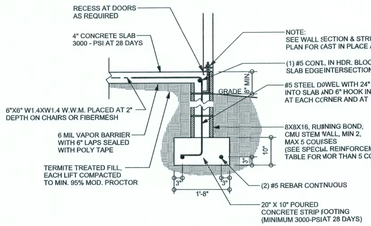
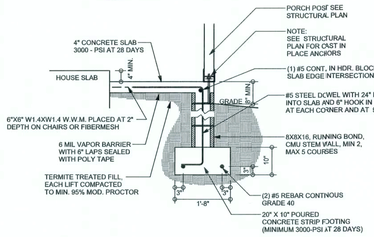
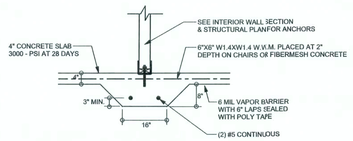


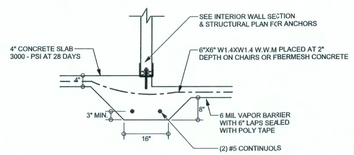
F9 / S-2 STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



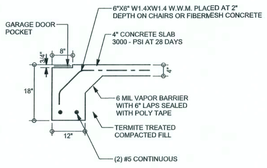
F12 / S-2 ALT. STEM WALL PORCH FOOTING
SCALE: 1/2" = 1'-0"



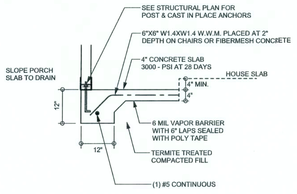
F2 / S-2 INTERIOR BEARING FOOTING
SCALE: 1/2" = 1'-0"



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



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

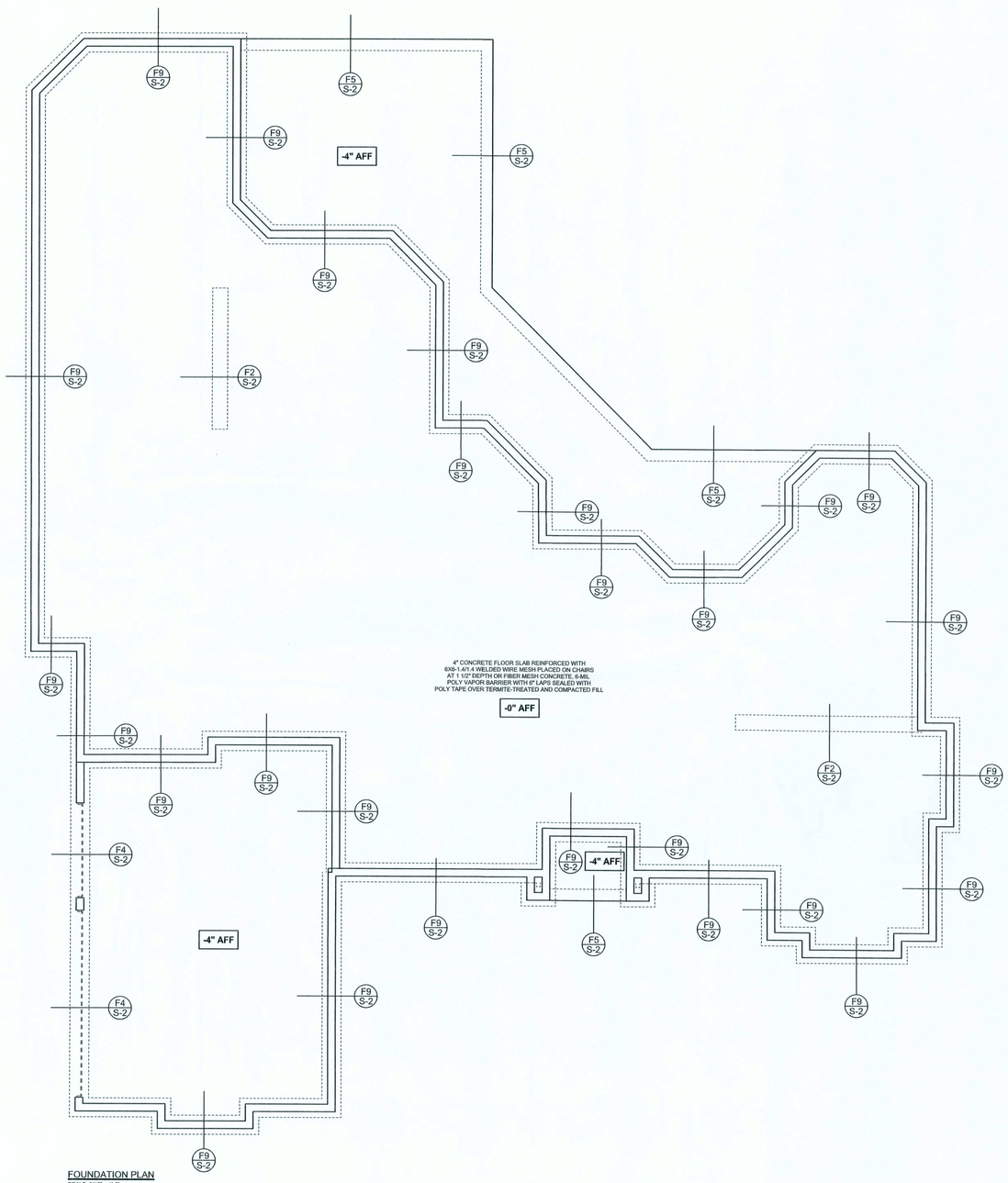


F5 / S-2 PORCH FOOTING
SCALE: 1/2" = 1'-0"

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"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.

STEMWALL HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEMWALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEMWALL (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 Disoway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

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

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 2004, to the best of my knowledge.

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

MARK DISOSWAY
P.E. 53915

SEAL

Glenwood King Construction

Kevin Gray Residence

ADDRESS:
Columbia County, Florida

Mark Disoway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871

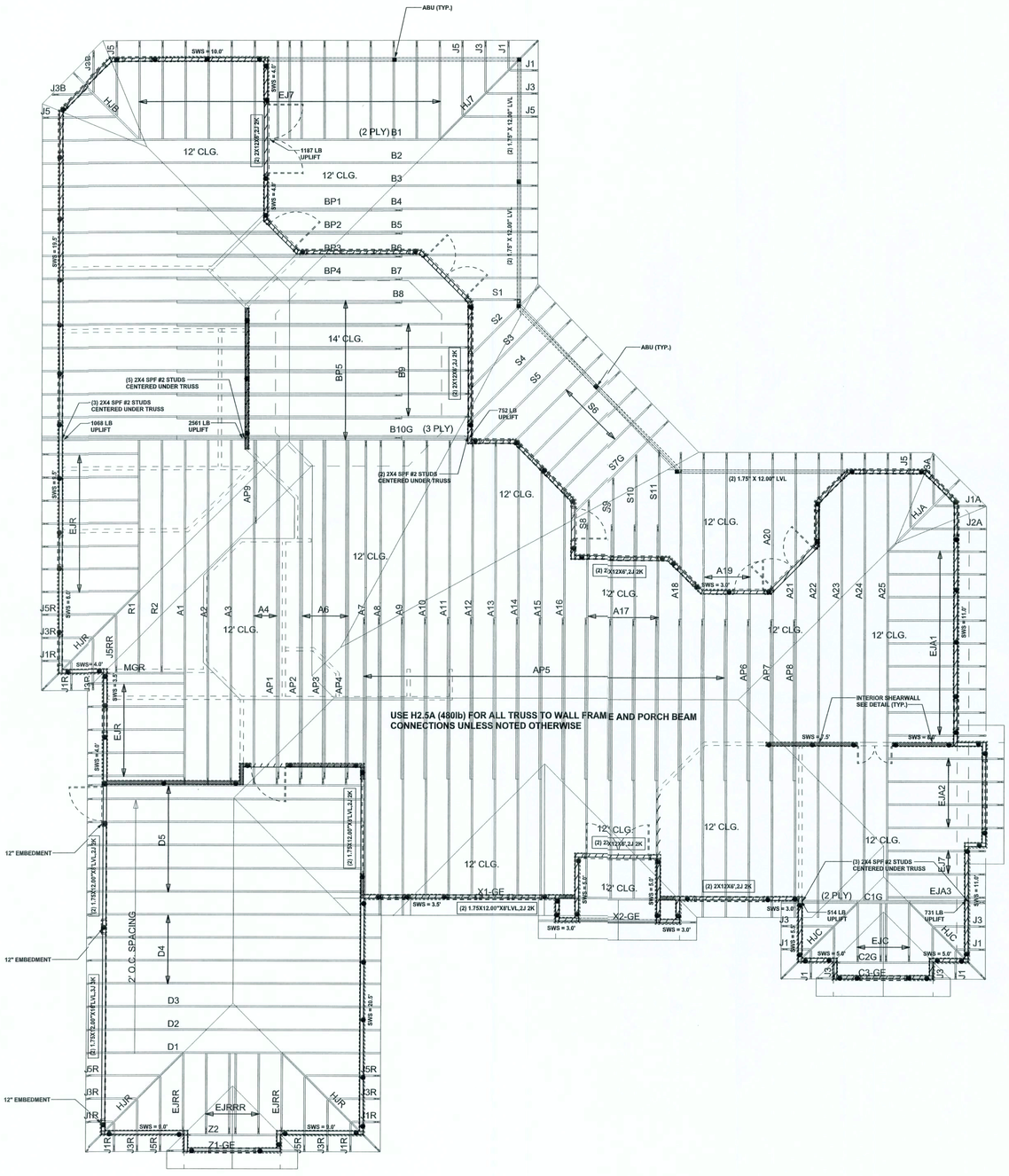
PRINTED DATE: August 09, 2006

DRAWN BY: | STRUCTURAL BY: David Disoway

FINALS DATE: 08 / Aug / 06

JOB NUMBER: 608087

DRAWING NUMBER
S-2
OF 3 SHEETS



STRUCTURAL PLAN
SCALE: 3/16" = 1'-0"

STRUCTURAL PLAN NOTES

SN-1 ALL LOAD BEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X12 SYPN2 (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 BCSI1-03, 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

SWS = 6.0'	1ST FLOOR EXTERIOR WALL
SWS = 6.0'	2ND FLOOR EXTERIOR
IBW	1ST FLOOR INTERIOR BEARING WALLS SEE DETAILS ON SHEET S-1
IBW	2ND FLOOR INTERIOR BEARING WALLS SEE DETAILS ON SHEET S-1

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

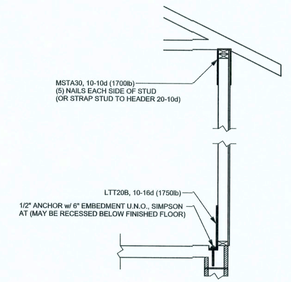
HEADER LEGEND

(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

SWS = 0.0' INDICATES SHEAR WALL SEGMENTS

	REQUIRED	ACTUAL
TRANSVERSE	48.5'	108.0'
LONGITUDINAL	39.0'	73.0'



ALTERNATE WALL TIE CONNECTION WHERE THREADED ROD CANNOT BE PLACED IN WALL.
SCALE: 1/2" = 1'-0"

CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON REACTIONS & UPLIFTS FROM TRUSS ENGINEERING FURNISHED BY ANDERSON TRUSS JOB #6-268

REVISIONS

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

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

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 2004, to the best of my knowledge.

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

MARK DISOSWAY
P.E. 53915
STATE OF FLORIDA
SEAL

Glenwood King Construction

Kevin Gray Residence

ADDRESS:
Columbia County, Florida

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871

PRINTED DATE: August 09, 2006

DRAWN BY:

STRUCTURAL BY: David Disosway

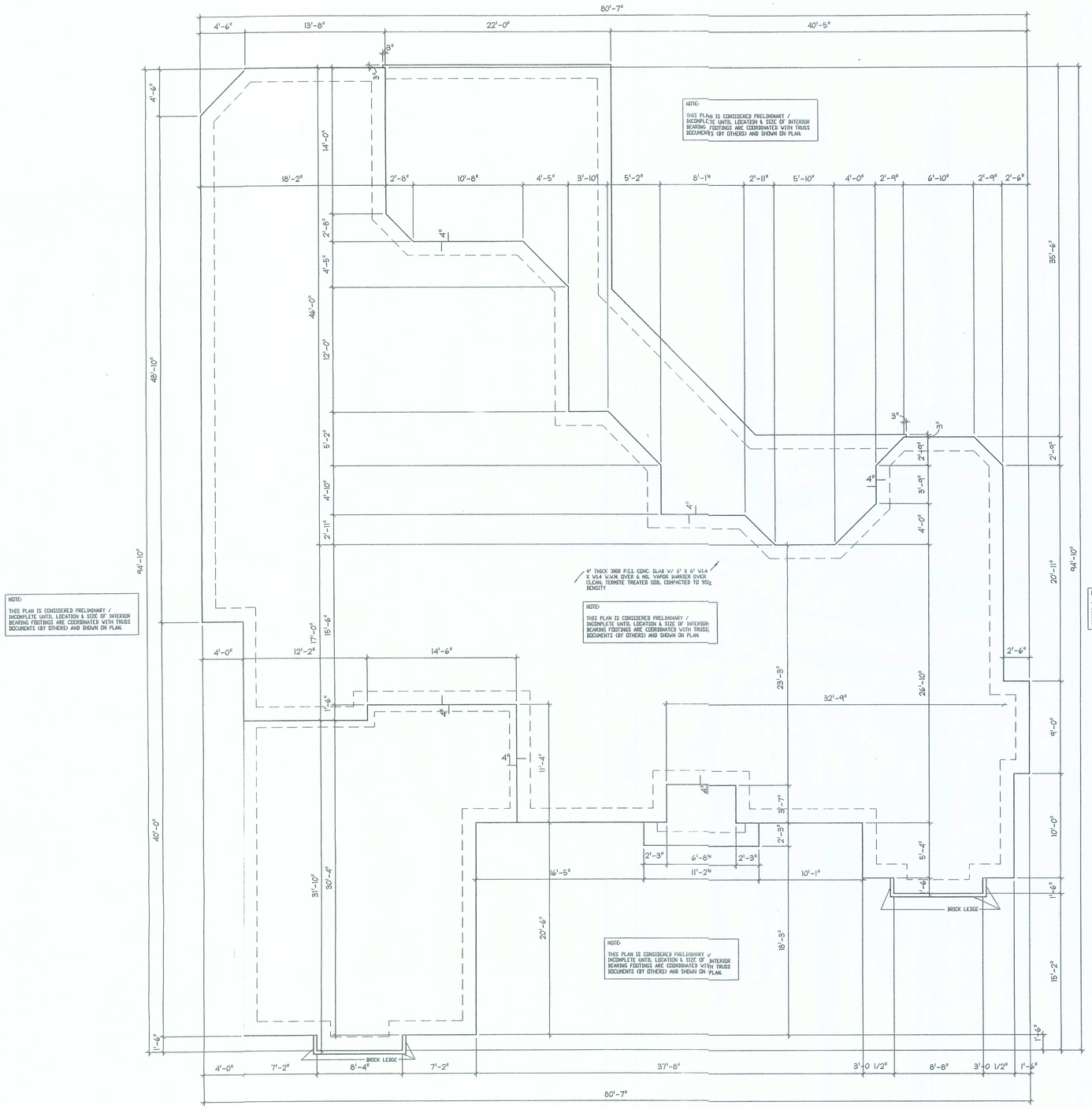
FINALS DATE: 08 / Aug / 06

JOB NUMBER: 608087

DRAWING NUMBER
S-3
OF 3 SHEETS

NOTE:

THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.



NOTE:

THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.

4" THICK 3000 P.S.I. CONC. SLAB W/ 6" X 6" W1.4 X W1.4 W.W.M. OVER 6 MIL VAPOR BARRIER OVER CLEAN, TERMITE TREATED SOIL COMPACTED TO 95% DENSITY

NOTE:

THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.

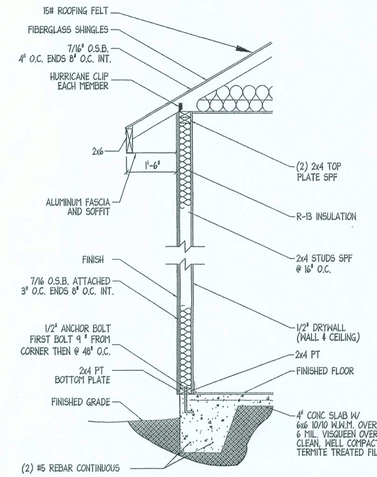
NOTE:

THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.

FOUNDATION PLAN

NOTE:

THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.



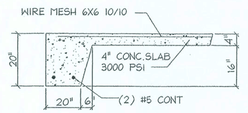
TYPICAL WALL SECTION

scale: 3/8" =1'-0"

NOTE:

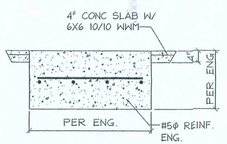
THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.

Leftside Garage



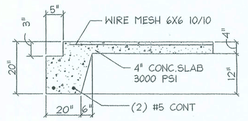
MONOLITHIC SLAB

NTS



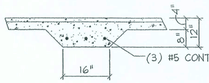
PAD FOOTING

NTS



MONO SLAB W/BRICK LEDGE

NTS

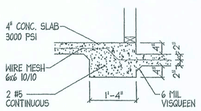


INTERIOR BEARING WALL

NTS

NOTE:

THIS PLAN IS CONSIDERED PRELIMINARY / INCOMPLETE UNTIL LOCATION & SIZE OF INTERIOR BEARING FOOTINGS ARE COORDINATED WITH TRUSS DOCUMENTS (BY OTHERS) AND SHOWN ON PLAN.



STEP-DOWN FOOTING

NTS

FOOTING DETAILS

DATE:	7 / 5 / 06
JOB #:	CO-430
SCALE:	3/16" = 1'-0"
DRAWING:	430-FNDN
DRAWN BY:	CAD
APPROVED BY:	CS

FOUNDATION PLAN

SHANNON HOMES
3921 NW 97th Blvd. ◦ Gainesville, Florida 32606
(352) 331-8801 ◦ FAX (352) 331-4833

PROPOSED RESIDENCE FOR
MR. & MRS. GRAY

Heather Kevin

M. SHANNON

C. SHANNON

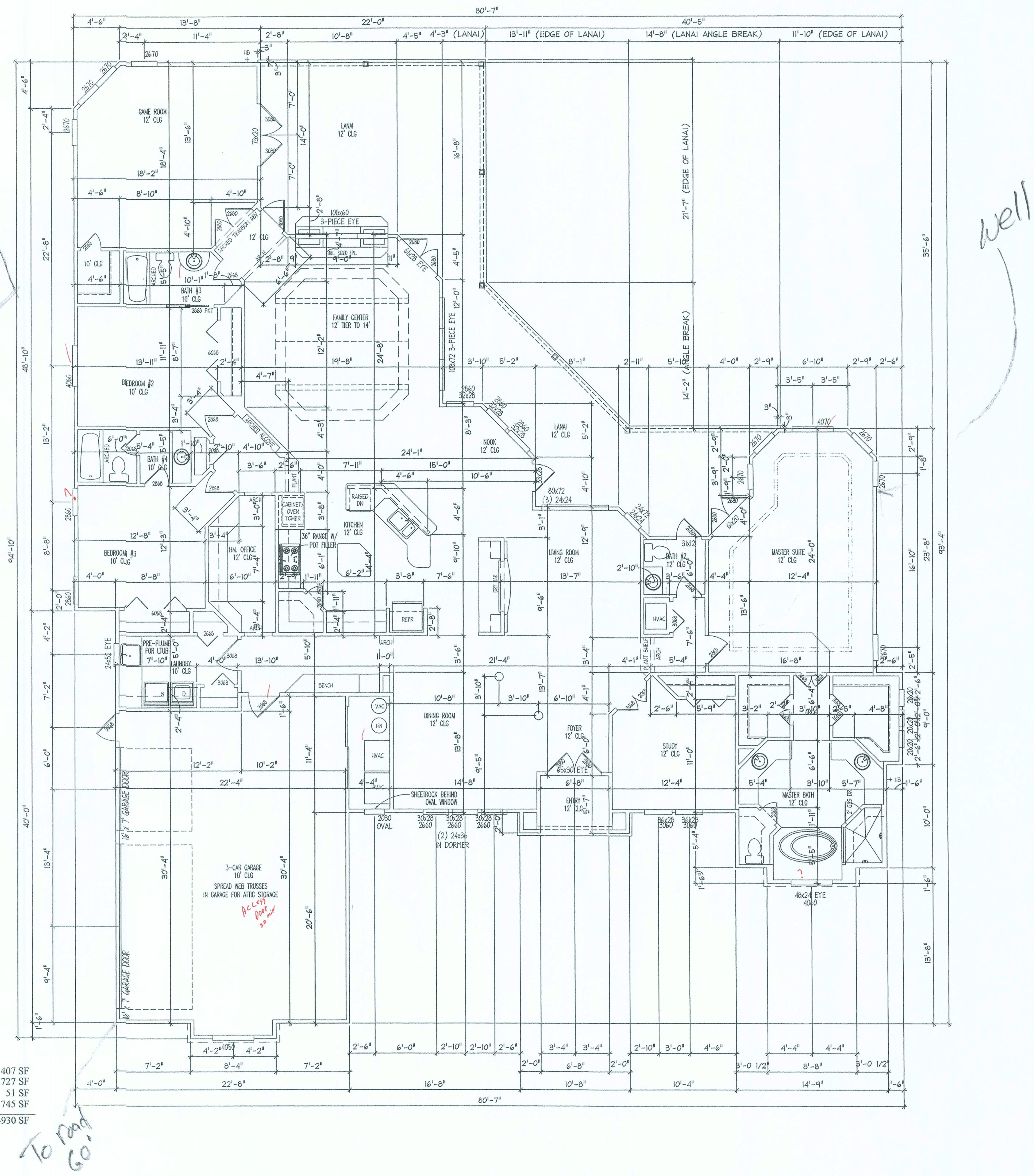
CLIENTS

CLIENTS

SUPERINTENDENT

DATE

1 OF 7



GREY RESIDENCE

MAIN LIVING	3407 SF
LANAI	727 SF
ENTRY	51 SF
GARAGE	745 SF
TOTAL	4930 SF

DATE:	7 / 5 / 06
JOB #:	CO-430
SCALE:	3/16" = 1'-0"
DRAWING:	430-DIM
DRAWN BY:	CAD
APPROVED BY:	CS

GREY RESIDENCE

MAIN LIVING	3407 SF
LANAI	727 SF
ENTRY	51 SF
GARAGE	745 SF
TOTAL	4930 SF

SHANNON HOMES

PROPOSED RESIDENCE FOR MR. & MRS. GRAY

M. SHANNON

C. SHANNON

CLIENTS

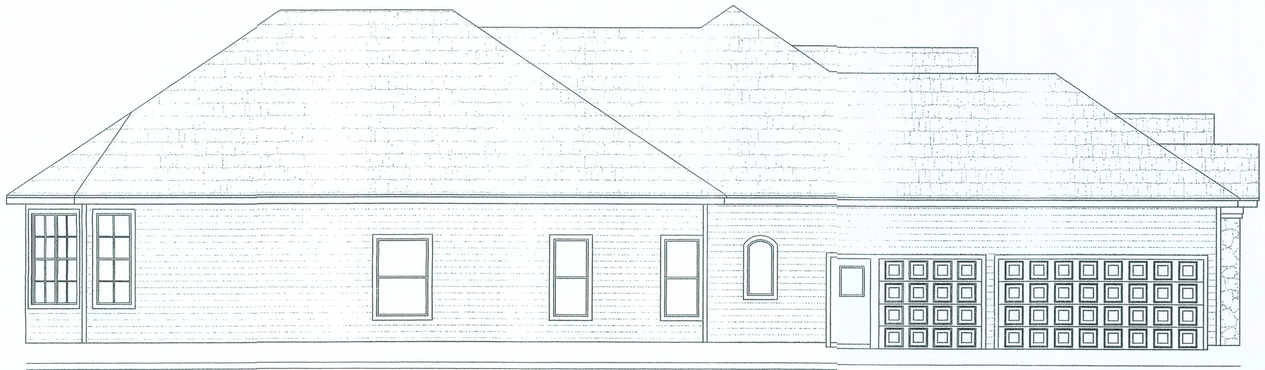
CLIENTS

SUPERINTENDENT

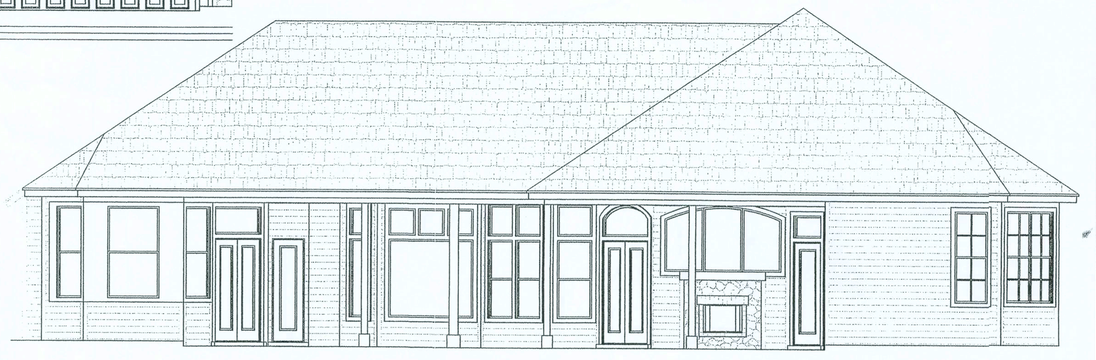
DATE

2 OF 7

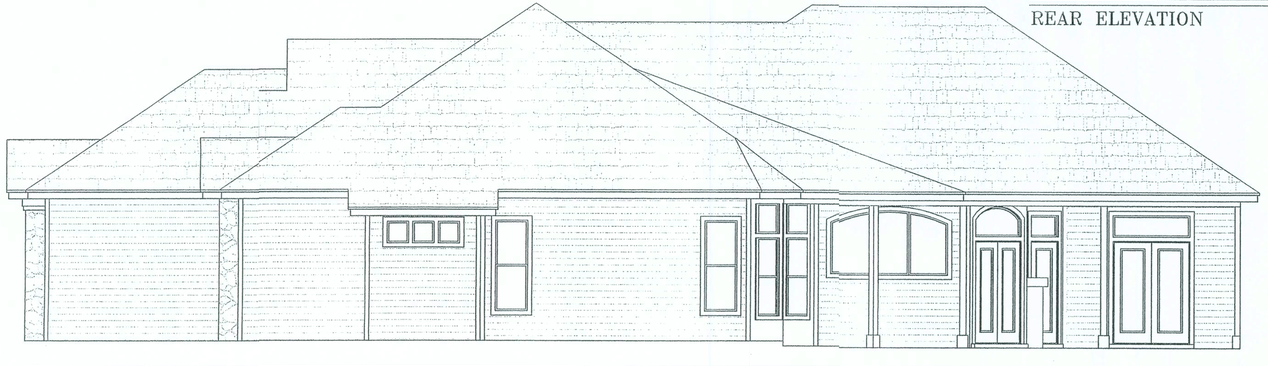
FRONT ELEVATION



LEFT ELEVATION



REAR ELEVATION



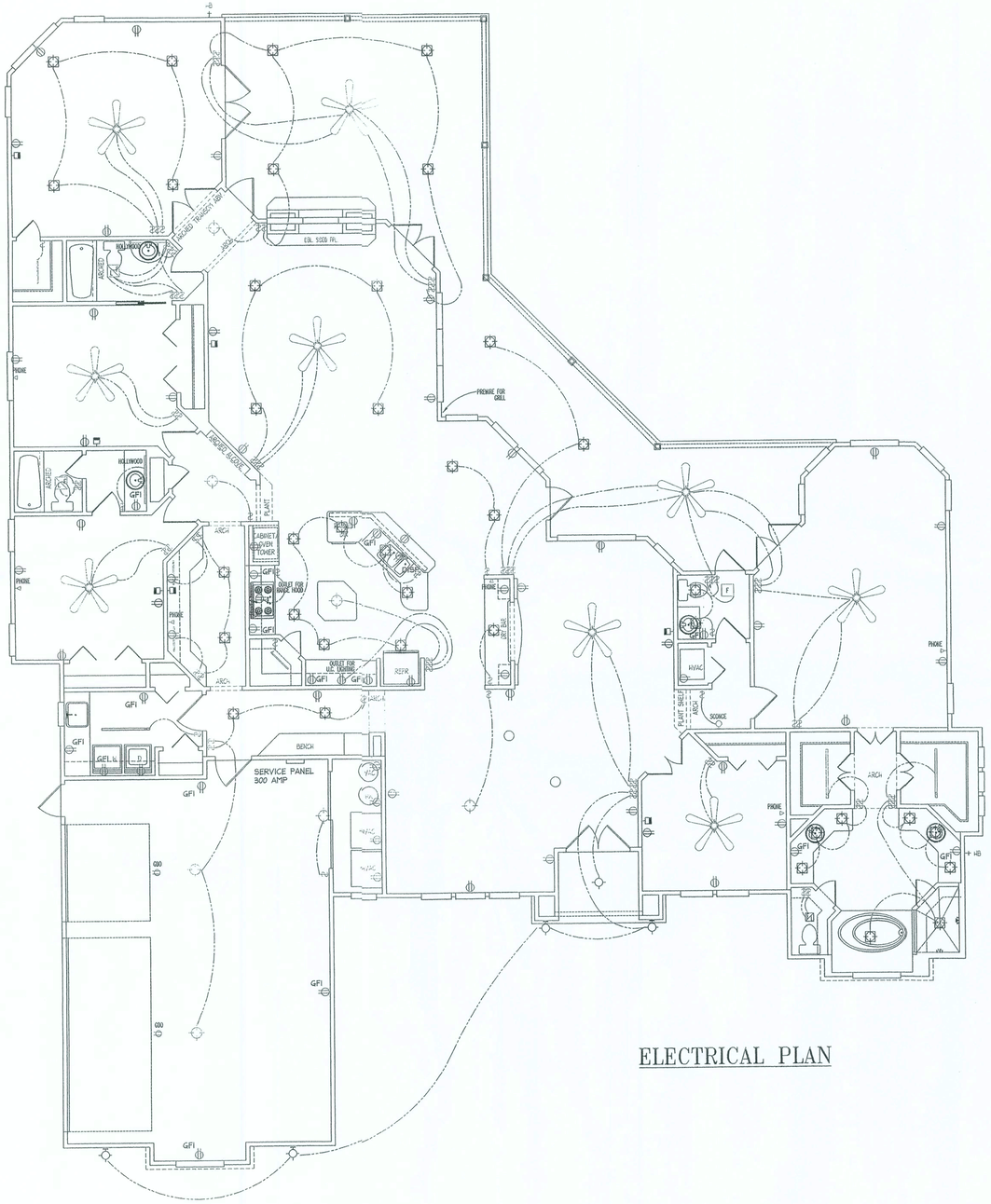
RIGHT ELEVATION

DATE: 7/5/06
JOB #: CO-430
SCALE: 3/16"=1'-0"
DRAWING: 430-ELEV
DRAWN BY: CAD
APPROVED BY: CS

SHANNON HOMES
3731 NW 87th Blvd. • Gainesville, Florida 32606
(352) 331-4400 • FAX: (352) 331-4433

PROPOSED RESIDENCE FOR
MR. & MRS. GRAY

M. SHANNON
C. SHANNON
CLIENTS
CLIENTS
SUPERINTENDENT
DATE



ELECTRICAL PLAN

ELECTRICAL LEGEND

- SINGLE OUTLET
- SWITCH OUTLET
- WP WEATHER-PROOF OUTLET
- 230-VOLT OUTLET
- GFI OUTLET 42" AFF
- 220V GFI OUTLET 42" AFF
- S SINGLE POLE SWITCH
- S3 THREE POLE SWITCH
- S4 FOUR POLE SWITCH
- S__D POLE SWITCH W/DIMMER
- LOW-VOLTAGE SWITCH
- RECESSED LIGHT FIXTURE
- SURFACE MOUNT FIXTURE
- WALL MOUNT FIXTURE
- EYEBALL LIGHT
- UNDERCOUNTER REC CAN
- PUSH BUTTON FOR ELEC GARAGE DOOR OPENER
- INSTALLED CEILING FAN
- INSTALLED CEILING FAN W/LIGHT FIXT
- FLUORESCENT LIGHT FIXTURE
- RECESSED FLUOR LIGHT FIXTURE
- HOLLYWOOD STRIP HOLLYWOOD STRIP
- SD SURFACE MOUNT SMOKE DETECTOR
- EXHAUST FAN
- FAN/LIGHT COMBO
- SECURITY LIGHT
- LANDSCAPING GROUND LIGHTING
- 220 AMP PANEL BOX
- PHONE
- TELEVISION
- DOORBELL
- CHIMES DOORBELL CHIMES

ELECTRICAL NOTES

01. ELECTRICAL PLAN FOR DESIGN PURPOSES ONLY.
02. ALL ELECTRICAL OUTLETS IN THE BATHROOMS, KITCHEN, & UTILITIES NEAR SINKS & ANY OTHER PLUMBING ARE TO BE GROUND-FAULT CIRCUIT-INTERUPTER TYPE OR AS SPECIFIED BY LOCAL CODE; ALSO IN GARAGE AND EXTERIOR OUTLETS.
03. INSTALL LIGHT IN ATTIC WITH SWITCH AT ATTIC ACCESS UNLESS NOTED OTHERWISE.
04. GARAGE OUTLETS INSTALLED AT 42" ABOVE FINISHED FLOOR OR AS SPECIFIED BY LOCAL CODE.
05. ALL ELECTRICAL LOCATION AND QUANTITY TO BE VERIFIED & COORDINATED WITH OWNER PRIOR TO INSTALLATION.
06. COORDINATE POOL LIGHTS AND LANDSCAPE LIGHTS & SWITCH LOCATIONS WITH OWNER.
07. PREWIRE FOR STEREO - COORDINATE WITH OWNER (VERIFY W/BUILDER'S SPEC'S).
08. SECURITY ALARM SYSTEM - COORDINATE WITH OWNER VERIFY W/BUILDER'S SPECS).
09. OPTIONAL: PREWIRE INTERCOM AND SPEAKERS SYSTEM - COORDINATE WITH OWNER.
10. PROVIDE REQUIRED ELECTRICAL FOR POOL & POOL DECK.
11. PROVIDE DISCONNECT SWITCH FOR AIR HANDLER IN SPACE REQ'D & LOCATE ON SITE W/ BUILDER & A/C CONTRACTOR.
12. PROVIDE OPTIONAL ELECTRIC TO MASTER BATH TUB (OR AS REQ'D FOR WHIRLPOOL HOOK UP PER OWNER.
13. PROVIDE REQUIRED BRACING IN ATTIC FOR HANGING CHANDALIERS.
14. PROVIDE & INSTALL SMOKE DETECTORS AS REQUIRED BY LOCAL CODE.

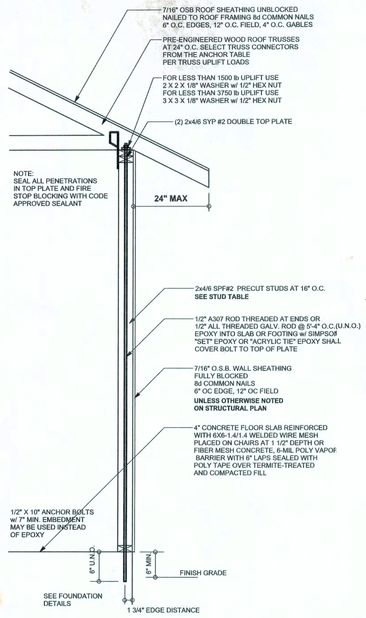
DATE: 7/5/06
JOB #: CO-430
SCALE: 3/16" = 1'-0"
DRAWING: 430-ELEC
DRAWN BY: CAD
APPROVED BY: CS

ELECTRICAL PLAN

SHANNON HOMES
7777 NW 71st Ct. • Ocala, Fla. 34476
(352) 237-6822 • FAX (352) 237-6833

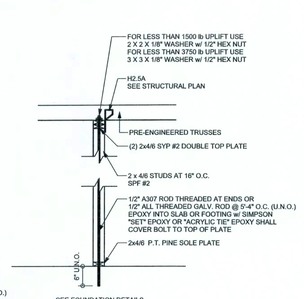
PROPOSED RESIDENCE FOR
MR. & MRS. GRAY

M. SHANNON
C. SHANNON
CLIENTS
CLIENTS
SUPERINTENDENT
DATE



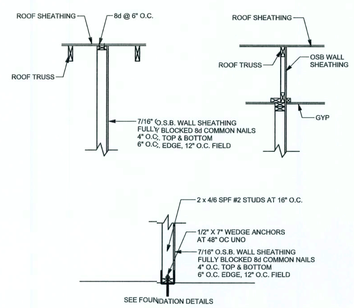
ONE STORY WALL SECTION

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



INTERIOR BEARING WALL

SCALE: 1/2" = 1'-0"



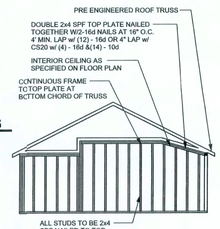
INTERIOR SHEAR WALL DETAIL

SCALE: 1/2" = 1'-0"

EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS

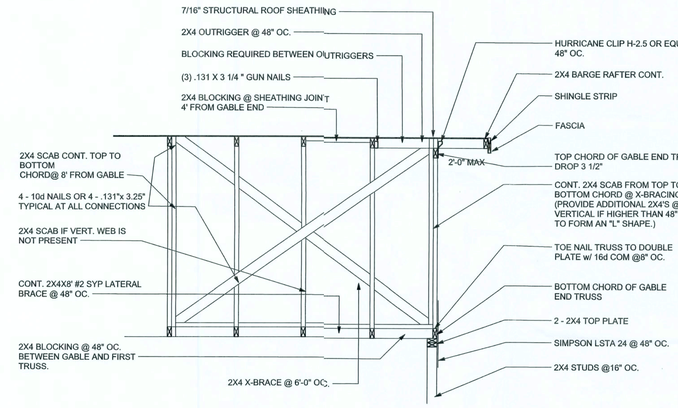
(1) 2x4 @ 16" OC	TO 11'-9" STUD HEIGHT
(1) 2x4 @ 12" OC	TO 13'-0" STUD HEIGHT
(1) 2x6 @ 16" OC	TO 18'-10' STUD HEIGHT
(1) 2x6 @ 12" OC	TO 20.0' STUD HEIGHT

THIS STUD HEIGHT TABLE IS PER WFCM 2001, TABLE 3.20B, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS RESISTING INTERIOR ZONE WINDLOADS 110 MPH EXPOSURE B. STUD SPACINGS SHALL BE MULTIPLIED BY 0.85 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING. EXAMPLE 16" O.C. x 0.85 = 13.6" O.C.



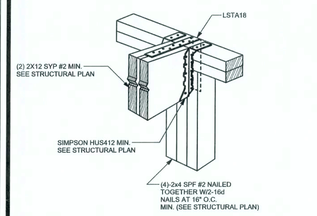
CONTINUOUS FRAME TO CEILING DIAPHRAGM DETAIL

SCALE: N.T.S.



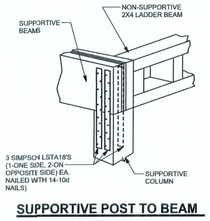
TYPICAL GABLE END (X-BRACING)

ALL MEMBERS SHALL BE SYp



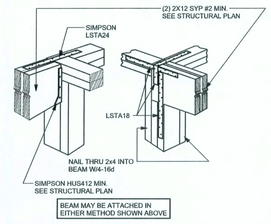
BEAM MID-WALL CONNECTION DETAIL

SCALE: N.T.S.



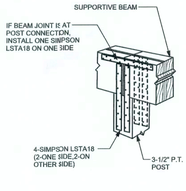
SUPPORTIVE POST TO BEAM DETAIL FOR SINGLE BEAM

SCALE: N.T.S.



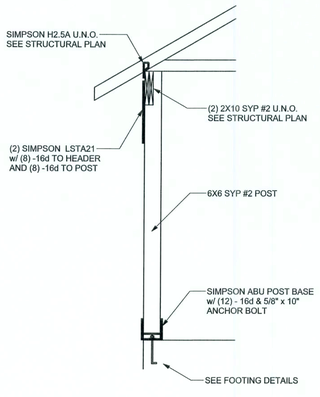
BEAM CORNER CONNECTION. DETAIL

SCALE: N.T.S.



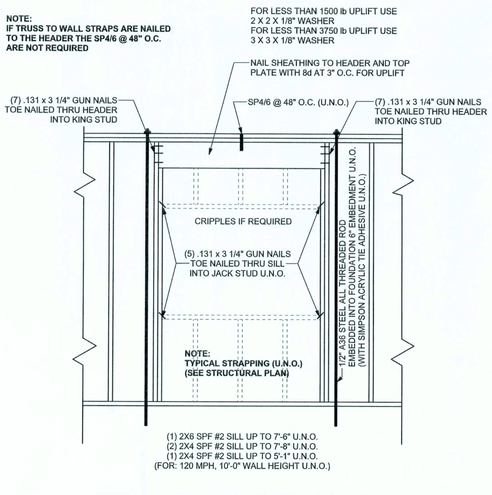
SUPPORTIVE CENTER POST TO BEAM DETAIL

SCALE: N.T.S.



TYPICAL PORCH POST DETAIL

SCALE: 1/2" = 1'-0"



TYPICAL 1 STORY HEADER STRAPING DETAIL

SCALE: 1/2" = 1'-0"

ANCHOR TABLE

OBTAIN UPLIFT REQUIREMENTS FROM TRUSS MANUFACTURER'S ENGINEERING

UPLIFT LBS. SYP	UPLIFT LBS. SPF	TRUSS CONNECTOR*	TO PLATES	TO RAFTER/TRUSS	TO STUDS
< 420	< 245	H5A	3-8d	3-8d	
< 455	< 265	H5	4-8d	4-8d	
< 360	< 235	H4	4-8d	4-8d	
< 455	< 320	H3	4-8d	4-8d	
< 415	< 365	H2.5	5-8d	5-8d	
< 600	< 535	H2.5A	5-8d	5-8d	
< 950	< 820	H6	8-8d	8-8d	
< 745	< 565	H8	5-10d, 1 1/2"	5-10d, 1 1/2"	
< 1465	< 1050	H14-1	13-8d	12-8d, 1 1/2"	
< 1465	< 1050	H14-2	15-8d	12-8d, 1 1/2"	
< 990	< 850	H10-1	8-8d, 1 1/2"	8-8d, 1 1/2"	
< 760	< 655	H10-2	6-10d	6-10d	
< 1470	< 1265	H16-1	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1470	< 1265	H16-2	10-10d, 1 1/2"	2-10d, 1 1/2"	
< 1000	< 860	MTS24C	7-10d 1 1/2"	7-10d 1 1/2"	
< 1450	< 1245	HTS24	12-10d 1 1/2"	12-10d 1 1/2"	
< 2900	< 2490	2 - HTS24			
< 2050	< 1785	LGT2	14 -16d	14 -16d	
		HEAVY GIRDER TIEDOWNS*			**TO FOUNDATION**
< 3965	< 3330	MGT		22 -10d	1-5/8" THREADED ROD 12" EMBEDMENT
< 10980	< 6485	HGT-2		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 10530	< 9035	HGT-3		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
< 9250	< 9250	HGT-4		16 -10d	2-5/8" THREADED ROD 12" EMBEDMENT
		STUD STRAP CONNECTOR*			**TO STUDS**
< 435	< 435	SSP DOUBLE TOP PLATE	3 -10d		4 -10d
< 455	< 420	SSP SINGLE SILL PLATE	1 -10d		4 -10d
< 825	< 825	DSP DOUBLE TOP PLATE	6 -10d		8 -10d
< 825	< 600	DSP SINGLE SILL PLATE	2 -10d		8 -10d
< 885	< 760	SP4			6-10d, 1 1/2"
< 1240	< 1065	SPH4			10-10d, 1 1/2"
< 885	< 760	SP6			6-10d, 1 1/2"
< 1240	< 1065	SPH6			10-10d, 1 1/2"
< 1235	< 1165	LSTA18	14-10d		
< 1235	< 1235	LSTA21	16-10d		
< 1030	< 1030	CS20	18-8d		
< 1705	< 1705	CS16	28-8d		
		STUD ANCHORS*	**TO STUDS**		**TO FOUNDATION**
< 1350	< 1305	LTT19	8-16d		1/2" AB
< 2310	< 2310	LTT31	18-10d, 1 1/2"		1/2" AB
< 2776	< 2570	HD2A	2-5/8" BOLTS		5/8" AB
< 4175	< 3695	HTT16	18 - 16d		5/8" AB
< 1400	< 1400	PAHD42	16-16d		
< 3335	< 3335	HPAHD22	16-16d		
< 2200	< 2200	ABU44	12-16d		1/2" AB
< 2300	< 2300	ABU66	12-16d		1/2" AB
< 2320	< 2320	ABU88	18 - 16d		2-5/8" AB

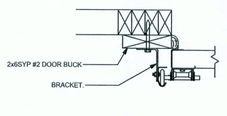
GRADE & SPECIES TABLE

		Fb (psi)	E (10^6 psi)
2x8	SYP #2	1200	1.6
2x10	SYP #2	1050	1.6
2x12	SYP #2	975	1.6
GLB	24F-V3 SP	2400	1.8
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2900	2.0
PSL	PARALAM	2900	2.0

2x6 SYP #2 GARAGE DOOR BUCK ATTACHMENT

ATTACH GARAGE DOOR BUCK TO STUD PACK AT EACH SIDE OF DOOR OPENING WITH 3/8"x4" LAG SCREWS w/ 1" WASHER LAG SCREWS MAY BE COUNTERSUNK, HORIZONTAL JAMBS DO NOT TRANSFER LOAD. CENTER LAG SCREWS OR STAGGER 16d NAILS OR (2) ROWS OF .131 x 3 1/4" GN PER TABLE BELOW:

DOOR WIDTH	3/8" x 4" LAG	16d STAGGER	(2) ROWS OF .131 x 3 1/4" GN
8' - 10'	24" O.C.	5" O.C.	5" O.C.
11' - 15'	18" O.C.	4" O.C.	4" O.C.
16' - 18'	16" O.C.	3" O.C.	3" O.C.



GARAGE DOOR BUCK INSTALLATION DETAIL

SCALE: N.T.S.

GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR 2004. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN UPLIFT CONNECTION 415LB EACH END; 2X8 RAFTERS 700 LB EACH END.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN

FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1000 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F'c = 3000 PSI.

WELDED WIRE REINFORCED SLAB: 6" x 6" W1.4 x W1.4, FB = 85KSI. WELDED WIRE REINFORCEMENT FABRIC (W.W.M.) CONFORMING TO ASTM A185; LOCATED IN MIDDLE OF THE SLAB; SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH 1/2 INCH TO 2 INCHES. DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1116. SUPPLIER TO PROVIDE ASTM C 1116 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1.5 AND TYPICAL SPACING OF CUTS TO BE 12FT. DO NOT CUT WWM OR REINFORCING STEEL. (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR'S APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A 615, GRADE 60, DEFORMED BARS, FY = 60 KSI. ALL LAP SPLICES 40 " DIB (25" FOR #5 BARS); UNO. ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315-96, U.N.O.

GLULAM BEAMS: GLULAM BEAM, GLB, 24F-V3SP, Fb = 2.4ksi, E = 1800ksi; UNO. SUPPLIER MAY SUPPLY AN ALTERNATE BEAM WITH EQUAL PROPERTIES OR MAY SUBMIT THEIR OWN SIZING CALCS.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL DIAPHRAGMS; 7/16" OSB SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED, FASTENED WITH 8d COMMON NAILS (131), 6"OC PANEL EDGES, 12"OC INTERMEDIATE MEMBERS, GABLE ENDS AND DIAPHRAGM BOUNDARY; 4"OC, UNO.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 15" IN GROUTED CMU.

WASHERS: WASHERS USED WITH 1/2" BOLTS TO BE 2" x 2" x 9/64", WITH 5/8" BOLTS TO BE 3" x 3" x 9/64"; WITH 3/4" BOLTS TO BE 3" x 3" x 9/64", WITH 7/8" BOLTS TO BE 3" x 3" x 5/16", UNO.

NAILS: ALL NAILS ARE COMMON NAILS UNLESS OTHERWISE SPECIFIED OR ACCEPTED BY FBC TEST REPORTS AS HAVING EQUAL STRUCTURAL VALUES.

BUILDER'S RESPONSIBILITY

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.

CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.

PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR 2004 REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMITS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.

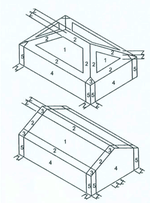
VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

ROOF SYSTEM DESIGN

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR 2004, SECTION R301.2.1 IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBC 2001 REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.

DESIGN DATA

WIND LOADS PER FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTION R301.2.1
(ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED, OR GABLE ROOFS; MEAN ROOF HEIGHT NOT EXCEEDING LEAST HORIZONTAL DIMENSION OR 60 FT; NOT ON UPPER HALF OF HILL OR ESCARPMENT 60FT IN EXP. B, 30FT IN EXP. C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)
BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE
BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION
1.) BASIC WIND SPEED = 110 MPH
2.) WIND EXPOSURE = B
3.) WIND IMPORTANCE FACTOR = 1.0
4.) BUILDING CATEGORY = II
5.) ROOF ANGLE = 10-45 DEGREES
6.) MEAN ROOF HEIGHT = <30 FT
7.) INTERNAL PRESSURE COEFFICIENT = N/A (ENCLOSED BUILDING)
8.) COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TABLE R301.2(2))



Zone	Effective Wind Area (ft2)			
	10		100	
1	19.9	-21.8	18.1	-18.1
2	19.9	-25.5	18.1	-21.8
2 O'hg		-40.3		-40.6
3	19.9	-25.3	18.1	-21.8
3 O'hg		-68.3		-42.4
4	21.8	-23.3	18.5	-20.4
5	21.8	-29.1	18.5	-22.6
Doors & Windows Worst Case (Zone 5, 10 ft2)	21.8	-29.1		
8x7 Garage Door	19.5	-22.9		
16x7 Garage Door	18.5	-21.0		

DESIGN LOADS	
FLOOR	40 PSF (ALL OTHER DWELLING ROOMS)
	30 PSF (SLEEPING ROOMS)
	30 PSF (ATTICS WITH STORAGE)
	10 PSF (ATTICS WITHOUT STORAGE, <3:12)
ROOF	20 PSF (FLAT OR <4:12)
	16 PSF (4:12 TO <12:12)
	12 PSF (12:12 AND GREATER)
STAIRS	40 PSF (ONE & TWO FAMILY DWELLINGS)
SOIL BEARING CAPACITY 1000PSF	
NOT IN FLOOD ZONE (BUILDER TO VERIFY)	

REVISIONS

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

WINDLOAD ENGINEER: Mark Disosway, PE No.53915, POB 868, Lake City, FL 32056, 386-754-5419

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

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 2004, to the best of my knowledge.

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

MARK DISOSWAY P.E. 53915

SEAL

Glenwood King Construction

Kevin Gray Residence

ADDRESS: Columbia County, Florida

Mark Disosway P.E.
P.O. Box 868
Lake City, Florida 32056
Phone: (386) 754 - 5419
Fax: (386) 269 - 4871

PRINTED DATE: August 09, 2006

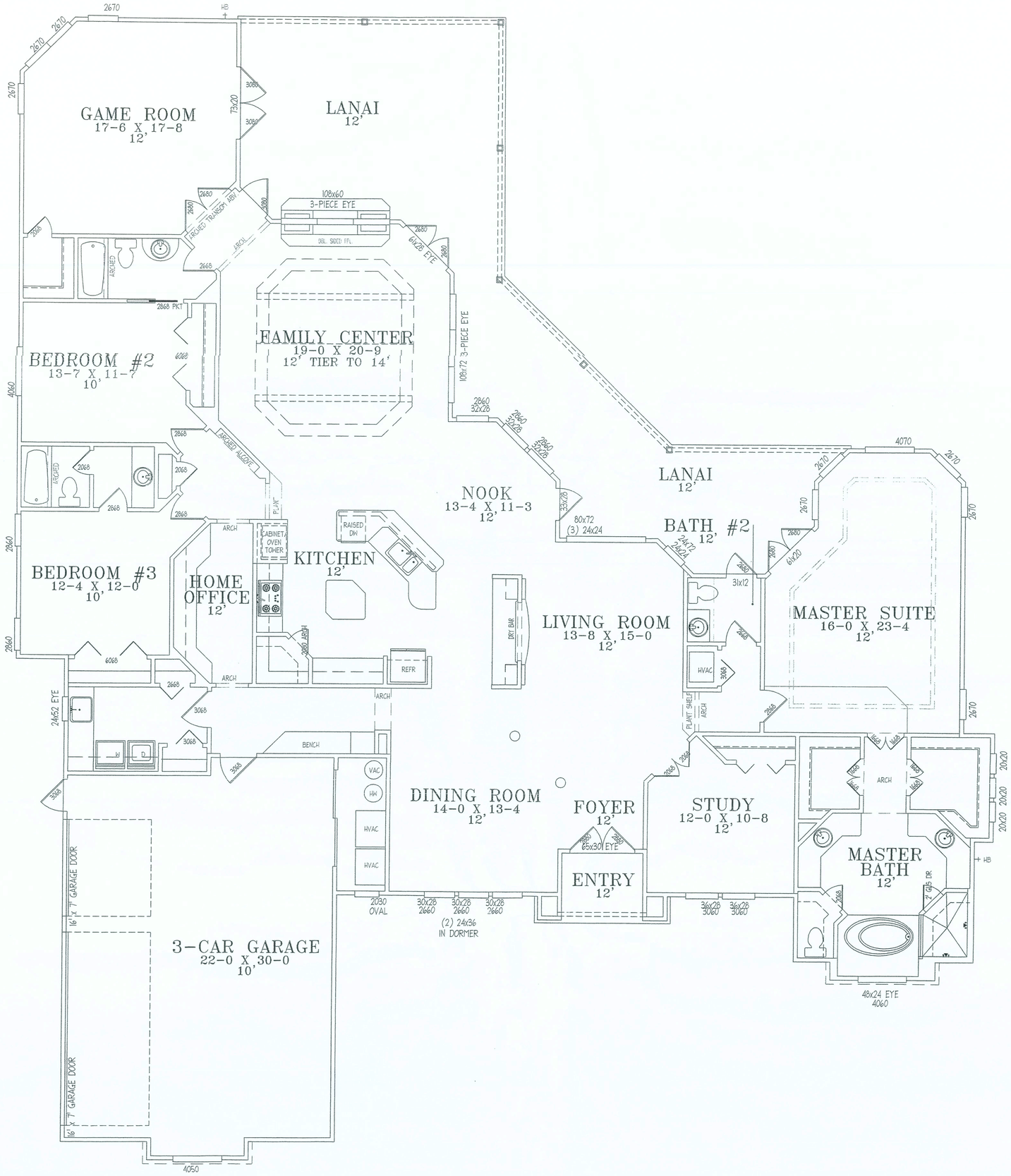
DRAWN BY: | STRUCTURAL BY: David Disosway

FINALS DATE: 08 / Aug / 06

JOB NUMBER: 608087

DRAWING NUMBER **S-1**

OF 3 SHEETS



5 OF 7

DATE

SUPERINTENDENT

CLIENTS

CLIENTS

C. SHANNON

M. SHANNON

PROPOSED RESIDENCE FOR

MR. & MRS. GRAY

SHANNON HOMES
3921 NW 87th Blvd. • Gainesville, Florida 32606
(352) 331-8891 • FAX (352) 331-4833

GREY RESIDENCE	
MAIN LIVING	3407 SF
LANAI	727 SF
ENTRY	51 SF
GARAGE	745 SF
TOTAL	4930 SF

DATE:	7 / 5 / 06
JOB #:	CO-430
SCALE:	1/4" = 1'-0"
DRAWING:	430-RM DESC
DRAWN BY:	CAD
APPROVED BY:	CS