Matrix-R							Weight: 42 lb	
BCDL	7.0	BCDL	10.5										FT = 0%	

LUMBER-
TOP CHORD 2x3 SP No.2
BOT CHORD 2x3 SP No.1
WEBS 2x2 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-15 oc bracing.

REACTIONS. (lb/size) 6=396/0-3-8 (min. 0-1-8), 9=625/0-3-8 (min. 0-1-8)
Max Horz 9=287(LC 5)
Max Uplift 6=-484(LC 7), 9=-792(LC 5)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-666/131, 2-10=-582/94, 3-10=-579/129, 3-4=-529/532, 4-11=-34/0, 5-11=-33/8, 5-6=-38/163
BOT CHORD 1-9=-101/678, 8-9=-656/507, 7-8=-651/506, 6-7=-651/505
WEBS 2-9=-250/482, 4-6=-633/804, 4-7=-101/222, 3-9=-669/1074, 3-8=-46/180

NOTES-
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=2.8psf; BCDL=2.8psf; (Alt. 180mph @16in o.c.; TCDL=4.2psf; BCDL=4.2psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 2-8-7, Interior(1) 2-8-7 to 12-0-4, Exterior(2E) 12-0-4 to 15-0-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 484 lb uplift at joint 6 and 792 lb uplift at joint 9.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This truss has been designed to meet MHCSS Sec. 3280.303, 3280.304 and 3280.305. For HUD load cases on calculated designs, the snow load applied to the truss (TCLL) has not been reduced and is equivalent to the ground snow load indicated in the design loading box. For trusses qualified through full-scale testing, all loads, including any loading from field installed cap members shown on the design prints, have been considered during the qualification of the truss assembly.
9) Reference UFP Engineering Bulletin 06-06 for information on re-grading ripped lumber.
10) Based on: M730302
11) Revision: Updated code

12/8/2020

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UFP Industries, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

Job	Truss	Truss Type	Qty	Ply	Jacobsen Homes 407 GA
104037	M0730306	MONO TRUSS	1	1	M42181

UFP Industries Inc., Grand Rapids, MI 49525, Michael Adams 8.420 e Sep 14 2020 MiTek Industries, Inc. Fri Dec 11 07:46:44 2020 Page 1

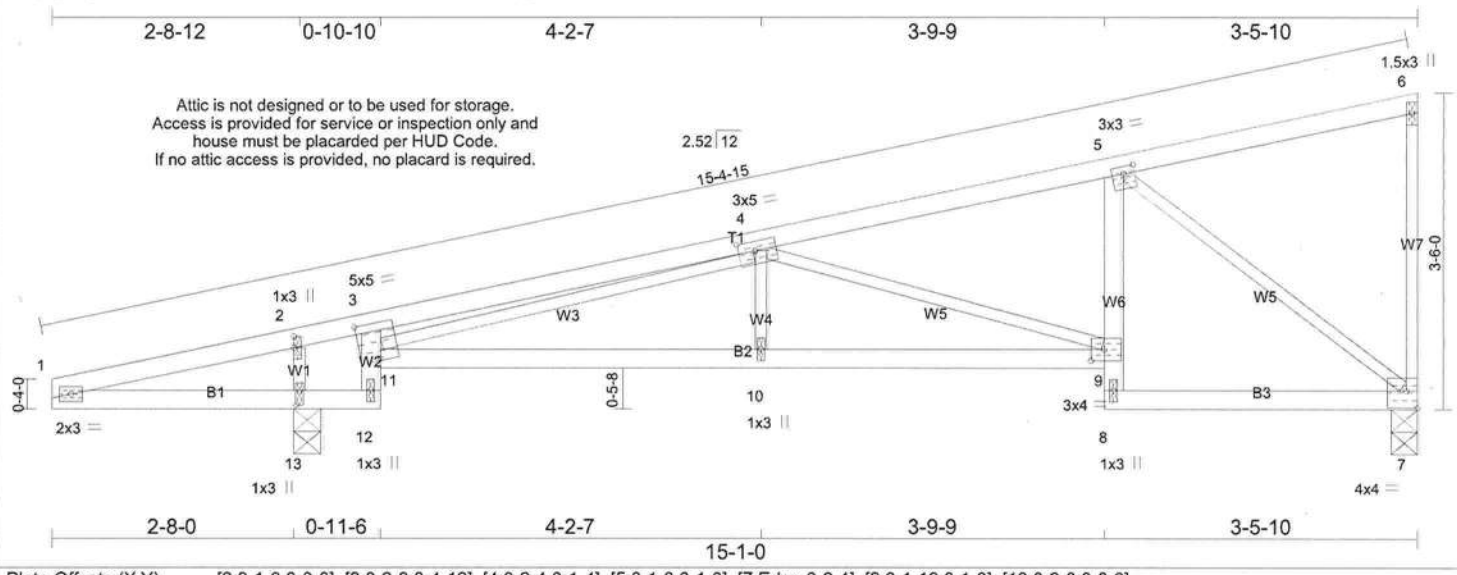

Plate Offsets (X,Y)-- [2:0-1-8,0-0-0], [3:0-2-8,0-4-12], [4:0-2-4,0-1-4], [5:0-1-8,0-1-0], [7:Edge,0-2-4], [9:0-1-12,0-1-8], [13:0-2-0,0-0-8]

SPACING-:	2-0-0	SPACING-:	1-4-0	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
LOADING	(psf)	LOADING	(psf)	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	0.19	10	>764	240	MT20	244/190
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	0.17	10	>866	180		
TCDL	7.0	TCDL	10.5	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.12	7	n/a	n/a		
BCLL	0.0 *	BCLL	0.0 *	Code	FBC2020/TPI2014	Matrix-R							Weight: 46 lb	
BCDL	7.0	BCDL	10.5		HUD CALC/TPI2002								FT = 0%	

LUMBER-
TOP CHORD 2x3 SP No.2
BOT CHORD 2x3 SP No.2
WEBS 2x2 SP No.2 *Except*
W2,W6: 2x3 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. [P]
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (lb/size) 13=622/0-3-8 (min. 0-1-8), 7=396/0-3-8 (min. 0-1-8)
Max Horz 13=287(LC 5)
Max Uplift 13=-791(LC 5), 7=-486(LC 7)

WIND ZONE II @ 24" O/C	WIND ZONE III @ 16" O/C
-39 PSF WL	-47 PSF WL
-51 PSF WL(EAVE ONLY)	-62 PSF WL(EAVE ONLY)
6 PSF DL	6 PSF DL

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-345/61, 2-3=-233/141, 3-4=-247/542, 4-5=-507/566, 5-6=-33/9, 6-7=-76/197
BOT CHORD 1-13=-41/361, 12-13=-313/77, 7-8=-557/381, 10-11=-1171/915, 9-10=-1171/917
WEBS 2-13=-342/567, 11-12=-167/306, 3-11=-50/117, 8-9=-111/108, 5-9=-187/218, 5-7=-477/694, 4-9=-468/606, 4-10=0/164, 4-11=-720/1129

NOTES- (8-11)
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=2.8psf; BCDL=2.8psf; (Alt. 180mph @16in o.c.; TCDL=4.2psf; BCDL=4.2psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 2-8-7, Interior(1) 2-8-7 to 11-8-12, Exterior(2E) 11-8-12 to 15-0-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 791 lb uplift at joint 13 and 486 lb uplift at joint 7.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This truss has been designed to meet MHCSS Sec. 3280.303, 3280.304 and 3280.305. For HUD load cases on calculated design applied to the truss (TCLL) has not been reduced and is equivalent to the ground snow load indicated in the design loading box. Fo through full-scale testing, all loads, including any loading from field installed cap members shown on the design prints, have been c the qualification of the truss assembly.
9) Reference UFP Engineering Bulletin 06-06 for information on re-grading ripped lumber.
10) Based on: M730303
11) Revision: Updated code

APPROVED • HILBORN, WERNER, CARTER & ASSOCIATES, INC. • 09-15-2021 HWC

KEVIN FREEMAN LICENSE No 56254 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/14/2020

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UFP Industries, Inc.
PHONE (616)-364-6161 FAX (616)-365-0060
2801 EAST BELTLINE RD, NE
GRAND RAPIDS, MI 49525

Job	Truss	Truss Type	Qty	Ply	Jacobsen Homes 407 GA
104024	M1133101	MONO TRUSS	1	1	M36181F Ref. #10010401

UFP Industries Inc., Grand Rapids, MI 49525, Weston Gorby — 8.420 e Sep 14 2020 MiTek Industries, Inc. Tue Dec 8 11:38:14 2020 Page 1 of 1

- This replaces the drawing issued on 12/4/20 -
- Updated wind loads -

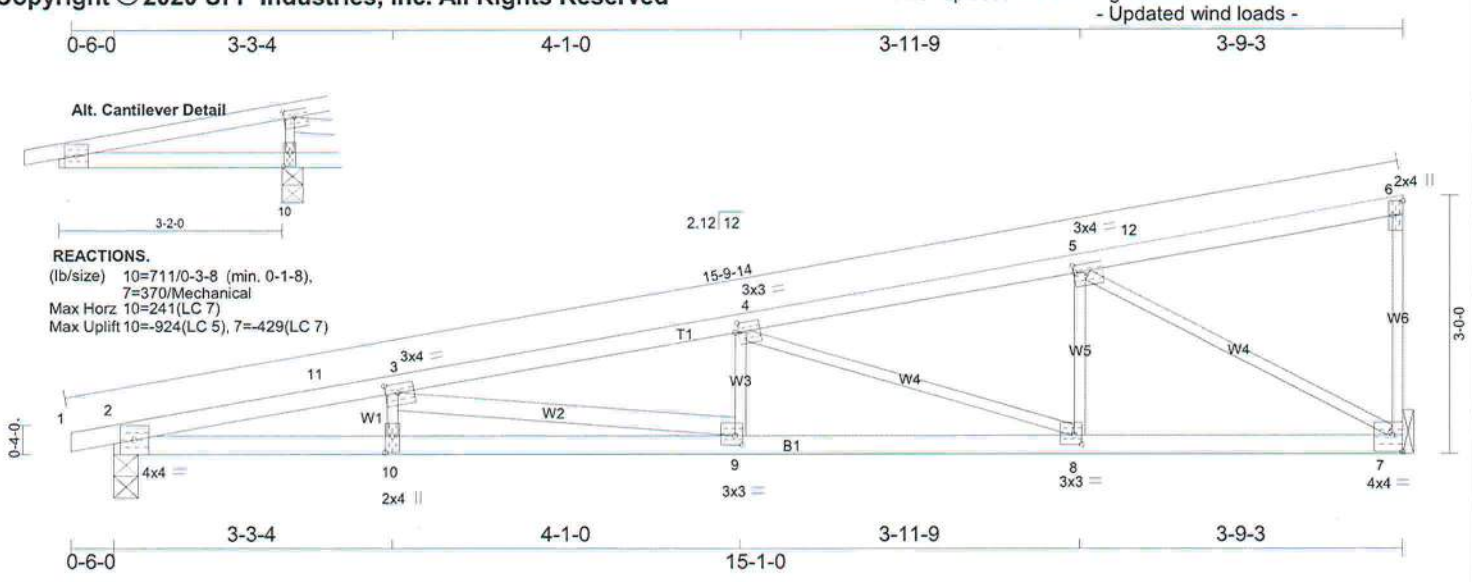

Plate Offsets (X,Y)-- [3:0-1-12,0-1-4], [4:0-0-8,0-1-4], [5:0-0-2,0-1-0], [6:Edge,0-1-8], [7:Edge,0-2-4], [8:0-1-0,0-1-4], [9:0-1-0,0-1-4], [10:0-2-4,0-1-0]

SPACING-:	2-0-0	**SPACING-:**	1-4-0	**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d
LOADING	(psf)	**LOADING**	(psf)	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.31	9-10	>571	240
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	0.27	9-10	>666	180
TCDL	10.0	TCDL	15.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	-0.06	7	n/a	n/a
BCLL	0.0 *	BCLL	0.0 *	Code	FBC2020/TPI2014	Matrix-R						
BCDL	5.0	BCDL	7.5									

PLATES	**GRIP**
MT20	244/190

Weight: 46 lb
FT = 0%

LUMBER-
TOP CHORD 2x3 SP No.2
BOT CHORD 2x3 SP No.2
WEBS 2x2 SP No.2 *Except*
W2: 2x3 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-11-9 oc bracing.

REACTIONS. (lb/size) 2=560/0-3-8 (min. 0-1-8), 7=520/Mechanical
Max Horz 2=241(LC 7)
Max Uplift 2=-612(LC 5), 7=-585(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2/0, 2-11=-1887/2212, 3-11=-1856/2214, 3-4=-1460/1653, 4-5=-756/865, 5-12=-34/0, 6-12=-17/4, 6-7=-92/212
BOT CHORD 2-10=-2415/1822, 9-10=-2415/1822, 8-9=-1810/1420, 7-8=-966/722
WEBS 3-10=0/101, 5-7=-818/1088, 5-8=-275/301, 4-8=-739/894, 4-9=-103/179, 3-9=-408/615

NOTES-
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=4.0psf; BCDL=2.0psf; (Alt. 180mph @16in o.c.; TCDL=6.0psf; BCDL=3.0psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 12-0-4, Exterior(2E) 12-0-4 to 15-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 2 and 585 lb uplift at joint 7.
7) Reference UFP Engineering Bulletin 06-06 for information on re-grading ripped lumber.

APPROVED • HILBORN, WERNER, CARTER & ASSOCIATES, INC. • 09-15-2021 HWC

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12/8/2020

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