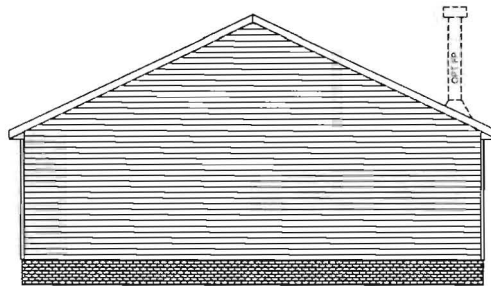
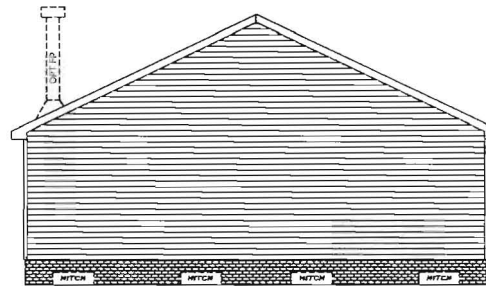


REAR ELEVATION



LEFT ELEVATION



RIGHT ELEVATION



FRONT ELEVATION



**Sun Valley**

A DIVISION OF DEER VALLEY HOMEBUILDERS, INC.

**MODEL: SVM-6203**

**3-BEDROOM / 2-BATH**

**32 x 62 - Approx. 1740 Sq. Ft.**

**NOTES**

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.  
1/150 AT EAVE.
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.

REVISIONS	



**Sun Valley Homebuilders**

205-465-8400

A MODULAR DIVISION OF DEER VALLEY HOMEBUILDERS, INC.  
P.O. Box 310 / 200 Carnegie St.  
Greer, Alabama 36032

DESIGNER	C. JACKSON
DATE	12/12/13
SCALE	NTS
REV	REV DATE

**EXTERIOR ELEVATIONS**

SVM-6203

A.05

# RANCH STRUCTURAL SYSTEM

MODEL SVM-6203  
SUN VALLEY HOMEBUILDERS

3 BEDROOM - 2 BATH  
NOMINAL SIZE 32'-0" x 62'-0"  
ACTUAL SIZE 30'-0" x 58'-0"  
TOTAL AREA: 1740 Sq. Ft.

## GENERAL NOTES

### GENERAL NOTES

STATE CODES LOUISIANA  
2012 International Residential Code ✓  
2011 National Electrical Code

DWELLING IS NOT SPRINKLED

CEILING HEIGHT: 9'-0" Max

CLIMATE ZONE: 2

EXPOSURE FACTOR: B

SEISMIC ZONE: A, B, C

## DESIGN CRITERIA

OCCUPANCY GROUP 1 & 2 FAMILY DWELLING  
CONSTRUCTION TYPE WOOD FRAME UNPROTECTION

## LOAD REQUIREMENTS

FLOOR LIVE LOAD 40 PSF  
FLOOR DEAD LOAD 10 PSF  
WIND LIVE LOAD (VULT-160MPH)(VASD-124MPH)  
(VULT-142MPH)(VASD-110MPH)

ROOF LIVE LOAD 20 PSF  
ROOF DEAD LOAD 7 PSF TC, 7 PSF BC  
ROOF PITCH 4.36 - 7/12  
WINDOW RATING DP 47.2 EXP. B  
WINDOW RATING DP 45.7 EXP. C

## STRUCTURAL SPECIFICATIONS INDEX

- A.01 COVER SHEET
- A.02 TYPICAL FLOOR PLAN
- A.03 TYPICAL ELECTRICAL SCHEMATIC
- A.04 WINDOW & DOOR SCHEDULE
- A.05 EXTERIOR ELEVATION
- A.06 TYPICAL PLUMBING LAYOUT
- A.06.1 DWV LINES
- A.06.2 SUPPLY LINES
- A.09 TYPICAL CROSS SECTION (OFF FRAME)
- A.09.1 TYPICAL CROSS SECTION (ON FRAME)
- A.13 HVAC DETAILS(Downflow))
- A.13.1 HVAC DETAILS(Uplow))
- A.13.2 HVAC DETAILS(Free Return Air)
- A.14.0 FOUNDATION OFF FRAME
- A.14.1 ALT. FOUNDATION ON FRAME
- A.15 TRUSSES DETAILS
- A.16 RESCHECK CALCULATIONS
- A.16.1 RIGHT- SUITE CALCULATIONS

### 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 AND 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 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

## STRUCTURAL SYSTEMS INDEX reference below listed pages for ASCE-7-10

- (VULT-160MPH) (VASD-124MPH)
- (VULT-142MPH) (VASD-110MPH)
- A.01 SYSTEMS COVER SHEET
- A.01.1 SYSTEMS COVER SHEET INDEX
- A.07 FLOOR SYSTEMS(FRAME DEATIL)
- A.07.1 FLOOR SYSTEMS (FLOOR CHARTS)
- A.07.2 FLOOR SYSTEMS(STAIRWAY)
- A.07.3 FLOOR SYSTEMS(GIRDER SPAN)
- A.08 RESERVED
- A.09 TYPICAL CROSS SECTION (OFF FRAME)
- A.09.1 TYPICAL CROSS SECTION (ON FRAME)
- A.10 INTERIOR WALL DETAILS
- A.10.1 UPLIFT STRAPPING
- A.10.2 MARRIAGE & COLUMN STUD DETAILS
- A.10.3 MARRIAGE & COLUMN STUD DETAILS
- A.10.4 MARRIAGE WALL FRAMING DETAILS
- A.11 EXTERIOR WALL SILL PLATE
- A.11.1 SIDEWALL CONSTRUCTION DETAILS (JAMB CHARTS)
- A.11.2 RESERVED
- A.11.3 SIDEWALL CONSTRUCTION CHARTS (HEADER CHARTS)
- A.11.4 STAIR DETAIL
- A.12 ROOF CONST. DETAILS
- A.12.1 RIDGE BEAM CHARTS
- A.12.2 O/H DUCT CROSSOVER @ MATEWALL OPENING
- A.12.3 RESERVED
- A.12.4 RESERVED
- A.12.5 "IN-FIELD" TRUSS FRAMING ANS CONNECTIONS.
- A.13 RESERVED
- A.14 PORCH DETAIL
- A.15 TIE-DOWN DEATIL
- A.18.0 OPT WALK BAY

PROTECTION OF OPENINGS: REF. R301.2.1.2 (IRC)

PROVIDED ON-SITE BY OTHERS

CONSTRUCTION DOCUMENTS SHALL BE KEPT ON THE JOB SITE



## REVISIONS

NO.	DESCRIPTION	DATE

<p><b>Sun Valley Homebuilders</b> 205-485-8400 A MODULAR DIVISION OF DEER VALLEY HOMEBUILDERS, INC. P.O. Box 310 / 205 Carriage St. Oak, Alabama 35563</p>	DESIGNED BY <b>C. JACKSON</b>
	DATE <b>12/12/13</b>
DRAWN BY <b>NTS</b>	CHECKED BY <b>JT</b>
DATE <b>07/21/17</b>	TITLE <b>COVER SHEET</b>
PROJECT NO. <b>SVM-6203</b>	SHEET NO. <b>A.01</b>

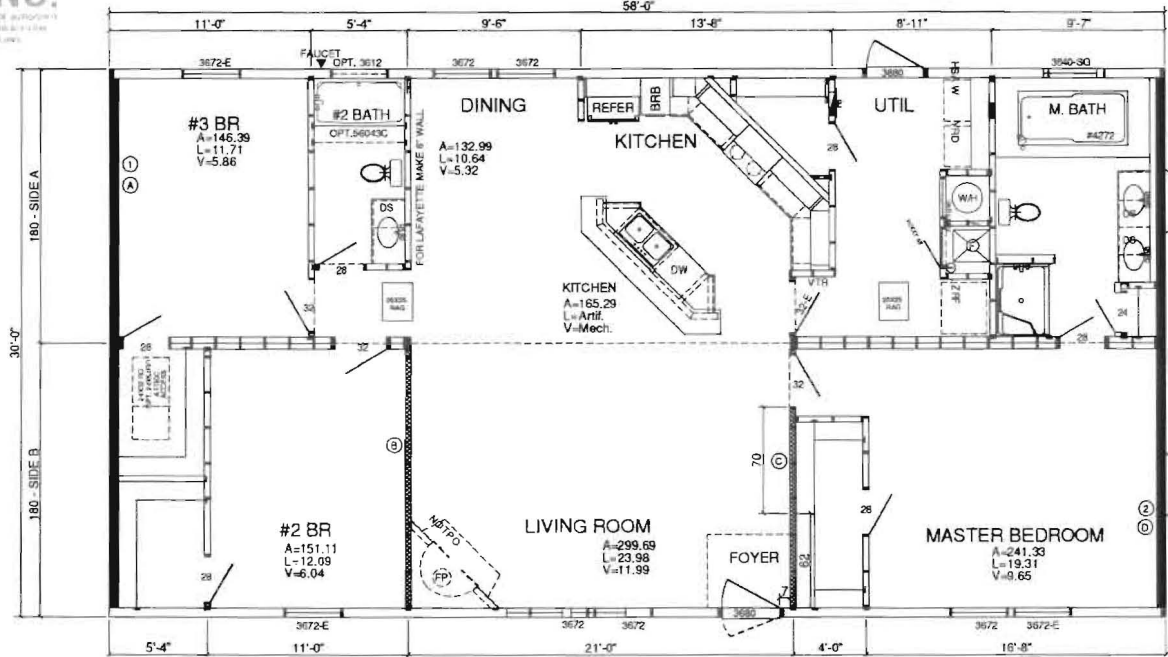
**NOTES:**

1. LIGHT AND VENTILATION PROVIDED WILL BE IN ACCORDANCE WITH 8% OF THE ROOM AREA FOR LIGHT AND 4% OF THE ROOM AREA FOR VENTILATION.  
ROOMS: DINING ROOMS, FAMILY ROOMS, DENS, BEDROOMS, FIREPLACES,
2. FOR DOOR AND WINDOW SIZES SEE SPEC. PAGE.
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.
6. OVERALL DIMENSIONS OF HOME WILL VARY ACCORDING TO 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 IRC REF. (R613.2.)
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, 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 REQUIREMENTS 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 FROM RANGE 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)
16. CONSTRUCTION DOCUMENTS TO BE KEPT ON JOB SITE

ROOM	FLOOR AREA	LIGHT REQ'D.	VENT REQ'D	CFM CAP
MBR	241.33	19.31	9.65	
BEDROOM 2	151.11	12.09	6.04	
BEDROOM 3	146.39	11.71	5.86	
DINING ROOM	132.99	10.64	5.32	
LIVING/HALL	299.69	23.98	11.99	
KITCHEN				100
MBA				50
BATH 2				50
BATH 3				50



FLOOR PLAN		REQ. MODULAR STRUCTURAL SYSTEM FOR FASTENING OPT.		REQ. LAMINATE		110MPH THE DOWN ANCHOR SPACING	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	2x10	1	2x10	1	2x10	1	2x10
2	2x12	2	2x12	2	2x12	2	2x12
3	2x14	3	2x14	3	2x14	3	2x14
4	2x16	4	2x16	4	2x16	4	2x16
5	2x18	5	2x18	5	2x18	5	2x18
6	2x20	6	2x20	6	2x20	6	2x20
7	2x22	7	2x22	7	2x22	7	2x22
8	2x24	8	2x24	8	2x24	8	2x24
9	2x26	9	2x26	9	2x26	9	2x26
10	2x28	10	2x28	10	2x28	10	2x28
11	2x30	11	2x30	11	2x30	11	2x30
12	2x32	12	2x32	12	2x32	12	2x32
13	2x34	13	2x34	13	2x34	13	2x34
14	2x36	14	2x36	14	2x36	14	2x36
15	2x38	15	2x38	15	2x38	15	2x38
16	2x40	16	2x40	16	2x40	16	2x40
17	2x42	17	2x42	17	2x42	17	2x42
18	2x44	18	2x44	18	2x44	18	2x44
19	2x46	19	2x46	19	2x46	19	2x46
20	2x48	20	2x48	20	2x48	20	2x48
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33	2x74	33	2x74	33	2x74	33	2x74
34	2x76	34	2x76	34	2x76	34	2x76
35	2x78	35	2x78	35	2x78	35	2x78
36	2x80	36	2x80	36	2x80	36	2x80
37	2x82	37	2x82	37	2x82	37	2x82
38	2x84	38	2x84	38	2x84	38	2x84
39	2x86	39	2x86	39	2x86	39	2x86
40	2x88	40	2x88	40	2x88	40	2x88
41	2x90	41	2x90	41	2x90	41	2x90
42	2x92	42	2x92	42	2x92	42	2x92
43	2x94	43	2x94	43	2x94	43	2x94
44	2x96	44	2x96	44	2x96	44	2x96
45	2x98	45	2x98	45	2x98	45	2x98
46	2x100	46	2x100	46	2x100	46	2x100



**REVISIONS**

NO.	DESCRIPTION
1	
2	
3	
4	
5	

APPROVED BY

DEC 20 2013



**Sun Valley Homebuilders**

A MODULAR DIVISION OF SUN VALLEY HOMEBUILDERS, INC.  
P.O. Box 310 / 295 Carnegie St.  
Cuth, Alabama 36623

C. JACKSON

12/12/13

NTS

TYPICAL FLOOR PLAN

SVM-6203

A.02

APPROVED BY  
**NIA INC.**  
 7/25/017

ELECTRIC CIRCUIT SCHEDULE						
CIRL NO.	PURPOSE	AMPS (POLES)	VOLTS	WIRE SIZE	CIRL NO.	PURPOSE
1	SMALL APPLIANCES	20 (1)	120	12	14	RANGE COOKTOP
2	BATHS	20 (1)	120	12	15	WALL OVEN
3	SMALL APPLIANCES	20 (1)	120	12	16	GENERAL PURPOSE
4	SMALL APPLIANCES	20 (1)	120	12	17	FREEZER
5	OPT. DISHWASHER	20 (1)	120	12	18	GENERAL PURPOSE
6	GENERAL PURPOSE	20 (1)	120	12	19	EXTRA
7	WATER HEATER	25 (2)	240	10	20	LAUNDRY (WASHER)
8	GENERAL PURPOSE	20 (1)	120	12	21	DRYER
9	MICROWAVE	20 (1)	120	12	22	SMOKE DETECTORS
10	GENERAL PURPOSE	20 (1)	120	12	23	WATER HEATER
11	FURNACE	25 (2)	240	10	24	GENERAL PURPOSE
12	GENERAL PURPOSE	20 (1)	120	12	25	GENERAL PURPOSE
13	OPT. UTILITY	20 (1)	120	12	26	GENERAL PURPOSE

**GFI CIRCUIT PROTECTION**  
 PER MANUFACTURER'S RECOMMENDATION COMPLIANCE DEMAND FLUOR 1800 CONTINUOUS AND/OR MOTOR LOAD FACTOR.  
 ALL CIRCUITS 15A & 20A MUST BE AFCI FAULT PROTECTED WITH EXCEPTION, BATH, KITCHEN, UTILITY.  
 ALL CIRCUITS 125V, 15A & 20A MUST BE TAMPER-RESISTANT.  
 ALL CIRCUITS 15A & 20A MUST BE AFCI FAULT PROTECTED WITH EXCEPTION, BATH, KITCHEN, UTILITY.  
 ALL CIRCUITS 125V, 15A & 20A MUST BE TAMPER-RESISTANT.

LEGEND	
	SERVICE PANEL
	SWITCH
	RECEPTACLE
	WEATHER PROOF RECEPTACLE
	NM CONNECTOR
	RECEPTACLE 200V
	LIGHT (INCANDESCENT)
	PROGRAMMABLE THERMOSTAT STANDARD
	FAN
	SMOKE ALARM
	EXHAUST FAN
	EXHAUST FAN & LIGHT
	JUNCTION BOX
	LIGHT (FLUORESCENT)
	WATER HEATER
	FURNACE
	SWITCH LED
	LISTED AND APPROVED FOR OVER USE

LOAD CALCULATION	
1	2000 SF x 3 WATTS/1000
2	APPL. CIRCUIT
3	RANGE CIRCUIT
4	LAUNDRY CIRCUIT
5	WATER HEATER CIRCUIT
6	DRYER CIRCUIT
7	WASHER CIRCUIT
8	GAS FURNACE MOTOR
9	DISHWASHER
10	RANGE HOOD VENT FAN
11	BATHROOM VENT FAN
12	KITCHEN VENT FAN
TOTAL LOAD	
1	HEATING EQUIPMENT
2	COOLING EQUIPMENT
DESIGN TOTAL	
TOTAL AMPS	

- NOTE:**
- RECEPT. IN HALLWAYS OVER 12' MIN. IN LENGTH.
  - ALL ELECTRICAL WIRING TO BE IN COMPLIANCE WITH N.E.C. PER STATE REQUIREMENT.
  - TWO EXTERIOR G.F.I./W.P. RECEPTS REQUIRED. ONE LOCATED ON THE FRONT OF THE HOME AND ONE LOCATED ON THE REAR OF THE HOME.
  - ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLTS SINGLE PHASE 15.0 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AFCI LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.
  - KITCHEN COUNTERTOP SWITCHES AND RECEPTS ARE TO BE DIRECTLY ABOVE OR WITHIN 12" OF COUNTERTOP.
  - ALL BOX SIZING IN COMPLIANCE WITH N.E.C. PER STATE REQUIREMENT.
  - SMOKE DETECTORS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE 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 UNIT SHALL BE AC-DC AND INTERCONNECTED TO PROVIDE SIMULTANEOUS ACTIVATION AND SHALL RECEIVE POWER FROM A BATTERY WHEN PRIMARY POWER INTERRUPTED.
  - 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.
  - IN MODELS WITHOUT UPSTAIR UTILITY AREA, APPLIANCES SUCH AS WATER HEATERS, WASHERS, AND DRYERS ARE LOCATED IN BASEMENT AND FIELD WIRING BY OTHERS.
  - 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.
  - BUILDING OWNER TO SUPPLY AND INSTALL ALL MATERIALS NOT PROVIDED BY MANUFACTURERS FOR COMPLETE ELECTRICAL HOOK-UP.
  - ALL RECEPTS IN BATHROOMS AND EXTERIOR OF HOME SHALL BE PROTECTED BY GFCI. WHERE POOL TUBS ON A SEPARATE BREAKER AND GFI PROTECTED.
  - ALL RECEPTS ABOVE COUNTERTOPS TO BE PROTECTED BY GFI.
  - ELECTRICAL SERVICE TO BE GROUNDED IN FIELD BY OTHERS AFTER CIRCUITS HAVE BEEN COMPLETED ACCORDING TO LOCAL REQUIREMENTS.
  - NON-METALLIC SHEATHED CABLE SHALL BE SECURED IN PLACE AT INTERVALS NOT EXCEEDING 4' AND BE 12" FROM EVERY CABINET, BOX OR FITTING.
  - NON-METALLIC SHEATHED CABLE PASSING THRU FRAMING MEMBER WITHIN 1 1/4" OF THE EDGE OF SUCH FRAMING MEMBER ARE PROTECTED WITH A 1/8" THICK STEEL BURRING CABLE PASSING THRU NOTCHES ARE PROTECTED WITH 1/8" THICK STEEL PLATES.
  - SURFACE MOUNTED INCANDESCENT FIXTURES INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING PROVIDED THERE IS A MINIMUM CLEARANCE OF 12" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE AREA. NEC-410-60(1)
  - ANY LIGHT LOCATED IN A WET LOCATION MUST BE OF THE ENCLOSED & GASKETED TYPE LISTED FOR WET LOCATIONS.
  - CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM IN DWELLING UNITS WITHIN WHICH FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES. (R315.1)

**FEEDER ASSEMBLY DETAILS  
 200 AMP UNDERGROUND**

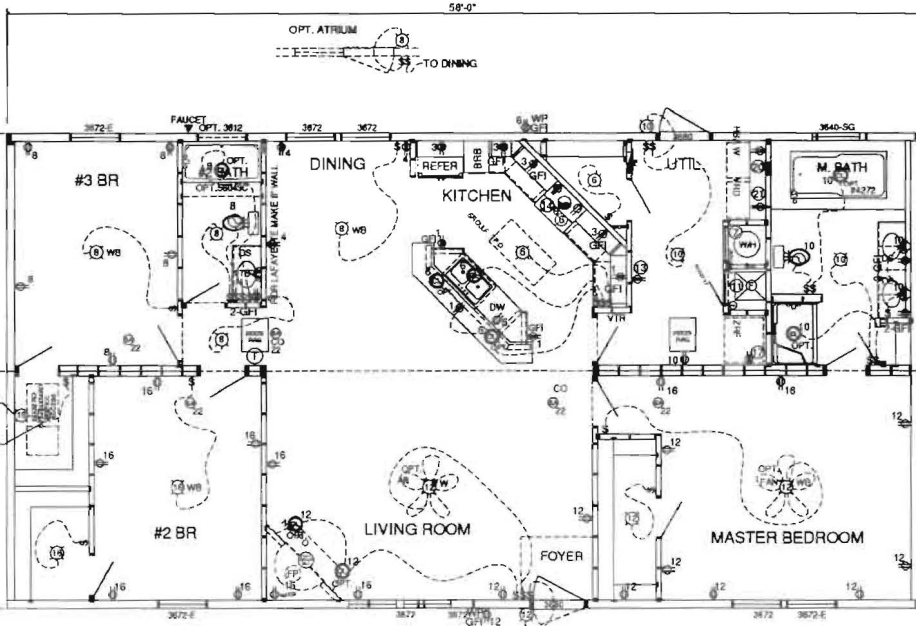
NO.	REVISIONS

**MANUFACTURER SPECIFICATIONS**

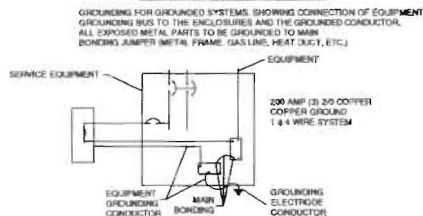
- SERVICE PANEL 200 AMP
- SET CONNECTOR FOR CONDUIT
- NEUTRAL CONDUCTOR-WHITE NO. 2/0 THW-COP.
- MAIN CONDUCTOR-RED AND BLACK 2/0 MCM-THW-CU.
- GROUND CONDUCTOR-GREEN NO. 4 THW-COP.
- 2" CONDUIT-EMT PVC OR EQUAL
- 12 x 12 x 4 WEATHER PROOF BOX-SCREW COVER.
- SOLDERLESS CONNECTORS
- #4 GROUNDING ELECTRODE CONDUCTOR

**NOTE:** SERVICE CONNECTION TO POWER SOURCE SHALL BE PROVIDED BY OTHERS.

**REVISIONS**



**MODULAR GROUNDING DETAIL  
 200 MAIN SERVICE ENTRANCE**



CARBON MONOXIDE ALARMS ARE ONLY REQUIRED TO BE INSTALLED WHEN OUTSIDE OF SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM IN DWELLING UNITS WITHIN WHICH FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES. PER. (R315.1)

APPROVED BY  
 DEC 29 2013

**NIA INC.**

STATE OF LOUISIANA  
 RYAN W. BORING  
 LICENSE NO. 26135  
 PROFESSIONAL ENGINEER  
 IN  
 CIVIL ENGINEERING

**Sun Valley Homebuilders**  
 205-658-8400  
 A MODULAR DIVISION OF DEER VALLEY HOMEBUILDERS, INC.  
 P.O. Box 310 / 285 Cottage St.  
 Gadsden, Alabama 35950

**C. JACKSON**  
 DATE: 12/12/13  
 TITLE: NTS

**TYPICAL ELECTRICAL SCHEMATIC**

SVM-6203 **A.03**



WINDOW SCHEDULE SAVANNAH (LOW-E)  
WINDOW SERIES # 2000 RESIDENTIAL

SG (SAFTY GLAZE)  
E (EGRESS)

**DUNBARTON DOORS LIGHT & VENT CHART**

**CROFT WINDOWS LIGHT & VENT CHART**

ALL EXTERIOR DOOR W/GLASS REQUIRED SAFETY GLAZE SG (SAFTY GLAZE)

DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC.
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			
* 3680 (STORM w/OPEN SLIDER)	11.9	5.7	21.10	142 SF		
75 x 80 (ATRUIM DOOR) w/SCREEN	19.6	20.0	43.11	245 SF	.35	.30
60 x 80 (ATRUIM DOOR) w/SCREEN	17.8	16.67	34.52	222 SF	.31	.27
72 X 80 (SGD) W/SCREEN	32.61	15.49	39.08	387 SF	.31	.27

DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC.
30 X 40	5.64	2.69	8.33	66 SF	.31	.26
36 X 40	6.80	3.24	10	81 SF	.35	.20
36 X 72	13.49	7.14	18	164 SF	.35	.20
24 X 72	8.09	3.95	12	98.5 SF	.31	.26
48 X 72	16.18	7.9	24	197 SF	.28	.26
36 X 72 (BRONZE ALUM.)	13.49	7.14	18	164 SF	.42	.21
36 X 40 (BRONZE ALUM.)	6.80	3.24	10	81 SF	.42	.21
30 X 40 (BRONZE ALUM.)	5.64	2.69	8.33	66 SF	.38	.21
12 X 36 (TRANSOM)	1.28	N/A	3	N/A	.31	.27
12 X 30 (TRANSOM)	1.00	N/A	2.5	N/A	.31	.27
30 X 30 (Glass Block)		N/A	6.35	N/A	N/A	N/A
40 X 40 (Glass Block)		N/A	11.25	N/A	N/A	N/A
34 X 42 (Glass Block)		N/A	10.31	N/A	N/A	N/A

**DP-RATING**

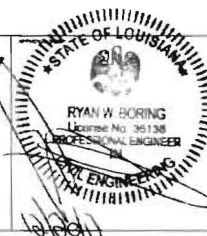
EXP-B	47.2
EXP-C	61.0



REVISIONS


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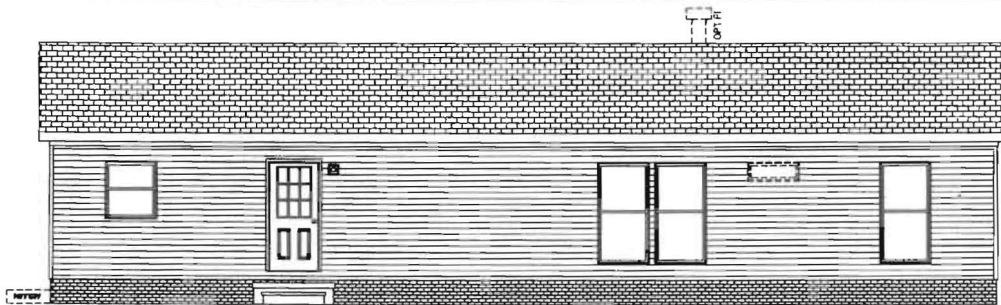
12/12/13

NTS

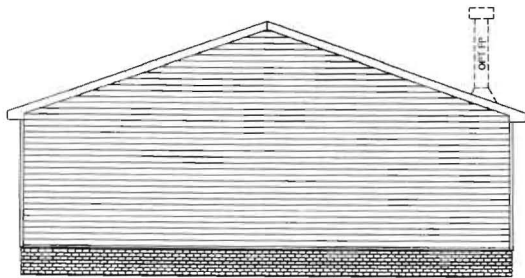
WINDOW & DOOR SCHEDULE

SVM-6203

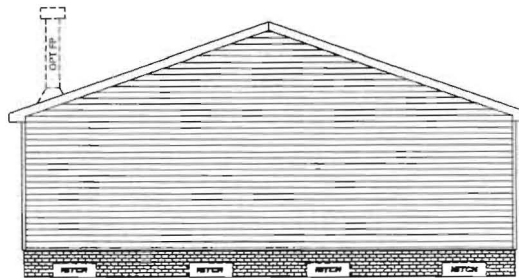
A.4



**REAR ELEVATION**



**LEFT ELEVATION**



**RIGHT ELEVATION**



**FRONT ELEVATION**



**Sun Valley**

A DIVISION OF DEER VALLEY HOMEBUILDERS, INC.

**MODEL: SVM-6203**

**3-BEDROOM / 2-BATH**

**32 x 62 - Approx. 1740 Sq. Ft.**

**NOTES**

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.  
1/150 AT EAVE.
  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.

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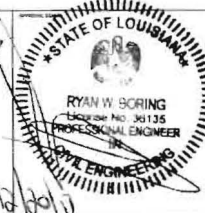


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NO.	DESCRIPTION

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EXTERIOR ELEVATIONS

SVM-6203

A.05

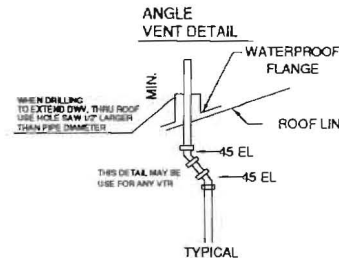
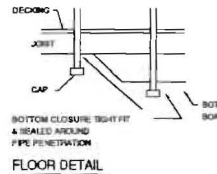
LOUISIANA	TABLE 222.2
DRAIN SIZE	TRAP ARM LENGTH PER 1% SLOPE
1-1/4"	1-1/4" 2'-0"
1-1/2"	1-1/2" 5'-0"
2"	1-1/2" 6'-0"
2"	2" 8'-0"
3"	3" 10'-0"
4"	4" 12'-0"

DWY FITTINGS LEGEND	
90° LONG TURN ELB	A   B   45° ST. ELB
ROBBIE ELB	C   D   90° CLOSET ST. ELB
90° LONG TURN ST. ELB	E   F   SANITARY TEE
DOUBLE SANITARY TEE	G   H   LONG TURN TEE
MECHANICAL VENT	I   J   CAP & CHAIN
COUPLING	K   L   CLEAN OUT PLUG
	M   N   DRAIN FLOOR BUSHING
	O   P
	Q   R
	S   T

**NOTES:**  
 (A) - INLET WITH CAP & CHAIN.  
 (B) - 3/4 RELIEF DRAIN THRU FLOOR.  
 ALL WATER LINES 1/2" UNLESS OTHERWISE SHOWN.

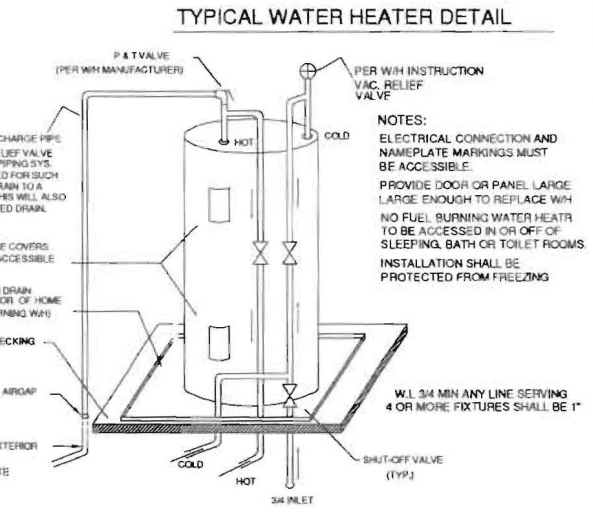
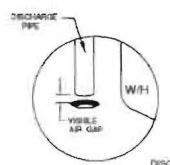
PIPING SUPPORT	
HOT & COLD FLEXIBLE	MAX. SPACING HORIZ./VERT.
3/4" & 1"	2'-0"

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

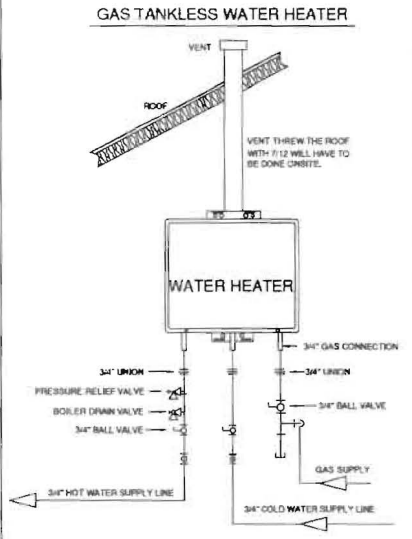


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 7/25/2017

- MAXIMUM FLOW RATE TO BE 2.2 GPM FOR FAUCETS @ 60 PSI AND 2.5 GPM FOR SHOWERS @ 80 PSI.
- DRAINWASTE AND VENT LINES PVC SHALL MEET ASTM D2685-09a REQUIREMENTS.
- 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 SILLCOCKS.
- AN ADEQUATELY RATED PRESSURE AND TEMPERATURE RELIEF VALVE IS TO BE PROVIDED FOR WATER HEATER.
- 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.
- 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.
- 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 3-8, 2" IS 4-0, 3" IS 6-0
- AIR ADMITTANCE VALVES ARE PERMITTED WHEN INSTALLED ACCORDING TO THEIR LISTING. LA, KY, IL, DOESNT 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.
- ALL PLUMBING SHALL BE TESTED IN PLANT AND NO PLUMBING SHALL BE COVERED OR CONCEALED BEFORE BEING TESTED.
- WATER CLOSET SHALL BE 1.6 GALLONS PER FLUSH (MAXIMUM)
- 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 BR1300-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.
- CONCEALED PIPING IN UNHEATED AREAS INCLUDING OUTSIDE WALLS SHALL BE PROTECTED AGAINST FREEZING IN PLANT.
- IN-PLANT FIXTURE DRAINS AND ALL OPEN PIPE SHALL BE PROTECTED (CAPPED) AND LABELED FOR TRANSPORT
- JOIST NOTCHES SHALL NOT EXCEED 1/8 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
- SHUT OFF VALVES ON ALL FIXTURES (OPTIONAL)
- ALL PLUMBING IS TYPICALLY INSTALLED FOR EACH MODULE AT THE TIME OF MANUFACTURE. CERTAIN CIRCUMSTANCES 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.
- WATER HEATER IN BASEMENT TO BE FIELD INSTALLED BY OTHERS
- 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.



SHOWN FOR MAIN OR FIRST OR SECOND FLOOR APPLICATION WATER LINE BASED ON PRESSURE RANGE 50 TO 60PSI



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 Gadsden, Alabama 35903

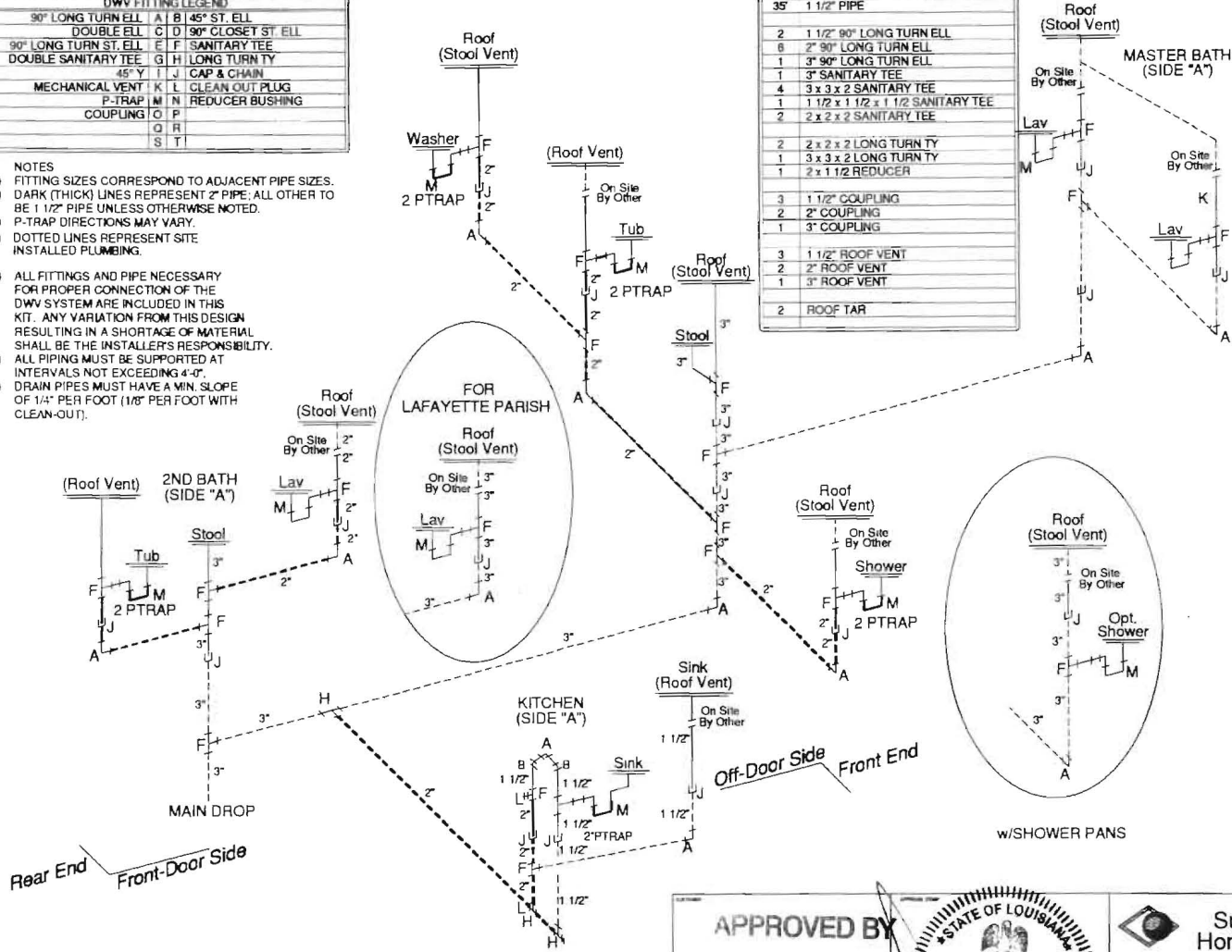
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 NTS

TYPICAL PLUMBING LAYOUT  
 SVM-6203  
 A.6

DWV FITTING LEGEND			
90° LONG TURN ELL	A	B	45° ST. ELL
DOUBLE ELL	C	D	90° CLOSET ST. ELL
90° LONG TURN ST. ELL	E	F	SANITARY TEE
DOUBLE SANITARY TEE	G	H	LONG TURN TY
45° Y	I	J	CAP & CHAIN
MECHANICAL VENT	K	L	CLEAN OUT PLUG
P-TRAP	M	N	REDUCER BUSHING
COUPLING	O	P	
	Q	R	
	S	T	

- NOTES
- FITTING SIZES CORRESPOND TO ADJACENT PIPE SIZES.
  - DARK (THICK) LINES REPRESENT 2" PIPE, ALL OTHER TO BE 1 1/2" PIPE UNLESS OTHERWISE NOTED.
  - P-TRAP DIRECTIONS MAY VARY.
  - DOTTED LINES REPRESENT SITE INSTALLED PLUMBING.
  - 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.
  - ALL PIPING MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 4'-0".
  - DRAIN PIPES MUST HAVE A MIN. SLOPE OF 1/4" PER FOOT (1/8" PER FOOT WITH CLEAN-OUT).

PLUMBING/ROOF HOOKUP KIT	
40'	3" PIPE
73'	2" PIPE
35'	1 1/2" PIPE
2	1 1/2" 90° LONG TURN ELL
6	2" 90° LONG TURN ELL
1	3" 90° LONG TURN ELL
1	3" SANITARY TEE
4	3 x 3 x 2 SANITARY TEE
1	1 1/2 x 1 1/2 x 1 1/2 SANITARY TEE
2	2 x 2 x 2 SANITARY TEE
2	2 x 2 x 2 LONG TURN TY
1	3 x 3 x 2 LONG TURN TY
1	2 x 1 1/2 REDUCER
3	1 1/2" COUPLING
2	2" COUPLING
1	3" COUPLING
3	1 1/2" ROOF VENT
2	2" ROOF VENT
1	3" ROOF VENT
2	ROOF TAR



REVISIONS	

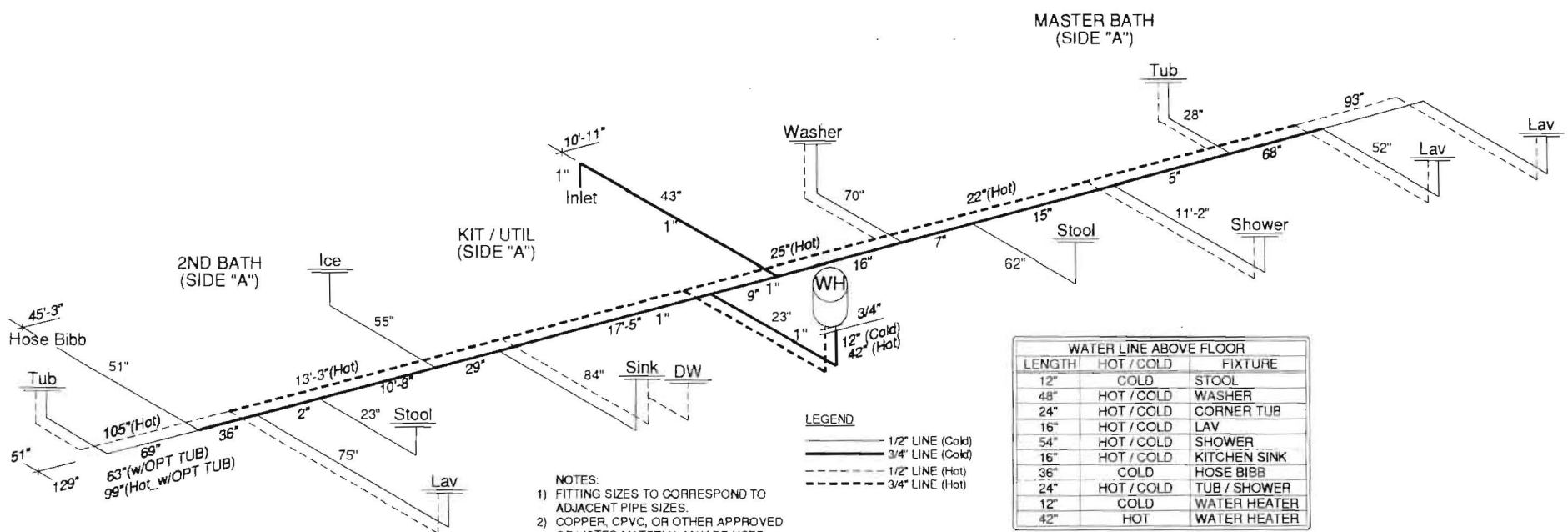
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RYAN W. BORING  
License No. 36126  
PROFESSIONAL ENGINEER  
PLUMBING ENGINEER

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DRAIN LINE PLUMBING LAYOUT  
SVM-6203  
A.6.1



WATER LINE ABOVE FLOOR		
LENGTH	HOT / COLD	FIXTURE
12"	COLD	STOOL
48"	HOT / COLD	WASHER
24"	HOT / COLD	CORNER TUB
16"	HOT / COLD	LAV
54"	HOT / COLD	SHOWER
16"	HOT / COLD	KITCHEN SINK
36"	COLD	HOSE BIBB
24"	HOT / COLD	TUB / SHOWER
12"	COLD	WATER HEATER
42"	HOT	WATER HEATER

LEGEND

— 1/2" LINE (Cold)  
 — 3/4" LINE (Cold)  
 - - - 1/2" LINE (Hot)  
 - - - 3/4" LINE (Hot)

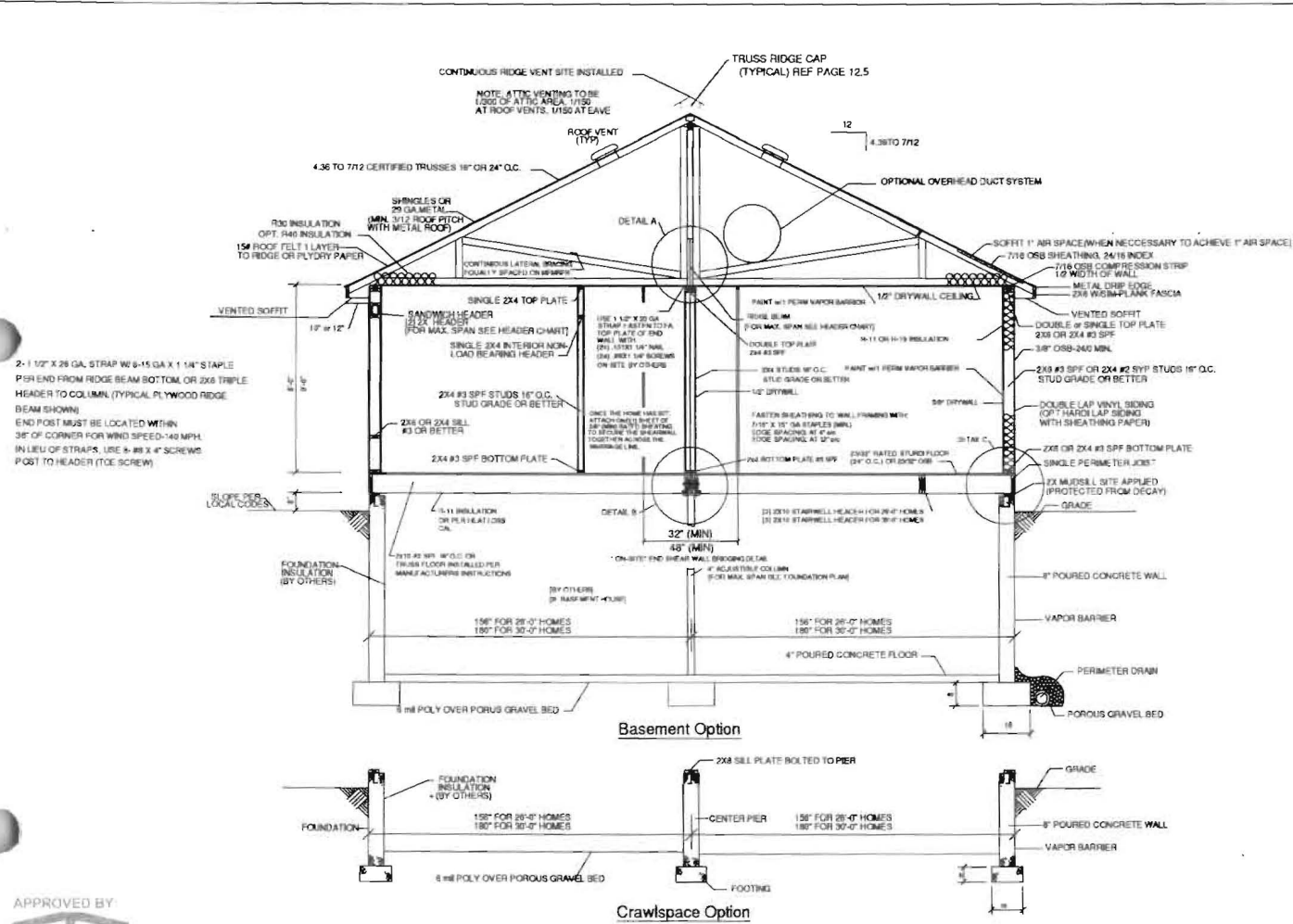
- NOTES:
- 1) FITTING SIZES TO CORRESPOND TO ADJACENT PIPE SIZES.
  - 2) COPPER, CPVC, OR OTHER APPROVED OR LISTED MATERIAL MAY BE USED.
  - 3) ALL SIZING OF PIPE + OR -, MUST MEET OR EXCEED ANY APPLICABLE CODES.
  - 4) PEX LINES MUST BE SUPPORTED 48" OC MAXIMUM.
  - 5) COLD AS SHOWN, HOT THE SAME EXCEPT DROP STOOL, ICE & INLET.
  - 6) PIPE LENGTHS TO FIXTURES INCLUDES PIPE FOR RISERS.

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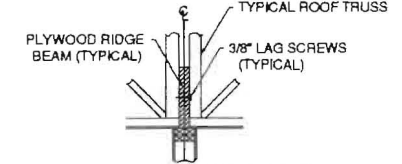
APPROVED BY DEC 20 2013 <b>NIA INC.</b>		<b>Sun Valley Homebuilders</b> <small>735-448-9400</small> <small>A MODULAR DIVISION OF SUN VALLEY HOMEBUILDERS, INC.</small> <small>P.O. Box 310 / 205 Cottage St.</small> <small>Gulf, Alabama 36561</small>	C. JACKSON 12/12/13
			NTS
<b>WATER LINE PLUMBING LAYOUT</b>			SVM-6203
A.6.2			A.6.2





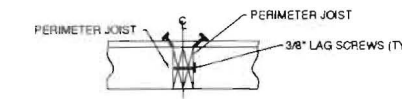
2-1 1/2" X 26 GA. STRAP W/ 6-15 GA X 1 1/4" STAPLE PER END FROM RIDGE BEAM BOTTOM, OR 2X6 TRIPLE HEADER TO COLUMN, (TYPICAL PLYWOOD RIDGE BEAM SHOWN). END POST MUST BE LOCATED WITHIN 36" OF CORNER FOR WIND SPEED 140 MPH. IN LIEU OF STRAPS, USE 8-88 X 4" SCREWS POST TO HEADER (TDC SCREW).

**DETAIL A**  
INTER-CONNECTION BETWEEN HALVES OF THE ROOF SYSTEM



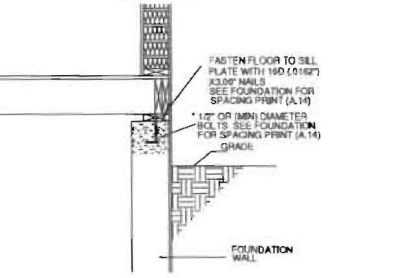
USE ONE (1) 3/8" X 3-1/2" LAG SCREW AT 24" O/C (180 WIDE 26" O/C - MAX E) (156 WIDE 28" O/C - MAX) TO CONNECT THE RIDGE BEAMS FOR EACH HALF OF THE HOME TOGETHER ALONG THE MARRIAGE LINE OF THE ROOF SYSTEM.

**DETAIL B**  
INTER-CONNECTION BETWEEN HALVES OF THE FLOOR SYSTEM



USE ONE (1) 3/8" X 7-0" LAG SCREW AT 16" O/C (180 WIDE 20" O/C - MAX) (156 WIDE 22" O/C - MAX) TO CONNECT THE PERIMETER JOIST FOR EACH HALF OF THE HOME TOGETHER ALONG THE MARRIAGE LINE OF THE FLOOR SYSTEM.

**DETAIL C**



26'-0" & 30'-0" Wide Homes w/10" or 12" Fixed Ovhg.

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**NIA INC.**  
1000 Park of the Champions, Suite 100, Dallas, TX 75241  
www.nia.com  
800.451.1111

REVISIONS

NO.	DESCRIPTION

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**NIA INC.**

STATE OF LOUISIANA  
RYAN W BORING  
Licenses No. 361135  
PROFESSIONAL ENGINEER  
CIVIL ENGINEERING

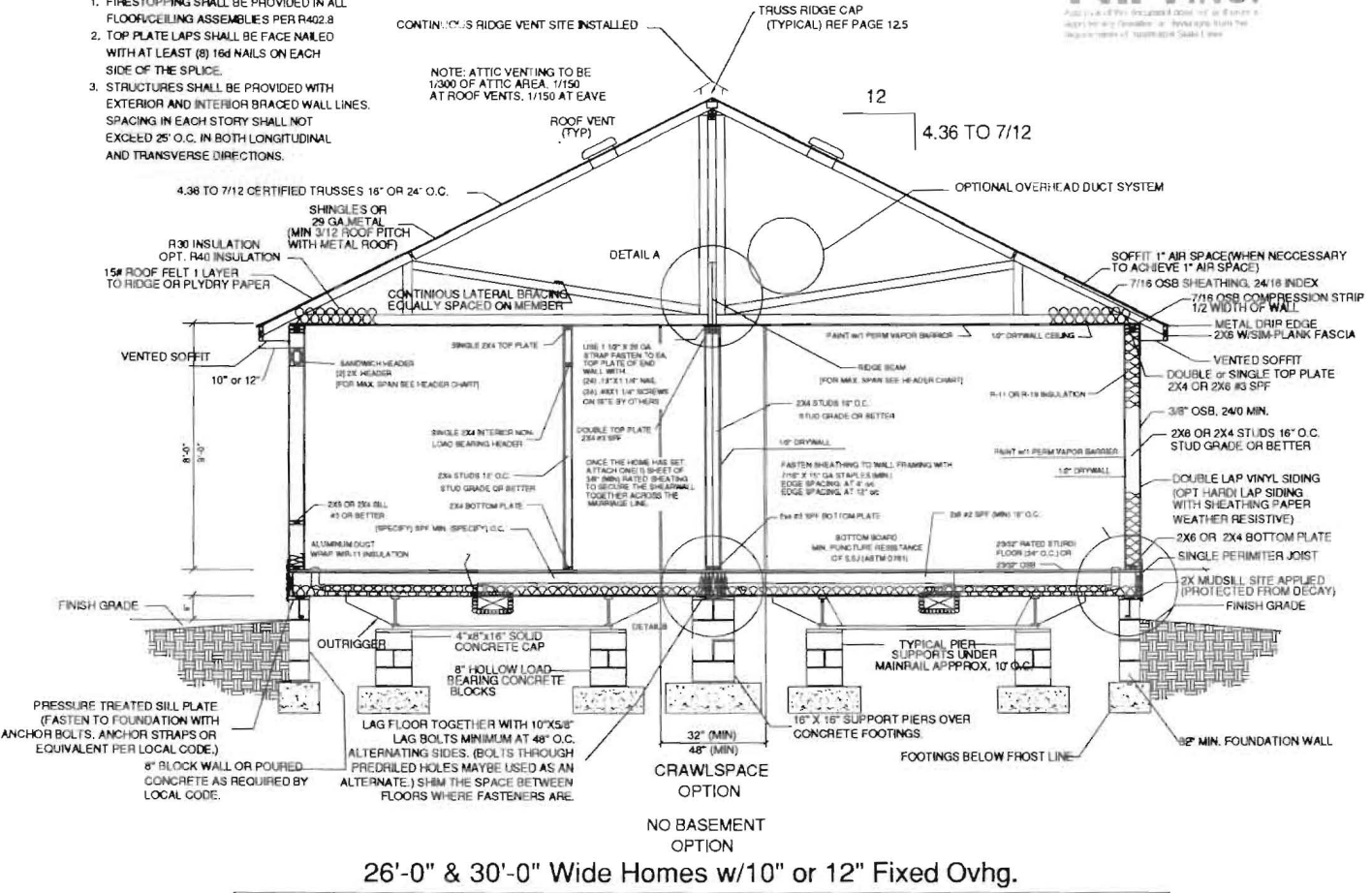
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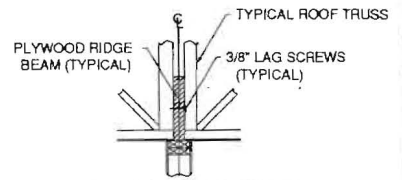
TYPICAL CROSS SECTION (OFF FRAME)  
TYP A.9



- NOTES**
- FIRESTOPPING SHALL BE PROVIDED IN ALL FLOOR/CEILING ASSEMBLIES PER R402.8
  - TOP PLATE LAPS SHALL BE FACE NAILED WITH AT LEAST (8) 16d NAILS ON EACH SIDE OF THE SPLICE.
  - STRUCTURES SHALL BE PROVIDED WITH EXTERIOR AND INTERIOR BRACED WALL LINES. SPACING IN EACH STORY SHALL NOT EXCEED 25' O.C. IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS.

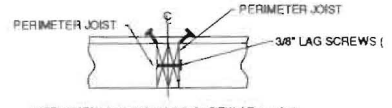


**DETAIL A  
INTER-CONNECTION BETWEEN  
HALVES OF THE ROOF SYSTEM**



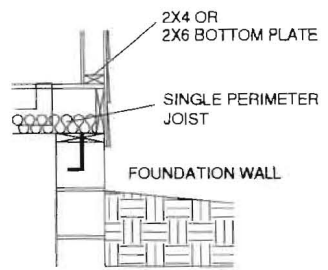
USE ONE(1) 3/8" X 3-1/2" LAG SCREW AT 24" O/C (180 WIDE 26" O/C - MAX E) (156 WIDE 29" O/C-MAX) TO CONNECT THE RIDGE BEAMS FOR EACH HALF OF THE HOME TOGETHER ALONG THE MARRIAGE LINE OF THE ROOF SYSTEM.

**DETAIL B  
INTER-CONNECTION BETWEEN  
HALVES OF THE FLOOR SYSTEM**



USE ONE(1) 3/8" X 7-0" LAG SCREW AT 16" O/C (180 WIDE 20" O/C - MAX) (156 WIDE 22" O/C - MAX) TO CONNECT THE PERIMETER JOIST FOR EACH HALF OF THE HOME TOGETHER ALONG THE MARRIAGE LINE OF THE FLOOR SYSTEM.

**DETAIL C**



**26'-0" & 30'-0" Wide Homes w/10" or 12" Fixed Ovgh.**

NO.	REVISIONS

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**Sun Valley Homebuilders**

205-448-8800

A MODULAR DIVISION OF SUN VALLEY HOMEBUILDERS, INC.  
P.O. Box 310 / 205 Centre St.  
Oxley, Alabama 35081

**C. JACKSON**

12/12/13

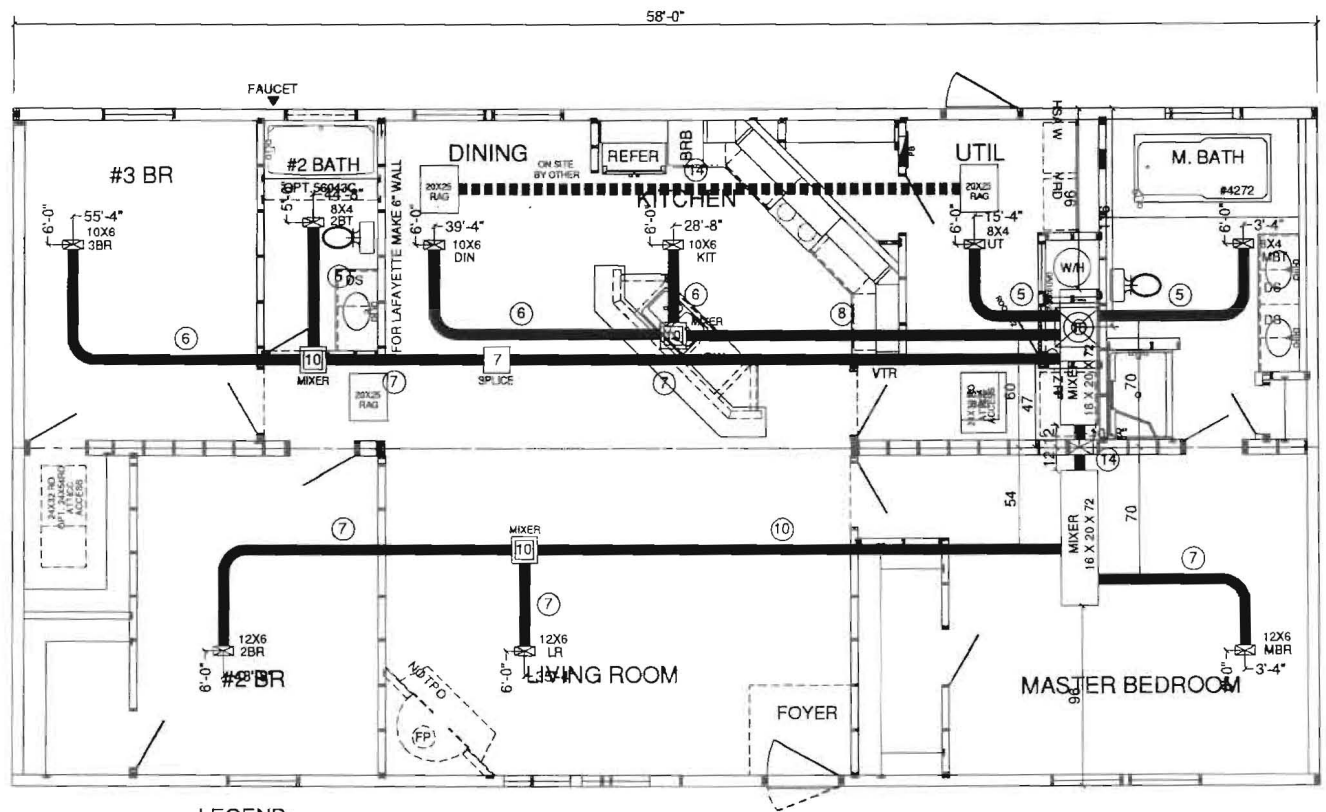
NTS

**TYPICAL CROSS SECTION (ON FRAME)**

TYP

**A.9.1**





**LEGEND:**

- MIXER MAIN MIXER BOX (16 X 20 X 72)
- SPLICE COLLAR SAME SIZE AS FLEX DUCT
- # FLEX DUCT (SIZE NOTED)
- # UPFLOW AIR REGISTER GRILLE (SIZE NOTED)
- # CEILING RETURN AIR GRILLE / JUMPER (SIZE NOTED) - REF. DU-18
- # MATELINE CROSSOVER

**REVISIONS**

NO.	DESCRIPTION



**APPROVED BY**

DEC 20 2013

**NIA INC.**

STATE OF LOUISIANA

RYAN W. BORING  
 ENGINEER No. 36135  
 PROFESSIONAL ENGINEER  
 MECHANICAL ENGINEERING

**Sun Valley Homebuilders**

205-888-8400

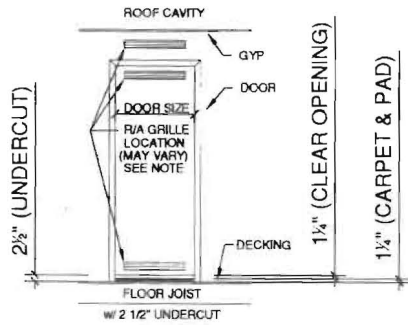
A MODULAR DIVISION OF GREY VALLEY HOMEBUILDERS, INC.  
 P.O. Box 310 / 205 Carriage Ct.  
 Opal, Alabama 35063

**HVAC (UPFLOW)**

SVM-6203

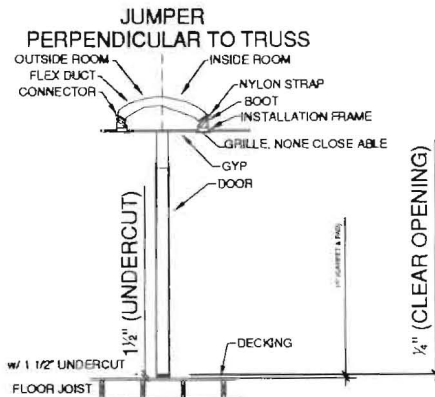
**C. JACKSON**  
 12/12/13  
 NTS

**A.13.1**

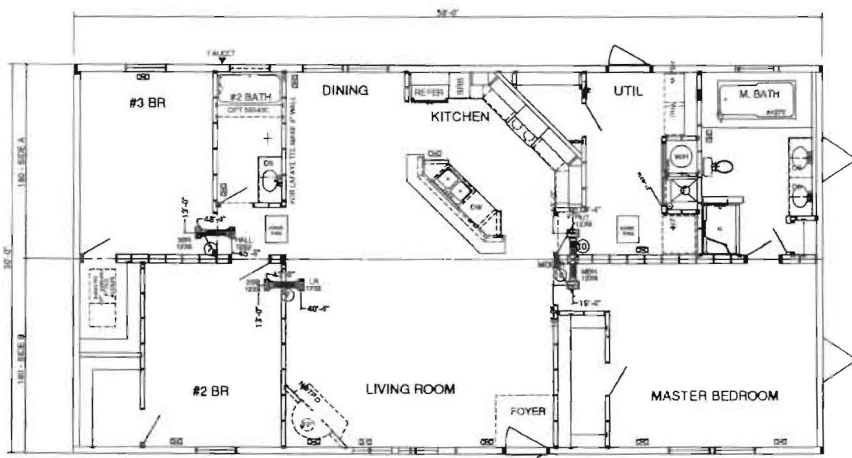
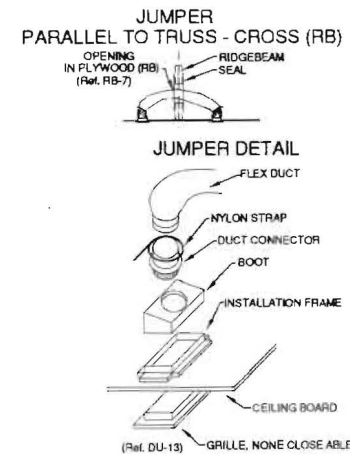


NOTE:  
WHEN MAXIMUM ROOM SIZE HAS EXCEEDED THE FREE RETURN AIR PROVIDED BY THE DOOR'S UNDERCUT AREA, ONE OF THE FOLLOWING SHALL BE INSTALLED TO PROVIDE ADDITIONAL FREE RETURN AIR, OR IN THE HEADER ABOVE THE DOOR.

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



NOTE:  
ONE (1) SQUARE INCH OF FREE RETURN AIR SHALL BE PROVIDED FOR EACH FIVE (5) SQUARE FEET OF ROOM AREA. SEE 3280.715(B) (4) AND B LETTER 80-8-25 FOR MAX. ROOM SIZE.



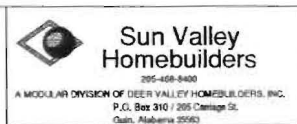
- LEGEND:
- MIXER MAIN MIXER BOX (10 X 20 X 7)
  - SPLICE COLLAR SAME SIZE AS FLEX DUCT
  - MIXER BOX (10 X 10 X 8 X 11) OR OTHERWISE NOTED
  - FLEX DUCT (SIZE NOTED)
  - UPFLOW AIR REGISTER GRILLE (SIZE NOTED)
  - CEILING RETURN AIR GRILLE / JUMPER (SIZE NOTED - REF. DU-13)
  - MATLINE CROSSOVER

REVISIONS

NO.	DESCRIPTION



FREE RETURN AIR								
DOOR SIZE	2 1/2" UNDER CUT		FLEX DUCT		GRILLE			
	1 1/4" (CLEAR OPENING)		MAX. SQ. IN. RETURN	MAX. SF. ROOM SIZE	GRILLE SIZE	DOOR / WALL / CEILING		
24" (23 1/4)	29.06	145 SF	5"	19.5	98.1 SF	24 X 3	36.5	184 SF
26" (25 1/4)	34.06	170 SF	6"	28.26	141.3 SF	10 X 6	45.3	226 SF
30" (29 1/4)	36.96	183 SF	7"	36.45	152.3 SF	12 X 6	55.4	277 SF
32" (31 1/4)	39.06	195 SF	8"	50.24	251.2 SF	12 X 8	73.5	367.5 SF
36" (35 1/4)	44.06	220 SF	9"	63.58	317.9 SF	14 X 20	215.7	1078.5 SF
48" (47 1/4)	59.06	295 SF	10"	78.5	392.5 SF	20 X 25	377.5	1888 SF
			12"	113.04	565.2 SF			
			14"	153.86	769.3 SF			



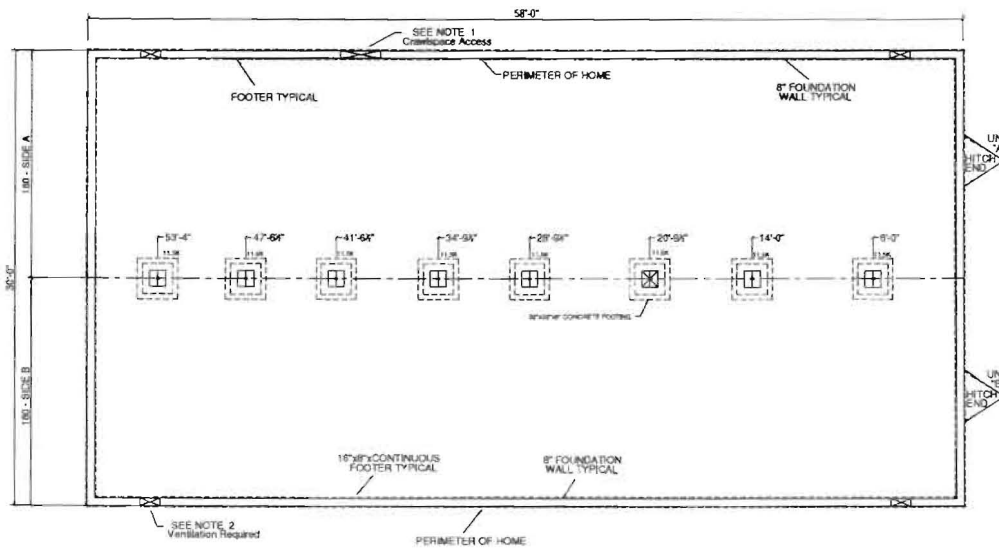
HVAC FREE RETURN AIR

SVM-6203

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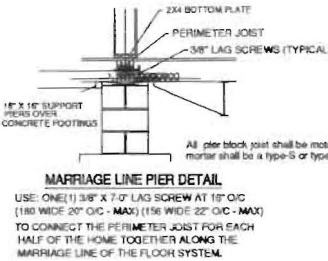
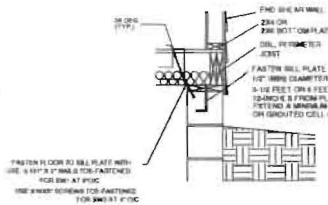
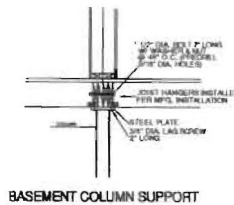
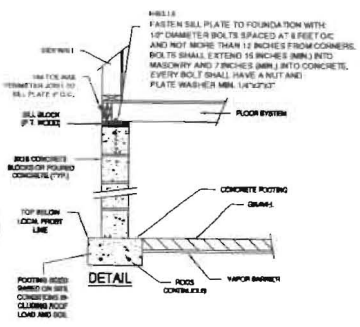
A.13.2





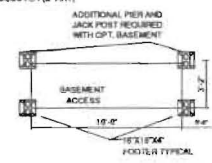
**PERIMETER OF HOME**  
 This is a recommended Foundation Plan only and may change without notice due to continued product development. This Foundation Plan is subject to state/local codes and existing soil analysis. Any and all dimensions are to be checked and verified against the appropriate Floor Plan by the builder/dealer prior to setting jackposts/piers.

- NOTES:**
1. Crawl space Access min. 18" x 24" location may vary.
  2. Minimum crawl space ventilation required must be 1/150 of crawl space and within 3' of each corner and must meet all local code requirements.
  3. Complete foundation by others including footing drains, vapor barrier, treated sill plate, anchor bolts, basement stairs slab & footing reinforcement, backfill, waterproofing, and all finish work below the sill plate.
  4. Minimum soil bearing capacity shall be 2000 psf.
  5. All footings shall extend below the frost line of the locality.
  6. Footings and piers to be designed to the loads and specified by local engineer for local conditions.
  7. All Required Electrical fixtures installed on site by others.
  8. 1/2" x 8" Anchor bolts in poured concrete foundation or 1/2" x 15" Anchor bolts on grout filled block 1'-0" from end of sill plate see approved plan for Anchor spacing.
  9. Concrete 3000psi @ 28 days.
  10. Floor insulation shall be provided and installed by others.
  11. Marriage wall required 7'-10" on center and any opening greater the 4'-0" O.C.



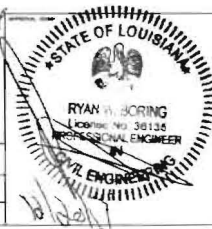
IF THE HOUSE IS INTENDED TO BE LOCATED IN FLOOD PRONE AREA, CONSULT A QUALIFIED REGISTERED PROFESSIONAL ENGINEER TO MAKE SURE THAT THE FOUNDATION DESIGN AND CONSTRUCTION CONFORM TO APPLICABLE REQUIREMENTS OF

- Ⓐ MAIN ELECTRICAL
- Ⓑ ELECTRICAL CROSSOVER
- Ⓒ WATER INLET
- Ⓓ WATER CROSSOVER
- Ⓔ GAS INLET
- Ⓕ GAS CROSSOVER (IF ANY)
- Ⓖ DUCT CROSSOVER
- Ⓗ SEWER DROPS
- Ⓘ RETURN AIR (WO/PT. HEAT PUMP ON DUCT)
- Ⓣ SUPPLY AIR (WO/PT. HEAT PUMP ON DUCT)



APPROVED BY  
**NIA INC.**  
 205-488-5430  
 Address: All the documents on this website are subject to our terms and conditions. To learn more about the terms and conditions, visit our website at: [www.nia.com](http://www.nia.com)

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 DEC 20 2013  
**NIA INC.**



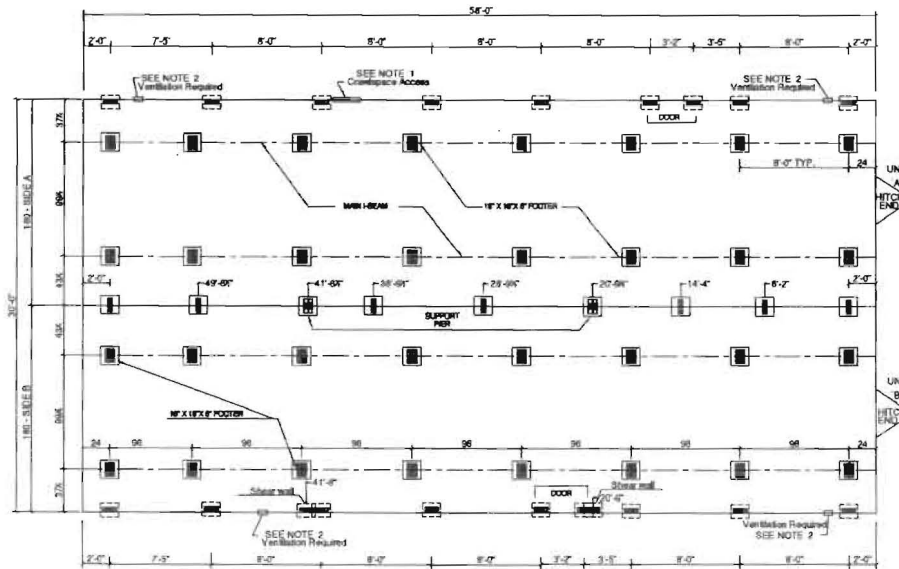
REVISIONS	

**Sun Valley Homebuilders**  
 205-488-5430  
 A MODULAR DIVISION OF DEER VALLEY HOMEBUILDERS, INC.  
 P.O. Box 310 / 205 Cottage St.  
 Gadsden, Alabama 35953

**C. JACKSON**  
 12/12/13  
 NTS

**FOUNDATION (OFF FRAME)**

SVM-6203 A.14



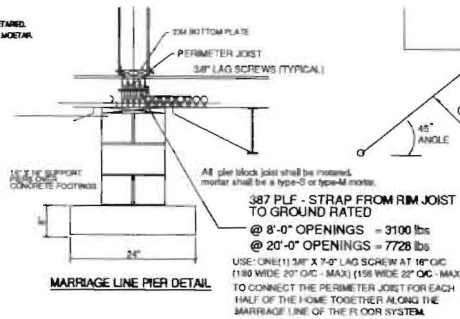
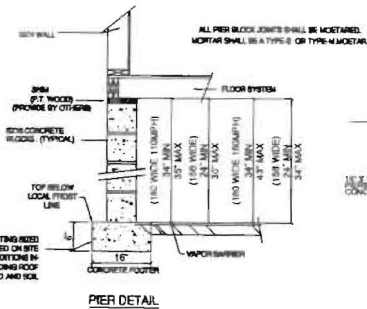
ON FRAME ONLY.

This is a recommended Foundation Plan only and may change without notice due to continued product development. This Foundation Plan is subject to state/local codes and existing soil analysis. Any and all dimensions are to be checked and verified against the appropriate Floor Plan by the builder/dealer prior to setting jackposts/piers.

1. Crawlspace Access min. 18" x 24" location may vary.
2. Minimum crawlspace ventilation required must be 1/150 of crawlspace and within 3' of each corner and must meet all local code requirements.
3. Complete foundation by others including footing drains, vapor barrier, treated sill plate, anchor bolts, basement stairs slab & footing reinforcement, backfill, waterproofing, and all finish work below the sill plate.
4. Minimum soil bearing capacity shall be 2000 psf.
5. All footings shall extend below the frost line of the locality.
6. See approved plans for anchor spacing.
7. Footers and piers to be designed to the loads and specified by local engineer for local conditions.
8. All Required Electrical fixtures installed on site by others.
9. All piers shall start @ 2'-0" o.c. from each end of home & 8'-0" o.c. there after, perimeter, mateline & beam.
10. Piers are also required @ all door opening on perimeter & any opening 4'-0" o.c., opening 8'-0" o.c. or larger requires cbl block on mateline.
11. All houses require perimeter piers with exception of note 12, & 13.
12. All homes with a non hinged roof & vinyl siding with 2x10 floor joist. Shall not required perimeter blocking
13. 28 wide homes with a non hinged roof & vinyl siding with an upgrade to 4'oc. outriggers. Shall not required perimeter blocking.
14. All pier block joist shall be mortared, mortar shall be a type-S or type-M mortar.
15. It is acceptable to dry stack piers with surface bond cements, for on-frame application only, and is still subject to A-I-J, (Authority Having Jurisdiction), Ref. 2009 IRC R606.6.

IF THE HOUSE IS INTENDED TO BE LOCATED IN FLOOD PRONE AREA, CONSULT A QUALIFIED REGISTERED PROFESSIONAL ENGINEER TO MAKE SURE THAT THE FOUNDATION DESIGN AND CONSTRUCTION CONFORM TO APPLICABLE REQUIREMENTS OF LHM.

- ⊕ MAIN ELECTRICAL
- ⊕ ELECTRICAL CROSSOVER
- ⊕ WATER INLET
- ⊕ WATER CROSSOVER
- ⊕ GAS INLET
- ⊕ GAS CROSSOVER (IF ANY)
- ⊕ DUCT CROSSOVER
- ⊕ SEWER DROPS
- ⊕ RETURN AIR (NOPT. HEAT PUMP ON DUCT)
- ⊕ SUPPLY AIR (NOPT. HEAT PUMP ON DUCT)



STRAP/GROUND ANCHOR PER MFR'S INSTRUCTIONS RATED AT MIN. 3150 lbs  
2- STRAPS PER UNIT EACH END

ANCHOR SPACING

110 MPH
5'-0"
150 MPH
4'-0"

THE TIE-DOWN ANCHOR STRAP SHALL HAVE A WORKING LOAD OF 3150 POUNDS (MIN.)

THE VERTICAL TIE CONNECTORS SHALL HAVE 180 WIDE A WORKING LOAD OF 1470 POUNDS (MIN.) 156 WIDE A WORKING LOAD OF 1400 POUNDS (MIN.)

LISTED GROUND ANCHOR STABILIZER PLATE SHALL HAVE A COMBINED WORKING LOAD OF 3150 POUNDS (MIN.)

⊕ MAIN FRAME FOOTING SIZE		⊕ MARRIAGE LINE FOOTING SIZE		⊕ PERIMETER FOOTING SIZE	
SOIL BEARING CAPACITY	REQUIRED FOOTING	SOIL BEARING CAPACITY	REQUIRED FOOTING	SOIL BEARING CAPACITY	REQUIRED FOOTING
1000 PSF	24" X 24" X 4"	1200 PSF	20" X 24" X 4"	1000 PSF	16" X 24" X 4"
1200 PSF	24" X 24" X 4"	1500 PSF	17" X 24" X 4"	1200 PSF	12" X 24" X 4"
2000 PSF	24" X 24" X 4"	2000 PSF	16" X 24" X 4"	2000 PSF	12" X 16" X 4"

APPROVED BY  
**NIA INC.**  
7255 10113  
APPROVED BY THIS OFFICE WITH NO RESERVATION OF LIABILITY FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT.

REVISIONS


APPROVED BY  
DEC 20 2013  
**NIA INC.**



<p><b>Sun Valley Homebuilders</b> 205-488-8800 A MODULAR DIVISION OF SUN VALLEY HOMEBUILDERS, INC. P.O. Box 310 / 205 Carlsale St. Opal, Alabama 35568</p>	<p><b>C. JACKSON</b> DATE: 12/12/13 SCALE: NTS</p>
	<p><b>ALT. PIER FOUNDATION (ON FRAME)</b></p>
<p>TYP</p>	<p>A.14.1</p>



**Project Summary**  
**Entire House**  
**Deer Valley Homebuilders, LLC**

Job:  
 Date: CHRISTIE JACKSON  
 By: 12/13/13  
 Plan: DV-6203

P.O. BOX 310 / 205 CARRIAGE ST, GUIN, AL 35563 Phone: 205-468-8400 Fax: 205-468-0009 Email: @deervalleyhb.com Web: www.deervalleyhb.com

**Project Information**

For: DRONET, AMERICAN HOMES  
 LA

Notes: DV-6203 (32X62) 3+2  
 22-19-40 (CEILING) HEAT REGISTERS

**APPROVED BY**

DEC 20 2013



**Design Information**

Weather: New Orleans Intl AP, LA, US

**Winter Design Conditions**

Outside db 35 °F  
 Inside db 68 °F  
 Design TD 33 °F

**Summer Design Conditions**

Outside db 92 °F  
 Inside db 75 °F  
 Design TD 17 °F  
 Daily range L  
 Relative humidity 50 %  
 Moisture difference 56 gr/lb

**Heating Summary**

Structure 15739 Btuh  
 Ducts 4592 Btuh  
 Central vent (23 cfm) 844 Btuh  
 Humidification 0 Btuh  
 Piping 0 Btuh  
 Equipment load 21175 Btuh

**Sensible Cooling Equipment Load Sizing**

Structure 13653 Btuh  
 Ducts 6024 Btuh  
 Central vent (23 cfm) 432 Btuh  
 Blower 0 Btuh

Use manufacturer's data n  
 Rate/swing multiplier 0.97  
 Equipment sensible load 19486 Btuh

**Infiltration**

Method Simplified  
 Construction quality Average  
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft <sup>2</sup> )	1740	1740
Volume (ft <sup>3</sup> )	14790	14790
Air changes/hour	0.51	0.23
Equiv. AVF (cfm)	126	57

**Latent Cooling Equipment Load Sizing**

Structure 2972 Btuh  
 Ducts 1437 Btuh  
 Central vent (23 cfm) 892 Btuh  
 Equipment latent load 5301 Btuh

Equipment total load 24787 Btuh  
 Req. total capacity at 0.70 SHR 2.3 ton

**Heating Equipment Summary**

Make Generic  
 Trade  
 Model AFUE 100  
 AHRI ref

Efficiency 100 AFUE  
 Heating input 6.2 kW  
 Heating output 21175 Btuh  
 Temperature rise 50 °F  
 Actual air flow 385 cfm  
 Air flow factor 0.019 cfm/Btuh  
 Static pressure 0 in H2O  
 Space thermostat

**Cooling Equipment Summary**

Make Generic  
 Trade  
 Cond SEER 13.0  
 Coil  
 AHRI ref  
 Efficiency 11.6 EER, 13 SEER

Sensible cooling 19486 Btuh  
 Latent cooling 8351 Btuh  
 Total cooling 27837 Btuh  
 Actual air flow 928 cfm  
 Air flow factor 0.047 cfm/Btuh  
 Static pressure 0.30 in H2O  
 Load sensible heat ratio 0.79

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



**Load Short Form**  
**Entire House**  
 Deer Valley Homebuilders, LLC

**APPROVED BY**

DEC 20 2013

Job:  
 Date: CHRISTIE JACKSON  
 By: 12/13/13  
 Plan: DV-6203

P.O. BOX 310 / 205 CARRIAGE ST, GUIN, AL 35563 Phone: 205-468-8400 Fax: 205-468-0009 Email: @deervalleyhb.com Web: www.deervalleyhb.com



APPROVED BY

**Project Information**

For: DRONET, AMERICAN HOMES  
 LA



**Design Information**

	Htg	Clg	Method	Infiltration
Outside db (°F)	35	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Average
Design TD (°F)	33	17	Fireplaces	1 (Average)
Daily range	-	L		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	27	56		

**HEATING EQUIPMENT**

Make Generic  
 Trade  
 Model AFUE 100  
 AHRI ref  
 Efficiency 100 AFUE  
 Heating input 6.2 kW  
 Heating output 21175 Btuh  
 Temperature rise 50 °F  
 Actual air flow 385 cfm  
 Air flow factor 0.019 cfm/Btuh  
 Static pressure 0 in H2O  
 Space thermostat

**COOLING EQUIPMENT**

Make Generic  
 Trade  
 Cond SEER 13.0  
 Coil  
 AHRI ref  
 Efficiency 11.6 EER, 13 SEER  
 Sensible cooling 19486 Btuh  
 Latent cooling 8351 Btuh  
 Total cooling 27837 Btuh  
 Actual air flow 928 cfm  
 Air flow factor 0.047 cfm/Btuh  
 Static pressure 0.30 in H2O  
 Load sensible heat ratio 0.79

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
DR	143	1663	1985	32	94
KIT	203	1720	2338	33	110
MBR	248	3558	3952	67	186
MCLO	60	0	0	0	0
MBT	143	2137	1380	40	65
2BT	58	642	447	12	21
HALL B	25	0	0	0	0
UT	135	1338	640	25	30
3BR	165	2857	1993	54	94
CLO	83	0	0	0	0
2BR	165	2963	3034	56	143
LR	315	3453	3909	65	184

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

Entire House	d	1740	20331	19677	385	928
Other equip loads			844	432		
Equip. @ 0.97 RSM				19486		
Latent cooling				5301		
<b>TOTALS</b>		1740	21175	24787	385	928

**APPROVED BY**

DEC 20 2013



APPROVED BY



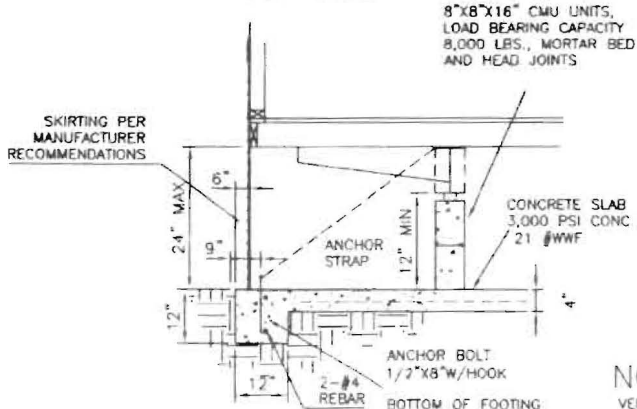
Approval of this document does not authorize or condone any deviation or deviations from the requirements of applicable State Laws.

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



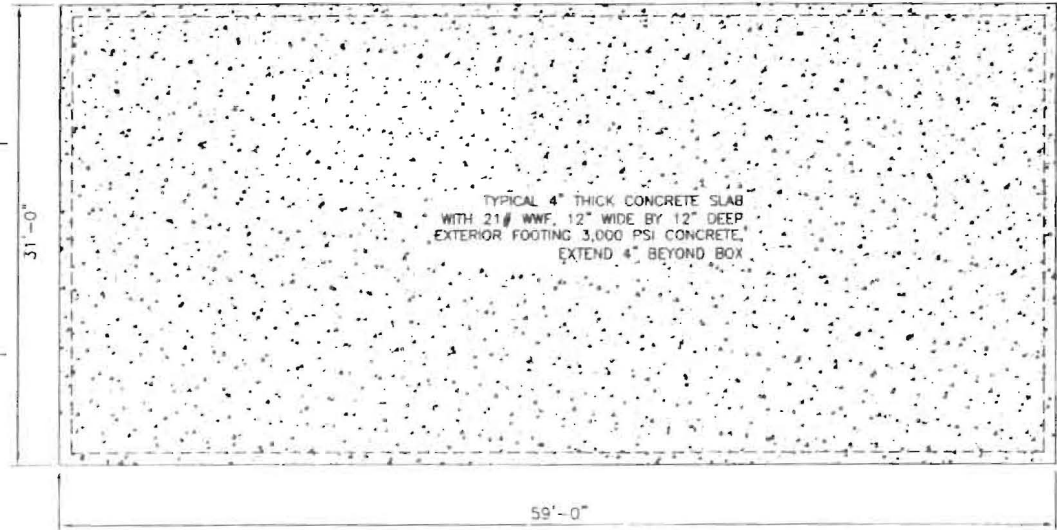
PERMANENT FOUNDATION FOR MANUFACTURED HOUSING DESIGNED IN ACCORDANCE WITH THE PERMANENT FOUNDATION GUIDE FOR MANUFACTURED HOUSING SEPTEMBER 1996 EDITION

DAVID PRICE  
158 WISNER STREET  
PARADIS, LA 70080

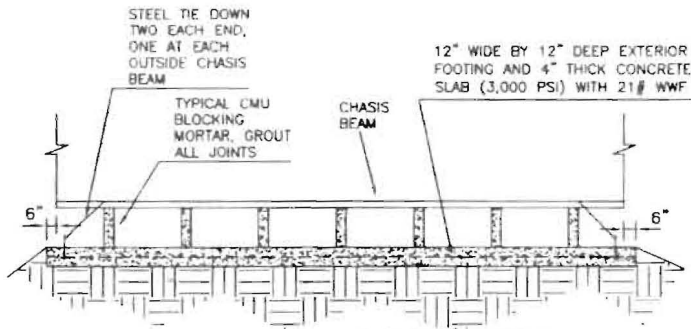


SUPPORT FOOTING  
NO SCALE

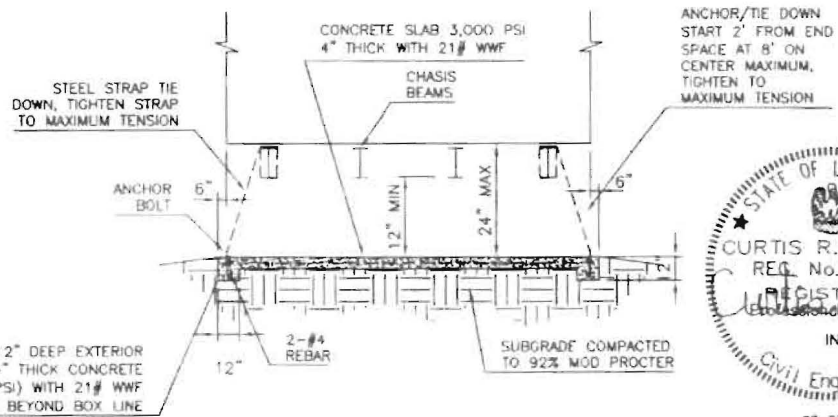
NOTE  
VERIFY EXACT WIDTH DIMENSION OF UNIT WITH MANUFACTURER



PERMANENT FOUNDATION PLAN  
NO SCALE



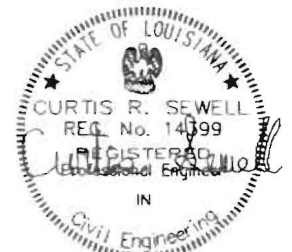
TYPICAL CONCRETE SIDE SECTION  
NO SCALE



CONCRETE BEAM SECTION  
NO SCALE

AMERICAN HOMES  
3423 NW EVANGELINE  
CARENCRO, LA 70520

CURTIS R. SEWELL, P. E.  
PO BOX 53311  
SHREVEPORT, LA 71135  
318-218-7643



07-23-17

(HMR31803-JOB# 66821 DEER VALLEY - REF# 3172139)

Top chord 2x4 SPF #1/#2 :T2 2x6 SPF #1/#2:  
 Bot chord 2x4 SPF #1/#2  
 Webs 2x3 SPF Stud :W6, W8 2x4 SP #1\_12A:  
 Lt Stub Wedge 2x4 SPF #1/#2:

Vult=142 mph wind @ 24° o.c., 25.00 ft mean hgt, ASCE 7-10, PART\_ENC.  
 bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind  
 BC DL=4.0 psf.

Vult=180 mph wind @ 16° o.c., 25.00 ft mean hgt, ASCE 7-10, PART\_ENC.  
 bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=7.5 psf, wind  
 BC DL=6.0 psf.

Vasd=110 mph @ 24° O.C.  
 Vasd=139 mph @ 16° O.C.

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

Bottom chord checked for 10.00 psf non-concurrent live load.

Connection meets L/360 live and L/240 total load. Creep increase factor  
 or dead load is 1.50.

(a) Continuous lateral bracing equally spaced on member.

FIELD CONNECTION SCHEDULE:

TYPE	MAXIMUM LOAD (lbs)	NOTES:
	AXIAL / SHEAR	
1	470T / 398C	-T-TENSION LOAD.
2	76T / 56C	-C-COMPRESSION LOAD.

250  
 -DESIGN CONNECTION FOR COMBINED  
 AXIAL + SHEAR LOAD SHOWN.

(F) NO GAP AT HINGED CONNECTION, PROVIDE A MINIMUM OF 2" WOOD  
 TO WOOD CONTACT WHEN HINGED SECTION IS RAISED.

REFER TO DWG HINGPL160810, HINGPL780810, SHEARPL10109  
 FOR HINGE AND SHEAR PLATE DETAILS.

(L) THE PROJECT ENGINEER OR BUILDING DESIGNER SHALL PROVIDE  
 LATERAL STABILITY AT TOP OF VERTICAL WEB.

(D) BEAM, COLUMN AND CONNECTION TO TRUSS FOR REACTIONS SHOWN SHALL  
 BE DESIGNED BY A LICENSED PROFESSIONAL.

Truss designed for unbalanced snow load based on Pg=20.00 psf @ 24° o.c.  
 Ct=1.10, Ce=1.00, CAT II, Pf=15.4 psf & Lu=15-7-0 ft.

Truss designed for unbalanced snow load based on Pg=30.00 psf @ 16° o.c.  
 Ct=1.10, Ce=1.00, CAT II, Pf=23.1 psf & Lu=15-7-0 ft.

NOTE: THE PROJECT ENGINEER SHALL DESIGN THE SUPPORTS (WALL AND/OR  
 BEAMS, CONNECTIONS, AND BUILDING SYSTEM TO ACCOMMODATE HORIZONTAL  
 REACTIONS ("Rh & RL") WHERE SHOWN.

ALTERNATE LOAD @ 16.0° O.C.

TC LL	23.1 PSF
TC DL	15.0 PSF
BC DL	12.0 PSF
BC LL	0.0 PSF

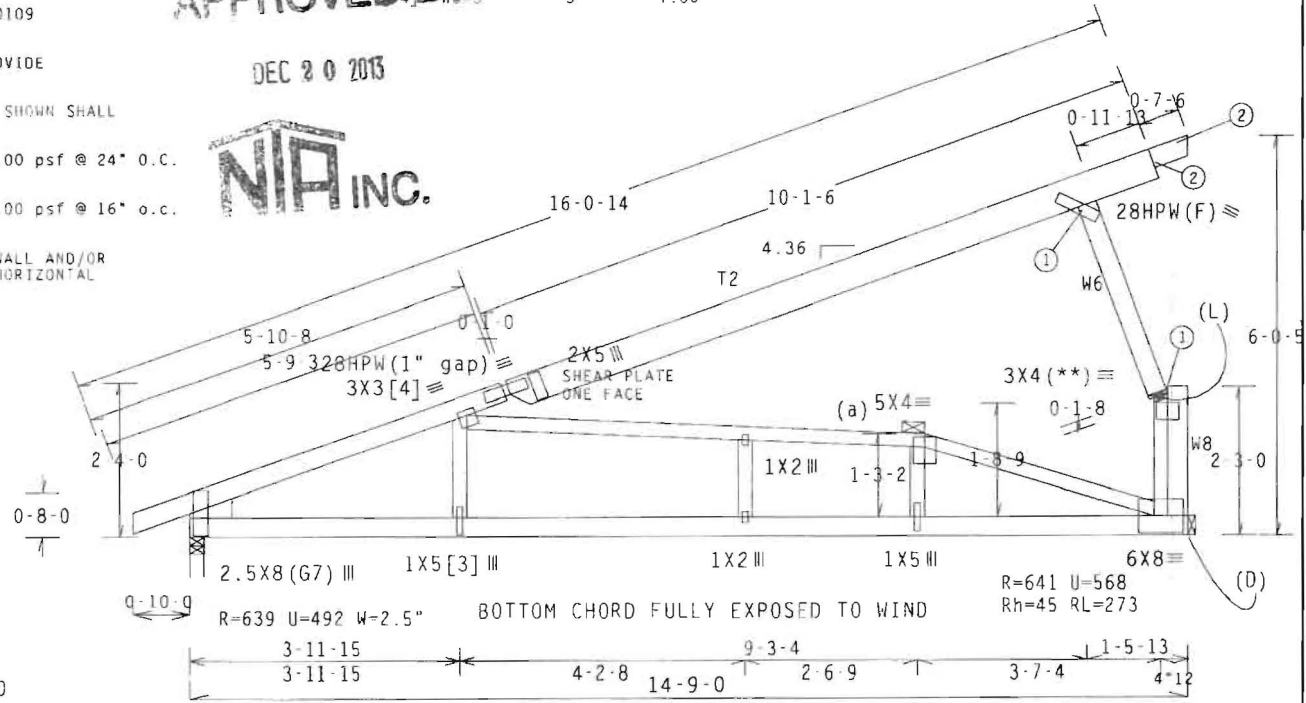
TOT.LD. 50.1 PSF



Approval of this document does not authorize or  
 approve any deviation or deviations from  
 requirements of applicable state or local laws.



DEC 20 2013



[1] REVISED DLD 3/22/2013 INCREASED WIND SPEED TO  
 142 mph @ 24° o.c. AND 180 mph @ 16° o.c.

ADDED Vasd NOTE

Design Crit: IBC2012/TPI-2007 (STD)  
 FT/RT=0% (0%) / 0 (0)

PLT TYP. WAVE

Fabrication by: UFP  
 Haleyville LLC, #317

ITW Building Components Group, Inc.  
 Earth City, MO 63045

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN ERECTION, HANDLING, STIFFING, INSTALLING AND BRACING  
 MEMBERS TO PREVENT BUILDING COLLAPSE. SAFETY PRECAUTIONS: 1) TRUSS PLATE THICKNESS, 2) 18  
 NORTH LEE STREET, SUITE 112, ALEXANDRIA, VA 22304 AND MCA (WOOD TRUSS CENTER OF AMERICA), 6300  
 PATTERSON LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO BEGINNING THESE FUNCTIONS. UNLESS  
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED CEILING PANELS AND BOTTOM CHORD SHALL HAVE  
 A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** WITH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS  
 GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEFECTIVE WORK COMPLETED BY THE CONTRACTOR TO BUILD THE TRUSS  
 IN CONFORMANCE WITH THE SPECIFICATIONS, HANDLING, STORAGE, INSTALLING & BRACING OF TRUSSES.  
 DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF WOOD STRUCTURAL DESIGN SPEC., BY APA/ASD AND IFC. ALPINE  
 TRUSSES ARE MADE OF 2014/186A (N./SS/JK) ASTM A653 GRADE 40/60 (M. K./H.S.S) GALV. STEEL APPLY  
 PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE NOTED ON THIS DESIGN, TRUSS PER SPACING 1604-2.  
 ANY DEVIATION OF PLATES INDICATED BY (1) SHALL BE PER PART 43 OF TPI-2007 SEC. 3. A SEAL ON THIS  
 PRINTING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT  
 DESIGN SHOWN. THE SUITABILITY AND USE OF THIS CONTRACT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE  
 BUILDING DESIGNER PER AWS/TPI 1 SEC. 2.

10.03

ALLYN HUNT FRANK  
 License No. 35670  
 PROFESSIONAL ENGINEER

Scale = .375"/Ft.	REF R9130- 15381
TC LL 20.0 PSF	DATE 03/22/13
TC DL 10.0 PSF	DRW M0USR9130 13081002
BC DL 8.0 PSF	MO-ENG DLD/CWC
BC LL 0.0 PSF	SEQN- 18052
TOT.LD. 38.0 PSF	JREF- 1UU59130Z05
DUR.FAC. 1.15	
SPACING 24.0"	

Top chord 2x4 SPF #1/#2 :T2 2x6 SPF #1/#2:  
 Bot chord 2x3 SPF #1/#2  
 Webs 2x3 SPF Stud :W3, W9 2x4 SPF #1/#2:  
 :Lt Stub Wedge 2x6 SPF #1/#2:

Bottom chord checked for 10.00 psf non-concurrent live load.  
 Deflection meets L/360 live and L/240 total load. Creep increase factor for dead load is 1.50.



Vult=142 mph wind @ 24" o.c., 25.00 ft mean hgt. ASCE 7-10. PART. ENC. bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=5.0 psf, wind BC DL=4.0 psf.

Vult=180 mph wind @ 16" o.c., 25.00 ft mean hgt. ASCE 7-10. PART. ENC. bldg. Located anywhere in roof, CAT II, EXP C, wind TC DL=7.5 psf, wind BC DL=6.0 psf.

Vasd=110 mph @ 24" O.C.  
 Vasd=139 mph @ 16" O.C.

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

CIRCLED NUMBERS INDICATE TYPE OF FIELD CONNECTION REQUIRED- SEE SCHEDULE FOR CONNECTION LOADS AND REQUIREMENTS. TIGHT FIT IS REQUIRED BETWEEN ALL MEMBERS AT THE JOINT. CONTACT ITWBCG FOR ALTERNATE JOINT CONDITIONS (TO ACCOMMODATE NAILERS AND PLATES AT MEMBER ENDS. ALL FIELD CONNECTIONS SHALL BE DESIGNED BY THE PROJECT ENGINEER AND CONFORM TO THE HOME MANUFACTURER'S INSTALLATION DETAILS. WARNING: FAILURE TO PROVIDE PROPER FIELD CONNECTIONS MAY RESULT IN INADEQUATE STRUCTURAL PERFORMANCE.

(a) Continuous lateral bracing equally spaced on member.

JI No	PLATE SIZE	LATERAL SHIFT	CHORD BITE
[ 4 ]	W2X3 (R)	S	1.00
[ 8 ]	W2X3 (R)	S	1.00
[16]	W4X5	S	2.25

FIELD CONNECTION SCHEDULE:

TYPE	MAXIMUM LOAD (lbs)	NOTES:
1	379T / 409C	T-TENSION LOAD.
2	70T / 126C	C-COMPRESSION LOAD.
		DESIGN CONNECTION FOR COMBINED AXIAL + SHEAR LOAD SHOWN.

REFER TO DRWG HINGPL160810, HINGPL780810, SHEARPLT0109 FOR HINGE AND SHEAR PLATE DETAILS.

APPROVED BY

DEC 2 0 2013



- (L) THE PROJECT ENGINEER OR BUILDING DESIGNER SHALL PROVIDE LATERAL STABILITY AT TOP OF VERTICAL WEB.
- (D) BEAM, COLUMN AND CONNECTION TO TRUSS FOR REACTIONS SHOWN SHALL BE DESIGNED BY A LICENSED PROFESSIONAL.

NOTE: THE PROJECT ENGINEER SHALL DESIGN THE SUPPORTS (WALL AND/OR BEAMS, CONNECTIONS, AND BUILDING SYSTEM TO ACCOMMODATE HORIZONTAL REACTIONS ("Rn & RL") WHERE SHOWN.

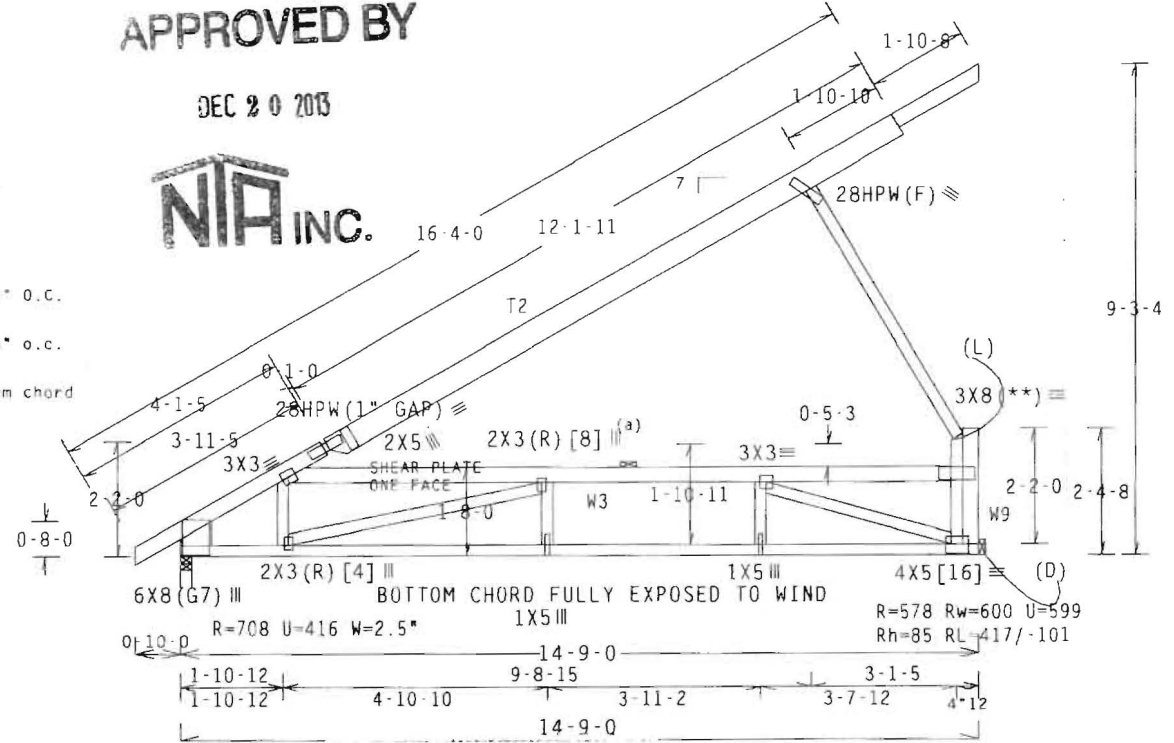
Truss designed for unbalanced snow load based on Pg=20.00 psf @ 24" O.C. Ct=1.10, Ce=1.00, CAT II, Pf=15.4 psf & Lu=15-7-0 ft.

Truss designed for unbalanced snow load based on Pg=30.00 psf @ 16" o.c. Ct=1.10, Ce=1.00, CAT II, Pf=23.1 psf & Lu=15-7-0 ft.

Lana/Porch Loading : 33.8 PLF wind pressure applied to the bottom chord of the truss from 0.00 ft to 14.75 ft.

ALTERNATE LOAD @ 16.0" O.C.

TC LL	23.1 PSF
TC DL	15.0 PSF
BC DL	15.0 PSF
BC LL	0.0 PSF
TOT.LD.	53.1 PSF



[1] REVISED DLD 3/22/2013 INCREASED WIND SPEED TO 142 mph @ 24" o.c. AND 180 mph @ 16" o.c. ADDED Vasd NOTE

Design Crit: IBC2012/TPI-2007 (STD)  
 FT/RT=0% (0%) / 0 (0)

PLT TYP. WAVE

Fabrication by: UFP Haleyville LLC, #317

Earth City, MO 63045

**\*\*WARNING\*\*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 5300 ENTERPRISE LANE, MARSHIN, MI 48759) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

**\*\*IMPORTANT\*\*** PROVIDE A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BUILDING COMPONENTS GROUP, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL) DESIGN SPEC. BY AISC AND TPI. ALPINE CONNECTION PLATES ARE MADE OF 20/18/16GA (W, W48S/24) ASTM A575 GRADE 50/50 (W, W48S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING USA-2. ANY DEVIATION OF PLATES FOLLOWED BY (E) SHALL BE PER PART 3 OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.

10.03 STATE OF LOUISIANA

ALLYN HUNT FRANK  
 License No. 35670  
 PROFESSIONAL ENGINEER

Scale	Scale = .3"/Ft.
TC DL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT.LD.	40.0 PSF
DUR.FAC.	1.15
SPACING	24.0"
REF	R9130- 14560
DATE	02/28/13
DRW	M05UR9130 13059003
MO-ENG	DLD/CWC
SEQN-	18027 REV
JREF-	1UU59130Z03