

INDICATES SHEAR WALL SEGMENTS

TOTAL SHEAR WALL SEGMENTS

Diagram illustrating the input variables for the neural network model, showing the flow of information from the input layer through the hidden layers to the output layer. The input variables are:

- NUMBER OF KING STUDS (FULL)
- NUMBER OF JACK STUDS (UND)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

Diagram illustrating the structure of the **HEADER/BEAM CALL-OUT (U.N.O.)** block, which is 1K in size. The block is divided into several fields:

- NUMBER OF JACK STUDS (UNDER HEADER)**: 22
- NUMBER OF KING STUDS (FULL LENGTH)**: 12
- HEADER/BEAM CALL-OUT (U.N.O.)**: 1K

WALL LEGEND

SN-1 ALL LOAD BEARING FRAME WALL & PORCH H SHALL BE A MINIMUM OF (2) 2X12 SYP #2 (UN. EACH SIDE (U.N.O.)

SN-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD

SN-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

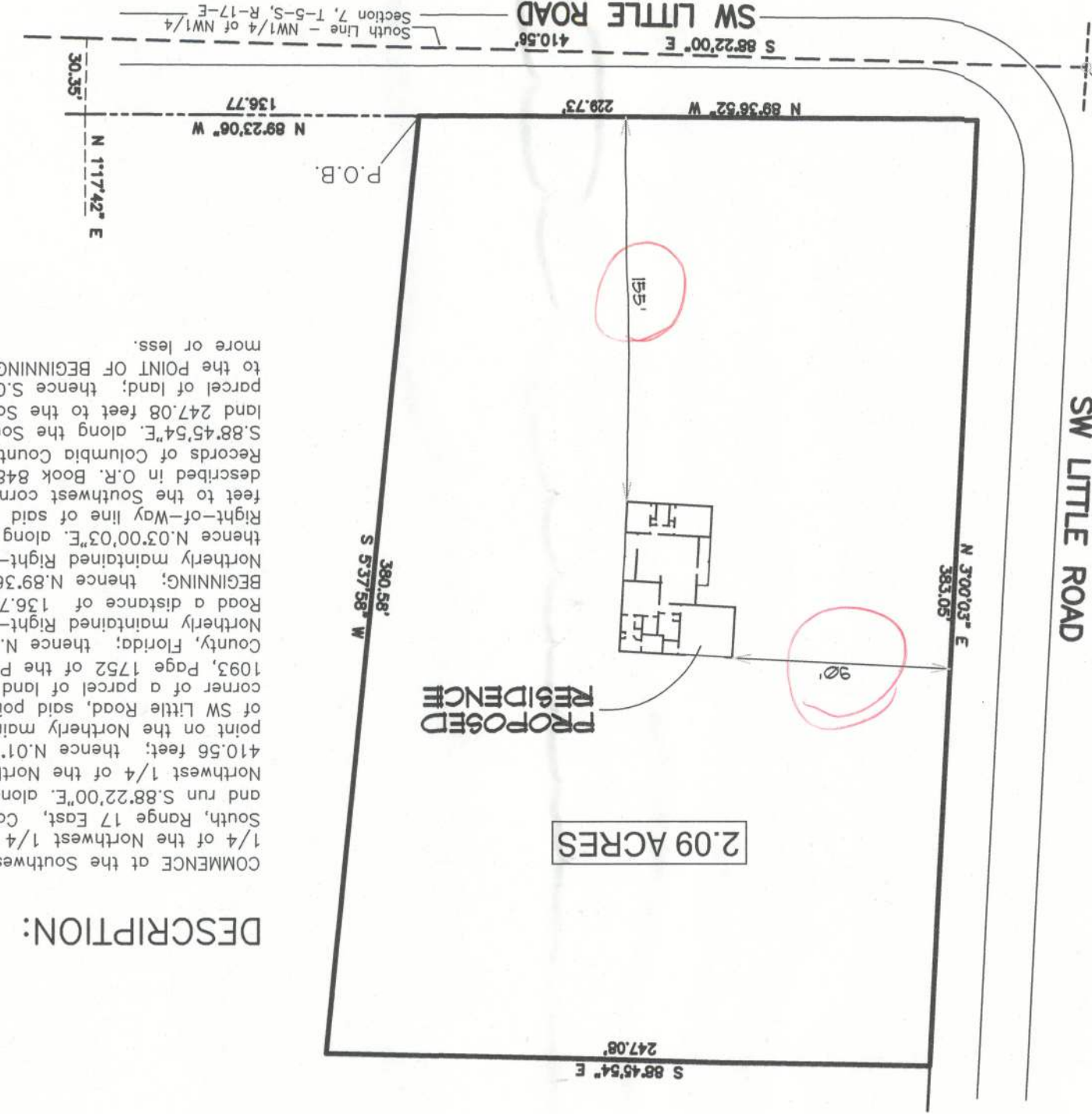
STRUCTURAL PLAN
SCALE: 1/4" = 1'-0"



REVISIONS

REVISIONS

DESCRIPTION:

[illegible]

PART OF THE N.W. 1/4 OF THE N.W. 1/4
SECTION 7
TOWNSHIP 5 SOUTH, RANGE 17 EAST
COLUMBIA COUNTY, FLORIDA

SCALE: 1 IN. = 60 FT.

SCALE: 1 IN. = 60 FT.

SHEET A-1 - - - - - SITE PLAN

SHEET A-2 - - - - - ELEVATIONS
+ GEN. NOTES

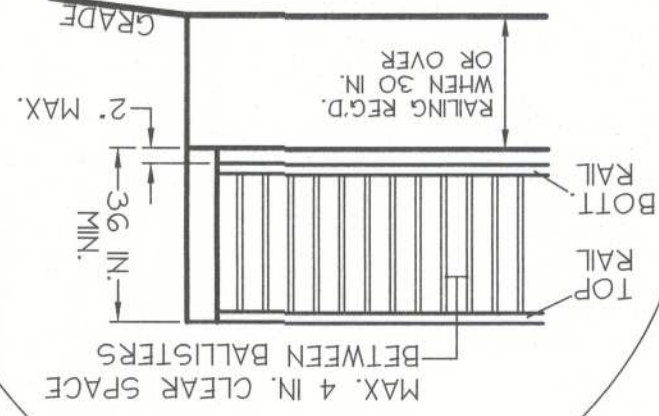
SHEET A-3 - - - - - FOUNDATION + SECTIONS

SHEET A-4 - - - - - ELEC/KNOAL

SHEET 5-1 - - - - - WIND ENGINEERING

FILE:	12-004	WILL ROBINSON RESIDENCE PREPARED BY: TIM DELBENE Drafting & Technical Services	DATE:	7-30-12	T A D CHECK:
SHEET:	1 OF 4		CAD FILE: 12-004	REV: 12-004	

PORCH RAIL DETAIL



= indicates a shearwall segment location referring to the labeled section of wall lying between the adjacent window / door openings in either direction. The shearwall areas have a height/width aspect ratio of 3-1/2 : 1 or wider.

WINDLOAD ENGINEER: Mark Disoway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5410

These plans and "Windload Engineering" Sheet S-1, attached, comply with Florida Building Code Residential 2010, Section R301.2.1 to the best of my knowledge. This design is valid for one building, at specified location, permitted within 90 days of signature date. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

Location: LAKE CITY, FL 32055
Job No.:

Location: LAKE CITY, FL 320

days of signature date. In case of conflict, s
builder responsibilities on sheet S-1 control.

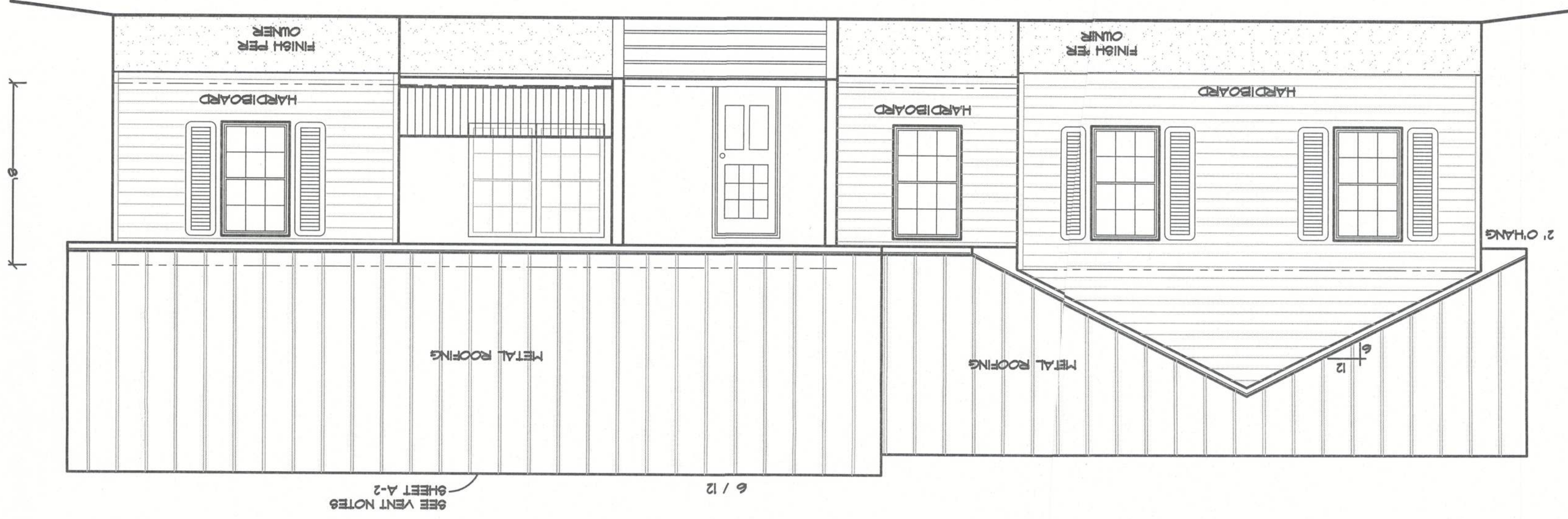
LIMITATION: This design is valid for one building, at specified location, permitted within 90 days of signature date, in case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

[illegible]

SCALE: 1/4 IN. = 1 FT.

FRONT ELEVATION

SCALE: 1/4 IN. = 1 FT.



Enclosed attics and enclosed roller spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain. Ventilating openings shall be provided with corrosion-resistant wire mesh, with 1" / 8 inch (3.2 mm) minimum to 1/4 inch (6.4 mm) maximum openings.

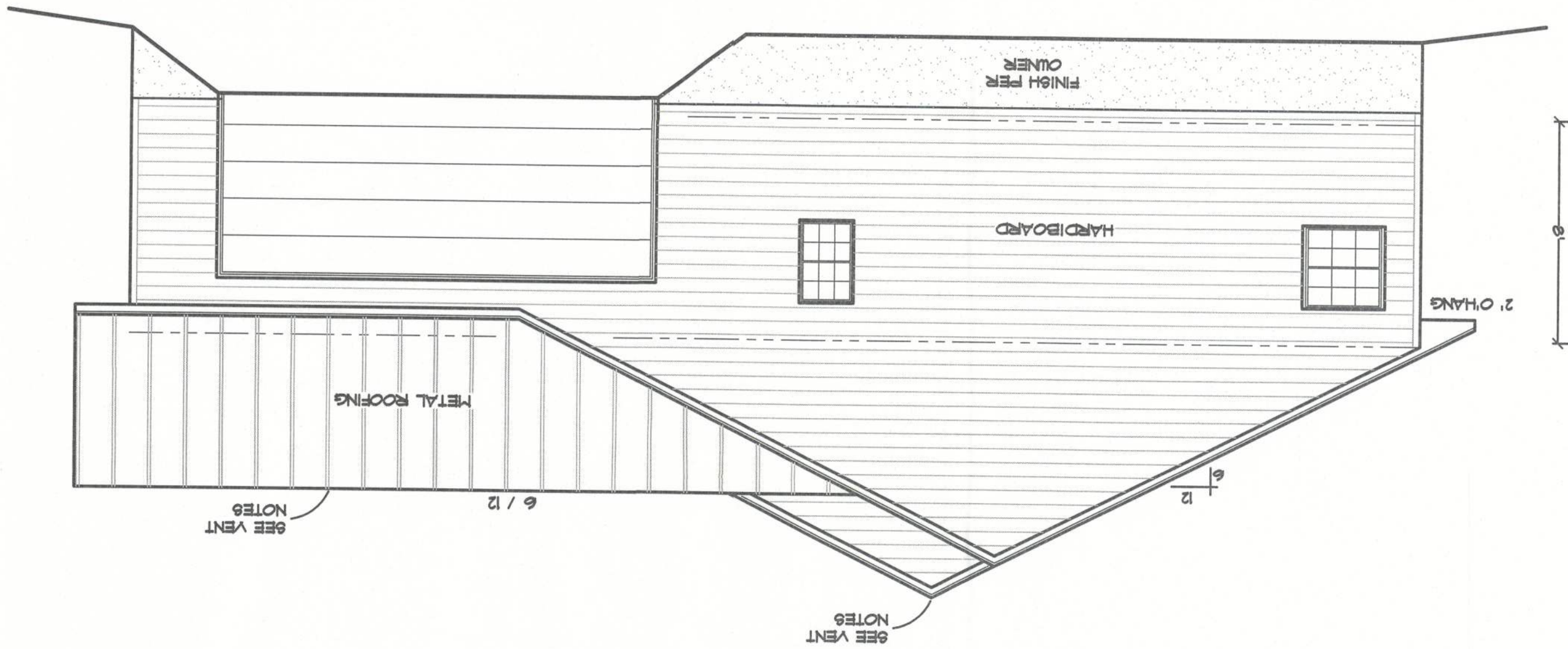
The total net free ventilating area shall not be less than 1 to 150 of the area of the space ventilated except that the total area is permitted to be reduced to 1 to 300, provided at least 50 percent and not more than 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents.

ATTIC VENTILATION

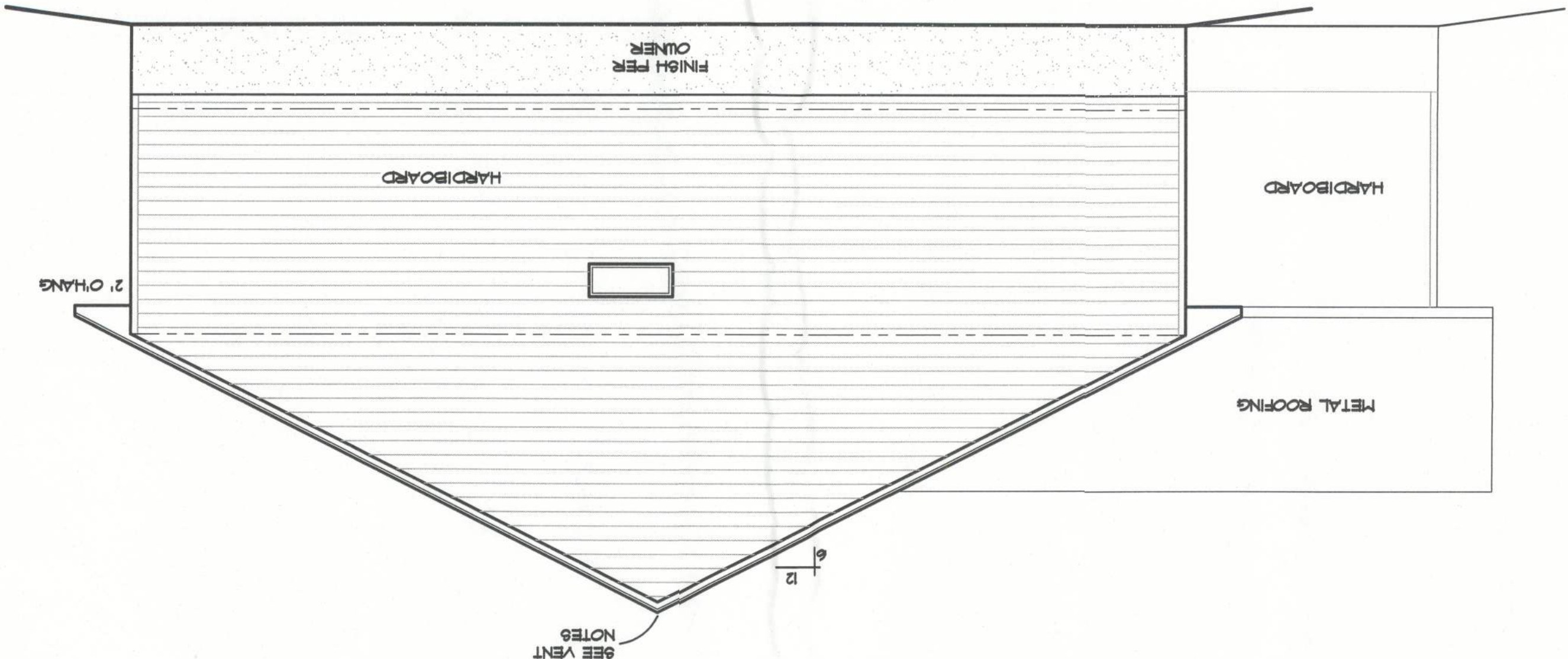
REAR ELEVATION
SCALE: 1/4 IN. = 1 FT.



LEFT ELEVATION
SCALE: 1/4 IN. = 1 FT.



RIGHT ELEVATION
SCALE: 1/4 IN. = 1 FT.



- 1.) See Wind Load Detail Sheet S-1' and Wind Engineer's Notes for data pertaining to Wind Design and compliance w/ Florida Building Code.
- 2.) All concrete used to be 2500 PSI strength or greater.
- 3.) HVAC duct and unit size/design is by engineered shop drawings from the AC contractor.
- 4.) Windows to be alum. framed and double glazed. Sizes shown are nominal and may vary with manufacturer.
- 5.) Roof Truss design is the responsibility of the supplier.
- 6.) The Truss Manufacturer shall prepare Shop Drawings indicating Truss placement, Girder locations, Truss-to-Truss Connections and any point loads. The Contractor shall notify the Designer of any point loads in excess of 2.0k for Fnd. Modification.
- 7.) Site analysis or preparation information is not a part of this plan and is the responsibility of the owner.
- 8.) Cabinet and millwork detail is not a part of this plan. The plan is a general design and details shall be the responsibility of the owner and/or contractor.

GENERAL NOTES

WINDLOAD ENGINEER: Mark Discoway, PE No.53915, POB 888, Lake City, FL 32056.
386-754-5419

CERTIFICATION: These plans and "Windload Engineering", Sheet S-1, attached, comply with Florida Building Code Residential 2010, Section R301.2.1 to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location, permitted within 90 days of signature date. In case of conflict, structural requirements, scope of work, and builder responsibilities on sheet S-1 control.

386 LITTLE ROAD
LAKE CITY, FL 32055



A-2

FILE:	12-004
DATE:	7-30-12
DRAWN:	T A D
CHECK:	T A D
PREPARED BY:	TIM DELBENE
Drafting + Technical Services	
192 SW Seagwood Cir., Lake City, FL 32024	
Phone (386) 755-5891	
REV:	
GAD FILE:	12-004
2 OF 4	
SHEET:	

WILL ROBINSON
RESIDENCE

FILE:	12-004	DRAWN:	T A D	CHECK:	T A D
DATE:	7-30-12	PREPARED BY:	T M DELBENE	Drafting + Technical Services	Phone (352) 755-5841
CAD FILE:	12-004	REV:			
SHEET:	4 OF 4				

A-4

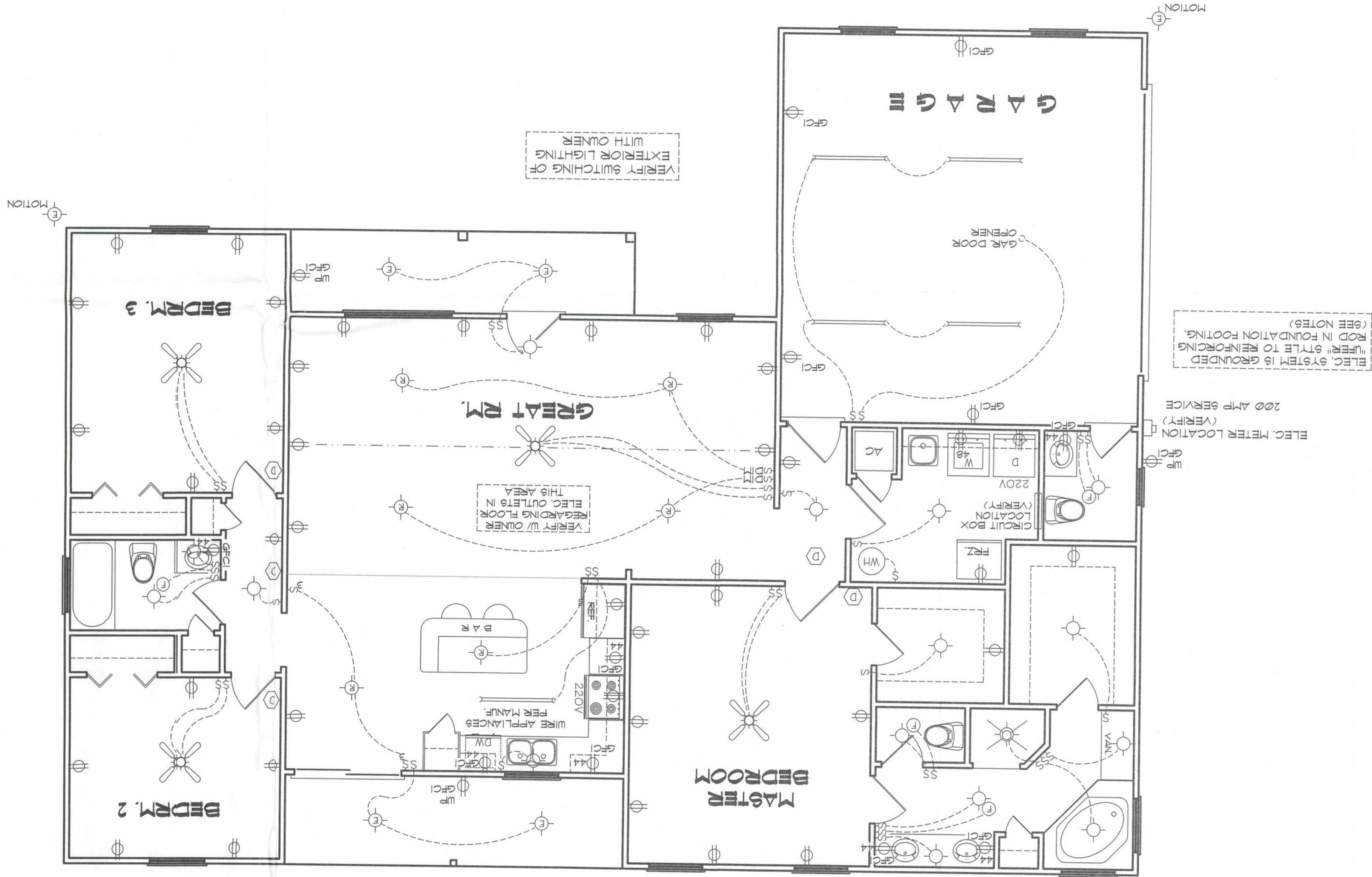
5W LITTLE ROAD
LAKE CITY, FL 32055

WILL ROBINSON
RESIDENCE

- ALL INSTALLATIONS ARE PER NAT'L. ELECTRIC CODE (NEC) 2008.
- ALL RECEPTACLES, UNLESS NOTED OTHERWISE, SHALL BE ARC
FAULT CIRCUIT INTERRUPTER (AFCI) TYPE. ALSO, RECEPTACLES,
UNLESS NOTED, SHALL BE TAMPER RESISTANT.
- GROUNDING OF ELECTRICAL SYSTEM SHALL BE BY "UPPER"
STYLE GROUNDING METHOD TO REINFORCING ROD IN CONCRETE
FOUNDATION FOOTING (NEC 250.52 - GROUNDING ELECTRODES).
- WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT
PER MANUF. SPECIFICATIONS.
- ELECTRICAL CONTR' SHALL BE RESPONSIBLE FOR THE
DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
TO BE DETERMINED BY POWER COMPANY.
- TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE
DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S
DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE
SECTIONS OF NEC-LATEST EDITION 2008.
- CONSULT THE OWNER FOR THE NUMBER OF SEPERATE
TELEPHONE LINES TO BE INSTALLED.
- LOW VOLTAGE ITEMS (TELEPHONE, CATV, DATA CABLING) IS
SHOWN, IF REQUESTED BY OWNER / BUILDER. CONSULT OWNER
FOR REQUIREMENTS IF NOT SHOWN ON ELECTRICAL PLAN.
- ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY
BACKUP OF THE PHOTOELECTRIC TYPE AND SHALL
BE INTERLOCKED TOGETHER. INSTALL INSIDE AND
NEAR ALL BEDROOMS. THEY SHALL ALSO PROVIDE
CARBON MONOXIDE DETECTION.

ELECTRICAL PLAN NOTES

ELECTRICAL PLAN NOT TO SCALE



ELECTRICAL SYMBOL LEGEND	
40" FLOURESCENT LIGHTING FIXTURE	⊙
STANDARD CEILING LIGHTING FIXTURE OR CHANDELIER	⊙
EXTERIOR LIGHTING FIXTURE - WEATHERPROOF	⊙
RECESSED (CAN) CEILING LIGHTING FIXTURE	⊙
80L POLE LIGHT SWITCH	S
THREE-WAY SWITCH	S ₃
FOUR-WAY SWITCH	S ₄
DIMMER SWITCH	S _{DM}
SMOKE & CARBON MONOXIDE DETECTOR (SEE NOTES)	D
ARC FAULT CIRCUIT INTERRUPTER	AFCI
WEATHER PROOF	WP
110V DUPLEX OUTLET	⊙
AFCI, UNLESS NOTED	⊙
EXTERIOR LIGHTING FIXTURE - WEATHERPROOF	⊙
110V DUPLEX OUTLET	⊙
AFCI, UNLESS NOTED	⊙
220 VOLT OUTLET (4 WIRE)	⊙
FAN LOCATION (CEILING)	⊙
FAN LOCATION (EXHAUST)	⊙