GEO WASHINGTON - 5B

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: GCpi = +/- 0.18

IMPORTANCE FACTOR: 1.0

NUMBER OF STORIES: TWO STORY

BUILDING MEAN ROOF HEIGHT: 25 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 R613)

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, SSTD 12, ANSI/DASMA 115 (FOR GARAGE DOORS) OR TAS201, 202 AND 203 . (FRC 2004, SECTION R301.2.1.2)

INDEX OF DRAWINGS

FLOOR TRUSSES

REVISIONS :
02-13-06 REV. WOOD TRUSS FLOOR FRAM'G
08-14-07 REV. CODE INFORMATION

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

9TM01301 JAX
1-3-01 9TM

FLORIDA.
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR STRUCTURAL 3 SEC. GUST, HD-EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

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AMERICANA — COVER SHEET

GEO. WASHINGTON

ELEVATION "B"

GARAGE: LEFT

DRAWN BY:

RELEASE DATE: 07/14/04

125 MPH

15-4201

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET: 0b

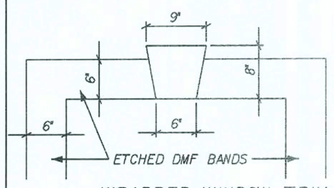
PLOT DATE: 15 JAN 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

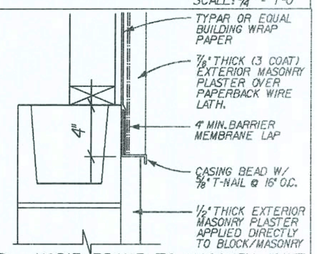
GENERAL ELEVATION NOTES:

REVISED 01-05-06

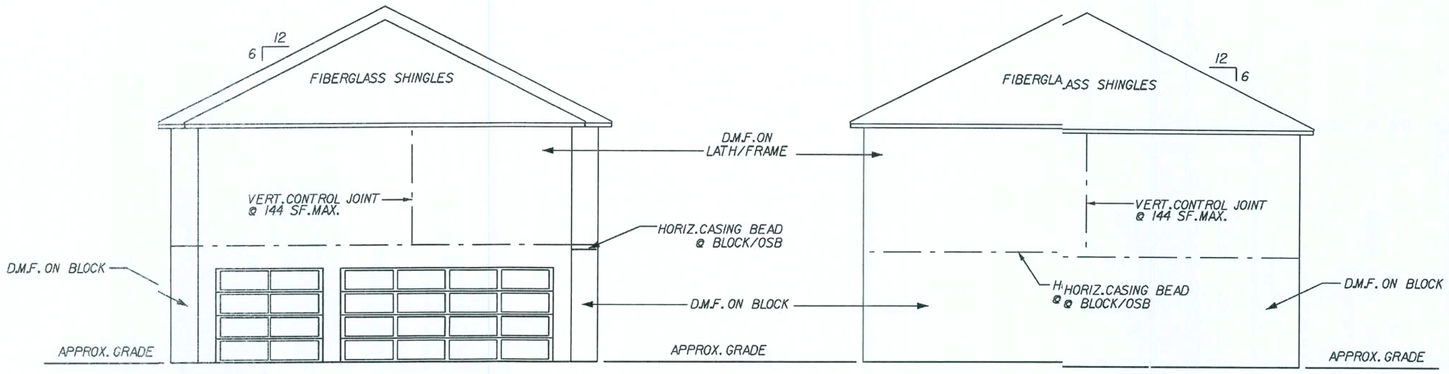
1. DMF - DECO MASONRY/STUCCO FINISH SHALL COMPLY WITH THE REQUIREMENTS OF ATSM C926 AND C1063.
2. EAVE & GABLE OVERHANGS 12" ALUM FASCIA AND SOFFITS. PLUMB CUT WITH LEVEL RETURNS.
3. 7/8" MIN. THICKNESS DMF OVER LATH/FRAME AND 1/2" MIN. THICKNESS OVER BLOCK
4. DMF/STUCCO INSTALLED OVER PAPER-BACKED LATH AND HOUSEWRAP @ ALL EXTERIOR WOOD FRAME CONSTRUCTION.



WRAPPED WINDOW TRIM
SCALE: 3/4" = 1'-0"

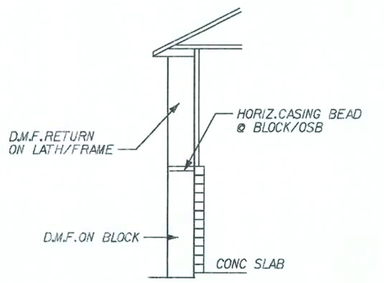


1 HORIZ. FRAME TO MASONRY JOINT
REVISED 12-11-06 SCALE: N.T.S.

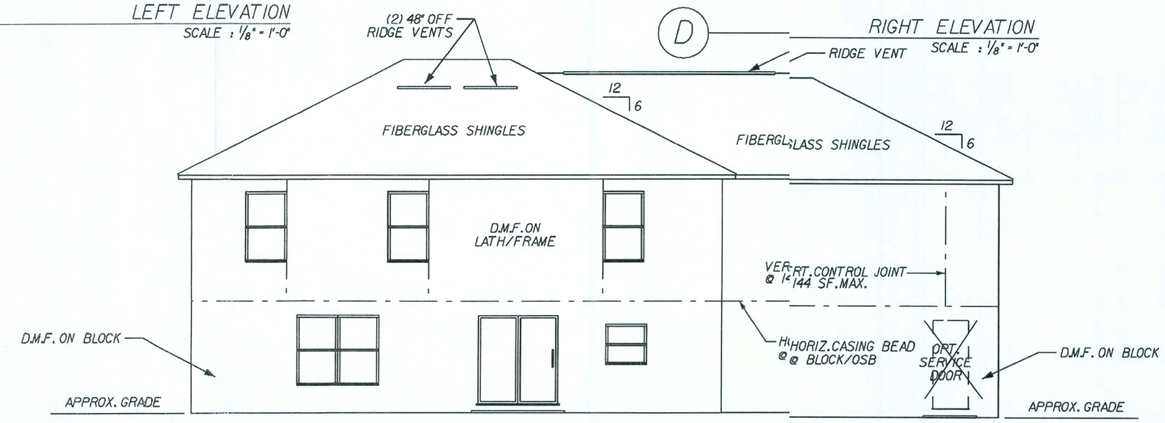


C LEFT ELEVATION
SCALE : 1/8" = 1'-0"

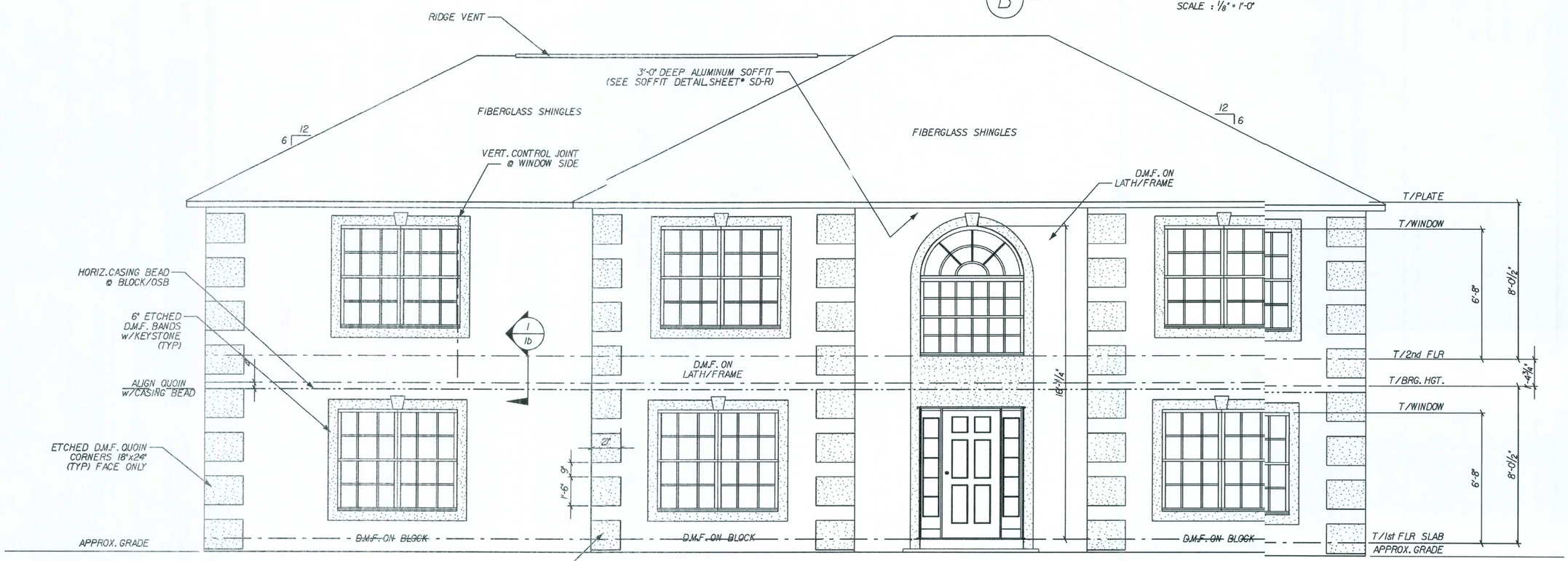
D RIGHT ELEVATION
SCALE : 1/8" = 1'-0"



E SIDE ELEVATION @ ENTRY
SCALE : 1/8" = 1'-0"



B REAR ELEVATION
SCALE : 1/8" = 1'-0"



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

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

02-13-06	REV. WOOD TRUSS FLOOR FRAM'G
08-01-06	REV. STUCCO DETAIL
09-21-07	DEL VINYL SIDING

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 - RESIDENTIAL AND 2006 SUPPLEMENT.

AMERICANA — EXT. ELEVATION

GEO. WASHINGTON

ELEVATION "B"

GARAGE: LEFT

DRAWN BY:

RELEASE DATE: 07/14/04

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

Elmer Bergman, P.E.
License No. 50158
JUL 28 2008

SHEET: 1b

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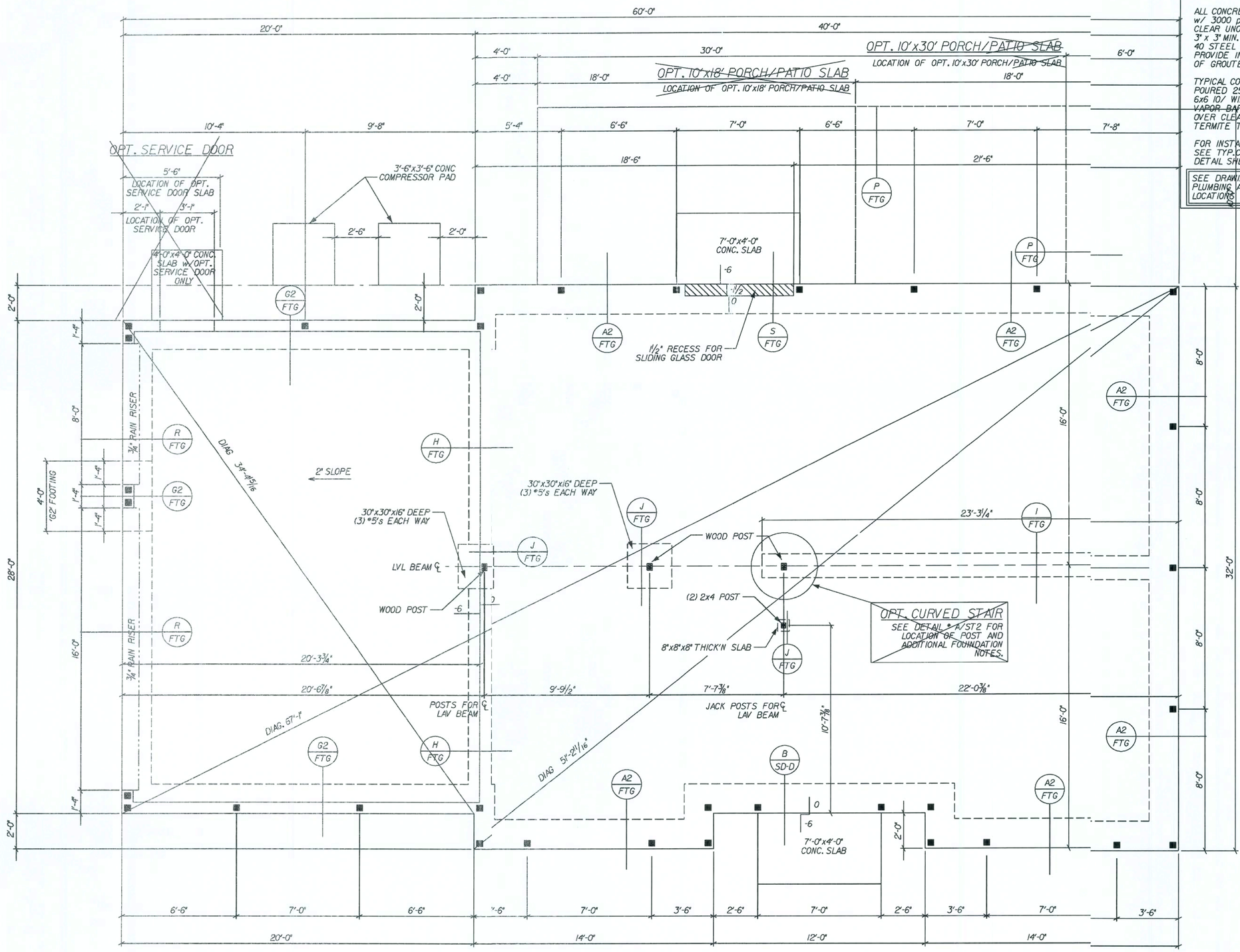
PLOT DATE: 15 JAN 2008



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 LINTEL STEEL. PROVIDE INSPECTION HOLE AT BOTTOM OF GROUTED CELL STACK.

TYPICAL CONCRETE SLAB: 3½" 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 psf. 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

REVISIONS :

04-24-06 REVISED NOTE AT GARAGE DOOR
07-18-06 ADDED DOOR PAN DETAIL MARKER
08-14-07 REV. CODE INFORMATION

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 + RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST AND EXPOSURE B WITH CONSTRUCTION. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA | FOUNDATION PLAN
GEO. WASHINGTON
ELEVATION "B"
GARAGE: LEFT
125 MPH
DRAWN BY:
RELEASE DATE: 07/14/04
15:42:03
PLOT DATE: 15 JAN 2008
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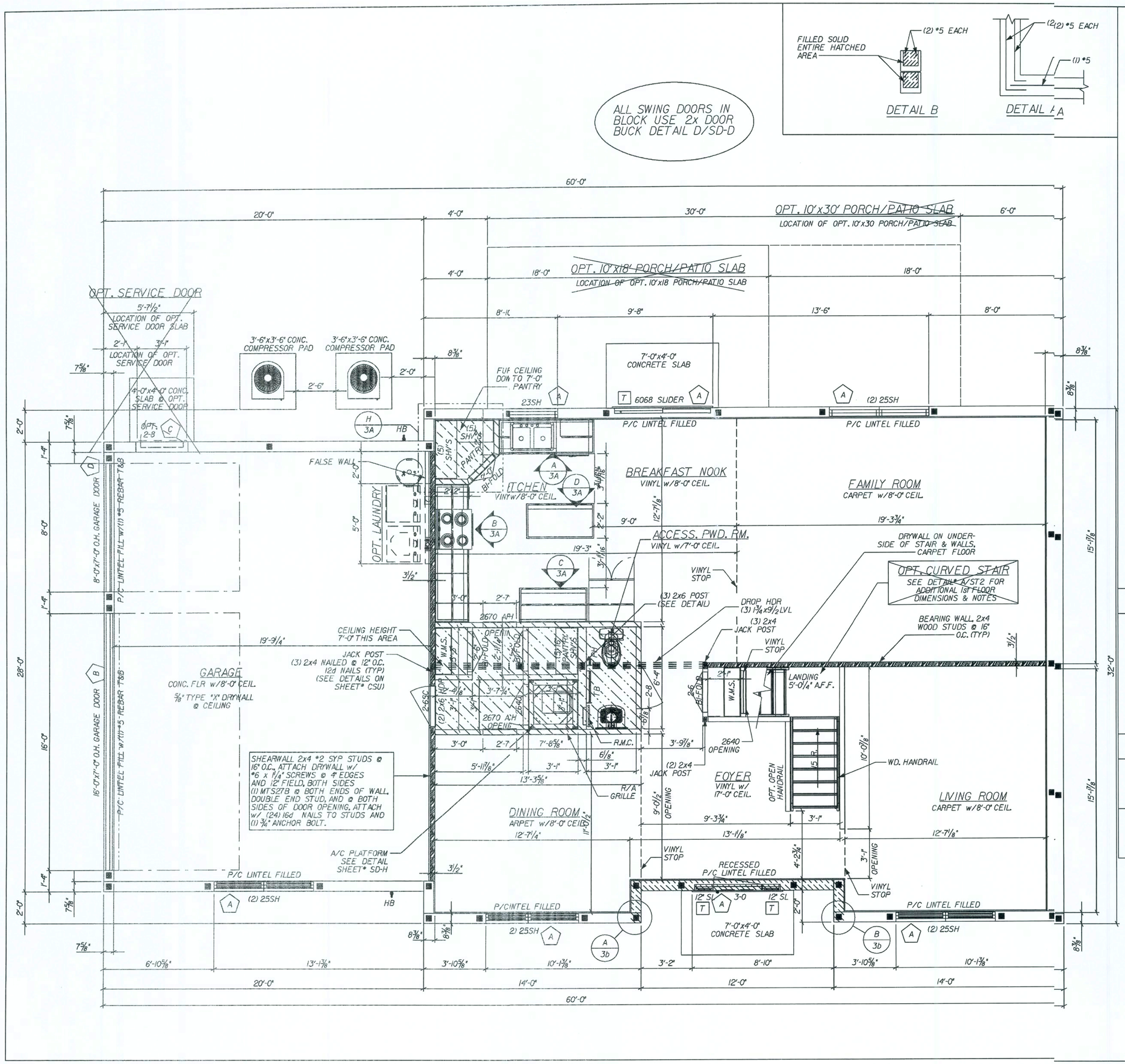
Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
JUL 28 2008

SHEET:
2b

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 7⅝" CONCRETE BLOCK w/ P.T. FURRING STRIPS IN A/C AREA. TOTAL WIDTH = 8⅜"

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 3⅝" 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 LINTEL SHEET FOR LINTEL SIZES OVER WINDOWS AND DOORS. PRECAST LINTELS 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 LINTEL LOWER COURSE WHICH SHALL BE UNFILLED, U.N.O. FOR FILLED PRECAST LINTELS, USE 3000 psi CONCRETE w/ ⅜" AGGREGATE. FOR REINFORCED PRECAST LINTELS, 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 LINTEL 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 SYP SEE PLAN FOR SIZE

ALL DRYWALL TO BE ½" THICK, U.N.O.

SC DOOR = MIN. 1⅜" THICK SOLID CORE DOOR

REVISED 10-10-07

SQUARE FOOTAGE:

1st FLOOR LIVING	1256 SQ. FT.
2nd FLOOR LIVING	1664 SQ. FT.
TOTAL LIVING	2920 SQ. FT.
GARAGE AREA	560 SQ. FT.
COVERED ENTRY	- SQ. FT.
TOTAL AREA	3480 SQ. FT.

OPENING PRESSURES 125mph:

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

REVISED 09-12-07

REVISIONS:
- 12-19-06 REV. SERVICE DOOR SWING
- 05-07-07 REV. A/C TO 2640
- 08-14-07 REV. CODE INFORMATION

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

FLORIDA, THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA 2006 SUPPLEMENT FOR 125 MPH, 3-SEC. GUST, HIGH EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA | FIRST FLOOR PLAN

GEO. WASHINGTON

ELEVATION "B"

GARAGE: LEFT

DRAWN BY: 125 MPH

RELEASE DATE: 07/14/04

15-42-04

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PLOT DATE: 15 JAN 2008

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET: 3b

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

FASTENERS SCHEDULE USING 3/16" X 2 1/4" TAPCONS THROUGH BUCK INTO BLOCK

NOTE 1) 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) 3,4,OR 5 HIGH: 3 FAST. EA. SIDE JAMB
NOTE 6) 6 HIGH 26 3/4": 4 FASTENERS IN EACH SIDE JAMB
NOTE 7) 438 WINDOW INTO FRAME OPENING: #10 X 1 3/4" SCREWS
NOTE 8) SGD FASTENED WITH: #10 1 3/4": PANHEAD ALL HOLES SILLS 3/16" X 1 3/4" ANCHORS EVERY HOLE

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. DIMENTION 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 1/2 X 81 3/4	8		6080	75 1/2 X 97 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.
23	37 3/4 X 38 3/8	2,5							
25	37 3/4" X 63"	2,5	74 3/4" X 63"	2,5	25			73 1/2 x 62 1/2	7

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

SIZE	SINGLE M.O.	FAST.				
6448 w/ 64 CT	63 1/2" X 80	7				

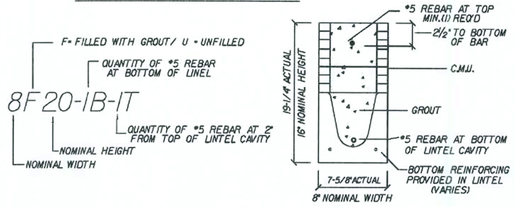
THE SPECIFIED LINTELS ON SHEET WLI ARE MANUFACTURED BY CAST-CRETE CORP. ALTERNATE MANUFACTURED LINTELS ARE AVAILABLE "BY OTHERS". SOLE AND FULL RESPONSIBILITY IS RETAINED BY THE SUB-CONTRACTOR IN THE SELECTION OF THE ALTERNATE LINTELS AS HAVING EQUAL TO OR GREATER THAN THE ACTUAL GRAVITY AND UPLIFT LOADS,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

REVISED 04-02-07

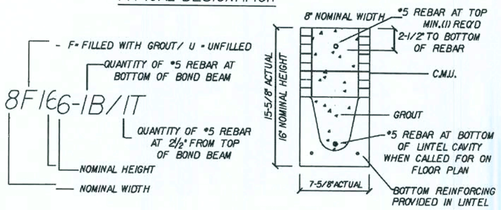
MATIRIALS

1. f'c pcast lintels = 3500 psi.
2. f'c pstressed lintels = 6000 psi.
3. f'c gut = 3000 psi w/ maximum 3/8" agregate.
4. Concte masonry units (CMU) per AST C90 w/ minimum net area compassive strength = 1900 psi.
5. Rebar provided in precast lintel per ASTM A615 GR60. Field rebar per ASTM A615 GR40 or GR60.
6. Presassing strand per ASTM A416 grad 270 low relaxation.
7. 7/32 wire per ASTM A510.
8. Mortarer ASTM C270 type M or S.

TYPICAL GARAGE DESIGNATION



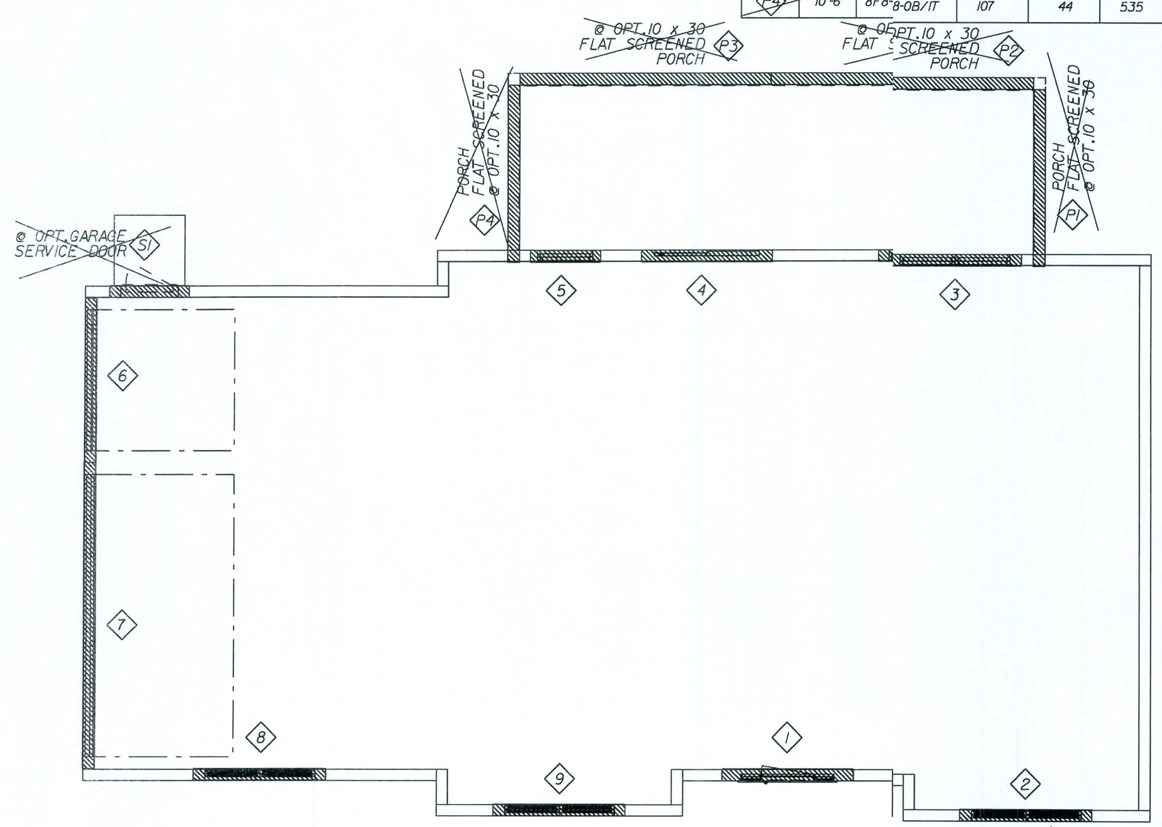
TYPICAL DESIGNATION



REVISED 12/29/04

CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	APPLIED LOADS (PLF) GRAVITY	APPLIED LOADS (PLF) UPLIFT	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENT
1	7'-0"	8RF14-0B/IT	138	219	2459	1462	RECESSED
2	7'-6"	8F16 16-0B/IT	92	166	2632	1634	-
3	7'-6"	8F16 16-0B/IT	92	166	2632	1634	-
4	7'-6"	8F16 16-0B/IT	138	219	2632	1634	-
5	4'-6"	8U16 16-0B/IT	138	219	1599	2724	-
6	9'-4"	8F20 20-IB/IT	1273	520	2564	1471	GARAGE DOOR
7	17'-4"	8F20 20-IB/IT	1273	520	1326	520	GARAGE DOOR
8	7'-6"	8F16 16-0B/IT	138	219	2632	1634	-
9	7'-6"	8F16 16-0B/IT	85	176	2632	1634	-
S1	4'-6"	8U16 16-0B/IT	138	177	1599	2724	-
P1	10'-6"	8F8 8-0B/IT	107	44	535	530	@ OPT. PORCH
P2	14'-8"	8F8 8-0B/IT	190	210	458	239	@ OPT. PORCH
P3	14'-8"	8F8 8-0B/IT	190	210	458	239	@ OPT. PORCH
P4	10'-6"	8F8 8-0B/IT	107	44	535	530	@ OPT. PORCH



REVISIONS :
02-13-06 REV. WOOD TRUSS FLOOR FRAM'G
08-14-07 REV. CODE INFORMATION

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004, RESIDENTIAL AND 2005, 2006 SUPPLEMENT. FOR 125 MPH, 3 SEC. GUST, HVD EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

AMERICANA — WINDOW/LINTEL
GEO. WASHINGTON
ELEVATION 'B'
GARAGE: LEFT
125 MPH
DRAWN BY:
RELEASE DATE: 09/01/04
15:42:05
PLOT DATE: 15 JAN 2008
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Maronda Systems
4005 Maronda Way
Sanford, FL 32771
(407)321-0064

Elmer Bergman, P.E.
License No. 50158
JUL 28 2008

SHEET:
WLI

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

POWER LINTEL – PSbox8 (5-5/8") 6" DEPTH FILLED AND UNFILLED

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)					
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	NO FILL NO REBAR DETAIL "A"	FILLED #5 TOP DETAIL "B"	FILLED #5 T&B DETAIL "C"
M-1	1'-6"	2'-10"	960	7775	7775
M-2	2'-2"	3'-6"	665	5360	5360
* M-3	2'-4"	3'-8"	617	4982	4982
M-4	2'-8"	4'-0"	540	4353	4353
* M-5	2'-10"	4'-2"	508	4095	4095
* M-6	3'-0"	4'-4"	480	3865	3865
M-7	3'-2"	4'-6"	455	3378	3655
* M-8	3'-4"	4'-8"	432	3044	3474
M-9	4'-0"	5'-4"	360	2100	2857
* M-10	4'-4"	5'-8"	333	1932	2770
M-11	4'-6"	5'-10"	320	1850	2373
M-12	4'-2"	6'-6"	279	1240	1789
* M-13	5'-4"	6'-8"	271	1161	1676
M-14	6'-2"	7'-6"	233	857	1242
* M-15	6'-4"	7'-8"	228	810	1175
M-16	7'-0"	8'-4"	208	655	954
M-17	8'-0"	9'-4"	240	481	720
* M-18	8'-4"	9'-8"	231	449	660
M-19	9'-2"	10'-6"	209	353	537
M-20	10'-0"	11'-4"	178	258	444
M-21	11'-2"	12'-6"	128	230	347
M-22	12'-0"	13'-4"	103	183	294
M-23	12'-8"	14'-0"	103	168	252

* DENOTES TYPICAL DOOR SIZE OPENINGS (INCLUDING DOOR JAMB).

POWER LINTEL – PSbox8 (7-5/8") 8" DEPTH FILLED AND UNFILLED

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)					
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	NO FILL NO REBAR DETAIL "D"	FILLED #5 TOP DETAIL "E"	FILLED #5 T&B DETAIL "F"
L-1	1'-6"	2'-10"	933	7229	7229
L-2	2'-2"	3'-6"	646	4986	4986
L-3	2'-8"	4'-0"	524	4040	4040
L-4	3'-2"	4'-6"	442	3397	3397
L-5	4'-0"	5'-4"	350	2673	2673
L-6	4'-6"	5'-10"	311	2369	2369
L-7	5'-2"	6'-6"	271	2056	2056
L-8	6'-2"	7'-6"	227	1574	1713
L-9	7'-0"	8'-4"	200	1170	1502
L-10	8'-0"	9'-4"	240	881	1206
L-11	9'-2"	10'-6"	209	657	904
L-12	10'-0"	11'-4"	192	542	750
L-13	11'-2"	12'-6"	176	423	590
L-14	12'-0"	13'-4"	160	358	503
L-15	12'-8"	14'-0"	152	315	445
L-16	13'-4"	14'-8"	144	279	396
L-17	14'-0"	15'-4"	137	247	353
L-18	16'-0"	17'-4"		175	256
L-19	18'-0"	19'-4"		157	211
L-20	18'-8"	20'-0"		142	192
L-21	20'-8"	22'-0"		104	145
L-22	22'-8"	24'-0"		76	110

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL – PSbox8 (7-5/8") 12" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED #5 TOP DETAIL "G"	FILLED #5 T&B DETAIL "GG"
L-1	1'-6"	2'-10"	9030	9030
L-2	2'-2"	3'-6"	6224	6224
L-3	2'-8"	4'-0"	5041	5041
L-4	3'-2"	4'-6"	4231	4231
L-5	4'-0"	5'-4"	3331	3331
L-6	4'-6"	5'-10"	2951	2951
L-7	5'-2"	6'-6"	2559	2559
L-8	6'-2"	7'-6"	2130	2130
L-9	7'-0"	8'-4"	1866	1866
L-10	8'-0"	9'-4"	1575	1621
L-11	9'-2"	10'-6"	1179	1404
L-12	10'-0"	11'-4"	978	1279
L-13	11'-2"	12'-6"	796	1044
L-14	12'-0"	13'-4"	651	892
L-15	12'-8"	14'-0"	575	792
L-16	13'-4"	14'-8"	511	706
L-17	14'-0"	15'-4"	455	632
L-18	16'-0"	17'-4"	328	463
L-19	18'-0"	19'-4"	286	400
L-20	18'-8"	20'-0"	260	365
L-21	20'-8"	22'-0"	195	281
L-22	22'-8"	24'-0"	147	219

POWER LINTEL – PSbox8 (5-5/8") 14" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "H"	FILLED W/ #5 T&B DETAIL "HH"
M-1	1'-6"	2'-10"	11377	11377
M-2	2'-2"	3'-6"	7845	7845
* M-3	2'-4"	3'-8"	7278	7278
M-4	2'-8"	4'-0"	6355	6355
* M-5	2'-10"	4'-2"	5975	5975
* M-6	3'-0"	4'-4"	5638	5638
M-7	3'-2"	4'-6"	5336	5336
* M-8	3'-4"	4'-8"	5064	5054
M-9	4'-0"	5'-4"	4203	4203
* M-10	4'-4"	5'-8"	4031	4031
M-11	4'-6"	5'-10"	3725	3725
M-12	5'-2"	6'-6"	3231	3231
* M-13	5'-4"	6'-8"	3127	3127
M-14	6'-2"	7'-6"	2691	2691
* M-15	6'-4"	7'-8"	2617	2617
M-16	7'-0"	8'-4"	2358	2358
M-17	8'-0"	9'-4"	2051	2051
* M-18	8'-4"	9'-8"	1965	1965
M-19	9'-2"	10'-6"	1777	1777
M-20	10'-0"	11'-4"	1571	1620
M-21	11'-2"	12'-6"	1240	1413
M-22	12'-0"	13'-4"	1060	1210
M-23	12'-8"	14'-0"	941	1079

* DENOTES TYPICAL DOOR SIZE OPENINGS (INCLUDING DOOR JAMB).

POWER LINTEL – PSbox8 (7-5/8") 16" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (S/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "I"	FILLED W/ #5 T&B DETAIL "II"
L-1	1'-6"	2'-10"	10831	6831
L-2	2'-2"	3'-6"	7463	7463
L-3	2'-8"	4'-0"	6041	6041
L-4	3'-2"	4'-6"	5069	5069
L-5	4'-0"	5'-4"	3989	3989
L-6	4'-6"	5'-10"	3533	3533
L-7	5'-2"	6'-6"	3062	3062
L-8	6'-2"	7'-6"	2547	2547
L-9	7'-0"	8'-4"	2230	2230
L-10	8'-0"	9'-4"	1936	1936
L-11	9'-2"	10'-6"	1675	1675
L-12	10'-0"	11'-4"	1526	1526
L-13	11'-2"	12'-6"	1354	1354
L-14	12'-0"	13'-4"	1252	1252
L-15	12'-8"	14'-0"	1169	1180
L-16	13'-4"	14'-8"	1044	1115
L-17	14'-0"	15'-4"	936	1022
L-18	16'-0"	17'-4"	689	755
L-19	18'-0"	19'-4"	515	588
L-20	18'-8"	9'-4"	474	535
L-21	20'-8"	22'-0"	385	418
L-22	22'-8"	24'-0"	284	327
L-23	24'-0"	25'-4"	334	384
L-24	26'-0"	27'-4"	267	309
L-25	28'-0"	29'-4"	214	251
L-26	30'-0"	31'-4"	171	203

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL PSbox8 (7-5/8") 20" COMPOSITE

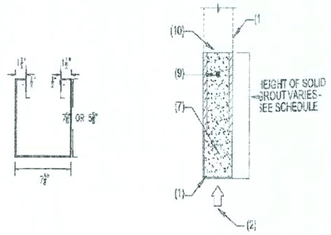
SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (S/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "J"	FILLED W/ #5 T&B DETAIL "JJ"
L-1	1'-6"	2'-10"	12632	12632
L-2	2'-2"	3'-6"	8701	8701
L-3	2'-8"	4'-0"	7042	7042
L-4	3'-2"	4'-6"	5908	5908
L-5	4'-0"	5'-4"	4647	4847
L-6	4'-6"	5'-10"	4114	4114
L-7	5'-2"	6'-6"	3565	3565
L-8	6'-2"	7'-6"	2963	2963
L-9	7'-0"	8'-4"	2593	2593
L-10	8'-0"	9'-4"	2251	2251
L-11	9'-2"	10'-6"	1948	1948
L-12	10'-0"	11'-4"	1772	1772
L-13	11'-2"	12'-6"	1572	1572
L-14	12'-0"	13'-4"	1453	1453
L-15	12'-8"	14'-0"	1369	1369
L-16	13'-4"	14'-8"	1293	1293
L-17	14'-0"	15'-4"	1225	1225
L-18	16'-0"	17'-4"	989	1053
L-19	18'-0"	19'-4"	881	946
L-20	18'-8"	20'-0"	818	868
L-21	20'-8"	22'-0"	641	682
L-22	22'-8"	24'-0"	508	543
L-23	24'-0"	25'-4"	484	529
L-24	26'-0"	27'-4"	391	511
L-25	28'-0"	29'-4"	317	420
L-26	30'-0"	31'-4"	258	348

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL PSbox8 (7-5/8") 24" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (S/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "K"	FILLED W/ #5 T&B DETAIL "KK"
L-1	1'-6"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	6748	6748
L-5	4'-0"	5'-4"	5305	5305
L-6	4'-6"	5'-10"	4695	4695
L-7	5'-2"	6'-6"	4068	4068
L-8	6'-2"	7'-6"	3380	3380
L-9	7'-0"	8'-4"	2957	2957
L-10	8'-0"	9'-4"	2566	2566
L-11	9'-2"	10'-6"	2218	2218
L-12	10'-0"	11'-4"	2019	2019
L-13	11'-2"	12'-6"	1790	1790
L-14	12'-0"	13'-4"	1653	1653
L-15	12'-8"	14'-0"	1557	1557
L-16	13'-4"	14'-8"	1471	1471
L-17	14'-0"	15'-4"	1393	1393
L-18	16'-0"	17'-4"	1197	1197
L-19	18'-0"	19'-4"	1201	1336
L-20	18'-8"	20'-0"	1104	1262
L-21	20'-8"	22'-0"	869	1037
L-22	22'-8"	24'-0"	693	832
L-23	24'-0"	25'-4"	625	918
L-24	26'-0"	27'-4"	407	757
L-25	28'-0"	29'-4"	413	622
L-26	30'-0"	31'-4"	337	525

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM



TYPICAL POWER BOX LINTEL SECTION

POWER LINTEL PSbox8 (7-5/8") 32" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "I"	FILLED W/ #5 T&B DETAIL "LL"
L-1	1'-6"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	--	--
L-5	4'-0"	5'-4"	--	--
L-6	4'-6"	5'-10"	--	--
L-7	5'-2"	6'-6"	5074	5074
L-8	6'-2"	7'-6"	4214	4214
L-9	7'-0"	8'-4"	3685	3685
L-10	8'-0"	9'-4"	3196	3196
L-11	9'-2"	10'-6"	2760	2760
L-12	10'-0"	11'-4"	2511	2511
L-13	11'-2"	12'-6"	2225	2225
L-14	12'-0"	13'-4"	2055	2055
L-15	12'-8"	14'-0"	1934	1934
L-16	13'-4"	14'-8"	1825	1826
L-17	14'-0"	15'-4"	1729	1729
L-18	16'-0"	17'-4"	1484	1484
L-19	18'-0"	19'-4"	1585	1585
L-20	18'-8"	20'-0"	1520	1520
L-21	20'-8"	22'-0"	1267	1350
L-22	22'-8"	24'-0"	1014	1211
L-23	24'-0"	25'-4"	905	1131
L-24	26'-0"	27'-4"	727	1026
L-25	28'-0"	29'-4"	604	929
L-26	30'-0"	31'-4"	492	860
L-27	32'-0"	33'-4"	409	637
L-28	34'-0"	35'-4"	336	555
L-29	36'-0"	37'-4"	275	471

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

POWER LINTEL PSbox8 (7-5/8") 40" COMPOSITE

SUPERIMPOSED GRAVITY LOAD – POUNDS PER LINEAR FOOT (LBS/FT)				
MARK NO.	NOMINAL CLEAR SPAN	TOTAL LINTEL LENGTH	FILLED W/ #5 TOP DETAIL "N"	FILLED W/ #5 T&B DETAIL "NN"
L-1	1'-6"	2'-10"	--	--
L-2	2'-2"	3'-6"	--	--
L-3	2'-8"	4'-0"	--	--
L-4	3'-2"	4'-6"	--	--
L-5	4'-0"	5'-4"	--	--
L-6	4'-6"	5'-10"	--	--
L-7	5'-2"	6'-6"	6080	6080
L-8	6'-2"	7'-6"	5048	5048
L-9	7'-0"	8'-4"	4413	4413
L-10	8'-0"	9'-4"	3826	3826
L-11	9'-2"	10'-6"	3303	3303
L-12	10'-0"	11'-4"	3004	3004
L-13	11'-2"	12'-6"	2660	2660
L-14	12'-0"	13'-4"	2456	2456
L-15	12'-8"	14'-0"	2312	2312
L-16	13'-4"	14'-8"	2182	2182
L-17	14'-0"	15'-4"	2064	2064
L-18	16'-0"	17'-4"	1771	1771
L-19	18'-0"	19'-4"	1833	1833
L-20	18'-8"	20'-0"	1758	1758
L-21	20'-8"	22'-0"	1560	1560
L-22	22'-8"	24'-0"	1335	1632
L-23	24'-0"	25'-4"	1185	1304
L-24	26'-0"	27'-4"	968	1181
L-25	28'-0"	29'-4"	795	1077
L-26	30'-0"	31'-4"	656	986
L-27	32'-0"	33'-4"	542	866
L-28	34'-0"	35'-4"	447	724
L-29	36'-0"	37'-4"	368	624
L-30	38'-0"	39'-4"	301	531
L-31	40'-0"	41'-4"	244	451

NOTE: ALL LINTELS GREATER THAN 22'-8" IN LENGTH WILL REQUIRE (2) #5 BARS TOP OR (2) #5 BARS TOP & BOTTOM

GRAVITY LOADS

NOTES:

1. PRODUCT NAME (PATENT NO. 5287299)

   PREFORMED POWERS STEEL LINTEL SHALL BE GALVANIZED COIL STEEL AS MANUFACTURED BY POWERS STEEL AND WIRE PRODUCTS, INC. STEEL GRADE SHALL BE ASTM A653 GRADE C (FY = 40 ksi)

   NOTE: DEFORMATIONS DO NOT REFLECT STRUCTURAL CAPACITY

   FOR SPANS LESS THAN 16'-0" BOX LINTELS TO BE 11 GA. FOR SPANS GREATER THAN AND EQUAL TO 16'-0" BOX LINTELS TO BE 10 GA.

2. SHORE LINTELS AS REQUIRED TO COMPENSATE FOR DEAD LOAD DEFLECTION ON NON-CURED MASONRY GROUT. ALL LINTELS GREATER THAN 16'-0" ARE SOLD WITH 1/2" CAMBER.

3. LINTEL TO BE USED WITH BRICK OR CONCRETE MASONRY UNITS HAVING MINIMUM f'm AS SHOWN.

4. STEEL SURFACES IN CONTACT WITH GROUT AND/OR MORTAR SHALL BE UNPAINTED AND FREE OF MATERIAL THAT MIGHT INHIBIT BOND.

5. DESIGN MEANING OF POWERS STEEL LINTELS IS 8" FOR ALL LINTELS GREATER THAN 16'-0" IN SPAN OR GREATER THAN 12" IN DEPTH. ALL OTHER LINTELS REQUIRE A MINIMUM OF 4" BEARING PER THE STANDARD AND FLORIDA BUILDING CODES.

6. f'm = 1500 psi. MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N.

7. GROUT = 3,000 psi SLUMP RANGE: 8" TO 11". ROD OR VIBRATE GROUT ADEQUATELY TO ENSURE CONSOLIDATION OF GROUT (NO AIR POCKETS). GROUT SHALL COMPLY WITH ASTM C476-11 AND BE EITHER COARSE OR FINE GROUT.

8. MORTAR: TYPE "S" OR TYPE "M" 1800 psi

9. TOP REINFORCING OR TOP OF WALL REINFORCING IS REQUIRED BY CODES TO PROVIDE A CONTINUOUS TIE AROUND A STRUCTURE AND TO PROVIDE FOR UPLIFT RESISTANCE AT LINTELS.

10. ATTACHMENTS TO TOP OF WALL PER ARCHITECTURAL AND/OR ENGINEERING DRAWINGS

11. LIMITATIONS:

    THE LINTELS SHALL NOT EXCEED THE ALLOWABLE DESIGN LOADS AND SPANS SHOWN IN THIS REPORT.

    THE LINTELS SHALL NOT BE USED IN A FIRE RESISTANCE RATED ASSEMBLY UNLESS A TEST REPORT DOCUMENTING FIRE RESISTANCE IS SUBMITTED TO THE BUILDING OFFICIAL.

    A PROPER BARRIER IS REQUIRED WHEN USING CORROSIVE LUMBER PRODUCTS IN CONTACT WITH THE STEEL LINTELS. A PROPER BARRIER WOULD BE A POLYETHYLENE BARRIER WITH A 10 MIL THICKNESS OR TO MAINTAIN A MIN. 1/8" SPACING BETWEEN THE CORROSIVE LUMBER AND STEEL LINTEL.

    DECORATIVE CEMENTITIOUS COATING CANNOT BE APPLIED.

    NOT FOR USE IN THE WISE IN MIAMI OR BROWARD COUNTIES AT THIS TIME. MIAMI DADE COMPLIANCE IS BEING SOUGHT.

12. DEFLECTION LIMITS ARE SET TO LINK FOR ALL LOADS SHOWN ABOVE THE DARKENED SOLID LINE. DEFLECTION LIMITS ARE SET TO L/360 (LIVE LOAD) AND L/240 (DEAD + LIVE LOAD) FOR ALL LOADS SHOWN BELOW DARKENED SOLID LINE.

13. ALL LOADS SHOWN IN TABLES ARE SUPERIMPOSED LOADS. TABLES ARE DATED 10/2014 AND CLEARLY INDICATE SUPERIMPOSED LOADS

14. #3 REINFORCING BAR(S) GRADE 40 ARE TO SET APPROX. 1-1/2" FROM TOP OF ALL LINTEL DEPTHS AND IN SOME CASES THE BOTTOM OF LINTEL AS SHOWN ON LOAD TABLES. TOP HORIZONTAL REINFORCEMENT IS TO BE A CONTINUOUS TIE AS NOTED IN NOTE #9. IN THE CASE THAT THE LINTEL IS NOT WITHIN A COMPOSITE BOND BEAM SYSTEM, TOP HORIZONTAL REINFORCEMENT IS TO EXTEND 2'-0" PAST INSIDE OF JAMBS

15. MANUFACTURER:

    POWERS STEEL
    41138 E. ELWOOD PHOENIX, AZ 85040
    PHP 602-437-1160 FAX# 602-437-5409
    PSP 904-281-4486 FAX# 904-619-0481 (REVISE)

16. TECHNICAL DATA AND ENGINEERING POWERS LINTELS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

    - IBC/UBC 1997-99 1629
    - STANDARD BUILDING CODE - 1994
    - FLORIDA BUILDING CODE - 2001 W/ 2003 REVISIONS.
    - AISI LIGHT GAGE COLD FORMED DESIGN - 1996
    - ALT 100-02 ACI 530-02/TMS 402-02

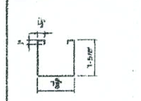
    TECHNICAL ASSISTANCE IS AVAILABLE FROM THE MANUFACTURER ON SPECIAL DESIGN CONCERNS OR LINTEL DEPTHS DIFFERENT THAN THOSE SHOWN IN THE LOAD TABLES

    STRUCTURAL ENGINEER FOR POWERS LINTELS IS:

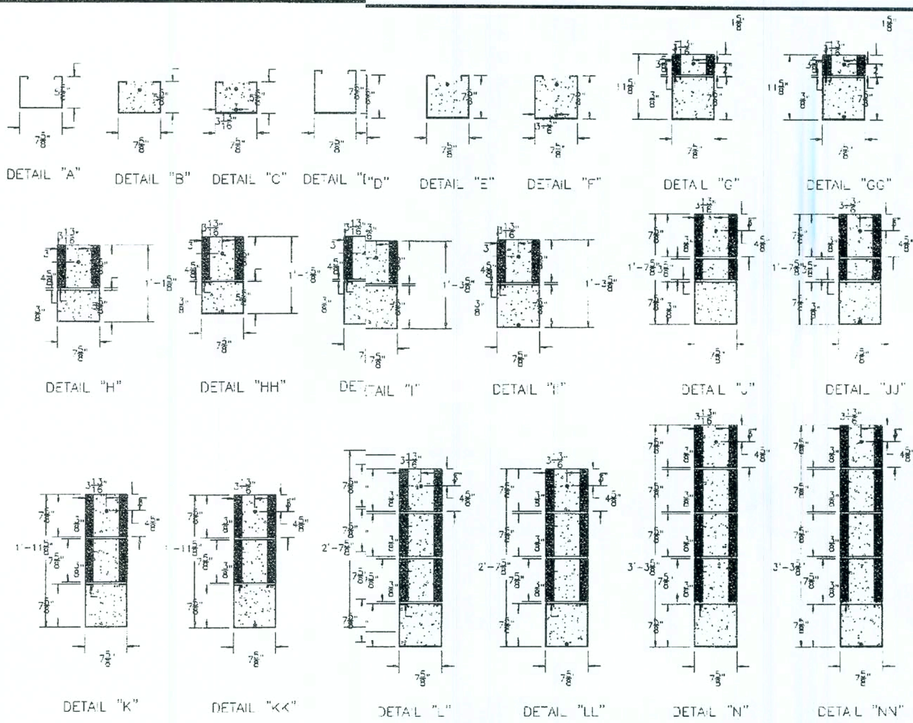
    S.E. CONSULTANTS, INC.
    5800 E. THOMAS RD. SUITE 104
    SCOTTSDALE, AZ 85251
    PHONE No. (480) 946-3470
    FAX (480) 945-1909

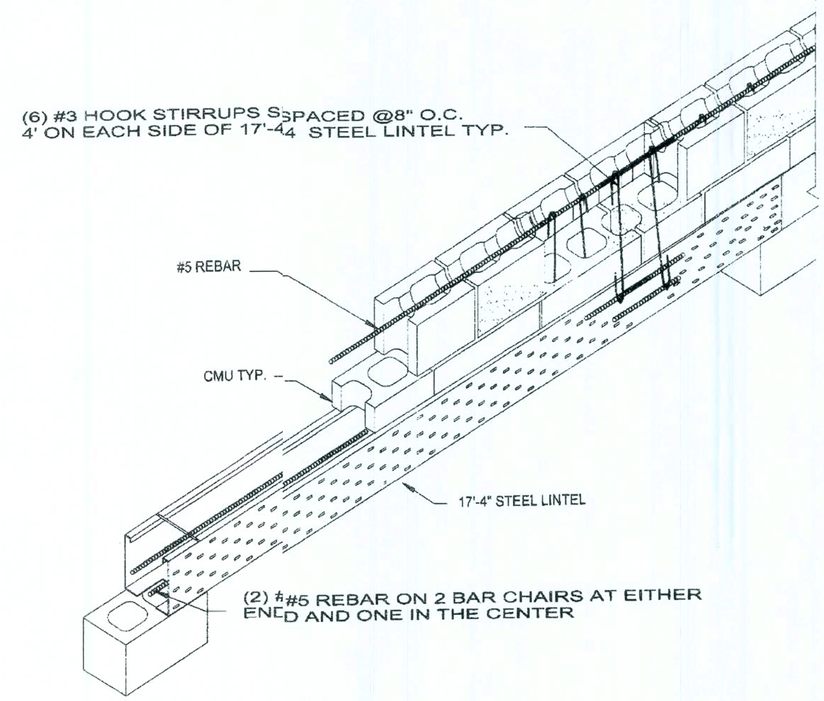
    IF AN INSPECTOR, CONTRACTOR, SUBCONTRACTOR, OR PLANS EXAMINER HAS ANY TECHNICAL QUESTIONS PLEASE CALL.

17. INSTALLATION:
    POWERS LINTELS ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD CONSTRUCTION PRACTICES, SET TO PROPER LINE AND LEVEL, PLUMB AND TRUE, AND IN CORRECT RELATION TO OTHER WORK.



PSbox8 STEEL LINTELS
NOTE: NO SCALE
16 GAGE IS .059 INCHES THICK.
14 GAGE IS .072 INCHES THICK.





S.E. CONSULTANTS, Inc.
Structural Engineering Consultants
5800 East Thomas Road, Suite 104
Scottsdale, AZ 85251
(602)437-1160
Fax (602)437-5409

JOB NAME
JOB NO. 2121-01
ADDRESS
CONTRACTOR
DWG NO.

DESCRIPTION | BY | DATE

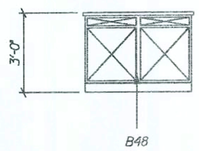
ARCHITECT
ENGINEER

POWERS STEEL & WIRE
(602) 437-1160 FAX 437-5409

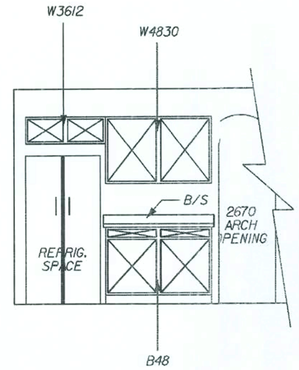
DETAILER
DATE NOV 2004
SCALE
NO

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

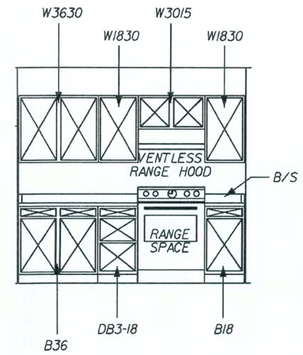
ISLAND > 48" ADD (1) BATTON MOLDING AT PANEL JOINT



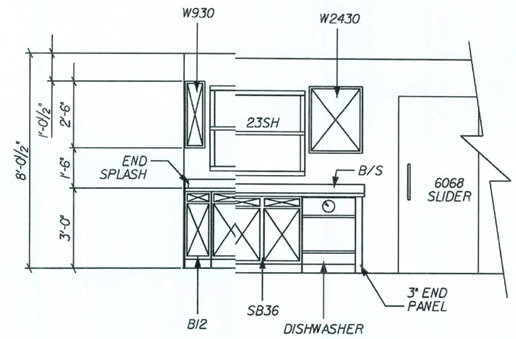
D — KITCHEN ELEVATION



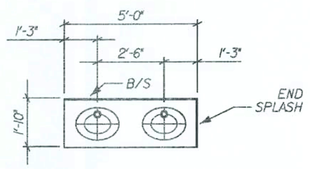
C — KITCHEN ELEVATION



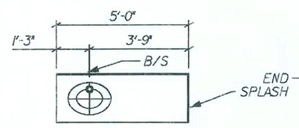
B — KITCHEN ELEVATION



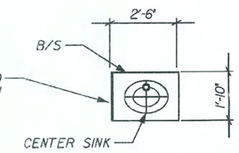
A — KITCHEN ELEVATION



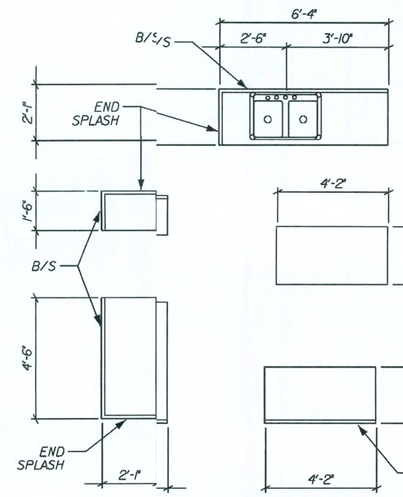
OPTIONAL DBL. SINK - MASTER BATH VANITY



STANDARD LAV. TOP MASTER BATH VANITY

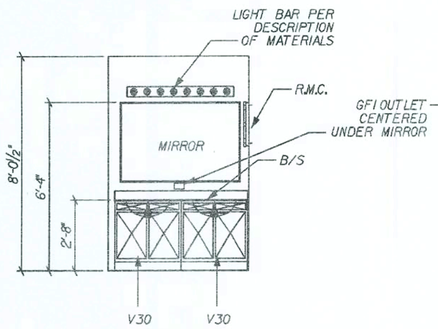


STANDARD LAV. TOP HALL BATH VANITY

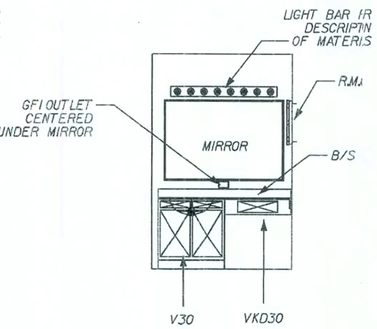


KITCHEN COUNTER TOP PLAN

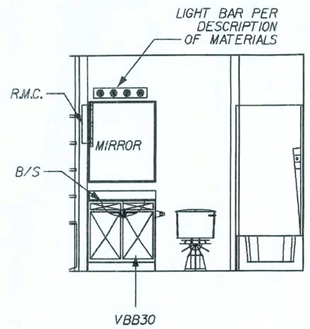
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE



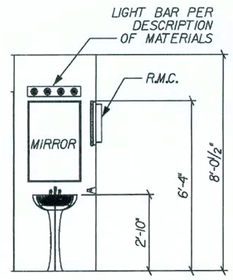
G — OPTIONAL DBL. SINK - MASTER BATH VANITY



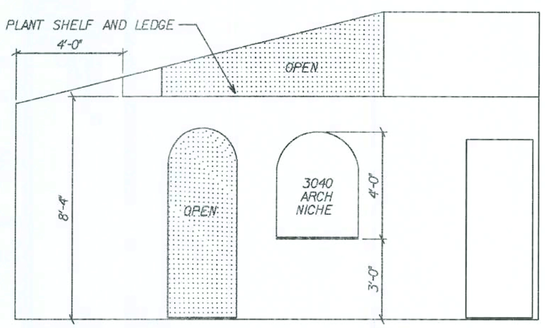
G — STANDARD SINK - MASTER BATH VANITY



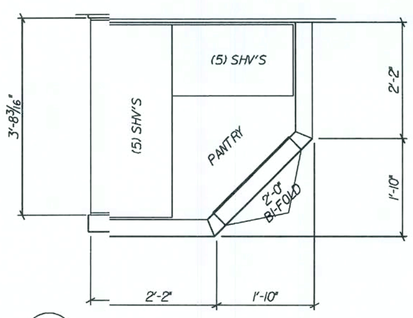
F — HALL BATH VANITY



E — ACCESS. POWDER RM.



J — MASTER BEDROOM



H — ENLARGED PANTRY PLAN

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

REVISIONS :
09-12-06 REV. KITCHEN CABINETS/FILLERS
02-19-07 REV. MASTER BATH VANITY

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 2006 SUPPLEMENT

p:\f1houses_05\george_washington\sfd\geor.03a

AMERICANA

INT. ELEVATIONS

GEO. WASHINGTON

GARAGE: LEFT

DRAWN BY:

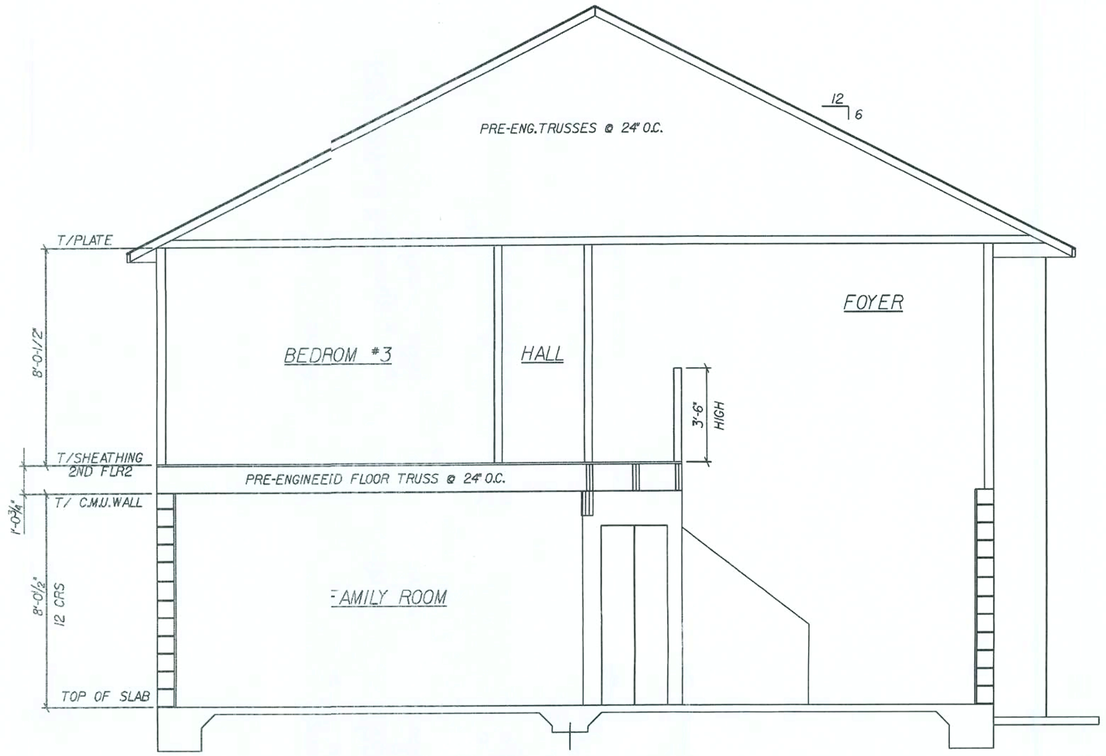
RELEASE DATE: 07/14/04

15-42306

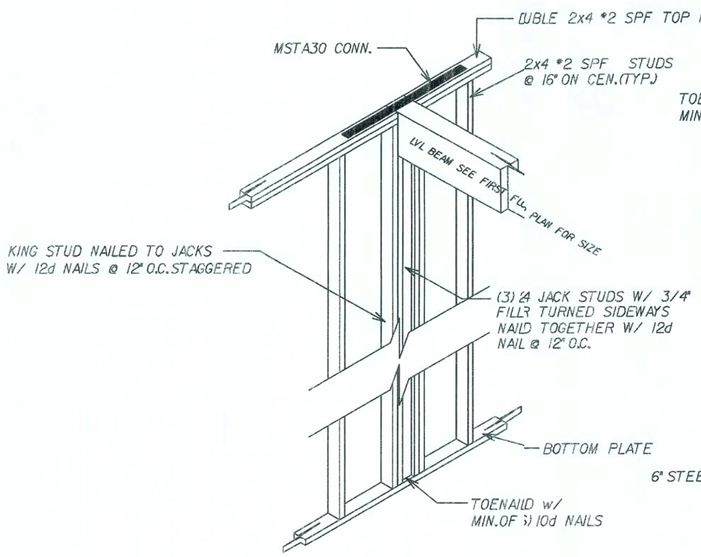
PLOT DATE: 15 JAN 2008

SHEET: 3A

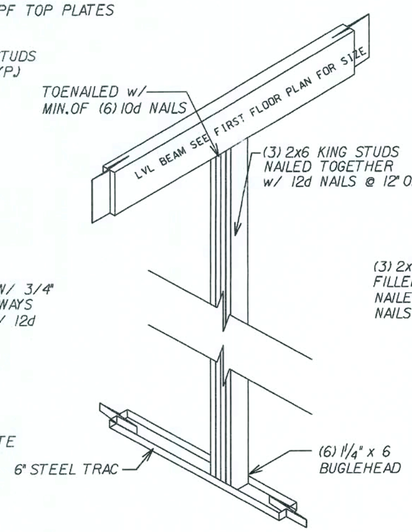
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



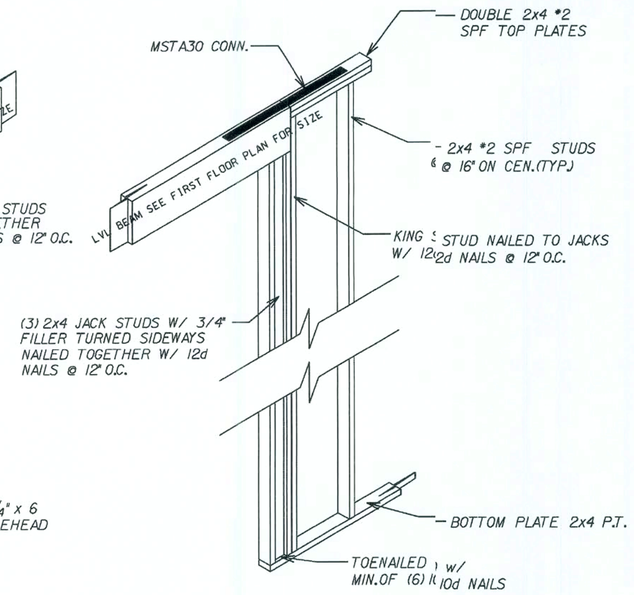
A CROSS SECTION
SCALE: 1/4" = 1'-0"



BEAM POCKET COINECTION IN FRAME WALL



MID POINT BEARING POST CONNECTION



BEAM CONNECTION TO FRAME WALL

NTS

p:/flasbuilts/geowashington/ivl-conns.dtl

REVISIONS :

02-13-06 REV. WOOD TRUSS FLOOR FRAM'G

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 AND2005, 2006 SUPLEMENT

p:\houses_05\george_washington\std\geor.csu

AMERICANA SECTIONS/DETAILS

GEO. WASHINGTON

GARAGE: LEFT

DRAWN BY:

RELEASE DATE: 07/14/04

15:42:06

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:

CSU

PLOT DATE: 15 JAN 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

GENERAL SECOND FLOOR NOTES:

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

EXTERIOR WALLS TO BE 4" THICK, CONSISTING OF 2x4 #2 S.Y.P. STUDS w/ 7/16" OSB SHEATHING, TYPICAL, U.N.O.

EXTERIOR OPENING DIMENSIONS ARE TO FACE OF ROUGH OPENING

INTERIOR NON-LOAD BEARING WALLS TO BE NOMINAL 3⅝" MTL STUD, 25 ga. U.N.O.

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 IF LARGER THAN 9 SQ.FT.
- ALL SHOWER ENCLOSURES.

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

ALL BEDROOM WINDOWS ARE CONSIDERED EGRESS UNLESS OTHERWISE NOTED

SEE SHEET # WL FOR WINDOW AND LINTEL SCHEDULES AND DETAILS

OPENING PRESSURES 125mph:

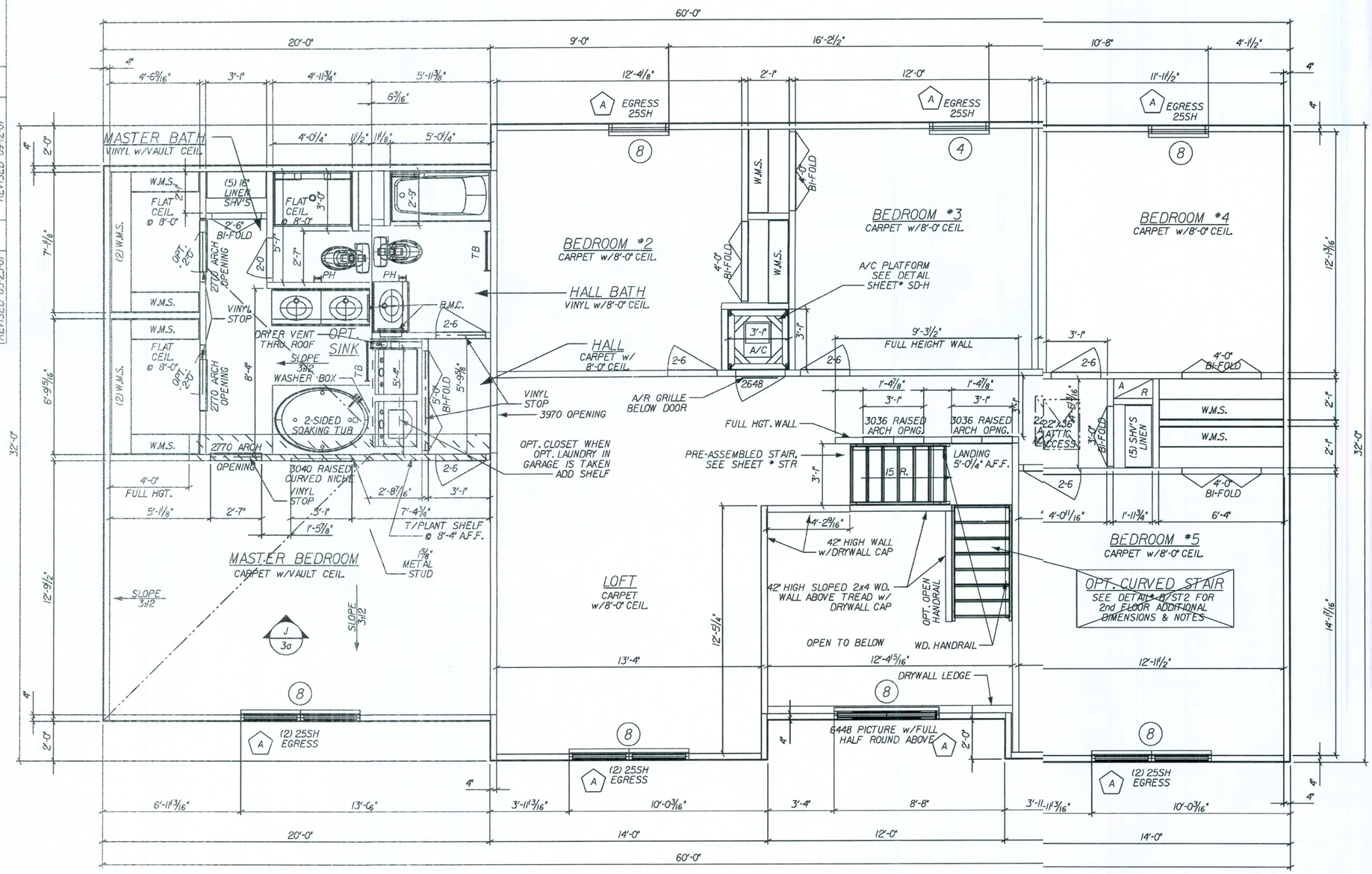
(A) +28.1 / -30.5	(B) +23.7 / -27.6	(E) +24.2 / -27.1
(C) +28.1 / -37.6	(D) +24.9 / -29.7	

REVISED 09-12-07

TSH WINDOW HEADERS

(4)	3½" x 4⅜" TSH
(8)	3½" x 8⅝" TSH

REVISED 05-23-07



REVISIONS :
05-23-07 REV. HEADERS

08-14-07 REV. CODE INFORMATION

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT FOR 125 MPH - 3 SEC. GUST. UNLESS OTHERWISE NOTED ON THE PLANS. ALL CONNECTORS HAVE BEEN CHOSEN TO WITHSTAND ALL APPLICABLE LOADS.

p:\f:\houses_05\george_wash'ngton\125r\geo125r.004

AMERICANA — SECOND FLOOR PLAN
GEO. WASHINGTON
GARAGE: LEFT
125 MPH
DRAWN BY:
RELEASE DATE: 07/14/04
15:42:07

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET: 4

PLOT DATE: 15 JAN 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

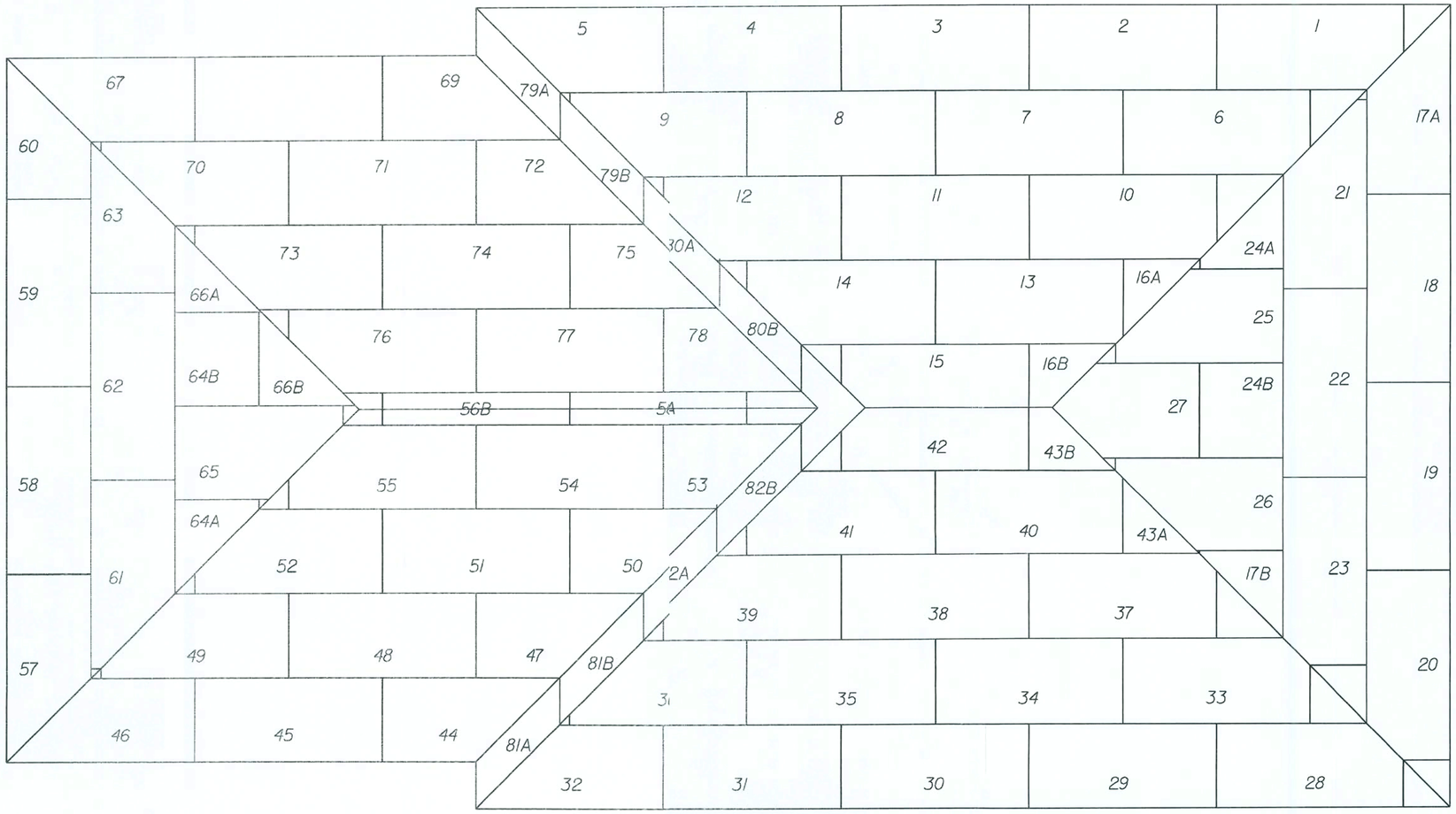
GENERAL ROOF NOTES:

7/16" OSB SHT'G w/ 8d RING/SCREW SHANK NAIL (AS PER R803.2.3.1) 4" O.C. EDGE & 6" O.C. FIELD, (3" O.C. @ GABLE END TRUSS) w/ CLIPS ON PRE-ENGINEERED TRUSSES @ 24" O.C.

REVISED 05-07-07

TOTAL ROOF SHEATHING:

82 SHEETS



VENTILATION OF ATTIC SPACE: GEORGE WASHINGTON

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

CALCULATIONS:
MAIN ROOF
1816 SF / 150 = 12.11 SF VENTILATION REQUIRED

SOFFET:
188 LF SOFFET VENT @ 19.5 si/LF = 3666.0 si
3666.0 si / 144 si PER SF = 25.46 SF ACTUAL

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

REVISIONS:
06-16-06 REVISED VENT. CALCS.

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

AMERICANA | ROOF SHEATHING

GEO. WASHINGTON-5

ELEVATION-ALL

DRAWN BY:
GARAGE: LEFT
RELEASE DATE: SEE SHEET 1

p:\Houses_05\george_washington\sfd\geor.rsl

15:42:07

PLOT DATE: 15 JAN 2008

SHEET: RS1

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

FLOOR FRAMING NOTES:

16" DEEP WOOD FLOOR TRUSSES @ 24" O.C., U.N.O.

1¼" x 16" HIGH WOOD RIM BOARD

DESIGN LOADS:
TC LIVE LOAD = 40 psf
TC DEAD LOAD = 10 psf
BC DEAD LOAD = 5 psf
TOTAL LOAD = 55 psf

DEFLECTION:
LL = L/360
TL = L/240

ROOF LOADS ASSUMED TO BE BEARING ON PERIMETER WALLS ONLY.

FLOOR SHEATHING:
¾" T&G WOOD DECKING GLUED & NAILED w/ 7d x 2¼" SCREW SHANK NAIL @ 4" O.C. EDGES AND 8" O.C. FIELD (TYP.) or 16ga.x 1¾" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD. SEE SHEET * FDO. GLUE MUST BE INCLUDED IN THE GROOVE OF EACH PANEL AND BTWN SHEATHING AND TRUSSES.

FLOOR CONNECTORS:

FA3, RIM BOARD CONNECTION DETAIL * B/WS-S1 & LADDER TRUSS CONNECTION DETAIL * E/WS-S1

Ø TYPICAL ATTACHMENT TO BEARING WALL w/ (2) 10d NAILS, TOE-NAILED. SEE DETAIL D/WS-S1

BLK SOLID WOOD FIRE BLOCKING SEE DETAIL F/WS-S1.

✱ LPTA, SEE DETAIL SHEET B/WS-S2

& TA14, SEE DETAIL SHEET E/WS-S2

REVISED 05-02-07 NAIL SPACING

ERECTION/INSTALLATION NOTES

WARNING!:

THE ERECTION/INSTALLATION CONTRACTOR SHOULD PROVIDE ADEQUATE RIGGING (CRANE, TAGLINES, SPREADER BARS) FOR SUFFICIENT CONTROL DURING LIFTING AND PLACEMENT TO ASSURE SAFETY TO PERSONNEL AND TO PREVENT DAMAGE TO FLOOR DECK PANELS AND PROPERTY.

NOTE:

ALL FLOOR DECK PANELS UP TO 30': KEEP LINE ANGLE AT CRANING POINTS AT 60° OR LESS.

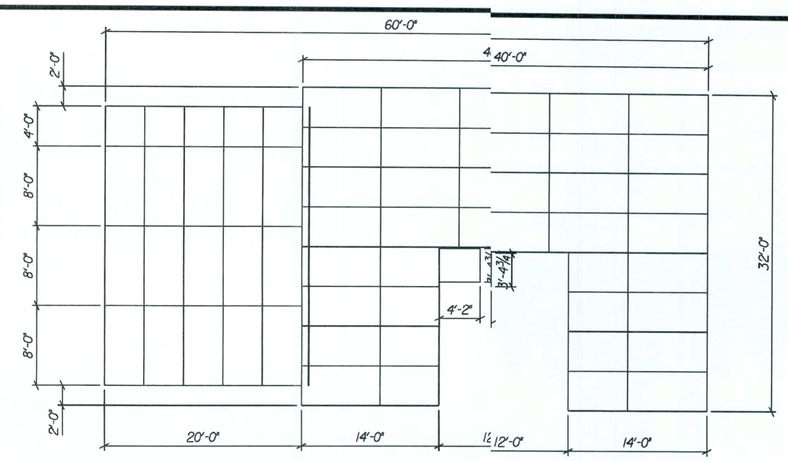
ALL FLOOR DECK PANELS 30' TO 60': ATTACH FLOOR DECK PANEL TO SPREADER BAR WITH LINES THAT SLOPE INWARD OR "TOE-IN". LINES THAT "TOE-OUT" COULD CAUSE FLOOR DECK PANEL TO BUCKLE.

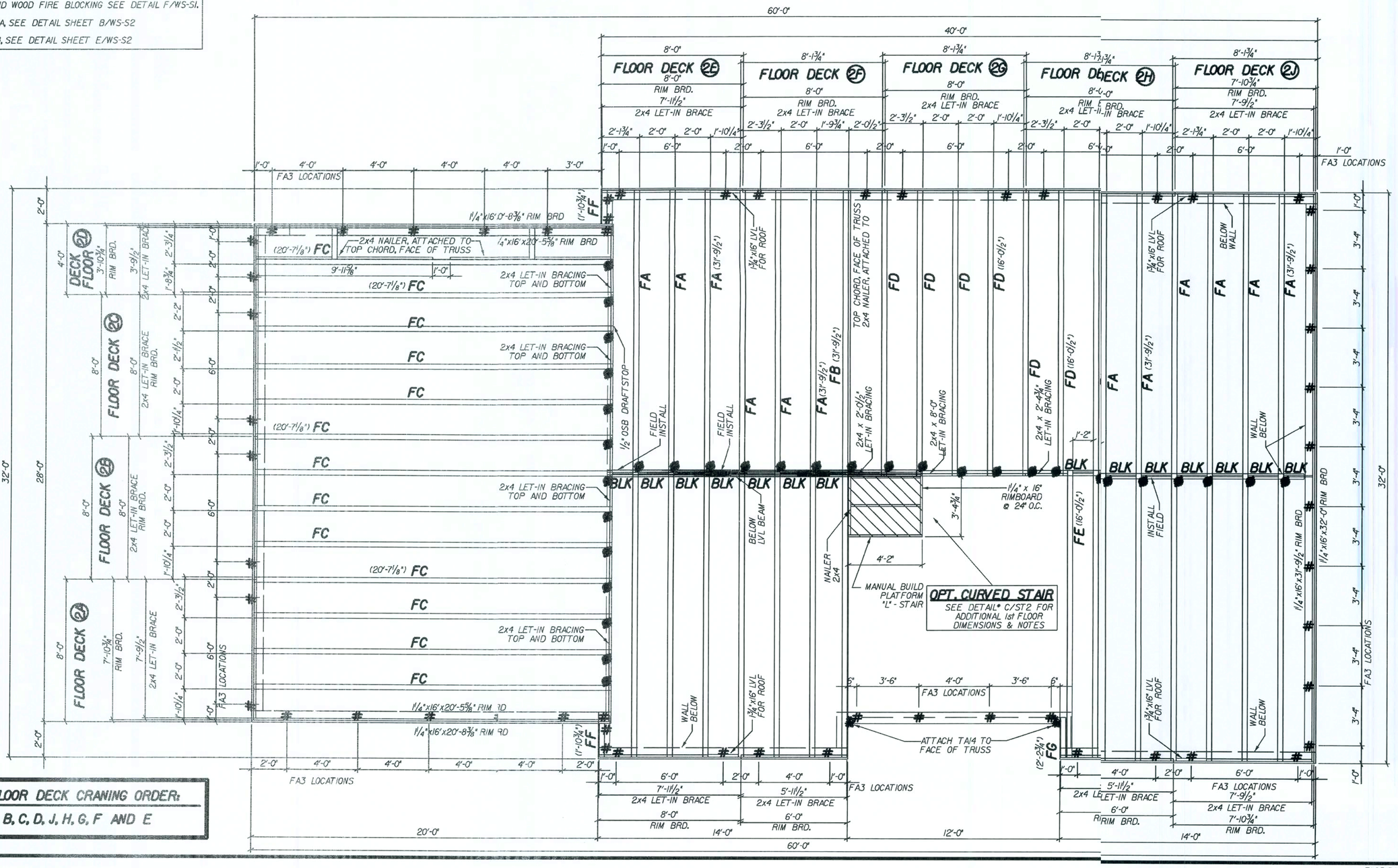
FLOR FRAMING:

ITE	DESCRIPTION
RIMBRD.	1¼" x 16"
FA FF	16" WOOD TRUSS

SECOND FLOOR SHEATHING LAYOUT

55 SHEETS - 4x8 SHEATHING





FLOOR DECK CRANING ORDER:
A, B, C, D, J, H, G, F AND E

REVISIONS :
11-26-07 LVL @ ROOF GIRDER POINT
3-5-08 REMOVED CRANING BLOCKS

08-14-07 REV. CODE INFORMATION

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

FLORIDA, THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA RESIDENTIAL CODE, 2004 EDITION AND 2005, 2006 SUPPLEMENT, FOR 125 MPH 3 SEC. GUST, I=1.0, EXPOSURE B, ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

g:\mfc\houses\fhg_wash\border\ef\hgen125.fl2

AMERICANA | 2nd FLR. FMG. PLAN

GEO. WASHINGTON

16" WOOD RIM BOARD

DRAWN BY: | GARAGE: LEFT

RELEASE DATE: 07/14/04 | 125 MPH

11:45:25

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

Elmer Bergman, P.E.
License No. 50158

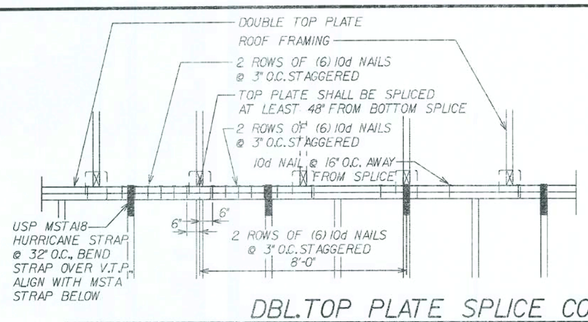
JUL 28 2008

PLOT DATE: 21 MAY 2008

SHEET:

FT2

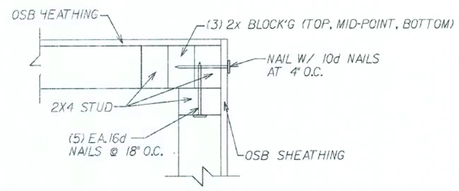
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



DBL. TOP PLATE SPLICE CONN.

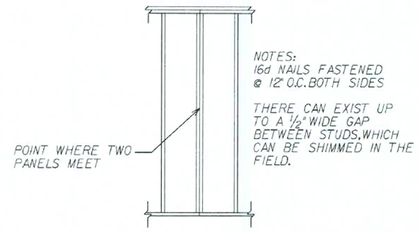
REVISED 02-15-07 : MSTA18 STRAP

SCALE: N.T.S.



B — TOP CORNER DETAIL

SCALE: N.T.S.



NOTES:
16d NAILS FASTENED @ 12" O.C. BOTH SIDES

THERE CAN EXIST UP TO A 1/2" WIDE GAP BETWEEN STUDS, WHICH CAN BE SHIMMED IN THE FIELD.

A — WALL JOINT DETAIL

SCALE: N.T.S.

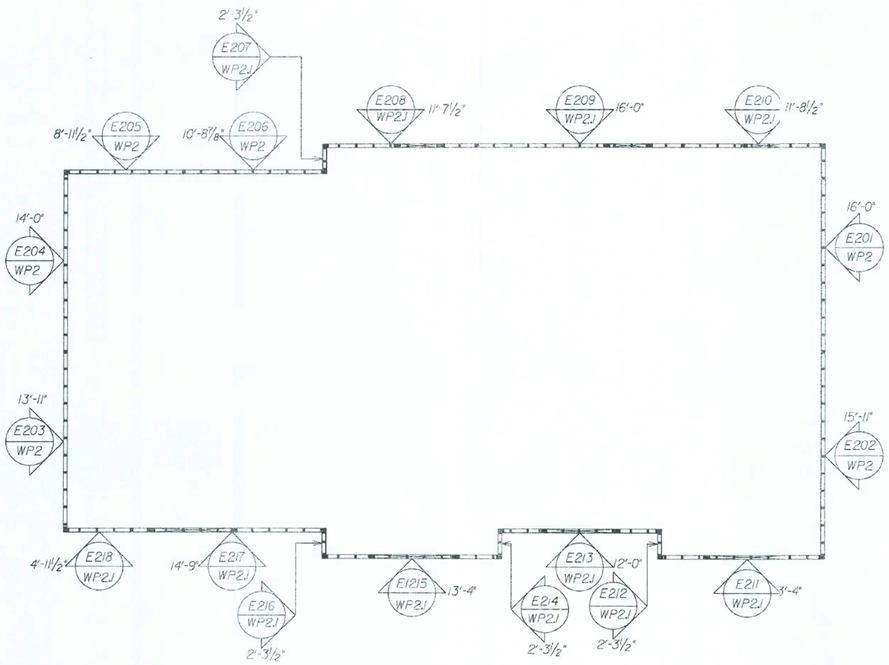
WALL STRAP KEY

(UNDER SHEATHING)

- S1 - RSPT4

(ON TOP OF SHEATHING)

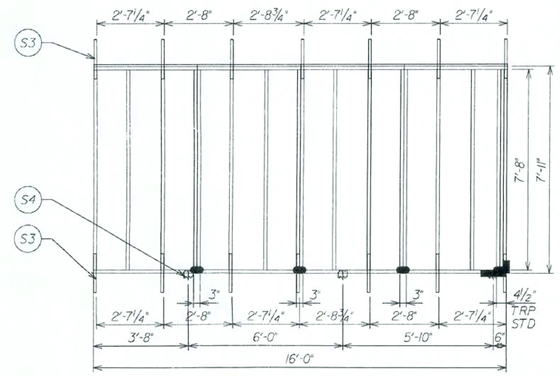
- S2 - MSTA12 (BENT)
- S3 - MSTA18
- S4 - MP6F
- S5 - MSTA30
- S6 - MSTA24



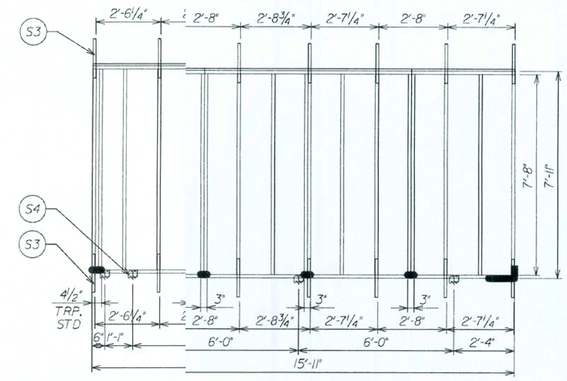
FRONT OF HOUSE

SECOND FLOOR WALL PANEL LAYOUT

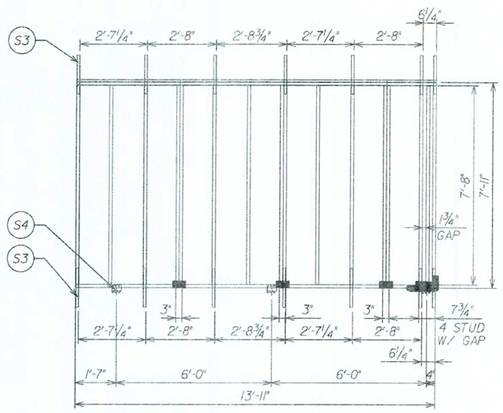
ALL ELEVATIONS



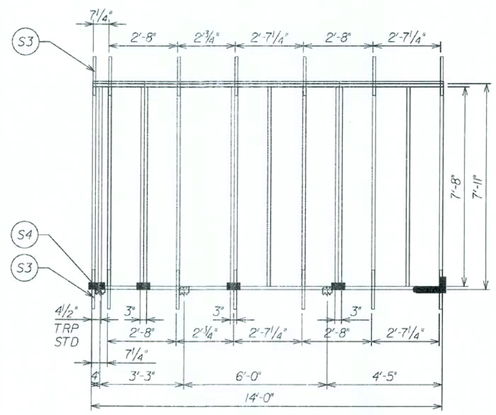
PANEL E201



PANEL E202



PANEL E203



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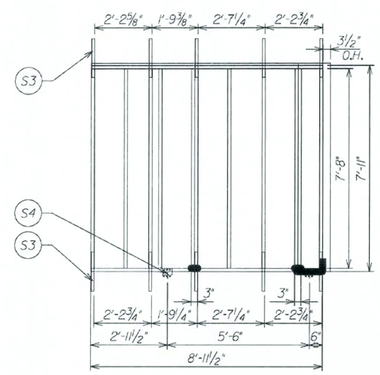

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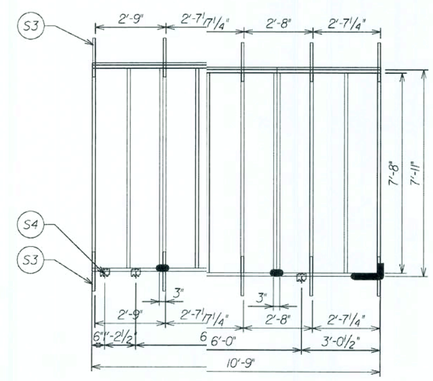


PANNEL E206

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

REVISIONS :

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

AMERICANA | WALL PANEL LAYOUT

G. WASHINGTON

ALL ELEVATIONS

DRAWN BY: J. LEHNER | GARAGE: LEFT

RELEASE DATE: 02/27/07

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET: WP2

PLOT DATE: 25 JUL 2007

g:\mfc\houses\f\g_washington_lot2.wp2

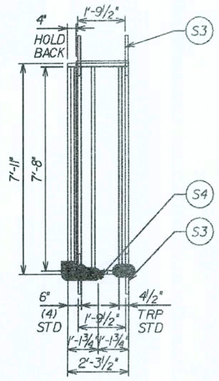
WALL STRAP KEY

(UNDER SHEATHING)

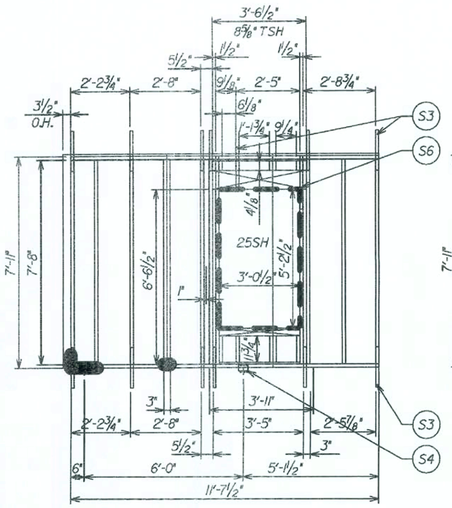
- S1 - RSPT4

(ON TOP OF SHEATHING)

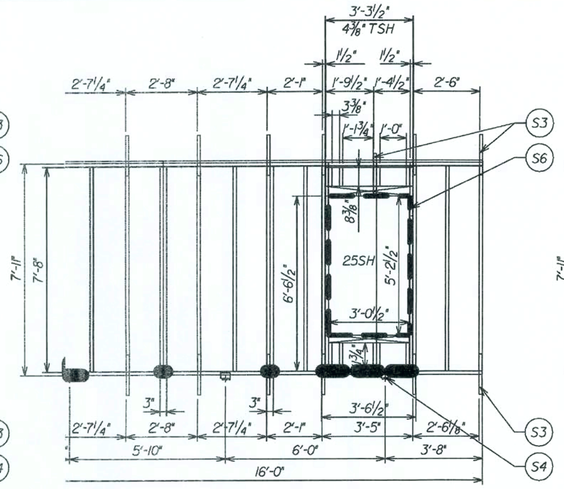
- S2 - MSTAI2 (BENT)
- S3 - MSTAI8
- S4 - MP6F
- S5 - MSTA30
- S6 - MSTA24



PANEL E207



PANEL E208



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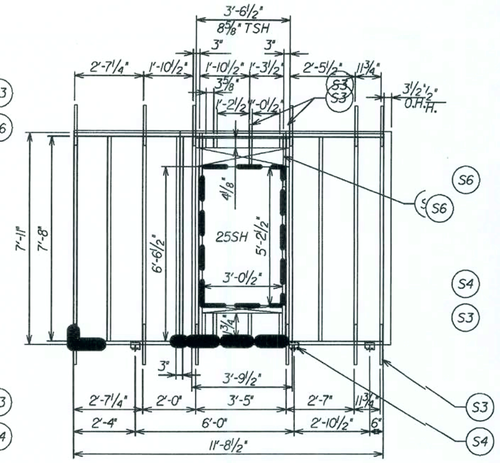
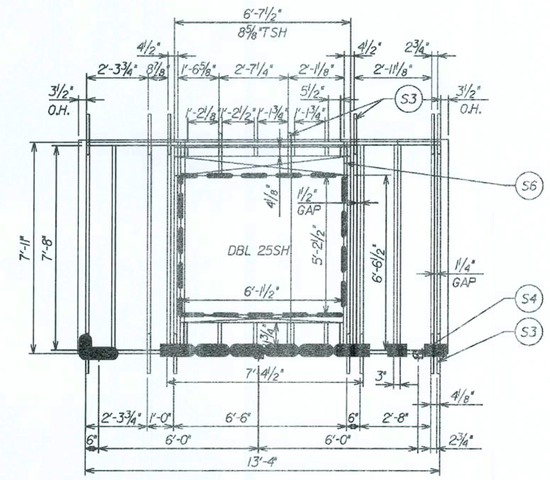
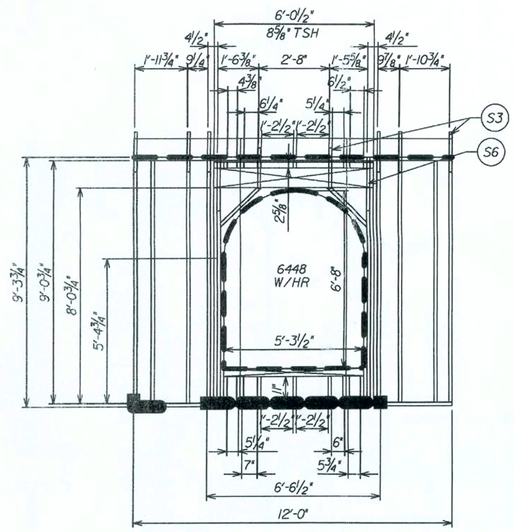


PANEL E210



PANEL E211

PANEL E212



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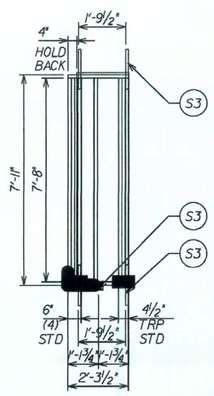

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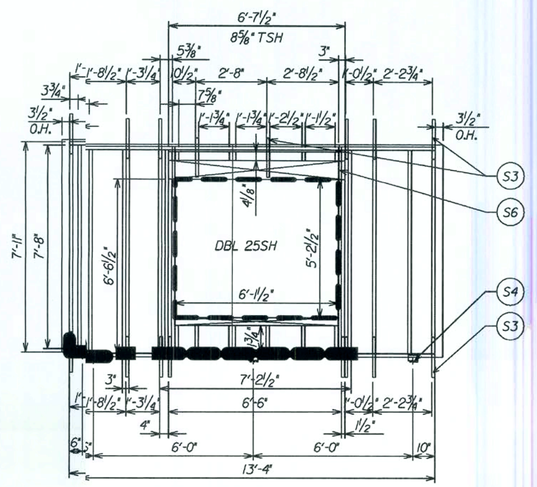

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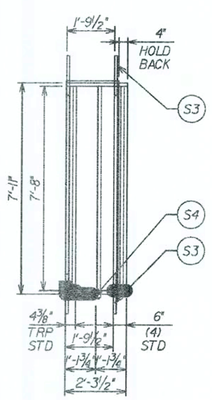

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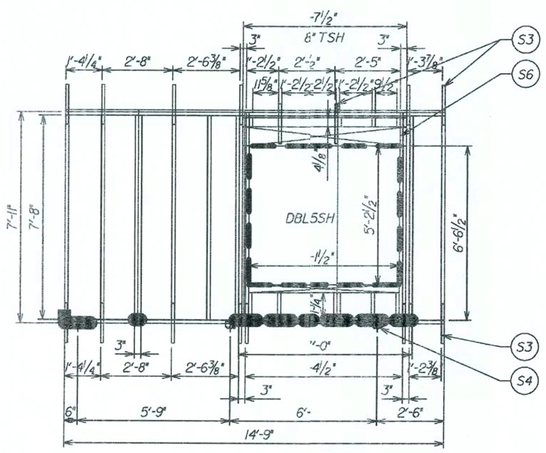

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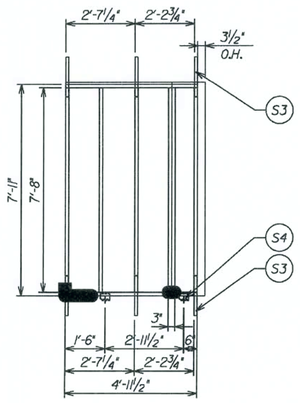


PANEL E218

REVISIONS :

Maronda Homes

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

AMERICANA | WALL PANEL LAYOUT

G. WASHINGTON

ALL ELEVATIONS

DRAWN BY: J.LEHNER | GARAGE: RIGHT

RELEASE DATE: 02/27/07

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:

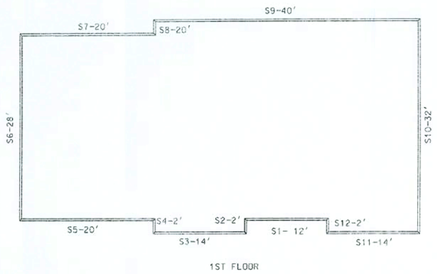
WP2.1

g:\mlcc\houses\fl\g_washborder\fl\gwashington_2of2.wp2

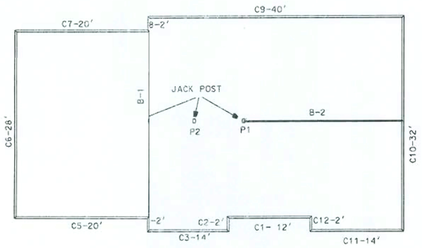
08:14:32

PLOT DATE: 21 AUG 2007

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



1ST FLOOR



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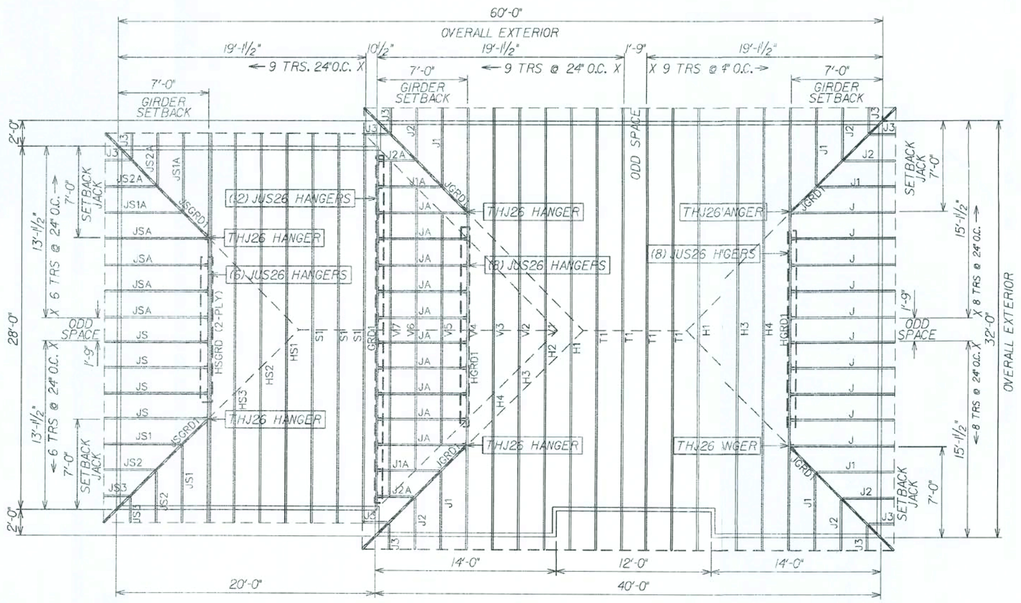

STRUCTURAL WALL SCHEDULE

WALL ID	STUD SIZE & GRADE	STUD SPACING	OVERTURN ANCHOR - APPLIED AT CORNERS & BOTH SIDES OF OPENINGS: PRODUCT CODE	BOLT TO SLAB SIZE	SPECIAL NOTES	WALL TO SLAB: PRODUCT CODE	SPACING	TOP & BOTTOM OF STUD TO PLATE: PRODUCT CODE	SPACING	SHEARWALL SHEATHING: TYPE	NAIL SIZE &SPACING
C1-C12	8" CMU	—	—	—	—	—	—	—	—	—	—
S1-S12	2X4 #2 SYP	16"O.C.	—	—	—	—	—	RT5L	TOP OF EA. STUD	7/16"O.S.B. EXT. SIDE	8d NAILS 4"O.C. EDGE 6" O.C. FIELD
P1 & P3	3 2X4 SYP	W/FILLER	—	—	—	—	—	—	—	—	—
P2	3 2X6 SYP	W/FILLER	—	—	—	—	—	—	—	—	—
B-1	2X4 #2 SPF	16"O.C.	—	—	—	MTS27B w/ (1) 1/2" ANCHOR BOLT	SEE FLR PLAN NOTE	RT5L / RT3	EA. STUD	4X8X1/2" GYP SHEATHING BOARD	#6 x 1 1/4" SCREWS 4"O.C. EDGE 12" O.C. FIELD
B-2	2X4 #2 SPF	16"O.C.	—	—	—	1/2"X5 1/2" BOLT OR EXP. BOLT	72" O.C.	—	—	—	—

TPI-02 TRUSS HARDWARE SCHEDULE 160%

NEW TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LEFT	UPLIFT MID	UPLIFT RIGHT	LEFT STRAP TYPE	LEFT STRAP MAX. UPLIFT	LEFT STRAP FASTENERS	MID STRAP TYPE	MID STRAP MAX. UPLIFT	MID STRAP FASTENERS	RIGHT STRAP TYPE	RIGHT STRAP MAX. UPLIFT	RIGHT STRAP FASTENERS
T1	COMMON	4	545	—	497	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
H1	HIP	2	545	—	497	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
H2	HIP	2	519	—	519	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
H3	HIP	2	516	—	516	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
H4	HIP	2	519	—	519	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
HGRDI	1-PLY HIP GIRDER	2	199.3	—	199.3	(2)RT16	2060	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	(2)RT16	2060	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
GRDI	1-PLY HIP GIRDER	1	1058	—	969	HTW24	1325	(20) 10d	—	—	—	HTW24	1325	(20) 10d
S1	SCISSOR	3	476	—	476	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
HS1	SCISSOR	1	476	—	476	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
HS2	SCISSOR	1	474	—	474	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
HS3	SCISSOR	1	476	—	476	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	RT16	1030	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
HSGRD	2-PLY HIP GIRDER	(2)	1617	—	1615	(2)RT16	2060	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	—	—	—	(2)RT16	2060	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"
JGRDI	HIP JACK	4	343	—	385	HHCP2	800	TRUSS (10) 10d PLATE (10) 10d	—	—	—	THJ26 2	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"
JSGRDI	HIP JACK	2	251	—	373	HHCP2	800	TRUSS (10) 10d PLATE (10) 10d	—	—	—	THJ26 2	1010	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"
J	END JACK	10	181	—	157	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	JUS26	1115	(4) 10d HEADER (4) 10d TRUSS
JS	END JACK	4	176	—	156	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	JUS26	1115	(4) 10d HEADER (4) 10d TRUSS
JSA	END JACK	4	176	—	156	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	JUS26	1115	(4) 10d HEADER (4) 10d TRUSS
JA	END JACK	10	79	—	168	JUS26	1115	(4) 10d HEADER TRUSS (4) 10d	—	—	—	JUS26	1115	(4) 10d HEADER (4) 10d TRUSS
J1	CORNER JACK	6	158	—	145	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	RT5	540	TRUSS (4) 8d PLATE (4) 8d
J1A	CORNER JACK	2	52	—	158	JUS26	1115	(4) 10d HEADER TRUSS (4) 10d	—	—	—	RT5	540	TRUSS (4) 8d PLATE (4) 8d
JS1	CORNER JACK	2	157	—	146	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	16d NAILS		2 / 2
JS1A	CORNER JACK	2	157	—	146	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	16d NAILS		2 / 2
J2	CORNER JACK	6	144	—	69	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	16d NAILS		2 / 2
J2A	CORNER JACK	2	28	—	92	JUS26	1115	(4) 10d HEADER TRUSS (4) 10d	—	—	—	16d NAILS		2 / 2
JS2	CORNER JACK	2	143	—	70	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	16d NAILS		2 / 2
JS2A	CORNER JACK	2	143	—	70	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	16d NAILS		2 / 2
J3	CORNER JACK	10	154	—	12	RT5	540	TRUSS (4) 8d PLATE (4) 8d	—	—	—	16d NAILS		2 / 2
JS3	CORNER JACK	2	5	—	75	16d NAILS		2 / 2	—	—	—	16d NAILS		2 / 2
V1-V7	VALLEY TRUSS		LTW12 @ 48" O.C.				670	(12) 10d						*TOP NAILS
PIGGY BACK VALLEYS			MSTA 12 @ 48" O.C.				1015	(10) 10d						*BOTTOM NAILS

ALL HARDWARE MANUFACTURED BY USP XXXX

ALL HARDWARE MANUFACTURED BY SIMPSON XXXX [1]

ALL HARDWARE MANUFACTURED BY CLEVELAND XXXX [2]

✱ DENOTES A GRAVITY LOAD OF 5000 LBS OR HIGHER

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON 125 mph WINDLOAD. ALL PRESSURES WERE CALCULATED USING COMPONENTS AND CLADDING
2. ROOF TRUSS LOADING:
   16 psf TOP CHORD LL
   7 psf TOP CHORD DL
   10 psf BOTTOM CHORD DL
   33 psf TOTAL LOAD
3. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING & BSCI 1-03

REVISIONS :

THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION 1606 OF THE FLORIDA BUILDING CODE 2001 FOR 125 MPH - 3 SEC. GUST. HIGH EXPOSURE B. ENCLOSED BUILDING. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.

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

HERITAGE

TRUSS INFO

GEO. WASH

ELEVATION "B" & "E"

GARAGE: LEFT

125 MPH

DRAWN BY: MKH

RELEASE DATE: 10/30/2007

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:

TRIbe

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08-8-2

31 JAN 2008

elecitem REPORT

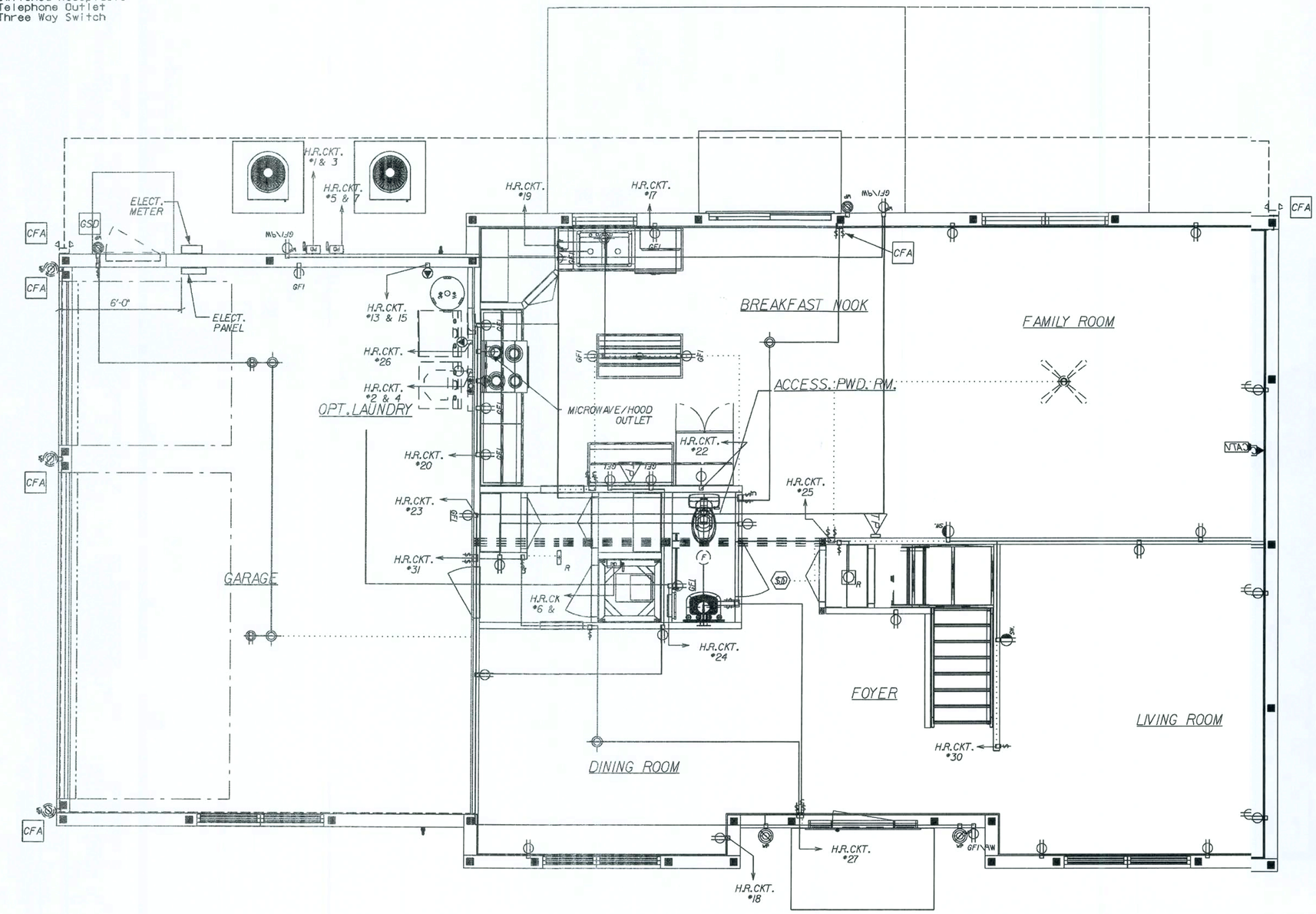
Thu Feb 17 09:01:16 2005
p:*fl*houses 05*george washington*electrical*el1b.ele

QUANTITY	DESCRIPTION
14	1451 Single Pole Switch
1	200 Amp Panel
3	220 V. Special Receptacle
1	ANC U200 - Underground Meter Socket
9	CLN B620H - Octagon Hanger
1	Ceiling Fan (By Others)
1	Deluxe Broadway 2' P3298-10
27	Duplex Receptacle
1	Exhaust Fan
1	Fluor Ltg 4'L (4B)
2	Front Door WP Lamp
4	G.F.I. Receptacle
5	H-7T Overhead Light
2	H-7T-Rec Lht
3	Power Disconnect Switch
46	RAC 7302 - 1 Gang BoX
8	RAC 7835 - 2 Gang Box
2	Rear Door WP Lamp
3	Single Receptacle
1	Smoke Detector
2	Switched Receptacle
2	Telephone Outlet
5	Three Way Switch

elecinth REPORT

Thu Feb 17 09:1:16 2005
p:*fl*houses 05george washington*electrical*el1b.ele

QUANTITY	DESCRIPTION
125'	10 Gaue/3 Cond. Copper
356'	12 Gaue/2 Cond. Copper
1163'	14 Gaue/2 Cond. Copper
151'	14 Gaue/3 Cond. Copper
34'	6 Gaug/3 Cond. Copper



GENERAL ELECTRICAL NOTES:

CIRCUITRY IS DIAGRAMATIC ONLY, FIELD CONDITIONS MAY CHANGE ACTUAL INSTALLATION.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC, SECTION 210J2

SMOKE DETECTORS ARE INSTALLED PER MFG. INSTRUCTIONS AND NFPA 72, ALL DEVICES SHALL BE INTERCONNECTED WITH BATTERY BACK-UP.

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

REVISED 10-05-06

LIST OF OPTIONS:

CFA	OPTIONAL COACH LIGHTS, (2) FLOOD LIGHTS AT REAR AND GARAGE OUTLET REVISED 11-18-05
GSD	OPTIONAL DOOR LIGHT REVISED 11-18-05

ELECTRICAL SYMBOL LEGEND:

REGULAR TEXT	REVERSE TEXT	DESCRIPTION
PD	PD	Power Disconnect Switch
		Door Bell Chime
PB	PB	Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
WP	WP	Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW.	WP	Switched Receptacle
		220 V. Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg. Fixture
F	F	Exhaust Fan
CATV	TV	Cable TV
TEL	TEL	Telephone Outlet
		Flood Lights
F L		Exhaust Fan / Light Combo
SD CO		Smoke / Carbon Monoxide Combo

REVISED 03-19-07

REVISIONS :
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM

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

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPLEMENT

AMERICANA | FIRST FLOOR PLAN

GEO. WASHINGTON

ELEVATION "B"

DRAWN BY:
GARAGE: LEFT
RELEASE DATE: 07/14/04

SHEET: ELIb

PLOT DATE: 13 JUN 2008 13:27:34

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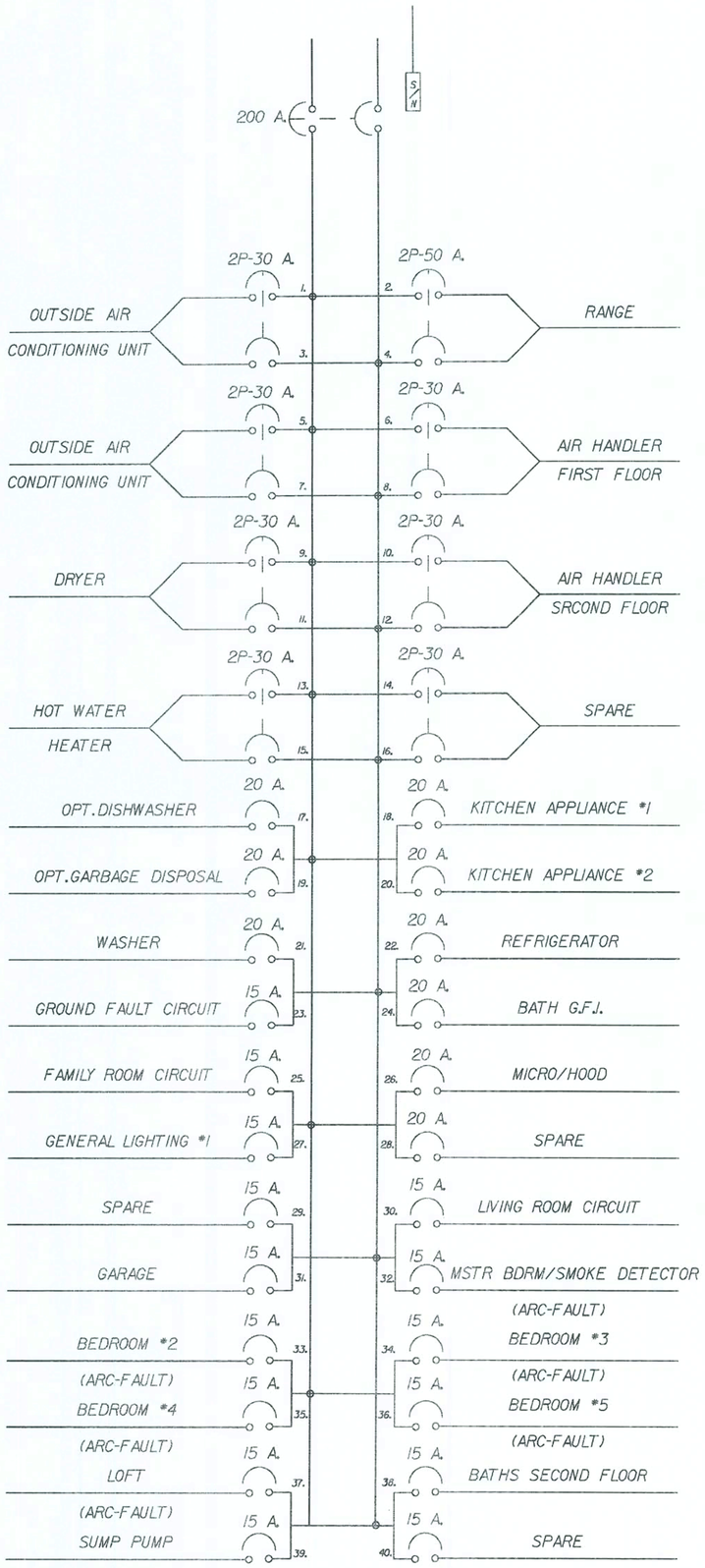
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



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

MAIN BREAKER LOAD CENTER

ELECTRICAL LOAD CALCULATIONS

11/28/06

MODEL: GEORGE WASHINGTON 5

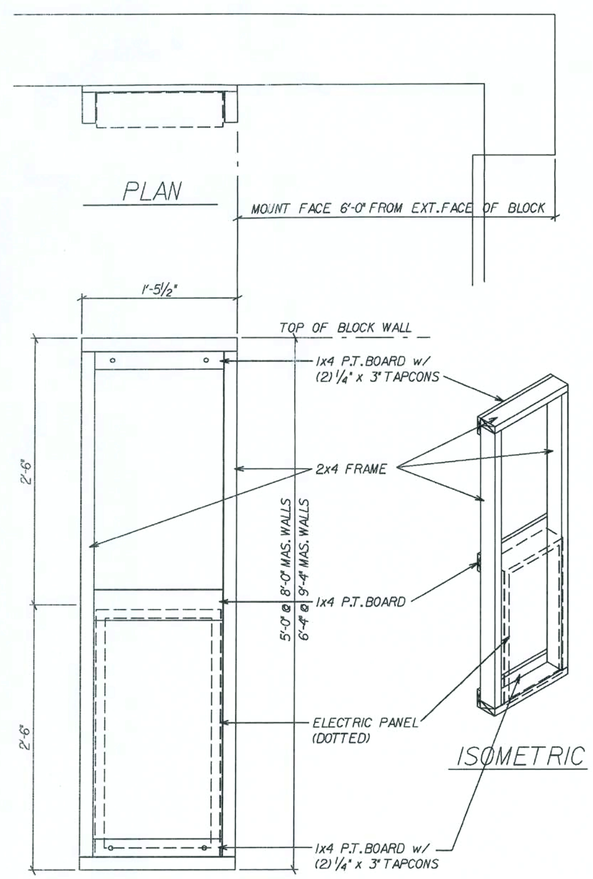
		VOLT/AMPS
LARGEST LOAD:HEAT PUMPW/SUPPLEMENTAL HEAT		**22292**
SQUARE FEET LIVING AREA	**2920** @ 3 VOLT/AMPS	8760
SMALL APPLIANCE CIRCUITS		3000
LAUNDRY CIRCUIT		1500
OVEN		11700
WATER HEATER		4500
DISHWASHER		1500
DRYER		5000
DISPOSAL		500
TOTAL LOAD		**36460**

FIRST 10KVA @100%	10000
REMAINDER @40%	10584
LARGEST LOAD	22292

TOTAL LOAD **42876** V.A./240 VOLTS= **179** AMPS

SERVICE SIZE: 200 AMPS

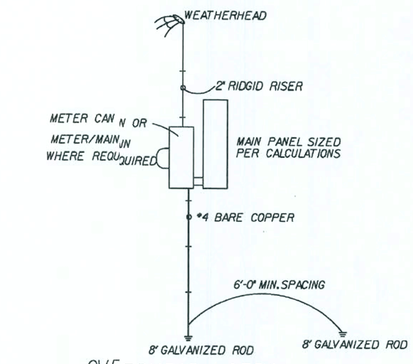
NOTE: HEAT PUMPS ARE CALCULATED AT 100% WITH SUPPLIMENTAL HEAT AT 100%



ELECTRIC PANEL FRAME

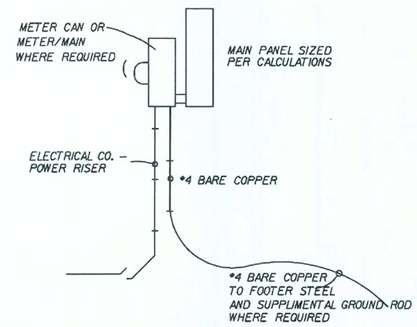
REVISED 09-07-07
ADDED HGT.@ 9'-4" MAS. WALL

SCALE: 1" = 1'-0"

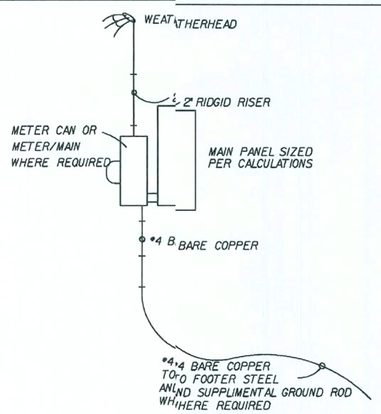


OVEERHEAD SERV.

REVISED 06-14-06
SPACING REQUIREMENT

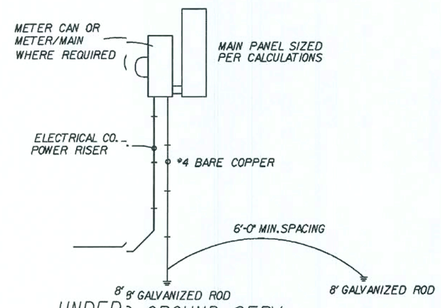


UNDEFR GROUND SERV.



OVEERHEAD SERV.

REVISED 06-14-06
SPACING REQUIREMENT



UNDER GROUND SERV.

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

REVISIONS :

05-24-06 ADD NOTE FOR LOCK-DOG
11-28-06 REV. ELECT. LOAD CALC.
02-19-07 ADD SMOKE DETECTOR TO MASTER BEDROOM
03-10-08 REV. DW & GD BKR. TO 20 AMP.-KW

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 2006 SUPPLEMENT

AMERICANA ELECTRICAL DETAILS

GEO. WASHINGTON

GARAGE:

DRAWN BY:

RELEASE DATE: 09-11-03

SHEET:

ELIA

PLOT DATE: 13 JUN 2008 13:27:35

D:\Houses_05\george_washington\electrical\geo.elia

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

elecitem REPORT

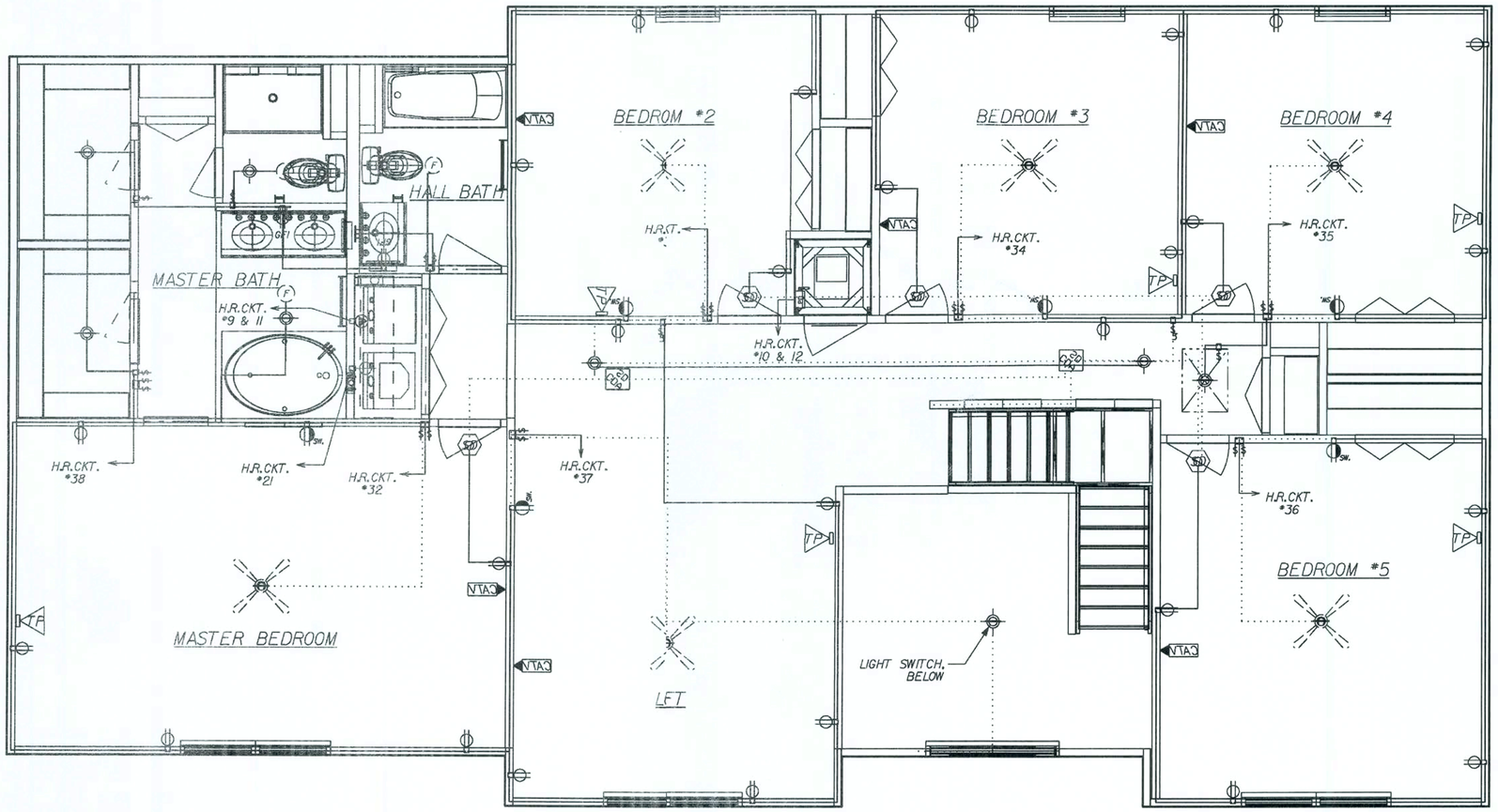
Fri Dec 17 15:34:14 2004
p:*fl*houses 05*george washington*electrical*el2.ele

QUANTITY		DESCRIPTION
20		1451 Single Pole Switch
1		220 V. Special Receptacle
9		CLN B620H - Octagon Hanger
6		Ceiling Fan (By Others)
1		Deluxe Broadway 2' P3298-10
1		Deluxe Broadway 4' P3300-15
29		Duplex Receptacle
3		Exhaust Fan
7		H-7T Overhead Light
1		H-7T-Rec Lht
1		Power Disconnect Switch
42		RAC 7302 - 1 Gang BoX
9		RAC 7835 - 2 Gang Box
1		Single Receptacle
5		Smoke Detector
6		Switched Receptacle
6		Telephone Outlet
3		Three Way Switch
2	USI-7795	160025.0478 SMOKE/CARBON MONOXIDE DETECTOR

elecinth REPORT

Fri Dec 17 15:34:1·2004
p:*fl*houses 05*geo·e washington*electrical*el2.ele

QUANTITY	DESCRIPTION
48'	10 Gauge/3 Cond. Copper
57'	12 Gauge/2 Cond. Copper
1075'	14 Gauge/2 Cond. Copper
391'	14 Gauge/3 Cond. Copper
29'	6 Gauge/3 Cond. Copper



GENERAL ELECTRICAL NOTES:

CIRCUITRY IS DIAGRAMATIC ONLY, FIELD CONDITIONS MAY CHANGE ACTUAL INSTALLATION.

PROVIDE AFCIs (arc-fault circuit interrupters) IN ALL DWELLING UNIT BEDROOMS PER NEC. SECTION 210.12

SMOKE DETECTORS ARE INSTALLED PER MFG. INSTRUCTIONS AND NFPA 72, ALL DEVICES SHALL BE INTERCONNECTED WITH BATTERY BACK-UP.

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

REVISED 10-05-06

LIST OF OPTIONS:

CFA	OPTIONAL COACH LIGHTS,(2) FLOOD LIGHTS AT REAR AND GARAGE OUTLET REVISED 11-18-05
GSD	OPTIONAL DOOR LIGHT REVISED 11-18-05

ELECTRICAL SYMBOL LEGEND:

REGULAR TEXT	REVERSE TEXT	DESCRIPTION
PO	01	Power Disconnect Switch
		Door Bell Chime
PB	BP	Door Bell Buzzer
		Ceiling Fan (By Others)
SD	02	Smoke Detector
		Light Fixture Bath
WP	WP	Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	130	GFI Receptacle
SW.	W2	Switched Receptacle
		220 V.Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg.Fixture
F	F	Exhaust Fan
CATV	CATV	Cable TV
TF	TV	Telephone Outlet
		Flood Lights
EL		Exhaust Fan / Light Combo
SD		Smoke / Carbon Monoxide Combo

REVISED 03-19-07

REVISIONS :
05-27-08 UPDATED CARB. MONO. DET. (HALL) AH

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 AND2005, 2006 SUPPLEMENT

AMERICANA 2nd FLOOR ELECTRIC

GEO. WASHINGTON

GARAGE: LEFT

DRAWN BY:

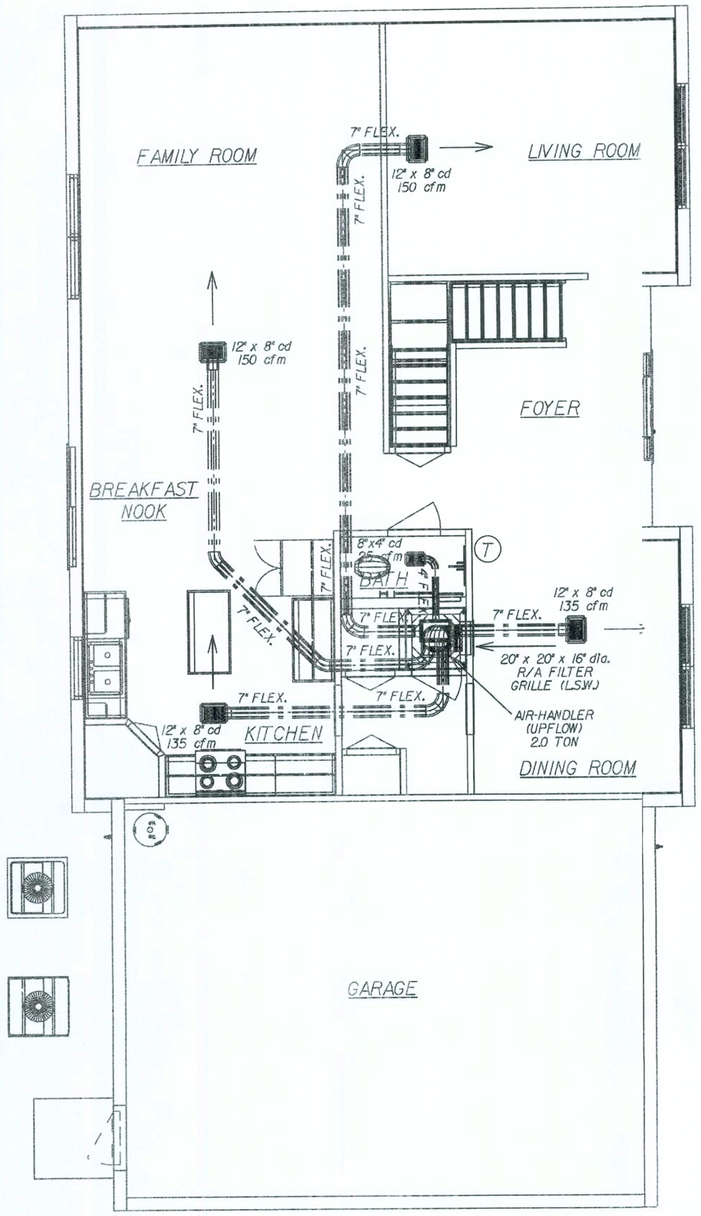
RELEASE DATE: 07/14/04

PLOT DATE: 13 JUN 2008 13:27:36

p:\fl\houses_05\george_washington\electrical\geor-el2

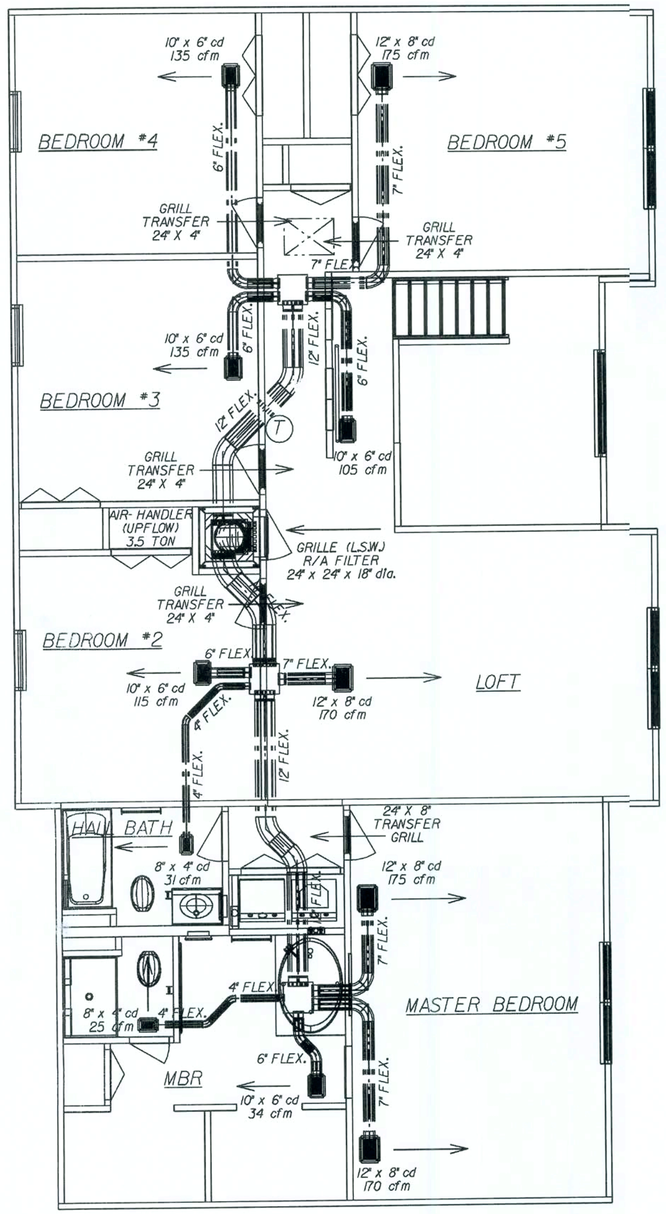
SHEET: EL2

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



FIRST FLOOR REGISTER LAYOUT

2.0 TON
TEMPSTAR FSM2X2400 13 SEER
TEMPSTAR N2H324AKA 13 SEER
5.0 KW
BRAEBURN 5200 PROGRAMABLE
BROAN 671 (70 CFM) (2)
SIZES OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
ALL TAPES, CONNECTORS, & MASTIC
USED WILL BE UL-181 APPROVED
EXT STATIC .60 595 CFM H



SECOND FLOOR REGISTER LAYOUT

3.5 TON
TEMPSTAR FEM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 PROGRAMABLE
BROAN 671 (70 CFM) (2)
SIZES OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)
ALL TAPES, CONNECTORS, & MASTIC
USED WILL BE UL-181 APPROVED
EXT STATIC .60 1270 CFM L

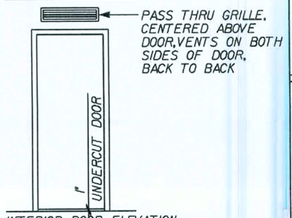
GENERAL MECHANICAL NOTES:

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:



INTERIOR DOOR ELEVATION

REVISIONS :
A) REV. TRANSFER GRILLE @ MBR (8/8/05)
11-01-05 REMOVED ENG'S NOTE
02-07-06 REV. 1st FLOOR UNIT NOTE
12/07/06 COMPLETE 13 SEER UPDATE TJM

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

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

AMERICANA HVAC MECHANICALS

GEO. WASHINGTON-5

5 BEDROOM

GARAGE: LEFT

DRAWN BY:

RELEASE DATE: 07-19-04

p:\f\houses_05\george_washington\hvac\geow5hr1.3.hvac

15:46:59

PLOT DATE: 15 JAN 2008

SHEET: HVA

* USE WITH 13 SEER EQUIPMENT *

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

* USE WITH 13 SEER EQUIPMENT *

hvacitem REPORT

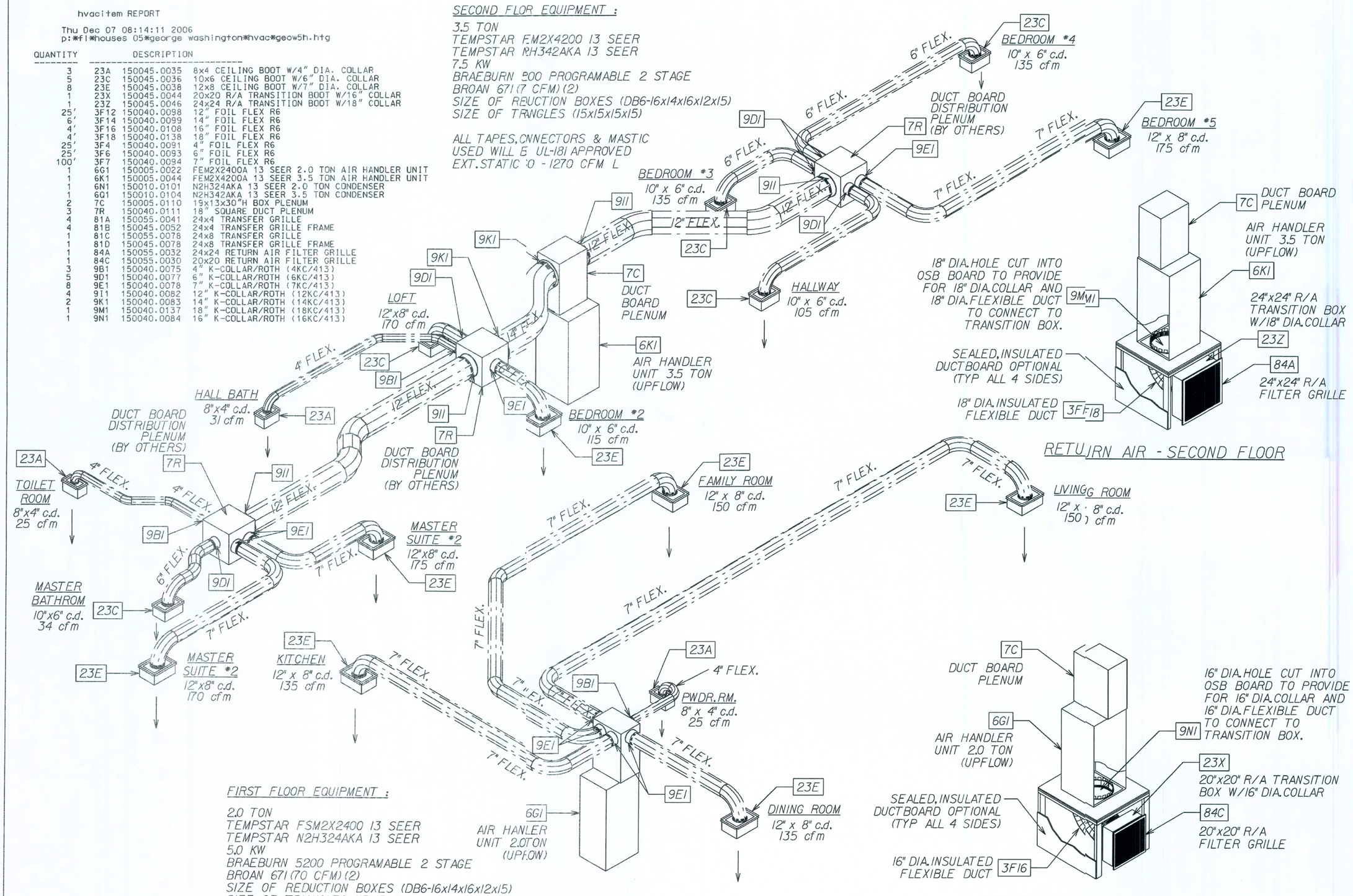
Thu Dec 07 08:14:11 2006
p:*fl*houses 05*george washington*hvac*geow5h.htg

QUANTITY			DESCRIPTION
3	23A	150045.0035	8x4 CEILING BOOT W/4" DIA. COLLAR
5	23C	150045.0036	10x6 CEILING BOOT W/6" DIA. COLLAR
8	23E	150045.0038	12x8 CEILING BOOT W/7" DIA. COLLAR
1	23X	150045.0044	20x20 R/A TRANSITION BOOT W/16" COLLAR
1	23Z	150045.0046	24x24 R/A TRANSITION BOOT W/18" COLLAR
25'	3F12	150040.0098	12" FOIL FLEX R6
6'	3F14	150040.0099	14" FOIL FLEX R6
4'	3F16	150040.0108	16" FOIL FLEX R6
4'	3F18	150040.0138	18" FOIL FLEX R6
25'	3F4	150040.0091	4" FOIL FLEX R6
25'	3F6	150040.0093	6" FOIL FLEX R6
100'	3F7	150040.0094	7" FOIL FLEX R6
1	6G1	150005.0022	FEM2X2400A 13 SEER 2.0 TON AIR HANDLER UNIT
1	6K1	150005.0044	FEM2X4200A 13 SEER 3.5 TON AIR HANDLER UNIT
1	6N1	150010.0101	N2H324AKA 13 SEER 2.0 TON CONDENSER
1	6Q1	150010.0104	N2H342AKA 13 SEER 3.5 TON CONDENSER
2	7C	150005.0110	19x13x30"H BOX PLENUM
3	7R	150040.0111	18" SQUARE DUCT PLENUM
4	81A	150055.0041	24x4 TRANSFER GRILLE
4	81B	150045.0052	24x4 TRANSFER GRILLE FRAME
1	81C	150055.0078	24x8 TRANSFER GRILLE
1	81D	150045.0078	24x8 TRANSFER GRILLE FRAME
1	84A	150055.0032	24x24 RETURN AIR FILTER GRILLE
1	84C	150055.0030	20x20 RETURN AIR FILTER GRILLE
3	9B1	150040.0075	4" K-COLLAR/ROTH (4KC/413)
5	9D1	150040.0077	6" K-COLLAR/ROTH (6KC/413)
8	9E1	150040.0078	7" K-COLLAR/ROTH (7KC/413)
4	9I1	150040.0082	12" K-COLLAR/ROTH (12KC/413)
2	9K1	150040.0083	14" K-COLLAR/ROTH (14KC/413)
1	9M1	150040.0137	18" K-COLLAR/ROTH (18KC/413)
1	9N1	150040.0084	16" K-COLLAR/ROTH (16KC/413)

SECOND FLOR EQUIPMENT :

3.5 TON
TEMPSTAR FM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.5 KW
BRAEBURN 5200 PROGRAMABLE 2 STAGE
BROAN 671 (7 CFM) (2)
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRANGLES (15x15x15x15)

ALL TAPES, CNNECTORS & MASTIC
USED WILL B UL-181 APPROVED
EXT. STATIC 0 - 1270 CFM L



FIRST FLOOR EQUIPMENT :

2.0 TON
TEMPSTAR FSM2X2400 13 SEER
TEMPSTAR N2H324AKA 13 SEER
5.0 KW
BRAEBURN 5200 PROGRAMABLE 2 STAGE
BROAN 671 (70 CFM) (2)
SIZE OF REDUCTION BOXES (DB6-16x14x16x12x15)
SIZE OF TRIANGLES (15x15x15x15)

ALL TAPES, CONNECTORS & MASTIC
USED WILL BE UL-181 APPROVED
EXT. STATIC .60 - 595 CFM H

H.V.A.C. ISOMETRIC

REVISIONS :
ADJUST. CFM's @ MBR/LOFT/BR#2 (8/8/05)
02-07-06 REVISED 1ST FLOOR UNIT NOTE
12/07/06 COMPLETE 13 SEER UPDATE TJM

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

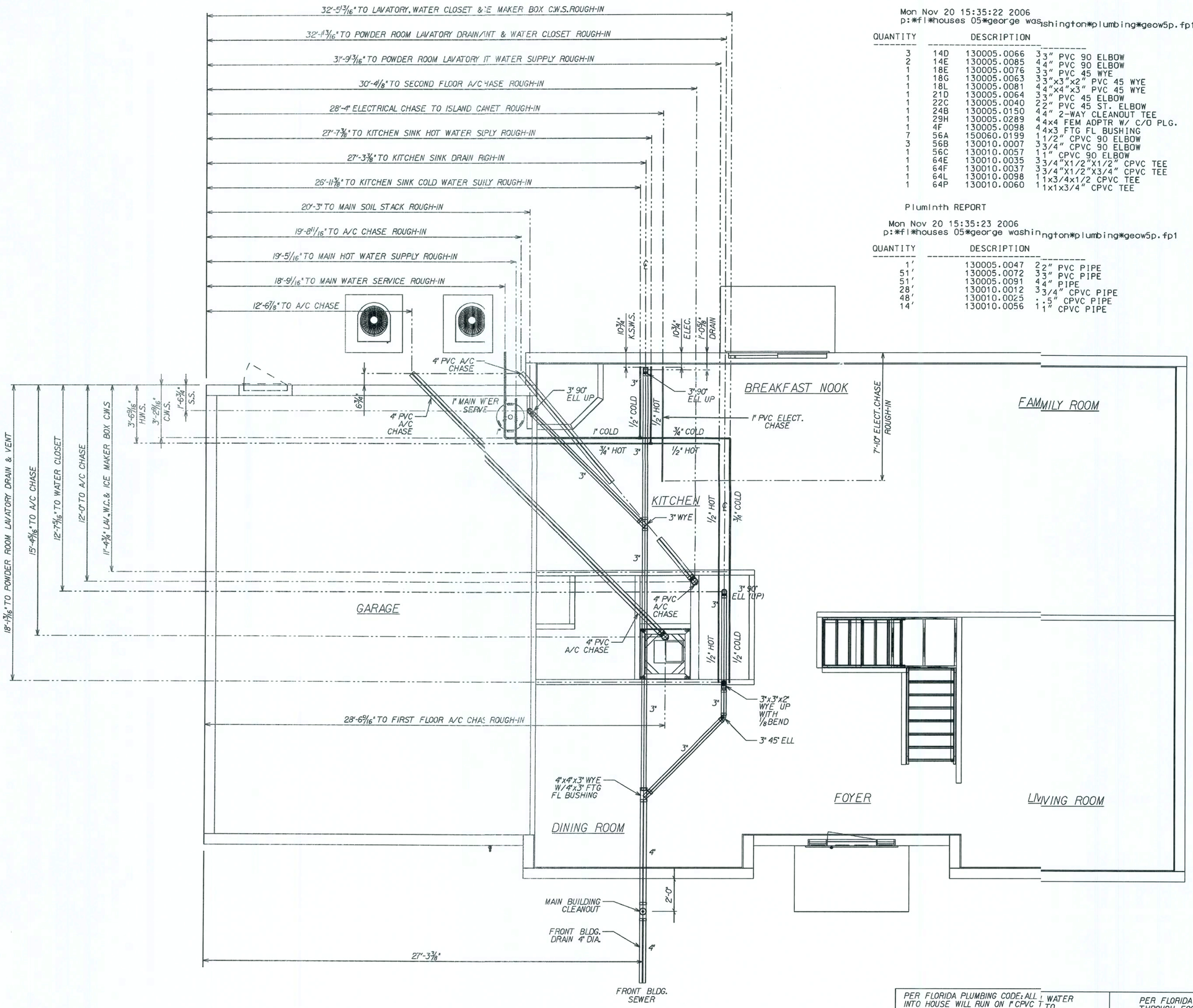
FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE FLORIDA REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

AMERICANA HVAC ISOMETRICS
GEO. WASHINGTON-5
5 BEDROOM
GARAGE: LEFT
DRAWN BY:
RELEASE DATE: 07/22/04

SHEET:
ISO-H

PLOT DATE: 15 JAN 2008 15:47:00
D:\houses_05\george_washington\hvac\geow5h-r13.iso

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



plumitem REPORT

Mon Nov 20 15:35:22 2006
p:*fl*houses 05*george washington*plumbing*geow5p.fp1

QUANTITY		DESCRIPTION	
3	14D	130005.0066	3 3" PVC 90 ELBOW
2	14E	130005.0085	4 4" PVC 90 ELBOW
1	18E	130005.0076	3 3" PVC 45 WYE
1	18G	130005.0063	3 3"x3"x2" PVC 45 WYE
1	18L	130005.0081	4 4"x4"x3" PVC 45 WYE
1	21D	130005.0064	3 3" PVC 45 ELBOW
1	22C	130005.0040	2 2" PVC 45 ST. ELBOW
1	24B	130005.0150	4 4" 2-WAY CLEANOUT TEE
1	29H	130005.0289	4 4x4 FEM ADPTR W/ C/O PLG.
1	4F	130005.0098	4 4x3 FTG FL BUSHING
7	56A	150060.0199	1 1/2" CPVC 90 ELBOW
3	56B	130010.0007	3 3/4" CPVC 90 ELBOW
1	56C	130010.0057	1 1" CPVC 90 ELBOW
1	64E	130010.0035	3 3/4"X1/2"X1/2" CPVC TEE
1	64F	130010.0037	3 3/4"X1/2"X3/4" CPVC TEE
1	64L	130010.0098	1 1x3/4x1/2 CPVC TEE
1	64P	130010.0060	1 1x1x3/4" CPVC TEE

Pluminth REPORT

Mon Nov 20 15:35:23 2006
p:*fl*houses 05*george washington*plumbing*geow5p.fp1

QUANTITY	DESCRIPTION	
1'	130005.0047	2 2" PVC PIPE
51'	130005.0072	3 3" PVC PIPE
51'	130005.0091	4 4" PIPE
28'	130010.0012	3 3/4" CPVC PIPE
48'	130010.0025	. .5" CPVC PIPE
14'	130010.0056	1 1" CPVC PIPE

REVISIONS :

AJ REV. A/C CHASE 4" PVC	11/29/05 T.J.T.
6/30/06 REV. PLBG FTGS & BOM LIST	TJM
08/09/06 REV. CLEANOUT & BOM LIST	TJM
11/20/06 REV. A/C CHASE/MAIN SEWER	TJM

Maronda Homes
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FLORIDA:
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AMERICANA UNDERGROUND PLBG

GEO. WASHINGTON-5

5 BEDROOM

GARAGE: LEFT

DRAWN BY: TOM MARTINEZ

RELEASE DATE: 07/19/04

15:47:29

PLOT DATE: 15 JAN 2008

DAV/houses_05/george_washington/plumbing/geow5pr.fpl

SHEET: FP1

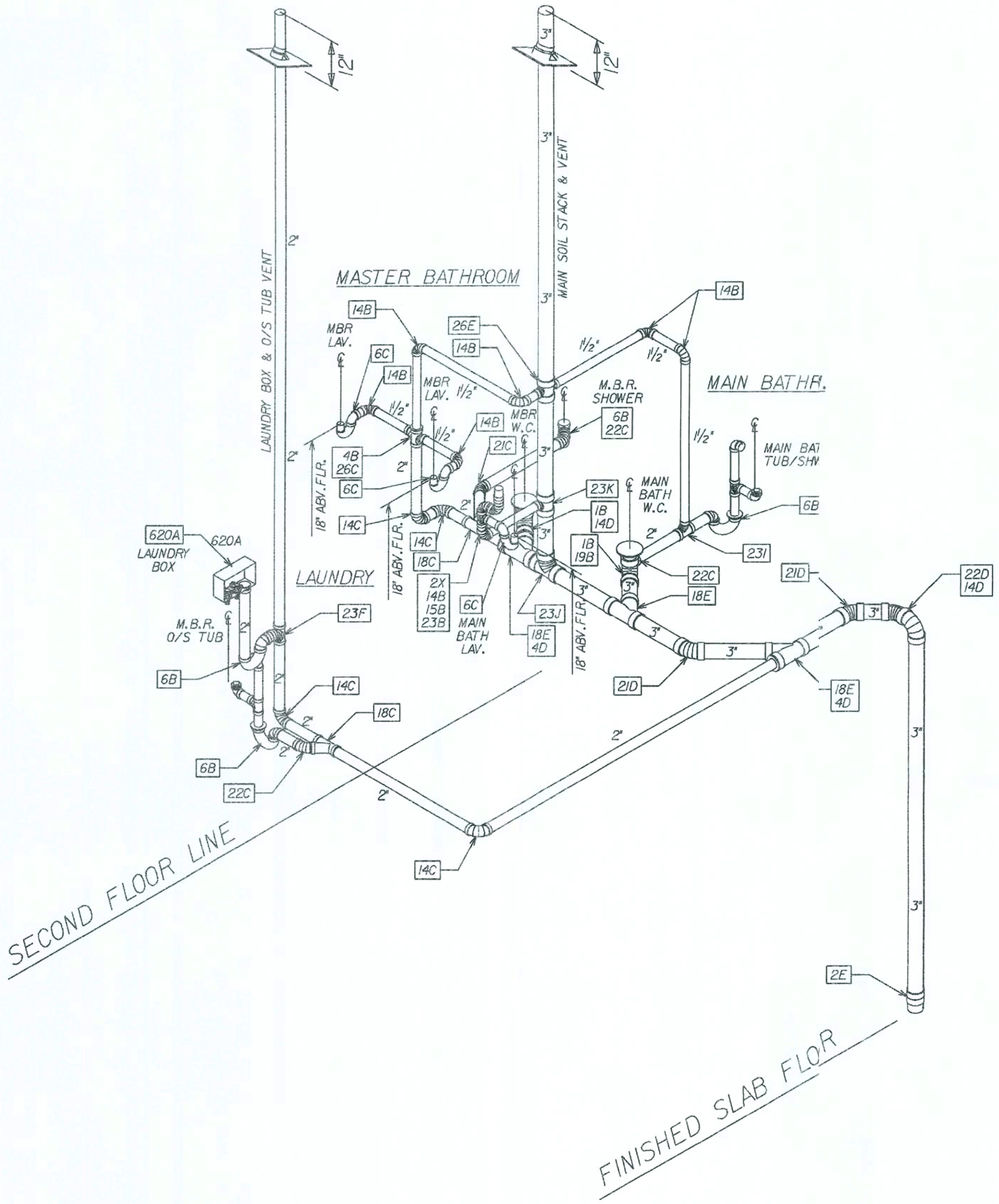
PER FLORIDA PLUMBING CODE: ALL WATER INTO HOUSE WILL RUN ON 1" CPVC TO FIRST FIXTURE GROUP.

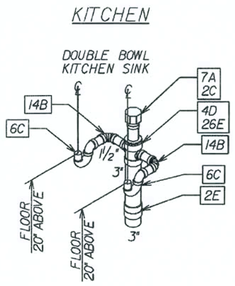
REVISED 10-03-06

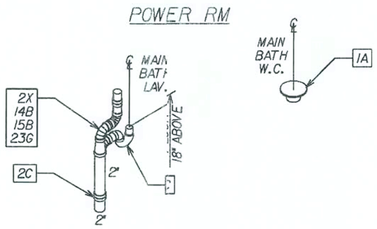
PER FLORIDA PLUMBING CODE: ALL DWV THROUGH FOOTERS WILL BE SLEEVED

REVISED 08-15-05

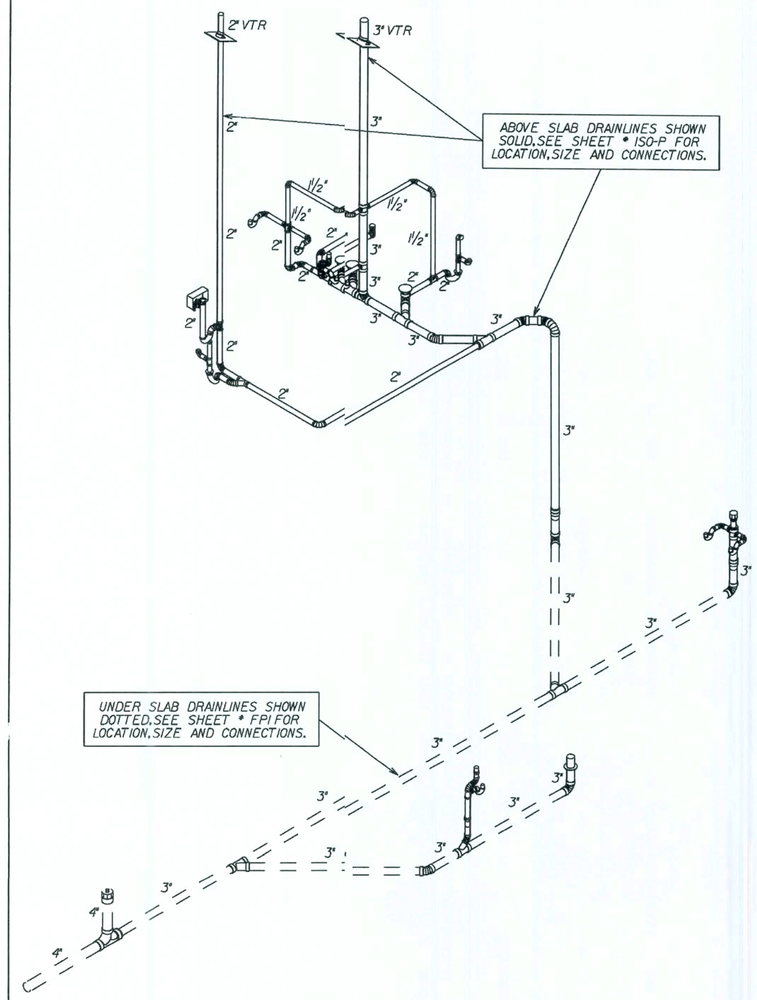
FLORIDA BUILDING CODE 2004 : RESIDENTIAL







COMPLETE SANITARY PLUMBING DIAGRAM:



plumitem REPORT

Fri Sep 15 08:20:36 2006
p:*fl*houses 05*george washington*plumbing*geow5p.plm

QUANTITY		DESCRIPTION	
11	14B	130005.0013	1.5" PVC 90 ELBOW
4	14C	130005.0041	2" PVC 90 ELBOW
2	14D	130005.0066	3" PVC 90 ELBOW
2	15B	130005.0015	1.5" PVC 90 ST. ELBOW
2	18C	130005.0053	2" PVC 45 WYE
3	18E	130005.0076	3" PVC 45 WYE
1	19B	130005.0005	3"x3"x2" 90 ELBOW W/LOW HEEL INL
3	1B	130005.0099	4"X3" CLOSET FLANGE
1	21C	130005.0039	2" PVC 45 ELBOW
2	21D	130005.0064	3" PVC 45 ELBOW
3	22C	130005.0040	2" PVC 45 ST. ELBOW
1	22D	130005.0065	3" PVC 45 ST. ELBOW
1	23B	130005.0024	1.5" PVC TEE
1	23F	130005.0048	2" PVC TEE
1	23G	130005.0029	2"x1.5"x1.5" PVC TEE
1	23I	130005.0034	2"x2"x1.5" PVC TEE
1	23J	130005.0074	3" PVC TEE
1	23K	130005.0056	3"x3"x1.5" PVC TEE
1	26C	130005.0133	2"x2"x1.5"x1.5" DOUBLE TEE
2	26E	130005.0132	3"x3"x1.5"x1.5" DOUBLE TEE
2	2C	130005.0043	2" PVC COUPLING
2	2E	130005.0068	3" PVC COUPLING
2	2X	130050.0077	1.5" COUPLING W/ AUTOVENT
1	46B	130050.0125	2" NEOPRENE ROOF FLASHING
1	46C	130050.0028	3" NEOPRENE ROOF FLASHING
3	4B	130005.0032	2x1.5 FTG FL BUSHING
3	4D	130005.0059	3x2 FTG FL BUSHING
1	620A	130035.0027	Laundry Box Left
2	670A	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
1	6B	130005.0046	2" P-TRAP PartA
1	6B	130005.0046	2" P-TRAP PartB
3	6B	130005.0046	2" P-TRAP
6	6C	130005.0107	1.5"x1.25" P-TRAP W/UNION JT
1	7A	130005.0160	1.25-2" STUDOR MINI-VENT
19'		130005.0023	1.5" PIPE
40'		130005.0047	2" PVC PIPE
30'		130005.0072	3" PVC PIPE

REVISIONS :
09/15/06 REVD.KITCHEN SINK ASSEM.-TJM

Maronda Homes
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FLORIDA STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPPLEMENT

AMERICANA D.W.V.PLUMBING ISO

GEO. WASHINGTON-5

5 BEDROOM

DRAWN BY: GARAGE: LEFT

RELEASE DATE: 07-22-04 TOM MARTINEZ

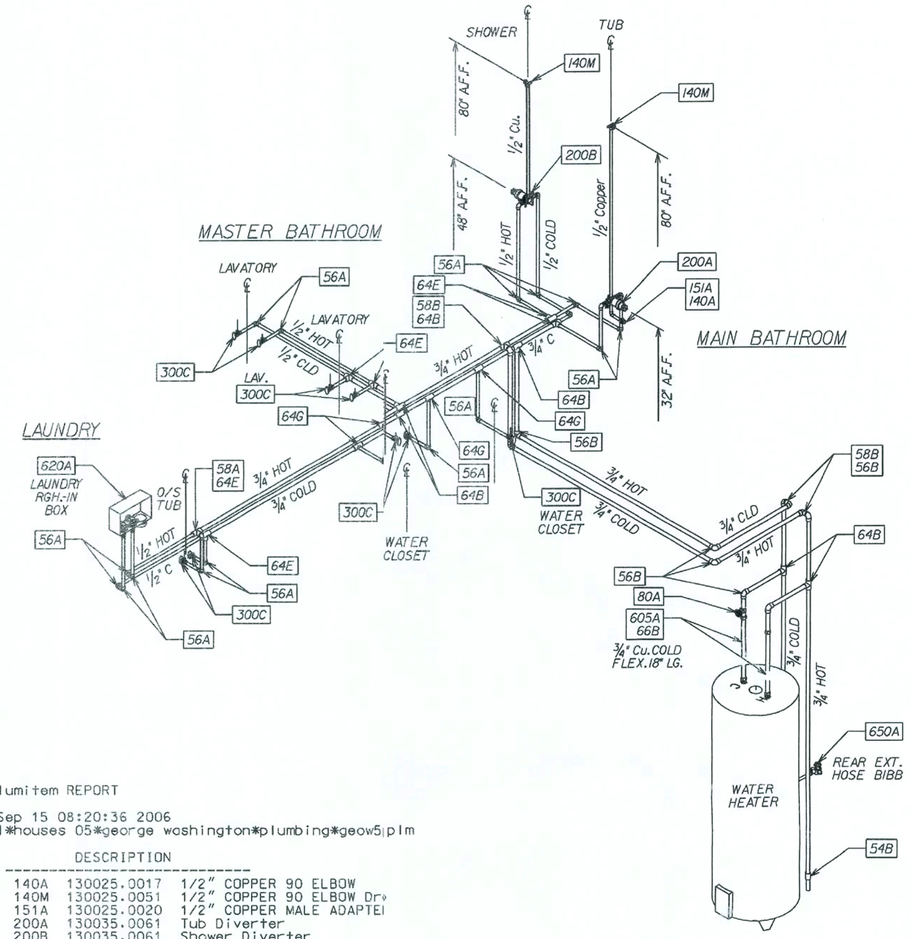
p:\fl\houses_05\george_washington\plumbing\geow5pr.iso

15:41:30

PLOT DATE: 15 JAN 2008

SHEET: ISO-P

FLORIDA BUILDING CODE 2004 :RESIDENTIAL



plumitem REPORT

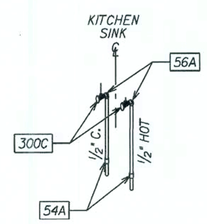
Fri Sep 15 08:20:36 2006
p:*fl*houses 05*george washington*plumbing*geow5plm

QUANTITY			DESCRIPTION
1	140A	130025.0017	1/2" COPPER 90 ELBOW
2	140M	130025.0051	1/2" COPPER 90 ELBOW Dr
1	151A	130025.0020	1/2" COPPER MALE ADAPTEI
1	200A	130035.0061	Tub Diverter
1	200B	130035.0061	Shower Diverter
15	300C	130010.0046	1/2" x 3/8"Angle Valve
4	54A	130010.0022	1/2" CPVC COUPLING
2	54B	130010.0009	3/4" CPVC COUPLING
20	56A	150060.0199	1/2" CPVC 90 ELBOW
8	56B	130010.0007	3/4" CPVC 90 ELBOW
6	58A	130010.0027	1/2" CPVC 90 ST. ELBOW
3	58B	130010.0008	3/4" CPVC 90 ST. ELBOW
2	605A	130055.0047	Corr Gas App Conn
1	620A	130035.0027	Laundry Box Left
1	630A	130035.0057	Ice Maker Box
6	64B	130010.0013	3/4" CPVC TEE
7	64E	130010.0035	3/4"X1/2"X1/2" CPVC TEE
5	64G	130010.0005	3/4"X3/4"X1/2" CPVC TEE
1	650A	130050.0109	1/2" Hose Bib
2	66B	130010.0010	3/4" CPVC MALE ADAPTER (ASS THREADS
1	80A	130010.0006	3/4" CPVC SHUTOFF VALVE

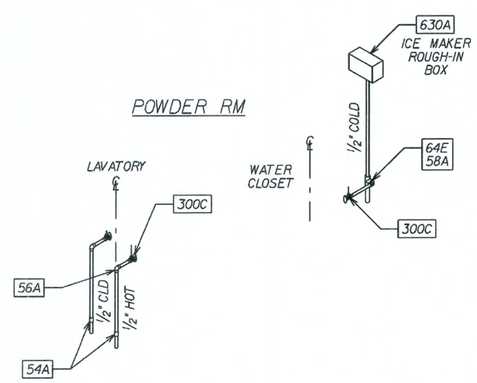
Pluminth REPORT

Fri Sep 15 08:20:36 2006
p:*fl*houses 05*george washington*plumbing*geow5p.pı

QUANTITY		DESCRIPTION
19'	130005.0023	1.5" PIPE
40'	130005.0047	2" PVC PIPE
30'	130005.0072	3" PVC PIPE
62'	130010.0012	3/4" CPVC PIPE
43'	130010.0025	.5" CPVC PIPE
7'	130025.0006	1/2" COPPER Pipe



KITCHEN



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

REVISED 10-03-06

REVISIONS :

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

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

AMERICANA | WATER LINES ISO.

GEO. WASHINGTON-5

5 BEDROOM

DRAWN BY: | GARAGE: LEFT

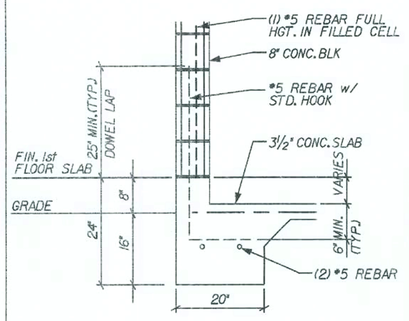
RELEASE DATE: 6-25-04 | TOM MARTINEZ

SHEET: ISO-W

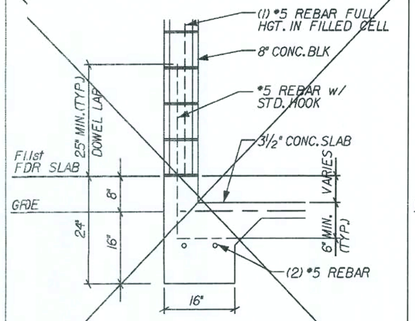
PLOT DATE: 15 JAN 2008 15:41:31

p:\houses_05\george_washington\plumbing\geow5wr1so

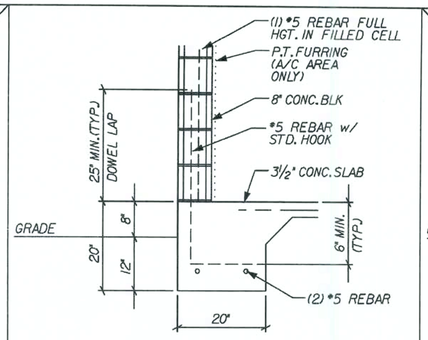
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



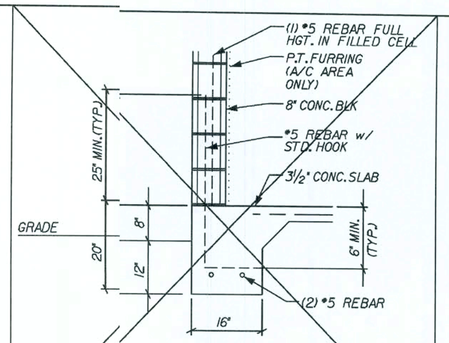
G2 GARAGE 2-STORY
REVISED 11-07-06
DELETED STONE LEDGE
SCALE: ½" = 1'-0"



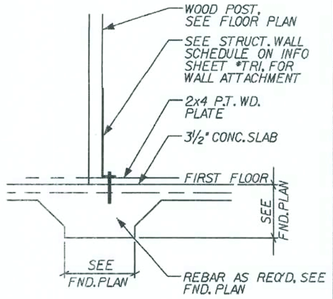
3 GARAGE 1-STORY
REVISED 11-07-06
DELETED STONE LEDGE
NOT USED
SCALE: ½" = 1'-0"



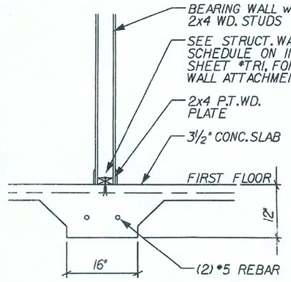
A2 TYPICAL 2-STORY
REVISED 11-07-06
DELETED STONE LEDGE
SCALE: ½" = 1'-0"



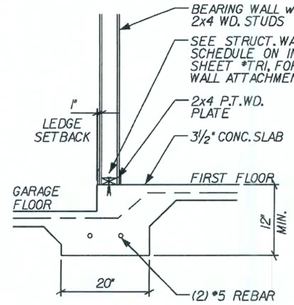
A TYPICAL 1-STORY
REVISED 11-07-06
DELETED STONE LEDGE
NOT USED
SCALE: ½" = 1'-0"



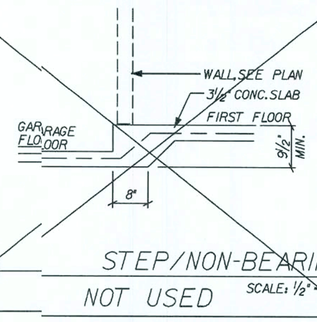
J INTERIOR BEARING POST
SCALE: ½" = 1'-0"



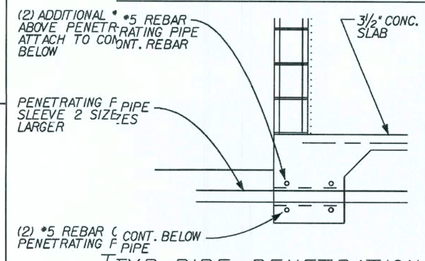
I INTERIOR BEARING
SCALE: ½" = 1'-0"



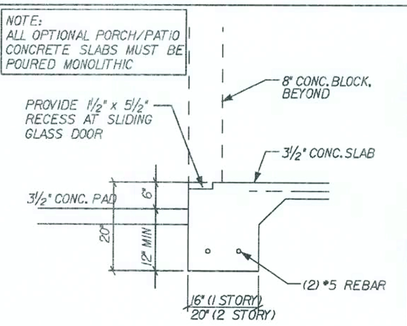
H STEP/BEARING
REVISED 01-31-05
SCALE: ½" = 1'-0"



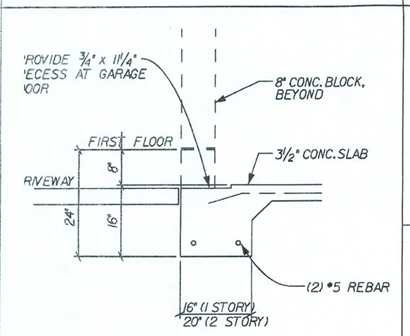
F STEP/NON-BEARING
NOT USED
SCALE: ½" = 1'-0"



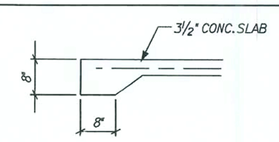
TYP. PIPE PENETRATION
REVISED 06-01-06
ADDED DETAIL
SCALE: ½" = 1'-0"



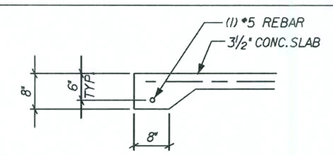
S RECESS @ SLIDER
REVISED 05-06-05
SCALE: ½" = 1'-0"



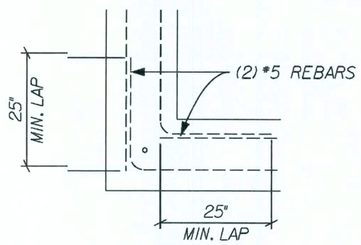
R THICK'N EDGE/GARAGE
REVISED 04-23-06
SCALE: ½" = 1'-0"



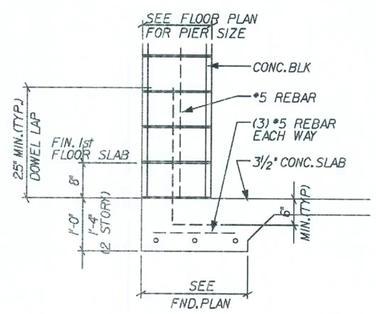
N THICK'N EDGE
SCALE: ½" = 1'-0"



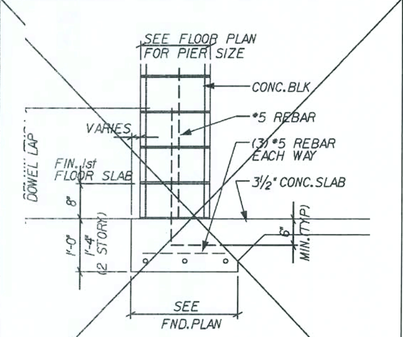
P THICK'N EDGE/BEARING
SCALE: ½" = 1'-0"



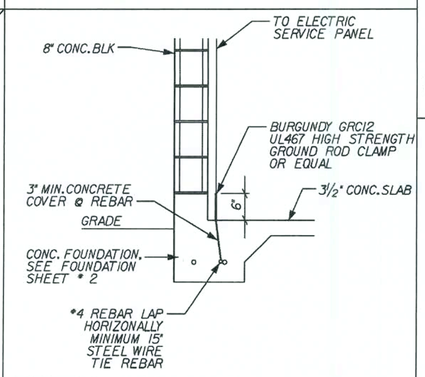
TYP. FTNG @ CORNERS
04-07-08 ONLY
SCALE: ½" = 1'-0"



U PIER DETAIL #2
REVISED 02-20-07
16" DEEP @ 2 STORY
SCALE: ½" = 1'-0"



7 PIER DETAIL #1
REVISED 02-20-07
16" DEEP @ 1 & 3 STORY
USED
SCALE: ½" = 1'-0"



TYP. CONC. ENCASED ELECTRODE
SCALE: ½" = 1'-0"

REVISIONS :

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

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

FOOTINGS | STANDARD DETAILS

GEO. WASHINGTON

GARAGE:

DRAWN BY:

RELEASE DATE: 07/14/04

15:45:11

PLOT DATE: 15 JAN 2008

p:\f\houses_05\george_washington\dtl\ges-std.ftg

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

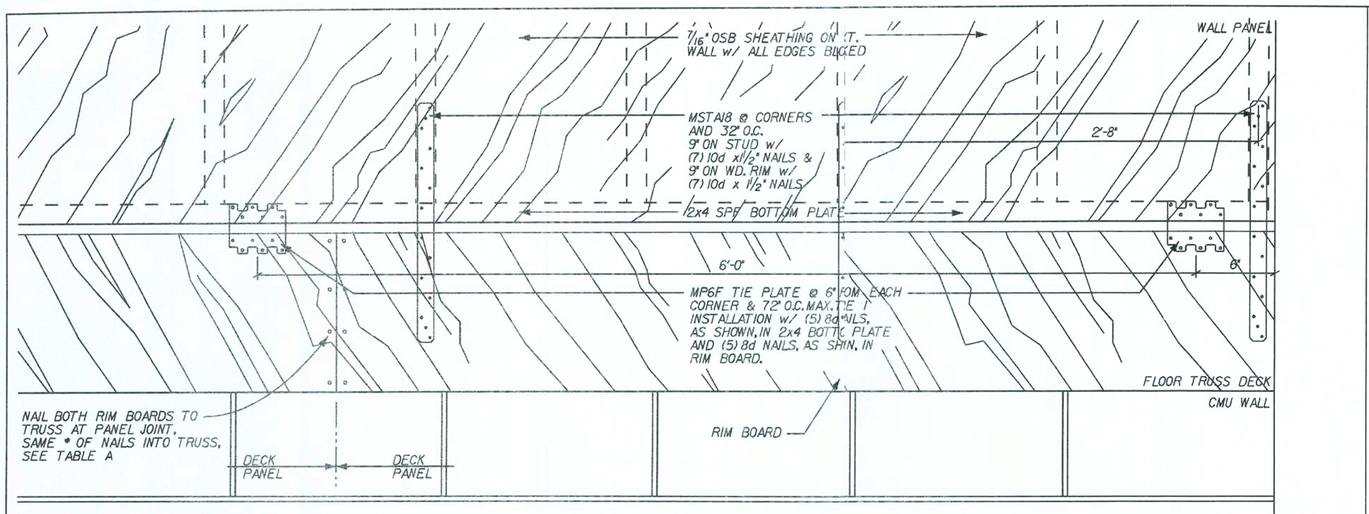
Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:

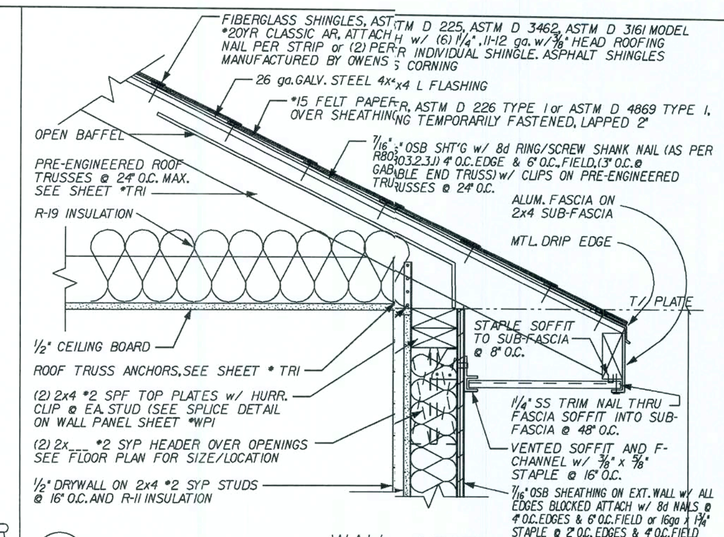
FTG

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



J — TYPICAL WALL CONNECTION-TRUSS FLOOR

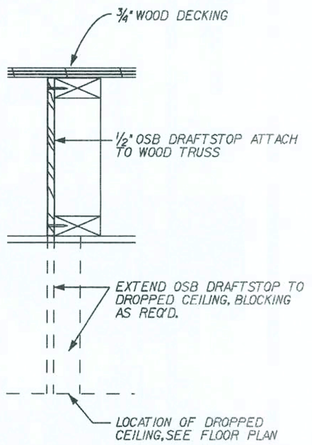
SCALE: 1 1/2" = 1'-0"



C — WALL SECTION-FRAMED ROOF

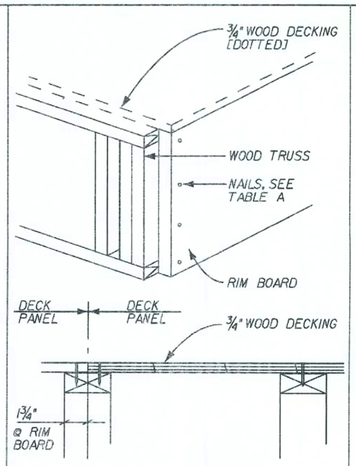
REVISED 05-02-07 - OSB ROOF NAIL TYPE

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



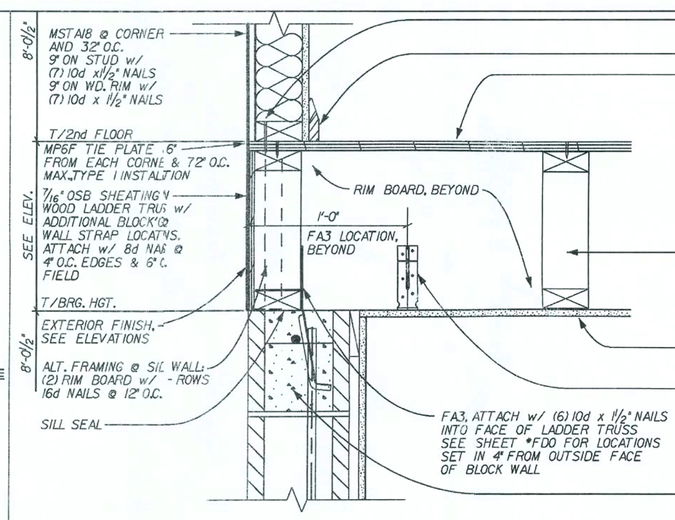
H — DRAFT STOPPING-TRUSS FLOOR

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



G — DECK CONNECTION @ PANEL JOINT TRUSS FLOOR

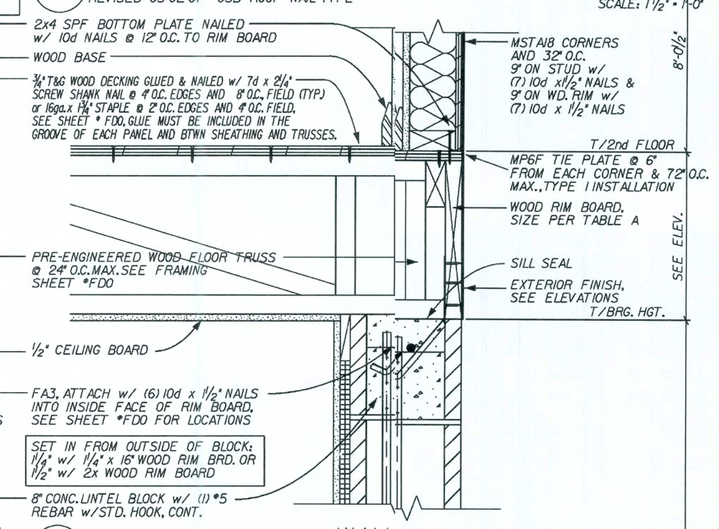
SCALE: 1 1/2" = 1'-0"



E — PARTIAL SECTION-TRUSS FLOOR SIDE WALL

REVISED 05-1-07 FLOOR DECK AIL'G

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



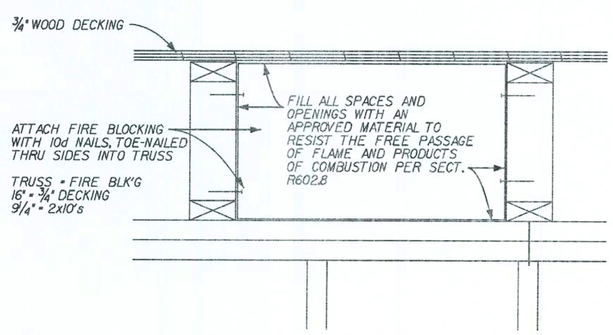
B — WALL SECTION-TRUSS FLOOR

REVISED 05-02-07 FLOOR DECK NAIL'G

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

TABLE A

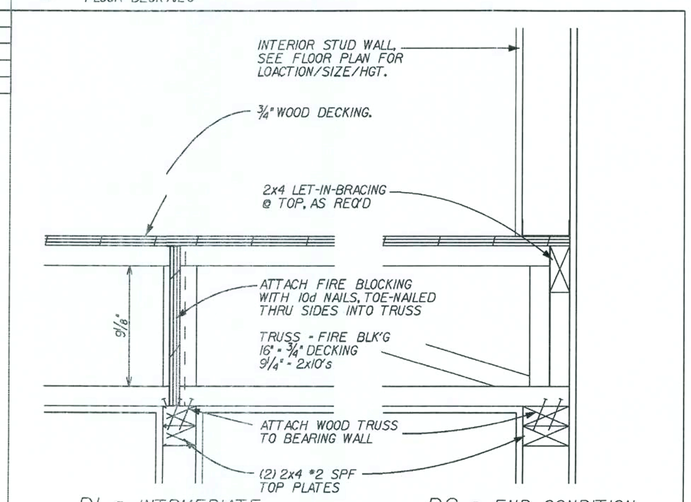
TRUSS DEP.	RIM BD.	# NAILS, RIM BRD. TO FLOOR TRUSS
9 1/4"	2x10	(4) 10d NAILS
11 1/4"	2x12	(6) 10d NAILS
16"	1 1/4" x 16"	(6) 10d NAILS



F — FIRE BLOCKING-TRUSS FLOOR

REVISED 05-05-06 REV. NOTE @ OPENINGS

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

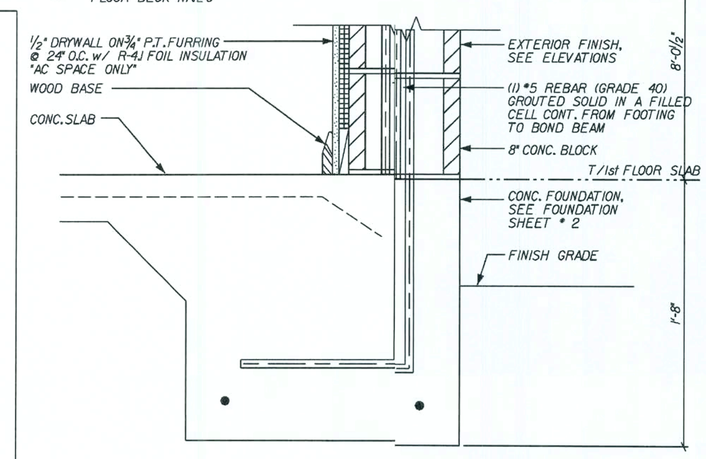


D1 @ INTRMEDIATE D2 @ END CONDITION

D — TYPICAL INTERIOR BEARING WALL-TRUSS FLOOR

REVISED 01-007 LET-IN BRACE NOTE

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



A — WALL SECTION-FOUNDATION @ BLOCK

REVISED 02-19-07 FOIL INSUL TO R-4J

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

REVISIONS :

02-13-06 REV. WOOD TRUSS FLOOR FRAM'G

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 BOCH : RESIDENTIAL AND 2005, 2006 SUPPLEMENT

TWO STORY

WALL SECTIONS

GEO. WASHINGTON

GARAGE:

DRAWN BY:

RELEASE DATE: 07/14/04

15-45sll

p:\houses_05\george_washington\fd_ws-sl.sws

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

Elmer Bergman, P.E.
License No. 50158

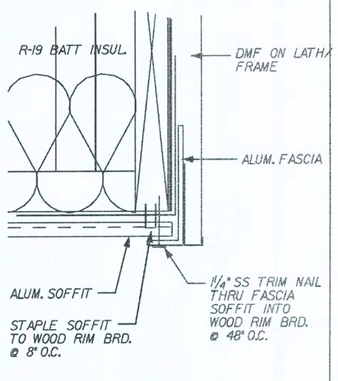
JUL 28 2008

SHEET:

WS-S1

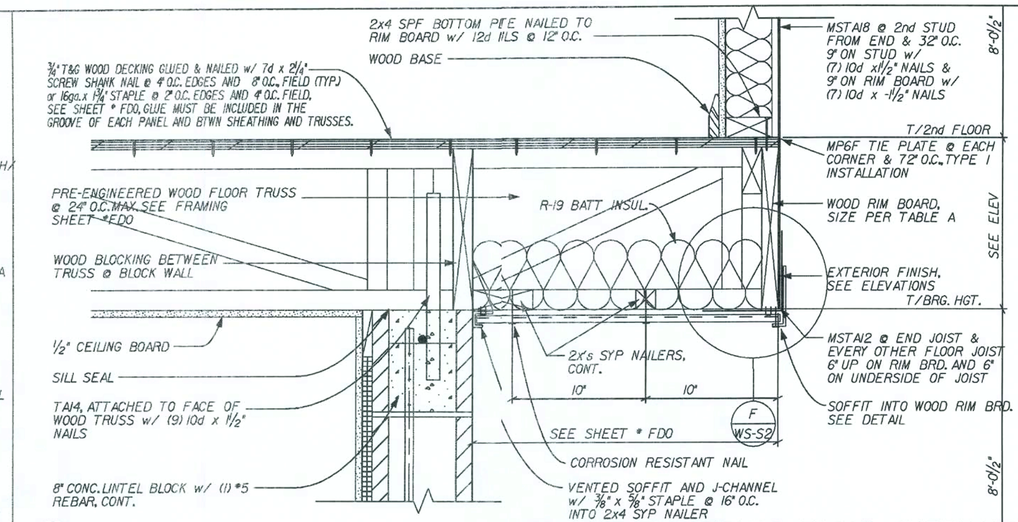
PLOT DATE: 15 JAN 2008

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



F SOFFIT CONNECTION-TRUSS FLOOR

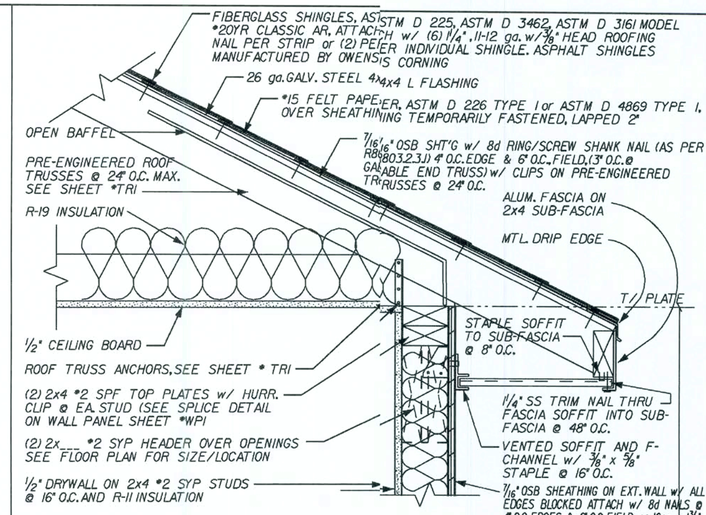
SCALE: 3" = 1'-0"



E WALL SECTION-TRUSS FLOOR OVERHANG

REVISED 05-02-07 FLOOR DECK NAIL'G

SCALE: 1½" = 1'-0"

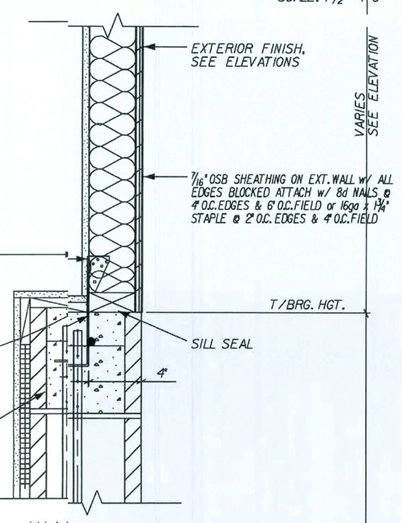


C WALL SECTION-FRAMED ROOF

REVISED 05-02-07 - OSB ROOF NAIL TYPE

SCALE: 1½" = 1'-0"

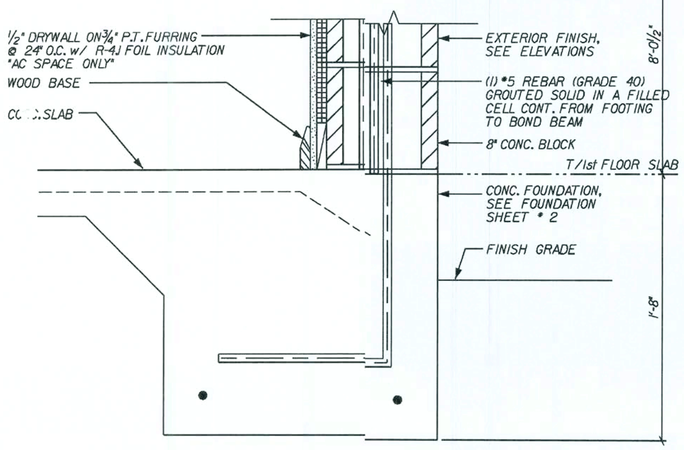
TABLE A		
TRUSS DEP.	RIM BD.	* NAILS, RIM BRD. TO FLOOR TRUSS
9¼"	2x10	(4) 10d NAILS
11¼"	2x12	(6) 10d NAILS
16"	1¼" x '	(6) 10d NAILS



B WALL SECTION-OPEN SPACE

REVISED 10-25-07 - RT3A AND FA3

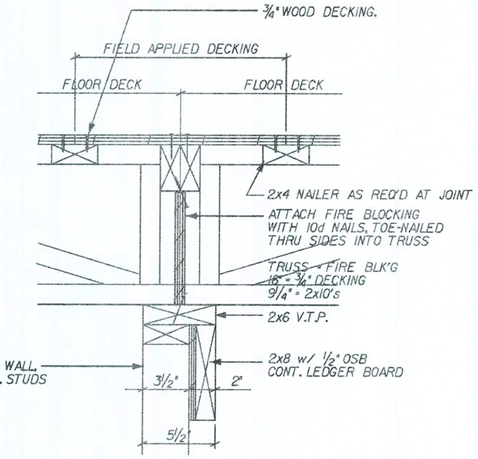
SCALE: 1½" = 1'-0"



A WALL SECTION-FOUNDATION @ BLOCK

REVISED 02-19-07 FOIL INSUL TO R-4J

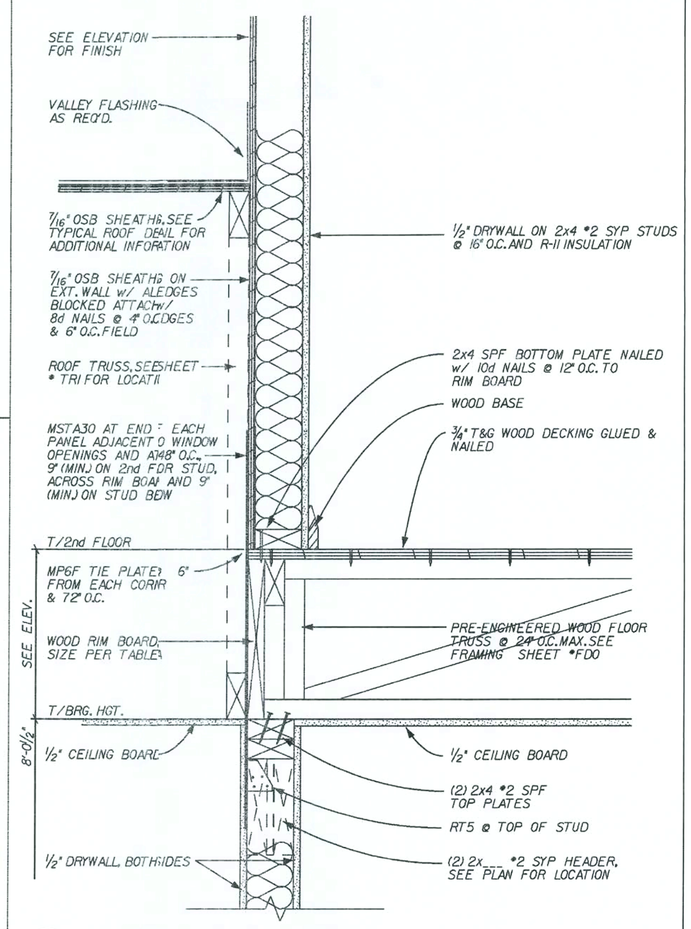
SCALE: 1½" = 1'-0"



H PANEL JOINT @ BEARING WALL-TRUSS FLOOR

REVISED 12-04-07 : REV. FIRE BLOCKING

SCALE: 1½" = 1'-0"



D PARTAL SECTION-TRUSS FLOOR/BEARING WALL

REVISED 04-07 FLOOR DEC NAIL'G

SCALE: 1½" = 1'-0"

REVISIONS :

02-13-06 REV. WOOD TRUSS FLOOR FRAM'G

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Maronda Homes

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

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

TWO STORY

WALL SECTIONS

GEO. WASHINGTON

GARAGE:

DRAWN BY:

RELEASE DATE: 07/14/04

15:45:12

PLOT DATE: 15 JAN 2008

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

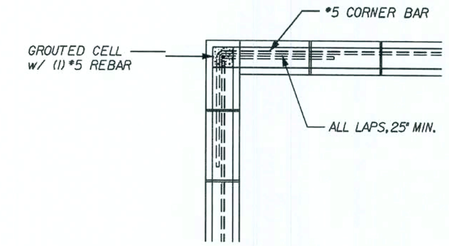
SHEET:

WS-S2

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

USP HARDWARE - 160% REVISED 05-10-06

PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
C44	USP	POST (6) 16d BEAM (6) 10d X 1½"	1000
FA3	USP	TOP (4) 10d X 1½" SIDE (2) 10d X 1½"	1155
HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1½" PLATE (10) 10d X 1½"	800
HTA 20 ANCHOR	USP	(14) 10d X 1½"	1615
HTA 20(2) ANCHOR	USP	(13) 10d X 1½"	3230
HTW24	USP	(20) 10d	1325
HUGT2	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" " EMBED. -ALL GRDR.-(8) 10d	9790
HUGT3	USP	CONC. ANC.BOLT (2)3/4"-(2)¾"WASH 3¼" 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 1½"	1250
LSTA36	USP	(22) 10d X 1½"	1640
LTW12	USP	(12) 10d	670
LTS20 STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3¼" EMBED. (10) 10d X 1½"STRAP	1890
LBP12 BEARING PLT	USP	½" 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
MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	660
MSTAI2	USP	(10) 10d	1015
MSTAI8	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)¾" ANCHOR BOLT 3¼" EMBEDDED	4635
MUGT15	USP	(22) 10d (1)⅝" ANCHOR BOLT 3¾" EMBEDDED	4165
NP37 3⅛X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1½"	
PA 28	USP	(15) 16d	3360
RT-16	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	1030
RT-16A	USP	TRUSS (9) 10d x 1½" PLATE (8) 10d	1380
RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1½"	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 1½"	1085
SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1½"	2190
SUH 26	USP	HEADER (6) 10d JACK (4) 10d X 1½"	725
SUH 28	USP	HEADER (8) 10d JACK (6) 10d X 1½"	800
TAI2 TA 12/METAL	USP	(5) #10 SCREWS (9) #10 SCREWS	825 910
TA 14	USP	(7) 10d x 1½"	920
TA 18	USP	(8) 10d x 1½"	1205
(2)TA 18	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
TA 24	USP	(8) 10d x 1½"	1205
(2)TA 24	USP	(8) 10d x 1½" 1-PLY (8) 10d x 1½" 2-PLY	2410 2410
THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1½"	2170
THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2330
THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1½"	2665
THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1½"	2485
THJ 26 2	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1½"	1010
USC63	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC3F	USP	TRUSS (8) 10d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
USC73	USP	TRUSS (8) 16d (4)¾" EXP. BOLTS #6170 2¾" EMBEDDED	1150
UGTS63	USP	TRUSS (8) 16d (2)¾" ANC. BOLTS 2¾"" EMBEDDED	6170

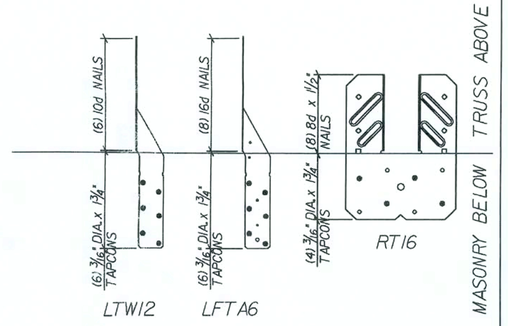


TYPICAL BOND BEAM @ CORNER

REVISED 04-22-05 SCALE: ½" = 1'-0"

SCALE: ¾" = 1'-0"

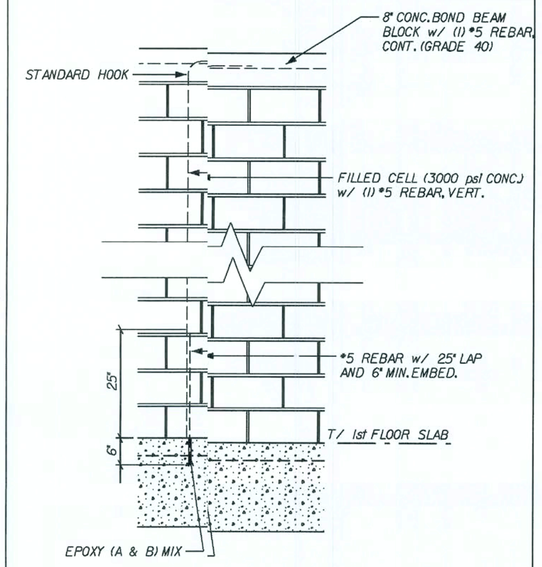
CONNECTOR	MAX. UPLIFT
LTW12	775 LBS
LFTA6	990 LBS
RT16	700 LBS



FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

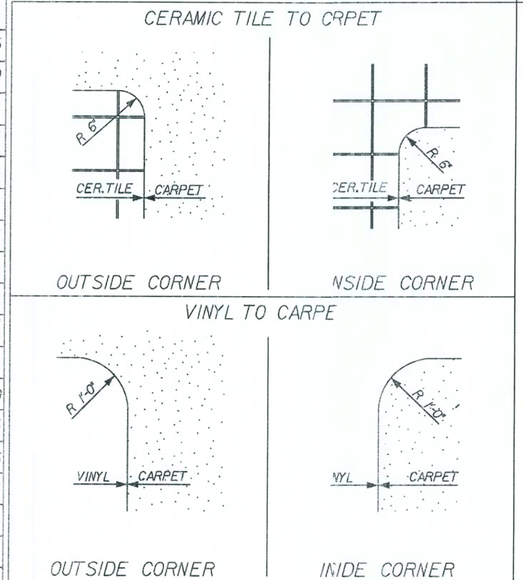
ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

SCALE: N.T.S.



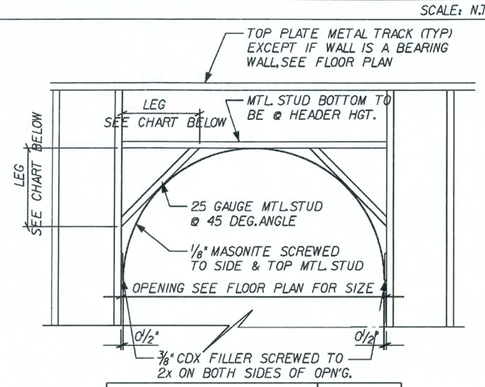
MISSED DOWN ROD REPAIR

SCALE: ½" = 1'-0"



FLOOR EDGE CORNER DETAIL

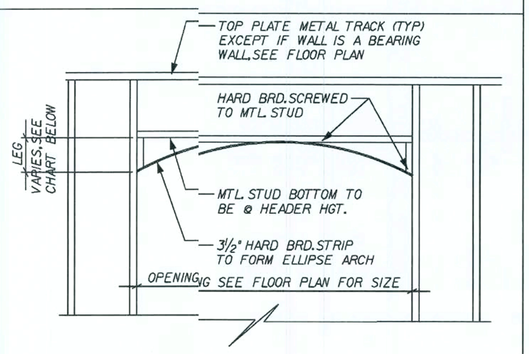
SCALE: ½" = 1'-0"



OPENING	LEGS
2'-1" = 2'-0" ARCH OPENING	7½"
2'-7" = 2'-6" ARCH OPENING	8⅞"
2'-9" = 2'-8" ARCH OPENING	9⁷⁄₁₆"
3'-1" = 3'-0" ARCH OPENING	10⅝"
4'-1" = 4'-0" ARCH OPENING	15"
-	-

INTERIOR CURVED ARCH

SCALE: ½" = 1'-0"



OPENING	LEGS
2'-0" - 3'-1"	4"
3'-2" - 4'-0"	5½"
4'-1" - 5'-0"	6½"
5'-1" - 7'-0"	8"
7'-1" - 9'-0"	9½"
9'-1" - 12'-0"	12"

INTERIOR ELLIPSE ARCH

SCALE: ½" = 1'-0"

REVISIONS :

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENT'S OF THE FLORIDA BUILDING CODE 2004 : RESIDENTIAL AND2005, 2006 SUPLEMENT

AMERICANA DTANDARD DETAILS

GEO. WASHINGTON

DRAWN BY: GARAGE:

RELEASE DATE: 07/14/04

15:45:12

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

Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:

SD1

PLOT DATE: 15 JAN 2008

p:\f\houses_05\george_washington\dtl\std_details.sdl

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

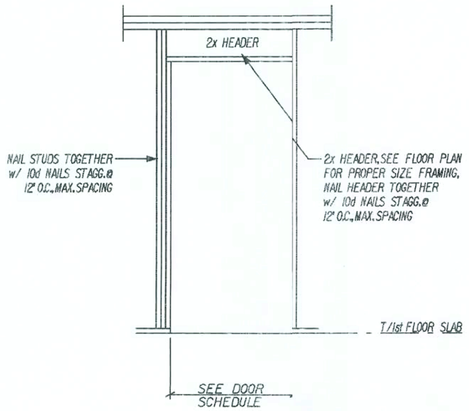
REVISED 02-15-07
83¾" -> 82⅞"

DOOR SCHEDULE

DOOR TYPE	ACTUAL SIZE	ROUGH FRAME OPENING	ROUGH BLOCK OPENING 2" BUCK
2-0 STANDARD I.S.	25½" x 80⅝"	26" x 80⅞"	29" x 82⅜"
2-8 STANDARD I.S.	33½" x 80⅝"	34" x 80⅞"	37" x 82⅜"
2-10 STANDARD I.S.	35½" x 80⅝"	36" x 80⅞"	39" x 82⅜"
3-0 STANDARD I.S.	37½" x 82"	38" x 82¼"	41" x 82⅜"
3-0 w/SIDELIGHT I.S.	51⅛" x 82"	51⅝" x 82¼"	54⅜" x 82⅜"
3-0 w/(2) SIDELIGHT I.S.	64½" x 82"	65" x 82¼"	68" x 82⅜"
5-8 (2)2-10 FRENCH I.S.	70½" x 80⅝"	71" x 80⅞"	74" x 82⅜"

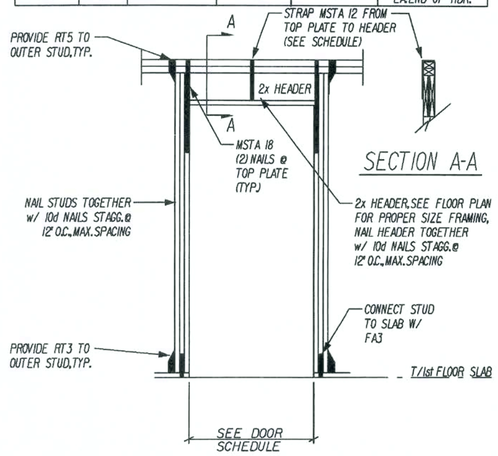
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE ¼" FOR HEIGHT
** FINISH OPENING IS DETERMINED BY ACTUAL SIZE ½" FOR WIDTH
** O.S.= OUTSWING
** I.S.= INSWING

MAX. OPNG SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	UDS @ A.END 10'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	

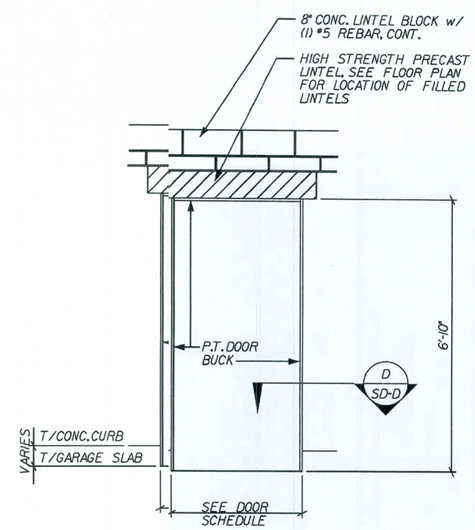


K STD.DOOR - WD FRAME,NO-UPLIFT
SCALE: N.T.S.

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.

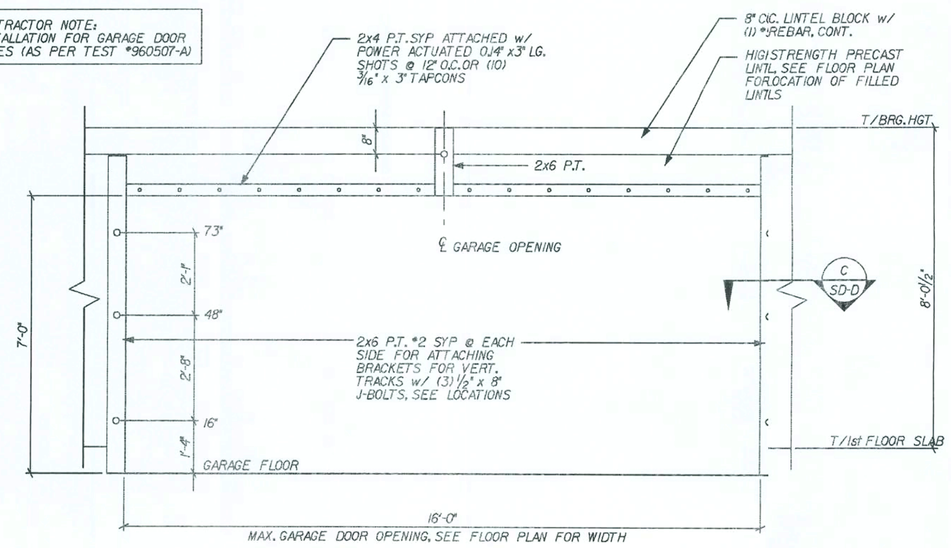


J STD.DOOR - WD FRAME,UPLIFT
SCALE: N.T.S.

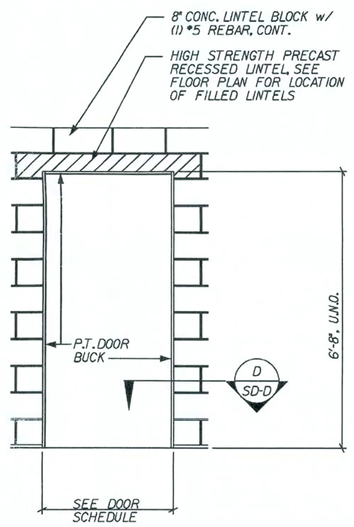


H OPTIONAL SERVICE DOOR
REVISED 08-12-04
SCALE: ⅜" = 1'-0"

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

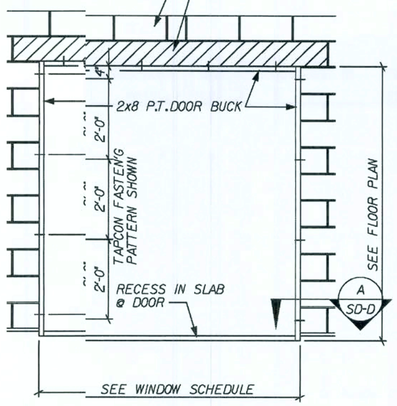


G GARAGE DOR ELEVATION
SCALE: ⅜" = 1'-0"

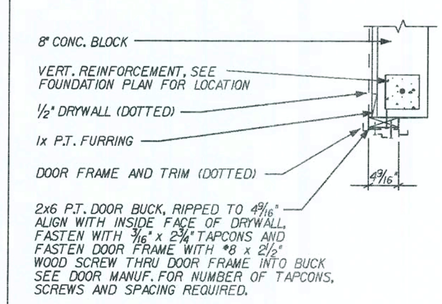


F STANDARD DOOR ELEVATION
SCALE: ⅜" = 1'-0"

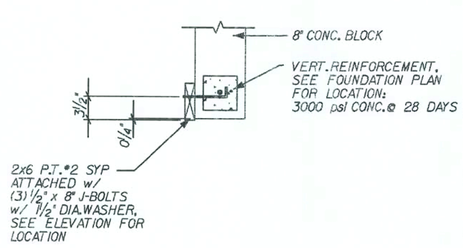
CONTRACTOR NOTE:
FOR INSTALLATION SIZES OF NORANDEX SLIDING DOOR SERIES 500 UP TO 8'-0" x 6'-8" AS PER #96-0131J0 & SERIES 502 UP TO 8'-0" x 8'-0" MAX. (AS PER TEST #96-0608.20)



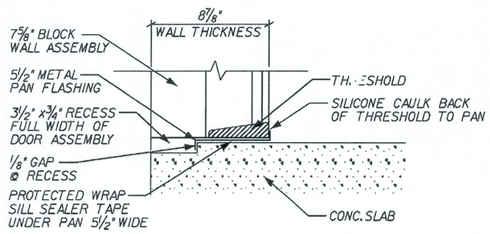
E SLIDING GLASS DOOR ELEVATION
SCALE: ⅜" = 1'-0"



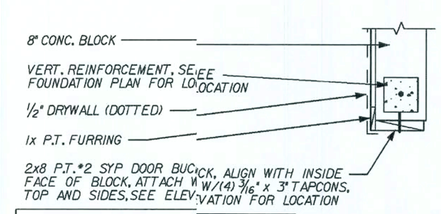
D 2x DOOR BUCK DETAIL
SCALE: ¾" = 1'-0"



C GARAGE DOOR BUCK DETAIL
SCALE: ¾" = 1'-0"



B DOOR PAN FLASHING
REVISED 06-08-06
NEW DETAIL
SCALE: ¾" = 1'-0"



* ALLOWABLE CONTINUOUS FILLER, UP TO 1x NAILED TO 2x8 @ 6" O.C. STAGGERED

A SLIDING GLASS DOOR BUCK DETAIL
REVISED 10-21-04
SCALE: ¾" = 1'-0"

REVISIONS :
07-18-06 ADDED DOOR PAN DETAIL

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 2006 SUPPLEMENT

DOORS STANDARD DETAILS

GEO. WASHINGTON

GARAGE:
DRAWN BY:
RELEASE DATE: 07/14/04

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(407)321-0064

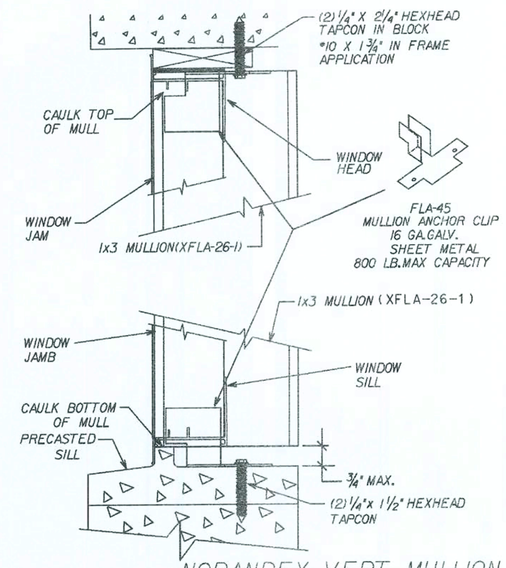
Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:
SD-D

PLOT DATE: 15 JAN 2008 15:45:13
p:\f\houses_DS\george_washington\dt\std_doors.sld

FLORIDA BUILDING CODE 2004 : RESIDENTIAL

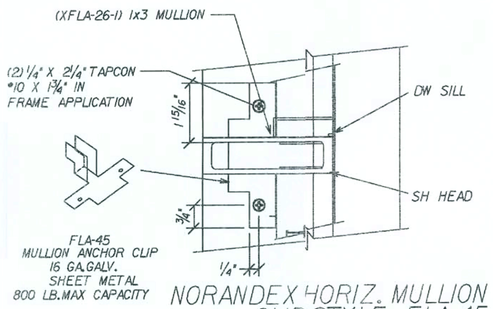


NORANDEX VERT. MULLION CLIP STYLE FLA-45

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

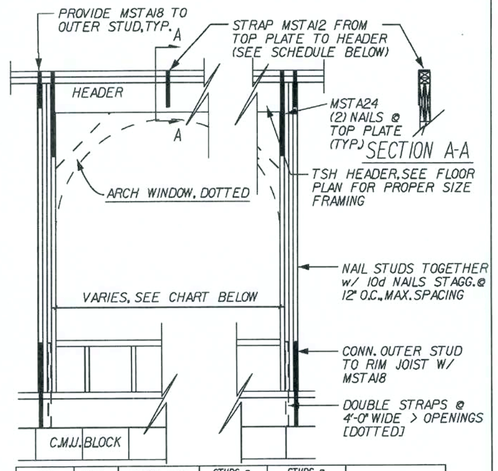
CONTRACTOR NOTE:
FOR INSTALLATION SIZE OF NORANDEX WINDOW SERIES 437/438 UP TO 53 1/8" X 76 3/8" AS PER TEST #96-06240

STANDARD WINDOW DETAILS IN BLOCK WALLS UP TO 10 FEET HIGH



NORANDEX HORIZ. MULLION CLIP STYLE FLA-45

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

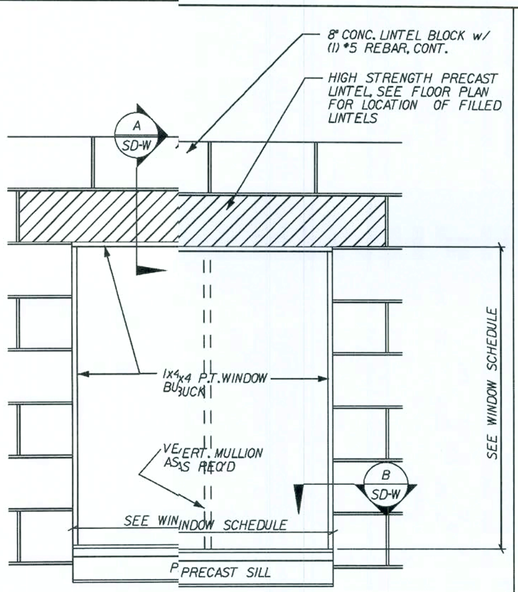


MAX. OPN'G SIZE	JACKS @ EA.END	HEADER SIZE	STUDS @ EA.END 8'-0" MAX.HGT.	STUDS @ EA.END 10'-0" MAX.HGT.	MSTA 12
2'-3"	(1)	2x HEADER, SEE FLOOR PLAN FOR PROPER SIZE FRAMING	1	2	N/A
3'-3"	(1)		1	2	(1) @ CEN.OF HOR.
6'-3"	(2)		2	3	(1) @ 2'-0" OFF EA.END OF HOR.

K TYP. HEADER DETAIL-2ND FLOOR FRAMING

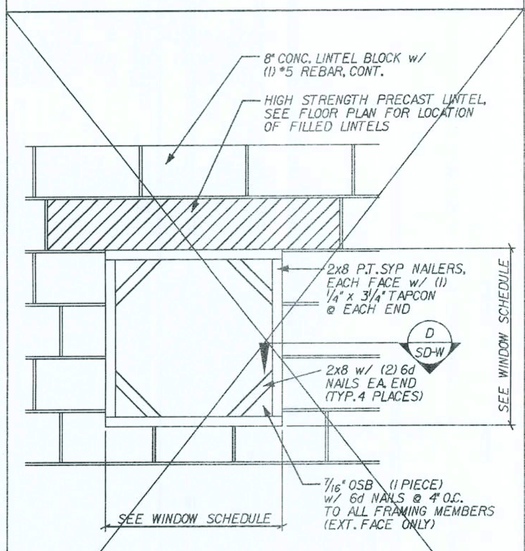
REVISED 06-06-07 : PER WALL PANELS

SCALE: N.T.S.



J WINDOW-STANDARD-BLK

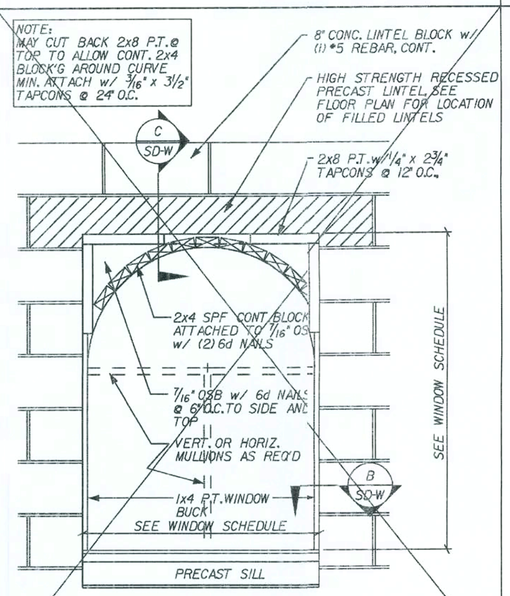
SCALE: 3/4" = 1'-0"



H WINDOW-OCTAGON-BLK

NOT USED

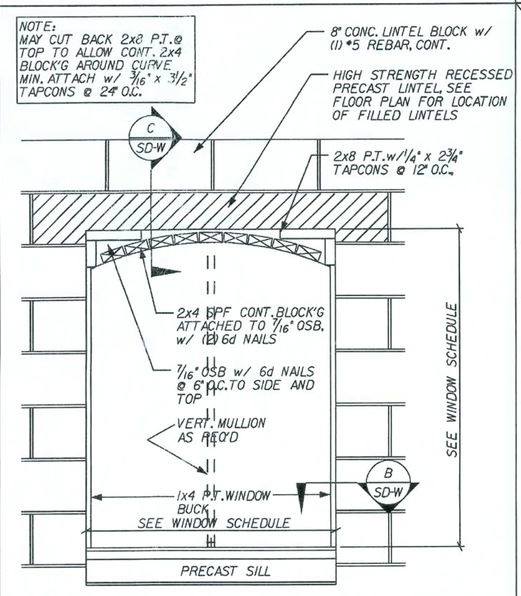
SCALE: 3/4" = 1'-0"



G WINDOW-1/2 ROUND TOP-BLK

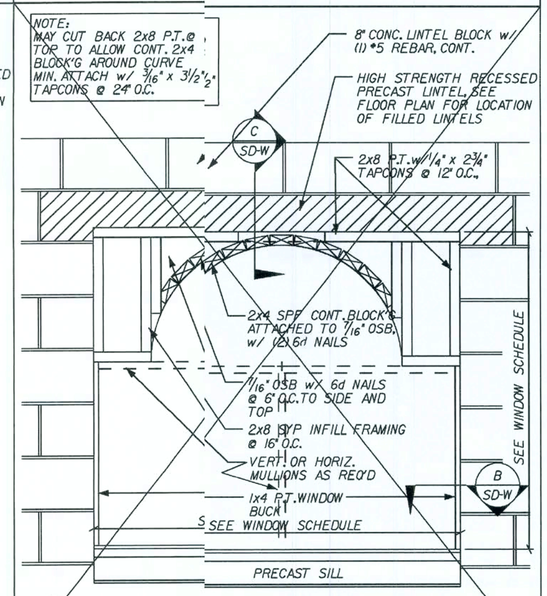
NOT USED

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



F WINDOW-EYEBROW-BLK

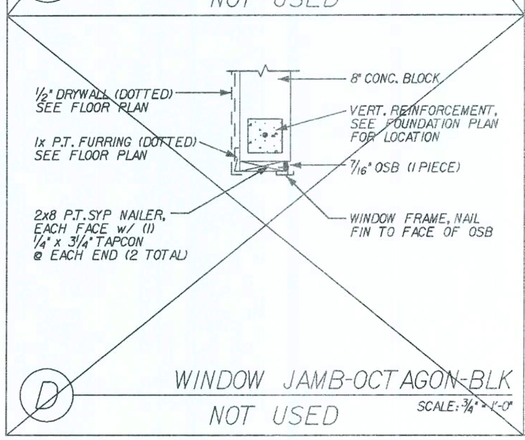
SCALE: 3/4" = 1'-0"



E WINDOW-COMBINATION-BLK

NOT USED

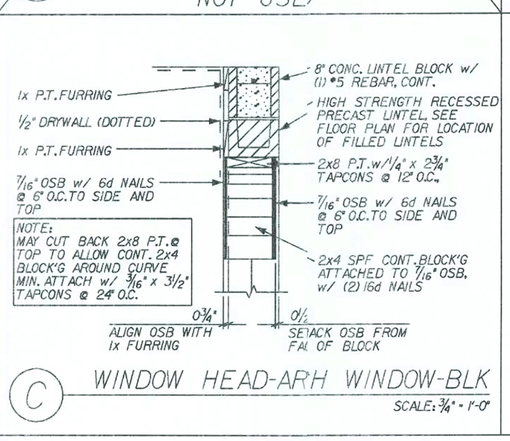
SCALE: 3/4" = 1'-0"



D WINDOW JAMB-OCTAGON-BLK

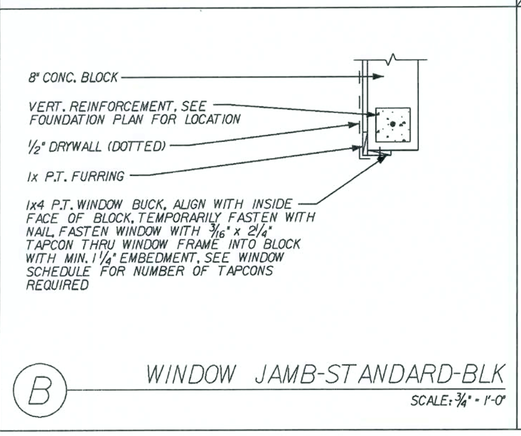
NOT USED

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



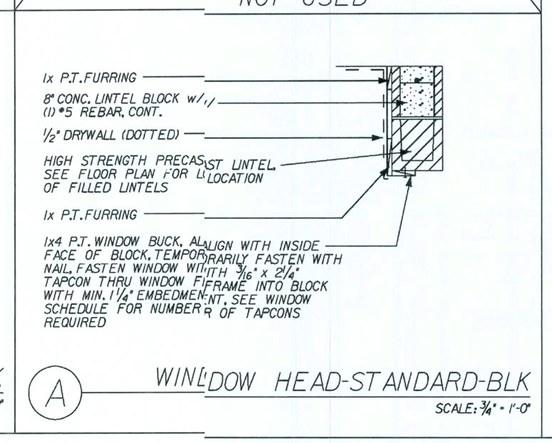
C WINDOW HEAD-ARCH WINDOW-BLK

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



B WINDOW JAMB-STANDARD-BLK

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



A WINDOW HEAD-STANDARD-BLK

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

REVISIONS :

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(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

WINDOWS STANDARD DETAILS

GEO. WASHINGTON

DRAWN BY:
GARAGE:
RELEASE DATE: 07/14/04

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Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

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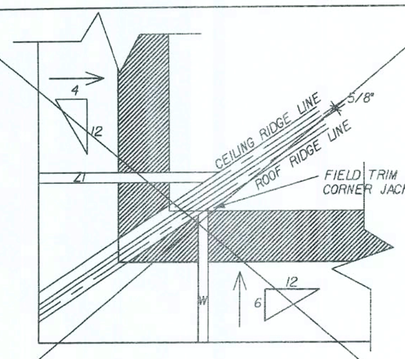
SD-W

PLOT DATE: 15 JAN 2008 15:45:13 p:\houses_05\george_washington\dft\std_windows.sdw

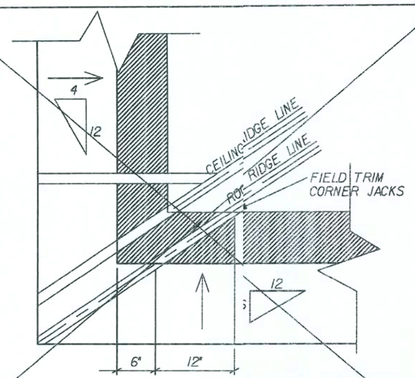
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



TRUSS PLACEMENT CORNER DETAIL B

NOT USED

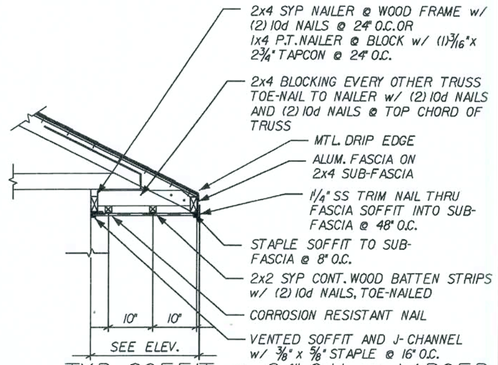
SCALE: N.T.S.



TRUSS PLACEMENT CORNER DETAIL A

NOT USED

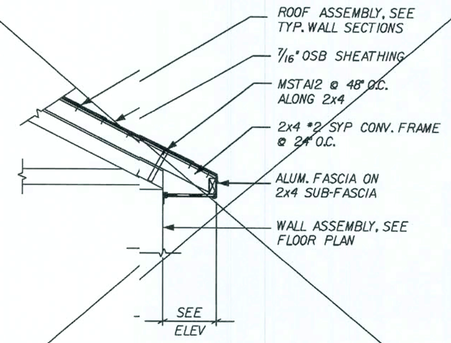
SCALE: N.T.S.



TYP. SOFFIT @ 24" O.H. or LARGER

REVISED 01-11-05

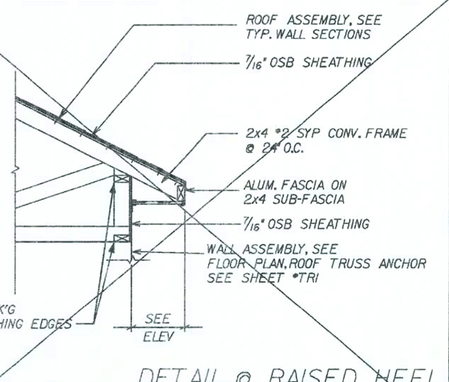
SCALE: 1/2" = 1'-0"



CONV. FRAMED HIP ROOF

NOT USED

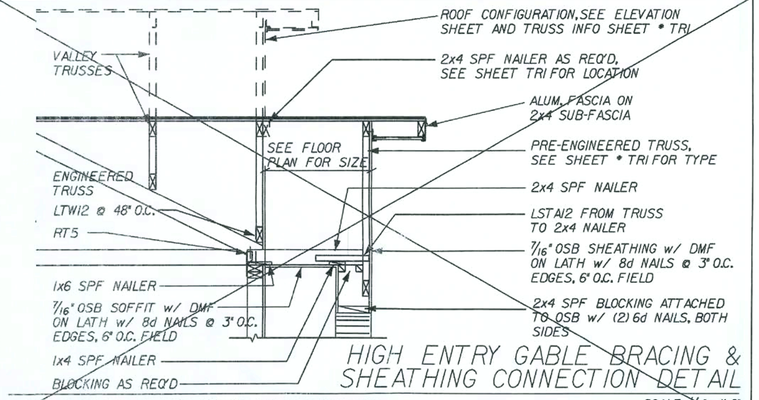
SCALE: 1/2" = 1'-0"



DETAIL @ RAISED HEEL

NOT USED

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

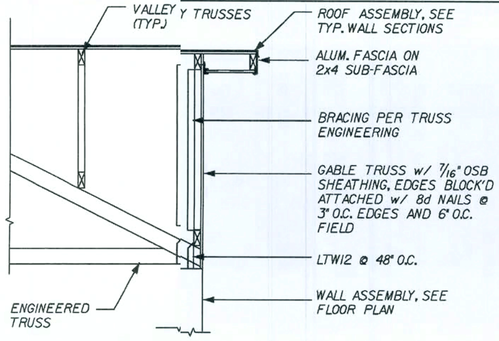


HIGH ENTRY GABLE BRACING & SHEATHING CONNECTION DETAIL

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS, NO X-BRACING NEEDED.

NOT USED

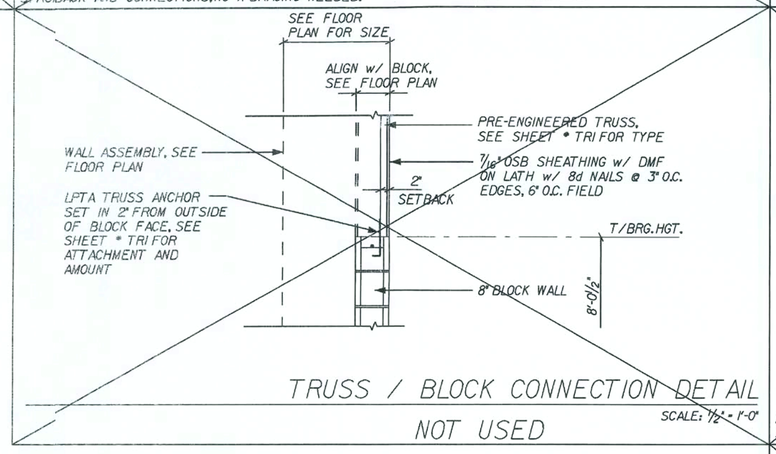
SCALE: 1/2" = 1'-0"



FALSE GABLE BRACING & SHEATHING CONNECTION DETAIL

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS, NO X-BRACING NEEDED.

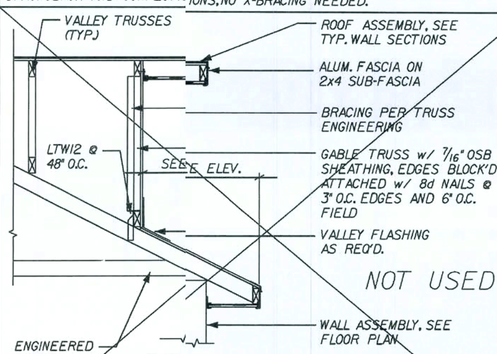
SCALE: 1/2" = 1'-0"



TRUSS / BLOCK CONNECTION DETAIL

NOT USED

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

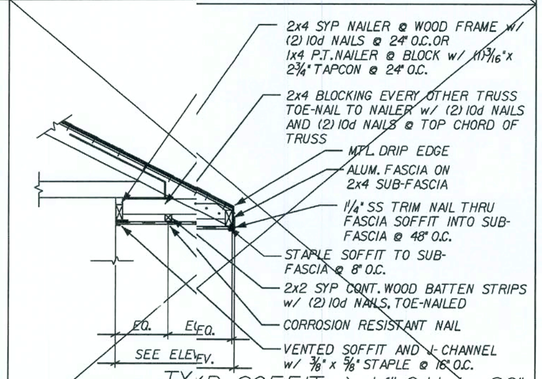


REVERSE GABLE BRACING & SHEATHING CONNECTION DETAIL

NOT USED

NOTE: GABLE BRACED BY ROOF AND/OR CEILING DIAPHRAGM STRONGBACK AND CONNECTIONS, NO X-BRACING NEEDED.

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



TYP. SOFFIT > 14" O.H. TO 20"

REVISED 12-20-06

NOT USED

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

REVISIONS :

Maronda Homes

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

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

ROOF STANDARD DETAILS

GEO. WASHINGTON

GARAGE:

DRAWN BY:

RELEASE DATE: 07/14/04

15:45:14

PLOT DATE: 15 JAN 2008

pw:\houses_05\george_washington\dtl\std_roof.sdr

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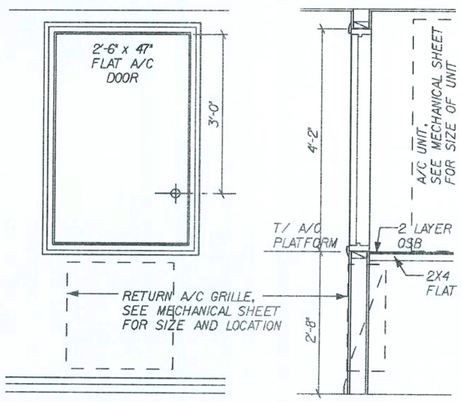
Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

SHEET:

SD-R

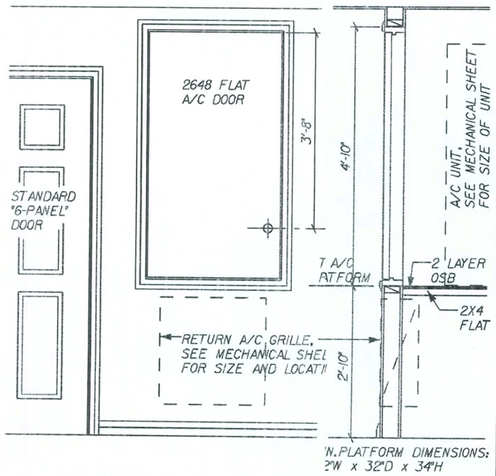
FLORIDA BUILDING CODE 2004 : RESIDENTIAL



ELEVATION SECTION

7'-0" CEIL. ENCLOSED A/C PLATFORM

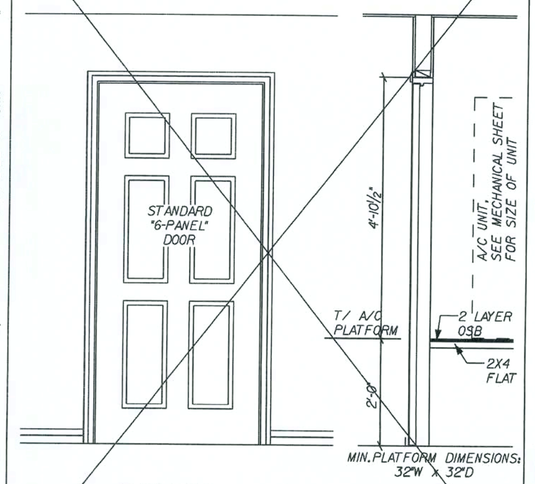
SCALE: 1/2" = 1'-0"



ELEVATION SECTION

ENCLOSED A.C PLATFORM

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

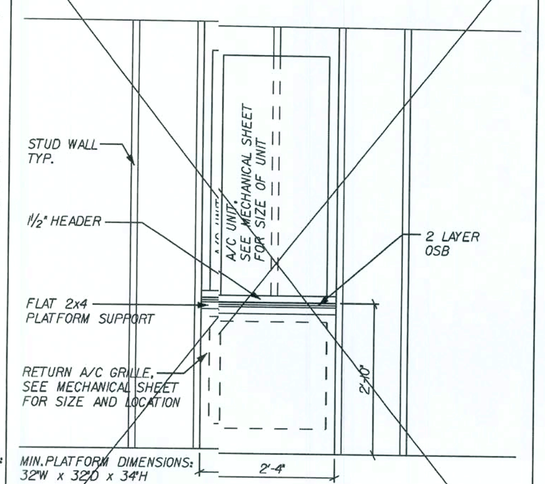


ELEVATION SECTION

FULL DOOR ENCLOSED A/C PLATFORM

NOT USED

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

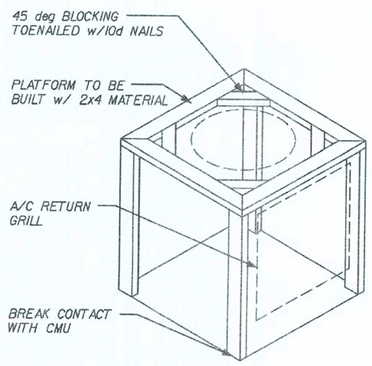


ELEVATION

OPEN A/C PLATFORM

NOT USED

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



A/C PLATFORM FRAMING

REVISED 01-24-05

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

REVISIONS :

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

STANDARD PLATFORM DETAILS

AIR-HEAT DTLS

DRAWN BY:

GARAGE:

RELEASE DATE:

D:\f\houses_05\george_washington\dt\std_heating.sdh

15:45:14

PLOT DATE: 15 JAN 2008

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

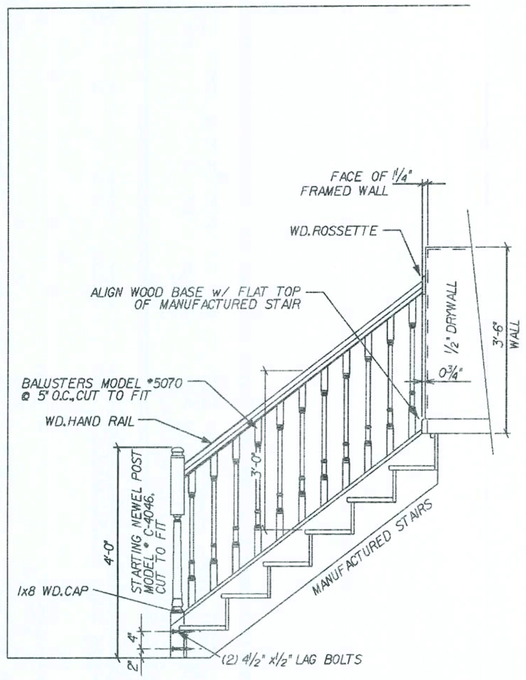
Elmer Bergman, P.E.
License No. 50158

JUL 28 2008

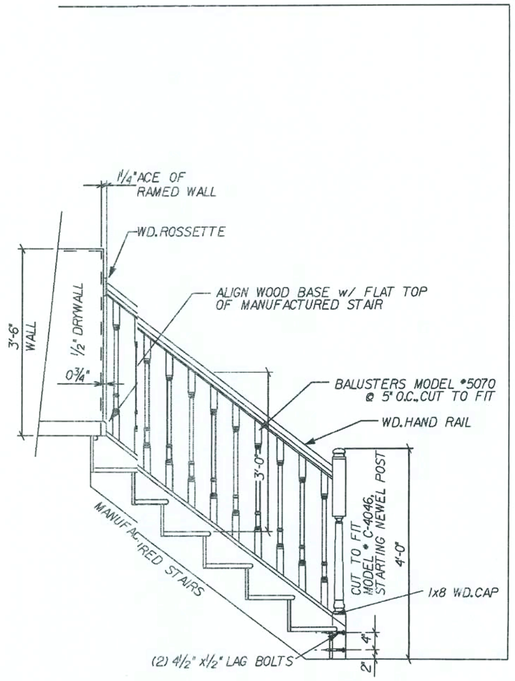
SHEET:

SD-H

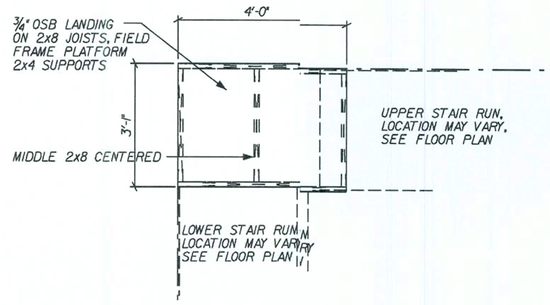
RG OPTIONAL WOOD RAILING AND SPINDELS IN LIEU OF 42" DRYWALL SLOPED WALL



STAIR @ TOP OF LANDING [LEFT]

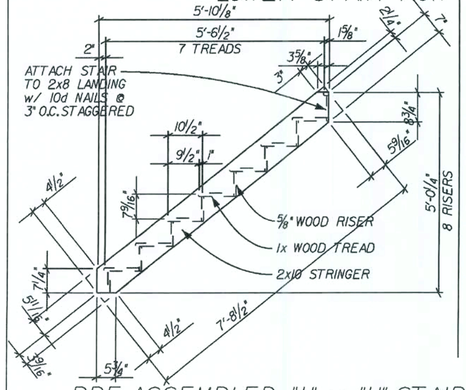


STAIR @ TOP OF LANDING [RIGHT]



STAIR LANDING

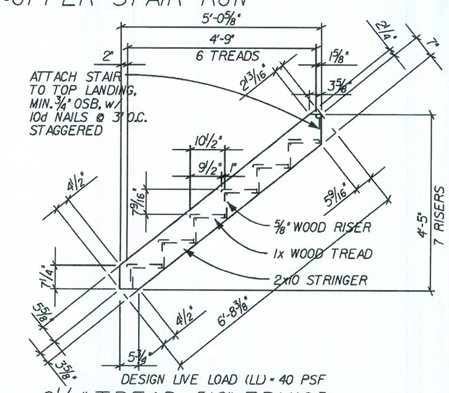
LOWER STAIR RUN



PRE-ASSEMBLED "L" or "U" STAIR

REVISED 02-14-05

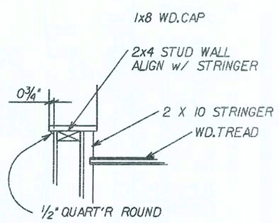
UPPER STAIR RUN



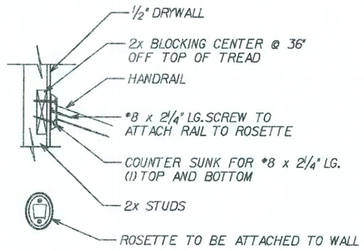
DESIGN LIVE LOAD (LL) = 40 PSF

: 9½" TREAD [16" FRM'G]

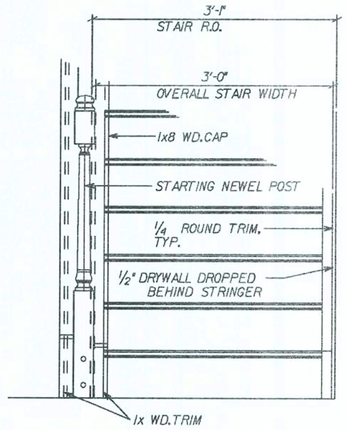
SCALE: ⅜" = 1'-0"

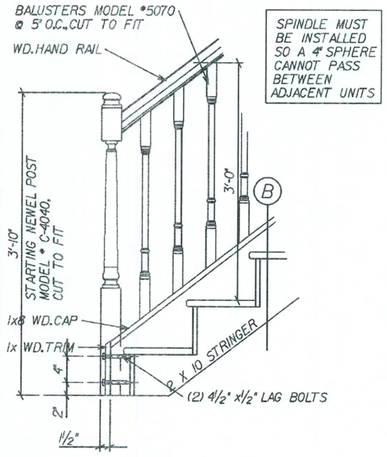


SECTION B



RAIL ATTACHMENT TO WALL

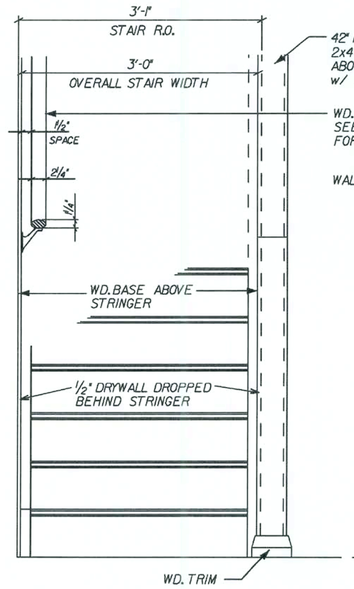


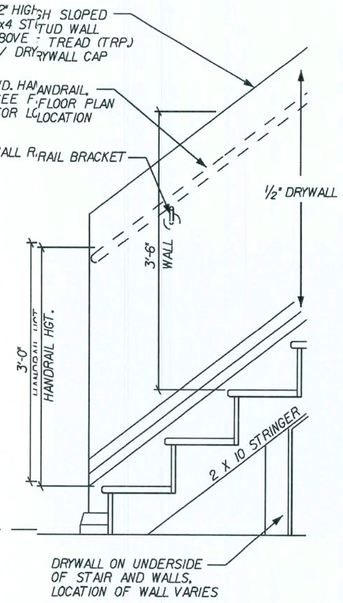


OPTIONAL OPEN RAIL STAIR DETAILS

REVISED 01-25-05

SCALE: ¾" = 1'-0"





NOTE:
SECTION R311.5.6.2 HANDRAIL ENDS SHALL BE RETURNED TO WALL

REVISED 11-12-07
ADDED WOOD BASE ABOVE STRINGER

STANDARD STAIR w/ 42" HIGH WALL

SCALE: ¾" = 1'-0"

REVISIONS :
02-13-06 REV. WOOD TRUSSES

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.

16" FRM'G 15 RISER : "L" STAIR

STAIR DETAILS

GARAGE:
DRAWN BY:
RELEASE DATE:

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

Elmer Bergman, P.E.
License No. 50158

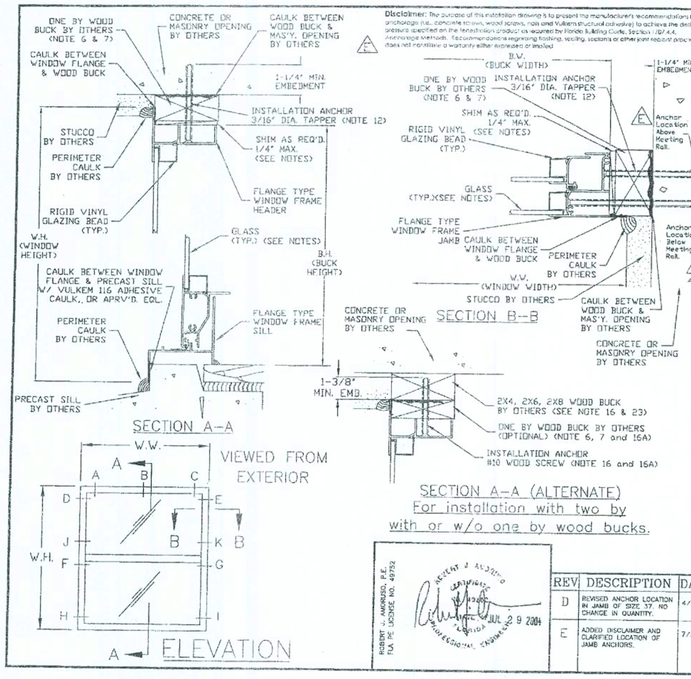
JUL 28 2008

SHEET:
STR

PLOT DATE: 15 JAN 2008 15:45:15

p:\fl\houses_05\george_washington\dtl\5r-113_251.str

FLORIDA BUILDING CODE 2004 : RESIDENTIAL



Disclaimer: The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, nails and Vulkem structural adhesive) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4. Anchorage Methods. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

IMPORTANT IORMATION & GENERAL NOTES

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

GENERAL INSTALL/ON INSTRUCTIONS

1) SHIM AS REQ'D. EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM ICK TO BE 1/4".
2) USE SILICONIZE CRYLIC CAULK BEHIND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTAED TO THE SUBSTRATE WITH VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL. PLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAL AT FRAME S MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATION
3) USE SILICONIZE CRYLIC CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGE A TO SEAL HEADS OF INSTALLATION FASTENERS.
4) FLORIDA EXTRUES 1000 SERIES SINGLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLIDA EXTRUDERS 1500 AND 2000 SERIES SINGLE HUNGS.
5) WINDOW FRAMETERIAL: ALUMINUM ALLOY 6063.

ANCHOR INSTALLAIN INSTRUCTIONS

GENERAL:

6) NAIL ATTACHMEIOF NON-STRUCTURAL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER.SE A HARDENED "T-NAIL" WITH A 0.097" DIAMETER AND 1 3/8" LENGTH (5/8" EMBEENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 1/2" LENGTH'4" EMBEDMENT) OR EQUIVALENT. FOR ALTERNATE SECTION A-A/B-B, USE A 0.11DIAMETER COMMON WIRE NAIL WITH A 3/4" EMBEDMENT OR EQUIVALENT FOR NING NON-STRUCTURAL ONE BY BUCK INTO A TWO BY STRUCTURAL BUCK.
7) APPLIES TO ALL N-STRUCTURAL BUCKS LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMID NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREATER THAN 1" NOMIMAL (3/4" TIK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUFFINT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 6.
8) ALL INSTALLATIONCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS OR HAVICORROSION RESISTANT COATING APPLIED SUITABLE FOR THE ENVIRONMENT AND/ FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVAVE TREATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR REMMENDATION OF ANCHORS COMPATIBLE WITH THE PRESSURE-PRESERVAVE TREATMENT PROCESS USED.
9) ALL FIELD SUPPLIHOLES IN THE FRAME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
10) WOOD SCREWS ALL MEET ANSI B18.6.1 DIMENSIONAL REQUIREMENTS.
11) IF WOOD TENDS SPLIT, PRE-BORE HOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOL #10 WOOD SCREW - 9/64" DIA. PILOT HOLE (NATIONAL DESIGN SPECIFICATI FOR WOOD CONSTRUCTION).

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

ROBERT J. AMORUSO, P.E.
FLA PE LICENSE NO. 49752
JUL 2 9 2004

REV	DESCRIPTION	DATE	INI
D	REVISED ANCHOR LOCATION IN JAMB OF SIZE 37. NO CHANGE IN QUANTITY.	4/23/04	RJA
E	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA

FLOFDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA
CERTIFICATE AUTHORIZATION NO. 9235
TITLE: INALLATION DETAIL
SGL. HU FLANGE WINDOWS - SERIES 1000, 1500 & 2000
DRAWN BBB
APPROVED BY:RJA
DATE: 7/?/04
SCALE: NTS
DWG.: FLEX0016, SHT 1 OF 2

TAPPER LOCATION CHART

CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD		LOCATIONS IN JAMB	
		30PSF TO 40PSF	41PSF TO 70PSF	30PSF TO 40PSF	41PSF TO 70PSF
12	18 1/8 X 25	B	B	F,G	F,G
13	18 1/8 X 37 3/8	B	B	F,G	F,G
14	18 1/8 X 49 5/8	B	B	F,G	F,G
145	18 1/8 X 55 1/4	B	B	F,G	F,G
15	18 1/8 X 62	B	B	F,G	F,G
16	18 1/8 X 71	B	B	F,G	F,G,H,I
17	18 1/8 X 83	B	B	F,G	F,G,J,K
1H2	25 1/2 X 25	B	B	F,G	F,G
1H3	25 1/2 X 37 3/8	B	B	F,G	F,G
1H4	25 1/2 X 49 5/8	B	B	F,G	F,G,H,I
1H45	25 1/2 X 55 1/4	B	B	F,G	F,G,H,I
1H5	25 1/2 X 62	B	B	F,G	F,G,H,I
1H6	25 1/2 X 71	B	B	F,G	F,G,H,I
1H7	25 1/2 X 83	B	B	F,G,J,K	F,G,J,K
30 1/2 X 26	29 1/2 X 25	B	B	F,G	F,G
30 1/2 X 38 3/8	29 1/2 X 37 3/8	B	B	F,G	F,G
30 1/2 X 50 5/8	29 1/2 X 49 5/8	B	B	F,G	F,G,H,I
30 1/2 X 56 1/4	29 1/2 X 55 1/4	B	B	F,G	F,G,H,I
30 1/2 X 63	29 1/2 X 62	B	B	F,G	F,G,H,I
30 1/2 X 72	29 1/2 X 71	B	B	F,G,H,I	F,G,H,I
30 1/2 X 84	29 1/2 X 83	B	B	F,G,J,K	F,G,J,K
22	36 x 25	B	B	F,G	F,G
23	36 x 37 3/8	B	B	F,G	F,G
24	36 x 49 5/8	B	B	F,G	F,G,H,I
245	36 x 55 1/4	B	B	F,G	F,G,H,I
25	36 x 62	B	B	F,G,H,I	F,G,H,I
26	36 x 71	B	B	F,G,H,I	D,E,F,G,H,I
27	36 x 83	B	B	F,G,J,K	F,G,H,I,J,K
42 x 26	41 x 25	B	B	F,G	F,G
42 x 38 3/8	41 x 37 3/8	B	B	F,G	F,G,H,I
42 x 50 5/8	41 x 49 5/8	B	B	F,G	F,G,H,I
42 x 56 1/4	41 x 55 1/4	B	B	F,G,H,I	F,G,H,I
42 x 63	41 x 62	B	B	F,G,H,I	D,E,F,G,H,I
42 x 72	41 x 71	B	B	F,G,H,I	D,E,F,G,H,I
42 x 84	41 x 83	B	B	F,G,J,K	F,G,H,I,J,K
48 x 26	47 x 25	B	A,C	F,G	F,G
48 x 38 3/8	47 x 37 3/8	B	A,C	F,G	F,G,H,I
48 x 50 5/8	47 x 49 5/8	B	A,C	F,G	F,G,H,I
48 x 56 1/4	47 x 55 1/4	B	A,C	F,G,H,I	F,G,H,I
48 x 63	47 x 62	B	A,C	F,G,H,I	D,E,F,G,H,I
48 x 72	47 x 71	B	A,C	F,G,H,I	D,E,F,G,H,I
48 x 84	47 x 83	B	A,C	F,G,J,K	D,E,F,G,H,I,J,K
32	52 1/8 X 25	B	A,C	F,G	F,G
33	52 1/8 X 37 3/8	B	A,C	F,G	F,G,H,I
34	52 1/8 X 49 5/8	B	A,C	F,G,H,I	F,G,H,I
345	52 1/8 X 55 1/4	B	A,C	F,G,H,I	D,E,F,G,H,I
35	52 1/8 X 62	B	A,C	F,G,H,I	D,E,F,G,H,I
36	52 1/8 X 71	B	A,C	F,G,H,I	D,E,F,G,H,I
* 37	52 1/8 X 83	B	A,C	F,G,J,K	D,E,F,G,H,I,J,K

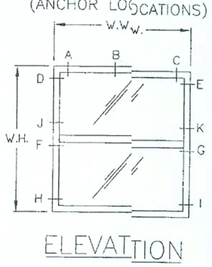
* 37 SIZE NOT AVAILABLE IN 1000 OR 1500 SERIES.

IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

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

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 INSTALLATION ANCHOR 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 ELCO 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 84:
a) LIMIT TO 65 PSF, OR
b) 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.



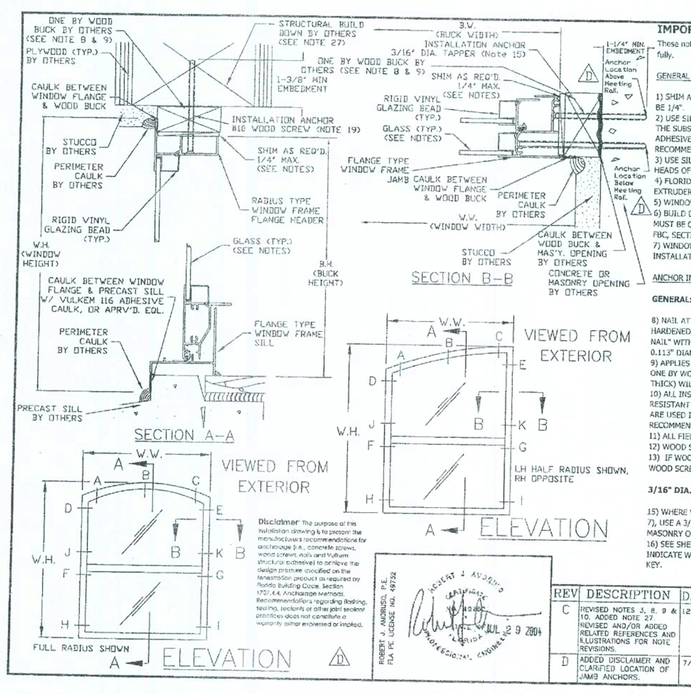
#10 WOOD SCREW (WITH STRUCTURAL TWO BY WOOD BUCK AND OPTIONAL ONE BY WOOD BUCK - SECTION A-A ALTERNATE ILLUSTRATES THIS OPTION, SIMILAR FOR SECTION B-B):

16) WHERE WINDOW IS INSTALLED IN MASONRY OPENING WITH A STRUCTUAL 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) COMPLIES 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 WOOD OR 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 B C D E
FLORIDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235
TITLE: INSTALLATION DETAIL
SGL. HUNG FLANGE WINDOWS - SERIES 1000, 1500 & 2000
DRAWN BY: RJA
APPROVED BY:RJA
DATE: 7/29/04
SCALE: NTS
DWG.:FLEX0016, SHT 2 OF 2



Disclaimer The purpose of this installation drawing is to present the manufacturer's recommendations for anchorage (i.e., concrete screws, wood screws, nails and Vulkem structural adhesive) to achieve the design pressure specified on the fenestration product as required by Florida Building Code, Section 1707.4.4. Anchorage Methods. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

IMPORTANT INFORMATI & GENERAL NOTES

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

GENERAL INSTALLATION INSTRUCTIOI

1) SHIM AS REQ'D. AT EACH INSTALLA'N ANCHOR WITH LOAD BEARING SHIM. MAX. ALLOWABLE SHIM STACK TO BE 1/4".
2) USE SILICONIZED ACRYLIC CAULK BND WINDOW FLANGE AT HEAD & JAMBS. SILL MUST BE ATTACHED TO THE SUBSTRATE WITH VULKEM 116 AISIVE CAULK OR APPROVED EQUAL. APPLICATION OF VULKEM 116 ADHESIVE CAULK OR APPROVED EQUAT FRAME SILL MUST COMPLY WITH SEALANT MANUFACTURER'S RECOMMENDATIONS.
3) USE SILICONIZED ACRYLIC CAULK FPERIMETER SEAL AROUND EXTERIOR OF WINDOW FLANGE AND TO SEAL HEADS OF INSTALLATION FASTENERS.
4) FLORIDA EXTRUDERS 1000 SERIES SLE HUNG IS SHOWN. THIS PRINT ALSO APPLIES TO THE FLORIDA EXTRUDERS 1500 AND 2000 SERIES SIE HUNGS.
5) WINDOW FRAME MATERIAL: ALUMIN ALLOY 6063.
6) BUILD DOWN AROUND CURVED PORN OF WINDOW FRAME TO BE ENGINEERED BY OTHERS. BUILD DOWN MUST BE OF SUFFICIENT STRENGTH TOEQUATELY TRANSFER LOAD FROM WINDOW TO THE STRUCTURE PER FBC, SECTION 1707.4.4.
7) WINDOW UNIT CAN BE MULLED TO IER UNITS USING ALUMINUM TUBE MULLION. SEE MULLION INSTALLATION SHEETS FOR REQUIREM'S.

ANCHOR INSTALLATION INSTRUCTIONS

GENERAL:

8) NAIL ATTACHMENT OF NON-STRUCTIL ONE BY BUCK IS 4" FROM EACH CORNER AND 8" ON CENTER. USE A HARDENED "T-NAIL" WITH A 0.097" DIATER AND 1 3/8" LENGTH (5/8" EMBEDMENT), A HARDENED "MASONRY NAIL" WITH A 0.148" DIAMETER AND 1 ' LENGTH (3/4" EMBEDMENT) OR EQUIVALENT FOR THE JAMBS. USE A 0.113" DIAMETER COMMON WIRE NAIL 'H A 3/4" EMBEDMENT OR EQUIVALENT FOR THE HEAD.
9) APPLIES TO ALL NON-STRUCTURAL B'S LESS THAN 1 1/2" THICKNESS. NOT INTENDED TO LIMIT TO NOMINAL ONE BY WOOD BUCK ONLY. BUCKS GREAR THAN 1" NOMIMAL (3/4" THICK) AND LESS THAN 2" NOMINAL (1 1/2" THICK) WILL REQUIRE NAIL LENGTH SUCIENT TO MEET EMBEDMENT REQUIREMENTS OF NOTE 8.
10) ALL INSTALLATION ANCHORS MUST MADE OF CORROSION RESISTANT MATERIALS OR HAVE A CORROSION RESISTANT COATING APPLIED SUITABLBR THE ENVIRONMENT AND/OR FRAMING MATERIAL. WHERE ANCHORS ARE USED IN PRESSURE-PRESERVATIVEATED WOOD, THE WOOD SUPPLIER SHALL BE CONSULTED FOR RECOMMENDATION OF ANCHORS COMPALE WITH THE PRESSURE-PRESERVATIVE TREATMENT PROCESS USED.
11) ALL FIELD SUPPLIED HOLES IN THE ME (IF REQUIRED) WILL BE 3/16" IN DIAMETER.
12) WOOD SCREWS SHALL MEET ANSI B.1 DIMENSIONAL REQUIREMENTS.
13) IF WOOD TENDS TO SPLIT, PRE-BOHOLES AS FOLLOWS: #8 WOOD SCREW - 1/8" DIA. PILOT HOLE & #10 WOOD SCREW - 9/64" DIA. PILOT HOLE TIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION).

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

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

[SEE SHEET 2 FOR CONTINUATION OF NOTES]

ROBERT J. AMORUSO, P.E.
FLA PE LICENSE NO. 49752
JUL 2 9 2004

REV	DESCRIPTION	DATE	INI
C	REVISED NOTES 3, 8, 9 & 10. ADDED NOTE 27. REVISED AND/OR ADDED RELATED REFERENCES AND ILLUSTRATIONS FOR NOTE REVISIONS.	12/19/03	RJA
D	ADDED DISCLAIMER AND CLARIFIED LOCATION OF JAMB ANCHORS.	7/29/04	RJA

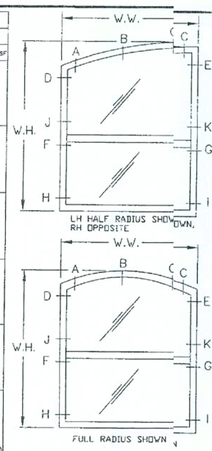
FLORDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA
CERTIFICATE AUTHORIZATION NO. 9235
TITLE: INSLLATION DETAIL SINGLE HUNG RADIUS HEAD
FLANGE FRAME BUILD DOWN - SERIES 1000, 1500 & 2000
DRAWN BJBH
APPROVED BY: RJA
DATE: 7/294
SCALE: NTS
DWG.: FLEX0040 SHEET 1 OF 2

ANCHOR LOCATION CHART (SEE NOTES BELOW)

CALL SIZE	BUCK SIZE	LOCATIONS IN HEAD (see note 1 below)		LOCATIONS IN JAMB (see notes 2 & 3 below)	
		30PSF TO 40PSF	41PSF TO 70PSF	30PSF TO 40PSF	41PSF TO 70PSF
12	18 1/8 X 27 5/16	A,C	A,C	F,G	F,G
13	18 1/8 X 39 11/16	A,C	A,C	F,G	F,G
14	18 1/8 X 51 15/16	A,C	A,C	F,G	F,G
145	18 1/8 X 57 19/32	A,C	A,C	F,G	F,G (a)
15	18 1/8 X 64 5/16	A,C	A,C	F,G	F,G (a)
16	18 1/8 X 73 5/16	A,C	A,C	F,G (a)	F,G,H,I
1H2	25 1/2 X 28 9/16	A,C	A,C	F,G	F,G
1H3	25 1/2 X 40 15/16	A,C	A,C	F,G	F,G
1H4	25 1/2 X 53 3/16	A,C	A,C	F,G	F,G,H,I
1H45	25 1/2 X 58 13/16	A,C	A,C	F,G	F,G,H,I
1H5	25 1/2 X 65 9/16	A,C	A,C	F,G	F,G,H,I
1H6	25 1/2 X 74 9/16	A,C	A,C	F,G	F,G,H,I
30 1/2 X 30 7/32	29 1/2 X 29 7/32	A,C	A,C	F,G	F,G
30 1/2 X 42 19/32	29 1/2 X 41 19/32	A,C	A,C	F,G	F,G
30 1/2 X 54 27/32	29 1/2 X 53 27/32	A,C	A,C	F,G	F,G,H,I
30 1/2 X 60 15/32	29 1/2 X 59 15/32	A,C	A,C	F,G	F,G,H,I
30 1/2 X 67 7/32	29 1/2 X 66 7/32	A,C	A,C	F,G (a)	F,G,H,I
30 1/2 X 76 7/32	29 1/2 X 75 7/32	A,C	A,C	F,G,H,I	F,G,H,I (b)
22	36 x 30 5/16	A,B,C	A,B,C	F,G	F,G
23	36 x 42 11/16	A,B,C	A,B,C	F,G	F,G (a)
24	36 x 54 15/16	A,B,C	A,B,C	F,G	F,G,H,I
245	36 x 60 9/16	A,B,C	A,B,C	F,G (a)	F,G,H,I
25	36 x 67 5/16	A,B,C	A,B,C	F,G,H,I	F,G,H,I (b)
26	36 x 76 5/16	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
42 x 32 5/32	41 x 31 5/32	A,B,C	A,B,C	F,G	F,G
42 x 44 17/32	41 x 43 17/32	A,B,C	A,B,C	F,G	F,G,H,I
42 x 56 25/32	41 x 55 25/32	A,B,C	A,B,C	F,G	F,G,H,I
42 x 62 3/8	41 x 61 3/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I
42 x 69 5/32	41 x 68 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
42 x 78 5/32	41 x 77 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
48 x 33 5/32	47 x 32 5/32	A,B,C	A,B,C	F,G	F,G
48 x 45 17/32	47 x 44 17/32	A,B,C	A,B,C	F,G	F,G,H,I
48 x 57 25/32	47 x 56 25/32	A,B,C	A,B,C	F,G (a)	F,G,H,I
48 x 63 3/8	47 x 62 3/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I (b)
48 x 70 5/32	47 x 69 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
48 x 79 5/32	47 x 78 5/32	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I (c)
32	52 1/8 X 33	A,B,C	A,B,C	F,G	F,G
33	52 1/8 X 45 3/8	A,B,C	A,B,C	F,G	F,G,H,I
34	52 1/8 X 57 5/8	A,B,C	A,B,C	F,G,H,I	F,G,H,I
345	52 1/8 X 63 1/4	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
35	52 1/8 X 70	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I
36	52 1/8 X 79	A,B,C	A,B,C	F,G,H,I	D,E,F,G,H,I (c)

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. Where indicated by (a), (b) or (c) above, additional #10 Wood Screws shall be added at the following locations.
   (a) One additional anchor required in each jamb at locations "H" and "I".
   (b) One additional anchor required in each jamb at locations "D" and "E".
   (c) One additional anchor required in each jamb at locations "J" and "K".
4. Dimensions given are for half radius head units, full radius will be shorter.



IMPORTANT INFORMATION & GENERAL NOTES (cont.)

ANCHOR INSTALLATION INSTRUCTIONS (cont.)

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

17) TAPPER (RAWL) CONCRETE SCREW MANUFACTURED BY POWERS FASTENING, INC. WILL BE USED. TAPCON (by ELCO 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 STRUCTUAL 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) COMPLIES 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 WOOD OR APPROVED FRAMING MEMBERS, MARCH 1, 2002.
27) STRUCTURAL BUILD-DOWN AT THE HEAD TO BE DESIGN TO TRANSFER THE LOAD TO THE MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE PER FBC, SECTION 1707.4.4.2 OR TO THE WOOD OR APPROVED FRAMING MEMBERS PER FBC, SECTION 1707.4.4.3AND THE ENGINEER OF RECORD'S DETAILS.

REV B C D
FLORIDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA
CERTIFICATE OF AUTHORIZATION NO. 9235
TITLE: INSTALLATION DETAIL SINGLE HUNG RADIUS HEAD
FLANGE W/FRAME BUILD DOWN - SERIES 1000, 1500 & 2000
DRAWN BY: RJA
APPROVED BY: RJA
DATE: 7/29/04
SCALE: NTS
DWG.: FLEX0040 SHEET 2 OF 2

REVISIONS :

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

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
RELEASE DATE:

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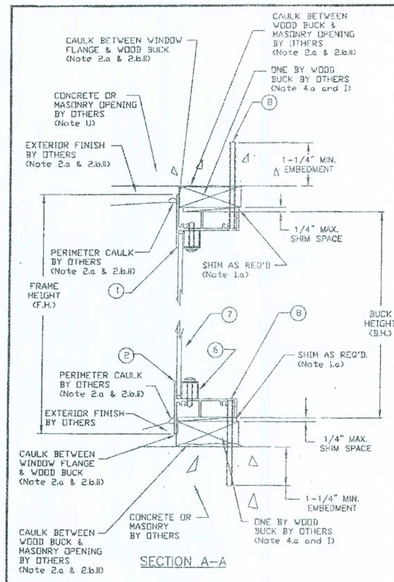
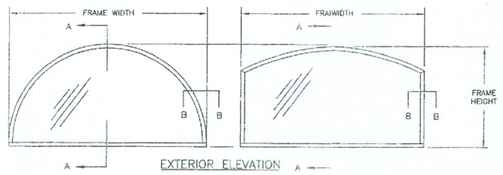
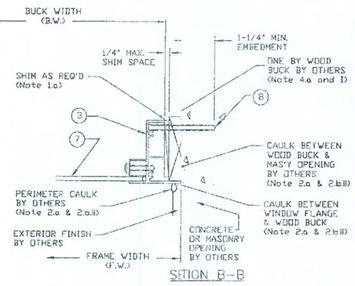
SHEET:
1 of 3



SECTION A–A



EXTERIOR ELEVATION



SETION B–B

GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.

(A) Milestone Series 1000 Designer Fixed Aluminum Window is shown. Also applicable to Series 1750 and 2000 Designer Fixed Aluminum Windows.

(B) Drawing applicable to Non-Impact Resistant glazed windows.

(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(D) For Fastener Location & Quantities see Sheet 2 of this drawing. See Note (H) regarding deviations.

(E) Concrete screw edge distance measured from edge of concrete/masonry/block to centerline of concrete screw must meet or exceed 2 1/4". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(G) All field supplied holes in the frame (if required) will be 3/16" in diameter for 3/16" concrete screws and #10 wood screws.

(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

PARTS LIST

1. Head - Flange Frame
2. Sill - Flange Frame
3. Jamb - Flange Frame
4. Not Used
5. Not Used
6. Glazing Bead - Rigid Vinyl
7. Glazing - See Note (B) and (C)
8. 3/16" Dia. Flat Head Concrete Scr with minimum working load in shear of 6 lbs at 1 1/4" embedment. See Note (J) on drawing and Note 7 on Drawing FLEX2011
9. #10 Wood or Tapping Screw with minimum embedment of 1-3/8" into "StructuTwo By Buck or Framing". See Note (L) on drawing and Note 8 on Drawing FLEX2011

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-323-3307 (fax)
www.floridaextruders.com
Florida COA No. 9235

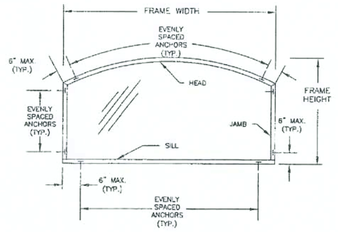
TITLE: Milestone Series 1000, 1750 and 2000 Non-Impact Resistant Aluminum Flange Frame Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Header

REVISIONS			
No.	Date	By	Description
1	12/27/05	RJA	Supersedes FLEX2011

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
FL License No. 49752

Drawing No. FLEX28110
Sheet 1 of 2



EXTERIOR ELEVATION

FASTENER SPACING ILLUSTRATION
EYEBROW ARCH DESIGNER WINDOW SHOWN AS EXAMPLE

EXAMPLE:

HEAD (CURVED PORTION) SECURED TO CONCRETE HEADER, JAMBS OR SILL SECURED TO CMU AND CAST–SILL RESPECTIVELY WITH ONE BY BUCK

USE 3/16" DIA. CONCRETE SCREWS AT 24" O.C. SPACING BETWEEN ANCHORS AND SPACED 6" MAXIMUM FROM CORNERS.

– or –

HEAD (CURVED PORTION), JAMBS OR SILL SECURED TO STRUCTURAL TWO BY BUCK (ATTACHED TO CONCRETE HEADER, JAMBS OR SILL)

USE #10 WOOD SCREWS AT 12" O.C. SPACING BETWEEN FASTENERS AND SPACED 6" MAXIMUM FROM CORNERS. (NOTE: 12" SPACING FOR EXAMPLE EYEBROW APPLICATION. OTHER APPLICATIONS MAY REQUIRE 10" SPACING PER NOTE (P))

FASTENER INSTALLATION INSTRUCTIONS - FLEX28110

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

(I) Nail attachment of non-structural one by buck per Note 4.a.ii.2 Drawing FLEX20100.
(J) Where window is installed in an opening with a non-structural one by wood buck for the head, sill and 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.
(K) Fastener spacing shall be per Notes (O), (P), (Q) and (R) below.

#10 WOOD SCREW WITH STRUCTURAL TWO BY WOOD BUCK AND CONCRETE BUILD-DOWN. USED WHEN TWO BY BUCK EMPLOYED IN LIEU OF ONE BY BUCK (THIS CONFIGURATION NOT SHOWN):

(L) Where window is installed in an opening with a structural two by wood buck for the head, sill and jambs, 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.
(M) Wood screws shall not be used to fasten assembly into the end grain of wood.
(N) Fastener spacing shall be per Notes (P), (Q) and (R) below.

FASTENER SPACING (See Elevation View on this Sheet):

(O) Concrete screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner anchors but not exceeding 24" o.c. spacing in head, sill or jambs.

(P) #10 wood screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner anchors but not exceeding 12" o.c. spacing in head, sill or jambs for the following configurations:
  - o eyebrow
  - o half-circle arch
  - o half-eyebrow
  - o octagon
  - o fan
  - o pentoid
  - o full-circle
  - o half-circle
  - o triangle
  - o trapezoid
  - o oval
- evenly spaced between corner anchors but not exceeding 10" o.c. spacing in head, sill or jambs for the following configurations:
  - o quarter-circle
  - o quarter-circle arch
  - o half-fan

(Q) Spacing in Note (O) and (P) above based on the use of either a concrete screw or #10 wood screw as required for securing the window frame into the substrate as follows (see illustration this sheet):
- Concrete screw into concrete or masonry using a non-structural One By Wood Buck.
- #10 wood screw into a Two By Wood Buck structurally attached to concrete or masonry substrate.

(R) If configuration requires combination of concrete screw and #10 wood screw in either a head, sill or jamb, the lower of the maximum spacings above shall be used.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(S) Installations depicted in these instructions acceptable for design pressures to 70 PSF. Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than that shown in the fastener capacity table and shall be determined in accordance with Note 13 of FLEX20100.
(T) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(U) Concrete Header at head and/or two by wood buck and/or framing at the head, sill 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.
(V) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
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www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 1000, 1750 and 2000 Non-Impact Resistant Aluminum Flange Frame Designer Fixed Window Installation Drawing for Masonry Substrate & Concrete Header

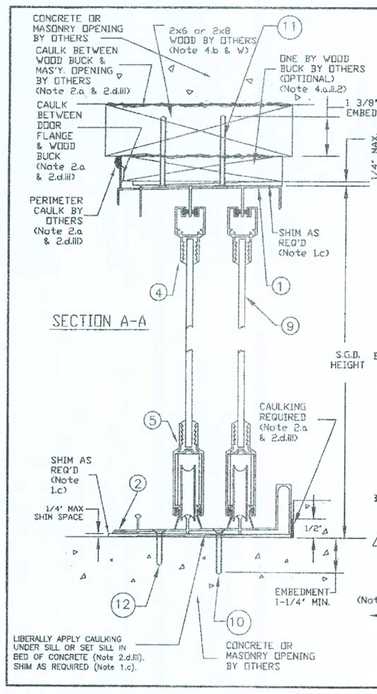
REVISIONS			
No.	Date	By	Description
1	12/27/05	RJA	Supersedes FLEX2011

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX28110
Sheet 2 of 2

REVISIONS :

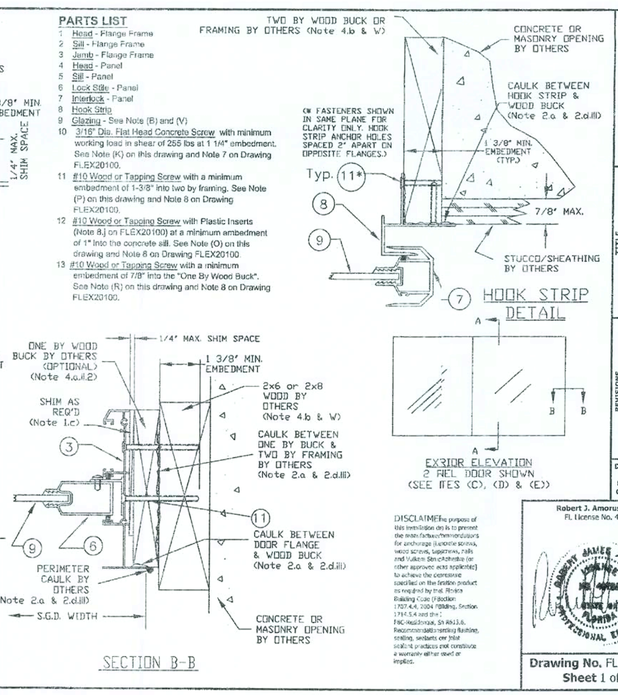
Maronda Homes
4005 MARONDA WAY SANFORD, FLORIDA
(407) 321-0064



SECTION A–A

PARTS LIST

1. Head - Flange Frame
2. Sill - Flange Frame
3. Jamb - Flange Frame
4. Head - Panel
5. Sill - Panel
6. Lock Stile - Panel
7. Interlock - Panel
8. Hook Strip
9. Glazing - See Note (B) and (V)
10. 3/16" Dia. Flat Head Concrete Screw with minimum working load in shear of 255 lbs at 1 1/4" embedment. See Note (K) on this drawing and Note 7 on Drawing FLEX20100.
11. #10 Wood or Tapping Screw with a minimum embedment of 1-3/8" into two by framing. See Note (P) on this drawing and Note 8 on Drawing FLEX20100.
12. #10 Wood or Tapping Screw with Plastic Inserts (Note 8.j on FLEX20100) at a minimum embedment of 1" into the concrete sill. See Note (O) on this drawing and Note 8 on Drawing FLEX20100.
13. #10 Wood or Tapping Screw with a minimum embedment of 7/8" into the "One By Wood Buck". See Note (R) on this drawing and Note 8 on Drawing FLEX20100.



SECTION B–B

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-323-3307 (fax)
www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Flange Frame One Sliding Door Installation Drawing for Masonry Substrate w/Concrete Screws & Wood Substrate w/#10 Wood Screws

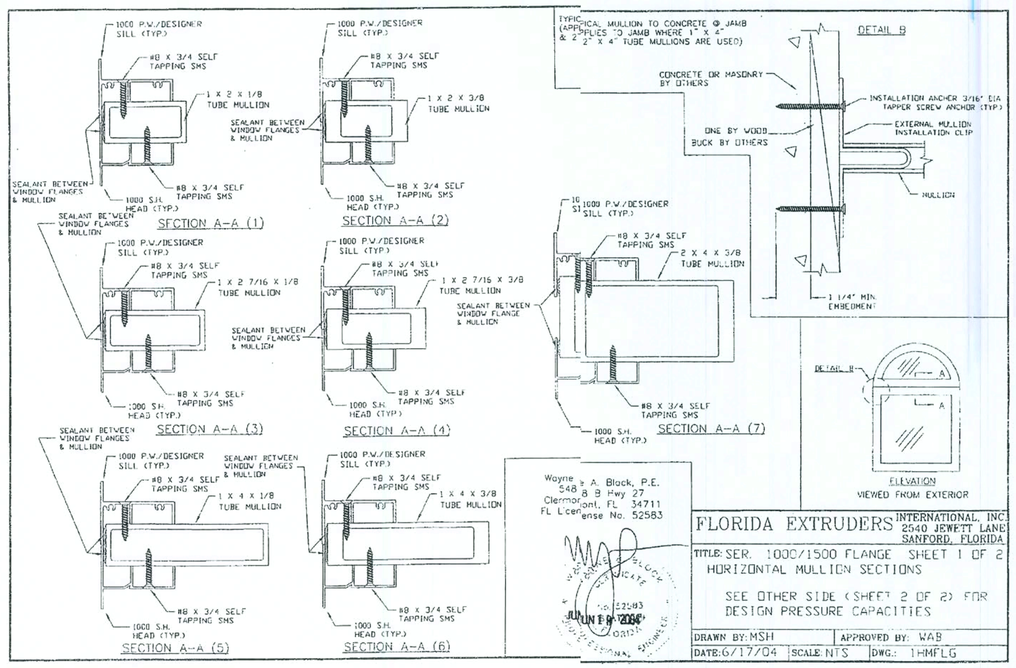
REVISIONS			
No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX2011

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

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) as applicable) to achieve the design pressures specified on the fenestration product as required by the 2003 Florida Building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.4 and the 2004 FBC-Residential, Section 4613.5. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

Robert J. Amoruso, P.E.
FL License No. 49752

Drawing No. FLEX24112
Sheet 1 of 2



Wayne A. Block, P.E.
5488 Hwy 27
Clermont, FL 34711
FL License No. 52583

FLORIDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA

TITLE: SER. 1000/1500 FLANGE SHEET 1 OF 2
HORIZONTAL MULLION SECTIONS

SEE OTHER SIDE (SHEET 2 OF 2) FOR DESIGN PRESSURE CAPACITIES

DRAWN BY: MSH	APPROVED BY: WAB	
DATE: 6/17/04	SCALE: NTS	DWG.: 1HMFLG

FLORIDA EXTRUDERS
WINDOWS IN BLOCK
RELEASE DATE:

SHEET: 2 of 3

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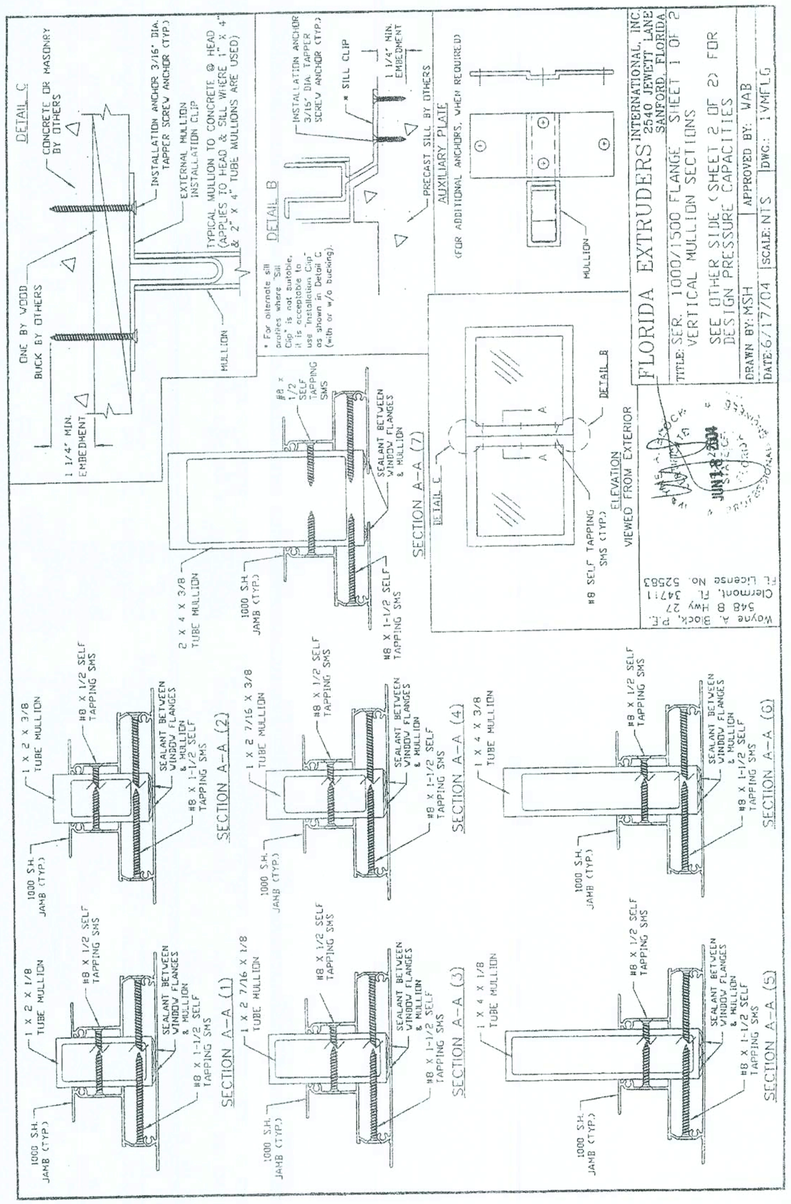

General Notes Drawing for Milestone Series 1000, 1500, 2000 and 3000 Non-Impact Resistant Aluminum Window and Patio Sliding Glass Door Installation Details

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:

a. FRAME FRAME WINDOWS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 1/4".
b. FIN FRAME WINDOWS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 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.
   i. In the case where the nailing option is employed with fin set windows, shims can be limited to the location spacing where wood screws are required. In no event shall the shim be coincident with the nail.
c. SLIDING GLASS DOORS - Shim as required at each installation fastener with load bearing shim. The maximum allowable shim stack to be 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 & SGD SEAM SEALANT (See Disclaimer Statement above):

a. GENERAL - SEALANT TYPE (not applicable when a specific brand or type is required)
   i. 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.
b. WINDOWS - FLANGE FRAME
   i. Adhesive Seal - REQUIRED
      1. Use Vulkem 116 adhesive sealant or approved equal between window's integral mounting fin and precast concrete sill (or other sill construction) along full length of sill.
      2. Application of Vulkem 116 adhesive sealant or approved equal must comply with sealant manufacturer's recommendations.
   ii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind window flange at head and jambs.
      2. Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.
c. WINDOWS - FIN FRAME
   i. Adhesive Seal - NOT REQUIRED
   ii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind window flange at head, sill and jambs.
      2. Use sealant for perimeter seal around exterior of flange window mounting fin and to seal heads of installation fasteners.
d. SLIDING GLASS DOORS
   i. Adhesive Seal - NOT REQUIRED
   ii. Mechanically Fastened Corners - REQUIRED
      1. Sliding Glass Doors received in "Knocked-Down" condition shall have jamb and sill corners sealed with a small joint sealant.
   iii. Sealant - RECOMMENDED (see Disclaimer)
      1. Use sealant behind door flange at head & jambs and behind track strip.
      2. Liberally apply sealant under sill or set sill in bed of wet concrete. Seal between back corner of sill riser and concrete. Seal at fastener holes prior to installing fastener and around head after installation.
      3. Use sealant for perimeter seal around exterior of door and between track strip & back for pocket doors and to seal heads of installation fasteners.

3) MATERIALS:

a. Window and sliding glass door frame material is Aluminum Alloy 6063 T6.
b. Concrete Screws shall meet the minimum requirements of Note 7.
c. Wood Screws shall meet the requirements of Note 8.
d. Tapping (i.e., Sheet Metal) screws when used in lieu of Wood screws shall meet the requirements of Note 8.
e. Nails shall meet the requirements of Note 9.
f. Corrosive Resistance Coatings for installation fasteners shall meet the requirements of Note 5.
g. Concrete block or concrete masonry units (CMU) shall meet the requirements of ASTM C90.
h. Concrete shall meet the minimum requirements of the Florida Building Code (minimum compressive strength of 2500 psi).

4) BUCKING

a. One by (1x) wood bucking:
   i. Applies to all non-structural bucks less than 1 1/2" thickness. Not intended to limit to nominal one by wood buck only.
   ii. One by wood bucking shall be secured to the substrate (masonry, concrete or structural wood bucking or framing using fasteners suitable for the application.
      1. If the product specific installation drawing does prescribe fastening requirements for the bucking, they shall be followed.
      2. 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.
         a. Installer, builder or design professional of record may specify method to secure one by wood bucking to substrate to facilitate window installation.
b. Two by (2x) wood backing or framing:
   i. Applies to all structural wood bucks and/or framing at the head, jamb or sill equal to and greater than 1 1/2" thickness.
   ii. 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.

B) General Fastener Installation Instructions

5) 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.

6) All field supplied holes in the frame (if required) will be as follows.
a. 5/32" diameter for all #8 wood or tapping screws.
b. 3/16" in diameter for all #10 wood or tapping screws and 3/16" diameter for concrete screws.
c. No. 29 size drill bit for 0.1361" shank diameter nails.
d. No. 33 size drill bit for 0.113" shank diameter nails.

7) Concrete Screws (For attachment to masonry or concrete substrate.)

a. Shall be "Flat" head unless otherwise indicated.
b. Shall have a minimum nominal diameter of 3/16" unless otherwise noted.
c. Shall have a minimum embedment of 1 3/4" into the concrete, masonry or concrete block or masonry unit (CMU) receiving the point unless otherwise noted.
d. Shall have an allowable working load in shear as noted on the "Parts List" on the product specific installation drawing.
   i. Working load is defined as the ultimate load determined by test divided by 4 as determined and published by the concrete screw's manufacturer.
   ii. If the allowable shear load exceeds the above minimum, required number of fasteners shown on the installation drawings CANNOT be decreased.
   iii. 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.
e. Concrete screws shall be of sufficient length so that the minimum embedment into the receiving substrate (member receiving the point) is met.
f. Minimum Edge Distance of concrete screw fasteners shall be 2 3/4" 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 Amoruso'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 Amoruso dated July 31, 2002 from the Office of the Attorney General, State of Florida.

Robert J. Amoruso, P.E.
FL License No. 49752

ROBERT JAMES AMORUSO LICENSE No. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Drawing No. FLEX20100
Sheet 1 of 2

FASTENER LOCATION TABLE (see Elevation View, Sheet 1)

Series	Size Code	Frame Width and Height: Width	Height (Full Radius)	Height (Half Radius)	Fastener Screw Location: 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	39 3/16	40 11/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	14	19 1/8	51 7/16	52 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	145	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
2000	17	19 1/8	90	86 5/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	1H2	26 1/2	27 7/16	29 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H3	26 1/2	39 13/16	41 15/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H4	26 1/2	52 1/16	54 3/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H45	26 1/2	57 11/16	59 13/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H5	26 1/2	64 7/16	66 9/16	A, B, C	D, E, F, G, H, I
1000/1500/2000	1H6	26 1/2	73 7/16	75 9/16	A, B, C	D, E, F, G, H, I, J, K
1000/1500	1H7	26 1/2	84	84	A, B, C	D, E, F, G, H, I, J, K
2000	1H7	26 1/2	90	87 9/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	3H2	30 1/2	27 23/96	30 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H3	30 1/2	40 13/96	42 29/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H4	30 1/2	52 37/96	54 41/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H45	30 1/2	58 1/96	60 23/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H5	30 1/2	64 73/96	67 11/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	3H6	30 1/2	73 73/96	76 11/48	A, B, C	D, E, F, G, H, I, J, K
1000/1500	3H7	30 1/2	84 1/96	83 47/48	A, B, C	D, E, F, G, H, I, J, K
2000	3H7	30 1/2	90 1/96	89 47/48	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	245	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
2000	27	37	90	89 5/16	A, B, C	D, E, F, G, H, I, J, K, Y, Z
1000/1500/2000	482	48	29 7/32	33 7/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	483	48	41 19/32	45 25/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	484	48	53 27/32	57 37/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	4845	48	59 15/32	63 19/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	485	48	66 7/32	70 7/48	A, B, C	D, E, F, G, H, I
1000/1500/2000	486	48	75 7/32	79 7/48	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
2000	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	345	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	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 BUCK:

(I) 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:
(1) 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.
(2) 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.
(J) 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-up-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:
(1) 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.
(2) 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.
(3) 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 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

(O) If exact window size is not listed in fastener installation table, use fastener locations listed for next larger size.
(P) 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.
(Q) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(R) 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.
(S) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

FASTENER LOCATION TABLE NOTES:
1. This chart and Notes I, J, K.1, L, M and N for use when Radius Head Flange Window is installed in opening with the following attributes:
   a. Wood Structural Build-Down at Head, and
   b. Masonry/Concrete Substrate and One-By Wood Buck at Jambs.
2. 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.
   a. Wood Structural Build-Down at Head,
   b. Optional Structural Two By Buck is installed at the head or jambs, and
   c. Optional One By Wood Buck is installed at the head or jambs.
3. See Note R regarding structural framing requirements.
4. See Sheet 1 for Fastener Location Diagrams.
5. 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

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Florida COA No. 0235

TITLE: General Notes Drawing for Milestone Series 1000, 1500, 2000 & 3000 Non-Impact Resistant Aluminum Windows & Patio Sliding Glass Doors Installation Details

REVISIONS

No.	Date	By	Description
0	6/16/05	RJA	Original Release
1	9/26/05	RJA	Editorial Changes
2	12/27/05	RJA	Revised Notes 1, 8, 9 & 12
3	11/14/06	RJA	Revised Notes 2, 7, 8, 9, 11, 12, 13 & 15

Date: 11/14/06
Scale: NTS
Drawn By: RJA
Checked By: JH

REVISIONS :

Maronda Homes
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TITLE: 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	By	Description
0	10/27/05	RJA	Supersedes FLEX22000
1	11/14/06	RJA	Revised Notes 1, 2, 3
2	3/02/07	RJA	Editorial Corrections

Date: 3/02/07
Scale: NTS
Drawn By: RJA
Checked By: JH

FLORIDA EXTRUDERS
WINDOWS IN BLOCK

RELEASE DATE: 31 MAR 2006

SHEET: 3 of 3

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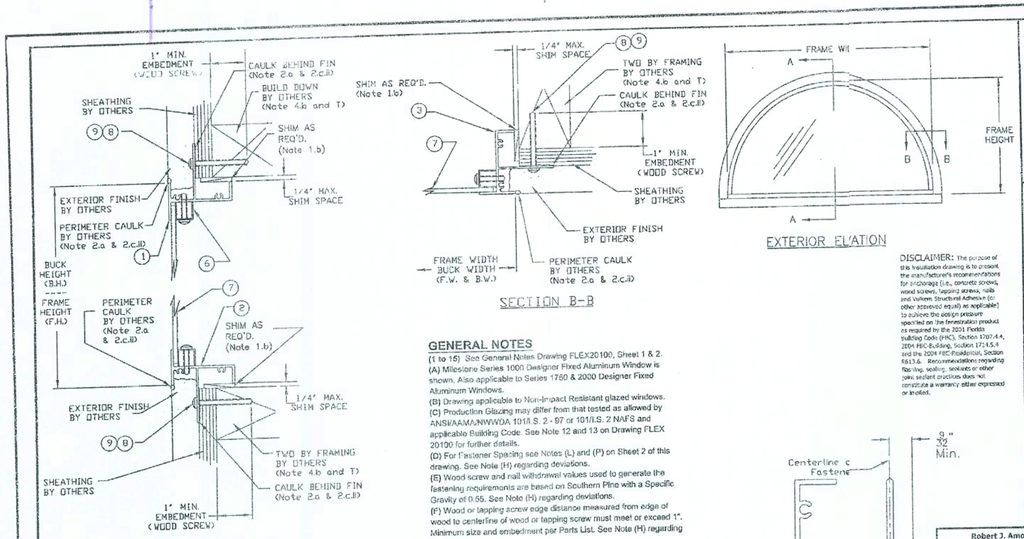


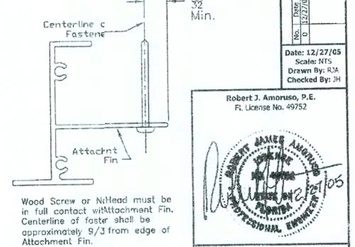
GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.
(A) Milestone Series 1000 Designer Fixed Aluminum Window is shown. Also applicable to Series 1750 & 2000 Designer Fixed Aluminum Windows.
(B) Drawing applicable to Non-Impact Resistant glazed windows.
(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2-97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(D) For Fastener Spacing see Notes (L) and (P) on Sheet 2 of this drawing. See Note (H) regarding deviations.
(E) Wood screw and nail withdrawal values used to generate the fastening requirements are based on Southern Pine with a Specific Gravity of 0.55. See Note (H) regarding deviations.
(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(G) Nail edge distance measured from edge of wood to centerline of nail must meet or exceed 9/16" or 5 times Shank Diameter, whichever is larger. Minimum size and embedment per Parts List. See Note (H) regarding deviations.
(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.
(I) All field supplied holes in the frame (if required) will be 3/16" in diameter for #8 wood screws or the shank diameter of the nail rounded up to the next standard designation drill bit size.
(J) Wood Screws and Nails SHALL NOT be mixed to fasten the same assembly.

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) as applicable) to achieve the design pressure specified on the fenestration products as required by the 2001 Florida building Code (FBC), Section 1707.4.4, 2004 FBC-Building, Section 1714.5.1 and the 2004 FBC-Residential, Section 5613.6. Recommendations regarding flashing, sealing, sealants or other joint sealant practices does not constitute a warranty either expressed or implied.

PARTS LIST

1 Head - FinFrame
2 Sill - Fin Frame
3 Jamb - Fin Frame
4 Not Used
5 Not Used
6 Glazing Bead - Rigid Vinyl
7 Glazing - See Note (B) and (C)
8 #8 Wood or Tapping Screw with a minimum embedment of 1" into the structural wood substrate. See Note (K) and Detail A on this drawing and Note 4.b & 8 on Drawing FLEX20100.
9 Round Head Deformed Shank Nail with minimum 0.113" diameter (11 GA) and minimum embedment of 1-7/8" into the structural wood substrate. See Note (N) and Detail A on this drawing and Notes 4.b & 9 on Drawing FLEX20100.



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TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Fin Frame Designer Fixed Window Installation Drawing for Wood Substrate with Wood Screws or Nails

REVISIONS: No. | Date | Description | By | Screenshot No. FLEX0037

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX28120
Sheet 1 of 2

FASTENER INSTALLATION INSTRUCTIONS - FLEX28120

#8 WOOD SCREWS:

(K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing or the build-down framing component.
(L) #8 Wood Screw spacing shall be as follows:
- 6" maximum from each corner of head, sill or jambs, and
- evenly spaced between corner fasteners but not exceeding 24" o.c. spacing in head, sill or jambs for the following configurations at design pressures to 70 PSF:
  - eyebrow
  - half-eyebrow
  - half-eyebrow
  - octagon
  - fan
  - pentoid
  - full-circle
  - half-circle
  - triangle
  - trapezoid
  - oval
- evenly spaced between corner fasteners but not exceeding 16" o.c. spacing in head, sill or jambs for the following configurations at design pressures to 70 PSF:
  - quarter-circle
  - quarter-circle arch
  - half-fan

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

NAILS:

(N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of 1 7/8" into the two by wood or build-down framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annular (ring) shank style only.

(O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
- Duro-Fast deformed shank nail No. 325.

(P) Spacing of nails shall be:
- 6" from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jambs for the following configurations at design pressures 46 to 70 PSF:

eyebrow	7" o.c. spacing
half-eyebrow	7" o.c. spacing
fan	7" o.c. spacing
half-fan	5" o.c. spacing
full-circle	9" o.c. spacing
half-circle	7" o.c. spacing
half-circle arch	7" o.c. spacing
quarter-circle	5" o.c. spacing
quarter-circle arch	5" o.c. spacing
oval	15" o.c. spacing
octagon	9" o.c. spacing
pentoid	7" o.c. spacing
triangle	7" o.c. spacing
trapezoid	7" o.c. spacing

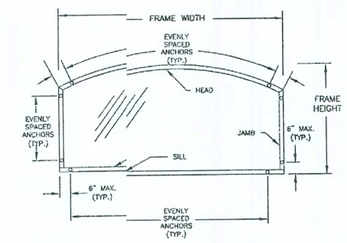
(P) Spacing of nails shall be (continued):
- evenly spaced between corner fasteners but not exceeding the o.c. spacing in head, sill and jambs for the following configurations at design pressures to 45 PSF:

eyebrow	12" o.c. spacing
half-eyebrow	12" o.c. spacing
fan	11" o.c. spacing
half-fan	8" o.c. spacing
full-circle	14" o.c. spacing
half-circle	11" o.c. spacing
half-circle arch	12" o.c. spacing
quarter-circle	8" o.c. spacing
quarter-circle arch	8" o.c. spacing
oval	24" o.c. spacing
octagon	14" o.c. spacing
pentoid	12" o.c. spacing
triangle	12" o.c. spacing
trapezoid	12" o.c. spacing

(Q) Nails shall not be used to fasten assembly into end grain of wood

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing in Notes (L) and (P). Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.
(S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2 - 97 or 101/I.S. 2 NAFS and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.
(T) Structural two by wood and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.
(U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.



EXTERIOR ELEVATION

ANCHOR & SPACING ILLUSTRATION
EYEBROW / ARCH DESIGNER WINDOW

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 407-323-2007 (fax)
www.floridaextruders.com
Florida COA No. 9235

TITLE: Milestone Series 1000 & 2000 Non-Impact Resistant Aluminum Fin Frame Designer Fixed Window Installation Drawing for Wood Substrate with Wood Screws or Nails

REVISIONS: No. | Date | Description | By | Screenshot No. FLEX0037

Date: 12/27/05
Scale: NTS
Drawn By: RJA
Checked By: JH

Drawing No. FLEX28120
Sheet 2 of 2

REVISIONS :

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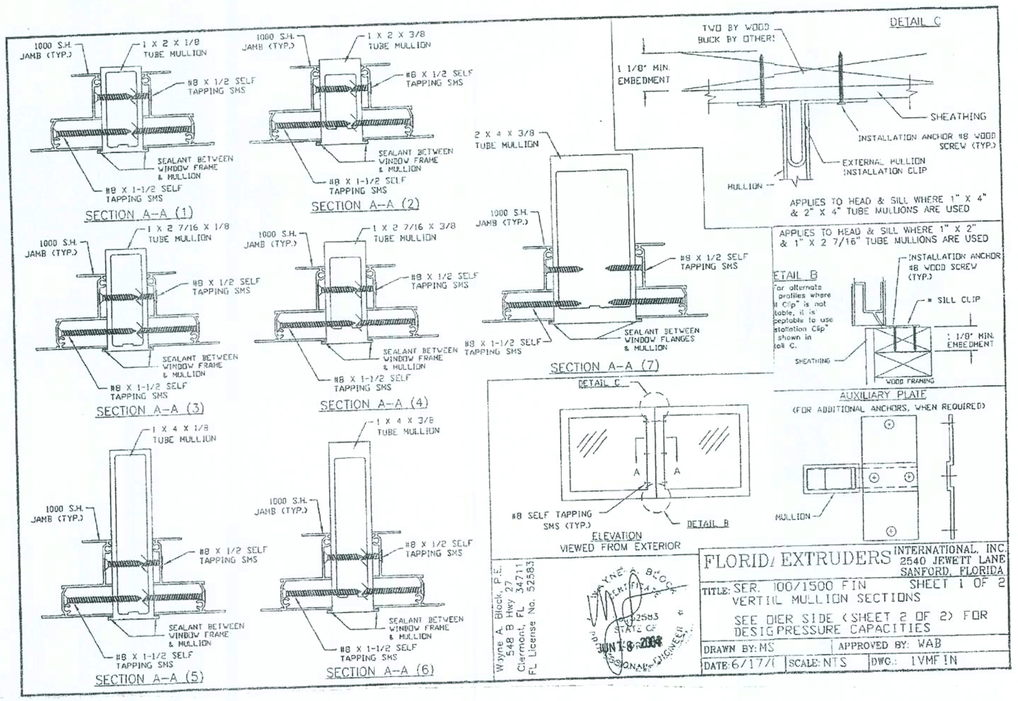
Maronda Homes
4005 MARONDA WAY SANFORD, FLORIDA
(407) 321-0064

FLORIDA EXTRUDERS
WINDOWS IN FRAME

RELEASE DATE:



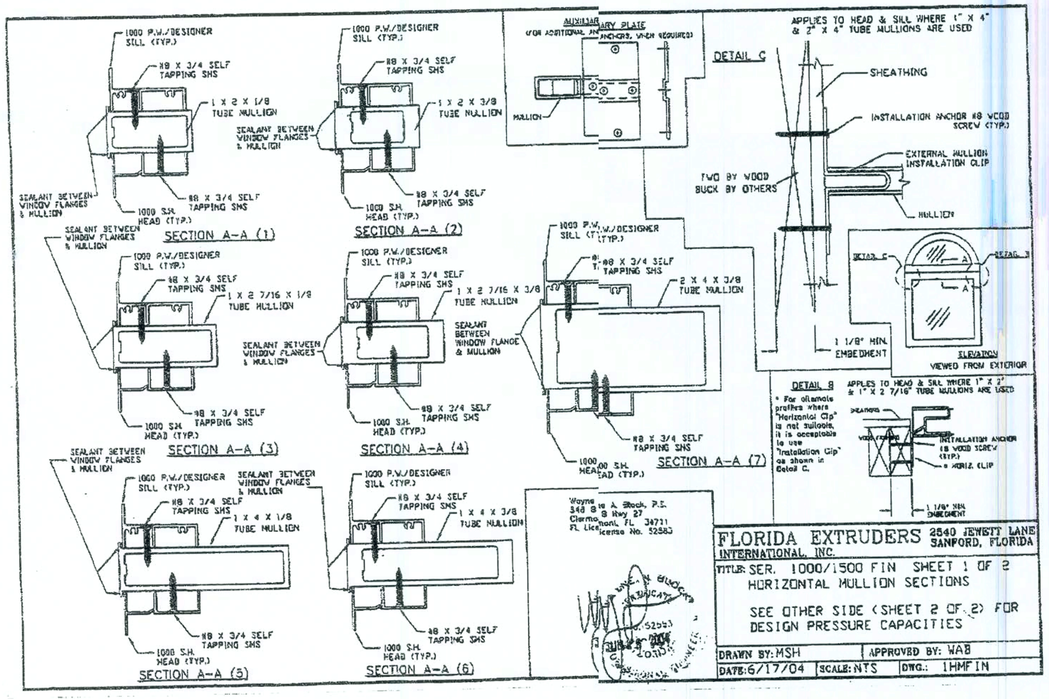
Wayne A. Block, P.E.
548 B Hwy 27
Clermont, FL 34711
FL License No. 52583

FLORIDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA

TITLE: SER. 100/1500 FIN SHEET 1 OF 2
VERTIC MULLION SECTIONS

SEE OTHER SIDE (SHEET 2 OF 2) FOR DESIGN PRESSURE CAPACITIES

DRAWN BY: MS | APPROVED BY: WAB
DATE: 6/17/0 | SCALE: NTS | DWG.: 1VMFIN



Wayne A. Block, P.E.
548 B Hwy 27
Clermont, FL 34711
FL License No. 52583

FLORIDA EXTRUDERS INTERNATIONAL, INC.
2540 JEWETT LANE
SANFORD, FLORIDA

TITLE: SER. 1000/1500 FIN SHEET 1 OF 2
HORIZONTAL MULLION SECTIONS

SEE OTHER SIDE (SHEET 2 OF 2) FOR DESIGN PRESSURE CAPACITIES

DRAWN BY: MSH | APPROVED BY: WAB
DATE: 6/17/04 | SCALE: NTS | DWG.: 1HMFIN

SHEET: 2 of 3

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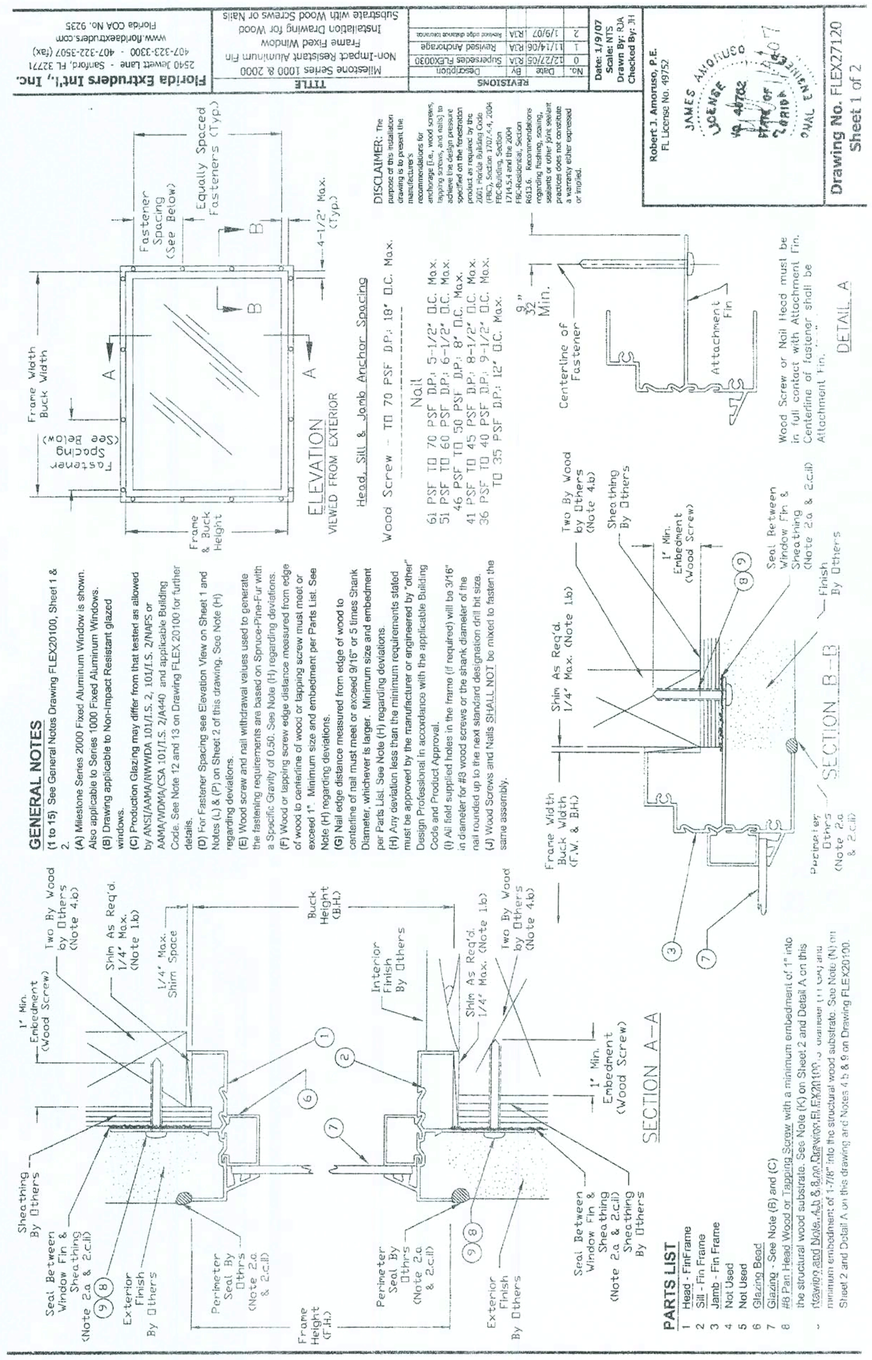


GENERAL NOTES

(1 to 15) See General Notes Drawing FLEX20100, Sheet 1 & 2.

(A) Milestone Series 2000 Fixed Aluminum Window is shown. Also applicable to Series 1000 Fixed Aluminum Windows.

(B) Drawing applicable to Non-Impact Resistant glazed windows.

(C) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(D) For Fastener Spacing see Elevation View on Sheet 1 and Notes (L) & (P) on Sheet 2 of this drawing. See Note (H) regarding deviations.

(E) Wood screw and nail withdrawal values used to generate the fastening requirements are based on Spruce-Pine-Fur with a Specific Gravity of 0.50. See Note (H) regarding deviations.

(F) Wood or tapping screw edge distance measured from edge of wood to centerline of wood or tapping screw must meet or exceed 1". Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(G) Nail edge distance measured from edge of wood to centerline of nail must meet or exceed 9/16" or 5 times Shank Diameter, whichever is larger. Minimum size and embedment per Parts List. See Note (H) regarding deviations.

(H) Any deviation less than the minimum requirements stated must be approved by the manufacturer or engineered by "other" Design Professional in accordance with the applicable Building Code and Product Approval.

(I) All field supplied holes in the frame (if required) will be 3/16" in diameter for #8 wood screws or the shank diameter of the nail rounded up to the next standard designation drill bit size.

(J) Wood Screws and Nails SHALL NOT be mixed to fasten the same assembly.

PARTS LIST

1. Head - Fin Frame
2. Sill - Fin Frame
3. Jamb - Fin Frame
4. Not Used
5. Not Used
6. Glazing Bead
7. Glazing - See Note (B) and (C)
8. #8 Pan Head Wood or Tapping Screw with a minimum embedment of 1" into the structural wood substrate. See Note (K) on Sheet 2 and Detail A on this drawing and Notes 4.b & 8.ii on Drawing FLEX20100. Or Nail with a minimum embedment of 1-7/8" into the structural wood substrate. See Note (N) on Sheet 2 and Detail A on this drawing and Notes 4.b & 8 on Drawing FLEX20100.

DISCLAIMER: The manufacturer reserves the right to modify this drawing to be present the manufacturer's recommendations for attachment of wood screws, tapping screws, and nails) to achieve the design pressure specified for the window or door product as required by the 2001 Florida Building Code, FBC, Residential, Section 1714.5.4 and the 2004 FBC-Residential, Section R609.1.4. Recommendations regarding flashing, caulking, sealants or other joint sealant materials are not to be construed as a warranty either expressed or implied.

No.	Date	By	Description
0	12/27/05	RJA	Supersedes FLEX0035
1	11/14/06	RJA	Revised Anchorage
2	1/9/07	RJA	Revised wind pressure

Date: 1/9/07
Scale: NTS
Drawn By: RJA
Checked By: JH

Robert J. Amoruso, P.E.
FL License No. 49752

JAMES AMORUSO LICENSE No. 49752 STATE OF FLORIDA PROFESSIONAL ENGINEER

Drawing No. FLEX27120
Sheet 1 of 2

TITLE
Milestone Series 1000 & 2000
Non-Impact Resistant Aluminum Fin Frame Fixed Window
Installation Drawing for Wood Substrate with Wood Screws or Nails

Florida Extruders Int'l., Inc.
2540 Jewett Lane - Sanford, FL 32771
407-323-3300 - 407-322-3507 (fax)
www.floridaextruders.com

FASTENER INSTALLATION INSTRUCTIONS - FLEX27120

#8 WOOD SCREWS:

(K) #8 Wood Screw must be of sufficient length to achieve minimum embedment of 1" into the two by wood framing.

(L) Spacing of wood screws shall be:
- 4-1/2" max. from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners but not exceeding 18" o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
- Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from frame/buck width or height dimension of frame.

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

NAILS:

(N) Nails shall meet the following requirements:
- 0.113" diameter or greater,
- sufficient length to achieve minimum embedment of 1 7/8" into the two by wood framing (generally, nail 2 3/8" length or greater shall meet this requirement), and
- helical (screw) or annular (ring) shank style only.

(O) Manufacturer's nails meeting these requirements are (but not limited to) the following:
- Paslode deformed shank nail, No. 404947, 404537, 650111 and 650148.
- Duro-Fast deformed shank nail No. 325.

(P) Spacing of nails shall be:
- 4-1/2" max. from each corner of the head, sill and jambs, and
- evenly spaced between corner fasteners and not exceeding o.c. spacing for the head, sill and jambs as shown in Elevation View on Sheet 1 of this drawing.
- Tolerance is +/- 1". This tolerance is applicable to the evenly spaced distance. 2
- Corner distance measured from frame/buck width or height dimension of frame.

(Q) Nails shall not be used to fasten assembly into end grain of wood.

DESIGN PRESSURE RATING & FBC CODE COMPLIANCE

(R) Installations depicted in these instructions acceptable for design pressures to 70 PSF with fastener spacing shown the Elevation View on Sheet 1 of this drawing for the following window sizes:
- to 52 1/8" x 95
- to 63" x 80"
- to 71" x 71"
- to 73" x 73"
- to 83" x 55 1/4"
- to 95" x 49 5/8"
- to 119" x 37 3/8"

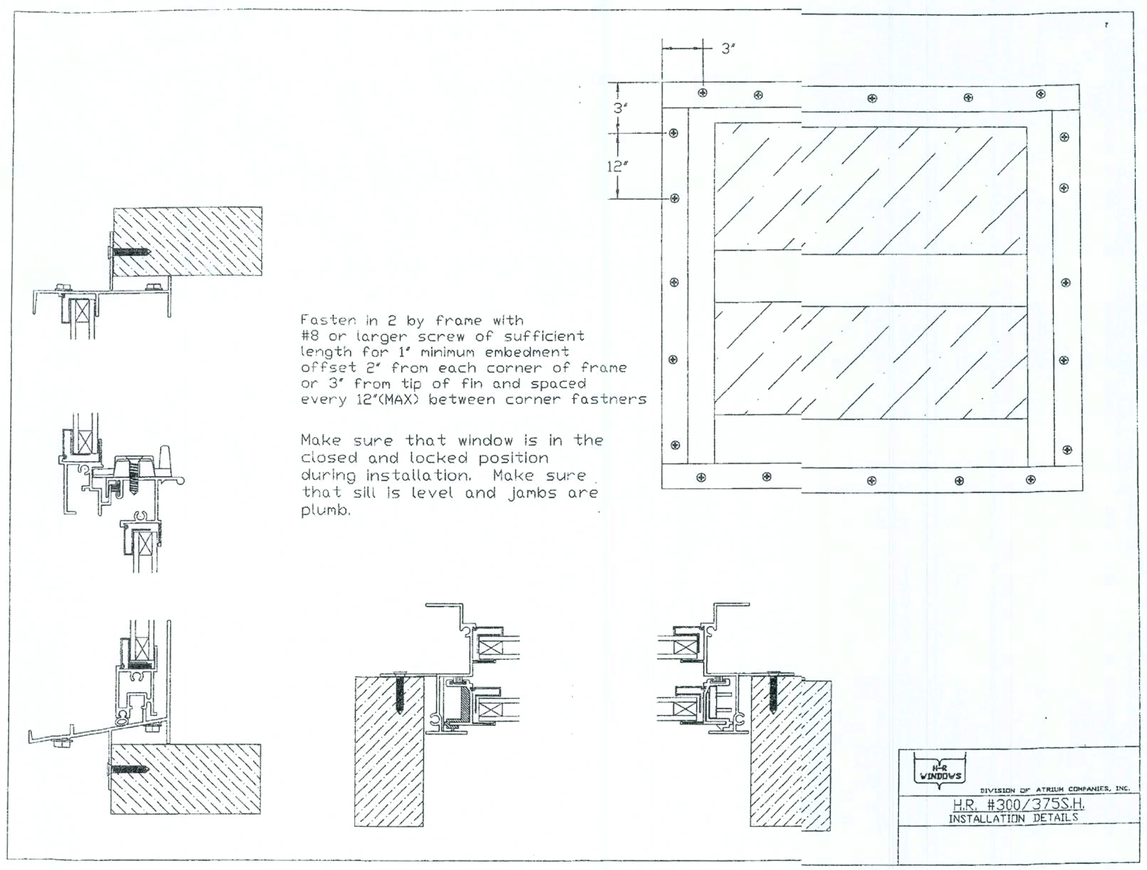
Design Pressures (D.P.) are positive and negative. Overall window assembly design pressure may be less than 70 PSF and shall be determined in accordance with Note 13 of FLEX20100.

(S) Production Glazing may differ from that tested as allowed by ANSI/AAMA/NWWDA 101/I.S. 2, 101/I.S. 2/NAFS or AAMA/WDMA/CSA 101/I.S. 2/A440 and applicable Building Code. See Note 12 and 13 on Drawing FLEX 20100 for further details.

(T) Structural two by wood buck and/or framing at the head, sill and jambs to be securely fastened to transfer the load to the wood structural substrate per the FBC and the engineer of record's details as applicable.

(U) See FLEX20100, Notes 10 to 15 for additional FBC Code Compliance.

Drawing No. FLEX27120
Sheet 2 of 2



REVISIONS :
3-11-06 Revised

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

FLORIDA EXTRUDERS
WINDOWS IN FRAME
RELEASE DATE:

SHEET: 3 of 3

c:\fla-extrud.dgn Sep. 01, 2006 09:32:39

PRODUCT APPROVAL INFORMATION SHEET FOFFLORDIA

PROJECT NAME:_____ PERMIT #_____

PROJECT ADDRESS: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9b-72.Please provide the inrmation and product approval number(s) for the building components listed below as applicable to the building construction project for the peint number listed above.You should contact you product supplier if you do not know the product approval number for any of the applicablested products.Information regarding statewide product approval may be obtained at: www.floridabuildingorg.

Category/Subcategory	Manufacturer	Product Description	Limitation of se	State #	Design Pressures
A.EXTERIOR DOORS					
1.Swinging	Plastpro Inc.	Fiberglass Doors	Evaluated for use in lations adhering to the Floridauilding Code and hwere pressu requirements as determed by ACSE 7 Minimum Desl Loads For Building and Otherstructures.	FL 6729.1 FL 6729.5	+ 50 / -50 + 50 / -50
2.Sliding	Simonton/Norandex Flordia Extruders	Sliding Glass Doors	500 72X80 SGR45 Milestone 1000 S)	FL 5979.1 FL 45.1	+ 50 / -50 +45 / -45
3.Sectional					
4.Roll up	Wayne Dalton	Garage Doors 130 16' 9100 / 5120 8' Garage Doors 140 16' 9100 / 5120 8'	As indicated in eluation report and installion drawings.Not to be used in HVHZ.	FL 5287.1 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
B. WINDOWS					
1.Single Hung	H-R Windows Danvid Window Co Flordia Extruders	300 Fin Single Hung 341 Flange Frame S.H. Milestine 1000 S.H.	40-17 72x74 1-45	FL5089.1 FL 2752.1 FL 42.1	+45 / -45 +55 / -55 +45 / -45
2.Horizontal Slider					
3.Casement					
4.Double hung					
5.Fixed	H-R Windows Danvid Window Co Flordia Extruders	300Fin Frame Fixed341 Flange Frame Fixed Milestone 1000 Fixed	437.438 111X63 F60 3/16 TempereGlass Flange & Fin	FL 1291.2 FL 2349.1 FL 44.1	+55 / -55 +70 / -70 +45 / -45
6.Awning					
7.Pass-through					
8.Projected					
9.Mullion	H-R Windows Flordia Extruders	Mullions Milestone Tube Mull Fin Or Flange	Evaluated for use in lations adhering to the Floridauilding Code and where pressu requirements as determed by ACSE 7 Minimum Desl Loads for Building and Otherstructures.	FL 5782 FL 3136-R2	+45 / -45
10.Wind breaker					
11.Dual action					
12.Other					
C. PANEL WALL					
1.Siding	Owen Corning	Norandex - Summit Manor Dbl 4.5 Butch Lap Reynolds - Easy Street Dbl 4.5 Dutch Lap	This Evaluation is f for use within the FBC\VHZ or on Education Facilths within the State of Flordi\Vinyl Siding is limited to type V construction,as defed below. Section 602.5- TYPI V CONSTRUCTION Ty V construction is ft type of construction in whic the structural elements,eerior walls and interior wls are of ant material rmitted by this code.Complice is valid only if the subject profile tradname is current on the VSI Vyl Siding Certification Progr.	FL 920.3 FL 920.7	+NA / -152 +NA / -152
2.Soffit	Alsco Metal Corp	16" Vented Soffit Quad 4 Aluminum Soffit	For use as soffit ily.Not for use in HVHZ	FL 4459.1	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 1 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 5289.1 FL 8103.1 FL 3792.5	
E. SHUTTERS					
1.Storm Panels	Atrium Shutters,Inc. K&D Manufacturing All American Shutters,Inc.	5L Panel Galv.Stl 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 5547.1 FL 2773.1 FL 393.1	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 NOA 05-0105.05.	FL.R1,565, 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 R1	
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:_____

FLORIDA BUILDING CODE 2004 :RESIDENTIAL

REVISIONS :
1C-29-07 UPDATE LISTS
01-21-08 UPDATE ROLL UP DOORS

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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 S. RESIDENTIAL AND2005, 2006 SUPPLEMENT

PRODUCT APPROVAL

DRAWN BY:
GARAGE:
RELEASE DATE:

SHEET:

PLOT DATE: 21 JAN 2008
08:13:13
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THIS DRAWING WAS CREATED BY USING THE AMERICAN WOOD SOFTWARE AND HAS BEEN REVIEWED BY SE,DS,SI,MF,JG,IT,EG,DT,IT AND IT.

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

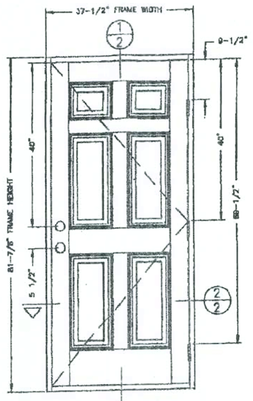
DOOR LEAF CONSTRUCTION:

FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.080" THICK FIBERGLASS SKIN.

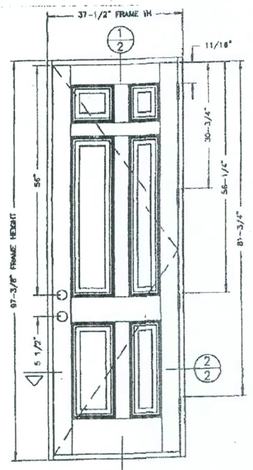
CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.

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



TYPICAL ELEVATION 6'-8" DOOR



TYPICAL ELEVATION -0" DOOR

DESIGN PRESSURE RATING (TABLE #1)

	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	NOT APPROVED	+60 PSF
NEGATIVE	NOT APPROVED	-60 PSF

DESIGN PRESSURE RATING (TABLE #2)

	WHERE WATER INFILTRATION REQUIRED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	NOT APPROVED	+50 PSF
NEGATIVE	NOT APPROVED	-55 PSF

PLASTPRO, INC. 9 PEACH TREE HILL RD. LIVINGSTON, NJ 07039

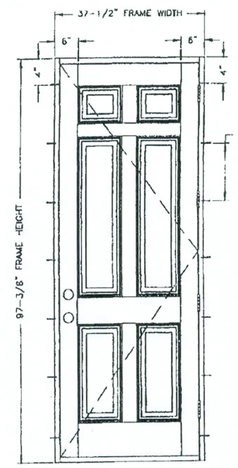
PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS DOOR

PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

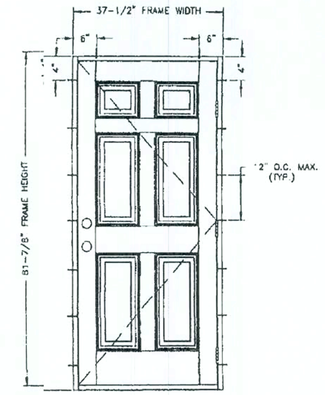
REVISIONS: NO. DATE BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99 SCALE: N.T.S. DWG. BY: R.P.P. CHK. BY: DRAWING NO.: 99-01 SHEET 1 OF 4



ANCHOR LAYOUT FOR 8' 7" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS

1.) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE #8 PFH Wd. Screw, 1" MIN. EMBEDMENT

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

PLASTPRO, INC. 9 PEACH TREE HILL RD. LIVINGSTON, NJ 07039

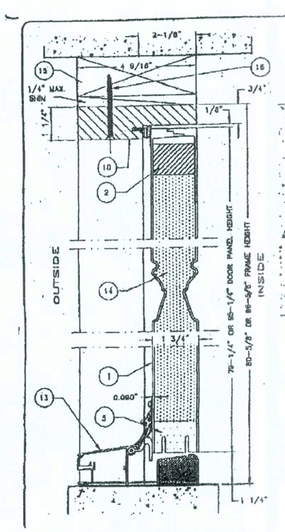
PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS DOOR

PART OR ASSEMBLY: ANCHORING LAYOUT

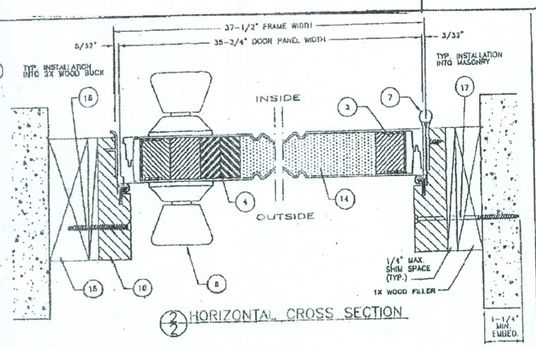
REVISIONS: NO. DATE BY

RW CONSULTING (813) 684-3831

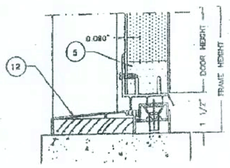
DATE: 01/06/99 SCALE: N.T.S. DWG. BY: R.P.P. CHK. BY: DRAWING NO.: 99-01 SHEET 3 OF 4



1/2 VERTICAL CROSS SECTION



1/2 HORIZONTAL CROSS SECTION



1/2 OPTIONAL THRESHOLD

PLASTPRO, INC. 9 PEACH TREE HILL RD. LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL & HORIZONTAL CROSS SECTIONS

REVISIONS: NO. DATE BY

RW CONSULTING (813) 684-3831

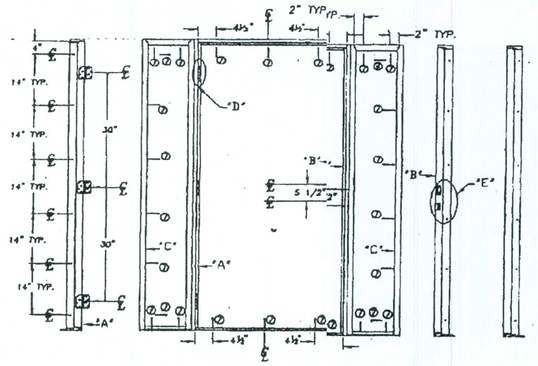
DATE: 01/06/99 SCALE: N.T.S. DWG. BY: R.P.P. CHK. BY: DRAWING NO.: 99-01 SHEET 2 OF 4

NOTE:
WHEN REQ. THE USE OF 2X SHALL BE ALLOWED USING (4) 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 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.

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

SCREW SCHEDULE

1	#10 X 5/8"	PHILLIPS FLAT HEAD
2	#10 X 1 3/4"	PHILLIPS FLAT HEAD
3	#10 X 2"	PHILLIPS FLAT HEAD
4	#10 X 3"	PHILLIPS FLAT HEAD



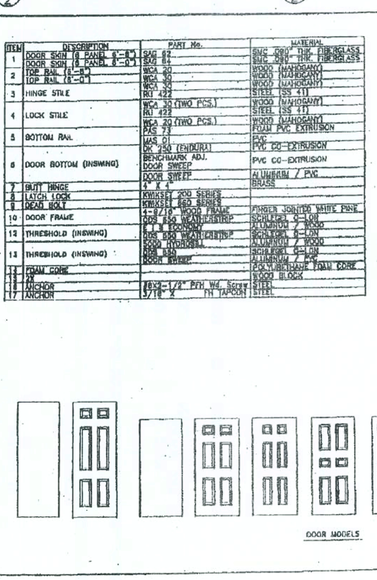
PRODUCT ACCEPTANCE No: DSI-222

Size: up to 5'4 x 6'8 — Inswing (wood jamb) — Configuration: X, OXO, XO, OX

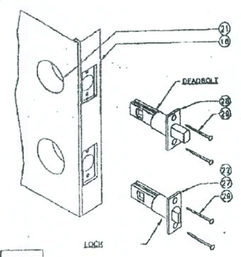
	2'0	2'4	2'6	2'8	3'0
Single Opaque	+80 -80	+80 -80	+80 -80	+80 -80	+80 -80
W/Sidelites				+60 -60	+60 -60
Single Glazed	+75 -80	+64 -77	+60 -71	+56 -67	+50 -60
W/Sidelites				+50 -60	+50 -60

(Door does not meet Missile Impact)
Test # 210-1987, 210-2024

Mfg. by: Nan Ya Plastics / Plastpro Livingston, NJ 07039



DOOR MODELS



ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (8 PANEL R-R)	SKU 87	SMC 0.080" THK FIBERGLASS
	DOOR SKIN (8 PANEL R-O)	SKU 84	SMC SKIN THK FIBERGLASS
2	TOP RAIL (R-R)	WCA 40	WOOD (MAHOGANY)
	TOP RAIL (R-O)	WCA 30	WOOD (MAHOGANY)
3	HINGE STILE	WCA 30	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
4	LOCK STILE	WCA 30 (TWO PCS.)	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
5	BOTTOM RAIL	WCA 30 (TWO PCS.)	WOOD (MAHOGANY)
		PAS 13	FOAM PVC EXTRUSION
		WAS 30	PVC
6	DOOR BOTTOM (INSWING)	DC 250 (ENDURA)	PVC CO-EXTRUSION
		BENCHMARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC
7	BUTT HINGE	4 X 4	BRASS
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 150 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	FINGER JOINTED WHITE PINE
11	THRESHOLD (INSWING)	DOR 156 WEATHERSTRIP	SCHLEGEL 9-1001
		DOR 150 WEATHERSTRIP	ALUMINUM / WOOD
		5000 VERTICAL	SCHLEGEL 9-7201
12	THRESHOLD (INSWING)	DOR 150	ALUMINUM / WOOD
		DOOR SWEEP	SCHLEGEL 9-1201
13	FOAM CORE		POLYURETHANE FOAM CORE
14	FM		WOOD BLOCK
15	ANCHOR	#8X2-1/4" PFH Wd. Screw	STEEL
17	ANCHOR	3/16" X 1" TH TAPCON	STEEL

PLASTPRO, INC. 9 PEACH TREE HILL RD. LIVINGSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC INSWING FIBERGLASS DOOR

PART OR ASSEMBLY: PARTS LIST

REVISIONS: NO. DATE BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99 SCALE: N.T.S. DWG. BY: R.P.P. CHK. BY: DRAWING NO.: 99-01 SHEET 4 OF 4

REVISIONS :

Maronda Homes

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

EXT. DOOR DETAILS IN SWING-FIBERGLASS

RELEASE DATE: 03 JUN 2003

DWG: 0903-553

SHEET: FD1

DISTINCTION SERIES

SMC OUTSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
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. IMPACT RESISTANT SHUTTERS NOT REQUIRED
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:

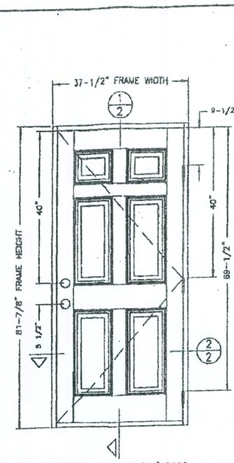
FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.075" THICK FIBERGLASS SKIN.

CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.

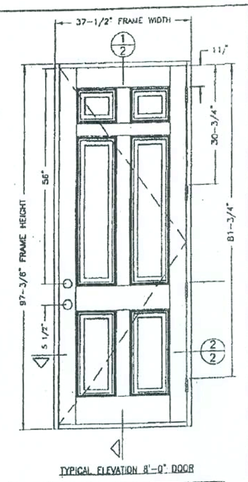
CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS.THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN GLUED TO THE WOOD BLOCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM.

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'-8" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+80 PSF
NEGATIVE	-60 PSF	-80 PSF

DESIGN PRESSURE RATING (TABLE #2)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEED
POSITIVE	+60 PSF	+50 PSF
NEGATIVE	-66 PSF	-55 PSF

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 01/06/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-02
SHEET 1 OF 4

DISTINCTION SERIES

SMC OUTSWING RESIDENTIAL INSULATED FIBERGLASS DOOR IN WOOD FRAME (STEEL REINFORCED WITH FULL GLASS LITE)

GENERAL NOTES

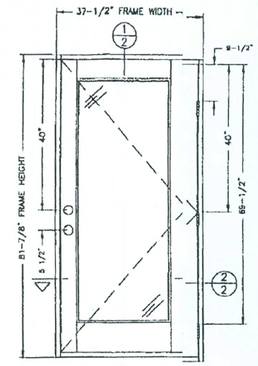
1. THIS PRODUCT IS DESIGNED TO MEET THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. IMPACT RESISTANT SHUTTERS ARE REQUIRED
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.

DOOR LEAF CONSTRUCTION:

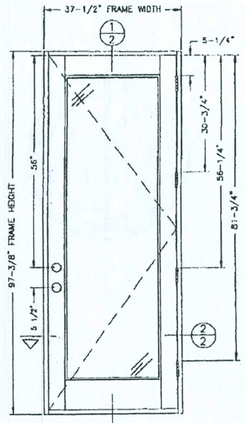
1. FACE SHEETS: EACH SLAB IS CONSTRUCTED FROM 0.075 THK. FIBERGLASS SKIN.
2. CORE DESIGN: THE INTERIOR CAVITY OF EACH DOOR IS FILLED WITH RIGID POLYURETHANE.
3. CONSTRUCTION: THE VERTICAL EDGES OF THE SLAB CONSIST OF GLUED INTERLOCKING FIBERGLASS JOINTS THE HORIZONTAL EDGES CONSIST OF THE FIBERGLASS SKIN, GLUED TO THE WOOD BUCK AT TOP AND TO THE RIGID PVC FOAM INSERT AT BOTTOM
4. GLAZING: 5/8" OVERALL THICKNESS INSULATED GLASS PANEL CONSISTING OF: TWO 1/8" TEMPERED LITES AND ONE AIR SPACE.
5. REINFORCING: ONE (1) "U" SHAPED STEEL REINFORCING CHANNEL MEASURING 1.591"x0.748"x0.076" THK. WAS LOCATED AT EACH PANEL STILE (8'-0" DOOR ONLY)

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'-8" DOOR



TYPICAL ELEVATION 8'-0" DOOR

DESIGN PRESSURE RATING (TABLE #1)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+50 PSF	+50 PSF
NEGATIVE	-50 PSF	-50 PSF

DESIGN PRESSURE RATING (TABLE #2)	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
POSITIVE	+60 PSF	+70 PSF
NEGATIVE	-70 PSF	-70 PSF

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS GLAZED PATIO DOOR
PART OR ASSEMBLY: GENERAL NOTES AND ELEVATIONS

NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 02/09/99
SCALE: 3/4"=12"
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 1 OF 4

REVISIONS :

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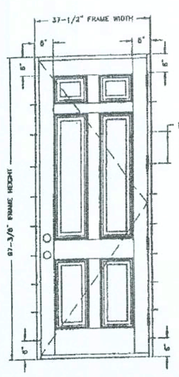
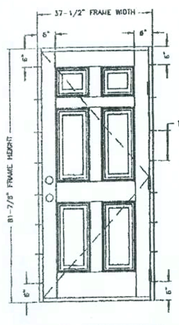
Maronda Homes
(407) 321-0064 4005 MARONDA WAY SANFORD, FLORIDA



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS
1.) INTO 2BY WOOD BLOCKS OR WOOD STRUCTURE #8 SHS. 1-1/2" MIN. EMBEDMENT
2.) INTO 1BY WOOD BUCKS OR INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

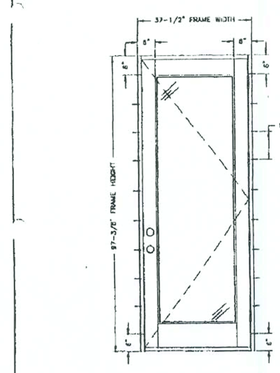
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: ANCHORING LAYOUT

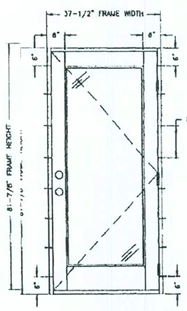
NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 03/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-02
SHEET 2 OF 4



ANCHOR LAYOUT FOR 8'-0" DOOR



ANCHOR LAYOUT FOR 6'-8" DOOR

TYPICAL ANCHORS
1.) INTO 2BY WOOD BLOCKS OR WOOD STRUCTURE #8 SHS. 1-1/2" MIN. EMBEDMENT
2.) THRU 1BY WOOD BUCKS AND INTO MASONRY 3/16" DIA. TAPCONS WITH 1-1/4" MIN. EMBEDMENT

PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: ANCHORING LAYOUT

NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 03/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-05
SHEET 3 OF 4

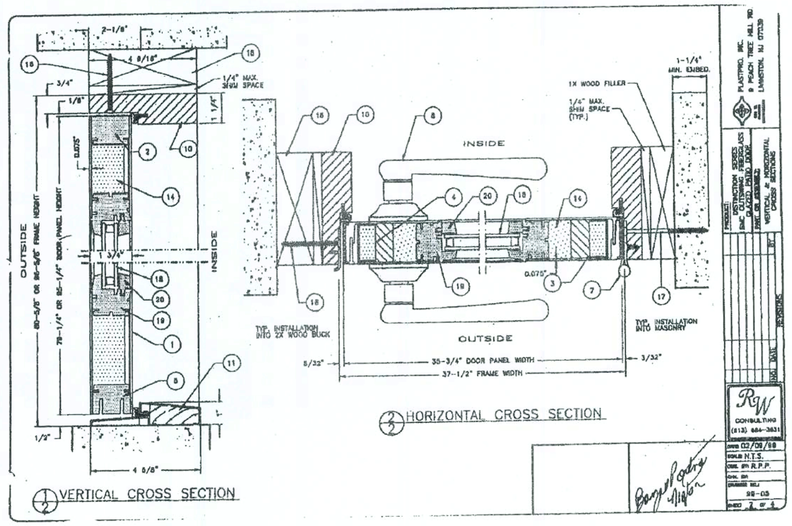
EXT. DOOR DETAILS

OUT SWING-FIBERGLASS

RELEASE DATE:

SHEET:

FD 2



HORIZONTAL CROSS SECTION

VERTICAL CROSS SECTION

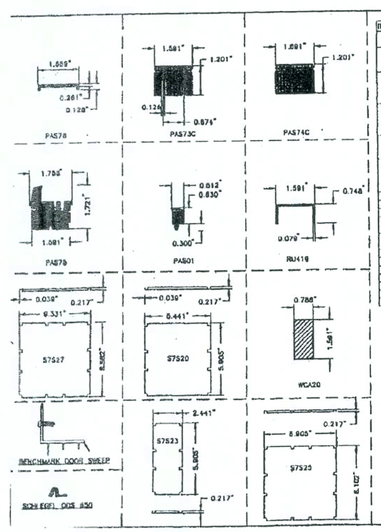
PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

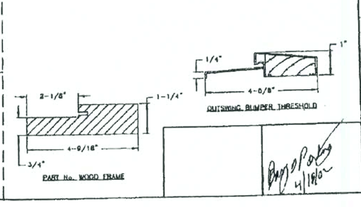
NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 02/09/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-03
SHEET 2 OF 4



ITEM	DESCRIPTION	PART No.	MATERIAL
1	DOOR SKIN (6 PANEL 6'-8")		SMC DPG THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")		SMC DPG THK FIBERGLASS
2	TOP RAIL	PAS74C TOP RAIL	PVC FOAM
		97223 ANCHOR (6'-8")	STEEL
		97520 ANCHOR (8'-0")	STEEL
3	HINGE STILE	PAS78 DOOR EXTENSION	RIGID PVC
		WCA20 TWO PCS (8'-0" ONLY)	WOOD (MAHOGANY)
		WCA20 (6'-0" ONLY)	WOOD (MAHOGANY)
		RU 418 (8'-0" ONLY)	STEEL (SS 41)
4	LOCK STILE	PAS79 DOOR EXTENSION	RIGID PVC
		WCA20 TWO PCS (8'-0" ONLY)	WOOD (MAHOGANY)
		WCA20 (6'-0" ONLY)	WOOD (MAHOGANY)
		RU 418 (8'-0" ONLY)	STEEL (SS 41)
		97223 ANCHOR (6'-0")	STEEL
		97527 ANCHOR (8'-0")	STEEL
5	BOTTOM RAIL	PAS73C BOTTOM RAIL	PVC FOAM
		DC-PS PLENUM	PVC CO-EXTRUSION
6	DOOR BOTTOM (INSWING)	BENCHMARK ADJ. DOOR SWEEP	PVC CO-EXTRUSION
		DOOR SWEEP	ALUMINUM / PVC
7	BUTT HINGE	4" x 4"	BRASS
8	LATCH LOCK	KWIKSET 200 SERIES	
9	DEAD BOLT	KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	WOOD
		DOS 650 WEATHERSTRIP	SCHLEGEL D-LEN
11	THRESHOLD (OUTSWING)	OUTSWING BUMPER	ALUMINUM / WOOD
		DOS 650 WEATHERSTRIP	SCHLEGEL D-LEN
14	FOAM CORE		POLYURETHANE FOAM CORE
15	JAMB		WOOD BLOCK
16	ANCHOR	#8 x 2-1/2" PAN SHS	STEEL
17	ANCHOR	3/16" x 4" PH TAPCON	STEEL
18	5/8" INSULATED GLASS CONSISTING OF: (2) LITES OF 1/8"		TEMP. GLASS + AIR SPACE
19	INTERNAL FRAME	PAS79	PVC FOAM
20	GLAZING BEAD	PAS01	PVC FOAM



PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

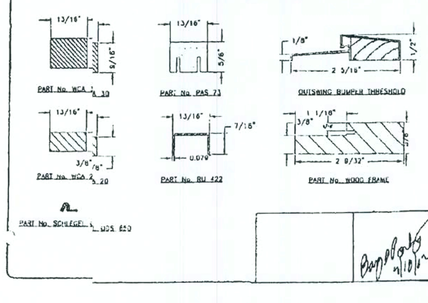
PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: PARTS LIST

NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 03/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-03
SHEET 4 OF 4

ITEM	DESCRIPTION	PART No.	MATERIAL
	DOOR SKIN (6 PANEL 6'-8")	SKD 67	SMC DPG THK FIBERGLASS
	DOOR SKIN (8 PANEL 8'-0")	SKD 64	SMC DPG THK FIBERGLASS
2	TOP RAIL (6'-8")	WCA 20	WOOD (MAHOGANY)
	TOP RAIL (8'-0")	WCA 20	WOOD (MAHOGANY)
3	HINGE STILE	WCA 20	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
4	LOCK STILE	WCA 20 (TWO PCS)	WOOD (MAHOGANY)
		RU 422	STEEL (SS 41)
5	BOTTOM RAIL	WCA 20 (TWO PCS)	WOOD (MAHOGANY)
		PAS 73	FOAM PVC EXTRUSION
7	BUTT HINGE	MAS 01	PVC
8	LATCH LOCK	4" x 4"	BRASS
9	DEAD BOLT	KWIKSET 200 SERIES	
		KWIKSET 660 SERIES	
10	DOOR FRAME	4-9/16" WOOD FRAME	WOOD
11	THRESHOLD (OUTSWING)	DOS 650 WEATHERSTRIP	SCHLEGEL D-LEN
		OUTSWING BUMPER	ALUMINUM / WOOD
		DOS 650 WEATHERSTRIP	SCHLEGEL D-LEN
14	FOAM CORE		POLYURETHANE FOAM CORE
15	JAMB		WOOD BLOCK
16	ANCHOR	#8 x 2-1/2" PAN SHS	STEEL
17	ANCHOR	3/16" x 4" PH TAPCON	STEEL



PLASTPRO, INC.
9 PEACH TREE HILL RD.
LAWNSTON, NJ 07039

PRODUCT: DISTINCTION SERIES SMC OUTSWING FIBERGLASS PATIO DOOR
PART OR ASSEMBLY: PARTS LIST

NO.	DATE	REVISIONS	BY

RW CONSULTING (813) 684-3831

DATE: 01/08/99
SCALE: N.T.S.
DWG. BY: R.P.P.
CHK. BY:
DRAWING NO.: 99-03
SHEET 4 OF 4

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09:03:55 02 JUN 2003