RANCH STRUCTURAL SYSTEM

MODEL: SVM-11815 SUN VALLEY HOMEBUILDERS

> 3 BEDROOM - 2 BATH NOMINAL SIZE 32'-0"x 68'-0" ACTUAL SIZE 30'-0" x 64'-0" TOTAL AREA: 1920 Sq. Ft.

FLORIDA STATE CODES

2020 National Electrical Code

8TH EDITION (2023)Florida Energy Effciency Code for Building Construction (W/2024 SUPPLEMENT 1)

FAC-61-41 MANUFACTURED BUILDINGS

8TH EDITION (2023) Florida Residential Code (W/2024 SUPPLEMENT 1)

THESE PLANS COMPLY WITH RULE 61G20-3.006 FOR PRODUCT APPROVAL

DWELLING IS NOT SPRINKLED

8'-0" Max **CEILING HEIGHT:** MEAN ROOF HEIGHT: 20 FT

CLIMATE ZONE: 2 **EXPOSURE FACTOR:** SEISMIC ZONE

DESIGN CRITERIA

OCCUPANCY GROUP CONSTRUCTION TYPE **RISK CATEGORY**

SINGLE FAMILY DWELLING WOOD FRAME UNPROTECTION

LOAD REQUIREMENTS

FLOOR LIVE LOAD 40 PSF FLOOR DEAD LOAD 10 PSF

WIND SPEED (VULT-160MPH)(VASD-124MPH)

16" O.C. TRUSSES THROUGHOUT HOME

20 PSF TC, 0 PSF BC **ROOF LIVE LOAD** 10 PSF TC, 10 PSF BC **ROOF DEAD LOAD**

REVISIONS

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SPECIAL CONDITIONS & REQUIREMENTS:

- 1. Any site added structures must be independent of the factory building unless the entire building is re-evaluated by the site engineer/architect.
- 2. Typical foundation layout shown in this package is to aid the site engineer/architect for locations of required supports. Actual foundation must be designed to site conditions for all applicable loads. This includes but is not limited to construction of the foundation, seismic design and attaching the home to the foundation, along with the resistance to lateral, longitudinal shear, uplift and downward forces in both directions. Refer to bracing page for applicable bracing / seismic loads for attaching the home to foundations.
- 3. The Engineer seal applies ONLY to FACTORY MANUFACTURED portions of the building. Seal does not apply to site installed elements or portions built on site such as, but not limited to; foundation, bracing tie down to foundation, exterior steps, or other site work. Site work must be designed BY OTHERS for site conditions, under local jurisdiction.

This building shall not be installed in locations with higher loads than designed loads specified in this package

STRUCTURAL SPECIFICATIONS INDEX **COVER SHEET**

SUPPLEMENTAL COVER SHEET

TYPICAL NOTE-(FLOOR / ELECTRICAL / WINDOW)

A.03 TYPICAL FLOOR PLAN/ ELECTRICAL **RESERVED**

A.05 **EXTERIOR ELEVATION**

A.06 TYPICIAL PLUMBING LAYOUT

A.06.1 DWV LINES A.06.2 SUPPLY LINES

TYPICAL CROSS SECTION (OFF-FRAME)(RESERVED) A 09

A 09 1 TYPICAL CROSS SECTION (ON-FRAME)

A.13 (RESERVED)

A.13.1 (RESERVED)

A.13.2 HVAC DETAILS(Free Return Air)

A.14.0 FOUNDATION OFF FRAME (RESERVED) A.14.1 ALT. FOUNDATION ON FRAME (RESERVED)

SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL

- 1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
- 2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING
- 3. PORTABLE FIRE EXTINGUISHER(S).
- 4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
- 5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
- 6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS.
- 7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) - (MULTI-UNITS ONLY).
- 8. STRUCTURAL ÁND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
- 9. EXTERIOR GLAZING PROTECTION.
- 10. GUTTERS & DOWN SPOUTS WHEN REQUIRED.
- 11. HVAC EQUIPMENT AND CONNECTIONS.
- 12. WASHER AND DRYER.
- 13. FIREPLACE FLUE.
- 14. MATELINE DOORS.
- 15. BUILDING SHALL BE OVER 5' AWAY FROM ALL PROPERTY LINES. 16. ALL PLUMBING BELOW FLOOR SYSTEM
- 17. SINGLE RIDGE CAP AND SET-UP OF FOLD DOWN TRUSS IF APPLICABLE
- 18. DRYER VENT TO BE RAN TO EXTERIOR
- 19. RETURN AIR SIZE MUST BE CHECKED FOR PROPER SIZE
- WITH HEAT PUMP INSTALLATION PROTECTION OF OPENINGS: REF. R301.2.1.2 (IRC)
- PROVIDED ON-SITE BY OTHERS
- 19. HOME MUST BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.

Nader Tomasbi, P.E.

Goshen IN 46526

58665 Glenriver Drive

DATE 7/12/2024 CERT. NO SMP-056 PLAN NUMBER MFT10186-SVM-11815 APPROVED BY Michael Faller

DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM

> DEER VALLEY HOMEBUILDERS, INC. 205-468-8400 P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563

J.TRIPLETT NTS 07/03/24 **COVER SHEET** SVM-11815 A.01 MFT10186-SVM-11815

LICENS ... No. 56556 lu Jam STATE OF SONAL ENGIN

Wind Importance Factor:__ Internal Pressure Coefficient:

7/11/2024

ADDITIONAL SPECIAL CO	NDITIONS AND/OR LIMIT	TATIONS AND/OR ITEM	IS SUBJECT TO
		D. STRUCTURAL	

1. INTERCONNECTION BETWEEN MODULES. 2. SERVICE ENTRANCE AND GROUNDING ELECTRODE CONDUCTORS.
3. FIRE WARRING EQUIPMENT IS TO BE TESTED FOR PROPER OPERATION SEE EQUIPMENT INSTRUCTIONS.

PLUMBING 1. ALL PIPING CROSSOVER CONNECTIONS BELOW FLOOF

1. ALL PIPING CROSSOVER CONNECTIONS SELOW FLOOR.
2. WITNESS LEAKAGE TEST OF GAS, DWG AND WATER SUPPLY SYSTEMS.
3. CONNECTION TO GAS, SEWER AND WATER UTILITIES.
4. WITH HINGE ROOF PLUMBING MUST BE FINISHED ON SITE BY OTHERS.
5. OFF FRAME HOUSE ALL GAS APPLIANCE WILL HAVE TO BE PLUMBED ON SITE BY OTHERS.

C. HEATING 1. CROSS-OVER CONNECTION BETWEEN UNITS..

2. RETURN AIR CONNECTION HAVE TO BE HOOKED UP IF REQUIRED 3. A DUCT TIGHTNESS TEST IS REQUIRED TO BE PERFFORMED ON SITE AND SHALL

3. A DUCT TIGHT NESS TEST IS REQUIRED TO SEPERFFORMED ON SITE AND SHALL BE VERRIFED BY EITHER OF THE FOLLOWING:
POST-CONSTRUCTION TEST: LEAKAGE TO OUTDOORS SHALL BE LESS THEN OR EQUAL
TO 8CFM(225.5lmin) PER 100 ftz (9.29m2 OF CONDITIONED FLOOR AREA WHEN TESTED AT
A PRESSURE DIFFRENTIAL OF TOTAL LEAKAGE LESS THEN OR EQUAL TO 12 cfm (12 Min)
PER 100/FTZ (9.29 M2 OF CONDITIONED FLOOR ARE WHEN TESTED AT A PRESSURE DIFFRENTIAL
OF 0.1 INCHES W.G. (28-9) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURERS AIR
HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING

FLORIDA BUILDING MAT

.01 SIMPSON LTS & LSTA & CS14

A. SIMPSON LTS- FL-10456.18-R8

B. SIMPSON CS14- FL-10456.3-R8 C. SIMPSON LSTA- FL-13872.5-R5

D. SIMPSON H2.5A- FL-10456.7-R8

G. SIMPSON HDU FL-10441.4-R9

OWENS CORNING SHINGLES

A. FL- 15362 R4 (9-LITE)

B. FL- 15362.1 R4 (6 PANÉL)

C. FL- 15362.3 R4 (ATRIUM)

A. FL- 10674-R19

CROFT WINDOWS

A. FL- 16082.1-R8

DUNBARTON DOORS

CEMPLANK LAP SIDING

A. FL- 13192 -R8

CEMPLANK SIDING

A. FL- 13223 - R8

CEMPLANK PANELS

A. FL- 13265.1-R7

VINYL SIDING

A. FL- 15935-R7

MFM SHINGLE STARTER A. FL- 11842.1-R9

E. SIMPSON HTS16- FL-10456.12 - R8 F. SIMPSON SDWC15600- FL-13975.2-R7

H. SIMPSON MSTC66- FL-13872.10-R5

DATA SHEET AND THE STATE (DBPR) INSIGNIA SHALL BE PERMANENTLY MOUNTED TO OR

MOD

LOCAL I THE DESIGN AND CONSTRUCTION OF THE FOUNDATION SYSTEM 2. COMPLETION OF EXTERIOR SIDING AT END WALLS.

2. CONVECTION OF LATER AND AN ALTHOUGH.
4. CONNECTION OF FLOOR SYSTEM.
5. CONNECTION OF ROOF SYSTEM @ RIDGE.
6. CONNECTION OF GROUND ANCHORS.

OONNECTION OF GROUND ANCHORS.
 PORCH RAILS ON SITE BY OTHERS PER THE (IRC R312).
 RITUSS OVER THE INTERIOR SHEAR WALL ARE TO BE SHEATHED WITH HINGED ROOFS SHEATHED HAS TO BE FINSHED.

ON SITE BY OTHERS.

9. SIDING FOR ENDS IS SHIPPED LOOSE FOR ON SITE INSTALLATION BY OTHERS

10.HANDRAILS, STOOPS, STAIRS, GUTTERS, DOWNSPOUTS, STORM SHUTTERS OR REMOVABLE TYPE COVERINGS, AND SPLASH BLOCKS ARE FURNISHED AND INSTALLED BY OTHERS IN ACCORDANCE WITH STATE AND LOCAL CODES

A. RAISED SET OF PLANS ARE ON FILE IN THE 3rd PARTY AGENCY'S OFFICE AS DIRECTED BY THE DBPR

B. THIS BUILDING HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HVHZ (i.e. DADE OR BROWARD)

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

D. THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION OR INSTALLATION ON A SITE BUILT PERMANENT

E. SITE ADDRESS PER FRC R 319.1 ON SITE BY OTHERS

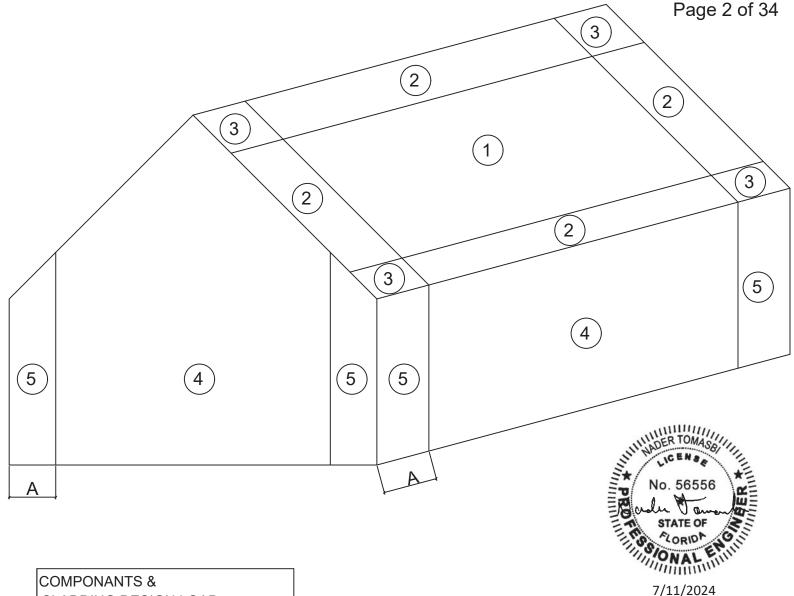
SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

- 1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
- 2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
- 3. PORTABLE FIRE EXTINGUISHER(S).
- 4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
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- 10. GUTTERS & DOWN SPOUTS WHEN REQUIRED.
- 11. HVAC EQUIPMENT AND CONNECTIONS.
- 12. WASHER AND DRYER.
- 13. FIREPLACE FLUE.
- 14. MATELINE DOORS.
- 15. BUILDING SHALL BE OVER 3' AWAY FROM ALL PROPERTY LINES. 16. ALL PLUMBING BELOW FLOOR SYSTEM
- 17. SINGLE RIDGE CAP AND SET-UP OF FOLD DOWN TRUSS IF APPLICABLE
- 18. DRYER VENT TO BE RAN TO EXTERIOR
- 19. RETURN AIR SIZE MUST BE CHECKED FOR PROPER SIZE WITH HEAT PUMP INSTALLATION

NOTES:

- 1. THESE PLANS COMPLY WITH RULE 61G20-3.006 FOR PRODUCT APPROVAL
- 2. THE RAISED SEAL SET OR ELECTRONIC SEALED SET) OF PLANS ARE ON FILE IN THE 3 RD PARTY AGENCY'S OFFICE AS DIRECTED BY THE DBPR
- 3.THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF THE FIRE INSPECTOR ON SITE WITH COMPLIANCE WITH CH.633 FIRE SAFETY CODE.
- 4.THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION OR INSTALLATION ON SITE BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.
- 5.BUILDING ADDRESS AS REQUIRED BY FRC R319.1 TO BE INSTALLED ON SITE BY OTHERS
- 6.BUILDING HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ).



COMPO					
CLADDII SCHEDU	NG DESI	GN	LOAD	ODEEO)	
SCHEDU	JLE (/ <l< td=""><td>1>31</td><td>J.26DE</td><td>:GREES)</td><td>)</td></l<>	1>31	J.26DE	:GREES))
EXPOSU	JRE FAC	ТО	R:	С	
		VI	JLT PF	RESSUR	ES
ZONE	(4)			<i>(</i>)	

		V	JLT PRESSURES
ZONE	(+)		(-)
1	32.58		-59.70
2	32.58		-65.70
3	32.58	}	-80.46
4	35.58	}	-38.58
5	35.58	3	-47.64
2			-89.82
3			-104.58

MOD

MFT10186-SVM-11815

NTS

A.01.1

Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-
Allow. Floor Load:	40 PSF
Approval Date:	7/12/2024
Manufacturer:	Deer Valley Home
	Plan No.: Allow. Floor Load: Approval Date:

REVISIONS	CUSTOMER	APPROVAL STAMP:	DEER VALLEY HOMEBUILDERS, INC.	J.TRIPLETT
			SIGNATURE SERIES RANCH STRUCTURAL SYSTEM	07/03/24
	-		DEER VALLEY HOMEBUILDERS, INC. 205-468-8400	COVER SHEET
	-		Deer Valley P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563	SVM-11815

NOTES:

- 1. LIGHT AND VENTILATION PROVIDED WILL BE IN ACCORDANCE WITH 6. OVERALL DIMENSIONS OF HOME WILL VARY ACCORDING TO 8% OF THE ROOM AREA FOR LIGHT AND 4% OF THE ROOM AREA FOR VENTILATION.
- ROOMS: DINING ROOMS, FAMILY ROOMS, DENS, BEDROOMS,
- 2. FOR DOOR AND WINDOW SIZES SEE SPEC. (SEE PAGE A.02.) 3 INDIVIDUAL COMPONENTS IN WHOLE OR IN PART SUCH AS LIVING LINEN AND CLOTHES CLOSETS, UTILITY AREAS, STAIRWELLS, BATHS, KITCHENS, ETC. MAY BE INTEGRATED WITH ANY FLOOR PLAN. THEY MAY BE ROTATED 90 DEGREES AND/OR REVERSED IN ANY DIRECTION, IN PART OR IN THEIR ENTIRETY.
- 4. ALL FLOOR PLANS MAY BE ROTATED 180 DEGREES AND/OR REVERSED IN ANY DIRECTION IN PART OR IN THEIR ENTIRETY
- 5. ALL INDIVIDUAL FLOOR PLANS WILL BE WITHIN THE DIMENSIONAL LIMITS SHOWN ON THIS DRAWING
- THICKNESS OF SHEATHING MATERIAL INSTALLED TO THE EXTERIOR SURFACE OF EXTERIOR WALLS AND TO EXTERIOR SURFACE OF THE MARRIAGE WALLS OF EACH HOME SECTION.
- 7. EGRESS WINDOWS SHALL HAVE A MIN. CLEAR WIDTH OF 20" AND A MIN. CLEAR HEIGHT OF 24" WITH A TOTAL CLEAR OPENING OF 5.7 SQ.FT. WINDOW GUARDS ARE PROVIDED AND INSTALLED BY OTHERS WHEN NEEDED PER THE CURRENT IRC. 8. MINIMUM ROOM SIZE IS 70 SQ.FT. WITH A 7'-0" MIN. DIMENSION
- AND 1 ROOM AREA OF AT LEAST 120 SQ.FT. 9. LABELS SHALL BE LOCATED AS FOLLOWS: STATE INSIGNIA,

REVISIONS

- DATA PLATE, AND THIRD PARTY LABELS SHALL BE LOCATED ON THE WALL BELOW THE KITCHEN SINK. ADDITIONAL THIRD PARTY LABELS TO BE LOCATED IN SECONDARY BEDROOM CLOSET.
- 10. OPTIONAL FIREPLACES MAY BE ADDED, PROVIDING THEY MEET ALL REQUUIREMENTS OF IRC/MECHANICAL CODE AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 11. EXTERIOR DOORS MAY BE RELOCATED IN SAME ROOM TO DIFFERENT AREA
- 12. WINDOWS MAY BE REARRANGED OR A WINDOW MAY BE ADDED PER IECC 13. CLOTHS DRYER EXHAUST ON SITE BY OTHERS. 14. ALL EXHAUST AIR FROMRANGE HOODS AND BATHROOM VENTS SHALL BE
- VENTED TO THE EXTERIOR.
- 15. ATTIC ACCESS OPENING SHALL BEAR A MINIMUM DIMENSION OF 22" X 30" WITH A VERTICAL HEIGHT OF 30". (R807.1). THE ACCESS HOLE MUST BE INSULATED TO THE SAME R-VALUE AS REQUIRED FOR THE ROOF/CEILING CONSTRUCTION PER THE CURRENT IECO
- 16. ALL SOURCES OF POSSIBLE AIR INFILTRATION ARE REQUIRED TO BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED, OR OTHERWISE SEALED TO LIMIT AIR MOVEMENT
- 17. COSTRUCTION DOUMENTS TO BE KEPT ON JOB SITE

18. SMOKE-DEVELOPED INDEX. WALL AND CEILING FINISHES SHALL HAVE A SMOKE-DEVELOPED INDEX OF NOT GREATER THAN 450 CARBON MONOXIDE DETECTORS CO SHALL BE UL 2034 COMPLIANT

LOAD CALCULATION

RANGE CIRCU

2580 SF x 3 Watts / 1000 APPL. CIRCUITS

LAUNDRY CIRCUIT
WATER HEATER CIF

RANGE HOOD VENT FAN

KITCHEN	>	100
MBA	$\bigg\rangle$	50
BATH 2	\bigvee	50
BATH 3	$\bigg\rangle \bigg\rangle$	50

LIPPERT HERITAGE VINLY G7						
DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC.
30 X 40	5.64	2.69	8.33	66 SF	.29	.21
30 X 40 (FIXED)	5.64	N/A	8.33	66 SF	.29	.21
36 X 40	6.80	3.24	10	81 SF	.29	.21
48 X 40	7.96	3.94	13.3	98 SF	.29	.21
24 X 72	8.09	3.95	12	98.5 SF	.29	.21
36 X 72	13.49	7.14	18	164 SF	.29	.21
48 X 72	16.18	7.9	24	197 SF	.29	.21
12 X 36 (TRANSOM)	1.28	N/A	3	N/A	.29	.21
12 X 30 (TRANSOM)	1.00	N/A	2.5	N/A	.29	.21
12 X 60 (TRANSOM)	2.25	N/A	5	N/A	.29	.21

l		DP-RATING				
DOOR LIGHT & VENT CHART ALL EXTERIOR DOOR W/GLASS REQUIRED SAFETY GLAZE SG (SAFTY GLAZE)					EXP-B	47.2
ALL EXTERIOR DOOR W/GLASS REQU	EXP-C	50.0				
DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC.
* 3680 (STORM w/OPEN SLIDER)	11.9	5.7	21.10	142 SF		
3680 (6 PANEL)	N/A	N/A	21.10		.16	.00
3680 (9 LITE & ROUNDTOP)	5.50	N/A	21.10		.27	.17
3680 (15 LITE)	9.78	N/A	21.10		.31	.24
3680 (3/4 OVAL)	3.78	N/A	21.10		.24	.16
3680 (FULL OVAL)	7.78	N/A	21.10		.30	.27
3680 (STORM)	17.18	N/A	21.10		N/A	N/A
13 X 80 (FULL or 1/2 SIDELITE)	4.00/2.00	N/A	7.50	N/A	N/A	N/A
75 x 80 (ATRUIM DOOR) w/SCREEN	19.60	20.0	43.11	245 SF	.35	.30
72 X 80 (SGD) W/SCREEN	32.61	15.49	39.08	387 SF	.31	.27
106 X 80 (3 PANEL SGD) W/SCREEN	59.93	24.54	58.88	N/A	.27	.21
120 X 80 (4 PANEL SGD) W/SCREEN	39.75	15.84	66.66	N/A	.27	.21

PPROVED BY

DD DATING

ELECTRIC CIRCUIT SCHEDULE

"GFI CIRCUIT PROTECTION "" PER MANUFACTURERS RECOMENDATIONAPPLIANCE DEMAND PLUS 125% CONTINUOUS ANDIOR MOTOR LOAD FACTOR
KITCHEN, DISWAHSER, FREEZER & WASHER, CIRCUITS MUST BE GFI & ARC FAULT PROTECTED
ALL OTHER NEC CODES CIRCUITS 15A & 20A MUST BE ARC FAULT PROTECTED
ALL CIRCUITS 125V, 15A & 20A MUST BE TAMPER -RESISTANT. s _ _ SWITCH LEG CL) LISTED AND APPROVED FOR OVER TUB

CIR.		AMPS		WIRE	CIR.	1	AMPS		WIRE	⊢
NO.	PURPOSE	(POLES)	VOLTS	SIZE	NO.	PURPOSE	(POLES)	VOLTS	SIZE	≠
1	SMALL APPLIANCES	20 (1)	120	12	20	LAUNDRY (WASHER)	20 (1)	120	12	г
2	BATHS	20 (1)	120	12	21	DRYER	30 (2)	240	10	⊢
3	SMALL APPLIANCES	20 (1)	120	12	22	SMOKE DETECTORS	15 (1)	120	14	Ľ
4	SMALL APPLIANCES	20 (1)	120	12	23	WATER HEATER	25 (2)	240	10] ₹
5	OPT. DISHWASHER	20 (1)	120	12	24	EXTRA FURNACE	****	****	****	1
6	GENERAL PURPOSE	20 (1)	120	12	25	GENERAL PURPOSE	20 (1)	120	12	
7	WATER HEATER	25 (2)	240	10	26	GENERAL PURPOSE	20 (1)	120	12	F
8	GENERAL PURPOSE	20 (1)	120	12	27	GENERAL PURPOSE	20 (1)	120	12	ľ
9	MICROWAVE	20 (1)	120	12	28	GENERAL PURPOSE	20 (1)	120	12	I€
10	GENERAL PURPOSE	20 (1)	120	12	29	GENERAL PURPOSE	20 (1)	120	12	7
11	FURNACE	****	****	****	30	GENERAL PURPOSE	20 (1)	120	12	H
12	GENERAL PURPOSE	20 (1)	120	12	31	EXTERIOR RECEPT.	20 (1)	120	12	
13	OPT. UTILITY	20 (1)	120	12	32	EXTRA	20 (1)	120	12	7
14	RANGE/COOKTOP	40 (2)	240	8	33	EXTRA	20 (1)	120	12	E
15	WALL OVEN	40 (2)	240	8	34	EXTRA	20 (1)	120	12	4
16	GENERAL PURPOSE	20 (1)	120	12	35	EXTRA	20 (1)	120	12	s
17	UTILITY	20 (1)	120	12	36	EXTRA	20 (1)	120	12	\mathcal{L}^{s}
18	GENERAL PURPOSE	20 (1)	120	12	37	EXTRA	20 (1)	120	12	1
19	GENERAL PURPOSE	20 (1)	120	12	38	SMALL APPLIANCES	20 (1)	120	12]

1) RECEPT REO'D IN HALLWAYS OVER 10' MIN. IN LENGTH.

- 2) ALL ELECTRICAL WIRING TO BE IN COMPLIANCE WITH N.E.C. PER STATE REQUIREMENT
- 3) TWO EXTERIOR G.F.I./WP RECEPTS REQUIRED. ONE LOCATED ON THE FRONT OF THE HOME, AND ONE LOCATED ON THE REAR OF THE HOME
- 4) ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT, SINGLE PHASE 15-20 amp OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AFCI LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.
- 5) KITCHEN COUNTERTOP SWITCHES AND RECEPTS ARE TO BE DIRECTLY ABOVE OR WITHIN 12" OF COUNTERTOP.
- 6) ALL BOX SIZING IN COMPLIANCE WITH N.E.C. PER STATE REQUIREMENT.
 7) SMOKE DETECTORS SHALL BE INSTALLED OUTSIDE OF EACH SEPERATE SLEEPING AREA AND MUST BE INSTALLED IN EACH BEDROOM. AT LEAST ONE (1) SMOKE DETECTOR MUST BE INSTALLED ON EACH LEVEL, INCLUDING BASEMENTS. ALL SMOKE DETECTORS WITHIN A DWELLING (4) UNIT SHALL BE AC/DC AND INTERCONNECTED TO PROVIDE SIMULTANEOUS ACTIVATION, AND SHALL RECEIVE POWER FROM A BATTERY WHEN PRIMARY POWER INTERRUPTED.
- 8) ALL ELECTRICAL CONDUCTORS AND EQUIPMENT SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND IN COMBINATION WITH LISTING AND LABELING, CONDUCTORS AND EQUIPMENT SHALL BE SUITABLE FOR LOCATION AND USE.
- 9) IN MODELS WITHOUT UPSTAIR UTILITY AREA, APPLIANCES SUCH AS WATER HEATERS, WASHERS, AND DRYERS ARE LOCATED IN BASEMENT AND FIELD WIRED BY OTHERS.
- 10) WHEN PANEL BOX IS NOT LOCATED ON OR DIRECTLY ADJACENT TO EXTERIOR WALL OF HOME, A SERVICE DISCONNECT MUST BE INSTALLED ON SITE AT THE NEAREST POINT OF ENTRANCE OF SERVICE CONDUCTORS. THIS INFORMATION MUST OCCUR ON THE DATA PLATE OF HOMES WHERE SUCH CONDITIONS EXIST.
- 11) BUILDER/DEALER TO SUPPLY AND INSTALL ALL MATERIALS NOT PROVIDED BY MANUFACTURERS FOR COMPLETE ELECTRICAL HOOK-UP.
- 12) ALL RECEPTS IN BATHROOMS AND EXTERIOR OF HOME SHALL BE PROTECTED BY G.F.I.
- WHIRLPOOL TUBS ON A SEPERATE BREAKER AND GFI PROTECTED 13) ALL RECEPTS ABOVE COUNTERTOPS TO BE PROTECTED BY G.E.I.
- 14) ELECTRICAL SERVICE TO BE GROUNDED IN FIELD BY OTHERS AFTER CIRCUITS HAVE BEEN
- COMPLETED ACCORDING TO LOCAL REQUIREMENTS.

 15) NON-METALIC SHEATHED CABLE SHALL BE SECURED IN PLACE AT INTERVALS NOT
- EXCEEDING 4 1/2" AND WITHIN 12" FROM EVERY CABINET, BOX OR FITTING. 16) NON-METALIC SHEATHED CABLE PASSING THRU FRAMING MEMBER WITHIN 1 1/4" OF THE
- EDGE OF SUCH FRAMING MEMBER ARE PROTECTED WITH A 1/16" THICK STEEL BUSHING CABLE PASSING THRU NOTCHES ARE PROTECTED WITH 1/16" THICK STUD STEEL PLATES 17) SURFACE MOUNTED INCANDESCENT FIXTURES INSTALLED ON THE WALL ABOVE THE DOOR
- OR ON THE CEILING PROVIDED THER IS A MINIMUM CLEARANCE OF 12" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE AREA. NEC-410-8(d)(1)
- 18) ANY LIGHT LOCATED IN A WET LOCATION MUST BE OF THE ENCLOSED & GASKETED TYPE LISTED FOR WET LOCATIONS.
- 19) CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUT SIDE OF SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BERROOM IN DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES, (R315.1
- RECESSED LUMINARY LIGHTS, FAN MOTERS AND OTHER HEAT PRODUCING DEVICES SHALL HAVE COMBUSTIBLE INSULATION SPACED A MINIMUM OF 3" FROM HEAT SOURCE

FURNACE (WH) WATER HEATER

MANUFACTURERS SPECIFICATIONS

EXHAUST FAN & LIGHT EXHAUST FAN SA) SMOKE ALARM (SA) SMOKE ALARM MONOXIDI

1) SERVICE PANEL 200 AMP

LIGHT (FLUORESCENT)

SERVICE PANEL S SWITCH JB JUNCTION BOX

RECEPTACLE 20 AMP ➡ WEATHER PROOF RECEP A) NM CONNECTOR ■ RECEPTACLE 220 V LIGHT (INCANDESCENT) PROGRAMMABLE THERMOSTAT F) FAN GEXHAUST FAN

RECEPTACLE

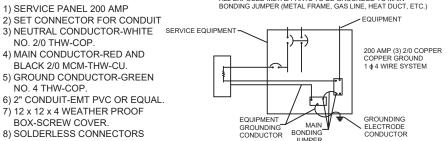
- 2) SET CONNECTOR FOR CONDUIT
- NO. 2/0 THW-COP. 4) MAIN CONDUCTOR-RED AND
- BLACK 2/0 MCM-THW-CU. 5) GROUND CONDUCTOR-GREEN
- NO. 4 THW-COP.
- 6) 2" CONDUIT-EMT PVC OR EQUAL. 7) 12 x 12 x 4 WEATHER PROOF
- BOX-SCREW COVER. 8) SOLDERLESS CONNECTORS
- 9) #4 GROUNDING ELECTRODE CONDUCTOR

SERVICE CONNECTION TO POWER SOURCE SHALL BE PROVIDED BY OTHERS.

MODULAR GROUNDING DETAIL 200 MAIN SERVICE ENTRANCE

Worst Case 30'-0" x 86'-0"

GROUNDING FOR GROUNDED SYSTEMS. SHOWING CONNECTION OF EQUIPMENT GROUNDING BUS TO THE ENCLOSURES AND THE GROUNDED CONDUCTOR. ALL EXPOSED METAL PARTS TO BE GROUNDED TO MAIN



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DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM

FEEDER ASSEMBLY DETAILS

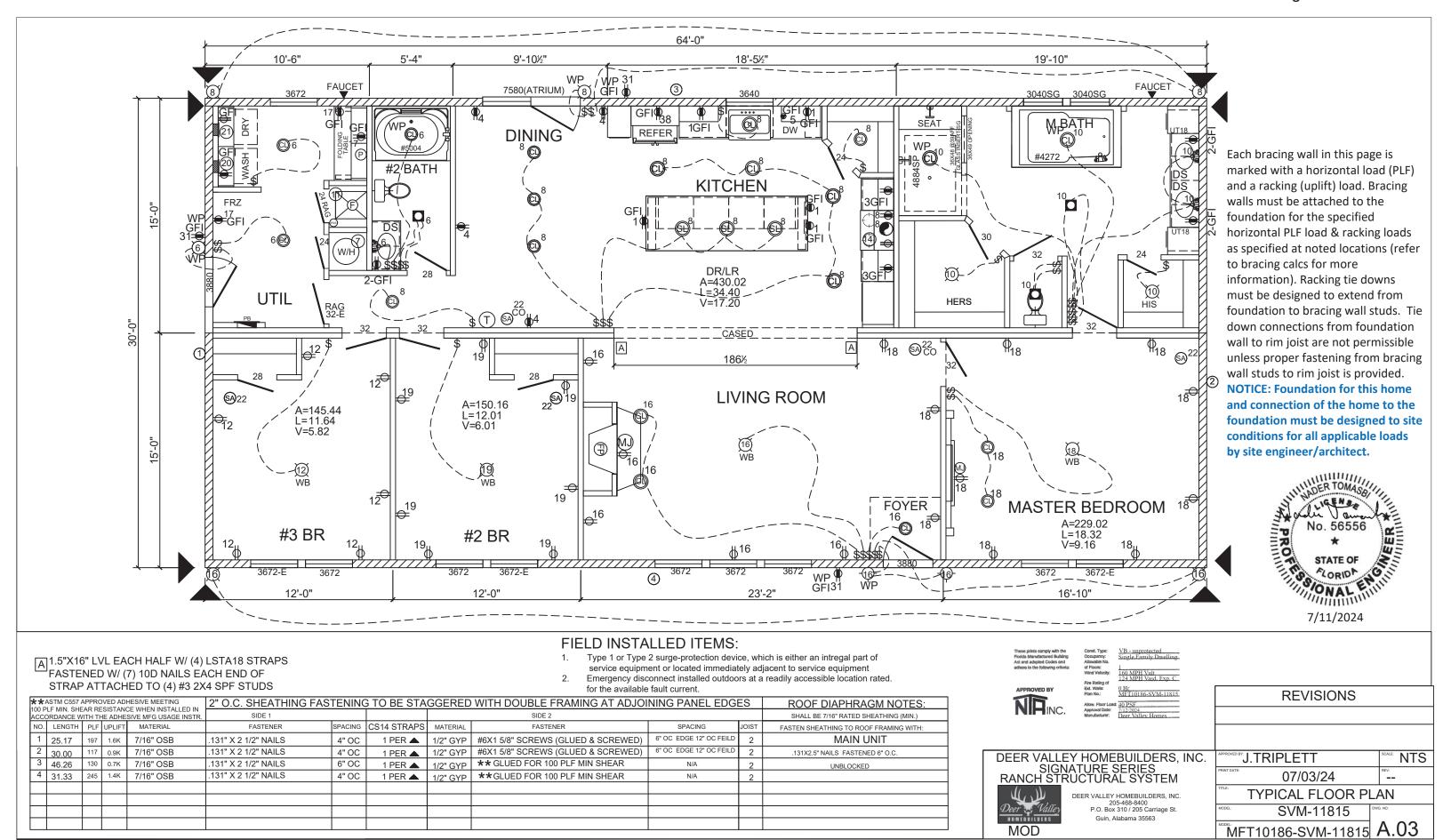
200 AMP UNDERGROUND

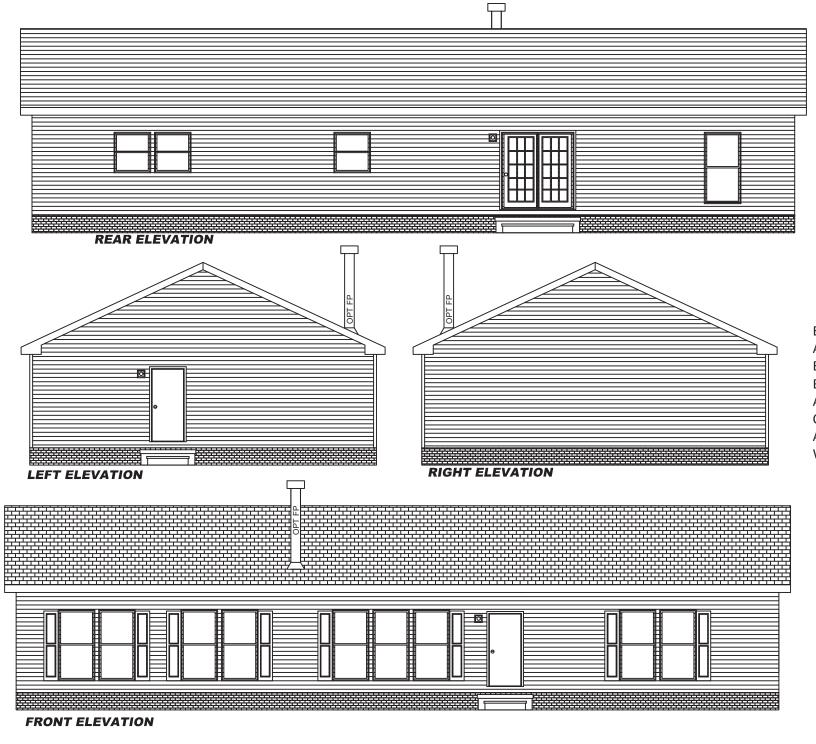
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DEER VALLEY HOMEBUILDERS, INC. P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563

J.TRIPLETT NTS 07/03/24 TYPICAL NOTES SVM-11815 MFT10186-SVM-11815 A.02





ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENEDED TO BE ALL INCLUSIVE, NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET.

REVISIONS

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No. 56556

- 1. ALL ITEMS ARE COMPLETED IN THE MANUFACTURING FACILITY UNLESS NOTED OTHERWISE.

 * 2. SIDING FOR ENDS IS SHIPPED LOOSE FOR ON SITE
- INSTALLATION BY OTHERS.
- * 3. HANDRAILS, STOOPS, STAIRS, GUTTERS, DOWNSPOUTS, STORM SHUTTERS OR REMOVABLE TYPE COVERINGS, AND SPLASH BLOCKS ARE FURNISHED AND INSTALLED BY OTHERS IN ACCORDANCE WITH STATE AND LOCAL CODES.
- 4. ALL ELEVATIONS ARE SHOWN WITH 2.16 TO 7/12 ROOF PITCH.
- 5. WINDOWS ARE SIZED PER WINDOW SCHEDULE AND VARY FROM FLOORPLAN TO FLOORPLAN.
- * 6. ALL FOUNDATION WORK IS COMPLETED ON SITE BY OTHERS.
- 7. ALL DRAIN, AND WASTE VENTS SHALL TERMINATE A MINIMUM OF 12" ABOVE THE ROOF LINE. 8. PATIO DOORS ARE AVAILABLE PER FLOOR PLAN.
- 9. SIDING SHOWN IS 4", OTHER SIZES ARE AVAILABLE.

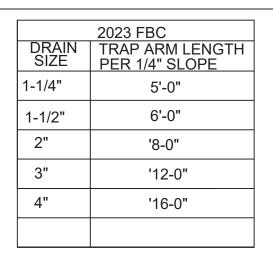
- 10. SHUTTERS ARE STANDARD ON THE FRONT AND RIGHT SIDE OF THE HOME, AND MAY BE OPTIONED FOR THE REAR AND LEFT SIDE.
- 11. TERMINATION HEIGHT OF METAL CHIMNEYS SHALL BE A MIN. 3'-0" ABOVE THE HIGHEST POINT WHERE THEY PASS THRU THE ROOF AND A MINIMUM OF 2'-0" HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10'-0". THE CHIMNEY IS TO BE SITE INSTALLED.
- 12. ATTIC ROOF SPACE VENTILATION SHALL BE 1/300 OF ROOF AREA WITH UPPER HALF PROVIDING MIN.50%-MAX 80% OF THE VENTILATION. 1/300 OF ATTIC AREA. 1/150 AT ROOF VENTS.
- 13. ROOF COVERING (SHINGLES) SHALL MEET THE REQUIREMENTS OF ASTM D 3161.

- 14. Crawlspace Access min. 18" x 24" location may vary.
- 15. Minimum crawlspace ventilation required must be 1/150 of crawlspace and within 3' of each corner and must meet all local code requirements. Access min. 18" x 24".
- * ITEMS INSTALLED ON SITE BY OTHERS For future garage siding to be removed and the garage shall be completely separated from the adjacent interior spaces and attic by means of 5/8" gypsum board or equiv. applied to the garage by owner.
- * A 1 3/8" steel door W/A 20 min. fire rating shall be used between garage and residence. The sills for these doors shall be raised not more than 4" above the garage door.

DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM

DEER VALLEY HOMEBUILDERS, INC. 205-468-8400 P.O. Box 310 / 205 Carriage St. Guin. Alabama 35563

J.TRIPLETT NTS 07/03/24 **EXTERIOR ELEVATIONS** SVM-11815 A.05 MFT10186-SVM-11815



NOTES:

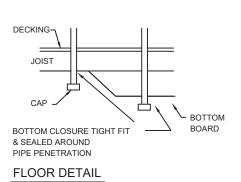
- ($\mathsf{A})$ = INLET WITH CAP & CHAIN.
- (B)= 3/4 RELIEF DRAIN THRU FLOOR.

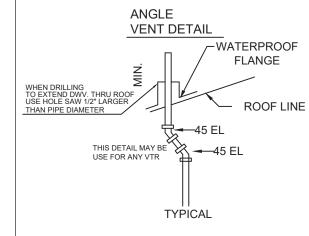
ALL WATER LINES 1/2" UNLESS OTHERWISE SHOWN.

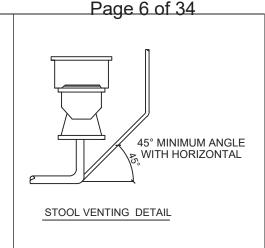
PIPING SUPPORT					
HOT & COLD FLEXIBLE	MAX. SPACING HORZ.&VERT.				
3/4" & 1"	2'-8"				

* WATER DISTRIBUTION PIPE PEX WATER LINES AND FITTINGS (OPT. COPPER WATER LINES TYPE M)

7/11/2024







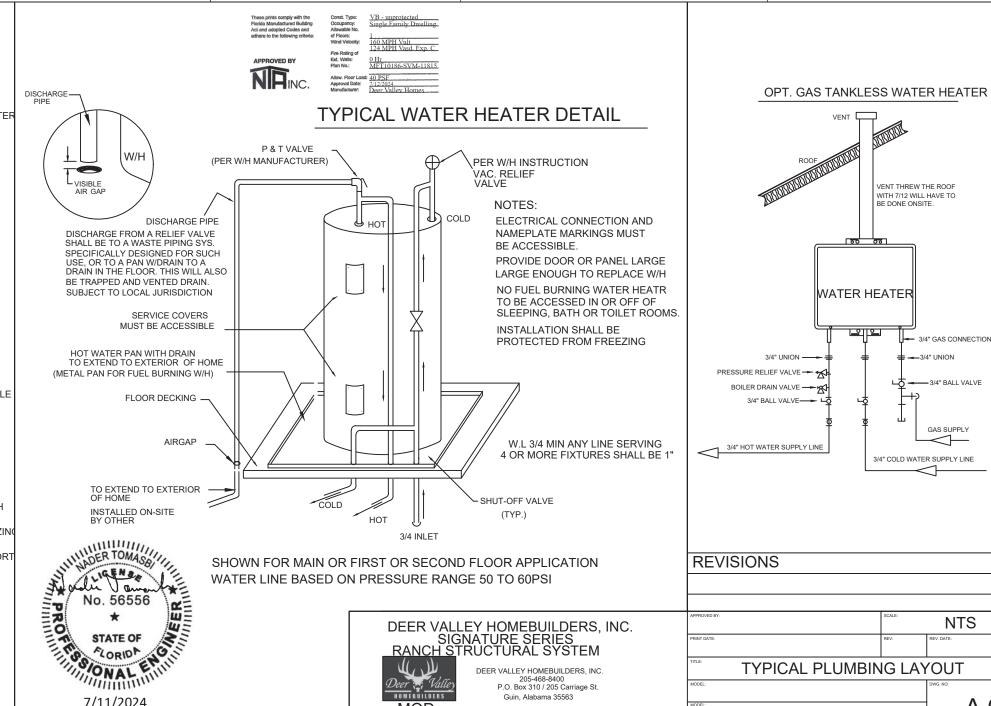
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MFT10186-SVM-11815

< SPECIFY IF NOTE APPLIES TO MANUFACTURER

NOTE:

- MAXIMUM FLOW RATE TO BE 2.2 GPM FOR FAUCETS @60 PSI AND 2.5 GPM FOR SHOWERS @ 80 PSI. 1)
- 2) DRAINWASTE AND VENT LINES PVC SHALL MEET ASTM D2665-89a REQUIREMENTS.
- 3) WATER DISTRIBUTION SYSTEM PIPING MAY BE POLYBUTYLENE, CPVC, COPPER, GALV. STEEL OR PEX
- DRAIN LINE SLOPE TO BE 1/4" MIN./FT.
- VACUUM BREAKS TO BE INSTALLED ON HOSE BIBBS, AND FROST FREE SILLOCKS 5)
- 6) AN ADEQUATELY RATED PRESSURE AND TEMPERATURE RELIEF VALVE IS TO BE PROVIDED FOR WATER HEATER
- 7) FOR EACH DWELLING, MIN (1) 3" MAIN VENT UNDIMINISHED IN SIZE THRU ROOF
- ALL VENT STACKS LESS THAN 3" I.D. WHICH PASS THROUGH ROOF SHALL INCREASE TO 3' I.D. AT A POINT 12" MIN. BELOW ROOF LINE AND EXTEND TO A POINT 12" MIN. ABOVE ROOF LINE. 3" I.D. CONTINUOUS STACKS SHALL TERMINATE 12" MIN. ABOVE ROOF LINE IN FROST PRONE AREAS.
- TUBS MAY NOT BE WET VENTED DOWNSTREAM OF WATER CLOSET.
- HEIGHT OF WATERPROOFING IN TUB AND SHOWER SPACE 6-0 MIN. ABOVE FLOOR
- PLASTIC PIPE SHALL BE SUPPORTED EVERY 4-0 HORIZONTALLY AND VERTICALLY
- BATH TUBS AND SHOWERS ARE LISTED BY AN APPROVED AGENCY
- MODELS WITH BASEMENTS MAY LOCATE WASHER IN BASEMENT TO BE CONNECTED ON SITE BY OTHERS.
- 14) HORIZONTAL TO VERTICAL CONNECTION TO BE WITH SANITARY TEES
- HORIZONTAL TO HORIZONTAL AND VERTICAL TO HORIZONTAL CONNECTIONS TO BE MADE WITH LONG TURN OR TEE WYE FITTINGS
- 16) PRESSURE TEMPERATURE RELIEF VALVE SHALL PIPE TO A VISIBLE AIR GAP AT FLOOR IN THE SAME SPACE AS WATER HEATER. WHEN WATER HEATER IS ON FIRST OR SECOND FLOOR A PAN SHALL BE PROVIDED & ITS DRAIN SHALL PIPE BELOW FIRST FLOOR. DRAIN SHALL PIPE & DISCHARGE INDIRECTLY TO A HAZARD FREE POINT
- MAX. DISTANCE OF FIXTURE TRAP TO VENT 1 1/2 IS 3-6. 2" IS 5-0. 3" IS 6-0
- AIR ADMITTANCE VALVES ARE PERMITTED WHEN INSTALLED ACCORDING TO THEIR LISTING. LA, KY, IL, DOESN'T ALLOW AIR ADMITTANCE
- ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF SIX (6) INCHES ABOVE THE FLOOD LEVEL OF THE HIGHEST FIXTURE SERVED IN THAT BRANCH.
- FIXTURES HAVING CONCEALED CONNECTIONS SHALL BE ARRANGED TO MAKE THE CONNECTIONS ACCESSIBLE FOR INSPECTION AND REPAIR.
- 21) ALL PLUMBING SHALL BE TESTED IN PLANT AND NO PLUMBING SHALL BE COVERED OR CONCEALED BEFORE BEING TESTED
- 22) WATER CLOSET SHALL BE 1.6 GALLONS PER FLUSH (MAXIMUM)
- 23) PLASTIC PIPING SHALL BE PROTECTED WITH A STEEL PLATE (18 GA. MIN.) WHEN PIPE PASSES THROUGH WOOD MEMBERS LESS THAN 1-1/4 INCH FROM THE EDGE OF MEMBERS.
- ANTI-SCALD DEVICES REQUIRED ON ALL TUB/SHOWER DIVERTERS.
- (DELTA #R1300-IP-TP, ASME A112.18.1M, ASSE 1016) PIPING SHALL BE FIRE STOPPED WHERE REQUIRED WITH MATERIALS EQUIVALENT TO CONSTRUCTION WHICH
- IT PENETRATES AND BE SUITABLE TO PIPE MATERIAL 26) CONCEALED PIPING IN UNHEATED AREAS INCLUDING OUTSIDE WALLS SHALL BE PROTECTED AGAINST FREEZIN IN PLANT
- 27) IN-PLANT FIXTURE DRAINS AND ALL OPEN PIPE SHALL BE PROTECTED (CAPPED) AND LABELED FOR TRANSPORT
- 28) JOIST NOTCHES SHALL NOT EXCEED 1/6 OF JOIST DEPTH AND SHALL NOT OCCUR IN MIDDLE 1/3 OF SPAN HOLES SHALL NOT EXCEED 1/3 DEPTH OF JOIST AND MUST OCCUR 2" FROM EITHER EDGE
- < 29) SHUT OFF VALVES ON ALL FIXTURES (OPTIONAL)
- < 30) ALL PLUMBING IS TYPICALLY INSTALLED FOR EACH MODULE AT THE TIME OF MANUFACTURE. CERTAIN CICJ/RCUMSTANCES MAY NECESSITATE SOME FIXTURE DRAINS TO BE STUBBED THROUGH FLOOR IN WHICH CASE HOOK-UP AND MATERIALS ARE PROVIDED ON SITE BY OTHERS. FLOOR SYSTEMS WHICH DO NOT ALLOW FOR PLANT INSTALLED PLUMBING, ARE MANUFACTURED WITH ALL PLUMBING RISERS STUBBED THROUGH FLOOR IN WHICH CASE ALL MATERIALS FOR COMPLETION AND INSTALLATION ARE PROVIDED ON SITE BY OTHERS. NOTE: STUB-THROUGH PLUMBING IS AVAILABLE ON ALL FLOOR SYSTEMS.
- < 31) WATER HEATER IN BASEMENT TO BE FIELD INSTALLED BY OTHERS
- < 32) A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK CLOSING VALVE. ACCESS SHALL BE PROVIDED TO THE WATER HAMMER ARRESTORS.



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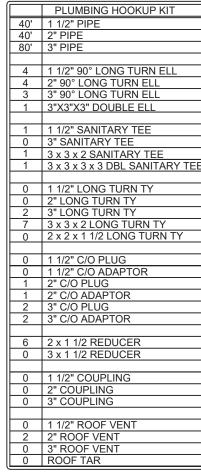
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(Roof Vent)

ON SITE BY OTHERS

0

Stool



SINK (Roof Vent) (Roof Vent) 0 Tub Wash M 2"PTRAP

STATE OF STORIDA LIGHTING ON AL LIGH

A.6.1

NOTES:

- 1) DOTTED LINES REPRESENT SITE INSTALLED PLUMBING.
- 2) ALL FITTINGS AND PIPE NECESSARY FOR PROPER CONNECTION OF THE DWV SYSTEM ARE INCLUDED IN THIS KIT. ANY VARIATION FROM THIS DESIGN RESULTING IN A SHORTAGE OF MATERIAL SHALL BE THE INSTALLER'S RESPONSIBILITY.
- 3) ALL PIPING MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 4'-0".
- 4) DRAIN PIPES MUST HAVE A MIN. SLOPE OF 1/4" PER FOOT (1/8" PER FOOT WITH CLEAN-OUT).
- 5) AIR GAPS ARE REQUIRED FOR ALL DISHWASHERS.
- 6) AIR ADMITTANCE VALVES ARE NOT REQUIRED IN ILLINOIS.
- 7) ANY PLUMBING ON THE HINGED ROOF AREA WILL HAVE TO BE EXTENDED THROUGH THE ROOF ON- SITE BY OTHERS

- 1) FITTING SIZES CORRESPOND TO ADJACENT PIPE SIZES. 2) DARK (THICK) LINES REPRESENT 2" PIPE; ALL OTHER TO BE 1 1/2" PIPÉ UNLESS OTHERWISE NOTED.
- 3) P-TRAP DIRECTIONS MAY VARY.
- 4) DOTTED LINES REPRESENT SITE INSTALLED PLUMBING.
- 5) KENTUCKY METAL WATER LINE FITTINGS REQ. @ CONCEALED FAUCETS
- 6) ILLINOIS WATER LINES TO BE WRAPPED W/R-3 INSULATION

)	
DWV FITTING LEGEND					
90° LONG TURN ELL	Α	В	45° ST. ELL		
DOUBLE ELL	С	D	90° CLOSET ST. ELL		
90° LONG TURN ST. ELL	Е	F	SANITARY TEE		
DOUBLE SANITARY TEE	G	Н	LONG TURN TY		_
45° Y	Ι	J	CAP & CHAIN		
MECHANICAL VENT	K	L	CLEAN OUT PLUG		
P-TRAP	М	N	REDUCER BUSHING		
COUPLING	0	Р			
				,	

REVISIONS

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DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM

MOD

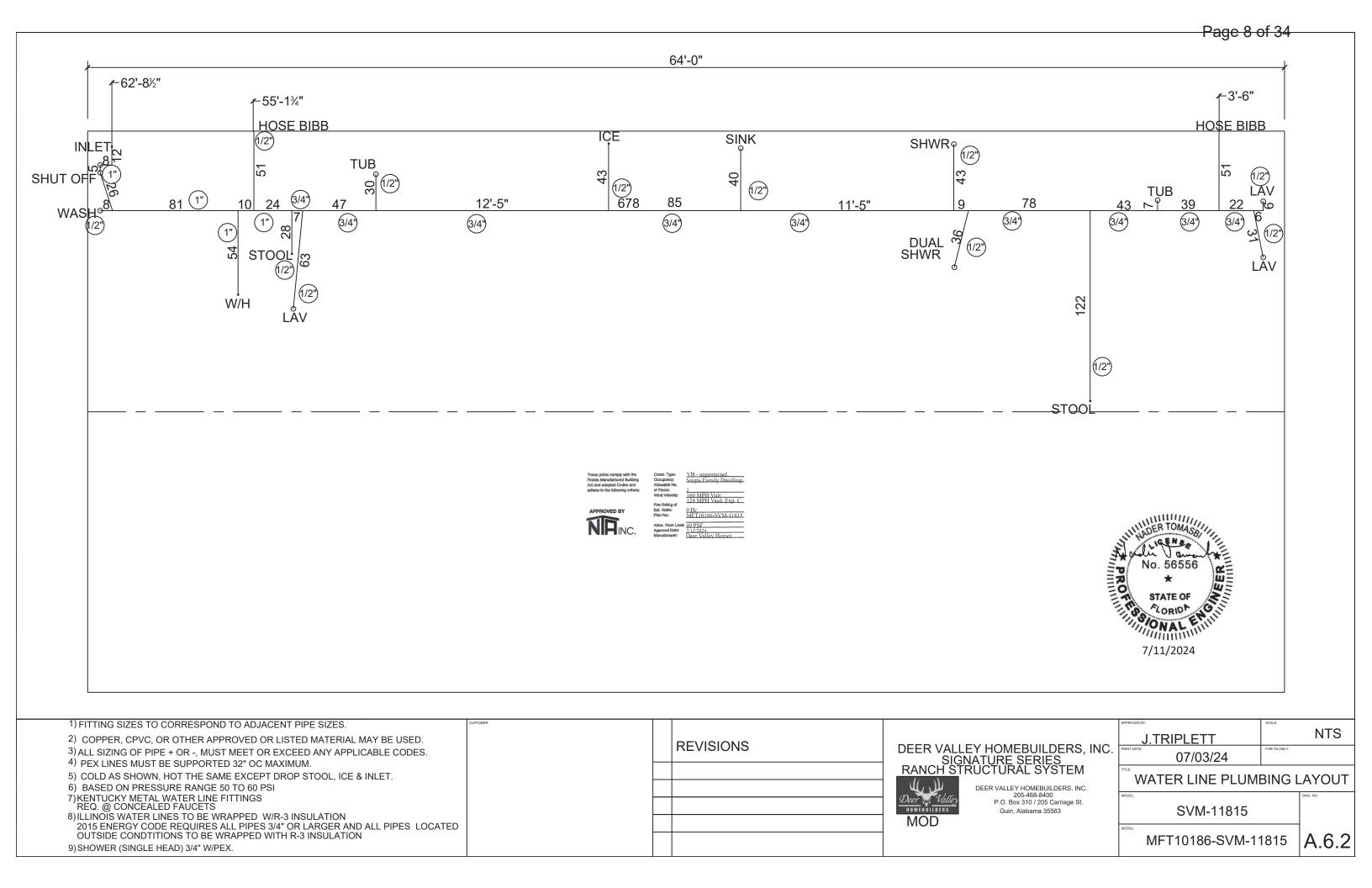
(Roof Vent)

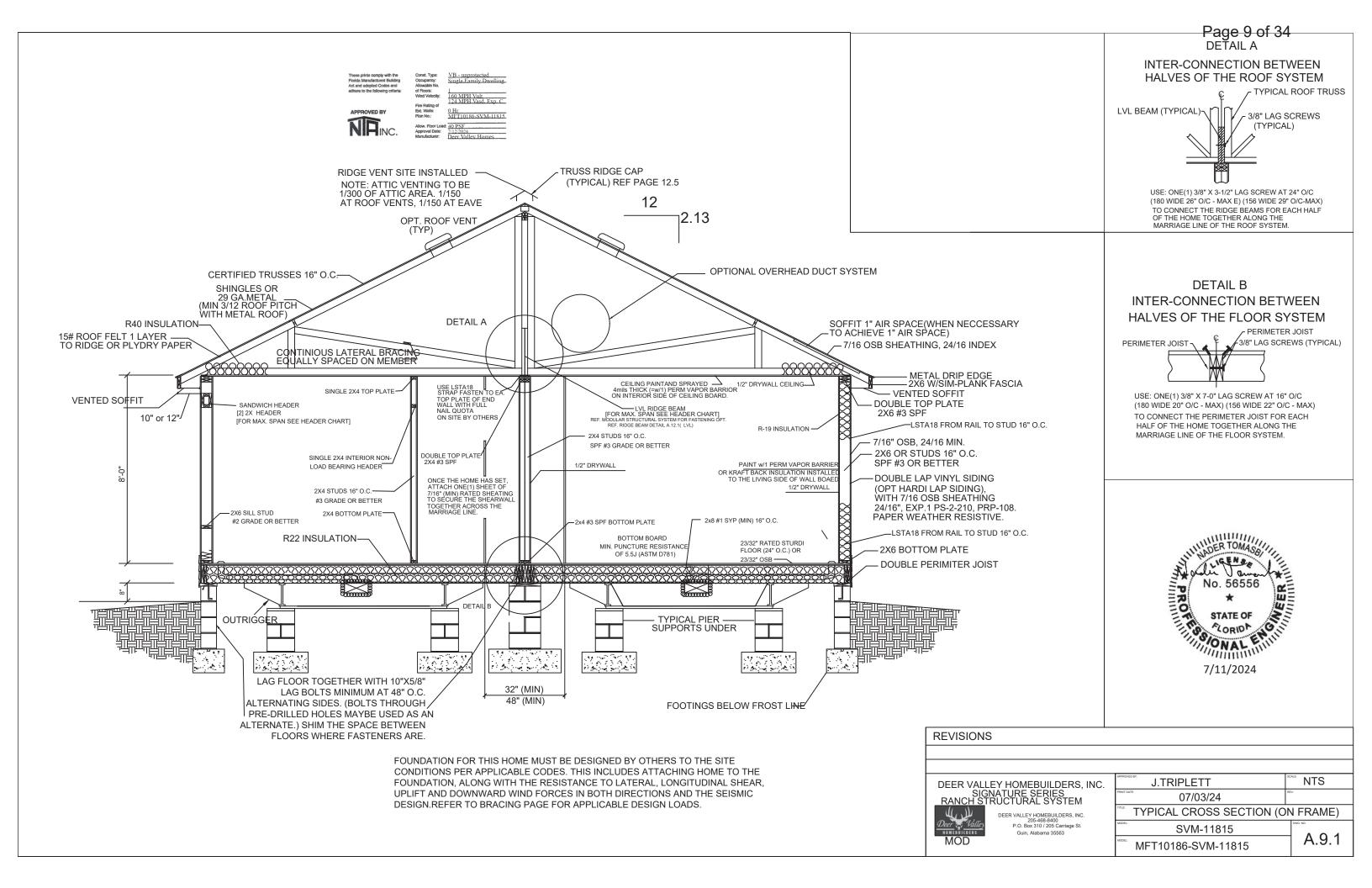
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DEER VALLEY HOMEBUILDERS, INC. 205-468-8400 P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563

APPROVED BY:		SCALE:
	J.TRIPLETT	NTS
PRINT DATE:	07/03/24	REV. DATE:
TITLE:	DRAIN LINE PLUMBING	G LAYOUT
MODEL:	SVM-11815	DWG. NO:

MFT10186-SVM-11815



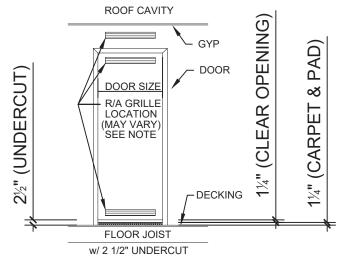




5" = 70 CFM 10" = 420 CFM 6" = 110 CFM 12" = 700 CFM 7" = 170 CFM 14" = 1000 CFM 8" = 240 CFM 16" = 1400 CFM 9" = 320 CFM

REGISTER SIZE

5 = 8x4 6 = 10x6 7 = 12x6 8 = 12x 8



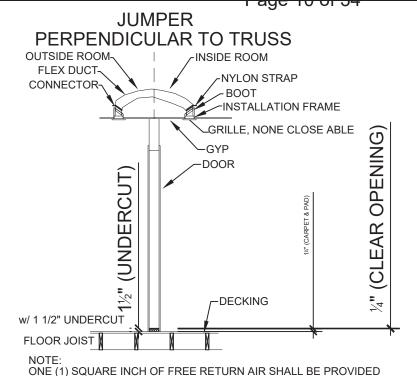
NOTE:

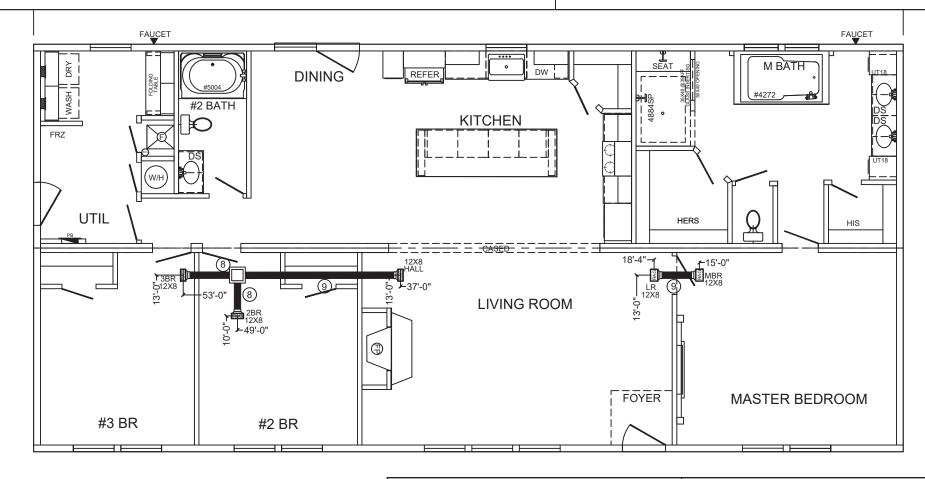
WHEN MAXIMUM ROOM SIZE HAS EXCEDDED THE FREE RETURN AIR PROVIDED BY THE DOOR'S UNDERCUT AREA, ONE OF THE FOLLOWING SHALL BE INSTALLED TO PROVIDE ADDITIONAL FREE RETURN AIR.

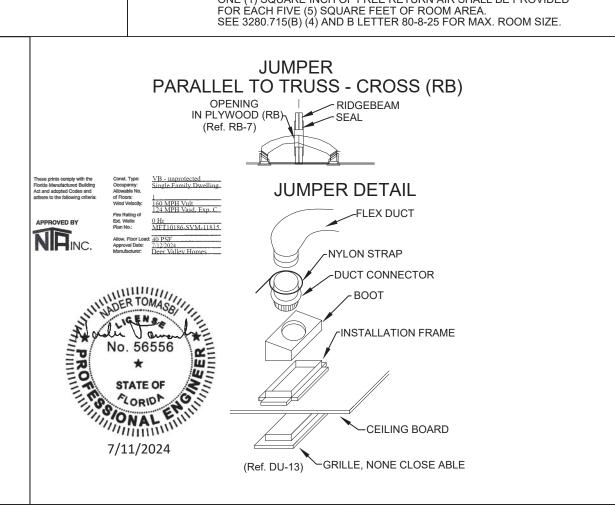
1. LOUVERED GRILLE MAY BE INSTALLED IN THE DOOR.

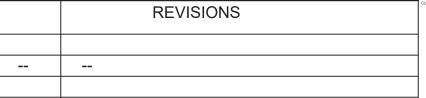
OR IN THE HEADER ABOVE THE DOOR.

2. FLEX DUCT JUMPER / GRILLE MAY BE INSTALLED IN THE CEILING EA. SIDE OF ROOM (INTERIOR / EXTERIOR)
GRILLE SHALL NOT BE CLOSE ABLE.











DEER VALLEY HOMEBUILDERS, INC.
SIGNATURE SERIES
RANCH STRUCTURAL SYSTEM

DEER VALLEY HOMEBUILDERS, INC.
205-468-8400
P.O. Box 310 / 205 Carriage St.
Guin, Alabama 35563



Manual S Compliance Report Entire House

AMS of Indiana, Inc.

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

AMS of Indiana, Inc.

Project Information

Deer Valley Homebuilders For: SVM-11815(DVHBSS-6808)

Cooling Equipment

Design Conditions

Outdoor design DB:	97.9°F	Sensible gain:	23760	Btuh
Outdoor design WB:	79.1°F	Latent gain:	6152	Btuh
Indoor design DB:	75.0°F	Total gain:	29912	Btuh
Indoor RH:	50%	Estimated airflow:	1020	cfm

Entering coil DB:

Entering coil WB:

76.0°F

63.3°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Split AC

Manufacturer: Model: SEER2 14.3 Generic

Actual airflow: 1020 cfm

Sensible capacity: 103% of load 24575 Btuh Latent capacity: 171% of load 10532 Btuh

Total capacity: 35107 Btuh 117% of load SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB: 23.3°F Heat loss: 26452 Btuh Entering coil DB: 68.1°F Indoor design DB: 70.0°F

Manufacturer's Performance Data at Actual Design Conditions

Equipment type: Elec furnace

Manufacturer: **NORDYNE** Model: E7E()-010 1020 Actual airflow:

cfm

35000 **Btuh** 132% of load Output capacity:

0°F Temp. rise:

Jan No. 56556 STATE OF minn 7/11/2024

Meets all requirements of ACCA Manual S.



Load Short Form Entire House AMS of Indiana, Inc.

Date: 6/11/24

AMS of Indiana. Inc.

PROTING William I NADER TOMAS No. 56556 STATE OF 7/11/2024

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

Project Information

For: Deer Valley Homebuilders SVM-11815(DVHBSS-6808)

Design Information Htg Clg Infiltration Outside db (°F) 23 98 Method Simplified 70 Inside db (°F) 75 Construction quality Average 23 Design TD (°F) 47 Fireplaces 1 (Average) Daily range M Inside humidity (%) 30 50 Moisture difference (gr/lb) 19 56

HEATING EQUIPMENT

COOLING EQUIPMENT

Make Trade	NORDYNE			Make Trade	Generic		
Model	E7E()-010			Cond	SEER2 14.3		
AHRI ref				Coil			
				AHRI ref			
Efficiency		100 AFUE		Efficiency	12.2 EER2,14.	3 SEER2	
Heating inpu	ut	10.0	kW	Sensible co	oling	24575	Btuh
Heating outp	out	35000	Btuh	Latent coolir	ng	10532	Btuh
Temperature	e rise	31	°F	Total cooling	g	35107	Btuh
Actual air flo	W	1020	cfm	Actual air flo	DW	1020	cfm
Air flow facto	or	0.042	cfm/Btuh	Air flow facto	or	0.045	cfm/Btuh
Static pressu	ıre	0.30	in H2O	Static pressu	ure	0.30	in H2O
Space therm	nostat			Load sensib	ole heat ratio	0.79	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
U	143	2885	1892	121	85
BA2	62	637	325	27	15
KT	424	4355	4208	183	189
BA1	223	3598	2120	151	95
B1	251	3710	3737	155	168
LR	349	4044	4585	169	206
STUDY	180	2050	2763	86	124
B2	176	3048	3088	128	139
Н	31	0	0	0	0
HER	73	0	0	0	0

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



				<u>Page</u>	<u>13 of 34</u>
Entire House Other equip loads Equip. @ 1.03 RSM Latent cooling	1913	24327 2125	22718 1042 24449 6152	1020	1020
TOTALS	1913	26452	30601	1020	1020



onst, Type: ccupancy: lowable No.	VB - unprotected Single Family Dwa
Floors:	1
ind Velocity:	160 MPH Vult
e Rating of	124 MPH Vasd, Ex
t. Walls:	0 Hr
an No.:	MFT10186-SVM-1
ow. Floor Load:	40 PSF

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

Building Analysis Entire House AMS of Indiana, Inc. Page st.4-10. 15. 3. 4 HBSS-6808)

By: AMS of Indiana, Inc.

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

Project Information

For: Deer Valley Homebuilders SVM-11815(DVHBSS-6808)

Design Conditions								
Location: Gainesville, FL, US Elevation: 123 ft Latitude: 30°N Outdoor:	Heating	Cooling	Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 47 30 18.7	Cooling 75 23 50 56.1			
Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	23 - - 15.0	98 18 (M) 79 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 1 (Average)				

Heating

Glazing 13.5 2773 10 Doors 13.5 1153 4 Ceilings 1.2 2233 8	Component	Btuh/ft²	Btuh	% of load
Infiltration	Walls Glazing Doors Ceilings Floors Infiltration Ducts Piping Humidification Ventilation Adjustments	2.5 13.5 13.5 1.2 1.7	2773 1153 2233 3206 5979 5988 0 0 2125	11.3 10.5 4.4 8.4 12.1 22.6 22.6 0 0 8.0



Walls

Cooling

Component	Btuh/ft²	Btuh	% of load
Component Walls Glazing Doors Ceilings Floors Infiltration Ducts Ventilation Internal gains Blower	Btuh/ft² 1.4 32.7 10.3 1.5 0.8	Btuh 1690 6693 876 2819 1572 1279 5439 1042 2350 0	% of load 7.1 28.2 3.7 11.9 6.6 5.4 22.9 4.4 9.9 0
Adjustments Total		2 3760	100.0

Latent Cooling Load = 6152 Btuh Overall U-value = 0.053 Btuh/ft²-°F, Window / Floor Area = 10.7 %

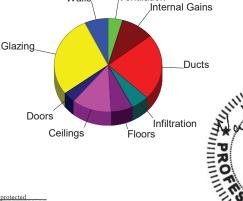
Data entries checked.

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

NRINC.

Corest, Types:

VB - unprotected
Single Family Dwelling.
Single Family Dwellin



Ventilation

7/11/2024

No. 56556 ★

STATE OF





Component Constructions *Entire House*

AMS of Indiana, Inc.

Date: 6/11/24

AMS of Indiana, Inc.

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

Project Information

For: Deer Valley Homebuilders SVM-11815(DVHBSS-6808)

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Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	23 - - 15.0	98 18 (M) 79 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 1 (Average)					

Construction descriptions	Or	Area	U-value Btuh/ft²-°F	Insul R	Htg HTM Btuh/ft²	Loss Btuh	Clg HTM Btuh/ft²	Gain Btuh
Walls			Burnt-1	it - 17Bturi	Diam	Dian	Diami	Dian
R19 - wall: Frm wall, vnl ext, 7/16" wood shth, r-19 cav ins, 1/2" gypsum	n	218	0.053	19.0	2.48	541	1.40	305
board int fnsh, 2"x6" wood fr	е	425	0.053	19.0	2.48	1053	1.40	594
	s	240	0.053	19.0	2.48	594	1.40	335
	W	326	0.053	19.0	2.48	808	1.40	456
	all	1210	0.053	19.0	2.48	2995	1.40	1690
Partitions (none)								
Windows								
HERITAGE 3672: HERITAGE 3672; 6.67 ft head ht	е	43	0.290	0	13.5	579	26.8	1145
	W	162	0.290	0	13.5	2194	26.8	4341
	all	205	0.290	0	13.5	2773	26.8	5486
Doors								
11P0: Door, mtl pur core type	n	22	0.290	10.5	13.5	292	10.3	222
	е	42	0.290	10.5	13.5	569	10.3	432
	W	22	0.290	10.5	13.5	292	10.3	222
	all	85	0.290	10.5	13.5	1153	10.3	876
Ceilings								
Attic ceiling, asphalt shingles roof mat, r-40 ceil ins, 1/2" gypsum board int fnsh		1913	0.025	40.0	1.17	2233	1.47	2819
Floors								
Flr floor, frm flr, 8" thkns, carpet flr fnsh, r-22 cav ins, tight crwl ovr		1913	0.045	22.0	1.68	3206	0.82	1572







Project Summary Entire House AMS of Indiana, Inc.

Page st/6-10415204HBSS-6808)

AMS of Indiana, Inc.

2936 Btuh

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

Notes:

Project Information

Deer Valley Homebuilders SVM-11815(DVHBSS-6808) For:

APPROVED BY



Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Summer Design Conditions

Outside db Inside db	23 °F 70 °F	Outside db Inside db	98 °F 75 °F
Design TD	47 °F	Design TD Daily range	23 °F M
		Relative humidity Moisture difference	50 % 56 gr/lb

Heating Summary

Sensible Cooling Equipment Load Sizing

Structure	18339	Btuh	Structure	17278 Btuh
Ducts (R-8.0)	5988	Btuh	Ducts (R-8.0)	5439 Btuh
Central vent (42 cfm)	2125	Btuh	Central vent (42 cfm)	1042 Btuh
Outside air É			Outside air	
Humidification	0	Btuh	Blower	0 Btuh
Piping	0	Btuh		
Piping Equipment load	26452	Btuh	Use manufacturer's data	n
• •			Rate/swing multiplier	1.03
I	nfiltration		Equipment sensible load	24449 Btuh

Simplified Construction quality

Latent Cooling Equipment Load Sizing Average 1 (Average) Structure

Ducts Central vent (42 cfm)	1638 1578	
Outside air Equipment latent load	6152	Btuh
Equipment Total Load (Sen+Lat) Reg. total capacity at 0.70 SHR	30601 2.9	Btuh ton

Cooling Equipment Summary

	Heating	Cooling
Area (ft²)	1913	1913
Volume (ft³)	15300	15300
Air changes/hour	0.46	0.20
Equiv. AVF (cfm)	117	51

Heating Equipment Summary

Make Trade	NORDYNE		Make Trade	Generic
Model AHRI ref	E7E()-010		Cond Coil	SEER2 14.3
-cc ·		400 45115	<u>AH</u> RI ref	40

AHRI ref		Coll		
Efficiency Heating input Heating output Temperature rise Actual air flow	100 AFUE 10.0 kW 35000 Btuh 31 °F 1020 cfm	AHRI ref Efficiency Sensible cooling Latent cooling Total cooling Actual air flow	1020	Btuh Btuh cfm
Air flow factor Static pressure Space thermostat	0.042 cfm/Btuh 0.30 in H2O	Air flow factor Static pressure Load sensible heat ratio	0.30	cfm/Btuh in H2O
opaco i iomicolat		Load concibio float falle	0.10	

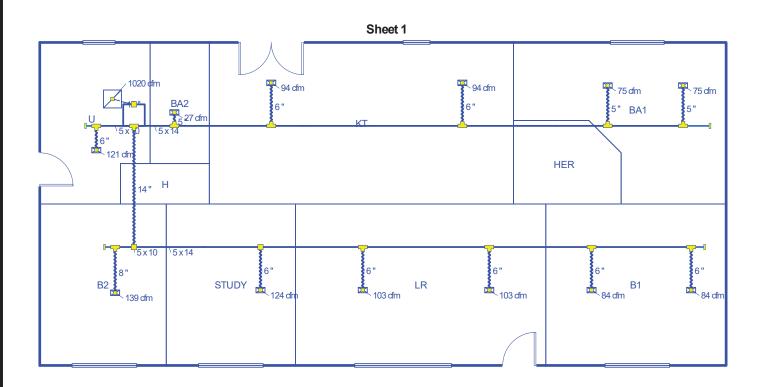
Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Method

Fireplaces







Const. Type: Occupancy: Allowable No.	VB - unprotected Single Family Dwellin
of Floors; Wind Velocity:	160 MPH Vult
Fire Rating of	124 MPH Vasd, Exp. C
Ext. Walls: Plan No.:	0 Hr MFT10186-SVM-1181
Allow. Floor Load:	40 PSF

Job #: SVM-11815(DVHBSS-6808) Performed by AMS of Indiana, Inc. for:

Deer Valley Homebuilders

SVM-11815(DVHBSS-6808)

AMS of Indiana, Inc.

3933 E. Jackson Blvd. Elkhart, IN 46516 Phone: 574-293-5526 eng-ams@comcast.net Scale: 1:107

Page 1 Right-Suite® Universal 2023 23.0.05 RSU02009 2024-Jul-10 15:33:32 ...1815(DVHBSS-6808)attic trunk.rup



Duct System Summary Entire House

AMS of Indiana, Inc.

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

Project Information

For: Deer Valley Homebuilders SVM-11815(DVHBSS-6808)



AMS of Indiana, Inc.

Date: 6/11/24

7/11/2024

External static pressure
Pressure losses
Available static pressure
Supply / return available pressure
Lowest friction rate
Actual air flow
Total effective length (TEL)

 Heating
 Cooling

 0.30 in H2O
 0.30 in H2O

 0.06 in H2O
 0.06 in H2O

 0.24 in H2O
 0.24 in H2O

 0.183 / 0.057 in H2O
 0.183 / 0.057 in H2O

 0.092 in/100ft
 0.092 in/100ft

 1020 cfm
 1020 cfm

260 ft

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	HxW (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
B1	С	1868	78	84	0.092	6.0	<i>0</i> × <i>0</i>	VIFx	57.8	140.0	st5
B1-A	С	1868	78	84	0.093	6.0	<i>0</i> × <i>0</i>	VIFx	67.0	130.0	st5
B2-A	С	3088	128	139	0.124	8.0	0x 0	VIFx	17.3	130.0	st4
BA1	h	1799	75	48	0.099	5.0	0x 0	VIFx	54.8	130.0	st2
BA1-A	h	1799	75	48	0.097	5.0	0x 0	VIFx	47.8	140.0	st2
BA2	h	637	27	15	0.108	5.0	0x 0	VIFx	5.0	165.0	st2
KT	С	2104	91	94	0.103	6.0	<i>0</i> × <i>0</i>	VIFx	16.8	160.0	st2
KT-A	С	2104	91	94	0.099	6.0	<i>0</i> × <i>0</i>	VIFx	34.5	150.0	st2
LR-B	С	2293	85	103	0.093	6.0	0x 0	VIFx	36.5	160.0	st5
LR-C	С	2293	85	103	0.092	6.0	0x 0	VIFx	48.3	150.0	st5
STUDY	С	2763	86	124	0.095	6.0	<i>0</i> × <i>0</i>	VIFx	27.0	165.0	st5
U	h	2885	121	85	0.135	6.0	<i>0</i> × <i>0</i>	VIFx	5.8	130.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	HxW (in)	Duct Material	Trunk
st2 st1 st4 st5 st3	Peak AVF Peak AVF Peak AVF Peak AVF Peak AVF	360 121 128 411 539	299 85 139 497 636	0.097 0.135 0.124 0.092 0.092	741 348 399 1023 595	10.5 6.6 6.3 14.0 14.0	14 x 5 10 x 5 10 x 5 14 x 5 0 x 0	ShtMetl ShtMetl ShtMetl ShtMetl VinIFIx	st3 st3

These prints comply with the 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 VB - unprotected Single Family Dwelling

160 MPH Vult 124 MPH Vasd, Exp. 0 Hr MFT10186-SVM-118

Bold/italic values have been manually overridden



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	1020	1020	62.1	0.092	647	17.0	0x	0		RtFg	



Static Pressure and Friction Rate *Entire House*

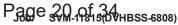
AMS of Indiana, Inc.

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

For:

Project Information

Deer Valley Homebuilders SVM-11815(DVHBSS-6808)



Date: 6/11/24

By: AMS of Indiana, Inc.



7/11/2024

	Available Static Pressure	
Estamal stations are	Heating (in H2O)	Cooling (in H2O)
External static pressure Pressure losses	0.30	0.30
Coil	0	0
Heat exchanger	0	0
Supply diffusers	0.03	0.03
Return grilles	0.03	0.03
Filter	0	0
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0.24	0.24

	iotai Effective Length	
	Supply (ft)	Return (ft)
Measured length of run-out	4	2
Measured length of trunk	44	0
Equivalent length of fittings		60
Total length Total effective length	198	62 260

	Friction Rate				
	Heating (in/100ft)		Cooling (in/100ft)		
Supply Ducts	0.092	OK	0.092	OK	
Return Ducts	0.092	OK	0.092	OK	

Fitting Equivalent Length Details

Supply 4AD=60, 2A2=55, 1A=35: TotalEL=150

Return 6M=20, 5D=40: TotalEL=60

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

NAPPROVED BY

Const, Type:
Occupancy:
Allowable No,
of Floors:
Wind Velocity:
Fire Rating of

VB - unprotected Single Family Dwelling

MFT10186-SVM-11815 and: 40 PSF 7/12/2024 Deer Valley Homes

FLORIDA ENERGY EFFI

Florida Department of Busine

SVM-11815 Project Name: 322 SW Moonlit Drive Street: City, State, Zip: Fort White, FL, 32038

Owner: Jean Murray

FOR BUILDING CONSTRUCTION

gulation - Residential Performance Method

ilder Name: Deer Valley Homebuilders

ermit Office: rmit Number:

urisdiction:

Design Location: FL, Gainesville 7	7/11/2024 unty:	Columbia(Florida Clima	ate Zone 2)
New construction or existing New (From 2. Single family or multiple family Number of units, if multiple family Number of Bedrooms	a. Frame - Wo b. N/A c. N/A d. N/A	od, Exterior R	nsulation Area R=19.0 1504.00 ft ²
 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 	Yes 11. Ceiling Type a. Single asser b. N/A c. N/A		nsulation Area R=40.0 1920.00 ft ²
7. Windows(209.3 sqft.) Description a. U-Factor: Dbl, U=0.29 2 SHGC: SHGC=0.21 b. U-Factor: N/A SHGC:	209.25 ft ² 13. Ducts, locat	Shingles, Vented) Dec ion & insulation level Ret: Attic, AH: Main	k R=0.0 1979 ft ² R ft ² 6 400
c. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC:	ft ² 14. Cooling Sys a. Central Unit 1.000 ft 0.210		kBtu/hr Efficiency 35.0 SEER2:14.30
8. Skylights Description U-Factor:(AVG) N/A SHGC(AVG): N/A	Area 15. Heating Sys N/A ft ² a. Electric Hea		kBtu/hr Efficiency 35.0 HSPF2:7.50
9. Floor Types a. Crawlspace b. N/A Products Markinsteure Building C. N/A architer to the following criteria: C. N/A architer to the following criteria: APPROVED BY APPROVED BY Allow Floor Loads Al	Area 920.00 ft ² ft ² ft ² b. Conservatio 17. Credits		Cap: 50 gallons EF: 0.920 None CF
Glass/Floor Area: 0.109 Total Pron	osed Modified Loads: 52.42		

No. 56556

STATE OF

Glass/Floor Area: 0.109

Total Proposed Modified Loads: 52.42

Total Baseline Loads: 56.81

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY:

DATE: <u>07</u>/03/24

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

OWNER/AGENT:

DATE:

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

BUILDING OFFICIAL: DATE:



- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.040 Qn for whole house.
- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

Page 22 of 34 INPUT SUMMARY CHECKLIST REPORT

					PROJE	СТ						
Owner Builder Builder Permit Jurisdi Family New/E	er Home ID: er Name: it Office: liction: y Type: Existing: Construct:	SVM-11815 User Jean Murray Deer Valley Homel Detached New (From Plans) Act and adopted Codes and adhere to the following criteri	Const. Type: VB - Imm g Occupancy: Single Fr Single For Vira Velocity: 124 MPI	Total Sto Worst Ca Rotate A Cross Ve	ned Area: ories: ase: ngle: entilation: ouse Fan:	3 1920 1 Yes 180 No No Suburban Suburban	Lot # Bloc Platt Stre Coul	k/SubDivisio Book: et:	Street Add	loonlit Driv	'e	
		APPROVED BY	Ext. Walls: 0 Hr Plan No.: MFT101 Allow. Floor Load: 40 PSF	86-SVM-11815	CLIMA	TE						
Desig Locat		MI INC.	Manufacturer: Deer Val	lev Homes	Desigr 97.5%	1 Temp 2.5%	Int Desig		Heating Degree Days	Desigr Moisture		ily temp nge
FL,	Gainesville	ı	FL_GAINESVILLE	_REGION	A 32	92	70	75	1305.5	51	Medi	um
					BLOC	KS						
√ Numb	ber	Name	Area	Vo	lume							
1		Block1	1920	15	360 cu ft							
					SPAC	ES						
Numb	ber	Name	Area	Volume	Kitchen	Occupants	s Bedi	rooms	Finished	Cool	led F	leated
1		Main	1920	15360	Yes	3	;	3	Yes	Ye	es	Yes
					FLOO	RS	(Total Ex	posed Ar	ea = 19	920 sq	.ft.)
/ #	Floor Type	е	Space	Expo Perin			·Value l m. Joist	U-Factor	Slab Insul. Vert/Horiz	Tile \	Wood	Carpet
1	Crawlspace		Main	20	0 1920	sqft 0	22	0.048		0.60	0.00	0.40
					ROC	F						
/ #	Туре		Materials			able Root Area Colo		Solar Absor.	SA Emit Tested	t Emitt Tested	Deck Insul.	Pitch (deg)
1	Gable or sh	ed C	Composition shing	les 19	79 ft² 24	Donffifnished, C	Galvalur i N	0.75	Yes 0.4	Yes	0	14.04
					ATTI	С						
/ #	Туре		Ventilatio	n	Vent Rat	io (1 in)	Area	RBS	IRCO	:		
1	No attic		Vented		30	0	1920 ft²	N	N			
					CEILI	NG	(Total Ex	posed Are	ea = 19	920 sq	.ft.)
/ #	Ceiling Ty	ре		Space	R-Valu	ie Ins. Ty	pe Are	ea U-Fa	actor Framin	g Frac.	Trus	s Type
					40.0	Blow		.0ft² 0.0		 11		ood '

INPUT SUMMARY CHECKLIST REPORT Page 23 of 34

									W	ALLS	3		(T	Γotal	Ехр	osed	Area	a = 1	504 sq	.ft.)
/	First o	Ad	rienta Ijacen To		elow is as enter Wall Type	ed. Ad	ctual orien Spa		C	ed by the Cavity R-Value	rotate Width Ft	1	e (180 de Heig Ft	ht	Area	U-	She	ath Fi	ection on rm. Solar rac. Abso	Below
1 3 4	2 S= 3 E=	=>E :>N :>W :>S	Exte	erior erior erior erior	Frame - Woo Frame - Woo Frame - Woo Frame - Woo	od od		Main Main Main Main		19.0 19.0 19.0 19.0	64.0 30.0 64.0 30.0	0	8.0 8.0 8.0 8.0	0 0 0	512.0 240.0 512.0 240.0	0.06	1 1	0.2 0.2 0.2 0.2	23 0.75 23 0.75	0 % 0 %
	DOORS (Total Exposed Area = 78 sq.ft.)																			
\ #	Ornt		Adja	acent 1	Го Door Туре	Э	Spa	ace		Stor	rms		U-Val	lue		/idth ⁻ t In		Height Ft In		ırea
1 3	2 E=	=>E :>W :>S	Е	xterior xterior xterior	Insulated Insulated Insulated	t	N	lain Iain Iain		No	one one one		0.2 0.3 0.2	35	3.00 6.00 3.00	0	6.0 6.0	00	6 39).5ft²).0ft²).5ft²
	WINDOWS (Total Exposed Area = 209 sq.ft.)																			
\/ #	Ornt	Wall ID		ame	Panes	NFI	RC U-Fac	tor SHG0	C Imp	o Storm	Total Area (ft²)			idth H (ft)	Height (ft)	Over Depth (ft)	hang- Sep. (ft)		ior Shade	Screen
2	W=> E=>\	W 3	3 V	inyl	Low-E Double Low-E Double Low-E Double		Y 0.29 Y 0.29 Y 0.29	0.21	Ν	N N N	162.0 18.0 29.3		1 3.		6.00 6.00 3.25	1.0 1.0 1.0	1.0 1.0 1.0	IEC	CC 2012 CC 2012 CC 2012	None None None
								INF	FIL.	TRAT	ΓΙΟΝ									
√#	Scop	ре		Met	hod		SLA	CFM50		ELA	Eql	LA	ACI	Н	ACH5	0 Spac	ce(s)	Infil	tration Te	st Volume
1	l WI	noleho	ouse	Propo	osed ACH(50)	(0.00036	1792		98.31	184	.57	0.137	72	7.0	А	JI.	153	60 cu ft	
									N	IASS										
V #	Ma	ass Ty	/ре				Area			Thicknes	ss		Furniture	e Frac	tion		Space)		
1	l De	efault(8 lbs/s	sq.ft.)			0 ft²			0 ft			0.	.30			Mair	1		
Г								HEA	TIN	G SY	'STE	M								
V #	Sy	stem	Туре			Subty	pe/Speed	АНГ	RI#	Effic	ciency		Capacity kBtu/hr	 Entr		ermal H ower		ımp Currer		Block
1	l Ele	ectric	Heat	Pump		Non	e/Single			HSPF	2: 7.50		35.0		(0.00	0.00	0.00	sys#1	1
								coo	LIN	IG SY	STE	M								
#	Sy	stem	Туре			Subty	pe/Speed	AHF	RI#	Ef	ficiency	/		oacity tu/hr		Air Flow cfm		SHR	Duct	Block
1	l Ce	entral	Unit			Sir	ngle/Single	•		SEI	ER2:14	.3	35.0			1050		0.75	sys#1	1

INPUT SUMMARY CHECKLIST REPORT Page 24 of 34

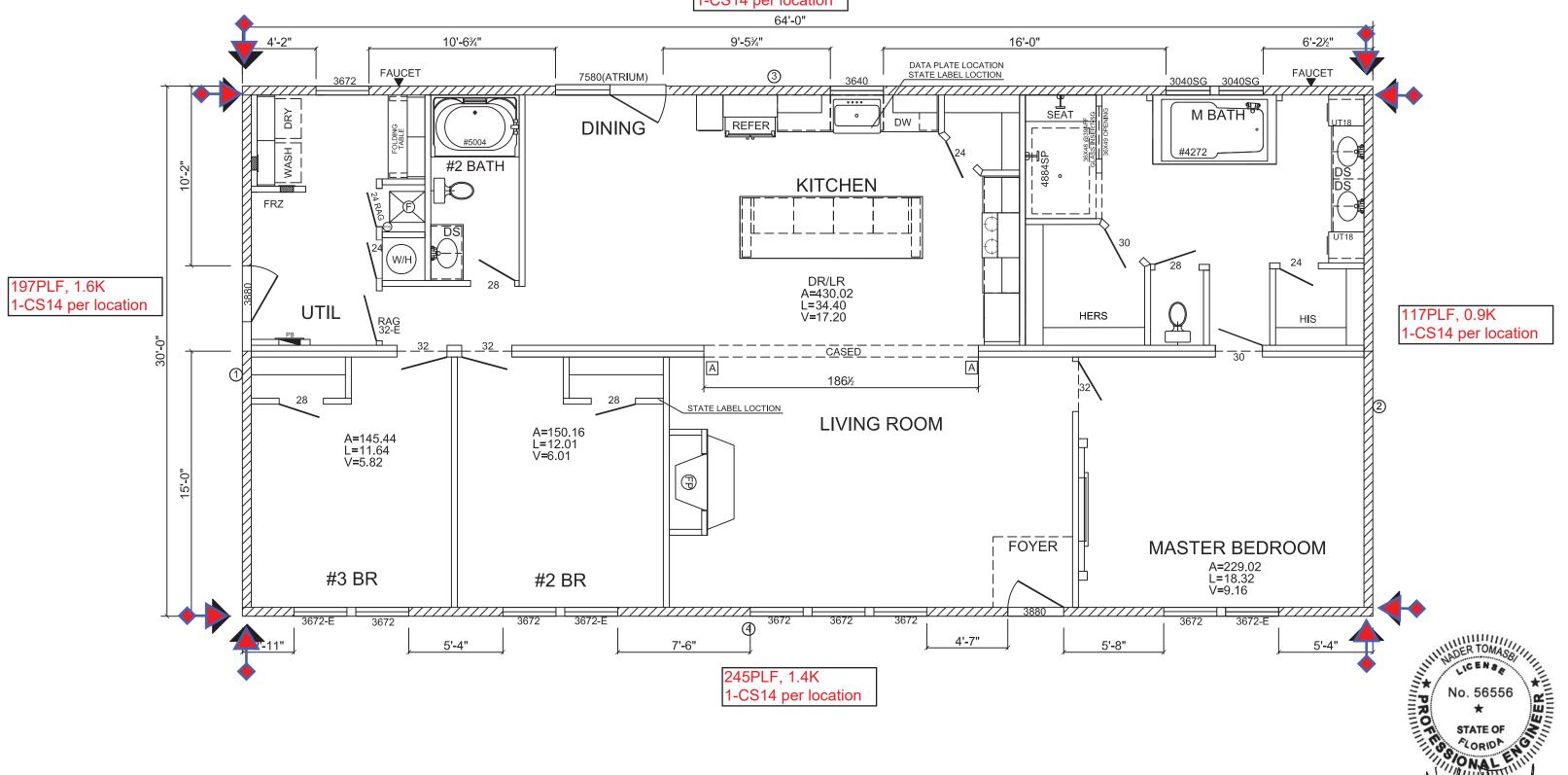
	HOT WATER SYSTEM													
V #	System Type	Subtype		Location		EF(UEF)	Сар	Use	SetPnt	Fixture	Flow	Pipe Ins	. Pip	e length
1	Electric	None		Main		0.92 (0.92) 50.00 ga	l 60 gal	120 deg	Stand	dard	None		99
	Recirculation System		c Control Type		Loop length	Branch length	Pump power	DWHR	Faciliti Connec			DWHR Eff	Othe	er Credits
1	No				NA	NA	NA	No	NA	N/	Ą	NA	Nor	ne
						DU	CTS							
Duc #		upply R-Value A		Reti ation I			Leakage T	уре	Air Handler	CFM 25 TOT	CFM 25 OUT	QN OUT	RLF F	HVAC # leat Cool
1	Attic	6.0 400	ft² Attic		6.0	100 ft²	Proposed	Qn	Main			0.040	0.50	1 1
	TEMPERATURES													
Prog Cool Heat Vent	ing [X] Jan	ostat: N [X] Feb [X] Feb [X] Feb	[X] Mar [X] Mar [X] Mar	[X] Apr [X] Apr [X] Apr	[X] [X]	May [X] Jun] Jun	[X] Jul [X] Jul [X] Jul	[X] Aug [X] Aug [X] Aug	[X] Sep [X] Sep [X] Sep	[X] O [X] O [X] O	ct [>	(] Nov (] Nov (] Nov	[X] Dec [X] Dec [X] Dec
	ermostat Sched hedule Type	lule: Florida	Code 2014 1	2	3	4	5	Hou 6	ırs 7	8	9	10	11	12
Co	poling (WD)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75
Co	poling (WEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75
He	eating (WD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72
He	eating (WEH)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72



7/11/2024



130PLF, 0.7K 1-CS14 per location



* =FINISHED WALL TO FINISHED WALL DIMENSION

SVM-11815	EI 160	6/29/2024 J.TRIPLETT		DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES	REV	REV:	DWG. NO:
FLOOR PLAN	FL 160	NTS PRODUCTION BY:	W:IDV Logo.dwg (2).jpg	SIGNATURE SERIES MOD	REV	REV:	1.0

35 ft

117 plf

30 ft

Effective

seismic

7 ft

Bracing Tributary Length Determination

Deer Valley SVM-11815

Right Endwall (hitch end) - Bracing #2

PLF:

Effective

wind

No Interior Walls	ASCE 7-22	(Also meets ASCE 7-16)	
Endwall Leng	yth = 30 ft	Endwall added area=	0 ft
Sidewall Lend	th = 70 ft		

Sidewall Length /U ft 0 ft Porch Length (Left) =

Porch Length (Right) = 0 ft **Left Endwall Trib From Wall:** 35 ft Wall Height = 8 ft **Left Endwall Trib From Roof:** 35 ft Heel Height of Truss = 8 in **Right Endwall Trib From Wall:** 35 ft

Seismic category = C

Ultimate Wind Speed = **160** mph Wind Exposure = Roof pitch = 2.13 /12

Mean Roof Height = 20 ft

380 PLF Transition from Perforated to Segmented:

Left Endwall - Bracing #1

Perforated or Segmented: P

197 plf Height of Tallest Opening = 7 ft

Wall length when perforated = 30 ft Seament Effective

Segment	Effective	Effective		
length - ft	wind	seismic		
10.17	10.17	10.17		
15	15	15		
0	0	0		
0	0	0		
0	0	0		
0	0	0		
0	0	0		
0	0	0		
0	0	0		
0	0	0		
Total :	25.17	25.17		

15 15 15 15 15 15 0 0 0 0 0 0 No. 56556 0 0 0 0 0 0 0 0 0 STATE OF 0 0 0 0 0 0 0 0 0 7/11/2024 30 otal: 30

Right Endwall Trib From Roof:

Perforated or Segmented:

Height of Tallest Opening =

Wall length when perforated =

Segment

length - ft

Top Sidewall - Bracing #3

Perforated or Segmented: P

PLF: 130 plf Height of Tallest Opening = 7 ft

Wall length when perforated = 70 ft Segment Effective Effective

0		
length - ft	wind	seismic
4.17	4.17	4.17
10.5	10.5	10.5
9.42	9.42	9.42
16	16	16
6.17	6.17	6.17
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	46.26	46.26

Tag load: 0 Lb.

Bottom Sidewall - Bracing #4

Perforated or Segmented: PLF: 245 plf

Height of Tallest Opening = 7 ft

Wall length when perforated = 70 ft Segment Effective Effective

length - ft	wind	seismic
2.92	2.92	2.1316
5.33	5.33	5.33
7.5	7.5	7.5
4.5832	4.5832	4.5832
5.67	5.67	5.67
5.33	5.33	5.33
0	0	0
0	0	0
0	0	0
0	0	0
Total :	31.3332	30.5448

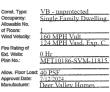
Tag load: 0 Lb.



One Story Shear Wall Wind/Seismic Analysis - No Interior Shearwalls Deer Valley SVM-11815

B = C =	C 20 ft A B	C D 23.1 0.0	STATE OF CONDITION ON AL
Building Values			
Roof pitch =		Sidewall Length =	70 ft
Roof angle =		Conducell Languith -	20.#
Wall Height = Heel Height of Truss =		= Endwall Length = a	
rieer rieight or Truss –	O III	2a =	
		Porch Length (Left) =	
Height of Roof =	3.33 ft	Porch Length (Right) =	0 ft
Left Endwall Shear Values			
Area of End Zone of Sidewall =	24.0 ft ² /side	Total Shear =	836 lbs
Area of End Zone of Roof =	•	Total Shear =	
Area of Interior Zone of Sidewall =	116.0 ft ² /side	Total Shear =	
Area of Interior Zone of Roof =	0	Total Shear =	
Total Shear Force to Endwalls =	3521 lbs		
Right Endwall Shear Values			
Area of End Zone of Sidewall =	24.0 ft ² /side	Total Shear =	836 lbs
Area of End Zone of Roof =	20.0 ft ² /side	Total Shear =	0 lbs
Area of Interior Zone of Sidewall =	116.0 ft ² /side	Total Shear =	2685 lbs
Area of Interior Zone of Roof =	96.5 ft ² /side	Total Shear =	0 lbs
Total Shear Force to Endwalls =	3521 lbs		
Sidewall Shear Values			
Area of End Zone of Wall =		Total Shear =	836 lbs
Area of End Zone of Roof =		Total Shear =	111 lbs
Area of Interior Zone of Wall =		Total Shear =	
Area of Interior Zone of Roof =	22 ft ² /side	Total Shear =	504 lbs
Total Shear Force to Sidewalls =	2284 lbs		





No. 56556

7/11/2024

Seismic category = C

 $S_{DS} = 0.5$

Wall DL = 10 psfRoof DL = 20 psf

Total W for seismic shear walls = 50000 lbs

R = 6.5 $C_s = 0.09615$

 $F_x = 4807.69 \text{ lbs}$ $F_x = 0$

shear on endwalls = 2404 lbs/wall shear on sidewalls = 2404 lbs/wall

Compare Wind vs Seismic for shear walls

	Seismic	Wind	Wind with 1.4 reduction
Endwall	2404	3521	2515
Sidewall	2404	2284	1632

<u>Controlling factors for shear wall panels</u> <u>Controlling factors for Uplift/Shear Forces</u>

Endwall -----> Wind Endwall -----> Wind Sidewall -----> Seismic Sidewall -----> Seismic

Determination of shear wall panel loads

Left Endwall - Bracing #1

Perforated or Segmented: P

Wall length when perforated = 30 ft

Wall Height = 8 ft
Height of Tallest Opening = 7 ft

Height Ratio = 0.875

Length of Full Height Sheathing (3.5:1) = 25.17 ft Length of Full Height Sheathing (2:1) = 25.17 ft

Percent Full Height Sheathing (3.5:1) = 84% Percent Full Height Sheathing (2:1) = 84%

 C_o (3.5:1) = 0.71 from table in IBC

 C_o (2:1) = 0.71 from table in IBC

Total Force (wind) = 4959 lbs

Total Force (seismic) *1.4 = 4740 lbs
Load Taken to Shear Wall Segments = 197 plf <==

Uplift Force at End of Wall = 1576 lbs

1576 lbs







```
P
                  Perforated or Segmented:
              Wall length when perforated =
                                                    30 ft
                              Wall Height =
                                                     8 ft
                Height of Tallest Opening =
                                                     7 ft
                              Height Ratio =
                                                 0.875
   Length of Full Height Sheathing (3.5:1) =
                                                    30 ft
     Length of Full Height Sheathing (2:1) =
                                                    30 ft
     Percent Full Height Sheathing (3.5:1) =
                                                 100%
       Percent Full Height Sheathing (2:1) =
                                                 100%
                                C_o(3.5:1) =
                                                     1 from table in IBC
                                  C_0(2:1) =
                                                     1 from table in IBC
                        Total Force (wind) =
                                                 3521 lbs
                Total Force (seismic) *1.4 =
                                                 3365 lbs
     Load Taken to Shear Wall Segments =
                                                   117 plf
                Uplift Force at End of Wall =
                                                   939 lbs
Top Sidewall - Bracing #3
                                                     P
                  Perforated or Segmented:
              Wall length when perforated =
                                                    70 ft
                              Wall Height =
                                                     8 ft
                Height of Tallest Opening =
                                                     7 ft
                              Height Ratio =
                                                 0.875
   Length of Full Height Sheathing (3.5:1) =
                                                 46.26 ft
     Length of Full Height Sheathing (2:1) =
                                                 46.26 ft
     Percent Full Height Sheathing (3.5:1) =
                                                  66%
       Percent Full Height Sheathing (2:1) =
                                                  66%
                                C_o(3.5:1) =
                                                  0.56 from table in IBC
                                  C_o(2:1) =
                                                  0.56 from table in IBC
                        Total Force (wind) =
                                                 4079 lbs (includes tag load when applicable)
                Total Force (seismic) *1.4 =
                                                 6010 lbs (includes tag load when applicable)
     Load Taken to Shear Wall Segments =
                                                   130 plf
                Uplift Force at End of Wall =
                                                   742 lbs
Bottom Sidewall - Bracing #4
                  Perforated or Segmented:
                                                     P
              Wall length when perforated =
                                                    70 ft
                              Wall Height =
                                                     8 ft
                Height of Tallest Opening =
                                                     7 ft
                              Height Ratio =
                                                 0.875
   Length of Full Height Sheathing (3.5:1) =
                                              31.3332 ft
     Length of Full Height Sheathing (2:1) =
                                              30.5448 ft
     Percent Full Height Sheathing (3.5:1) =
                                                  45%
                                                                                                 7/11/2024
       Percent Full Height Sheathing (2:1) =
                                                  44%
                                C_o(3.5:1) =
                                                  0.45 from table in IBC
                                  C_o(2:1) =
                                                  0.45 from table in IBC
                        Total Force (wind) =
                                                  5076 lbs (includes tag load when applicable)
                Total Force (seismic) *1.4 =
                                                 7479 lbs (includes tag load when applicable)
     Load Taken to Shear Wall Segments =
                                                   245 plf
                Uplift Force at End of Wall =
                                                  1399 lbs
```

Wind Load Determination Worksheet

MWF Low-rise building Method 2

ASCE 7-22

Nominal Wind Speed =	123 m	nph	Roof Slope =		2.13 /12
Ultimate Wind Speed =	160 m	nph			10.07 °
Exposure =	С				
Mean Roof Height =	20 ft	:			
_			α =	9.8	
$K_d =$	0.85		z _g =	2460 ft	
$K_{zt} =$	1				
$K_z =$	0.90		q _h =	29.63 ps	f
I =	1			•	
				GC _{pi} =	0.18
Building Class = E	nclosed Bui	ilding			-0.18
* Gc _{pi} cancels-out on total build		. 0			
- μ	3				
Load A - End Zone of Wall					
1E =	0.67			$GC_{pf} =$	1.18
4E =	-0.50				
	24.00				
A =	34.83 p	ST			
Load C - Interior Zone of Wall					
1 =	0.44			$GC_{pf} =$	0.78
4 =	-0.34			ρ.	
C =	23.15 p	sf			
Load B - End Zone of Roof					
2E =	-1.07			2E load =	-31.70
3E =				3E load =	-17.31
Horz 2E load =	-5.54				
Horz 3E load =	-5.54 -3.03			D -	0.00 pcf
1 1012 SE 10ad -	-3.03			B =	0.00 psf
Load D - End Zone of Roof					



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

-0.69

-3.57

-2.11

3 = -0.40678

Horz 2E load =

Horz 3E load =



Const. Type: V. Occupancy: Si. Allowable No. of Floors: 1. Wind Velocity: 1. Fire Rating of Ext. Walls: Plan No.: M.



2E load =

3E load =

D=

-20.44

-12.05

0.00 psf

One Story Shear Wall Design

Deer Valley SVM-11815 Summary of Forces

Shear Walls

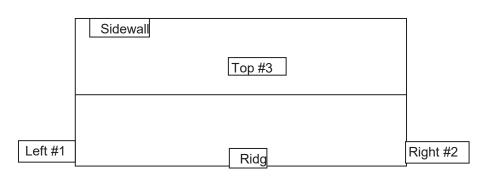
Brace wall PLF-Load CONSTRUCTION

Left endwall - Preforated
Right endwall - Preforated
Top sidewall - Perforated
Bottom sidewall - Perforated

197 7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing
7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing
7/16 in sheathing One Side with 15 gauge staple at 6 in o/c edge spacing
7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing
7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing

<u>Overturning Forces</u>
Simpson CS14 strap capacity: 2.49 Kips
Total Shear Force to Endwalls = 3.5 Kips
2.3 Kips

Racking Load Left endwall -1.6 **Kips** req.# CS14 1.0 Racking load right endwall -0.9 **Kips** req.# CS14 1.0 Racking Load top sidewall -0.7 Kips (Includes tag load when applicable) req.# CS14 1.0 Racking Load bottom sidewall -1.4 Kips (Includes tag load when applicable) req.# CS14 1.0



Endwall

Bottom #4

Roof Diaphragm

7/16 in sheathing with .131 pd nail at unblocked 6 in o/c edge spacing

--



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



Const. Type:

Occupancy:

Allowshie No.

Of Floors:

Fire Rating of Ed. Walls:

Det. Walls:

MFT 10186-SVM-1181

Allow Floor Load: 40 PSE

Accordal Date:

71/270/24

Shear Wall Design

Deer Valley SVM-11815

Left Shearwall

Shearwall Required Design = 197 plf Thickness of Sheathing = 7/16 "

Fastener = 15 gauge staple

Edge Spacing of Fastener = 4 in o/c

Species of Framing = SPF Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing

Sheathing Capacity = 298.48 plf

Shear Wall OK

Right Shearwall

Shearwall Required Design = 117 plf Thickness of Sheathing = 7/16 "

Fastener = 15 gauge staple

Edge Spacing of Fastener = 4 in o/c

Species of Framing = SPF Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing

Sheathing Capacity = 298.48 plf

Shear Wall OK

Top Shearwall

Shearwall Required Design = 130 plf Thickness of Sheathing = 7/16 "

Fastener = 15 gauge staple

Edge Spacing of Fastener = 6 in o/c

Species of Framing = SPF Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with 15 gauge staple at 6 in o/c edge spacing

Sheathing Capacity = 195.16 plf

Shear Wall OK

Bottom Shearwall

Shearwall Required Design = 245 plf Thickness of Sheathing = 7/16 "

Fastener = 15 gauge staple

Edge Spacing of Fastener = 4 in o/c

Species of Framing = SPF Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with 15 gauge staple at 4 in o/c edge spacing

Sheathing Capacity = 298.48 plf

Shear Wall **OK**

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



Const. Type:
Docupancy
If Floors:
If Floors:
The Rating of
Cit. Water
Her Rating of
Cit. Water
Her No.

Diff. More Tank
MC 10186-SVM-1181

Allow, Floor Land:
40 PSF
Approval Date:
1/12/20/24



Roof Diaphragm Design

Deer Valley SVM-11815

Roof Diaphragm width: 30 ft 30 ft

Top of BC of truss sheathed?¹ No

Diaphragm Required Design² = 117 plf 117 plf

Thickness of Sheathing = 7/16 "

Fastener = .131 pd nail

Edge Spacing of Fastener^{3,4,5} = unblocked 6 in o/c

Species of Framing⁶ = SPF

Use 7/16 in sheathing with .131 pd nail at unblocked 6 in o/c edge spacing

Sheathing Capacity⁷ = 296.24 plf

Shear Wall OK

Blocking only required at 0 ft from each endwall

- 1. Design assumes 19/32" min sheathing of at least 1/2 of BC of trusses with .131 pd nails at 6" o/c
- 2. Load increased by 1.4 if seismic loads control to compensate for 1.4 increase in diaphragm panel
- 3. Nail spacing at other panel edges to be as follows
 - 6" o/c if edge spacing is 6" o/c
 - 6" o/c if edge spacing is 4" o/c
 - 3" o/c if edge spacing is 2" o/c
- 4. Framing at adjoining panel edges shall be 3" nominal or wider & nails be staggard where nails are spaced 2" o/c
- 5. Roof sheathing is blocked unless stated unblocked
- 6. Diaphragm panels are reduced by 0.82 for SPF lumber
- 7. Per tables in ESR-1539

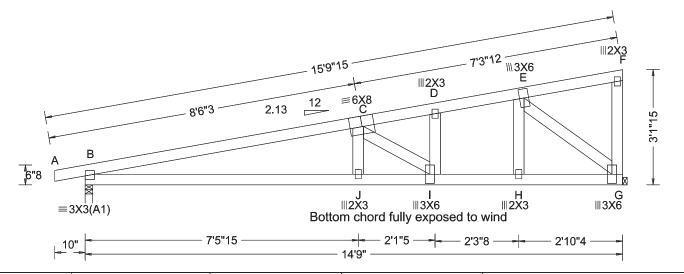


Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



Const. Type:
Occupancy
Allowable No.
of Ploors:
Fine Rating of
Ed. Walls:
Plan No.
Allow Floor Lated:
Allow

Page: 1340 Qlf: 3/4091300002 T54 SEQN: 1481 MONO Ply: 1 Job Number: 115301 DrwNo: 352,23,1745,07053 FROM: Qty: 1 DEER VALLEY DLD / PPH 12/18/2023 Truss Label: M0750728 Ref. 10021862



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	•
TCLL: 20.00 TCDL: 10.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Speed: 140 mph@24"/171@16" Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 30.00 ft TCDL: 5.0 psf@24"/7.5@16" BCDL: 5.0 psf@24"/7.5@16" MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft	. 9	PP Deflection in loc L/defl L/# VERT(LL): 0.124 I 999 240 VERT(CL): 0.244 I 721 240 HORZ(LL): -0.014 C HORZ(TL): 0.029 C Creep Factor: 2.0 Max TC CSI: 0.555 Max BC CSI: 0.813 Max Web CSI: 0.194	L B G W B G B M C C
	Wind Duration: 1.60	WAVE	VIEW Ver: 23.02.01.1109.17	B
Lumber				·

▲ Maximum Reactions (lbs)						
Gravity			Non-Gravity			
Loc R-	+ / R-	/ Rh	/ Rw	/ U	/ RL	
B 650) /-	/-	/487	/564	/229	
G 584	. /-	/-	/445	/521	/-	
Wind re	actions b	ased on I	WFRS			
B Bro	Wid = 2	.5 Min l	Req = 1.5	(Truss	s)	
G Brg	Wid = 1	.5 Min	Req = -	•	•	
Bearing B is a rigid surface.						
Members not listed have forces less than 375#						
Maximum Top Chord Forces Per Ply (lbs)						
Chords	Tens.Co	omp.	Chords	Tens.	Comp.	
B-C	1169 -	1541	D-E	570	- 730	
C-D	635	- 824				

Value Set: NDS 2015 Top chord: 2x4 SP #2; Bot chord: 2x4 SP #2; Webs: 2x4 SP #2;

Wind loads based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure. Wind loading based on both gable and hip roof types.

Additional Notes

Lanai/Porch Loading: 29.6 PLF wind pressure applied to the bottom chord of the truss from 0.00 ft to 14.75 ft,

Alt. load @ 16" o.c.

TC LL	30.0 psf
TC DL	15.0 psf
BC DL	15.0 psf
BC LL	0.0 psf
Tot LD	60.0 psf

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp. Chords Tens.		Tens. (Comp.	
B - J	1477 - 1313	I - H		- 655	
J - I	1459 - 1310	H - G		- 646	

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.	Webs	Tens. Comp.	
C - I	844 - 940	F-G	860 - 967	



FL REQ# 278, David J. Rothweiler, FL PE# 88430 12/19/2023

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. Refer to job's General Notes page for additional information.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.

For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Fabrication by: UFP Haleyville LLC, #317 North Building, 4th Floor Glenview, IL 60025