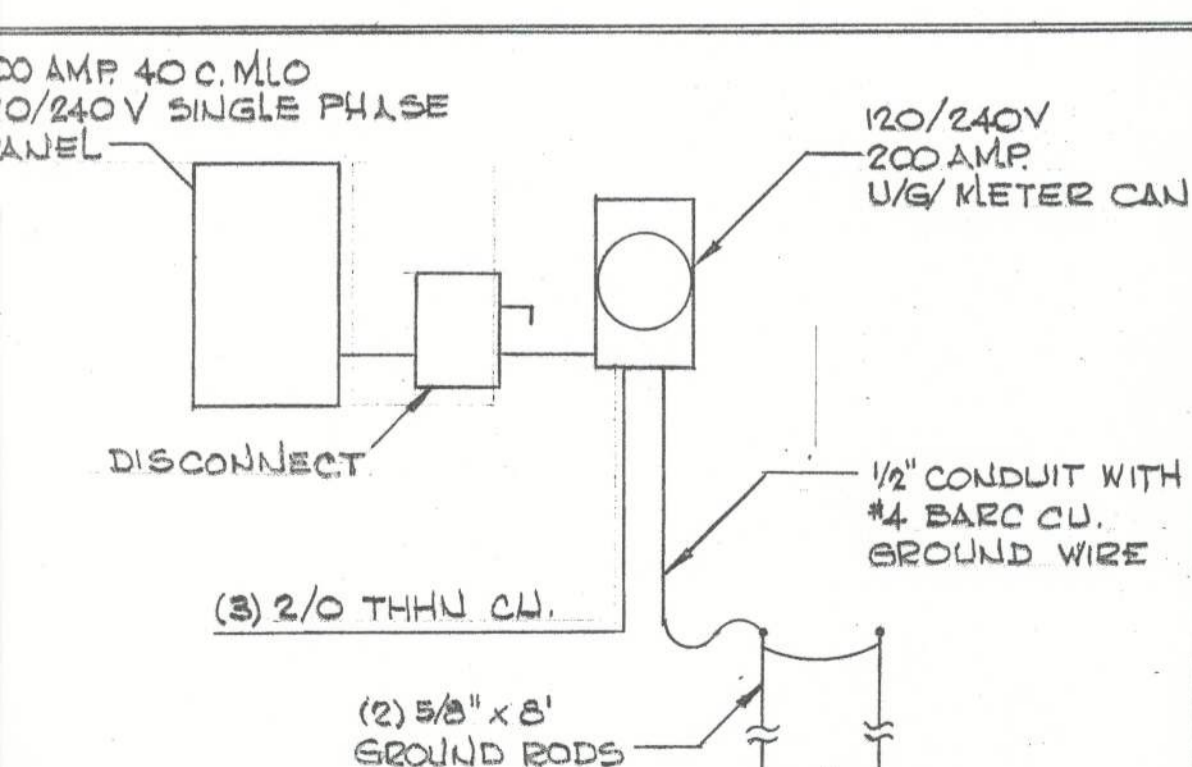


ELECTRICAL PLAN



ELECTRICAL RISER DIAGRAM

ELECTRICAL SYMBOLS			
S	LIGHT SWITCH - SINGLE POLE	RECEPTACLE, 230VAC	
S <sub>3</sub>	" - 3-WAY	ALARM, SMOKE/FIRE	
⊗	FIXTURE, CEILING MTD	TV JACK	
⊗	" " " " RECESSED	TELEPHONE/COMPUTER JACK	
⊗	" " " " WALL MTD	FAN, CEILING MTD, EXHAUST	
⊗	" " " " SUSPENDED	FAN, CEILING MTD, RECIRCULATING	
FL	" " " " CEILING MTD, FLUORESCENT		
⊗	RECEPTACLE, 125 VAC	WP	WEATHER PROOF FIXTURES
⊗	" " " " HALF SWITCHED		
⊗	" " " " HIDDEN		

GENERAL NOTES	STRUCTURAL NOTES
<p>1- All contractors or sub-contractors shall verify all conditions and dimensions at the job site prior to commencing work. The contractor shall report all discrepancies between the drawing and existing conditions to the designer prior to commencing work.</p> <p>2- All details and sections shown on the drawings are intended to be typical and shall be construed to apply to any similar situation elsewhere in the work except where a different detail is shown.</p> <p>3- All trusses shall be designed and certified by the manufacturer's State of Florida registered engineer.</p> <p>4- The structure is designed to be self-supporting and stable after the building is complete. It is the contractor's sole responsibility to determine erection procedures and sequence to ensure safety of building and its components during erection. This includes the addition of necessary shoring, sheathing, temporary bracing, guys or tie-downs.</p> <p>5- Grouted cells are required as shown on the plans and shall be placed @ 4' 0" O.C. max. Each grouted cell shall have (1) #5 vertical dowel tied to foundation and tie-beam unless otherwise shown on the plans.</p> <p>6- Reinforced vertical block shells shall be aligned and efficiently clean to allow length of cell to fill with grout.</p> <p>7- Clean-out openings shall be provided at the bottom of all grouted cells for inspection of alignment and reinforcement. Openings shall be sealed prior to grouting operation.</p> <p>8- Masonry walls shall cure a minimum of 24 hours prior to grouting operation.</p> <p>9- Concrete tie-beam may be up to 6" deeper than depicted on these plans without any additional steel reinforcement. Steel reinforcement must be positioned 1.5 inches from top, sides and bottom of beam.</p> <p>10- Fasten each end of all roof trusses (except girder trusses) to tie-beam with Simpson META 16 straps. Fasten all girder trusses in accordance with truss design on truss engineering sheets.</p> <p>11- All wood construction shall be in accordance with National Design Specifications and the Timber Construction Manual.</p> <p>12- Simpson connectors are specified in this design. Substitutions of equal or greater capacity than those depicted herein are permitted. All connectors shall be dipped galvanized.</p> <p>13- Roof sheathing shall be fastened to roof trusses per table 2306.1 unless shown otherwise in these plans.</p> <p>14- P.T.T. 3/4" window bucks for windows and doors shall be fastened [TW Rammed/Redhead Tapcons with 1 1/4" penetration into masonry walls as specified below:            Openings 3'0" wide or less - (6) 3/16" dia. or (4) 1/2" dia.            Openings 3'0" wide or more - (8) 3/16" dia. or (6) 1/2" dia.</p> <p>15- Provide two corner bars (one top and one bottom) at each corner of all tie-beams. Reinforcement bars to be #5, each lap 24". Provide two corner bars (top) at all "T" or hook discontinuous ends of top reinforcements.</p>	<p>1- All construction must be in strict conformance with the 2001 Edition of the Florida Building Code, section 1606 and all other applicable amendments and codes. Building's design is based on ASCE 7-98 for 120 MPH wind and applicable gravity dead and live loads.</p> <p>2- Soil borings have not been made. Footings have been designed for allowable soil bearing pressure of 2000 PSF.</p> <p>3- Concrete shall have a minimum compressive strength of 3000 PSI at 28 days. Unless noted otherwise placement shall be in accordance with ACI 318.</p> <p>4- All concrete slabs on grade shall be the thickness indicated on the drawings and shall be placed over a 6 Mil minimum polyethylene vapor barrier. Such slabs shall be reinforced with 6x6 #10/10 welded wire (or equal) fabric lapped 8" at edges and ends.</p> <p>5- Fill under concrete slabs shall be clean sand or rock and free of debris and other deleterious material. Fill shall be compacted to a density of at least 95% of Standard Proctor Maximum Dry Density (ASTM D 1557).</p> <p>6- Contractor shall build into and attach to all concrete work all insets, anchors, plates, etc. as may be required to attach other work in cooperation with other trades. These items must be secured in position before concrete is placed.</p> <p>7- All steel reinforcements shall be deformed bars +/- grade 60 steel, free of all scale, dirt, oil, excessive rust, etc. and shall be in conformance with ASTM A615 and shall be detailed per ACI 315.</p> <p>8- Do not scale drawings for structural information.</p> <p>9- Steel reinforcement shall have the following coverage unless otherwise noted:            Beams, girders and columns 1 1/2" (top, bottom and sides) +/-            Grade beams 2" (3" when cast against earth) +/-</p> <p>10- Support chairs or wires shall be used for all reinforcements spaced a minimum of 5'0" O.C. Maximum 4"x 4"x 3" solid bricks may be used in foundation only.</p> <p>11- Lap all top steel at mid-span and lap all bottom steel at supports or over masonry.</p> <p>12- Steel reinforcement in beams and grade beams shall have the following splices:            25" lap for #5 bars +/-            30" lap for #6 bars +/-            36" lap for #7 bars +/-            filled cell #5 bars 30" lap</p> <p>13- Welded wire mesh (WWM) shall conform to ASTM A185</p>
ELECTRICAL NOTES	
<p>1- Branch circuits supplying 125 Volt single phase 15 and 20 Ampere receptacles in all bedrooms must be protected by an arc-fault circuit interrupter.</p> <p>2- Branch circuits supplying 125 Volt single phase 15 and 20 Ampere receptacles in kitchens, laundry areas and on the exterior of a structure must be protected by a ground-fault circuit interrupter.</p> <p>3- Smoke detectors shall be line voltage with a battery back-up and must be installed in each sleeping room and in the immediately adjacent area per NFPA 72 CHAPTER 2-2.1.1.1, and CBCC 905.2</p>	

I hereby certify that the building depicted in this set of drawings numbered VH 4 of 4, through VH 4 of 4, will withstand wind pressures of up to 120 MPH as defined in the Florida Building Code, 2001 Edition, Section 1606, provided that it is built in strict accordance with these drawings.

H.L. Bennett, Florida P.E. No. 32534

7/20/05  
Date

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MR. AND MRS. VEP HUDSON  
 SCALE: 1/4" = 1'-0"  
 DATE: 06-22-05  
 APPROVED BY:  
 DRAWN BY: GMA  
 REVISED 07-05-05  
 CUSTOM SINGLE ONE-STORY HOME  
 ELECTRICAL PLAN  
 DRAWING NUMBER  
 VH 4 OF 4