PERMIT

City of Napoleon 255 W. Riverview Napoleon, OH 43545

Division of Building and Zoning

PH (419) 592-4010 **FAX** (419) 599-8393

Permit No: 002053

Date Issued: 03-09-04

Issued by: BND

Job Location: 980 HARMONY DR

Est. Cost: 85000.00

Lot #: 35 & 36

Subdivision Name: BRICKYARD

Owner: HARC

Address: 135 E MAUMEE ST CSZ: NAPOLEON, OH 43545

Phone: 419-599-2892

Agent: TRI-AREA ENTERPRISES

Address: 03460 US 20 CSZ: EDON OH, 43518 Phone: 419-459-4343

Use Type - Residential:

Other:

ZONING INFORMATION

Dist: R-2

Lot Dim: 1484

Area:

Fyrd: 30

Syrd: 7

Ryrd: 15

Max HT: 15 # Pkg Spaces:

Loading SP:

Max Lot Cov:

BOARD OF ZONING APPEALS:

Work Type - New: X

Replmnt:

Addn'n:

Alter:

Remodel:

WORK INFORMATION

Size - Lgth: 80

Width: 26

Stories: 1

Living Area SF:

1484

Garage Area SF: 576

Height: 15

Bldg Vol Demo Permit:

WORK DESCRIPTION

NEW HOME

FEE DESCRIPTION

SEWER PERMIT

BUILDING PERMIT ELECTRICAL PERMIT PLUMBING PERMIT

MECHANICAL PERMIT WATER TAP PERMIT

PAID DATE

FEE AMOUNT DUE

207.00

25.00

9.00 9.00

655.00

229.00

CITY OF NAPOLEON

Total Fees Due

1134.00

City of Napoleon

Electric Meter Base Release Form

THIS DOCUMENT ENTITLES THE HOLDER TO "ONE" ELECTRIC METER BASE. (Please pickup at the City Operations Garage 1775 Industrial Drive).

Permit#002053

~ 41111011 (02000				
Date Issued: 03-09-2004				
Job Location: 980 HARMONY DI	R			
Work Description: NEW HOME				
Owner: HARC				
Address: 135 E MAUMEE ST	NAPOLEON, OH 43545			
Owner Phone: 419-599-2892				
Contractor: TRI-AREA ENTERPR	USES INC.			
Address: 03460 US 20	EDON OH,	43518		
Contractor Phone: 419-459-4343				
Electric Service Upgrade	New	Service Installation	X	
Industrial Commercial		Residential_X	1 Phase	3 Phase
Size of Service 100 Amp	150 Amp	200 AmpX	400 Amp	Other
Hub Size – 11/4"	11/21"	2"		
Desired Voltage 120/240	Other			W.
Underground Service	Overhead Ser	vice		
Date Completed:		Approved By:		
Old Meter Number:		New Meter Number_		
Comments:				



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LIBERTY HOMES INSTALLATION MANUAL (MODULARS) CALLED CONTROL CONT

This manual is designed to provide information about the setup of your home. This manual MUST be used in combination with your floor plan package which provides:

the foundation plans, tie down specifications, plumbing, electrical and other model specific information for the set up of your home. Also note:

Chapter 10: Typical foundation connections

Chapter 11: Completion of optional features:

Chapter 12: Cranning procedure.

Hinged roofs,

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INDUSTRIBLIZED UNIT

A copy of this manual must remain with the home for reference by the home owner.

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Over 60 years of leadership

DAVID SHOUP





*INTRODUCTION

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Thank you for purchasing one of our modular homes. This Installation Manual contains Instructions that must be followed for the proper installation of your home. PLEASE READ ALL INSTRUCTIONS PRIOR TO SET UP. NOTE: ALL OPERATIONS AND PROCEDURES CONTAINED WITHIN SHOULD BE PERFORMED BY QUALIFIED INDIVIDUALS ONLY AND ARE SUBJECT TO ALL LOCAL AUTHORITIES HAVING JURISDICTION.

CHAPTER 1 INTRODUCTION

- 1.1. HOW TO USE THIS MANUAL, manual contains installation instructions, including specifications and procedures for erection and hookup of your modular home. It has been written in an objective and easyto-understand manner so it can be understood by people without extensive technical training. It discusses the set-up of the home from preparing the site through final inspection. Careful adherence to this manual by the homeowner and installation crew, and consultation with a registered professional or structural engineer in those unusual circumstances it does not cover, will assure you of a quality, safe and affordable home for many years to come.
- 1.2. PRE-INSTALLATION CONSIDERATIONS. Prior to locating your home, contact the local authority having jurisdiction for installation to see if permits for such procedures as excavating and foundation construction or utility connections are required. Inspections may be required during installation. On private property, zoning or development covenants may and should be taken into consideration. (NOTE: Preparations of the site, when accomplished by others than the home installer, may not be in accordance with these instructions.)

- 1.3. SAFETY ONLY TRAINED CREWS SHOULD INSTALL THE HOME. INSTALLERS SHOULD FOLLOW THE SAFETY INSTRUCTIONS PROVIDED IN THIS MANUAL.
- 1.4. CONSUMER INFORMATION CARD. Fill out the CONSUMER INFORMATION CARD and return it to the plant which manufactured your home, so that you may be notified on revised instructions or new products.

2. CHAPTER 2 - DEFINITIONS

Footing: The part of the support system that sits directly below grade to support the foundation (per local code and frost lines).

Pier: That portion of the support system between the footing and the modular home, exclusive of caps and shims. Types of piers include, but are not limited to, the following:

- 1. Manufactured steel stands
- 2. Manufactured concrete stands, and
- 3. Concrete blocks (wet set only)
 CHIO BOARD OF
 BUILDING STANDARDS

THIS HOME WEIGHS SEVERAL TONS.

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USE ENOUGH TEMPORARY WOOD BLOCKING TO SUPPORT ATHEOHOME DURING SET-UP OR WHEN LOCATED AT DEALER LOTS OR FACTORY FOR AN EXTENDED PERIOD OF TIME. NO ONE SHOULD BE ALLOWED UNDER THE HOME UNLESS IT IS SECURELY IN PLACE, EVEN IF IT IS NOT MOVING.

Set-Up Manual - Page 1

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Site, Modular Homes: A parcel of land designed and designated for the location of one modulation home, its accessory buildings or structures, and accessory equipment for exclusive use of the home's occupants.

Stand, Modular Home: That area of a modular home site which has been reserved for placement of a modular home.

Support System: A combination of footings, piers, caps and shims that will, when properly installed, support the modular home.

3. CHAPTER SITE PREPARATION

- 3.1. LOCATION AND LAYOUT.
- 3.1.1. USE OF ZONE MAPS. Your home is, designed for certain weather conditions and roof loads (see zone maps near/home's main electrical panel.) Do not site or relocate your home in a zone requiring $\mathcal{E} \partial$ greater wind, roof load, or heating/cooling capabilities than those for which it was designed. However, it is safe to locate your home in an area with lower load or weather requirements. For example, a home designed for a northern roof load or 40 psf may be sited in the southern roof load zone.
- ACCESS FOR TRANSPORTER. Before 3.1.2. attempting to move your home to the installation site, be sure the transportation equipment can get through. Remove any overhanging branches and raise any overhead wires. Special transpiration permits may be required from state, county or city officials.
- 3.1.3. **ENCROACHMENTS** AND SETBACK DISTANCES. Obey local laws regarding encroachments in streets, yards and courts, and permissible setback distances from property lines and public roads. Consider future additions, such as awnings and screen rooms.
- 3.1.4. FIRE SEPARATION DISTANCE. distance your home must be sited from other structures depends on its fire resistance rating in conformance with local requirements. Contact the home's manufacturer or the inspection agency

3.1.5. ISSUANCE OF PERMITS BO

3.2. SOIL CONDITIONS.

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resistance rating informat

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necessary local permits have been obtained and fees paid.	

FIG. 3.2 GENERAL DES	CRIPTION OF SOIL	
SOIL TYPE BASED ON THE UNIFIED CLASSIFICATION SYSTEM	ALLOWABLE PRESSURE (POUNDS PER SQUARE POOT)	
ROCK OR HARD PAN	4,000 AND UP	
SANDY GRAVEL AND GRAVEL	2,000	
SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, OR CLAYEY GRAVEL	1,500	
CLAY, SANDY CLAY, SILTY CLAY, OR CLAYEY SILT	1,000	
UNCOMMITTED FILL (TYPES OF SOIL NOT LISTED)	SPECIAL ANALYSIS IS REQUIRED	
PEAT OR ORGANIC CLAYS	SPECIAL ANALYSIS IS REQUIRED	

NOTE THIS TABLE IS TO BE USED ONLY WHEN NONE OF THE FOLLOWING IS AVAILABLE.

A SOLL STRING INVESTIGATION AND ANALYSIS OF THE SITE.

B. COMPLEANCE WITH THE LOCAL BUILDING CODE.

C. COMPLEANCE WITH THE LOCAL ENGINEER OR BUILDING OFFICIAL.

NO ALLOWANCES MADE FOR OVERBURDEN PRESSURE, EMBEDMENT PROFILE.

PEPTH. WATER TABLE HEIGHT SETTLEMENT PROFILEMS

- AEQUIREMENTS. To help prevent settling of your home, site it on firm, undisturbed soil or fill compacted at least 90% of its maximum relative density. Installation on loose, uncompacted fill may invalidate the home's limited warranty.
- BEARING CAPACITY. Test the bearing 3.2.2. capacity of the soil at the depth of the footings after completing any grading and filling. Under usual conditions, or if the soil appears to be peat or uncompacted fill, consuit a location geologist or professional engineer.
- 3.2.3, SOIL BEARING TESTING METHODS AND EQUIPMENT. A pocket penetrometer (available from engineering supply houses) or other methods acceptable to local jurisdictions may be used.
- REMOVAL OF ORGANIC MATERIAL. 3.3. Remove all decayable material such as grass, roots, and wood scraps from beneath the home, especially in areas where footings are to be placed, to minimize settling of footings and insect damage. Remove shrubs and overhanging

Set-Up Manual - Page 2

branches from the immediate vicinity of homesite to prevent windstorm damage.

3.4. DRAINAGE.

- 3.4.1. PURPOSE. Drainage prevents water buildup under the home which may cause settling of the foundation, dampness in the home, damage to siding, buckling of walls and floors, problems with the operation of doors and windows, AND COULD VOID YOUR WARRANTY.
- 3.4.2. **ELIMINATION OF DEPRESSIONS.** Grade the homesite to permit water to drain from under the home.
- 3.4.3. DRAINAGE STRUCTURES. Depending on the local landscape, ditches and culverts may be needed to drain surface runoff. If so, consuit a registered professional engineer.
- 3.5. GROUND MOISTURE CONTROL.
- 3.5.1. IMPORTANCE. A vapor retarder that keeps ground moisture out of the home should be emplaced.
- 3.5.2. ACCEPTABLE TYPES OF GROUND William Control COVER. Use polyethylene sheeting or its equivalent, at least six mils thick.
- 3.5.3. PROPER INSTALLATION. Cover the entire area under the home with sheeting and overlap it at least 6" at all joints. Where soil and frost condition permit placement of footings at grade level, place the sheeting directly beneath them.

CHAPTER 4 - FOUNDATIONS 4.

4.1. PIERS.

- IMPORTANCE. Incorrect size, location or spacing of piers may cause serious structural damage to your home. Failure to do so may lead to sagging floors, walls and roofs.
- 4.1.2. ACCEPTABLE TYPES. Piers may be concrete blocks capped and shimmed with wedges, or adjustable manufactured metal or concrete devices.
- 4.1.3. DESIGN REQUIREMENTS.
- 4.1.3.1. LOAD-BEARING CAPACITY. that each pier must carry depends on

stors such De Van Stiff Likions of the frome, the roof live load, the spacing of the piers, and the way they are used to support the home. Center beam/marriage wall

DESIGN PROCEDURES.

blocking is required.

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- 4.1.4.1. PIERS LESS THAN 36" HIGH. You may construct piers less than 36" high out of single, open or closed-cell concrete blocks, 8" x 8" x 16". Install them so that the long side is at right angles to the supported Ibeam, Position open cells at right angles to the footers. Horizontal offsets should not exceed 1/2" top to bottom. Mortar is required. Manufactured piers should be listed and labeled. Do not extend their adjusting studs beyond the limits specified by the manufacturer.
- 4.1.4.2. PIERS 36" TO 80" HIGH. Construct all piers between 36" and 80" high, and all comer piers over three blocks high, out of double, interlocked concrete blocks. Mortar will be required.
- 4.1.4.3. PIERS OVER 80" HIGH. Where permitted by local codes, lay them in concrete mortar with steel reinforcing bars inserted in the block cells and fill the cells with concrete. Where such construction is not permitted by local codes, have piers over 80" high designed by a registered professional or ~ Astructural engineer. CJI
- 4.5. LOCATION AND SPACING. The location and spacing of piers depends upon the dimensions and weight of the home, the roof load zone, the type of construction and other factors such as the locations of doors or other openings and heavy pieces of furniture. In general, locate piers as per foundation plan.
- 4.1.5.1, UNDER **DOORS** AND HEAVY FURNITURE. Place plers on both sides of sidewall opening wider than 4' (such as entry and sliding glass doors), under porch posts, fireplaces and wood stoves, and under the expected locations of heavy pieces of furniture such as pianos, waterbeds, etc.
- FOOTINGS. Support every pier with a properly designed footing as follows:
- 4.2.1. ACCEPTABLE TYPES OF FOOTINGS.

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4.2.1.1. CONCRETE. Footings may consist precast of poured-in-place concrete, with 28-day compressive strength of at least 3,000 psi.

4.2.1.2. OTHER MATERIALS. You may also use other materials approved for this use by local authorities if they provide equal load-bearing capacity and resistance to decay.

4.2.1.3. PLACEMENT IN FREEZING CLIMATES.

- 4.2.1.4. CONVENTIONAL FOOTINGS. To preclude the harmful effects of the ground frost heave, footings should usually be placed below the frost line. Consult local authorities to determine frost penetration.
- 4.2.1.5. INSULATED FOUNDATIONS. Footings may also be placed above the frost line when the home is provided with a perimeter foundation having insulation properties sufficient to prevent freezing of the soil under or adjacent to every load-bearing component of the foundation and acceptable for this purpose to the local authority having jurisdiction. Insulation systems should be compatible with the requirement to cross-ventilate the entire space under the home.
- 4.2.2. PROPER SIZING OF FOOTINGS. Proper sizing of footings depends upon the load-carrying capacity of both the piers and the soil. See floor plan specific foundation layout provided with your home for minimum size of footing.
- 4.3. PERMANENT FOUNDATIONS. Check local building codes and regulations and consult a registered professional or structural engineer when you are setting your home on a permanent foundation (such as a full basement, crawl space or load-bearing perimeter foundation.) You may get a permanent foundation design that meets most local codes by writing to the manufacturer listed on the back cover of this manual.

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ECIAL CONSIDERATIONS

recommend sitting your home in river or coastal flood-prone areas. Special local regulations or flood insurance provisions may apply. Special elevation and anchoring techniques are required when locating in a flood-prone area. Consult a registered professional or structural engineer to make sure that home design and construction conform to applicable federal, state and local codes and regulations.

- 4.4.2. SEVERE WIND AREAS. Special foundation and anchoring techniques are required when locating in a severe wind area is unavoidable. Consult a registered professional or structural engineer. Do not place your home in a wind zone more severe than the one indicated on the data plate.
- 4.4.3. SPECIAL SNOW LOAD CONDITIONS. Homes designed for and located in heavy snowfall areas or subject to other extreme loading conditions may require special piers or footings. See table and/or special manufacturer's instructions provided with your home.
 - 4.5. IMPORTANT REFERENCE DOCUMENTS.
- 4.5.1. "BUILDING FOUNDATION DESIGN GUIDEBOOK," Document No. DE88013350, National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

NOTE: Along with this manual each model will have:

- A specific basement or crawl space foundation plan designed for either the perimeter frames or home without frame.
- Complete drain, pressure system, electrical, gas line and elevation. These drawings must be reviewed prior to set-up.
- 3. Consult your local authorities for all other requirements (such as tie down, frost level, etc.)

5. CHAPTER 5 - SET-UP PROCEDURES

- 5.1. MOVING HOME TO LOCATION. Make sure the following items are completed before placing the home:
 - 1. The site is properly prepared.
 - 2. All concrete work necessary to setting the home is finished.
 - 3. Utilities are installed or available.
 - 4. Any trenching, for crossover drain lines is complete.
 - 5. Items that could be difficult to install after the home is sited (such as ground moisture retarders) are in proper locations.

CAUTION: THE HOME WEIGHS SEVERAL TONS. USE ADEQUATE TEMPORARY SUPPORT BLOCKING TO SAFEGUARD WORKERS. WOOD BLOCKING FOR YOUR HOME IS RECOMMENDED.

- 5.1.1. POSITIONING MULTI-SECTION HOMES.
 - 1. Place the second section near the first (2-4) feet.
 - Remove all shipping materials and items that stick out from the mating surfaces of both sections.
 - 3. Reference detail.
- 5.1.1.1. INTERIOR CLOSURE. Manufacturer to insert specific instructions and illustrations about the materials and procedures needed to effect the interior closure of this product.
- 5.1.1.2. EXTERIOR CLOSURE. Manufacturer to insert specific instructions and illustrations about the materials and procedures needed to effect the exterior closures of his product.

- 5.2. CROSSOVER CONNECTIONS.
- 5.2.1. UTILITY CROSSOVERS. Connect water, drainage, gas, electricity and telephone utility crossovers.
- DUCTWORK CROSSOVERS (WHERE 5.2.2. APPLICABLE). All flexible duct crossovers are marked and suspended in floor cavity for easy on-site connection at mating line. Once crossovers are located. connection(s) may be above or below the center wall I-beam (do not cut through center wall I-beam). Clamp the flexible air conditioning and/or heating crossovers together with sleeve (supplied at one end of crossover) and seal connection with several wraps of duct tape and suspend the duct within the floor cavity. Note: Each register on the non-furnace section will have a crossover connection.)
- 5.3. INSTALLATION OF ON-SITE ATTACHED STRUCTURES. Design all attached building and structures to support all of their own live and dead loads, and to have fire separation as required by state or local ordinances.
- 5.3.1. ATTACHED GARAGES. Attached garages must be installed according to the manufacturer's instructions and to all applicable local codes. They must be supported independently of the factory-built portion of the home. Electrical circuits in garages should be provided with ground fault interruption.
- 5.3.2. **PORCHES.** Site-constructed porches must be constructed and inspected according to applicable local building codes.
- 5.3.3. STEPS, STAIRWAYS AND LANDINGS.
 Steps, stairways and landings must be constructed and inspected according to applicable local building codes.



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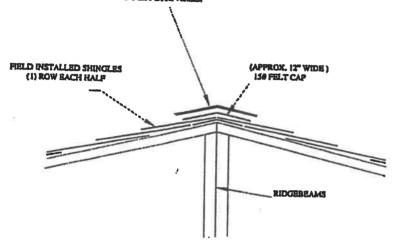
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FIGURE 5.5 - SHINGLE ROOF CLOSE-UP

RIDGE CAP SHINGLES ARE 36 x 12 CUT IN THREE SECTIONS, FASTEN WITH MINIMUM I" LG. GALV. FASTENERS, APPROX. (4) FASTENERS PER SHINGLE.

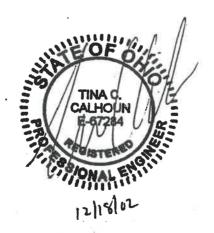


SHINGLE FASTENING DETAIL

0.407 x 1" x 12 GA. (MIN) ROOFING NAILS
6 PER SHINGLE
X = 1" +/- 1"
Y = 1" FROM END OF SHINGLE
Z = 5 5/8" FROM EDGE OF SHINGLE
FASTENERS ARE NOT TO BE ABOVE TAR STRIP
OR BELOW RAIN SLOTS

NOTE:

WHEN SHIPPING STRAPS ARE REMOVED FROM THE ROOF THE NAIL OR STAPLE HOLES MUST BE SEALED WITH A ROOFING CEMENT. LIFT THE SHINGLE TAB WHERE THE HOLE IS AND APPLY CEMENT ON THE UNDER SIDE OF THE FASTENER HOLE.



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FIGURE 5.6 - TYPICAL FASTENING AT MARRIAGE WALL COLUMNS

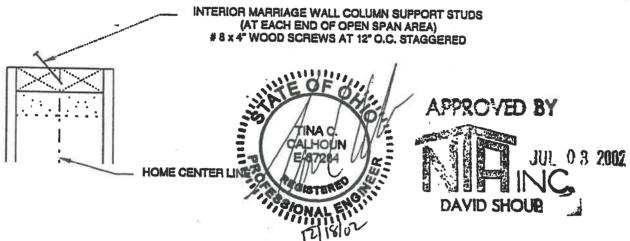
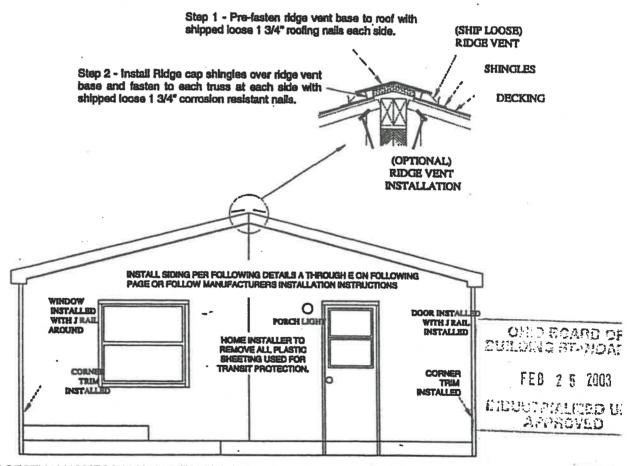


FIGURE 5.7 - FIELD APPLIED HORIZONTAL LAP SIDING

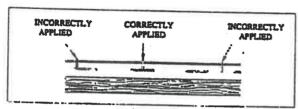


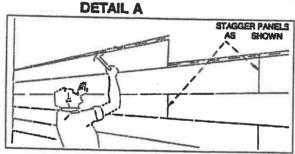
DOUBLE-SECTION HOMES WITH HORIZONTAL LAP SIDING MAY BE SHIPPED WITH NO SIDING ON THE FRONT AND REAR END WALLS. THE FOLLOWING ITEMS WOULD BE INSTALLED: DOORS/WINDOWS TRIMMED WITH J-RAIL; CORNER TRIM; AND COVER WITH PLASTIC SHEETING FOR TRANSIT. ALL SIDING, STARTER TRIM, FASTENERS AND VENTS WILL BE SHIPPED LOOSE IN THE HOME FOR INSTALLATION ON SET UP.

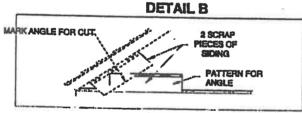
HOME INSTALLER TO COMPLETE INSTALLATION AFTER HOME IS SET UP. THIS WOULD INCLUDE THE INSTALLATION OF ROOF VENTS, IF REQUIRED.

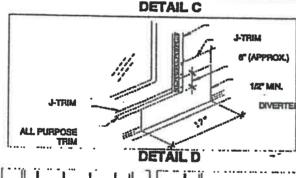


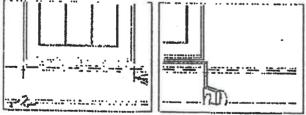
FIGURE 5.7 (CONTINUED) LAP SIDING INSTALLATION











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E-87284
VINYL LAP SIDING

Wide strip of duct tape at the marriage joint of

Apply a 2° wide strip of duct tape at the marriage joint of the endwalls for the entire height of the walls. Apply the duct tape directly over the sheathing.

The siding panels should be attached using $7/16 \times 1 \ 1/2^{\circ} \times 16$ gauge gaivanized steel or aluminum staples. (6d gaivanized nails may also be used.) Staples should be driven so that there is a $1/32^{\circ}$ clearance between the siding and staple crown to allow some lateral movement. Fasten every 16° to each stud. See Detail A for proper fastening.

Snap the bottom course of siding into the starter strip and fasten to the wall. Leave a 1/4" space at corner posts and 'J' channels around window and door openings to allow for expansion. Do not fasten within 4" of an accessory. Vertical butt joints in panels should overlap 1". Do not fasten the panel within 4" of the joint. Install vinyl, aluminum, felt or other suitable material for flashing at bottom corners of doors and windows per Detail E. Apply caulk around siding and light blocks, water faucets, or other small penetrations.

Install successive courses similarly to the first. Butt joints in adjacent courses should be offset by at least 24". Joints in alternate courses should be aligned vertically (see Detail B).

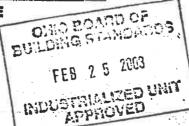
Panels will have to be cut at headers and sills. A single panel should extend without joints across the width of the opening. When cutting a panel at a sill, measure the distance between the bottom of the opening and the top lock of the lower course, then deduct 1/4" (see Detail C.)

Slide the cut panel into the under sill trim and install. Note that the undersill trim piece may have to be furred to maintain the proper pitch of the siding.

Measure and cut the header panel in the same manner as indicated above.

The top sections at the gable will need to be angle cut. Use two scrap pieces of siding to make a pattern (see Detail D). Interlock one piece with the siding panel below. Hold the other piece on top against the gable. Mark a line on the bottom piece and cut. Use this piece as a pattern for cutting gable pieces. Install the gable pieces by Interlocking with the lower course, sliding into the gable 'J' rail and fastening.

DETAIL E



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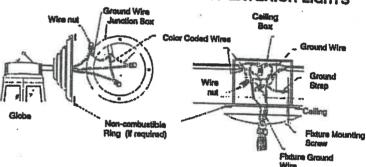
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CHAPTER 6 - INSTALLATION OF OPTIONAL FEATURES

- AWNINGS AND CARPORTS. Choose free-6.1. standing products with columns to support their weight.
- ACCESSORY WINDOWS. Install accessory 6.2. windows or components with the installation materials supplied. and follow manufacturer's installation instructions.
- MISCELLANEOUS 6.3. **LIGHTS** FIXTURES. Some exterior lights, ceiling fans and chain-hung fixtures may not yet be installed when the home is delivered. All of these fixtures must be grounded by a fixturegrounding screw or wire. For chain-hung fixtures, use both methods. When fixtures are mounted on combustible surfaces such as hardboard, install a non-combustible ring to completely cover the combustible surface exposed between the fixture canopy and the wiring outlet box. If siding has not been installed at a fixture location, remove the outlet box and install the siding with a hole for the outlet box. Then reinstall the outlet box and proceed as for other fixtures.
- EXTERIOR LIGHTS. Remove the junction box covers and make wire-to-wire connections using wire nuts. Connect wires black to black, white to white, and ground to ground. Caulk around the base of the light fixture to ensure water tight seal to the sidewall. Push the wires into the box and secure the light fixture to the junction box. Install the light bulb and attach to the globe.
- CEILING FANS. To reduce the risk of-6.3.2. injury, install ceiling fans with the trailing edges of the blades at least 6'4" above the floor. Follow the manufacturer's instructions.
- 6.4. **EXTERIOR COVERINGS.** Install exterior coverings (stucco, plywood, vinyl hardboard exterior siding; shingled or tiled roofs, etc.) according to the material manufacturer's instructions.

6.5. TELEPHONE AND CABLE CARELESS INSTALLATION OF TELEPHONE AND CABLE TELEVISION LINES MAY BE HAZARDOUS. The walls and floors of your modular home contain electrical circuits, plumbing and duct work. Avoid contact with these home systems when drilling through and placing cables within these cavities. Only trained professionals should handle such work. FAILURE TO **FOLLOW** THESE INSTRUCTIONS MAY RESULT SERIOUS PERSONAL INJURY OR DEATH,

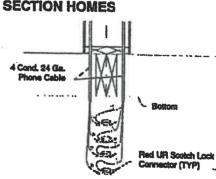
FIGURE 6.1 - INSTALLATION OF EXTERIOR LIGHTS



a) Exterior Light Fluture

b) Chain hung fixture or calling fan (35# max.)

FIGURE 6.2 - TELEPHONE WIRING FOR MULTI-**SECTION HOMES**



Notes:

- 1) Connect blue to blue, red to red. yellow to yellow, and green to green.
- 2) Do not strip the individual wires.
- 3) Insert the same color wires into the connector, then using channel lock pliers, press the round portion to make the connection.

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7. CHAPTER 7 - PREPARATION OF APPLIANCES

7.1. Clothes dryer vent. Your clothes dryer must exhaust to the exterior of the home, through a moisture-lint exhaust system. IMPORTANT: Do NOT let the exhaust system end under the home where excess moisture or flammable material accumulate. All required components and fittings are provided with the home. (Or, alternately: Install a flex duct after the home is set up at the site. Hold the duct in place with metal straps spaced 2' on center secured to the bottom of the floor joists

frame.) Vent openings are located in either the wall or the floor. After the duct is installed, seal the openings, both inside and outside. Follow the dryer manufacturer's instructions for installing the exhaust system.

Manufacturer's specific, step-by-step installation instructions, if desired.

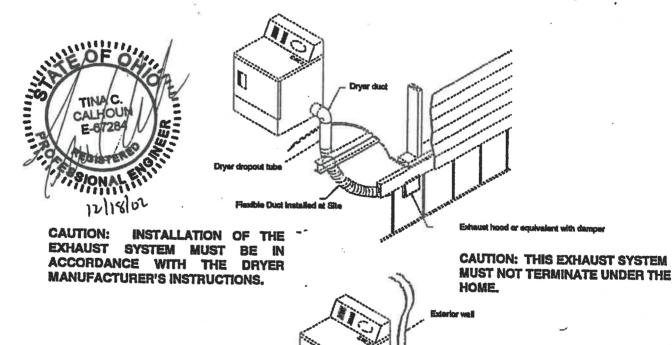
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If your home did NOT come equipped with a gas dryer. remember that installing requires substantial alteration to the home. You must provide gas supply piping and adequate venting as specified by the gas dryer manufacturer. Only a trained and experienced person should install a gas dryer. Cutting major structural elements (such as rafters or floor joist) to allow for gas dryer installation is not permissible. The manufacturer home ig responsible for any weakening of the home's structural soundness resulting from dryer installation.

- 7.2. COMFORT COOLING SYSTEMS.
 Only qualified personnel may install any comfort cooling system not provided with the home. Follow the manufacturer's installation instructions and conform to all local codes.
- 7.2.1. AIR CONDITIONERS. The air distribution system of this home has been designed for a central air conditioning system. Equipment you install must not exceed the rating shown on the home's compliance certificate. Installing window air conditioning units is not recommended.

The home's electrical distribution panel may contain optional factory installed circuits for air conditioning. The maximum full load ampere draw for the desired air conditioning unit must not exceed the circuit rating shown.

On the other hand, electrical circuits, within the home may NOT have been sized for additional load or non-factory-installed air conditioning, and a separate outside electrical supply may have to be provided.

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JUL 03 2902 PAYID SHOUR Any field-installed wiring beyond the junction box must include a fused disconnect located within sight of the condensing unit. The maximum fuse size is marked on the condenser data plate. Local codes will determine the acceptability of the air conditioning equipment, rating, location of disconnect means, fuse type branch circuit protection, and connections to the equipment.

"A" coil air conditioning units must be compatible and listed for use with the furnaces in the home. Follow the air conditioner manufacturer's instructions.

remote (self-contained, packaged) air conditioner (cooling coil and blower located outside the home) is to be connected to the heating supply duct, install an automatic damper between the furnace and the home's air duct system, and another between the remote unit and the home's air duct system. Secure the duct system leading from the remote unit to the home and do not allow it to touch the ground. Insulate ducts with material of thermal resistance (R) no less than 4, and a perm rating of not more than 1 perm. Connect the duct carrying air to the home to the main duct at a point where there are approximately as many registers forward of the connection as there are to the rear. Locate the return air duct in the center of the home.

Do not cut or damage floor joists. Return air and supply ducts are sized to fit between floor joists, where are located 16" on center throughout the home. Replace insulation removed during the installation.

Direct all condensation runoff away from the home by connecting a hose to the equipment runoff outlet or other means respective by the equipment manufacture.

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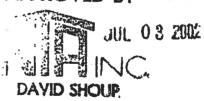
- 7.2.2. HEAT PUMPS. Install heat pumps according to the heat pump manufacturer's installation.
- 7.2.3. EVAPORATIVE COOLERS. Install a roof-mounted cooler following the manufacturer's instructions.
- 7.2.4. FIREPLACE AND WOOD STOVE CHIMNEYS AND AIR INLETS. Fireplaces and wood stoves require on-site installation of additional section(s) of approved, listed chimney pipe, a spark arrestor and a rain cap assembly.
- 7.2.5. MINIMUM EXTENSIONS ABOVE ROOF. To assure sufficient draft for proper operation, extend the finished chimney at least 3' above the highest point where it penetrates the roof and at least 2' higher than any building or other obstruction located within a horizontal distance of 10'. If the site has obstructions extending higher than the home's peak within 10' of the chimney, the installer may have to provide an additional section of chimney pipe if required by local codes.
- 7.2.6. ASSEMBLY AND **SEALING** SEQUENCE. Assemble and seal your fireplace or wood stove chimney as follows: (to be supplied). Avoid cutting any roof trusses or floor joists when installing chimney pipes or combustion-air intakes.
- 7.2.7. COMBUSTION AIR DUCT INLETS. Combustion air intake ducts end just below the bottom of the floor. You must extend them to the outside when your home has a basement or crawlspace. These added ducts are (are not) supplied, or may be purchased at your local hardware store. The fireplace manufacturer's instructions for installing combustion air ducts are in the fireplace/stove or with the chimney parts. Do not allow the combustion air inlet to drop material from the hearth beneath the home. Locate its inlet damper

above expected snow level as shown in Figure 7.4.

7.2.8. RANGE, COOKTOP AND OVEN VENTING. If your home is equipped with a combination range (cooktop)/grill or oven that contains its own exhaust system, route exhaust so that it does not exit under the home. Connect flexible metallic duct between the elbow protruding from the floor and the termination fitting. and support it according to the manufacturer's installation instructions.



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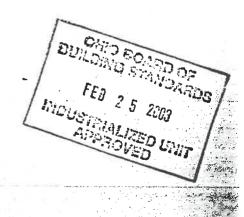
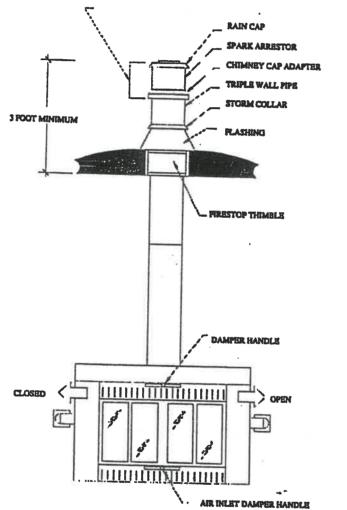
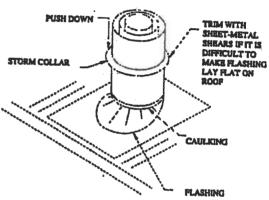
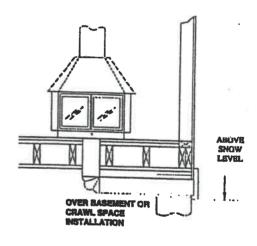


FIGURE 7.4 - FIREPLACE CHIMNEY AND AIR INTAKE INSTALLATION









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- 8. CHAPTER SOLUTION AND SYSTEM CON LEGION AND TESTING 53 F-6728
- 8.1. PROPER PROCEDURES OF THE County or state authorities before connecting any utilities. Only qualified service personnel, familiar with local codes and licensed where required, should make utility connections and conduct tests.
- 8.2. WATER SUPPLY.
- 8.2.1. MAXIMUM SUPPLY PRESSURE AND REDUCTION. THE water systems of your home were designed for a maximum inlet pressure of 80 psi. If you are located in a water district where the local water supply pressure exceed 80 psi, install a pressure reducing valve.
- 8.2.2. CONNECTION PROCEDURES.
- 8.2.2.1. TO SUPPLY MAINS. Connect the home's water system to the water source through the inlet located under the house, usually below the water heater compartment. A tag on the side of the home marks its location.
- 8.2.2.2. MANDATORY SHUT-OFF VALVE. You MUST install an accessible shut-off valve between the water line cross-connections. Remove the shipping caps from the water lines and install the crossover connectors provided with the home. If freezing can occur, wrap water connectors with insulation.
- 8.2.3. FREEZING PROTECTION.
- 8.2.3.1. NECESSITY. In areas subject to subfreezing temperatures, protect exposed sections of water supply piping, shut-off valves and pressure reducers, and pipes in water heater compartments with un-insulated doors, from freezing. Otherwise, burst pipes and costly damage may result.
- 8.2.3.2. USE OF HEAT TAPES. Heat tapes (either automatic or non-automatic) can protect exposed plumbing from freezing. USE ONLY HEAT TAPES LISTED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY FOR USE WITH MODULAR HOMES, AND INSTALL THEM ONLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- 8.2.3.3. FREEZING PROTECTION FOR UNOCCUPIED HOMES. If the home is to be left unheated in cold weather, drain the water lines and blow them clear with compressed air to prevent damage from freezing.
- 8.2.4. TESTING PROCEDURES. Even though the water system was tested at the factory, it must be rechecked for leaks at the installation site. Close all water faucets, spigots and stool tank float valves, and use one of the following procedures:
- 8.2.4.1. HYDROSTATIC. Be sure the water heater tank is full of water. Pressurize the system with water at 100 psi, and then isolate it from the pressure source. The system must hold this pressure for at least 15 minutes without any loss. If the pressure falls off, repressurize the system and locate the correct leaks.
- 8.2.4.2. PNEUMATIC. CAUTION: **PROCEDURE** IS USED, YOU MUST BYPASS THE HOT WATER TANK BY HOOKING ITS COLD INLET AND HOT OUTLET LINES TOGETHER. THIS PROCEDURE WILL PROTECT THE APPLIANCE FROM DAMAGE **AND** PROTECT THOSE INVOLVED IN TEST FROM POSSIBLE INJURY. Connect an air pump and pressure gauge to the water inlet and pressurize the system to 100 psi. Isolate the pressure source from the system. The gauge must stand for at least 15 minutes with no drop in pressure. Correct any leaks indicated by bubbles from soapy water, repeating the procedure until all have been विश्वीiminated. Reconnect the water heater and the water supply.

8.3. DRAINAGE, WASTE AND VENT

portions of the drainage system were not installed at the factory, all materials and diagrams required to complete it have been shipped as loose items in the home. Assemble the DWV system following the manufacturer's specific instructions and diagrams. Start at the most remote end and work toward the outlet, supporting the piping with temporary blocking to achieve the proper slope (see Paragraph 6.3.2) paymen the entire system has been completed, install permanent drain line supports at 4' on center.

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8.3.2. PROPER SLOPES AND CONNECTOR SIZES. Drain lines must slope at least 1/4" fall per foot of run unless otherwise noted on the schematic diagram.

Exception: 1/8° fall per foot is allowed when a cleanout is installed at the upper end of the run. Connect the main drain line to the site sewer hookup using an approved elastomer coupler.

8.3.3. CROSSOVERS/VTR'S IN HINGES ROOF AREA. Assemble multi-section home DWV line connections as shown in schematic.

8.3.4. SOLVENT WELDING PROCEDURES. The solvent cement used to connect drain lines must be compatible with the pipe installed in the home. Follow the manufacturer's instructions on the container.

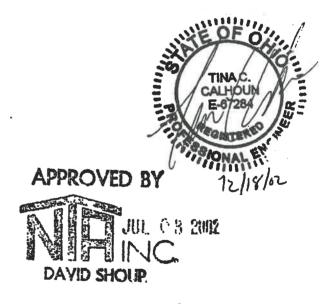
8.3.5. PROTECTION FROM FREEZING. Dorchester Homes has insulated fittings in the drainage system subject to freezing, such as P-traps in the floor. Replace this insulation if removed during assembly or testing. Insulate drain lines installed below the floor in areas subject to freezing. If the home is to be left unheated in cold weather, pour an approved antifreeze into P-traps at all fixtures and stools.

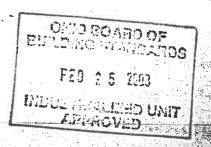
8.3.6. FLOOD LEVEL TEST PROCEDURE. You must conduct a flood level test on the completed drainage system before connecting it to the site sewer. With the home in a level position, all fixtures connected, and all tub and shower drains plugged, connect the drainage piping system to the site water inlet and fill the system with the water to the rim of the toilet bowl. Release all trapped air. Allow the system to stand at least 15 minutes. Check for leaks. Drain the system. Plug all fixtures, sinks, showers and tubs and fill with water. Release the water in each fixture simultaneously to obtain the maximum possible flow in drain Check all P-traps and the drain system for possible leaks. Repair any leaks and retest.

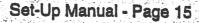
8.4. GAS SUPPLY.

8.4.1. TYPE OF GAS SYSTEM FURNISHED WITH HOME. All gas appliances in this home, including the heating system, are equipped for natural (or LP) gas. If LP (or natural) gas is to be used as the gas supply instead, a qualified service person must convert the appliances to LP (or natural) gas following the instructions provided by each appliance manufacturer.

8.4.2. PROPER SUPPLY PRESSURE. THE GAS PIPING SYSTEM IN YOUR HOME HAS BEEN DESIGNED FOR A PRESSURE NOT TO EXCEED 14" OF WATER COLUMN (8 OZ. OF 1/2 PSI). IF GAS FROM ANY SUPPLY SOURCE EXCEEDS, OR MAY EXCEED, THIS PRESSURE, YOU MUST INSTALL A PRESSURE REDUCING VALVE. To operate gas appliances safely and efficiently, do not exceed the design pressure limitations. For natural gas systems, the incoming gas pressure should remain between 6" and 8" of water column. For LPG systems, the pressure should lie between 12" and 14" of water column.







ORIFICING FOR SPECIFIC 8.4.3. SPECIAL ORIFICES AND REGULATORS CALHOUN ARE REQUIRED FOR EACH KIND GAS AND AT ALTITUDES ABOVE 3,000 SEE INSTRUCT THE ACCOMPANYING EACH GAS-BURNING APPLIANCE FOR MODIFICATION INSTRUCTIONS. BEFORE MAKING ANY CONNECTIONS TO THE SITE SUPPLY, CHECK THE INLET ORIFICES OF ALL GAS APPLIANCES TO ENSURE THEY ARE CORRECTLY SET UP FOR THE TYPE OF GAS TO BE SUPPLIED.

CROSSOVERS. Install the gas line 8.4.4. crossover in multi-section homes before performing any system tests or connecting the system to the gas supply. All crossovers and fittings must be listed for manufactured housing exterior use and be the same size as the main unit pipe. Do not use tools to connect or remove the flexible connector quick disconnect.

8.4.5. **TESTING PRIOR TO CONNECTION** TO MAINS. Even though the gas system was tested at the factory, it is essential that it be rechecked for leaks at the site. DO NOT APPLY PRESSURE IN EXCESS OF THOSE SPECIFIED BELOW OR YOU MAY DAMAGE GAS **VALVES** AND/OR PRESSURE REGULATORS. Conduct one of the following two tests when the air and piping temperatures are nearly equal and will remain stable.

8.4.5.1. PIPING ONLY TEST. Close all appliance shut-off valves. Attach a pressure gauge calibrated in ounces at the home gas inlet. Pressurize the system with air to at least 3 psi (48 oz.). Isolate the pressure source from the system. The gauge must stand for at least 10 minutes with no drop in pressure. If any pressure loss occurs,-check all joints in the piping system and at all shutoff valves with soapy water or bubble solution DATE CIFURNACES. until the leaks are located. Repair the leaks and retest until the pressure holds,

8.4.5.2. TEST OF ENTIRE SYSTEM. Close all gas equipment controls and pilot light valves according to the individual gas equipment manufacturer's instructions. Assure that gas shut-off valves for all gas equipment are in the OPEN position. Attach a pressure gauge calibrated in ounces at the home gas inlet. Pressurize the system with air to at least 6 oz. Check all gas shut-off valves and flex line connections to valves and appliances for leaks, using soapy water or bubble solution. DO NOT BUBBLE CHECK BRASS FITTINGS WITH SOLUTIONS

ONTAINING AMMONIA. Repair any leaks Mourt and retest. Close all equipment shutvalves upon completion of testing.

CONNECTION PROCEDURES. spect gas appliance vents to ensure they have been connected to the appliance and make sure that roof jacks are installed and have not come loose during transit. Have the gas system connected to the gas supply only by an authorized representative of the gas company.

8.4.7. GAS APPLIANCE START UP PROCEDURES. One at a time, open each equipment shut-off valve. Light pilots and adjust burners according to each appliance manufacturer's instructions. MAKE SURE THE WATER HEATER IS FILLED WITH WATER BEFORE LIGHTING ITS PILOT. Check the operation of the furnace and water heater thermostats and set them to the desired temperatures.

8.5. HEATING OIL SYSTEMS. Homes equipped with oil burning furnaces must have their oil supply tankage and piping installed on site. These items are not supplied with your home. Consult the oil furnace manufacturer's instructions for proper pipe sizing and installation procedures. ALL OIL STORAGE TANK AND **PIPING** INSTALLATIONS MUST MEET ALL APPLICABLE LOCAL REGULATIONS AND SHOULD BE MADE ONLY **EXPERIENCED QUALIFIED PERSONNEL**

8.5.1. TANK INSTALLATION REQUIREMENTS. Unless the home is Installed in a community with a centralized oil distribution system, you must install an oil storage tank outside the home. Locate the tank where it is accessible for service and supply and safe from fire and other hazards.

8.5.1.,1. VAPORIZING (GRAVITY-FEED) Install oil tanks that feed vaporizing-type oil furnaces so that oil flows freely by gravity. To achieve efficient gravity 2 5 2003 flow, install the tank so that its bottom is at least B" above the level of the furnace's oil control and its top is within 8' of the oil control level.

> 8.5.1.2. GUN (PUMP-FED) FURNACES. Since the furnace includes a fuel pump, the tank may be installed above or below ground. For tanks installed below ground, do not exceed the lifting capacity of the parts, and extend the filler neck it above grade and provide a 1 1/4 diameter Tunimum vent pipe extending at least 2' above grade. JUL C 3

8.5.1.3. SLOPING AND DRAINING REQUIREMENTS. Regardless of the type oil furnace or the tank location, install the tank to provide a gradual slop toward be ill end or drain plug (if so equipped). facilitates pumping or draining of water o sludge.

8.5.2. SHUT-OFF VALVE AND FUEL LINE FILTER. Install an accessible and approved manually-operated shut-off valve at the oil tank outlet. Dorchester Homes also recommends installing a suitable filter in the fuel line near the tank to trap dirt and water.

8.5.3. LEAK TEST PROCEDURE. Before operating the system, check for leaks in the tank and supply piping. Fill the tank to capacity with fuel and examine all joints in the system for leakage.

8.6. ELECTRICITY. A large enough power supply must be available at the site. An inadequate power supply may result in improper operation of, and possible damage to, motors and appliances. It may also increase your electricity costs. The current rating in amperes of your home can be found on the tag located outside next to the feeder or service entrance and also on the electrical distribution panel.

8.6.1. DESCRIPTION AND RATING OF HOUSING WIRING. Your home is designed for connection to an electrical wiring system rated at 120/240 volt AC. PROPER AND SAFE CONNECTION DEPENDS ON THE TYPE OF SUPPLY SYSTEM YOUR HOME IS EQUIPPED WITH.

8.6.2. PROPER FEEDER WIRING AND JUNCTION BOX MATERIAL. AND SIZE. The main breaker and the label on the electrical distribution panel give the feeder current capacity and amperes. Using this information, determine the required feeder size from the following tables. These sizes are based on an ambient temperature of 86F and do not take voltage drop that consideration. See individual manufacturer's set-up and installation guide for specific requirements.

8.6.2.1. OVERHEAD FEEDERS. Homes equipped with overhead (mast weatherhead) feeder entrances contain all necessary conduit to the electrical distribution panel.

(net plovided) on site.

UNDERSIDE FEEDERS. Homes an under-the-floor entrance come with a semanently attached conduit raceway that tuns from the electrical distribution panel to a point under the floor. Install an approved conduit panel to a point under the floor. Install an approved conduit fitting or junction box at the termination point.

8.6.3. GROUNDING OF HOMES WITH FEEDER CONNECTIONS.

8.6.3.1. NECESSITY. The home must be grounded properly to protect the occupants. The only safe and approved method of ground your feeder-connected home is through the grounding bar in the electrical distribution panel. This bar grounds all noncurrent-carrying metal parts of the electrical system at a single point.

8.6.3.2. PROCEDURE. The ground conductor of the power supply feeder cable connects the grounding bar to a good electrical ground. insulate the grounded circuit conductor (neutral or white wire) from the grounding conductors (green wires) and from equipment enclosures and other grounded parts. Insulate neutral circuit terminals in the distribution panel board - and in ranges, clothes dryers, and countermounted cooking units - from the equipment enclosure. Bonding screws, straps or buses in the distribution panel board or in appliances should have been removed and discarded at the manufacturing facility. You may provide the required continuity of ground between sections of multi-section homes through a metallic roof or siding for by boiting outriggers together. When the outriggers or other overlapping metal joints of adjoining units are not boited together on houses with shingle roofs and non-metallic siding, install a ground wire connection between the chassis. This bonding connection is commonly made with a #4 AWG bare copper wire or other approved positive connection between parts, using approved grounding lugs with bolts, star washers and nuts, or self-tapping screws that are shipped with the home.

8.6.3.3. UNACCEPTABLE) METHODS OF GROUNDING HOMES. Grounding to a rod, a water pipe, will no tasky the important grounding requirement. NEVER USE THE

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NEUTRAL CONDUCTOR OF THE FEW ER CABLE AS A GROUND WIRE. DO NOT TINA C. GROUND THE NEUTRAL BAR THE CALHOUS ELECTRICAL DISTRIBUTION PANEL. 107264

8.6.4. CONNECTION

Connections should be made only by qualified electrician using one of the following methods:

8.6.4.1. MAST WEATHERHEAD FEEDER. The routing, connection and support of the service drop must meet local codes. If the masthead is located above the roof overhang, allow a minimum 8' clearance above all roof points the conductors pass over. There are two exceptions to this rule: 1) The vertical clearance may be reduced to 3 if the roof has a minimum slop of 4 in 12; and 2) The vertical clearance may be reduced to 18" if no more than 4' of servicedrop conductors pass above the roof overhang, and if they terminate at a throughthe-roof raceway or approved support. A minimum clearance must also be provided from the final grade to the service-drop conductors. This measurement may vary from 10' to 18' depending on the types of traffic anticipated below the service drop (refer to the National Electric Code). Unless impractical, locate service heads above the point of attachment of the service-drop conductors and make them rain-tight. Individual conductors do not extend downward, form drip loops.

8.6.4.2. **UNDERSIDE** JUNCTION FEEDER. A raceway from the main panel board to the underside of the home allows for. installing an approved junction box or fitting, which must be used to connect it to the supply raceway. Install properly-sized conductors from the main power supply to the panel board. The homeowner or installer must provide the supply connection including the feeder conductors, junction box and raceway connectors. Protect conductors emerging from the ground from a minimum 18" below grade to 8' above grade, or to the point of entrance to the home. The distance measured from the top surface of a buried cable, conduit or raceway to the finished grade must meet minimum requirements outlined in the National Electric Code. Use a moisture-proof bushing at the end of the conduit from which the buried cable emerges.

8.6.4.3. SERVICE EQUIPMENT METER BASE. Either an overhead or underground

france may be provided. The exterior fourpment and enclosure must be veatherproof, and conductors must be mable for use in wet locations. When a heter is provided on the home, connect the neutral (white) conductor to the system grounding (green) conductor on the supply side of the main disconnect. The homeowner must provide the grounding electrode conductor(s). The grounding electrode should be an 8' length of 1/2" diameter copper rod or 3/4" galvanized steel pipe. Drive it into the ground at least 12" below the surface and 2' from the foundation, or bury it horizontally in a 2 1/2' deep trench. Connect the grounding conductor wire to the grounding electrode with a grounding clamp. For added protection, homes with metal frames or siding should be connected to earth by means of an additional bonding wire to underground metallic water pipes, ground rings, additional ground rods, etc. to prevent buildup of hazardous voltages.

8.6.5. CROSSOVER CONNECTIONS. Crossover locations can be distinguished by metal junction boxes or access cover panels. Remove these panels and connect the enclosed wires. Some crossover connectors plug together and do not require junction boxes.

8.6.6. SYSTEM TEST PROCEDURES AND EQUIPMENT.

3.6.6.1. PRE-CONNECTION

Conduct both of the following tests before any electrical power is supplied to the home:

8.6.6.1.1. CIRCUIT CONDUCTOR
CONTINUITY. conduct a continuity test by
placing all branch circuit breakers and
switches controlling individual outlets in the
"on" position. The test should give no
evidence of a connection between any of the
supply conductors (including the neutral) and
the grounding circuit. You may use a
flashlight continuity tester.

8.6.6.1.2. GROUNDING CONTINUITY. Using a continuity tester, test all noncurrent-carrying metal parts to assure continuity to ground. The parts to be checked include:

- Appliance enclosures, including fans;
- Fixture enclosures and earning
- Metal water supply and gas lines

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- Metal ducts (except foil-covered insulated ducts);
- The home's frame.

On multi-section units, perform this test only after completing all electrical and bonding connections between the units. NOTE: GROUNDING IS NOT REQUIRED ON THE METAL INLET OF A PLASTIC WATER SYSTEM OR ON PLUMBING FIXTURES SUCH AS TUBS, FAUCETS, SHOWER RISERS, AND METAL SINKS WHEN THEY ARE CONNECTED ONLY TO PLASTIC WATER AND DRAIN PIPING.

8.6.6.2. POST-CONNECTION TESTS.
Conduct the following three tests after turning on the main circuit breaker and each individual circuit breaker. CAUTION:
ALLOW THE WATER HEATER TO FILL COMPLETELY BEFORE ACTIVATING THE WATER HEATER CIRCUIT. FAILURE TO DO SO WILL CAUSE THE WATER HEATER ELEMENT TO BURN OUT, AN EVENT NOT COVERED BY THE WARRANTY.

8.6.6.2.1. POLARITY AND GROUNDING OF RECEPTACLES. With receptacle and lighting circuits energized, check the polarity and grounding of each 120-volt receptacle and light socket using a polarity tester capable of determining an incorrect wiring configuration. A conversion device may be required to test various fixture bulb sizes and outlet configurations. Investigate any indication of reversed polarity, open grounds or shorts and correct it.

8.6.6.2.2. GROUND FAULT CIRCUIT INTERRUPTION (GFCI). Make certain that all receptacles requiring GFCI protection are in fact on the correct circuit(s). Check each ground fault circuit interrupter device by pushing the test button to determine if the power route to the receptacle has been interrupted, or follow the manufacturer's instructions. Replace any GFCI that does not operate properly.

8.6.6.2.3. OPERATIONAL CHECKS. Check all light fixtures by placing a bulb in the socket and turning the switch on and off. Using a pigtail light, check all 240 volt receptacles to determine if both legs of the circuit are powered. Check all 120 volt receptacles to be sure that each is operational. Switched receptacles require the switch to be turned on and off. It is not necessary to check appliances, but their power sources must be assured. Failure of electrical wiring or fixtures requires repair and re-testing.



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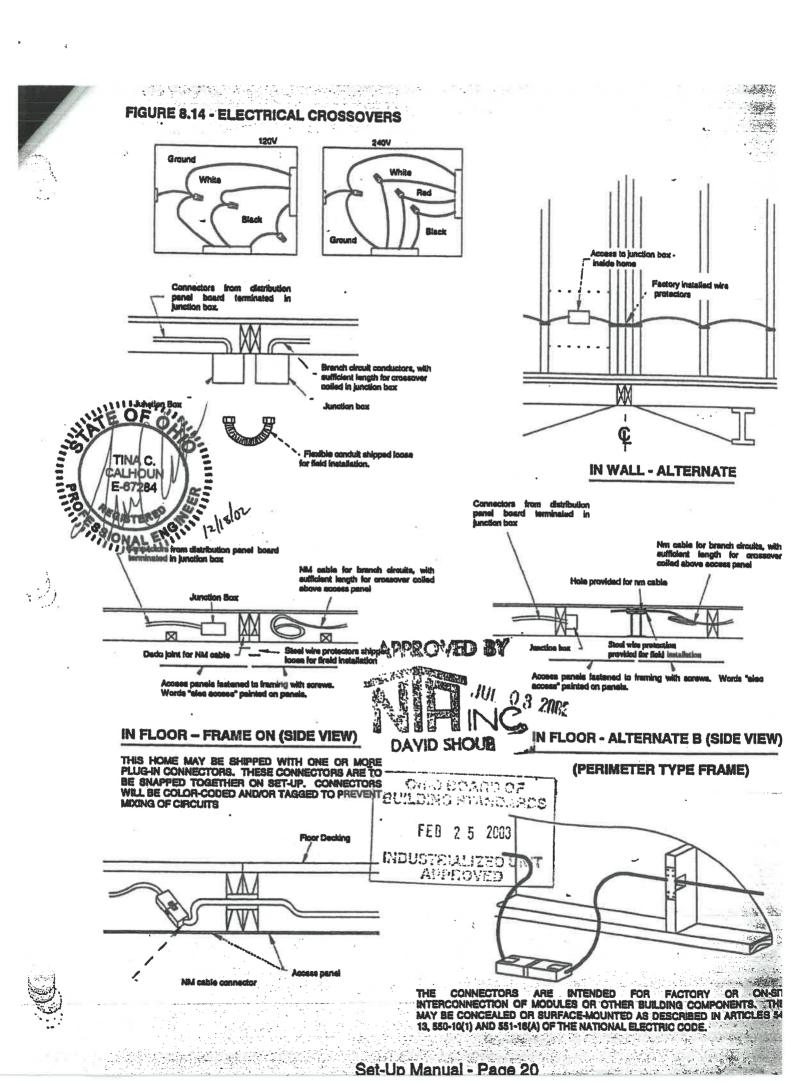
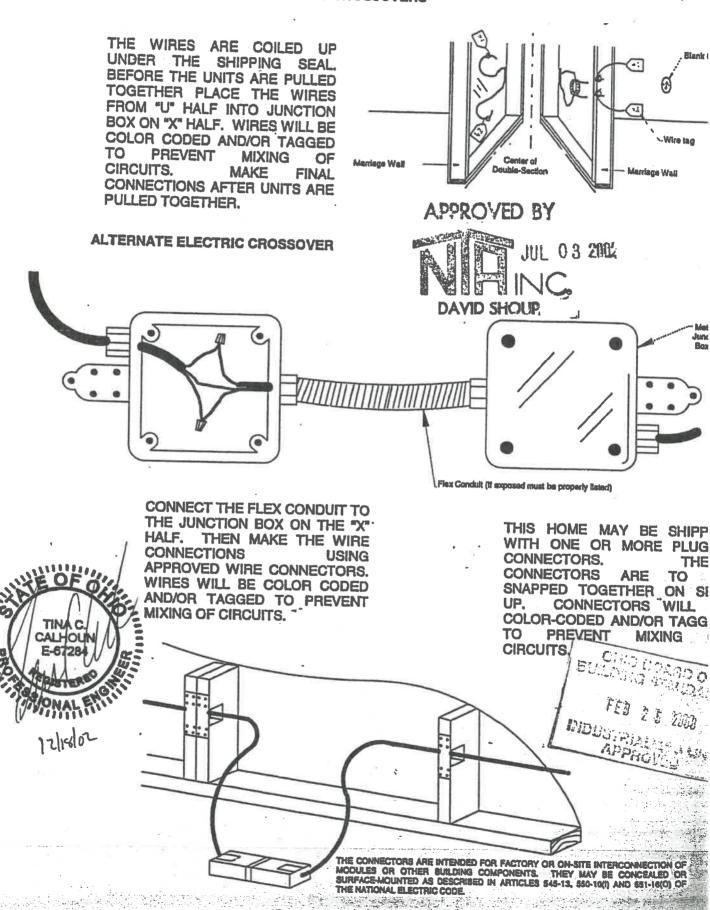


FIGURE 8.14 - TYPICAL ELECTRIC CROSSOVERS



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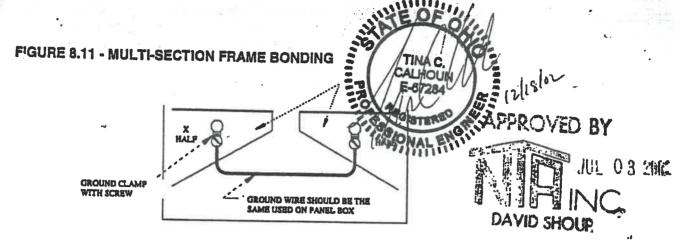


FIGURE 8.12 - TYPICAL UNDER CHASSIS FEED CONNECTIONS

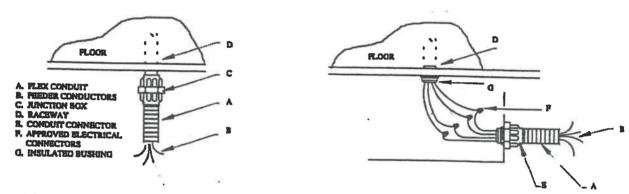
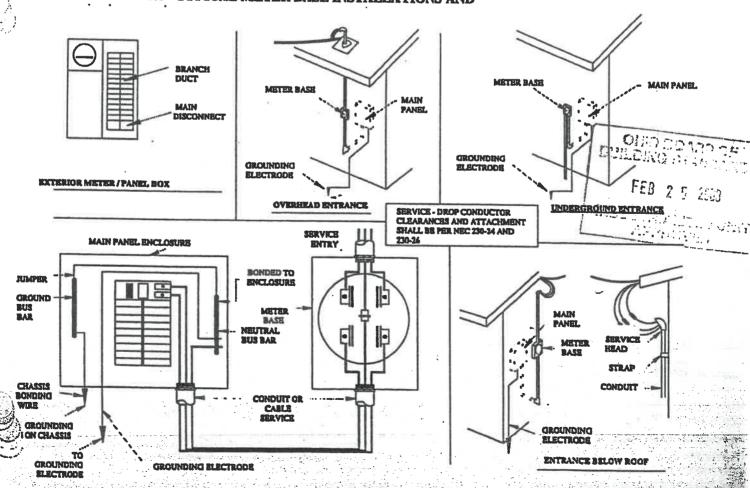
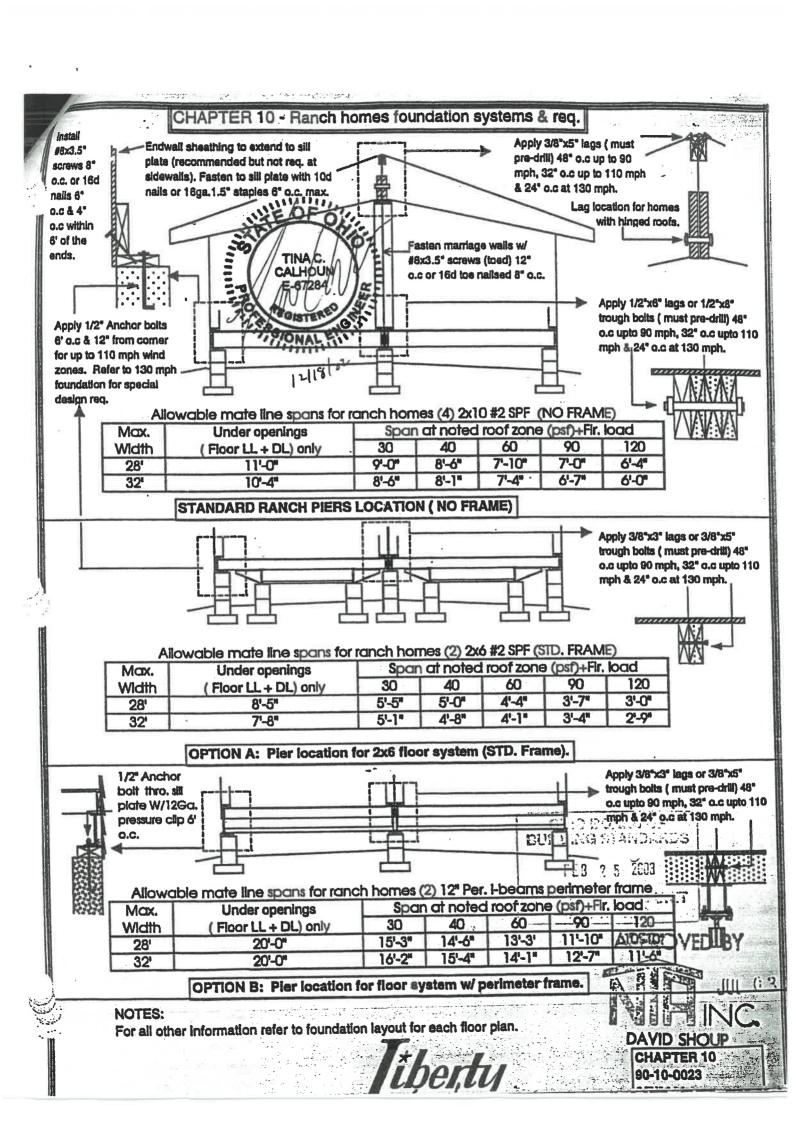
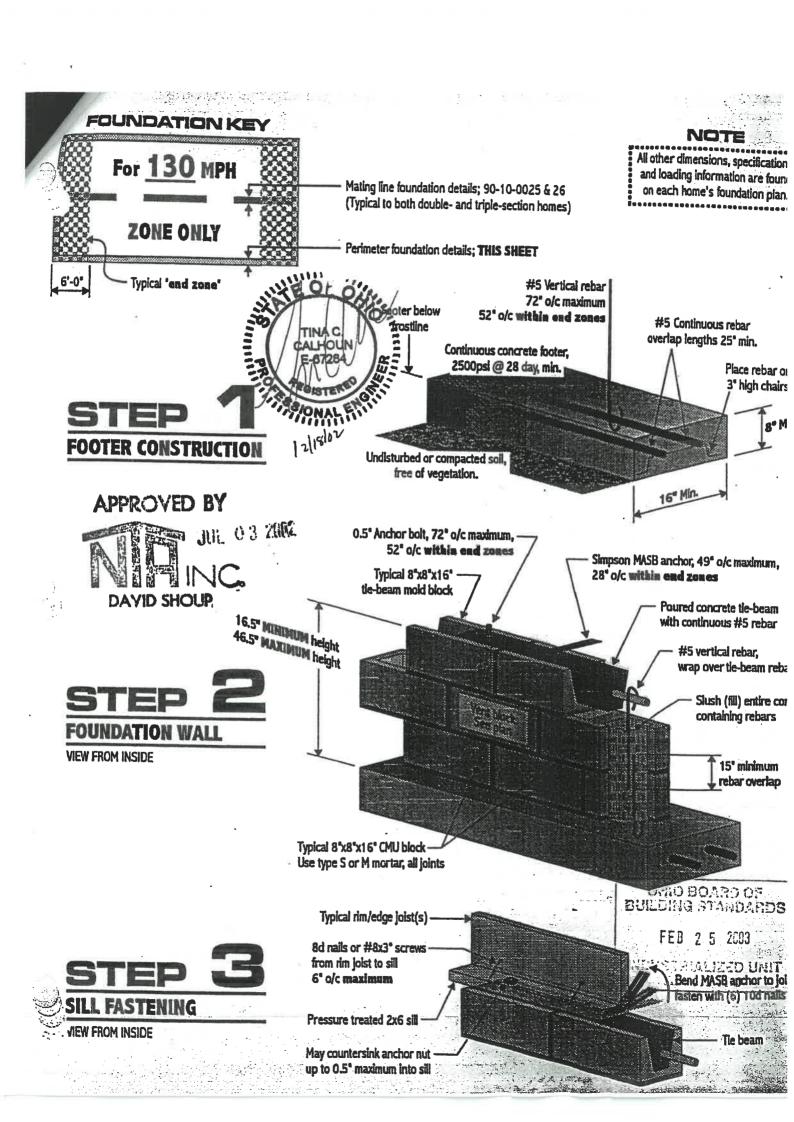


FIGURE 8.13 - TYPICAL METER BASE INSTALLATIONS AND

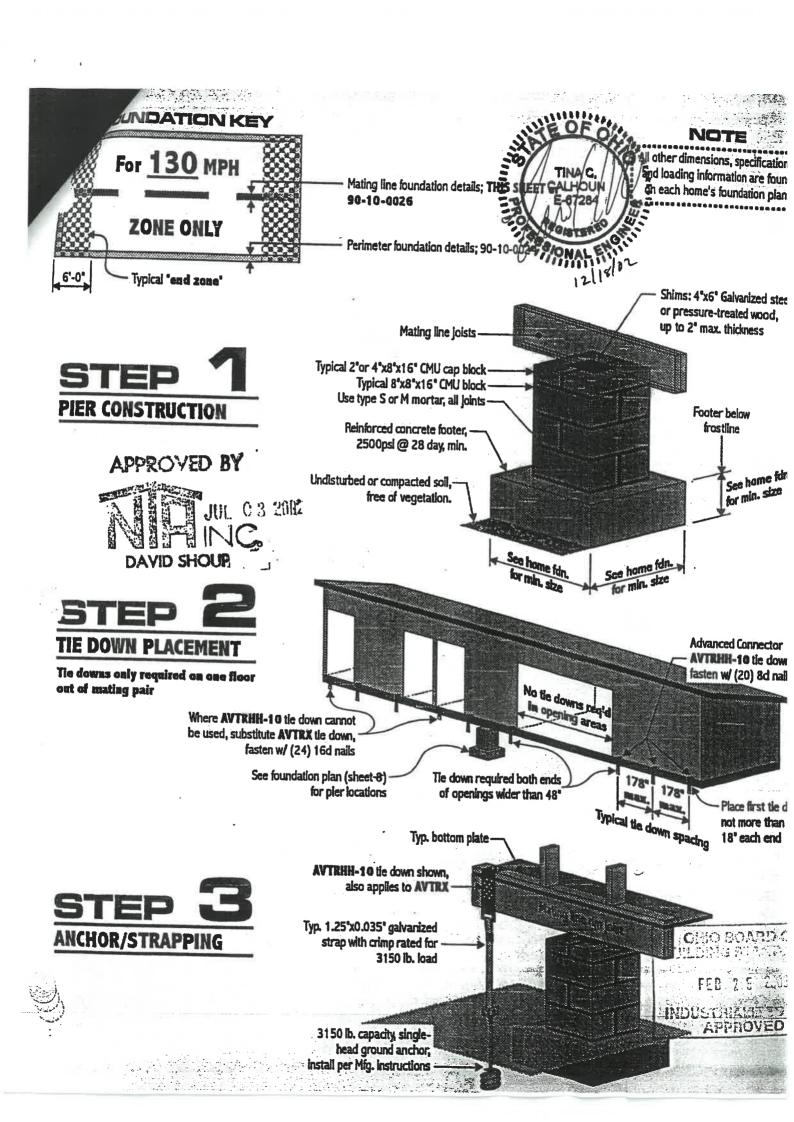




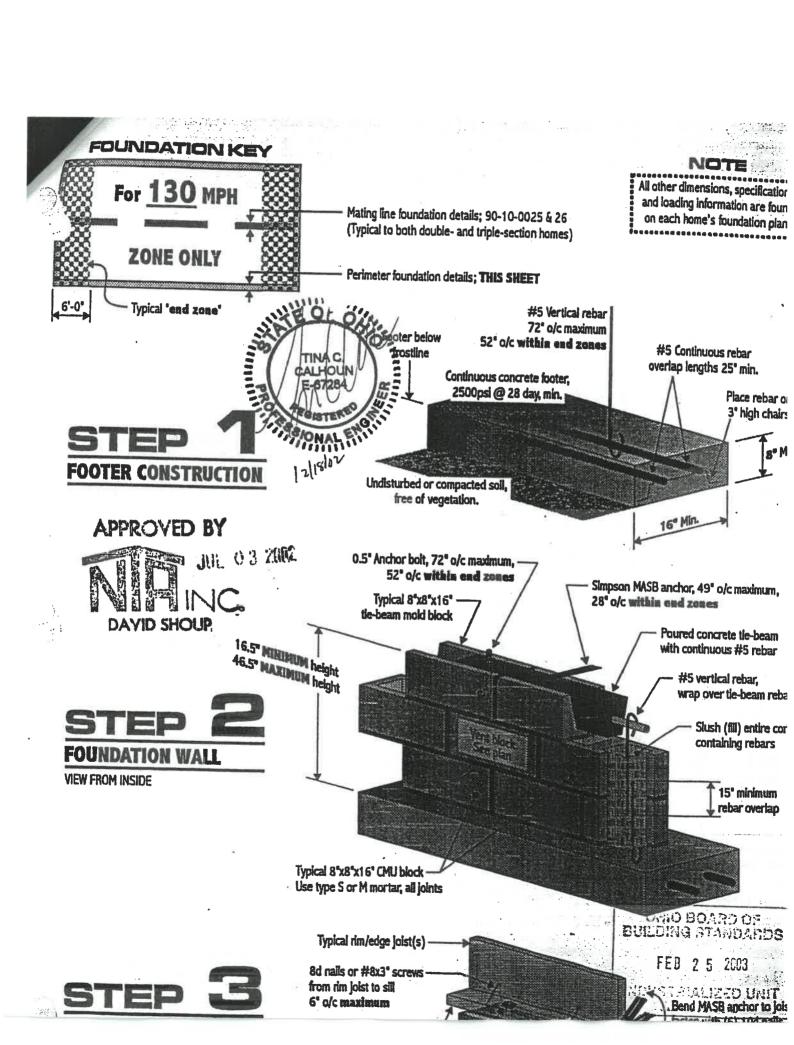




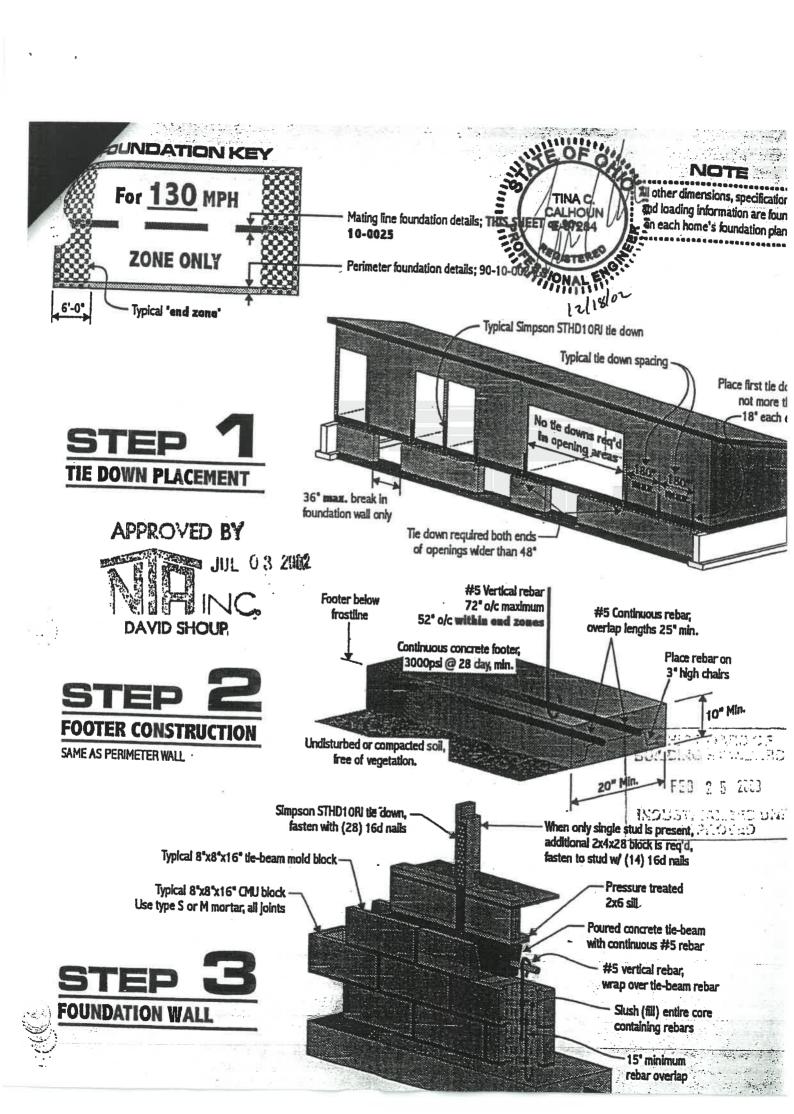






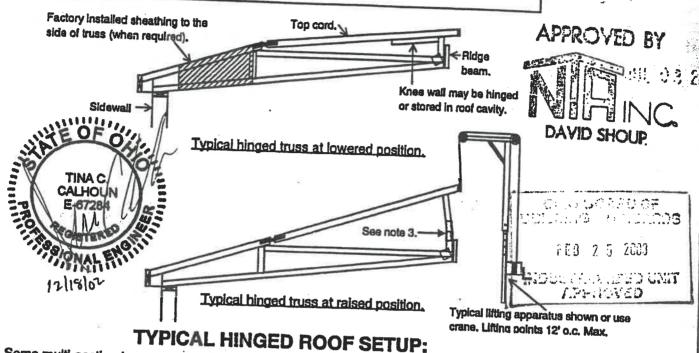








Chapter: 11 Completion of optional features: Hinged roofs



Some multi-section homes may have a hinged roof which will need to be raised and assembled prior to blocking.

Above figures and the following steps describe the setup procedure.

- 1) Remove all shipping materials from roof and marriage wall.
- 2) Roof must be raised simultaneously into position to allow the knee wall or king post installation. Lifting point to be 12' apart the length of the home.

 DO NOT OVER RAISE THE ROOF
- 3) Add a 2x block 10" long at each truss king post spilce, fastened W/ 3 #8x3" wood screw per end (see fig. 1).
- 4) At each gable end install a 2x4 diagonal bracing. This diagonal brace (1 per end) should be located approximately in the middle area of each section. Fasten the brace to end truss and the horizontal brace with (4) 8d nails at each end. See fig. 2 for details. This step is only applicable to hinged roofs at 110 mph or greater zones.
- 5) Sheath the end trusses at front and rear ends with 7/16" min. APA rated sheathing. Fasten sheathing to trusses with 6d nails 6" o.c to all truss framing members.
- 6) Check all interior trusses for factory installed sheathing (see fig. above). If non exist then skip to next step. However if this application exist, sheath the remainder of the truss(s) per step 4. Note: End trusses would always require complete sheathing at the ends.
- 7) Install all required roof vents and accessories to each manufactures installation instructions.
- 8) Unfold roof underlayment over truss hinge and install the ship loose portion of roof s see note3 for
 9) Refer to floor plan specific foundation layout for all applicable foundation req.
- 10) Follow Liberty's Installation instruction for all other requirements.

 Diagonal brace to horizontal brace connection must occur at a trus location at a distance approx.

 Location at a distance approx.

 equaling the king post ht.

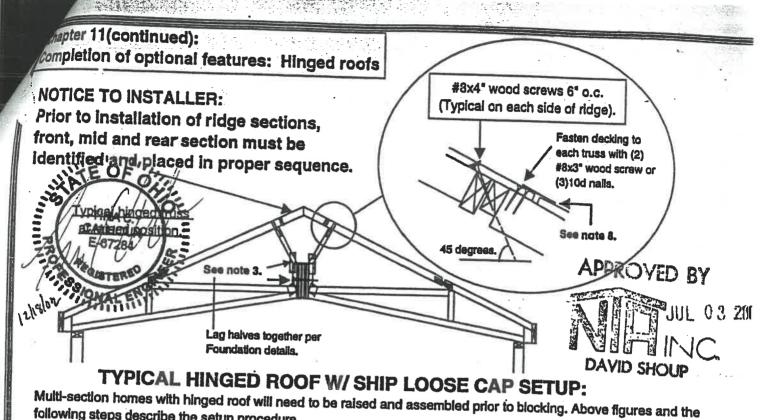
 cord of end truss w/ (4) 8d nails.

 splice requirements.

 2x4 SPF #3 diagonal bracing, located at each horizontal ceiling brace. Fasten to each ceiling brace & to uprights or top cord of end truss w/ (4) 8d nails.

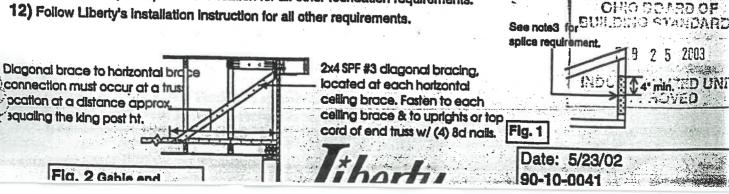
Fig. 2 Gable end

Date: 5/23/02 90-10-0040



following steps describe the setup procedure.

- 1) Remove all shipping materials from roof and marriage wall.
- 2) Roof must be raised simultaneously into position to allow the knee wall or king post installation. Lifting point to be 12' apart the length of the home. DO NOT OVER RAISE THE ROOF.
- 3) Use 2x block 10" long with 3-#8x3" wood screws at each end. See fig. 1.
- 4) At each gable end install a 2x4 diagonal bracing. This diagonal brace (1 per end) should be located approximately in the middle area of each section. Fasten the brace to end truss and the horizontal brace with (4) 8d nails at each end. See fig. 2 for details. This step is only applicable to hinged roofs at 110 mph or greater zones.
- 5) Sheath the end trusses at front and rear ends with 7/16" min. APA rated sheathing. Fasten sheathing to trusses with 6d nails 6" o.c to all truss framing members.
- 6) Check all interior trusses for factory installed sheathing (see fig. above). If non exist then skip to next step. However if this application exist, sheath the remainder of the truss(s) per step 5.
- 7) Fasten all ridge beams and or top cords at the mating line with lags per applicable foundation prints & Liberty's installation instruction manual
- 8) Install all ridge sections in place. Note ridge section with a decking opening (ridge vents when applicable) must be located toward center of home. It is very important to identify front, rear and mid sections for proper setup. After all ridge sections are positioned in proper sequence toe screws each side of ridge section to truss ties with #8x4" wood screws 6° o.c. (see figure above). Fasten decking to each truss with (2) #8x3° wood screw or (3)10d nails.
- 9) Add 4" wide x 30 ga. galv. strap running the length of the home. Fasten strap to roof with roofing nails or 16ga.x7/16"x1" staples 8" o.c. max. on each side of decking joint. Strap may be spliced as required.
- 10) Unfold roof underlayment over truss hinge and install the ship loose portion of roof shingles.
- 11) Refer to floor plan specific foundation for all other foundation requirements.
- 12) Follow Liberty's installation instruction for all other requirements.



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III. Liberty Homes

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Syracuse, IN 46567 State Road 13, P.O. Box 308

Corporate Offices: P.O. Box 35, Goshen, IN 46528

Design Codes: (Ohio)

2002 Otho Flumbing Code; 2002 National Electrical Code 2000 International Energy Conservation Code 1999 ORC One, Two, and Three Family Dwelling Code

Occupancy

Residential - Single Family Dwelling Construction Type: Wood Frame - Unprotected Number of Floors: Single Story

Design Loads

Roof Live Load: 46 p.s.f. max. (40 p.s.f. grd. snow load zones)
Alt. 69 p.s.f. max. (60 p.s.f. grd. snow load zones) Wind Zone: 90 m.p.h. Max. Roof Dead Load: 10 p.s.f. Floor Dead Load: 10 p.s.f.

Insulation

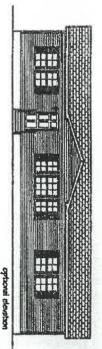
Floor Area: 1484 Sq. Ft.

R-8 Stem Foundation Wall Insulation (by others); R-19 in Exterior Walls; R-38 Roof Insulation (Window "U" Factor - .40 min.)

ATTENTION LOCAL INSPECTIONS DEPARTMENT:

- 1 Set-up instructions for the modular unit are included by attachments to these plans. Any plan set which does not include an attachment entitled "installation instruction Manual" are not complete.
- 2 The following items have not being completed by Liberty Homes, Inc. the compliance modular label. Code compliance must be determined have not been inspected by NTA Inc., and are not certified by the below floor plumbing, and electrical service entrance disconnect at the local level: on-site HVAC Systems (or a portion thereof),

supply and sewer system if these are available Note: This unit must be connected to a public water



Model No.:

Drawing Description Index

M3R56-507

Tage Number

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Basement Foundation Plan Encrey Compliance (crawispace) Energy Compliance (basement)	Loop HVAC Plan (basement) Crawispace Foundation Plan Typical Building Cross Section Optional Basement Entry	Pressure System DWV System Alt. DWV System DWV System Loop Heating/Cooling Calcs. Loop HVAC Plan (crawispace)	Typical Elevations Floor Plan Electrical Plan
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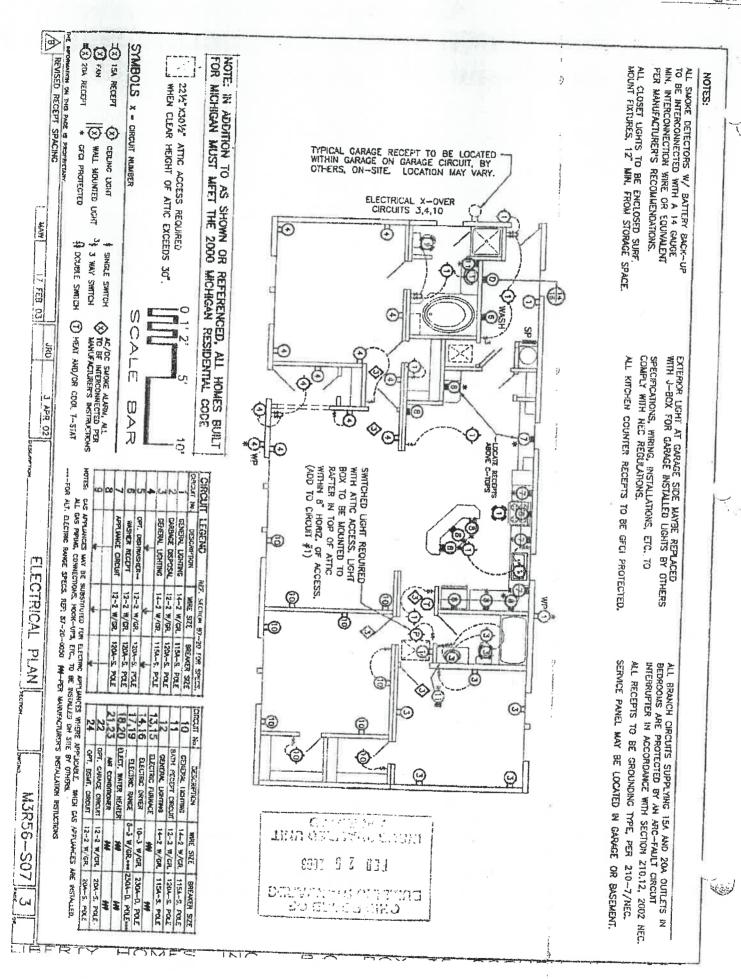
Setback Requirement!

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Exterior walls shall be located 3' min. from property line

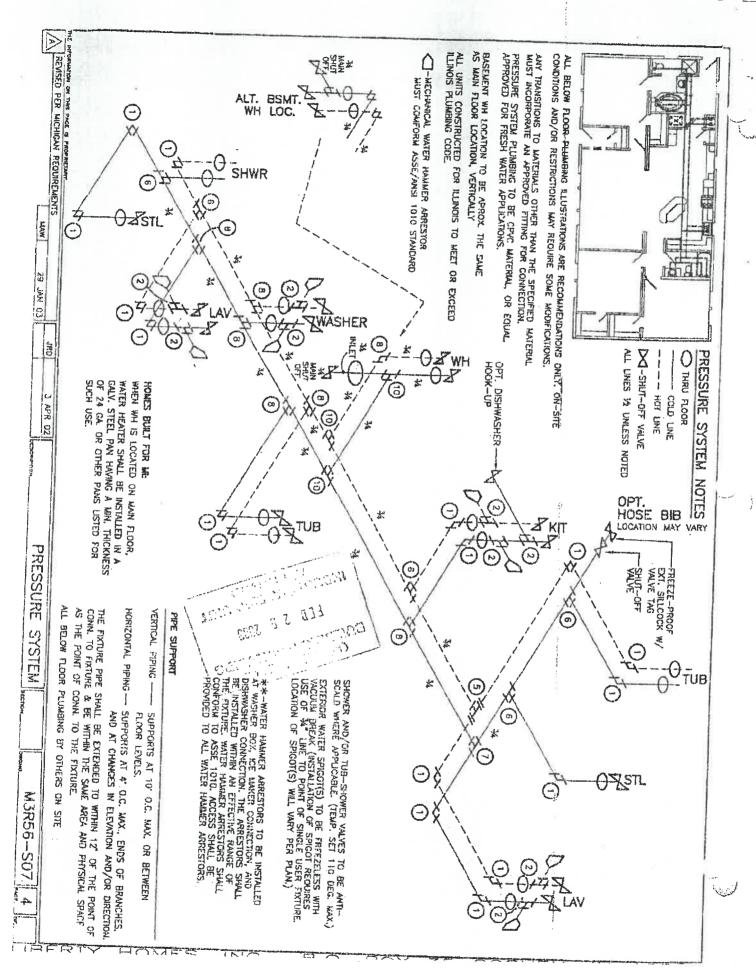
(note: include three print packages and one set-up manual with each home shipped)



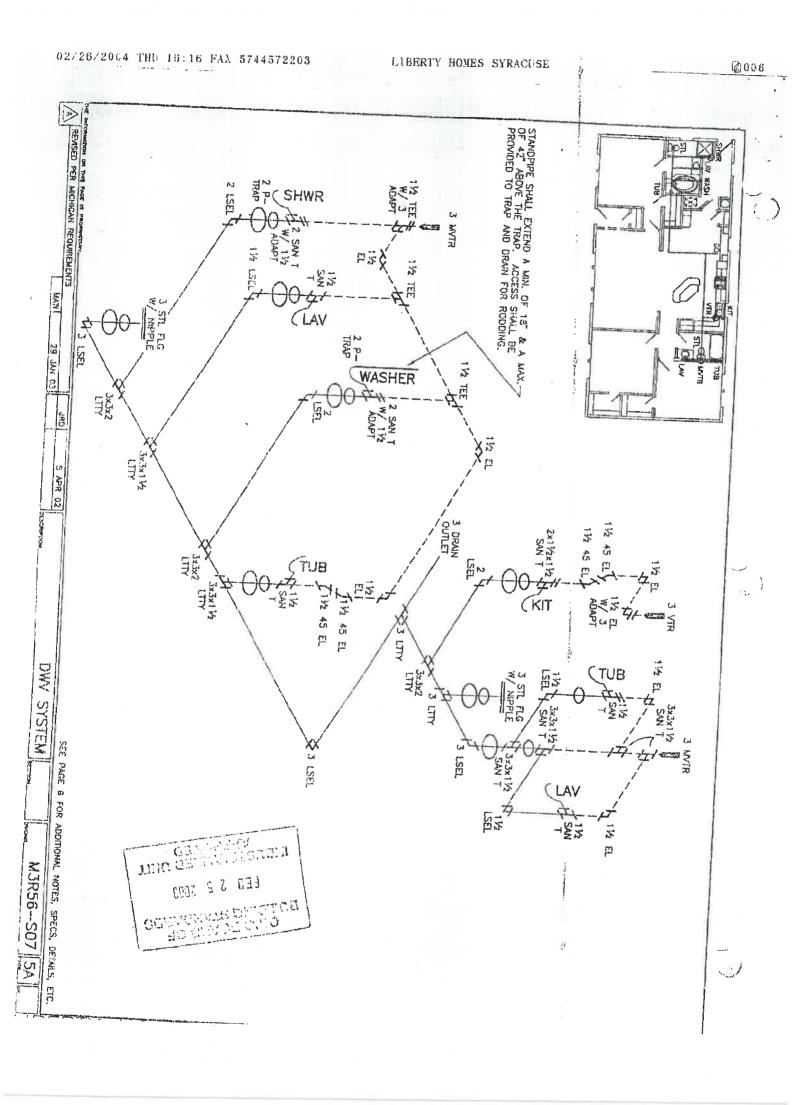


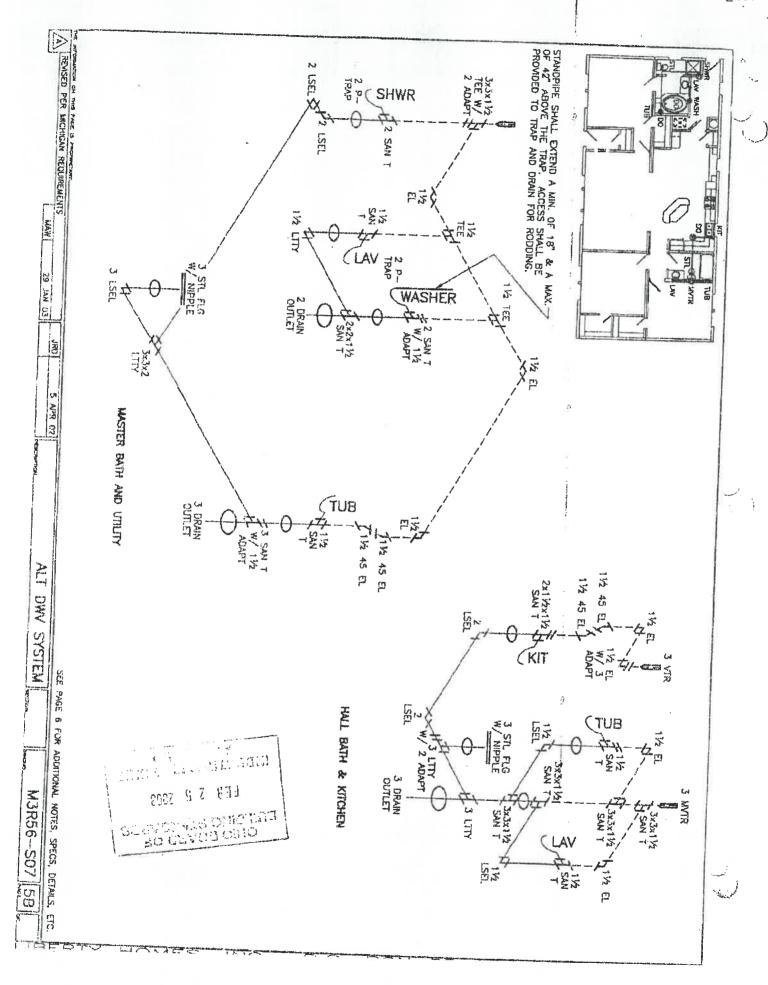
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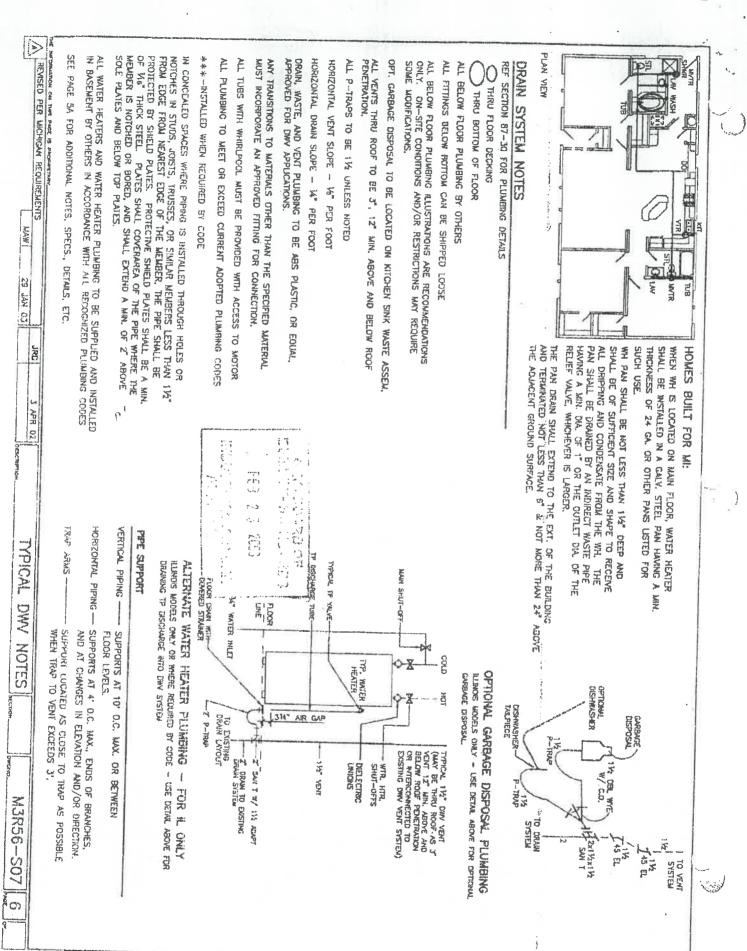












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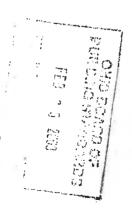
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COOPING

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APPLICATION ENGINEERING

Goshen, IN 46626 1101 Elsenhower Dr.

Manufacturer's Model #: M3R56-507(B)

Prepared By Lasaile-Air Systems 12/02/02 (Method & Output C 2002)
All rights reserved: this information proprietary to Lessile Bristol Co. & clients.

HEATING LOAD:

BEDBOOM 2

BEDROOM 2

E HIVE

DNINIG

UTILITY

FW ATAB

Kitchen

Sedroom #1

Model Butvil

SOOM NAME

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FLOOR:

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COOPERS FOVD!

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991 0

899'c

cooling equipment design standards.

ROOM BY ROOM VALUES

: bentupen als notialities

WINDOW, N OT TLOOF:

TOTAL WINDOWS AREA:

AVE CEILING HEIGHT:

OVERALL HOME SIZE:

THE OUTSIDE PERIMETER:

HET WALL AREA:

SSOT YOUR

New loss, hear gain and CFM requirements based on

MEATING

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ENTIRE HOUSE VALUES - DESIGN ZONE MI

Design calculations are based on worst case orientation. Room loads may very based on actual conditions. Celculations on this page are based on design parameters set to the in ASHRAE and ACCA Menusis Jand D.

HANC System Type: INFLOOR LOOP PER WITH BASEBOARDS

LIBERTY HOMES, INC. FOR HEATING AND COOLING

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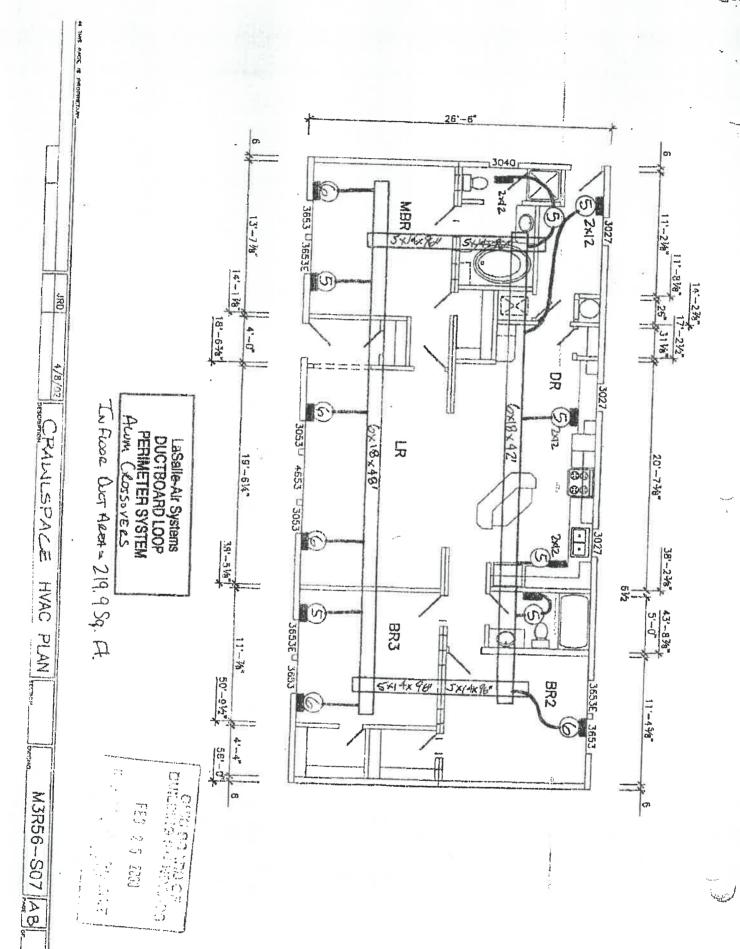
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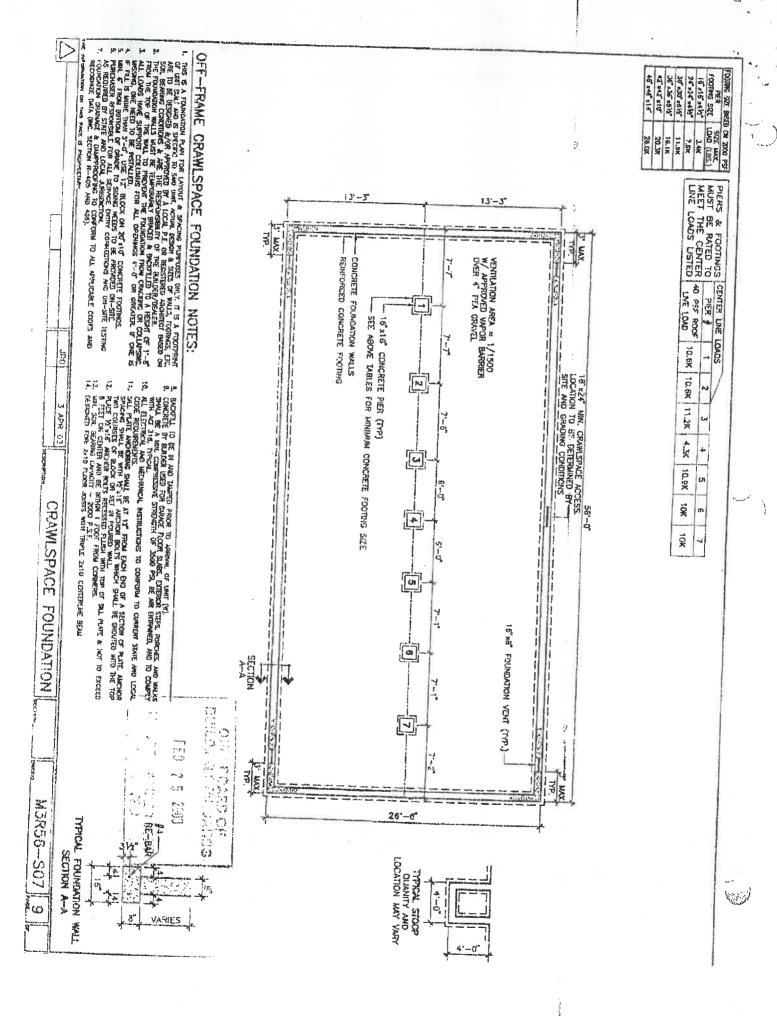
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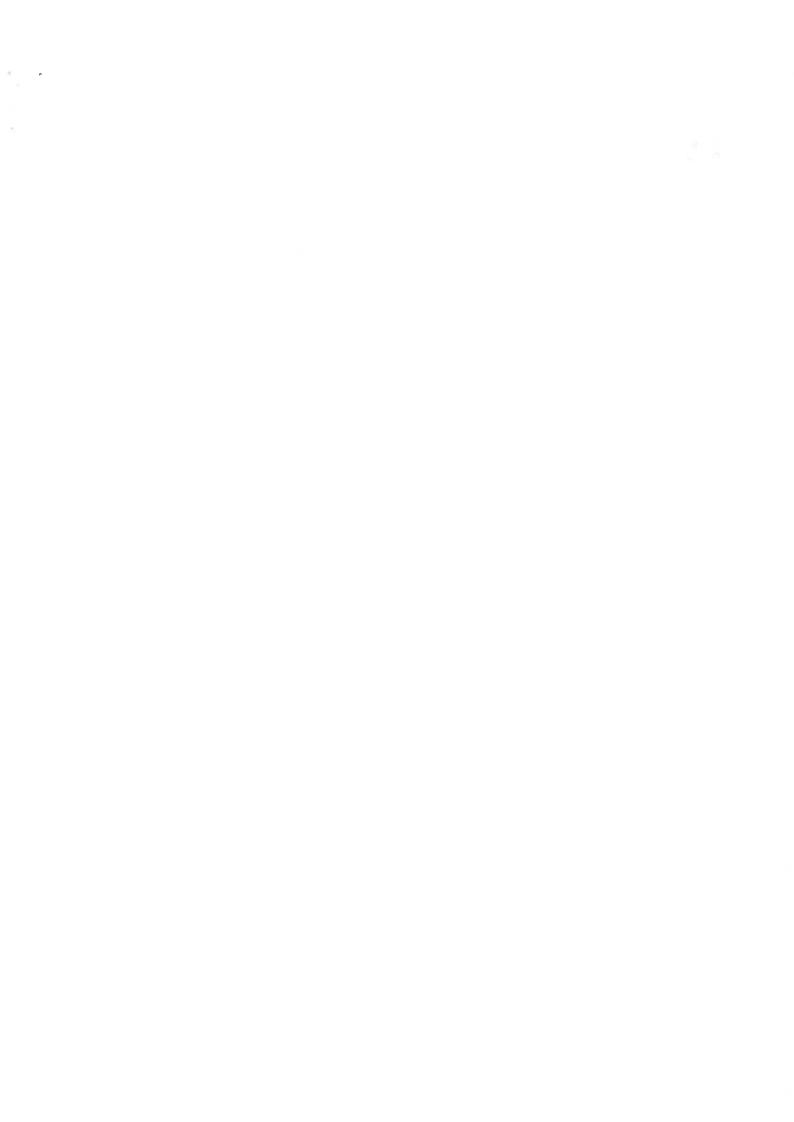
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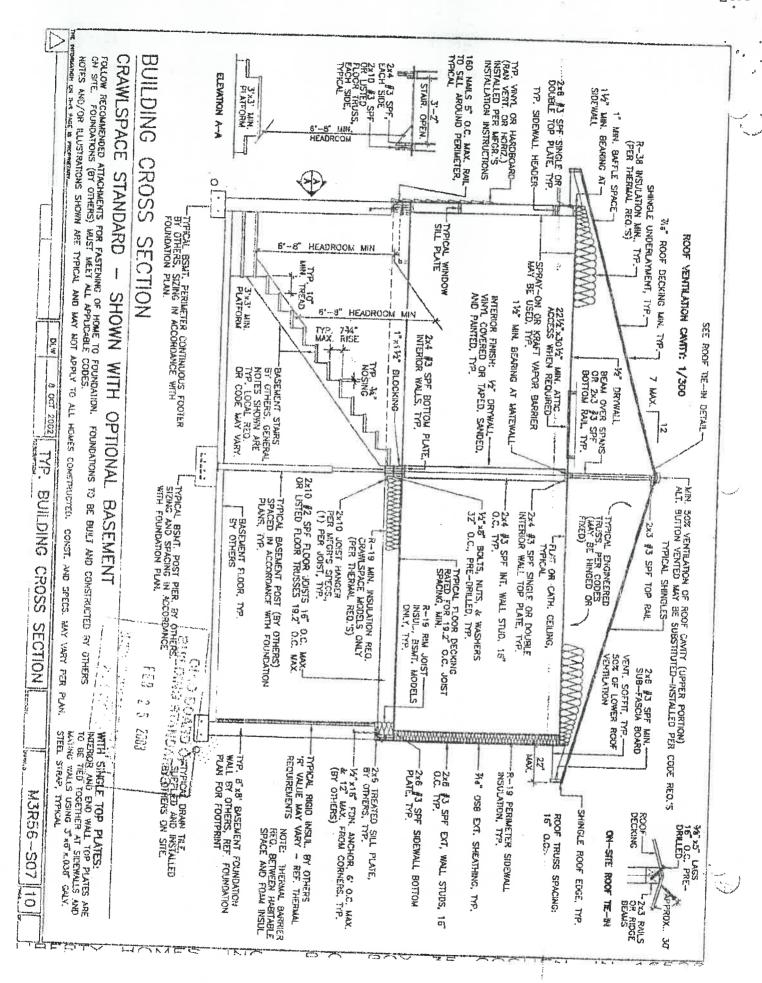
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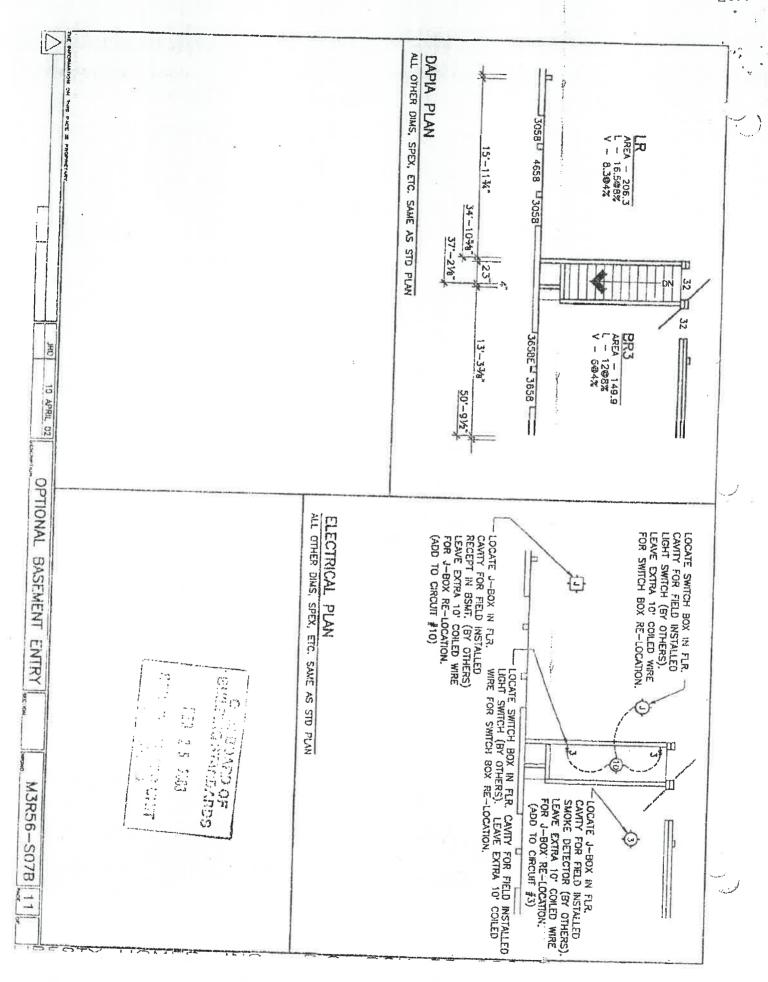
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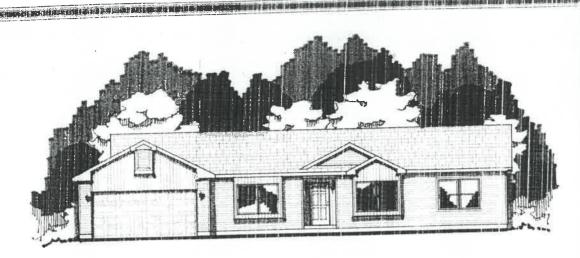








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THE LAPORTE

SPECS

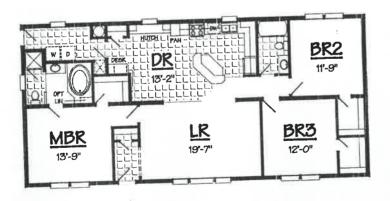
Model Number: A3M3R56-S07 Total Living Space: 1484 sq. ft.

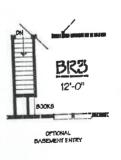
Bedrooms: 3 Baths: 2

Dimensions: 26'-6" x 56'-0"

HIGHLIGHTS

Showpiece cabinetry lines Kitchen/Dining Room Convenient island with raised snack bar Soaker tub highlights a cozy Master Bath Formal Foyer entrance with guest closet





Elevation is an Artist's conception and may show optional and/or site-installed features.





$S \cdot I \cdot f \cdot h \cdot D \cdot f \cdot R \cdot D$ $f \cdot f \cdot f \cdot f \cdot I \cdot U \cdot R \cdot f \cdot S$

SYRACUSE, INDIANA STANDARD FEATURES for PINEBROOK SERIES

EXTERIOR CONSTRUCTION

- FEATURES
 Double Four Dutch Style Vinyl Lap Siding - Durable and Attractive
- Vinyl Shutters on Doorside Windows - Adds to an Attractive
- Color Coordinated Finish
 7/16 OSB Backer Behind Viriyl
- Siding Helps Insulate All Wood 2 X 10 Floor Joists with Double Rim - Provides a Solid Foundation
- Tongue & Groove 3/4" OSB Floor
- Decking Wood 2 X 6 Sidewall Studs 16" On Center with 2 X 6 Top & Bottom Plates - Solid Exterior Wall
- Construction
 Low E Vinyl Clad Thermopane
 Windows With Grids Energy
- vviii.coms vviiin Grids Energy,
 Efficient and Easy to Clean
 Deep Wincows in Most Areas Allows More Light Into Home
 Steel 6-Panel, 2-Lite Front Door
 with Full View Flange Seal Storm
 with Plywood Jambs Attractive
 Yet Well Insulated Yet Well Insulated
- Steel 9-Lite Rear Door with Full View Flange Seal Storm with Plywood Jambs - Attractive & Well
- Dead Bolt Locks for Greater Security
- Attractive Exterior Light at Each Door - Provides Light and Enhances Safety.
- Exterior Frost-Free Faucets (2) for Landscaping Applications
- Exterior Electrical Receptacle
 With a GFI for a Safe Exterior Electrical Supply

ROOF CONSTRUCTION FEATURES

- Twenty-Five Year Warranty Fiberglass Shingles Gives the
- Owner a Low Maintenance Home Twelve Inch Eaves with Ventilated Soffits – Helps Protect Home from the Weather and Provides Ventilation
- Residential 5.5/12 Roof Pitch -Acds Beauty to Your Home's Exterior

- INTERIOR FEATURES

 25 oz. Ritzy Plush Carpet in Living Areas - Adds Beauty to Your Decor
- High Density Carpet Pad -Reduces Carpet Wear
- Vinyi Floor Coverings in Kilchens and Most Baths - Name Brand Elegance and Durability

- 2. Mini Blinds Throughout Help: Regulate Natural Light
- Hand Brushed 8' Flat Ceilings Throughout
- Interior Walls 2 X 4 16" OC Ceiling & Wall Seam Drywall Finished - Creates a More
- Attractive Appearance
 1/2" Taped & Finished Gypsum
- Wall Covering Throughou
- Vinyl Entry Helps Protect Carpeted Areas Glass Chandeller in the Dining Room Touch of Elegance
- Vented Metal Shelving in All Wardrobes Durable yet Attractive Bedroom Overhead Lights -
- Illumination at the Flick of a Switch Glass Light Fixtures Throughout --
- Brightens the Home's Interior 6-Panel Passage Doors; with Lever Hardware, Heavy Duty Hinges and Wrapped Door Jambs - Adds Life
- to Your Home Plumb for Washer/Wire for Dryer
- Ready for Your Laundry Appliances Metal Furnace Door in Most Models For Easy Access
- Guest Closet in Most Models For Your Visitor's Coats
- Rocker Light Switches Silent and Easy Operation
- Wide Door Casing on Interior Doors Classic Look with a Touch of
- Overhead Cabinet in Laundry Area

KITCHEN FEATURES

- 30° Gas Range with Microwave Exhaust Hood a Quality National Brand Range with Light Provided for the Cooking Surface
- 16 Cubic Foot Double Door Frost Free Refrigerator.
- Real Oak Cathedral Top Cabinet Doors and Face Frames with Upgrade Hinges – the Beauty and Durability of Real Oak
- Drawers Over Doors in Kitchen Base Cabinets With Silent Glide Drawer Guldes Storage Drawers in Gonvenient Locations Deep Cabinets with Cabinet Crown
- Molding and Finished Interior Kilchen Base Cabinets Extra Storage with the Finished Look
- Adjustable Shelves in Overhead Cabinets - Allows Individual Height Settings Dishwasher
- Cabinet Over the Refrigerator Convenient Extra Storage

- Brite Star White Sink with Cutting
- Board White Delta Single-Lever Faucet
- with Sprayer . Decorative Wood Edged .
- Countertops with 4" Backsplash & Wood Cap Sturdy Elegance with the Decorative Look
- Pantry in Most Models Spacious Storage for a Family's Provisions

- BATH FEATURES
 One Piece Fiberglass Tub in Second Bath - Easy to Clean Elegance
- Delta Single-Lever Anti-Scald Shower & Tub/Shower Diverter Large Walk-In Shower In the Master
- Bath with Tempered Glass Door Porcelain Bathroom Sinks with Delta Single-Lever Faucets & Pop Up Drains - Heavy Duty Yet
- Elegant Real Oak Cathedral Top Cabinet Doors and Face Frames with Upgrade Hinges - the Beauty of Real Wood in the Bathrooms
- Decorative Wood Edged
 Counterfops with 4 Backsplash & Wood Cap Durability and
 Protection for Wall Surfaces
- Bath Vent Fans with Light in all Baths - Promotes Air Circulation and Removes Humidity
- Linen Cabinets in Most Baths
- Extra Storage for Towels Medicine Cabinets in all Baths Storage Area for Personal Items
- Decorative Mirrors and Decorative Lights in all Baths - Adds Illumination and Elegance
- Bathroom Towel Bars and Papel Holders the Finishing Touch
- Single-Lever Faucet with Anti-Scald Control on All Shower & Tub/Showers

ENERGY, SAFETY AND OTHER

- QUALITY LIVING FEATURES Insulation in the Roof (R38) &
- Exterior Walls (R19) Superior Energy Efficiency
- Perimeter Baseboard Heat Registers
- Smoke Detector(s) in Each edroom & Adjacent Rooms
 00 Amp Electrical Panel Box with
- All Copper Wiring Water Line Shut-Offs Throughout Shut Off Water to a Specific

IN-A320 Issued: 09/09/02 Revised: 07/01/03



. 592-2801 maps Lanzer

NEW HOME AND ADDITION	ON PERMIT APPLICATION
DATE 3/2/04	BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, DEMOLITION, REMODELING,
JOB LOCATION OR	NERS OF HALMONY & GLENWOOD
LOT # 35 36 SUBDIVISION NAME	SRICKYARD
OWNER H.A.R.C.	PHONE 599 2892
OWNER ADDRESS 35 E. MAUMER	CITY NAPOLEON ZIP 43545
CONTRACTOR - SELF MEL LANZER CO	PHONE (419) 592 - 2801
CONTRACTOR ADDRESS 2266 N. Sott S	CITY NAPOLEON ZIP 43545
CONTRACTOR FAX # (419) 599 2861	CELL PHONE (Opt.)
DESCRIPTION OF WORK TO BE PERFORMED:	HOUSE CONSTRUCTION
ESTIMATED COST OF WORK TO BE PERFORMED: \$\dagger\$	
WORK INFORMATION	
BUILDING: Basement Floor Area Sq.	Ft. 1st Story Living Area 1484 Sq. Ft.
2-1F1 r	Ft. Garage Floor Area 576 Sq. Ft. 2 College
DIHI DDIG GOT - ROLL	54.1.554
Masonry Contractor TPI- AREA FAVER SUKES TO	
Address 03460 US RT 20 City Epon	Priorite (414) 437 4343 Fax St OH Zip 43518 MS
Electrical Contractor Address	PhoneFax
City	St Zip hid to
Plumbing Contractor City	Phone Fax WSS
Honting Courts	St Zip 5£ 720
Address City	Phone Fax
Insulation Co.	
Address City	Phone St Zip
Other Contractor attach information.	
ZONING INFORMATION (to be completed by City): District Lot Area EPSP EVSP	Lot Dimensions
ZONING INFORMATION (to be completed by City): District Lot Area FRSB SYSB RYSB by signing below agree to comply with all applicable City of Napoleon Codes & Ordinances while performing the	Lot Dimensions Max Htft Max Cov%
ZONING INFORMATION (to be completed by City): District Lot Area FRSB SYSB RYSB by signing below agree to comply with all applicable City of Napoleon Codes & Ordinances while performing the by the building inspector of the City of Napoleon. Applicant Signature	work herein described. I understand that all work for which a permit is issued is required to be approved
by the building inspector of the City of Napoleon. Applicant Signature	Lot Dimensions Max Htft Max Cov% work herein described. I understand that all work for which a permit is issued is required to be approved Date
by the building inspector of the City of Napoleon,	work herein described. I understand that all work for which a permit is issued is required to be approved
by the building inspector of the City of Napoleon. Applicant Signature	work herein described. I understand that all work for which a permit is issued is required to be approved

RESIDENTIAL PLAN CORRECTION SHEET

CITY OF NAPOLEON 255 West Riverview Ave.	ADDENDUM TO PERMIT NO. 2053 Owner Henry Co. Aveg Retarded City	2005
Napoleon, Ohio 43545 (419) 592-4010	Location 980 Harmony Dr	ŧ
Please note the items <u>checked below</u> and incorporate the [] Permit not yet issued, correct Plans and re-suhmit. [] Permit issued, incorporate items during construction		
GENERAL		
Provide approved smoke detector(s) as req'd. Provide 1/2" gypsum wallboard between dwelling and garage, on garage side.	 Show size of members supporting porch roof. Provide double top plate for all bearing partitions and exterior walls. 	
Provide min. 1-3/8" solid wood door from	Provide design data for prefab wood truss.	
garage to dwelling (or equal). Submit fully dimensioned plot plan.	Ceiling joists undersized in Roof rafters undersized in	
Provide min. of 1 - 3' 0" x 6' 8" exit door. Provide min. 22" x 30" attic access opening. Provide min. 18" x 24" crawl space access	PLUMBING AND MECHANICAL	
opening. Provide approved sheathing or flashing	Terminate all exhaust systems to outside air. Insulate ducts in unheated areas.	
behind masonry veneer. Provide min. 15# underlayment on roof. Provide adequate fireplace hearth.	Yrovide backflow prevention device on all hose bibs. Y Terminate pressure and temperature relief valve	
Install factory built fireplaces/stoves according to manufacturer's instructions.	drain in an approved manner. Provide dishwasher drain with approved air gap	
Terminate chimney 2' above roof or 2' above highest point of bldg within 10' of chimney.	device. EGRESS WINDOWS	
LIGHT AND VENTILATION	All bedroom windows shall have a min. net clear opening	
Provide mechanical, exhaust or window in bathroom Provide min. Per factory sq. in. net free area attic ventilation.	width of 20" and a min. net clear height of 24". First floor bedrooms windows shall have a min. net clear opening of 5.0 s.f Second floor bedroom windows shall have a min. net clear opening of 5.7 s.f.	
Provide min sq. in. net free area crawl space ventilation.	ELECTRICAL Show location of service entrance panel and	
FOUNDATION Min. depth of foundation below finished	service equipment panel. G.F.C.I. req'd. on temporary electric. Outdoor, bathroom, and garage recepticles	
grade is 36". X Min. size of footer 8 "x 16 ". X Provide anchor bolts, 1/2" @ 6' o.c. 1' from	shall be protected by G.F.C.I. Max. number of recepticles permitted on a G.F.C.I. circuit shall be 10 for 20 A.	
each corner. Embedded 7" in concrete and 15" in masonry. Show size of basement columns.	circuits and 7 for 15 A. circuits. Refrigerators, microwaves, washers, disposal, furnace and air conditioners shall be on	
FRAMING	separate circuits. INSPECTIONS	
Show size of wood girder in Provide design data for structural member in Floor joists undersized in Provide double joists under parallel bearing partitions. Provide I " x 4" let in corner bracing,	The following indicated inspections are req'd. The owner or his agent shall contact the City Bldg. Dept. at least 24 hrs. prior to the time the inspection is to be made. Footer & setbacks Foundation Electrical rough-in Electrical - final	
approved sheathing, or equal. Show size of headers for openings over 4' wide	Plumbing rough-in Plumbing - final Electrical service Building sewer HVAC rough-in Final building	
Additional corrections/comments:	X Other toundation supports	
The emproval of Plans and Specifications does not norm	nit the violation of any Section of the Building Code or other City Ordinance.	
This addendum is attached to Permit No. 2053 a	nt the violation of any section of the Buttaing Code or other City Ordinance. and made a part thereof.	
Date $3 - 10 - 04$ λ approved () disapp	proved Checked by 19714	

PLANCORR, SAM05/03/95

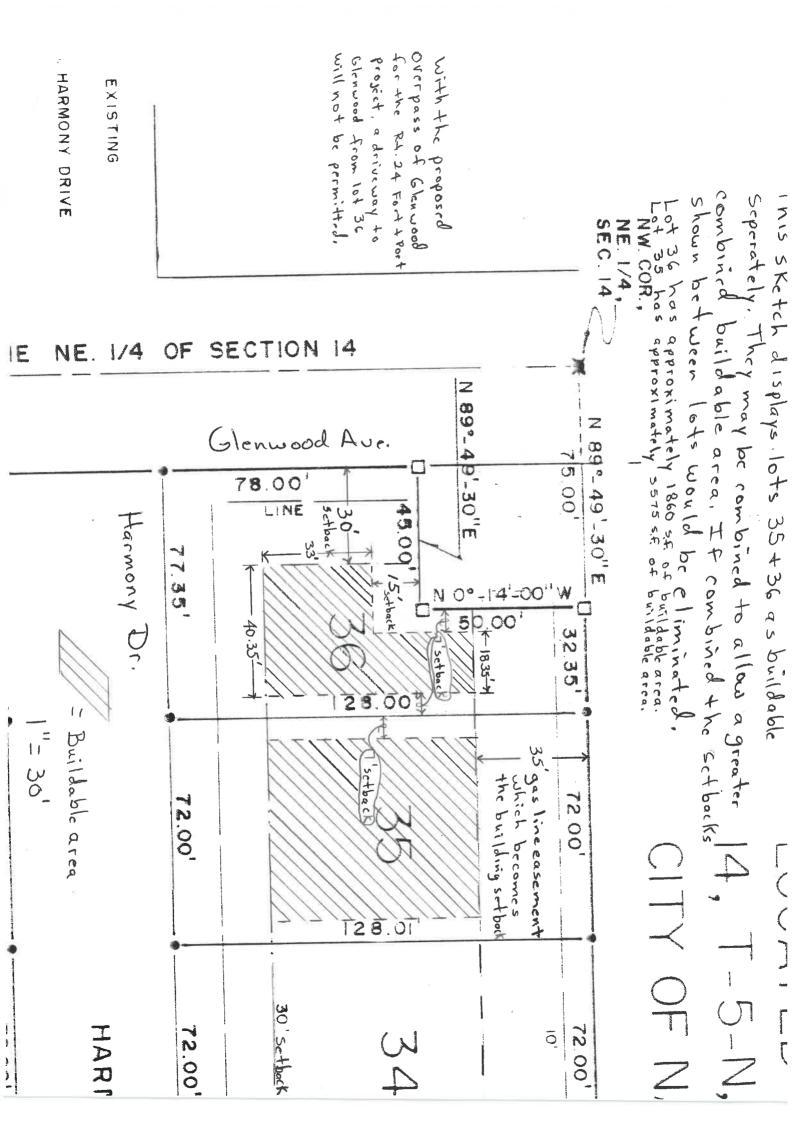
City of Napoleon

Water Meter Yoke Release Form

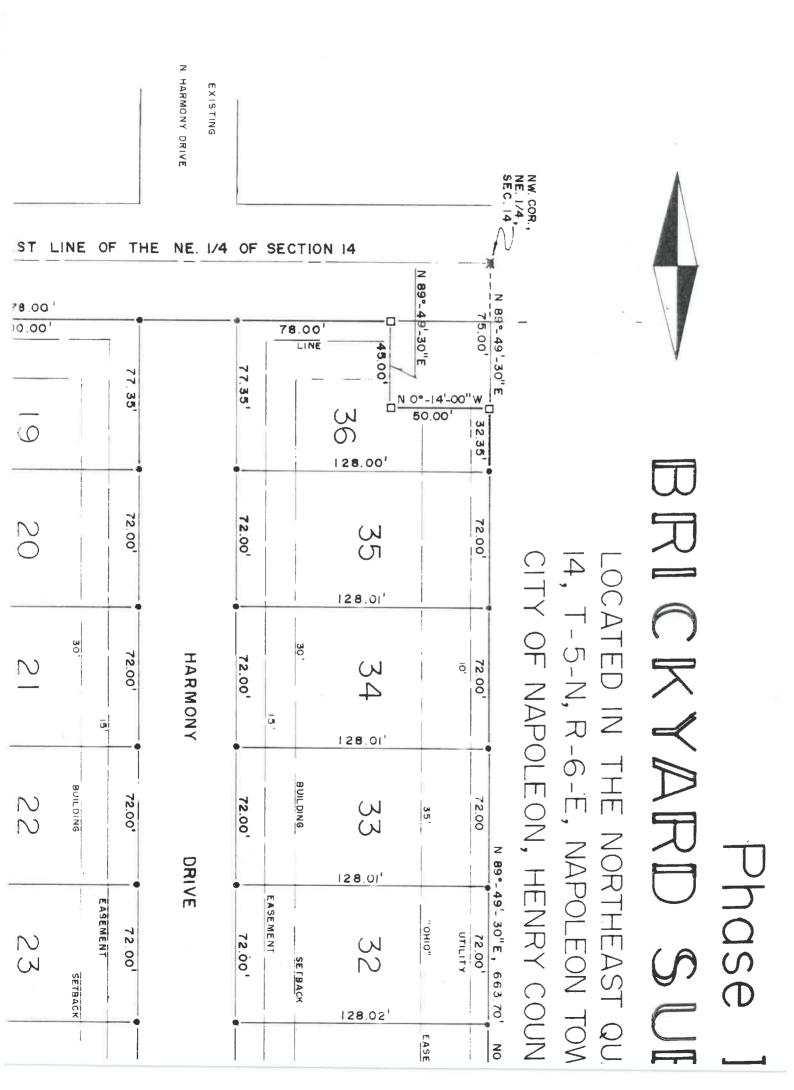
THIS DOCUMENT ENTITLES THE HOLDER TO "ONE" WATER METER YOKE ASSEMBLEY (Please pickup at City Operations Department 1775 Industrial Drive).

		_	/ - / -	
Permit #002053				
Date Issued: 03-09-2004				
Job Location: 980 HARMONY DI	₹			
Owner: HARC				
Address: 135 E MAUMEE ST	NAPOLEON, OH 43	3545		
Owner Phone: 419-599-2892				
Contractor: TRI-AREA ENTERPR	USES INC.			
Address: 03460 US 20	EDON OH, 43518			
Phone: 419-459-4343				
Water Tap Size 1"			Other	
Water Meter Yoke Size 5/8"	<u></u>	1"	Other	
New Structure X	Existing Structure	La	wn Meter	-
WATER SERVICE LINE TO BE TYP	E "K" COPPER OR "CTS'	' POLYETHELENE	TUBING OF 1" MINIM	IUM SIZE.
Backflow Device Required Yes No				
Type of Backflow Required: Double Check value assembly.				
Water Meter Yoke Installation is su	abject to the following co	onditions		
 Must be located in an accessible area. Must be in an area which is not subject to freezing temperatures. Must be at least 18" above floor level (no crawl space installations). Must comply with minimum mounting requirements (drawing available) 				
Issued By Received By				
1 Copy to: Building Dept.				

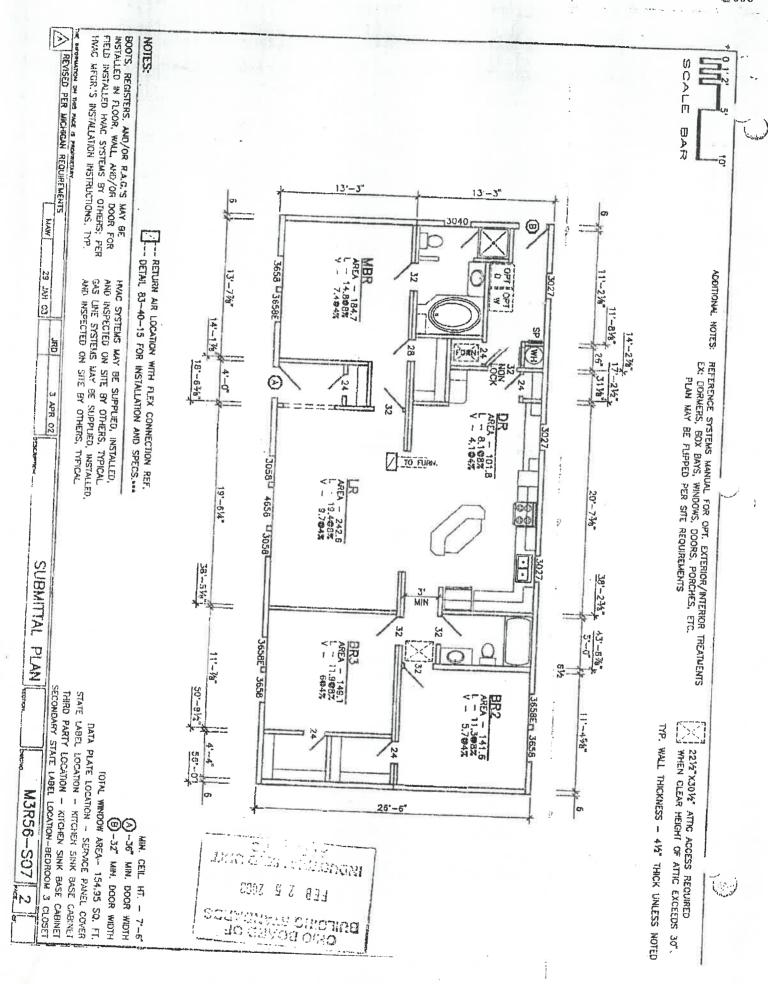














CITY OF NAPOLEON WATER TAPPING PERMIT FORM

PERMIT #:	ISSUED:
JOB LOCATION:	
SUBDIVISION NAME:	LOT #:
OWNER: HARC	
ADDRESS: 980 HARMON	4
CONTRACTOR:	PHONE:
TAP SIZE: 1" X 1.5"	2 " OTHER
AMOUNT PAID:	YOKE SIZE:
PLUMBING CONTRACTOR:	PH:
DATE OF TAP: 4-12-04 OI	D TAP #: NEW TAP #:
SIZE AND KIND OF MAIN:	12" C-900
	L of North CURB DEPTH OF MAIN: 5'
DIST FROM HYDRANT\- 58	E of Hyd dist to curb stop from corp: 4'
6 1 1 1 2 2 2 2 2 2 2 2 2 2 2 3 2 3 2 3 2	
thingo T	
- 58 -	
	HARMONY
	F f f f f f f f f f f f f f f f f f f f
DATE APPROVED: June 21,0	24 BY: fffye marky

