

REVISIONS



**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"

**REQUIRED ROOF VENTILATION:**  
AS PER FLORIDA BUILDING CODE 2303.7

- RIDGE VENT**  
MIN. 50% TOTAL VENT AREA  
LOCATED IN THE UPPER PORTION OF ATTIC (MIN. 3" ABOVE CAVE)  
380 S.F. / 300 x 95% = 94.5 S.F. RIDGE VENT AREA REQUIRED  
98.42 FEET OF RIDGE VENT REQUIRED
- SOFFIT VENT**  
380 S.F. / 300 x 95% = 94.5 S.F. SOFFIT VENT AREA REQUIRED  
214 FEET OF SOFFIT VENT REQUIRED
- BUILDER MUST VERIFY THE FOLLOWING MINIMUM NET FREE VENT AREA:**
1. RIDGE VENTS = 18 IN<sup>2</sup>/FT (1.1 FT<sup>2</sup>/FT)
  2. OFF-RIDGE VENTS = 70 FT<sup>2</sup> PER 4' UNIT
  3. SOFFIT VENTS = 4.3 IN<sup>2</sup>/FT (0.3 FT<sup>2</sup>/FT)



**REAR ELEVATION**  
SCALE: 1/4" = 1'-0"

REGISTERED ENGINEER: Mark Dissoway  
15 W. 34TH ST., SUITE 200, LAKE CITY, FL 32809-3974-5413

**EXPLANATION:**  
These drawings represent a preliminary design. All dimensions and quantities are approximate. Refer all questions to Mark Dissoway, P.E. for clarification. Do not proceed without consultation.

**CONTRACTS AND INCUMBERTS:**  
Mark Dissoway, P.E. hereby certifies that the drawings and specifications were prepared by him or under his direct supervision and control. He is duly licensed and qualified to practice in the State of Florida. This document is not to be reproduced, altered or copied in whole or in part without the written consent of Mark Dissoway.

**CERTIFICATION:** I hereby certify that I have examined the plan, and that the specifications of the plan, meeting in all respects the requirements of the Florida Building Code, are hereby approved by me as a duly licensed and qualified professional engineer in the State of Florida.

**EXPIRES:** This design is valid for one building, at specified location.



**Dowd - Knee Residence**

ADDRESS:  
The Oaks S/O  
Columbia County, FL

Mark Dissoway P.E.  
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PRINTED DATE:  
November 13, 2012

DRAWN BY: STRUCTURAL BY:  
13MNov12

JOB NUMBER:  
1206113

DRAWING NUMBER:  
1  
OF 7 SHEETS

REVISIONS	



**LEFT ELEVATION**  
SCALE: 1/4" = 1'-0"



**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"

PROFESSIONAL ENGINEER: Mark Discoway  
P.E. No. 10812, F.S.P. #68, Lake City, FL  
33701-100-54614

**DISCLAIMER:**  
I hereby disavow any and all liability for any errors or omissions in this drawing. I am not responsible for any errors or omissions in this drawing. I am not responsible for any errors or omissions in this drawing. I am not responsible for any errors or omissions in this drawing.

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**CERTIFICATION:** I hereby certify that I have prepared this plan, and that the signature on the face of the plan, is my signature and that I am a duly licensed Professional Engineer in the State of Florida. I am not responsible for any errors or omissions in this drawing.

**LIMITATION:** This design is valid for use only in the location specified on the plan.



**Dowd - Knee Residence**

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OF 7 SHEETS



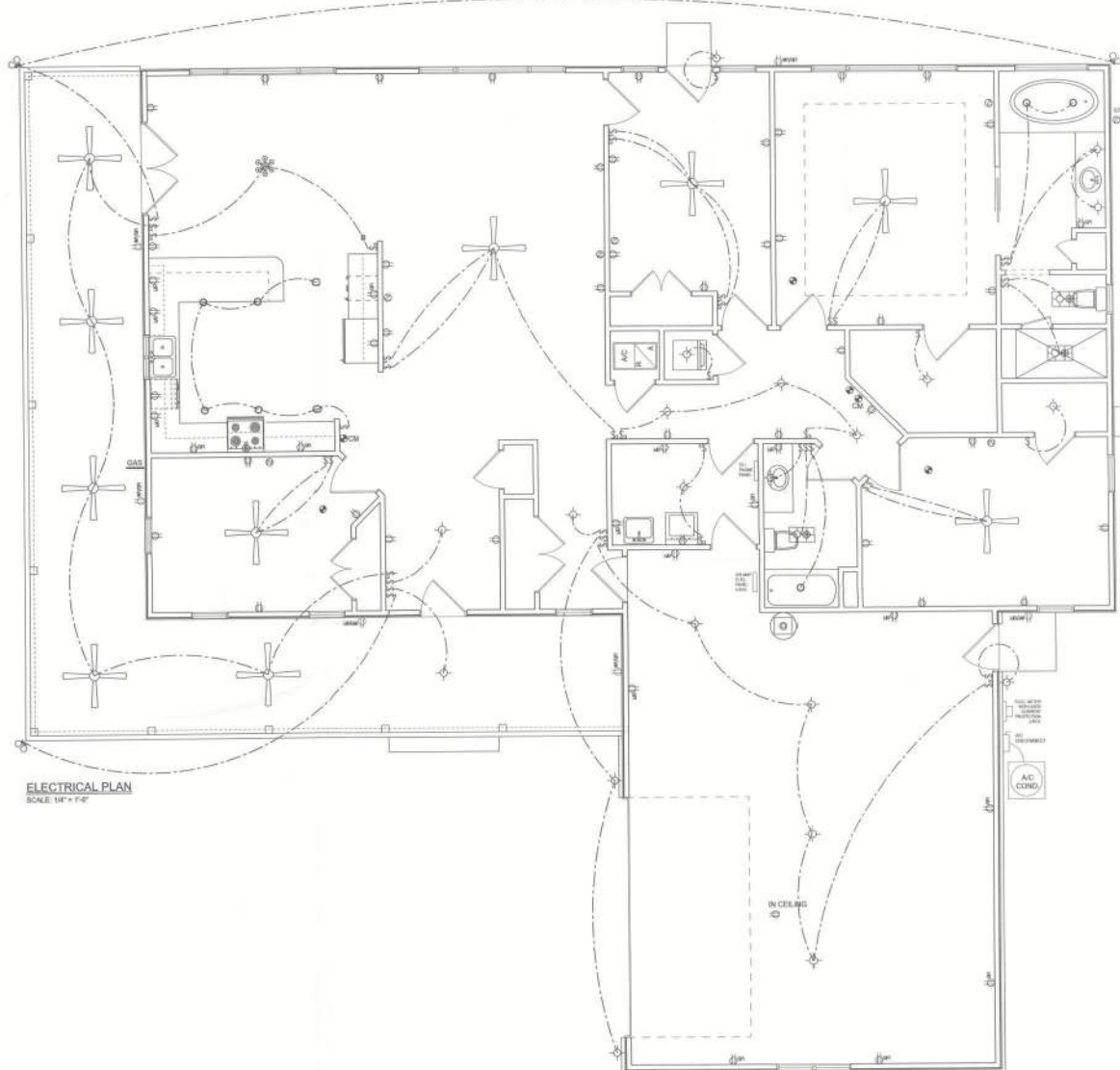
REVISIONS

SOFTPLAN

**ELECTRICAL PLAN NOTES**

- E-1 WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
- E-2 CONSULT THE OWNER FOR THE NUMBER OF SEPARATE TELEPHONE LINES TO BE INSTALLED.
- E-3 ALL INSTALLATIONS SHALL BE PER NATL. ELECTRIC CODE
- E-4 ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER, INSTALL INSIDE AND NEAR ALL BEDROOMS.
- E-5 TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF RE-CALATED EDITION.
- E-6 ELECTRICAL CONTR. SHALL BE RESPONSIBLE FOR THE DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
- E-7 ENTRY OF SERVICE ( UNDERGROUND OR OVERHEAD ) TO BE DETERMINED BY POWER COMPANY.
- E-8 ALL 120VOLT SINGLE-PHASE 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LEANING, DINING, BEDROOMS, SUN ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED AFCI-FULT CIRCUIT INTERRUPTER COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
- E-9 ALL OUTLETS TO BE LOCATED ABOVE BASE FLOOD ELEVATION
- E-10 A SERVICE DISCONNECT WITH OVER CURRENT PROTECTION SHALL BE INSTALLED OUTSIDE OF THE BUILDING, ON THE LOAD SIDE OF THE METER, AT THE PLACE ELECTRIC CONDUCTORS ENTER THE BUILDING. SERVICE ENTRANCE CONDUCTORS MAY NOT BE LOCATED INSIDE OF THE OF THE BUILDING WITHOUT SPECIAL APPROVAL OF THE BUILDING OFFICIAL.
- E-11 CARBON MONOXIDE ALARMS SHALL BE REQUIRED WITHIN 1/2 OF ALL ROOMS FOR SLEEPING PURPOSES IN BUILDINGS HAVING A FOSSIL FUEL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR ATTACHED GARAGE.
- E-12 ALL OUTLETS LOCATED IN RESIDENTIAL TO BE TAMPER-RESISTANT PER NEC.

ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	20W FLUORESCENT LIGHT FIXTURE
	RECESSED CAN LIGHT
	BATH EXHAUST FAN WITH LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220V OUTLET
	GFI DUPLEX OUTLET
	SMOKE DETECTOR
	WALL SWITCH
	3 WAY WALL SWITCH
	4 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	PHONE JACK
	TELEVISION JACK
	GARAGE DOOR OPENER
	CARBON MONOXIDE ALARM



**ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

**UNLICENSED ENGINEER:** Mark Disoway, P.E. No. 02015, Florida State Board of Professional Engineers, P.E. No. 02015, Florida State Board of Professional Engineers, P.E. No. 02015.

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**QUALIFICATION:** I hereby certify that I have examined the plan, and that the qualifications of the plan, comply with applicable laws, codes, and standards of the State of Florida, and I am a duly Licensed Professional Engineer in the State of Florida.

**EXPIRES:** This design is valid for one year, or as specified in the contract.

**Dowd - Kneo Residence**

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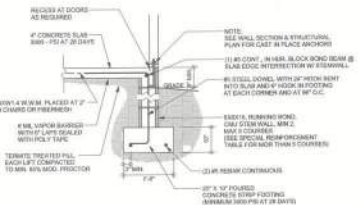
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4

OF 7 SHEETS

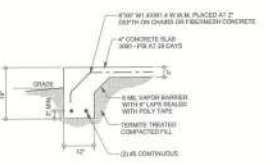


NO.	REVISIONS

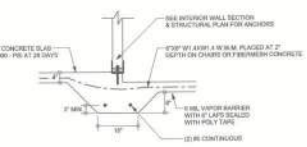
SOFTPLAN  
STRUCTURAL SOFTWARE



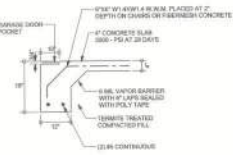
**F1 S-2**  
**STEM WALL FOOTING**  
SCALE: 1/2" = 1'-0"



**F2 S-2**  
**MONOLITHIC FOOTING**  
SCALE: 1/2" = 1'-0"



**F3 S-2**  
**INTERIOR BEARING STEP FOOTING**  
SCALE: 1/2" = 1'-0"

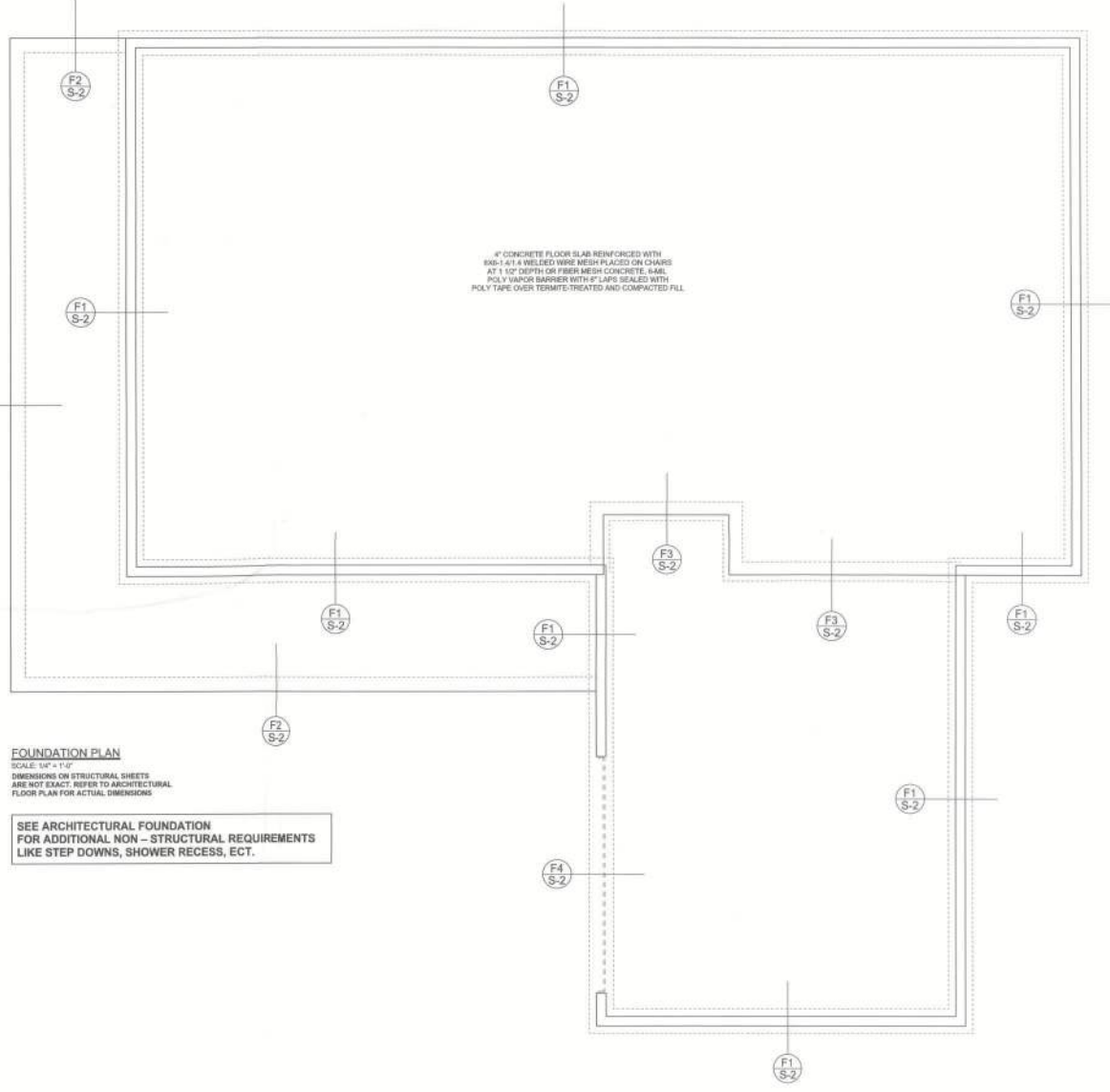


**F4 S-2**  
**GARAGE DOOR FOOTING**  
SCALE: 1/2" = 1'-0"

**TALL STEM WALL TABLE**

The table provides the following data with 4" bars in the footing and 4" bars in the stem wall at the top. The vertical steel to be placed based on the maximum size of the concrete and based on the vertical spacing of 24" for the vertical side of the wall. If the wall is over 8' high, use 4" bars in the footing and 4" bars in the stem wall. The wall is to be cast in place with the stem wall. For higher parts of the wall, 4" bars are to be used with reinforcement as shown in the table.

TOTAL WALL HEIGHT (FEET)	BACKFILL HEIGHT (FEET)	VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES OCC)				VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES OCC)			
		#5	#7	#8	#8	#5	#7	#8	#8
3.3	3.0	00	00	00	00	00	00	00	00
4.0	3.7	00	00	00	00	00	00	00	00
4.7	4.3	00	00	00	00	00	00	00	00
5.3	5.0	00	00	00	00	00	00	00	00
6.0	5.7	40	00	00	00	00	00	00	00
6.7	6.3	32	56	00	00	00	00	00	00
7.3	7.0	24	40	00	00	00	00	00	00
8.0	7.7	16	32	48	32	64	00	00	00
8.7	8.5	8	24	32	32	48	64	00	00
9.3	9.0	8	16	24	16	40	48	00	00



**FOUNDATION PLAN**

SCALE: 1/4" = 1'-0"  
DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS.

SEE ARCHITECTURAL FOUNDATION FOR ADDITIONAL NON-STRUCTURAL REQUIREMENTS LIKE STEP DOWNS, SHOWER RECESS, ECT.

PROFESSIONAL ENGINEER Mark D. Downey, P.E. No. 12056, F.C. No. 1000, Lake City, FL 32056, 386-754-5411

**EXEMPTION**  
Mark D. Downey, P.E. hereby certifies that the design of the foundation is in accordance with the Florida Building Code, Chapter 6, Part 6-10, and that the design is in accordance with the Florida Building Code, Chapter 6, Part 6-10, and that the design is in accordance with the Florida Building Code, Chapter 6, Part 6-10.

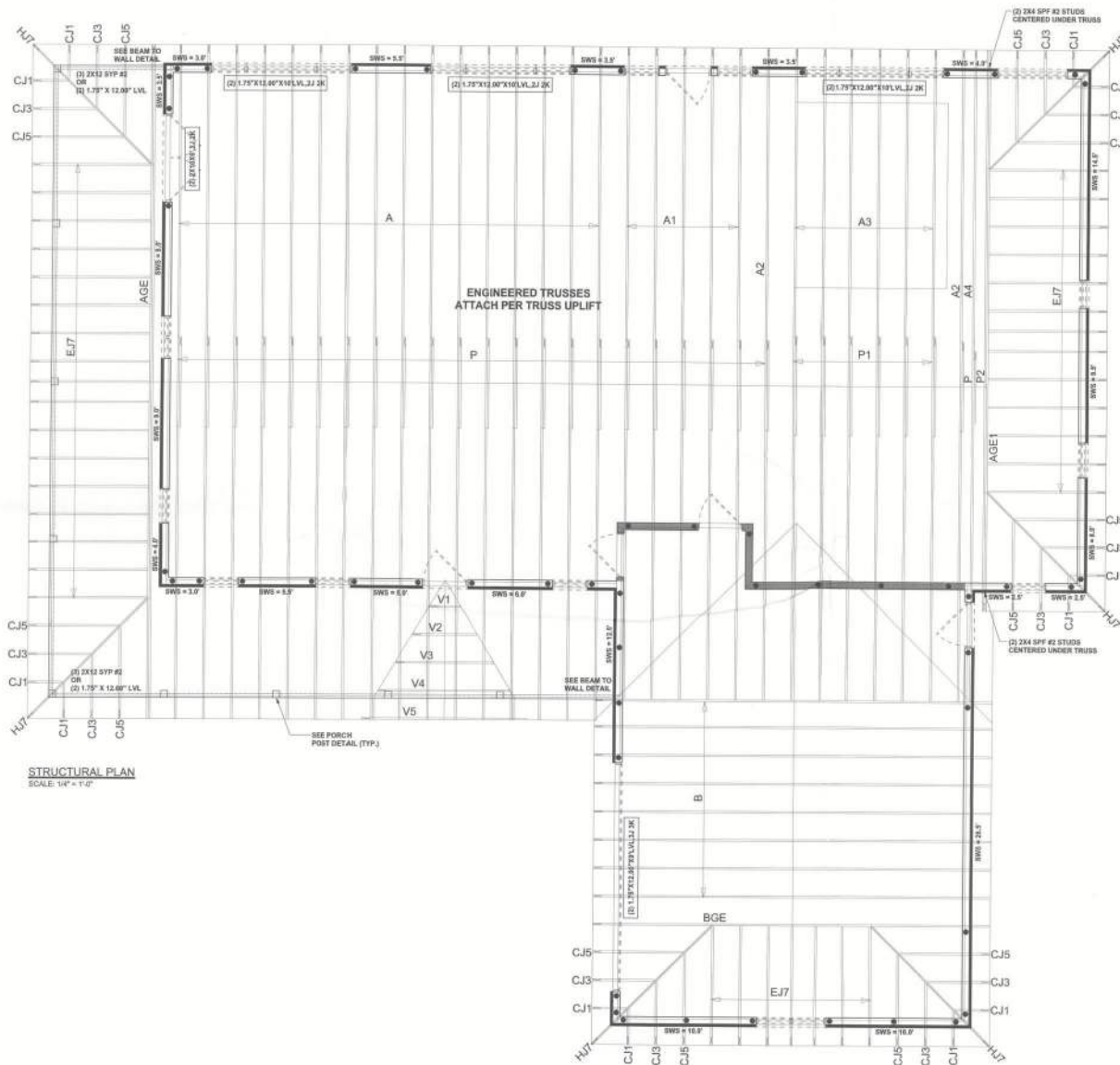


**Downey - Knee Residence**

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**S-2**  
OF 7 SHEETS



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

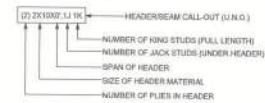
STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X10 SYP#2 (U.N.O.)
- SN-2 ALL LOAD BEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- SN-3 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS.
- SN-4 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BC309-01, BC309-01, BC309-02, BC309-03, BC309-04, BC309-05, BC309-06, BC309-07, BC309-08, BC309-09, BC309-10, BC309-11, BC309-12, BC309-13, BC309-14, BC309-15, BC309-16, BC309-17, BC309-18, BC309-19, BC309-20, BC309-21, BC309-22, BC309-23, BC309-24, BC309-25, BC309-26, BC309-27, BC309-28, BC309-29, BC309-30, BC309-31, BC309-32, BC309-33, BC309-34, BC309-35, BC309-36, BC309-37, BC309-38, BC309-39, BC309-40, BC309-41, BC309-42, BC309-43, BC309-44, BC309-45, BC309-46, BC309-47, BC309-48, BC309-49, BC309-50, BC309-51, BC309-52, BC309-53, BC309-54, BC309-55, BC309-56, BC309-57, BC309-58, BC309-59, BC309-60, BC309-61, BC309-62, BC309-63, BC309-64, BC309-65, BC309-66, BC309-67, BC309-68, BC309-69, BC309-70, BC309-71, BC309-72, BC309-73, BC309-74, BC309-75, BC309-76, BC309-77, BC309-78, BC309-79, BC309-80, BC309-81, BC309-82, BC309-83, BC309-84, BC309-85, BC309-86, BC309-87, BC309-88, BC309-89, BC309-90, BC309-91, BC309-92, BC309-93, BC309-94, BC309-95, BC309-96, BC309-97, BC309-98, BC309-99, BC309-100.

WALL LEGEND

	EXTERIOR WALL
	INTERIOR NON-LOAD BEARING WALL
	INTERIOR LOAD BEARING WALL w/ NO UPLIFT
	INTERIOR LOAD BEARING WALL w/ UPLIFT

HEADER LEGEND

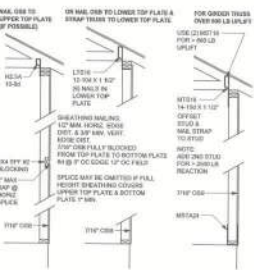


THREADED ROD LEGEND



TOTAL SHEAR WALL SEGMENTS

INDICATES SHEAR WALL SEGMENTS	
REQUIRED	ACTUAL
TRANSVERSE 38.0'	85.0'
LONGITUDINAL 33.0'	84.0'



SHEATHING NAILING FOR UPLIFT  
ONE STORY WOOD FRAME

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BLDGTR, ANDERSON TRUSS JOB # 10-188

PROFESSIONAL ENGINEER - Mark Dossway  
P.E. No. 53915  
1000 N. US HWY 1, Suite 100, Ft. Lauderdale, FL 33304, 305-754-8871

DESIGNER: Mark Dossway, P.E. (Seal)  
CHECKED: [Signature]  
DATE: 11/13/12

DATE: 11/13/12

Dowd - Kneis  
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