

AUSTIN - 4M

FLORIDA DESIGN CRITERIA

REVISED 05-03-07

BUILDING DATA

FLORIDA BUILDING CODE 2004 : RESIDENTIAL, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : PLUMBING, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : MECHANICAL, 2005 and 2006 SUPPLEMENT
FLORIDA BUILDING CODE 2004 : FUEL GAS, 2005 and 2006 SUPPLEMENT

NATIONAL ELECTRICAL CODE 2005

STRUCTURAL DESIGN PARAMETERS: ASCE 7-2002 (PER FRC 2004 : SECTION R301.2.1.1)

CLASSIFICATION : 2

OCCUPANCY: RESIDENTIAL

BUILDING DESIGN: ENCLOSED

WIND SPEED: 125 MPH - 3 SECOND GUST (FRC 2004 : SECTION R301.2.1.3)

EXPOSURE: B

INTERNAL PRESSURE COEFFICIENT: GCpl = +/- 0.18

IMPORTANCE FACTOR: 1.0

NUMBER OF STORIES: ONE STORY

BUILDING MEAN ROOF HEIGHT: 15 FEET, MAX.

WOOD FRAMING INSPECTION

ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTION. (FRC 2004, SECTION R109.3)

TERMITE TREATMENT

THE BUILDING AND PATIO SLAB HAVE RECIEVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. (FRC 2004, SECTION R320)

BORA CARE : TERMITE TREATMENT

THE BUILDING HAS RECIEVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. (FRC 2004, SECTION R320.1.8)

EXTERIOR WINDOWS AND GLASS DOORS

EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND SHALL BE LABELED WITH AN APPROVED LABEL (FRC 2004, SECTION R61.3)

SEE MANUFACTURER'S DETAIL SHEETS FOR DESIGN CRITERIA AND INSTALLATION METHODS.

WINDBOURNE DEBRIS REGIONS

WINDOWS IN BUILDINGS LOCATED IN WIND-BOURNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WIND-BOURNE DEBRIS. GLAZED OPENING PROTECTION FOR WIND-BORNE DEBRIS SHALL MEET THE REQUIREMENTS OF THE LARGE MISSILE TEST OF ASTM E 1996 AND OF ASTM E 1886, SST'D 12, ANSI/DASMA 115 (FOR GARAGE DOORS) OR TAS201, 202 AND 203. (FRC 2004, SECTION R301.2.1.2)

INDEX OF DRAWINGS

SHEET NO.	TITLE
ARCH - ARCHITECTURALS	
0	COVER SHEET
1	EXTERIOR ELEVATIONS
2	FOUNDATION PLAN
3	FLOOR PLAN
WL	WINDOW & LINTEL SCHEDULE
3A	INTERIOR ELEVATIONS AND DETAILS
CSU	BUILDING SECTION (AS REQ'D)
RSI	ROOF SHEATHING
MIPS - ROOF	TRUSS ENGINEERING
TRI	ROOF TRUSS INFO
MECH - ELECTRICAL	
ELI	ELECTRICAL FIRST FLOOR
ELA	ELECTRICAL DETAILS / LOAD CALCS
MECH - HVAC	
HVA	HVAC REGISTER LAYOUT
ISO-H	HVAC ISOMETRIC
MECH - PLUMBING	
FPI	PLUMBING UNDERGROUND PLAN
ISO-P	DWV / PLUMBING ISOMETRIC
ISO-W	CYPIC WATER ISOMETRIC
ARCH - STANDARD DETAILS	
FTG	STANDARD DETAILS - FOOTINGS
WS-BI	STANDARD DETAILS - WALL SECTION
SDI	STANDARD DETAILS
SDD	STANDARD DETAILS - DOORS
SDW	STANDARD DETAILS - WINDOWS
SDH	STANDARD DETAILS - HEATING

REVISIONS :

11-10-06 RELEASE FOR PRODUCTION

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Maronda Homes

FLORIDA (407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

JAX 9TM
9-1

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004, RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH, 3 SECOND GUST WIND SPEED. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

PA\T\Drawings_05\Austin\A125\Austin-125.000

AMERICANA COVER SHEET

AUSTIN 4

ELEVATION "M"

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 04-04-06 125 MPH

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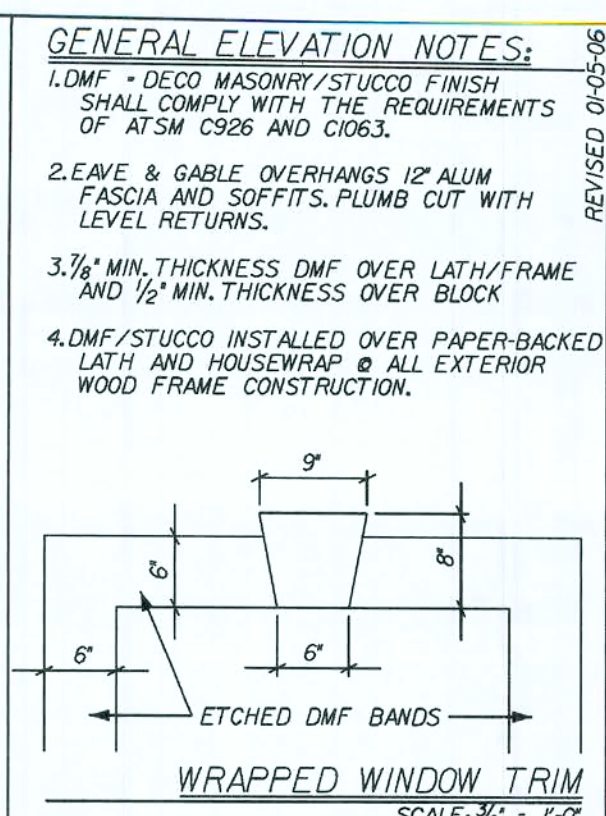
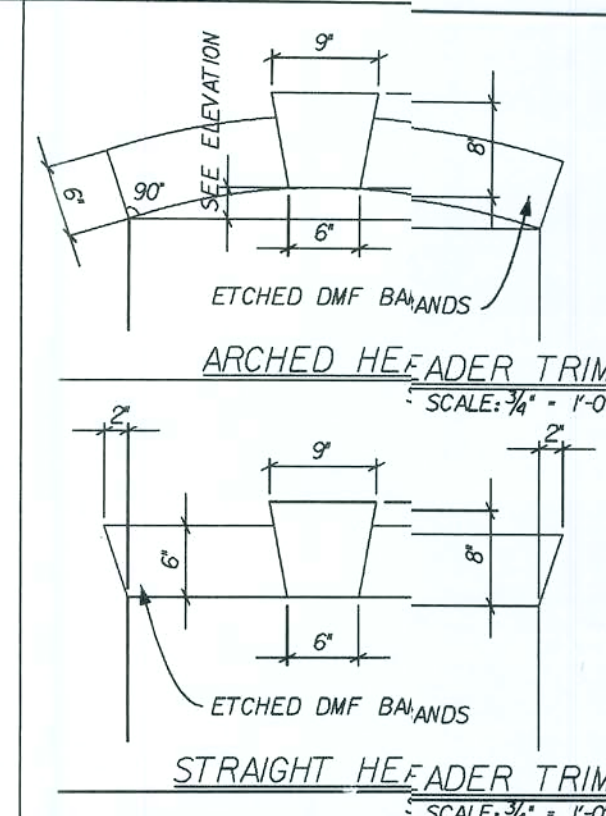
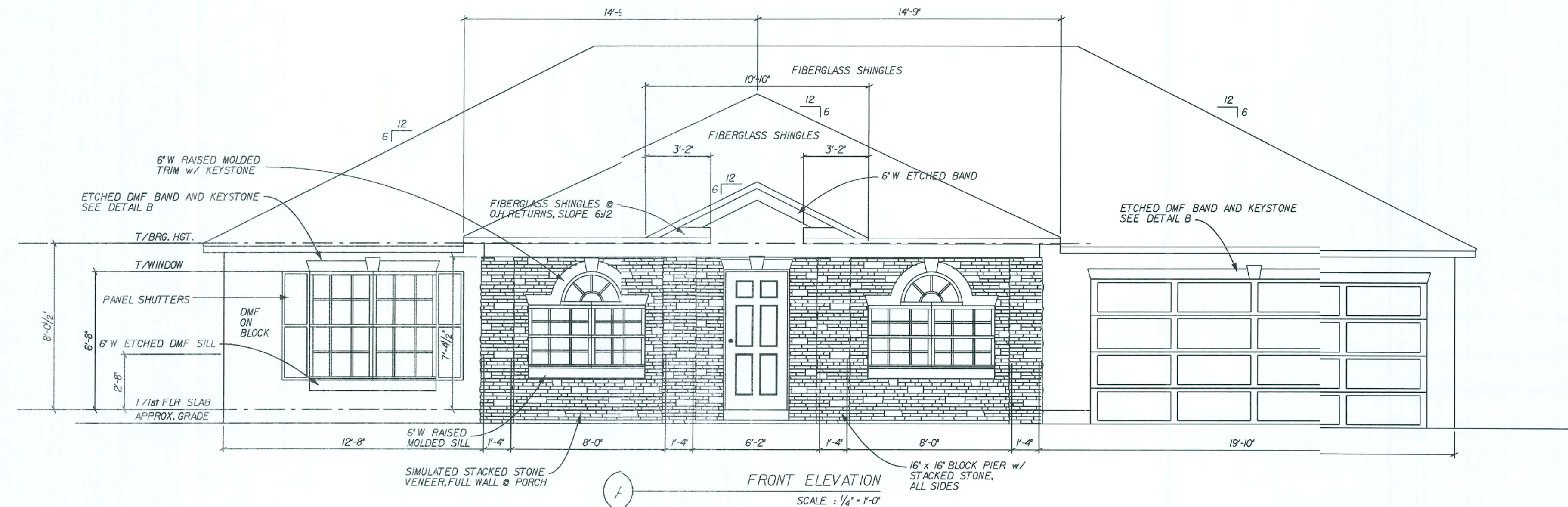
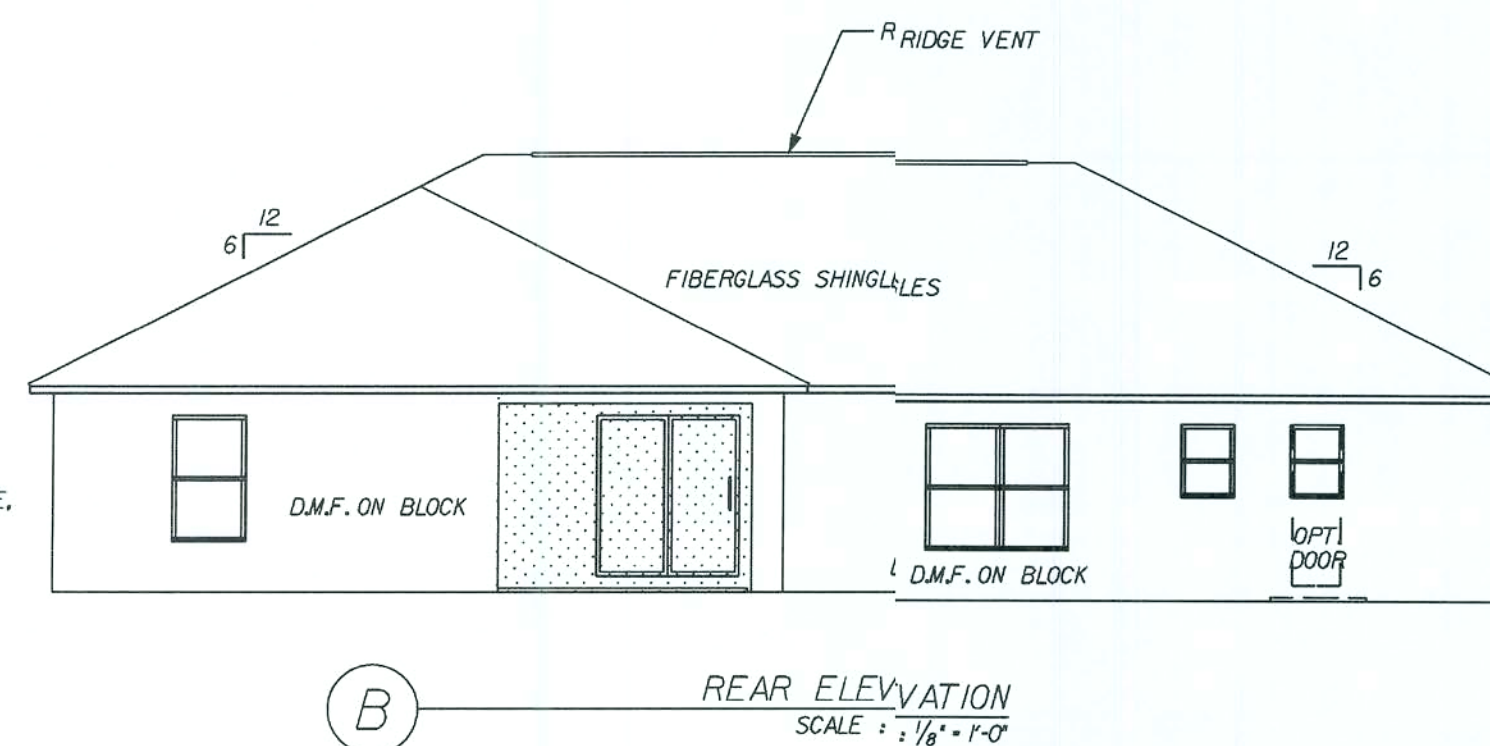
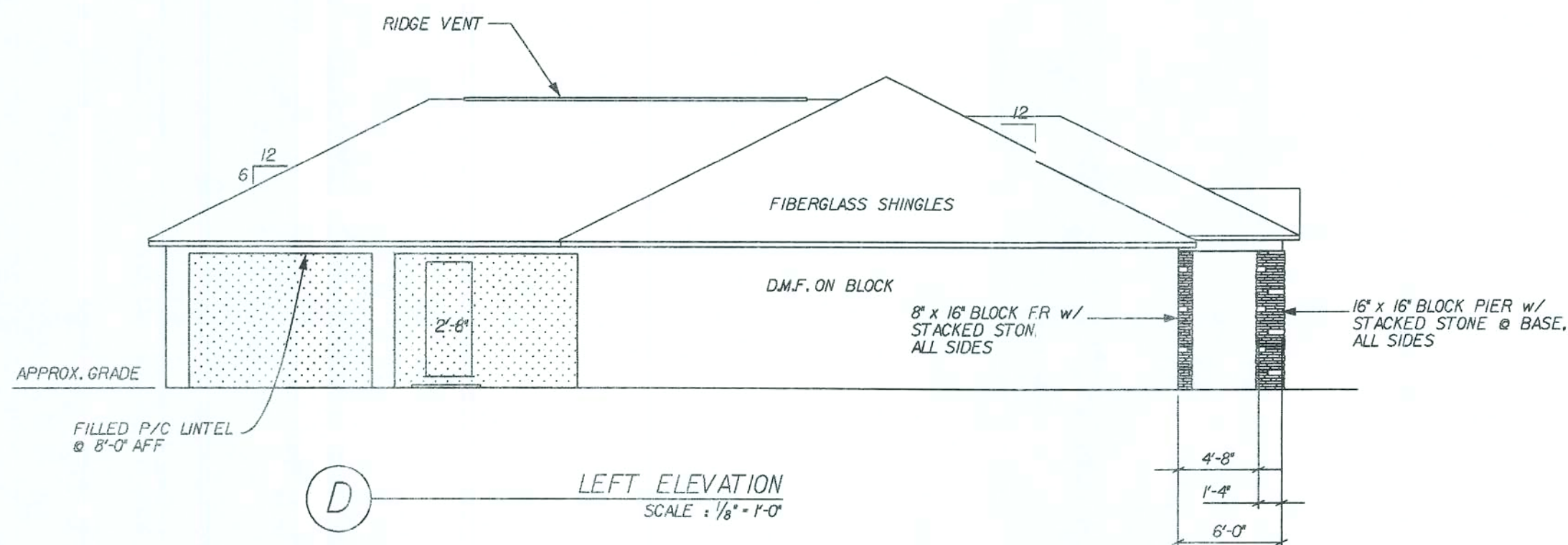
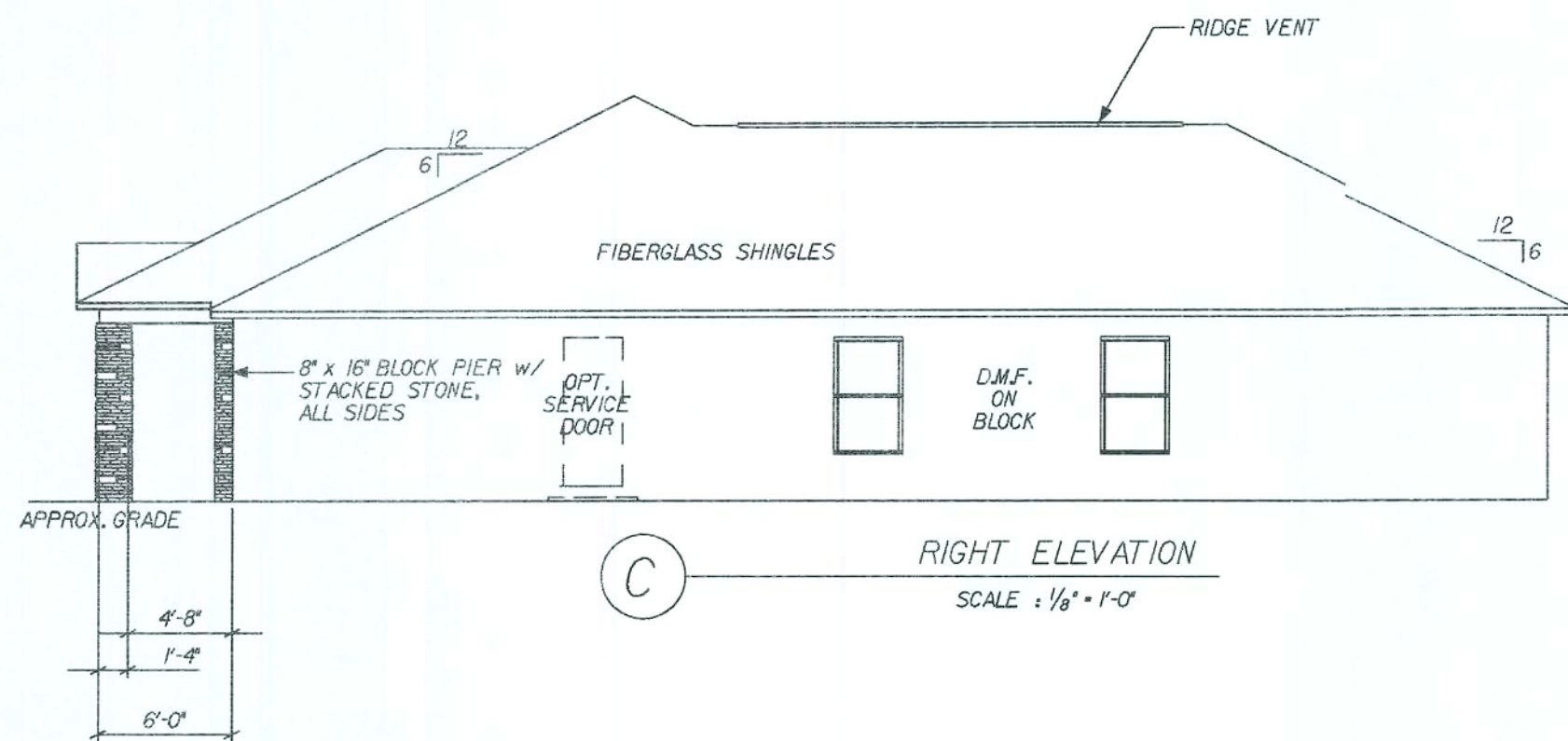
Elmer Bergman, P.E.
Elmer Bergman, P.E.
License No. 50158

MAY 15 2008

SHEET:

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PLOT DATE: 07 APR 2008

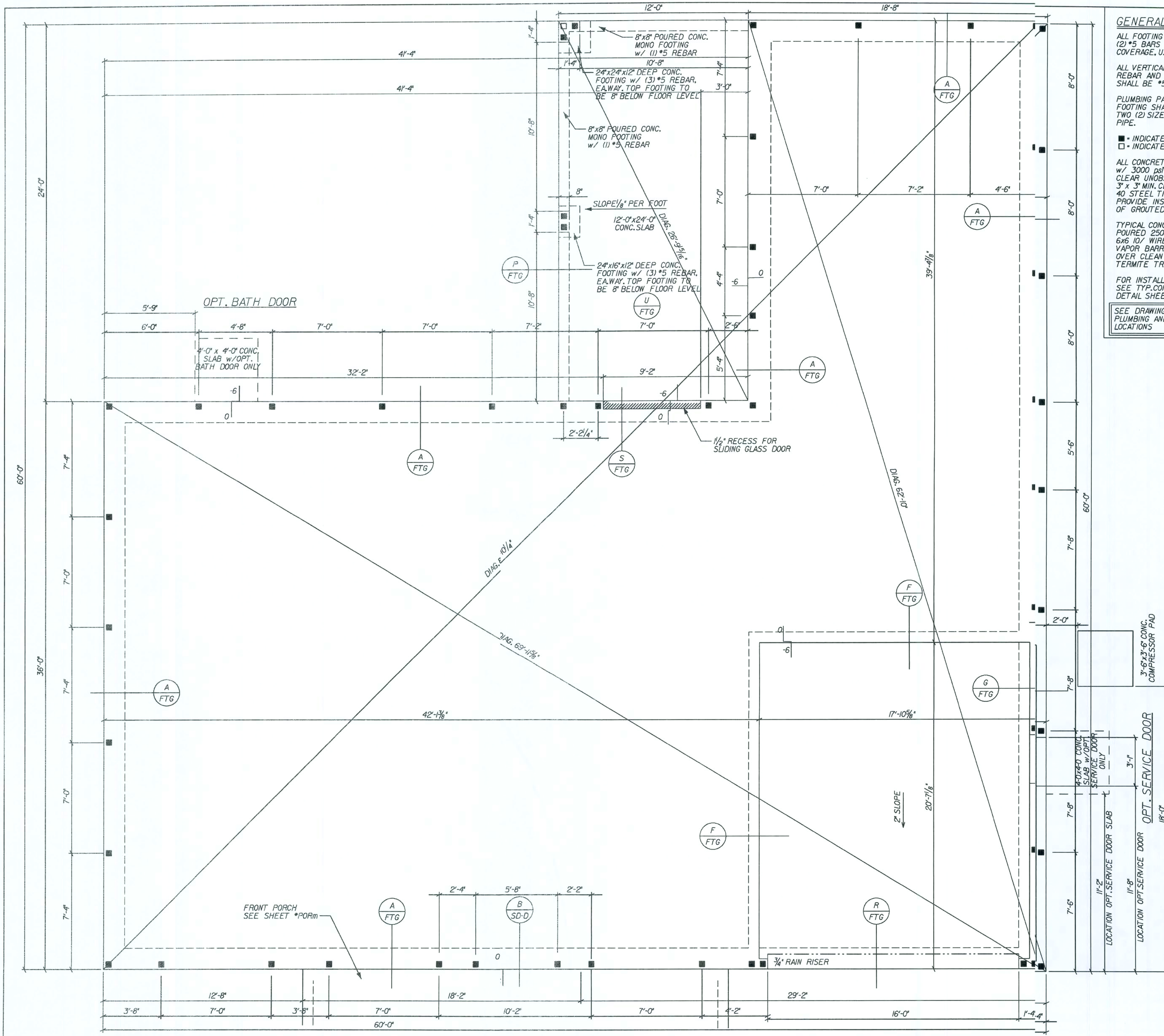


GENERAL ELEVATION NOTES:

- DMF - DECO MASONRY/STUCCO FINISH SHALL COMPLY WITH THE REQUIREMENTS OF ATSM C926 AND C1063.
- EAVE & GABLE OVERHANGS 12" ALUM FASCIA AND SOFFITS. PLUMB CUT WITH LEVEL RETURNS.
- 3/8" MIN. THICKNESS DMF OVER LATH/FRAME AND 1/2" MIN. THICKNESS OVER BLOCK.
- DMF/STUCCO INSTALLED OVER PAPER-BACKED LATH AND HOUSEWRAP @ ALL EXTERIOR WOOD FRAME CONSTRUCTION.

Maronda Homes 4005 MARONDA WAY SANFORD, FLORIDA (407) 321-0064		REVISIONS: 12-14-06 ADD GLASS TO PORCH DOOR 11-01-07 REV. RAISED MOLDED TRIM NOTE
AMERICANA EXT. ELEVATIONS AUSTIN 4 ELEVATION "M" DRAWN BY: GARAGE: RIGHT RELEASE DATE: 04-04-06	Maronda Systems 4005 Maronda Way Sanford, FL 32771 (407) 321-0064 Elmer Bergman, P.E. License No. 50158 MAY 15 2008	SHEET: 1m

FLORIDA BUILDING CODE 2004: RESIDENTIAL



GENERAL FOUNDATION NOTES:

ALL FOOTING REBAR SHALL BE CONTINUOUS (2) *5 BARS GRADE 40 STEEL W/ 3" MIN. COVERAGE, U.N.D.

ALL VERTICAL REBAR, DOWN REBAR, DOWEL REBAR AND BOND BEAM REINFORCEMENT SHALL BE *5 BARS GRADE 40 STEEL

PLUMBING PASSING UNDER OR THROUGH A FOOTING SHALL BE ENCASED IN A PIPE TWO (2) SIZES LARGER THAN THE PLUMBING PIPE.

■ INDICATES FILLED CELL WITH REBAR
□ INDICATES FILLED CELL WITHOUT REBAR

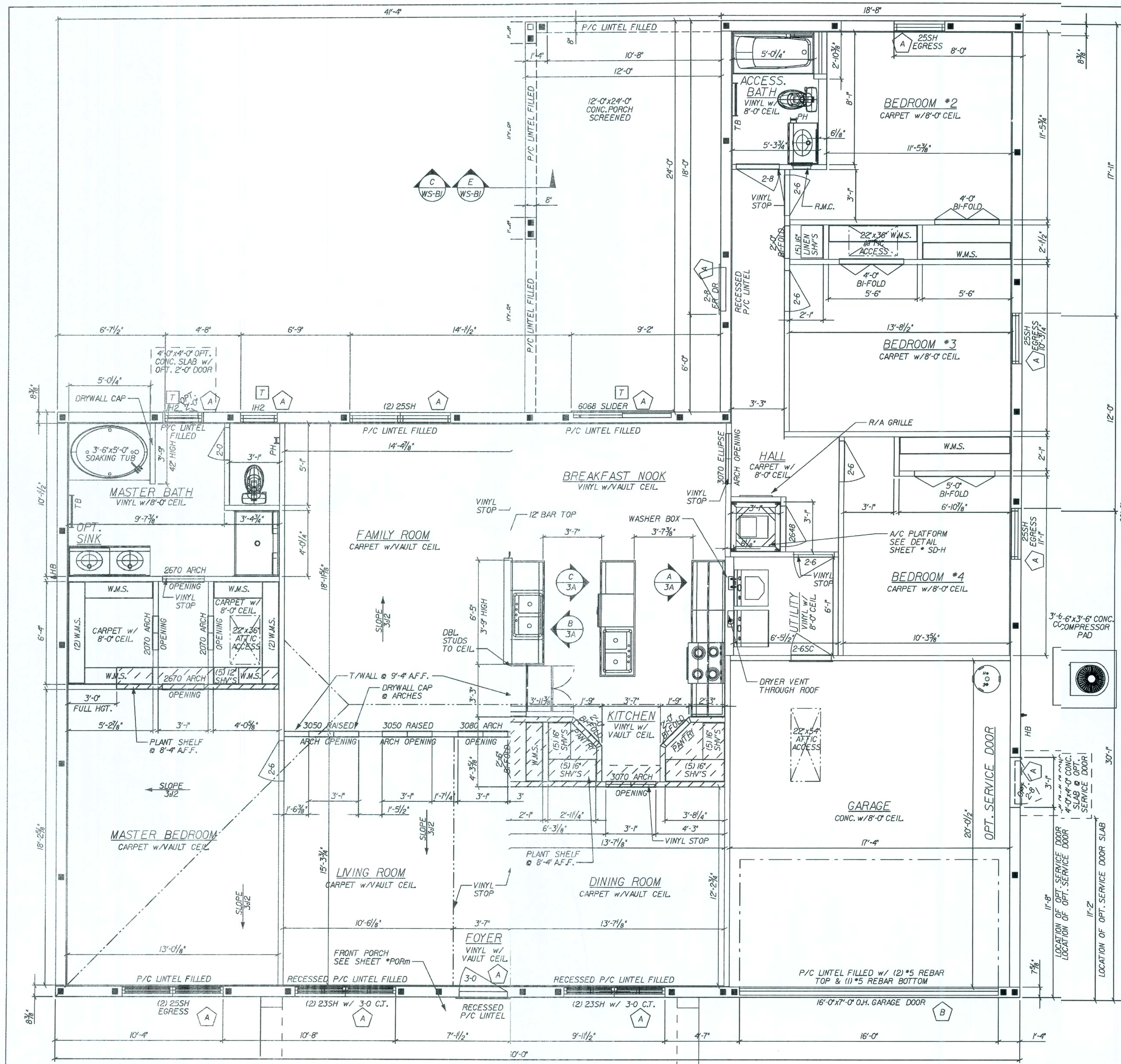
ALL CONCRETE GROUTED CELLS FILLED W/ 3000 PSI CONCRETE SHALL BE CLEAR UNOBSTRUCTED CONTINUOUS 3" x 3" MIN. CELLS W/ (1) *5 BAR GRADE 40 STEEL TIED AT FOOTING UNTEL STEEL PROVIDE INSPECTION HOLE AT BOTTOM OF GROUTED CELL STACK.

TYPICAL CONCRETE SLAB: 3 1/2" DEEP POURED 2500 PSI CONCRETE SLAB W/ 6x6 10' WIRE OR FIBER MESH ON VISQUEEN VAPOR BARRIER W/ ALL JOINTS TAPED OVER CLEAN COMPACTED (2000 PSI, MIN.) TERMITE TREATED FILL

FOR INSTALLATION OF GROUND ROD, SEE TYP. CONC. ENCASED ELECTRODE DETAIL SHEET * FTG

SEE DRAWING * FPI FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

AMERICANA FOUNDATION PLAN		AUSTIN 4		ELEVATION "M"	
FOUNDATION PLAN		RIGHT		125 MPH	
REVISIONS:		04-24-06 REVISED NOTE AT GARAGE DOOR		06-20-06 ADDED DOOR PAN DETAIL MARKER	
04-24-06 REVISED NOTE AT GARAGE DOOR		06-20-06 ADDED DOOR PAN DETAIL MARKER		06-14-07 REV. CODE INFORMATION	
Maronda Homes		FLORIDA		4005 MARONDA WAY SANFORD, FL 32771	
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL AND 2005 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. W/LEAKAGE B. ENCLOSED BUILDING. TO WITHSTAND ALL APPLICABLE LOADS.		125 MPH		04-04-06	
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SHEET:		2m		FLORIDA BUILDING CODE 2004 : RESIDENTIAL	



GENERAL FIRST FLOOR NOTES:

ALL EXTERIOR WALLS SHALL BE CONSIDERED SHEAR WALLS MINUS ALL WINDOW AND DOOR OPENINGS.

EXTERIOR WALLS TO BE 7 1/2" CONCRETE BLOCK w/ P.T. FURRING STRIPS IN A/C AREA, TOTAL WIDTH - 8 3/8"

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF MASONRY OPENING.

INTERIOR LOAD BEARING WALLS TO BE 2x4 WOOD FRAME WALLS w/ STUDS @ 16" O.C. SEE STRUCTURAL WALL SCHEDULE SHEET * TRI

INTERIOR NON-LOAD BEARING WALLS TO BE NOMINAL 3 3/8" MTL STUD, 25 ga., U.N.O.

ALL WOOD NOT SEPERATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE "PRESSURE TREATED WOOD"

SEE UNTEL SHEET FOR UNTEL SIZES OVER WINDOWS AND DOORS. PRECAST UNTELS BY CAST-CRETE.

ALL COMPOSITE BEAMS OVER WINDOW AND DOOR OPENINGS ARE TO BE 8" NOMINAL WIDTH AND 16" NOMINAL HEIGHT, U.N.O. THE 16" NOMINAL HEIGHT SHALL CONSIST OF AN 8" TOP COURSE (BOND BEAM BLOCK) FILLED w/ 3000 psi CONCRETE w/ (1) GRADE 40 CONTINUOUS HORIZ * 5 REBAR AND AN 8" HIGH STRENGTH PRECAST UNTEL LOWER COURSE WHICH SHALL BE UNFILLED, U.N.O. FOR FILLED PRECAST UNTELS, USE 3000 psi CONCRETE w/ 3/8" AGGREGATE, FOR REINFORCED PRECAST UNTELS, USE GRADE 40 REINFORCING STEEL.

PROVIDE SAFETY GLAZING AT: T - TEMPERED ALL WINDOWS OVER BATH TUBS. ALL WINDOWS WITHIN 24" OF A DOOR SWING. ALL SLIDING GLASS DOORS. ALL FIXED GLASS LITES OVER 30 SQ. FT. ALL LITES WITHIN 18" OF THE FLOOR AND INDIVIDUAL PANE GREATER THAN 9 SQ. FT. ALL SHOWER ENCLOSURES.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210-12.

THE A/C DISCONNECT WILL BE LOCATED WITHIN 3 FEET OF THE COMPRESSOR.

SEE SHEET * WU FOR WINDOW AND UNTEL SCHEDULES AND DETAILS

PROVIDE HEADER w/ (1) 2x4 JACK AND (1) 2x4 STUD, EACH SIDE OF OPENING (NO STRAPPING REQUIRED, U.N.O.) HOR TO BE NO. 2 SYP SEE PLAN FOR SIZE

ALL DRYWALL TO BE 1/2" THICK, U.N.O.

SC DOOR - MIN. 1 3/8" THICK SOLID CORE DOOR

SQUARE FOOTAGE:

1st FLOOR LIVING	2236 SQ. FT.
COVERED PORCH	288 SQ. FT.
GARAGE AREA	372 SQ. FT.
COVERED ENTRY	165 SQ. FT.
TOTAL AREA	3061 SQ. FT.

OPENING PRESSURES 125mph:

A	B	E
+28.1 / -30.5	+23.7 / -27.6	+24.2 / -27.1
C	D	
+28.1 / -37.6	+24.9 / -29.7	

ALL SWING DOORS IN BLOCK USE 2x DOOR BUCK DETAIL D/SD-D

REVISIONS: 10-10-07
12-14-06 REV. SERVICE DOOR SWING

AMERICANA FIRST FLOOR PLAN

AUSTIN 4

ELEVATION "M"

RIGHT

125 MPH

REVISIONS: 08-14-07 REV. CODE INFORMATION

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THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 6309 OF THE FLORIDA BUILDING CODE, 2008 SUPPLEMENT FOR 125 MPH, 3 SEC. GUST, MID-EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTIONS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

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GENERAL FOUNDATION NOTES:

ALL FOOTING REBAR SHALL BE CONTINUOUS (2)*5 BARS GRADE 40 STEEL W/ 3' MIN. COVERAGE, U.N.O.

ALL VERTICAL REBAR, DOWN REBAR, DOWEL REBAR AND BOND BEAM REINFORCEMENT SHALL BE #5 BARS GRADE 40 STEEL

PLUMBING PASSING UNDER OR THROUGH A FOOTING SHALL BE ENCASED IN A PIPE TWO (2) SIZES LARGER THAN THE PLUMBING PIPE.

■ - INDICATES FILLED CELL WITH REBAR
□ - INDICATES FILLED CELL WITHOUT REBAR

ALL CONCRETE GROUTED CELLS FILLED W/ 3000 PSI CONCRETE SHALL BE CLEAR UNOBSTRUCTED CONTINUOUS 3' x 3' MIN. CELLS W/ (1)*5 BAR GRADE 40 STEEL TIED AT FOOTING UNTEL STEEL. PROVIDE INSPECTION HOLE AT BOTTOM OF GROUTED CELL STACK.

TYPICAL CONCRETE SLAB: 3 1/2" DEEP POURED 2500 PSI CONCRETE SLAB W/ 6x6 10' WIRE OR FIBER MESH ON VISQUEEN VAPOR BARRIER W/ ALL JOINTS TAPED OVER CLEAN COMPACTED (2000 PSI, MIN.) TERMITE TREATED FILL.

FOR INSTALLATION OF GROUND ROD, SEE TYP. CONC. ENCASED ELECTRODE DETAIL SHEET * FTG

SEE DRAWING * FPI FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

GENERAL FIRST FLOOR NOTES:

ALL EXTERIOR WALLS SHALL BE CONSIDERED SHEAR WALLS MINUS ALL WINDOW AND DOOR OPENINGS.

EXTERIOR WALLS TO BE 7 1/2" CONCRETE BLOCK W/ P.T. FURRING STRIPS IN A/C AREA, TOTAL WIDTH - 8 3/4"

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF MASONRY OPENING.

INTERIOR LOAD BEARING WALLS TO BE 2x4 WOOD FRAME WALLS W/ STUDS @ 16" O.C., SEE STRUCTURAL WALL SCHEDULE SHEET * TRI

INTERIOR NON-LOAD BEARING WALLS TO BE NOMINAL 3 1/2" MTL. STUD, 25 ga., U.N.O.

ALL WOOD NOT SEPERATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE "PRESSURE TREATED WOOD"

SEE UNTEL SHEET FOR UNTEL SIZES OVER WINDOWS AND DOORS. PRECAST UNTELS BY CAST-CRETE.

ALL COMPOSITE BEAMS OVER WINDOW AND DOOR OPENINGS ARE TO BE 8" NOMINAL WIDTH AND 16" NOMINAL HEIGHT, U.N.O. THE 16" NOMINAL HEIGHT SHALL CONSIST OF AN 8" TOP COURSE (BOND BEAM BLOCK) FILLED W/ 3000 PSI CONCRETE W/ (1) GRADE 40 CONTINUOUS HORZ. #5 REBAR AND AN 8" HIGH STRENGTH PRECAST UNTEL LOWER COURSE WHICH SHALL BE UNFILLED, U.N.O. FOR FILLED PRECAST UNTELS, USE 3000 PSI CONCRETE W/ 3/4" AGGREGATE. FOR REINFORCED PRECAST UNTELS, USE GRADE 40 REINFORCING STEEL.

PROVIDE SAFETY GLAZING AT: [T] - TEMPERED ALL WINDOWS OVER BATH TUBS. ALL WINDOWS WITHIN 24" OF A DOOR SWING. ALL SLIDING GLASS DOORS. ALL FIXED GLASS LITES OVER 30 SQ. FT. ALL LITES WITHIN 18" OF THE FLOOR AND INDIVIDUAL PANE GREATER THAN 9 SQ. FT. ALL SHOWER ENCLOSURES.

PROVIDE AFCIs (arc-fault circuit Interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210-12.

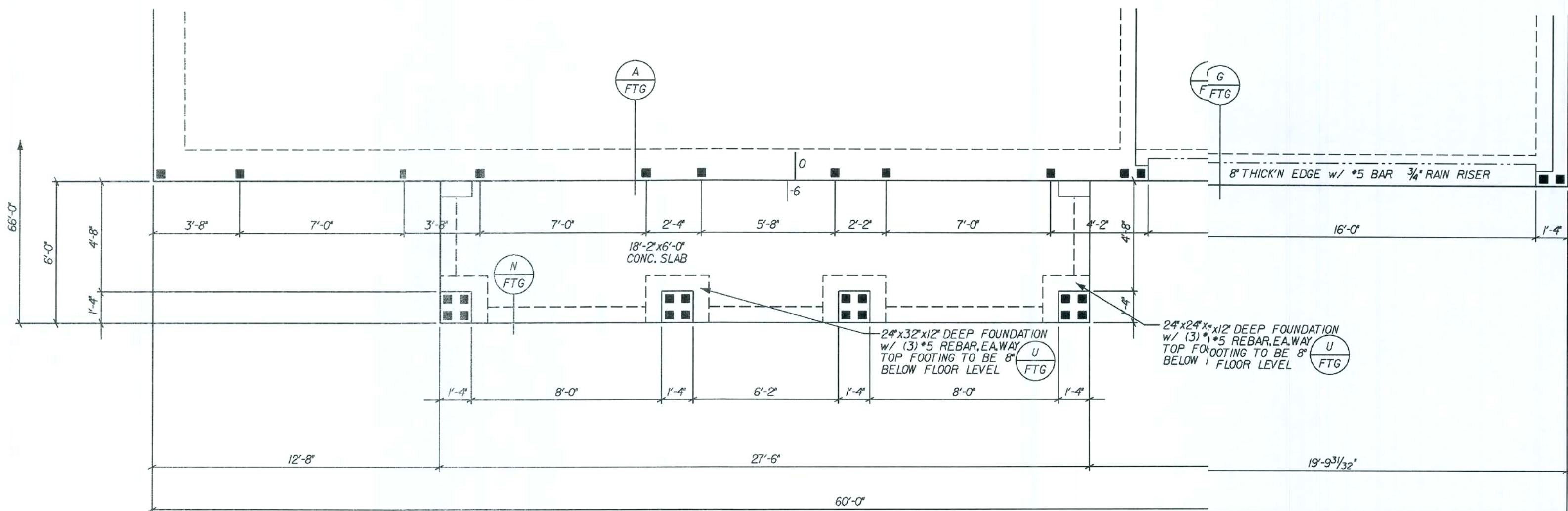
THE A/C DISCONNECT WILL BE LOCATED WITHIN 3 FEET OF THE COMPRESSOR.

SEE SHEET * WU FOR WINDOW AND UNTEL SCHEDULES AND DETAILS

PROVIDE HEADER W/ (1) 2x4 JACK AND (1) 2x4 STUD, EACH SIDE OF OPENING (NO STRAPPING REQUIRED, U.N.O.) HDR TO BE NO. 2 STP SEE PLAN FOR SIZE

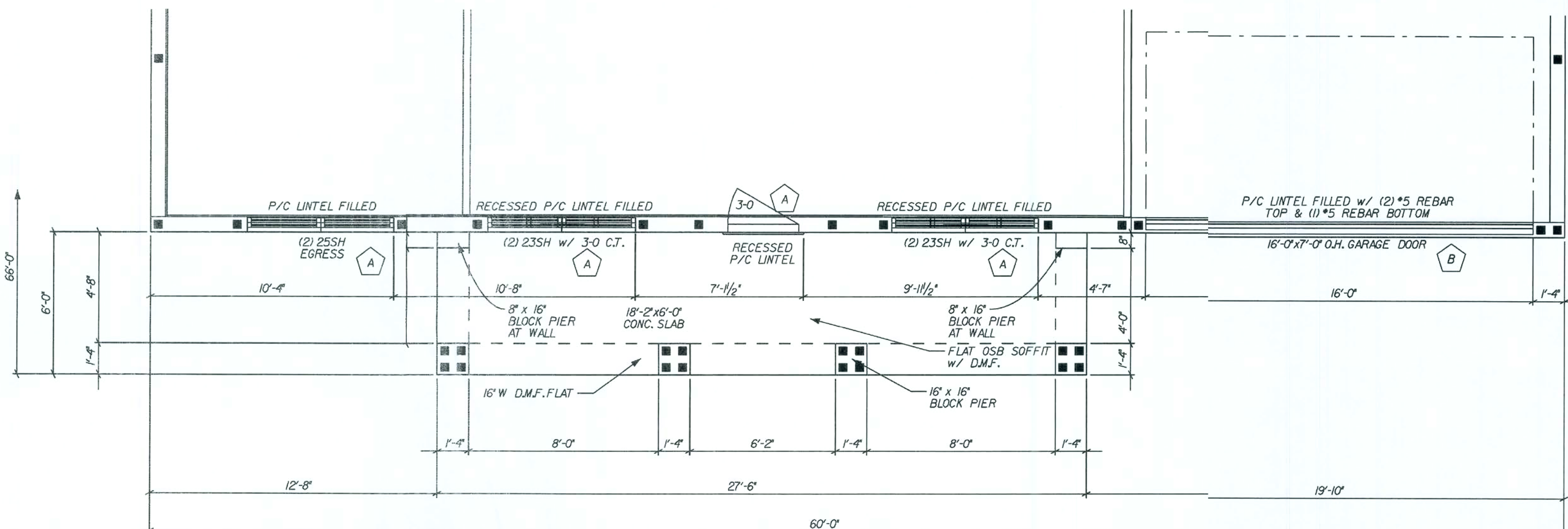
ALL DRYWALL TO BE 1/2" THICK, U.N.O.

SC DOOR - MIN. 1 3/8" THICK SOLID CORE DOOR



FOUNDATION PLAN

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



FLOOR PLAN

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

REVISIONS :



AMERICAN FRNT. PORCH DETAILS

AUSTIN 4

ELEVATION "M"

GARAGE: RIGHT

DRAWN BY:

RELEASE DATE: 04-04-06

125 MPH

10/5/28

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
MAY 15 2008

SHEET:

PORM

PLOT DATE: 07 APR 2008

08-14-07 REV. CODE INFORMATION

FASTENERS SCHEDULE USING $\frac{3}{16}$ " X $2\frac{1}{4}$ " TAPCONS THROUGH BUCK INTO BLOCK

NOTE 1) $\frac{1}{2}$ " WIDE: 2 FASTENERS IN HEADER-JAMB
NOTE 2) 2" WIDE: 2 FASTENERS IN HEADER-JAMB
NOTE 3) 3" WIDE: 3 FASTENERS IN HEADER-JAMB
NOTE 4) 2" HIGH: 2 FASTENERS IN EA. SIDE JAMB
NOTE 5) 3.40R 5 HIGH: 3 FAST. EA. SIDE JAMB

NOTE 6) 6 HIGH $26\frac{3}{4}$ " : 4 FASTENERS IN EACH SIDE JAMB
NOTE 7) 438 WINDOW INTO FRAME OPENING: $\frac{1}{10}$ X $1\frac{3}{4}$ " SCREWS
NOTE 8) SGD FASTENED WITH: $\frac{1}{10}$ X $1\frac{3}{4}$ " PANHEAD ALL HOLES SILLS $\frac{3}{16}$ " X $1\frac{3}{4}$ " ANCHORS EVERYHOLE

WINDOW NOTES

F.O. WIDTH IS FROM JACK TO SILL.
F.O. HEIGHT IS FROM SILL TO BEAM.
M.O. WIDTH IS FROM BLOCK TO BLOCK.
M.O. HEIGHT IS FROM LIP OF SILL TO PRECAST.
1st DIMENSION IS ALWAYS WIDTH.
UNIT OF MEASURE IS INCH.

ATTENTION

SCHEDULES FOR NORANDEX WINDOW FASTENERS AND CAST-CRETE LINTELS AS SHOWN, ARE TAKEN DIRECTLY FROM TABLES SUPPLIED BY THE RESPECTIVE MANUFACTURERS, AND ARE PROVIDED FOR CONVENIENCE ONLY.

NORANDEX SERIES (MO)437-(FO)438 WINDOW SIZE CHART

SERIES 500/502 SGD DOOR OPENINGS

SIZE	M.O.	FAST.	SIZE	M.O.	FAST.
6068	75 $\frac{1}{2}$ " X 81 $\frac{3}{4}$ "	8	6080	75 $\frac{1}{2}$ " X 97 $\frac{3}{4}$ "	8

SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.	DOUBLE M.O.	FAST.	SIZE	SINGLE F.O.	FAST.	DOUBLE F.O.	FAST.
25	37 $\frac{3}{4}$ " X 63"	2,5	74 $\frac{3}{4}$ " X 63"	2,5					
1H2	27 $\frac{1}{4}$ " X 26"	1,4							

HALF ROUND MULLED TO UNIT - SERIES (MO)437 - (FO)438 OPENINGS

SIZE	SINGLE M.O.	FAST.
(2) 23" W/ 3'-0" CT	74 $\frac{3}{4}$ " X 59 $\frac{3}{8}$ "	2,5,7

CAST-CRETE LINTEL SCHEDULE

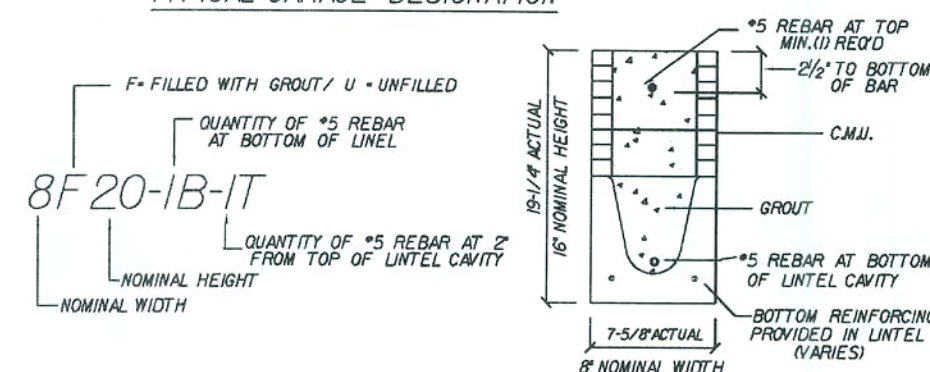
LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF)		SAFE LOADS		COMMENT
			GRAVITY	UPLIFT	GRAVITY	UPLIFT	
1	4'-6"	8RUI4-OB/IT	617	566	1494	2525	RECESSED
2	7'-6"	8RF14-OB/IT	617	566	2459	1462	RECESSED
3	7'-6"	8FI6-OB/IT	1005	577	2632	1634	
4	4'-6"	8FI6-OB/IT	617	566	2931	2724	-
5	4'-6"	8UI6-OB/IT	617	566	1559	2724	-
6	7'-6"	8FI6-OB/IT	617	566	2632	1634	-
7	7'-6"	8FI6-OB/IT	617	566	2632	1634	-
8	4'-6"	8RUI4-OB/IT	685	167	1494	2525	RECESSED
9	4'-6"	8UI6-OB/IT	209	283	1559	2724	-
10	4'-6"	8UI6-OB/IT	288	378	1559	2724	-
11	4'-6"	8UI6-OB/IT	209	283	1559	2724	-
12	17'-4"	8F20-IB/2T	620	580	1326	732	GARAGE DOOR
13	7'-6"	8RF14-OB/IT	617	566	2459	1462	RECESSED
S1	4'-6"	8UI6-OB/IT	209	283	1599	2724	OPT. GARAGE SERVICE DR.
B1	4'-6"	8RUI4-OB/IT	617	566	1494	2525	OPT. BATH DOOR
P1	12'-0"	8F8-OB/IT	168	261	540	470	OPT. PORCH
P2	12'-0"	8F8-OB/IT	168	261	540	470	OPT. PORCH
P3	12'-0"	8F8-OB/IT	105	283	540	470	OPT. PORCH
P4	6'-0"	8F8-OB/IT			540	470	FRT. PORCH
P5	10'-0"	8F8-OB/IT			540	470	FRT. PORCH
P6	7'-6"	8F8-OB/IT			540	470	FRT. PORCH
P7	10'-0"	8F8-OB/IT			540	470	FRT. PORCH
P8	6'-0"	8F8-OB/IT			540	470	FRT. PORCH

THE SPECIFIED LINTELS ON SHEET WL1 ARE MANUFACTURED BY CAST-CRETE CORP. ALTERNATE MANUFACTURED LINTELS ARE AVAILABLE "BY OTHERS". SOLE AND FULL RESPONSIBILITY IS RETAINED BY THE SUB-CONTRACTOR IN THE SELECTION OF THE ALTERNATE LINTELS AS HAVING EQUAL TO OR GREATER THAN THE ACTUAL GRAVITY AND UPLIFT LOADS, THAT ARE LISTED ON THIS HOUSE SPECIFIC WL1 LINTEL SCHEDULE.

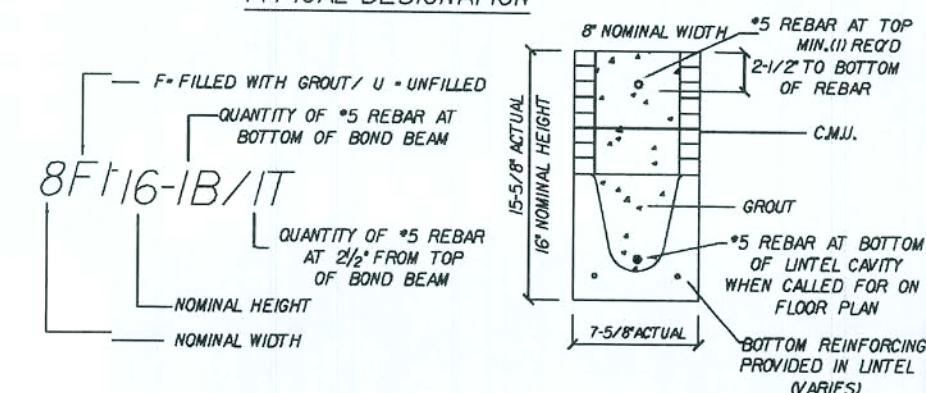
MATERIALS

- f.c. cast lntels = 3500 psi.
- f.c. stressed lntels = 6000 psi.
- f.c. cut = 3000 psi w/ maximum $\frac{3}{8}$ " aggregate.
- Concrete masonry units (CMU) per ASTM C90 w/ minimum net area compressive strength = 1900 psi.
- Reb provided in precast lntel per AST A615 GR60. Field rebar per AST A615 GR40 or GR60.
- Preressing strand per ASTM A416 gr4 270 low relaxation.
- 7/32" wire per ASTM A510.
- Mortr per ASTM C270 type M or S.

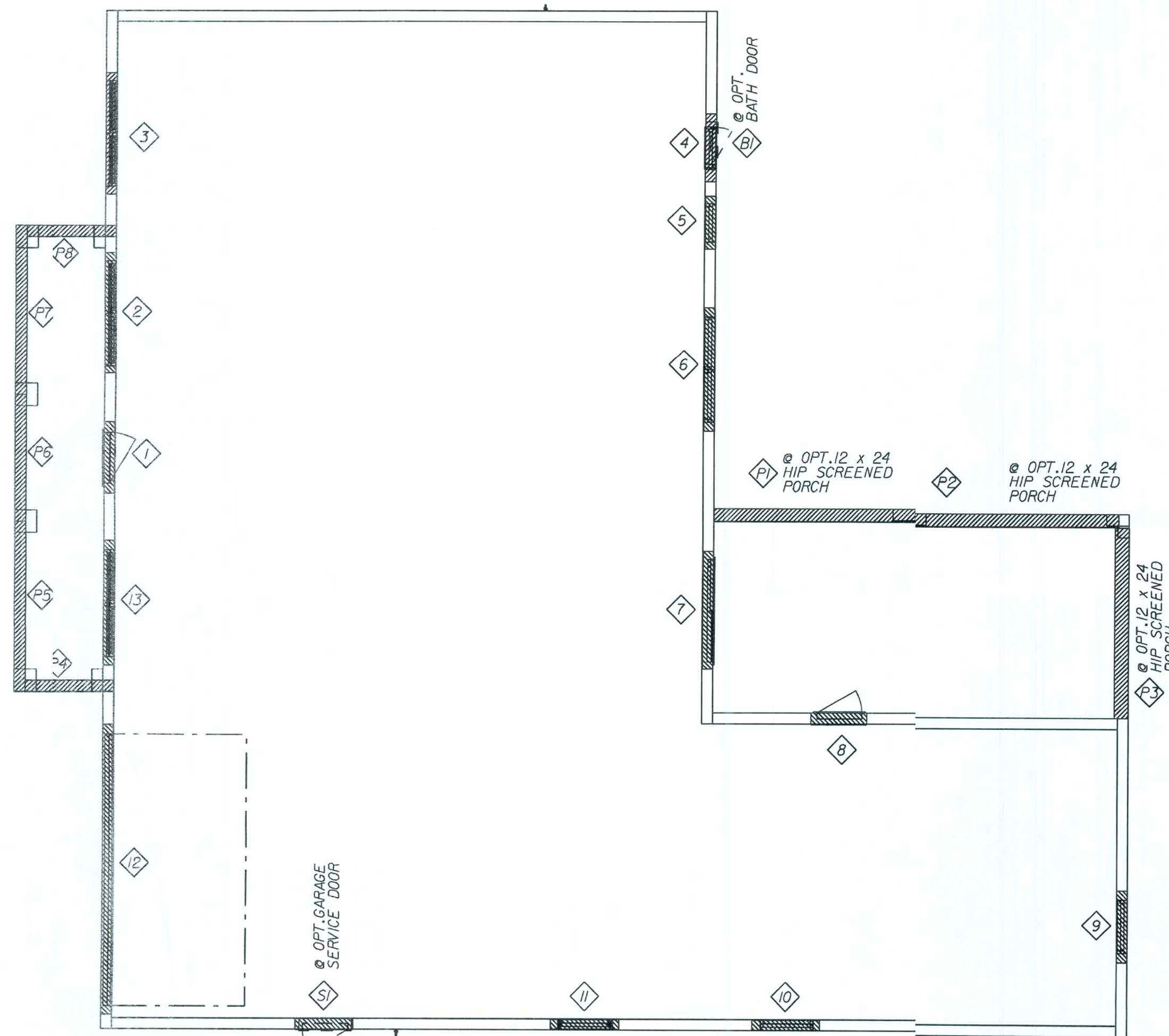
TYPICAL GARAGE DESIGNATION



TYPICAL DESIGNATION



REVISED 12/29/04



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Maronda Homes
FLORIDA
4005 MARONDA WAY
SANFORD, FL 32771
(407) 321-0064

AMERICANA WINDOW/LINTEL

AUSTIN 4

ELEVATION "M"

GARAGE: RIGHT

125 MPH

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
MAY 15 2008

SHEET:

WL1m

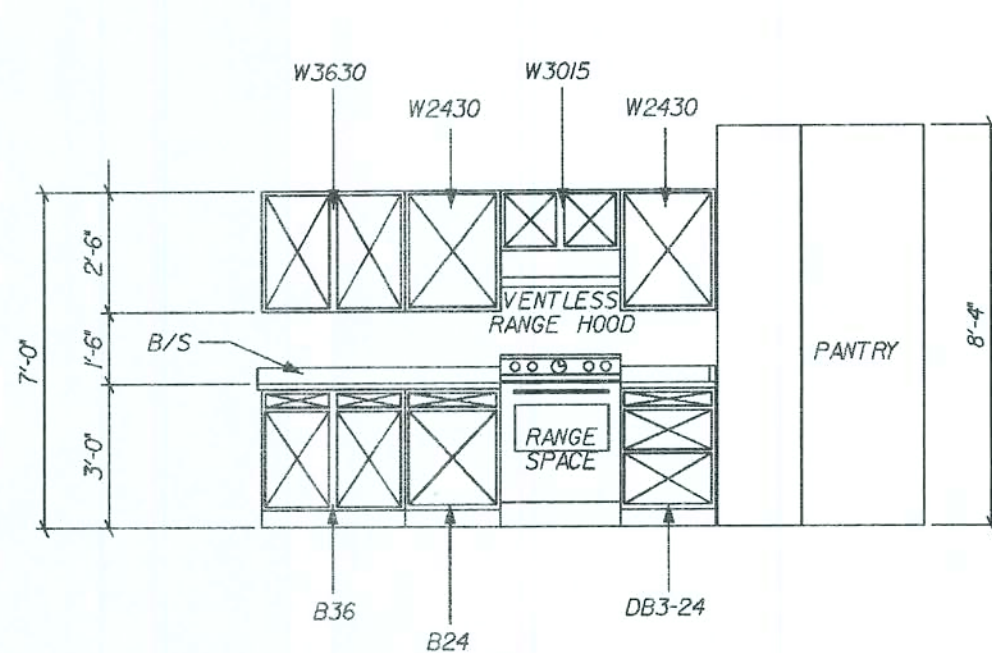
REVISED 04-02-07

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

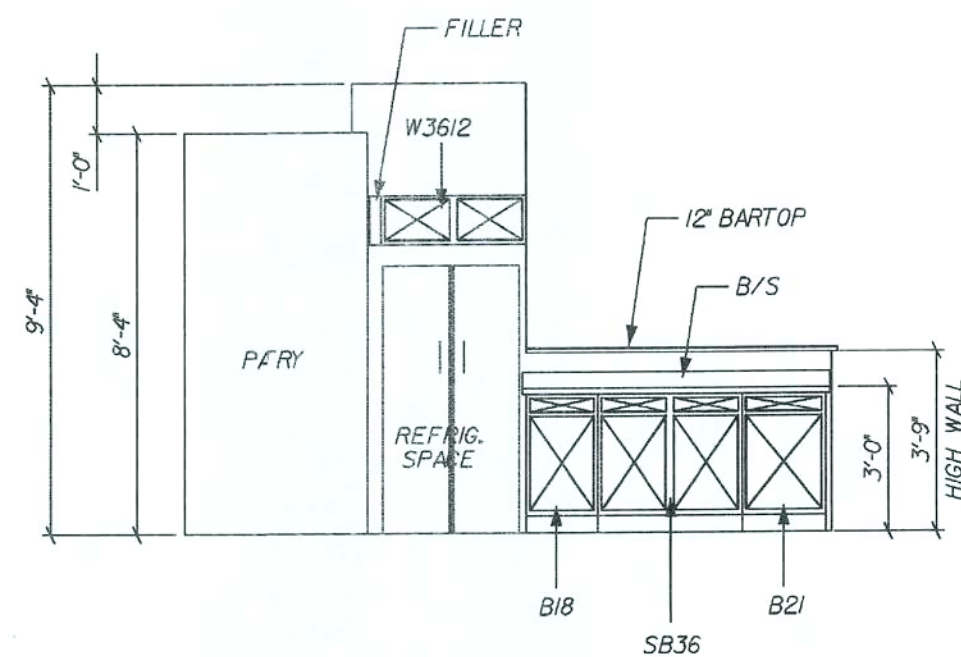
PLOT DATE: 07 APR 2008

PATYH0088.05\autsh\m25\autsh-m125w11

08-14-07 REV. CODE INFORMATION



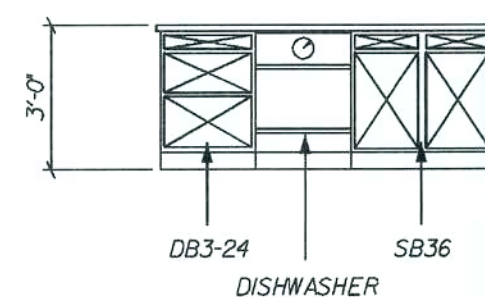
A KITCHEN ELEVATION



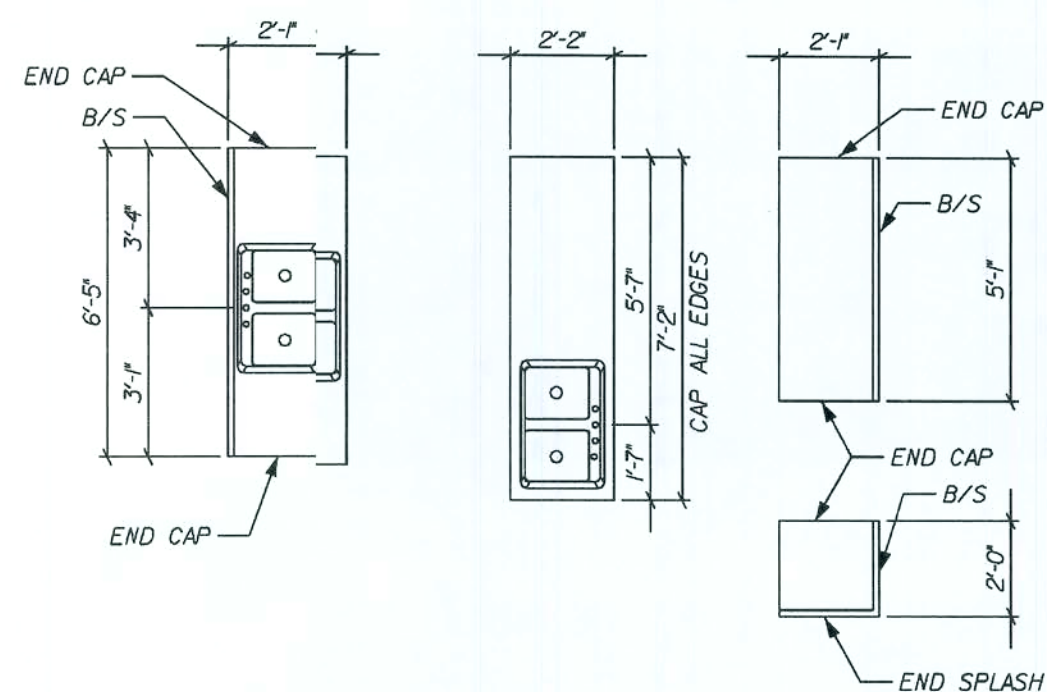
B KITCHEN ELEVATION

ON REAR FACE OF ISLAND CABINETS
INSTALL 1/4" VENEER PANEL OVER
1/4" PLYWOOD BACKER w/ (2) OUTSIDE
CORNER PEICES.

ISLAND > 48" ADD (1) BATTON MOLDING
AT PANEL JOINT

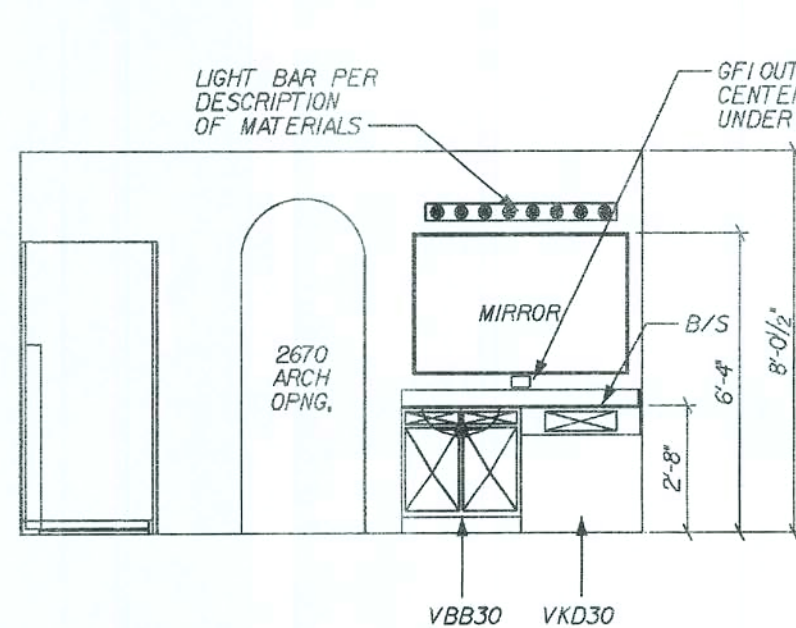


C KITCHEN ELEVATION

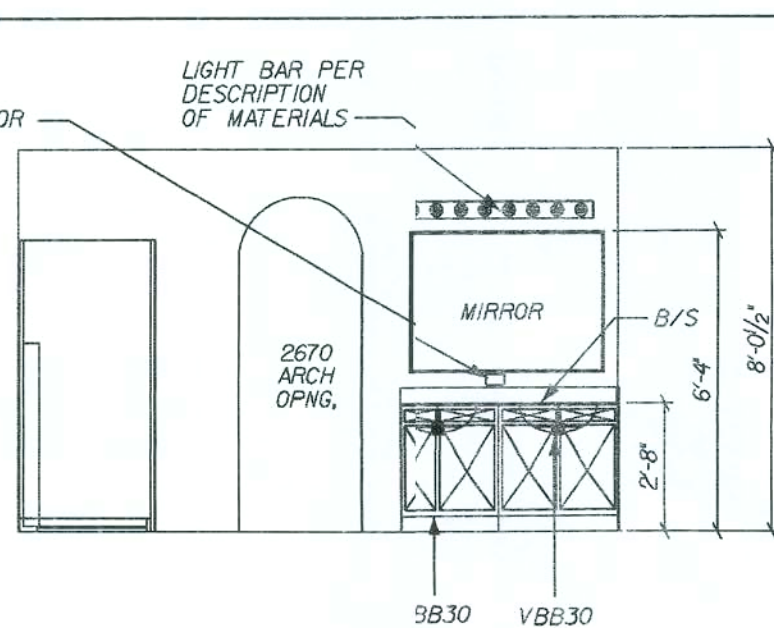


KITCHEN COUNTER TOP PLAN

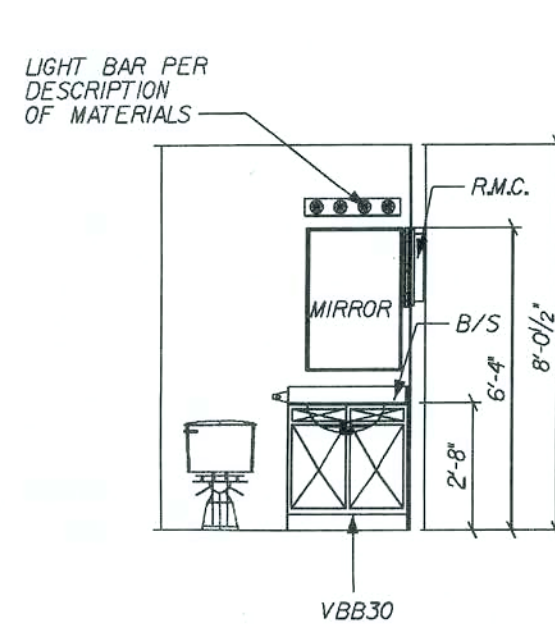
FOR COUNTER TOP CONSTRUCTION
ONLY, NOT FOR FIELD USE



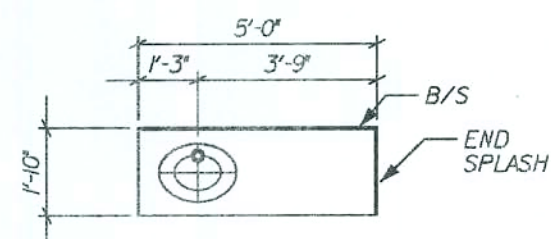
D STANDARD MASTER BATH VANITY



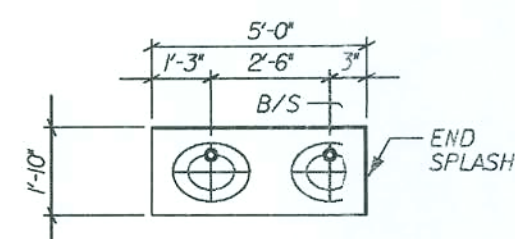
D OPTIONAL DB SINK - MASTER BATH VANITY



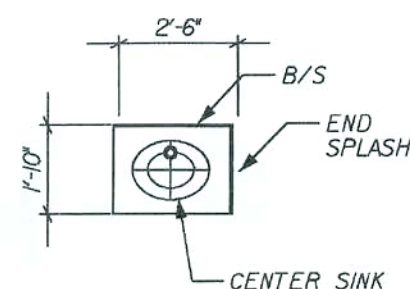
E HALL BATH VANITY



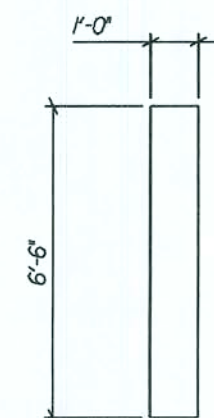
STANDARD LAV. TOP
MASTER BATH VANITY



OPT. DBL. SINK LAV. TOP
MASTER BATH VANITY

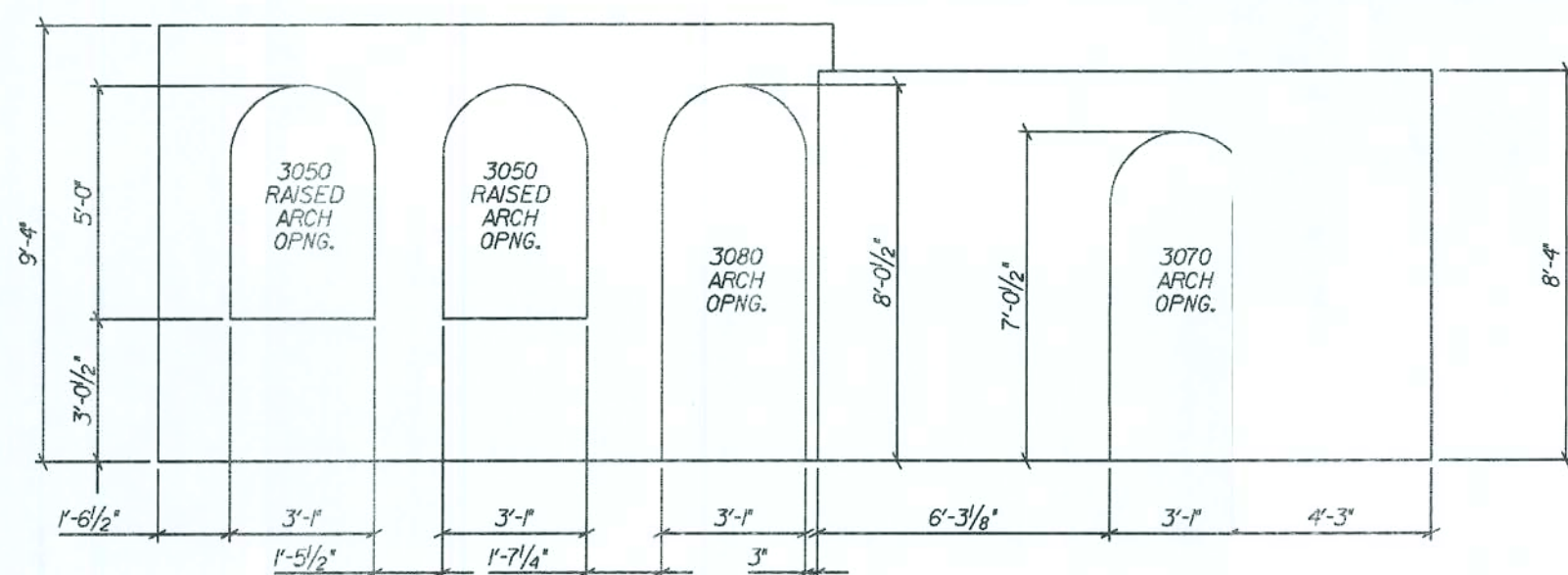


STANDARD LAV. TOP
HALL BATH VANITY



KITCHEN BAR TOP PLAN

FOR COUNTER TOP CONSTRUCTION
ONLY, NOT FOR FIELD USE



F LIVING/DINING ROOM
ARCH ELEVATION

REVISIONS :
01-08-07 REV. BASE CABINET @ RANGE

Maronda Homes

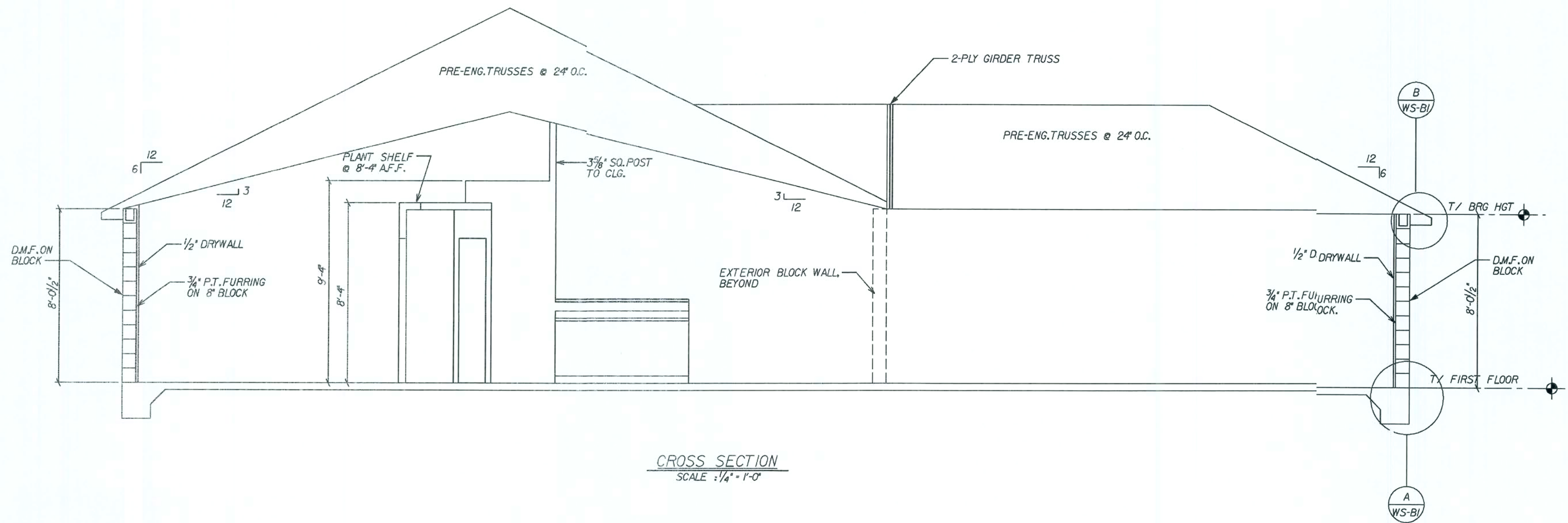
FLORIDA ARCHITECTURE WAS DESIGNED IN
ACCORDANCE AND MEETS THE REQUIRE-
MENTS OF THE FLORIDA BUILDING CODE
2004 : RESIDENTIAL AND 2005 SUP-
PLEMENT

14071 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

AMERICANA	INT. ELEVATIONS
AUSTIN 4	
DRAWN BY:	GARAGE: RIGHT
RELEASE DATE:	10-18-04

SHEET:

3A



REVISIONS:

Maronda Homes
 4005 MARONDA WAY SANFORD, FLORIDA 32771
 (407) 321-0064

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 RESIDENTIAL ADOPTION, 2006 SUPPLEMENT

FLORIDA

AMERICAN BLD. CROSS SECTION

AUSTIN 4

ALL ELEVATIONS

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 10-18-04

Maronda Systems
 4005 Maronda Way
 Sanford, FL 32771
 (407) 321-0064

Elmer Bergman
 Elmer Bergman, P.E.
 License No. 50158
 MAY 15 2008

SHEET:

CSU

VENTILATION OF ATTIC SPACE: AUSTIN 4M

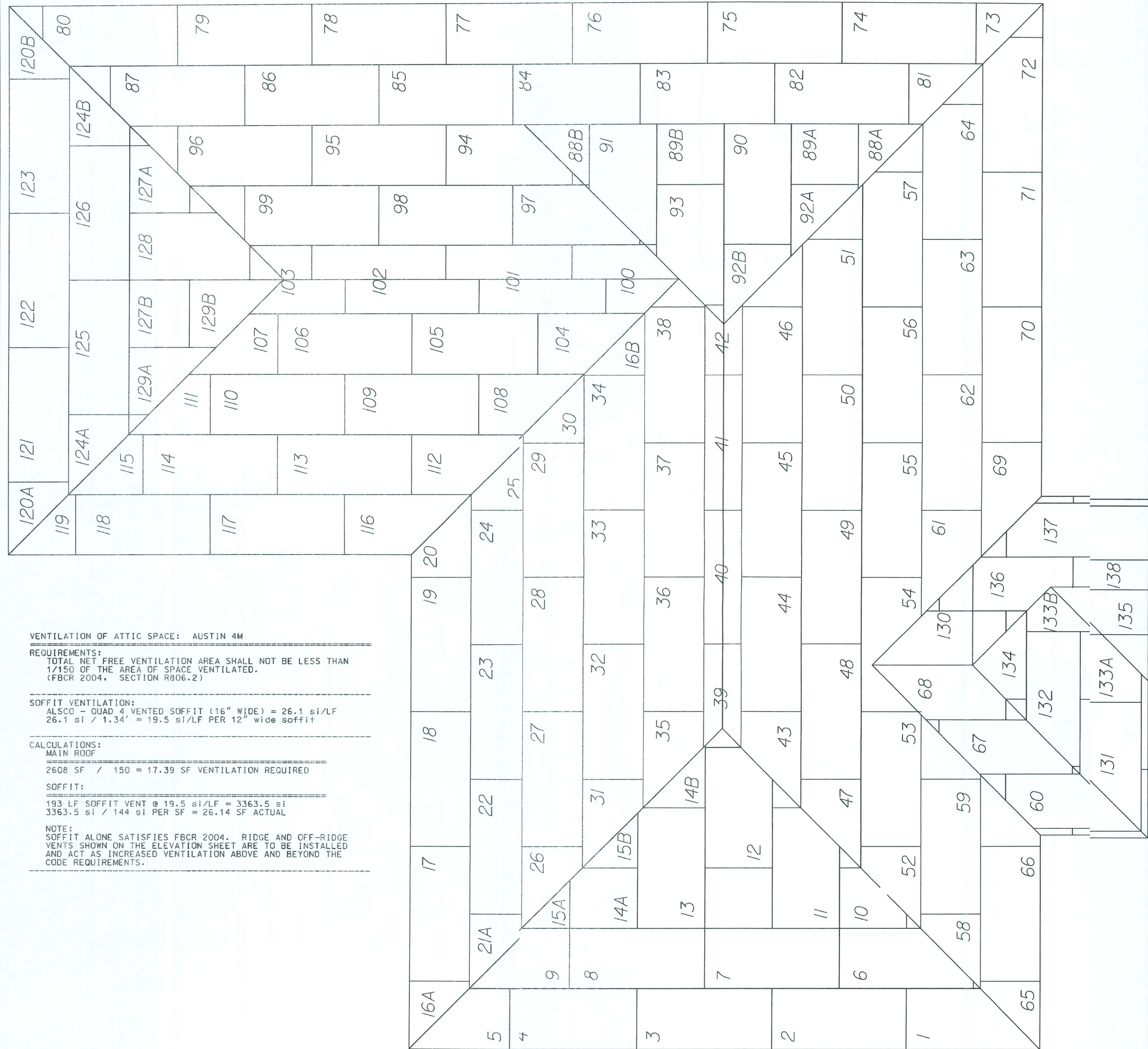
REQUIREMENTS:
TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN
1/150 OF THE AREA OF SPACE VENTILATED.
(FBCR 2004, SECTION R806.2)

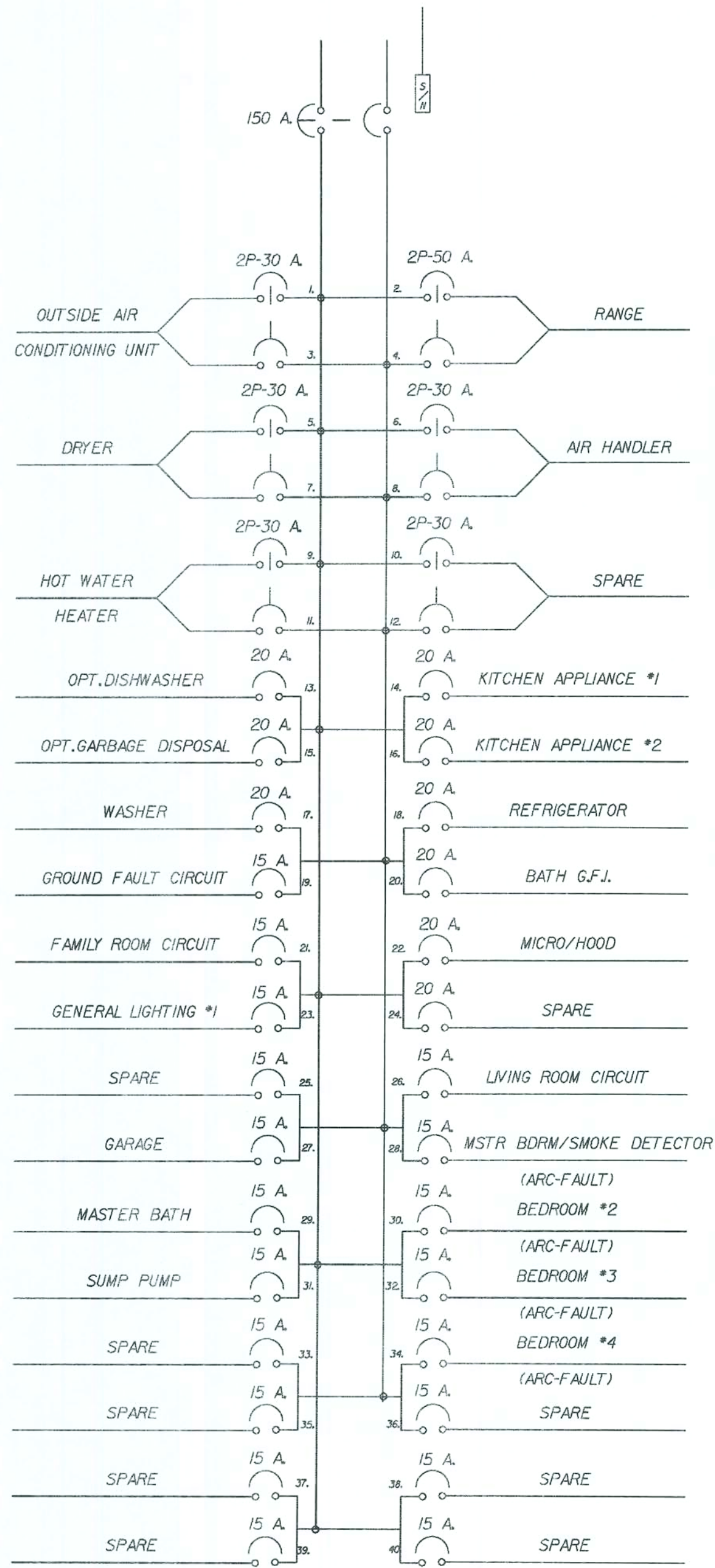
SOFFIT VENTILATION:
ALSO - QUAD 4 VENTED SOFFIT (16" WIDE) = 26.1 sq/LF
26.1 sq / 1.34' = 19.5 sq/LF PER 12" wide soffit

CALCULATIONS:
MAIN ROOF
2608 SF / 150 = 17.39 SF VENTILATION REQUIRED

SOFFIT:
193 LF SOFFIT VENT @ 19.5 sq/LF = 3363.5 sq
3363.5 sq / 144 sq PER SF = 26.14 SF ACTUAL

NOTE:
SOFFIT ALONE SATISFIES FBCR 2004. RIDGE AND OFF-RIDGE
VENTS SHOWN ON THE ELEVATION SHEET ARE TO BE INSTALLED
AND ACT AS INCREASED VENTILATION ABOVE AND BEYOND THE
CODE REQUIREMENTS.





MAIN BREAKER LOAD CENTER

NOTE:
IF LOCAL CODE REQUESTS A LOCK-DOG DEVICE
ON BREAKERS FOR APPLIANCES, FIELD WILL
SUPPLY TO COMPLY

ELECTRICAL LOAD CALCULATIONS

MODEL: AUSTIN 4

09/21/05

LARGEST LOAD: HEAT PUMP W/ SUPPLEMENTAL HEAT

VOLT/AMPS
13700

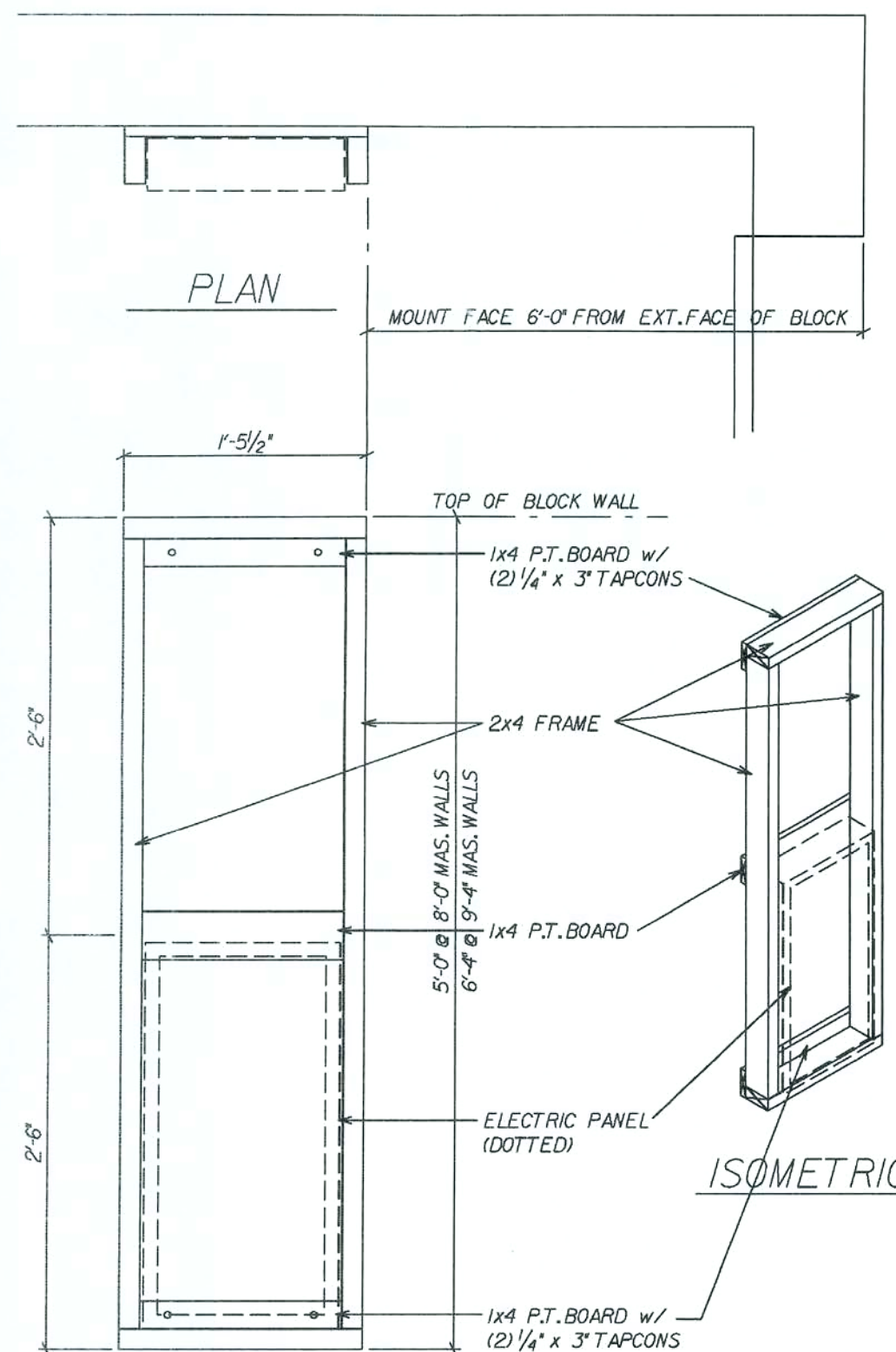
SQUARE FEET LIVING AREA	2236 @ 3 VOLT/AMPS	6708
SMALL APPLIANCE CIRCUITS		3000
LAUNDRY CIRCUIT		1500
OVEN		11700
WATER HEATER		4500
DISHWASHER		1500
DRYER		5000
DISPOSAL		500
TOTAL LOAD		34408

FIRST 10KVA @100%
REMAINDER @40%
LARGEST LOAD

10000
9763.2
13700

TOTAL LOAD 33463 V.A./240 VOLTS= 139 AMPS

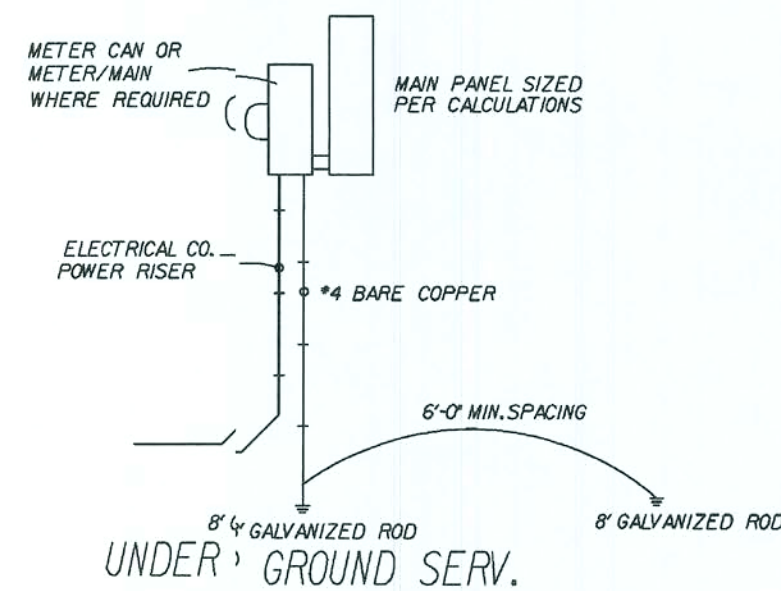
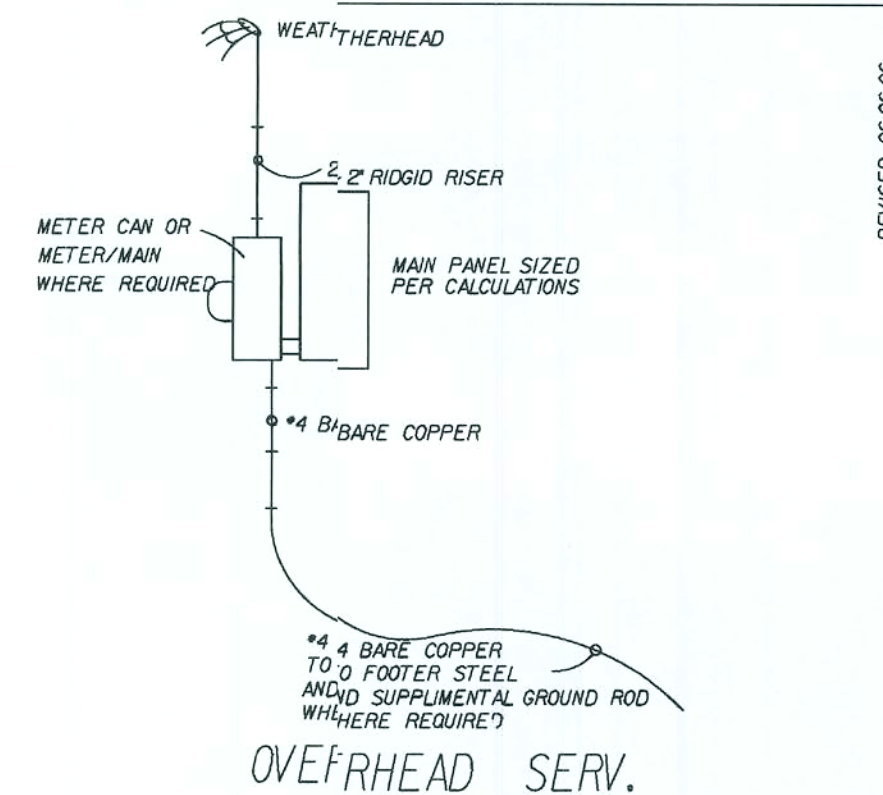
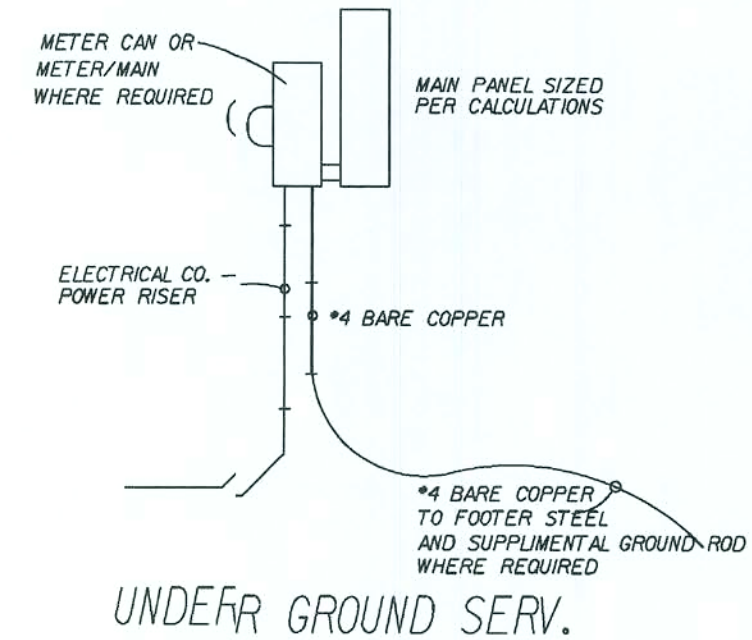
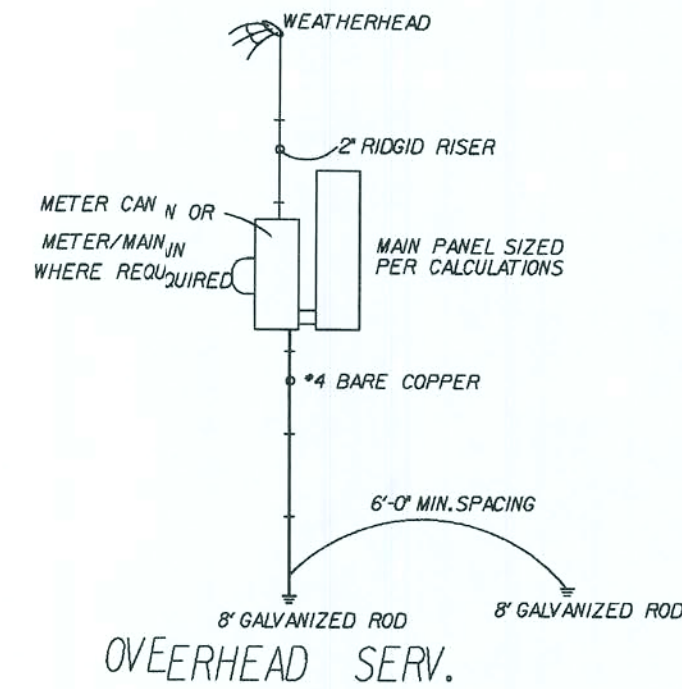
SERVICE SIZE: 150 AMPS



ELECTRIC PANEL FRAME

REVISED 09-07-07
ADDED HGT. @ 9'-4" MAS. WALL

SCALE: 1" = 1'-0"



* GROUNDING ELECTRODE SYSTEM TO BE INSTALLED
PER ARTICLE 2-250 NAT. ELECT. CODE *

REVISIONS:	05-23-06	REV. WASHER FROM 15A TO 20A
	05-24-06	ADD NOTE FOR LOCK-DOG
	12-13-06	ELIM. SMOKE DETECT. HOME RUN.
	02-19-07	ADD SMOKE DETECTOR TO MASTER BEDROOM
	03-10-08	REV. DW. & GD BKR. TO 20 AMP. KW

Maronda Homes
FLORIDA
4005 MARONDA WAY SANFORD, FL 32711
(407) 321-0064
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA ELECTRICAL DETAILS
AUSTIN-4
DRAWN BY: GARAGE:
RELEASE DATE: 09-11-03

SHEET:
ELIA

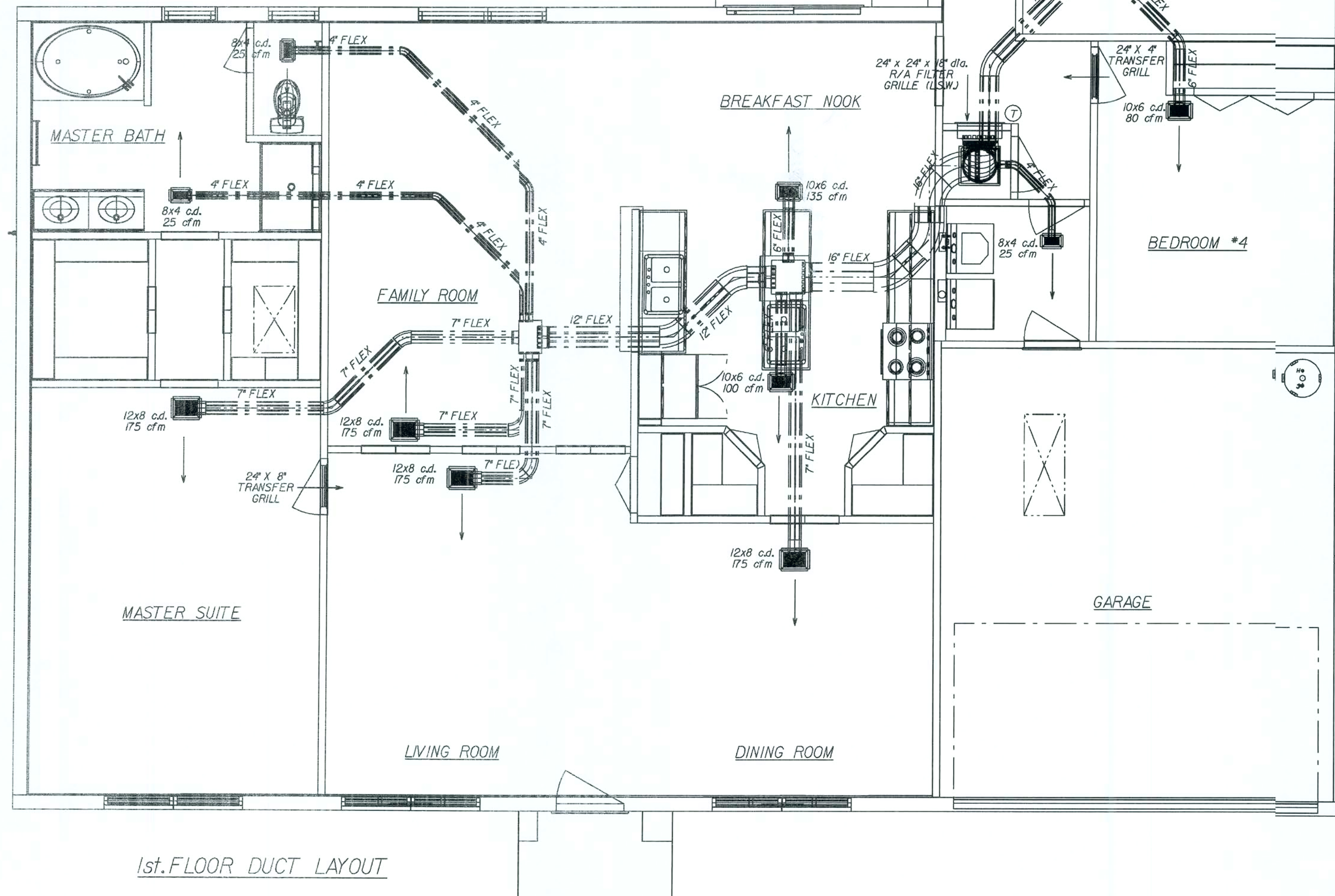
* USE WITH 13
SEER EQUIP.*

AUSTIN 4 BEDROOM
HVAC LAYOUT

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

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 67170 CFM
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
EXT STATIC .60 1270 CFM L

ALL TAPES, CONNECTORS AND MASTIC
USED WILL BE UL-181 APPROVED



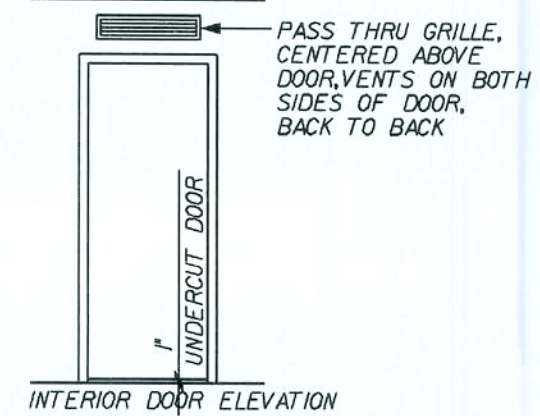
1st FLOOR DUCT LAYOUT

GENERAL MECHANICAL NOTES:
ALL TAPES, CONNECTORS AND MASTIC USED
WILL BE UL-181 APPROVED.

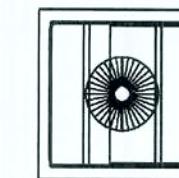
SEE ELECTRIC PLANS FOR EXHAUST FAN
LOCATIONS IN BATH AREAS.

SEE FLOOR PLAN FOR CLOTHES DRYER
VENT LOCATION.

M1602.4 BALANCED RETURN AIR:
TRANSFER GRILLES @ HABITABLE ROOMS
SEE DETAIL BELOW:



APPROXIMATE LOCATION
OF A/C UNIT AND PAD.



AMERICANA REGISTER LAYOUT

AUSTIN - 4

4 BEDROOM

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 10-18-04 TOM MARTINEZ

SHEET:

HVA

Maronda Homes

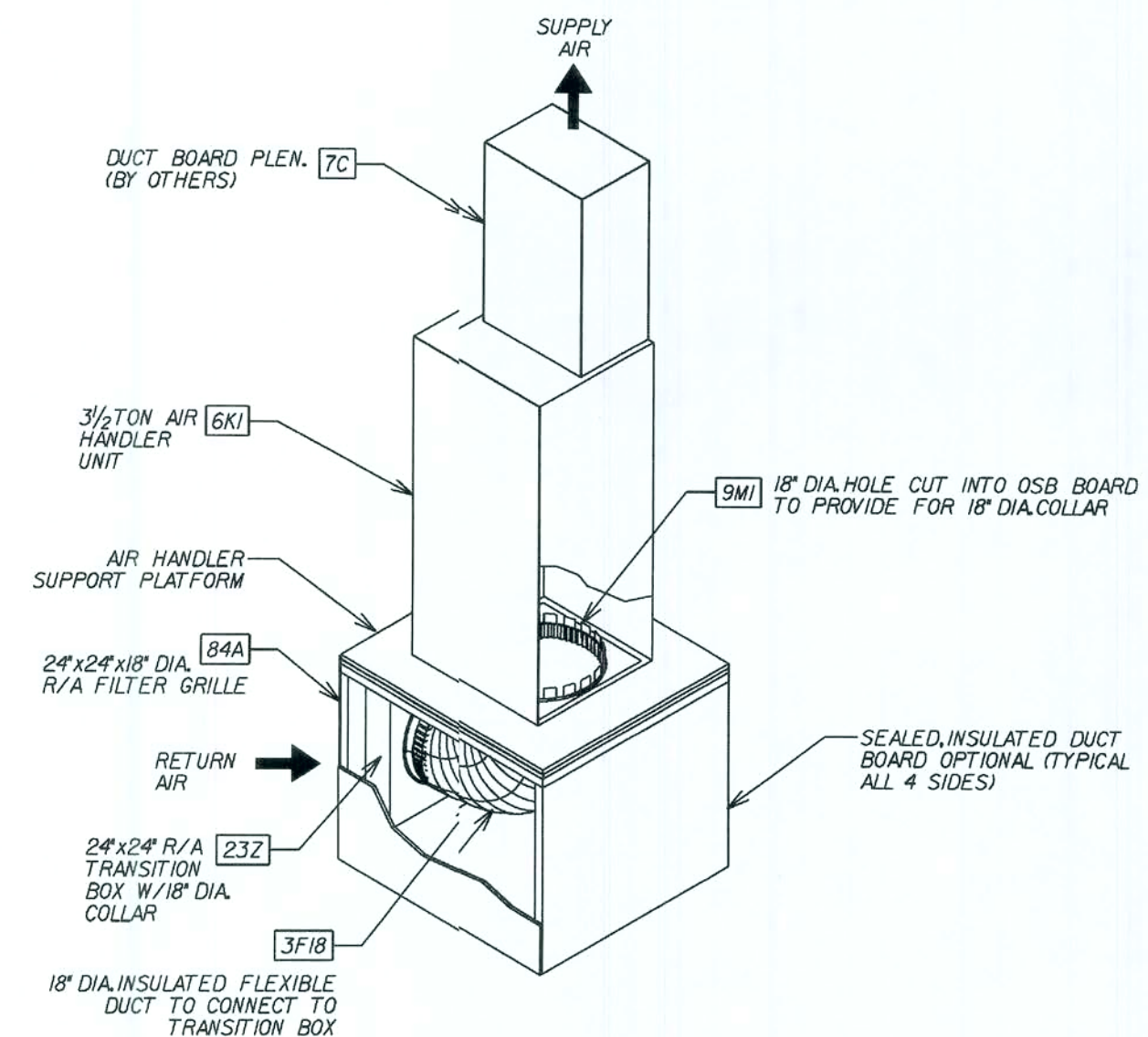
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FLORIDA 4005 MARONDA WAY SANFORD, FLORIDA

THIS STRUCTURE WAS DESIGNED IN
ACCORDANCE WITH THE REQUIRE-
MENTS OF THE FLORIDA BUILDING CODE
AND THE 2006 SUPPLEMENT

PLOT DATE: 04 DEC 2007

REVISIONS:
1/10/05 REMOVED ENG'S NOTE
10/31/06 13 SEER UPDATE PER DWGS.TJM



hvac item REPORT

Tue Oct 31 11:41:52 2006
p:*fl*houses 05*austin4*thvac*austin4h.htg

QUANTITY	DESCRIPTION
4	23A 150045 .55.0035 8x4 CEILING BOOT W/4" DIA. COLLAR
5	23C 150045 .55.0036 10x6 CEILING BOOT W/6" DIA. COLLAR
4	23E 150045 .55.0038 12x8 CEILING BOOT W/7" DIA. COLLAR
1	23Z 150045 .55.0042 24x24 R/A TRANSITION BOOT W/18" COLLAR
10'	3F10 150040 .00.0097 10" FOIL FLEX R6
11'	3F12 150040 .00.0098 12" FOIL FLEX R6
8'	3F16 150040 .00.0108 16" FOIL FLEX R6
3'	3F18 150040 .00.0138 18" FOIL FLEX R6
65'	3F4 150040 .00.0091 4" FOIL FLEX R6
33'	3F6 150040 .00.0093 6" FOIL FLEX R6
45'	3F7 150040 .00.0094 7" FOIL FLEX R6
1	6K1 150005 .55.0044 FEM2X4200A 13 SEER 3.5 TON AHU
1	6Q1 150010 .01.0104 N2H342AKA 13 SEER 3.5 TON CONDENSER
1	7C 150005 .55.0110 19x13x30" H BOX PLenum
7	7Q 150040 .00.0118 DUCT PLENUM TRIANGLE
2	7R 150040 .00.0111 18" SQUARE DUCT PLENUM
3	81A 150055 .55.0041 24x4 TRANSFER GRILLE
3	81B 150045 .55.0052 24x4 TRANSFER GRILLE FRAME
1	81C 150055 .55.0078 24x8 TRANSFER GRILLE
1	81D 150045 .55.0078 24x8 TRANSFER GRILLE FRAME
1	84A 150055 .55.0032 24x24 RETURN AIR FILTER GRILLE
9B1	9B1 150040 .00.0075 4" K-COLLAR/ROTH (4KC/413)
5	9D1 150040 .00.0078 6" K-COLLAR/ROTH (6KC/413)
4	9E1 150040 .00.0078 7" K-COLLAR/ROTH (7KC/413)
2	9H1 150040 .00.0081 10" K-COLLAR/ROTH (10KC/413)
2	9I1 150040 .00.0082 12" K-COLLAR/ROTH (12KC/413)
1	9M1 150040 .00.0137 18" K-COLLAR/ROTH (18KC/413)
2	9N1 150040 .00.0084 16" K-COLLAR/ROTH (16KC/413)

3.5 TON
TEMPSTAR FEM2X4200 2 13 SEER
TEMPSTAR N2H342AKA 1 13 SEER
7.5 KW
BRAEURN 5200 2 STAGE HEAT PUMP PROGRAMABLE
BROAN 67170 CFM
SIZE OF REDUCTION BOXES (DB6-16x4x16x12x15)
SIZE OF TRIANGLES (15)5x15x15x15
EXT STATIC BO 1270 CFM L

ALL TAPES, CONNECTORS, AND MASTIC
USED WILL BE UL-181 API APPROVED

SHEET:

 $1/50-H$

REVISIONS :

1) REV.FLEX.DUCT & B/M (8/26/05) T.T.
10/31/06 13 SEER UPDATE PER DWGS.TJM

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Maronda Homes

407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

o:\fhouses_05\austrin4\hvac\austrin4hl3.js

AMERICANA	H.V.A.C. ISO
-----------	--------------

AUSTIN - 4

4 BEDROOM

GARAGE:

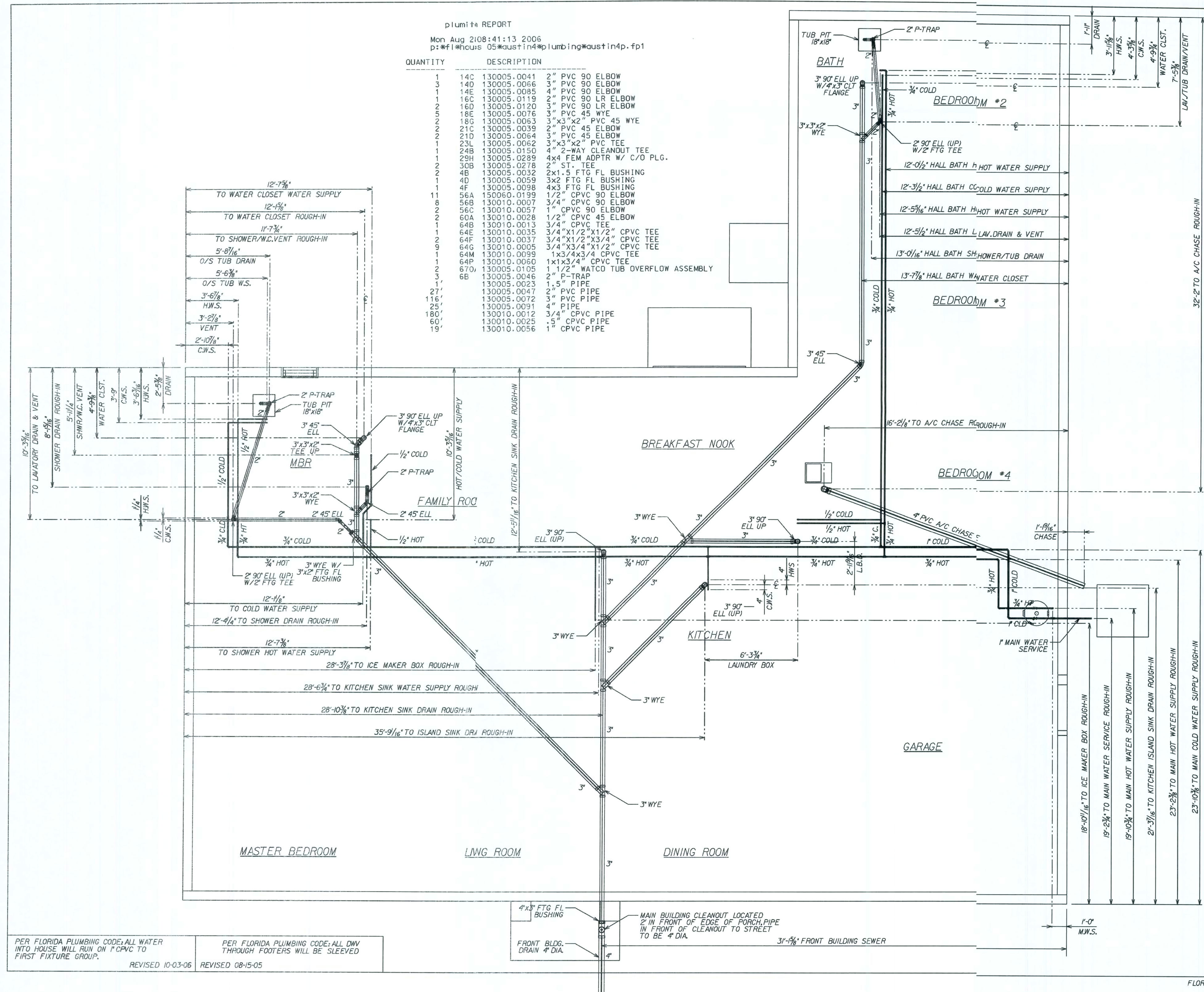
GARAGE:

RELEASE DATE: 10-18-04

PLOT DATE: 04 DEC 2007

plumbers REPORT
Mon Aug 21:08:41:13 2006
p:\fl\hous 05\Austin4\plumbing\Austin4p1

QUANTITY	DESCRIPTION
1	14C 130005.0041 2" PVC 90 ELBOW
3	14D 130005.0066 3" PVC 90 ELBOW
1	14E 130005.0085 4" PVC 90 ELBOW
1	16C 130005.0119 2" PVC 90 LR ELBOW
2	16D 130005.0120 3" PVC 90 LR ELBOW
5	18E 130005.0076 3" PVC 45 WYE
2	18G 130005.0063 3"x3"x2" PVC 45 WYE
2	21C 130005.0039 2" PVC 45 ELBOW
2	21D 130005.0064 3" PVC 45 ELBOW
1	23L 130005.0062 3"x3"x2" PVC TEE
1	24B 130005.0150 4" 2-WAY CLEANOUT TEE
1	29H 130005.0289 4x4 FEM ADPTR W/ C/O PLG.
2	30B 130005.0278 2" ST. TEE
2	4B 130005.0032 2x1.5 FTG FL BUSHING
1	4D 130005.0059 3x2 FTG FL BUSHING
1	4F 130005.0098 4x3 FTG FL BUSHING
1	56A 130010.0199 1/2" CPVC 90 ELBOW
8	56B 130010.0007 3/4" CPVC 90 ELBOW
2	56C 130010.0057 1" CPVC 90 ELBOW
2	60A 130010.0028 1/2" CPVC 45 ELBOW
1	64B 130010.0013 3/4" CPVC TEE
1	64E 130010.0035 3/4"x1/2"x1/2" CPVC TEE
2	64F 130010.0037 3/4"x1/2"x3/4" CPVC TEE
9	64G 130010.0005 3/4"x3/4"x1/2" CPVC TEE
1	64M 130010.0099 1x3/4x3/4 CPVC TEE
1	64P 130010.0060 1x1x3/4" CPVC TEE
2	67O 130005.0105 1 1/2" WATCO TUB OVERFLOW ASSEMBLY
3	68 130005.0046 2" P-TRAP
1	130005.0023 1 1/2" PIPE
1	130005.0047 1" PVC PIPE
116'	130005.0074 1" PVC PIPE
25'	130005.0091 1" PIPE
180'	130010.0012 3/4" CPVC PIPE
60'	130010.0025 1 1/2" CPVC PIPE
19'	130010.0056 1" CPVC PIPE



REVISIONS :

5/12/06 REVISED CALL-OUT NOTES T.J.M.
06/13/06 REVISED UG PLBG FITTINGS T.J.M.
08/03/06 REV. CLEANOUT & BOM LIST T.J.M.

AMERICANA UNDERGROUND PLBG.

AUSTIN - 4

4 BEDROOM

GARAGE: RIGHT

RELEASE DATE: 10-18-04

Maronda Homes

FLORIDA
4005 MARONDA WAY
SANFORD, FL 321-321-0064

THIS STRUCTURE WAS DESIGNED IN
ACCORDANCE AND MEETS THE REQUIRE-
MENTS OF THE FLORIDA BUILDING CODE
FOR RESIDENTIAL AND 2003, 2006 SUP-
PLEMENT

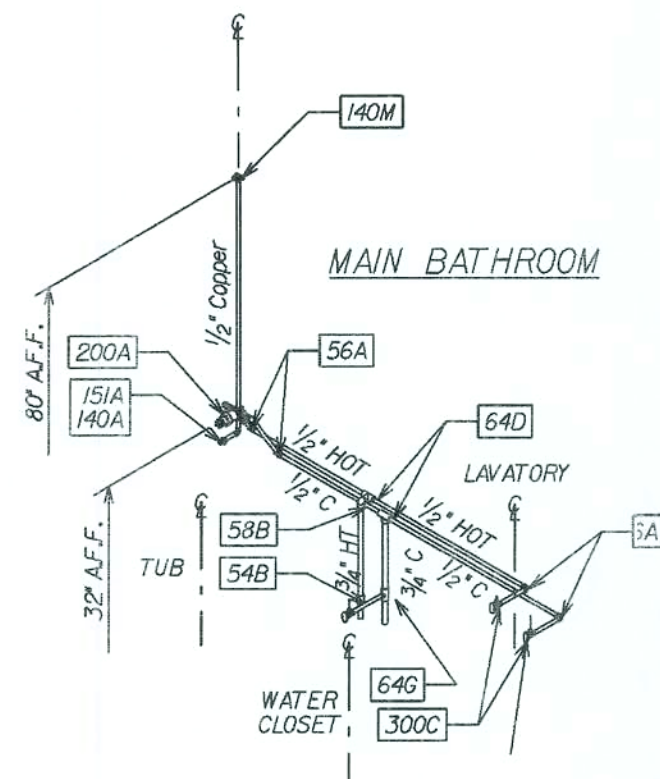
SHEET:

FPI

09/15/04

04 DEC 2007

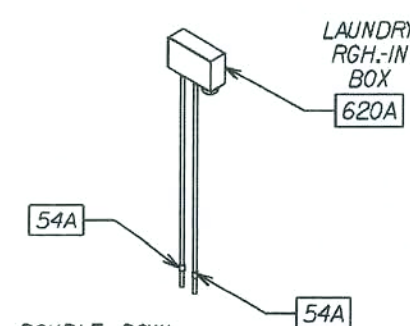
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



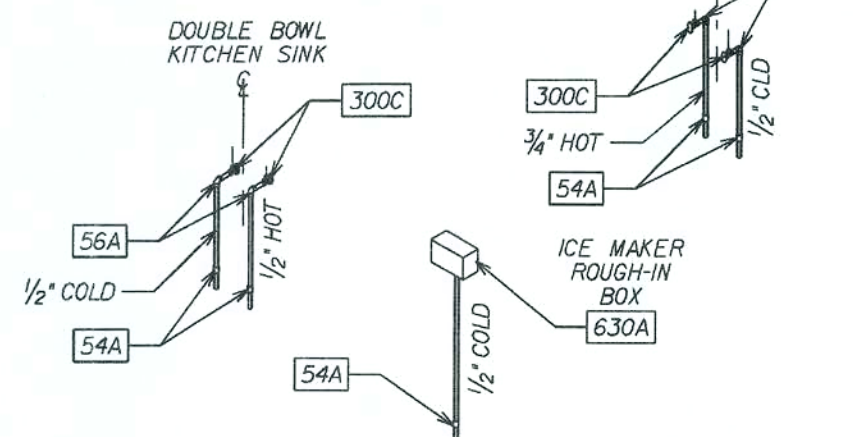
plumitem REPORT
Thu Aug 12 10:48:36 2004
p:*fl*houses 05*austin4*plumbing*austin4p.plm

QUANTITY	DESCRIPTION
1	140A 90 ELL Cu 1/2"
2	140M 90 ELL Cu 1/2 Drop
1	151A Adapter Male Cu 1/2"
1	200A Tub Diverter
1	200B Shower Diverter
2	300B Straight Valve 1/2" x 3/8"
12	300C Angle Valve 1/2" x 3/8"
11	54A CPVC COUPLING .5
5	54B CPVC COUPLING .75
13	56A CPVC EL90 .75
4	56B CPVC EL90 .75
4	58A CPVC EL90 STREET .5
1	58B CPVC EL90 STREET .75
2	605A Corr Gas App Conn
1	620A Laundry Box Left
1	630A Ice Maker Box
3	640B Water Heater - OH
1	64D CPVC TEE .5x.5x.75
2	64F CPVC TEE .75x.5x.75
2	64G CPVC TEE .75x.75x.5
2	650A Hose Bibb
2	66B CPVC MALE ADAPTER BRS THR .75
1	80A CPVC SHUTOFF VALVE .75
2	90A Shut-Off Valve
52'	.5" CPVC PIPE
26'	.75" CPVC PIPE
7'	1/2" Cu Pipe

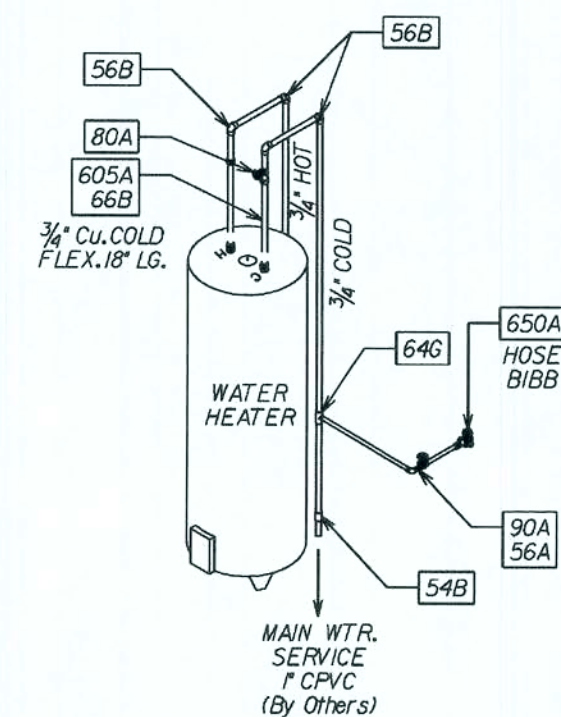
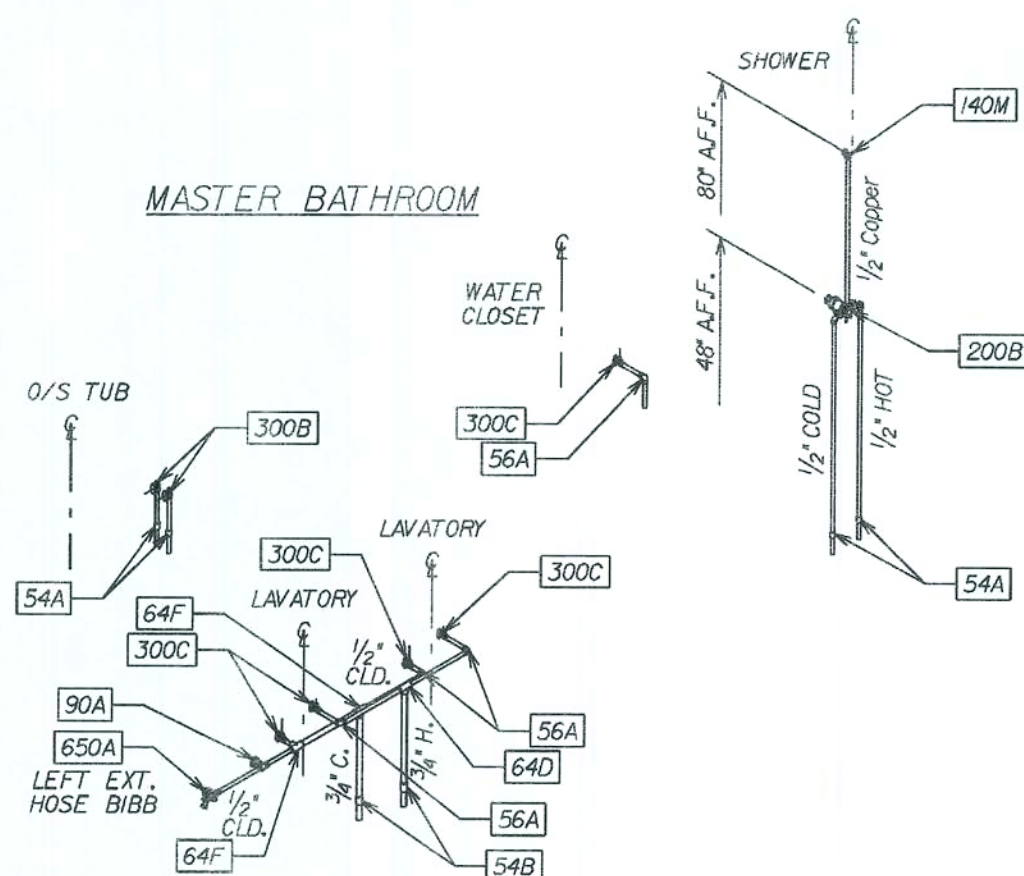
LAUNDRY



KITCHEN



MASTER BATHROOM



AMERICANA WATER LINES ISO.

AUSTIN - 4

4 BEDROOM

DRAWN BY: GARAGE: RIGHT

RELEASE DATE: 10-18-04

09/15/41

SHEET:

ISO-W

PER FLORIDA PLUMBING CODE, ALL WATER INTO HOUSE WILL RUN ON 1" CPVC TO FIRST FIXTURE GROUP.

REVISED 10-03-06

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

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Maronda Homes

FLORIDA

SANFORD,

4005 MARONDA WAY

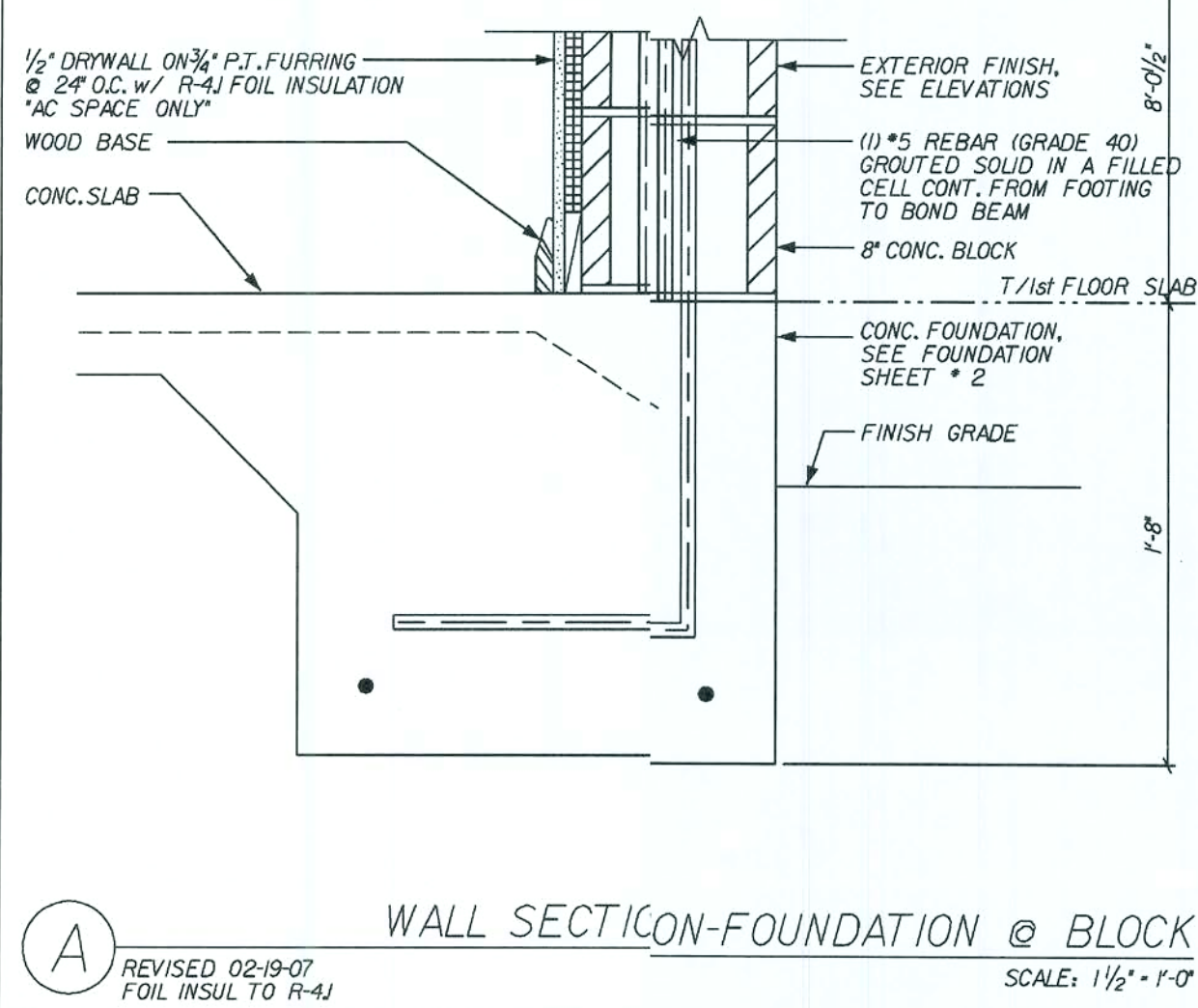
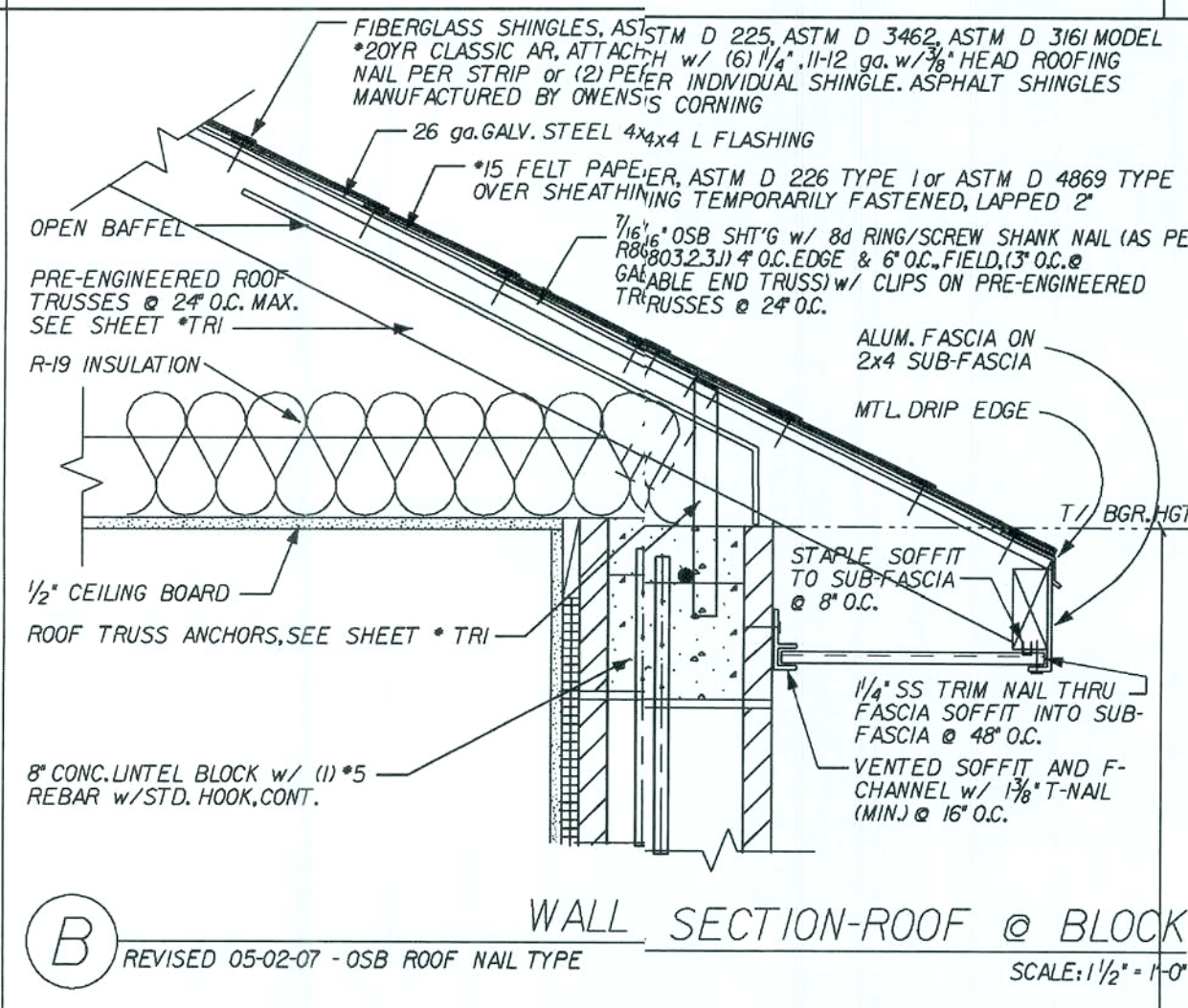
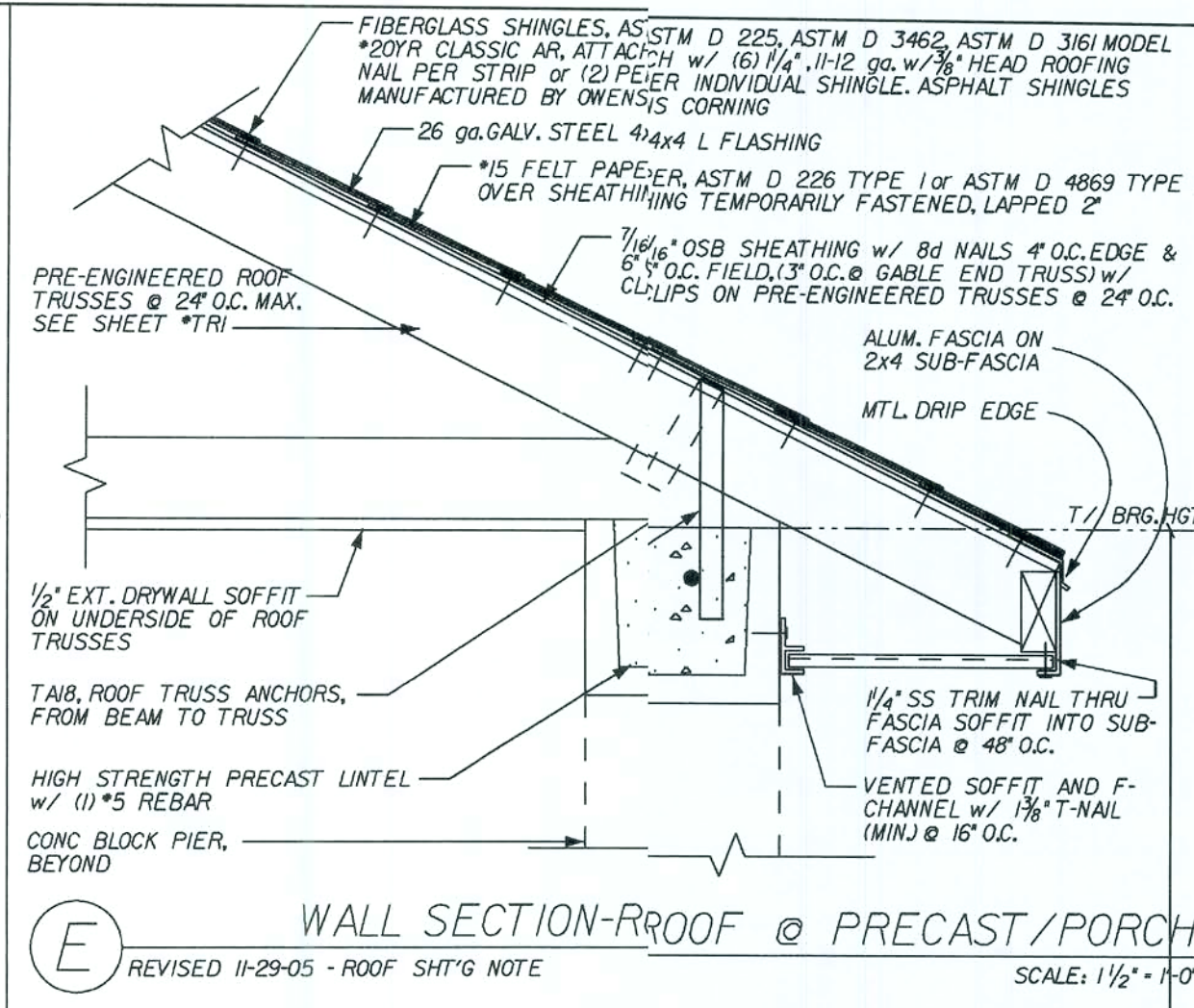
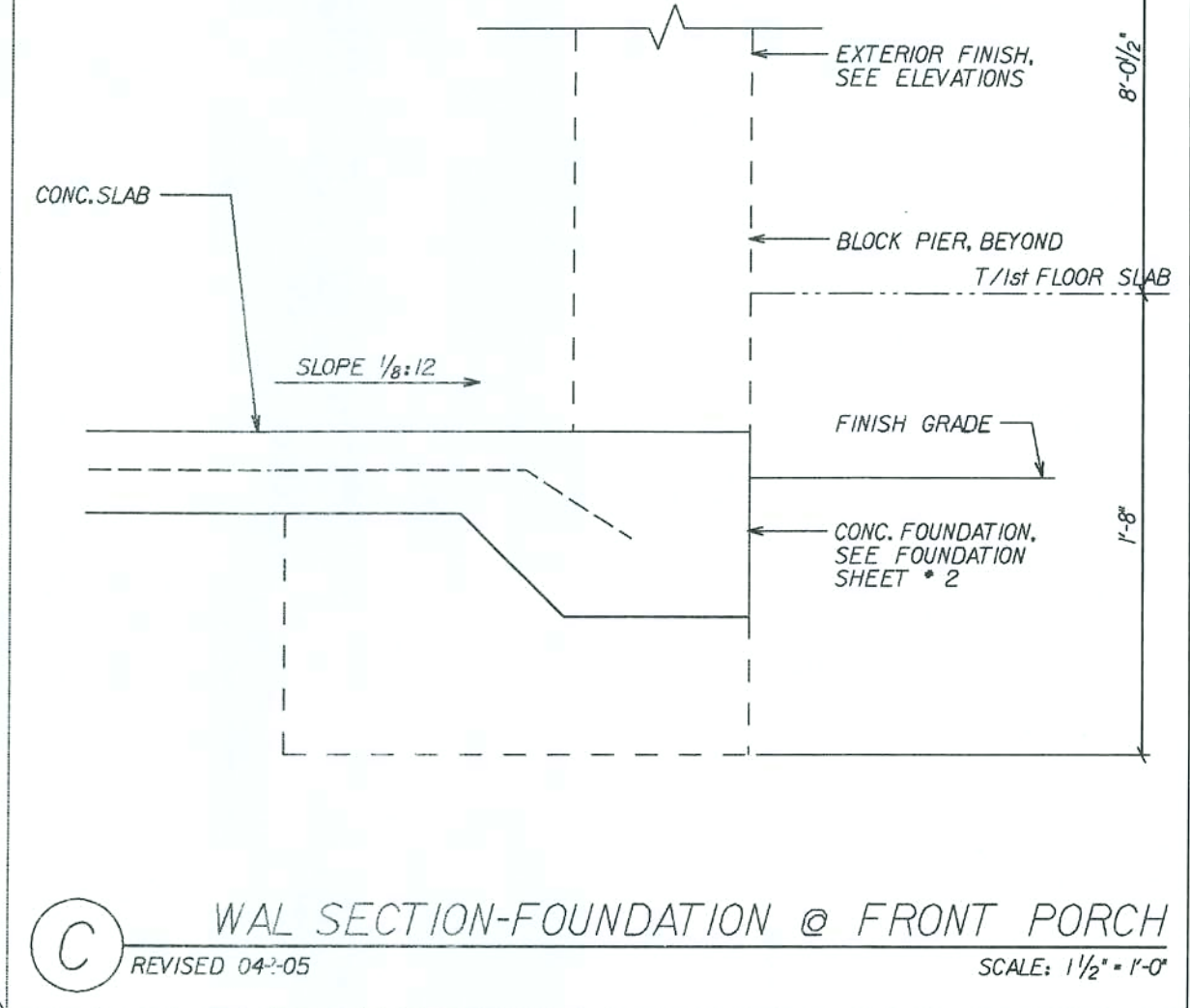
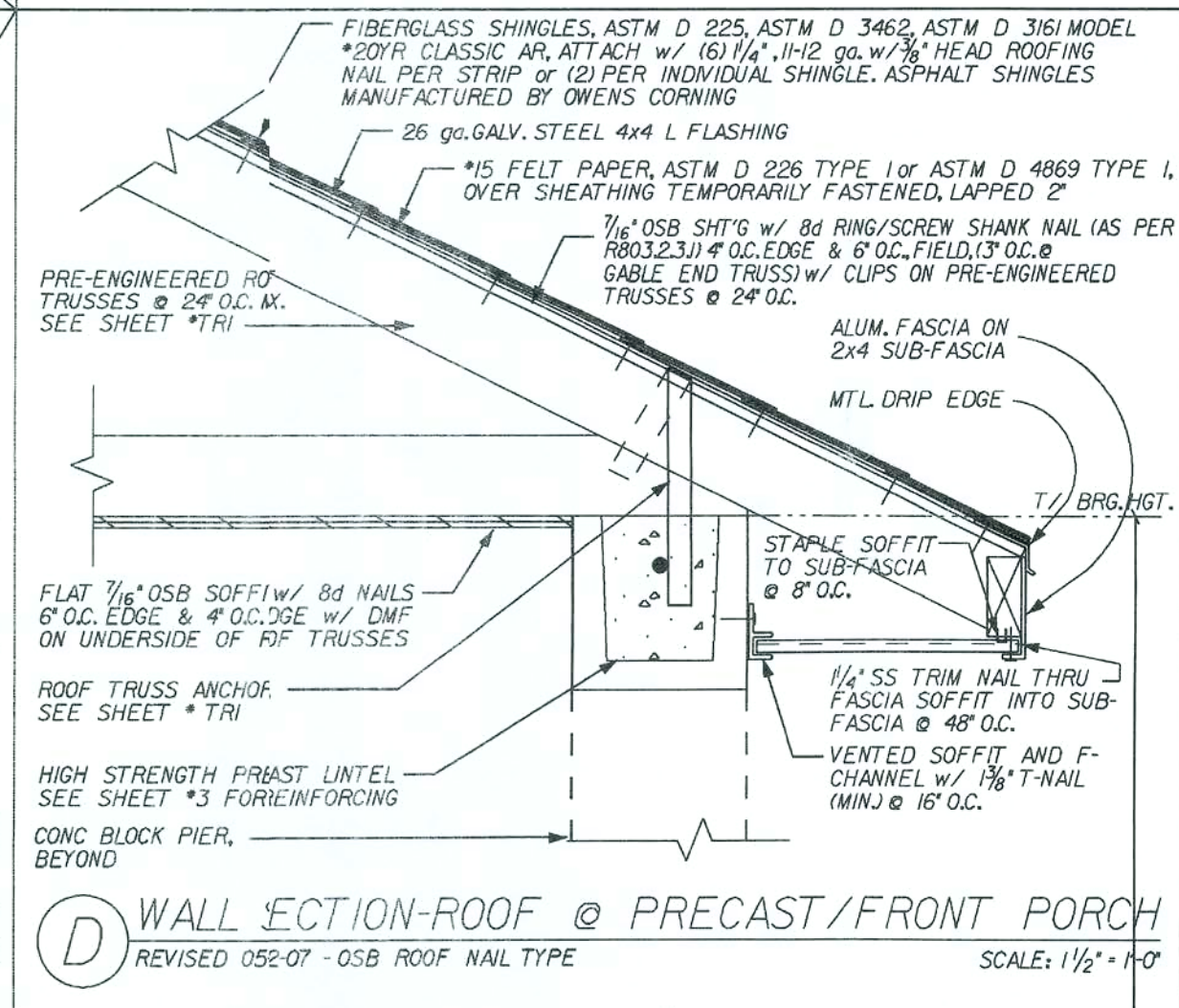
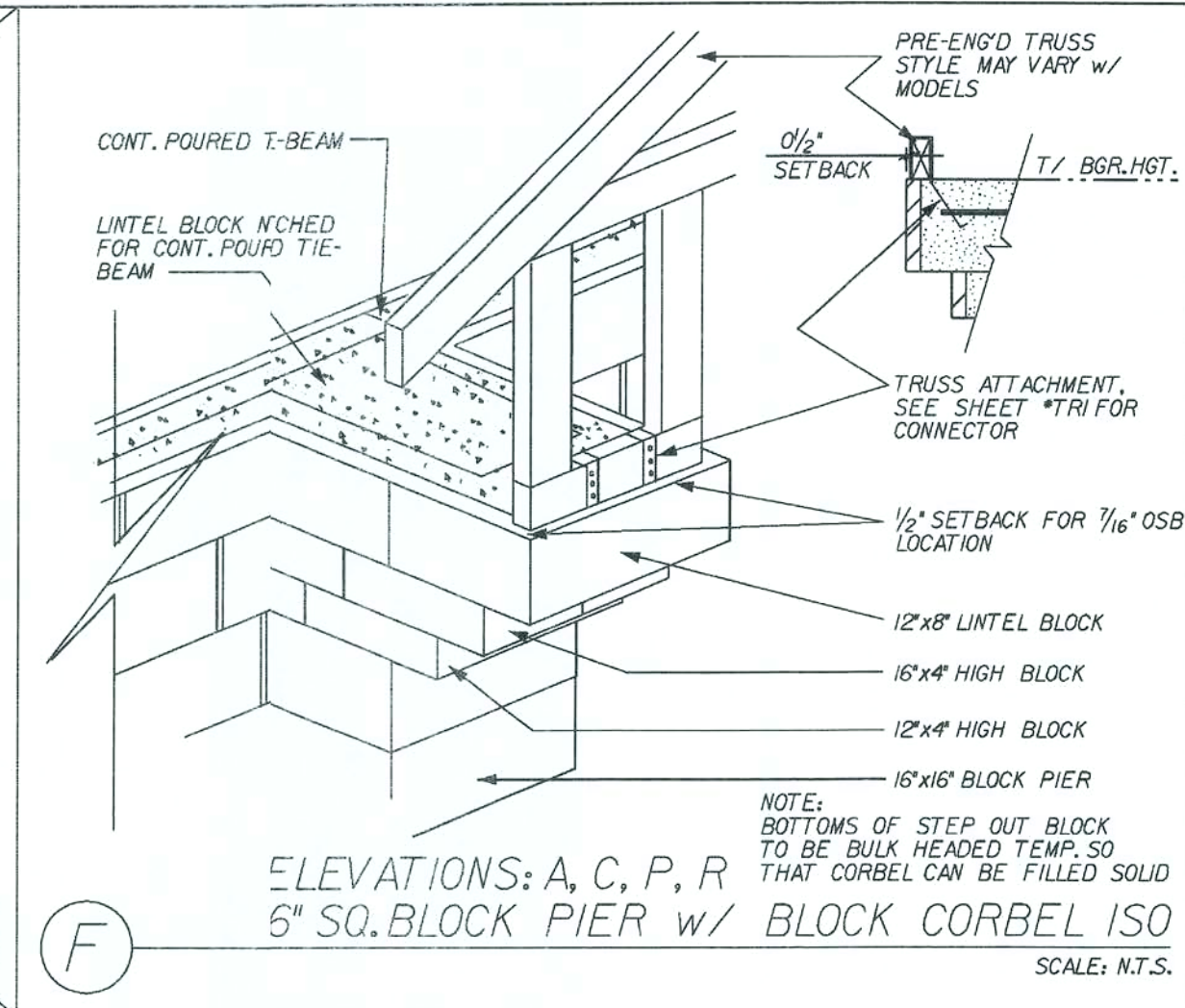
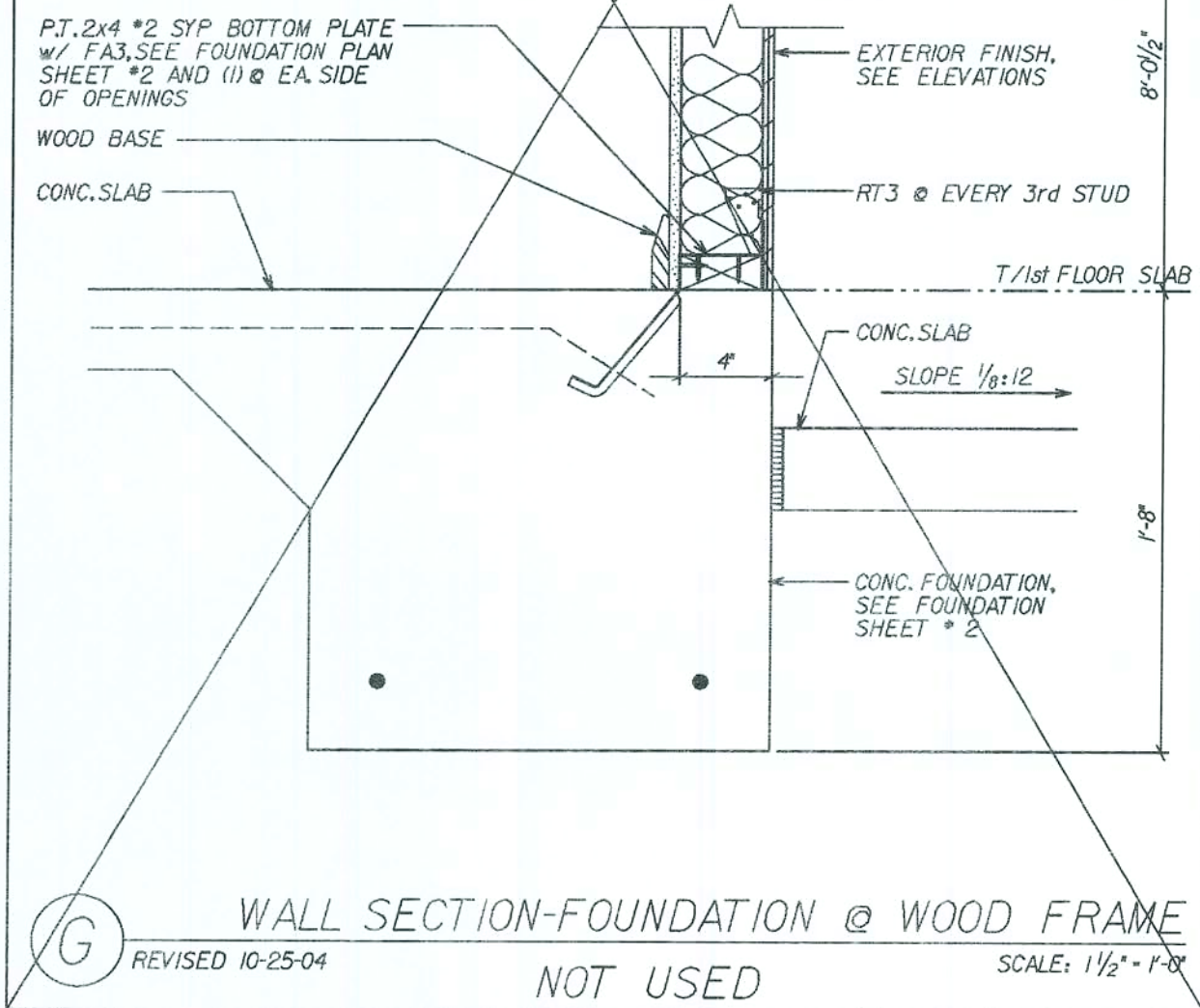
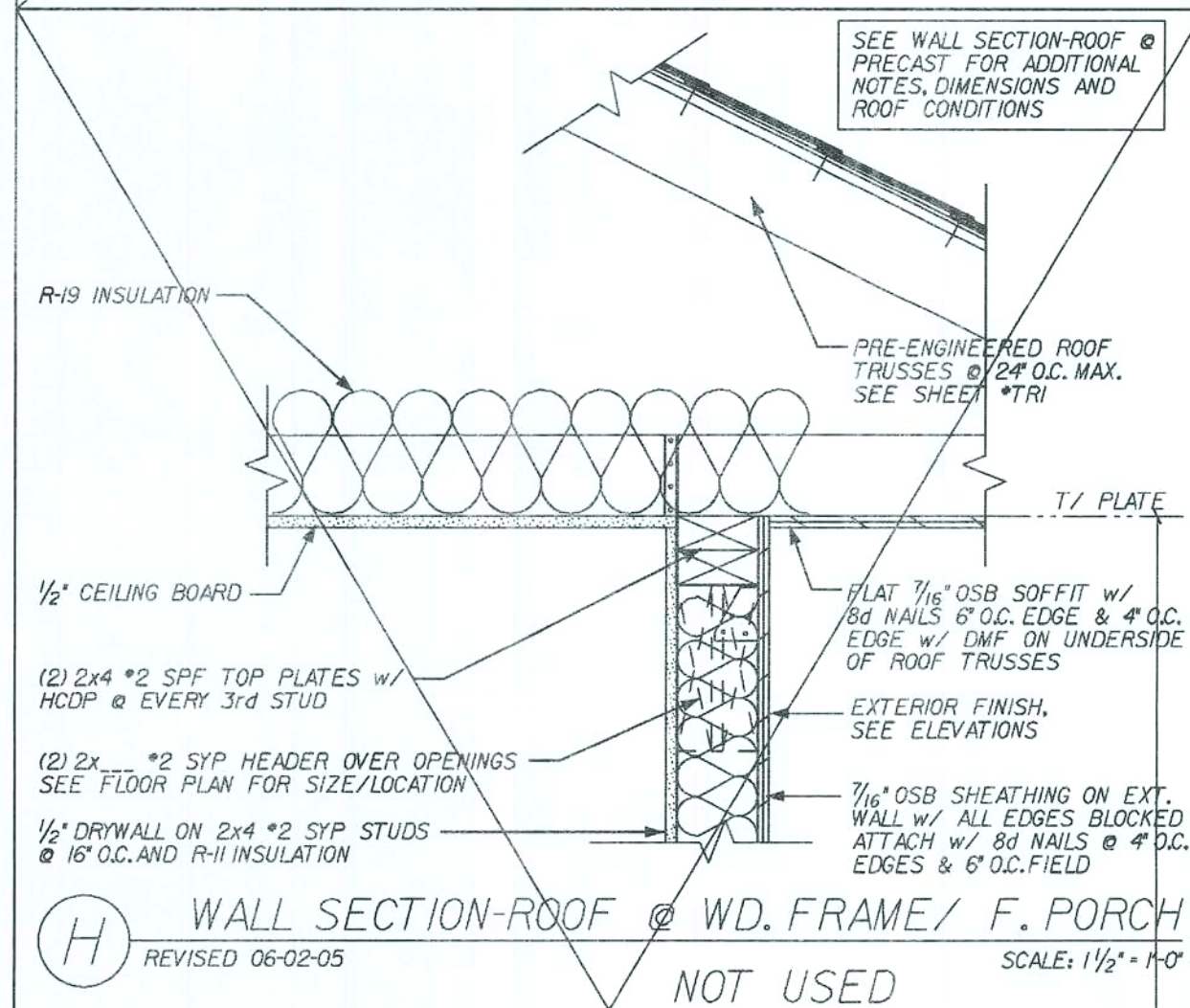
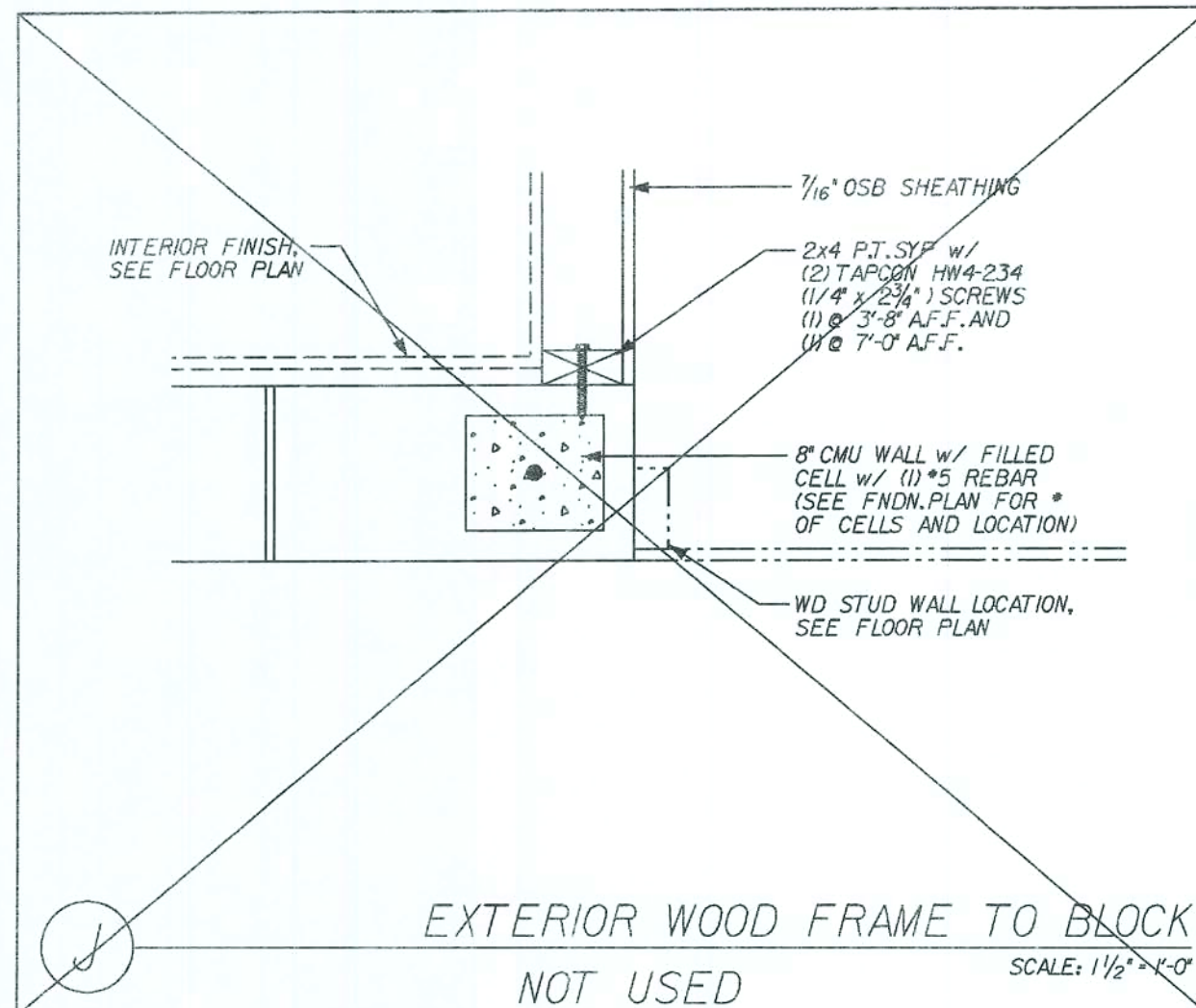
(407) 321-0064

FLORIDA

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

plumitem REPORT Thu Aug 12 10:48:36 2004 p:*fl*houses 05*austin4*plumbing*austin4p.plm

PLOT DATE: 04 DEC 2007



REVISIONS:	09-21-06	DETAIL F: ADDED ELEV. CALL-OUT

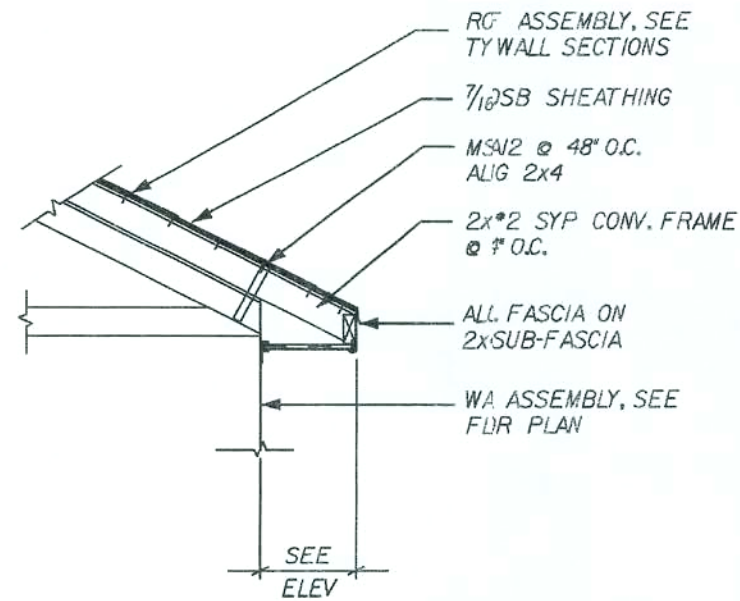
Maronda Homes
 4005 MARONDA WAY SANFORD, FLORIDA 32771
 (407) 321-0064
 THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE PERMANENT

ONE STORY WALL SECTIONS
AUSTIN 4
 DRAWN BY: GARAGE:
 RELEASE DATE: 10-18-04
 09/25/07

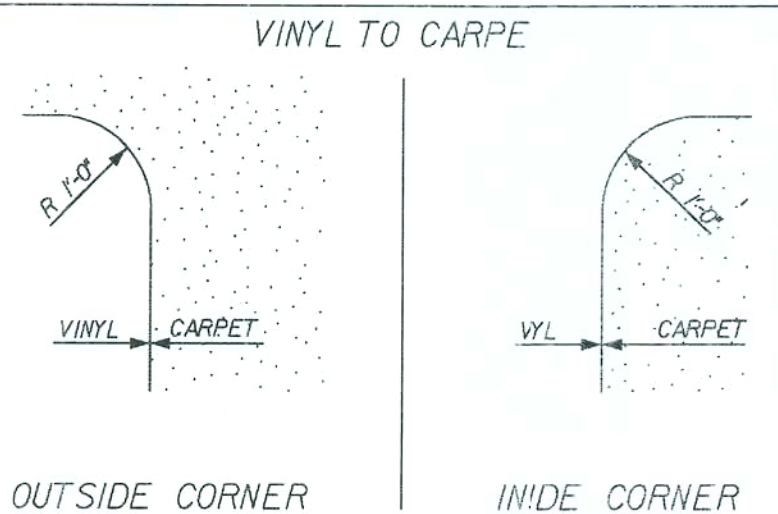
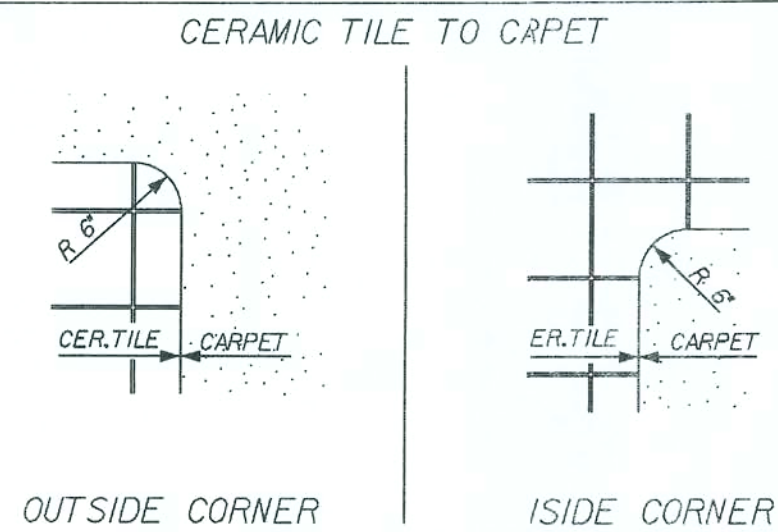
Maronda Systems
 4005 Maronda Way
 Sanford, FL 32771
 (407) 321-0064
 Elmer Bergman, P.E.
 License No. 50158
 MAY 15 2008

SHEET:
WS-B1

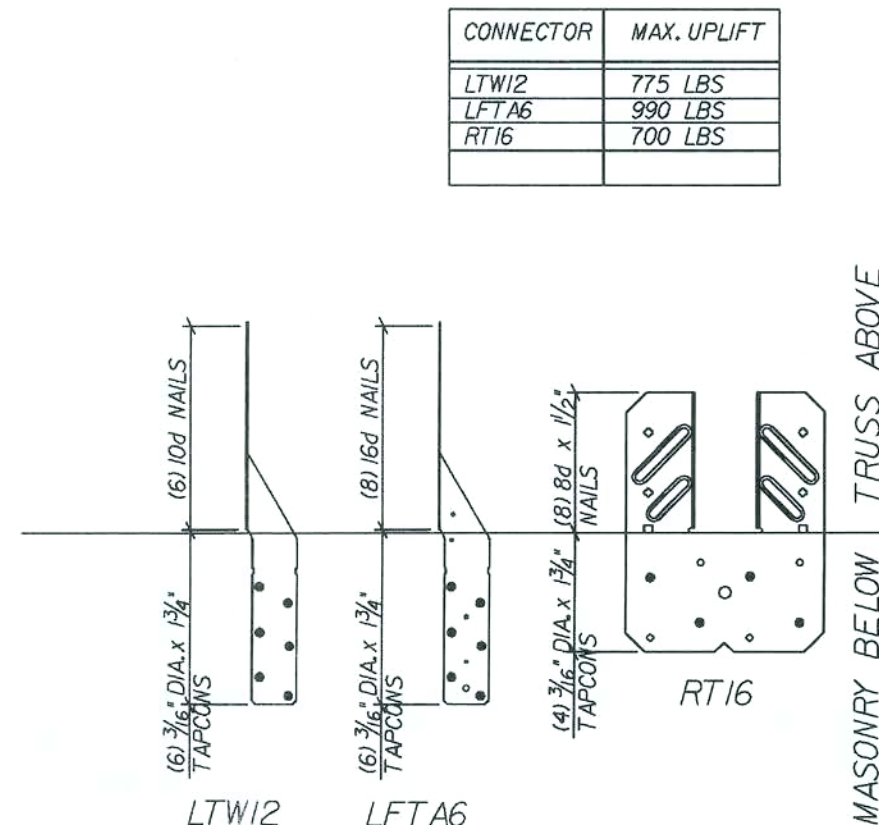
USP HARDWARE - 160%		REVISED 05-10-06	
PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1 1/2"	1000
FA3	USP	TOP (4) 10d X 1 1/2" SIDE (2) 10d X 1 1/2"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1 1/2" PLATE (10) 10d X 1 1/2"	800
HTA 20 ANCHOR	USP	(14) 10d X 1 1/2"	1615
HTA 20(2) ANCHOR	USP	(13) 10d X 1 1/2"	3230
HTW24	USP	(20) 10d	1325
HUGT2	USP	CONC. ANCH. BOLT (2) 3/4" - (2) 3/4" WASH 3 1/2" EMBED. - ALL GRDR. - (8) 10d	9790
HUGT3	USP	CONC. ANCH. BOLT (2) 3/4" - (2) 3/4" WASH 3 1/2" EMBED. - ALL GRDR. - (8) 10d	9860
JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
KST227 STRP ANC.	USP	(34) 16d	4750
LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d X 1 1/2"	1250
LSTA36	USP	(22) 10d X 1 1/2"	1640
LTW12	USP	(12) 10d	670
LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3/4" EMBED. (10) 10d X 1 1/2" STRAP	1890
LBP12 BEARING PLT	USP	1/2" J-BOLT	2515
LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1035
MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
MPA1 & MPA1F	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
MSTA12	USP	(10) 10d	1015
MSTA18	USP	(14) 10d	1420
MSTA24	USP	(18) 10d	1640
MSTA30	USP	(22) 10d	2065
MTW12	USP	(14) 10d	1030
MTW18	USP	(14) 10d	1030
MTS27B STRP ANC	USP	(24) 16d (1) 3/4" ANCHOR BOLT 3 1/2" EMBEDDED	4635
MUGT15	USP	(22) 10d (1) 3/4" ANCHOR BOLT 3 1/2" EMBEDDED	4165
NP37 3/8 X 7	USP	HEADER (6) 16d TOP OF BOT. SEC. (6) 10d X 1 1/2"	
PA 28	USP	(15) 16d	3360
RT-16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1 1/2"	1030
RT-16A	USP	TRUSS (9) 10d X 1 1/2" PLATE (8) 10d	1380
RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1 1/2"	1160
RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
RT3 CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	530
SKH 26 L/R	USP	HEADER (6) 16d JACK (6) 10d X 1 1/2"	1085
SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1 1/2"	2190
SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1 1/2"	725
SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1 1/2"	800
TA12 TA12/METAL	USP	(5) #10 SCREWS (9) #10 SCREWS	825 910
TA 14	USP	(7) 10d X 1 1/2"	920
TA 18	USP	(8) 10d X 1 1/2"	1205
(2)TA 18	USP	(8) 10d X 1 1/2" 1-PLY (8) 10d X 1 1/2" 2-PLY	2410 2410
TA 24	USP	(8) 10d X 1 1/2"	1205
(2)TA 24	USP	(8) 10d X 1 1/2" 1-PLY (8) 10d X 1 1/2" 2-PLY	2410 2410
THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1 1/2"	2170
THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2330
THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2485
THD28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1 1/2"	2665
THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2485
THJ 26	CLEVELAND	HIP (7) 10d-HEADER (16) 16d JACK (5) 10d X 1 1/2"	1010
USC63	USP	TRUSS (8) 10d (4) 3/4" EXP. BOLTS #6170 2 3/4" EMBEDDED	11150
USC3F	USP	TRUSS (8) 10d (4) 3/4" EXP. BOLTS #6170 2 3/4" EMBEDDED	11150
USC73	USP	TRUSS (8) 16d (4) 3/4" EXP. BOLTS #6170 2 3/4" EMBEDDED	11150
UGTS63	USP	TRUSS (8) 16d (2) 3/4" ANCH. BOLTS 2 3/4" EMBEDDED	6170



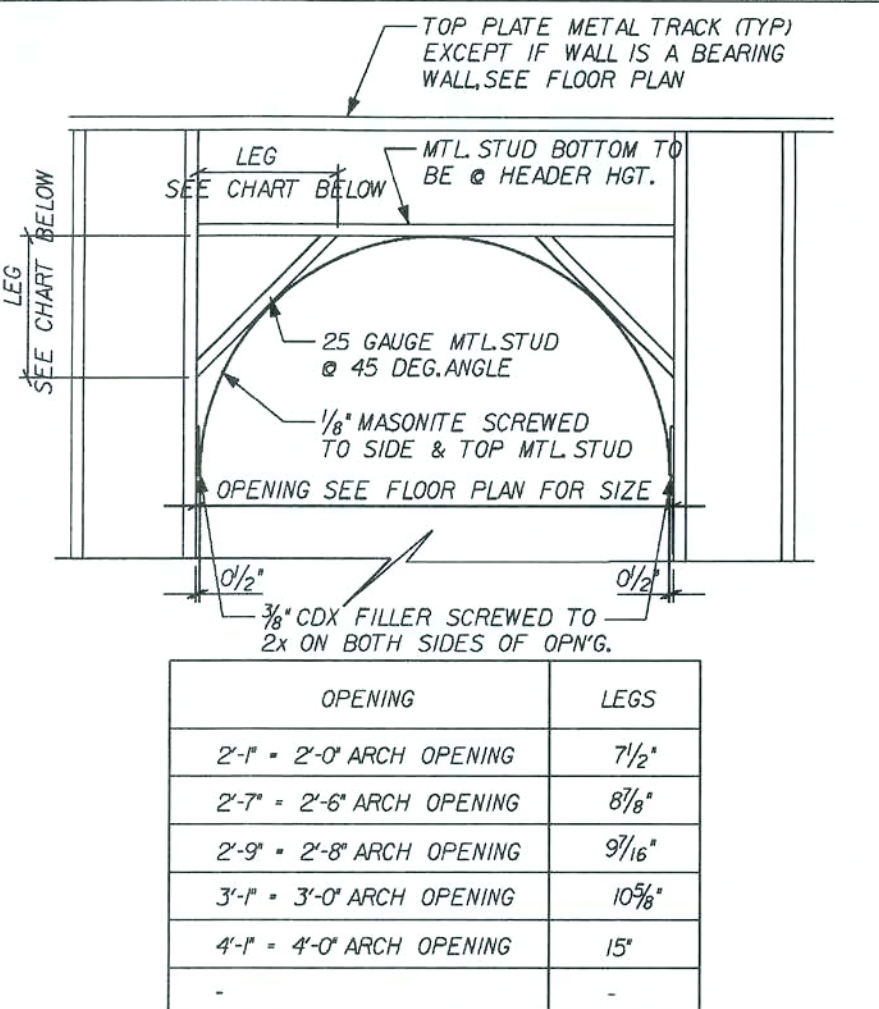
CONV. FRAMED HIP ROOF
SCALE: 1/2" = 1'-0"



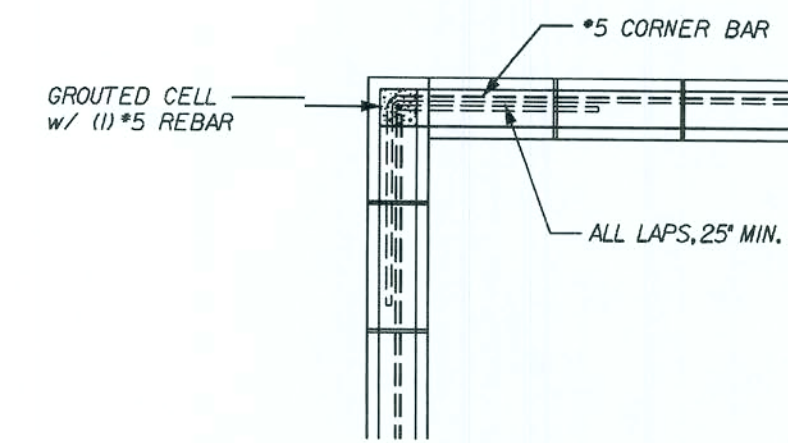
FLOOR EDGE CORNER DETAIL
SCALE: 1/2" = 1'-0"



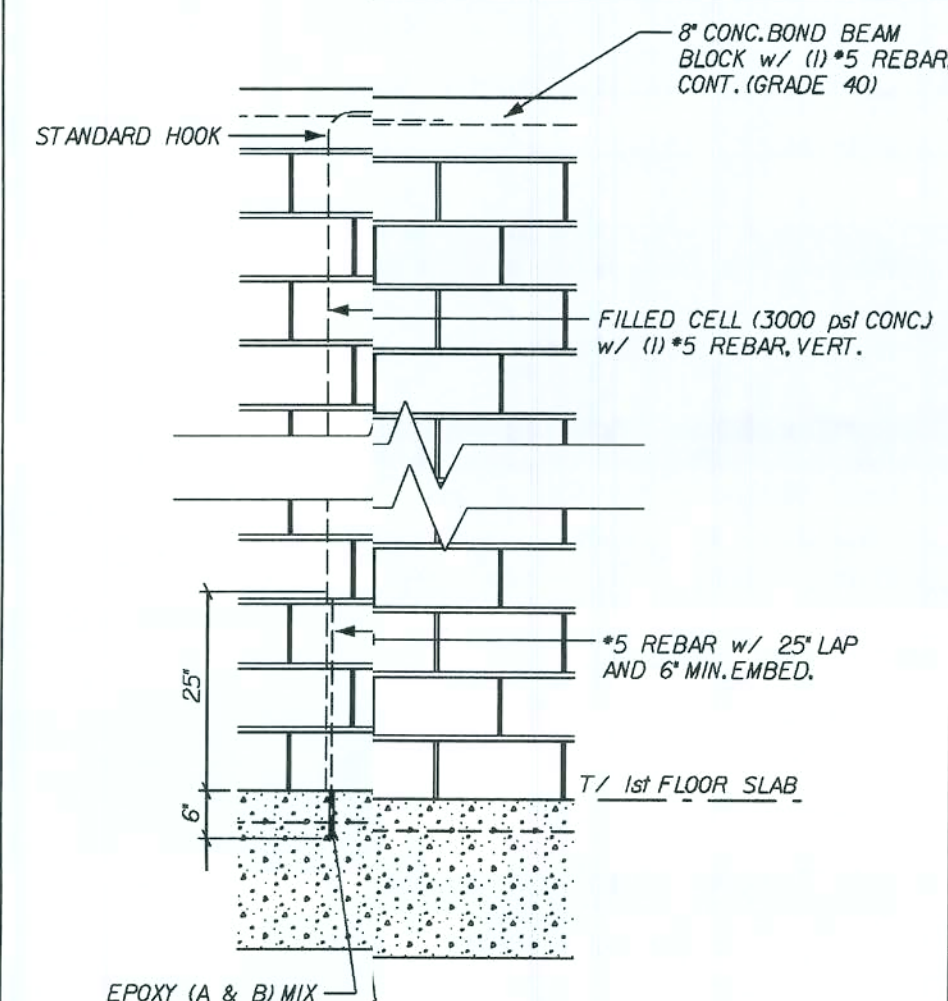
ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR
SCALE: N.T.S.



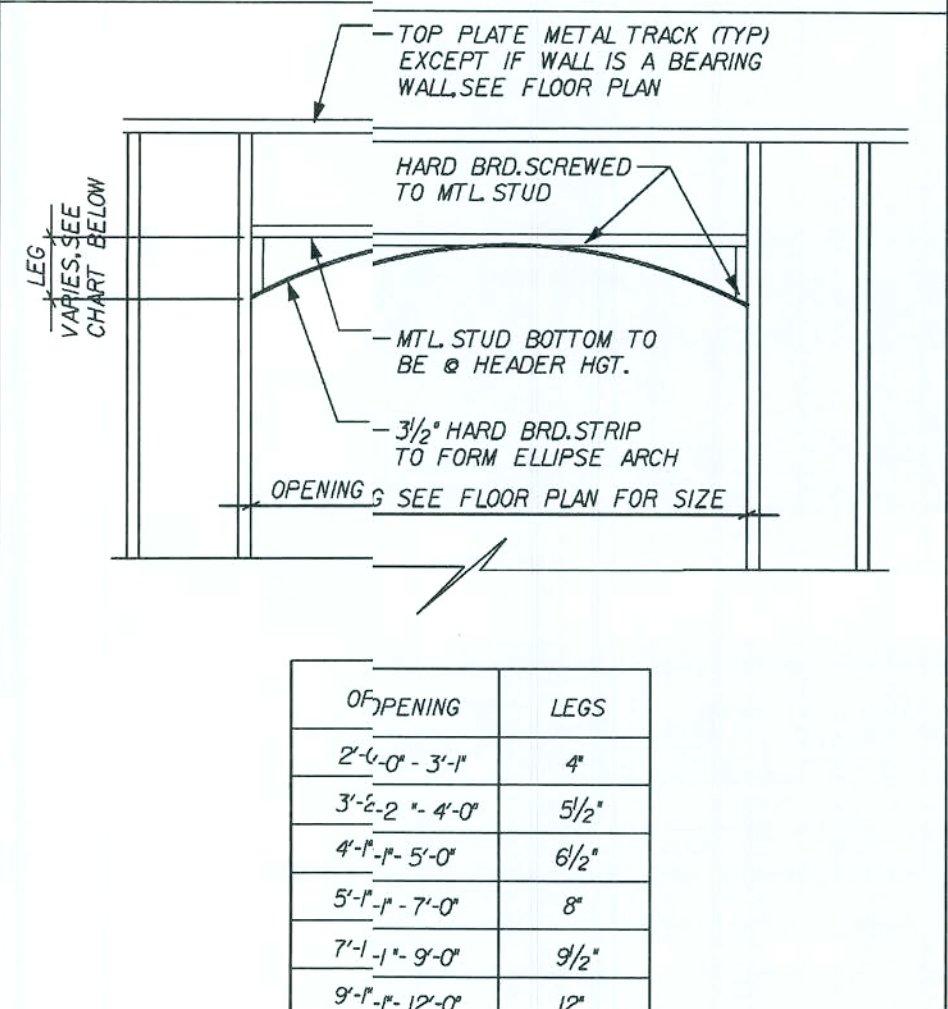
INTERIOR CURVED ARCH
SCALE: 1/2" = 1'-0"



TYPICAL BOND BEAM @ CORNER
REVISED 04-22-05
SCALE: 1/2" = 1'-0"



MISSED DOWN ROD REPAIR
SCALE: 1/2" = 1'-0"



INTERIOR ELLIPSE ARCH
SCALE: 1/2" = 1'-0"

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4005 MARONDA WAY
SANFORD, FL 32771
(407) 321-0064

REVISED: 03-22-06 ADDED CONV. ROOF DETAIL

STANDARD DETAILS

AUSTIN 4

DRAWN BY: GARAGE: RELEASE DATE: 10-18-04

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407) 321-0064

Elmer Bergman, P.E.
License No. 50158
MAY 15 2008

SHEET:

SDI

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

PLOT DATE: 04 DEC 2007

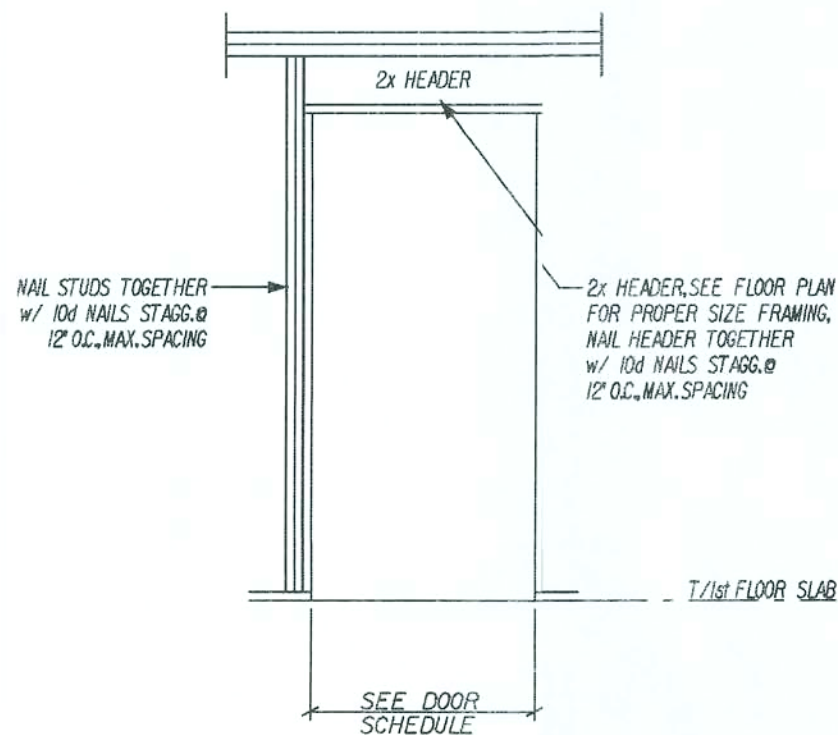
REVISED 02-15-07
83 1/4" -> 82 1/2"

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD I.S.	25 1/2" x 80 5/8"	26" x 80 7/8"	29" x 82 3/8"
2-8 STANDARD I.S.	33 1/2" x 80 5/8"	34" x 80 7/8"	37" x 82 3/8"
2-10 STANDARD I.S.	35 1/2" x 80 5/8"	36" x 80 7/8"	39" x 82 3/8"
3-0 STANDARD I.S.	37 1/2" x 82"	38" x 82 1/4"	41" x 82 3/8"
3-0 w/SIDE LIGHT I.S.	51 1/8" x 82"	51 5/8" x 82 1/4"	54 5/8" x 82 3/8"
3-0 w/1/2 SIDE LIGHT I.S.	64 1/2" x 82"	65" x 82 1/4"	68" x 82 3/8"
5-8 (2/2-10) FRENCH I.S.	70 1/2" x 80 5/8"	71" x 80 7/8"	74" x 82 3/8"

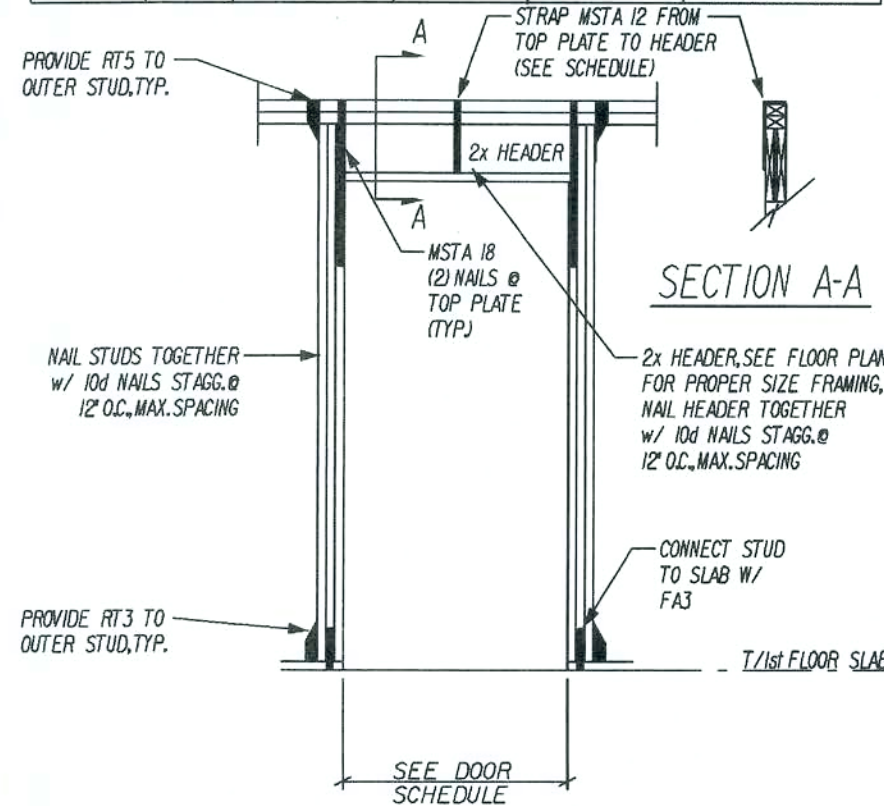
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE 1/4" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE 1/2" FOR WIDTH
** O.S. = OUTSWING
** I.S. = INSWING

MAX. OPNG SIZE	JACKS @ EA. END	HEADER SIZE	STUDS @ EA. END 8'-0" MAX. HGT.	S/S @ EA. END 10'-0" MAX. HGT.
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2
3'-3"	(1)		2	2
6'-3"	(1)		2	3

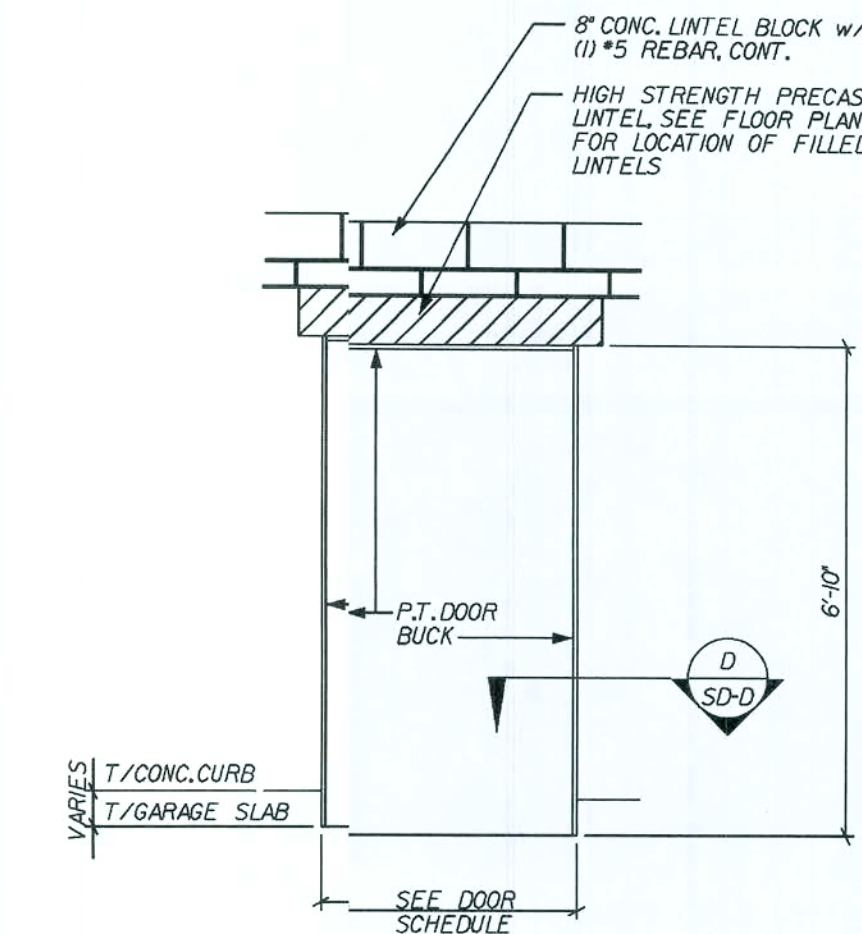


(K) STD. DOOR - WD FRME, NO-UPLIFT
SCALE: N.T.S.

MAX. OPNG SIZE	JACKS @ EA. END	HEADER SIZE	STUDS @ EA. END 8'-0" MAX. HGT.	STUDS @ EA. END 10'-0" MAX. HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		2	2	(1) @ CEN. OF HDR.
6'-3"	(1)		2	3	(1) @ 2'-0" OFF EA. END OF HDR.

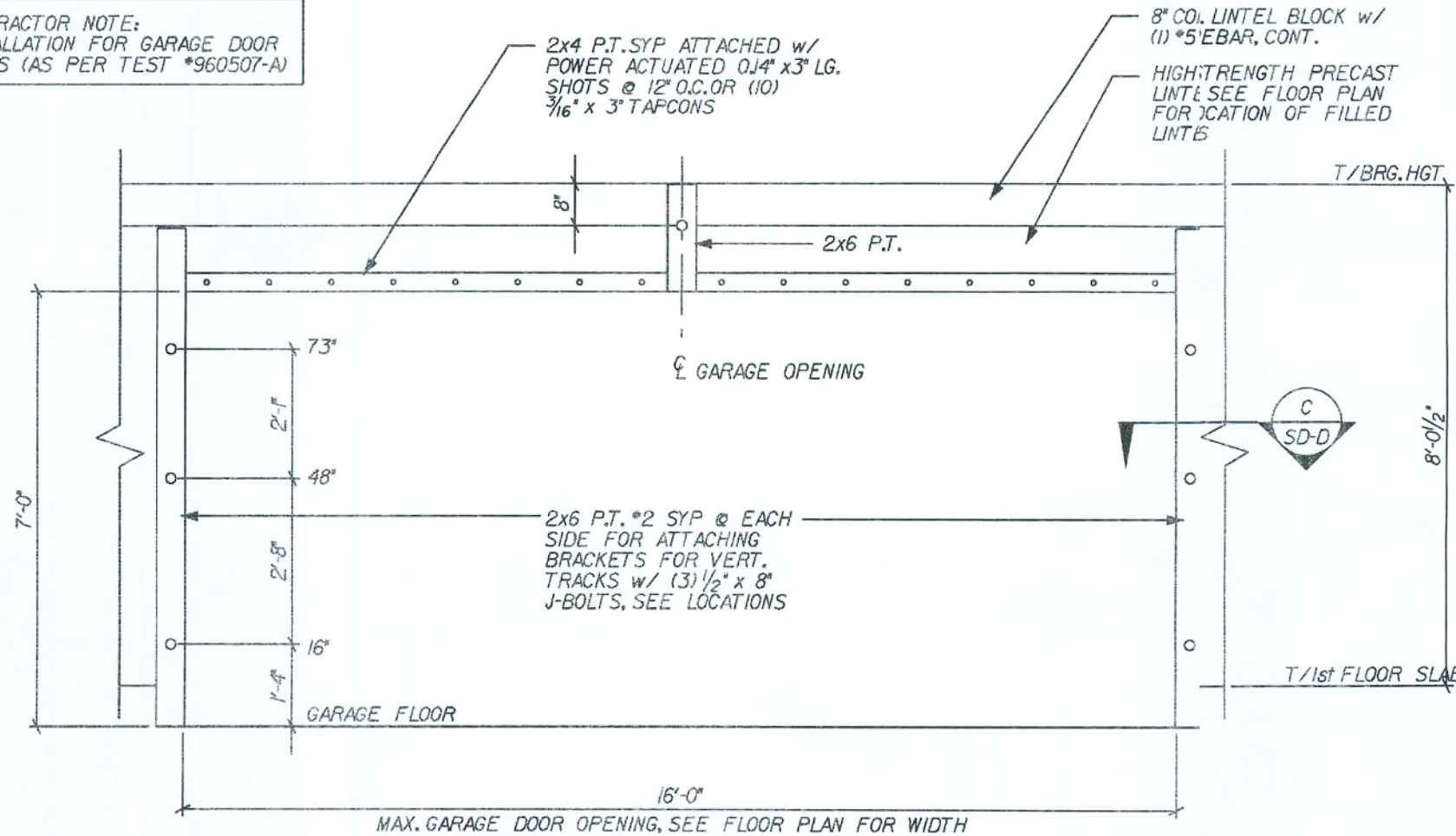


(J) STD. DOOR - WD FRAME, UPLIFT
SCALE: N.T.S.

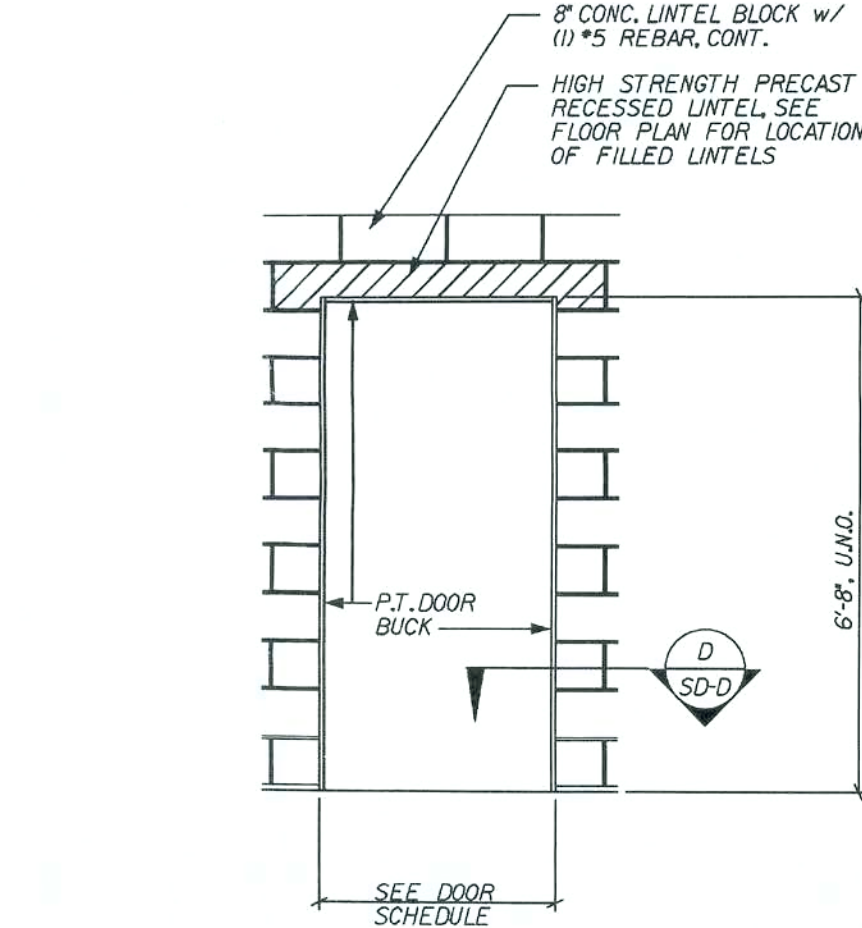


(H) OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: 3/8" = 1'-0"

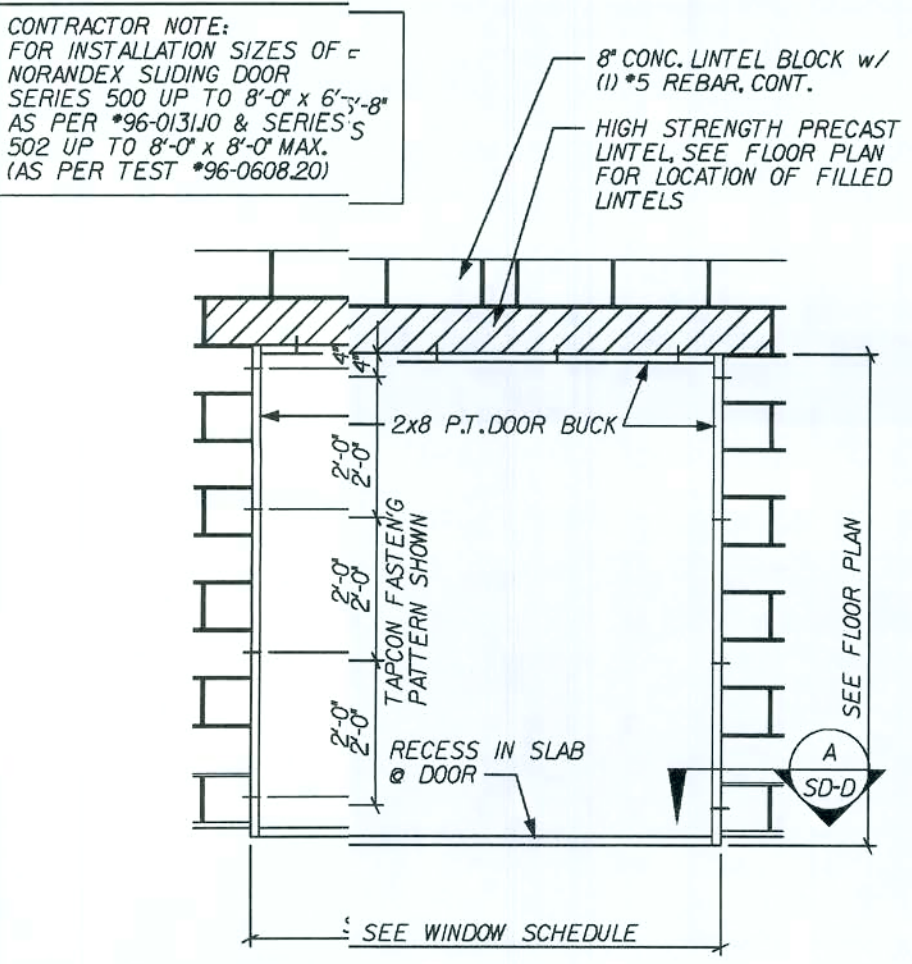
CONTRACTOR NOTE:
INSTALLATION FOR GARAGE DOOR
TYPES (AS PER TEST *960507-A)



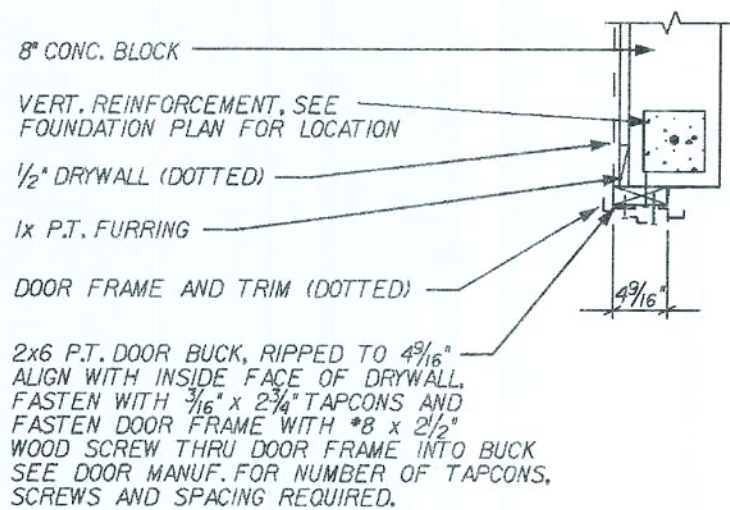
(G) GARAGE DOOR ELEVATION
SCALE: 3/8" = 1'-0"



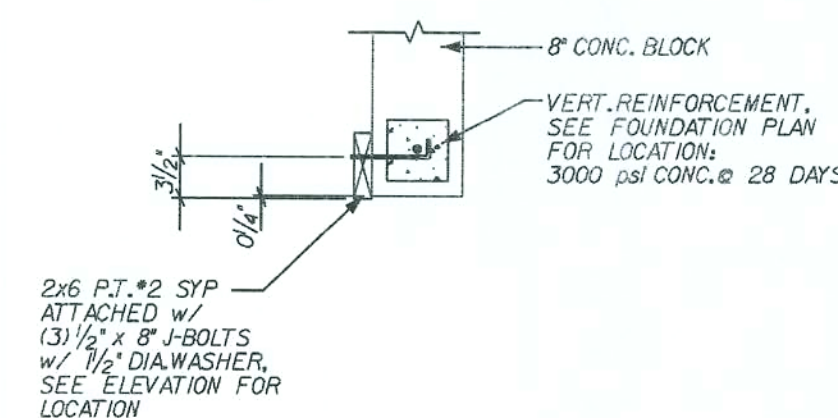
(F) STANDARD DOOR ELEVATION
SCALE: 3/8" = 1'-0"



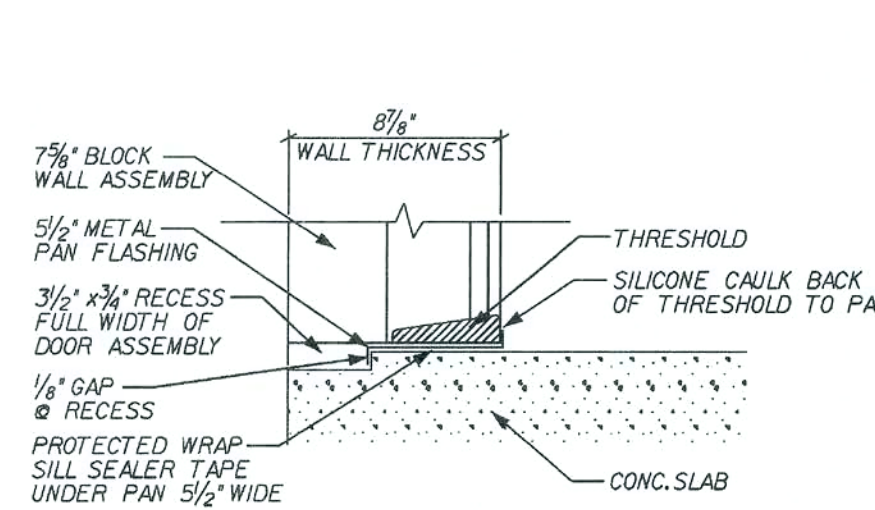
(E) SLIDING GLASS DOOR ELEVATION
SCALE: 3/8" = 1'-0"



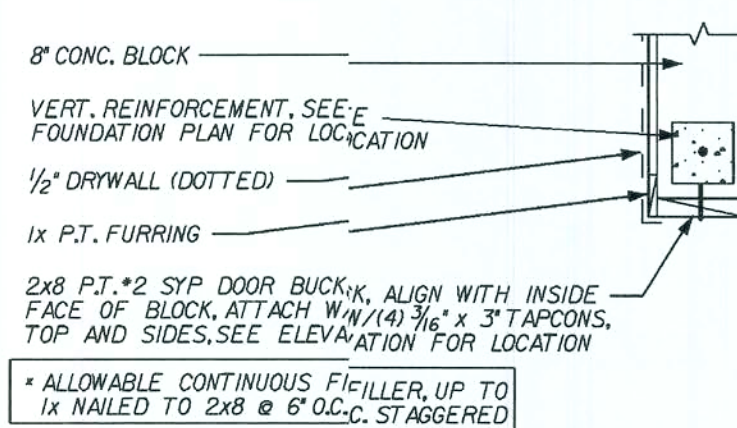
(D) 2x DOOR BUCK DETAIL
SCALE: 3/4" = 1'-0"



(C) GARAGE DOOR BUCK DETAIL
SCALE: 3/4" = 1'-0"



(B) DOOR PAN FLASHING
REVISED 06-08-06
NEW DETAIL
SCALE: 3/4" = 1'-0"



(A) SLIDING GLASS DOOR BUCK DETAIL
REVISED 10-21-04
SCALE: 3/4" = 1'-0"

REVISIONS:	06-20-06 ADDED DOOR PAN DETAIL
------------	--------------------------------

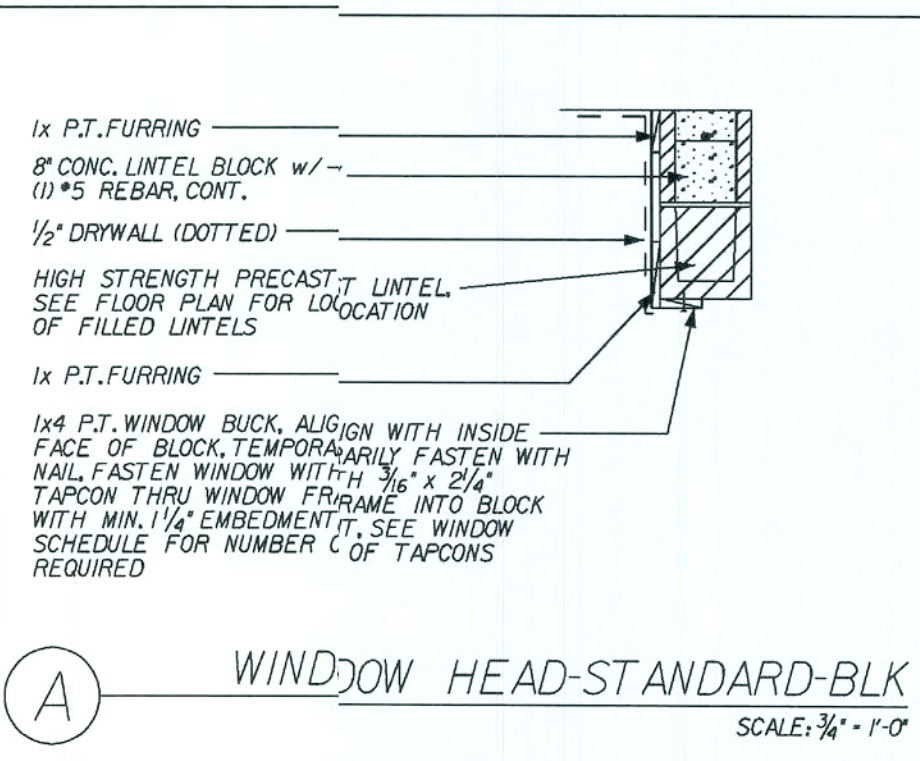
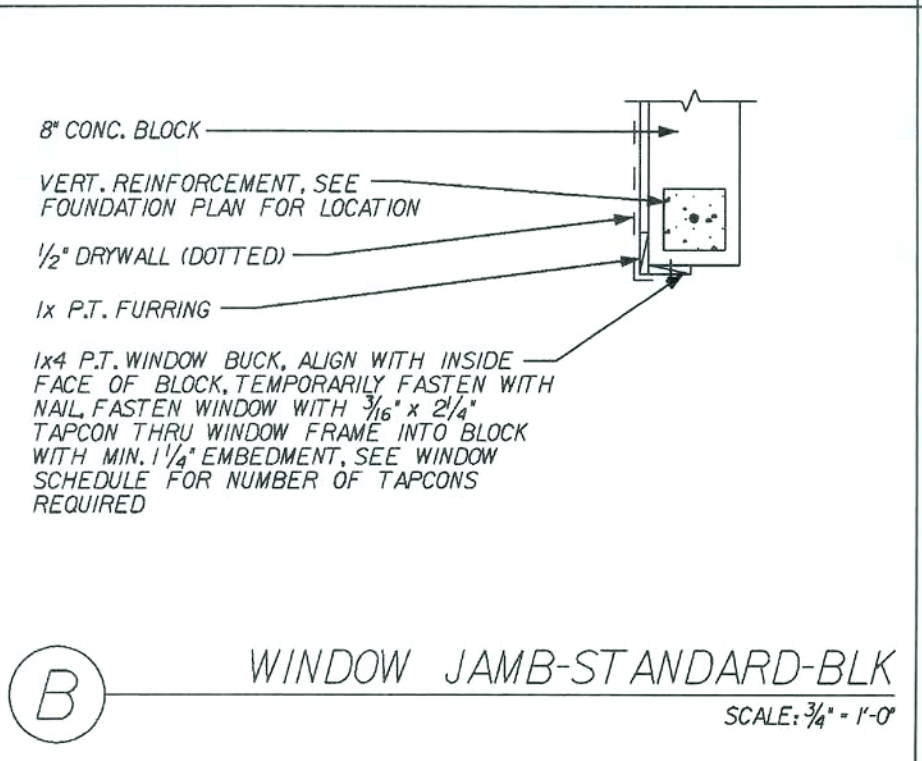
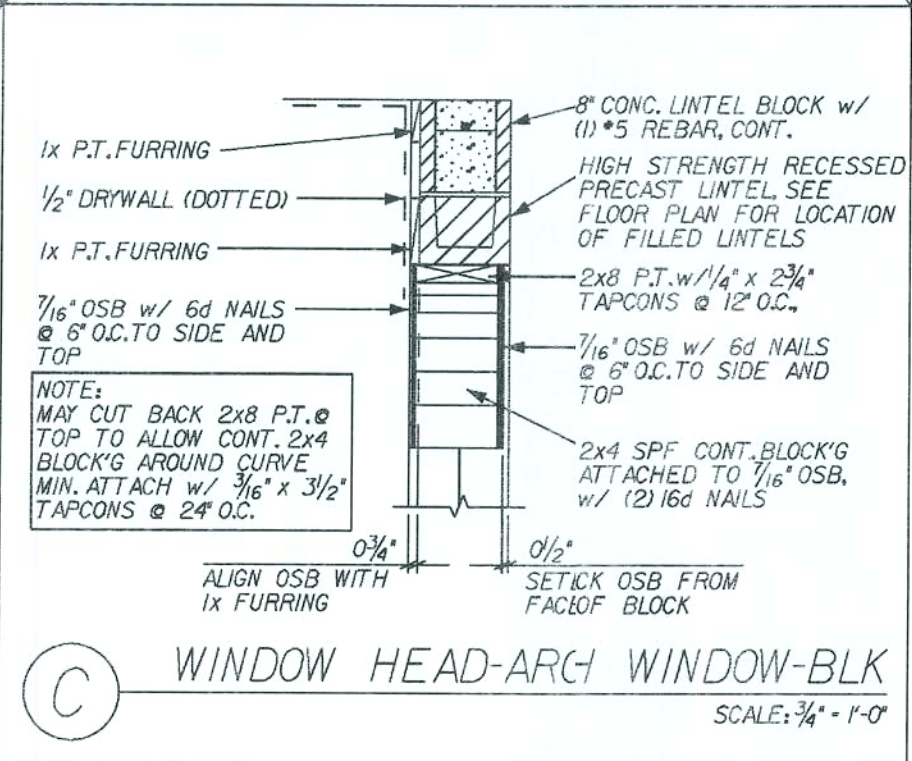
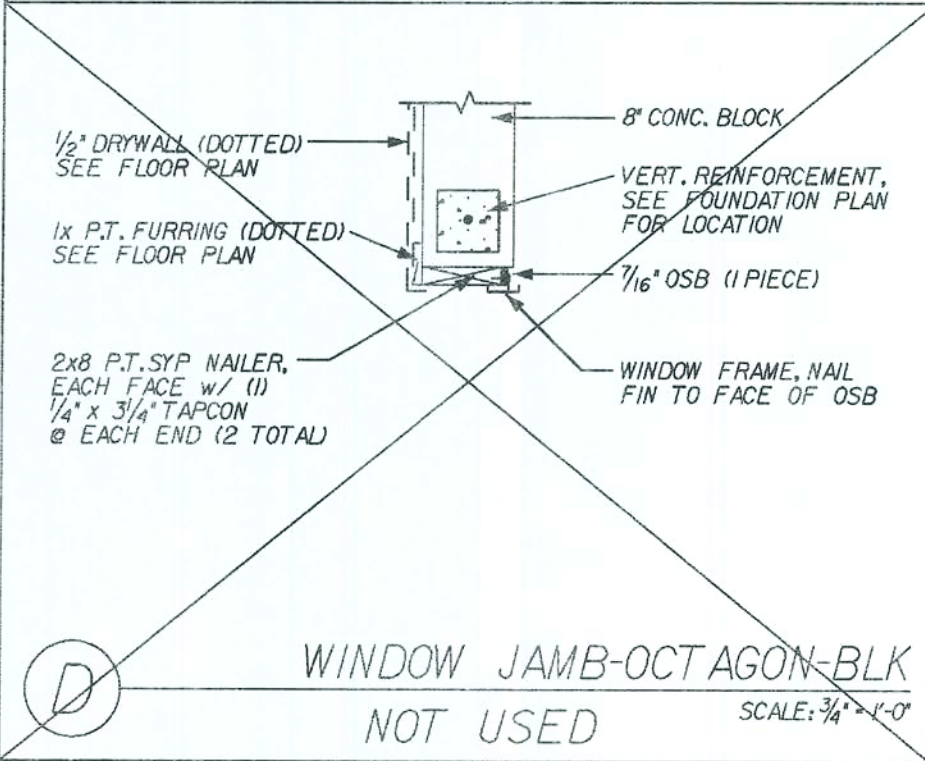
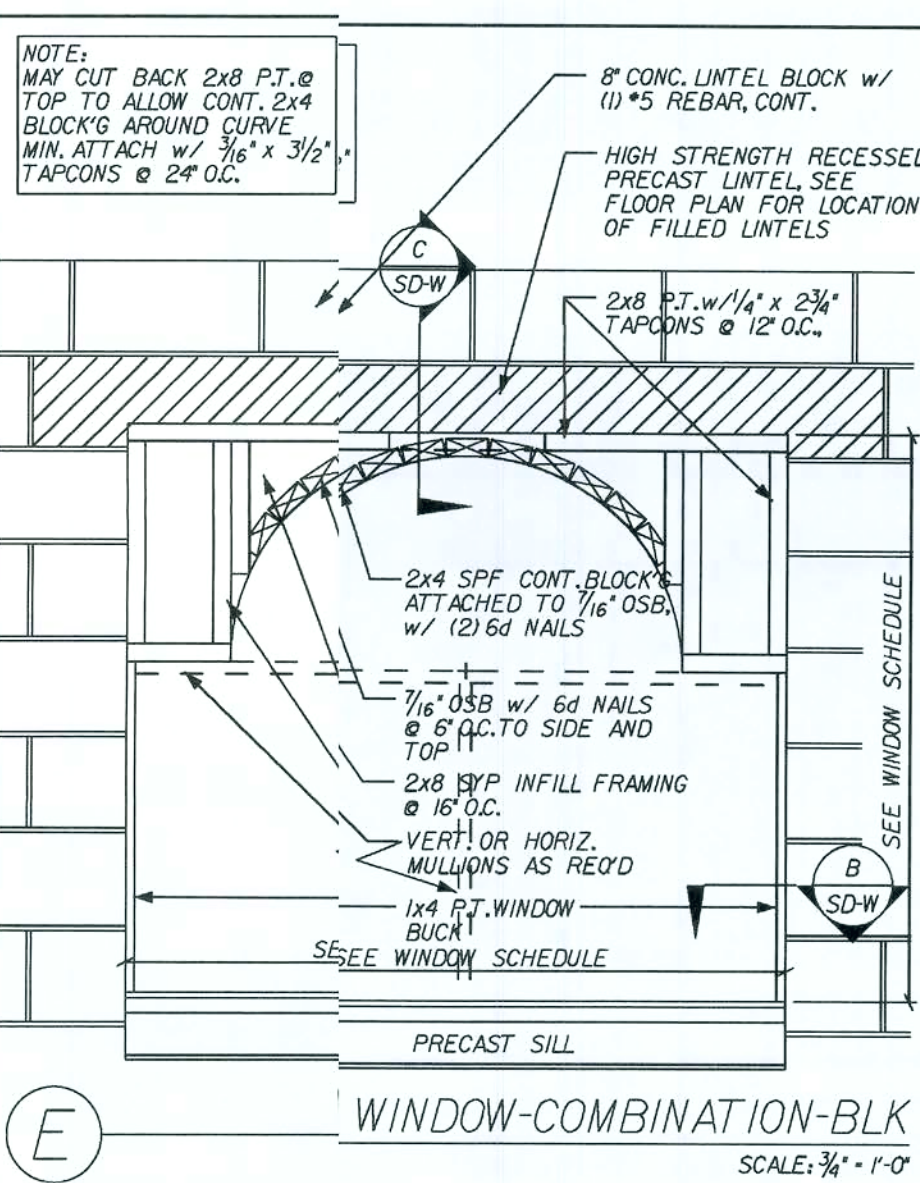
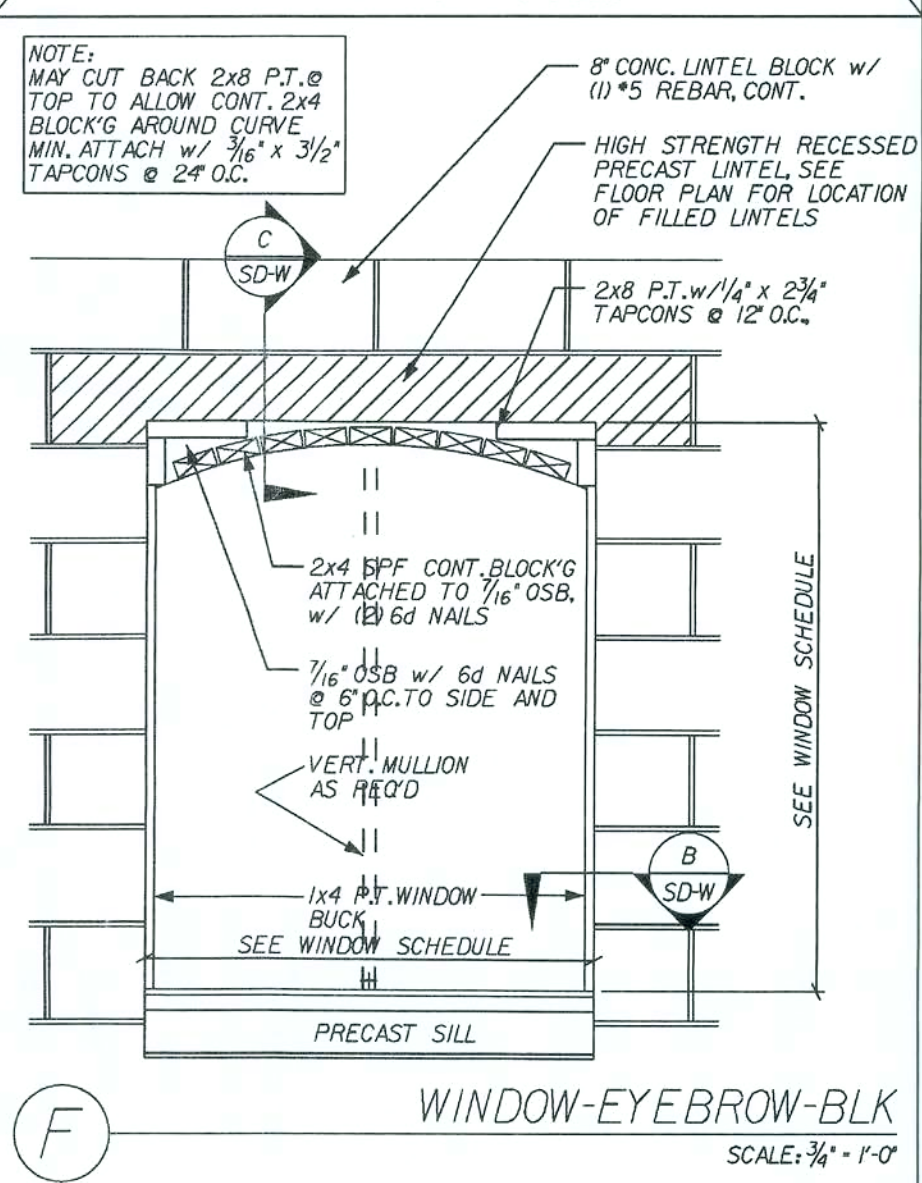
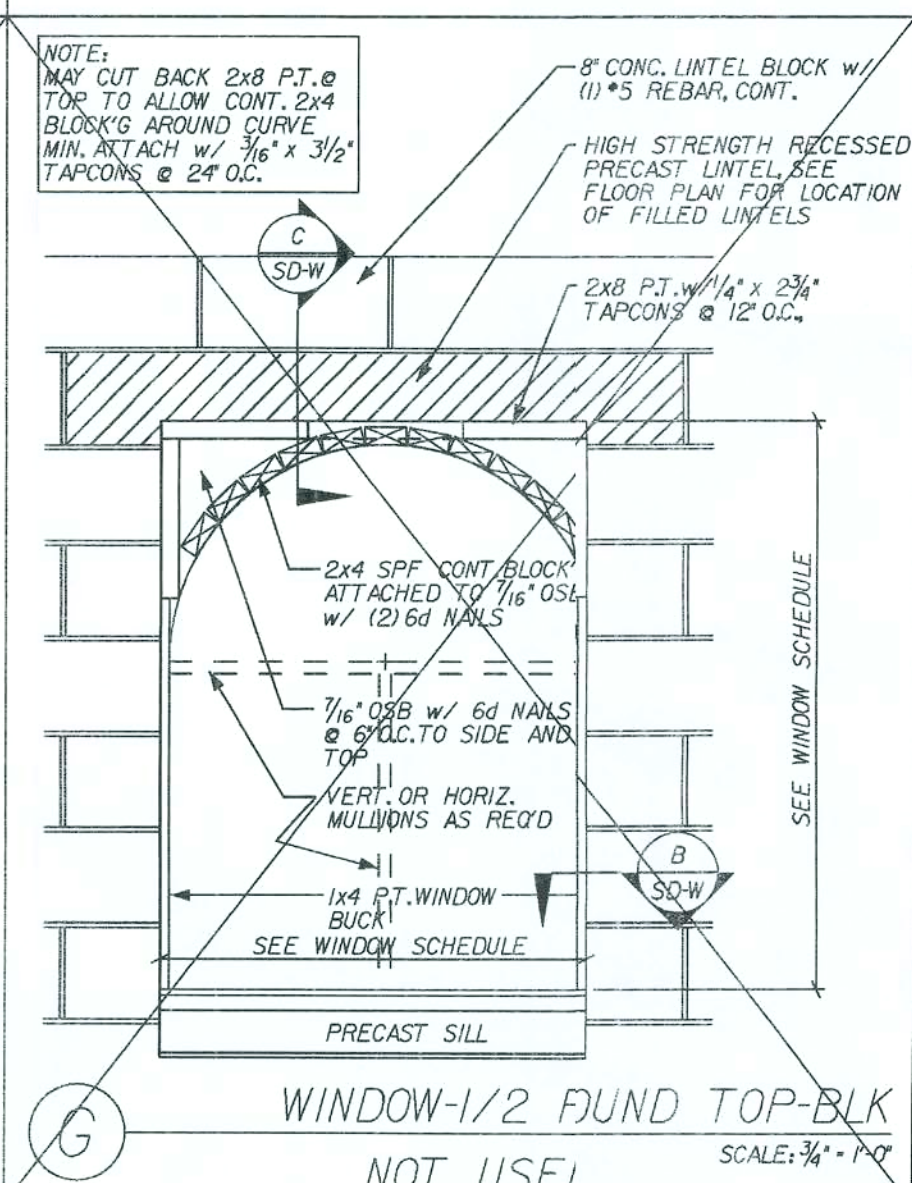
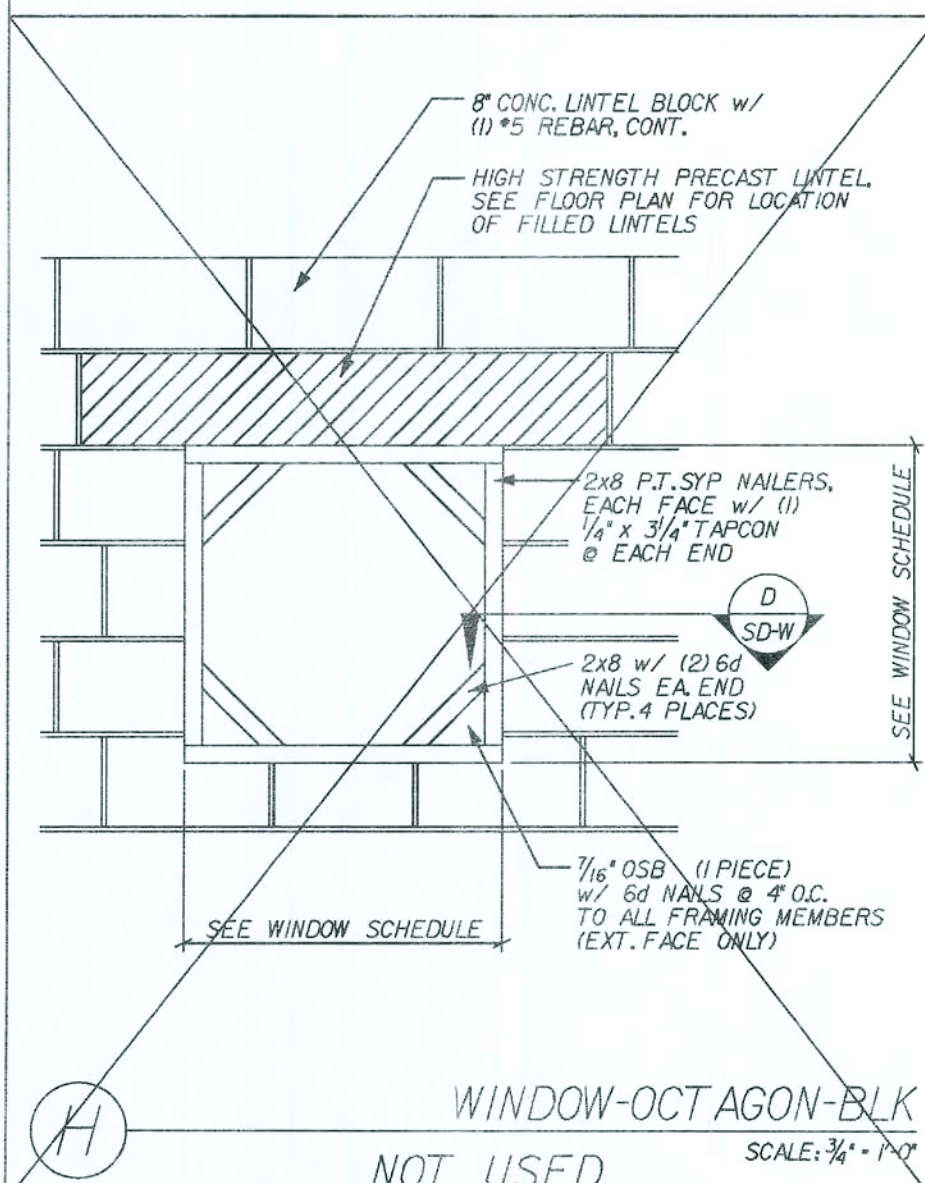
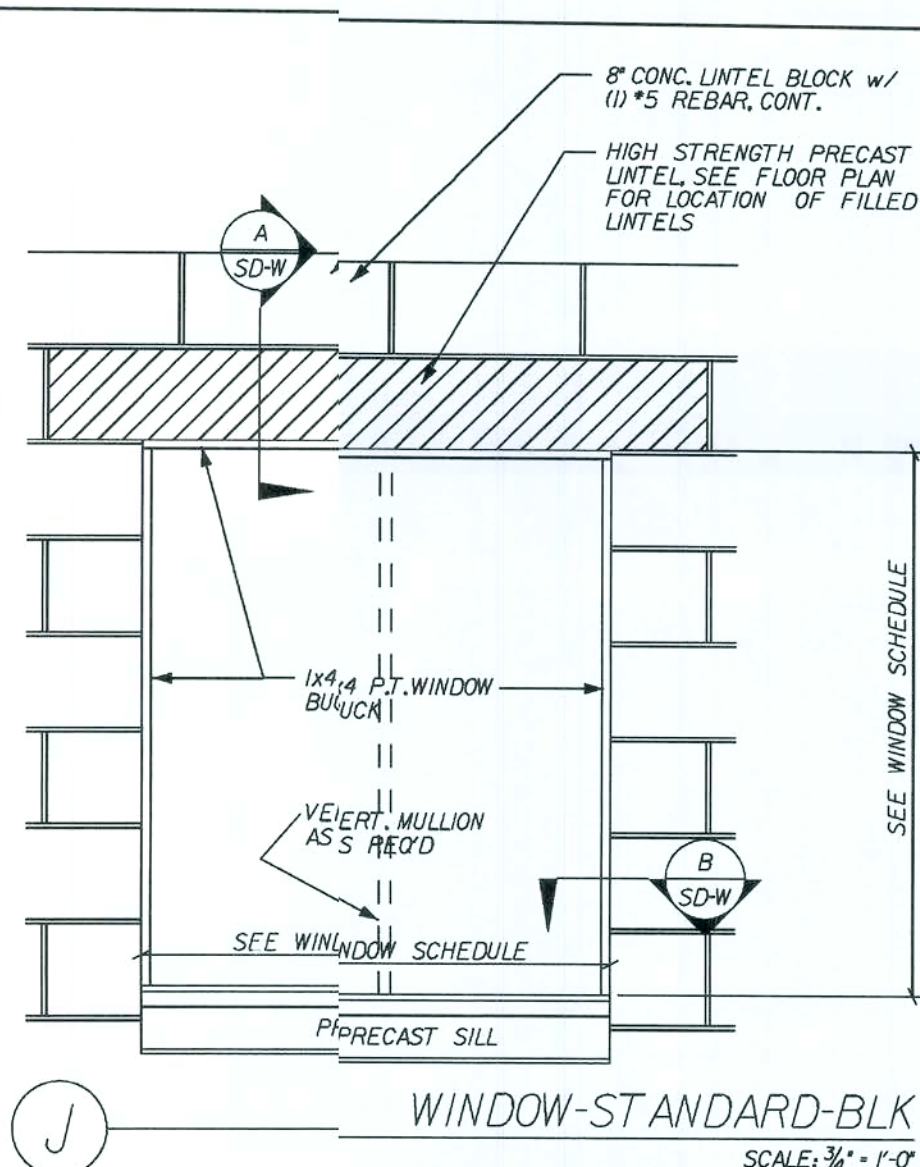
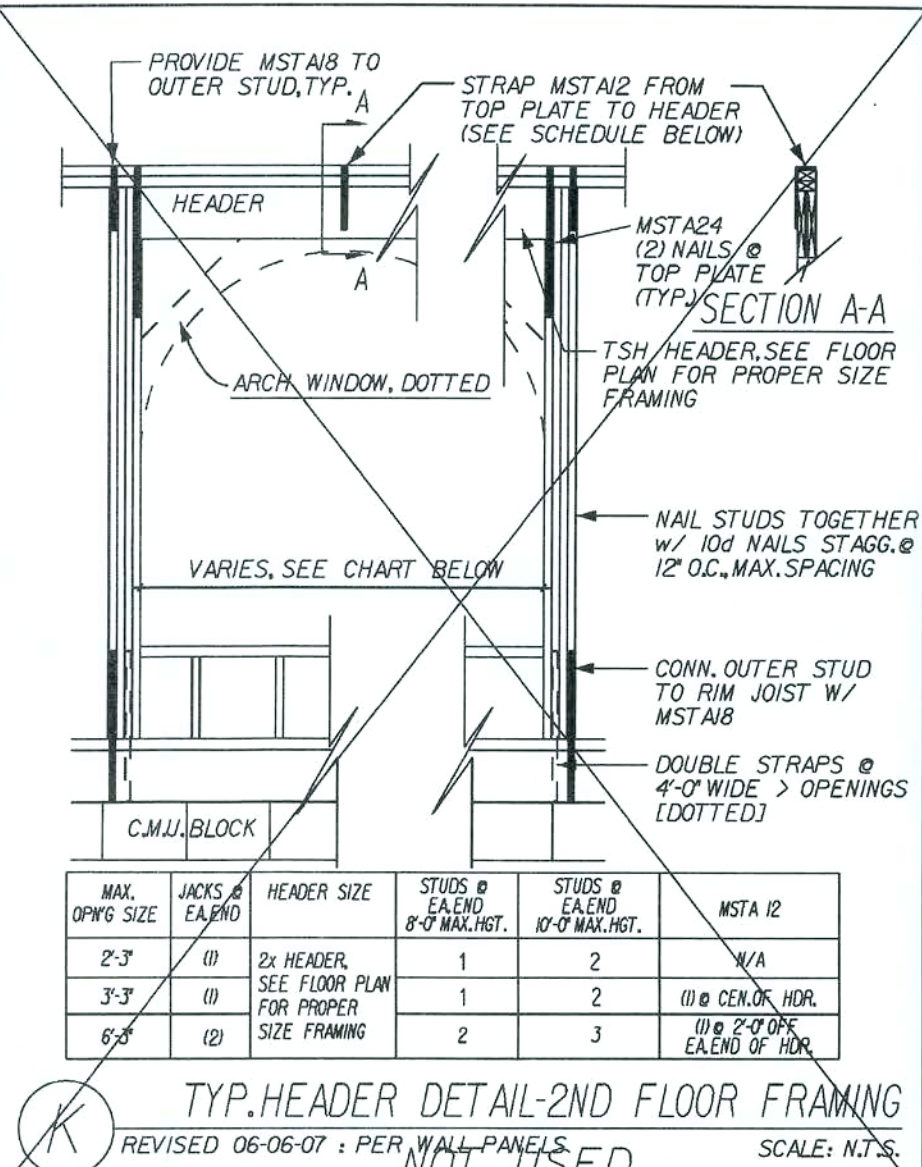
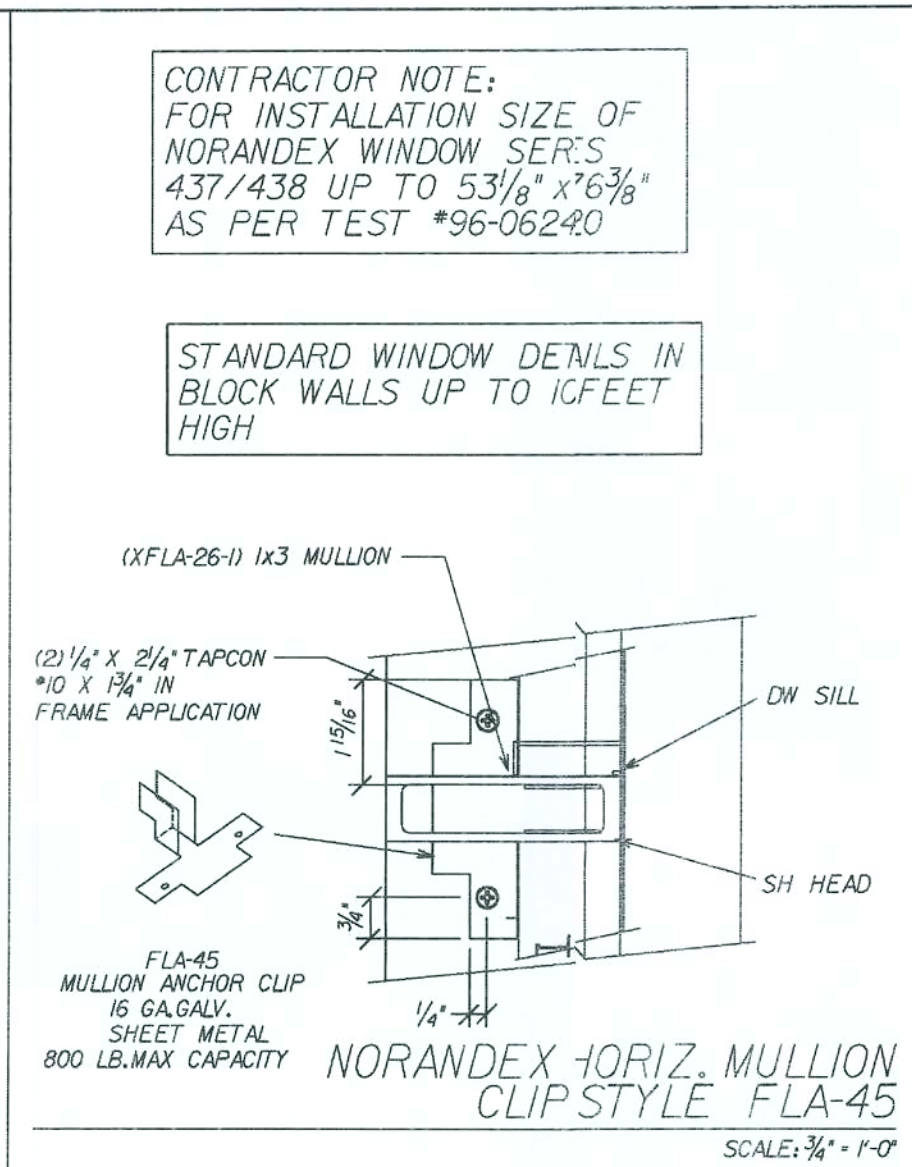
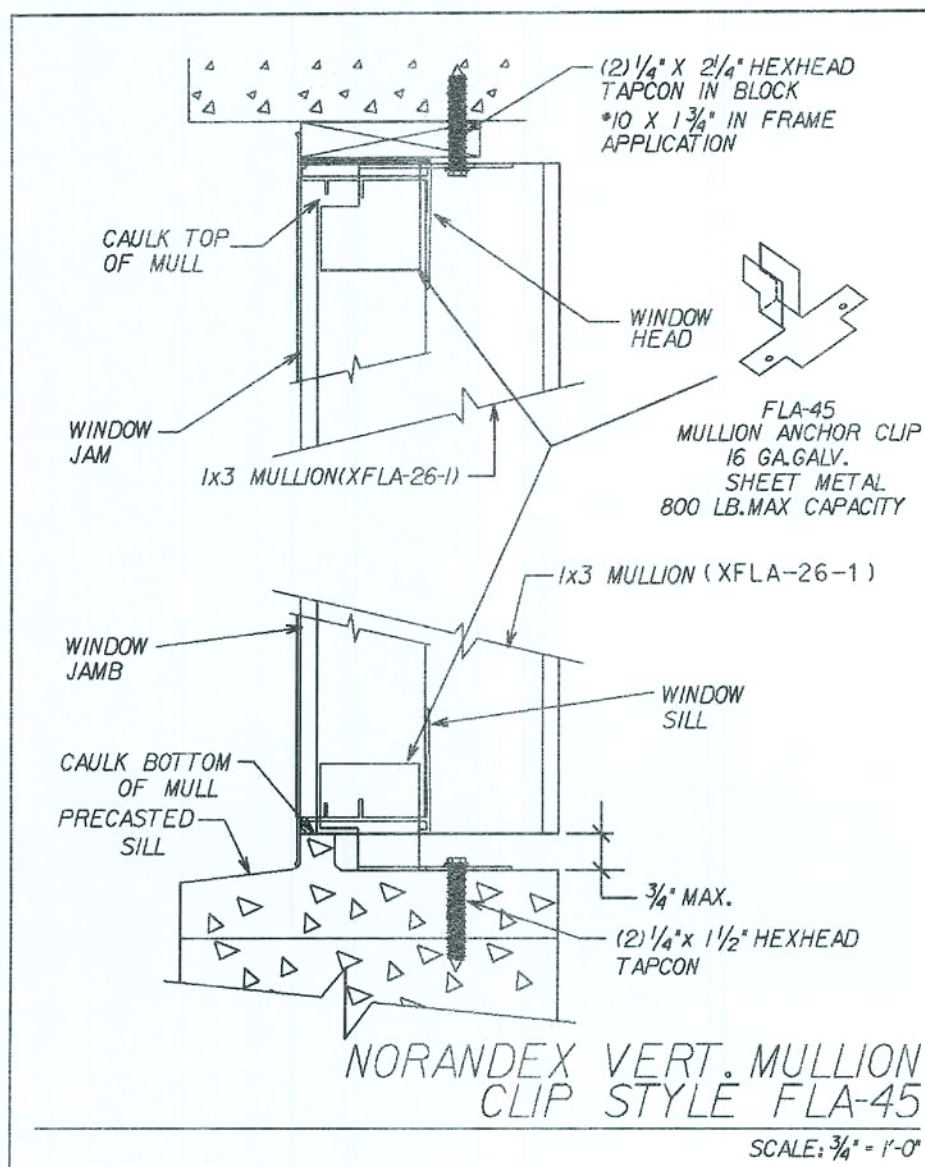
Maronda Homes
FLORIDA
4005 MARONDA WAY SANFORD, FL 32771
(407) 321-0064
FLORIDA RESIDENTIAL WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004: RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AUSTIN 4
DOORS STANDARD DETAILS
DRAWN BY: GARAGE:
RELEASE DATE: 10-18-04
09/13/00

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407) 321-0064

Elmer Bergman, P.E.
License No. 50158
MAY 15 2008

SHEET:
SD-D
PLOT DATE: 04 DEC 2007



REVISIONS :

Maronda Homes

4005 MARONDA WAY SANFORD, FLORIDA 321-0064

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (RESIDENTIAL AD2000, 2006 SUPPLEMENT)

FLORIDA

4005 MARONDA WAY SANFORD, FLORIDA 321-0064

4005 MARONDA WAY SANFORD, FLORIDA 321-0064

WINDOWS STANDARD DETAILS

AUSTIN 4

DRAWN BY: GARAGE:

RELEASE DATE: 10-18-04

09/3/02

Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

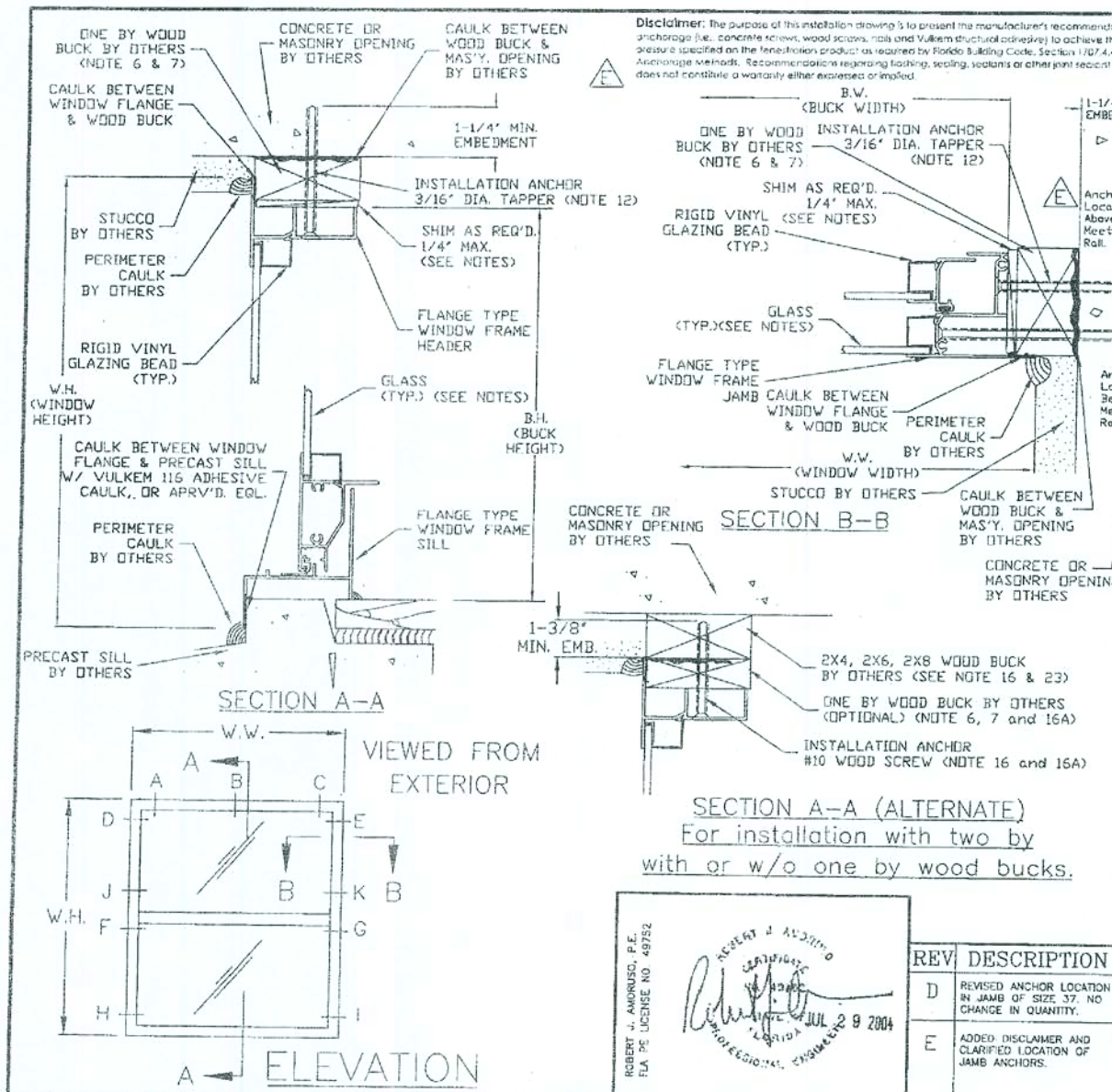
Elmer Bergman, P.E.
License No. 50158

MAY 15 2008

SHEET:

SD-W

PLOT DATE: 04 DEC 2007



IMPORTANT INFORMATION & GENERAL NOTES

These notes are provided to ensure proper installation of Florida Extruders products and must be followed fully.

GENERAL INSTALLATION INSTRUCTIONS

- 1) SHIM AS REQ'D. AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4".
- 2) USE SILICONEZ ACRYLIC CAULK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTACHED TO THE SUBSTRATE WITH VULKEM 116 ADHESIVE CAULK OR APPROVED EQUIVALENT. MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATION.
- 3) USE SILICONEZ ACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGED TO SEAL HEADS OF INSTALLATION FASTENERS.
- 4) FLORIDA EXTRUDERS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE IRIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNG.
- 5) WINDOW FRAME MATERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSTALLATION INSTRUCTIONS

- GENERAL:**
- 6) NAIL ATTACHMENT OF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER. USE A HARDENED "T-NAIL" WITH A 0.097" DIAMETER AND 1 3/8" LENGTH (5/8" EMBEDMENT). A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 1/2" LENGTH (3/4" EMBEDMENT) OR EQUIVALENT. FOR ALTERNATE SECTION A-A/B-B, USE A 0.17" DIAMETER COMMON WIRE NAIL WITH A 3/4" EMBEDMENT OR EQUIVALENT FOR 1/2" NON-STRUCTURAL ONE BY BUCK INTO A TWO BY STRUCTURAL BUCK.
 - 7) APPLIES TO ALL NON-STRUCTURAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIT NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREATER THAN 1" NOMINAL (3/4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUFFICIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 6.
 - 8) ALL INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE CORROSION RESISTANT COATING APPLIED SUITABLE FOR THE ENVIRONMENT AND FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR COMPARISON OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
 - 9) ALL FIELD SUPPLIED HOLES IN THE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
 - 10) WOOD SCREWS SHALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
 - 11) IF WOOD TENDS TO SPLIT, PRE-DRILL HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOLE; #10 WOOD SCREW - 3/16" DIA. PILOT HOLE (NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION).

(SEE SHEET 2 FOR CONTINUATION OF NOTES)

REV	DESCRIPTION	DATE	INI	FLORIDA EXTRUDERS INTERNATIONAL, INC.
D	REVISED ANCHOR LOCATION IN JAMB OF SIZE 37. NO CHANGE IN QUANTITY.	4/23/04	RJA	2540 JEWETT LANE SANFORD, FLORIDA
E	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA	

DATE: 7/29/04 SCALE: NTS DWG: FLEX0016, SHEET 1 OF 2

TAPPER LOCATION CHART			
CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD	LOCATIONS IN JAMB
12	18 1/8 x 25	B	F, G
13	18 1/8 x 37 3/8	B	F, G
14	18 1/8 x 49 5/8	B	F, G
15	18 1/8 x 55 1/4	B	F, G
16	18 1/8 x 62	B	F, G
17	18 1/8 x 83	B	F, G
1H2	25 1/2 x 25	B	F, G
1H3	25 1/2 x 37 3/8	B	F, G
1H4	25 1/2 x 49 5/8	B	F, G
1H5	25 1/2 x 55 1/4	B	F, G
1H6	25 1/2 x 62	B	F, G
1H7	25 1/2 x 83	B	F, G
30 1/2 x 26	29 1/2 x 25	B	F, G
30 1/2 x 38 3/8	29 1/2 x 37 3/8	B	F, G
30 1/2 x 50 5/8	29 1/2 x 49 5/8	B	F, G
30 1/2 x 56 1/4	29 1/2 x 55 1/4	B	F, G
30 1/2 x 62	29 1/2 x 62	B	F, G
30 1/2 x 72	29 1/2 x 71	B	F, G
30 1/2 x 84	29 1/2 x 83	B	F, G
22	36 x 25	B	F, G
23	36 x 37 3/8	B	F, G
24	36 x 49 5/8	B	F, G
24S	36 x 55 1/4	B	F, G
25	36 x 62	B	F, G
26	36 x 71	B	F, G
27	36 x 83	B	F, G
42 x 26	41 x 25	B	F, G
42 x 38 3/8	41 x 37 3/8	B	F, G
42 x 50 5/8	41 x 49 5/8	B	F, G
42 x 56 1/4	41 x 55 1/4	B	F, G
42 x 62	41 x 62	B	F, G
42 x 72	41 x 71	B	F, G
42 x 84	41 x 83	B	F, G
48 x 26	47 x 25	B	F, G
48 x 38 3/8	47 x 37 3/8	B	F, G
48 x 50 5/8	47 x 49 5/8	B	F, G
48 x 56 1/4	47 x 55 1/4	B	F, G
48 x 62	47 x 62	B	F, G
48 x 72	47 x 71	B	F, G
48 x 84	47 x 83	B	F, G
33	52 1/8 x 25	B	F, G
34	52 1/8 x 37 3/8	B	F, G
34S	52 1/8 x 49 5/8	B	F, G
35	52 1/8 x 55 1/4	B	F, G
36	52 1/8 x 62	B	F, G
37	52 1/8 x 71	B	F, G
38	52 1/8 x 83	B	F, G

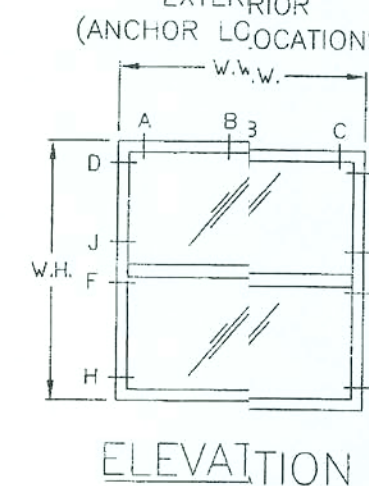
* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES.

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

- 12) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A NON-STRUCTURAL ONE BY WOOD BUCK (NOTE 7), USE A 3/16" DIA. TAPPER CONCRETE SCREW OF SUFFICIENT LTH. TO ACHIEVE MIN. EMBEDMENT OF 1 1/4" INTO MASONRY OR CONCRETE.
- 13) SEE THIS SHEET FOR TAPPER CONCRETE SCREWS AND TAPPER CONCRETE SCREW LOCATION CHART. LETTER DESIGNATIONS ON THE TAPPER LOCATION CHART INDICATE WHERE TAPPER CONCRETE SCREWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY.
- 14) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (BY ELO TEXTRON INC.) OR TITEN (BY SIMPSON STRONG-TIE) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW SIZES:
 - (1) 18 1/8 x 62 AND (2) 30 1/2 x 72
 - (3) LIMIT TO 65 PSF. OR
 - (4) INSTALL ONE ADDITIONAL FASTENER IN EACH JAMB OVER CHART REQUIREMENTS AT LOCATIONS H AND I.
- 15) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR TAPPER CONCRETE SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

VIEWED FROM EXTERIOR (ANCHOR LOCATIONS)



#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK - SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

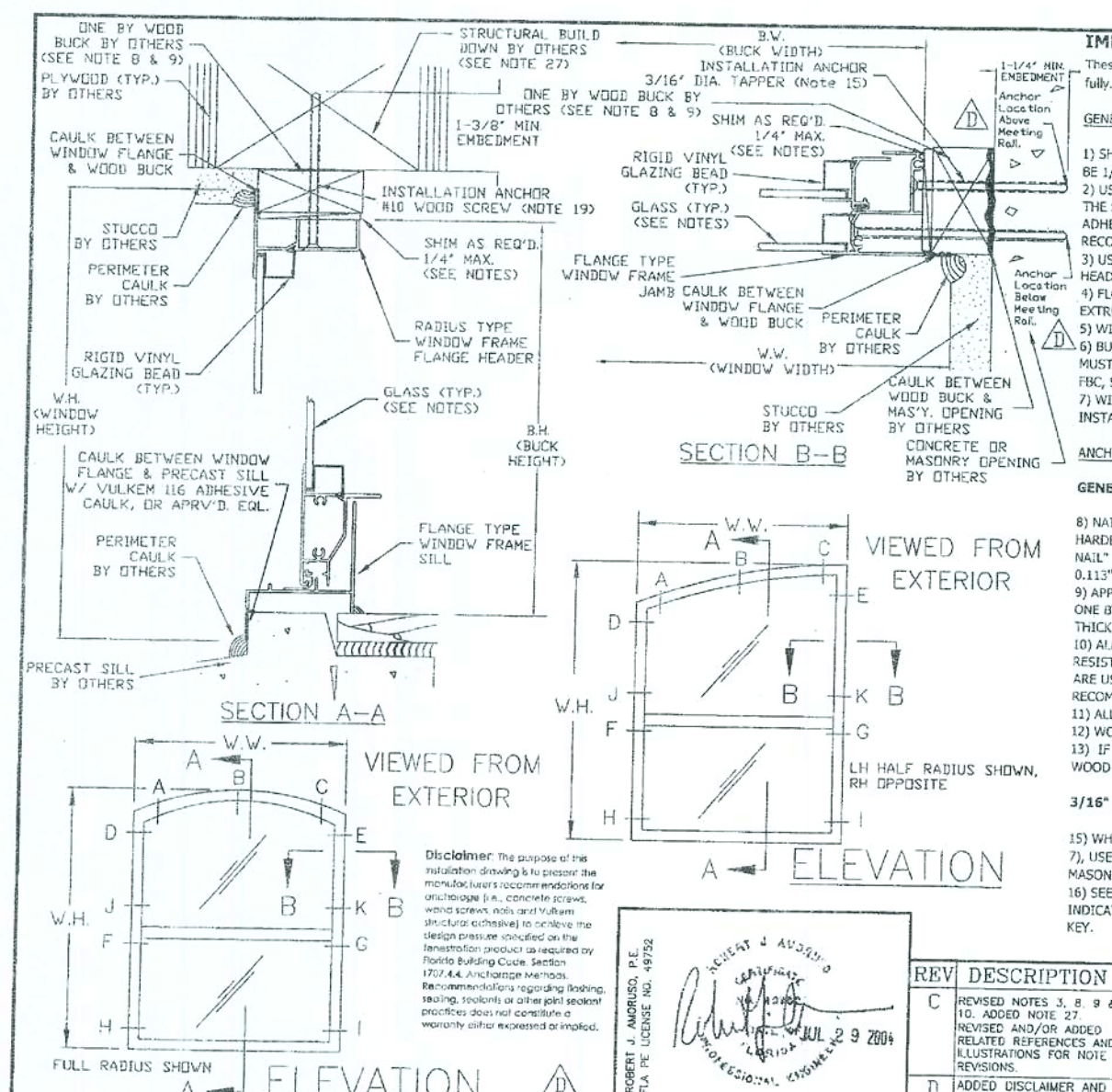
- 16) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTURAL TWO BY WOOD BUCK, USE #10 WOOD SCREWS (ANSI B18.6.1) OF SUFFICIENT LENGTH TO ACHIEVE 1 3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK.
- 16A) IF A TWO BY ONE BY WOOD BUCK ARE USED (SEE SECTION A-A ALTERNATE, SIMILAR FOR SECTION B-B), THEN #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK WILL BE USED AND THE ONE BY WOOD BUCK WILL BE SECURED TO THE TWO BY WOOD BUCK AS REQUIRED IN NOTE 6 & 7.
- 17) #10 WOOD SCREWS SHALL BE INSTALLED AT ALL FACTORY APPLIED INSTALLATION FASTENER HOLE LOCATIONS.
- 18) WOOD SCREWS SHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

- 19) IF EXACT WINDOW SIZE IS NOT LISTED IN TAPPER ANCHOR CHART FOR NON-STRUCTURAL BUCK INSTALLATION, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
- 20) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR THE WINDOW SIZES SHOWN IN THE CHART. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
- 21) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
- 22) COMPLY WITH FBC, CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS, 1707.4.4.2 FOR MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATES AND 1707.4.4.3 FOR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
- 23) TWO BY WOOD BUCK AND/OR FRAMING AT THE HEAD AND JAMBS TO BE SECURELY FASTENED TO TRANSFER THE LOAD TO THE MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE PER FBC, SECTION 1707.4.4.2 AND THE ENGINEER OF RECORD'S DETAILS.

REV	DESCRIPTION	DATE	INI	FLORIDA EXTRUDERS INTERNATIONAL, INC.
B	REVISED ANCHOR LOCATION IN JAMB OF SIZE 37. NO CHANGE IN QUANTITY.	4/23/04	RJA	2540 JEWETT LANE SANFORD, FLORIDA
C	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA	

DATE: 7/29/04 SCALE: NTS DWG: FLEX0016, SHEET 2 OF 2



IMPORTANT INFORMATION & GENERAL NOTES

These notes are provided to ensure proper installation of Florida Extruders products and must be followed fully.

GENERAL INSTALLATION INSTRUCTIONS

- 1) SHIM AS REQ'D. AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4".
- 2) USE SILICONEZ ACRYLIC CAULK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTACHED TO THE SUBSTRATE WITH VULKEM 116 ADHESIVE CAULK OR APPROVED EQUIVALENT. MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATION.
- 3) USE SILICONEZ ACRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGE AND TO SEAL HEADS OF INSTALLATION FASTENERS.
- 4) FLORIDA EXTRUDERS 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNG.
- 5) WINDOW FRAME MATERIAL: ALUMINUM ALLOY 6063.
- 6) BUILD DOWN AROUND CURVED FORM OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFICIENT STRENGTH TO ADEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER FBC, SECTION 1707.4.4.
- 7) WINDOW UNIT CAN BE MULLED OTHER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REQUIREMENTS.

ANCHOR INSTALLATION INSTRUCTIONS

- GENERAL:**
- 8) NAIL ATTACHMENT OF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER. USE A HARDENED "T-NAIL" WITH A 0.097" DIAMETER AND 1 3/8" LENGTH (5/8" EMBEDMENT). A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 1/2" LENGTH (3/4" EMBEDMENT) OR EQUIVALENT FOR THE JAMBS. USE A 0.112" DIAMETER COMMON WIRE NAIL WITH A 3/4" EMBEDMENT OR EQUIVALENT FOR THE HEAD.
 - 9) APPLIES TO ALL NON-STRUCTURAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREATER THAN 1" NOMINAL (3/4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUFFICIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 8.
 - 10) ALL INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING APPLIED SUITABLE FOR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVATIVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
 - 11) ALL FIELD SUPPLIED HOLES IN THE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
 - 12) WOOD SCREWS SHALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
 - 13) IF WOOD TENDS TO SPLIT, PRE-DRILL HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOLE; #10 WOOD SCREW - 3/16" DIA. PILOT HOLE (NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION).

3/16" DIA. TAPPER CONCRETE SCR (WITH NON-STRUCTURAL ONE BY WOOD BUCK):

- 15) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A NON-STRUCTURAL ONE BY WOOD BUCK (NOTE 7), USE A 3/16" DIA. TAPPER CONCRETE SCREW OF SUFFICIENT LTH. TO ACHIEVE MIN. EMBEDMENT OF 1 1/4" INTO MASONRY OR CONCRETE.
- 16) SEE SHEET 2 FOR INSTALLATION ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE LOCATION CHART INDICATE WHERE TAPPER CONCRETE SCRS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY.

(SEE SHEET 2 FOR CONTINUATION OF NOTES)

REV	DESCRIPTION	DATE	INI	FLORIDA EXTRUDERS INTERNATIONAL, INC.
C	REVISED NOTES 8, 9 & 10. ADDED NOTE 27. REVISED AND/OR ADDED RELATIVE DIMENSIONS AND ILLUSTRATIONS FOR NOTE REVISIONS.	12/19/03	RJA	2540 JEWETT LANE SANFORD, FLORIDA
D	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA	

DATE: 7/29/04 SCALE: NTS DWG: FLEX0040, SHEET 1 OF 2

ANCHOR LOCATION CHART (SEE NOTES BELOW)			
CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD	LOCATIONS IN JAMB
12	18 1/8 x 27 5/16	A, C	F, G
13	18 1/8 x 39 11/16	A, C	F, G
14	18 1/8 x 51 15/16	A, C	F, G
15	18 1/8 x 57 18/32	A, C	F, G
16	18 1/8 x 64 5/16	A, C	F, G
1H2	25 1/2 x 28 9/16	A, C	F, G
1H3	25 1/2 x 40 15/16	A, C	F, G
1H4	25 1/2 x 53 3/16	A, C	F, G
1H5	25 1/2 x 59 13/16	A, C	F, G
1H6	25 1/2 x 65 9/16	A, C	F, G
1H7	25 1/2 x 74 9/16	A, C	F, G
30 1/2 x 30 7/32	29 1/2 x 29 7/32	A, C	F, G
30 1/2 x 42 19/32	29 1/2 x 41 19/32	A, C	F, G
30 1/2 x 54 27/32	29 1/2 x 53 27/32	A, C	F, G
30 1/2 x 60 15/32	29 1/2 x 59 15/32	A, C	F, G
30 1/2 x 67 1/32	29 1/2 x 66 1/32	A, C	F, G
30 1/2 x 76 7/32	29 1/2 x 75 7/32	A, C	F, G
22	36 x 30 5/16	A, B, C	F, G
23	36 x 42 11/16	A, B, C	F, G
24	36 x 54 15/16	A, B, C	F, G
24S	36 x 60 8/16	A, B, C	F, G
25	36 x 67 5/16	A, B, C	F, G
26	36 x 76 5/16	A, B, C	F, G
42 x 32 5/32	41 x 31 5/32	A, B, C	F, G
42 x 44 17/32	41 x 43 17/32	A, B, C	F, G
42 x 56 25/32	41 x 55 25/32	A, B, C	F, G
42 x 68 3/8	41 x 67 3/8	A, B, C	F, G
42 x 80 5/32	41 x 79 5/32	A, B, C	F, G
42 x 92 1/32	41 x 91 1/32	A, B, C	F, G
48 x 33 5/32	47 x 32 5/32	A, B, C	F, G
48 x 45 17/32	47 x 44 17/32	A, B, C	F, G
48 x 57 25/32	47 x 56 25/32	A, B, C	F, G
48 x 69 3/8	47 x 68 3/8	A, B, C	F, G
48 x 70 5/32	47 x 69 5/32	A, B, C	F, G
48 x 78 5/32	47 x 78 5/32	A, B, C	F, G
32	52 1/8 x 33	A, B, C	F, G
33	52 1/8 x 45 3/8	A, B, C	F, G
34	52 1/8 x 57 5/8	A, B, C	F, G
35	52 1/8 x 69 1/4	A, B, C	F, G
36	52 1/8 x 79	A, B, C	F, G

ANCHOR LOCATION CHART NOTES:

1. Locations in HEAD for #10 Wood Screws into structural "two by" wood buck or "one by" wood buck structural build-down.
2. Locations in JAMB for 3/16" TAPPER CONCRETE Screws into non-structural buck & concrete or masonry.
3. Locations in JAMB for #10 Wood Screws into structural "two by" buck.
4. Dimensions given are for half radius head units, full radius will be shorter.

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

- 17) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (BY ELO TEXTRON INC.) OR TITEN (BY SIMPSON STRONG-TIE) CAN BE SUBSTITUTED WITH THE FOLLOWING LIMITATIONS FOR THE SINGLE HUNG WINDOW CALL SIZE 15:
 - (a) LIMIT TO 65 PSF. OR
 - (b) INSTALL ONE ADDITIONAL FASTENER IN EACH JAMB OVER CHART REQUIREMENTS AT LOCATIONS H AND I.
- 18) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR TAPPER CONCRETE SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK OR ONE BY WOOD BUCK/STRUCTURAL BUILD-DOWN):

- 19) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTURAL TWO BY WOOD BUCK OR ONE BY WOOD BUCK/STRUCTURAL BUILD-DOWN, USE #10 WOOD SCREWS (ANSI B18.6.1) OF SUFFICIENT LENGTH TO ACHIEVE 1 3/8" MIN. EMBEDMENT INTO THE TWO BY WOOD BUCK OR THE STRUCTURAL BUILD-DOWN FRAMING COMPONENT.
- 20) SEE SHEET 2 FOR INSTALLATION ANCHOR LOCATION CHART. LETTER DESIGNATIONS ON THE LOCATION CHART INDICATE WHERE #10 WOOD SCREWS ARE TO BE INSTALLED WHEN USING THE EXTERIOR ELEVATION AS A KEY. ALSO SEE "ANCHOR LOCATION CHART NOTES", NOTE 3, FOR WINDOW SIZES REQUIRING ADDITIONAL ANCHORS AND LOCATIONS.
- 21) #10 WOOD SCREWS SHALL NOT BE USED TO FASTEN ASSEMBLY INTO THE END GRAIN OF WOOD.
- 22) ALL REMAINING FACTORY APPLIED INSTALLATION FASTENER HOLES NOT USED FOR #10 WOOD SCREW INSTALLATION SHOULD BE FILLED WITH #8 WOOD SCREWS OF SUFFICIENT LTH. TO PROVIDE MIN. 5/8 IN. EMBEDMENT INTO WOOD BUCK.

DESIGN PRESSURE RATING & FBC REQUIREMENTS

- 23) IF EXACT WINDOW SIZE IS NOT LISTED IN ANCHOR LOCATION CHART, USE ANCHOR QUANTITY LISTED FOR NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
- 24) INSTALLATIONS DEPICTED IN THESE INSTRUCTIONS ACCEPTABLE FOR DESIGN PRESSURES TO 70 PSF FOR THE WINDOW SIZES SHOWN IN THE CHART. DESIGN PRESSURES (D.P.) SHOWN ARE POSITIVE AND NEGATIVE.
- 25) GLASS THICKNESS MAY VARY PER THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
- 26) COMPLY WITH CHAPTER 17 SECTIONS 1707.4.4.1 FOR ANCHORING REQUIREMENTS, 1707.4.4.2 FOR MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATES AND 1707.4.4.3 FOR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
- 27) STRUCTURAL BUILD-DOWN AT THE HEAD TO BE DESIGNED TO TRANSFER THE LOAD TO THE MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE PER FBC, SECTION 1707.4.4.2 AND THE ENGINEER OF RECORD'S DETAILS.

REV	DESCRIPTION	DATE	INI	FLORIDA EXTRUDERS INTERNATIONAL, INC.
B	REVISED ANCHOR LOCATION IN JAMB OF SIZE 37. NO CHANGE IN QUANTITY.	4/23/04	RJA	2540 JEWETT LANE SANFORD, FLORIDA
C	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA	

DATE: 7/29/04 SCALE: NTS DWG: FLEX0040, SHEET 2 OF 2

REVISIONS:

FLORIDA

Maronda Homes

4005 MARONDA WAY SANFORD, FLORIDA

14071 321-0064

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FLORIDA EXTRUDERS

WINDOWS IN BLOCK

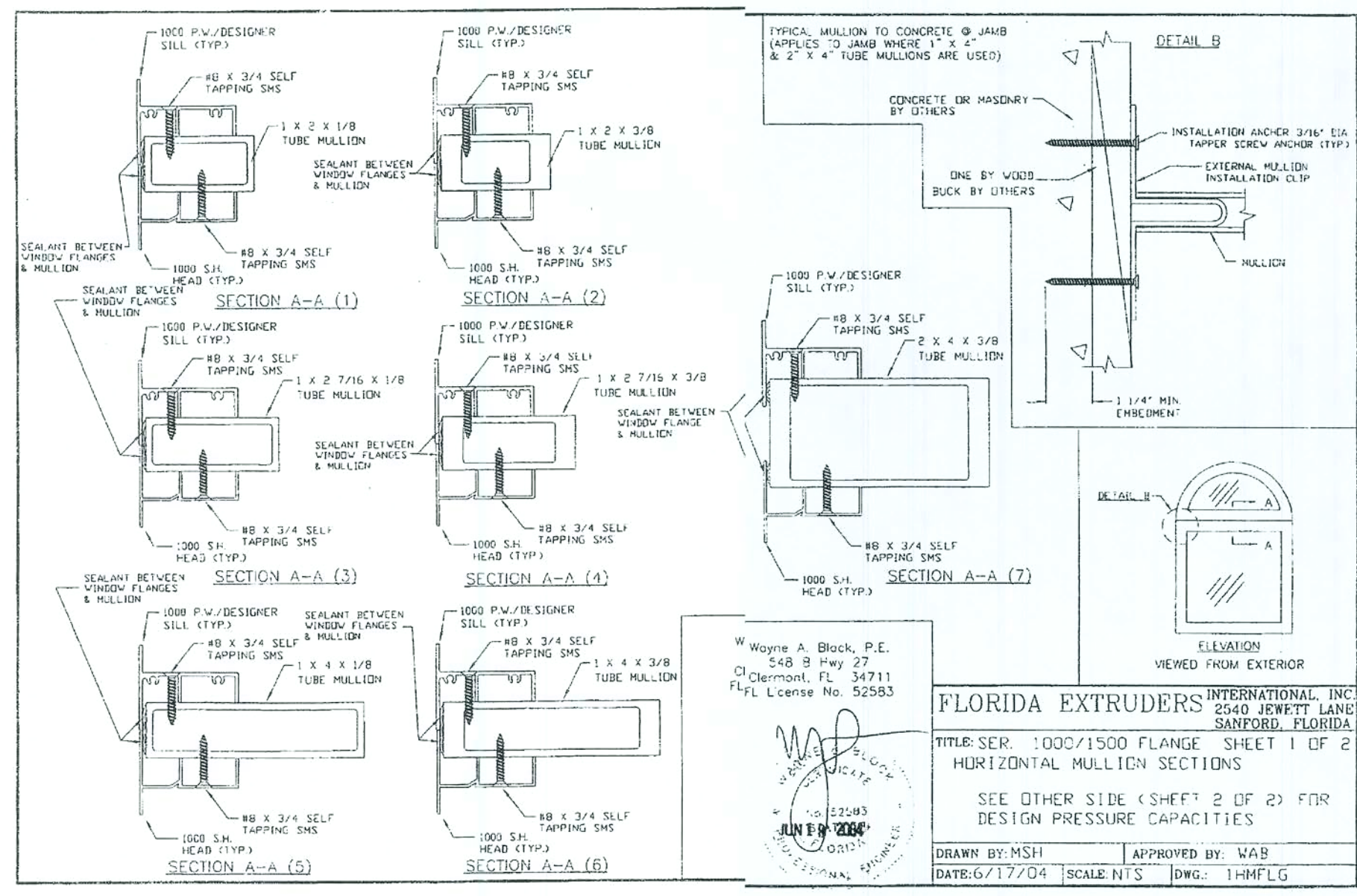
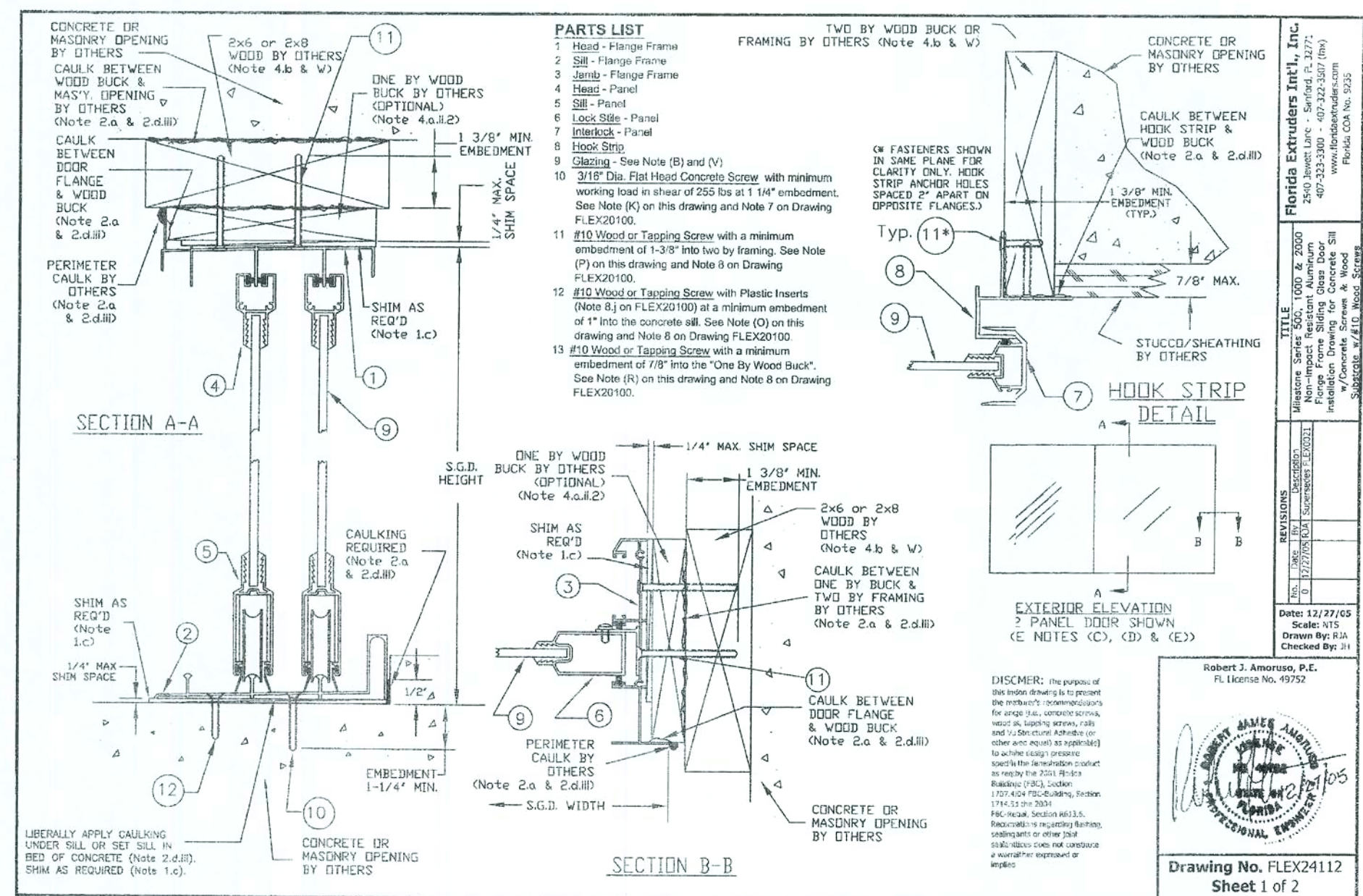
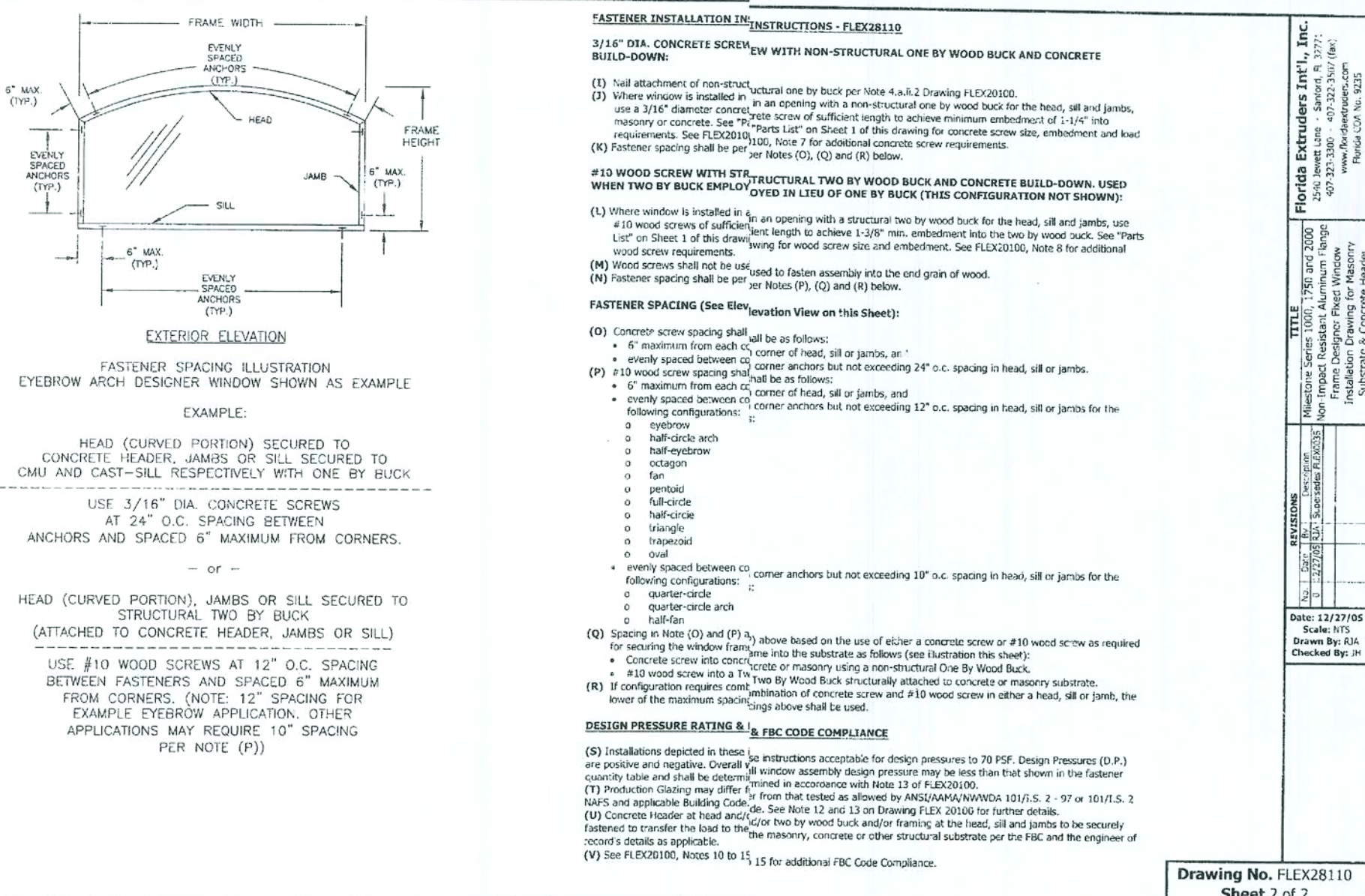
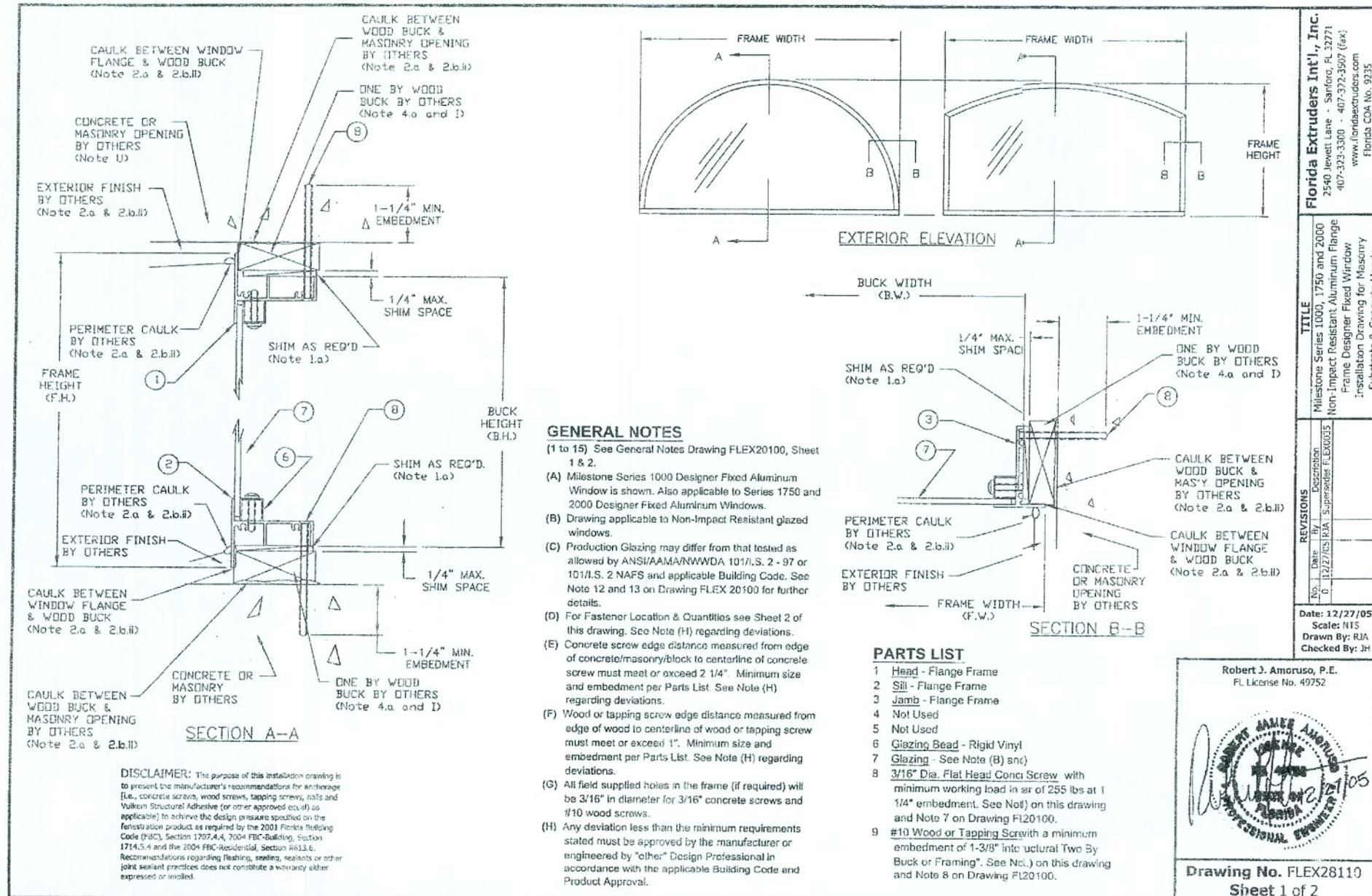
RELEASE DATE:

3/25/03

3/25/03

SHEET:

1 of 3



REVISIONS:

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FLORIDA

4005 MARONDA WAY SANFORD, FL 32711

RELEASE DATE: 12/27/05

3 MAY 2006

SHEET: 2 of 3

General Notes Drawing for Milestone Series 1000, 1500, 2000 and 3000 Non-Impact Resistant Aluminum Window and
Patio Sliding Glass Door Installation Details

These notes are provided to ensure proper installation of Florida Extruders Milestone Non-Impact Resistant Aluminum Fenestration Products and must be followed fully. This General Notes drawing shall be used in tandem with the product specific installation drawing.

A) General Assembly Installation Instructions

1) SHIMMING:

- HANGE FRAME WINDOWS:** Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack is 1/4".
- FIN FRAME WINDOWS:** Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack is 1/4". Apply a bead of Vulkem 116 adhesive sealant or approved equal at the fastener location prior to inserting the shim to adhere the shim to the substrate and/or window frame. Full bearing between the shim, substrate and window frame are required.
- SLIDING GLASS DOORS:** Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack is 1/4". Load bearing shim at sill must be pressure treated wood or plastic and must be completely encapsulated in sealant or set in wet concrete.

2) SEALING BETWEEN FENESTRATION PRODUCT AND SUBSTRATE & GSG SEAM SEALANT (See Disclaimer Statement above):

- GENERAL - SEALANT TYPE** (not applicable when a specific brand or type is required)
 - Sealant type shall be chosen based on the sealant manufacturer's recommendation as it relates to materials to be sealed, environmental conditions and intended use.
- WINDOWS - FLANGE FRAME:**
 - Adhesive Seal - REQUIRED:
 - Use Vulkem 116 adhesive sealant or approved equal between window's integral mounting fin and precast concrete sill (if other construction) along full length of sill.
 - Application of Vulkem 116 adhesive sealant or approved equal must comply with sealant manufacturer's recommendations.
 - Sealant - RECOMMENDED (See Disclaimer):
 - Use sealant behind window flange at head and jamb.
 - Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.
- WINDOWS - FIN FRAME:**
 - Adhesive Seal - NOT REQUIRED
 - Sealant - RECOMMENDED (See Disclaimer):
 - Use sealant behind window flange at head, sill and jamb.
 - Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.
- SLIDING GLASS DOORS:**
 - Adhesive Seal - NOT REQUIRED
 - Mechanically Fastened Corners - REQUIRED:
 - Sliding Glass Doors received in "Knockers-Downed" condition shall have jamb and sill corners sealed with a small joint sealant.
 - Sealant - RECOMMENDED (See Disclaimer):
 - Use sealant behind door flange at head and jamb and behind push strip.
 - Use sealant behind window flange at head and jamb.
 - Use sealant for perimeter seal around exterior of door and between push strip & back for pocket doors and to seal heads of installation fasteners.

3) MATERIALS:

- Window and sliding glass door frame material is Aluminum Alloy 6063 T6.
- Concrete screws shall meet the minimum requirements of Note 7.
- Wood screws shall meet the requirements of Note 9.
- Tapping (i.e., Sheet Metal) screws when used in lieu of wood screws shall meet the requirements of Note 8.
- Nails shall meet the requirements of Note 8.
- Corrosion Resistant Coatings for fasteners shall meet the requirements of Note 5.
- Concrete block or concrete masonry units (CMU) shall meet the requirements of ASTM C90.
- Concrete shall meet the minimum requirements of the Florida Building Code (minimum compressive strength of 2500 psi).

4) BUCKING:

- One by (1x) wood bucking:
 - Applies to all non-structural bucks less than 1 1/2" thickness. Not intended to limit to structural or by wood buck only.
 - One by wood bucking shall be secured to the substrate (masonry, concrete or structural wood bucking or framing using fasteners suitable for the application).
 - If the product specific installation drawing does not prescribe fastening requirements for the bucking, they shall be followed.
 - If the product specific installation drawing does not prescribe fastening requirements for the bucking, fastening must only be sufficient to maintain position of the bucking during window installation.
 - Installer, builder or design professional of record may specify method to secure one by wood bucking to substrate to facilitate window installation.
- Two by (2x) wood bucking or framing:
 - Applies to all structural wood bucks and/or framing at the head, jamb or sill equal to and greater than 1 1/2" thickness.
 - They shall be securely fastened to transfer the load to the masonry, concrete or other structural substrate per 2001 FBC, Section 1707.4.4, 2004 FBC Building, Section 1717.5.4 and 2004 FBC-Residential, Section R613.6 and/or the engineer of record's details as applicable.

5) General Fastener Installation Instructions

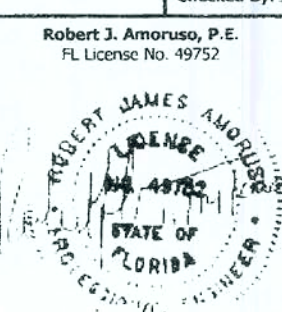
- All installation fasteners must be made of corrosion resistant materials or have a corrosion resistant coating applied suitable for the environment and/or framing material. Where fasteners are used in pressure preservative treated wood, the wood supplier shall be consulted for recommendation of fasteners compatible with the pressure preservative treatment process used.
- All field supplied holes in the frame (if required) will be as follows:
 - 5/32" diameter for all 1/8" wood or tapping screws and 3/16" diameter for concrete screws.
 - 3/16" in diameter for all #10 wood or tapping screws and 3/16" diameter for concrete screws.
 - No. 79 size drill bit for C-131 "stank diameter nails.
 - No. 33 size drill bit for C-113 "stank diameter nails.
- Concrete Screws (For attachment to masonry or concrete substrate):
 - Shall be "Flat" head unless otherwise indicated.
 - Shall have a minimum nominal diameter of 3/16" unless otherwise noted.
 - Shall have a minimum embedment of 1 1/4" into the concrete, masonry or concrete block or masonry unit (CMU) receiving the point unless otherwise noted.
 - Shall have an allowable working load in shear as noted on the "Parts List" on the product specific installation drawing.
 - Working load is defined as the ultimate load determined by test divided by 4 as determined and published by the concrete screw manufacturer.
 - If the allowable shear load exceeds the above minimum, required number of fasteners shown on the installation drawings CANNOT be decreased.
 - If the allowable shear load is less than the above minimum, additional site engineering analysis meeting the building code and acceptable to the Authority Having Jurisdiction (AHJ) will be required.
 - Concrete screws shall be of sufficient length so that the minimum embedment into the receiving substrate (member receiving the point) is met.
 - Minimum Edge Distance of concrete screw fasteners shall be 2" from the edge of the substrate for a 3/16" diameter concrete screw.

DISCLAIMER

The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage [i.e., concrete screws, wood screws, tapping screws, nails and Vulkem Structural Adhesive (or other approved equal)] to achieve the design pressure specified on the fenestration product as required by the 2001 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC Building, Section 1714.5.4 and the 2004 FBC-Residential, Section R613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

NOTE ON PE SEALING

Original drawings with two sheets (pages) are reproduced on one sheet front and back. When reproduced this way, they are sealed on the first (front) sheet only. In response to Robert Amoroso's inquiry to the Florida Board of Professional Engineers, the FBPE at their meeting on June 20, 2002 responded that in such circumstances, it is acceptable for the sealing PE to only sign, date and seal the front sheet of the drawing when printed on the front and back. This was documented by letter to Robert Amoroso dated July 31, 2002 from the Office of the Attorney General, State of Florida.



Drawing No. FLEX20100
Sheet 1 of 2

FASTENER LOCATION TABLE (see Elevation View, Sheet 1)

Series	Size Code	Frame Width and Height		Fastener Screw Location	
		Width	Height (Full Radius)	Head (No. 10 WS)	Jambs (No. 10 WS or Concrete Screw)
1000/1500/2000	12	19 1/8"	26 13/16"	28 5/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	13	19 1/8"	30 3/16"	40 11/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	14	19 1/8"	30 3/16"	52 15/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	14S	19 1/8"	57 1/16"	58 9/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	15	19 1/8"	63 13/16"	65 5/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	16	19 1/8"	72 13/16"	74 5/16"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	17	19 1/8"	84	84	A, B, C, D, E, F, G, H, I, J, K
1000/1500	17	19 1/8"	90	86 5/16"	A, B, C, D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	112	26 1/2"	27 7/16"	29 9/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	113	26 1/2"	36 3/16"	41 15/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	114	26 1/2"	52 1/16"	54 3/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	114S	26 1/2"	57 1/16"	59 13/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	116	26 1/2"	64 7/16"	66 9/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	116S	26 1/2"	73 7/16"	75 9/16"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	117	26 1/2"	84	84	A, B, C, D, E, F, G, H, I, J, K
1000/1500	117	26 1/2"	90	87 9/16"	A, B, C, D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	312	30 1/2"	27 7/16"	30 11/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	313	30 1/2"	40 13/16"	42 7/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	314	30 1/2"	52 3/16"	54 11/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	314S	30 1/2"	58 1/16"	60 23/32"	A, B, C, D, E, F, G, H, I
1000/1500/2000	315	30 1/2"	64 7/16"	67 11/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	316	30 1/2"	73 7/16"	76 11/16"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	317	30 1/2"	84 1/16"	83 47/64"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	317	30 1/2"	90 1/16"	89 47/64"	A, B, C, D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	22	37	28 5/16"	31 5/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	23	37	40 11/16"	43 11/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	24	37	52 15/16"	55 15/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	24S	37	58 9/16"	61 9/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	25	37	65 5/16"	68 5/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	26	37	74 5/16"	77 5/16"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	27	37	84	84	A, B, C, D, E, F, G, H, I, J, K
1000/1500	27	37	90	86 5/16"	A, B, C, D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	482	48	29 7/32"	33 7/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	483	48	41 19/32"	46 25/32"	A, B, C, D, E, F, G, H, I
1000/1500/2000	484	48	53 27/32"	57 37/32"	A, B, C, D, E, F, G, H, I
1000/1500/2000	484S	48	59 15/32"	63 19/32"	A, B, C, D, E, F, G, H, I
1000/1500/2000	485	48	66 7/32"	70 7/16"	A, B, C, D, E, F, G, H, I
1000/1500/2000	486	48	75 7/32"	79 7/16"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	487	48	84	84 1/12"	A, B, C, D, E, F, G, H, I, J, K
1000/1500	487	48	90	90 1/12"	A, B, C, D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	32	53 1/8"	29 21/32"	34	A, B, C, D, E, F, G, H, I
1000/1500/2000	33	53 1/8"	42 1/32"	46 3/8"	A, B, C, D, E, F, G, H, I
1000/1500/2000	34	53 1/8"	54 9/32"	58 5/8"	A, B, C, D, E, F, G, H, I
1000/1500/2000	34S	53 1/8"	59 29/32"	64 1/4"	A, B, C, D, E, F, G, H, I
1000/1500/2000	35	53 1/8"	66 21/32"	71	A, B, C, D, E, F, G, H, I
1000/1500/2000	36	53 1/8"	75 21/32"	80	A, B, C, D, E, F, G, H, I, J, K
1000/1500	n/a	n/a	n/a	n/a	n/a
2000	37	53 1/8"	90	90	A, B, C, D, E, F, G, H, I, J, K, Y, Z

FASTENER INSTALLATION INSTRUCTIONS - FLEX22110

3/16" DIA. CONCRETE SCREW WITH NON-STRUCTURAL ONE BY WOOD BUCK:

(1) Where window is installed in an opening with a non-structural one by wood buck for the jambs and masonry or concrete sill, installation is as follows:

- At the jambs, use a 3/16" diameter concrete screw of sufficient length to achieve minimum embedment of 1-1/4" into masonry or concrete. See "Parts List" on Sheet 1 of this drawing for concrete screw size, embedment and load requirements. See FLEX20100, Note 7 for additional concrete screw requirements.
- At the sill, apply a Structural Adhesive Sealant for the full length of the sill meeting the requirements of Note 2.b.i on FLEX 20100.

(2) See fastener installation table on this sheet for concrete screw locations in jambs and additional installation requirements.

#10 WOOD SCREW WITH (1) STRUCTURAL BUILD-DOWN FOR RADIUS HEAD, (2) OPTIONAL STRUCTURAL TWO BY WOOD BUCK AND (3) OPTIONAL ONE BY WOOD BUCK AT HEAD AND/OR JAMBS (SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION FOR HEAD, SIMILAR FOR SECTION B-B AT JAMB):

(K) Where window is installed in an opening with a (1) structural build-down for radius head, (2) optional structural two by wood buck and (3) optional one by wood buck at head and/or jambs, installation is as follows:

- For structural build-down at the head and/or two by wood buck at the head and/or jambs as applicable, use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck and/or structural build-down. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
- For one by wood buck used in conjunction with a structural two by wood buck at the head and/or jambs as applicable use #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck. See "Parts List" on Sheet 1 of this drawing for wood screw size and embedment. See FLEX20100, Note 8 for additional wood screw requirements.
- At the sill, apply a Structural Adhesive Sealant for the full length of the sill meeting the requirements of Note 2.b.i on FLEX 20100.

(L) If a two by one and one by wood buck are used together (see Section A-A Alternate, similar for Section B-B), then #10 wood screws of sufficient length to achieve 1-3/8" min. embedment into the two by wood buck will be used and the one by wood buck will be secured to the two by wood buck as required in Note 4.a.ii.2 on drawing FLEX20100.

(M) #10 wood screws shall be installed at all factory applied installation fastener hole locations where applicable.

(N) Wood screws shall not be used to fasten assembly into the end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

- If exact window size is not listed in fastener installation table, use fastener locations listed for next larger size.
- Installations depicted in these instructions acceptable for design pressures to 70 PSF for the window sizes shown in the chart. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener quantity table and shall be determined in accordance with Note 13 of FLEX20100.
- Production Glazing may differ from that tested as allowed by ANSI A111.1/ASTM A111.1/ASCE 101/1.2, 101/1.2, 2/NAFS or AAMA/WDMA/CSA 101/1.2, 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
- Structural build-down at head, two by wood buck and/or framing at the head and jambs to be securely fastened to transfer the load to the masonry, concrete or other structural substrate per the FBC and the engineer of record's details as applicable.
- See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

FASTENER LOCATION TABLE NOTES:

- This chart and Notes 1, J, K, L, M and N for use when a Radius Head Flange Window is installed in opening with the following attributes:
 - Wood Structural Build-Down at Head, and
 - Masonry/Concrete Substrate and One-By Wood Buck at Jambs.
- Install Radius Head Flange Window using #10 Wood Screws with a 1-3/8" minimum embedment into the structural wood substrate in accordance with Notes K to N in an opening with the following attributes:
 - Wood Structural Build-Down at Head,
 - Optional Structural Two By Buck is installed at the head and/or jambs, and
 - Optional One By Wood Buck is installed at the head or jambs.
- See Note R regarding structural framing requirements.
- See Sheet 1 for fastener location diagrams.
- Fasteners Y & Z applicable to Series 2000 Size 37 Only. 3/16" Hole must be drilled in field.

Drawing No. FLEX22110
Sheet 2 of 2

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-322-5807 (fax)
www.floridextruders.com
Florida COA No. 9235

Milestone Series 1000, 1500 & 2000
Non-Impact Resistant Aluminum Flange
Frame Radius Head SH Window
Installation Dwg. for Masonry/Wood
Substrate with Concrete/Wood Screws

REVISIONS:
No. Date Description
1 12/27/09 JCA Supersedes FLEX20100
2 11/17/09 RJA Revised Anchorage
3 2/20/07 RJA Editorial Corrections
Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

FLORIDA EXTRUDERS
WINDOWS IN BLOCK

REVISIONS:
No. Date Description
1 12/27/09 JCA Supersedes FLEX20100
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Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

3 of 3

PRODUCT APPROVAL INFORMATION SHEET FOR FORDIA

PROJECT NAME: _____ PERMIT # _____

PROJECT ADDRESS: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, Please provide the information and product approval number(s) for the building components listed below as applicable to the building construction project for the permit number listed above. You should contact your product supplier. If you do not know the product approval number for any of the applicable list products, information regarding statewide product approval may be obtained at: www.fordiabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc.	Fiberglass Doors	Evaluated for use in location adhering to the Florida Building Code and where pressure requirements as determined ACSE 7 Minimum Design Load For Building and Other Structures.	FL 6729J FL 6729.5	+ 50 / -50 + 50 / -50
2. Sliding	Simonton/Norandex Florida Extruders	Sliding Glass Doors	500 72X80 SGD-R4 Milestone 1000 SGD	FL 5979J FL 45J	+ 50 / -50 +45 / -45
3. Sectional	Wayne Dalton	Garage Doors 130 16' 9100 / 5120 8'	As Indicated in evaluation report and installation drawings. Not to be used in HVHZ.	FL 5287J FL 5287.3 FL 9174.4 FL 9174.5	+26.9 / -30.8 +25.9 / -28.8 +43.2 / -49.6 +39.2 / -43.7
4. Roll up		Garage Doors 140 16' 9100 / 5120 8'			
B. WINDOWS					
1. Single Hung	H-R Windows Danville Window Co Florida Extruders	300 Fin Single Hung 341 Flange Frame S.H. Milestone 1000 S.H.	40-17 72x74 H-r45	FL 5089J FL 2752J FL 42J	+45 / -45 +55 / -55 +45 / -45
2. Horizontal Slider					
3. Casement					
4. Double hung					
5. Fixed	H-R Windows Danville Window Co Florida Extruders	300 Fin Frame Fixed 341 Flange Frame Fixed Milestone 1000 Fixed	437.438 111X63 F-C601/16 Tempered Glaz Flange & Fin	FL 1291J FL 2349J FL 44J	+55 / -55 +70 / -70 +45 / -45
6. Awning					
7. Pass-through					
8. Projected					
9. Mullion	H-R Windows Florida Extruders	Mullions Milestone Tube Mull Fin Or Flange	Evaluated for use in location adhering to the Florida Building Code and where pressure requirements as determined ACSE 7 Minimum Design Load For Building and Other Structures.	FL 5782 FL 3136-R2	+45 / -45
10. Wind breaker					
11. Dual action					
12. Other					
C. PANEL WALL					
1. Sliding	Owen Corning	Norandex - Summit Manor Dbl 4.5 Dutch Lap Reynolds - Easy Street Dbl 4.5 Dutch Lap	This Evaluation is not for use within the FBC HVHZ or on Education Facilities within the State of Florida. Vinyl Sliding is limited to Type V construction as defined in Section 602.5 - TYPE V CONSTRUCTION. Type V construction is the type of construction in which the structural elements, exterior walls and interior walls are of any material permitted by this code. Compliance is valid only if the subject profile trade name is current on the VSI Vinyl Siding Certification Program.	FL 920.3 FL 920.7	+NA / -152 +NA / -152
2. Soffit	Alcoa Metal Corp	16" Vented Soffit Quad 4 Aluminum Soffit	For use as soffit only. Not for use in HVHZ	FL 4459J	46.71 PSF

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	State #	Design Pressures
D. ROOFING PRODUCTS					
1. Asphalt shingles	Owens Corning	Asphalt Shingle Ridge Vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 3663 FL 234	
2. Underlayments					
3. Roofing fasteners					
4. Nonstructural metal roof					
5. Built-up roofing					
6. Modified bitumen	Polyglass	Two layer torch down	The max design pressure for the selected assembly shall meet or exceed the Zone I design pressure determined in accordance with FBC chapter 16.	FL 1654.8 FL 1654.9	
7. Single ply roofing					
8. Roofing tiles					
9. Roofing insulation					
10. Waterproofing					
11. Wood shingles/shakes					
12. Roofing slate					
13. Liquid applied roofing					
14. Cement-adhesive coats					
15. Roof tile adhesive					
16. Spray applied polyurethane roof					
17. Roof vents	Owens Corning Stamco Inc. Lamanco	Galvanized metal roof vents	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade must be followed.	FL 5289J FL 8103J FL 3792.5	
E. SHUTTERS					
1. Storm Panels	Altrium Shutters, Inc. K&D Manufacturing All American Shutters, Inc.	5L Panel Galv. Slt Storm	This product may only be installed on concrete, hollow concrete block or wood substrates. This product is NOT suitable for installation in the High Velocity Hurricane Zone.	FL 5547J FL 2773J FL 393J	50 PSF +47 / -50
F. STRUCTURAL COMPONENTS					
1. Wood connector/anchor	United Steel Products	Anchors, Hangers Etc. Structural Components Wood Connectors	Subject to limitation and installation instructions specified in NOAA 05-0105.05	FL RL 565, 569, 572, 576, 815, 816, 817, 818, 819, 820, 821, 822, 859, 1247, 1777, 2033, 2620, 3923, 4928, 5631, 6223	
2. Truss plates	Mitek Industries Inc.	Truss Connectors	No Limitation of Use.	FL 2197 RI	
3. Engineered lumber					
4. Railing					
5. Coolers-freezers					
6. Concrete admixtures					
7. Material					
8. Insulation forms					
9. Plastics					
10. Deck roof					
11. Wall					
12. Sheds					
G. SKYLIGHTS					
1. Skylight					
2. Other					
H. NEW EXTERIOR ENVELOPE PRODUCTS					
1.					
2.					

In addition to completing the above list of manufacturers, product description and State approval number for the products used on this project, it is the Contractor's or Authorized Agent's responsibility to have a legible copy of each manufacturer's printed instructions, along with the list above, on the job site available to the Inspector.

The products listed below did not demonstrate product approval at time of plan review. I understand that before these products can be inspected, they must be submitted for review for code compliance and approved by the Plans Examiner. This form will be revised to include each new product in the categories listed above and will be highlighted to indicate the new products and required information.

Authorized Project Agent: _____
(Contractor or Design Professional) (Print Name) (Signature)

Company Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone Number: () _____ Fax Number: () _____

Cell Phone Number: () _____ E-mail Address: _____

REVISIONS: 10-29-07 UPDATE LISTS 01-21-08 UPDATE ROLL UP DOORS		FLORIDA 4005 MARONDA WAY SANFORD, FL 321-0064 (407) 321-0064 THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004: RESIDENTIAL AND 2005: 2006 SUPPLEMENT	
COPYRIGHT © 2005 MARONDA HOMES		Maronda Homes	
PRODUCT APPROVAL		DRAWN BY: _____ GARAGE: _____ RELEASE DATE: _____	
SHEET:		PLOT DATE: 21 JAN 2008	

DISTINCTION SERIES SMC INSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME

GENERAL NOTES

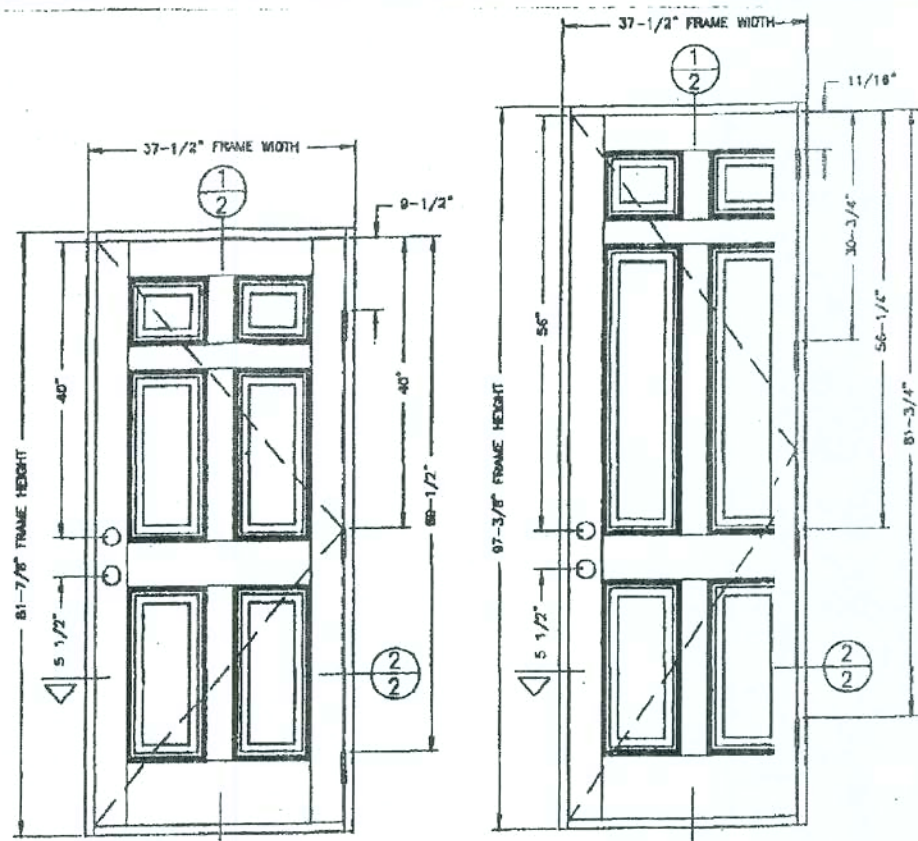
1. THE FOLLOWING PRODUCT HAS BEEN EVALUATED FOR COMPLIANCE WITH THE WIND LOADS SPECIFIED IN SECTION 120 OF THE TEXAS DEPARTMENT OF INSURANCE WINDSTORM RESISTANT CONSTRUCTION GUIDE AND SECTION 103 OF THE TEXAS WINDSTORM INSURANCE ASSOCIATION BUILDING CODE FOR WINDSTORM RESISTANT CONSTRUCTION.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. PRODUCT DOES NOT MEET IMPACT RESISTANCE.
5. DESIGN PRESSURE RATING SHALL BE AS FOLLOWS:
- FOR 6" 8" HIGH DOORS: SEE TABLE 1.
- FOR FRAMES OVER 6" 8" UP TO 8' 0": SEE TABLE 2.

DISTINCTION SMC FIBERGLASS DOOR

DOOR LEAF CONSTRUCTION:
FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.080" THICK FIBERGLASS SKIN.
CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.
CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS. THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN GLUED TO THE WOOD BLOCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.

TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	GENERAL NOTES, TYPICAL ELEVATIONS
2	CROSS SECTIONS (VERTICAL AND HORIZONTAL)
3	ANCHORING LAYOUT
4	PART LIST



TYPICAL ELEVATION 6'-0" DOOR

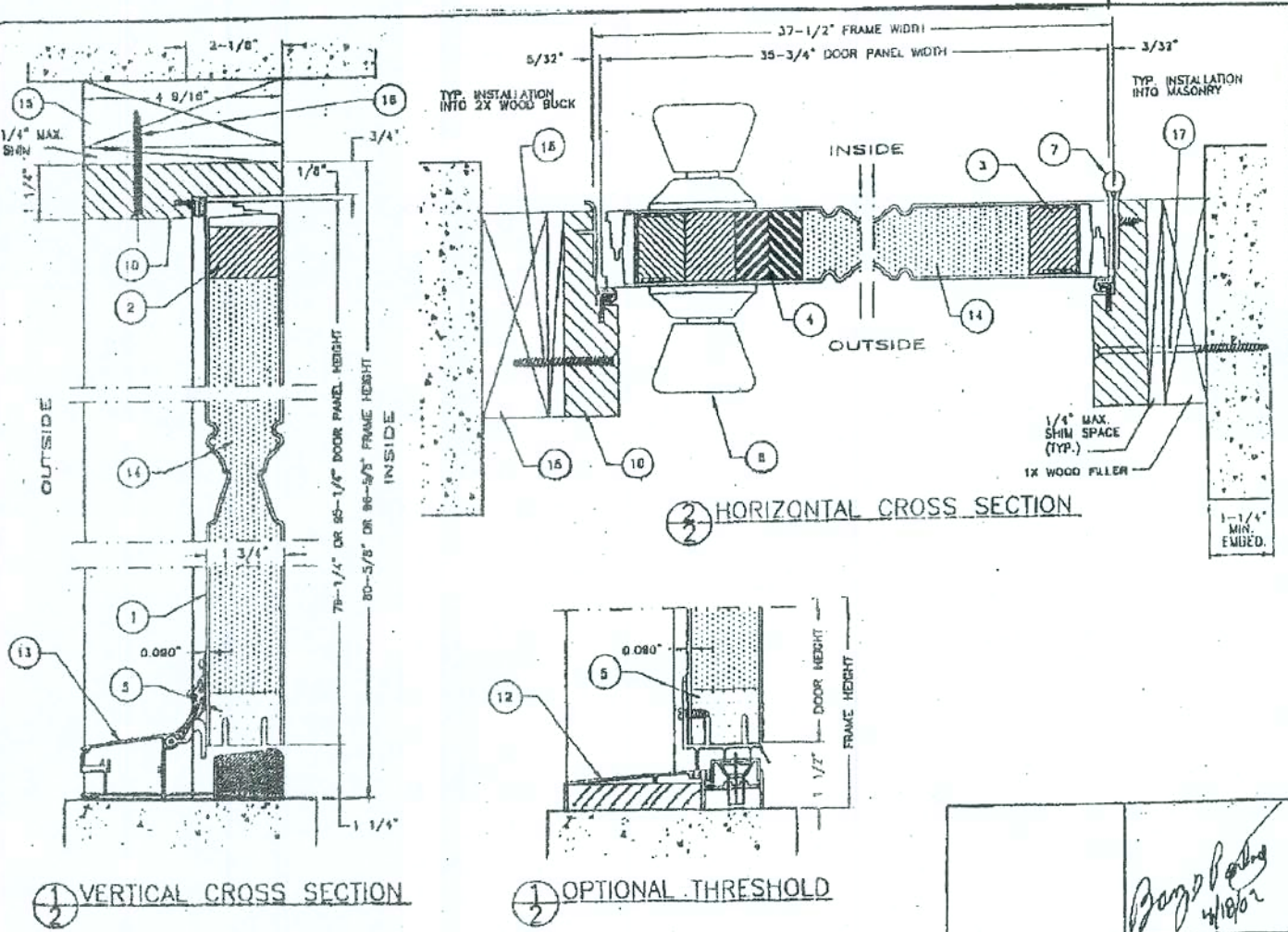
TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)	
POSITIVE	NOT APPROVED
NEGATIVE	NOT APPROVED

DESIGN PRESSURE RATING (TABLE #2)	
POSITIVE	NOT APPROVED
NEGATIVE	NOT APPROVED

CONSULTING
(613) 884-3431

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DATE: 01/06/99
SHEET 1 OF 4

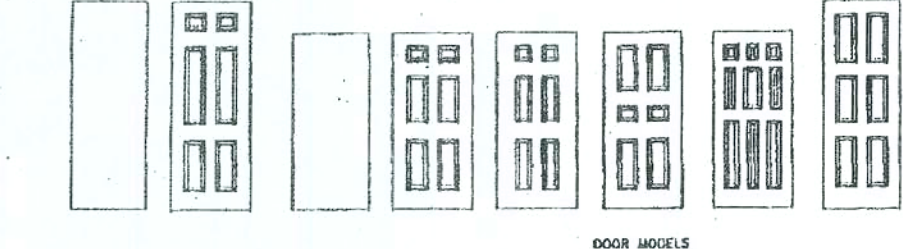
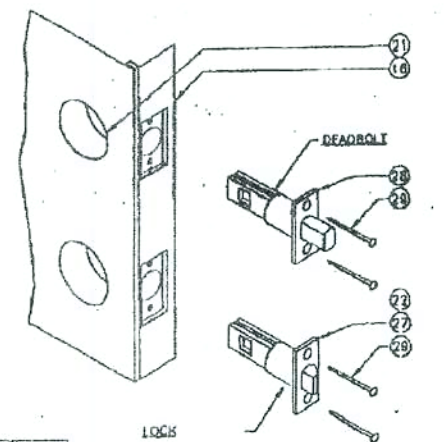


VERTICAL CROSS SECTION

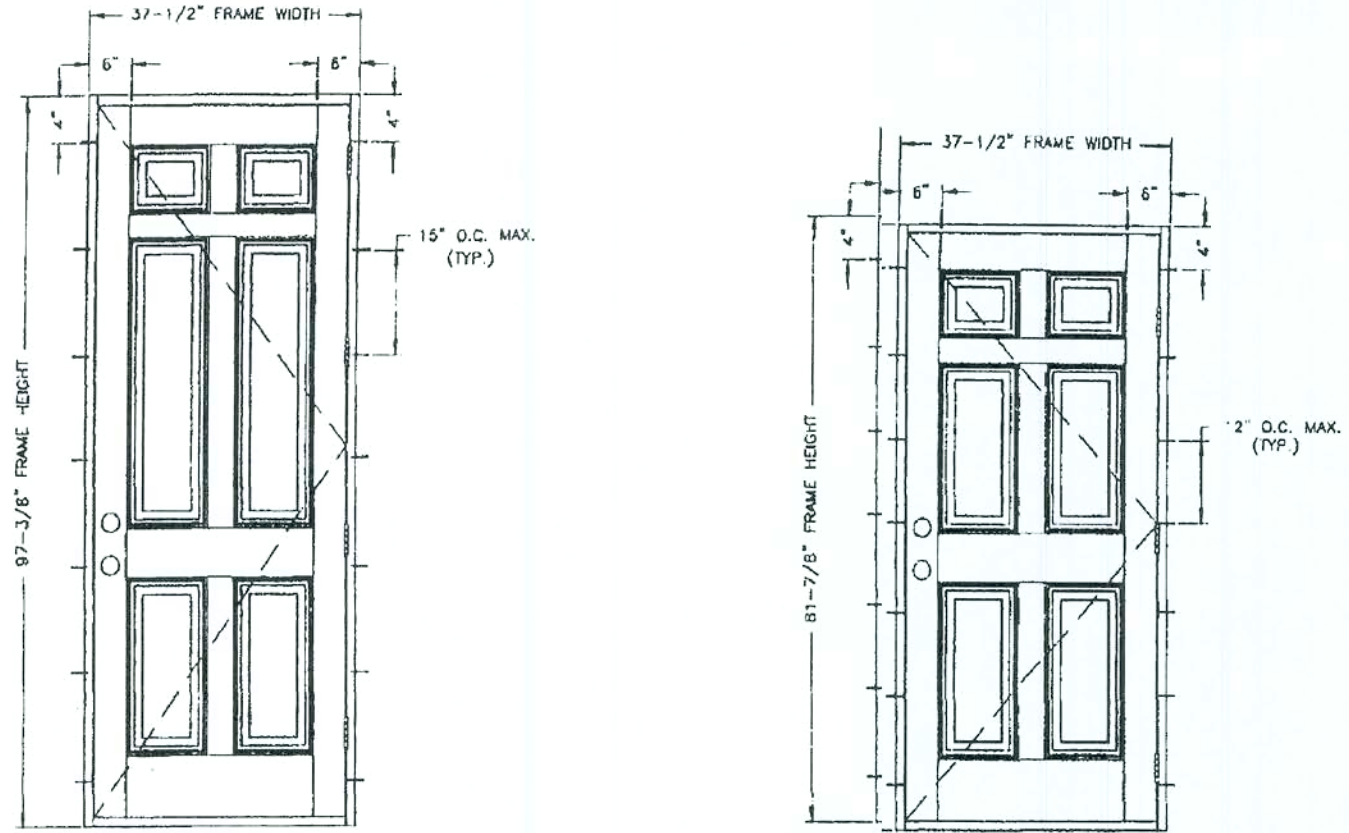
OPTIONAL THRESHOLD

NOTE:
WHEN REQ. THE USE OF 2X SHALL BE ALLOWED USING (1) EVENLY SPACED 1/4" X 3" TAPCONS IN THE SIDES, AND (2) EVENLY SPACED 1/4" X 3" TAPCONS IN THE HEADER ALL W/ 1/4" IMBEDMENT. IF NEEDED A 1X CAN BE NAILED 6" O.C. STAGGERED TO 2X. DOOR IS THEN ATTACHED PER DETAILS ON THIS PAGE.

ITEM	DESCRIPTION	PART NO.	MATERIAL
1	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
2	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
3	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
4	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
5	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
6	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
7	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
8	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
9	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
10	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
11	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
12	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
13	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
14	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
15	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
16	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS
17	DOOR SKIN (FIBERGLASS)	0.080"	FIBERGLASS



DOOR MODELS



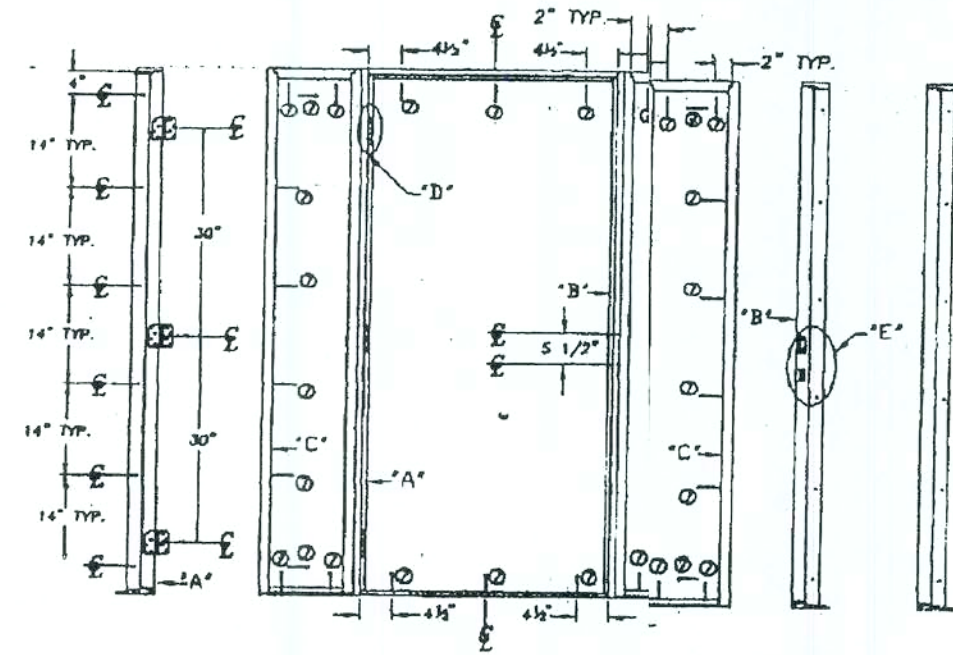
ANCHOR LAYOUT FOR 6'-0" DOOR

ANCHOR LAYOUT FOR 8'-0" DOOR

TYPICAL ANCHORS
1) INTO 2X WOOD BUCKS OR WOOD STRUCTURE
2) INTO 1BY WOOD BUCKS OR INTO MASONRY
3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

FINAL ANCHORING OF A WOOD FRAME UP TO 5'-4" X 6'-8"
SINGLE INSWING UNIT W/O SIDELITES
PRODUCT ACCEPTANCE No.: DSI222

SCREW SCHEDULE	
1) 10 X 5/8"	PHILLIPS FLAT HEAD
2) 10 X 3/4"	PHILLIPS FLAT HEAD
3) 10 X 2"	PHILLIPS FLAT HEAD
4) 10 X 3"	PHILLIPS FLAT HEAD



Product Acceptance No: DSI-222	
Size: up to 5'4" x 6'8"	Inswing (wood jamb)
Single Opaque	2'0" 2'4" 2'6" 2'8" 3'0"
W/Sidelites	+80 -80 +80 -80 +83 -80 +80 -80 +90 -80
Single Glazed	+75 -80 +64 -77 +60 -71 71 +56 -67 +50 -60
W/Sidelites	(Door does not meet Missile Impact)
Test # 210-1987, 210-2024	Mfg. by: Nan Ya Plastics / Plastipro Livingston, NJ 07039

EXT. DOOR DETAILS IN SWING-FIBERGLASS

Maronda Homes

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SANFORD, FLORIDA
4005 MARONDA WAY
321-0064
(407)

SHEET:

FDI

03 JUN 2003 09:03:33

