

STATE OF MISSISSIPPI



GEORGE DALE
Commissioner of Insurance
State Fire Marshal

LEE HARRELL
Deputy Commissioner of Insurance

RICKY DAVIS
State Chief Deputy Fire Marshal

LARRY BARR
State Fire Coordinator

DEPARTMENT OF INSURANCE
OFFICE OF THE FIRE MARSHAL

501 N. WEST STREET • 1001 WOOLFOLK BUILDING
JACKSON, MISSISSIPPI 39201
firemarshal@mid.state.ms.us
Website: www.doi.state.ms.us

Post Office Box 79 (39205)
Jackson, Mississippi
State Fire Marshal's Office
(601) 359-1061
1-888-648-0877
Fax: (601) 359-1076
State Fire Coordinator
(601) 359-1062

June 11, 2007

VIA CERTIFIED MAIL

David J. Barts, Account Manager
NTA, Inc.
Post Office Box 490
Nappanee, Indiana 46550

Re: Model No.: 1240
Hart Housing, a Division of Forest River Housing

Dear Mr. Barts:

This is to acknowledge receipt of, and the review of, the referenced modular plan submittal and Quality Assurance & Installation Manual by the State Fire Marshal's Office.

The review was conducted, specifically, to determine whether substantial compliance with the 2003 International Residential Code (IRC) and the American National Standards Institute (ANSI) - A119.5 standard. Therefore, based on the provided information, the State Fire Marshal's Office has **APPROVED** your submittal and accompanying manual with the following comments and conditions:

- 1) The construction documents are not of sufficient clarity to determine complete code compliance. (IRC §R106.1.1)
- ✓ 2) Insert under "Additional Notes" of the cover sheet the following specific pieces of information:
 - ✓ a. Manufacturer's installation instructions shall be available on the job site at the time of inspection. IRC §R106.1.2).
 - ✓ b. Add "ASCE 7-02" to indicate that the construction in areas where basic wind speeds equal or exceed 110 mph to be designed by one of four methods described in Section R301.2.1.1.
- ✓ 3) Clarify Elevations, Page 1A, regarding Disclaimer, which state "NOTE: Metal roof construction may require thicker roof sheathing". It is the State Fire Marshal's Office understanding that it will be too late to remove the roof sheathing in order to apply the correct thickness sheathing material and install with the correct fasteners if approval is received without the complete package.

- 4) Revise Crawlspace Foundation (30 psf), Page 9A-9D, to show that the "Foundation is based on 1200 psf soil," and not on the 2000 psf as indicated. Please review Addendum #2 - Park Model 999-71 RFP - Page 79, Item 113 Response: In the Park Model design RFP were the units designed to 2000 psf soil bearing characteristic? The foundation design shall be based on a soil bearing pressure of 1,200 psf.

- 5) Provide the following notes for city specific items:
 - a) **Ocean Springs** - Provide an expansion tank or other device designed for intermittent operation for thermal expansion control at the water heater if a backflow preventer is on or to be installed on the water line or at the meter.
 - b) **Long Beach** - Provide a manifold with proper labeling if PEX tubing and fittings are installed on water system. Further, such PEX tubing and fittings shall be installed in accordance with the manufacturer's published instructions, the applicable codes and any ES report regarding the particular PEX product. Where differences exist, the instructions in any ES Report pertaining to the applicable PEX product shall govern.
 - c) **Harrison County** - Provide that wood joists or the bottom of a wood structural floor when closer than 18 inches or wood girders when closer than 12 inches to the exposed ground in crawl spaces or unexcavated area located within the periphery of the building foundation.

If there are any questions or comments please feel free to contact this office at (601) 359-1061.

Sincerely,



Eugene Humphrey, Jr., CBI, CFPE, CBPE
Assistant Chief Deputy State Fire Marshal
Fire Code Enforcement/Factory-Built Home Division

Cc: Ricky Davis
Chief Deputy State Fire Marshal

Ronald Jones
Deputy State Fire Marshal

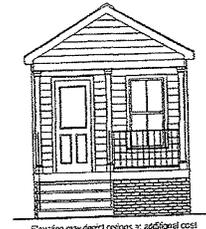
Design Codes: (Mississippi)

2003 IBC/IRC, 2005 NEC
 MISSISSIPPI MODULAR APPROVAL
 PARK MODEL APPROVAL ANSI A119.5
 FLOOR LIVE LOAD: 40 PSF TCDL = 7 PSF
 FLOOR DEAD LOAD: 10 PSF BCDL = 7 PSF
 GROUND SNOW LOAD: 30 PSF. BCLL = 10 PSF
 WIND LOAD:
 A. 150 MPH AT 3 SECOND GUST, EXPOSURE B
 B. $I_w = 1.0$ WIND IMPORTANCE FACTOR
 C. B WIND EXPOSURE CATEGORY.
 D. $GCP_i = +/- 0.18$ INTERNAL PRESSURE COEFFICIENT.
 E1. $P_w = 54.2$ PSF (END ZONE) WALL COMPONENT & CLADDING LOAD.
 E2. $P_w = 43.9$ PSF (INTERIOR ZONE) WALL COMPONENT & CLADDING LOAD.
 F1. $P_r = 40.5$ PSF (INTERIOR ZONE) ROOF COMPONENT & CLADDING LOAD.
 F2. $P_r = 47.3$ PSF (END ZONE) ROOF COMPONENT & CLADDING LOAD.
 F3. $P_r = 47.3$ PSF (CORNER ZONE) ROOF COMPONENT & CLADDING LOAD.
 G1. OVERHANG = 68.6 PSF (SIDE ZONE)
 G2. OVERHANG = 68.6 PSF (CORNER ZONE)
 H. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE
 UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
 WALL HEIGHT: 96 1/4" MAX. SEISMIC DESIGN CATEGORY: C

HART HOUSING

1025 WATERFORD WAKARUSA IN 46573

1240



Elevation may depict options 2, 2050 and cost

Thermal Design Criteria (Insulation):

R-11 Floors; R-19 Walls; R-30 Min. Roof (Doors - U=.40 min.; Windows - U=.35 or better)

Building Site Installation Requirements:

The following items have not been completed by the building manufacturer, have not been inspected by the third party inspection agency, and are not certified by the state modular label and/or certification. Code compliance for these items must be determined at the local level:

- 1). The completed foundation support system and tie down and/or anchorage system.
- 2). Electrical service hookup (including any feeders or service wires/cables, or the Service Panel if not installed in factory).
- 3). Building drains, cleanouts, and hookups to plumbing system, or a portion thereof, and any/and/or all finish plumbing.
- 4). Ramps, stairs, and general means of access to the building.
- 5). Install R-6.5 insulation on all piping installed in unconditioned spaces.
- 6). HVAC system crossover ducts and/or entire HVAC systems or a portion thereof. (including but not limited to: below floor ducting, external heat pumps, A/C units, etc.)
- 7). Crawl space or basement light and switch.

Drawing Description Index	Page #	Drawing Description Index	Page #
Typical Elevations	1A, 1B	Cross Section Details	10A, 10B
Floor Plan	2	Ship Loose Window Protectors	11
Electrical Plan	3	Framing details	12A, B, C, D & E
Pressure System	4	Shearwalls	13A, 13B, 13C
Drain System	5, 6	Connection Details	14A, 15B
HVAC System	7, 8	Porch Framing Details	15
Off-Frame Foundation Plans	9A, 9B	Trusses	16
On-Frame Foundation Plans	9C, 9D, 9E	Calculation	17

P.E. Seal



3rd Party Stamp

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MAY 21 2007

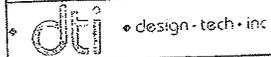


Additional Notes:

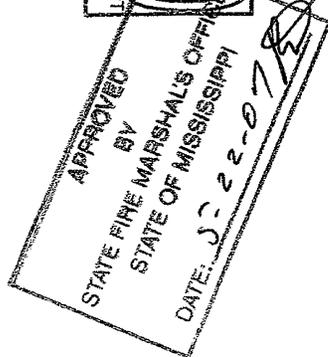
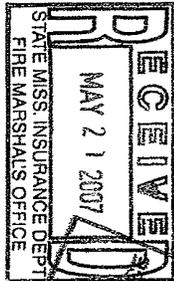
Typical foundation details provided of this drawing set. The design criteria herein is for this system only as shown. For other design deviations or special site requirements, consult a licensed Professional Engineer locally. If the foundation plans are designed by others, the designer of the building plans shall not be held responsible or liable for the foundation design and the consequential performance of the superstructure's structural components and systems related thereto.

Areas within hurricane prone regions within one mile of the coastal mean high water line w wind speed of 110 or greater or a basic wind speed of 120 mph or greater must have window protection installed on-site by others. Window protection must meet the requirements of the code and the "Large Missile Test".

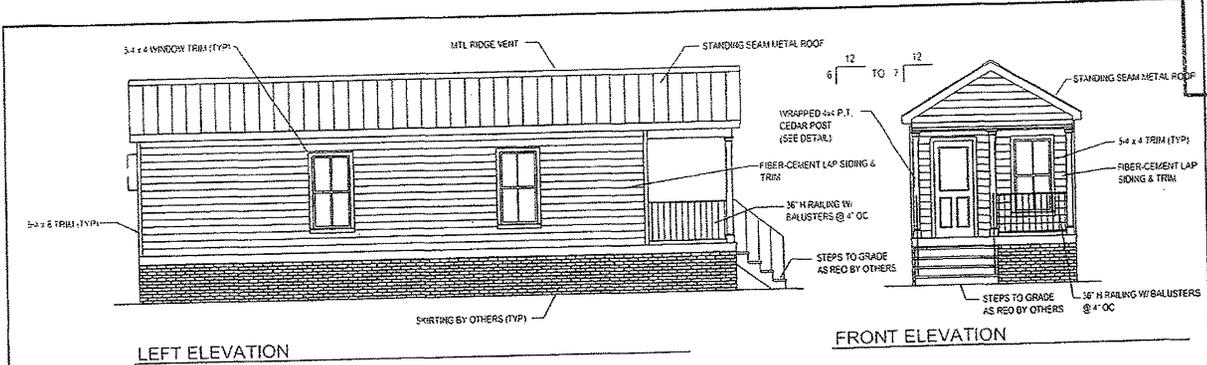
STRUCTURE NOT TO BE LOCATED IN FLOOD PLANE AREAS UNLESS A LOCAL P.E. DESIGNS FOUNDATION FOR SUCH AREAS.



Disclaimer: These drawings have been prepared and reviewed in accordance with all applicable codes. This drawing set is not intended to be all inclusive, nor does this set detail every code required aspect of this building. Compliance with all applicable codes per local authority having jurisdiction whether detailed in this set or not must be met. This document is developed based on information provided by State of Mississippi Emergency Management Agency (project # STMS012507).

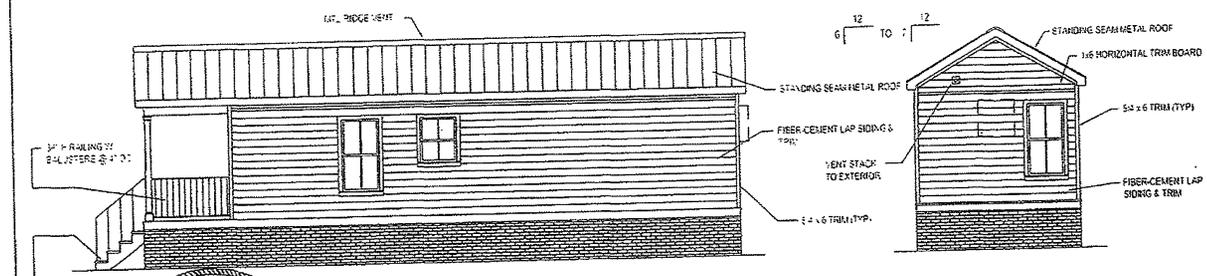


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LEFT ELEVATION

FRONT ELEVATION



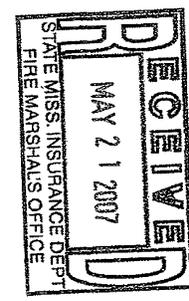
LEFT ELEVATION

REAR ELEVATION



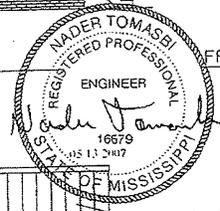
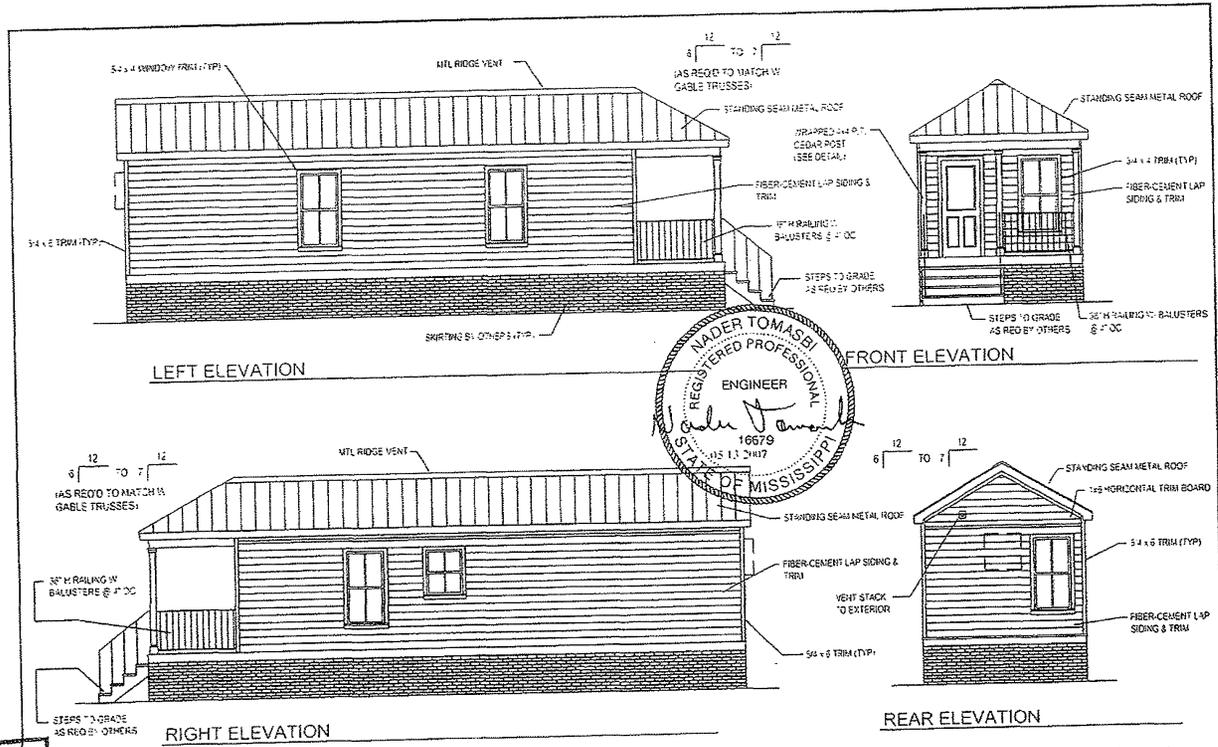
REQUIRED ATTIC VENTILATION 1:300 WITH VENTILATED RIDGE AND SOFFIT 1.32 SQ. FT.

Must install 7/16\"/>



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 MAY 21 2007
 NIA INC.

STMS012507 MS-MODULAR	Title: Elevations	Model No. 1240	Pg. 1A
Drawn By: . . . Date: . . .		Revised By: . . . Date: . . .	



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STMS012507
MS MODULAR

REQUIRED ATTIC VENTILATION 1:300 WITH VENTILATED RIDGE AND SOFFIT 1.32 SQ. FT.

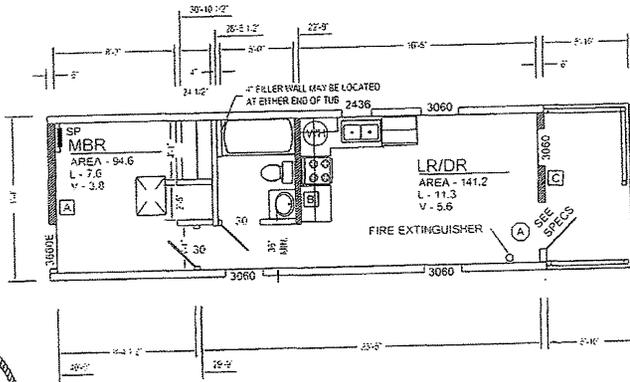
Must install 7/16" OSB or plywood, 24/0 rated sheathing under metal roof. Fasten sheathing to trusses with 7/16" x 1 1/2" x 15ga. staples or 0.131 x 2" nails 6" OC at edges and 12" OC field. Metal roof approval and installation must be provided by metal roof manufacturer for applied wind load (PE sealed) and is not part of this package.
NOTE: METAL ROOF CONSTRUCTION MAY REQUIRE THICKER ROOF SHEATHING.

Title: Hip Roof Elevations		Model No. 1240	Pg. 1B
Drawn By:	Date:	Revised By:	Date:

- A** TOTAL SHEAR LENGTH=88'
150 MPH EXP. 'B'=263 PLF
2-FLOOR #2 SYP JOIST UNDER SHEARWALL
- B** TOTAL SHEAR LENGTH=87'
150 MPH EXP. 'B'=508 PLF
5-FLOOR #2 SYP JOIST UNDER SHEARWALL
- C** TOTAL SHEAR LENGTH=75'
150 MPH EXP. 'B'=633 PLF
3-FLOOR #2 SYP JOIST
1-FLOOR #2 SYP PT JOIST UNDER SHEARWALL



MAY USE #2 SPF IN PLACE OF #2 SYP. NOT APPLICABLE TO FLOOR JOISTS AT PORCH AREAS.



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- (A) -36" MIN. DOOR WIDTH
- TOTAL WINDOW AREA - 68.90 SQ. FT.
- 'E' - INDICATES EGRESS WINDOW
- DATA PLATE LOCATION - KITCHEN BASE COVER
- STATE LABEL LOCATION - KITCHEN SINK BASE CABINET
- THIRD PARTY LOCATION - KITCHEN SINK BASE CABINET
- SECONDARY STATE LABEL LOCATION-MASTER BATH LAV CABINET

ALL WALLS 4 1/2" THICK UNLESS NOTED

22"X30" ATTIC ACCESS REQUIRED
WHEN CLEAR HEIGHT OF ATTIC EXCEEDS 30".

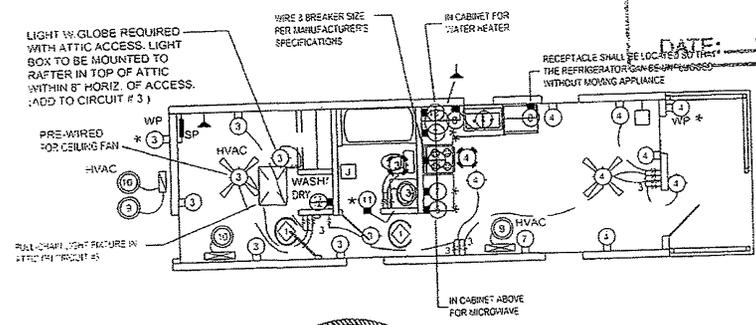
STMS012507 MS MODULAR	T.M.C. Floor Plan	Drawn By: . Revised By: .	Date: . Date: .	Model No. 1240	Pg. 2
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SYMBOLS X = CIRCUIT NUMBER

- ⊖ 15A RECEPT
- ⊖ MECHANICAL FAN
- ⊖ 20A RECEPT
- ⊖ J-BOX FOR ELECTRICAL CONNECTION
- ⊖ HVAC UNIT
- ⊖ OPEN LIGHT
- ⊖ HALOGENATED LIGHT
- ⊖ GFCI PROTECTED
- ⊖ SINGLE SWITCH
- ⊖ 3-WAY SWITCH
- ⊖ DOUBLE SWITCH
- ⊖ PHONE JACK
- ⊖ THERMOSTAT
- ⊖ SWITCH RMT
- ⊖ TV JACK
- ⊖ 2-DC SMOKE ALARM, ALL TO BE INTERCONNECTED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES
- ⊖ COMBINATION SMOKE ALARM AND CARBON MONOXIDE ALARM, TO BE INTERCONNECTED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES



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STATE OF MISSISSIPPI
DATE: 5-22-07 *[Signature]*



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NOTE:
ALL HOMES ARE BUILT TO MEET THE 2005 NATIONAL ELECTRICAL CODE

NOTES:
ALL SMOKE ALARMS W/ BATTERY BACK-UP TO BE INTERCONNECTED WITH A 14 GAUGE MIN. INTERCONNECTION WIRE OR EQUIVALENT PER MANUFACTURER'S RECOMMENDATIONS.

-BRKR./WIRE SIZES TO BE DETERMINED AND SUPPLIED ON-SITE BY OTHERS.
ALL BRANCH CIRCUITS SUPPLYING 15A AND 20A OUTLETS IN BEDROOMS ARE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 OF THE NEC.



SERVICE SIZE
125 AMPERE

CIRCUIT NO.	DESCRIPTION	WIRE SIZE	BREAKER SIZE
1	GENERAL LIGHTING	14-2 WGR.	15A-S. POLE
2	GARBAGE DISPOSAL	12-2 WGR.	20A-S. POLE
3	GENERAL LIGHTING	14-2 WGR.	15A-S. POLE
4	GENERAL LIGHTING	14-2 WGR.	15A-S. POLE
5	N/A	N/A	N/A
6	MICROWAVE	12-2 WGR.	20A-D. POLE
7	APPLIANCE CIRCUIT	12-2 WGR.	20A-S. POLE
8	APPLIANCE CIRCUIT	12-2 WGR.	20A-S. POLE
9	HVAC SYSTEM INSTALLED PER MANUFACTURER'S SPECS OR DESIGNED/INSTALLED BY OTHERS		
10			
11	BATH RECEPT CIRCUIT	12-2 WGR.	20A-S. POLE
12	WATER HEATER	10-2 WGR.	25A-S. POLE
13, 15	ELECTRIC VAD	10-3 WGR.	30A-S. POLE
14, 16	ELECTRIC RANGE	8-3 WGR.	20A-D. POLE

⊖ 22"X30" ATTIC ACCESS REQUIRED WHEN CLEAR HEIGHT OF ATTIC EXCEEDS 30".

STMS012507 <small>MS MODULAR</small>	Title: Electrical Plan	Drawn By: <i>[Signature]</i>	Date: .	Model No. 1240	Pg. 3
		Revised By: .	Date: .		

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STATE OF MISSISSIPPI
DATE: 5-22-07

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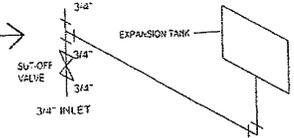
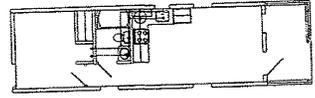
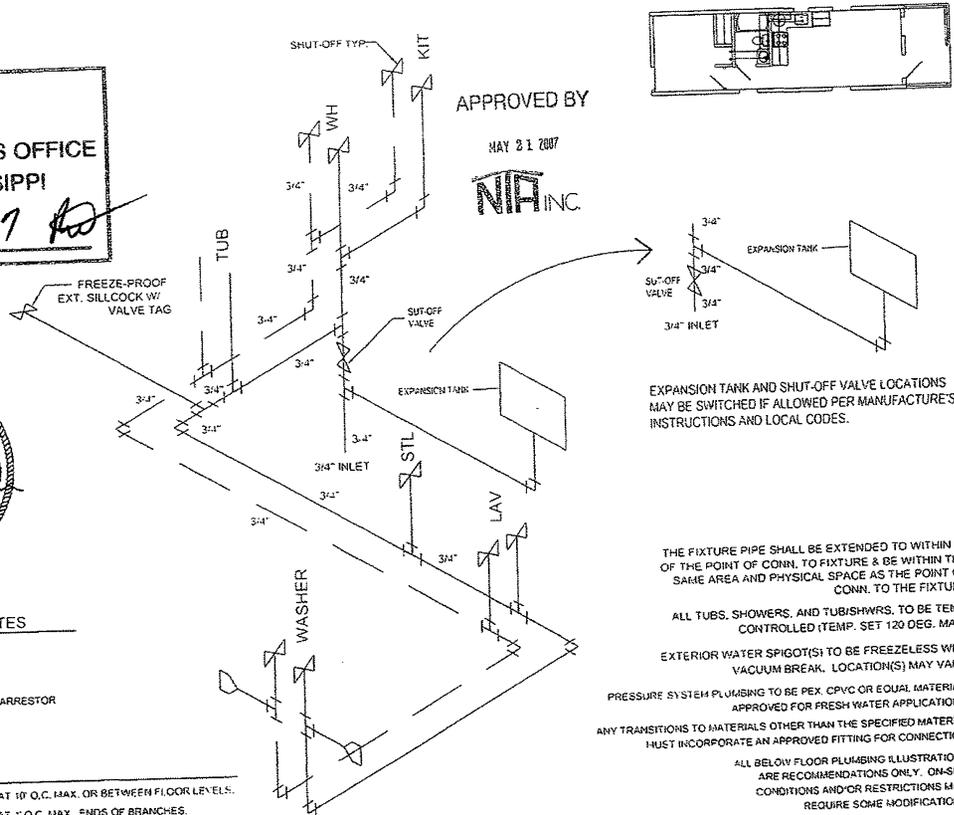


PRESSURE SYSTEM NOTES

- COLD LINE
 - HOT LINE
 - ⊗ SHUT-OFF VALVE
 - ⊕ MECHANICAL WATER HAMMER ARRESTOR
- ALL LINES 1/2" UNLESS NOTED
SEE FITTING CHART FOR INDEX

PIPE SUPPORT

- VERTICAL PIPING: SUPPORTS AT 10' O.C. MAX. OR BETWEEN FLOOR LEVELS.
- HORIZONTAL PIPING: SUPPORTS AT 4' O.C. MAX., ENDS OF BRANCHES, AND AT CHANGES IN ELEVATION AND/OR DIRECTION.



EXPANSION TANK AND SHUT-OFF VALVE LOCATIONS MAY BE SWITCHED IF ALLOWED PER MANUFACTURER'S INSTRUCTIONS AND LOCAL CODES.

THE FIXTURE PIPE SHALL BE EXTENDED TO WITHIN 12" OF THE POINT OF CONN. TO FIXTURE & BE WITHIN THE SAME AREA AND PHYSICAL SPACE AS THE POINT OF CONN. TO THE FIXTURE.

ALL TUBS, SHOWERS, AND TUB/SHOWERS, TO BE TEMP. CONTROLLED (TEMP. SET 120 DEG. MAX.)

EXTERIOR WATER SPIGOT(S) TO BE FREEZELESS WITH VACUUM BREAK. LOCATION(S) MAY VARY.

PRESSURE SYSTEM PLUMBING TO BE PEX, CPVC OR EQUAL MATERIAL, APPROVED FOR FRESH WATER APPLICATIONS.

ANY TRANSITIONS TO MATERIALS OTHER THAN THE SPECIFIED MATERIAL MUST INCORPORATE AN APPROVED FITTING FOR CONNECTION.

ALL BELOW FLOOR PLUMBING ILLUSTRATIONS ARE RECOMMENDATIONS ONLY. ON-SITE CONDITIONS AND/OR RESTRICTIONS MAY REQUIRE SOME MODIFICATIONS.

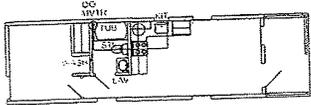
STMS012507

Title: Pressure System

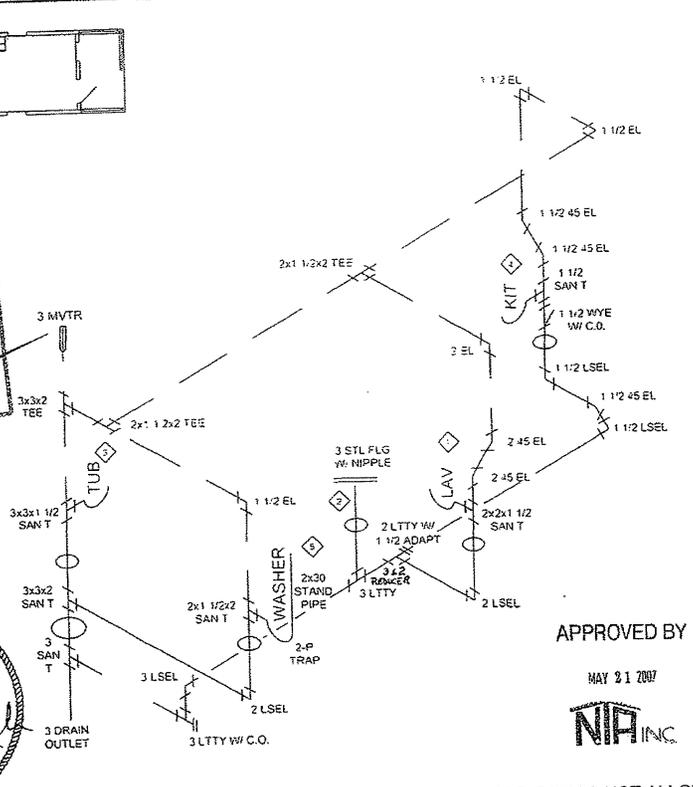
Drawn By: Date:
Revised By: Date:

Model No. 1240

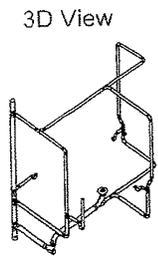
Pg. 4



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DATE: 5-22-07



- DRAIN DROPS**
- 1 MASTER BATH LAV
 - 2 MASTER BATH STOOL
 - 3 MASTER BATH TUB
 - 4 KIT SINK
 - 5 CLOTHES WASHER
- BELOW FLOOR DROPS
TO BE CONNECTED
ON-SITE BY OTHERS



APPROVED BY

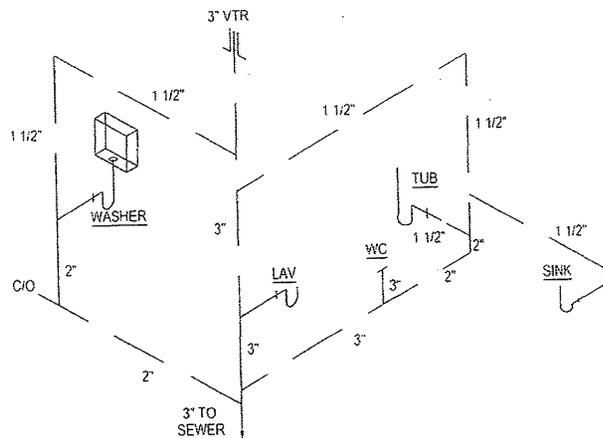
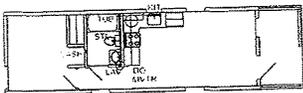
MAY 21 2007



- BELOW FLOOR DECKING
- BELOW FLOOR ASSEMBLY

FOR CODES NOT ALLOWING AIR ADMITTANCE VALVES
SEE PAGE 6 FOR ADDITIONAL NOTES, SPECS, DETAILS, ETC.

STMS012507 MS MODULAR	Title: Drain Line		Drawn By: . . .	Date: . . .	Model No. 1240	Pg. 5
			Revised By: . . .	Date: . . .		



ALTERNATE DRAIN SYSTEM WHEN TUB & FILLER WALL FLIPPED



DRAIN SYSTEM NOTES

- - BELOW FLOOR DECKING
- - BELOW FLOOR ASSEMBLY
- ALL BELOW FLOOR PLUMBING BY OTHERS
- ALL FITTINGS BELOW BOTTOM CAN BE SHIPPED LOOSE
- ALL BELOW FLOOR PLUMBING ILLUSTRATIONS ARE RECOMMENDATIONS ONLY. ON-SITE CONDITIONS AND/OR RESTRICTIONS MAY REQUIRE SCHEMATIC MODIFICATIONS.
- OPT. GARAGE DISPOSAL TO BE LOCATED ON KITCHEN SINK WASTE ASSEMBLY
- ALL VENTS THRU ROOF TO BE 3". 12" MIN. ABOVE AND BELOW ROOF PENETRATION
- ALL P-TRAPS TO BE 1 1/2 UNLESS NOTED
- HORIZONTAL VENT SLOPE - 1/8" PER FOOT
- HORIZONTAL DRAIN SLOPE - 1/4" PER FOOT
- DRAIN, WASTE, AND VENT PLUMBING TO BE ABS PLASTIC, OR EQUAL, APPROVED FOR DWV APPLICATIONS.
- ANY TRANSITIONS TO MATERIALS OTHER THAN THE SPECIFIED MATERIAL MUST INCORPORATE AN APPROVED FITTING FOR CONNECTION.
- ALL PLUMBING TO MEET OR EXCEED CURRENT ADOPTED PLUMBING CODES

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STATE OF MISSISSIPPI
DATE: 5-22-07

NOTCHES OR HOLES IN STUDS.

IN CONCEALED SPACES WHERE PIPING IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS LESS THAN 1 1/2" FROM EDGE FROM NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY SHIELD PLATES. PROTECTIVE SHIELD PLATES SHALL BE A MIN. OF 1/16" THICK STEEL. PLATES SHALL COVER AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED, AND SHALL EXTEND A MIN. OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES

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MAY 21 2007



HOLES IN JOISTS

HOLES IN JOISTS, OR SIMILAR MEMBER MUST BE 2" MIN. FROM EDGE PER IRC 502.8 AND 802.7.1

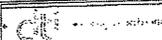
PIPE SUPPORT

- VERTICAL PIPING — SUPPORTS AT 10' O.C. MAX. OR BETWEEN FLOOR LEVELS.
- HORIZONTAL PIPING — SUPPORTS AT 4' O.C. MAX., ENDS OF BRANCHES AND AT CHANGES IN ELEVATION AND/OR DIRECTION.
- TRAP ARMS — SUPPORT LOCATED AS CLOSE TO TRAP AS POSSIBLE WHEN TRAP TO VENT EXCEEDS 3'.

SEE PAGE 5 FOR ADDITIONAL NOTES, SPECS, DETAILS, ETC.

STMS012507
MS MCLSA-04

Title: **Drain Line Notes**



Drawn By: . Date: .
Revised By: . Date: .

Model No. **1240**

Pg. **6**



REScheck Software Version 4.0.1
Compliance Certificate



Report Date: 04/19/07
 Data filename: N:\MOD001 INDIANA\RESCHECK\2R-24 Wdel1240MS.rck

Energy Code: 2003 IECC
 Location: Holly Springs (Marshall), Mississippi
 Construction Type: Single Family
 Glazing Area Percentage: 10%
 Heating Degree Days: 3714

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Assembly	Gross Area or Perimeter	Cavity R-Value	Comb. R-Value	Glazing of Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss:	387	30.0	0.0		14
Wall 1: Wood Frame, 16" o.c.:	728	19.0	0.0		38
Window 1: Metal Frame Double Pane with Low-E:	70			0.35	24.5
Door 1: Solid:	21			0.4	8.4
Floor 1: All-Wood Joist/Truss;Over Unconditioned Space:	387	11.0	0.0		28
Furnace 1: Forced Hot Air: 78 AFUE					
Air Conditioner 1: Electric Central Air: 13 SEER					

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2003 IECC requirements in REScheck Version 4.0.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Name - Title _____ Signature _____ Date _____

APPROVED BY

MAY 21 2007



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 STATE OF MISSISSIPPI
 DATE: 5-22-07

NOTES:
 FOUNDATION TO BE DESIGNED TO MEET THE NOTED LOADS
 FOUNDATION DESIGN & DETAILS MUST BE APPROVED BY LOCAL
 LICENSE ENGINEER-ARCHITECT.



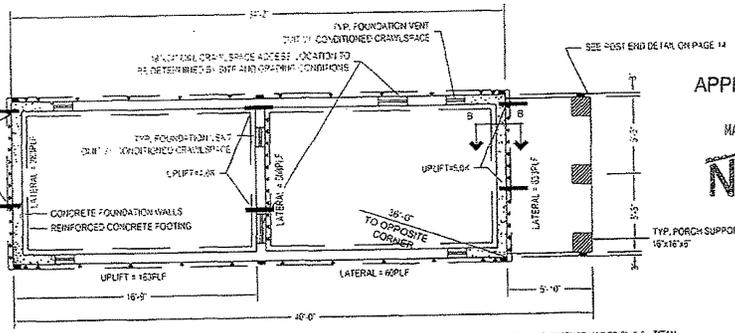
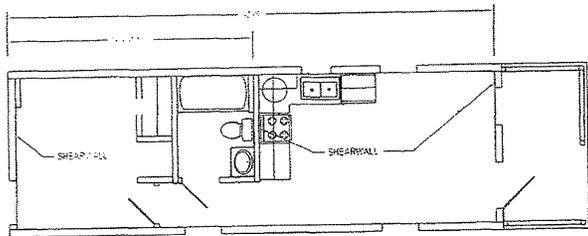
MAX. GROUND SNOW LOAD : 30 PSF
 MAX. WIND SPEED: 150 MPH
 WIND EXPOSURE: B
 MAX MEAN ROOF HEIGHT: 30'
 SEISMIC DESIGN CATEGORY: C

FOUNDATION BASE ON
 2000 PSF SOIL

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 BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 5-22-09 *KW*

OFF-FRAME FOUNDATION NOTES:

- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
- 2) FOR DEVIATIONS AND/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER AND/OR LOCAL BUILDING OFFICIAL.
- 3) SILL PLATE FASTENING TO BE PER INSTALLATION INSTRUCTION AND/OR LOCAL CODES. SILL FASTENING REQUIREMENT IS PER APPLICABLE WIND SPEED AND SEISMIC ZONES. SEE "CONCRETE" DATA PLATE FOR APPLICABLE ZONE S.
- 4) CONCRETE COMPRESSIVE STRENGTH (FCI): 3070 PSI.



CRAWLSPACE VENTILATION REQUIRED: 7.68 SQ. FT.

- (2) INSTALL 1/8" X 1 1/2" HD NAILS @ 8" O.C. TYP.
- SINKS WITH PLATE, FASTEN TO SILL PLATE AND RUN (2) 1/8" X 1 1/2" HD NAILS @ 8" PER EACH MEMBER

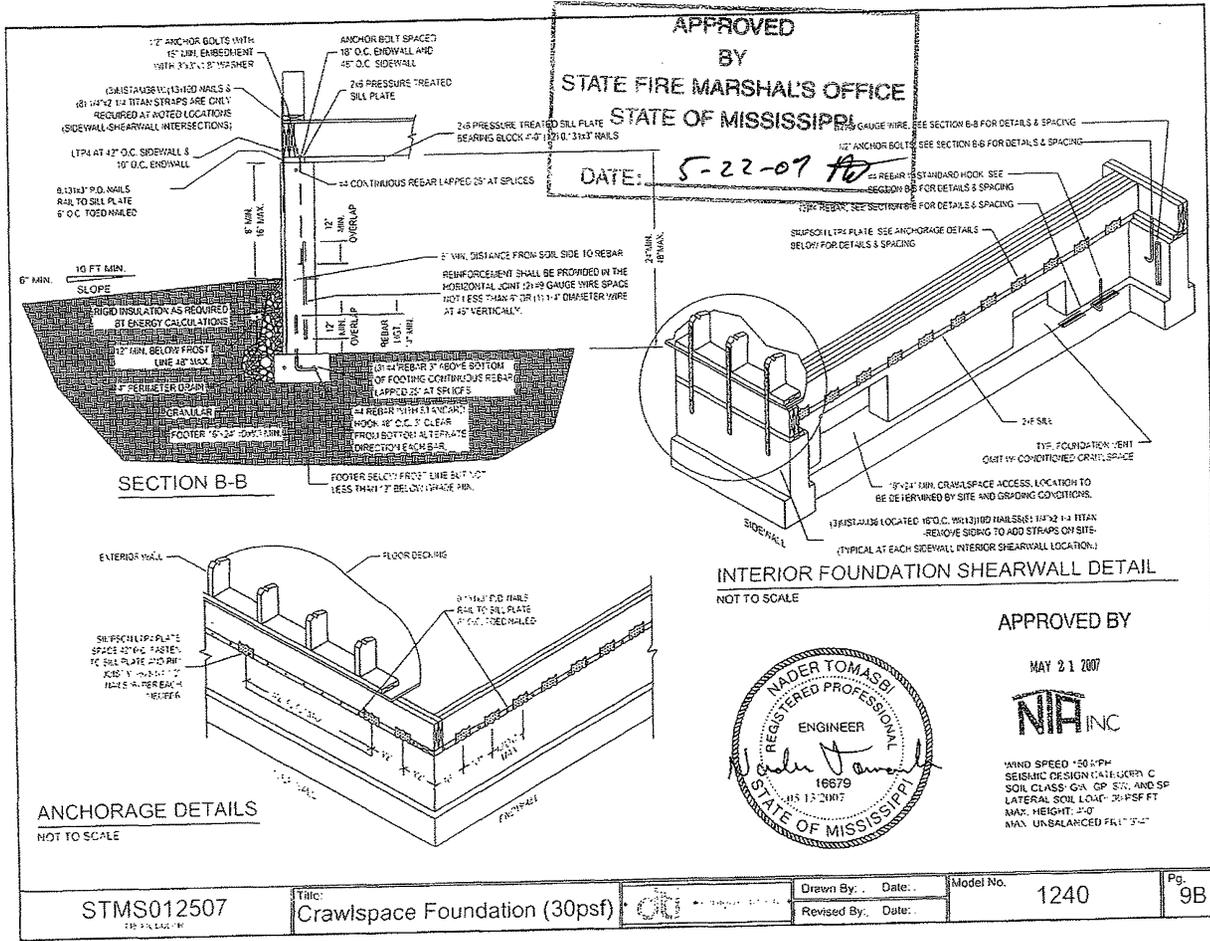
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MAY 21 2007



NOTE: SEE PAGE 9B
 FOR ADDITIONAL
 FOUNDATION INFORMATION

STMS012507 MS MODULAR	Title: Crawlspace Foundation (30psf)		Drawn By: . Date: . Revised By: . Date: .	Model No. 1240	Pg. 9A
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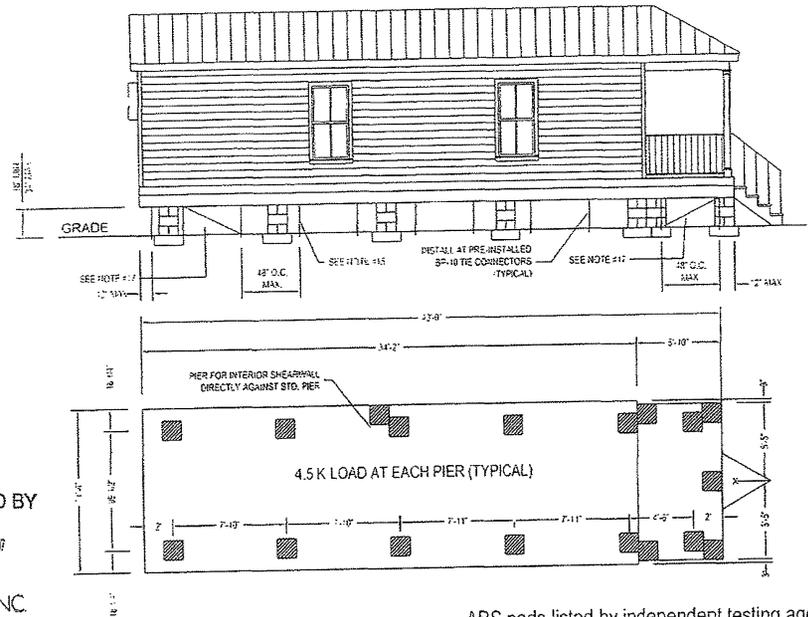


MAX. GROUND SNOW LOAD : 30 PSF
 MAX. WIND SPEED: 150 MPH
 WIND EXPOSURE: B
 MAX MEAN ROOF HEIGHT: 30'
 SEISMIC DESIGN CATEGORY: C
 FOUNDATION BASE ON
 2000 PSF SOIL



FOOTING SIZE BASED ON 2000 PSF	
FOOTING SIZE (IN)	SIZE MAX. LOAD (KLS)
10" x 10" x 12"	3.3K

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 BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 5-22-07



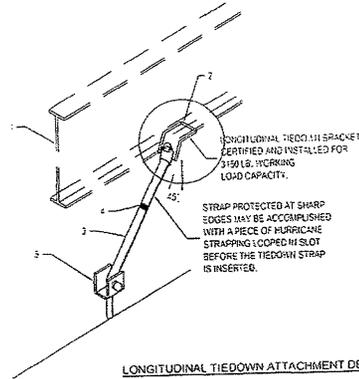
ABS pads listed by independent testing agency may be used if the rated capacity is in excess of noted pier loads, properly approved for the site conditions and is acceptable to the Local Authority Having Jurisdiction"

NOTE: SEE PAGE 9D FOR ADDITIONAL FOUNDATION INFORMATION

STMS012507 SIS MODULAR	Title: TEMP. FOUNDATION REQ	Drawn By: . Date: . Revised By: . Date: .	Model No. 1240	Pg. 9C
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NOTES:

1. ALL ORGANIC AND DECAYABLE MATERIAL, SUCH AS GRASS, ROOTS, SCRAP WOOD MUST BE REMOVED BELOW THE HOME.
2. THE SITE SHALL BE PROPERLY GRADED TO PERMIT WATER TO DRAIN AWAY FROM THE HOME.
3. 6-MIL POLYETHYLENE SHEETING VAPOR BARRIER MUST BE INSTALLED COVERING THE ENTIRE AREA BENEATH THE HOME. THE SHEETING SHALL OVERLAP AT LEAST 6" AT ALL JOINTS.
4. THE FOOTING MUST BE PRE-CAST OR POUR-IN-PLACE CONCRETE AT LEAST 6" THICK OR DESIGNED BY A REGISTERED ENGINEER FOR THE LOCAL SOIL CONDITIONS.
5. PIERS TO BE DOUBLE 8"x16" BLOCK, MORTAR OR EXTERIOR STRUCTURAL COATING WHEN REQUIRED BY LOCAL OFFICIALS' CODES.
6. THE PIER SHALL BE CAPPED WITH 2" MAXIMUM HIGH CONCRETE OR WOOD CAP BLOCKS AND 4"x8" HARDWOOD SHIMS TO LEVEL THE HOME. THE SHIMS SHALL COVER THE ENTIRE WIDTH OF THE CAP BLOCKS AND USED IN PAIRS AND DRIVEN TIGHTLY SO THEY DO NOT OCCUPY MORE THAN ONE INCH OF VERTICAL SPACE.
7. THE PIER SHALL BE SPACED A MAXIMUM OF 2 FEET FROM EACH END OF HOME AND A MAXIMUM OF 8 FEET ON CENTER.
8. ADDITIONAL PIERS SHALL BE LOCATED UNDER THE POSTS.
9. THE ANCHOR STRAP SHALL BE A MINIMUM TYPE 1, FINISH B, GRADE ONE STEEL STRAPPING, 1 1/4" WIDE AND 0.035 INCHES THICK CERTIFIED BY A REGISTER ENGINEER CONFORMING WITH ASTM STANDARD D3953.01.
10. THE GROUND ANCHORS MUST HAVE A MINIMUM DESIGN CAPACITY FOR THE SOILS INTENDED OF 3150# CERTIFIED BY A REGISTERED ENGINEER.
11. THE GROUND ANCHORS MUST BE INSTALLED PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.
12. THE TIE-DOWN STRAPS MUST BE PRETENSIONED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
13. ALL GROUND ANCHORS MUST BE LOCATED 12" ABOVE THE WATER TABLE.
14. ALL GROUND ANCHORS MUST BE INSTALLED BELOW THE FROST LINE.
15. VERTICAL AND DIAGONAL TIES 12" FROM PORCH END AND 4'-0" O.C. AND IN-LINE WITH DIAGONAL TIES.
16. ADDITIONAL VERTICAL TIES SHALL BE LOCATED AT INTERIOR SHEARWALL LOCATIONS.
17. LONGITUDINAL TIES AT EACH I-BEAM EACH END.



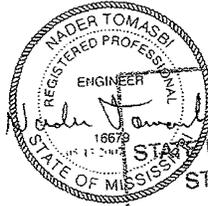
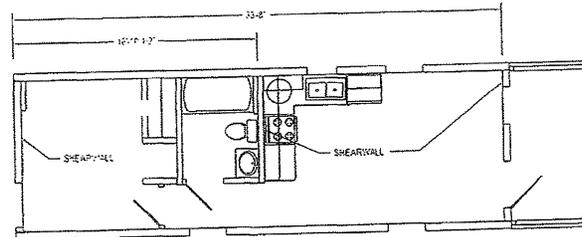
LONGITUDINAL TIEDOWN ATTACHMENT DETAIL

1. TYPICAL LONGITUDINAL I-BEAM
2. FACTORY INSTALLED TIEDOWN BRACKET
3. LONGITUDINAL TIEDOWN STRAP
4. BANDING SEAL
5. GROUND ANCHOR-INSTALLED TO FULL DEPTH

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MAY 21 2007

NIA INC.



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 STATE OF MISSISSIPPI
 DATE: 5-22-07

STMS012507

Title: TEMP. FOUNDATION REQ

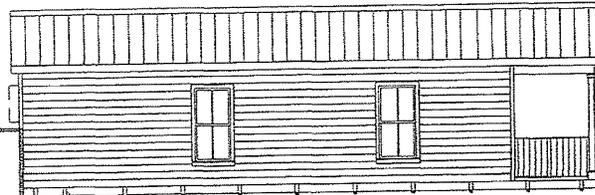
Drawn By: . Date: .
 Revised By: . Date: .

Model No. 1240

Pg. 9D

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STATE OF MISSISSIPPI

DATE: 5-22-07 *[Signature]*



INSTALL BR-10 TIE CONNECTOR BY BUILDING TECHNOLOGIES
FASTEN TO BOTTOM PLATE (NAIL) #8'S SCREWS) OR
1/4" GAL. BR-10 TIE BRACKET BY MASTERCRAFT
FASTEN TO BR-10: 5/16" 12" NAILS OR
5/16" 12" SCREWS) OR EQUIVALENT 48" O.C.

48" TYP.

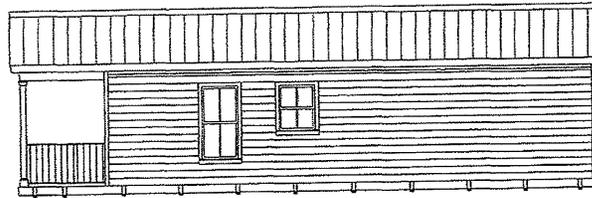
LEFT ELEVATION

NOTE:
1. MAY USE ANY OTHER EQUIVALENT METHODS FOR VERTICAL STRAPS.
2. CONNECTORS SHOWN ARE ONLY FOR TEMPORARY INSTALLS AND
MUST BE REMOVED FOR PERMANENT SET UP.

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RIGHT ELEVATION

TEMPORARY

STMS012507 <small>STATE OF MISSISSIPPI</small>	Title: Temporary Foundation Tie down Strapping		Drawn By:	Date:	Model No. 1240	Pg. 9E
			Revised By:	Date:		

2x LAYERS OF 1/2" FELT OR 1x LAYER OF 3/8" FELT UNDERLAMENT
OR APPROVED EQUAL WITH ICE DAM PROVISIONS AROUND PERIMETER

SHARPSH N254 EACH TRUSS

HOUSE WRAP TO EXTEND
TO TOP OF BOTTOM CHORD

2x2 BLOCK

5/8" FIBER CEMENT BOARD

2x2 SFF

1x FIBER CEMENT VENTURATED SFFIT

3/4" x 1/2" COVE TRIM

1x FIBER CEMENT BOARD TRIM

1/2" x 1" SCREW @ O.C. 1060

1/4" OR 1/2" x 6" PLYWOOD OR OSB
RATED SHEATHING ON SILL SHALL
TO ROOF AND NAIL TO FLOOR JOINTS

2x 24" BATT RUS FIBERGLASS INSULATION
OR BATTLES TO PROVIDE 1" AIR SPACE

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BY

STATE FIRE MARSHAL'S OFFICE

STATE OF MISSISSIPPI

DATE: 5-22-07 *HT*

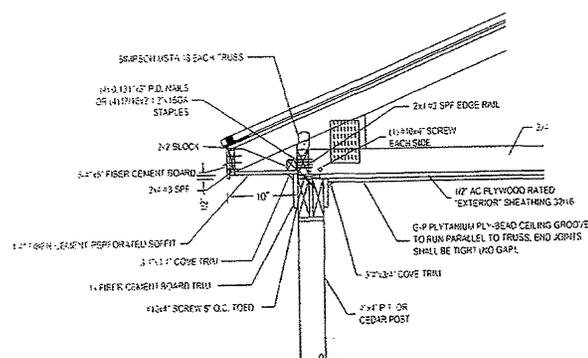
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STANDARD SIDEWALL OVERHANG

NOT TO SCALE



PORCH SIDEWALL OVERHANG

NOT TO SCALE

STMS012507

ME MODULAR

Title: Alternate Cross Section



Drawn By: Date: Revised By: Date:

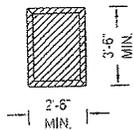
Model No. 1240

Pg. 10B

3x6" MAX. WINDOW SIZE x 54.2 PSF=975.2#
 SCREWS: 82x1.6x1" PENT. = 131#
 975.2/13=7.4 OR 8 SCREWS.

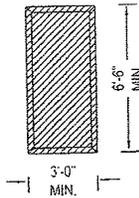
PERIMETER OF SMALLEST WINDOW (2x3x2x12-120"

120/8=15" O.C.



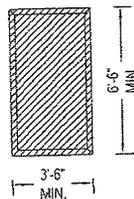
KITCHEN WINDOW

1-REQ.
 1x3 EDGES FRAMING
 SQUARE OR 45° CUT
 WITH 7/16" OSB COVERING
 MINIMUM



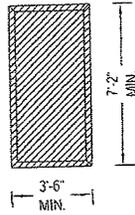
LIVING & DINING ROOM WINDOW

1-REQ.
 1x3 EDGES FRAMING
 SQUARE OR 45° CUT
 WITH 7/16" OSB COVERING
 MINIMUM



BEDROOM WINDOW

1-REQ.
 1x3 EDGES FRAMING
 SQUARE OR 45° CUT
 WITH 7/16" OSB COVERING
 MINIMUM



OPTIONAL FRONT DOOR

1-REQ.
 1x3 EDGES FRAMING
 SQUARE OR 45° CUT
 WITH 7/16" OSB COVERING
 MINIMUM



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 STATE OF MISSISSIPPI
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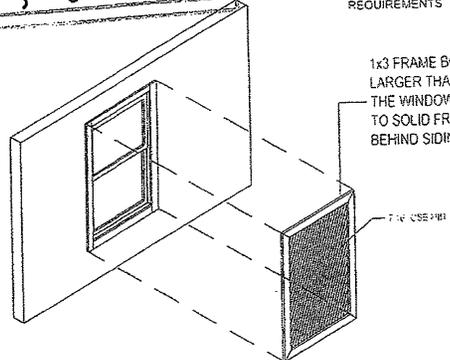
HOMES INSTALLED IN WIND-DEBRIS REGIONS MUST HAVE PROVISIONS TO PROTECT THE EXTERIOR GLAZING IN WINDOWS AND DOOR. LOCAL OFFICIAL MUST BE CONSULTED TO DETERMINE IF YOUR SPECIFIC AREA IS LOCATED IN WIND-DEBRIS REGIONS. THE PROTECTION FOR EXTERIOR GLAZING MAY BE PROVIDED.

A 7/16" MINIMUM APA RATED SHEATHING SHALL BE PROVIDED. SHEATHING SHALL BE PRECUT SO THEY SHALL BE ATTACHED TO THE FRAMING SURROUNDING THE OPENING CONTAINING THE PRODUCT WITH THE GLAZED OPENING. PANEL SHALL BE PREDRILLED AS REQUIRED FOR THE FASTENING AND ALL REQUIRED HARDWARE SHALL BE PROVIDED.

NOTE:
 PRE-ENGINEERED WINDOW/DOOR PROTECTORS MAY BE INSTALL ON-SITE BY OTHERS. (MUST MEET ALL STATE & LOCAL CODE REQUIREMENTS

1x3 FRAME BOARD INSIDE DIMENSION TO BE LARGER THAN OUTSIDE DIMENSION OF THE WINDOW FRAME AND FASTENED TO SOLID FRAMING MEMBER BEHIND SIDING.

USE #8 SCREWS (1" MIN. PENETRATION INTO RECEIVING MEMBER) 15" O.C. MAX.



WIND BORNE DEBRIS PROTECTION DETAIL

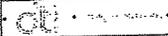
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STMS012507
ME MODEL-M

Title: Ship Loose Window Protectors

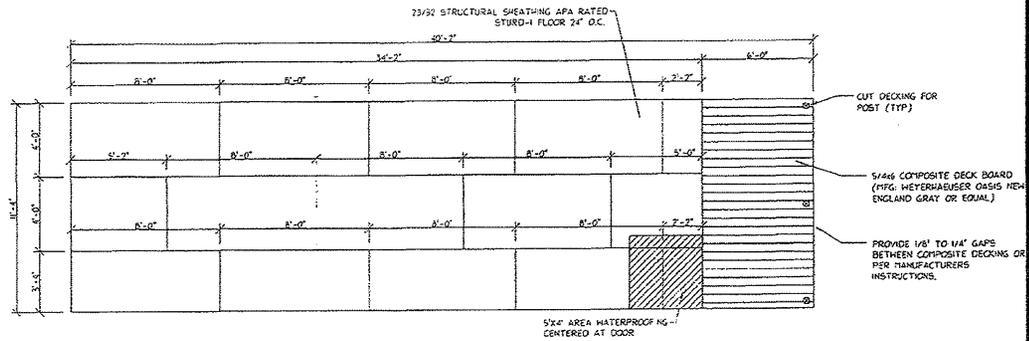


Drawn By: Date:
 Revised By: Date:

Model No.

1240

Pg. 11



FLOOR DECKING

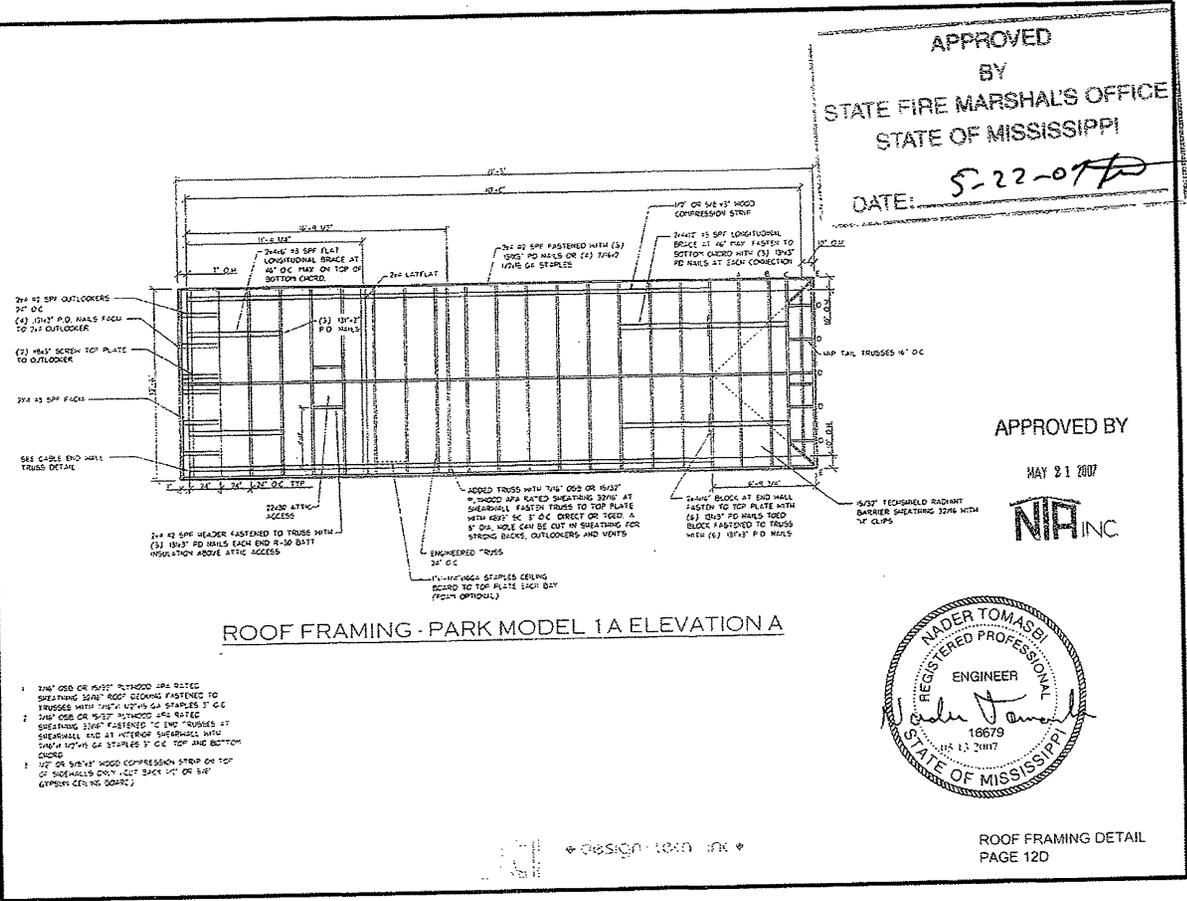
- FRAMING NOTES:
- 1 PERIMETER RAIL TO TRANSVERSE JOIST (5) 1 3/4\" P.D. NAILS
 - 2 PERIMETER SPLICE 4x4x2 GA CONNECTOR EACH SIDE OR EQUAL
 - 3 DOUBLE JOIST 1 3/4\" P.D. NAILS 2 ROWS 12\" O.C. STAGGERED.
 - 4 2x3/2 OSB OR PLYWOOD APA RATED STURD-I-FLOOR 24\" O.C.
 - 5 DECKING TO JOIST 7/16x1-3/4x1/8 GA STAPLE OR 00x2\" P.D. NAILS 6\" O.C. EDGE 8\" O.C. FIELD WITH 100% ADHESIVE.
 - 6 ADHESIVE REQUIRED ON TAG AND PERIMETER RAILS
 - 7 COMPOSITE DECK BOARD TO JOIST (2) #6x2\" SCREWS PER JOIST (COMPOSITE DECK BOARD TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS).
 - 8 BOTTOM BOARD (MFG.: SHEPARD PCD/LEFLY OR EQUAL) FASTENED WITH 7/16x1/8 GA STAPLES 4\" O.C.
 - 9 ALL FASTENERS AND CONNECTORS INTO TREATED LUMBER MUST BE STAINLESS STEEL OR GALVANIZED STEEL APPROVED FOR TREATED LUMBER.
 - 10 BOTTOM BOARD AND INSULATION NOT INSTALLED IN PORCH AREA
 - 11 MULTIPLE JOIST FASTENED TOGETHER WITH (2) ROWS OF 1 3/4\" P.D. NAILS, OR 7/16x2 1/2\" MEGA STAPLES 6\" O.C. WITH 100% ADHESIVE.
 - 12 ALL DECKING BEAMS MUST BE BANDED UNDER LINOLEUM OR TILE

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 STATE OF MISSISSIPPI
 DATE: 5-22-07

REGISTERED PROFESSIONAL ENGINEER
 NADER TOMASBI
 16679
 05-13-2407
 STATE OF MISSISSIPPI

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 MAY 21 2007
 NIA INC

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 BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 5-22-07

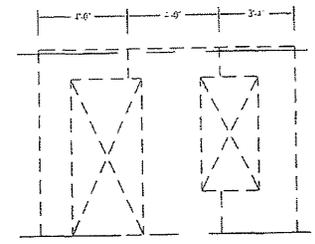
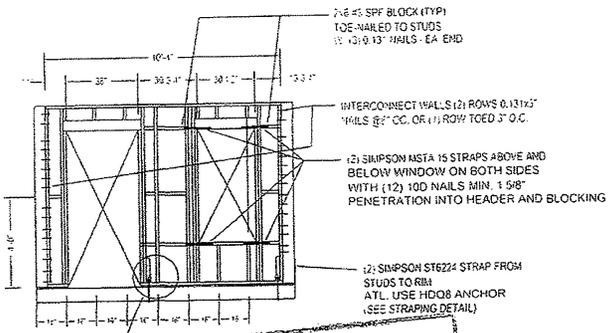


ROOF FRAMING - PARK MODEL 1A ELEVATION A

1. 2x4" OSB OR MUST BE 2x4" OSB RATED SHEARING 3240' ROOF DECKING FASTENED TO TRUSSES WITH 1 1/2" x 4" x 8" GA STAPLES 3' O.C.
2. 2x4" OSB OR MUST BE 2x4" OSB RATED SHEARING 3240' FASTENED TO END TRUSSES AT SHEARWALL AND AT INTERIOR SUBRAISED WITH 2x4" x 4" x 8" GA STAPLES 3' O.C. TOP AND BOTTOM CHORD
3. 1/2" OR 5/8" x 1/2" WOOD COMPRESSION STRIP ON TOP OF SHEARWALLS ONLY - CUT BACK 1" OR 3/4" (EXPOSED CEILING BOARD)

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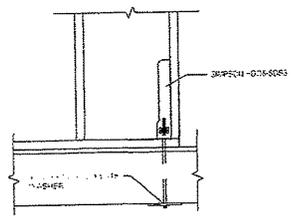




7/16\"/>

SEE THE DOWN DETAIL THIS PAGE

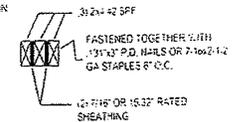
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 STATE OF MISSISSIPPI
 DATE: 5-22-07 *kw*



3/8\"/>

WALL FRAMING NOTES

1. FASTEN BOTTOM PLATE TO JOIST WITH 12D NAILS OR 8D X 3\"/>
2. FASTEN 1\"/>
3. 5\"/>
4. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH (2) 131X3\"/>
5. FASTEN DOUBLE TOP PLATES WITH 0.131 X 3\"/>
6. FASTENING OF SHEATHING TO PERIMETER FLOOR JOIST AND ROOF EDGE RAIL 7\"/>
7. FASTEN SHEATHING TO ENDWALLS AND WITHIN 3\"/>
8. HEADERS AND SILLS FASTEN TO STUD WITH (6) 131X3\"/>
9. MULTIPLE STUDS FASTEN ON TOGETHER WITH (3) 131 X 3\"/>
10. WALL TO WALLS FASTENED TOGETHER WITH (3) 131 X 3\"/>
11. STRAP EACH STUD TO RIM JOIST AT DOORS AND WINDOWS WITH 1 1/2 X 12\"/>
12. FASTENERS WITH (6) 7/16\"/>
13. HOUSE WRAP INSTALLED PER MANUFACTURERS INSTRUCTIONS.
14. EXTERIOR SIDING INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR HIGH WIND.
15. WINDOW S INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR DP RATING 33.51 MIN.
16. SPLICE BOTTOM PLATE AND LOWER TOP PLATE 3X6X26 GAUGE CONNECTOR PLATE EACH SIDE OR 12\"/>
17. FASTEN ENDWALL TO SIDEWALL TOP PLATES WITH 2X6X33 PLATE WITH (4) 130\"/>



3/2\"/>

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MAY 21 2007



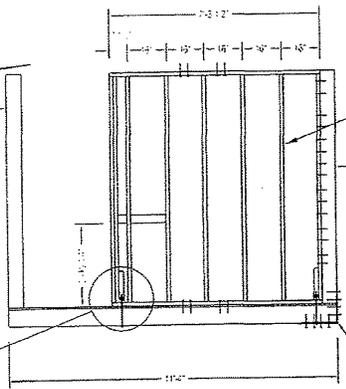
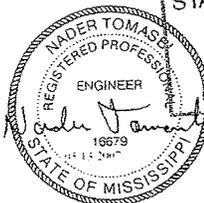
STMS012507 <small>REV. 11/04/07</small>	Title: Front Shearwall	Drawn By: .. Date: ..	Model No. 1240	Pg. 13A
		Revised By: .. Date: ..		

GENERAL NOTES

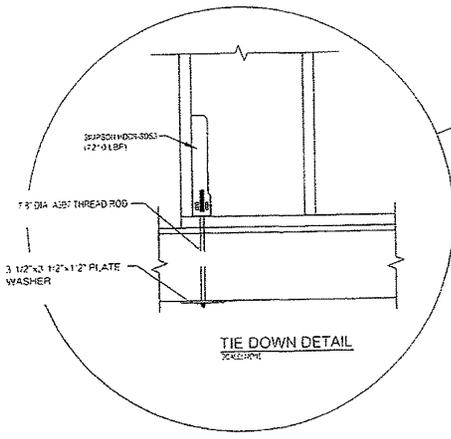
1. FASTEN HORIZONTAL JOIST AND JAIL TO CEILING WITH 2#4x3" SCREWS PER JOIST
2. FASTEN HORIZONTAL JOIST TO STUDS WITH 6x1 1/4" DRY WALL SCREWS OR
3. 1x6" DRY WALL NAILS AT EDGES 16" O.C. FIELD WITH 100% ADHESIVE
4. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH 1/2" x 1 1/2" P.D. NAILS OR 1 1/2" x 1 1/2" x 1/4" GAUGE STAPLES
5. HEADERS FASTEN TO STUDS WITH 1/2" x 1 1/2" P.D. NAILS OR 1 1/2" x 1 1/2" x 1/4" GAUGE STAPLES EACH MEMBER
6. WALL TOP NAILS FASTENED TOGETHER WITH 1 1/2" x 1 1/2" P.D. NAILS OR 1 1/2" x 1 1/2" x 1/4" GAUGE STAPLES

APA RATED SHEATHING WITH STUDS AT 16" O.C. OR 18" x 12" APA RATED SHEATHING ON JOIST WITH 1 1/2" x 1 1/2" NAILS AT 3" O.C. EDGE AND 6" O.C. FIELD OR 15 GA STAPLES 2" x 1 1/2" x 1/4" GAUGE STAPLES AT PANEL EDGES SHEARWALL JOINTS STUDS PER JOIST ONE 1 1/2" x 1 1/2" OR STAPLES, PANEL FORCE 500 PL.

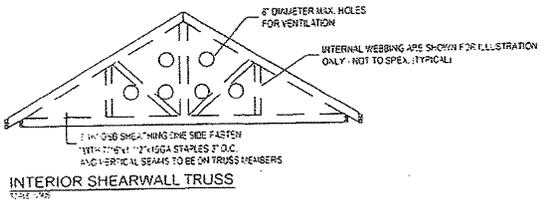
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STATE OF MISSISSIPPI
DATE: 5-22-07 *FW*



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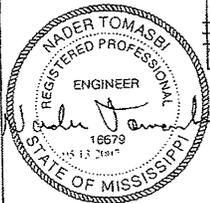
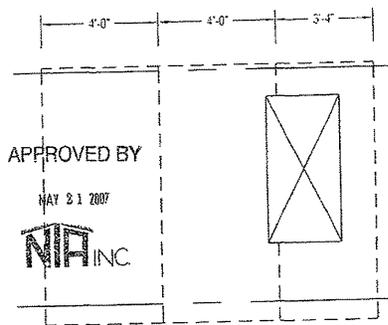
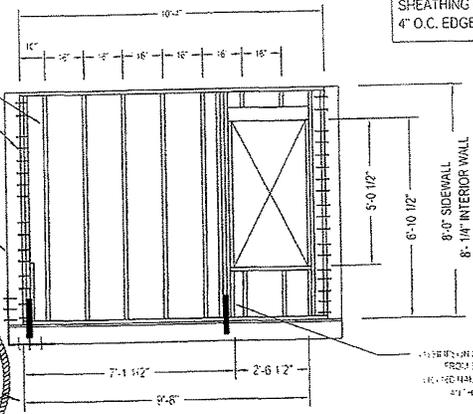


SIMPSON CAST-IN STRAP (1 1/2" x 1 1/2" x 1/2" NAILS EACH END, 45" MIN. LENGTH EACH END OF JOIST WRAP AROUND BAND JOIST TO ANCHOR (S138 LBF)



7/16" OSB APA RATED SHEATHING WITH STUDS AT 16" O.C. OR 15/32 PLYWOOD RATED SHEATHING WITH 0.131x3" NAILS AT 6" O.C. EDGE AND 6" O.C. FIELD OR 15 GAUGE STAPLES AT 4" O.C. EDGE AND 8" O.C. FIELD. SHEARWALL PANEL FORCE IS 276 PLF.

2x6 #3 SPF STUDS AT 16" O.C.
 0.131x3 1/2" TOE NAILS 3" O.C. (1 1/2" MIN. PENETRATION)
 DOUBLE 2x6 IN SIDEWALL

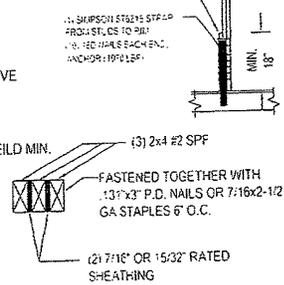


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 STATE OF MISSISSIPPI
 DATE: 5-22-07

WALL FRAMING NOTES:

1. FASTEN BOTTOM PLATE TO JOIST WITH .131x3" NAILS OR #8x3" SCREWS AT 3" O.C. (16 PER BAY)
2. FASTEN 1/2" DRYWALL TO STUDS WITH #6 X 1 1/4" DRY WALL SCREWS OR 1 5/8" DRYWALL NAILS 8" O.C. EDGES 16" O.C. FIELD WITH 80% ADHESIVE
3. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH (3) .131X3" P.D. NAILS OR (4) 7/16 X 2 1/2 X 15 GAUGE STAPLES
4. FASTEN DOUBLE TOP PLATES WITH 0.131 X 3" P.D. NAILS 6" O.C. OR 7/16 X 2 1/2 X 15 GAUGE STAPLES 4" O.C.
5. FASTENING OF SHEATHING TO PERIMETER FLOOR JOIST AND ROOF EDGE RAIL 7/16 X 1 1/2 X 15 GAUGE STAPLES 3" O.C.
6. FASTEN SHEATHING TO ENDWALLS AND WITHIN 4" OF CORNER ON SIDE WALLS WITH 7/16 X 2 1/2 X 15 GAUGE STAPLES 3" O.C. EDGE, 6" O.C. FEILD MIN.
7. HEADERS AND SILLS FASTEN TO STUD WITH (5) .131X3" P.D. NAILS OR (7) 7/16 X 2 1/2 X 15 GAUGE STAPLES EACH AND EACH MEMBER.
8. MULTIPLE STUDS FASTEN ON TOGETHER WITH .131 X 3" P.D. NAILS OR 7/16 X 2 1/2 X 15 GAUGE STAPLE 2" O.C. OR #8x3" SCREW
9. WALL TO WALLS FASTENED TOGETHER WITH .131 X 3" P.D. NAILS OR #8 X 3" SC. 10" O.C.
10. STRAP EACH STUD TO RIM JOIST AT DOORS AND WINDOWS WITH 1 1/2 X 12" X 26 GAUGE. STRAP FASTENERS WITH (8) 7/16 X 1 PEN X 15 GA STAPELS OR (6) .120 X 1 1/2 P.D. NAIL EACH END.
11. HOUSE WRAP INSTALLED PER MANUFACTURERS INSTRUCTIONS.
12. EXTERIOR SIDING INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR HIGH WIND
13. WINDOWS INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR DP RATING 52.5 MIN.
14. SPLICE BOTTOM PLATE AND LOWER TOP PLATE 3X5X26 GAUGE CONNECTOR PLATE EACH SIDE OR 12" 2x6 BLOCK.
15. FASTEN ENDWALL TO SIDEWALL TOP PLATES WITH 3"x6"x.035 PLATE WITH (4) .13x3" NAILS EACH SIDE EQUAL.

STUDS WILL BE UNDER WINDOW



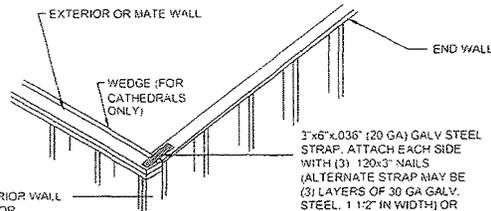
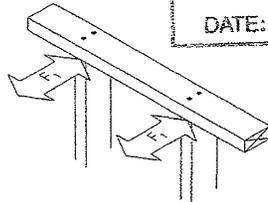
HEADER SECTION
 SCALE: NONE

STMS012507	Title: Rear Shearwall	Drawn By: . Date: .	Sheet No. 1240	Pg. 13C
		Revised By: . Date: .		

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STATE OF MISSISSIPPI
DATE: 5-22-07 *h*

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ATTACH INTERIOR WALL TO INTERIOR OR EXTERIOR WALL WITH .131X3" NAILS OR #8X3" SCREWS AT 16" O.C

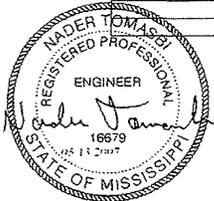
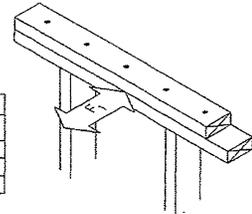
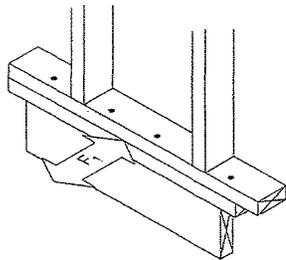
3"x6"x.036" (20 GA) GALV STEEL STRAP. ATTACH EACH SIDE WITH (3) 120x3" NAILS (ALTERNATE STRAP MAY BE (3) LAYERS OF 30 GA GALV. STEEL, 1 1/2" IN WIDTH) OR 3x5 GN. APPLIED WITH NO BOUNCE HAMMER

EXTERIOR WALL OR MATE WALL

SCALE: 1/2"=1'-0"

CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STRAP SIZE)	QUANTITY PER CONNECTION OR SPACING
STUD SPACING = 16" O.C.	3"x6"x.036" GALV. STRAP	1
	2 1/2"x.15 GA. STAPLE	4

CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STRAP SIZE)	QUANTITY PER CONNECTION OR SPACING
	3"x6"x.036" GALV. STRAP	1
	2 1/2"x.15 GA. STAPLE	4

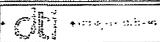


CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STRAP SIZE)	QUANTITY PER CONNECTION OR SPACING
STUD SPACING = 16" O.C.	#8X3" SCREW	3 PER BAY
	3"x6"x.036" GALV. STRAP	1 PER BAY
	2 1/2"x.15 GA. STAPLE	4 PER BAY

CONNECTION	PARAMETERS	QUANTITY PER CONNECTION OR SPACING
	3"x6"x.036" GALV. STRAP	1
	2 1/2"x.15 GA. STAPLE	4
	3"x6"x.036" GALV. STRAP	1
	2 1/2"x.15 GA. STAPLE	4

STMS012507
SIS MODULAR

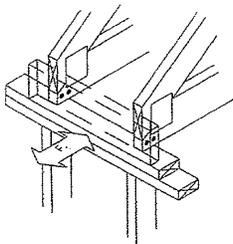
Title: Connection Details



Drawn By: Date: Revised By: Date:

Model No. 1240

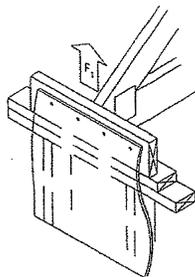
Pg. 14A



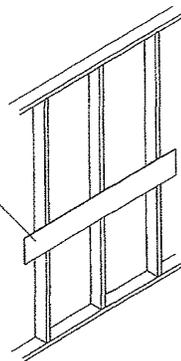
APPROVED
BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 5-22-07 *[Signature]*

ALTERNATE CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
TRUSS SPACING = 24" O.C.	#10d ⁴ SCREW	1 EACH SIDE OF TRUSS TO TOP PLATE
	#10d ⁴ SCREW	FROM RAIL TO TOP PLATE EVERY 2'

CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
TRUSS SPACING = 12" O.C.	2"x6"x1/2" P.D. NAIL	1
	2"x6"x1/2" P.D. NAIL	2 AT EXTERIOR & 3 AT INTERIOR OF CORNERS



CONTINUOUS GALVALUM BELTRAIL SURFACE COATED
TABLE FOR EXTERIOR AND INTERIOR USES -
(MAY BE FULL MT. EXTERIOR)



BELTRAIL DETAIL

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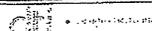
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CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
SHEATHING TYPE: 1502' APA RATED PLYWOOD OR OSB	2"x6" 15" P.D. NAIL	2" O.C.
	1 1/2"x 2 1/2" GA. STAPLE	2" O.C.
	1 1/2"x 2 1/2" GA. STAPLE	2" O.C.

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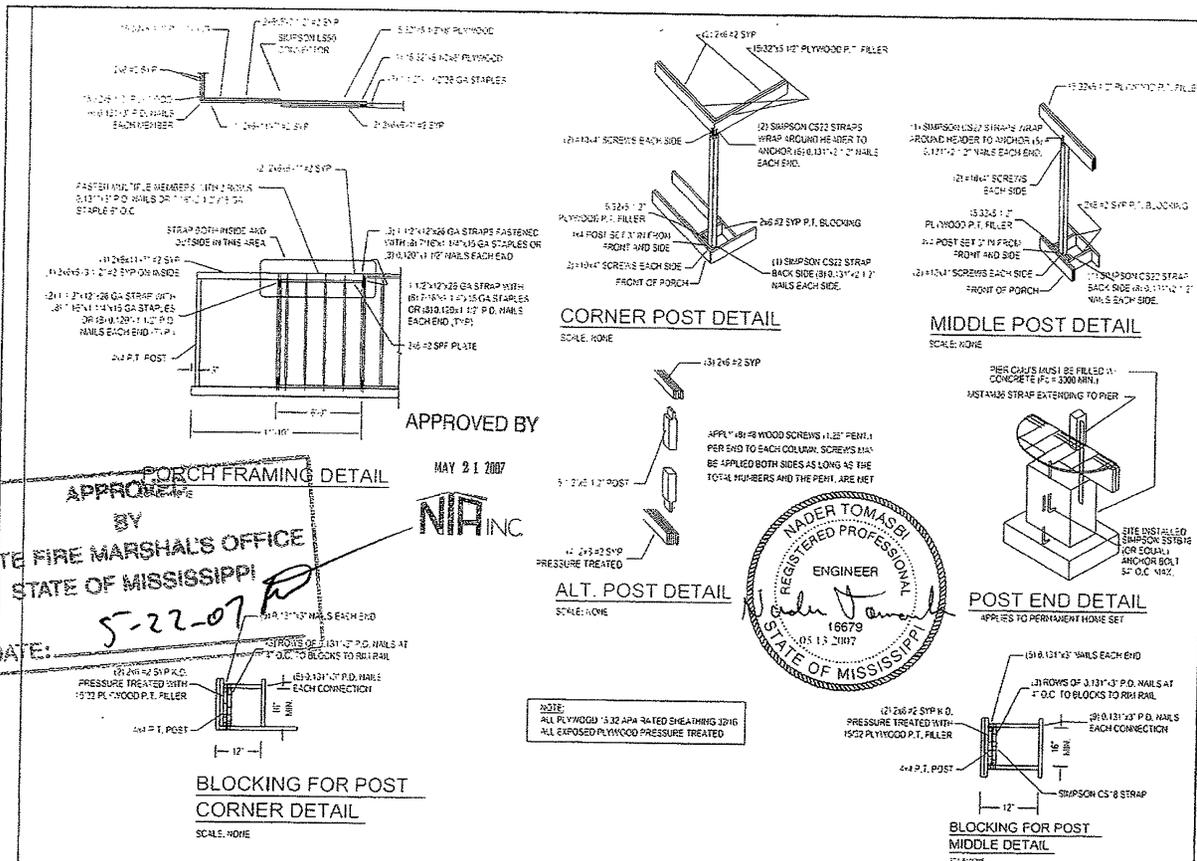
Title: **Connection Details**



Drawn By: . Date: .
Revised By: . Date: .

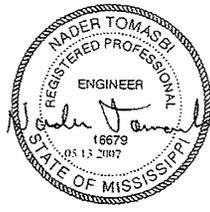
Model No. **1240**

Pg. **14B**



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 STATE OF MISSISSIPPI
 DATE: 5-22-07

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 NIA INC.



STMS012507

Title: Porch Framing Details

Drawn By: Date: Revised By: Date:

Model No. 1240

Pg. 15

Job 41566	Truss P703402	Truss Type COMMON	Qty 1	Ply 1	HART HOUSING 370
Universal Forest Products Inc., Grand Rapids, MI 49525, PTM 6.500 s Dec 14 2006 MiTek Industries, Inc. Thu May 17 12:21:50 2007 Page 1					

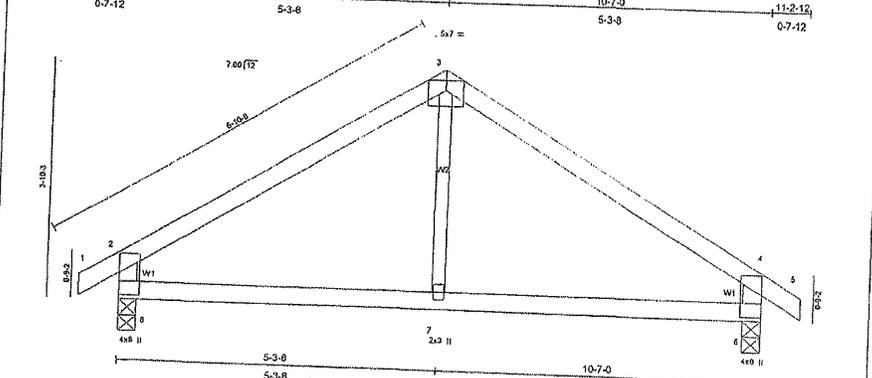


Plate Offsets (X, Y): (8 Edge, D-3-8)										
LOADING (psf)		SPACING		CSI		DEFL		PLATES		GRIP
TCLL	23.1	Plates Increase	2-0-0	TC	0.43	in (loc)	Wdth	L/d	MT20	197/144
(Ground Snow = 30.0)	10.0	Lumber Increase	1.15	BC	0.37	Ver(TL)	6-7	>999		
BCLL	10.0	Rep Stress Incr	YES	WB	0.21	Ver(TL)	6-7	>999		
BCDL	10.0	Code	IBC2003/TP12002	(Matrix)		Horz(TL)	-0.01	6	n/a	n/a
Weight: 31 lb										

LUMBER		BRACING	
TOP CHORD	2 X 4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 on purlins, except end verticals.
BOT CHORD	2 X 4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 7-5-15 cc bracing.
WEBS	2 X 4 SPF No.2 *Except* W2 2 X 3 SPF Stud		

REACTIONS	
(lb/size)	8=505/0-3-8, 6=505/0-3-8
Max Horz	8=154(LC 8)
Max Uplift	8=448(LC 8), 6=381(LC 9)
Max Grav	8=681(LC 17), 6=681(LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=694/667, 3-4=694/667, 4-5=0/45, 2-8=569/674, 4-6=669/674
BOT CHORD	7-8=599/508, 6-7=699/508
WEBS	3-7=534/202

- NOTES**
- 1) Wind: ASCE 7-02; 150mph; h=30ft; TCCL=6.0psf; BCDL=6.0psf; Category II; Exp B; enclosed; MWFRS and C-C Interior(1) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - 2) TCCL: ASCE 7-02; Pg=30.0 psf (ground snow); Ps=23.1 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.1
 - 3) Roof design snow load has been reduced to account for slope.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 17.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed as per IBC Sect. 1605.3.1.1 Load reduction, for multiple live loads.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 448 lb uplift at joint 8 and 361 lb uplift at joint 6.
 - 9) This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSITPI 1.
 - 10) This truss has been designed to meet the 2003 IBC Section 2308.10.7.1; 2003 IRC R802.10.2
 - 11) This truss has been designed to meet MHCS, Sec. 3280.303, 3280.304, 3280.305.
 - 12) Based on P703401 - Ravision; shortened overhangs from 0-9-4.



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WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.3 of TPIH-2002. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing is to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult IBC 1601 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WFOA, 6350 Enterprise Ln, Madison, WI 53719. J:\Support\MiTek\Support\press\up\top copyright 2006 by Universal Forest Products, Inc.

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STATE OF MISSISSIPPI
DATE: 5-22-07

Job 41566	Truss P703302	Truss Type COMMON	Qty 1	Ply 1	HART HOUSING 370
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Universal Forest Products Inc., Grand Rapids, MI 49525, PTM 6.500 s Dec 14 2006 MITek Industries, Inc. Thu May 17 12:59:29 2007 Page 1

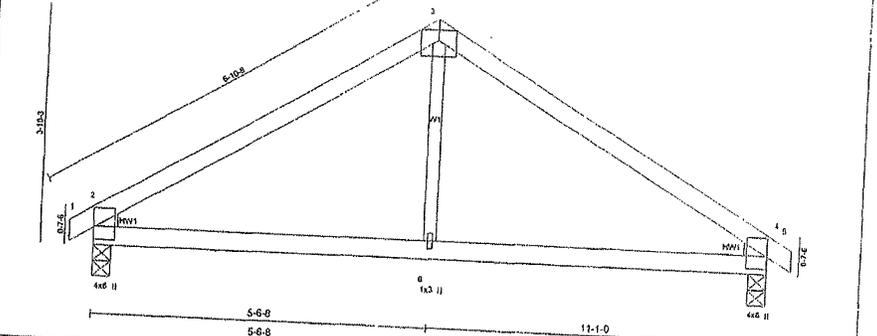


Plate Offsets (X,Y)	(2,0-2,0-0-0-4) (4,0-2,8,0-0-4)
LOADING (psf)	23.1
TCLL (Ground Snow=30.0)	
TCLL	10.0
BCLL	10.0
BCDL	10.0

LUMBER	TOP CHORD BOT CHORD WEBS WEDGES	2 X 4 SPF No.2 2 X 4 SPF No.2 2 X 3 SPF Stud 2 X 3 SPF Stud, Right; 2 X 3 SPF Stud	SPACING Plates Increase Lumber Increase Rep Stress Infr Code	2-0-0 1.15 1.15 YES IBC2003/TP12002	CSI TC BC WB (None)	0.41 0.47 0.18	DEFL Vert(LL) Vert(TL) Horz(TL)	in (loc) -0.05 -0.09 0.01	Ude# 4-8 2-6 4	L/d >899 >869 180	PLATES MT20	GRIP 197/144
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REACTIONS	(lb/size)	2=513/0-3-8, 4=513/0-3-8 Max Horz Max Uplift Max Grav	2=183(LC 8) 4=196(LC 10) 4=684(LC 17)
FORCES (lb)	TOP CHORD BOT CHORD WEBS	1-2=80, 2-3=798/332, 3-4=798/332, 4-5=80 2-6=154/583, 4-6=154/583 3-6=0/284	Maximum Compression/Minimum Tension

NOTES

- 1) Wind: ASCE 7-02; 150mph; h=30ft; TCDF=6.0psf; BCDF=5.0psf; Category II; Exp B; enclosed; MWFRS and C-C Interior(1) zone. Lumber DOL=1.80 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) TCLL: ASCE 7-02; Pg=30.0 psf (ground snow); Ps=23.1 psf (roof snow); Category II; Exp B; Partially Exp.; Ct=1.1
- 3) Roof design snow load has been reduced to account for slope.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 17.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed as per IBC Sect. 1605.3.1.1 Load reduction, for multiple live loads.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 2 and 196 lb uplift at joint 4.
- 9) This truss is designed in accordance with the 2003 International Building Code section 2308.1 and referenced standard ANSI/TPI 1.
- 10) This truss has been designed to meet the 2003 IBC Section 2308.10.7.1; 2003 IRC R802.10.2
- 11) This truss has been designed to meet MHCCSS, Sec. 3280.303, 3280.304, 3280.305.
- 12) Based on P703301 - Revision; shortened overhangs from 0-6-4.



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NIA INC.

WARNING - Verify design parameters and READ NOTES

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.3 of TPI-2002. This design is based only upon parameters shown, and is for individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication quality control, storage, delivery, erection and bracing, consult BCSI 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCOA, 8500 Enterprise Ln., Madison, WI 53719. <http://trussplatesupport.com> copyright 2007 by Universal Forest Products, Inc.

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