

STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 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 BCSI-03, BCSI-B1, BCSI-B2, & BCSI-B3. BCSI-B1, BCSI-B2, & BCSI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

WALL LEGEND

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

THREADED ROD LEGEND

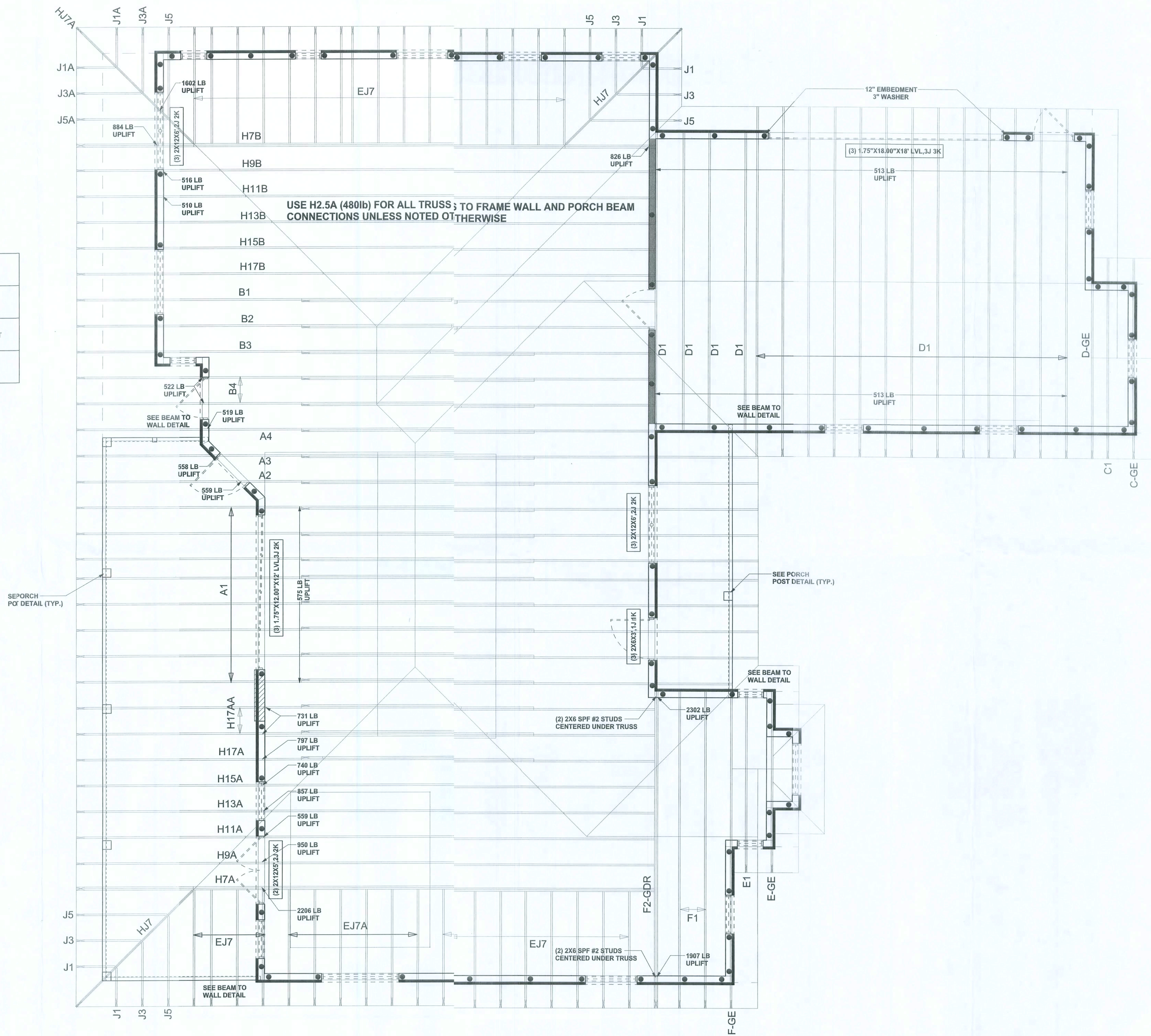
- INDICATES LOCATION OF: 1ST FLOOR 1/2" A307 ALL THREADED ROD
- INDICATES LOCATION OF: 2ND FLOOR 1/2" A307 ALL THREADED ROD

HEADER LEGEND

- (2) 2X12X0' 1J 1K - HEADER/BEAM CALL-OUT (U.N.O.)
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLIES IN HEADER

TOTAL SHEAR WALL SEGMENTS

	INDICATES SHEAR WALL SEGMENTS	REQUIRED	ACTUAL
TRANSVERSE		62.5'	94.5'
LONGITUDINAL		53.2'	58.0'



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

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER, ANDERSON TRUSS CO. JOB # 9-188

REVISIONS	
16Nov09	



WINDLOAD ENGINEER
Mark Disoway, P.E.
No. 53015, P.O. Box 868, Lake City, FL 32058,
386-754-5419

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without verification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section F301.2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOWAY
P.E. #315
Mark Disoway
16 Nov 09
SEA

Formic #28074

Louis J. & Elona D.
Kisala Residence

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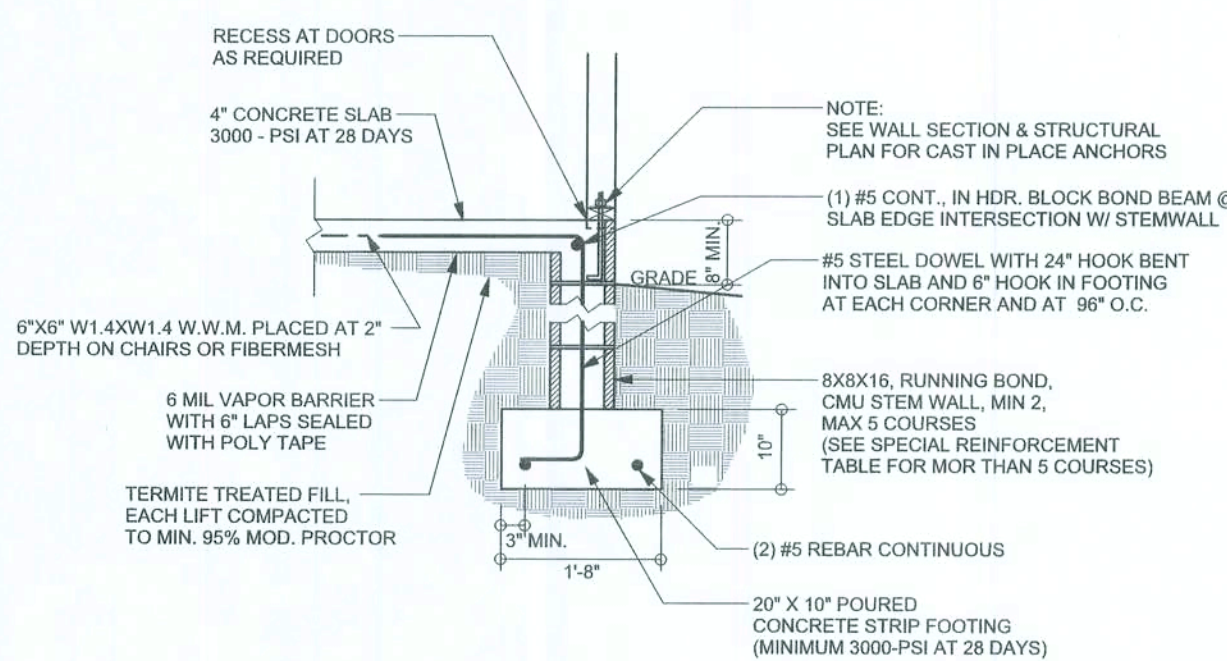
PRINTED DATE:
November 16, 2009

DRAWN BY: David Disoway
STRUCTURAL BY: David Disoway

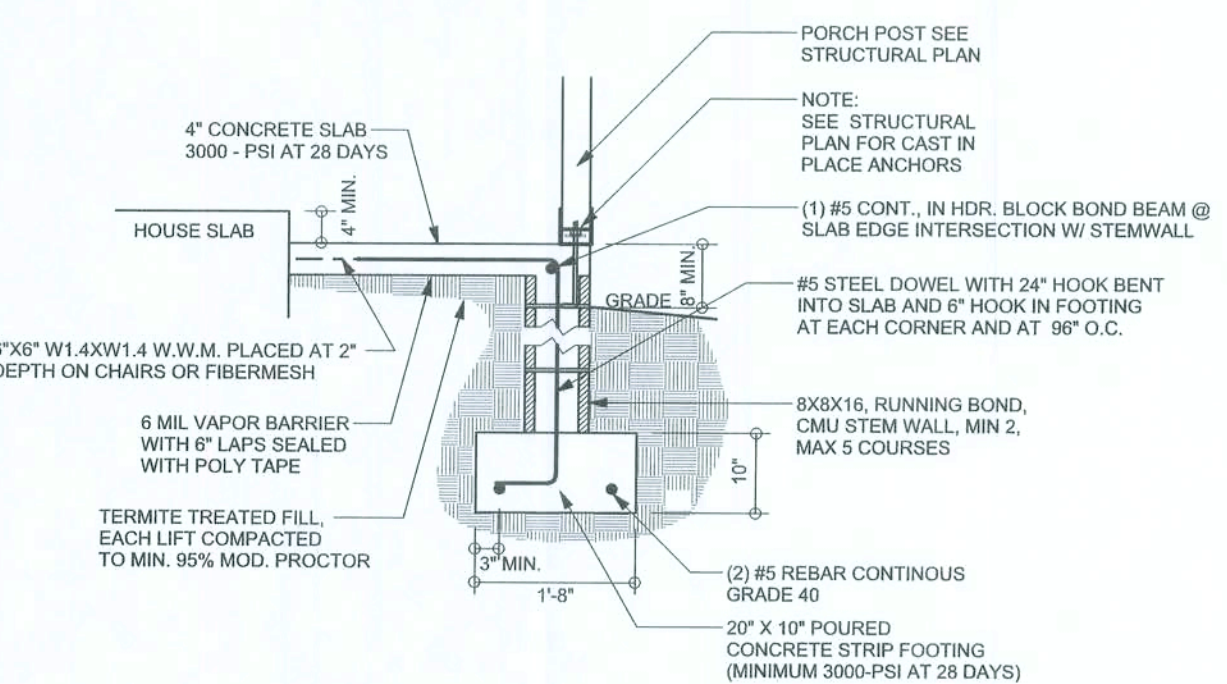
FINALS DATE:
23 Jun 09

JOB NUMBER:
80841a

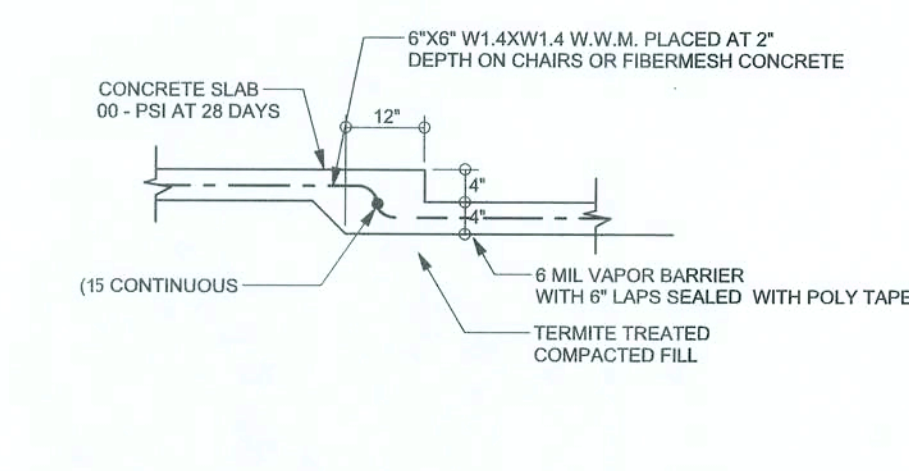
DRAWING NUMBER
S-3
OF 7 SHEETS



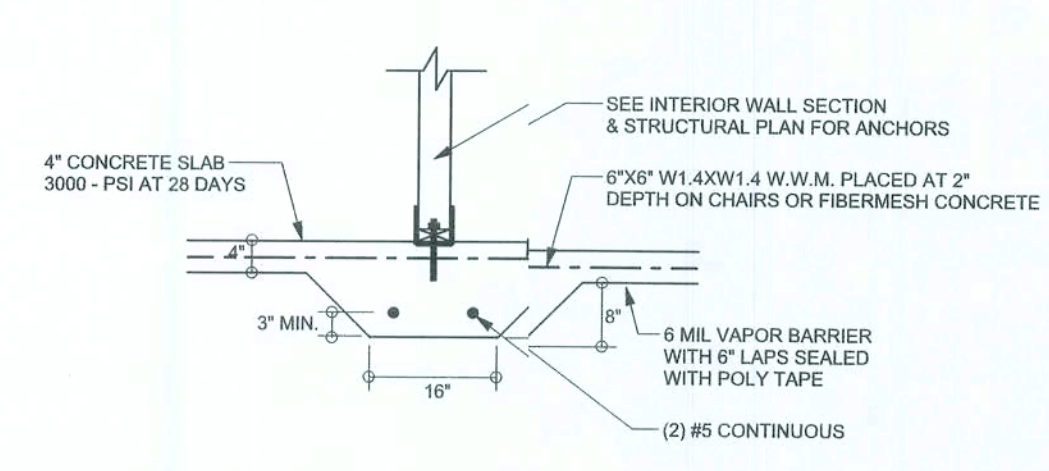
F9 S-2 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



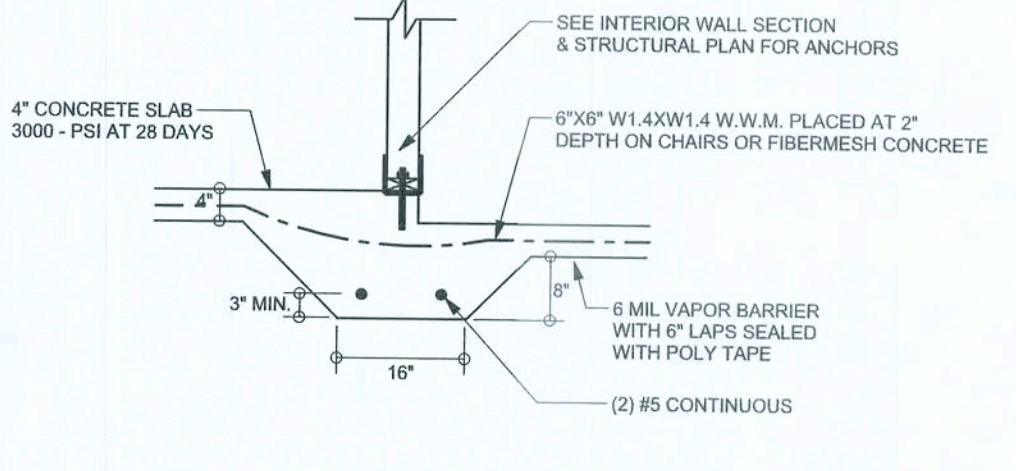
F12 S-2 STEM WALL PORCH FOOTING
SCALE: 1/2" = 1'-0"



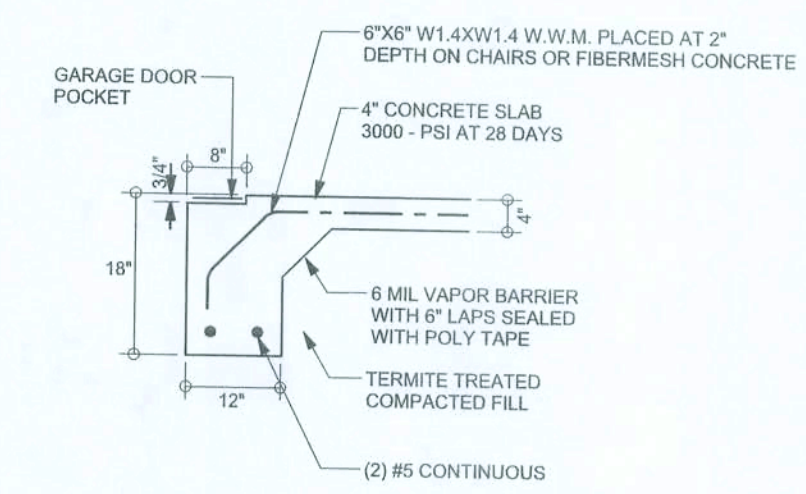
F6 S-2 TYPICAL NON-BEARING STEP FOOTING
SCALE: 1/2" = 1'-0"



F2 S-2 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



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

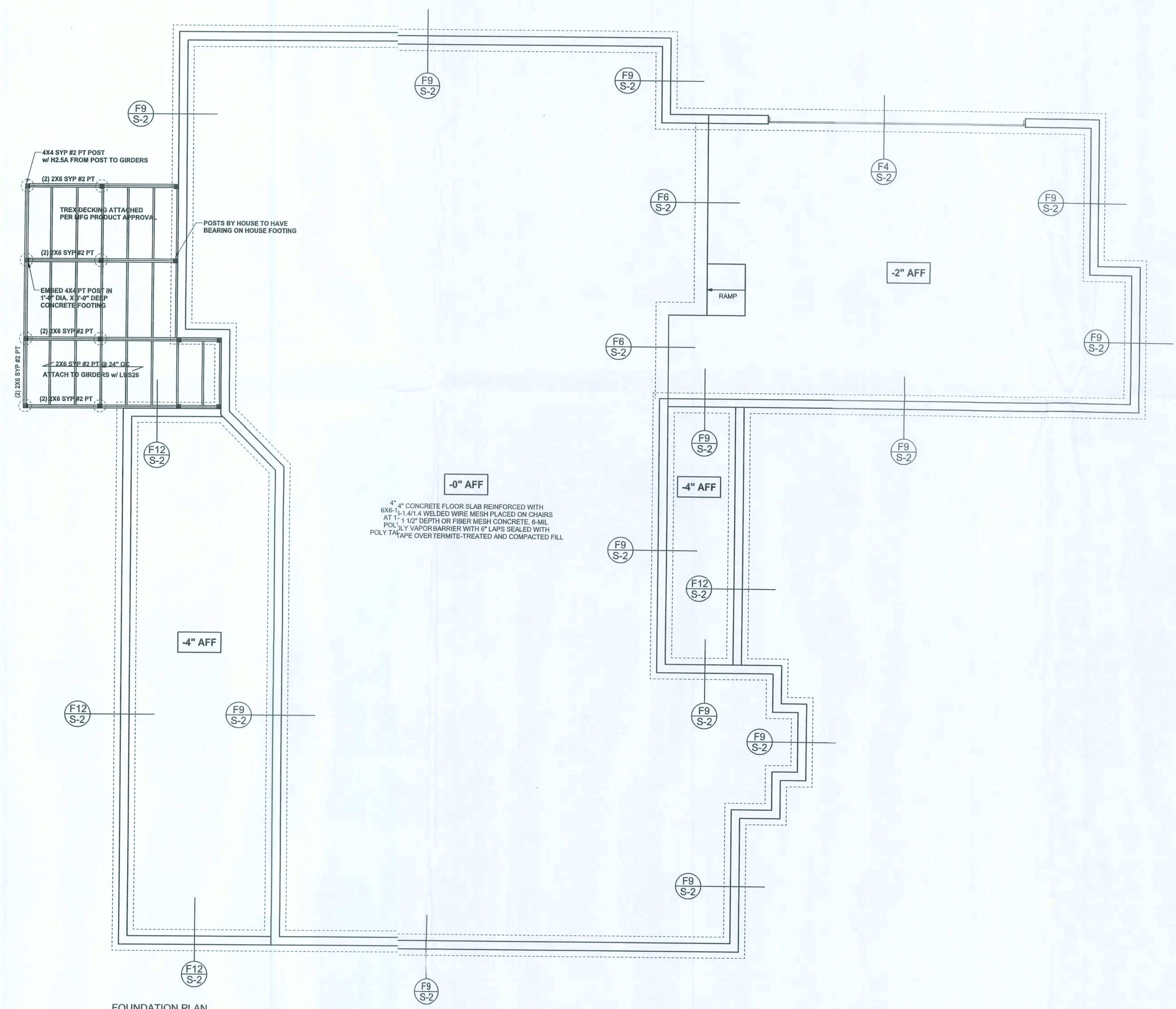


F4 S-2 GARAGE DOOR FOOTING
SCALE: 1/2" = 1'-0"

TALL STEM WALL TABLE

The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 15"OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48



FOUNDATION PLAN
SCALE: 3/16" = 1'-0"
DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER:
Mark Disosway, P.E.
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386-754-5419

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOSWAY
P.E. 53915

Mark Disosway
26 AUG 09
SEAL

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PRINTED DATE:
August 26, 2009

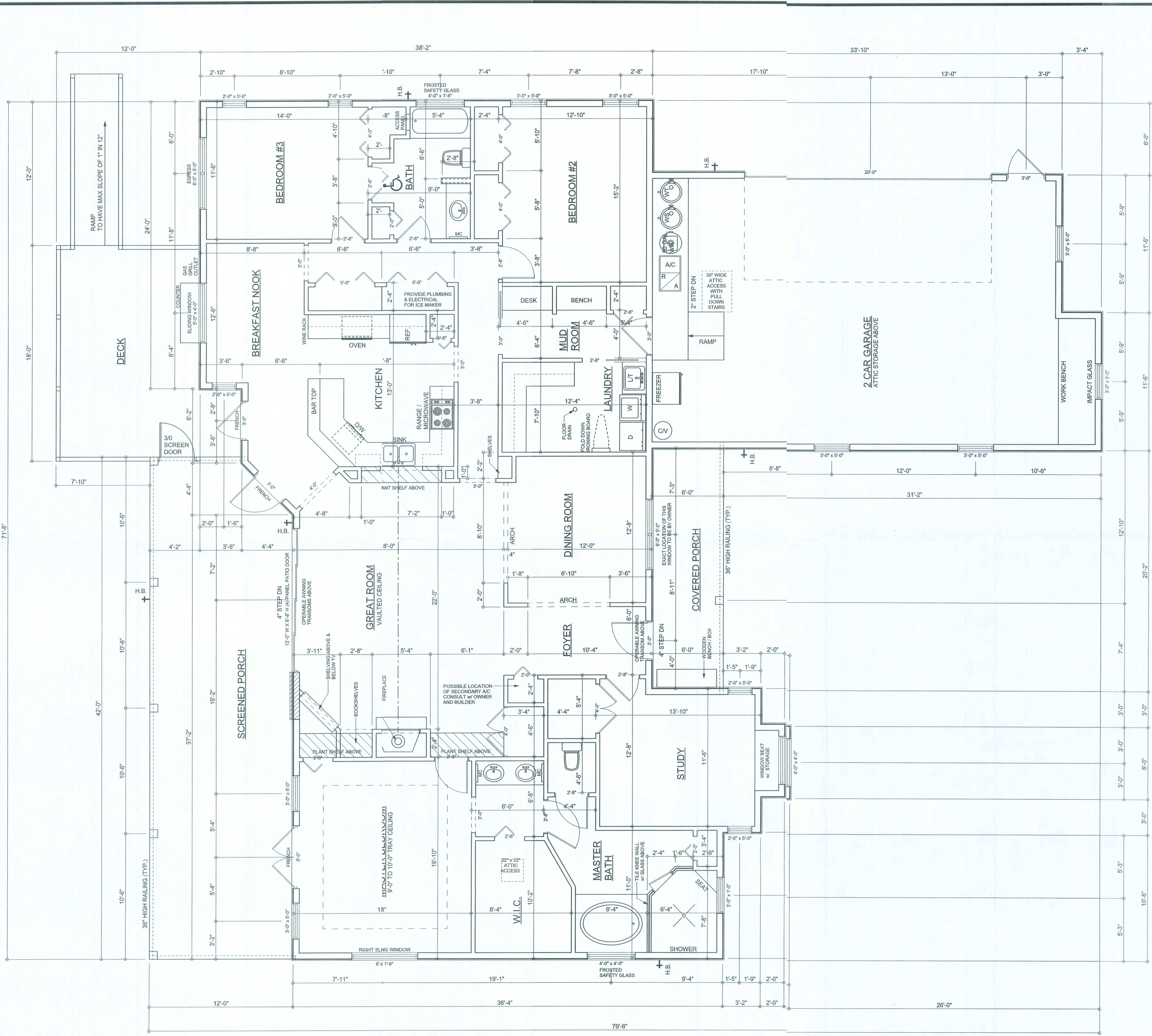
DRAWN BY: David Disosway
STRUCTURAL BY: David Disosway

FINALS DATE:
23 Jun 09

JOB NUMBER:
80804'a

DRAWING NUMBER
S-2
OF 7 SHEETS

APP # 07 08 12



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

ALL CEILINGS TO BE 9'-0" UNLESS NOTED OTHERWISE

Notes:
1. The private garage shall be separated from the dwelling unit and its attic area by means of a minimum 1/2-inch (12.7 mm) gypsum board applied to the garage side. Garage beneath habitable rooms shall be separated from the dwelling unit by a minimum 1/2-inch (12.7 mm) gypsum board applied to the dwelling unit side. Door openings between a private garage and the dwelling unit shall be designed with either a minimum 1/2-inch (12.7 mm) gypsum board or a minimum 5-minute fire-rated door assembly in accordance with Section 713.3.3. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted.
2. Ceiling purposes shall not be permitted penetrating the walls or ceilings separating the dwelling unit from the garage shall be constructed of a minimum 0.016-inch (0.48 mm) sheet steel and shall have a minimum 1/2-inch (12.7 mm) gypsum board applied to the dwelling unit side.
3. A separation is not required between a Group R-3 and U support provided the support is entirely open on two or more sides and there are not enclosed areas above.

AREA SUMMARY	
LIVING AREA	2583 S.F.
GARAGE AREA	817 S.F.
FRONT PORCH AREA	121 S.F.
SCREENED PORCH AREA	493 S.F.
DECK AREA	235 S.F.
TOTAL AREA	4249 S.F.

STAIR DESIGN LOAD REQUIREMENTS:

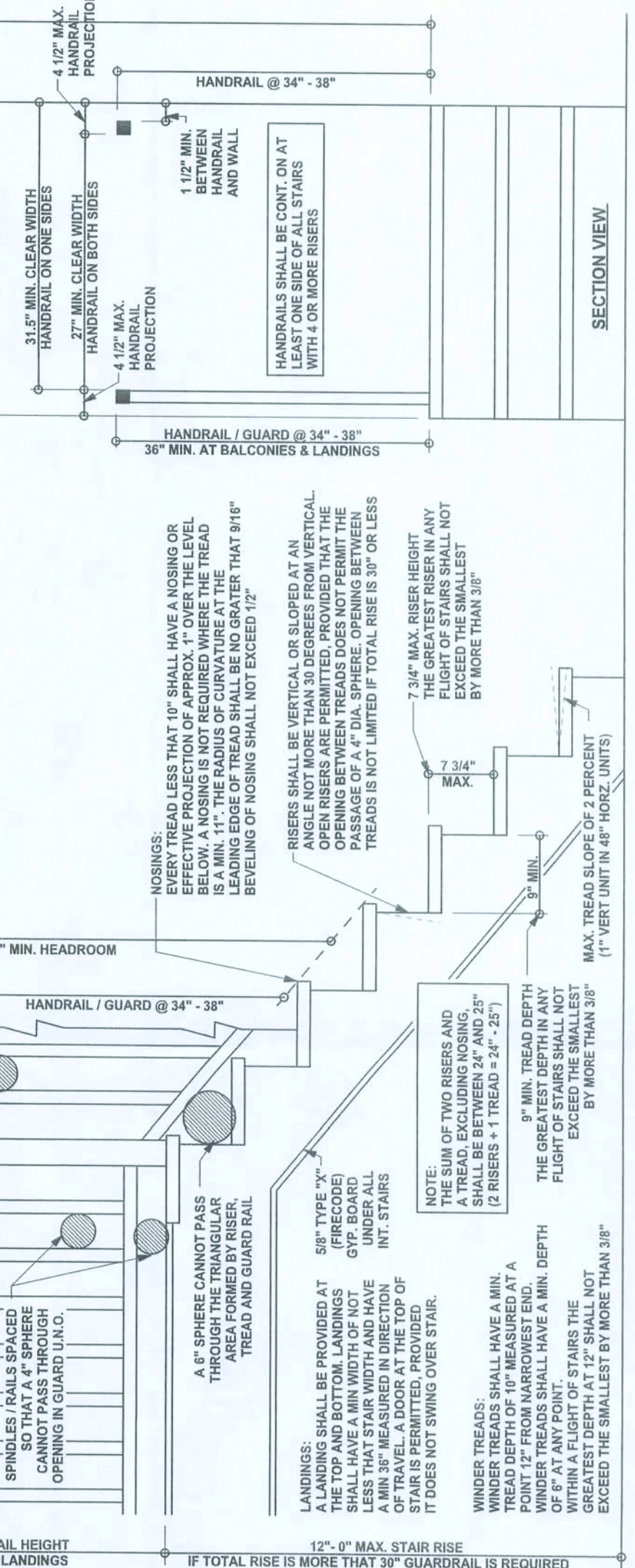
GUARDRAILS AND HANDRAILS:
- GUARDRAILS SHALL BE DESIGNED TO RESIST A UNIFORM LIVE LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP.
- GUARDRAILS IN-FILL COMPONENTS:
- 50 LB LIVE LOAD APPLIED HORIZONTALLY ON AN AREA EQUAL TO 1 FT² OF THE SURFACE.
- GLAZING USED IN HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED WITH A SAFETY FACTOR OF 1.5.
- THE RAIL AND TO THE LOAD ON THE IN-FILL COMPONENTS. THESE LOADS ARE ASSUMED NOT TO OCCUR WITH ANY OTHER LIVE LOAD.

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TYPICAL STAIR AND GUARDRAIL REQUIREMENTS

SCALE: 3/4" = 1'-0"

REVISIONS:

SOFTWARE
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER
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DIMENSIONS:
Standard dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section FDOT 2.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOWAY
P.E. 5015

SEA

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PRINTED DATE:
August 26 2009

DRAWN BY:
David Disoway

STRUCTURAL BY:
David Disoway

FINALS DATE:
23 Jun 09

JOB NUMBER:
80841a

DRAWING NUMBER
2

OF 7 SHEETS



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



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

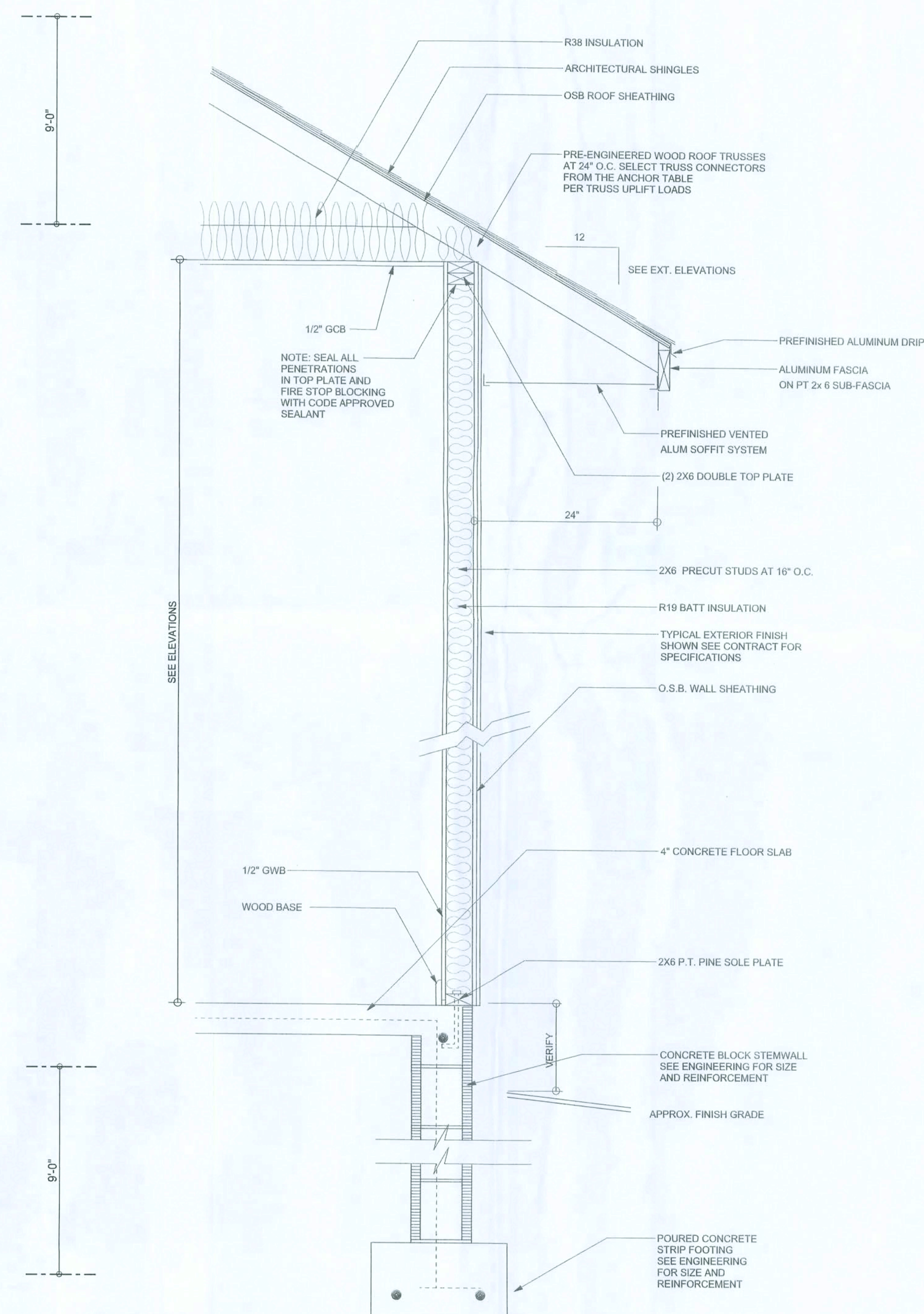
REQUIRED ROOF VENTILATION:
AS PER FLORIDA BUILDING CODE 2309.7

RIDGE VENT
MIN. 50% TOTAL VENT AREA
LOCATED IN THE UPPER PORTION OF ATTIC (MIN. 3" ABOVE EAVE)
4249 S.F. / 300 x 50% = 7.0 S.F. RIDGE VENT AREA REQUIRED
63.6 FEET OF RIDGE VENT REQUIRED

SOFFIT VENT
4249 S.F. / 300 x 50% = 7.0 S.F. SOFFIT VENT AREA REQUIRED
233.3 FEET OF SOFFIT VENT REQUIRED

BUILDER MUST VERIFY THE FOLLOWING MINIMUM NET FREE VENT AREAS:

1. RIDGE VENTS = 16 IN²/FT (1.1 FT²/FT)
2. OFF-RIDGE VENTS = .70 FT² PER 4' UNIT
3. SOFFIT VENTS = 4.3 IN²/FT (.03 FT²/FT)



TYPICAL DESIGN WALL SECTION
NON - STRUCTURAL DATA

SCALE: 1" = 1'-0"

REVISIONS	

SOFTWARE ARCHITECTURAL DESIGN SOFTWARE	
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WINDLOAD ENGINEER: Mark Disoway, P.E. No. 53915, P.O. Box 868, Lake City, FL 32056, 386-754-5419 DIMENSIONS: Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for resolution. Do not proceed without clarification. COPYRIGHTS AND PROPERTY RIGHTS: Mark Disoway, P.E. hereby expressly reserves its common law copyrights and property right in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Disoway. CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering compl with section RS01.2.1, Florida building code residential 2007, to the best of my knowledge. LIMITATION: This design is valid for one building, at specified location. Mark Disoway P.E. 53915 24 Jun 09 SEAL	
---	--

Louis J. & Elona D. Kisala Residence ADDRESS: Lot 34 HighPointe S/D Columbia County, Florida Mark Disoway P.E. P.O. Box 868 Lake City, Florida 32056 Phone: (386) 754 - 5419 Fax: (386) 69 - 4871 PRINTED DATE: June 23, 2009 DRAWN BY: David Disoway STRUCTURAL BY: David Disoway FINALS DATE: 23Jun09 JOB NUMBER: 80841a DRAWINGNUMBER 1 OF 7 SHEETS	
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LEFT ELEVATION
SCALE: 1/4" = 1'-0"



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

REVISIONS	

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER
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MARK DISOWAY
P.E. 5315

Mark Disoway
24 Jun 09

SEAL

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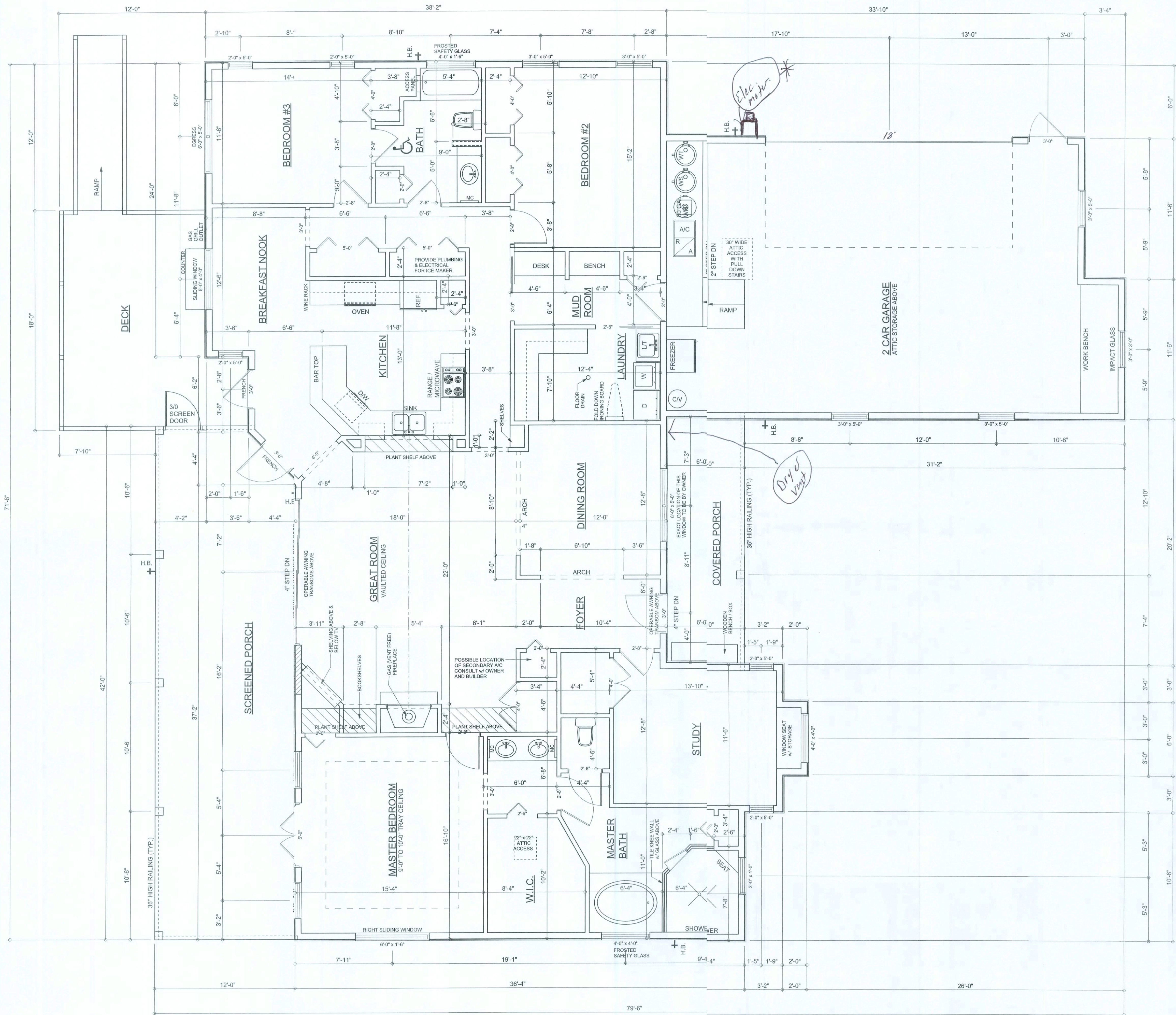
PRINTED DATE:
June 23, 2009

DRAWN BY: David Disoway	STRUCTURAL BY: David Disoway
-----------------------------------	--

FINALS DATE:
23 Jun 09

JOB NUMBER:
808(41a)

DRAWING NUMBER
2
OF 7 SHEETS



FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 ALL CEILINGS TO BE 9'-0" UNLESS NOTED OTHERWISE

Garage fire separations shall comply with the following:
 1. Minimum 1 1/2" thick gypsum board applied to the garage side.
 2. Minimum 1 1/2" thick gypsum board applied to the living area side.
 3. Minimum 1 1/2" thick gypsum board applied to the living area side.
 4. Minimum 1 1/2" thick gypsum board applied to the living area side.
 5. Minimum 1 1/2" thick gypsum board applied to the living area side.
 6. Minimum 1 1/2" thick gypsum board applied to the living area side.
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AREA SUMMARY

LIVING AREA	S.F.
2583	
GARAGE AREA	S.F.
817	
FRONT PORCH AREA	S.F.
121	
SCREENED PORCH AREA	S.F.
493	
DECK AREA	S.F.
235	
TOTAL AREA	S.F.
4249	

REVISIONS



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DIMENSIONS:
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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section RS012.1, Florida building code residential 2007, to the best of my knowledge.

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

MARK DISOWAY
 P.E. 5915
Mark Disoway
 2/21/09
 SEAL

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PRINTED DATE:
 June 23, 2009

DRAWN BY: David Disoway
STRUCTURAL BY: David Disoway

FINALS DATE:
 23Jun09

JOB NUMBER:
 80841a

DRAWING NUMBER

REVISIONS	

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

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MARK DISOWAY
P.E. 53915

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PRINTED DATE:
June 23 2009

DRAWN BY: David Disoway

STRUCTURAL BY: David Disoway

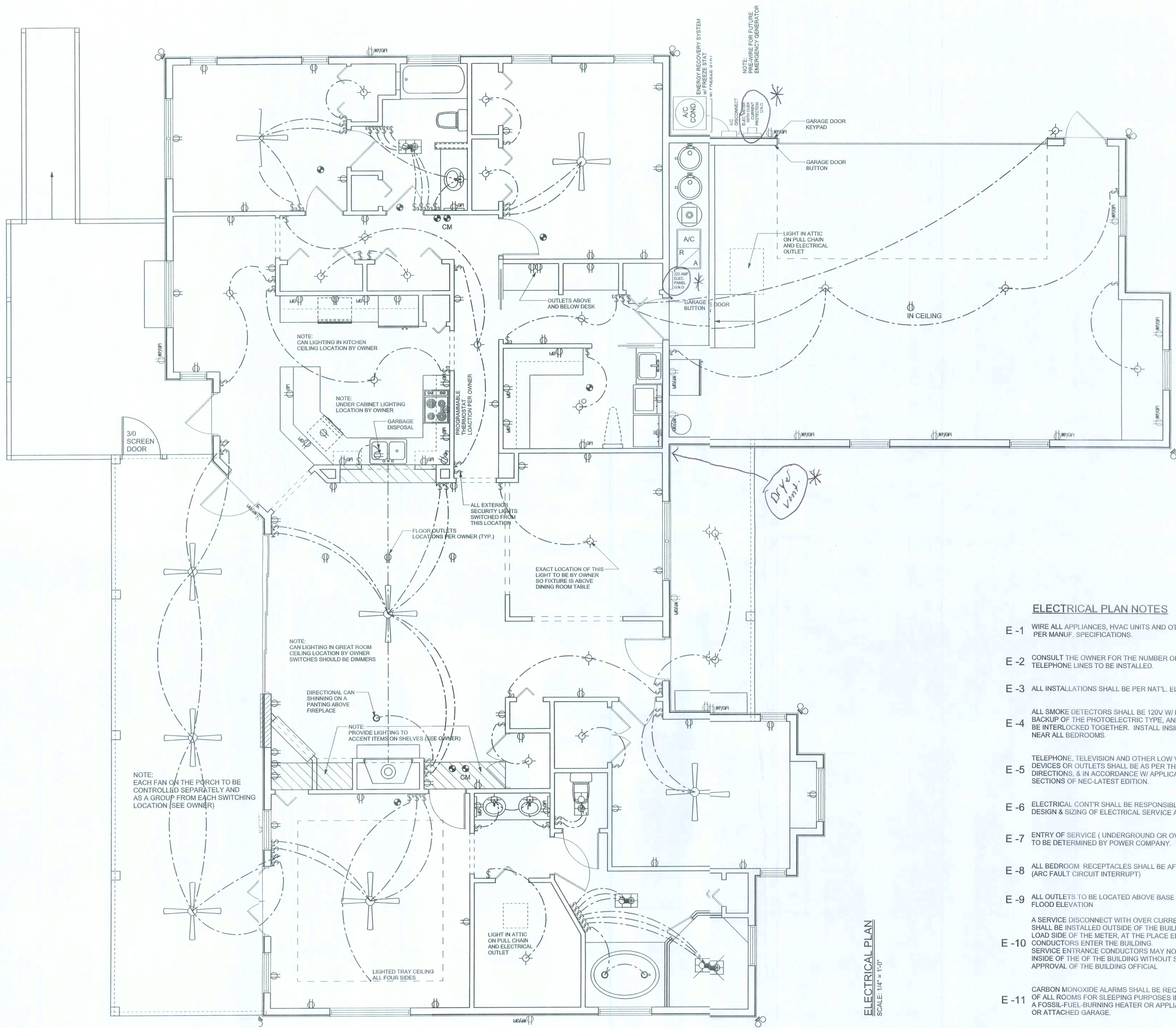
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23Jun09

JOB NUMBER:
803041a

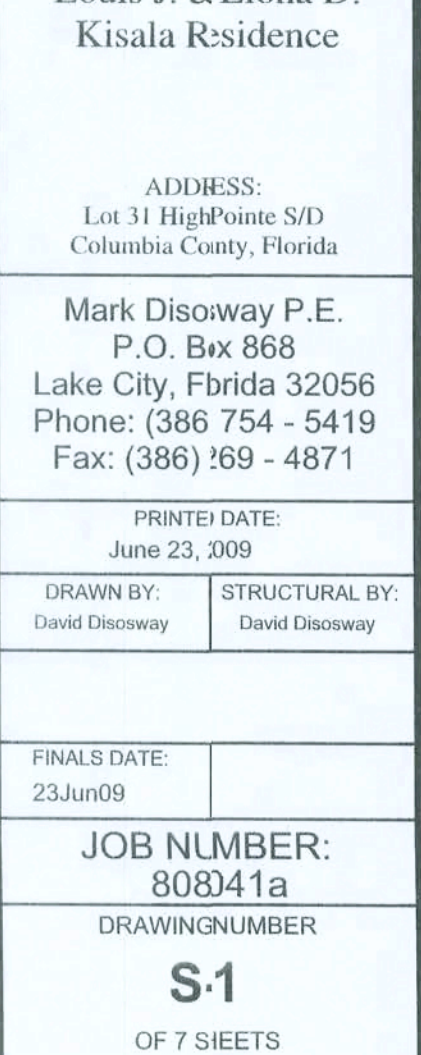
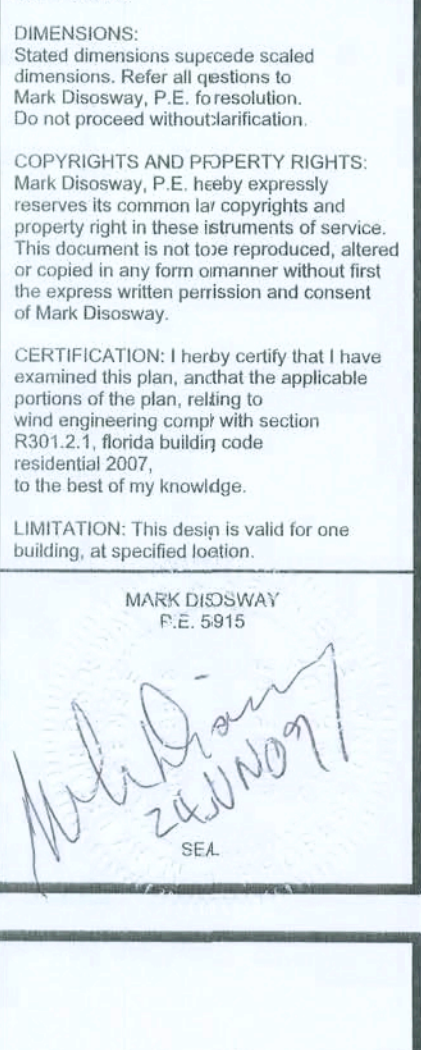
DRAWING NUMBER

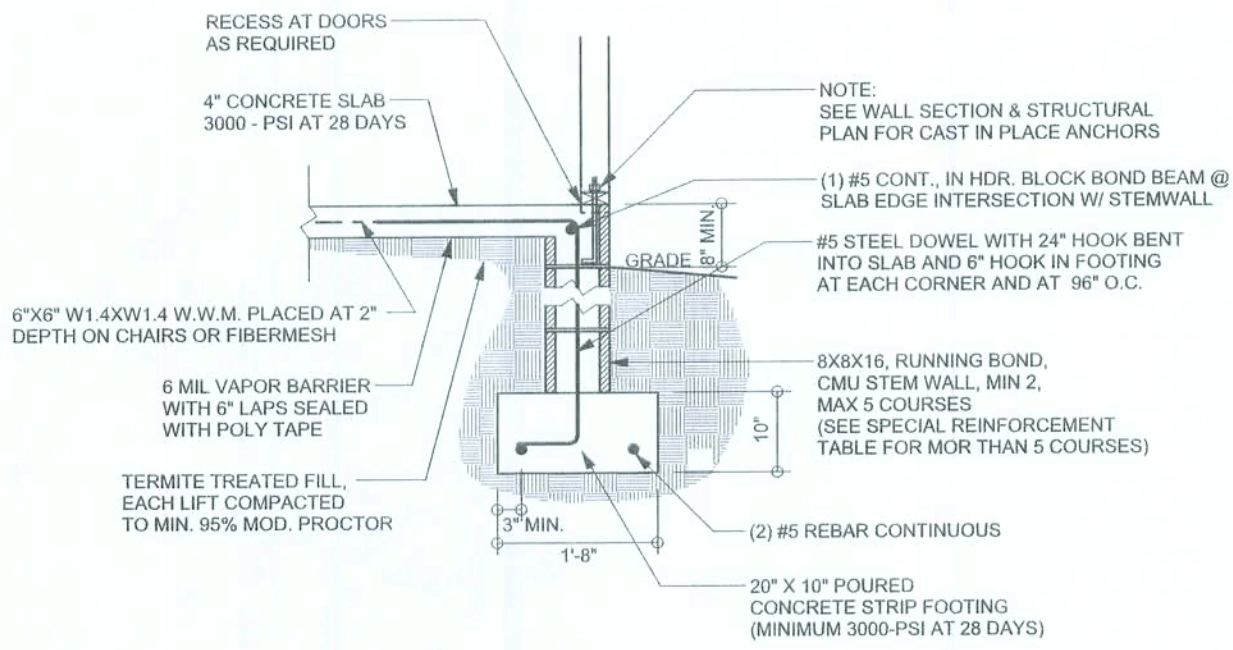
4

OF 7 SHEETS

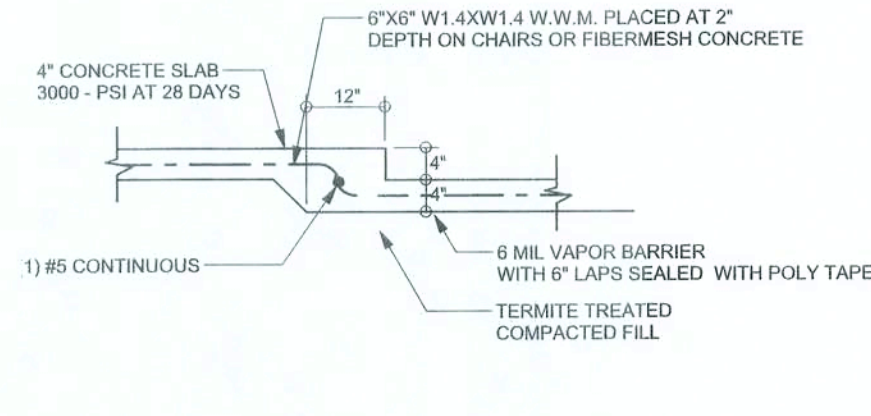


ELECTRICAL LEGEND	
	CEILING FAN (PRE-WIRE FOR LIGHT KIT) AND VARIABLE SPEED CONTROL
	DOUBLE SECURITY LIGHT ON TIMER
	2X4 FLUORESCENT LIGHT FIXTURE
	RECESSED CAN LIGHT
	BATH EXHAUST FAN WITH LIGHT
	BATH EXHAUST FAN & HEATER WITH LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220V OUTLET
	GFI DUPLEX 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

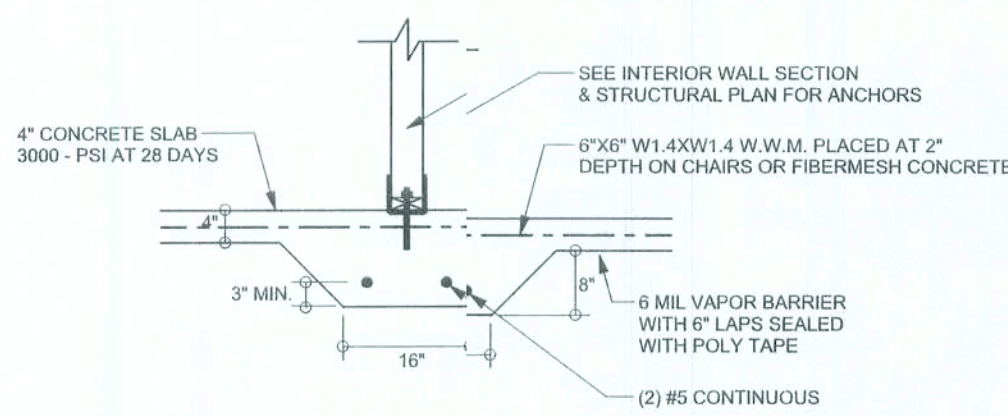




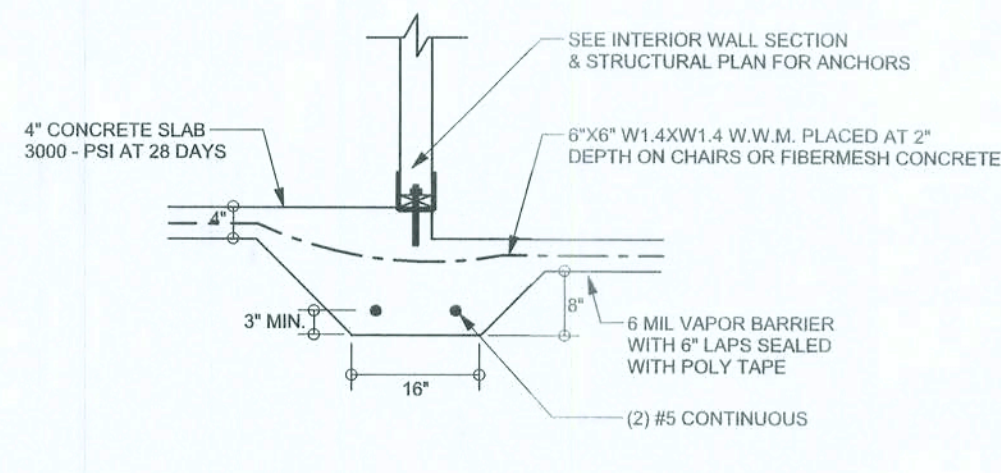
F9
S-2 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



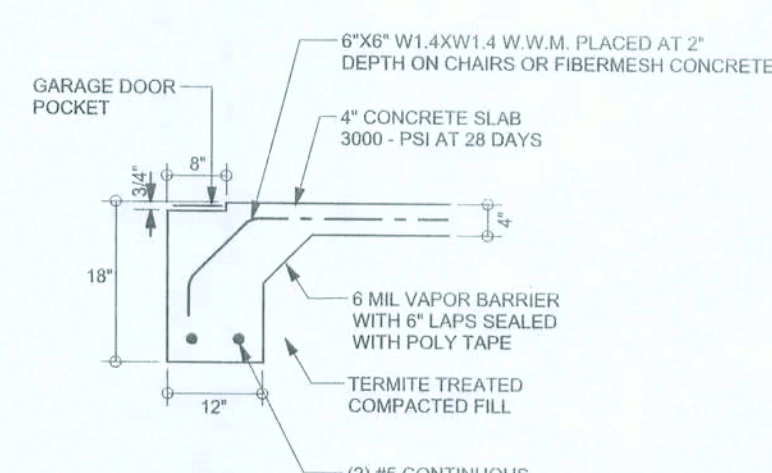
B
S-2 TYPICAL NON-BEARING STEP FOOTING
SCALE: 1/2" = 1'-0"



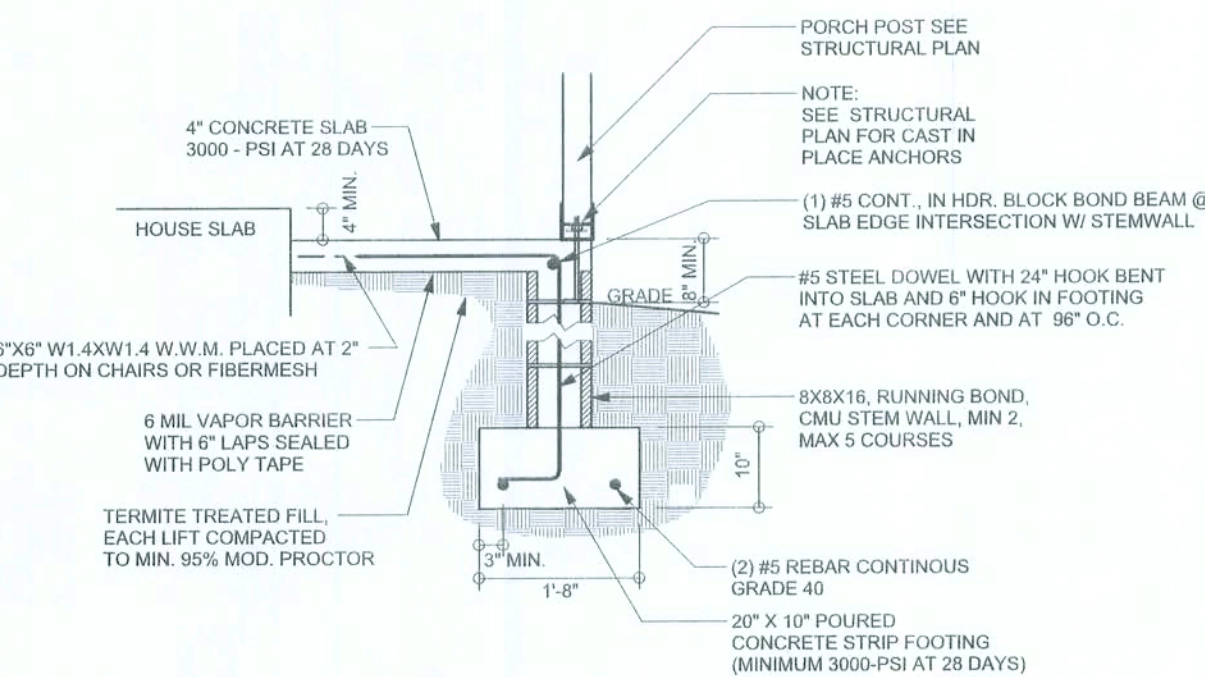
F2
S-2 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



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



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

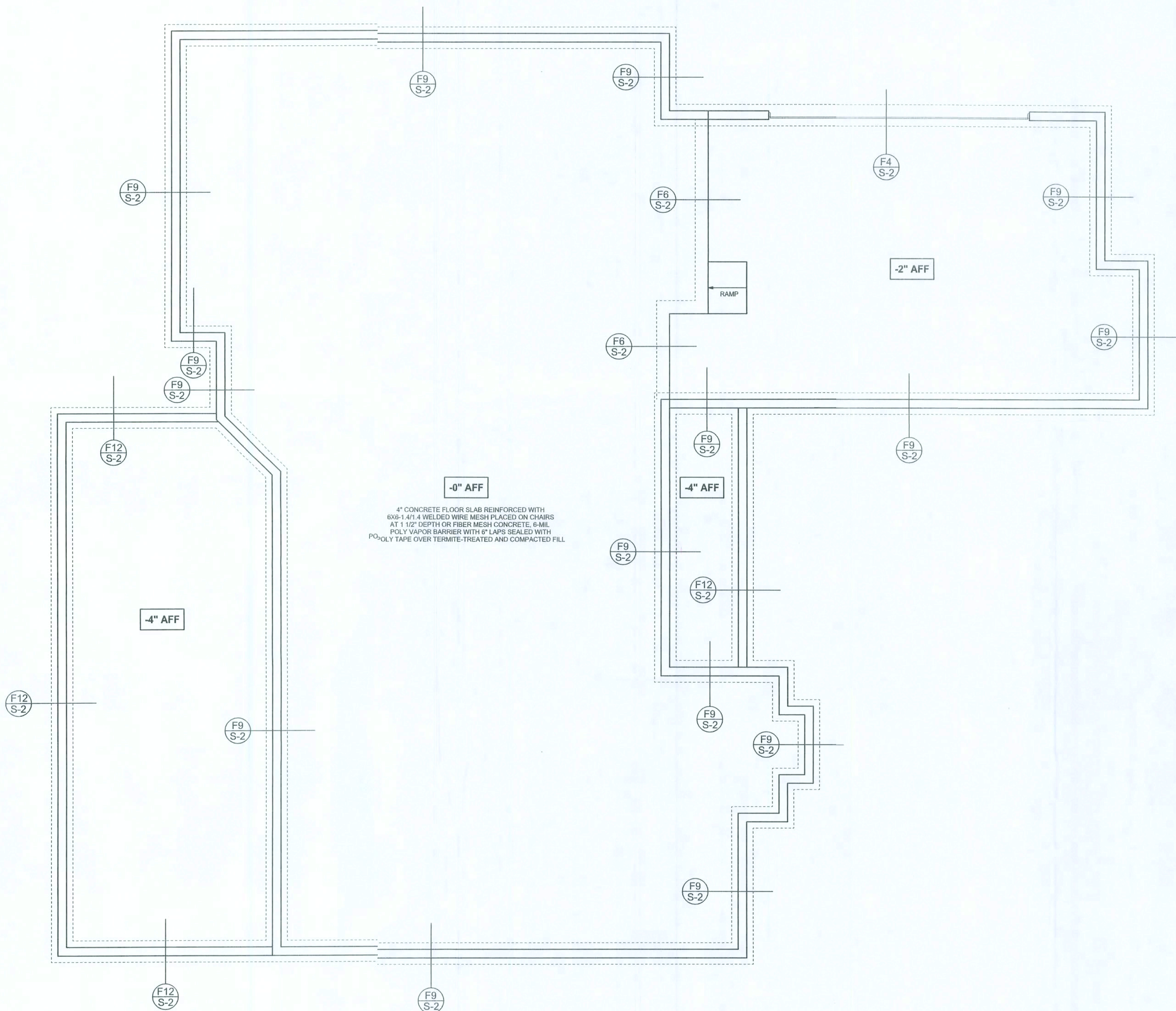


F12
S-2 STEM WALL PORCH FOOTING
SCALE: 1/2" = 1'-0"

TALL STEM WALL TABLE

The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 16" O.C. vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

STEM WALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	5.0	56	96	96	96	96	96
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48



FOUNDATION PLAN
SCALE: 3/16" = 1'-0"
DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS

REVISIONS	

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER:
Mark Discoway, P.E.
No. 53915, POB 868, Lake City, FL 32056,
386-754-8419

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Discoway, P.E. or resolution. Do not proceed without clarification.

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with section R301.2.1, Florida building code residential 2007, to the best of my knowledge.

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

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PRINTED DATE:
June 23 2009
DRAWN BY: David Discoway
STRUCTURAL BY: David Discoway

FINALS DATE:
23Jun09

JOB NUMBER:
803041a

DRAWING NUMBER

S-2

OF 7 SHEETS

STRUCTURAL PLAN NOTES

- SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 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 BC3H-03, BC3H-B1, BC3H-B2, & BC3H-B3. BC3H-B1, BC3H-B2, & BC3H-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

WALL LEGEND

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

THREADED ROD LEGEND

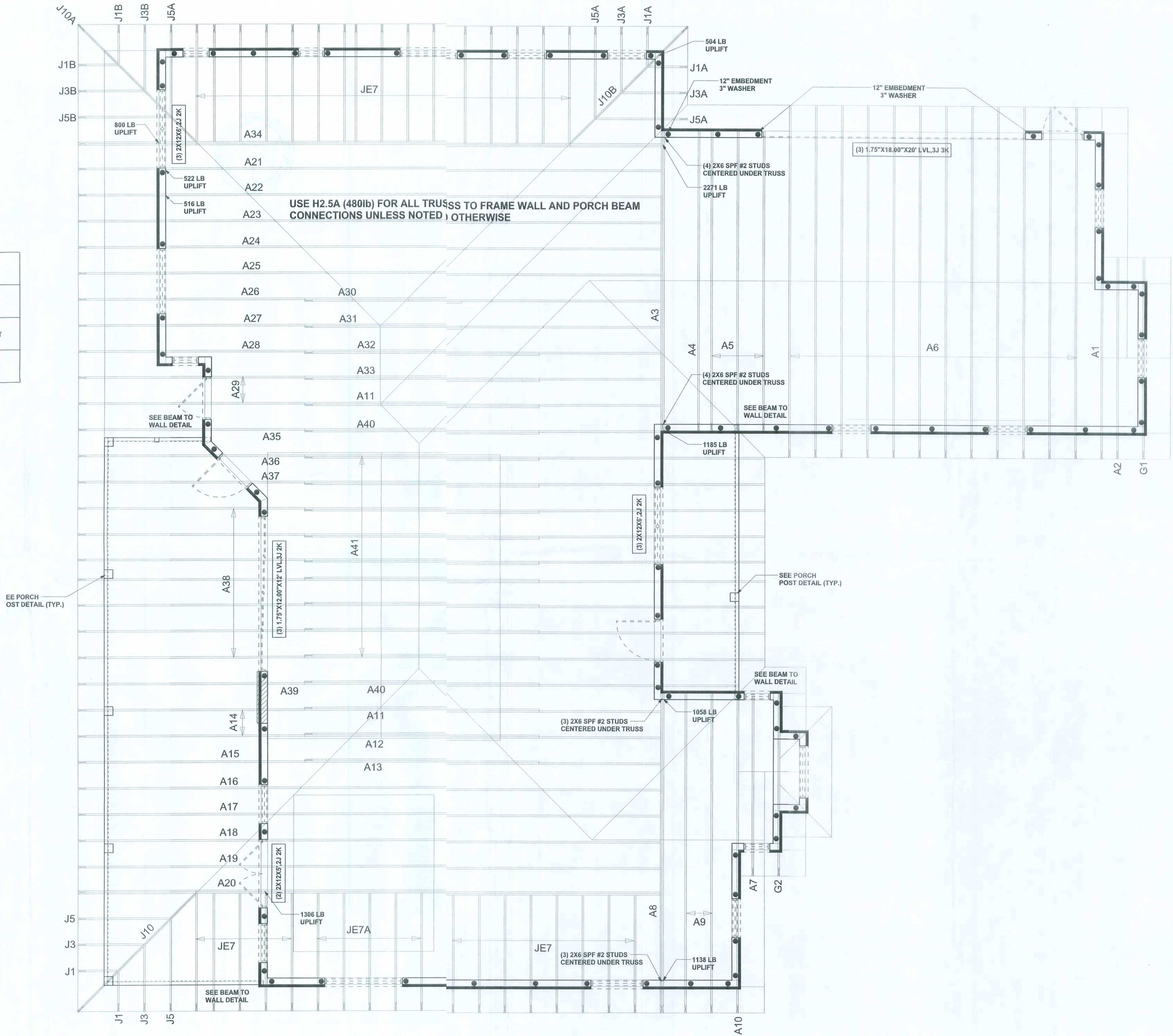
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HEADER LEGEND

-
- NUMBER OF KING STUDS (FULL LENGTH)
- NUMBER OF JACK STUDS (UNDER HEADER)
- SPAN OF HEADER
- SIZE OF HEADER MATERIAL
- NUMBER OF PLYS IN HEADER

TOTAL SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	82.5'	94.5'
LONGITUDINAL	53.2'	58.0'



STRUCTURAL PLAN
SCALE: 1/4\"/>

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY BUILDER. HOWLANDS TRUSS
JOB # 6281

REVISIONS

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

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DIMENSIONS:
Stated dimensions upgrade scaled
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CERTIFICATION: I hereby certify that I have
examined this plan, and that the applicable
portions of the plan, relating to
wind engineering compl with section
RSB 2.1, Florida building code
residential 2007,
to the best of my knowledge.

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

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DRAWN BY: David Disoway STRUCTURAL BY: David Disoway

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DRAWING NUMBER
S3
OF 7 SHEETS