

# ENGINEERS PLANNERS CONSULTANTS

305 NORTH OAKLAND AVENUE • P.O. BOX 490 • NAPPANEE, INDIANA 46550 WEB: WWW.NTAINC.COM

PHONE: 574-773-7975 FAX: 574-773-2732

August 22, 2019

Destiny Homes, LLC 250 RW Bryant Rd Moultrie, GA 31778

RE: MFT-2437-ME764-750-108-R1

NTA JOB NUMBER: DES072219-32

Dear Mr. Jerry Benton,

The referenced manufactured building has been reviewed and approved. NTA, Inc. certifies this plan is in compliance with 2017 Florida Codes  $-6^{th}$  Edition as referenced in the approved drawings. This approval covers the factory build structure only. Any alterations to the factory built structure, on site, voids the approval. This plan is subject to the following limitations:

- 1. This plan is NOT approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties).
- 2. Signed and sealed plans are on file with NTA, Inc.
- 3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
- 4. Items installed on site are subject to review and approval by the local authority having jurisdiction. Please reference the list of site installed items on the approved plans.
- 5. This review included products for compliance with 553.8425 or FAC Chapter 61G20-3.

If you have any additional questions or comments regarding this matter please contact me at your convenience at (574) 773-7975.

Respectfully,

## Michael Faller

Michael Faller Account Manager NTA, Inc.



#### STATE CODES:

**FLORIDA** 6th Edition (2017) Florida Residential Code 2014 National Electrical Code 6th Edition (2017) Florida Engergy Code



THIS DRAWING COMPLIES WITH 61G20-3.006 (PRODUCT VALIDATION)

#### BUILDING INFORMATION

CONSTRUCTION TYPE:	WOOD FRAME
TOTAL S.F.:	2254
NUMBER OF FLOORS:	1

BUILDING DESIGN CRITERIA (ASCE 7-10) BUILDING HAS NOT BEEN DESIGNED FOR PLACEMENT IN HIGH VELOCITY

HURRICANE ZONE (HVHZ).	(I.E. DADE AND BROWARD COUNTIES)
OCCUPANCY CLASS:	SINGLE FAMILY DWELLING
WIND LOAD DESIGN:	150 MPH (VULT) 116 MPH (VASD)
EXPOSURE:	С
1ST FLOOR LIVE LOAD:	40 PSF
1ST FLOOR DEAD LOAD:	10 PSF
2ND FLOOR LIVE LOAD:	0 PSF
2ND FLOOR DEAD LOAD:	0 PSF
ROOF LIVE LOAD:	20 PSF
ROOF DEAD LOAD:	14 PSF
ATTIC LIVE LOAD:	10 PSF
ATTIC DEAD LOAD:	0 PSF
SEISMIC GROUP:	N/A
FIRE RATING EXT WALLS:	0
INTER. PRESSURE COEFFICIENT	-0.18 (ENCLOSED BUILDING)
RISK CATEGORY	II
MEAN ROOF HEIGHT	20FT

D.W.P. FOR C/C PSF PR-ROOF C&C LOAD (EA-50) WIND SPEED 150 VULT (116 VASD) ZONE1 18.0 PSF - 28.6 PSF ZONE 2 18.0 PSF - 49.8 PSF ZONE 3 18.0 PSF - 73.5 PSF ROOF OVERHANG (EA-10) - 63.0 PSF 70NF 2 70NF 3 - 102.6 PSF PW-WALL C&C LOAD, WALLS & DOOR (EA-10) 31.2 PSF 31.2 PSF ZONE 4 - 33.9 PSF

PRESSURES SHOWN ARE ALLOWABLE STRENGTH PRESSURES

— 41.8 PSF

#### MECHANICAL NOTES:

- 1. ALL SUPPLY REGISTERS ARE ADJUSTABLE, EXCEPT WHERE OTHERWISE SPECIFIED.
- 2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 ABOVED FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOORPLAN.
- 3. BATHROOM VENT FANS SHALL PROVIDE 50 CFM MINIMUM OF VENTILATION.
- I. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKE TO PROVIDE 20 CFM PER PERSON.
- 5. VENTS SHALL BE DUCTED TO THE EXTERIOR OF HOME.
- 6. ALL DUCT SYSTEMS COMPONENTS INSTALLED IN THE ATTIC AREA WITH INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-8.0.
- 7. ALL HVAC COMPONENT INSTALLED ON SITE SHALL BE INSTALLED BY HVAC CONTRACTOR.
- 8. TESTING IS MANDATORY FOR AIR LEAKAGE OF DWELLING AND TESTING OF DUCT SYSTEM.

MIN. 7.51 SQUARE FEET NET FREE AREA OF ATTIC VENTILATION TO BE PROVIDED BY SOFFIT AND RIDGE VENTS/ROOF VENTS.

MIN. 15.0 SQUARE FEET NET FREE AREA OF CRAWL SPACE VENTILATION TO BE PROVIDED BY FOUNDATION CONTRACTOR. ATTIC VENTILATION ACHIEVED BY RIDGE VENT AND SOFFIT VENTS (SEE CROSS SECTION DRAWING FOR SPECS)

#### **GENERAL NOTES:**

- 1. ALL GLAZING WITHIN 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC
- 2. OCCUPANT LOAD IS BASED ON 1 PERSON PER 200 SQUARE FEET OF FLOOR AREA.
- 3. MINIMUM CORRIDOR WIDTH IS 36 INCHES.
- 4. WINDOWS, GLASS, DOORS, SHALL COMPLY WITH AAMA/NWWDA 101/I.S.2.
- 5. ALL MATERIALS USE IN THIS CONSTRUCTION OF THE BUILDING WHICH ARE COVERED BY THE FLORIDA BUILDING COMMISSION CHAPTER 61G20-3 RULES SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL
- 6. ALL CONSTRUCTION, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THE DRAWING.
- 7. ATTIC AND CRAWLSPACE VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODE SECTIONS.
- B. DATA PLATE AND STATE INSIGNIAS ARE LOCATED IN OR ON THE PANEL BOX OF THE HOME.
- 9. THIS HOME SHALL NOT BE PLACED IN AN AREA THAT EXCEEDS THE DESIGN CRITERIA OF BUILDING.

NOTE THE BUILDING SPECIFIED ON THESE DRAWINGS IS EXCLUDING FROM COVERAGE OF THE MANUFACTURED HOUSING CONSTRUCTION AND SAFETY STANDARDS ACT. 42 U.S.C. 5401 ET SEQ. UNDER PROVISIONS OF 24 CFR 3282.12, IN THAT THE BUILDING IS:

- INTENDED ONLY FOR ERECTION OR INSTALLATION ON A SITE—BUILT PERMANENT FOUNDATION:
- NOT DESIGNED TO BE MOVED ONCE ERECTED OR
- 3 DESIGNED AND MANUFACTURED TO COMPLY WITH A NATIONAL RECOGNIZED MODEL BUILDING CODE OR AN EQUIVALENT BUILDING CODE FOR SITE-BUILT HOUSING.

#### BUILDING SITE INSTALLATION REQUIREMENTS

ATTENTION LOCAL INSPECTION DEPARTMENT THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE BUILDING MANUFACTURER AND HAVE NOT BEEN INSPECTED BY THE THIRD PART INSPECTION AGENCY AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL AND/OR CERTIFICATION. CODE COMPLIANCE FOR THESE ITEMS MUST BE DETERMINED AT THE LOCAL LEVEL:

- THE COMPLETED FOUNDATION SUPPORT SYSTEM AND TIEDOWN AND/OR ANCHORAGE SYSTEM.
- RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
- BUILDING DRAINS, CLEAN OUTS AND HOOK UPS TO PLUMBING SYSTEM AND FINISH PLUMBING.
- ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS AND THE
- MAIN ELECTRICAL PANEL). CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULAR
- MATING LINES (MULTI-WIDE UNITS ONLY).
- STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-WIDE UNITS ONLY).
- INSTALLATION OF INSULATION AT FLOOR, CEILING AND ENDWALLS AT MATING LINES (MULTI-WIDE UNITS ONLY).
- INSTALL R6.5 INSULATION ON ALL PIPING INSTALLED IN UNCON-DITIONAL SPACES.
- INSTALL FIRESTOPPING AT ALL MODULE MATING LINES AT THE MARRIAGE WALL CEILING HEIGHT AND AT THE FLOOR SYSTEM. 10 CRAWL SPACE LIGHT AND SWITCH.
- 11 HVAC SYSTEM CROSSOVER DUCTS AND HVAC SYSTEM.
- 12 RIDGE VENTS MUST BE INSTALLED IN ACCORDANCE WITH THE VENT MANUFACTURERS INSTRUCTIONS.
- 13. PORTABLE FIRE EXTINGUISHER(S)
- 14. STORM PROCTECTION PANELS REQUIRED FOR GLAZED OPENINGS PER FBC SECTION R301.2(2).
- GABLE ENDWALL FRAMING.
- 16. BUILDING SUBJECT TO REVIEW AND APPROVAL OF THE STATE FIR INSPECTOR ON SITE WITH COMPLIANCE WITH CH.633 FIRE SAFETY CODE.
- 7. A/C UNIT 18. A.A.V. (AIR ADMITTANCE VALVE TEST) AFTER DWV TEST
- 19. HVAC COMPANY IS RESPONSIBLE FOR ANY DAMAGE AND REPAIRS TO MODULAR COMPONENTS (I.E. TRUSSES, ELECTRICAL CONDUCTORS PLUMBING, ATTIC INSULATION ETC)
- 20. EXTERIOR GFI'S
- 21. UNIT WILL REQUIRE COMPLIANCE WITH FLORIDA ENERGY CODE

#### **ELEVATION NOTES**

THIS STRUCTURE CANNOT BE LOCATED ON THE UPPER HALF OF AN "ISOLATED HILL, RIDGE OR ESCARPMENT" WHICH SATISFIES ALL OF THE FOLLOWING:

- 1 HILL, RIDGE OR ESCARPMENT IS HIGHER THAN 30 FEET IN EXPOSURE C LOCATIONS AND 60 FEET IN EXPOSURE
- 2 AVERAGE SLOPE OF HILL EXCEEDS 10%.
- 3 THE HILL, RIDGE OR ESCARPMENT HAS NO OBSTRUCTIONS TO WIND MOVEMENT BY TOPOGRAPHIC FEATURES FOR A DISTANCE FROM THE HIGH POINT OF THE HILL. RIDGE OR ESCARPMENT EQUAL TO 50 TIMES THE HEIGHT OF THE HILL, RIDGE OR ESCARPMENT OR ONE MILE, WHICHEVER IS LESS.

HANDICAP RAMP(S), STAIR(S) AND RAILS ARE SITE INSTALLED, DESIGNED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION REVIEW

FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA AND AN 18" X 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION REVIEW AND APPROVAL.

BUILDING ADDRESS AS REQUIRED BY R319.1 TO BE INSTALLED ON SITE BY OTHERS.

THE RAISED SEAL SET OF PLANS ARE ON FILE IN THE THIRD PARTY AGENCY'S OFFICE AS DIRECTED BY THE DBPR.

BUILDING ADDRESS AS REQUIRED BY FRC R319.1 TO BE INSTALLED ON SITE BY OTHERS.

#### DRAWING INDEX:

THE PLANS MAY BE FLIPPED OR MIRRORED. COVER & NOTES PAGE PAGE EXTERIOR ELEVATIONS PAGE OPT EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS MASTER FLOOR PLAN PAGE PAGE PAGE PAGE PAGE OPT MASTER FLOOR PLAN ELECTRICAL LAYOUT OPT ELECTRICAL LAYOUT FLOOR FRAMING WATER SUPPLY WATER SUPPLY WASTE LAYOUT PAGE OPT WASTE LAYOUT PAGE ROOF LAYOUT PAGE PAGE PAGE 10 10A HVAC LAYOUT OPT HVAC LAYOUT CHASSIS PLAN 11 CROSS SECTION PAGE 12 13 SHEARWALL DETAILS PAGE OPT SHEARWALL DETAILS

ATTIC IS DESIGNED FOR 10 PSF LOAD BUT IS NOT INTENDED TO BE USED FOR STORAGE, INSULATION EXTENDS ABOVE THE TOP OF THE BOTTOM CHORD AND COMPRESSION OF THE INSULATION WILL COMPROMISE THE MINIMUM DESIGNED THERMAL VALUE.

#### FOUNDATION:

FOUNDATION IS DESIGNED BY OTHERS. DETAILS CONTAINED IN THESE TYPICAL DRAWINGS ARE SUPPLEMENT AND MUST BE EVALUATED BY FOUNDATION DESIGNER FOR COMPATIABILITY WITH THE FOUNDATION DESIGN. (ON 14'-10 FLOORS MODELS WITH LARGE ROOMS WILL REQUIRE ADDITIONAL PIER BLOCKING DOWN CENTER OF PLOOPS !!! SEAL CE NS

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NOTE: Aug 21, 2019
THE PURCHASER IS RESPONSIBLE TO INSURE THE ATTACHED PLANS

CONFORM TO LOCAL ORIDINANCES IN RESPECT TO BUILDING SIZE,

HEIGHT, SETBACK OR ASTHETICS WHICH IS ENFORCED BY LOCAL

HOME IS STRUCTURE AS REQUIRED BY THE STATE OF FLORIDA

CONSTRUCTION IS A 6/12 PITCHED ROOF ON A SINGLE FRAME.

IS DESIGNED AS A 2-STORY EVEN THOUGH ACTUAL

JURISDICTIONS.

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#### PLUMBING NOTES

- 1. TUB ACCESS PROVIDED UNDER HOME UNLESS OTHERWISE NOTED.
- 2. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUT-OFF VALUES.
- WATER HEATER SHALL HAVE SAFETY PAN WITH 3/4 INCH DRAIN TO EXTERIOR, T&P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FFFT ON A COLD WATER SUPPLY LINE.
- 4. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R-6.5-DWV. R3 INSULATION ON 3/4" AND LARGER PIPES AND HOT WATER PIPES INSTALLED OUTSIDE THE CONDITIONED SPACE.
- 5. DWV SYSTEMS SHALL BE EITHER ABS OR PVC-DWV.
- 6. WATER SUPPLY LINES SHALL BE PEX, CPVC, OR COPPER; WHEN PEX SUPPLY LINES ARE INSTALLED THE MAXIMUM WATER HEATER TEMPERATURE SETTING IS 180°F. THE PEX PIPE SHALL BE INSTALLED ACCORDANCE WITH THE MANUFACTURES LIMITATIONS AND INSTRUCTIONS.
- 7. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- 8. WATER CLOSETS AVERAGE WATER USAGE SHALL NOT EXCEED 1.6 GALLONS
- 9. SHOWER STALLS SHALL BE COVERED WITH NON-ABSORBENT MATERIAL TO A HEIGHT OF 72 INCHES ABOVE THE FINISHED FLOOR.
- 10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F. (48.8°C)
- 11. AIR ADMITTANCE VALVE (AV) SHALL CONFORM TO ASSE 1051. THE VALVES SHALL BE LOCATED A MINIMUM OF 4 INCHES ABOVE THE HORIZONTAL DRAIN OR FIXTURE DRAIN BEING VENTED AND MUST BE INSTALLED IN A WELL VENTILATED SPACES OR BE PROVIDED WITH VENTILATED ACCESS DOORS.
- 12. WATER HAMMER ARRESTORS TO BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED (I.E. DISHWASHERS, CLOTHES WASHERS, ICE MAKERS OR OTHER QUICK CLOSING DEVICES WITH SOLENOID VALVES). ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- 13. THIS UNIT MUST BE CONNECTED TO PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
- 14. SINKS 2.2 GALS AND LAVS 2.2 GALS PER MIN MAX. @ 60 PSI.
- 15. SHOWER HEADS SHALL NOT USE MORE THAN 2.5 GALS/MIN @ 80 PSI PER ANSI STD A 112.18.1M.
- 16. AN APPROVED THERMAL EXPANSION DEVICE SHALL BE SITE INSTALLED IN THE WATER SUPPLY SYSTEM IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. (THIS DEVISE IS REQUIRED WHEN BACK FLOW PREVENTORS, PRESSURE REDÙCING VALVES, CHECK VALVES OR SYSTEM WHICH MAY PREVENT PRESSURE RELIFE
- 17. AN ACCESSIBLE SHUT OFF VALVE SHALL BE PROVIDED AHEAD OF THE FIRST OUTLET OR BRANCH CONNECTED TO THE SERVICE OR DISTRIBUTION PIPE. THIS SHUT OFF VALVE MAY BE SITE INSTALLED.

## DESIGN APPROVAL AGENCY STAMP

DATE 8-22-2019 CERT. NO SMP-056 PLAN NUMBER MFT243-ME764750108R1 APPROVED BY Michael Faller

(signature)

APPROVED BY

#### **ELECTRICAL NOTES:**

- . ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE
- 2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED, INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM STORAGE AREA AS DEFINED BY NEC 410-8(A).
- WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNDERGROUND CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED BY AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC. BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL, SERVICE DISCONNECT (MAIN CIRCUIT BREAKER) AND FEEDERS ARE SITE INSTALLED, DESIGNED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION REVIEW AND APPROVAL.
- ALL CIRCUITS CROSSING OVER MODULAR MATING LINES SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE
- ALL OUTLETS LOCATED WITHIN 6 FEET OF A SINK OR BASIN SHALL BE EQUIPPED WITH GFCI PROTECTION.
- ALL FANS MUST BE DUCTED TO THE EXTERIOR OF THE BUILDING AND TERMINATE AT AN APPROVED VENT CAP.
- 10.SMOKE DETECTORS SHALL BE WIRED SO THAT THE OPERATION OF ANY ONE SMOKE DETECTOR WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHERS (IN ANY ONE DWELLING UNIT).
- 1.PROVIDE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS WHEN ANY FOSSIL FUEL APPLIANCES ARE PROVIDED.
- 12.ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES, THE INTECRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED.
- 3.ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMP OUTLETS IN ALL AREAS ARE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 IN 2014 NEC.
- 4 PROVIDE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE WITH SECTION 406.11 IN 2014 NEC.



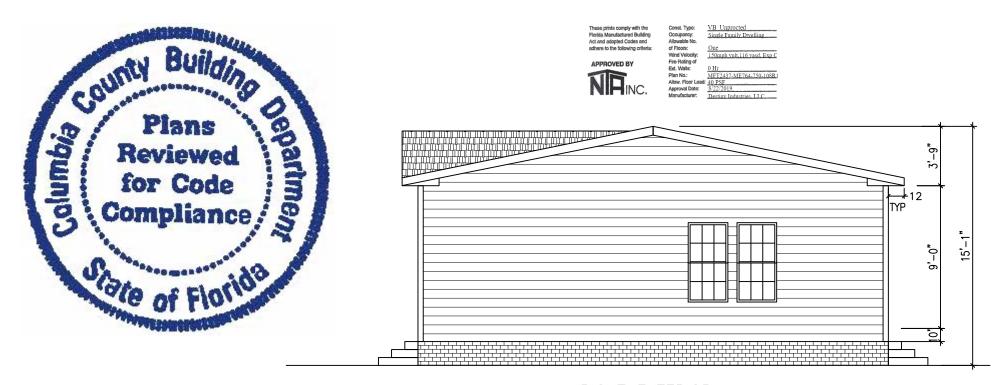
E-MAIL: destinyhomebuilders.com DATE: 7/16/2019 3RD PARTY INSPECTION AGENCY NTA INC 305 NORTH OAKLAND AVE NAPPANEE, IN 46550 Contact: Dave Barts (574–773–2732) CODES: 2017 FBC LABELS: FLORIDA SCALE: NTS DRAWN BY: MODEL:

MFT2437-ME764-750-108R1

COVER/NOTE PAGE



## FRONT EXTERIOR



ATTIC VENTILATION:
CEILING INLET: (29.67X76)X144 = 324708 SQ.IN.
REQUIRED INLET AREA: (.5X162354)/300 = 541.18 SQ.IN.
PROVIDED INLET AREA: (60X2)5 = 600 SQ.IN
600 SQ.IN > 541.18 SQ.IN THEREFORE OK

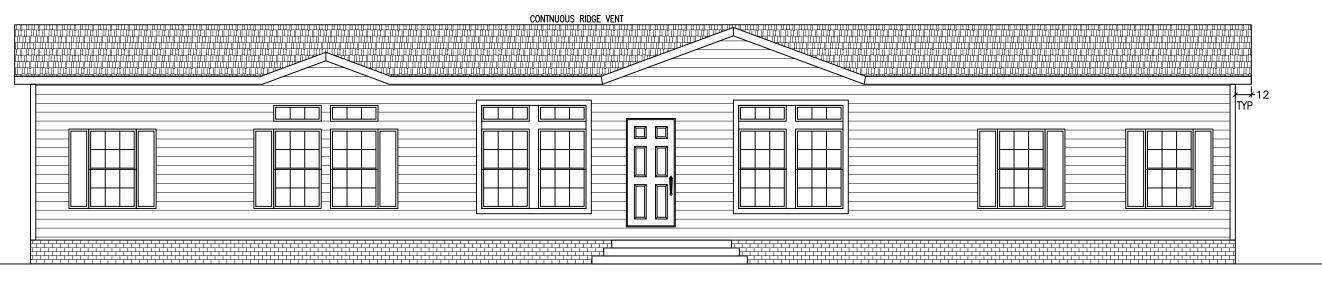
REQUIRED OUTLET AREA: (.5X162354)/300 = 541.18 SQ.IN. RIDGE VENT = 15 SQ.IN. PER FOOT OF AIR FLOW SOFFIT = 5 SQ. IN PER FOOT OF AIR FLOW 36.07 FT OF RIDGE VENT REQUIRED 108.23 FT OF SOFFIT VENT REQUIRED

RIGHT EXTERIOR

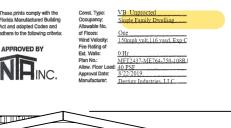
- 1. SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION
- 2. FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE ONE SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA.
- 3. A 22"X36" MINIMUM CRAWL SPACE ACCESS AND A 6 MIL POLY GROUND COVER, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION.
- 4. STEPS, RAILS, & DECKS TO BE DESIGNED AND BUILT BY OTHERS ON SITE, IN ACCORDANCE WILL LOCAL CODES REQUIREMENTS AND INSPECTIONS.

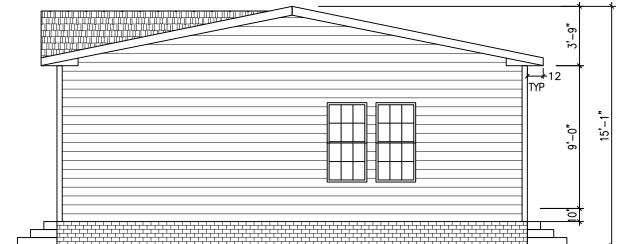


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	BRYANT ROAD E, GA 31778	PHONE: 1-229-985- E-MAIL: destinyhomeb	
DATE:	7/16/2019	3RD PARTY INSPECTION A	GENCY
CODES:	2017 FBC	NTA INC	
LABELS:	FLORIDA	305 NORTH OAKLAND AVE NAPPANEE, IN 46550	
SCALE:	NTS	Contact: Dave Barts (574	ŀ−773−273:
MODEL:			DRAWN BY
MFT2	2437-ME7	64-750-108R1	Jerry Bento
DRAWING:			SHEET
EXT	TERIOR	ELEVATION	2
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### FRONT EXTERIOR





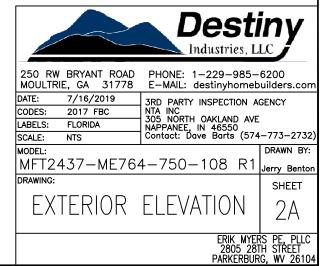
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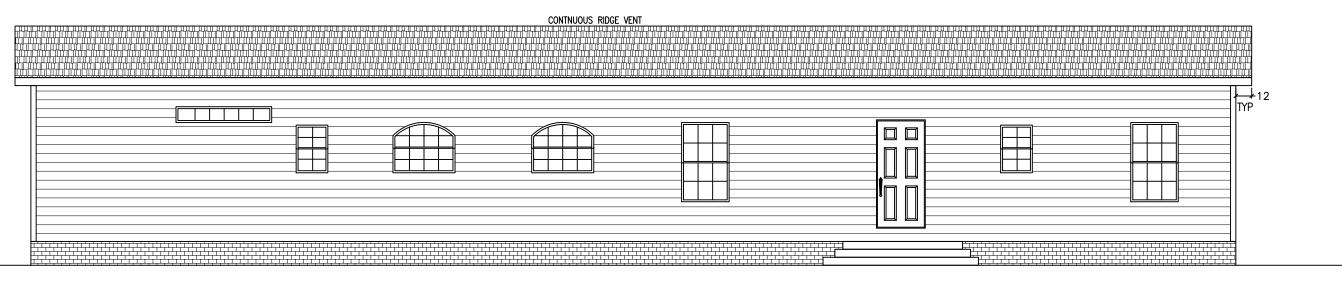
REQUIRED OUTLET AREA: (.5X162354)/300 = 541.18 SQ.IN. RIDGE VENT = 15 SQ.IN. PER FOOT OF AIR FLOW SOFFIT = 5 SQ. IN PER FOOT OF AIR FLOW 36.07 FT OF RIDGE VENT REQUIRED 108.23 FT OF SOFFIT VENT REQUIRED

RIGHT EXTERIOR

- 1. SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION
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- 3. A 22"X36" MINIMUM CRAWL SPACE ACCESS AND A 6 MIL POLY GROUND COVER, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION.
- 4. STEPS, RAILS, & DECKS TO BE DESIGNED AND BUILT BY OTHERS ON SITE, IN ACCORDANCE WILL LOCAL CODES REQUIREMENTS AND INSPECTIONS.







REAR EXTERIOR

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

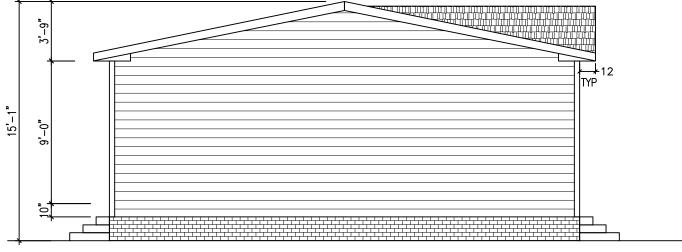
APPROVED BY

NEINC.

Const. Type:
Occupancy:
Allowable No.
of Floors:
Wind Velocity:
Fire Rating of
Ext. Walls:
Plan No.:
Allow. Floor Load:
Approval Date:
Manufacturer:

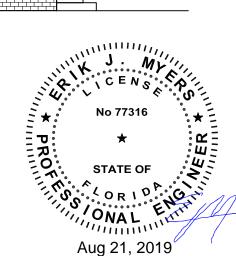
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Single Family Dwelling
One
150mph vult.116 vasd. Exp

0 Hr <u>MFT2437-ME764-750-108R</u> 40 PSF 8/22/2019



LEFT EXTERIOR

- 1. SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION
- 2. FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE ONE SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA.
- 3. A 22"X36" MINIMUM CRAWL SPACE ACCESS AND A 6 MIL POLY GROUND COVER, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION.
- 4. STEPS, RAILS, & DECKS TO BE DESIGNED AND BUILT BY OTHERS ON SITE, IN ACCORDANCE WILL LOCAL CODES REQUIREMENTS AND INSPECTIONS.



Destiny
Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778

DATE: 7/16/2019
CODES: 2017 FBC
LABELS: FLORIDA
SCALE: NTS

MODEL:
MFT2437-ME764-750-108R1

DRAWN BY:

EXTERIOR ELEVATION

CODES: 2017 FBC
STANDARD AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

DRAWN BY:
Jerry Benton

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CODES: 2017 FBC
STANDARD AVE
NAPPANEE, IN 46550
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JERRY BENTON

CODES: 2017 FBC
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JERRY BENTON

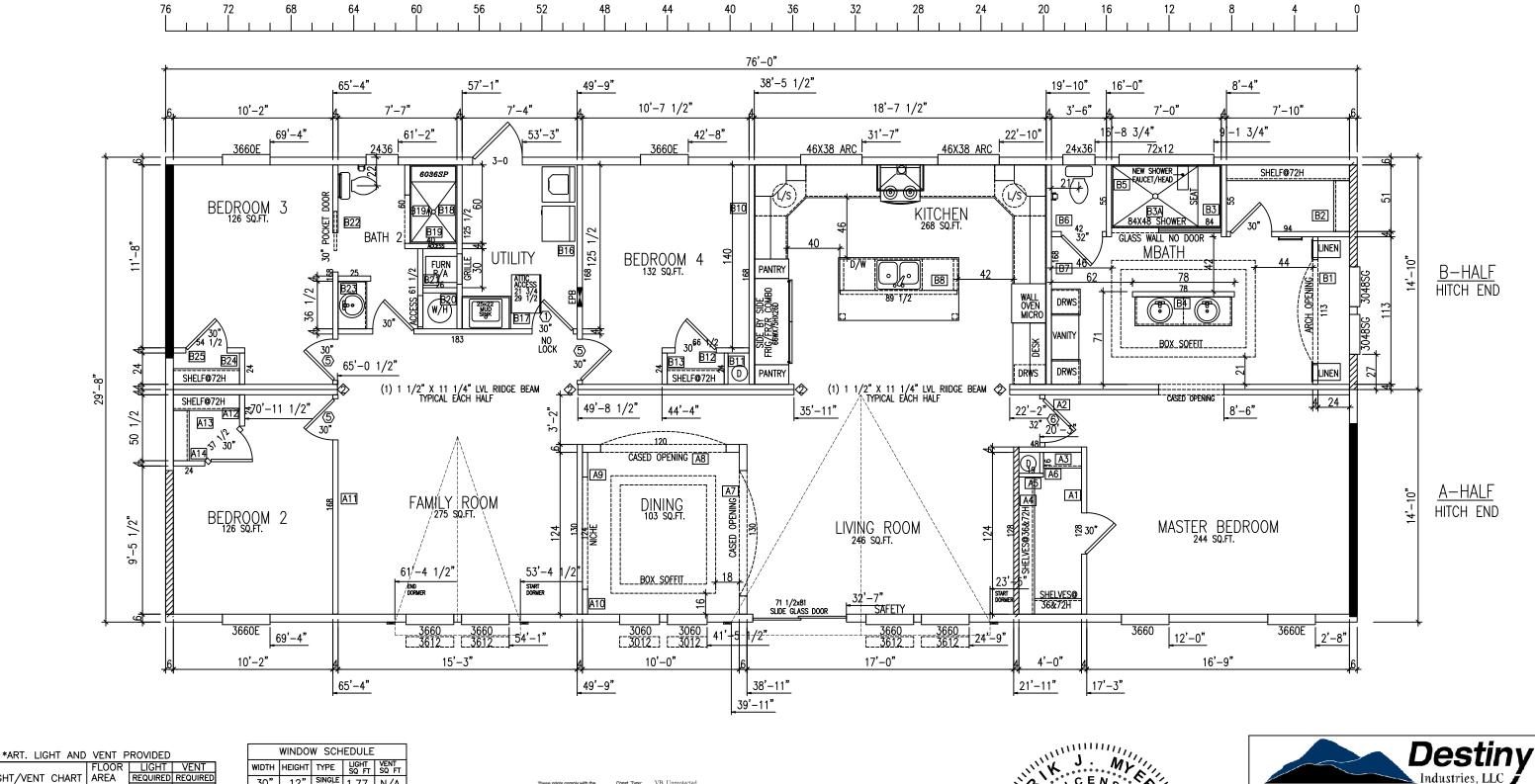
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NAPPANEE, IN 46750
JERRY BENTON

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NAPPANEE, IN 46750
JERRY BENTON
JERRY BEN



AREA REQUIRED REQUIRED SQ. FT. PROVIDED PROVIDED LIGHT/VENT CHART 19.52 9.76 244 MASTER BEDROOM 26.40 12.92 10.08 5.04 126 BEDROOM 2 13.20 6.46 10.08 5.04 BEDROOM 3 126 13.20 6.46 10.56 5.28 BEDROOM 4 132 13.20 6.46 19.68 9.84 LIVING ROOM 246 65.20 30.17 22.00 11.00 FAMILY ROOM 30.70 12.92 21.44 10.72 KITCHEN

103

DINING

\*20.28 \*9.62

8.24 4.12

26.06 10.70

WINDOW SCHEDULE					
WIDTH	HEIGHT	TYPE	LIGHT SQ FT	VENT SQ FT	
30"	12"	SINGLE HUNG	1.77	N/A	
30"	30"	SINGLE HUNG	5.86	1.92	
30"	48"	SINGLE HUNG	8.82	4.33	
30"	60"	SINGLE HUNG	10.88	5.35	
36"	12"	SINGLE HUNG	2.15	N/A	
36"	36"	SINGLE HUNG	7.51	3.56	
36"	40"	SINGLE HUNG	8.48	4.05	
36"	60"	SINGLE HUNG	13.20	6.46	
66"	32"	SINGLE HUNG	9.07	1.72	
71"	81"	SINGLE HUNG	34.50	17.25	
72"	12"	SINGLE HUNG	4.30	N/A	
46"	38"	SINGLE HUNG	10.14	4.81	
24"	36"	SINGLE HUNG	4.87	2.33	

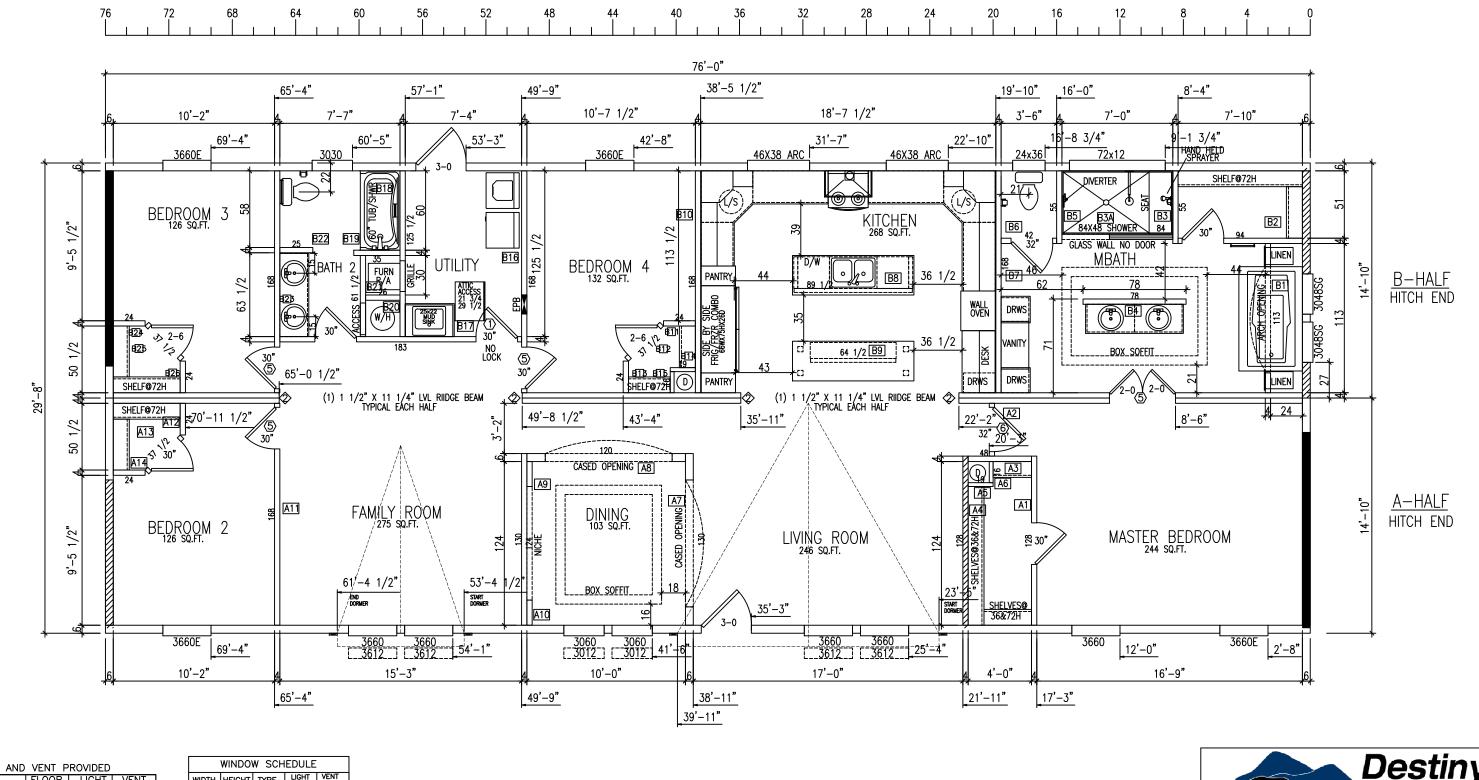
APPROVED BY NAINC. Const. Type: Occupancy: Allowable No. of Floors: Wind Velocity Fire Rating of Ext. Walls: Plan No.: Allow. Floor L Approval Date

2254 TOTAL SQUARE FOOTAGE 2254 HEATED & COOLED

267.43 SQ FT GLAZING







\*ART. LIGHT AND VENT PROVIDED

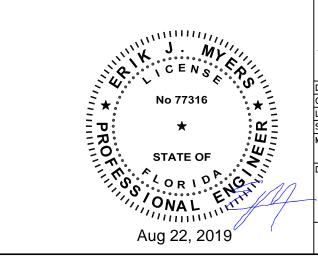
	FLOOR	LIGHT	VENT
LIGHT/VENT CHART	AREA	REQUIRED	REQUIRED
•	SQ. FT.	PROVIDED	PROVIDED
MASTER BEDROOM	244	19.52	9.76
MASTER BEDICOOM	244	26.40	12.92
BEDROOM 2	106	10.08	5.04
DEDROOM 2	126	13.20	6.46
DEDDOOM 7	106	10.08	5.04
BEDROOM 3	126	13.20	6.46
BEDROOM 4	170	10.56	5.28
BEDROOM 4	132	13.20	6.46
LIVING ROOM	246	19.68	9.84
LIVING ROOM	240	26.40	12.92
FAMILY ROOM	275	22.00	11.00
FAMILT ROOM	2/5	30.70	12.92
KITCHEN	200	21.44	10.72
KITCHEN	268	*20.28	*9.62
DINING	103	8.24	4.12
DIMING	103	26.06	10.70

WINDOW SCHEDULE					
WIDTH	HEIGHT	TYPE	LIGHT SQ FT	VENT SQ FT	
30"	12"	SINGLE HUNG	1.77	N/A	
30"	30"	SINGLE HUNG	5.86	1.92	
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36"	12"	SINGLE HUNG	2.15	N/A	
36"	36"	SINGLE HUNG	7.51	3.56	
36"	40"	SINGLE HUNG	8.48	4.05	
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66"	32"	SINGLE HUNG	9.07	1.72	
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72"	12"	SINGLE HUNG	4.30	N/A	
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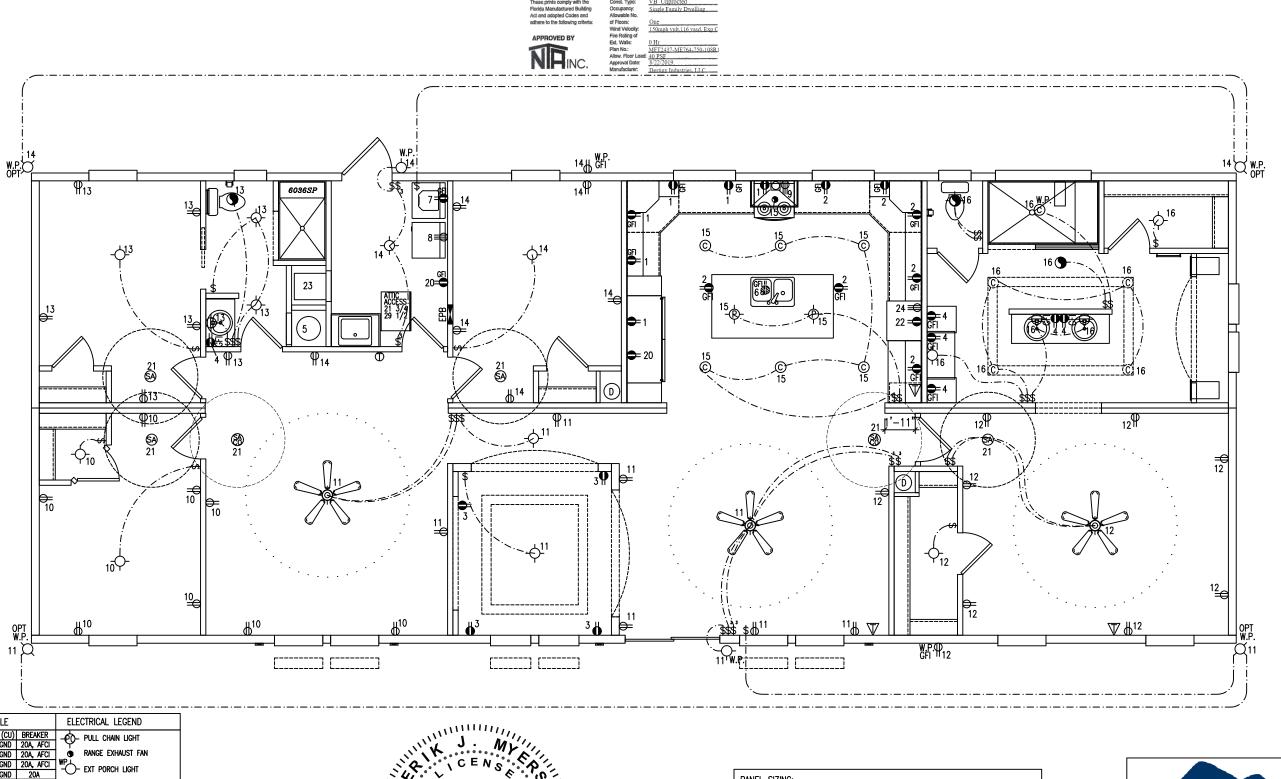
NA INC.

2254 TOTAL SQUARE FOOTAGE 2254 HEATED & COOLED

267.43 SQ FT GLAZING







	ELECTRICAL CIRC	UIT SCHEDULE		ELECTRICAL LEGEND
CIR	DESCRIPTION	COND. SIZE (CU)	Breaker	-PO- PULL CHAIN LIGHT
1	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI	Y
2	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI	RANGE EXHAUST FAN
3	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI	WP - 
4	BATH	12-2 W/ GND	20A	🔾 =
5	WATER HEATER	10-2 W/ GND	25 2P	FLUORESCENT LIGHT
6	DISHWASHER (OPT)	12-2 W/ GND	20A, AFCI	INCANDESCENT LIGHT
7	WASHER	12-2 W/ GND	20A, AFCI	<u> </u>
8	DRYER	10-3 W/ GND	30 2P	EXHAUST FAN
9	RANGE	8-3 W/ GND	40 2P	PEDANT LIGHT
10	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	PANEL BOX
11	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	1
12	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	SA) SMOKE DETECTOR
13	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	SMOKE DETECTOR CARRON MONOYIDE
14	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	I - ONNOON MONONDE
15	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	C CAN LIGHT
16	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	= 20 AMP DUPLEX RECPTACLE
17	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	15 AMP DUPLEX RECPTACLE
18	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	
19	COOK TOP	10-3 W/ GND	30 2P	240V RECEPT
20	FREEZER (OPT)	12-2 W/ GND	20A, AFCI	\$ SWITCH
21	SMOKE DETECTORS	14-3 W/ GND	15A, AFCI	\$3 3-WAY SWITCH
22	MICROWAVE (OPT)	12-2 W/ GND	20A, AFCI	T PHONE JACK
23	HVAC	PER MFG INSTRU		<u></u>
24	WALL OVEN	10-3 W/ GND	30 2P	CJ CABLE JACK
25	COOK TOP	10-3 W/ GND	30 2P	
26	TANKLESS W/H	PER MFG INSTRU		-COMBO LIGHT AND VENT
27	TANKLESS W/H	PER MFG INSTRU	<u>JCTIONS</u>	Compo Com AND VENT

No 77316

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No 77316

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STATE OF

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Aug 21, 2019

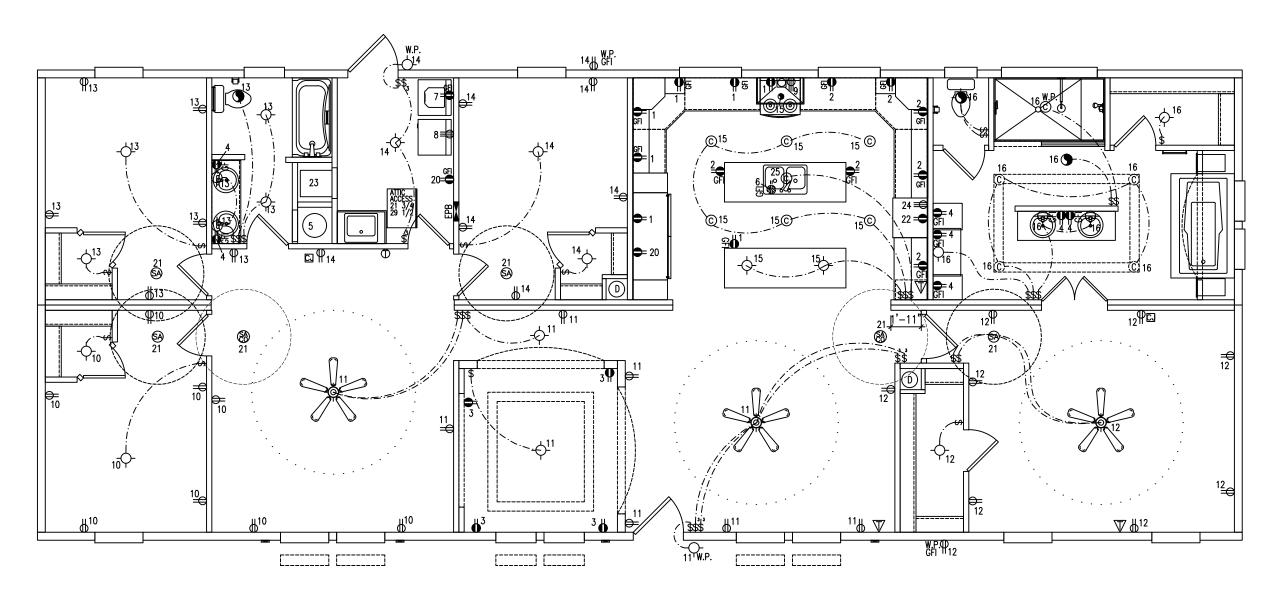
3-WAY SWITCHES WILL HAVE 14-3 OR 12-3 WIRE FOR SWITCH LEGS.

75% OF LAMPS IN ALL PERMANENTLY INSTALLED LIGHTING FIXTURES MUST BE HIGH EFFICANCY LAMPS.

PANEL SIZING:	
2254 SQ. FT. X 3 WATTS/SQ. FT.	= 6.8 KW
3-20 AMP APPLIANCES CKTS	= 4.5 KW
RANGE CIRCUIT	= 13 KW
WATER HEATER CIRCUIT	= 4.5 KW
DISHWASHER CIRCUIT	= 1.4 KW
WASHER CIRCUIT	= 1.5 KW
DRYER CIRCUIT	= 5.5 KW
GARBAGE DISPOSAL	<u>= 1.9 KW</u>
TOTAL	= 40.1 KW
FIRST 10KW @ 100%	= 10 KW
REMAINDER @ 40% ( 30.1 X 0.40)	= 12.0 KW
HVAC (ASSUMED 20.90)	= 20.0 KW
TOTAL	= 42.0 KW = 42,000 WATTS
42,000 WATTS/240 VOLTS	= 175.1 AMPS = 200 AMP SERVICE

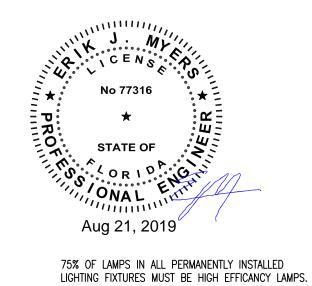
	Desti Industries, L		
250 RW BRYANT ROAD MOULTRIE, GA 31778	PHONE: 1-229-985- E-MAIL: destinyhomeb		
DATE: 7/16/2019	3RD PARTY INSPECTION A	GFNCY	
CODES: 2017 FBC	NTA INC		
LABELS: FLORIDA	305 NORTH OAKLAND AVE NAPPANEE, IN 46550		
SCALE: NTS	Contact: Dave Barts (574	-773-2732)	
MODEL:		DRAWN BY:	
MFT2437-ME76	64-750-108R1	Jerry Benton	
DRAWING:		SHEET	
ELECTRICA	L LAYOUT	5	

APPROVED BY NAINC.



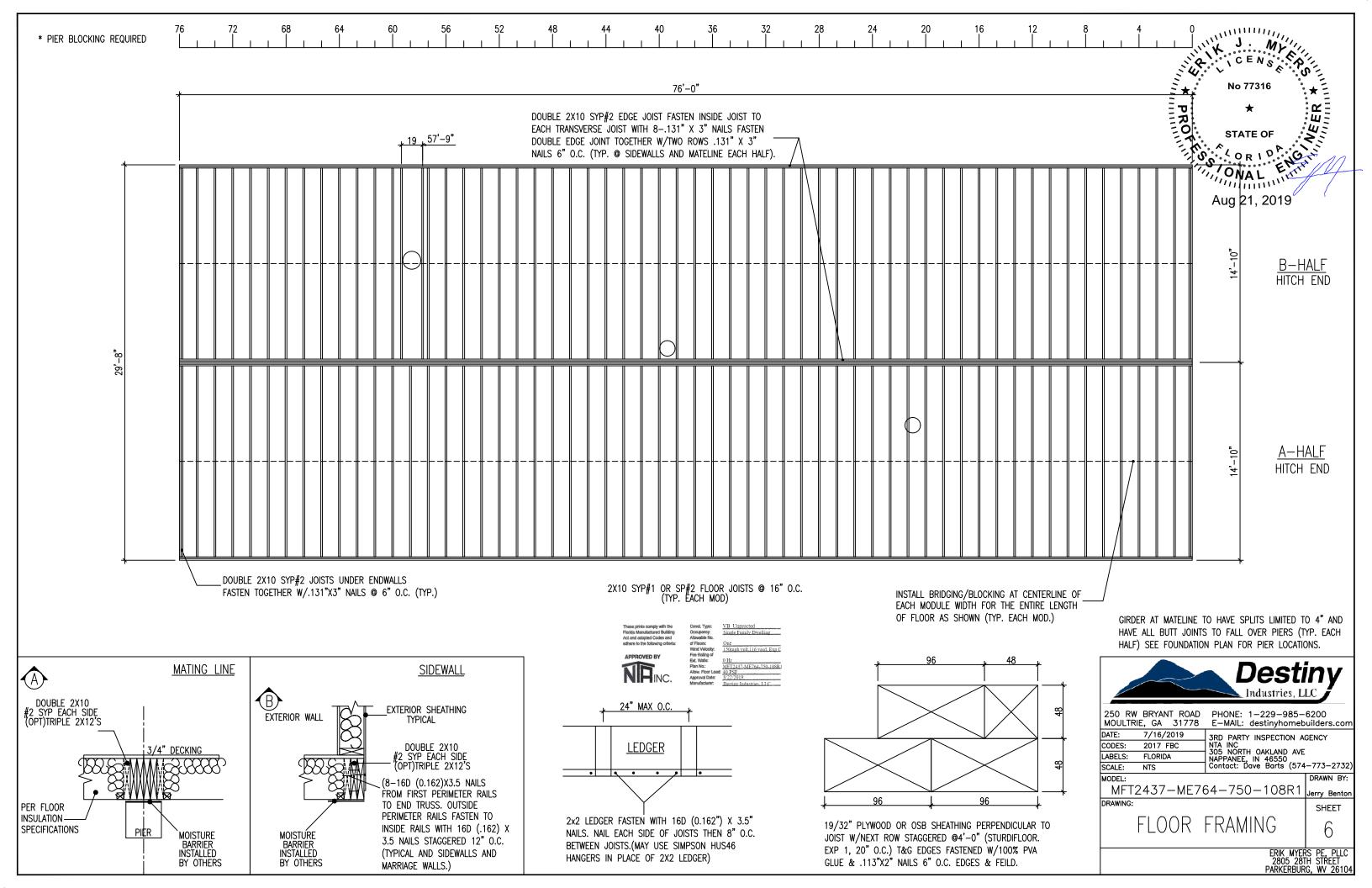
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CIR	DESCRIPTION	COND. SIZE (CU)	Breaker	-P)- PULL CHAIN LIGHT
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2	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI	RANGE EXHAUST FAN
3	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI	WP - 
4	BATH	12-2 W/ GND	20A	•
5	WATER HEATER	10-2 W/ GND	25 2P	FLUORESCENT LIGHT
6	DISHWASHER (OPT)	12-2 W/ GND	20A, AFCI	-()- INCANDESCENT LIGHT
7	WASHER	12-2 W/ GND	20A, AFCI	<u> </u>
8	DRYER	10-3 W/ GND	30 2P	EXHAUST FAN
9	RANGE	8-3 W/ GND	40 2P	PEDANT LIGHT
10	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	🕒
11	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	
12	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	SA) SMOKE DETECTOR
13	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	SMOKE DETECTOR
14	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	CALIDON MONONIDE
15	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	C CAN LIGHT
16	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	20 AMP DUPLEX RECPTACLE
17	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	15 AMP DUPLEX RECPTACLE
18	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI	_
19	COOK TOP	10-3 W/ GND	30 2P	I <del>≡</del>
20	FREEZER (OPT)	12-2 W/ GND	20A, AFCI	S SWITCH
21	SMOKE DETECTORS	14-3 W/ GND	15A, AFCI	\$ 3-WAY SWITCH
22	MICROWAVE (OPT)	12-2 W/ GND	20A, AFCI	T PHONE JACK
23	HVAC	PER MFG INSTRU		l <u></u>
24	WALL OVEN	10-3 W/ GND	30 2P	CJ CABLE JACK
25	COOK TOP	10-3 W/ GND	30 2P	① THERMOSTAT
26	TANKLESS W/H	PER MFG INSTRU		-COMBO LIGHT AND VENT
27	TANKLESS W/H	PER MFG INSTRU	JCTIONS	COMBO LIGHT AND VENT

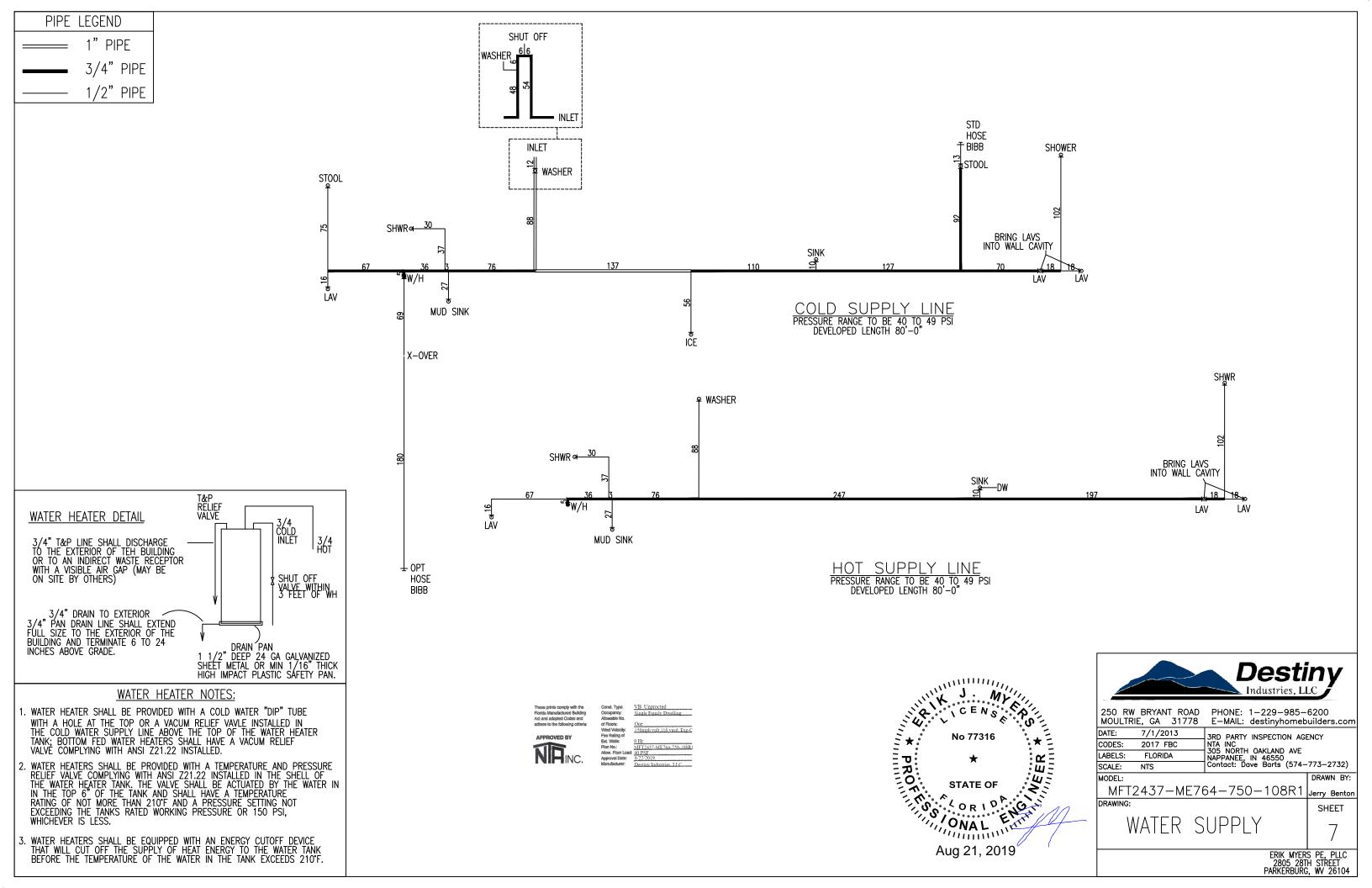
3-WAY SWITCHES WILL HAVE 14-3 OR 12-3 WIRE FOR SWITCH LEGS.

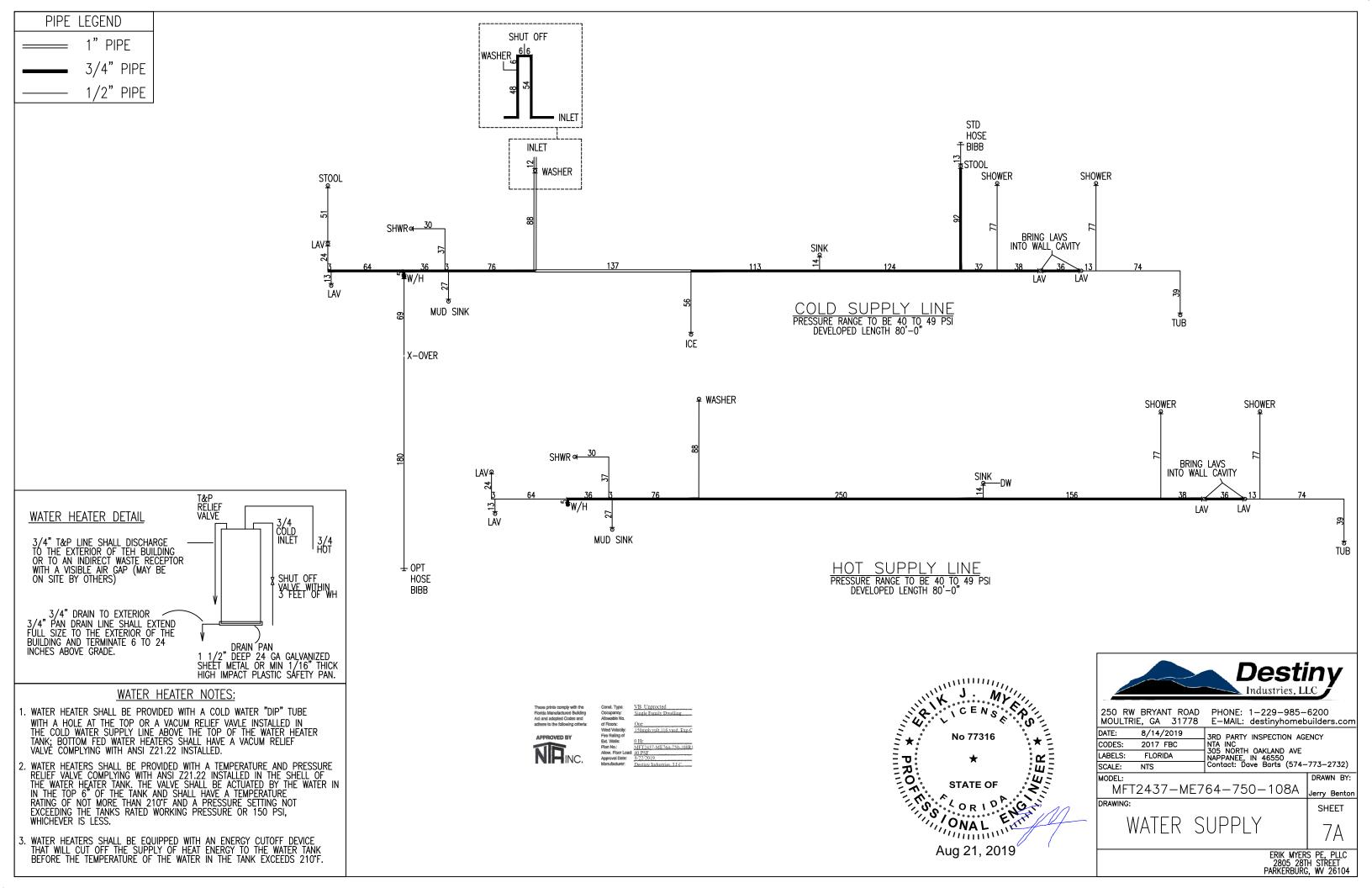


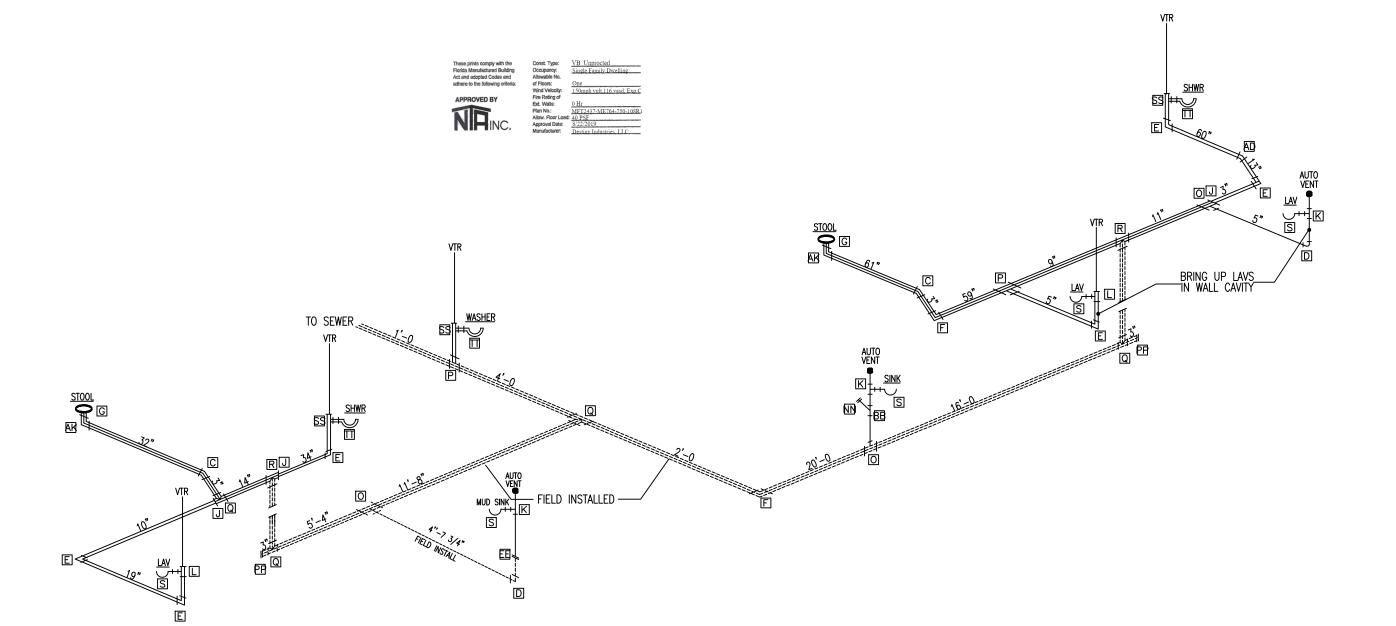
PANEL SIZING:	0.0 1411
2254 SQ. FT. X 3 WATTS/SQ. FT.	
3-20 AMP APPLIANCES CKTS	= 4.5 KW
RANGE CIRCUIT	= 13 KW
WATER HEATER CIRCUIT	= 4.5 KW
DISHWASHER CIRCUIT	= 1.4 KW
WASHER CIRCUIT	= 1.5 KW
DRYER CIRCUIT	= 5.5 KW
GARBAGE DISPOSAL	<u>= 1.9 KW</u>
TOTAL	= 40.1 KW
FIRST 10KW @ 100%	= 10 KW
REMAINDER @ 40% ( 30.1 X 0.40)	= 12.0 KW
HVAC (ASSUMED 20.90)	= 20.0 KW
TOTAL	= 42.0 KW = 42,000 WATTS
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		Desti Industries, L	
	W BRYANT ROAD RIE, GA 31778	PHONE: 1-229-985- E-MAIL: destinyhomeb	
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SCALE:	NTS	Contact. Dave Barts (374	
MODEL: MFT2	437-ME76	4-750-108 R1	DRAWN BY: Jerry Benton
DRAWING:	OPTI	ONAL	SHEET
El	_ECTRIC <i>A</i>	AL LAYOUT	5A
		2805 28	RS PE, PLLC TH STREET G, WV 26104





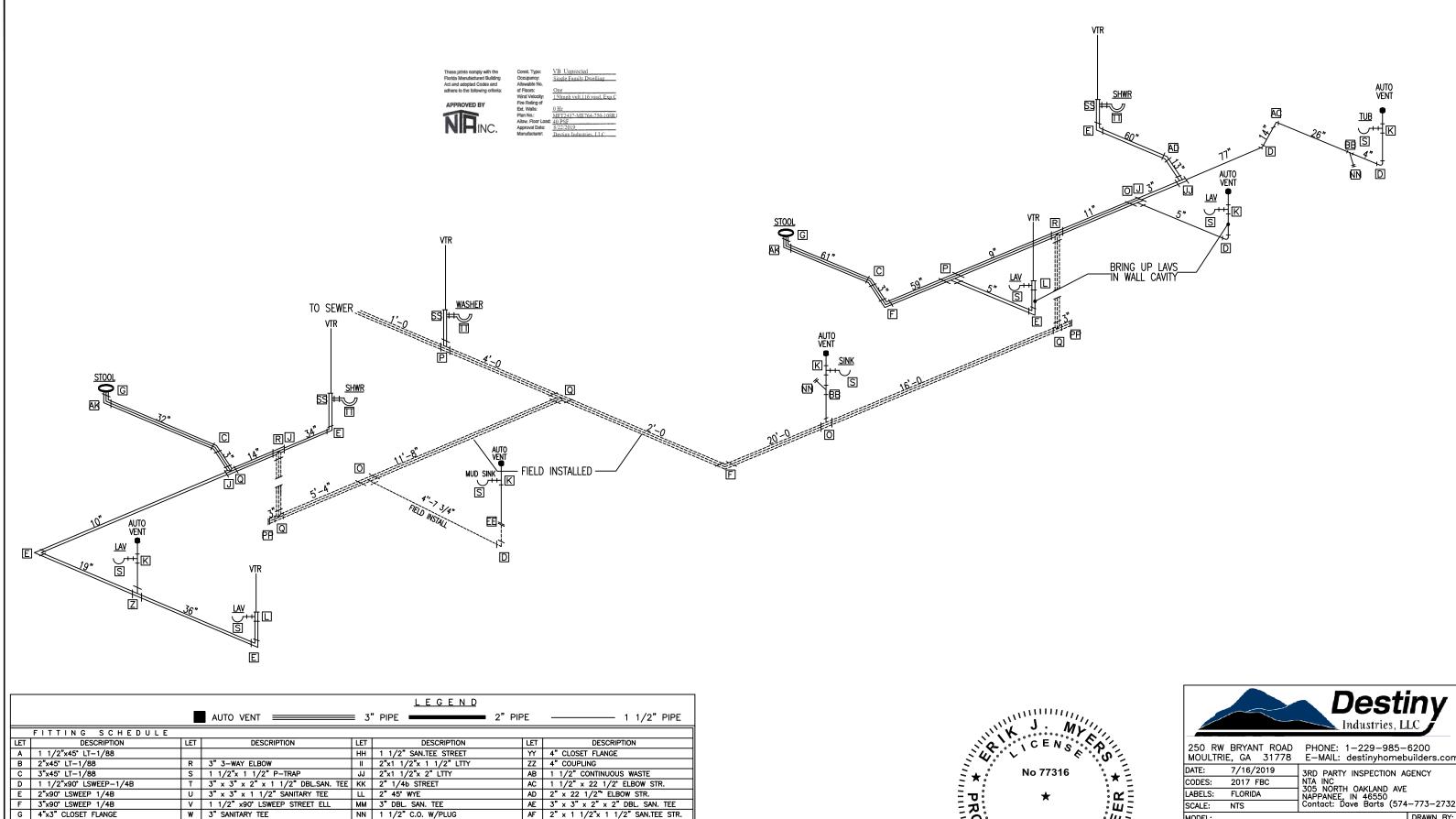




					<u>L E G E N D</u>		
			AUTO VENT	≡ 3'	' PIPE 2" PIF	PΕ	1 1/2" PIPE
	FITTING SCHEDULE						
LET	DESCRIPTION	LET	DESCRIPTION	LET	DESCRIPTION	LET	DESCRIPTION
Α	1 1/2"x45° LT-1/88			Ξ	1 1/2" SAN.TEE STREET	YY	4" CLOSET FLANGE
В	2"x45* LT-1/88	R	3" 3-WAY ELBOW	=	2"x1 1/2"x 1 1/2" LTTY	ZZ	4" COUPLING
С	3"x45° LT-1/88	S	1 1/2"x 1 1/2" P-TRAP	JJ	2"x1 1/2"x 2" LTTY	AB	1 1/2" CONTINUOUS WASTE
D	1 1/2"x90° LSWEEP-1/4B	T	3" x 3" x 2" x 1 1/2" DBL.SAN. TEE	KK	2" 1/4b STREET	AC	1 1/2" x 22 1/2° ELBOW STR.
Ε	2"x90" LSWEEP 1/4B	U	3" x 3" x 1 1/2" SANITARY TEE	J	2" 45° WYE	AD	2" x 22 1/2" ELBOW STR.
F	3"x90" LSWEEP 1/4B	٧	1 1/2" x90° LSWEEP STREET ELL	ММ	3" DBL. SAN. TEE	AE	3" x 3" x 2" x 2" DBL. SAN. TEE
G	4"x3" CLOSET FLANGE	W	3" SANITARY TEE	NN	1 1/2" C.O. W/PLUG	AF	2" x 1 1/2"x 1 1/2" SAN.TEE STR.
Н	2" x 1 1/2" FLUSH BUSH.	Х	3"x 3"x 1 1/2" WYE	00	2" C.O. W/ PLUG	AG	2" x 1 1/2"x 1 1/2" 3-WAY ELBOW
-1	3" x 1 1/2" FLUSH BUSH.	Υ	2" 3-WAY ELBOW	PP	3" C.O. W/ PLUG	AH	3" x 22 1/2° 1/168 ELB
J	3" x 2" FLUSH BUSH.	Z	2" x 2" x 1 1/2" LTTY.	g	2" x 2" x 1 1/2" x WYE REDUCING	Al	1 1/2" 3-WAY ELBOW
Κ	1 1/2" SANITARY TEE	AA	3" x 3" x 2" TEE	RR	1 1/2" x 1/4" BEND	AJ	2" x 22 1/2° 1/168 ELBOW
L	2" x 1 1/2" x 1 1/2" SANITARY TEE	BB	1 1/2" x 45° WYE	SS	2" x 1 1/2" x 2" SAN. TEE	AK	4" x 3" CLOSET BEND STR.
М	1 1/2" LTTY	cc	2" x 90° LSWEEP STREET ELL	П	2" P-TRAP		(CUT DOWN 1.5")
N	2" LΠΥ	DD	1 1/2" x 45° STREET 1/88	UU	2" x 45° 1/8b STREET	AL	3" x 3" x 3" WYE
0	3" x 3" x 1 1/2" LTTY	EE	1 1/2" COUPLING	W	2" COUPLING	AM	3" 1/4" BEND
Р	3" x 3" x 2" LTTY	FF	3" COUPLING	ww	3" x 45° 1/8b STREET	AN	2" x 3" PIPE INCREASER
Q	3" LTTY	GG	1 1/2" x P-TRAP @ WASHER	XX	2" x SANITARY TEE	A0	3" x 3" x 2" WYE







AG 2" x 1 1/2"x 1 1/2" 3-WAY ELBOW

AH 3" x 22 1/2° 1/168 ELB

AJ 2" x 22 1/2 1/168 ELBOW

AK 4" x 3" CLOSET BEND STR.

Al 1 1/2" 3-WAY ELBOW

(CUT DOWN 1.5")

AM 3" 1/4" BEND

3" x 3" x 3" WYE

AN 2" x 3" PIPE INCREASER

AO 3" x 3" x 2" WYE

H 2" x 1 1/2" FLUSH BUSH.

I 3" x 1 1/2" FLUSH BUSH.

L 2" x 1 1/2" x 1 1/2" SANITARY TEE BB 1 1/2" x 45" WYE

J 3" x 2" FLUSH BUSH.

K 1 1/2" SANITARY TEE

0 3" x 3" x 1 1/2" LTTY

P 3" x 3" x 2" LTTY

M 1 1/2" LTTY

Q 3" LTTY

X 3"x 3"x 1 1/2" WYE

Z 2" x 2" x 1 1/2" LTTY.

CC 2" x 90° LSWEEP STREET ELL

GG 1 1/2" x P-TRAP @ WASHER

1 1/2" x 45" STREET 1/88

Y 2" 3-WAY ELBOW

AA 3" x 3" x 2" TEE

EE 1 1/2" COUPLING

FF 3" COUPLING

00 2" C.O. W/ PLUG

PP 3" C.O. W/ PLUG

RR 1 1/2" x 1/4" BEND SS 2" x 1 1/2" x 2" SAN. TEE TT 2" P-TRAP

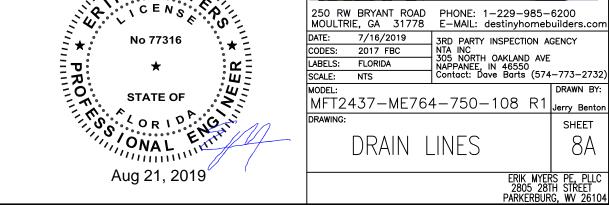
UU 2" x 45° 1/8b STREET

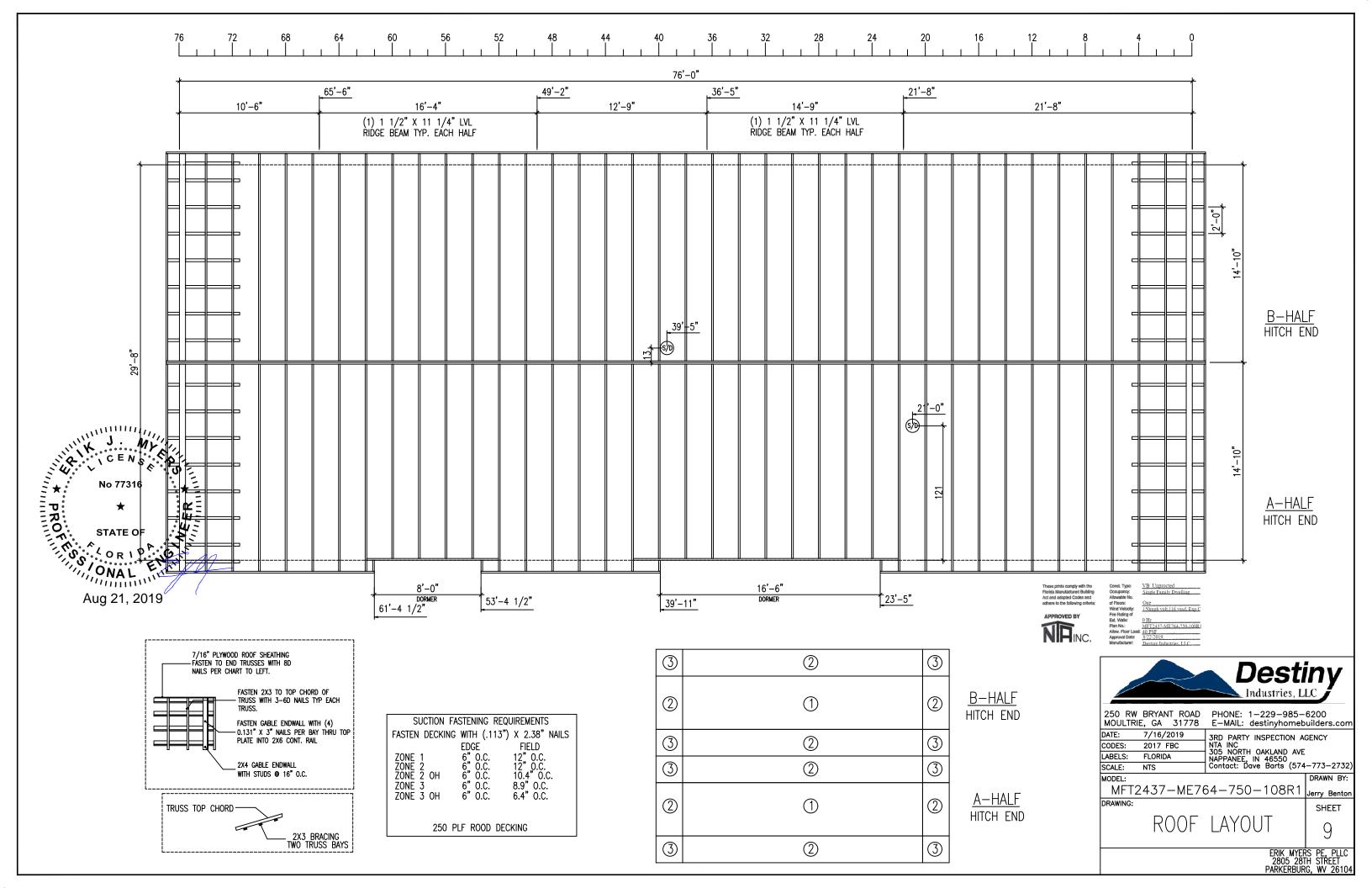
WW 3" x 45° 1/8b STREET

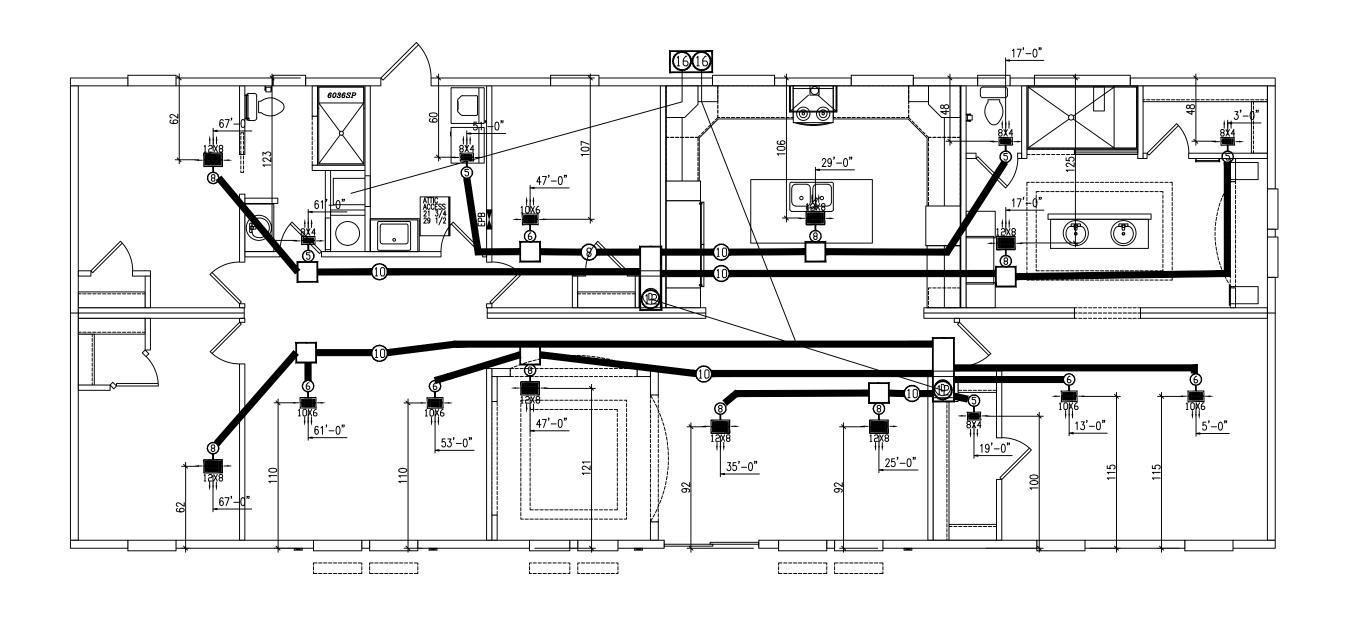
XX 2" x SANITARY TEE

W 2" COUPLING

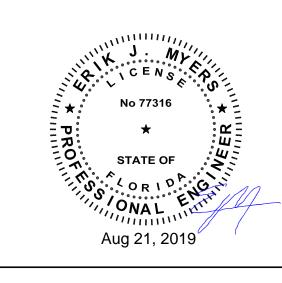
QQ 2" x 2" x 1 1/2" x WYE REDUCING







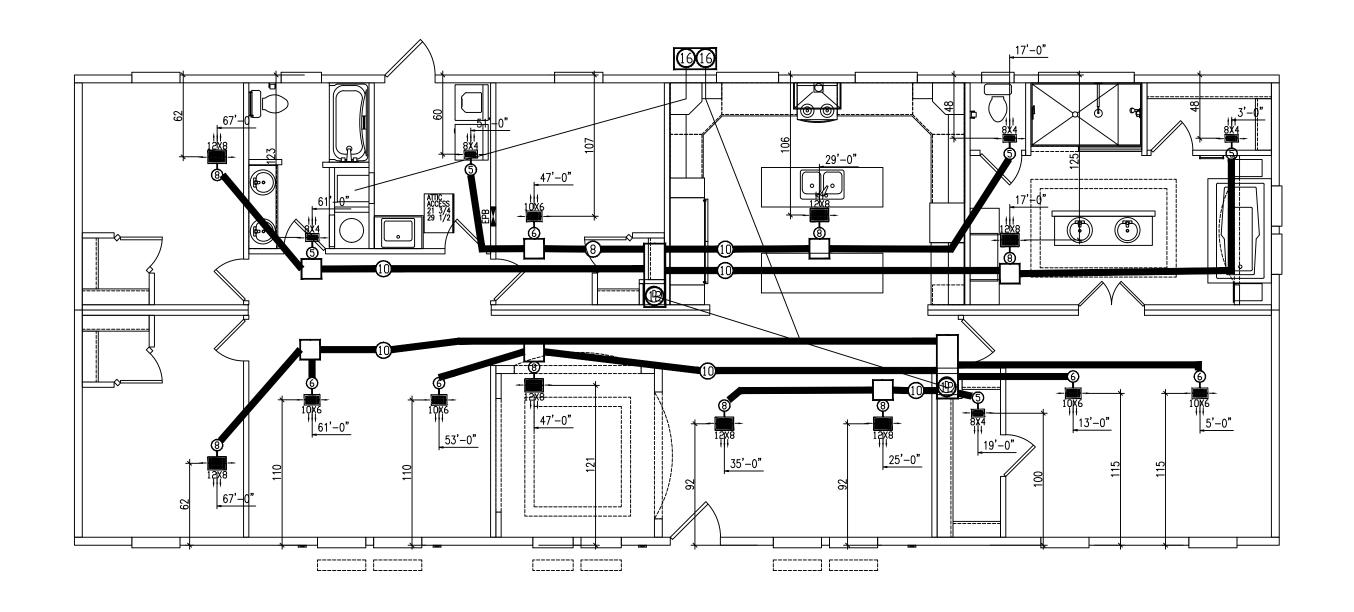
APPROVED BY NET





SHEET

HVAC LAYOUT



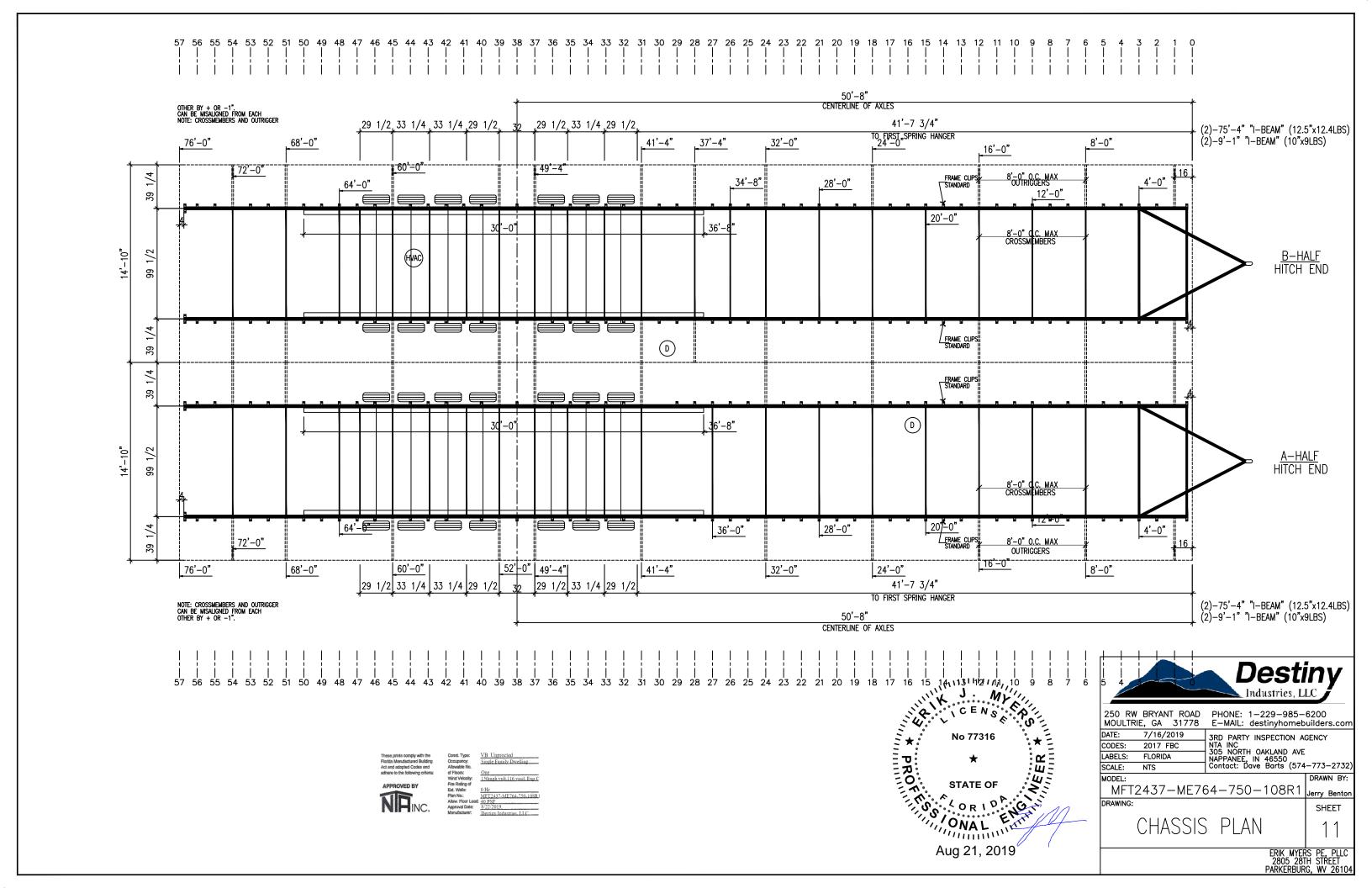
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria;

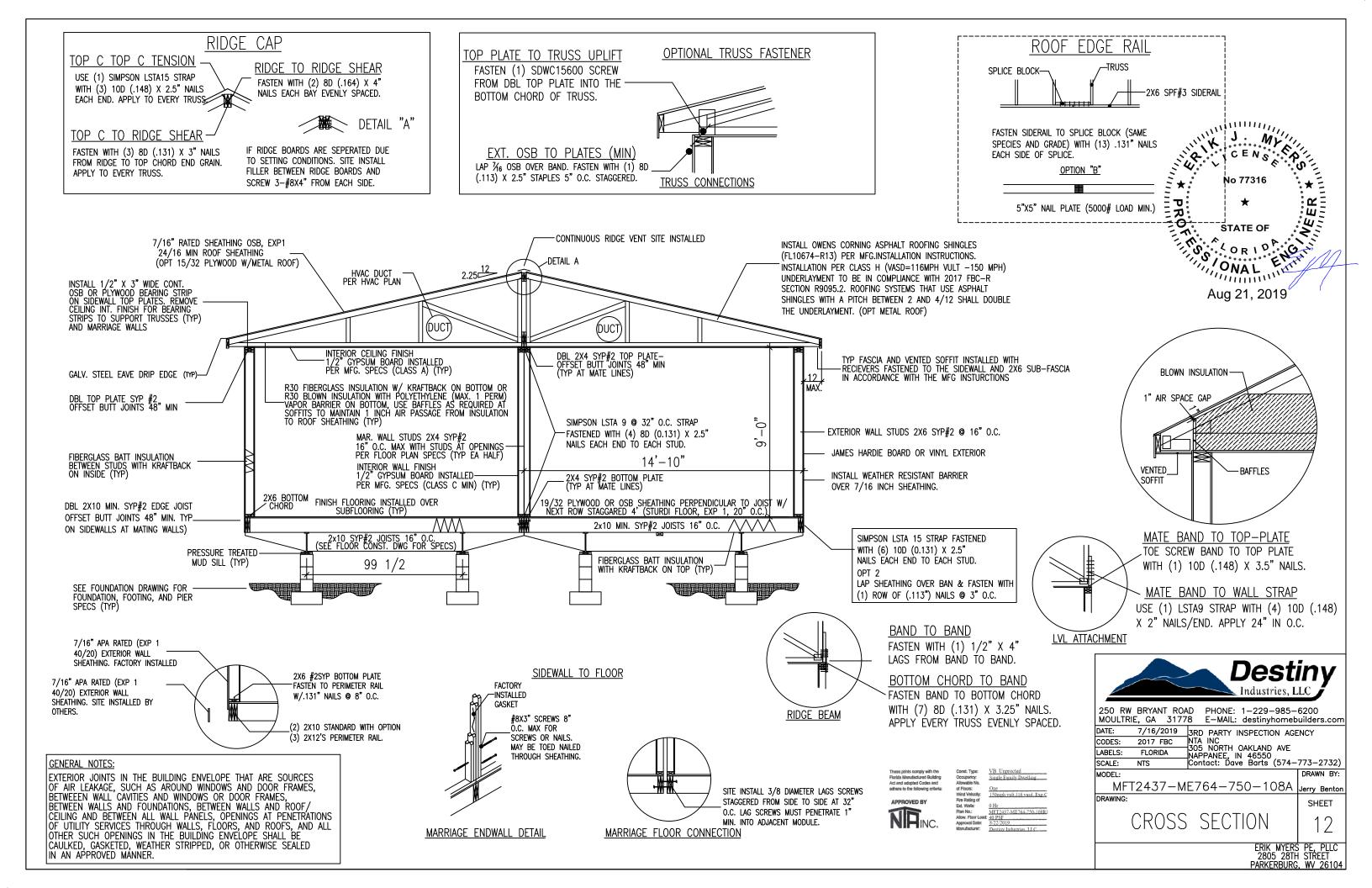
APPROVED BY NET

onest Type:
Coupanery:
Covable No.
Fiscors:
Ind Velocity:









SHEARWALL	PLF	SHEARWALL DESCRIPTION	EDGES	FIELD
1	123	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
<b>②</b>	84	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
<b>③</b>	169	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
4	125	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.

FASTEN SHEATHING OVER TOP PLATES AND FASTEN WITH 0.113" X 2.375" NAILS AT 4" O.C.

O = TIE SHEARWALLS STUDS/CHORDS TO FLOOR BAND

BLOCKING REQUIRED AT MARRIAGE WALL OPENINGS

= TIE SHEARWALLS CHORDS/COLUMNS TO GROUND FOR UPLIFT SHOWN BLOCK RIM JOIST AT STRAP LOCATIONS FOR ON FRAME OPTION

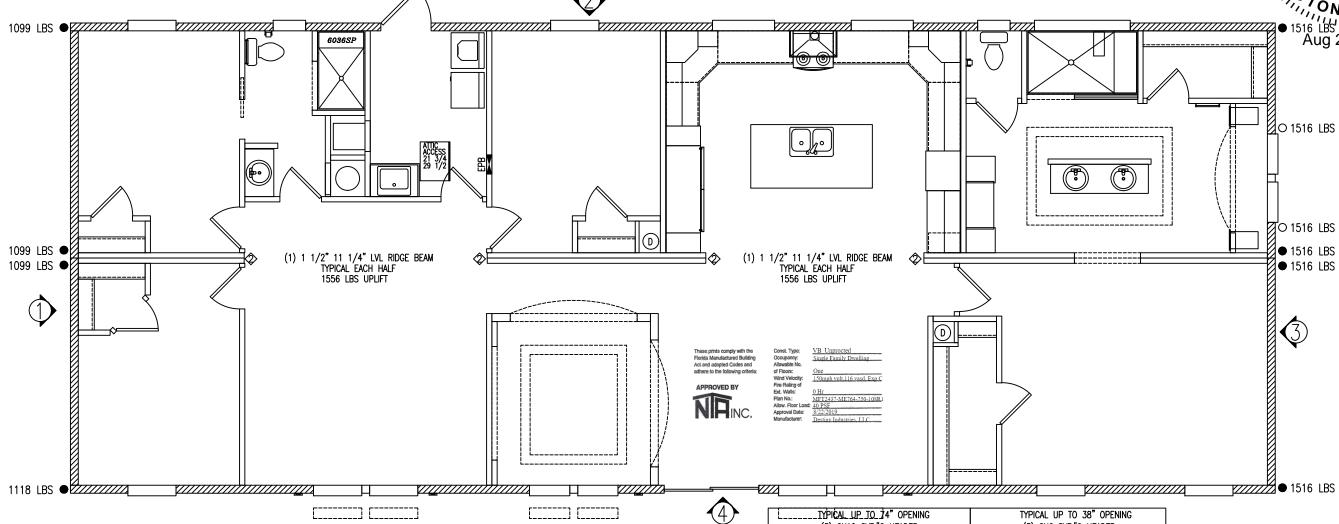
SIMPSON LSTA9 = 740 LBS SIMPSON LSTA12 = 925 LBS SIMPSON LSTA15 = 1,110 LBS SIMPSON MSTA12 = 940 LBS

SIMPSON CMST12 = 38" LONG 9,215 LBS SIMPSON CMST14 = 30" LONG 6,475 LBS



J.

Aug 21, 2019



WALL 1

GABLE END PLATE TO TOP PLATE

FASTENING OPTIONS .131" TOE NAIL PER BAY

#8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) Fastening options .131" Toe Nail Per Bay

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS) SHEATHING TO FLOOR BAND (WITHOUT STRAPS) FASTENING OPTIONS

WALL 2

TRUSS TO TOP PLATE FASTENING OPTIONS .131" TOE NAIL PER BAY #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) FASTENING OPTIONS .131" TOE NAIL PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

FASTENING OPTIONS 4" O.C. .113" NAILS

WALL 3

GABLE END PLATE TO TOP PLATE FASTENING OPTIONS .131" TOE NAIL PER BAY

#8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) FASTENING OPTIONS .131" TOE NAIL PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

GABLE END PLATE TO TOP PLATE FASTENING OPTIONS .131" TOE NAIL PER BAY

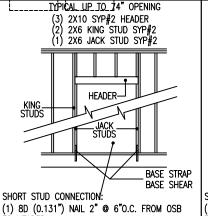
3 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) FASTENING OPTIONS 1 .131" TOE NAIL PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS) FASTENING OPTIONS 3" O.C. .113" NAILS

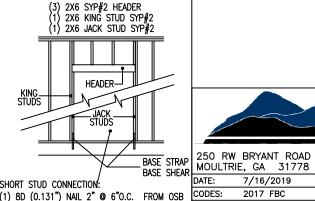


(1) 8D (0.131") NAIL 2" @ 6"O.C. FROM OSB TÓ HEADER

**HEADER CONNECTION:** (13) 8D (0.131") X 3" KINGS TO HEADER PLYS.

BASE STRIP: (1) LSTA15 STRAP FROM KING/JACK COLUMNS TO BAND.

BASE SHEAR: (12) 8D (0.131") X 3" NAILS FROM BASE TO CING / JACK COLLIMNS



(1) 8D (0.131") NAIL 2" @ 6"O.C. FROM OSB TÓ HEADER

HEADER CONNECTION: (7) 8D (0.131") X 3" KINGS TO HEADER PLYS.

(1) LSTA15 STRAP FROM KING/JACK COLUMNS TÓ BAND.

BASE SHEAR: (7) 8D (0.131") X 3" NAILS FROM BASE TO KING/JACK COLUMNS.

Destiny Industries, LLC 250 RW BRYANT ROAD PHONE: 1-229-985-6200

E-MAIL: destinyhomebuilders.cor

3RD PARTY INSPECTION AGENCY NTA INC 305 NORTH OAKLAND AVE NAPPANEE, IN 46550 Contact: Dave Barts (574-773-2732) 7/16/2019 CODES: 2017 FBC ABELS: FLORIDA SCALE: NTS DRAWN BY:

MODEL: MFT2437-ME764-750-108R1 DRAWING: SHEET

SHEARWALLS

SHEARWALL	PLF	SHEARWALL DESCRIPTION	EDGES	FIELD
1	123	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
<b>②</b>	84	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
<b>③</b>	169	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
4	125	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.

FASTEN SHEATHING OVER TOP PLATES AND FASTEN WITH 0.113" X 2.375" NAILS AT 4" O.C.

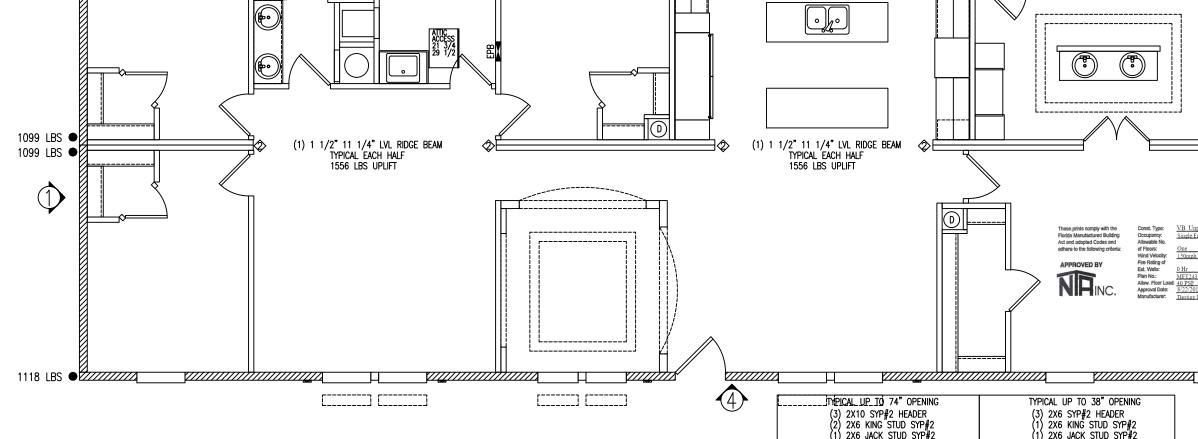
1099 LBS ● ////////

O = TIE SHEARWALLS STUDS/CHORDS TO FLOOR BAND

= TIE SHEARWALLS CHORDS/COLUMNS TO GROUND FOR UPLIFT SHOWN BLOCK RIM JOIST AT STRAP LOCATIONS FOR ON FRAME OPTION BLOCKING REQUIRED AT MARRIAGE WALL OPENINGS

SIMPSON LSTA9 = 740 LBS SIMPSON LSTA12 = 925 LBS SIMPSON LSTA15 = 1,110 LBS SIMPSON MSTA12 = 940 LBS SIMPSON CMST12 = 38" LONG 9,215 LBS SIMPSON CMST14 = 30" LONG 6,475 LBS

No 77316 一刀 -0 STATE OF OR I DANAL STATE OF Aug 21, 2019 0 1516 LBS 7○ 1516 LBS ● 1516 LBS ● 1516 LBS



WALL 1

GABLE END PLATE TO TOP PLATE FASTENING OPTIONS

.131" TOE NAIL PER BAY 2 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) Fastening options .131" Toe Nail Per Bay

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

FASTENING OPTIONS 6" O.C. .113" NAILS

WALL 2

TRUSS TO TOP PLATE FASTENING OPTIONS .131" TOE NAIL PER BAY #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) FASTENING OPTIONS .131" TOE NAIL PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

4" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS) SHEATHING TO FLOOR BAND (WITHOUT STRAPS) FASTENING OPTIONS

WALL 3

GABLE END PLATE TO TOP PLATE FASTENING OPTIONS .131" TOE NAIL PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) FASTENING OPTIONS .131" TOE NAIL PER BAY

#8 TOE SCREW PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

WALL 4

GABLE END PLATE TO TOP PLATE FASTENING OPTIONS .131" TOE NAIL PER BAY

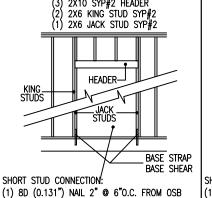
3 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP) FASTENING OPTIONS 1 .131" TOE NAIL PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS) FASTENING OPTIONS 6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS) FASTENING OPTIONS 3" O.C. .113" NAILS

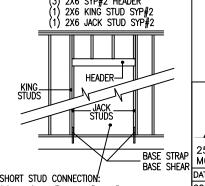


TÓ HEADER

**HEADER CONNECTION:** (13) 8D (0.131") X 3" KINGS TO HEADER PLYS.

BASE STRIP: (1) LSTA15 STRAP FROM KING/JACK COLUMNS TO BAND.

BASE SHEAR: (12) 8D (0.131") X 3" NAILS FROM BASE TO CING / JACK COLLIMNS



(1) 8D (0.131") NAIL 2" @ 6"O.C. FROM OSB TÓ HEADER

HEADER CONNECTION: (7) 8D (0.131") X 3" KINGS TO HEADER PLYS.

(1) LSTA15 STRAP FROM KING/JACK COLUMNS TÓ BAND.

BASE SHEAR: (7) 8D (0.131") X 3" NAILS FROM BASE TO KING/JACK COLUMNS.



250 RW BRYANT ROAD PHONE: 1-229-985-6200 MOULTRIE, GA 31778 E-MAIL: destinyhomebuilders.cor 3RD PARTY INSPECTION AGENCY NTA INC 305 NORTH OAKLAND AVE NAPPANEE, IN 46550 Contact: Dave Barts (574-773-2732) DATE: 7/16/2019 CODES: 2017 FBC ABFLS: FLORIDA

SCALE: NTS MODEL: DRAWN BY:

MFT2437-ME764-750-108 R1 DRAWING:

● 1516 LBS

SHEARWALLS

ERIK MYERS PE, PLLC 2805 28TH STREET PARKERBURG, WV 26104

SHEET



#### **REScheck Software Version 4.6.5**

## **Compliance Certificate**

These prints comply with the Florida Manufactured Building Act and adopted Codes and

APPROVED BY

VB Unprotected

#### **Project**

**Energy Code:** 

Project Type:

2017 Florida Building Code, Energy Conservation

Location: Construction Type: Tampa, Florida **Single-family New Construction** 

Conditioned Floor Area: 2,254 ft2 Glazing Area

18%

Climate Zone:

2 (725 HDD)

Permit Date: Permit Number:

Construction Site:

Owner/Agent:

Designer/Contractor:

#### Compliance: Envelope passes UA trade-off. Additional mandatory requirements apply. Complete the REScheck inspection

Compliance: 24.2% Better Than Code

Maximum UA: 582

Your UA: 441

Maximum SHGC: 0.25 Your SHGC: 0.23

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

#### **Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	2,254	30.0	0.0	0.035	79
Wall 1: Wood Frame, 16" o.c.	270	13.0	0.0	0.082	22
Wall 2: Wood Frame, 16" o.c.	684	13.0	0.0	0.082	49
Window 1: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.23	68			0.350	24
Door 1: Solid	20			0.350	7
Wall 3: Wood Frame, 16" o.c.	270	13.0	0.0	0.082	21
Window 3: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.23	20			0,350	7
Wall 4: Wood Frame, 16" o.c.	684	13.0	0.0	0.082	35
Window 2: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.23	120			0,350	42
Door 2: Glass SHGC: 0.23	141			0.350	49
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	2,254	19.0	0.0	0.047	106

Project Title:

Data filename: C:\Users\Jerry\Documents\REScheck\FL ME764-750-108.rck

Report date: 07/22/19

Page 1 of 10

Inspection Checklist.	.,	ndatory requirements listed in the REScheck
		Date

VB Unprotected Single Family Dwelling

Project Title: Report date: 07/22/19 Page 2 of 10



#### REScheck Software Version 4.6.5

## **Inspection Checklist**

Energy Code: 2017 Florida Building Code, Energy Conservation

Requirements: 0.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # Pre-Inspection/Plan Review & Req.ID		Pre-Inspection/Plan Review Plans Verified Verical Value Value		Complies?	Comments/Assumptions
103.1, 103.2 [PR1] <sup>1</sup>	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			□Complies □Does Not □Not Observable □Not Applicable	
	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			□Complies □Does Not □Not Observable □Not Applicable	
302.1, 403.7 [PR2] <sup>2</sup>	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	□Complies □Does Not □Not Observable □Not Applicable	
302.1, 403.7 [PR2] <sup>2</sup>	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official. Refer to R403.7.1 for full details.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

**Additional Comments/Assumptions:** 

Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



nst. Type: VB Un
cupancy: Single I
owable No.
Floors: One
nd Velocity: 150 mp
e Rating of
t. Walls: 0 hr
in No.: MFT24:

One 150 mph vult 116 vasd Exp 0 hr MFT2437-ME764-750-108 40 PSF 7720/2010

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title:

Data filename: C:\Users\Jerry\Documents\REScheck\FL ME764-750-108.rck

Report date: 07/22/19

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Section # & Req.ID	Foundation Inspection	Complies?	Comments/Assumptions
[EO1112		□Complies □Does Not □Not Observable □Not Applicable	
403.9 [FO12]² ⊌		□Complies □Does Not □Not Observable □Not Applicable	

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

inst. Type: coupancy: owable No. Floors: nd Velocity: e Rating of t. Walls: an No.: ow. Floor Load: providente:

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp 0
0 hr
MFT2437-MF764-750-108
4 40 PSF
7/29/2019

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

# & Req.ID	Framing / Rough-In Inspection	ing / Rough-In Inspection Plans Verified Value Field Verified Value		Complies?	Comments/Assumption
303.1.3 [FR4] <sup>1</sup>	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.1.1, 402.3.1, 402.3.3, 503.1.1.1 [FR2] <sup>1</sup>	Glazing U-factor (area-weighted average).	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.2, 402.3.3 [FR3] <sup>1</sup>	Glazing SHGC value (area- weighted average).	SHGC:	SHGC:	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.4 [FR1] <sup>1</sup>	Door U-factor.	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
	Air barrier and thermal barrier installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	
402.4.3 [FR20] <sup>1</sup>	Fenestration that is not site built and is listed and labeled as meeting action AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC AF	and adopted Codes and re to the following criteria:  PROVED BY  Allowable N  of Floors: Wind Veloo  Fire Rating: Ext. Walls: Plan No.:	Single Family Dwelling  One  150 mph vult 116 vasd Exp C	□Complies □Does Not □Not Observable	
	400 that do not exceed code limits.	Allow. Floor Approval Da Manufacture	Load: 40 PSF ate: 7/29/2019	Not Applicable	
		Approval Da	Load: 40 PSF ate: 7/29/2019	Complies Does Not Not Observable Not Applicable	
(FR16) <sup>2</sup> 403.3.1 (FR12) <sup>1</sup>	limits. IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm	Approval Da	Load: 40 PSF ate: 7/29/2019	☐Complies ☐Does Not ☐Not Observable	
403.3.1 [FR12] <sup>1</sup>	limits.  IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.  Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2	Approval Da	Load: 40 PSF ate: 7/29/2019	Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Not Applicable  Complies Does Not Not Observable Not Applicable	
403.3.1 [FR12] <sup>1</sup> 403.3.5 [FR15] <sup>3</sup> 403.4	limits.  IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.  Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2 for < 3 inches in diameter.  Building cavities are not used as	Approval Da	Load: 40 PSF ate: 7/29/2019	Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable Not Applicable  Complies Does Not Does Not Applicable	
403.3.1 [FR12] <sup>1</sup> 403.3.5 [FR15] <sup>3</sup> 403.4 [FR17] <sup>2</sup>	limits.  IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.  Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2 for < 3 inches in diameter.  Building cavities are not used as ducts or plenums.  HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-	Approval Di Manufacturi	Load: 40 PSE   reterior   729/2019   reterior   Poestinv industries LLC	Complies Does Not Not Observable Not Applicable Complies Does Not Not Observable	

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Section #	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 403.5.5 [FR26] <sup>2</sup>	Storage water heaters not equipped with integral heat traps and having vertical pipe risers have heat traps installed on both the inlets and outlets. External heat traps installed per code guildlines.			Complies Does Not Not Observable Not Applicable	
403.5.6.1. 1 [FR27] <sup>2</sup>	Service water heating systems are equipped with automatic temperature controls.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.6.1. 2 [FR28] <sup>2</sup>	A separate switch permits the power supplied to electric service water systems to be turned off. A separate valve permits the energy supplied to the main burner(s) of combustion types of service water heating systems to be turned off.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.6.2 [FR29] <sup>2</sup>	Water heating equipment meets minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions. Equipment used to provide heating functions as part of a combination system satisfies all stated requirements for the appropriate water heating category.	Table 404.2 (required Ef):	Table 404.2 (required Ef):	□Complies □Does Not □Not Observable □Not Applicable	
403.5.6.2. 1 [FR30] <sup>2</sup>	Solar systems for domestic hot water production satisfy energy factor requirements determined from the Florida Solar Energy Center Directory of Certified Solar Systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.6 [FR19] <sup>2</sup>	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.6.2 [FR31] <sup>2</sup>	Buildings designed to operate at positive indoor pressure or have mechanical ventilation meet the following criteria: 1) Maximum air-change-hour equal minimums from ASHRAE 62, Ventilation for Acceptable Indoor Air Quality, 2) No ventilation or air-conditioning system make-up air provided from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas, and 3) Air drawn from enclosed space(s) have walls insulated >= R-11 and ceiling >= R-19, space permitting, or R-10 otherwise.			Complies Does Not Not Observable Not Applicable These prints comply will Florida Manufactured Bi Act and adopted Codes adhere to the following of	illding Occupancy: Single Family Dwelling and Allowable No.

_		_			
1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Project Title:
Data filename: C:\Users\Jerry\Documents\REScheck\FL ME764-750-108.rck

Report date: 07/22/19

Section # & Req.ID	Insulation Inspection Value Field Verified Con		Complies?	Comments/Assumptions	
303.1 [IN13] <sup>2</sup>	All installed insulation is labeled or the installed R-values provided.			☐Complies ☐Does Not	
<b>19</b>	provided.			□Not Observable □Not Applicable	
303.2 [IN4] <sup>1</sup>	Wall insulation is installed per manufacturer's instructions.			□Complies □Does Not	
				□Not Observable □Not Applicable	
303.2, 402.2.7	Floor insulation installed per manufacturer's instructions and			☐Complies ☐Does Not	
[IN2]¹	in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			□Not Observable □Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3] <sup>1</sup>	Wall insulation R-value. If this is a R-			See the Envelope Assemblies table for values.	
402.1.1, 402.2.6 [IN1] <sup>1</sup>			See the Envelope Assemblies table for values.		
402.2.14 [IN14] <sup>2</sup>	Walls, ceilings or floors common to separate conditioned tenancies are insulated to >= R-11, space permitting. Mass common walls are insulated to >= R-6.			□Complies □Does Not □Not Observable □Not Applicable	

Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Type: VB Unprotected
single Family Dwelling
let No.
50
single Family Dwelling
let No.
50
selective: 150 mph volt 116 vasd Exp. of
let 150 mph

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Report date: 07/22/19

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Section #	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 303.1.1.2. 1, 303.2 [FI2] <sup>1</sup>	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft <sup>2</sup> .			Complies Does Not Not Observable Not Applicable	
303.3 [FI18] <sup>3</sup>	Manufacturer manuals for mechanical and water heating systems have been provided.			□Complies □Does Not □Not Observable □Not Applicable	
401.3 [FI33] <sup>2</sup>	An energy performance level (EPL) display card must be completed and certified by the builder before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. A copy of the EPL card form can be found in Appendix C of the "FBC, Energy Conservation".			Complies Does Not Not Observable Not Applicable These prints comply with the Finitia Manufactured Building Act and adopted Codes and adhere to the following criteria:  APPROVED BY  NIRING.	Const. Type:
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] <sup>1</sup>	Ceiling insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.2.3 [FI22] <sup>2</sup>	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			Complies Does Not Not Observable Not Applicable	
402.2.4 [FI3] <sup>1</sup>	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	□Complies □Does Not □Not Observable □Not Applicable	
402.4.1.2 [FI17] <sup>1</sup>	Blower door test @ 50 Pa. <=7 ach.	ACH 50 =	ACH 50 =	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.1 [FI9] <sup>2</sup>	Each separate heating/cooling system has a thermostat			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.2 [FI9] <sup>2</sup>	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			□Complies □Does Not □Not Observable □Not Applicable	
403.1.3 [FI10] <sup>2</sup>	Heat pump thermostat installed on heat pumps.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			□Complies □Does Not □Not Observable □Not Applicable	
	1 High Impact (Tier	1) 2 Medium	Impact (Tier 2)	3 Low Impact (T	er 3)

Section # & Reg.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.3.2, 403.3.2.1 [FI24] <sup>1</sup>	All ducts, air handlers, and filter boxes shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code. Air handler leakage designated by manufacturer at <=2% of design air flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
[FI27] <sup>1</sup>	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	cfm/100	ft <sup>2</sup> cfm/100	□Complies □Does Not □Not Observable □Not Applicable	
403.3.2 [FI4] <sup>1</sup>	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection. Duct tightness verified by testing in accordance with ANSI/RESNET/ICC 380-2016 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.	cfm/100	cfm/100 ft <sup>2</sup>	Complies Does Not Not Observable Not Applicable Not Applicable These prints comply with the Friorida Marindactured Building Act and adopted Codes and achieve to the following criteria:  APPROVED BY	Const. Type:  Occupancy: Sincle Family Dwelling Allowshelb No. One Wind Velocity: Fig. 150 mph vult 116 vasid Exp. C Fig. 180 mph vult 116 vasid Exp. C Fig. 190 mph vult 116 vasid Exp. C Fig.
403.3.6 [FI33] <sup>2</sup>	Air handling units are not installed in attic.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.1 [FI11] <sup>2</sup>	Circulating service hot water systems have automatic or accessible manual controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.1.1 [FI28] <sup>2</sup>	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermossyphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			□Complies □Does Not □Not Observable □Not Applicable	

_		-			
1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.1.2 [FI29] <sup>2</sup>	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.2 [FI30] <sup>2</sup>	Water distribution systems that have recirculation pumps that pump water from a heated water supply pipe back to the heated water source through a cold water supply pipe have a demand recirculation water system. Pumps have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to 104°F.			□Complies □Does Not □Not Observable □Not Applicable	
403.5.4 [FI31] <sup>2</sup>	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			□Complies □Does Not □Not Observable □Not Applicable	
403.6.1 [FI25] <sup>2</sup>	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
404.1 [FI6] <sup>1</sup>	75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting.			□Complies □Does Not □Not Observable □Not Applicable	
404.1.1 [FI23] <sup>3</sup>	Fuel gas lighting systems have no continuous pilot light.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



onst. Type:

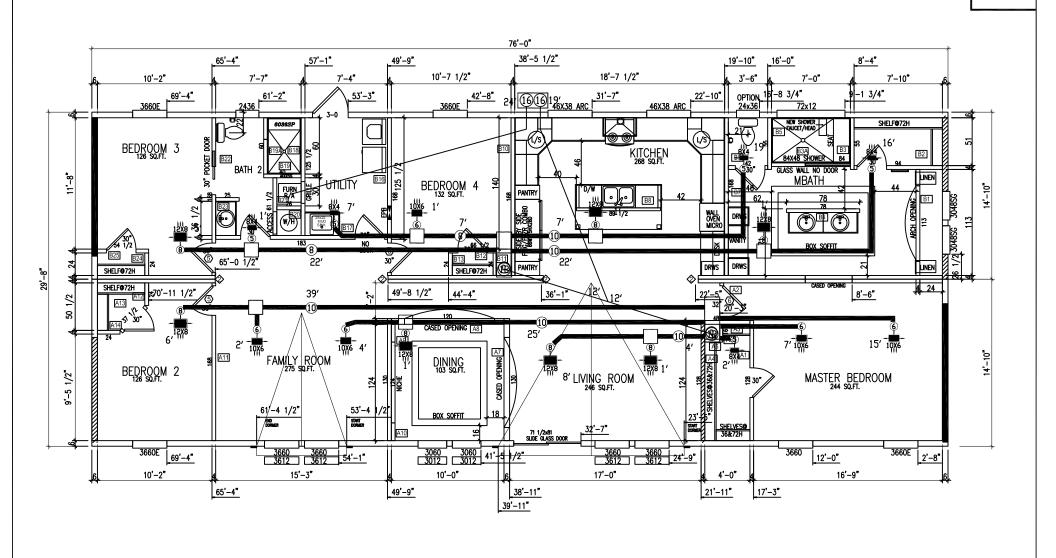
VB Unprotected
coupancy:
Single Family Dwelling
lowelling
lowel

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
------------------------	--------------------------	-----------------------

Project Title:
Data filename: C:\Users\Jerry\Documents\REScheck\FL ME764-750-108.rck

Report date: 07/22/19

Page 10 of 10



These prints comply with the Florida Manufactured Building Act and adopted Codes and

APPROVED BY NAINC.

VB Unprotected Const. Type: Occupancy: Allowable No. Single Family Dwelling of Floors: Wind Velocity: Fire Rating of Ext. Walls: Allow. Floor Load: 40 PSF Approval Date: 7/29/2019 Approval Date: Manufacturer:

150 mph vult 116 vasd Exp C MFT2437-ME764-750-108 Destiny industries, LLC...

THE	CUSTOMER: DESTINY	
GROUP ELKHART, IN.		
DESCRIPTION: OMIT		SCALE:
MDDEL: ME764-750-108		
DRAWN: DANNY		DATE:
CAD FILENAME: DS\DESTINY\		7/19/19

## **Destiny Industries, LLC**

#### ME764-750-108

Site Address: tbd

**Building Codes:** 6th Ed. Florida Residential Code

Resources Used: Microsoft Excel for computations; Woodworks Sizer 10.4 for selected beam designs

Building Design Criteria ASCE 7	
Wind Load Design:	150 mph Vult
Wind Exposure:	С
1st Floor Live Load:	40 PSF
1st Floor Dead Load:	10 PSF
Roof Live Load:	20 PSF
Roof Dead Load:	14 PSF
Mean Roof Height:	20 FT

Compo	Components and Cladding		
Zone 1	18 PSF	-28.6 PSF	
Zone 2	18 PSF	-49.8 PSF	
Zone 2 OH		-63 PSF	
Zone 3	18 PSF	-73.5 PSF	
Zone 3 OH		-102.6 PSF	
Zone 4	31.2 PSF	-33.9 PSF	
Zone 5	31.2 PSF	-41.8 PSF	

Erik Myers PE, PLLC 45 Woodyards Cave Rd

FL PE Lic. No. 77316

Parkersburg, WV

26104

7/17/2019

Calculation Index:	Page(s)
Design Criteria and Load Cases	1-2
MWFRS Design	3-10
Uplift / Truss Connections	11-14
Headers / Studs / Connections	15-21
Overhang Design / Connections	22
On Frame Floor Joist	23-24

These prints comply with the Florida Manufactured Buildir Act and adopted Codes and adhere to the following criter



 Onst. Type:
 VB Unprotected

 coupancy:
 Single Family Dwelling

 linvalie No.
 Floors:

 fill floors:
 One

 ine Reling of th. Walts:
 0 hr

 st. Walts:
 0 hr

 lan No:
 MET2437-ME764-750-108

 line Pior Loads:
 40 PSF

 pproved Date:
 7/29/2019

 more for buser
 10 PSF



#### **Design Criteria ASCE 7-10**

Total Width =	29.67 ft	Stories =	1
Module Width =	14.833 ft	Wall Height =	9 ft
Length =	76 ft	Sidewall Eave Height =	10 ft
Roof Slope =	2 /12	Foundation Height =	3.5 ft
Roof Angle =	9.46 °	Roof Projection =	3.00 ft
Sidewall OH =	12 in	Mean Roof Height =	15.00 ft
Endwall OH =	12 in	Min. Mean Roof Height =	20 ft

#### **Wind Loads**

Wind Speed =	150 mph
Exposure =	С
Wind Pressure qh =	26.4 psf

#### **Design Loads**

Floor Live =	40 psf
Floor Dead =	10 psf
Wall Dead =	45 plf
Roof Dead =	14 psf

#### **Roof Loads**

20 psf	Roof Live =
20 psf	Min. Roof Live =
0 psf	Ground Snow =
0.0 psf	Flat Roof Snow =
0.0 psf	Sloped Roof Snow =
0.0 psf	Max Unbalanced =

#### **Components and Cladding**

	-	+
Zone 1	-28.6	18.0 psf
Zone 2	-49.7	18.0 psf
Zone 2 OH	-62.9	
Zone 3	-73.5	18.0 psf
Zone 3 OH	-102.6	
Zone 4	-33.8	31.2 psf
Zone 5	-41.8	31.2 psf

#### **Main Wind Force Resisting System**

		Trans	Long	
ΕZ	Wall	30.6	27.5	psf
Roof	-13.0	-13.0	psf	
ΙZ	Wall	20.4	18.2	psf
IZ	Roof	-7.6	-7.6	psf

#### **Soffit Loading for Overhang**

Positive = 32.8 psf Negative = -39.7 psf

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



stat. Types: VB Unprotected simple Family Dwelling wealthe No. 100xts. 4 Welcelly: 150 mph vult 116 vasd 150 m

#### **Design Criteria**

#### **Building Dimensions**

Wind Speed:	150 mph	Length:	76 ft
Wind Exposure:	С	Width:	29.67 ft
Mean Roof Height:	20.00 ft	Module Width:	14.83 ft
Roof Live Load:	20 psf	Wall Height:	9 ft
Roof Dead Load:	14 psf	Roof Pitch:	2 /12
Wall Dead Load:	45 plf	Truss Spacing:	24 in
Floor Live Load:	40 psf	Heel Height:	4.75 in
Floor Dead Load:	10 psf	Slope Factor:	1.014
Attic Live Load:	20 psf		

Attic Live Load.	20 F	/31					
Truss Reactions			c	Calculated Kh Reduction = No			
	Sidewall		Matewall		Horizontal		
Uplift	-462 I	bs	-447	lbs	F =	221 lbs	
Gravity	555 II	bs	495	lbs			
Vertical Load Cases							
Roof Level							
D	115 p	olf	103	plf			
L	0 p	olf	0	plf			
S/Lr	162 p	olf	145	plf			
W	-462 p	olf	-441	plf			
.75(L+S/Lr)	122 p	lf	109	plf			
D+L	115 p	olf	103	plf			
D+S/Lr	278 p	olf	248	plf			
D+.75(L+S/Lr)	237 p	lf	211	plf			
.6D+.6W	-208 p	olf	-203	plf			
Floor Level							
D	234 p	olf	222	plf	West stated as a second of the	One of These AVD	
L	297 p	olf	297	plf	These prints comply with the Florida Manufactured Building Act and adopted Codes and	Allowable No.	
S/Lr	162 p	olf	145	plf	adhere to the following criteria  APPROVED BY	Wind Velocity: 150 Fire Rating of	
W	-462 p	olf	-441	plf	NID	Ext. Walls: 0 hr Plan No.: MF Allow. Floor Load: 40	

331 plf

519 plf

367 plf

553 plf

-131 plf

344 plf

531 plf

397 plf

579 plf

-136 plf

.75(L+S/Lr)

D+.75(L+S/Lr)

.6D+.6W

D+L D+S/Lr NIHINC.

#### Wind Design ASCE 7-10

Wind Speed: 150 mph Wind Exposure: С Mean Roof Height: 20.00 ft Length: 76 ft Width: 29.67 ft Module Width: 14.833 ft Wall Height: 9 ft Roof Pitch: 2 /12 Truss Spacing: 24 in **Roof Projection:** 3.00 ft

#### Wind Load at Roof Level

Perpendicular to Ridge: 3621 lbs Parallel to Ridge: 1790 lbs

#### Wind Load at Floor Level

Perpendicular to Ridge: 8047 lbs Parallel to Ridge: 3431 lbs

#### **MWFRS Horizontal Loads**

		Trai	ns l	Long	
EZ	Wall		30.6	27.5 psf	
	Roof		-13.0	-13.0 psf	
ΙZ	Wall		20.4	18.2 psf	
	Roof		-7.6	-7.6 psf	
EZ 2a	=	6 ft			
Nall She	athing Su	ıction		W =	

<b>Wall Sheathing Suction</b>	W :	=	109 lbs
Stud Spacing =	16 in		
	Edge	Field	

Zone 4	-33.8 psf	6	12 in o.c.
Zone 5	-41.8 psf	6	12 in o.c.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



const. Type: \( \subseteq \) iccupancy: \( \subseteq \) illowable No, if Floors: \( \subseteq \) if re Rating of txt. Walls: \( \subseteq \) illow. Floor Load: \( \frac{4}{2} \) pproval Date: \( \frac{7}{2} \)

	VB Unprotected Single Family Dwelling
:	One 150 mph vult 116 vasd Exp
	0 hr
	MFT2437-ME764-750-108
oad:	40 PSF
E:	7/29/2019

Wall	1	Wood Species =	SP	Sg =	0.55
Wall H =	9 ft	Grade =	#2	Size =	2x6
Force =	3621 lbs	Stud Spacing =	16 in o.c.	Fc⊥ =	565 psi
Wall L =	29.67 ft	Segmented		Fc⊥ Contro	ls
FHS =	29.67 ft		Allowa	ble Load =	4662 lbs
Vu =	122 plf			Qty =	1 stud
OT =	1098 lbs				

Sheathing / Fastening	7/16" OSB	One Side	with	0.113 "	nails
	Edge Spacing =	6 in. o	.c.	Fastener	Length
	Field Spacing =	12 in. o	.c.	L =	2.375 in
	Allowable Shear =	275 plf >	>> PASS	6	

#### **Gable End Plate to Top Plate**

Stud Spacing = 16 in. o.c. Out-of-Plane F = 122 lbs / bay 2 .131" In-Plane Shear F = 163 lbs / bay 2 #8 163 lbs / bay  $F_R =$ 

#### **Bottom Plate to Floor (Sheathing Lap)**

Stud Spacing = 16 in. o.c. Out-of-Plane F = 122 lbs / bay In-Plane Shear F = 0 lbs / bay  $F_R =$ 122 lbs / bay

#### **Sheathing to Top Plate / Band (Straps)**

In-Plane Shear F = 122 plf Uplift F = 0 plf  $F_R =$ 122 plf

### **Sheathing to Floor Band (Straps)**

In-Plane Shear F = 122 plf Perf. Uplift F = 0 plf  $F_R =$ 122 plf

#### **Sheathing to Floor Band (Without Straps)**

In-Plane Shear F = 122 plf Uplift F = 0 plf Perf. Uplift F = 0 plf  $F_R =$ 122 plf

# **Fastening Options**

**Fastening Options** 

1 .131" nails / bay

toe-nails / bay

toe-screws / bay

#### **Fastening Options**

6 in. o.c. 0.113 " nails

#### **Fastening Options**

6 in. o.c. 0.113 " nails

# **Fastening Options**

6 in. o.c. 0.113 " nails

Wall	2	Wood Species =	SP	Sg =	0.55
Wall H =	9 ft	Grade =	#2	Size =	2x6
Force =	3621 lbs	Stud Spacing =	16 in o.c.	Fc⊥ =	565 psi
Wall L =	76 ft	Perforated		Fc⊥ Contro	ols
FHS =	47 ft	Perforated Design	Allowa	able Load =	4662 lbs
Vu =	83 plf	% FHS = 0.62		Qty =	1 stud
OT =	749 lbs	Co = 0.93			

Sheathing / Fastening	7/16" OSB	One Side with	0.113 "	' nails
	Edge Spacing =	6 in. o.c.	Fastener	Length
	Field Spacing =	12 in. o.c.	L =	2.375 in
	Allowable Shear =	275 plf >>> PAS	S	

### Truss to Top Plate Fastening Options

Truss Spacing =	16 in. o.c.			
Out-of-Plane F =	221 lbs	3	.131"	toe-nails / truss
In-Plane Shear F =	64 lbs	3	#8	toe-screws / truss
F <sub>R</sub> =	221 lbs			

### Bottom Plate to Floor (Sheathing Lap) Fastening Options

Stud Spacing =	16 in. o.c.			
Out-of-Plane F =	122 lbs / bay			
In-Plane Shear F =	0 lbs / bay			
F <sub>R</sub> =	122 lbs / bay	1	.131"	nails / bay

### Sheathing to Top Plate / Band (Straps) Fastening Options

In-Plane Shear F =	83 plf		
Uplift F =	0 plf		
F <sub>R</sub> =	83 plf	6 in. o.c.	0.113 " nails

### Sheathing to Floor Band (Straps) Fastening Options

In-Plane Shear F =	83 plf	
Perf. Uplift F =	83 plf	
F <sub>R</sub> =	118 plf	6 in. o.c.

# Sheathing to Floor Band (Without Straps) Fastening Options

•		-	• •		•	•	
In-Plane Shea	ar F =	83 plf					
Upli	ft F =	181 plf					
Perf. Upli	ft F =	83.245 plf			4 in. o.c.	0.113 '	' nails
	$F_R =$	277 plf					

st. Typo: VB Unprotected paners: Single Family Dwarzhle No. One
1 Velocity: 0 hr
No: WFT2437-ME764.

0.113 " nails

Wall	3	Wood Species =	SP	Sg =	0.55
Wall H =	9 ft	Grade =	#2	Size =	2x6
Force =	3621 lbs	Stud Spacing =	16 in o.c.	Fc⊥ =	565 psi
Wall L =	29.67 ft	Segmented		Fc⊥ Contro	Is
FHS =	21.5 ft		Allowa	ble Load =	4662 lbs
Vu =	168 plf			Qty =	1 stud
OT =	1516 lbs				

Sheathing / Fastening 7/16" OSB One Side with 0.113 " nails

Edge Spacing = 6 in. o.c. Fastener Length

Field Spacing = 12 in. o.c. L = 2.375 in

Allowable Shear = 275 plf >>> PASS

#### **Gable End Plate to Top Plate**

### Stud Spacing = 16 in. o.c. Out-of-Plane F = 122 lbs / bay In-Plane Shear F = 163 lbs / bay $F_R = 163 lbs / bay$

#### **Fastening Options**

2	.131"	toe-nails / bay
2	#8	toe-screws / bay

### **Bottom Plate to Floor (Sheathing Lap)**

Stud Spacing =	16 in. o.c.
Out-of-Plane F =	122 lbs / bay
In-Plane Shear F =	0 lbs / bay
F . =	122 lbs / hav

### **Fastening Options**

1	.131"	nails / bay
1	.131"	nails / bay

### **Sheathing to Top Plate / Band (Straps)**

In-Plane Shear F =	168 plf
Uplift F =	0 plf
F <sub>R</sub> =	168 plf

### **Fastening Options**

**Fastening Options** 

6	in. o.c.	0.113	"	nails

### **Sheathing to Floor Band (Straps)**

In-Plane Shear F =	168 plf
Perf. Uplift F =	0 plf
F <sub>R</sub> =	168 plf

6 in. o.c.

These prints comply with the
Florida Manufactured Building
Act and adopted Codes and
arthere to the following criteria:

### **Sheathing to Floor Band (Without Straps)**

168 plf	In-Plane Shear F =
0 plf	Uplift F =
0 plf	Perf. Uplift F =
168 plf	F <sub>R</sub> =

### **Fastening Options**

6 in. o.c.	∩ 113	" nails
D III. O.C.	0.113	Halls

0.113 " nails

sst. Type: VB Unpro
upanoy: Single Fam
wable No.
lotors: One
d Velocity: 150 mph vo.
Rating of
Walls: 0 hr
No.: MFT2437-1
w. Floor Load: 40 PSF

Wall	4	Wood Species =	SP	Sg =	0.55
Wall H =	9 ft	Grade =	#2	Size =	2x6
Force =	3621 lbs	Stud Spacing =	16 in o.c.	Fc⊥ =	565 psi
Wall L =	71 ft	Perforated		Fc⊥ Contro	ls
FHS =	41.5 ft	Perforated Design	Allowa	able Load =	4662 lbs
Vu =	124 plf	% FHS = 0.58		Qty =	1 stud
OT =	1118 lbs	Co = 0.70			

Sheathing / Fastening	7/16" OSB	One Side with	0.113 "	' nails
	Edge Spacing =	6 in. o.c.	Fastener	Length
	Field Spacing =	12 in. o.c.	L =	2.375 in
	Allowable Shear =	275 plf >>> PAS	S	

Truss to Top Plate	Fastening Options
uss to .op . late	· ustering options

Truss Spacing =	16 in. o.c.			
Out-of-Plane F =	221 lbs	3	.131"	toe-nails / truss
In-Plane Shear F =	68 lbs	3	#8	toe-screws / truss
E _ =	221 lbs			

#### **Bottom Plate to Floor (Sheathing Lap) Fastening Options**

Stud Spacing =	16 in. o.c.			
Out-of-Plane F =	122 lbs / bay			
In-Plane Shear F =	0 lbs / bay			
$F_R =$	122 lbs / bay	1	.131"	nails / bay

#### **Sheathing to Top Plate / Band (Straps) Fastening Options**

In-Plane Shear F =	124 plf		
Uplift F =	0 plf		
F <sub>R</sub> =	124 plf	6 in. o.c.	0.113 " nails

#### **Sheathing to Floor Band (Straps) Fastening Options**

In-Plane Shear F =	124 plf	
Perf. Uplift F =	124 plf	
F <sub>R</sub> =	176 plf	6 in.

#### **Sheathing to Floor Band (Without Straps) Fastening Options**

	124 plf	In-Plane Shear F =
	181 plf	Uplift F =
3 in. o.c.	124.23 plf	Perf. Uplift F =
	330 plf	F <sub>R</sub> =

0.113 " nails

6 in. o.c.

Shearwall	PLF	Shearwall Description	Edge	Field
1	123	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12
2	84	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12
3	169	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12
4	125	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12

Wall 1 OT = 1099 lbs

**Gable End Plate to Top Plate** 

2 .131" toe-nails / bay2 #8 toe-screws / bay

Bottom Plate to Floor (Sheathing Lap)

1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)

6 in. o.c. 0.113 " nails

Wall 3 OT = 1516 lbs

**Gable End Plate to Top Plate** 

2 .131" toe-nails / bay2 #8 toe-screws / bay

**Bottom Plate to Floor (Sheathing Lap)** 

1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)

6 in. o.c. 0.113 " nails

**Sheathing to Floor Band (Straps)** 

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)

6 in. o.c. 0.113 " nails

Wall 2 OT = 750 lbs

Truss to Top Plate

3 .131" toe-nails / truss 3 #8 toe-screws / truss

Bottom Plate to Floor (Sheathing Lap)

1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)

4 in. o.c. 0.113 " nails

Wall 4 OT = 1119 lbs

Truss to Top Plate

3 .131" toe-nails / truss 3 #8 toe-screws / truss

Bottom Plate to Floor (Sheathing Lap)

1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)

3 in. o.c. 0.113 " nails

These prints comply with the Florida Manufactured Buildin Act and adopted Codes and adhere to the following criterion



Const. Type: V
Occupancy: Si
Allowable No.
Of Floors: O
Wind Velocity: 1:
Fire Rating of
Ext. Walls: D
Plan No.: M
Allow. Floor Load: 44

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp

0 hr MFT2437-ME764-750-108 dd: 40 PSF 7/29/2019

#### **Roof Diaphragm**

### **Roof Diaphragm**

V =	3621 lbs	7/16" sheathing w/ .113" nails:	250 plf
Unit shear =	114 plf	6" o.c. edge, 12" o.c. field	

#### Floor Diaphragm

Tool Diapiliagili			
V =	4426 lbs	19/32" sheathing w/ .113" nails:	275 plf
Unit shear =	149 plf	6" o.c. edge, 6" o.c. field	

# Suction Fastening Requirements (spacing limited to diaphragm spacing requirements) Roof Sheathing Suction W = 109 lbs

moor oricati	mig saction		• •	103 103
Т	russ Spacing =	24 in		
		Edge	Field	
Zone 1	-28.6 psf		6.0	12.0 in o.c.
Zone 2	-49.7 psf		6.0	12.0 in o.c.
Zone 2 OH	-62.9 psf		6.0	10.4 in o.c.
Zone 3	-73.5 psf		6.0	8.9 in o.c.
Zone 3 OH	-102.6 psf		6.0	6.4 in o.c.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: V. Occupancy: Si Allowable No. of Floors: O. Wind Velocity: Is Fire Rating of Ext. Walls: O. Plan No.: M. Allow. Floor Load: 40. Approval Date: 7.

One
150 mph vult 116 vasd Exp C

0 hr
MFT2437-ME764-750-108
dt 40 PSF
770-2010

### **Roof Diaphragm Deflection (3 term equation)**

$$W = 95 \text{ plf}$$

$$Max T/C = 2173 \text{ lbs}$$

$$Chord E = 1400000 \text{ psi}$$

$$Chord A = 8.25 \text{ in}^2 \text{ term } 2 = 0.37854 \text{ in}$$

$$Ga = 13 \text{ kips/in}$$

$$\Delta c = 0.039163$$

$$\Delta_{\text{allow}} = 2L/120$$

$$Chord A = 8.25 \text{ in}^2 \text{ term } 3 = 0.08904 \text{ in}$$

$$\Delta_{\text{dia}} = 0.66184 \text{ in}$$

$$\Delta_{\text{dia}} = 0.08904 \text{ in}$$

#### **Chord Splice**

Max T / C =	2173 lbs	<b>Tension Controls</b>
$F_t =$	600 psi	
F' <sub>t</sub> =	960 psi	
Allowable T =	7920 lbs	

Fasten chord splice with 0.131 in. nails, 13 each side of splice

#### Tie-Down Anchors (Far Beam)

Building Parameters Loading Parameters					
Tota	al Width =	356 in	Dead Loads		
Modul	e Width =	178 in	Roof DL =	14 psf	
Wal	l Height =	108 in	Wall DL =	5 psf	
Floo	r Height =	10 in	Floor DL =	15 psf	
Roof Pr	ojection =	36 in	Wind Loads	Wind FOS =	1
Ov	verhang =	12 in	Horizontal Roof =	-13.0 psf	
Ro	of Pitch =	2 /12	Horizontal Wall =	30.6 psf	
I-beam	spacing =	99.5 in	Vertical Roof =	-33.0 psf	
Frame	e Height =	12 in	Vertical Roof OH =	-46.3 psf	
Pier Height (including	g frame) =	48 in			
Anch	or Inset =	6 in			
Tie-Down Anchors			Allowable Loads		
F <sub>ult</sub> =	4725 lbs		Horizontal =	2962 lbs	
F <sub>all</sub> =	3150 lbs		Vertical =	3126 lbs	
θ horizontal =	19.9 °		Lateral Load =	332 plf	
θ vertical =	7.1 °		Spacing for Sliding =	8.92 ft o.c.	
Net Uplift at Floor			Total Tension (Overturnin	g + Net Uplift)	
F=	-136 plf		` T =	-298.3 plf	
Overturning	·	Spacin	ig for Overturning / Uplift =	10.48 ft o.c.	
F =	-1872 ft-lbs	•			
T =	-162 plf				
	-				

#### Install Anchors on Sidewall Floor Band (rated for 3150 lbs allowable load) at 8.92 ft o.c.

Matewall Uplift

F = -131 plf per half Spacing = 11.89 ft o.c.

Max Matewall Opening for Anchor in each module Span = 34.16 ft

### Install Anchors on Matewall Floor Band (rated for 3150 lbs allowable load) at 11.89 ft o.c.

Longitudinal Tie-Downs

Anchor Angle = 70 °

Strap Angle = 20 ° min Allowable T = 2413 lbs

**Total Horizontal Force** 

Force Longitudinal Anchors Required Each End (Total)

F = 7222 lbs Qty = 3 total 2 each module

Notes:

- 1. Equivalent anchors into foundation (or ground) designed and installed by others.
- 2. Matewall spacing assumes single double head foundation anchor with separate strap in each module
- 3. Max matewall opening span assumes interior zone span and separate foundation anchors.



| Const. Type: Occupancy | Allowable No. of Floors: Wind Valocally: Flee Rating of But Wales: One Mark Wales:

#### **Uplift Connections**

#### **Uplift Forces**

Sidewall

Uplift = -462 lbs

Matewall

Uplift = -447 lbs

#### Sidewall - OSB Overlap at Top Plate

F = 208 plf

Fastener = .113 nails

Z = 94 lbs

Nail Spacing = 5 inches o.c.

Rows = One Row

Lap Sheathing Over Top Plate and Fasten with One Row of .113 nails at 5 inches o.c.

#### **Sidewall - Connection at Floor**

F = 330 plf

#### Option 1 w/ Straps

LSTA15 921 lbs
Fastener = .131" x 2.5" nail
Strap Spacing = 33 inches o.c.

Use LSTA15 strap 32 inches o.c., w/ (6) .131" x 2.5" nails

#### Option 2 w/ OSB Overlap

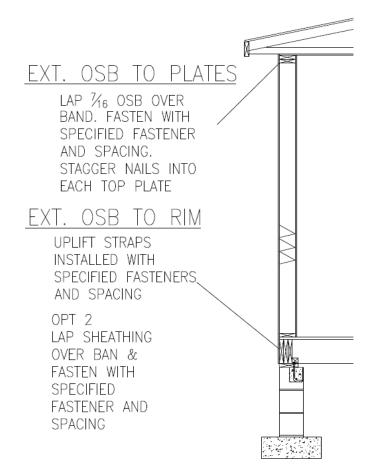
Fastener = .113 nails

Z = 94 lbs

Nail Spacing = 3 inches o.c.

Rows = One Row

Lap Sheathing Over Top Plate and Fasten with One Row of .113 nails at 3 inches o.c.







#### **Uplift Connections**

#### Matewall - Ridgebeam to Stud

F = -203 plf

LSTA9 614 lbs
Fastener = .131" x 2.5" nail
Strap Spacing = 36 inches o.c.

Use LSTA9 strap 32 inches o.c., w/ (4) .131" x 2.5" nails

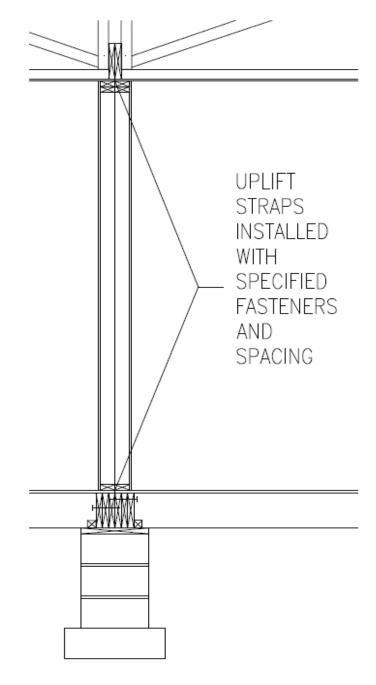
**Matwall - Stud to Floor** 

F = -203 plf

Option 1 w/ Straps

LSTA9 614 lbs
Fastener = .131" x 2.5" nail
Strap Spacing = 36 inches o.c.

Use LSTA9 strap 32 inches o.c., w/ (4) .131" x 2.5" nails



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp

0 hr MFT2437-ME764-750-108 40 PSF 7/29/2019 Destiny industries LLC

#### **Truss Connections (Fixed Roof)**

**Truss Reactions** Truss Chord Species = SP

> Sidewall Matewall

Gravity = 495 lbs Horiz. = 221 lbs Uplift = -462 lbs Uplift = -447 lbs

#### **Top Chord Strap Across Mateline**

T = 214 lbs

**Strap Options:** Fasteners Each End: Value:

(4) .131" x 2.5" nails LSTA15 615 lbs OK CS22 (4) .131" x 2.5" nails 653 lbs OK

# RIDGE CAP

### TOP CHORD STRAP

USE (1) SIMPSON LSTA15 STRAP WITH (4) 8D (.131) X 2.5" NAILS EACH END. OR CS22 STRAP APPLY TO EVERY TRUSS.

### RIDGE TO RIDGE SHEAR

FASTEN WITH (3) 8D (.131) X 3" NAILS FROM RAIL TO RAIL EACH BAY EVENLY SPACED. BLOCK GAPS @ 32" O.C.

### TOP CHORD TO RIDGE

FASTEN WITH (3) 8D (.131) X 3" NAILS FROM RIDGE TO TOP CHORD END GRAIN. APPLY TO EVERY TRUSS.

#### **Uplift Connector at Sidewall Truss Heel**

**Connector Options:** Value: Fasteners Each End:

> H2.5A (5) .131" x 2.5" nails 565 lbs OK SDWC15600 .152" x 6" screw 615 lbs OK

#### TOP PLATE TO TRUSS UPLIFT

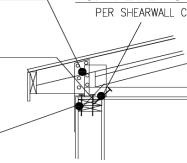
USE (1) SIMPSON H2.5A W(5) 8D (.131) X 1.5" FASTERS EACH END. EVERY TRUSS ALTERNATE: FASTEN (1) SDWC15600 SCREW FROM DBL TOP PLATE INTO THE BOTTOM CHORD OF TRUSS.

#### EXT. OSB TO PLATES

PER SHEARWALL CONNECTION CHART.



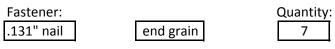
PER SHEARWALL CONNECTION CHART

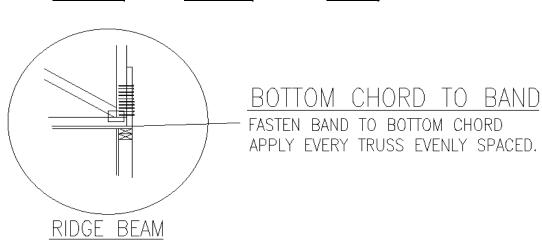


### **Matewall Girder Connection Over Openings:**

Gravity = 495 lbs **Gravity Controls** 

Uplift = -447 lbs





These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



const. Type: VB U
cocupancy: Single
Illowable No.
If Floors: One
Vind Velocity: 150 m
ire Rating of
bt. Walls: Oh
Tan No.: MFT2Illow. Floor Load: 40 PSI

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp C
0 hr
MFT2437-ME764-750-108
40 PSF
7/29/2019

### **Matewall Header**

Species =	Murphy	W =	-203	plf	Ld =	= 1.6
Grade =	LVL	LL =	145	plf	Ld =	= 1
b =	1.5 in	DL =	103	plf		
d =	11.25 in	$LL\Delta = L/2$	240			
A =	16.88 in^2	$TL\Delta = L/$	180			
S =	31.64 in^3	$W\Delta = L/2$	240			
=	177.98 in^4					
Qty =	1	Span =	184	in		
Fb =	3100 psi					
Fv =	290 psi		L+D			W
E =	2000000 psi	F'b =	3100.00	psi	F'b =	= 4960.00 psi
Lr =	1	F'v =	290	psi	F'v =	= 464 psi
Cfb =	1					
	L+D			W		
Mu =	87285 in-lbs		Mu =	49836.3	in-lbs	
Mn =	98085.9 in-lbs	OK	Mn =	156938	in-lbs	OK
	L+D			W		
Vu =	1897.5 lbs		Vu =	1083.4	lbs	
Vn =	3262.5 lbs	OK	Vn =	5220	lbs	OK
LL∆ =	0.51 in	Allowable LLΔ =	0.77	in	OK	
TL∆ =	0.69 in	Allowable $TL\Delta =$	1.02	in	OK	
W∆ =	0.71 in	Allowable $TL\Delta =$	0.77	in	OK	

Reaction Uplift Reaction

F = 1898 lbs F = -1556 lbs

Use (1) 1.5 x 11.25 LVL for 15' 4" span

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



Const. Type: VB Unpr.
Occupancy: Single Fan
Allowable No.
of Floors: One
Wind Velocity: 150 mph v
Fire Rating of
Ebt. Walts: 0 hr
Ebt. Walts: 0 hr
Allow. Floor Load: 40 PSE
Approval Date: 7(29/2019

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp
0 hr
MFT2437-ME764-750-108
40 PSF

### **Matewall Header**

Species =	SYP	W =	-203	olf	Ld =	1.6
Grade =	#2	LL =	145	olf	Ld =	1.25
b =	1.5 in	DL =	103	olf		
d =	5.5 in	$LL\Delta = L/2$	240			
A =	8.25 in^2	$TL\Delta = L/2$	180			
S =	7.56 in^3	$W\Delta = L/2$	240			
=	20.80 in^4					
Qty =	1	Span =	48 i	n		
Fb =	1000 psi					
Fv =	175 psi	l	L+D			W
E =	1400000 psi	F'b =	1250.00	osi	F'b =	1600.00 psi
Lr =	1	F'v =	218.75	osi	F'v =	280 psi
Cfb =	1					
	L+D		1	W		
Mu =	5940 in-lbs		Mu =	3391.51 in-	-lbs	
Mn =	9453.13 in-lbs	OK	Mn =	12100 in-	-lbs	OK
	L+D		1	W		
Vu =	495 lbs		Vu =	282.626 lbs	S	
Vn =	1203.13 lbs	OK	Vn =	1540 lbs	S	OK
LLA =	0.03 in	Allowable LL∆ =	0.20 i	n Ol	<	
TLA =	0.04 in	Allowable TLΔ =	0.27 i	n Ol	<	
$W\Delta =$	0.04 in	Allowable TLΔ =	0.20 i	n Ol	<	

Reaction Uplift Reaction F = 495 lbs F = -406 lbs

Use (1) 2 x 6 #2 SYP for 4' 0" span

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: V. Occupancy: Si Allowable No. of Floors: O. Wind Velocity: Fire Rating of Ext. Walls: O. Plan No.: Allow. Floor Load: 4(Approval Date: 7/

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp
0 hr
MFT2437-ME764-750-108
40 PSF

### **Matewall Stud**

						W =	-203 plf
L =	108	in	Ke =	1		DL =	103 plf
d =	3.5	in	le =	108	in	LL =	145 plf
t =	1.5	in	le/d =	30.86	< 50 OK		
			Cd =	1			
Spacing =	16	in	Cf(Fc) =	1		Cf(Fb) =	1
	Fb psi	Ft psi	Fv psi	Fc <sup>⊥</sup> psi	Fc psi	E psi	Emin psi
#3 SYP	650	400	175	565	85	0 1300000	470000
Qty	A (in^2)	S (in^3)	I (in^4)	F'b psi	F'c psi		
1	5.25	3.06	5.36	650	85	0	
2	10.50	6.13	10.72	650	85	0	
3	15.75	9.19	16.08	748	85	0	

### **Axial Compression**

Qty	F	cE psi	ας	Ср	F'c psi	fc psi	fc/F'c	Capacity
	1	406	0.48	0.42	355	246	0.69 <b>O</b> k	1863 lbs
	2	406	0.48	0.42	355	287	0.81 <b>O</b> k	3726 lbs
	3	406	0.48	0.42	355	308	0.87 <b>O</b> k	5589 lbs

Lateral B	Bei	nding		W =	5	psf	
Qty		M (in-lbs)	F'c psi	fb psi		fb/F'c	
	1	405.00	650		132	0.20	ОК
	2	405.00	650		66	0.10	ОК
	3	405.00	748		44	0.06	OΚ

Combi	Max	Max Span				
Qty		Axial	Lateral	Combined	Load	(in.)
	1	0.69	0.20	1.00	1293	110
	2	0.81	0.10	1.00	3012	277
	3	0.87	0.06	1.00	4854	455

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



onst. Type:
coupange;
lowable No.
Filoons:
dind Velocity:
re Rating of
dt. Walls:
low. Floor Laad:
40 PSF
low. Floor Laad:
77:29/2019

### **Sidewall Headers**

Grav	ity Lo	ading				Wind Loading		Zone =	Exterior	
	W =	-208	ρlf	LL∆ = L/	240	C&C =	41.8	psf		
	DL =		•	TLΔ = L/		MWFRS =		•		
	LL =		•	Cd <sub>GRAV</sub> =		$LL\Delta = L/$		Cd <sub>WIND</sub> =	1.6	
			•	01017				Wiitb		
		Qty	b	d	Grade	Species	Direction	$Cfu_GRAV$	$Cfu_{WIND}$	$C_fb$
1		3	1.5	3.5	#2	SYP	Edge	1	1.1	1
2		3	1.5	5.5	#2	SYP	Edge	1	1.15	1
3		3	1.5	7.25	#2	SYP	Edge	1	1.15	1
4		3	1.5	9.25	#2	SYP	Edge	1	1.2	1
5		3	1.5	11.25	#2	SYP	Edge	1	1.2	1
		. /:	o (; .o)	s (; .ss)		. (:	_, .			
_				Sy (in^3)			Fb psi	Fv psi	E psi	Emin psi
1		15.75	9.19	3.94	16.08	2.95				510000
2		24.75		6.19	62.39	4.64				510000
3		32.63		8.16						510000
4		41.63		10.41						510000
5		50.63	94.92	12.66	533.94	9.49	750	175	1400000	510000
		F <sub>b</sub> '	F <sub>v</sub> '	Е	C	c '	<b>.</b> '			
				F <sub>bE</sub>	C <sub>L</sub>	F <sub>bEdge</sub> '	F <sub>bFlat</sub> '			
1		1265	175	3499	0.97	2024				
2		1150		1529	0.90					
3		1064		974	0.78					
4		920		681	0.67	1472				
5		863	175	512	0.56	1380	1656			
			Gravi	ity Only		1	Lateral Onl	V	Comb	ined
		М	V	LLΔ	TLΔ	М	V	, LLΔ	М	V
1		62.5	165.9		80.6	74.8				129.42
2		90.3		127.4	126.7	91.4				203.38
3		106.3		167.9	167.0	101.0				268.09
4		117.1			213.1	108.3				342.04
5		125.8	533.3		259.1	115.7		99.0		415.99

### Summary

	Qty	b	d		Grade	Species	Direction	Max Span
1		3	1.5	3.5	#2	SYP	Edge	61.7 in
2		3	1.5	5.5	#2	SYP	Edge	78.0 in
3		3	1.5	7.25	#2	SYP	Edge	85.5 in
4		3	1.5	9.25	#2	SYP	Edge	92.7 in
5		3	1.5	11.25	#2	SYP	Edge	99.0 in

Florida Manufactured Building Act and adopted Codes and adhere to the following criteria Const. Type: Occupancy: Allowable No. of Floors; Wind Velocity: Fire Rating of Ext. Walls: Plan No.: Allow. Floor Load Approval Date:

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp. 6
0 hr
MFT2437-MF764-750-108
4 40 PSF
729/2019

### **Sidewall Stud**

						W =	-259 p	lf		
L =	103.5 in	1	Ke =	1		DL =	169 p	lf		
d =	5.5 in	1	le =	103.5	in	LL =	160 p	lf		
t =	1.5 in	1	le/d =	18.82	< 50 OK					
			Cd =	1						
Spacing =	16 in	1	Cf(Fc) =	1.15		Cf(Fb) =	1.5			
	Fb psi Ft	t psi	Fv psi	Fc <sup>⊥</sup> psi	Fc psi	E psi	Emin psi			
#2 SYP	1000	600	175	565	1400	1400000	510000			
Qty						Bearing Ca	pacity			
2	16.50	15.13	41.59	1500	1610	9323				
3	24.75	22.69	62.39	1725	1610	13984				
4	33.00	30.25	83.19	1725	1610	18645				
5	41.25	37.81	103.98	1725	1610	23307				
6	49.50	45.38	124.78	1725	1610	27968				
Avial Com	Avial Compression									

Axiai C	compre	ession						Axial
Qty	Fc	E psi αc	Ср	F'c	psi fc psi	fc/F'	С	Capacity
	2	1184	0.74	0.58	930	170	0.18 <b>OK</b>	15340 lbs
	3	1184	0.74	0.58	930	192	0.21 <b>OK</b>	23010 lbs
	4	1184	0.74	0.58	930	193	0.21 <b>OK</b>	30680 lbs
	5	1184	0.74	0.58	930	193	0.21 <b>OK</b>	38350 lbs
	6	1184	0.74	0.58	930	193	0.21 <b>OK</b>	46020 lbs

Lateral Ber	nding	W =	40.8 psf	
Qty	M (in-lbs)	F'c psi	fb psi	fb/F'c
2	30067	2400	1988	0.83 <b>OK</b>
3	50269	2760	2216	0.80 <b>OK</b>
4	66915	2760	2212	0.80 <b>OK</b>
5	83561	2760	2210	0.80 <b>OK</b>
6	100207	2760	2208	0.80 <b>OK</b>

Combine	d Stres	ses			Max Load	Max Span	
Qty	Axial		Lateral	Combined	(lbs)	(in.)	
	2	0.18	0.83	1.00	2810	190	**Note: Stud quantity
	3	0.21	0.80	1.00	4757	332	represents combined jack and
	4	0.21	0.80	1.00	6363	449	jamb total
	5	0.21	0.80	1.00	7967	566	
	6	0.21	0.80	1.00	9577	683	

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



Const. Type: VB Unprotected
Occupancy: Single Family Divelling
Allowatelia No.
One
150 mmh xvult 116 xasd Fires Rating of
Ed: Walls
Ed: Walls
Dhr
MFT2437-MET64-750Allow, Floot Load: 40 PSF
729-7010 Jan.

#### **Header Connections**

Zone = 5 H = 80 in W = 36 in 108 in Wall H = Stud = 16 in o.c. 188 plf C+C = 41.8 psf C +C = Uplift = 208 plf Fr = 280 plf F = 420 lbs .131" Z = 114 lbs

### **Header to King Stud**

F = 420 lbs 4 nails

#### Stud to Plate

W1 = 28 plf a = 68 in W2 = 91 plf c = 40 in R top = 475 lbs R bot = 405 lbs Max = 475 lbs 5 nails

### Uplift

Truss = 16 in o.c. F = 451 lbs LSTA15 1110 lbs 1 straps These prints comply with the Florida Manufactured Buildir Act and adopted Codes and adhers to the following criteria.

Zone 4

Zone 5

-33.8412

-41.7727



nst. Type:	VB Unprote
cupancy:	Single Famil
owable No.	
Floors:	One
nd Velocity:	150 mph vul
e Rating of	
t. Walls:	0 hr
n No.:	MFT2437-M
ow. Floor Load:	40 PSF
proval Date:	7/29/2019_

#### **Header Connections**

Zone = H = 80 in W = 72 in 108 in Wall H = Stud = 16 in o.c. 152 plf C+C = 33.8 psf C +C = Uplift = 208 plf Fr = 258 plf F = 773 lbs .131" Z = 114 lbs

### **Header to King Stud**

F = 773 lbs 7 nails

#### Stud to Plate

W1 = 23 plf a = 68 in W2 = 124 plf c = 40 in R top = 737 lbs R bot = 578 lbs Max = 737 lbs 7 nails

### Uplift

Truss = 16 in o.c. F = 763 lbs LSTA15 1110 lbs 1 straps These prints comply with the Florida Manufactured Building Act and adopted Codes and adhers to the following criticals

Zone 4

Zone 5

-33.8412 -41.7727



st. Type: VB Unprotest 
upanoy: Single Family 
vable No. One 
1 Velocity: 150 mph vult. 
Rating of 
Wells: 0 hr 
No.: MET 2437-ME 
vola Date: 7/29/2019

VB Unprotected
Single Family Dwelling
One
150 mph vult 116 vasd Exp C
0 hr
MFT2437.MF764.750.108

#### **Overhang Calculation (Cantilever Under Top Chord)**

### **Loading Conditions:**

Loading Cond	ditions:		1	$C_D$ :	1
1	LL:	20 psf	2	C <sub>D</sub> :	1.6

**2** LL: -62.923 psf LLΔ L/ 180 DL: 7 psf TLΔ L/ 180

**Loading Conditions:** 

	Width	Depth	Species	Grade	Fb	Fv	E	$C_F$	
	2.5	1.5	SP	#2	1100	175	1400000	1	
	Spacing	Qty	A in <sup>2</sup>	S in <sup>3</sup>	I in <sup>4</sup>	Cr	F'b	F'v	E'
1a	16	1	3.75	0.9375	0.7031	1.15	1265	175	1400000
1b	16	1	3.75	0.9375	0.7031	1.15	1265	175	1400000
2a	16	1	3.75	0.9375	0.7031	1.15	2024	280	1400000
2b	16	1	3.75	0.9375	0.7031	1.15	2024	280	1400000

**Design Limits** 

	Bending	Shear	Max Span	LLΔ	TLΔ
1a	28	147	28 in	0.0013 OK	0.0018 OK
1b	56	292	56 in	0.0098 OK	0.0132 OK
2a	23	102	23 in	0.0042 OK	0.0042 OK
2b	23	102	23 in	0.0368 OK	0.0368 OK

Connections: Overhang L: 12 in Truss Spacing = 24 in

Worst Case Reactions Normalized to Ld = 1.0

	Load at Truss	Load at Gable	Load at Truss	Load at Gable
1a	18	-	18 lbs	131 lbs
1b	18	-		
2a	-21	-209.74		
2b	-	-188.77		

#### Notes:

1a Overhang loaded only1b Truss bay loaded only2a Overhang loaded only

**2b** Overhang and truss bay loaded

Overhang equal to Truss Spacing

.131" x 3" nail (Ld=1.0) W = 31 lbs

(3) nails per truss = 93 lbs > 18 **OK** 

Load at Gable = 131 lbs

Bearing on Gable Endwall **OK** 

These prints comply with the Florida Manufactured Buildir Act and adopted Codes and adhere to the following criter





#### **COMPANY**

Erik Myers PE PLLC 2805 28th St Parkersburg, WV 26104 (304)-834-9510 July 17, 2019 12:02

#### **PROJECT**

14-10 On Frame Floor Joist.wwb

### **Design Check Calculation Sheet**

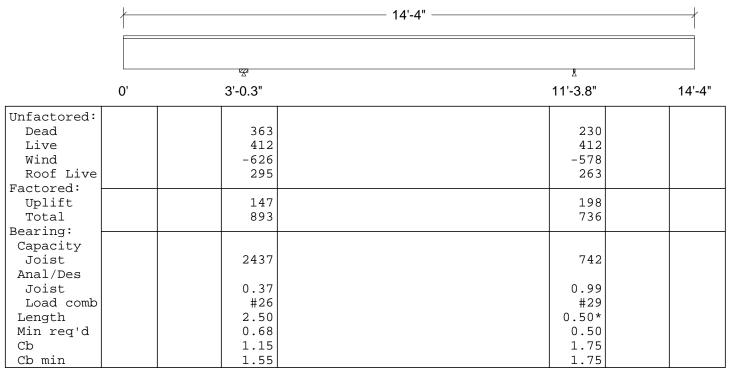
WoodWorks Sizer 10.2

#### Loads:

Load	Туре	Distribution	Pat-	Location	[ft]	Magnitude	Unit
			tern	Start	End	Start End	
Load1	Dead	Point	No	0.00		214	lbs
Load3	Roof constr.	Point	Yes	0.00		216	lbs
Load4	Roof constr.	Point	Yes	14.33		193	lbs
Load5	Live	Full Area	Yes			40.00 (16.0)*	psf
Load6	Dead	Full Area	No			10.00 (16.0)*	psf
Load7	Wind	Point	No	14.33		-588	lbs
Load9	Wind	Point	No	0.00		-616	lbs
Load10	Dead	Point	No	14.33		137	lbs
Self-weight	Dead	Full UDL	No			3.6	plf

<sup>\*</sup>Tributary Width (in)

### Maximum Reactions (lbs), Bearing Capacities (lbs) and Bearing Lengths (in):



<sup>\*</sup>Minimum bearing length setting used: 1/2" for interior supports

#### Lumber n-ply, S. Pine, No.2, 2x10, 1-ply (1-1/2"x9-1/4")

Supports: All - Non-wood

Floor joist spaced at 16.0" c/c; Total length: 14'-4.0";

Lateral support: top= full, bottom= at supports; Repetitive factor: applied where permitted (refer to online help);

Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



#### 14-10 On Frame Floor Joist.wwb

#### WoodWorks® Sizer 10.2

#### Page 2

### Analysis vs. Allowable Stress (psi) and Deflection (in) using NDS 2012:

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	fv = 55	Fv' = 219	fv/Fv' = 0.25
Bending(+)	fb = 462	Fb' = 1472	fb/Fb' = 0.31
Bending(-)	fb = 783	Fb' = 786	fb/Fb' = 1.00
Deflection:			
Interior Live	0.12 = L/850	0.28 = L/360	0.42
Total	-0.12 = L/819	0.41 = L/240	0.29
Cantil. Live	-0.21 = L/169	0.20 = L/180	1.06
Total	-0.15 = L/247	0.30 = L/120	0.49

#### **Additional Data:**

```
FACTORS:
            F/E(psi)CD
                           CM
                                  Ct
                                         CL
                                                CF
                                                       Cfu
                                                               Cr
                                                                    Cfrt
                                                                            Ci
                                                                                   Cn
                                                                                        LC#
                          1.00
 Fv'
            175
                                 1.00
                                                                    1.00
                   1.25
                                                                           1.00
                                                                                  1.00
                                                                                          3
 Fb'+
                                 1.00
                                       1.000
                                                       1.00
                                                              1.15
            750
                    1.60
                          1.00
                                               1.067
                                                                    1.00
                                                                           1.00
                                                                                          8
Fb'-
            750
                   1.25
                          1.00
                                        0.683
                                                       1.00
                                                                                          3
                                 1.00
                                               1.067
                                                              1.15
                                                                    1.00
                                                                           1.00
            565
                          1.00
                                 1.00
                                                                           1.00
 Fcp'
                                         _
                                                                    1.00
 Ε'
            1.4 million
                          1.00
                                 1.00
                                                                    1.00
                                                                           1.00
                                                                                          8
 Emin'
           0.51 million
                          1.00
                                 1.00
                                                                    1.00
                                                                           1.00
                                                                                          8
```

#### CRITICAL LOAD COMBINATIONS:

```
Shear : LC #3 = D+.75(L+Lr), V = 548, V = 505 lbs
```

Bending(+): LC #8 = .6D+.6W, M = 824 lbs-ft Bending(-): LC #3 = D+.75(L+Lr), M = 1396 lbs-ft

Deflection: LC #8 = .6D + .6W (live)

LC #28 = (total)

D=dead L=live S=snow W=wind I=impact Lr=roof live Lc=concentrated E=earthquake

All LC's are listed in the Analysis output

Load Patterns: s=S/2, X=L+S or L+Lr, \_=no pattern load in this span

Load combinations: ASCE 7-10 / IBC 2012

#### CALCULATIONS:

Deflection: EI = 139e06 lb-in2

"Live" deflection = Deflection from all non-dead loads (live, wind, snow...)

Total Deflection = 1.00(Dead Load Deflection) + Live Load Deflection.

#### **Design Notes:**

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2012), the National Design Specification (NDS 2012), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Continuous or Cantilevered Beams: NDS Clause 4.2.5.5 requires that normal grading provisions be extended to the middle 2/3 of 2 span beams and to the full length of cantilevers and other spans.
- 4. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
- 5. FIRE RATING: Joists, wall studs, and multi-ply members are not rated for fire endurance.
- 6. The critical deflection value has been determined using maximum back-span deflection. Cantilever deflections do not govern design.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria APPROVED BY Const. Type:
Occupancy:
Allowable No,
of Floors:
Wind Velocity;
Fire Rating of
Ext. Walls:
Plan No.:
Allow. Floor Load:
Approval Date:
Manufacturer;



## Load Short Form Entire House AMS of Indiana, Inc.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria 
APPROVED BY

Job: ME764-750-108 FL

Date: 7/19/19

By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 Email: eng-ams@comcast.net

## **Project Information**

For: DESTINY HOMES ME764-750-108 FL

		Desigr	n Information		
	Htg	Clg	Infil	tration	
Outside db (°F)	54	91	Method	Simplified	
Inside db (°F)	70	75	Construction quality	Average	
Design TD ( °F)	16	16	Fireplaces	· ·	0
Daily range	-	L	·		
Inside humidity (%)	50	50			
Moisture difference (gr/lb)	4	67			

#### **HEATING EQUIPMENT**

#### **COOLING EQUIPMENT**

Make	Generic			Make	Generic			
Trade				Trade				
Model	AFUE 100			Cond	SEER 13.0			
AHRI ref				Coil				
				AHRI ref				
Efficiency		100 AFUE		Efficiency	11	1.6 EER, <sup>-</sup>	13 SEER	
Heating inpu	ut	4.2	kW	Sensible co	ooling		29655	Btuh
Heating out	out	14185	Btuh	Latent cool	ing		7414	Btuh
Temperature	e rise	10	°F	Total coolin	ng		37069	Btuh
Actual air flo	OW	1327	cfm	Actual air f	low		1327	cfm
Air flow fact	tor	0.104	cfm/Btuh	Air flow fac	ctor		0.045	cfm/Btuh
Static press	sure	0.50	in H2O	Static pres	sure		0.50	in H2O
Space thern	nostat			Load sensil	ble heat ratio		0.75	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
U	101	628	768	66	35
BA2	73	419	667	44	30
B3	161	1194	2014	125	91
B4	165	754	1692	79	76
B2	161	1194	2205	125	99
FAM	291	1249	3565	130	161
DIN	158	785	2425	82	109
LIV	268	1430	5815	149	262
KIT	285	1294	3791	135	171
WIC	48	233	245	24	11
MBR	273	1703	3827	178	173
MBA	235	1148	1574	120	71
LINEN	43	502	437	52	20
WC	l 19	l 180	l 406	<sup>l</sup> 19	l 18

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Entire House Other equip loads Equip. @ 0.96 RSM Latent cooling	2280	12713 1472	29432 1490 29655 10486	1327	1327
TOTALS	2280	14185	40141	1327	1327

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



# Project Summary Entire House AMS of Indiana, Inc.

Job: ME764-750-108 FL

Date: 7/19/19 AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 Email: eng-ams@comcast.net

### Project Information

DESTINY HOMES ME764-750-108 FL For:

Notes:

These prints comply with the Florida Manufactured Building Act and adopted Codes and

APPROVED BY

VB Unprotected 150 mph vult 116 vasd Exp C

### **Design Information**

Weather: Key West/Int., FL, US

### **Winter Design Conditions**

### **Summer Design Conditions**

Outside db Inside db	54 °F 70 °F	Outside db Inside db	91 ℉ 75 ℉
Design TD	76 F	Design TD	16 °F
2 00.g 12		Daily range	Ľ
		Relative humidity	50 %
		Moisture difference	67 gr/lb

#### **Heating Summary**

### Sensible Cooling Equipment Load Sizing

Structure Ducts Central vent (85 cfm)	7739 Btul 4974 Btul 1472 Btul	n Ducts	22893 Btuh 6539 Btuh 1490 Btuh
Outside air Humidification	0 Btuł	Outside air n Blower	0 Btuh
Piping Equipment load	0 Btuł 14185 Btuł	u Use manufacturer's data	n
Infiltration	า	Rate/swing multiplier Equipment sensible load	0.96 29655 Btuh

	Simplified Average	Latent Cooling Equipmen	t Load	Sizing
	0	Structure	3901 2689	Btuh Btuh
Hooting	Cooling	Central vent (85 cfm)	3897	Btuh
2280	2280	Equipment latent load	10486	Btuh
0.32	0.16	Equipment Total Load (Sen+Lat)  Reg. total capacity at 0.80 SHR	40141 3.1	Btuh ton
	20520	Average 0 Heating Cooling 2280 2280 20520 20520 0.32 0.16	Average 0 Structure Ducts Central vent (85 cfm)  Heating Cooling 2280 2280 Equipment latent load 20520 20520 0.32 0.16 Equipment Total Load (Sen+Lat)	Average 0 Structure 3901 Ducts 2689 Central vent (85 cfm) 3897  Heating Cooling Outside air 2280 2280 Equipment latent load 10486 20520 20520 0.32 0.16 Equipment Total Load (Sen+Lat) 40141

#### H

leating Equipment Summary		<b>Cooling Equipment Summary</b>
Generic	Make	Generic

Trade

Load sensible heat ratio

AFUE 100 Model Cond **SEER 13.0** AHRI ref Coil AHRI ref 100 AFUE 11.6 EER, 13 SEER Efficiency Efficiency Heating input Heating output 4.2 kW 14185 Btuh 29655 7414 Sensible cooling Btuh Latent cooling Btuh Temperature rise 10 ٩F Total cooling 37069 Btuh Actual air flow 1327 cfm Actual air flow 1327 cfm cfm/Btuh cfm/Btuh Air flow factor 0.104 Air flow factor 0.045 Static pressure 0.50 in H2O Static pressure 0.50 in H2O

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

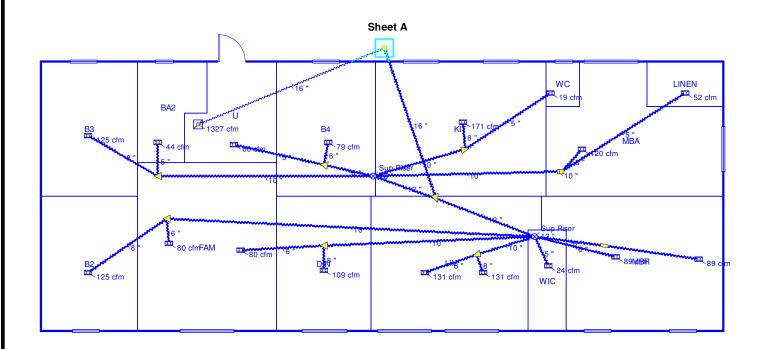
Space thermostat

Make

Trade

0.75





These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



net. Type:

variatio No.

viii Floor Load;

d Veb Unprotected

single Family Dwelling

Single Family Dwelling

One

150 mph vult 116 vasd I

150 m

Job #: ME764-750-108 FL
Performed by AMS of Indiana, Inc. for:

DESTINY HOMES

ME764-750-108 FL

AMS of Indiana, Inc.

3933 E. Jackson Blvd. Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 eng-ams@comcast.net Scale: 1 : 128

Page 1

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# **Duct System Summary Entire House**

AMS of Indiana, Inc.

Job: ME764-750-108 FL

Date: 7/19/19

AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 Email: eng-ams@comcast.net

### **Project Information**

For: **DESTINY HOMES** ME764-750-108 FL

Heating Cooling 0.50 in H2O External static pressure 0.50 in H2O 0.30 in H2O Pressure losses 0.30 in H2O 0.20 in H2O 0.20 in H2O Available static pressure Supply / return available pressure 0.151 / 0.049 in H2O 0.151 / 0.049 in H2O Lowest friction rate 0.059 in/100ft 0.059 in/100ft Actual air flow 1327 cfm 1327 cfm Total effective length (TEL) 340 ft

### **Supply Branch Detail Table**

Name		esign Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
B2	h	1194	125	99	0.059	8.0	0x 0	VIFx	91.2	165.0	st12
B3	h	1194	125	91	0.065	8.0	0x 0	VIFx	68.1	165.0	st3
B4	h	754	79	76	0.073	6.0	0x 0	VIFx	43.3	165.0	st4
BA2	h	419	44	30	0.066	5.0	0x 0	VIFx	62.9	165.0	st3
DIN	С	2425	82	109	0.066	8.0	0x 0	VIFx	65.8	165.0	st11
FAM	С	1783	65	80	0.064	6.0	0x 0	VIFx	72.3	165.0	st11
FAM-A	С	1783	65	80	0.061	6.0	0x 0	VIFx	83.3	165.0	st12
KIT	С	3791	135	171	0.071	8.0	<b>0</b> × <b>0</b>	VIFx	48.8	165.0	st5
LINEN	h	502	52	20	0.059	5.0	0x 0	VIFx	72.4	185.0	st7
LIV	С	2908	75	131	0.070	8.0	0x 0	VIFx	52.4	165.0	st10
LIV-A	С	2908	75	131	0.071	8.0	0x 0	VIFx	48.4	165.0	st10
MBA	h	1148	120	71	0.062	8.0	0x 0	VIFx	59.5	185.0	st7
MBR	h	852	89	86	0.071	6.0	0x 0	VIFx	57.9	155.0	st8
MBR-A	h	852	89	86	0.078	6.0	0x 0	VIFx	48.8	145.0	st8
U	h	628	66	35	0.070	5.0	0x 0	VIFx	51.0	165.0	st4
WC	h	180	19	18	0.068	5.0	0x 0	VIFx	57.2	165.0	st5
WIC	h	233	24	11	0.081	5.0	0x 0	VIFx	43.1	145.0	st8



Bold/italic values have been manually overridden



2019-Jul-19 12:47:20



Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

RE: MONO PEAK -

MiTek USA, Inc.

314-434-1200

16023 Swingley Ridge Rd

Chesterfield, MO 63017

Site Information: Customer Info: . Project Name: Model:

Lot/Block:

Address: Address

Subdivision:

State: State

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

License #: Name:

Address:

City: City

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):** 

Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6

Wind Code: ASCE 7-10 Wind Speed: 150 mph Roof Load: 34.0 psf Floor Load: N/A psf

This package includes 1 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

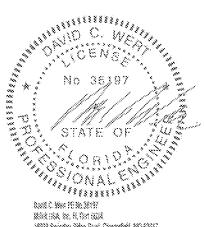
No.	Seal#	Truss Name	Date
1	130057782	SWM0040A	6/5/17

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Southern Wood Components.

Truss Design Engineer's Name: Wert, David

My license renewal date for the state of Florida is FEBRUARY 28, 2019.

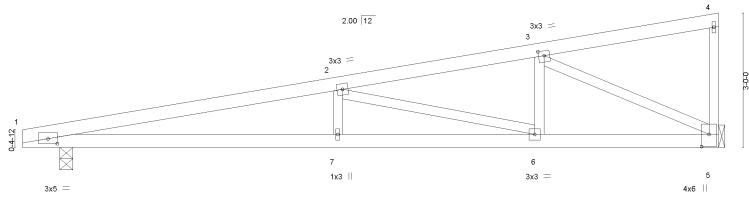
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



16023 Swinger Aldre Roed, Chesterfield, MO 50017

June 5,2017

Job Truss Truss Type 130057782 MONO\_PEAK SWM0040A MONO TRUSS Job Reference (optional) Southern Wood Components, Moultrie, GA 31776 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jun 05 13:15:57 2017 Page ID:tRsY1Yajm35jS?BW3tBTZ4ypJku-yD?Fi6WQcm8MmJ0WLHaSql4gTmZIAD7\_mkplbQz9K0W 10-8-8 6-2-8 6-2-8 0-10-0 4-6-0 4-0-0 1x3 || 4 2.00 12 3x3 =



		6-2	2-8		1	1	10-8-8				14-8-8	
		6-2	2-8				4-6-0				4-0-0	1
Plate Off	fsets (X,Y)	[1:0-2-8,0-1-6], [3:0-1-8,0	)-1-4], [5:0-3-4	4,0-2-0]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	0.16	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.57	Vert(TL)	-0.17	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.03	5	n/a	n/a		
BCDI	7.0	Code FBC2014/T	PI2007	(Mati	ix-M)	` ′					Weight: 61 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

WEBS

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x3 SP No.2 (lb/size) 1=555/0-3-8 (min. 0-1-8), 5=495/Mechanical

Max Horz 1=196(LC 6) Max Uplift 1=-462(LC 6), 5=-447(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1456/1372, 2-3=-786/721

BOT CHORD 1-7=-1508/1407, 6-7=-1506/1408, 5-6=-800/761 WEBS 3-6=-176/293, 3-5=-857/900, 2-6=-677/737

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=4.2psf; h=33ft; B=49ft; L=15ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 3) \*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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 1 and 447 lb uplift at joint 5.
- 5) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria

APPROVED BY

Const. Type: Occupancy: Allowable No. of Floors: Wind Velocity: Fire Rating of Ext. Walls: Plan No.: Allow. Floor Los VB Unprotected
Single Family Dwelling
One
150 mph voit 116 vasd Exp
0 hr
MFT2437-ME764-750-108

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Structural wood sheathing directly applied or 4-5-1 oc purlins,

Rigid ceiling directly applied or 4-8-14 oc bracing.

except end verticals.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

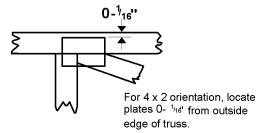


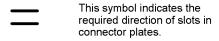
# Symbols

#### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.





<sup>\*</sup> Plate location details available in MiTek 20/20 software or upon request.

#### PLATE SIZE

 $4 \times 4$ 

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

#### LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

#### **BEARING**



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

#### Industry Standards:

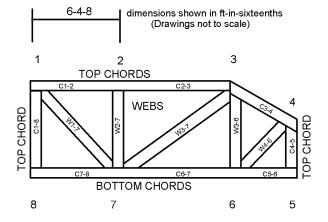
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVANCION CONTROL CONT APPROVED BY

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1 ER-3907, ESR-2362, ESR-1397, ESR-3282

Occupancy: Allowable No of Floors: Wind Velocity Fire Rating of Evt Malle: Plan No.: Allow. Floor Load: 40 PSF

VB Unprotected

MFT2437-ME764-750-108

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



# 🕰 General Safety Notes

#### Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

# **Supply Trunk Detail Table**

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3 st4 st5 st6	Peak AVF Peak AVF Peak AVF Peak AVF	168 144 154 172	121 111 189 91	0.065 0.070 0.068 0.059	309 413 347 316	10.0 8.0 10.0 10.0	0 x 0 0 x 0 0 x 0 0 x 0	VinlFlx VinlFlx VinlFlx VinlFlx	st2 st2 st2 st2
st7 st10 st11	Peak AVF Peak AVF	172 149 147	91 262 190	0.059 0.070 0.064	316 481 348	10.0 <b>10.0</b> 10.0	0 x 0 <b>0</b> x <b>0</b> 0 x 0	VinlFlx VinlFlx VinlFlx	st6 st8 st8
st12 st2 st1	Peak AVF Peak AVF Peak AVF	190 639 1327	180 512 1327	0.059 0.059 0.059	348 813 950	10.0 <b>12.0</b> <b>16.0</b>	0 x 0 0 x 0 0 x 0	VinlFlx VinlFlx VinlFlx	st8 st1
st8	Peak AVF	688	815	0.059	1038	12.0	<b>0</b> × <b>0</b>	VinlFlx	st1

# Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x 0	1327	1327	82.4	0.059	950	16.0	<b>0</b> x <b>0</b>		VIFx	

Bold/italic values have been manually overridden

# PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administration Code 61G20-3.006, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a permit. We recommend you contact your local supplier should you not know the product approval number for any of the applicable listed products.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1.EXTERIOR DOORS			1
A.SWINGING	KINRO	EXTERIOR DOOR	FL 16170 R3
B. SLIDING	KINRO	SLIDING DOORS	FL 2865.2 R11
C. SECTIONAL	NA	NA	NA
D. ROLL UP	NA	NA	NA
E. AUTOMATIC	NA	NA	NA
F. OTHER	NA	NA	NA
2. WINDOWS			
A. SINGLE HUNG	KINRO	WINDOW	FL 993.2 R16
B. HORIZONTAL SLIDER	NA	NA	NA
C. CASEMENT	NA	NA	NA
D. DOUBLE HUNG	NA	NA	NA
E. FIXED	NA	NA	NA
F. AWNING	NA	NA	NA
G. PASS THROUGH	NA	NA	NA
H. PROJECTED	NA	NA	NA
I.MULLION	NA	NA	NA
J.WIND BREAKER	NA	NA	NA
K. DUAL ACTION	NA	NA	NA
L. IMPACT WINDOWS	NA	NA	NA
3.PANEL WALL			
A. SIDING	JAMES HARDI	HARDI PANELS	EL 42400 4 DE
B.SOFFITS			FL 13192.1 R5
	JAMES HARDI	HARDI SOFFIT PANEL	FL 13265.1 R3
C. SHAKE	NA	NA	NA
D. STOREFRONTS	NA	NA	NA
E. CURTAIN WALLS	NA	NA These prints comply with the Const. Type: VB Unprotected Florida Manufactured Building Occupancy: Single Family Dw Arc and supplied Codes and Allowater No.	
F.WALL LOUVER	NA	NA adhere to the following criteria: of Floors: One Wind Velocity: 150 mph vult 116	NA C
G. GLASS BLOCK	NA	NA APPROVED BY Fire Rating of Ext. Walls: 0 hr	INA
H. MEMBRANE	NA	NA NA Allow. Floor Load: 40 PSF	NA .
. GREENHOUSE	NA	NA  Approval Date: 7/29/2019  Manufacturer: Destiny industries	ΝΆ
J. VINYL SIDING	NA	NA	NA
K. SIDING OPTIONAL	NA NA	NA	
4. ROOFING PROD.		IVO.	NA
A. ASPHALT SHINGLES	OWENS CORNING	OAKRIDGE PRO 30	FL 10674 R13
B. UNDERLAYMENT	ROBETEX INC	UNDERLAYMENT	FL 17194-R2
C. ROOFING FASTENING			
D. ROOF FASTENING	SIMPSON SIMPSON	SIMPSON H2.5A SIMPSON LSTA	FL10456.2-R4
E.METAL ROOF	UNION CORRUGATING	METAL ROOF	FL 10852.5-R4
F. ROOFING TILES			FL 20484.2 R1
	NA	NA	NA
G.ROOFING INSULATION	KNAUF	ROLLED INSULATION	NA
H. WATERPROOFING	TARCO	ICE AND SHEILD ARMOR	FL 10450 R10
BUILT UP ROOFING ROOF	NA	NA	NA
J. RIDGE VENT	GAF	RIDGE VENT	FL6267-R15
K. SGL PLY ROOF SYSTEM	NA NA	NA NA	NA
L. ROOFING SLATE	NA	NA	NA

M. CEMENTS-ADHESIVES COATING			
COATING	DAP	TAR IN TUBE	5.5
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
N. LIQUID APPLIED ROOF			
SYSTEMS	NA	NA	NA
O. ROOF TILE ADHESIVE P. SPRAY APPLIED	NA	NA	NA
POLYURETHANE ROOF	NA	Na.	l., .
Q. OTHER	NA NA	NA NA	NA NA
Q. OTTIER	INA	IVA	INA
5. SHUTTERS			
A. ACCORDION	NA	NA	NA NA
B. BAHAMA	NA	NA	NA
C. STORM PANELS	NA NA	NA NA	NA
D. COLONIAL	NA	NA NA	NA
E. ROLL-UP	NA NA	NA NA	
F. EQUIPMENT	NA	NA NA	NA
G. OTHERS			NA
G. OTHERS	MID ATLANTIC	LOUVERED	NA
6. SKYLIGHTS	NA	NA NA	NA
A. SKYLIGHTS	NA NA	NA NA	NA
B.OTHER	NA	NA NA	NA NA
5.611.211	IVA	IVA	INA
7.STRUCTURAL			
COMPONENTS			
A. WOOD CONNECTORS /			
ANCHORS	SIMPSON	LSTA12 STRONG TIE	FL 10852.5-R4
B. TRUSS PLATES	MITEK	MT20	FL 2197.4 R6
C. ENGINEERED LUMBER	NA	NA	NA
D. RAILING	NA	NA	NA
E. COOLERS- FREEZERS	NA	NA	NA
F. CONCRETE ADMIXTURES	NA	NA	NA
G. MATERIAL	NA	NA	NA
H. INSULATION FORMS	NA	NA	NA
I. PLASTICS	NA	NA	NA
J. DECK ROOF	NORBOARD	OSB	??
K. WALL	NA	NA NA	
L. SHEDS	NA	NA NA	NA NA
M. OTHER			NA NA
WI. OTTIEN	NA	NA	NA
8.NEW EXTERIOR ENVELOPE			Count Total VD Linesteed
BINEW EXTERIOR ENVELOPE PRODUCTS	1	These prints comply with the Florida Manufactured Building Act and adopted Codes and	Const. Type: VB Unprotected  Occupancy: Single Family Dwelling  Allowable No.
A.		adhere to the following criteria:	of Floors; One Wind Velocity: 150 mph vult 116 vasd Exp.C
В.		APPROVED BY	Fire Rating of
J		NO	Allow. Floor Load: 40 PSF

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufactures installation requirements. Further I. understand these products may have been removed if approval cannot be demonstrated during inspection.

APPLICANT SIGNATURE

DATE :