(BEDA42B) BEDFORD-A

REVISED: 02-08-12

BUILDING DATA

FLORIDA BUILDING CODE 2010 : RESIDENTIAL
FLORIDA BUILDING CODE 2010 : PLUMBING
FLORIDA BUILDING CODE 2010 : MECHANICAL
FLORIDA BUILDING CODE 2010 : FUEL GAS

NATIONAL ELECTRICAL CODE 2008

STRUCTURAL DESIGN PARAMETERS: ASCE 7-10 [PER FRC 2010 : SECTION R301.2.1.1, DESIGN CRITERIA]

CLASSIFICATION : 2

OCCUPANCY: RESIDENTIAL

BUILDING DESIGN: ENCLOSED

EXPOSURE: B SURFACE ROUGHNESS : B

INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18

RISK CATEGORY II

TWO STORY DESIGN:

BUILDING MEAN ROOF HEIGHT : 25 FEET, MAX.

DESIDN WIND SPEED:

Vult = 160 MPH (FRC 2010, R301.2.1.3)
Vasd = 124 MPH (FRC 2010, R301.2.1.3)

WOOD FRAMING INSPECTION

ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTION. (FBC 2010, SECTION R110.3)

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 2010, SECTION R318)

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 2010, SECTION R318.1.8)

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 2010, SECTION R612)

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 2010, SECTION R301.2.1.2)

JOB #: 9TM03301

DIV: JAX

PRODUCT REL. DATE: 03-02-09
REVISIONS :
03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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

9TM03301
JAX-9TM
LOT 33-1

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | COVER SHEET
BEDFORD
ELEVATION - A : BLOCK
DRAWN BY: SWE | GARAGE: LEFT
RELEASE DATE: 08-05-07

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Date Compliance ANS E.

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:
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11:05:43
PLOT DATE: 17 APR 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL FL_GSE

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GENERAL ELEVATION NOTES:

DMF = DECO MASONRY/STUCCO FINISH SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C926 AND C1063.

7/8" MIN. THICKNESS DMF OVER LATH/FRAME AND 1/2" MIN. THICKNESS OVER BLOCK.

DMF/STUCCO INSTALLED OVER PAPER-BACKED LATH AND HOUSEWRAP AT ALL EXTERIOR WOOD FRAME CONSTRUCTION.

EAVE AND GABLE OVERHANG 12" ALUM. FASCIA AND SOFFITS, U.N.O. PLUMB CUT WITH LEVEL RETURNS.

ATTIC VENTILATION CALCS:

VENTILATION OF ATTIC SPACE: BEDFORD

REQUIREMENTS:
TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/300 OF THE AREA OF SPACE VENTILATED. PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS BALANCED BETWEEN RIDGE AND EAVE.
(FBCR 2010, SECTION R806.2)

SOFFIT VENTILATION:
MIN. REQUIRED FREE AREA = 5.0 si / ft.

RIDGE VENTILIATION:
LOMANCO - 770-D ROOF LOUVER [OFF-RIDGE VENT] = 140 si

CALCULATIONS:
MAIN ROOF
1135 SF / 300 = 3.78 SF TOTAL VENTILATION REQUIRED
3.78 SF / 2 = 1.89 SF BALANCED RIDGE & SOFFIT

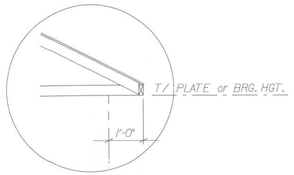
SOFFIT:
96 L.F. SOFFIT VENT @ 5.0 si/LF = 480.0 si
480.0 si / 144 si PER SF = 3.33 SF ACTUAL

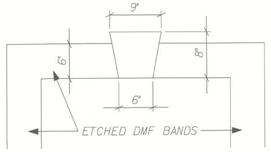
RIDGE:
1.89 SF * (140 si/144 si PER SF) = 1.84 UNITS or 2 UNITS REQ'D

GARAGE ROOF
440 SF / 300 = 1.46 SF TOTAL VENTILATION REQUIRED
1.46 SF / 2 = 0.73 SF BALANCED RIDGE & SOFFIT

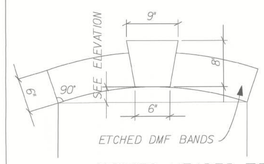
SOFFIT:
44 L.F. SOFFIT VENT @ 5.0 si/LF = 220.0 si
220.0 si / 144 si PER SF = 1.53 SF ACTUAL

RIDGE:
0.73 SF * (140 si/144 si PER SF) = 0.71 UNITS or 1 UNITS REQ'D

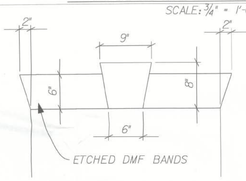




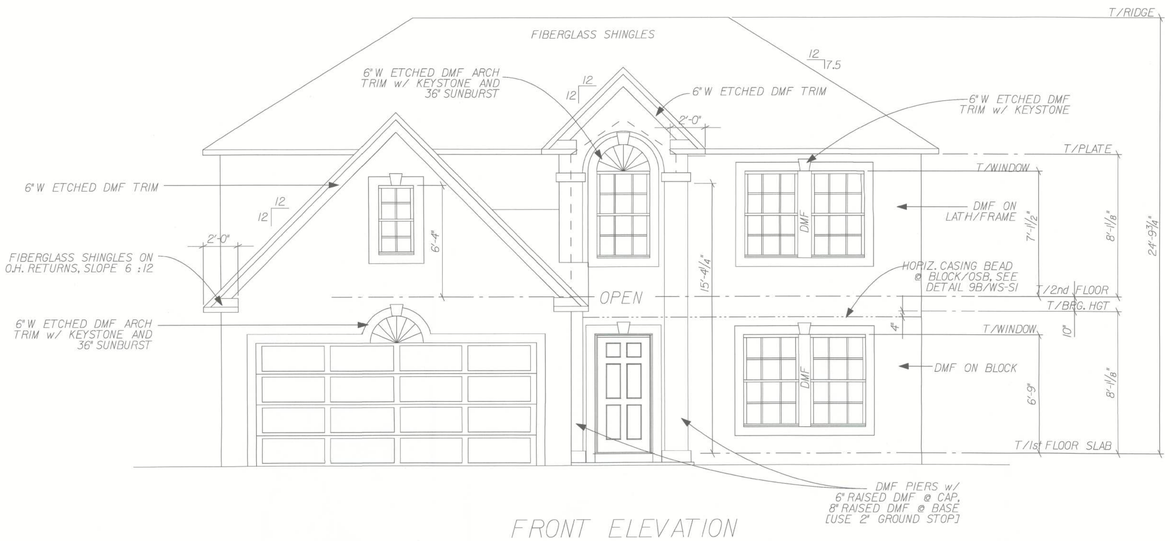
WRAPPED WINDOW TRIM
SCALE: 3/4" = 1'-0"



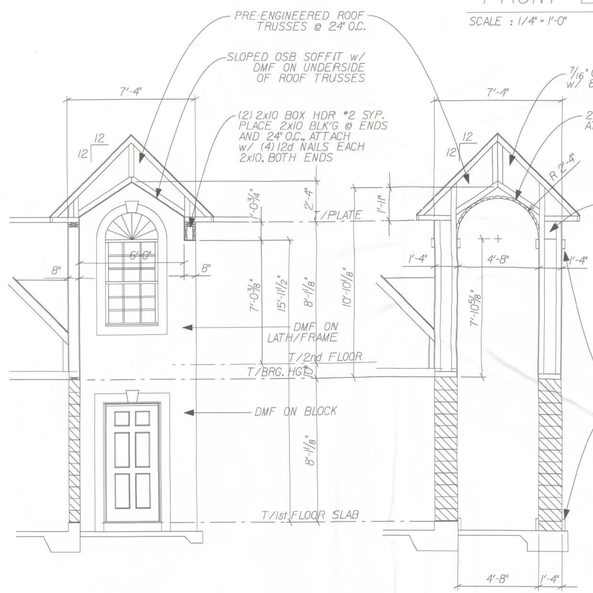
ARCHED HEADER TRIM
SCALE: 3/4" = 1'-0"



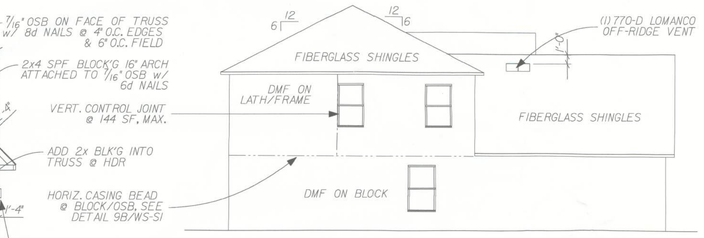
STRAIGHT HEADER TRIM
SCALE: 3/4" = 1'-0"



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



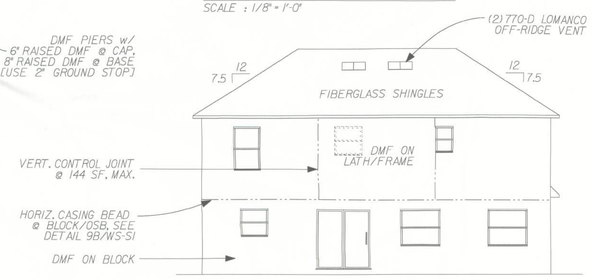
SECTION B-B



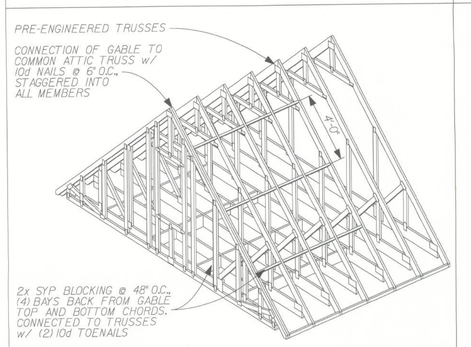
SECTION A-A

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

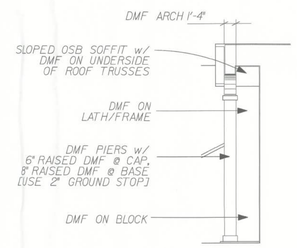
LEFT ELEVATION
SCALE : 1/8" = 1'-0"



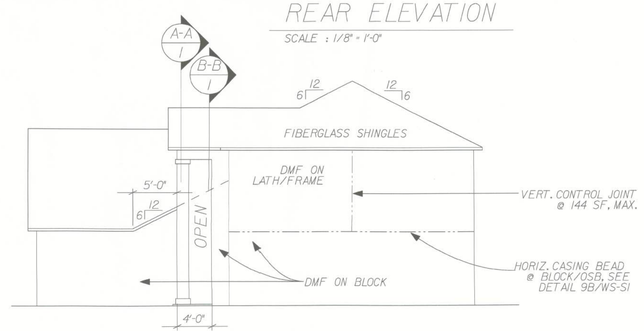
REAR ELEVATION
SCALE : 1/8" = 1'-0"



ATTIC TRUSS GABLE BRACING DETAIL
SCALE: N.T.S.



PORCH ELEVATION
SCALE : 1/8" = 1'-0"



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

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

PRODUCT	REL. DATE	REVISIONS :
	03-09-09	03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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

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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | EXT. ELEVATIONS

BEDFORD

ELEVATION - A : BLOCK

DRAWN BY: SWE | GARAGE: LEFT

RELEASE DATE: 09-05-07

TOMAS PONCE LICENSE NO. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:
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PLOT DATE: 17 APR 2012 11:05:47

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GENERAL FOUNDATION NOTES:

ALL FOOTING REBAR SHALL BE CONTINUOUS (2) #5 BARS GRADE 40 STEEL w/ 3" MIN. COVERAGE, U.N.O.

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

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

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.

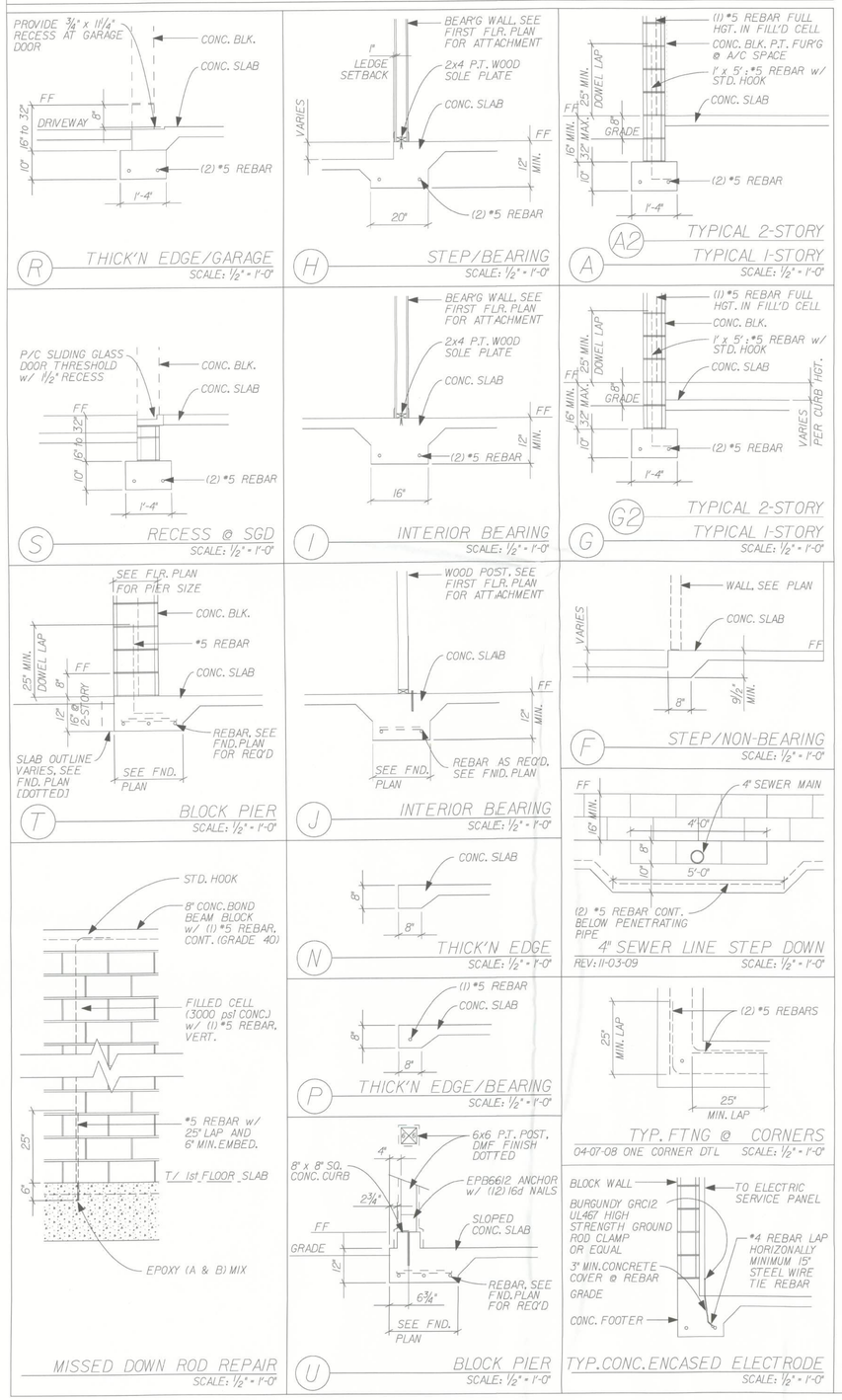
TYPICAL CONCRETE SLAB: 3 1/2" DEEP POURED 2500 psi CONCRETE SLAB w/ 6x6 10/ WIRE OR FIBER MESH ON VISQUEEN VAPOR BARRIER w/ ALL JOINTS TAPED OVER CLEAN COMPACTED (2000 psf, MIN.) TERMITE TREATED FILL.

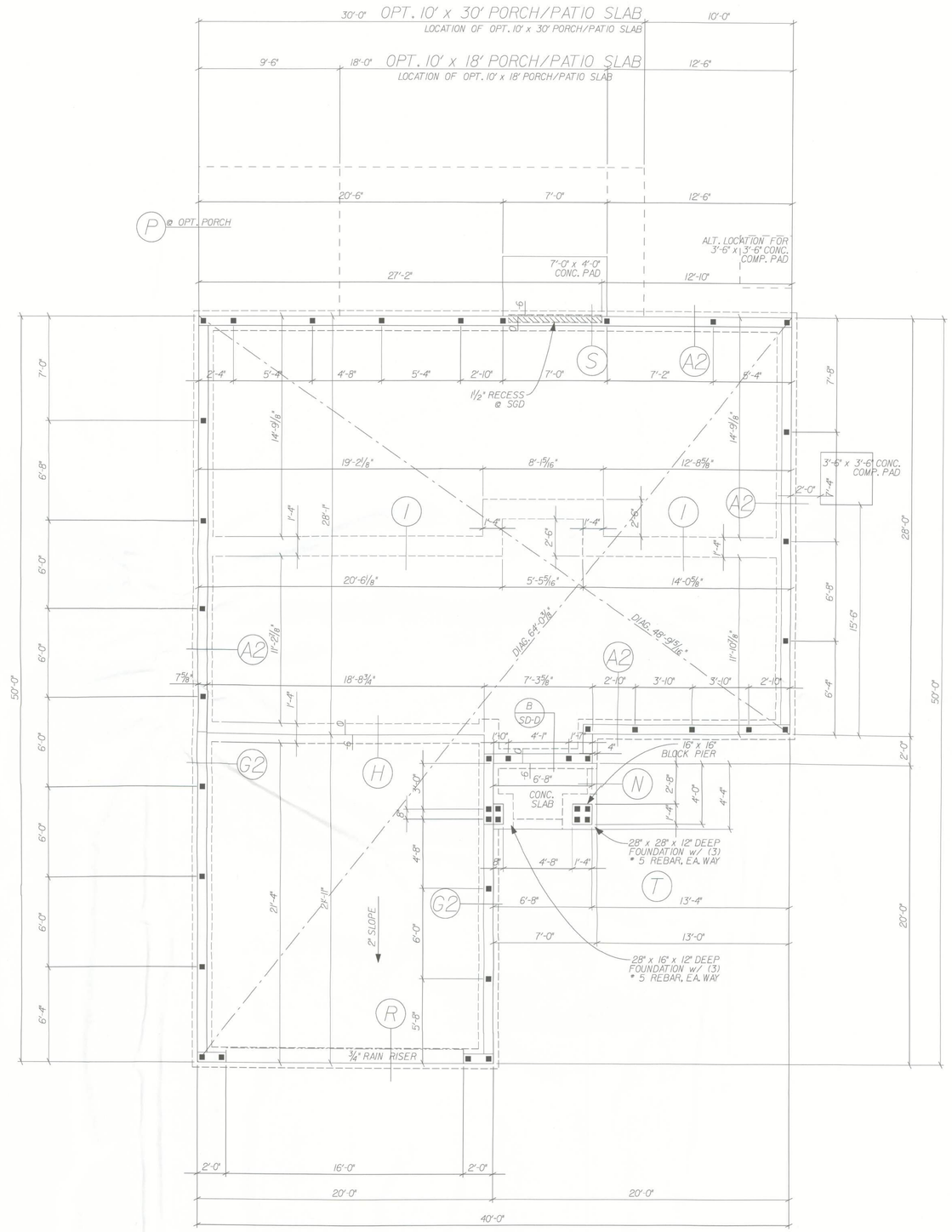
TYPICAL CONCRETE FOOTING: MIN. 2500 psi CONCRETE w/o FIBER MESH IN EITHER TRENCHED or FORM TYPE FOOTER.

FOR INSTALLATION OF GROUND ROD, SEE TYP. CONC. ENCASED ELECTRODE

SEE DRAWING * FP1 FOR UNDERGROUND PLUMBING AND MECH. CHASES FOR LOCATIONS

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





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

PRODUCT REL. DATE: 03-08-09
REVISIONS :
03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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4005 MARONDA WAY
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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | FOUNDATION PLAN
BEDFORD
ELEVATION - A & M : BLOCK
DRAWN BY: SWE | GARAGE: LEFT
RELEASE DATE: 05-07-08

TOMAS PONCE LICENSED PROFESSIONAL ENGINEER STATE OF FLORIDA

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:
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PLOT DATE: 17 APR 2012 11:05:55

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

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GENERAL FIRST FLOOR NOTES:

REV.: 04-06-09

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

EXTERIOR OPENINGS DIMENSIONS ARE TO FACE OF MASONRY OPENING.

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

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

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

INTERIOR NON-LOAD BEARING WALL TO BE NOMINAL 3 5/8" MTL. STUD or 2x4 WD. STUD @ 24" O.C.

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/ 3/8" AGGREGATE. FOR REINFORCED PRECAST LINTELS, USE GRADE 40 REINFORCING STEEL.

EXTERIOR MASONRY - ASTM C90 CMU UNITS LAYED IN A RUNNING BOND PATTERN USING ASTM C270 TYPE 'S' MORTAR

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

PROVIDE SAFETY GLAZING AT: T
- 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.

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

OPENING PRESSURES:

NOTE: OPEN'G PRESSURES LISTED ARE IN TERMS OF Vasd

MARK	PRESSURES Vult = 160 MPH
A	+27.6 / -30.0
B	+23.3 / -26.4
C	+27.6 / -37.0
D	+24.3 / -26.7
E	+24.7 / -28.0

HEADERS:

rev. 05-21-11

MARK	HEADER SIZE	DESCRIPTION	OPN'G
1	(2) 2x8 HDR	(1) JACK, (1) KING STUD EA. SIDE	3'-3"
2	(2) 2x10 HDR	(1) JACK, (1) KING STUD EA. SIDE	6'-3"
3	(2) 2x8 HDR	(2) JACK, (1) KING STUD EA. SIDE	5'-2"
4	(2) 2x8 HDR	(2) JACK, (2) KING STUD EA. SIDE	5'-2"

STRUCTURAL WALL TYPES:

REV. 04-30-09 ; RENAMED WALL TYPES

MARK	WALL DESCRIPTION
EB	EXTERIOR 7 5/8" CONCRETE BLOCK WALL w/ P.T. FURRING STRIPS @ A/C AREAS TOTAL WIDTH @ A/C = 8 3/8"
~~EF~~	~~EXTERIOR FRAME WALL TO BE 2x4 #2 SPF. WOOD STUDS @ 16" O.C. w/ RT3A @ BOTTOM AND RT5 @ TOP OF EACH STUD. ATTACH w/ (1) FA3 @ EACH SIDE AND @ 24" O.C. ATTACH 7/16" OSB w/ 8d RING SHANK NAIL @ 3" O.C. EDGES AND 6" O.C. FIELD~~
BS	INTERIOR SUPPORT BEARING WALL TO BE 2x4 #2 SYP. WOOD STUDS @ 16" O.C. ATTACH w/ 1/2" x 5 1/4" WEDGE ANCHOR w/ 2" x 2" x 3/16" SQ. WASHER @ 48" O.C.
SH	INTERIOR SHEAR WALL TO BE 2x4 #2 SYP. WOOD STUDS @ 16" O.C. w/ RT3A @ BOTTOM / RT5 @ TOP EACH STUD. ATTACH w/ 1/2" x 5 1/4" WEDGE ANCHOR w/ 2" x 2" x 3/16" SQ. WASHER @ 24" O.C. AND (1) HTT22 TENSION TIE @ BOTH END OF WALL. ATTACH w/ (24) 16d NAILS TO DOUBLE STUD AND (1) 3/4" ANCHOR BOLT. ATTACH 1/2" DRYWALL w/ #6 x 1 1/4" SCREW @ 4" O.C. EDGES AND 12" O.C. FIELD. SEE DETAIL B/WS-S1 MSTA30 CONNECTION

EXTERIOR DOORS/WINDOWS:

SEE MANUFACTURERS DETAILS FOR INSTALLATION AND NUMBER OF FASTENERS PER WINDOW/DOOR

DOORS:

REVISED: 04-22-09

DOOR TYPE	SIZE	MASONRY OPN'G
2-0 [IN-SWING]	~~25 1/2" x 80 5/8"~~	~~29" x 82 3/8"~~
2-8 [IN-SWING]	33 1/2" x 80 5/8"	37" x 82 3/8"
3-0 [IN-SWING]	37 1/2" x 82"	41" x 82 3/8"
3-0 w/(1) SL [IN-SWING]	51 1/8" x 82"	~~54 5/8" x 82 3/8"~~
3-0 w/(2) SL [IN-SWING]	64 1/2" x 82"	~~68" x 82 3/8"~~
6068 SGD	72" x 80"	75 1/2" x 81 3/4"
6080 SGD	72" x 96"	~~75 1/2" x 97 3/4"~~
8'-0" x 7'-0" GARAGE DR	96" x 84"	~~96" x 84"~~
16'-0" x 7'-0" GARAGE DOOR	192" x 84"	192" x 84"

WINDOWS:

WINDOW TYPE	SIZE	MASONRY OPN'G
~~IH2 SH~~	~~26 1/2" x 26"~~	~~27 1/4" x 26"~~
IH3 SH	~~26 1/2" x 38 3/8"~~	~~27 1/4" x 38 3/8"~~
IH4 SH	~~26 1/2" x 50 5/8"~~	~~27 1/4" x 50 5/8"~~
IH5 SH	26 1/2" x 63"	27 1/4" x 63"
23 SH	37" x 38 3/8"	37 3/4" x 38 3/8"
24 SH	~~37" x 50 5/8"~~	~~37 3/4" x 50 5/8"~~
25 SH	37" x 63"	37 3/4" x 63"
35 SH	~~53 3/4" x 63"~~	~~53 3/8" x 63"~~

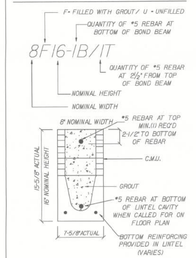
LINTEL SCHEDULE : Cast-Crete

MATERIALS:

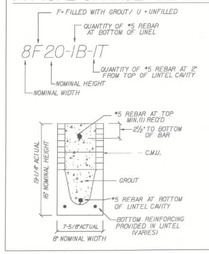
1. f'c PRECAST LINTELS = 3500 psi
2. f'c PRESTRESSED LINTELS = 6000 psi
3. f'c GROUT = 3000 psi w/ MAXIMUM 3/8" AGGREGATE
4. CONCRETE MASONRY UNITS (CMU) PER ASTM C90 w/ MINIMUM NET AREA COMPRESSIVE STRENGTH = 1900 psi
5. REBAR PROVIDED IN PRECAST LINTEL PER ASTM A615 GR60. FIELD REBAR PER ASTM A615 GR40 or GR60
6. PRESTRESSING STAND PER ASTM A416 GRADE 270 LOW RELAXATION.
7. 7/32" WIRE PER ASTM A510
8. MORTAR PER ASTM C270 TYPE M or S

THE SPECIFIC LINTELS ON THIS SHEET 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 CAPACITY THAN THE ACTUAL GRAVITY AND UPLIFT LOADS, THAT ARE LISTED FOR THIS HOUSE SPECIFIC LINTEL SCHEDULE

TYPICAL DESIGNATION



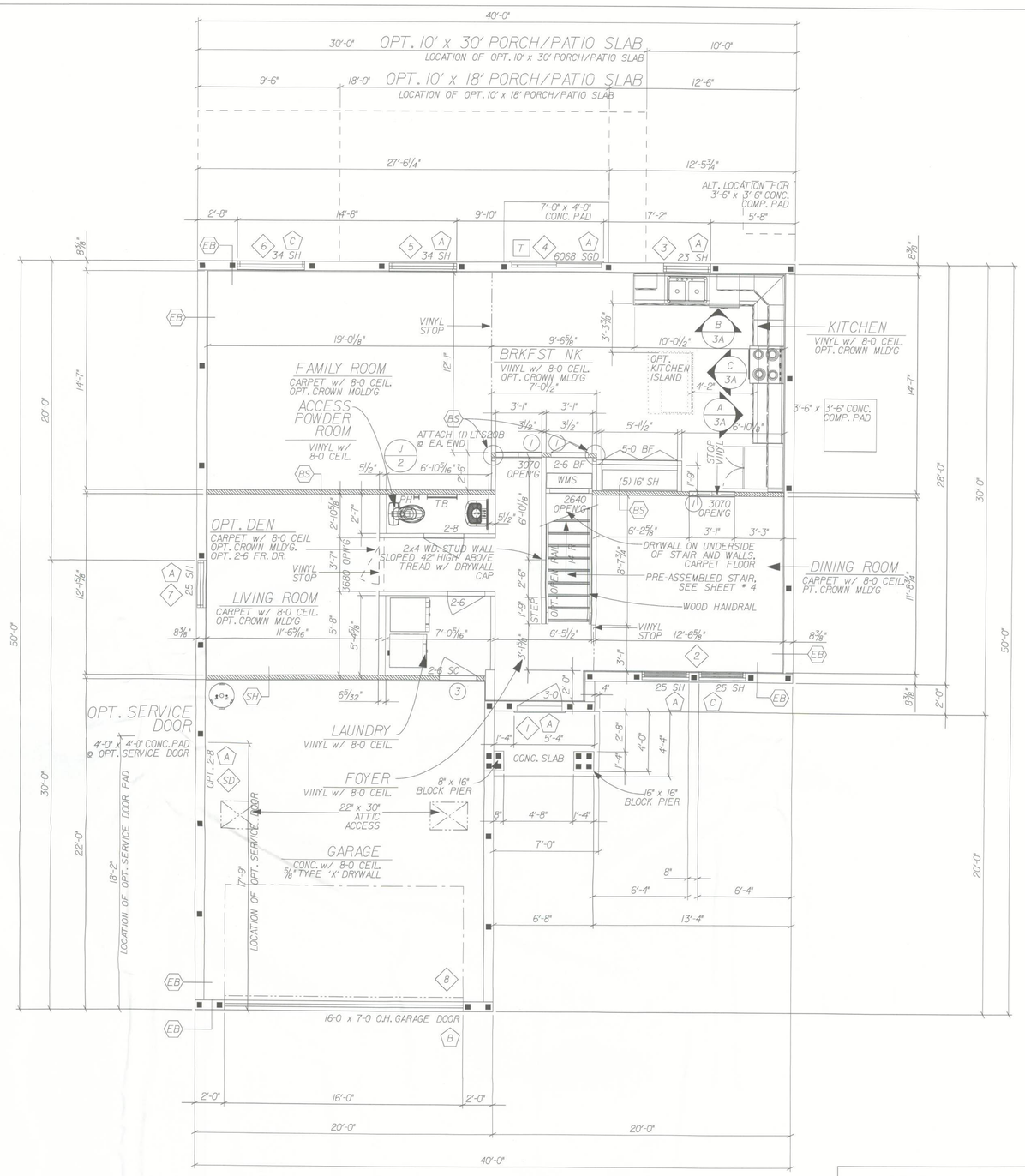
TYPICAL GARAGE DESIGNATION



LINTEL SCHEDULE

* BASED ON MOMENT AND SHEAR TABLE w/ 8% REDUCTION FOR GRADE 40 REBAR (IF REDUCTION IS REQ'D)

MARK	LENGTH	APPLIED LOADS GRAVITY	APPLIED LOADS UPLIFT	TYPE — CAST-CRETE PRECAST	SAFE LOADS GRAVITY	SAFE LOADS UPLIFT	COMMENTS
1	4'-6"	850	192	8RF14-IB/IT	2992	2525	FOYER RECESSED
				PSbox8-14 *5-IT/*5-IB [18ga]	5336	4388	
2	8'-6"	1829	723	8FI6-IB/IT	2632	1634	DINING
				PSbox8-16 *5-IT/*5-IB [18ga]	2230	2173	
3	4'-6"	1923	723	8FI6-IB/IT	2931	2724	KITCHEN
				PSbox8-16 *5-IT/*5-IB [18ga]	5069	4720	
4	7'-6"	1438	192	8FI6-IB/IT	2632	1634	BREAKFAST NK
				PSbox8-16 *5-IT/*5-IB [18ga]	2547	2458	
5	5'-10"	1438	192	8FI6-IB/IT	1631	2093	FAMILY ROOM
				PSbox8-16 *5-IT/*5-IB [18ga]	3725	3106	
6	5'-10"	1923	723	8FI6-IB/IT	1631	2093	FAMILY ROOM
				PSbox8-16 *5-IT/*5-IB [18ga]	3725	3106	
7	4'-6"	145	127	8UI6-IB/IT	1599	2724	LIVING ROOM
				PSbox8-16 *5-IT/*5-IB [18ga]	5069	4720	
8	17'-4"	200	150	8F20-IB/IT PRESTRESSED	1490*	520	GARAGE
				PSbox8-20 *5-IT/*5-IB [16ga]	1236	656	



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

SQUARE FOOTAGE:

LOCATION	SQ. FT.
1ST FLOOR A/C	1133
2ND FLOOR A/C	1266
TOTAL A/C	2399
GARAGE	440
ENTRY	27
TOTAL	2866

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

PRODUCT REL. DATE 03-02-09
REVISIONS :
03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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

FLORIDA:
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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | FIRST FLOOR PLAN

BEDFORD

ELEVATION - A & M: BLOCK

DRAWN BY: SWE | GARAGE: LEFT

RELEASE DATE: 09-05-07

TOMAS PONCE
LICENSED
No. 50068
STATE OF FLORIDA
PROFESSIONAL ENGINEER

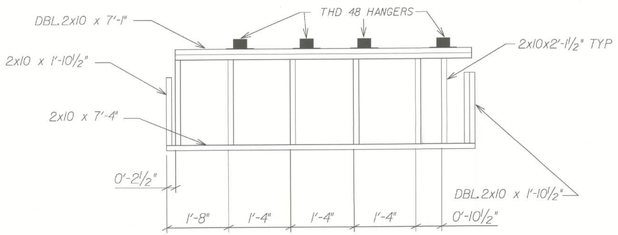
8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:
3

g:\fl_gse\houses\bedford\north_lot\130x_bedam_pln1-1.003 , 11:05:58

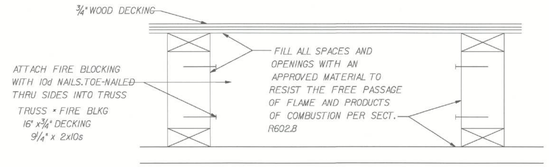
PLOT DATE: 17 APR 2012

...\130x_bedam_pln1-1.003 Apr. 17, 2012 11:05:57



1 FRAMING @ FRONT OF HOUSE

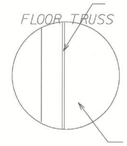
FIELD BUILD AND INSTALL
N.T.S.



FIRE BLOCKING-TRUSS FLOOR

REVISED 05-05-06
REV. NOTE @ OPENINGS

SCALE: N.T.S.



DRAFTSTOPPING DETAIL

FLOOR FRAMING:

ITEM	DESCRIPTION
RIM BRD.	2 x 10
FA - FH	9 1/4" WOOD TRUSS

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:

AS PER BCSI-B7: TEMPORARY AND PERMANENT BRACING FOR PARALLEL CHORD TRUSSES FROM BCSI 2008 EDITION, STRONGBACKS ARE NOT TO BE INSTALLED UNLESS OTHERWISE NOTED ON THE FLOOR TRUSS LAYOUT.

ALL FLOOR DECK PANELS UP TO 30': KEEP LINE ANGLE AT CHANING 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.

FLOOR FRAMING NOTES:

9 1/4" DEEP WOOD FLOOR TRUSSES @ 24" O.C., U.N.O.

2x10 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/480
TL = L/360

ROOF LOADS ASSUMED TO BE BEARING ON PERIMETER WALLS ONLY.

FLOOR SHEATHING:
3/4" T&G WOOD DECKING GLUED & NAILED w/ 7d x 2 1/4" SCREW SHANK NAIL @ 4" O.C. EDGES AND 8" O.C. FIELD (TYP.) or 16ga. x 1 3/4" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD. SEE SHEET * FOR GLUE MUST BE INCLUDED IN THE GROOVE OF EACH PANEL AND BTWN SHEATHING AND TRUSSES.

FLOOR CONNECTORS:

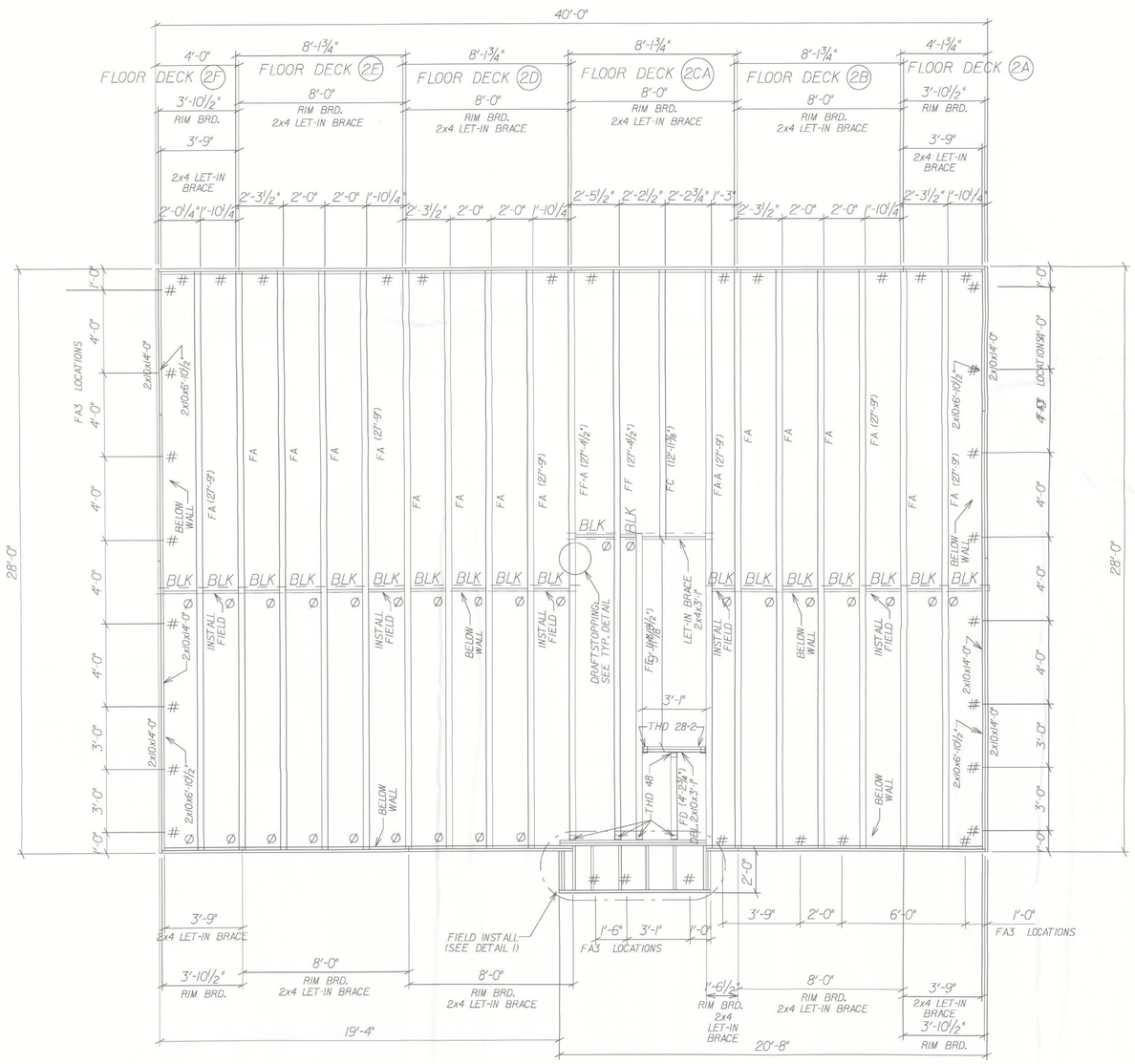
FA3, RIM BOARD CONNECTION DETAIL 3/WS-S1 AND 5/WS-S2

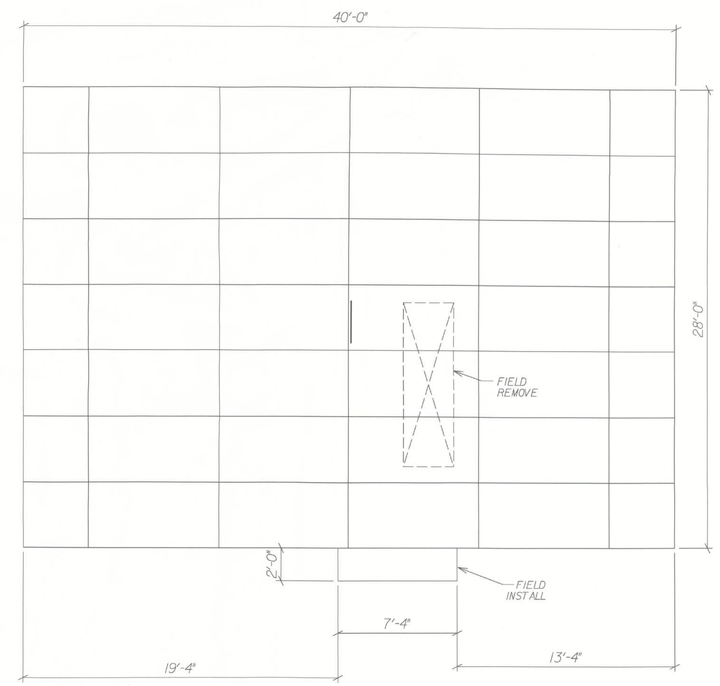
Ø TYPICAL ATTACHMENT TO BEARING WALL w/ (2) 10d NAILS, TOE-NAILED.

BLK SOLID WOOD FIRE BLOCKING SEE DETAIL.

* LPTA, SEE DETAIL SHEET 4/WS-S1.

& TA14, SEE DETAIL SHEET 6/WS-S1.





SECOND FLOOR SHEATHING LAYOUT

43 SHEETS - 4x8 SHEATHING

PRODUCT REL DATE

REVISIONS :

03/15/12 REV. PER 2010 FBC RESIDENTIAL

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301.2(4) OF THE FLORIDA BUILDING CODE, 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS, EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED

Vult = 160 MPH
Vasd = 124 MPH

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AMERICANA | FRAMING PLAN
BEDFORD
ELEVATION A, M, & S
DRAWN BY: J. PITCOCK | GARAGE: LEFT
RELEASE DATE: 03/27/2009

11:04:45

TOMAS PONCE LICENSE NO. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:
FT2

PLOT DATE: 17 APR 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

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GENERAL SECOND FLOOR NOTES:

REV.: 05-22-09

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

EXTERIOR OPENINGS DIMENSIONS ARE TO FACE OF ROUGH OPENING.

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

ALL BEDROOM WINDOWS ARE CONSIDERED EGRESS, U.N.O.

INTERIOR NON-LOAD BEARING WALL TO BE NOMINAL 3 5/8" MTL STUD or 2x4 WD. STUD @ 24" O.C.

PROVIDE SAFETY GLAZING AT: [T]
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.

ALL OPERABLE WINDOWS THAT ARE LOCATED MORE THAN 72" ABOVE FINISH GRADE, THE LOWEST PART OF CLEAR OPENING OF WINDOW SHALL BE A MIN. OF 24" A.F.F. OF ROOM.

WINDOWS:

SEE MANUFACTURERS DETAILS FOR INSTALLATION AND NUMBER OF FASTENERS PER WINDOW

OPENING	SIZE	ROUGH OPN'G
2024 SH	~~23 1/2" x 27 1/2"~~	23 3/4" x 27 3/4"
2030 SH	23 1/2" x 35 1/2"	23 3/4" x 35 3/4"
2040 SH	~~23 1/2" x 47 1/2"~~	~~23 3/4" x 47 3/4"~~
2050 SH	~~23 1/2" x 59 1/2"~~	~~23 3/4" x 59 3/4"~~
3030 SH	35 1/2" x 35 1/2"	35 3/4" x 35 3/4"
3040 SH	~~35 1/2" x 47 1/2"~~	~~35 3/4" x 47 3/4"~~
3050 SH	35 1/2" x 59 1/2"	35 3/4" x 59 3/4"
4050 SH	~~47 1/2" x 59 1/2"~~	47 3/4" x 59 3/4"

OPEN'G PRESSURES:

MARK	PRESSURES Vult = 160 MPH
A	+27.6 / -30.0
B	+23.3 / -26.4
C	+27.6 / -37.0
D	+24.3 / -26.7

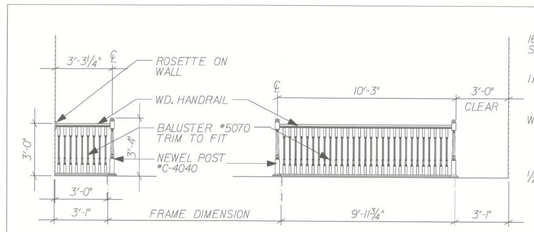
WALL TYPES:

MARK	WALL DESCRIPTION
E2	EXTERIOR FRAME WALL TO BE 2x4 #2 SYP. WOOD STUDS @ 16" O.C. ATTACH 7/16" OSB w/ 8d NAIL @ 4" O.C. EDGES AND 6" O.C. FIELD or 16ga. x 1 1/2" STAPLE @ 2" O.C. EDGE AND 4" O.C. FIELD TOTAL WIDTH = 4"

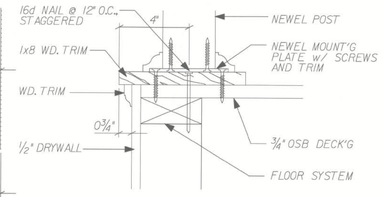
HEADERS:

REV.: 05-31-11

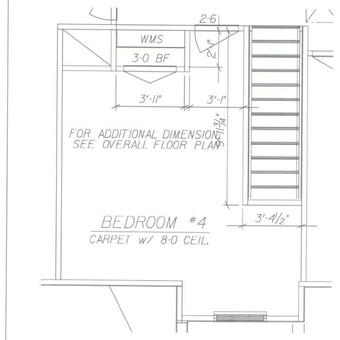
MARK	HEADER SIZE
4	(2) 2x8
8	(2) 2x10



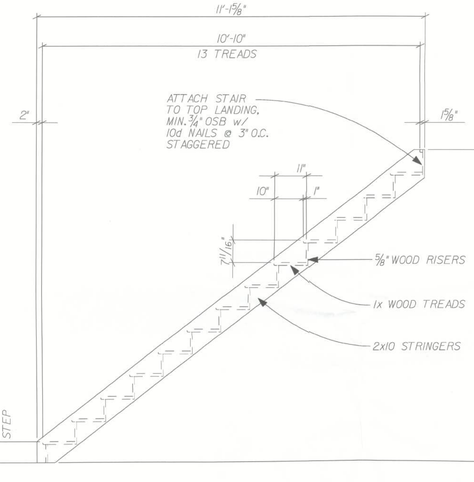
OPT. OPEN HANDRAIL @ FLEX-SPACE



NEWEL POST ATTACHMENT



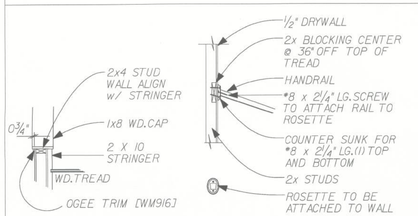
OPTIONAL BEDROOM #4



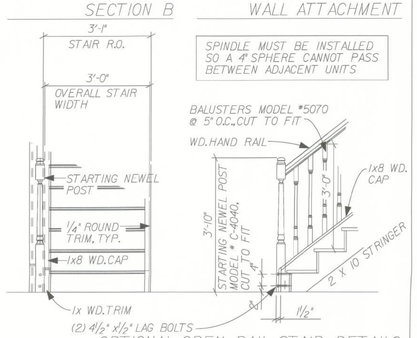
STAIR DESIGN LIVE LOAD (LL) = 40 PSF
SINGLE CONCENTRATED LIVE LOAD TO GUARDRAIL/HANDRAIL = 200 PSF

PRE-ASSEMBLED STAIR : 10" TREAD [9 1/4" FRMG @ 8'-0 1/2"]

03-15-12 PER CODE — SCALE: 1/2" = 1'-0"



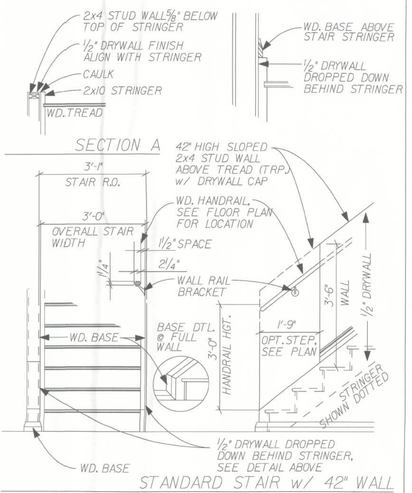
SECTION B — WALL ATTACHMENT



SPINDLE MUST BE INSTALLED SO A 4" SPHERE CANNOT PASS BETWEEN ADJACENT UNITS

OPTIONAL OPEN RAIL STAIR DETAILS

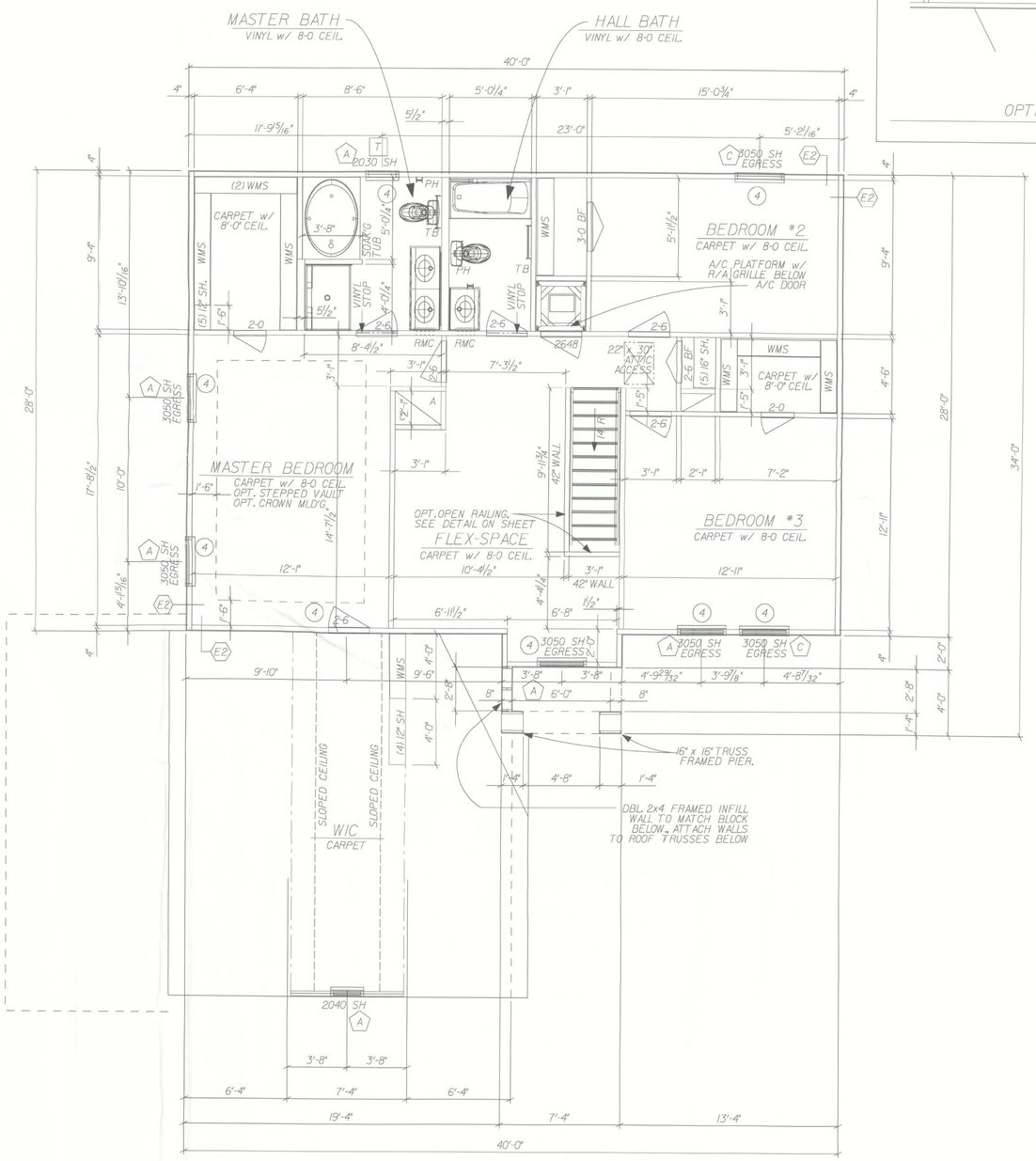
03-11-10 ADDED OGEE TRIM — SCALE: 1/2" = 1'-0"



SECTION A

STANDARD STAIR w/ 42" WALL

REVISED 11-12-07 - WOOD BASE ABOVE STRINGER (TYP.) SCALE: 1/2" = 1'-0"



SECOND FLOOR PLAN

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

PRODUCT REL. DATE 03-02-09 — REVISIONS: 03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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

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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

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AMERICANA | SECOND FLOOR PLAN

BEDFORD

ELEV. - A & M

GARAGE: LEFT

DRAWN BY: SWE — RELEASE DATE: 05-07-08

11.06.01

TOMAS PONCE — LICENSE No. 50068 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET: 4

PLOT DATE: 17 APR 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL — FL_GSE

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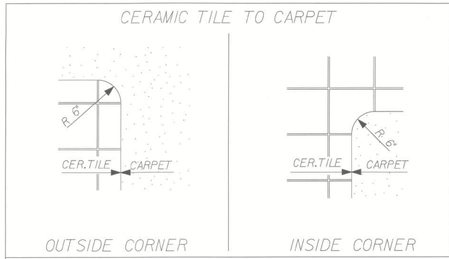
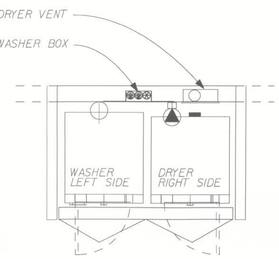


FLOOR EDGE CORNER DETAIL

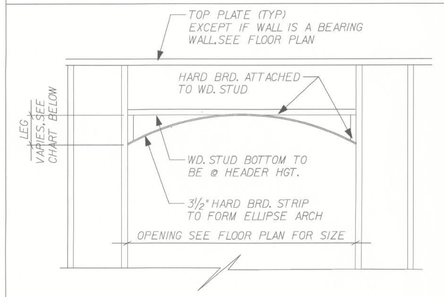
SCALE : 1/2" = 1'-0"



WALL CONFIGUTAION VARIES PER MODEL, LAUNDRY CLOSET SHOWN

STANDARD WASHER / DRYER CONFIGURATION

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

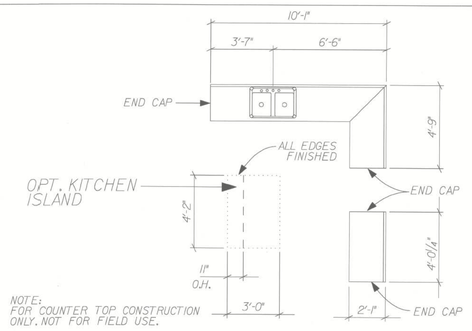


OPENING	LEGS
2'-0" - 3'-1"	4"
3'-2 "- 4'-0"	5 1/2"
4'-1"- 5'-0"	6 1/2"
5'-1" - 7'-0"	8"
7'-1 "- 9'-0"	9 1/2"
9'-1"- 12'-0"	12"

INTERIOR ELLIPSE ARCH

REV.: 01-22-10 - WOOD STUDS

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



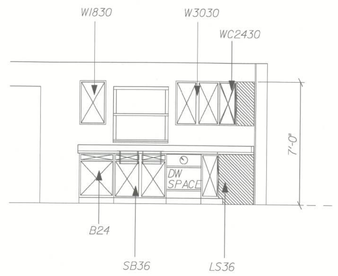
NOTE:
FOR COUNTER TOP CONSTRUCTION ONLY. NOT FOR FIELD USE.

KITCHEN COUNTERTOP

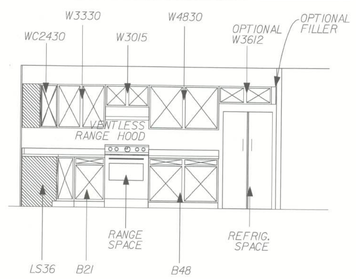
NOTE:
ON REAR FACE OF ISLAND CABINETS INSTALL 1/4" VENEER PANEL OVER 1/4" PLYWOOD BACKER w/ (2) OUTSIDE CORNER PIECES.

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

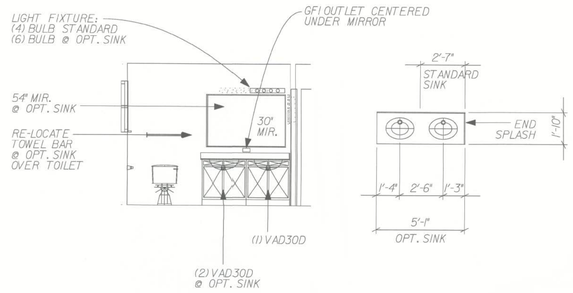
C. KITCHEN ELEVATION



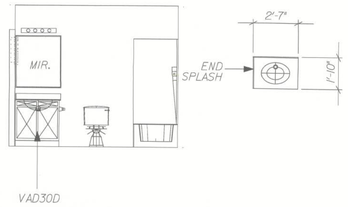
B. KITCHEN ELEVATION



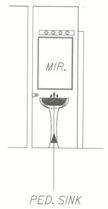
A. KITCHEN ELEVATION



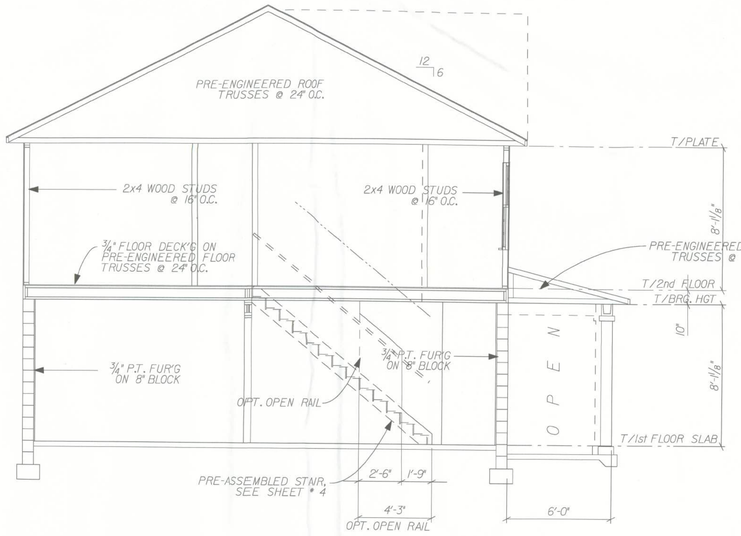
MASTER BATHROOM



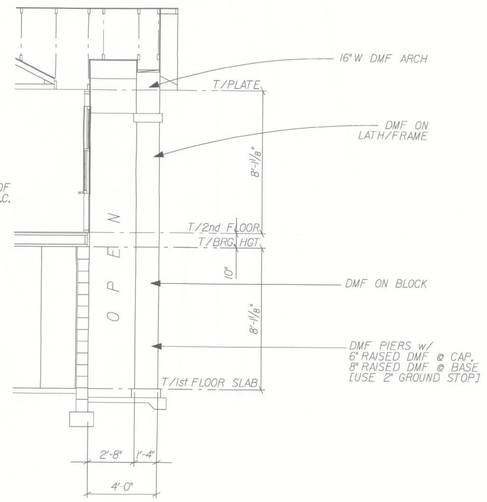
HALL BATHROOM



POWDER ROOM

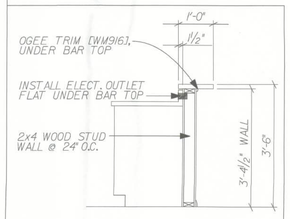


SECTION @ ELEV. V



PART. SECT @ ELEV. A

ELEV. M SIMILAR w/ STONE



DETAIL @ BAR TOP

REV.: 08-29-11

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

PRODUCT REL. DATE	03.02.09
05-03-10	ADD KITCHEN ISLAND OPTION
07-19-10	REV. TIER 2 : VANITY/REC. LIGHTS
03-15-12	REV. PER 2010 FBC : RESIDENTIAL

REVISIONS :

Maronda Homes

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

FLORIDA:
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DESIGNED WIND SPEED

Vult = 160 MPH
Vasd = 124 MPH

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AMERICANA | SECTION/INT. ELEV.

BEDFORD

ELEVATION : BLOCK

DRAWN BY: sWe | GARAGE: LEFT

RELEASE DATE: 05-06-08

11:06:02

TOMAS PONCE LICENSE NO. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/15/12

Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:

5A

PLOT DATE: 17 APR 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

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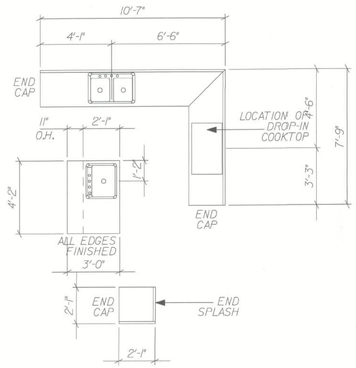
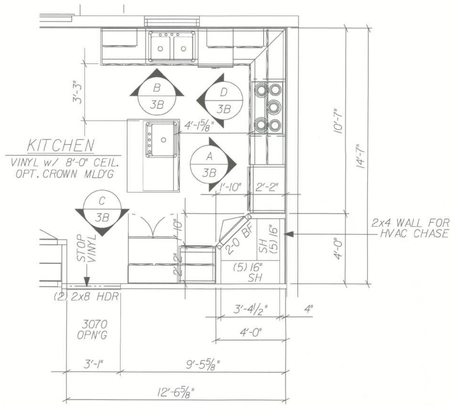
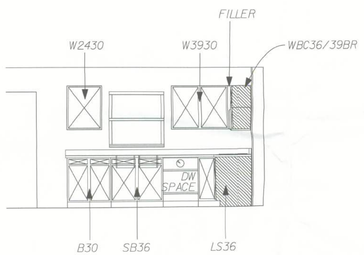
OPTIONAL GOURMET KITCHEN - FIRST FLOOR



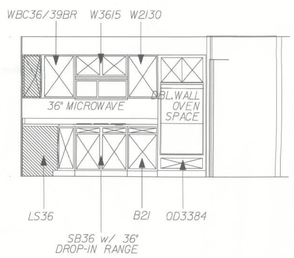
KITCHEN COUNTERTOP



GOURMET KITCHEN PLAN



B. KITCHEN ELEVATION

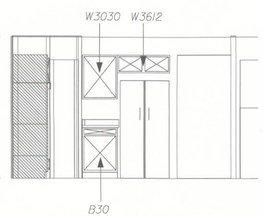


A. KITCHEN ELEVATION

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

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

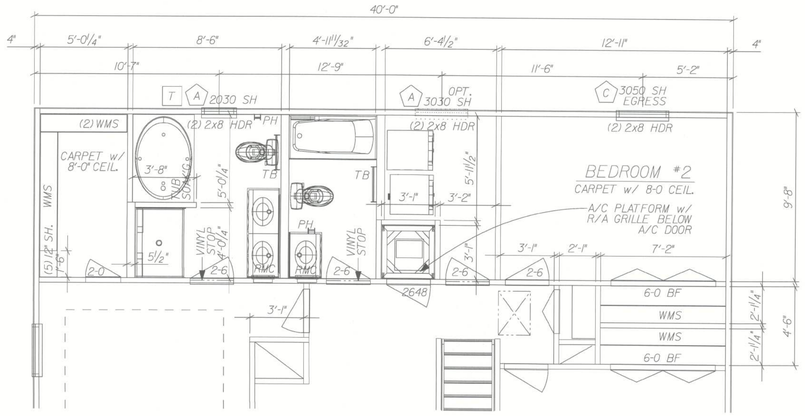
D. KITCHEN ELEVATION



C. KITCHEN ELEVATION

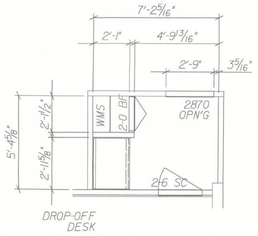
OPTIONAL LAUNDRY - SECOND FLOOR

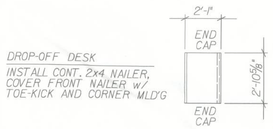
NOTE: THIS OPTION MUST BE CHOSEN WITH OPT. BEDROOM - FIRST FLOOR or OPT. DROP-OFF DESK - FIRST FLOOR



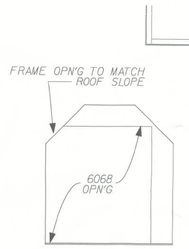
OPT. DROP-OFF DESK - FIRST FLOOR

NOTE: THIS OPTION MUST BE CHOSEN WITH OPT. LAUNDRY - SECOND FLOOR. NOT TO BE USED WITH OPT. BEDROOM - FIRST FLOOR -or- FIRST FLOOR STANDARD LAUNDRY

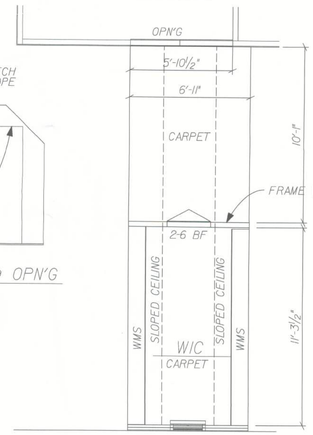




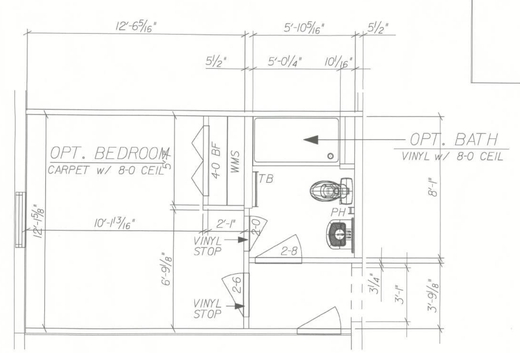
OPT. MASTER BEDROOM ALCOVE - 2ND FLR

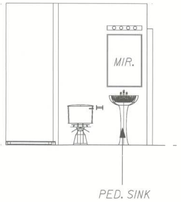


ELEVATION @ OPN'G



OPTIONAL BEDROOM - FIRST FLOOR





OPT. BED BATH

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B. ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED

Vult = 160 MPH
Vasd = 124 MPH

PRODUCT REL. DATE	03-02-09
REVISIONS :	03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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

OPTIONS

AMERICANA

BEDFORD

ELEVATION : BLOCK

DRAWN BY: SWe | GARAGE: LEFT | RELEASE DATE: 06-16-11

TOMAS PONCE LICENSED PROFESSIONAL ENGINEER No. 50068 STATE OF FLORIDA

AUG 15 2012

Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:

3B

g:\fl_gse\houses\bedford\arch_left\160x_bed_opt-1.03b

M.06603

PLOT DATE: 17 APR 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

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USP HARDWARE - 160%

REVISED 04-30-10

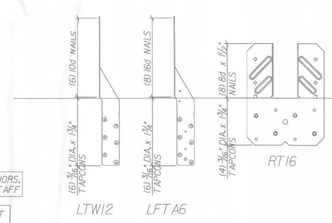
MARK	PRODUCT CODE #	MAN.	FASTENERS	UPLIFT
N	16d NAILS -(2) TOP CHORD NAILS / (2) BOTTOM CHORD NAILS			
1	HUS 26	USP	(14) 16d HEADER (6) 16d TRUSS	1925
2	HUS 28	USP	(22) 16d HEADER (8) 16d TRUSS	2570
3	JUS 26	USP	(4) 10d HEADER (4) 10d TRUSS	1115
4	MP6F	USP	HEADER/STUD (6) 8d TYPE 1 JOIST/PLATE (6) 8d	605
5	MPAI & MPAIF	USP	HEADER/STUD (6) 8d JOIST/PLATE (6) 8d	680/795
6	SKH 26 L/R	USP	HEADER (6) 16d JACK (6) 10d X 1 1/2"	1085
7	SKHH26 L/R	USP	HEADER (18) 16d JACK (12) 10d X 1 1/2"	2190
8	SUH 26	USP	HEADER (6) 16d JACK (4) 10d X 1 1/2"	725
9	SUH 28	USP	HEADER (8) 16d JACK (6) 10d X 1 1/2"	800
10	THD26	USP	HEADER (18) 16d TRUSS (12) 10d X 1 1/2"	2170
11	THD28	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2330
12	THD28-2	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2595
13	THDH28-3	USP	HEADER (36) 16d TRUSS (16) 10d X 1 1/2"	2665
14	THD48	USP	HEADER (28) 16d TRUSS (16) 10d X 1 1/2"	2595
15	THJ 26	CLEVELAND	HIP(7)10d-HEADER(16)16d JACK (5) 10d x1 1/2"	1010
16	(2) MTW 12	USP	(14) 10d (14) 10d x 1-1/2	2390
17	(2) MUGT15	USP	5/8" ANCHOR BOLT 3 3/4" EMBEDDED GIRDER (22) 10d X 1 1/2"	8330
18	(2) RT16-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1 1/2"	2320
19	(2) MSTA24	USP	(18) 10d (18) 10d	3280
20				
21	C44	USP	POST (6) 16d BEAM (6) 10d X 1 1/2"	1000
22	FA3	USP	TOP (4) 10d X 1 1/2" SIDE (2) 10d X 1 1/2"	1155
23	HC520 CLIP	USP	PLATES (11) 8d STUD (6) 8d	445
24	HHCP2 CRNR CLIP	USP	TRUSS (10) 10d X 1 1/2" PLATE (10) 10d X 1 1/2"	800
25	HTA 20 ANCHOR	USP	(14) 10d X 1 1/2"	1615
26	HTA 20(2) ANCHOR	USP	(13) 10d X 1 1/2"	3230
27	HTW24	USP	(20) 10d	1530
28	HJC26-SK60	USP	HEADER (16) 16d. HIP (5) 10d JACK (7) 10d	1840
29	THD2I0-2	USP	HEADER (36) 16d TRUSS (20) 10d X 1 1/2"	3810
30	KST237 STRP ANC.	USP	(34) 16d	5395
31	LPTA	USP	FACE OF GABLE W/ 2x4 (11) 10d x 1 1/2"	1250
32	LSTA36	USP	(22) 10d X 1 1/2"	1640
33	LTWI2	USP	(12) 10d	775
34	LTS20B STRAP ANC	USP	ANCHOR-1/2" WEDGE BOLT 3 1/4" EMBED. (10) 10d X 1 1/2" STRAP	1100
35	LBPI2 -TZ	USP	1/2" J-BOLT	N/A
36	LFTA6	USP	PLATE (8) 8d STUD (8) 8d	1210
37	MSTAI2	USP	(10) 10d	935
38	MSTAI8	USP	(14) 10d	1310
39	MSTA24	USP	(18) 10d	1640
40	MSTA30	USP	(22) 10d	2065
41	MTWI2	USP	(14) 10d	1195
42	MTWI8	USP	(14) 10d	1195
43	MTS27B STRP ANC	USP	(24) 16d (1) 3 3/4" ANCHOR BOLT 3 1/4" EMBEDDED	4635
44	MUGT15	USP	(22) 10d ADD PHD2 W/ (10) WS3 (1) 5/8" ANCHOR BOLT SCREWS & (1) 5/8" 3 3/4" EMBEDDED THREADED ROD	4165
45	NP37 3 1/8 X 7	USP	HEADER (6) 16d TOP OF BOT. SEC.(6) 10d X 1 1/2"	
46	PA 28	USP	(15) 16d	3700
47	JL28IF-TZ	USP	(8) 16d HEADER (4) 10d x 1 1/2" TRUSS	730
48	RTI6A	USP	TRUSS (9) 10d x 1 1/2" PLATE (8) 10d	1380
49	RTI6-2	USP	TOP PLATES (8) 8d TRUSS (8) 8d X 1 1/2"	1160
50	RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	540
51	RT3A CLIPS L/R	USP	(4) 8d TOP (4) 8d BOTTOM	610
52	TA I2	USP	(5) 10d x 1 1/2"	990
53	TA I4	USP	(7) 10d x 1 1/2"	1205
54	TA I8	USP	(8) 10d x 1 1/2" OR (4) 10d x 1 1/2"	1205/600
55	(2)TA I8	USP	(8) 10d x 1 1/2" 1-PLY (8) 10d x 1 1/2" 2-PLY	2410
56	TA 24	USP	(8) 10d x 1 1/2"	1205
57	(2)TA 24	USP	(8) 10d x 1 1/2" 1-PLY (8) 10d x 1 1/2" 2-PLY	2410
58	PHD2	USP	5/8"X8" BOLT 5 3/4" EMBEDED EPOXY (10) WS3 WOOD SCREWS	4815
59				
60				
61				
62	(2) HTW24	USP	(20) 10d (20) 10d	3060
63	THDH414	USP	(16) 16d - POST (66) 16d - TRUSS	6810
64	HGAI0	USP	(4) WS15 - RAFTER/TRUSS (4) WS3 - PLATE	1285
65	LUGT2	USP	STUDS/TOP PLATE (16) 10d TRUSS (16) 10d	2260
66	(2) LUGT2	USP	STUDS/TOP PLATE (16) 10d TRUSS (16) 10d	4520
67	(2) MTWI8	USP	(14) 10d	2390
68	THD26-2	USP	(18) 16d HEADER (12) 10d TRUSS	2285
69	HTT22	USP	(32) 10d OR (32) 16d STRAP 5/8" x 8" THREADED ROD EPOXYED, 5 3/4" EMBDT	5370
70	(2) RT5 CLIPS L/R	USP	TRUSS (4) 8d PLATE (4) 8d	1080

TRUSS HARDWARE SCHEDULE

TRUSS ID	TRUSS TYPE	QUAN.	UPLIFT LEFT	UPLIFT MID	UPLIFT RIGHT	STRAP LEFT	STRAP MID	STRAP RIGHT
TIX	COMMON	4	235		235	50		50
TISX	COMMON	3	217		235	3		50
TISSX	COMMON	3	217		235	50		50
HIX	HIP	1	220		220	50		50
HISAX	HIP	1	202		220	50		50
HGRDX	HIPGRDR (2-PLY)	1	676		677	16		16
HGRDAX	HIPGRDR (2-PLY)	1	801		749	16		16
G2X	GABLE	1	31 @ 48" O.C.					
ATX	ATTIC	6	97		97	54		54
ATAX	ATTIC	3	112		96	54		54
ATASX	ATTIC	2	92		112	54		54
ATBSX	ATTIC	1	92		112	47		54
JGRDX	JACKGRDR	3	147	11	194	41	N	N
JGRDAX	JACKGRDR	1	174	48	144	41	N	N
JGX	JACKGRDR	3	60		175	50		3
JGASX	JACKGRDR	1	73		229	50		3
JX	JACK	8	18		142	50	N	N
JAX	JACK	4	21	9	128	50	N	N
JIX	JACK	3	44		122	50	N	N
JIAX	JACK	1	47	2	110	50	N	N
J2X	JACK	3	31		76	50	N	N
J2AX	JACK	1	32	64	10	50	N	N
J3X	JACK	4	19	5	31	50	N	N
J4X	JACK	3	11	6	76	50	N	N
J4AX	JACK	1	11	61	19	50	N	N
J5X	JACK	3	7	9	43	50	N	N
J5AX	GABLE	1	8	57		50		N
J6X	GIRDER	4	13	17	18	50	N	N
SPIX	SPECIAL	2	63/104		670/630	31/25		31/31
SP2X	SPECIAL	1	66		66	50		50
GIX	GABLE	1	191		192	50		50
GRDX	GIRDER	1	402		394	50		50
VIX-V3X	VALLEY	1	33 @ 48" O.C.					
VI9X-V20X	MONO VALLEY	1	33 @ 48" O.C.					

GENERAL TRUSS NOTES:

1. INFORMATION BASED ON V_{ULT} =160 mph, V_{ASD} =124 mph WINDLOAD. ALL PRESSURES WERE CALCULATED USING MWFRS/C-C HYBRID WIND ASCE 7-10
2. ROOF TRUSS LOADING:
   16 psf TOP CHORD LL
   7 psf TOP CHORD DL
   0 psf BOTTOM CHORD LL
   10 psf BOTTOM CHORD DL
   33 psf TOTAL LOAD
3. PROVIDE TRUSS BRACING PER TRUSS ENGINEERING & BCSI (LATEST EDITION)

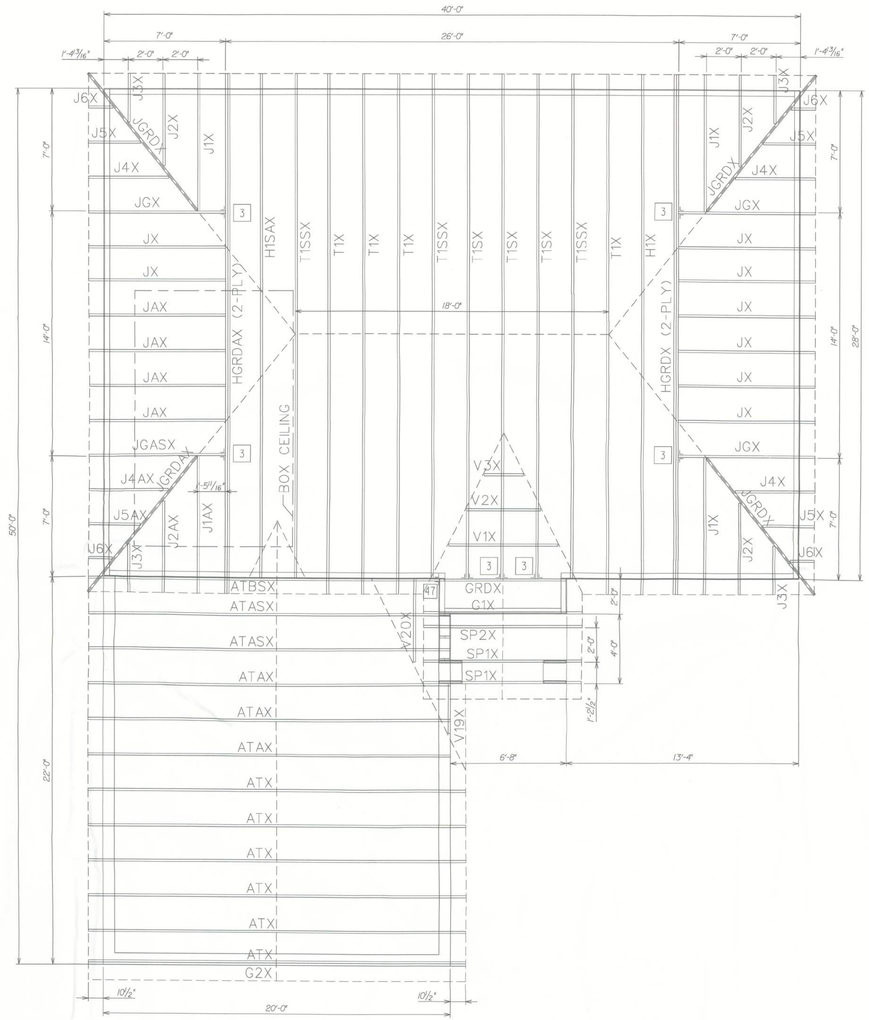


FOR MISSED FLOOR ANCHORS, CONSULT ENGINEER STAFF

CONNECTOR	MAX. UPLIFT
LTWI2	775 LBS
LFTA6	990 LBS
RTI6	700 LBS

ANCHOR FASTENING SCHEDULE
MISSED ROOF TIE DOWN REPAIR

SCALE : NTS



PRODUCT REL DATE
REVISIONS
03-5-12 REV. PER 2010 FBC, RESIDENTIAL

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

$FILE$

AMERICANA

BEDFORD

ELEVATION "A" w/ BOX CEILING

DRAWN BY: BGS | GARAGE: LEFT

RELEASE DATE: 3/24/09

10:38:58

TOMAS PONCE
LICENSE
No. 50068
STATE OF FLORIDA
PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

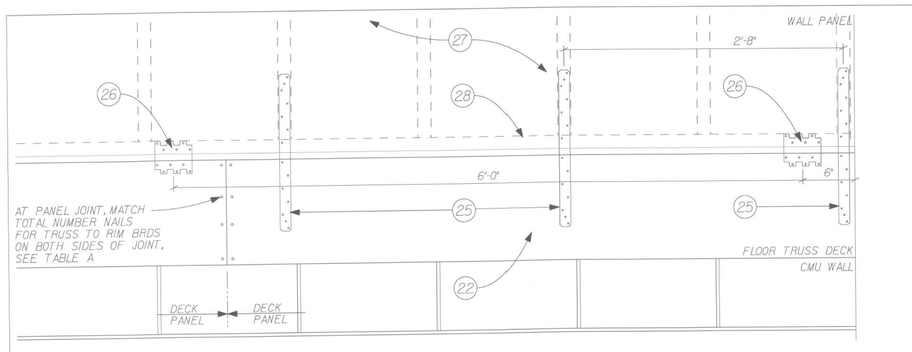
SHEET:
TRI

PLOT DATE: 23 APR 2012

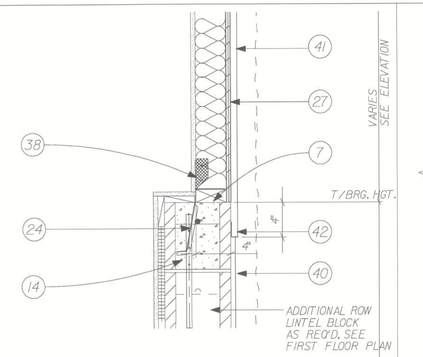
FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

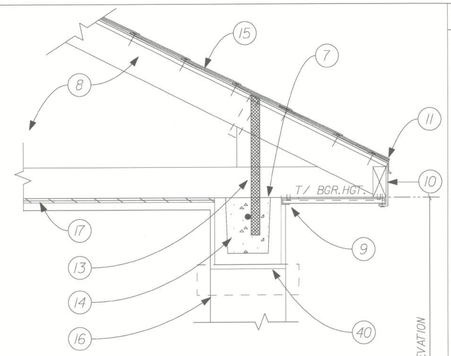
...\350-bed-c-mbr-1.tr1 Apr. 23, 2012 10:38:58



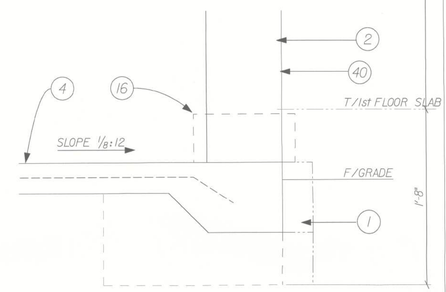
7 PARTIAL FLOOR TRUSS ELEVATION
SCALE : 1½" = 1'-0"



4 PARTIAL SECTION - TWO STORY OPENING
REVISED 08-11-09 ADDED STONE DOTTED
SCALE : 1½" = 1'-0"



B. ROOF



A. FOUNDATION

2 ONE STORY WALL SECTION - PORCH
SCALE : 1½" = 1'-0"

WALL SECTION KEY NOTES

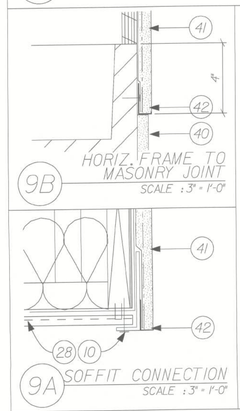
1. BLOCK STEMWALL AND CONCRETE FOUNDATION. SEE FOUNDATION PLAN.
2. 8" CONCRETE BLOCK WALL.
3. (1) #5 REBAR (GRADE 40) GROUTED SOLID IN A FILLED CELL. CONT. FROM FOOTING TO BOND BEAM.
4. CONCRETE SLAB
5. WOOD BASE
6. ½" DRYWALL ON ¾" P.T. FUR'G @ 24" O.C. w/ R4.1 FOIL INSULATION
7. SILL SEAL OR SELF-NAILING PLATES
8. PRE-ENGINEERED ROOF TRUSSES @ 24" O.C., MAX. R-30 INSULATION w/ OPEN BAFFEL @ A/C SPACE LOCATIONS
9. VENTED SOFFIT AND J-CHANNEL. STAPLE SOFFIT TO SUB-FASCIA @ 8" O.C. FRAME CONST : ATTACH J-CHANNEL w/ ⅜" x⅞" STAPLE AT 24" O.C. INTO ROOF TRUSS.
10. ALUM. FASCIA ON 2x4 SUB-FASCIA, 1¼" SS TRIM NAIL THRU FASCIA, SOFFIT AND INTO SUB-FASCIA @ 48" O.C.
11. METAL DRIP EDGE
12. ½" CEILING BOARD w/ R-30 INSUL. AS REQ'D
13. ROOF TRUSS ANCHORS, SEE ROOF TRUSS INFO SHEET # TRI
14. 8" CONCRETE LINTEL BLOCK w/ (1) #5 REBAR w/ STD. HOOK
15. ROOF ASSEMBLY:
    FIBERGLASS SHINGLES, ASTM D 225, ASTM D 3462, ASTM D 3161 MODEL #20YR CLASSIC AR, ATTACH w/ (6) 1¼" 11-12ga. w/ ⅜" HEAD ROOFING NAIL PER STRIP or (2) PER INDIVIDUAL SHINGLE, ASPHALT SHINGLES MANUFACTURED BY OWENS CORNING.

    26ga. GALV. STEEL 4x4 L FLASHING

    #15 FELT PAPER, ASTM D 226 TYPE I or ASTM D 4869 TYPE I, OVER SHEATHING TEMPORARILY FASTENED, LAPPED 2"

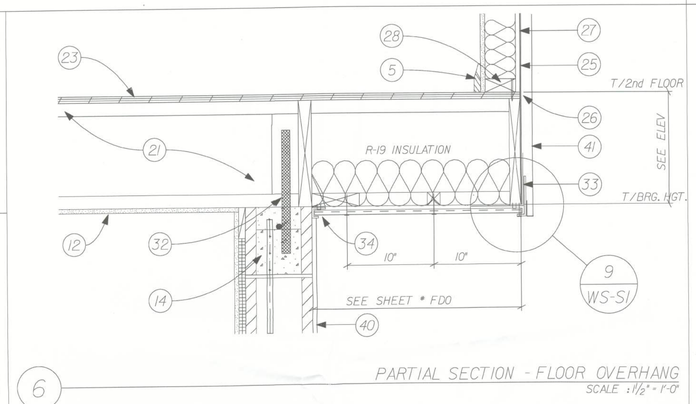
    7/16" OSB SHT'G w/ 8d RING/SCREW SHANK NAIL (AS PER R803.2.3.1) 4" O.C. EDGES AND 6" O.C. FIELD [3" O.C. @ GABLE END TRUSSES] w/ CLIPS ON TRUSSES.
16. PIER BASE AND CAP TRIM , SEE EXTERIOR ELEVATIONS
17. FLAT 7/16" OSB SOFFIT w 8d NAILS @ 6" O.C. EDGES AND 4" O.C. FIELD, w/ EXT. MAS. PLASTER ON UNDERSIDE OF ROOF TRUSSES
21. PRE-ENGINEERED WOOD I-JOIST or FLOOR TRUSS @ 24" O.C., MAX. SEE SECOND FLOOR FRAMING PLAN
22. WOOD RIM BOARD. SEE TABLE # A FOR ATTACHMENT.
23. ¾" T&G WOOD DECKING, GLUED AND ATTACHED w/ 7d x 2¼" SCREW SHANK NAIL @ 4" O.C. EDGES AND 8" O.C. FIELD or. 16ga. x 1¾" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD, SEE SECOND FLOOR FRAMING SHEET. GLUE MUST BE INCLUDED IN THE GROOVE OF EACH PANEL AND BTWN SHT'G AND TRUSSES.
24. FA3, ATTACH w/ (6) 10d x 1½" NAILS, INTO INSIDE FACE OF RIM BOARDS. FOR LOCTIONS, SEE SECOND FLOOR FRAMING PLAN SET IN FROM OUTSIDE FACE OF BLOCK:
    1¼" @ 1¼" x 16" RIM BRD — 2½" @ (2) 1¼" x 16" RIM. BRD.
    1½" @ 2x WOOD RIM BRD. — 3" @ (2) 2x WOOD RIM BRD.
    4" @ 2x4 STUD WALL — 6" @ 2x6 STUD WALL
25. MSTA18 @ BUILDING CORNERS, PANEL ENDS AND 32" O.C., INSTALL 9" ON STUD AND 9" ON WOOD RIM BOARD w/ (14) 10d x 1½" NAILS
26. MP6F TIE PLATE @ 6" FROM BUILDING CORNERS AND 72" O.C., MAX. TYPE I INSTALLATION w/ (12) 8d NAILS
27. 7/16" OSB SHEATHING ON EXT. WALLS w/ ALL EDGES BLOCKED ATTACH w/ 8d NAILS @ 4" O.C. EDGES AND 6" O.C. FIELD or 16ga. x 1¾" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD.
28. 2x4 SPF BOTTOM PLATE, NAILED w/ 10d NAIL @ 12 " O.C. TO RIM BOARD.
29. ½" DRYWALL ON 2x4 #2 SYP WOOD STUDS @ 16" O.C. AND R-13 INSULATION.
30. 2x WOOD HEADER @ OPENING . SEE SECOND FLOOR PLAN SOR SIZE.
31. (2) 2x4 #2 SPF TOP PLATES w/ HURRICANE STRAP. SEE WALL PANEL SHEETS FOR SIZE AND LOCATION FOR STRAPS
32. TA14, ATTACH TO FACE OF TRUSS w/ (9) 10d x 1½" NAILS
33. MSTA12 @ END TRUSS AND 48" O.C., INSTALL 6" UP ON RIM BRD. AND 6" ON UNDERSIDE OF TRUSS.
34. VENTED SOFFIT AND J-CHANNEL ATTACHED w/ ⅜" x⅞" STAPLE @ 16" O.C. INTO 2x4 SYP NAILER. INSTALL INTERMED. 2x NAILERS AS SHOWN ATTACH SOFFIT w/ CORROSION RESISTANT NAIL
35. VALLEY FLASHING, AS REQ'D.
36. MSTA18 AT END OF EACH PANEL ADJACENT TO WIDOW OPENINGS AND AT 32" O.C., INSTALL 9" ON 2nd FLOOR STUD, AND 9" ON FLOOR'G ASSEMBLY. ALSO ADD BOTTOM MSTA18 9" ON FLOOR'G ASSEMBLY AND 9" ON STUD BELOW.
37. SHEARWALL ASSEMBLY, SEE FIRST FLOOR PLAN.
38. RT3A AT THE BOTTOM OF STUDS @ 16" O.C., INSTALL (1) RT3A ON EACH SIDE OF WINDOW OPENING, FIELD INSTALL PRIOR TO INSTALLATION
39. 2x4 #2 SYP P.T. BOTTOM PLATE w/ RT3A @ EVERY STUD ATTACH w/ (1) FA3 @ EACH END OF WALL, (1) @ EA. SIDE OF OPENING AND @ 48" O.C.
40. ½" MIN. THICKNESS (2 COAT) EXTERIOR MASONRY PLASTER, APPLIED DIRECTLY TO BLOCK / MASONRY. [STONE VENEER DOTTED, SEE MANUF. INSTALLATION]
41. ⅞" MIN. THICKNESS (3 COAT) EXTERIOR MASONRY PLASTER APPLIED OVER PAPERBACK WIRE LATH ON TYPAR OR EQUAL BUILDING WRAP PAPER [STONE VENEER DOTTED, SEE MANUF. INSTALLATION]
42. HORIZ. CASING BEAD / STUCCO STOP w/ 4" BARRIER MEMBRANE LAP BLOCK CONST. : ATTACH w/ ⅜" T-NAIL @ 16" O.C.
    FRAME CONST. : ATTACH w/ ⅞" x⅞" STAPLE @ 16" O.C.

REVISED 02-16-12 : NOTE #12, 21, 30

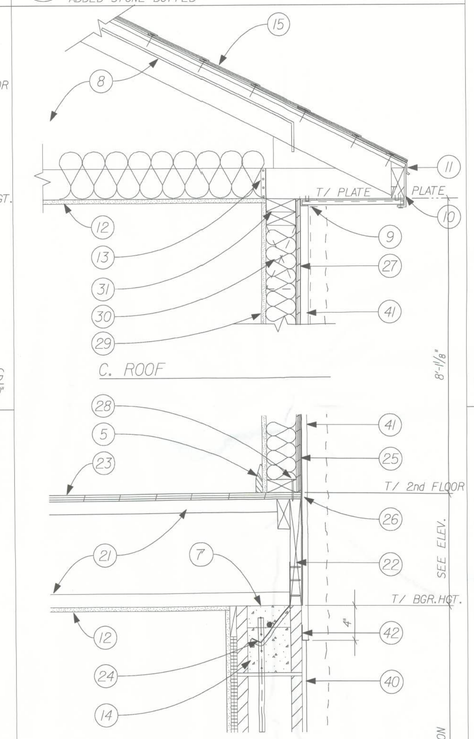


9B HORIZ. FRAME TO MASONRY JOINT
SCALE : 3" = 1'-0"

9A SOFFIT CONNECTION
SCALE : 3" = 1'-0"

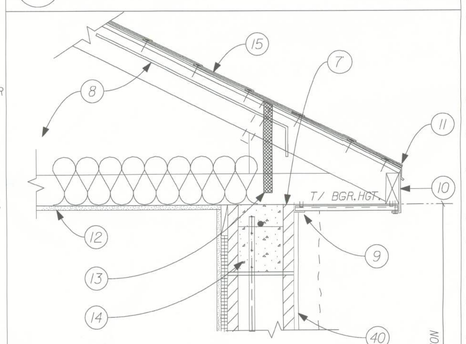


6 PARTIAL SECTION - FLOOR OVERHANG
SCALE : 1½" = 1'-0"

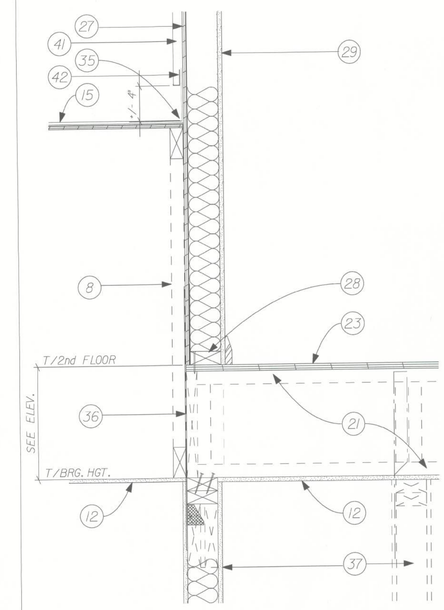


C. ROOF

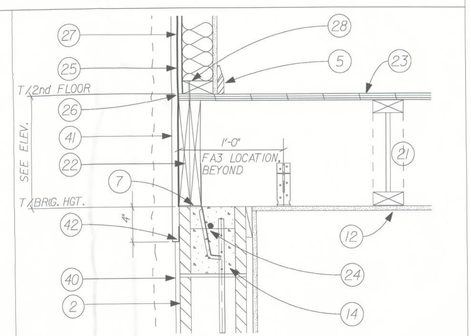
B. 2nd FLOOR DECK



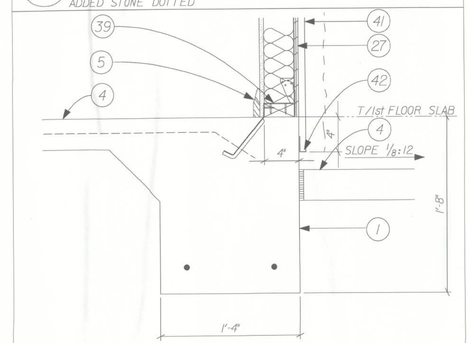
B. ROOF



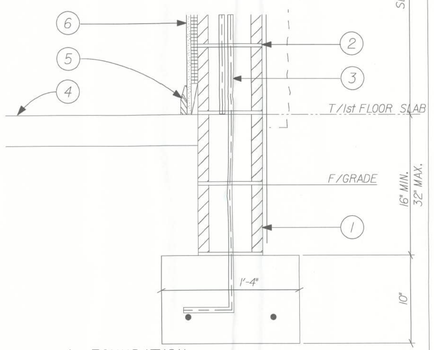
8 PARTIAL SECTION - FLOOR TRUSS TO ROOF
SCALE : 1½" = 1'-0"



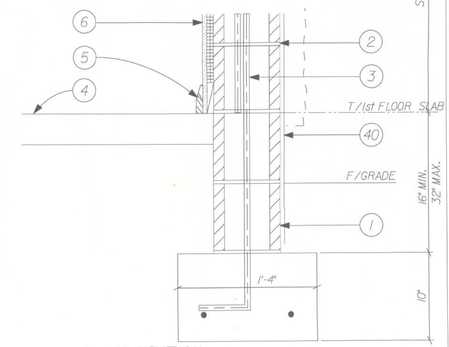
5 PARTIAL SECTION - SIDE WALL
REVISED 08-11-09 ADDED STONE DOTTED
SCALE : 1½" = 1'-0"



10 PARTIAL SECTION - FRAMED ENTRY
REVISED 08-11-09 ADDED STONE DOTTED
SCALE : 1½" = 1'-0"



A. FOUNDATION
TWO STORY WALL SECTION - STANDARD
REVISED 08-11-09 ADDED STONE DOTTED
SCALE : 1½" = 1'-0"



A. FOUNDATION
ONE STORY WALL SECTION - STANDARD
REVISED 08-11-09 ADDED STONE DOTTED
SCALE : 1½" = 1'-0"

TABLE A

TRUSS DEP.	RIM BD.	# NAILS, RIM BRD. TO FLOOR TRUSS
9¼"	2x10	(4) 10d NAILS
16"	1¼" x 16"	(6) 10d NAILS

REVISIONS :
PRODUCT REL. DATE 05-25-10
07-18-12 REV. NOTE # 21
03-15-12 REV. PER 2010 FBC : RESIDENTIAL

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE: B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 150 MPH
Vasd = 124 MPH

WALL SECTIONS [ST]
DRAWN BY: SWE
GARAGE: -
RELEASE DATE: 02-03-10

TOMAS PONCE LICENSE 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER
8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:
WS-S1

g:\FL_gse\houses\0_details\190x_std_ws-s1.dtl
PLOT DATE: 18 JUL 2012 12:02:25

FLORIDA BUILDING CODE 2010 : RESIDENTIAL
FL_GSE

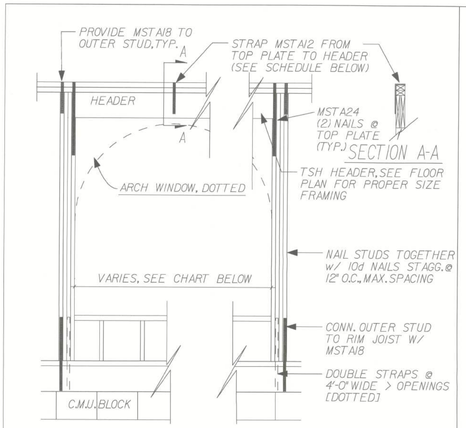
...\0_details\190x_std_ws-s1.dtl Jul. 18, 2012 12:02:25

EXTERIOR DOORS/WINDOWS:

SEE MANUFACTURERS DETAILS FOR INSTALLATION AND NUMBER OF FASTENERS PER WINDOW/DOOR

WINDOWS:

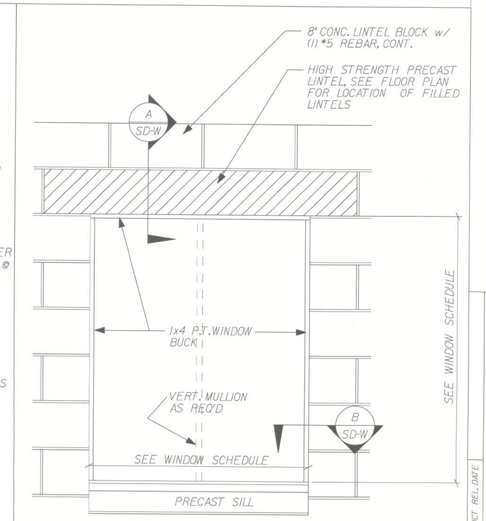
WINDOW TYPE	SIZE	MASONRY OPN'G
IH2 SH	26 1/2" x 26"	27 1/4" x 26"
IH3 SH	26 1/2" x 38 3/8"	27 1/4" x 38 3/8"
IH4 SH	26 1/2" x 50 5/8"	27 1/4" x 50 3/8"
IH5 SH	26 1/2" x 63"	27 1/4" x 63"
23 SH	37" x 38 3/8"	37 3/4" x 38 3/8"
24 SH	37" x 50 5/8"	37 3/4" x 50 5/8"
25 SH	37" x 63"	37 3/4" x 63"
35 SH	53 1/8" x 63"	53 1/8" x 63"
2 - 25 SH	74" x 63"	74 3/4" x 63"



K TYP.HEADER DETAIL-2ND FLOOR FRAMING

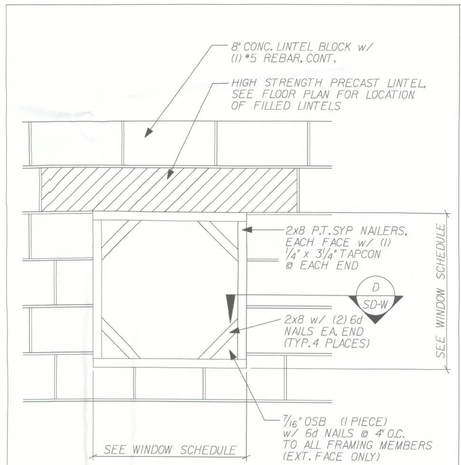
REVISED 03-30-11 : DELETED CHART

SCALE: N.T.S.



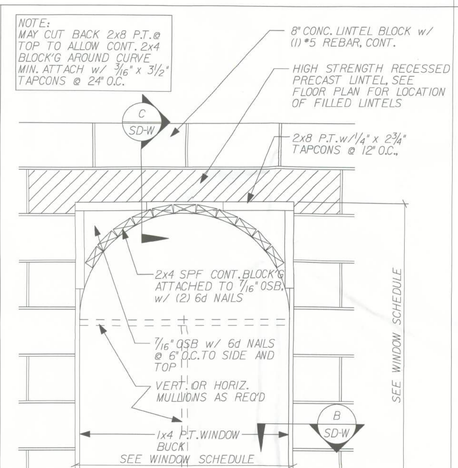
J WINDOW-STANDARD-BLK

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



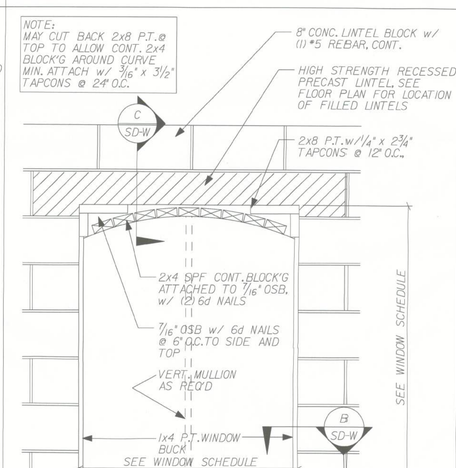
H WINDOW-OCTAGON-BLK

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



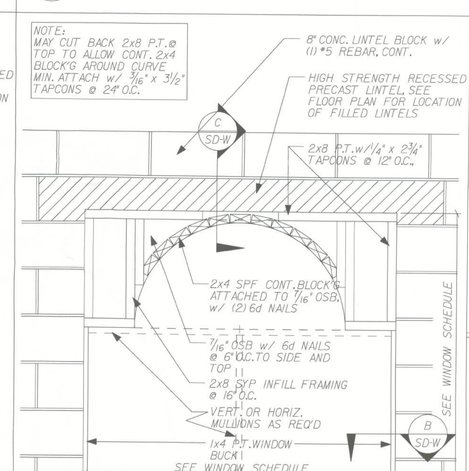
G WINDOW-1/2 ROUND TOP-BLK

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



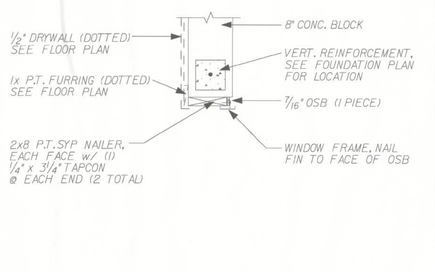
F WINDOW-EYEBROW-BLK

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



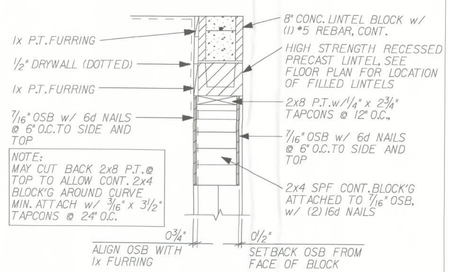
E WINDOW-COMBINATION-BLK

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



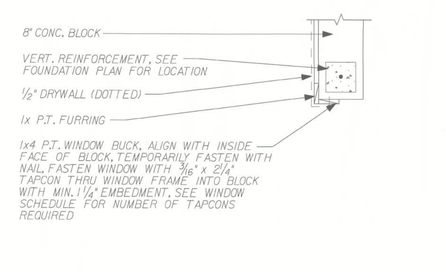
D WINDOW JAMB-OCTAGON-BLK

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



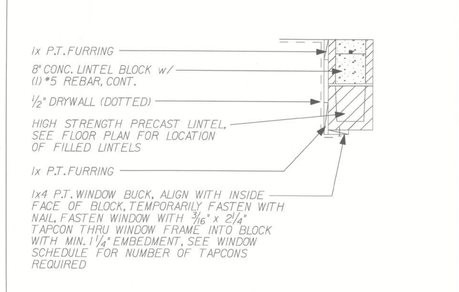
C WINDOW HEAD-ARCH WINDOW-BLK

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"

PRODUCT REL DATE

REVISIONS :

03-15-12 REV.PER 2010 FBC. RESIDENTIAL

Maronda Homes

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

FLORIDA:
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DESIGNED WIND SPEED

Vult = 160 MPH
Vasd = 124 MPH

STANDARD DETAILS

WINDOWS

DRAWN BY: SWE | GARAGE: - | RELEASE DATE: 02-03-10

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL.PE.LIC.#50068

SHEET:

SD-W

PLOT DATE: 03 JUL 2012 15:38:36

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FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

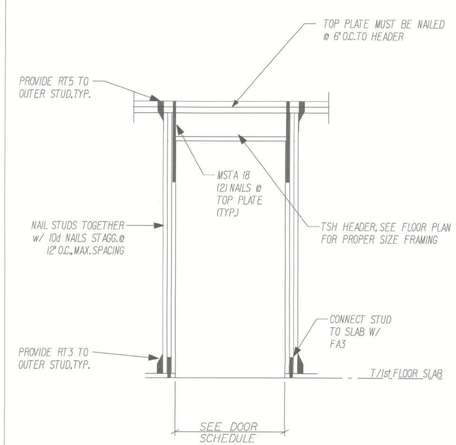
...\0_details\19\x_std_sdw.dtl Jul. 03, 2012 15:38:36

EXTERIOR DOORS/WINDOWS:

SEE MANUFACTURERS DETAILS FOR INSTALLATION AND NUMBER OF FASTENERS PER WINDOW/DOOR

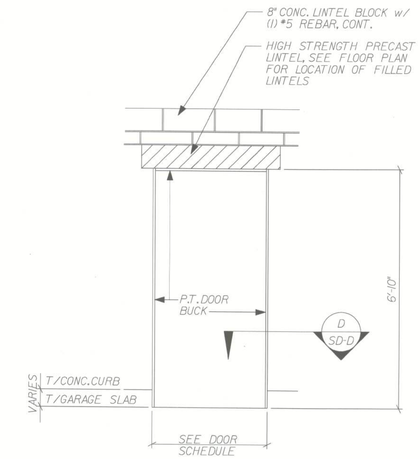
DOORS:

DOOR TYPE	SIZE	MASONRY OPN'G
2-0 [IN-SWING]	25 1/2" x 80 5/8"	29" x 82 3/8"
2-8 [IN-SWING]	33 1/2" x 80 5/8"	37" x 82 3/8"
3-0 [IN-SWING]	37 1/2" x 82"	41" x 82 3/8"
3-0 w/(1) SL [IN-SWING]	51 1/8" x 82"	54 5/8" x 82 3/8"
3-0 w/(2) SL [IN-SWING]	64 1/2" x 82"	68" x 82 3/8"
6068 SGD	72" x 80"	75 1/2" x 81 3/4"
6080 SGD	72" x 96"	75 1/2" x 97 3/4"
8'-0" x 7'-0" GARAGE DR	96" x 84"	96" x 84"
16'-0" x 7'-0" GARAGE DOOR	192" x 84"	192" x 84"



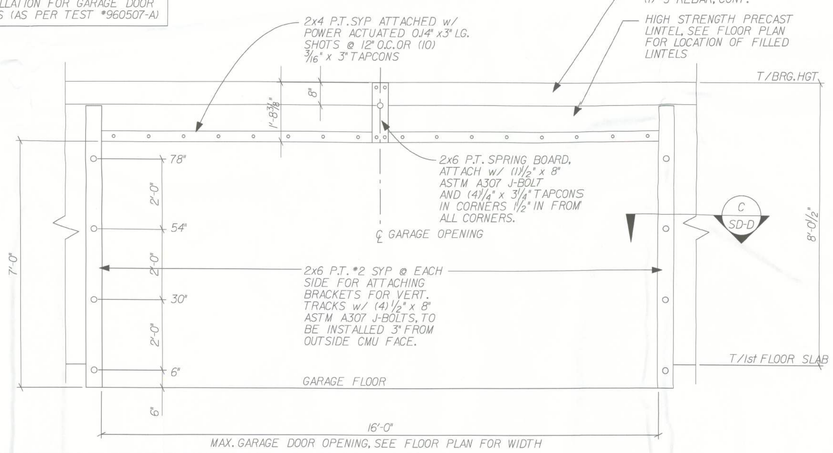
J — FRM'G @ SHEAR WALL : UPLIFT

REVISED 03-30-11
DELETED CHART, REVISED HEADER



H — OPTIONAL SERVICE DOOR

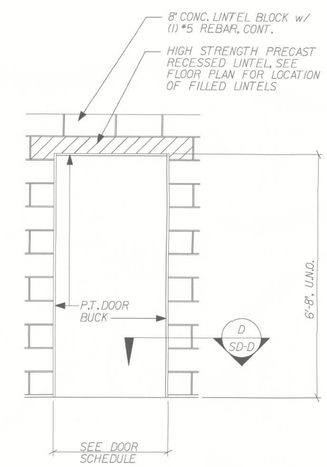
CONTRACTOR NOTE:
INSTALLATION FOR GARAGE DOOR TYPES (AS PER TEST #960507-A)



NOTE:
SIDE JAMB ATTACHMENT IS PER ACI 530J CHAPTER 2 ASD SECTION 2J.4 [SUPERCEEDS WAYNE DALTON JAMB ATTACHMENT SUPPLEMENT]

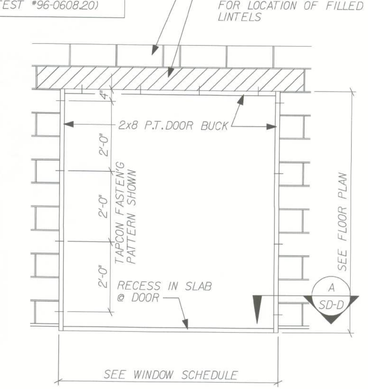
G — GARAGE DOOR ELEVATION

REVISED 09-10-09
ADDED J-BOLT, REVISED J-BOLT LOCATIONS

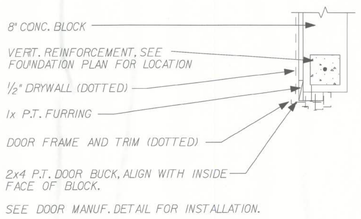


F — STANDARD DOOR ELEVATION

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)

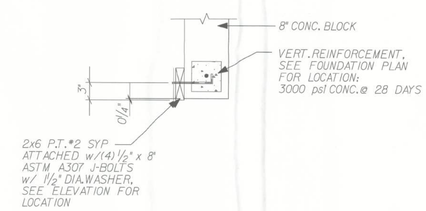


E — SLIDING GLASS DOOR ELEVATION



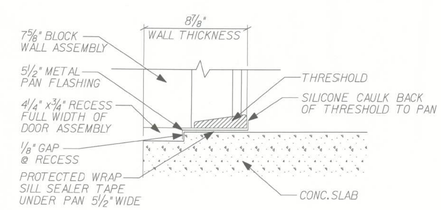
D — 2x DOOR BUCK DETAIL

REVISED: 01-15-09 SCALE: 3/4" = 1'-0"



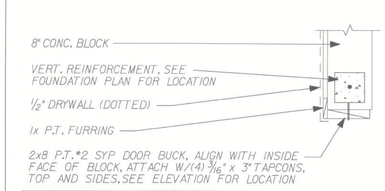
C — GARAGE DOOR BUCK DETAIL

REVISED 09-10-09
ADDED J-BOLT, REVISED J-BOLT LOCATIONS



B — DOOR PAN FLASHING

REVISED: 09-08-09
INCREASED RECESS DIM.



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

A — SLIDING GLASS DOOR BUCK DETAIL

PRODUCT REL DATE
REVISIONS :
03.15.12 REV. PER 2010 FBC : RESIDENTIAL

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

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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

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DOORS STANDARD DETAILS

GARAGE: -
DRAWN BY: SWE
RELEASE DATE: 02-03-10
15:40:00

TOMAS PONCE LICENSE NO. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

8/15/12
Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

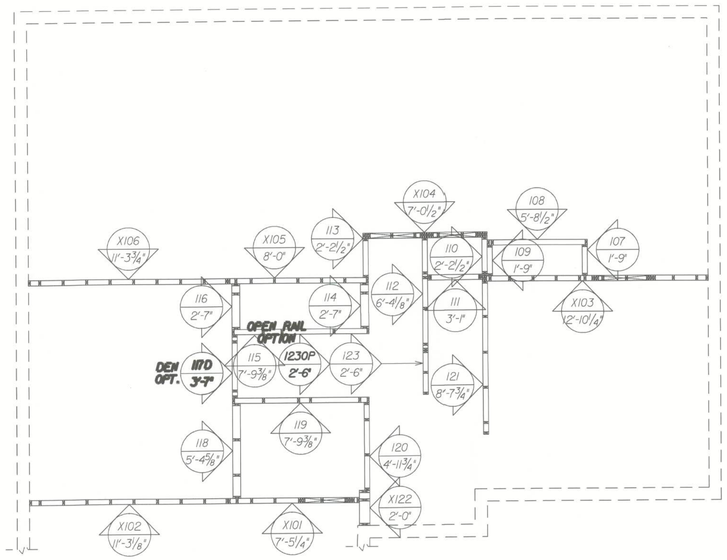
SHEET:
SD-D

PLOT DATE: 03 JUL 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

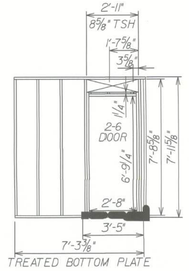
...\0_details\192x_std_sdd.dtl Jul. 03, 2012 15:40:00



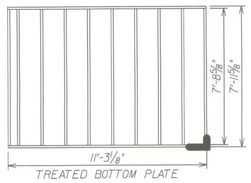
FRONT OF HOUSE

FIRST FLOOR INTERIOR WALL PANEL LAYOUT

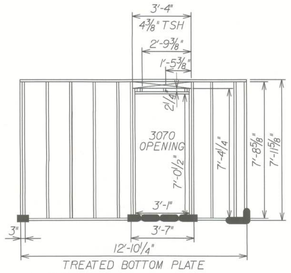
A,M & S ELEVATIONS



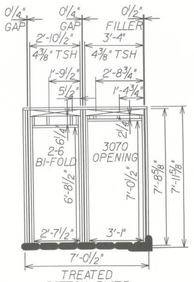
PANEL X101



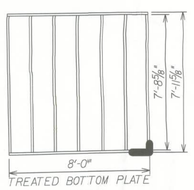
PANEL X102



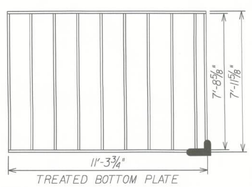
PANEL X103



PANEL X104

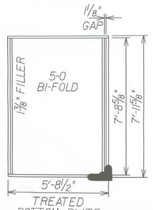


PANEL X105

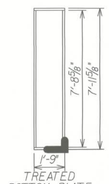


PANEL X106

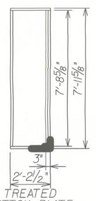
PANEL 107



PANEL 108



PANEL 109



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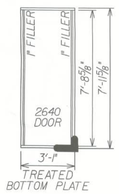

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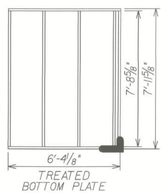
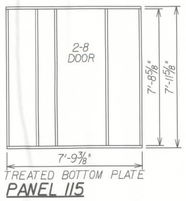


PANEL 112

PANEL 113

PANEL 114



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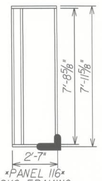
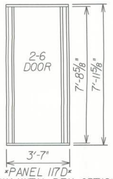
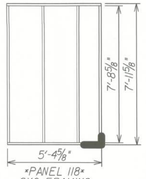


PANEL 116



PANEL 117D



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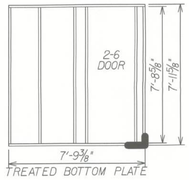

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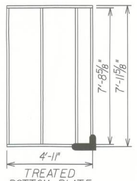
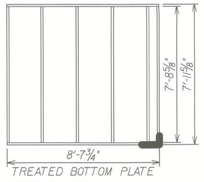
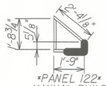


PANEL 120



PANEL 121

PANEL X122



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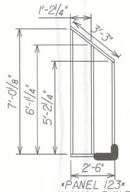
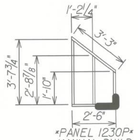


PANEL 123



PANEL 1230P

PRODUCT REL DATE	REVISIONS
REVISED STUDS TO 9 2/8" 7/23/09 MKH	
REMOVED LADDERS 11/13/09 MKH	
PRODUCT MOD. 6/28/10 MKH	

Maronda Homes
4005 MARONDA WAY
SANFORD, FL 32771
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FLORIDA;
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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | WALL PANEL LAYOUT

BEDFORD

"A,M & S" ELEVATIONS

DRAWN BY: MKH | GARAGE: LEFT

RELEASE DATE: 07-10-10

SHEET: WPI

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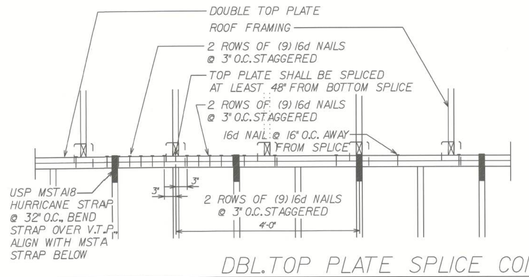
09:40:32

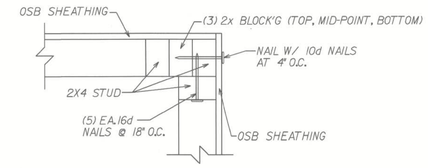
FL_GSE



DBL.TOP PLATE SPLICE CONN.

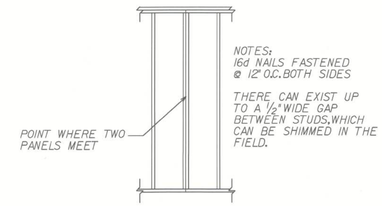
REVISED 01-04-08 : MSTA18 STRAP

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.

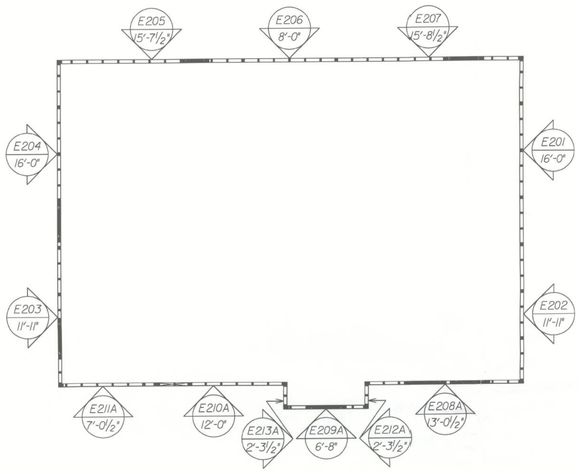
WALL STRAP KEY

(UNDER SHEATHING)

- S1 - RSPT4

(ON TOP OF SHEATHING)

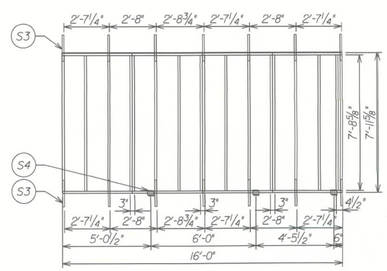
- S2 - MSTAI2 (BENT)
- S3 - MSTAI8
- S4 - MP6F
- S5 - MSTA30
- S6 - MSTA24



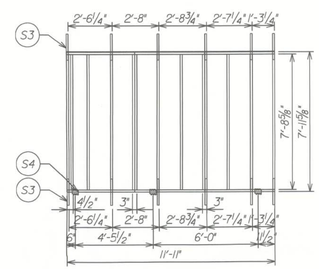
FRONT OF HOUSE

SECOND FLOOR EXTERIOR WALL PANEL LAYOUT

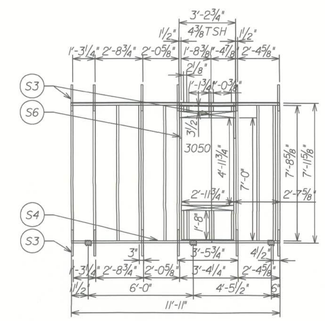
ELEVATIONS "A" & "M"



PANEL E201



PANEL E202



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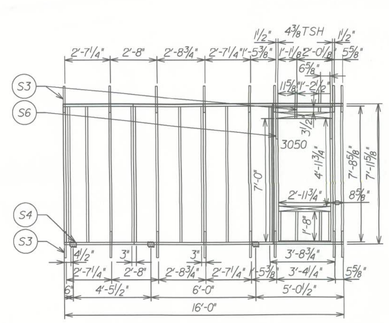

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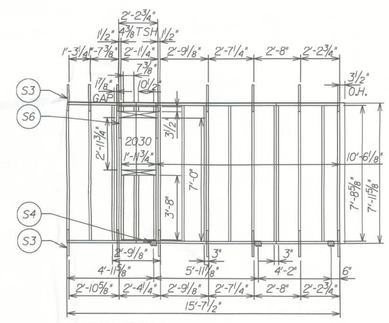

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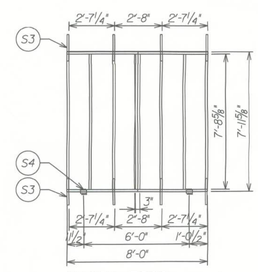

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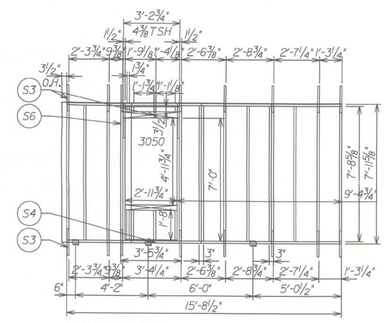

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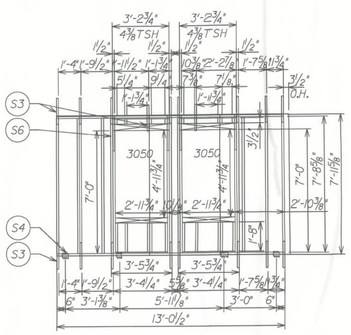
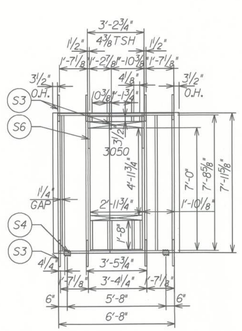


PANEL E208A



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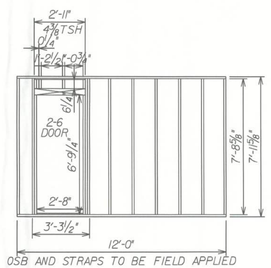
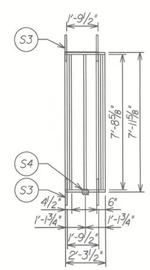


OSB AND STRAPS TO BE FIELD APPLIED

PANEL E210A

OSB AND STRAPS TO BE FIELD APPLIED

PANEL E211A



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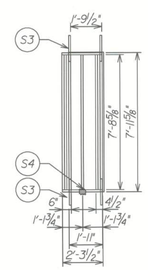

PANEL E213A

PRODUCT REL. DATE	
NEW WINDOW R/O FOR CODE CHANGE 1-30-09	
REVISED STUDS TO 92⅝" 11/23/09 MKH	
REVISED WINDOW IN PANEL E203 TO 2'-7⅝" 8/25/09 MKH	

REVISIONS :

Maronda Homes

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

FLORIDA:
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DESIGNED WIND SPEED

Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | WALL PANEL LAYOUT

BEDFORD

ELEVATIONS - "A" & "M"

DRAWN BY: LKB | GARAGE: LEFT

RELEASE DATE: 06-02-08

14.30.35

SHEET:

WP2

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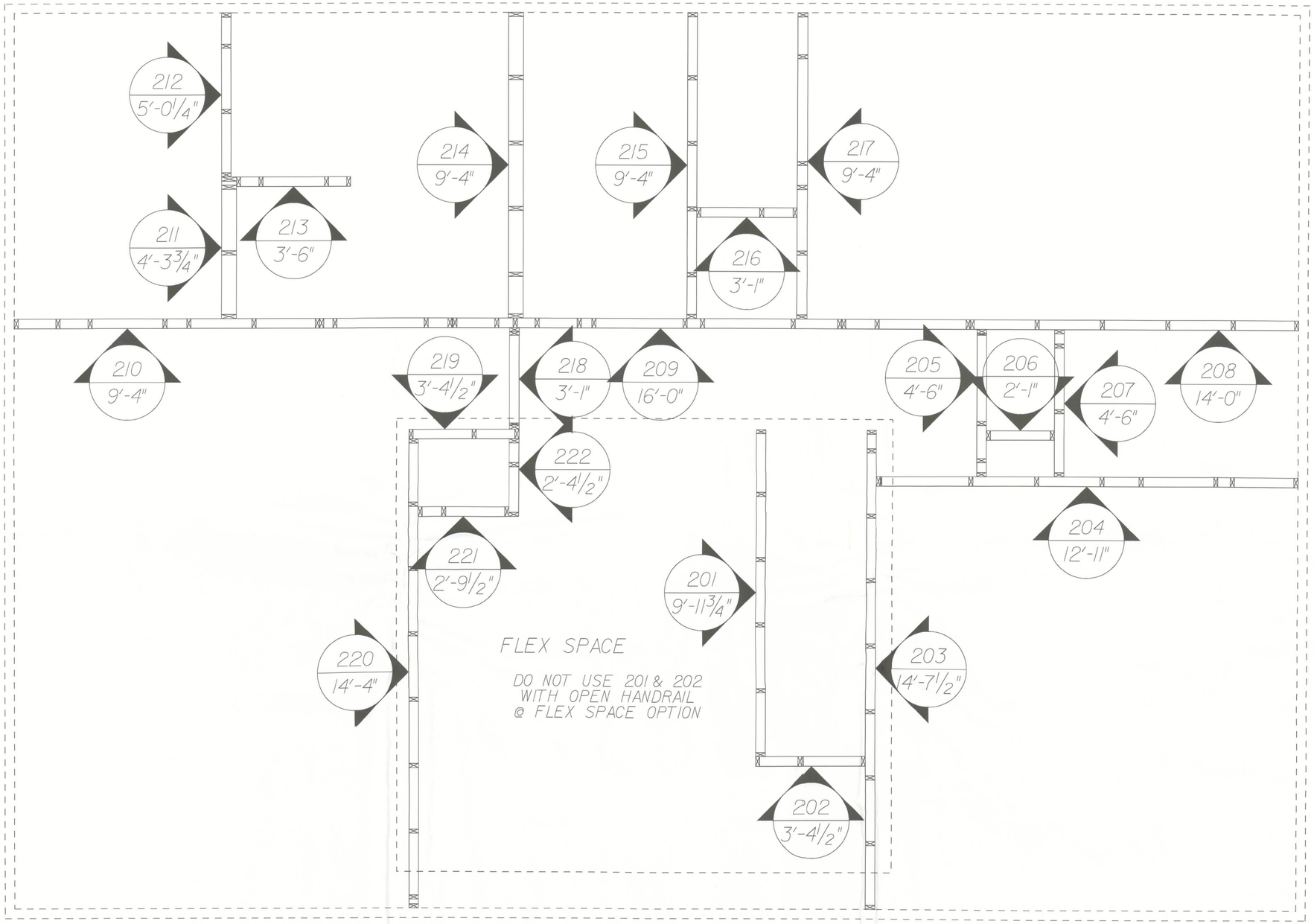
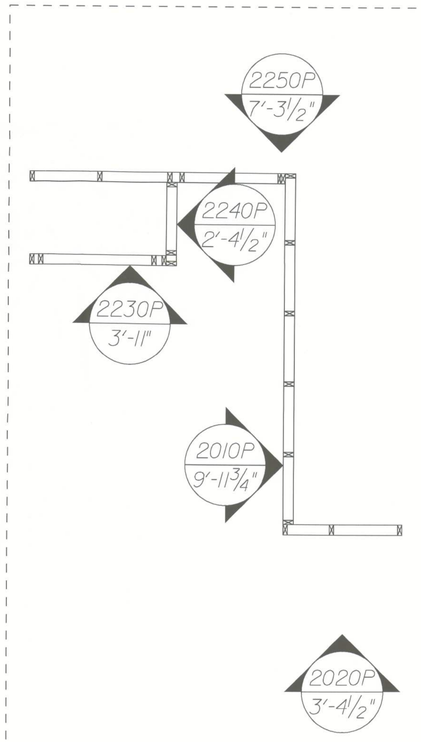


FRONT OF HOUSE

SECOND FLOOR INTERIOR WALL PANEL LAYOUT

ALL ELEVATIONS

4TH BEDROOM OPTION



PRODUCT REL DATE

REVISIONS :

REVISED STUDS TO 9⅝" 7/27/09 WKH

LADDER BLOCKING REVISIONS 3/3/10

PROD MOD TO REMOVE "T" INT 9/27/10

Maronda Homes

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

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DESIGNED WIND SPEED

Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | WALL PANEL LAYOUT

BEDFORD

ALL ELEVATION

DRAWN BY: MKH | GARAGE: LEFT

RELEASE DATE: 06-29-09

10x02x02

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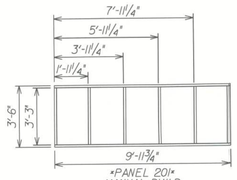
SHEET:

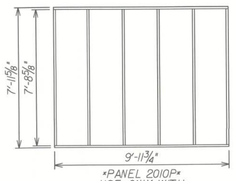
WP3

FL_GSE



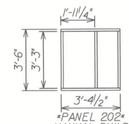
PANEL 201
MANUAL BUILD
REMOVE FROM JOB SET
WITH OPEN HANDRAIL OPTION

PANEL 201



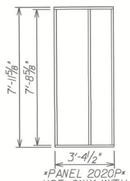
PANEL 2010P
USE ONLY WITH
4TH BEDROOM OPTION

PANEL 2010P



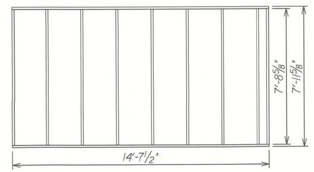
PANEL 202
MANUAL BUILD
REMOVE FROM JOB SET
WITH OPEN HANDRAIL OPTION

PANEL 202

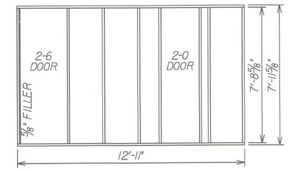


PANEL 2020P
USE ONLY WITH
4TH BEDROOM OPTION

PANEL 2020P



PANEL 203



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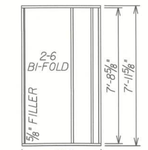
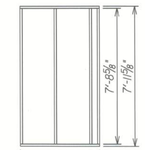
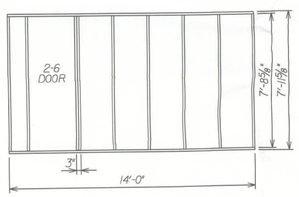


PANEL 205

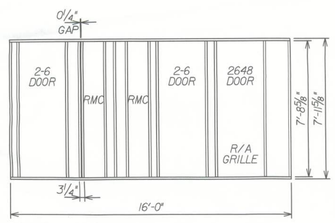
PANEL 206



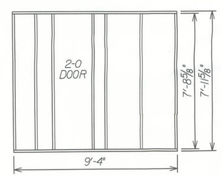
PANEL 207



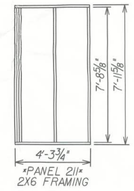
PANEL 208



PANEL 209

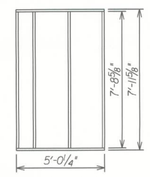


PANEL 210

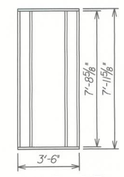


PANEL 211
2X6 FRAMING

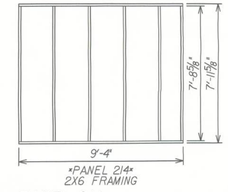
PANEL 211



PANEL 212

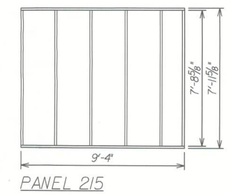


PANEL 213

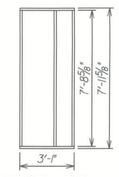


PANEL 214
2X6 FRAMING

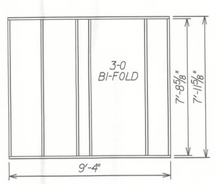
PANEL 214



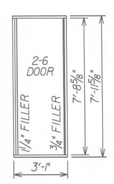
PANEL 215



PANEL 216



PANEL 217



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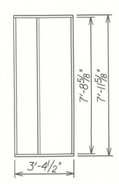

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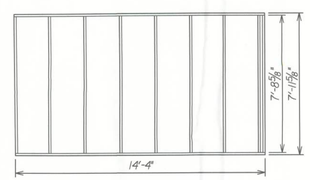
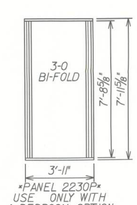


PANEL 220

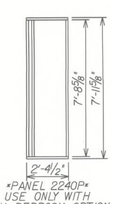
PANEL 221

PANEL 222



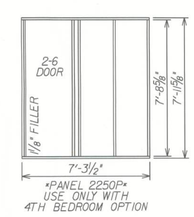
PANEL 2230P
USE ONLY WITH
4 BEDROOM OPTION

PANEL 2230P



PANEL 2240P
USE ONLY WITH
4TH BEDROOM OPTION

PANEL 2240P



PANEL 2250P
USE ONLY WITH
4TH BEDROOM OPTION

PANEL 2250P

PRODUCT REL DATE	
REVISIONS :	
1	REVISED STUDS TO 92⅝" 11/27/09 MKH
2	LADDER BLOCKING REVISIONS 3/9/10
3	PROD MOD TO REMOVE "T" INT 9/27/10
4	
5	
6	
7	
8	

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDNTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED

Vult = 150 MPH
Vasd = 124 MPH

AMERICANA | WALL PANEL LAYOUT

BEDFORD

ALL ELEVATION

DRAWN BY: MKH | GARAGE: LEFT

RELEASE DATE: 06-29-09

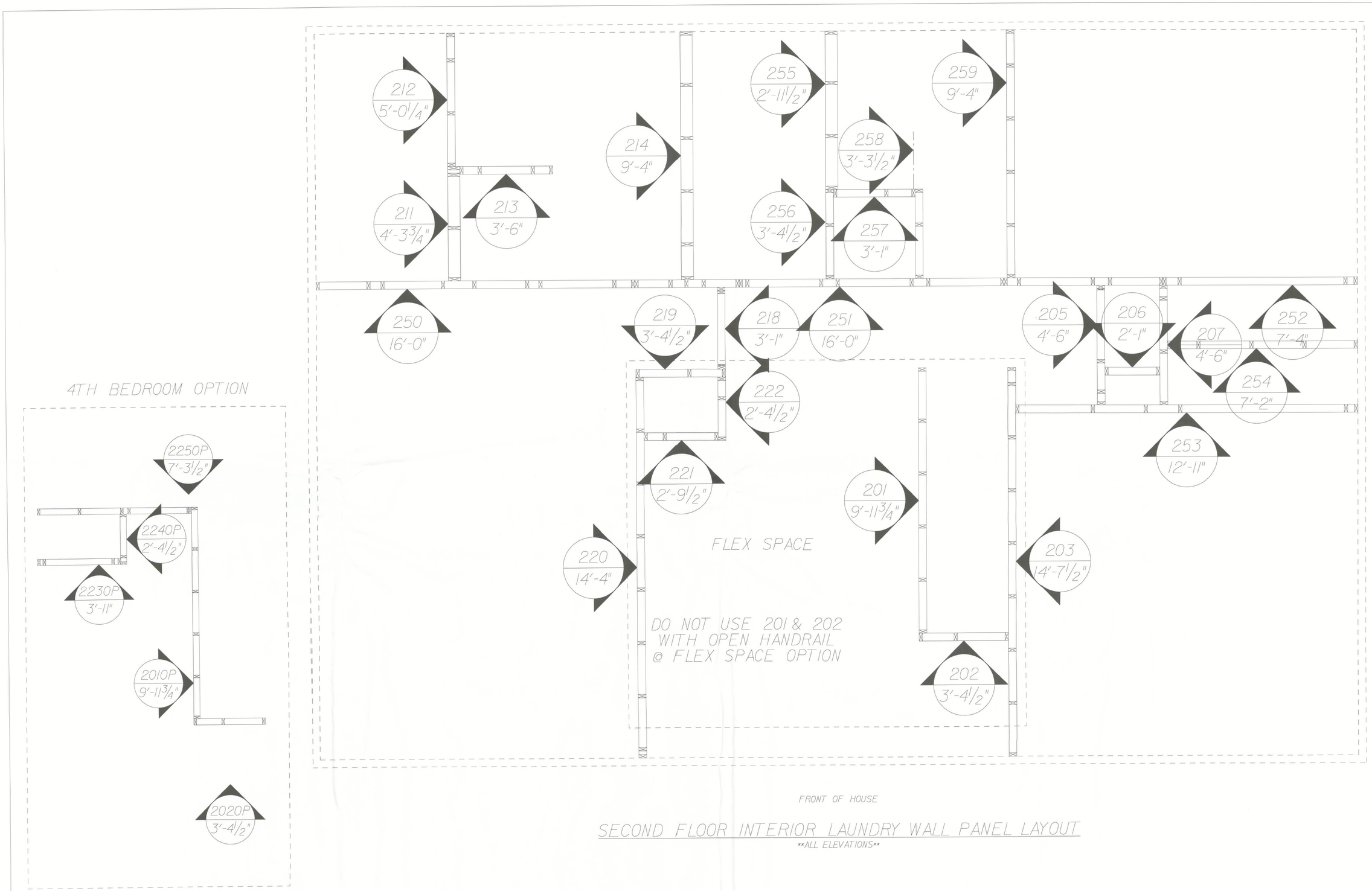
10.02.03

SHEET:

WP3.1

g:\mfcc\houses\V1\bedford\bedford_1rtl.wp3

FL_GSE



SECOND FLOOR INTERIOR LAUNDRY WALL PANEL LAYOUT

ALL ELEVATIONS

PRODUCT REL DATE

REVISIONS :

Maronda Homes

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

FLORIDA:
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DESIGNED WIND SPEED

Vult = 150 MPH
Vasd = 124 MPH

g:\mfcc\houses\F\bedford\border\left\bedford_lndry.wp3

AMERICANA | WALL PANEL LAYOUT

BEDFORD

2ND FLOOR LAUNDRY

DRAWN BY: MKH | GARAGE: LEFT

RELEASE DATE: 06-29-09

09:51:02

SHEET:

WP3

FL_GSE

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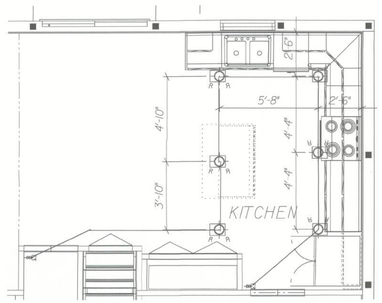
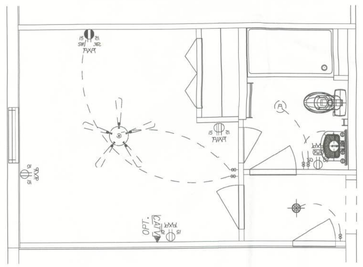
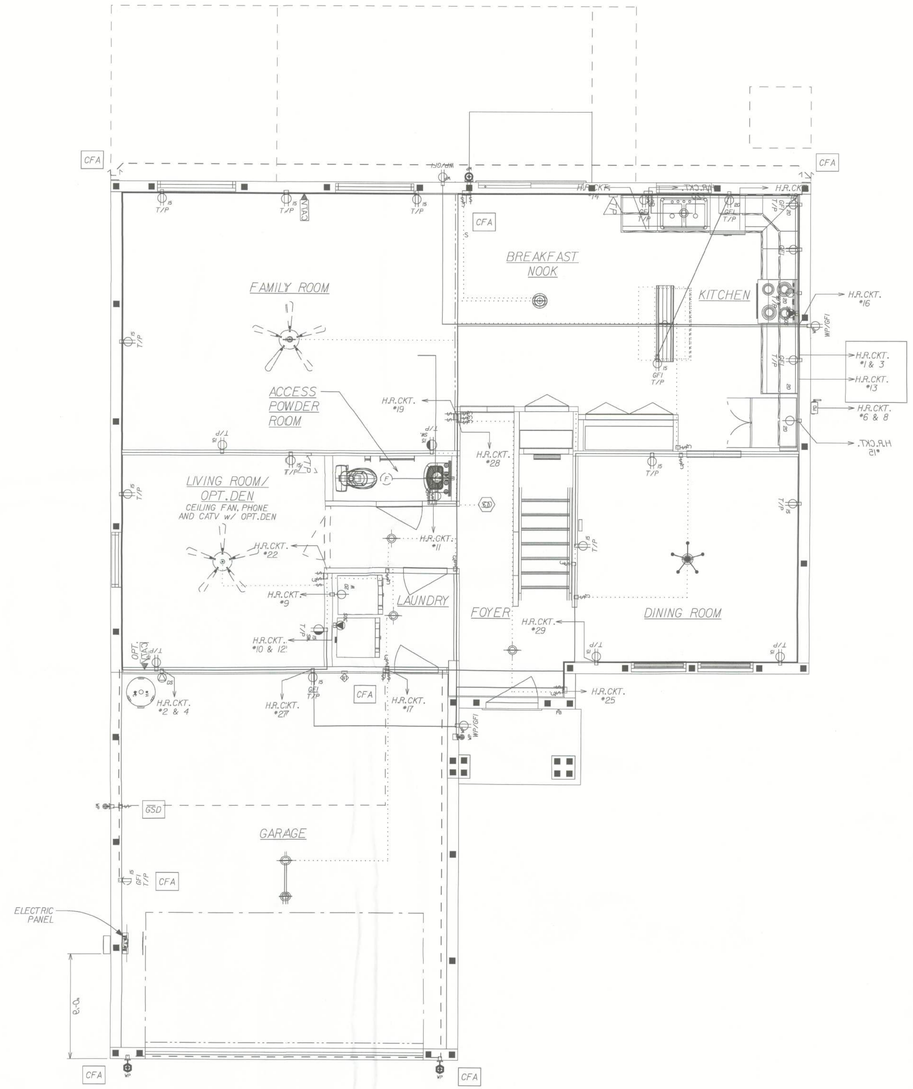


OPT. RECESS LIGHTS



OPT. IST FLOOR BEDROOM



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 01-05-06

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:

REVISED 02-02-09

REGULAR TEXT	REVERSE TEXT	DESCRIPTION, Graphic Symbol May Vary From Actual Fixture
		Power Disconnect Switch
		Door Bell Chime
		Door Bell Buzzer
		Ceiling Fan (By Others)
SD	SD	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW.	SW.	Switched Receptacle
		220 V. Special Receptacle
		Ceiling Ltg Fixture
R	R	Recessed Ltg. Fixture
F	F	Exhaust Fan
CATV	CATV	Cable TV
		Telephone Outlet
		Flood Lights
		Exhaust Fan / Light Combo
		Smoke / Carbon Monoxide Combo
		5-Bulb Dining Chandelier
		Breakfast Nook Opal Globe
		Exterior Overhead Light
		Stair Storage 18" Flourescent or Kitchen Flourescent Cloud

FLORIDA: THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301.0F THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKD TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED

Vult = 180 MPH
Vasd = 124 MPH

PRODUCT REL. DATE	REVISIONS :
03-12-09	03-15-12 REV. PER 2010 FBC : RESIDENTIAL
09-18-09	ADDED 2009 NEC NOTE - C.B.K.
05-03-10	ADDED ELECT. FOR DEN OPT.
09-21-10	REV. ADD RECESS LIGHTS
07-05-12	ADDED 1ST FLR. BEDROOM

Maronda Homes

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(407) 321-0064

AMERICANA | 1st Flr. ELECTRICAL

BEDFORD

ELEVATION - A

DRAWN BY: C.B.K. | GARAGE: LEFT
RELEASE DATE: 06-13-08

14-29-03

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 15 2012

Tomas Ponce MSCE, PE
FL. PE. LIC. #50068

SHEET:

ELI

PLOT DATE: 05 JUL 2012

g:\fl_gse\houses\bedford\electric\elevA\400e_bed_ell-1.ell

* ALL RECEPTACLES IN THIS LAYOUT TO BE TAMPER-PROOF RECEPTACLES *

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

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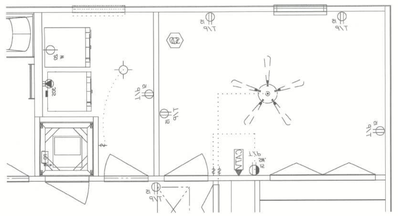
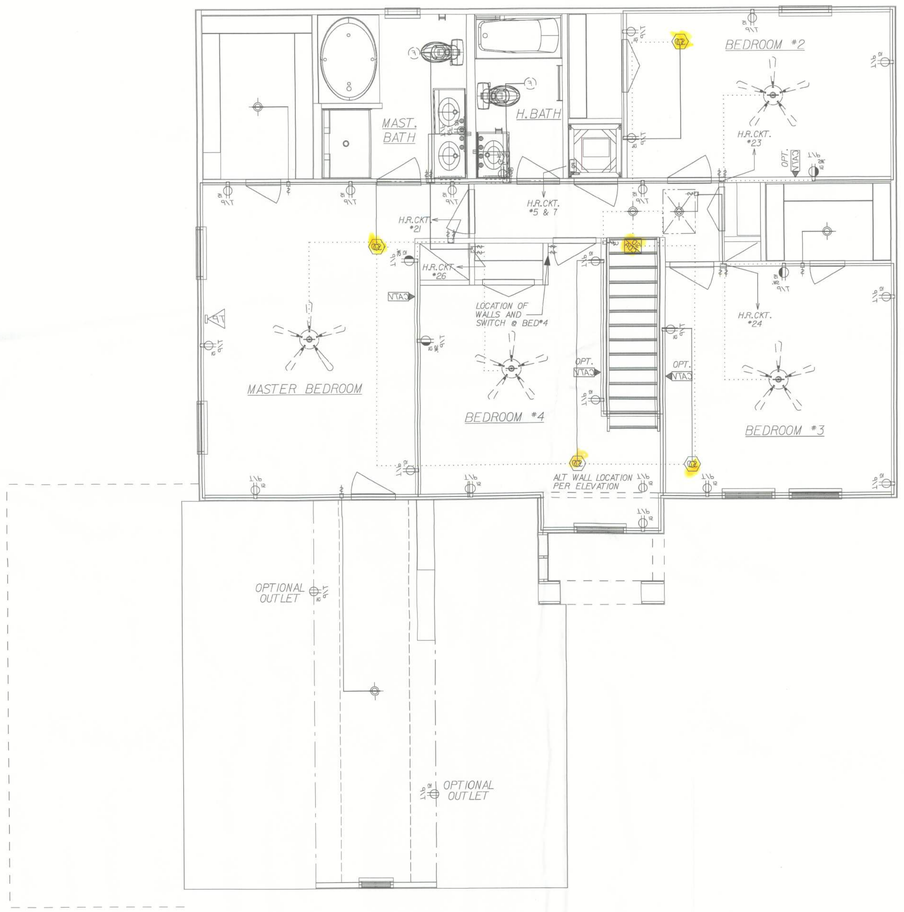


OPT. LAUNDRY ROOM LAYOUT



* ALL RECEPTACLES IN THIS LAYOUT TO BE TAMPER-PROOF RECEPTACLES *

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 10-15-06

LIST OF OPTIONS:

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

ELECTRICAL SYMBOL LEGEND:

REVISED 02-02-09

REGULAR TEXT	REVERSE TEXT	DESCRIPTION, Graphic Symbol May Vary From Actual Fixture
PS	PS	Power Disconnect Switch
		Door Bell Chime
		Door Bell Buzzer
		Ceiling Fan (By Others)
SD	D2	Smoke Detector
		Light Fixture Bath
		Exterior WP Lamp
		Single Pole Switch
		Three Way Switch
		Single Receptacle
		Duplex Receptacle
GFI	GFI	GFI Receptacle
SW	WS	Switched Receptacle
		220 V.Special Receptacle
		Ceiling Ltg Fixture
IR	IR	Recessed Ltg.Fixture
F	F	Exhaust Fan
CATV	TV	Cable TV
TF	TF	Telephone Outlet
		Flood Lights
F L	F L	Exhaust Fan / Light Combo
SD	SD	Smoke / Carbon Monoxide Combo
		5-Bulb Dining Chandelier
		Breakfast Nook Opal Globe
		Exterior Overhead Light
		Stair Storage 18' Flourescent or Kitchen Flourescent Cloud

PRODUCT REL.DATE | 03-02-09

REVISIONS :	
05-19-10	ADDED OPTIONAL OUTLETS @ MASTER BEDRM
09-18-09	ADDED 2009 NEC NOTE- C.B.K.
03-15-12	REV. PER 2010 FBC -RESIDENTIAL

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

FLORIDA:
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DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

AMERICANA | 2nd Flr. ELECTRICAL

BEDFORD

ELEVATION - A

DRAWN BY: C.B.K. | GARAGE: LEFT

RELEASE DATE: 06-13-08

TOMAS PONCE LICENSE No. 50068 STATE OF FLORIDA PROFESSIONAL ENGINEER

AUG 15 2012

Tomas Ponce MSCE, PE
FL.PE.LIC.#50068

SHEET:
EL2

g:\fl_gse\houses\bedford\electric\elev\400e_bed_el2-1.el2

J5.22.13

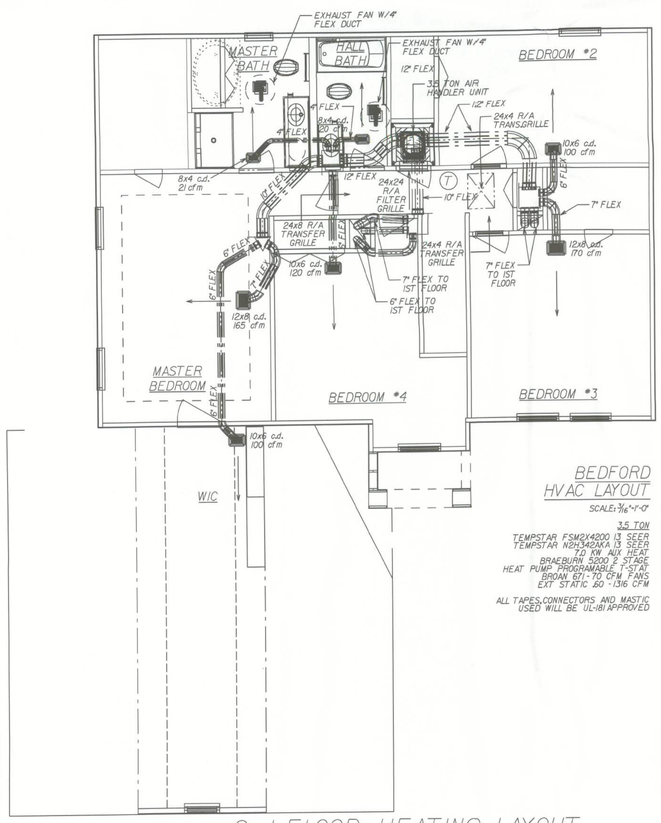
PLOT DATE: 05 JUL 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

...\eleve\400e_bed_el2-1.el2 Jul. 05, 2012 15:22:13

* USE WITH 14 SEER EQUIPMENT *



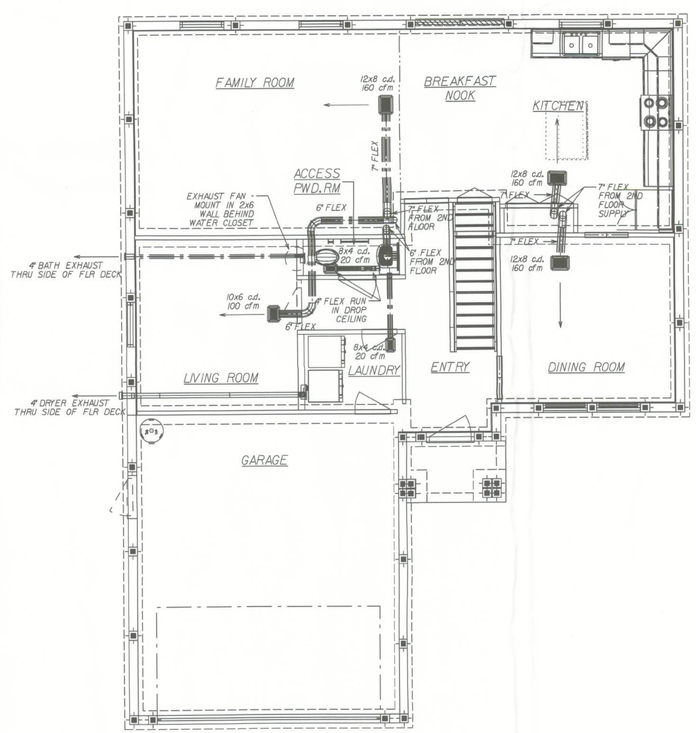
2nd. FLOOR HEATING LAYOUT

BEDFORD HVAC LAYOUT

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

3.5 TON
TEMPSTAR FSM2X4200 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.0 KW AUX HEAT
BRAEBURN 5200 2 STAGE
HEAT PUMP PROGRAMABLE T-STAT
BROAN 671-70 CFM FANS
EXT STATIC .50 -1316 CFM

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



1st. FLOOR HEATING LAYOUT

APPROXIMATE LOCATION OF A/C UNIT AND PAD.

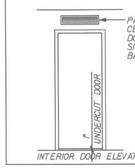
GENERAL MECHANICAL NOTES:

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

PRODUCT REL DATE 03-02-09

REVISIONS :

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2001 - RESIDENTIAL ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS, EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 150 MPH
Vasd = 124 MPH

AMERICANA | REGISTER LAYOUT

BEDFORD

DRAWN BY: TJ TOOMEY | GARAGE: LEFT

RELEASE DATE: 07/10/08

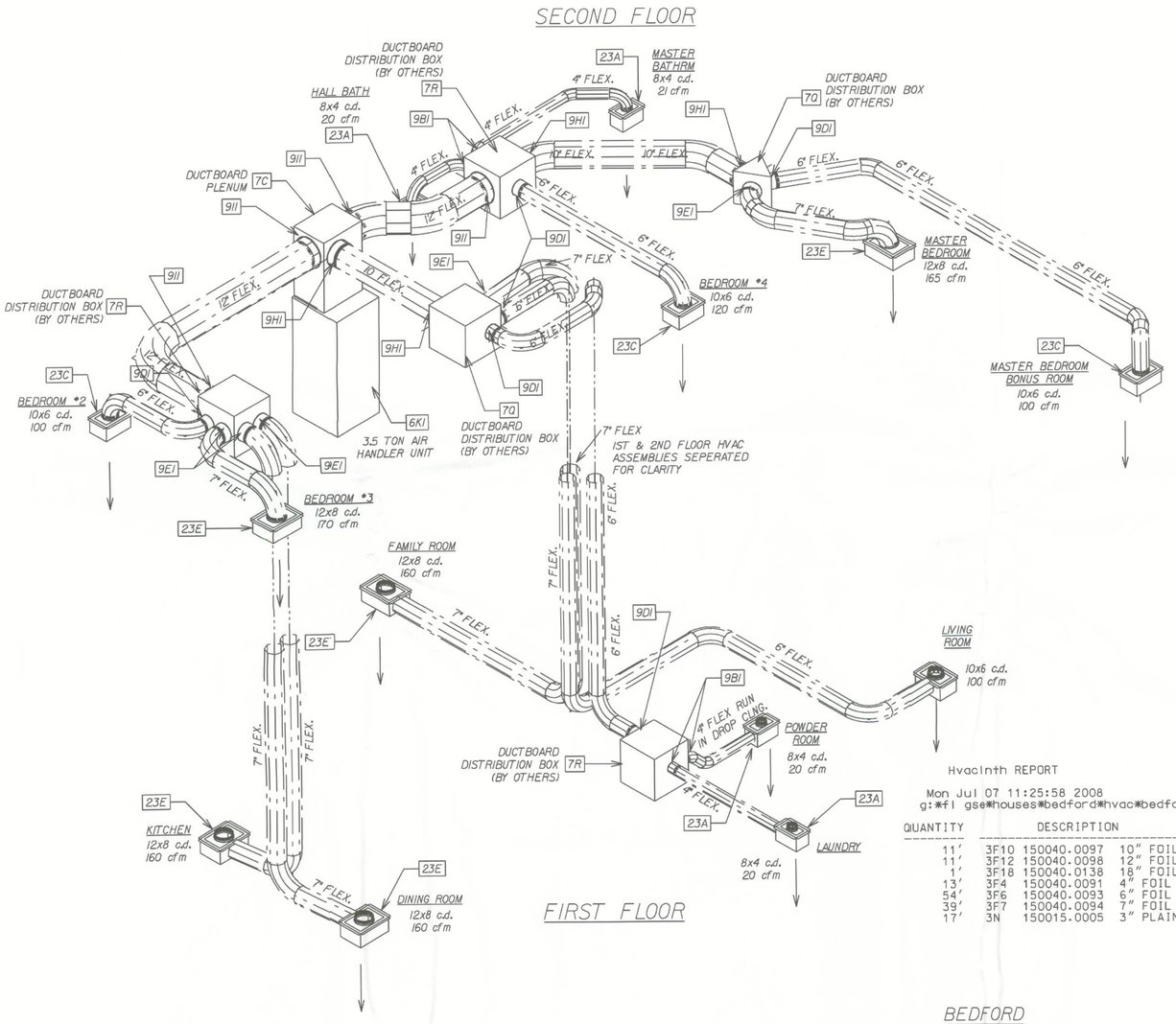
13-46.02

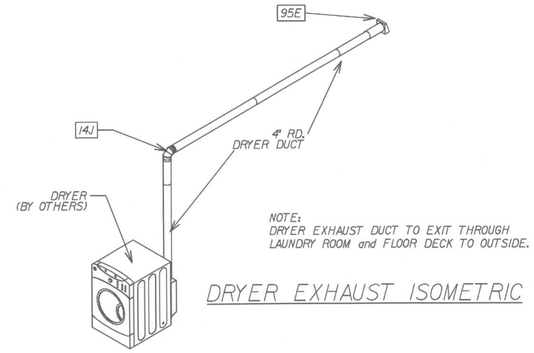
SHEET:
HVA

FL_GSE

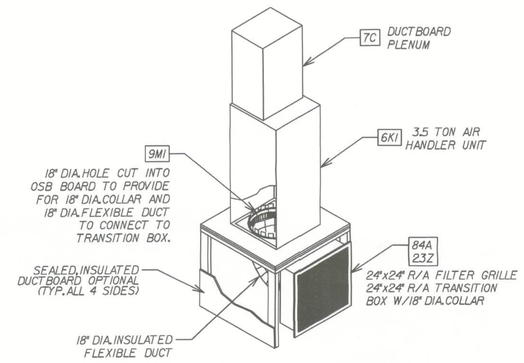
GN1_gse\houses\bedford\hvac\bedf dh-1.hva

* USE WITH 14 SEER EQUIPMENT *





DRYER EXHAUST ISOMETRIC



RETURN AIR ISOMETRIC

Hvacinth REPORT

Mon Jul 07 11:25:58 2008
g:*fl gse*houses*bedford*hvac*bedfdh.htg

QUANTITY	DESCRIPTION		
11'	3F10	150040.0097	10" FOIL FLEX R6
11'	3F12	150040.0098	12" FOIL FLEX R6
1'	3F18	150040.0138	18" FOIL FLEX R6
13'	3F4	150040.0091	4" FOIL FLEX R6
54'	3F6	150040.0093	6" FOIL FLEX R6
39'	3F7	150040.0094	7" FOIL FLEX R6
17'	3N	150015.0005	3" PLAIN FLEX (NIS)

BEDFORD
HVAC ISOMETRIC

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

3.5 TON
TEMPSTAR FSM2X4200A 13 SEER
TEMPSTAR N2H342AKA 13 SEER
7.0 KW AUX HEAT
BRAEBURN 5200 2 STAGE
HEAT PUMP PROGRAMABLE T-STAT
BROAN 671-70 CFM FANS
EXT STATIC .60 - 1316 CFM

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

hvacitem REPORT

Mon Jul 07 11:25:58 2008
g:*fl gse*houses*bedford*hvac*bedfdh.htg

QUANTITY		DESCRIPTION	
1	14A	150020.0014	4" 30 GA. 90 ELBOW
2	1A	150020.0013	4" 30 GA. PIPE 2'
3	1B	150020.0001	4" 30 GA. PIPE 5'
4	23A	150045.0035	8x4 CEILING BOOT W/4" DIA. COLLAR
4	23C	150045.0036	10x6 CEILING BOOT W/6" DIA. COLLAR
5	23E	150045.0038	12x8 CEILING BOOT W/7" DIA. COLLAR
1	23Z	150045.0046	24x24 R/A TRANSITION BOOT W/18" COLLAR
2	33A	150020.0031	4" DIA. END CAP (4EC/422)
2	3F10	150040.0097	10" FOIL FLEX 45 R6
2	3F12	150040.0098	12" FOIL FLEX 45 R6
1	3F12	150040.0098	12" FOIL FLEX 90 R6
1	3F18	150040.0138	18" FOIL FLEX 90 SR R6
3	3F4	150040.0091	4" FOIL FLEX 45 R6
4	3F4	150040.0091	4" FOIL FLEX 90 R6
3	3F6	150040.0093	6" FOIL FLEX 45 R6
11	3F6	150040.0093	6" FOIL FLEX 90 R6
4	3F7	150040.0094	7" FOIL FLEX 45 R6
9	3F7	150040.0094	7" FOIL FLEX 90 R6
2	3N	150015.0005	3" PLAIN FLEX 45 (NIS)
3	3N	150015.0005	3" PLAIN FLEX 90 (NIS)
1	6K1	150005.0044	FSU4X4200A 13 SEER 3.5 TON AIR HANDLER UNIT
1	6Q1	150010.0104	N4H342AKD 13 SEER 3.5 TON CONDENSER
1	7C	150005.0110	19x13x30"H BOX PLENUM
1	7Q	150040.0118	DUCT PLENUM TRIANGLE
4	7R	150040.0111	18" SQUARE DUCT PLENUM
2	81A	150055.0041	24x4 TRANSFER GRILLE
2	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	86A	150060.0153	RECESSED DRYER VENT BOX
3	95A	150055.0012	EXHAUST FAN (696N)
1	95D	150020.0011	4" Exhaust Vent Cap
1	95E	150020.0007	4" DRYER VENT
2	95J	120010.0011	4" ROOF CAP W/DAMPER
2	9B	150020.0005	4" COLLAR
4	9B1	150040.0075	4" K-COLLAR/ROTH (4KC/413)
6	9D1	150040.0077	6" K-COLLAR/ROTH (6KC/413)
5	9E1	150040.0078	7" K-COLLAR/ROTH (7KC/413)
4	9H1	150040.0081	10" K-COLLAR/ROTH (10KC/413)
4	9I1	150040.0082	12" K-COLLAR/ROTH (12KC/413)
1	9M1	150040.0137	18" K-COLLAR/ROTH (18KC/413)

PRODUCT REL DATE 03-02-09

REVISIONS :

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

FLORIDA:
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DESIGNED WIND SPEED
****
Vult = 160 MPH
Vasd = 124 MPH

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AMERICANA HVAC ISOMETRIC

BEDFORD

GARAGE: LEFT

DRAWN BY: TJ TOOMEY

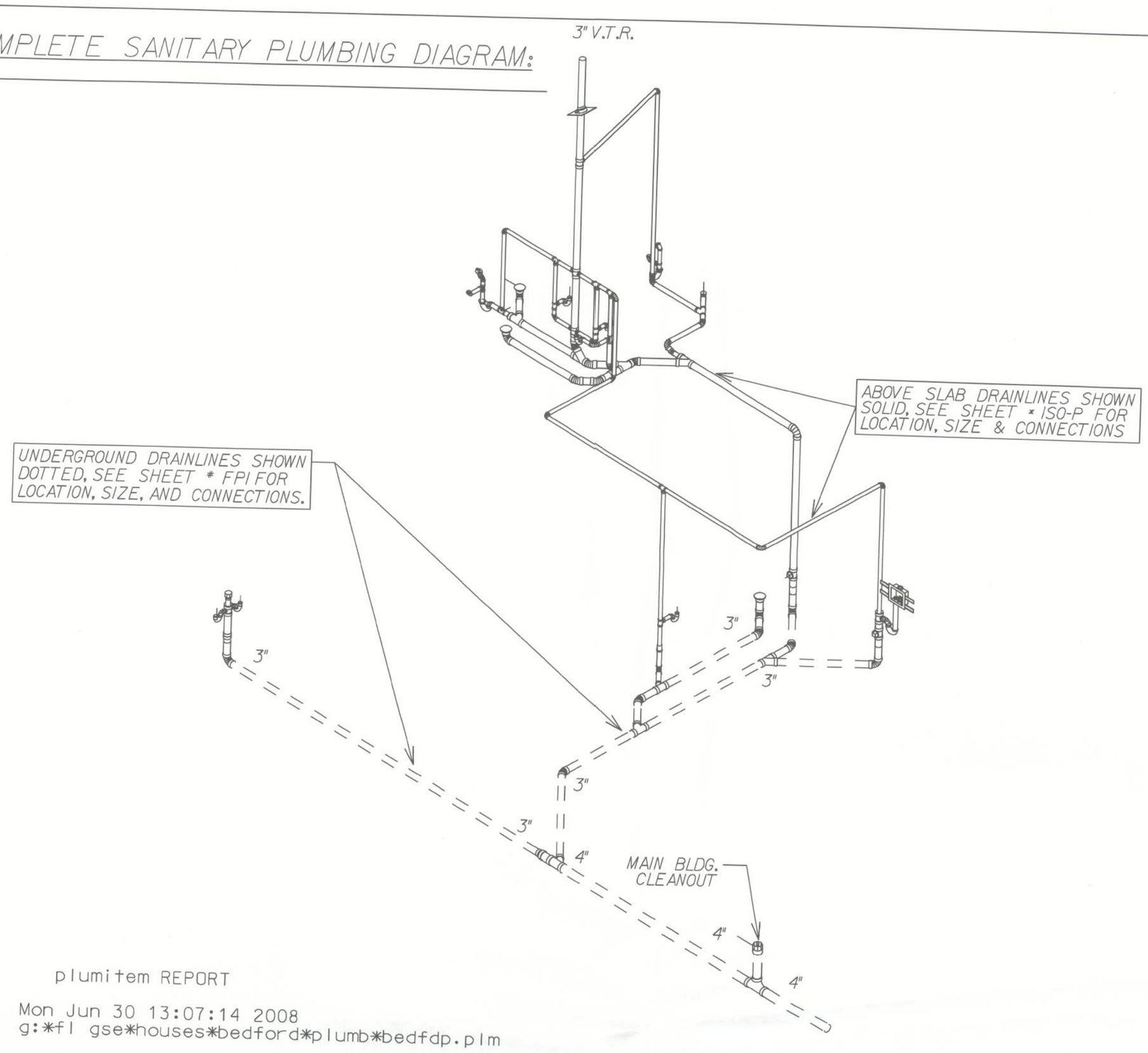
RELEASE DATE: 07/10/08

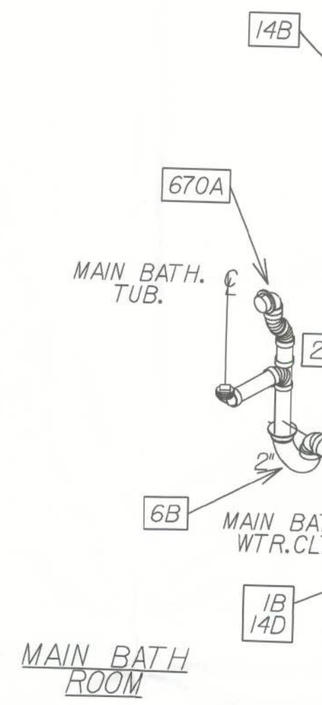
13:46:04

SHEET: ISO

FL_GSE

COMPLETE SANITARY PLUMBING DIAGRAM:

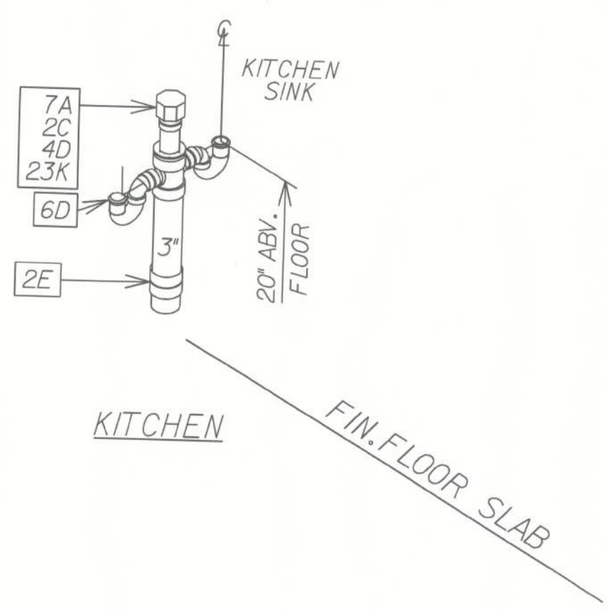




plumitem REPORT

Mon Jun 30 13:07:14 2008
g:*fl gse*houses*bedford*plumb*bedfdp.plm

QUANTITY	DESCRIPTION		
9	14B	130005.0013	1.5" PVC 90 ELBOW
1	14C	130005.0041	2" PVC 90 ELBOW
3	14D	130005.0066	3" PVC 90 ELBOW
1	15B	130005.0015	1.5" PVC 90 ST. ELBOW
1	18C	130005.0053	2" PVC 45 WYE
3	18E	130005.0076	3" PVC 45 WYE
2	1B	130005.0099	4"X3" CLOSET FLANGE
1	20A	130005.0262	3" PVC 45 ST. WYE
1	20C	130005.0264	3"x3"x2" PVC 45 ST. WYE
2	21C	130005.0039	2" PVC 45 ELBOW
3	21D	130005.0064	3" PVC 45 ELBOW
1	22C	130005.0040	2" PVC 45 ST. ELBOW
2	22D	130005.0065	3" PVC 45 ST. ELBOW
7	23B	130005.0024	1.5" PVC TEE
1	23G	130005.0029	2"x1.5"x1.5" PVC TEE
2	23I	130005.0034	2"x2"x1.5" PVC TEE
1	23K	130005.0056	3"x3"x1.5" PVC TEE
1	23L	130005.0062	3"x3"x2" PVC TEE
3	26E	130005.0132	3"x3"x1.5"x1.5" DOUBLE TEE
2	28C	130005.0070	3" TEST TEE W/CO PLUG
1	2C	130005.0043	2" PVC COUPLING
1	2D	130005.0033	2x1.5 PVC REDUCER COUPLING
1	2E	130005.0068	3" PVC COUPLING
1	3B	130035.0149	4"x3" ADJUSTABLE FITTING CLOSET FLANGE
1	46C	130050.0028	3" NEOPRENE ROOF FLASHING
2	4B	130005.0032	2x1.5 FTG FL BUSHING
1	4C	130005.0054	3x1.5 FTG FL BUSHING
3	4D	130005.0059	3x2 FTG FL BUSHING
1	620A	130035.0027	2" WMOB QUADTRO LAUNDRY BOX #38531
1	670A	130005.0105	1 1/2" WATCO TUB OVERFLOW ASSEMBLY
1	670B	130005.0105	1 1/2" WATCO ST. TUB OVERFLOW ASSEMBLY
1	6B	130005.0046	2" P-TRAP
1	6B	130005.0046	2" P-TRAP PartA
1	6B	130005.0046	2" P-TRAP PartB
2	6B	130005.0046	2" P-TRAP
6	6D	130005.xxxx	1.5"x1.5" P-TRAP W/UNION JT
1	7A	130005.0160	1.25-2" STUDOR MINI-VENT
1	8B	130005.0037	2" PVC 22.5 ELBOW



PlumInth REPORT

Mon Jun 30 13:07:14 2008
g:*fl gse*houses*bedford*plumb*bedfdp.plm

QUANTITY	DESCRIPTION	
79'	130005.0023	1.5" PIPE
12'	130005.0047	2" PVC PIPE
44'	130005.0072	3" PVC PIPE

PRODUCT APPROVAL INFORMATION SHEET FOR FLORIDA

Project Name:_____ **Permit #**_____

Project Address:_____

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

REVISED 7-13-2011

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	*APPROVAL #*	Design Pressures
A. EXTERIOR DOORS					
1. Swinging	Plastpro Inc. / Nanya Plastics Corp.	Fiberglass Dr Single Fiberglass Dr w/ Sidelite Fiberglass Dr w/ Dbl Sidelites Fiberglass Dr Single Glazed Fiberglass DBL Fr Dr Glazed	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads for Building and Other Structures.	FL **15213.1** FL **15213.4** FL **15213.5** FL **15215.1** FL **15215.4**	+65 / -70 +50 / -50 +50 / -50 +50 / -50 +50 / -50
2. Sliding	MI Windows & Doors	420/430/440 Aluminum Sliding Glass Door	Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 11956	**+35 /-35**
3. Sectional					
4. Roll up	Wayne Dalton Corp.	Garage Doors 9100 / 5120 10'-16' 8' – 9' 10'-16' 8' – 9'	As indicated in evaluation report and installation drawings. Not to be used in HVHZ.	FL 9174.3 FL 9174.1 FL 9174.6 FL 9174.5	+25.9 /-28.8 +26.9 /-30.8 +39.2 /-43.7 +43.2 /-49.6
B. WINDOWS					
1. Single hung	MI Windows & Doors	Series 740/3740	53" x 76"Max Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 11827	+45 / -45

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	*APPROVAL #*	Design Pressures
2. Horizontal slider	MI Windows & Doors	Series 188	62"x 73"OX Max Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL **15351-R1**	**+55 /-55**
5. Fixed	MI Windows & Doors	Series 740/3740	73"x71"Max Windows have not been evaluated for use in High Velocity Hurricane Zones.	FL 11825	+45 / -45
7. Pass-through					
8. Projected					
9. Mullion	MI Windows & Doors	Mullion: 5764 5765 5766A 5767	Evaluated for use in locations adhering to the Florida Building Code and where pressure requirements as determined by ACSE 7 Minimum Design Loads for Building and Other Structures.	FL 15353.3 FL 13402.2 FL 15353.6 FL 15353.7	N/A
10. Wind breaker					
11. Dual action					
12. Other					
C. PANEL WALL					
1. Siding	James Hardie Building Products, Inc. CertainTeed Corp. siding Products	HardiePlank Lap Siding HardieShingle Siding (Cemplank fiber-cement siding) CertainTeed Vinyl Siding	Approved for use in HVHZ and outside HVAZ. Impact resistant Not approved for use in HVHZ. Used for exterior cladding only.	FL 13192 FL 1573	N/A N/A +N/A/-91
2. Soffit	ALUMINUM COILS INC.	16" FULL VENT	For use as soffit only. Not for use in HVHZ.	FL 12194-R1	+48.0/64.2
D. ROOFING PRODUCTS					
1. Asphalt shingles	Owens Corning Certain Teed Corp.	Asphalt Shingle Asphalt Shingle	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade Must be followed.	FL 10674-R6 FL 5444-R4	N/A N/A
2. Concrete Roof Tile	Entegra Roof Tile Inc	Concrete Roof Tile	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade Must be followed.	FL 7804-R6	N/A N/A

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	*APPROVAL #*	Design Pressures
2. Underlayments	WOODLAND INDUSTRIES, INC.	15# Felt Paper Underlayment	For use under discontinuous roofing systems with slopes greater than 2:12. Not to be used in HVHZ.	FL **1814-R6**	N/A
4. Nonstructural metal roof					
5. Built-up roofing					
6. Modified bitumen	Polyglass USA	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-R10	+N/A /-622.5
7. Single ply roofing					
8. Roofing tiles					
9. Roofing insulation					
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 Lamanco	Ridge Vent Off Ridge Vent	This Approval not for use in the HVHZ. All FBC sections that apply to counties except Broward and Miami-Dade Must be followed.	FL 10758-R2 FL 3792-R6	N/A N/A
E. SHUTTERS					
1. Storm Panels	ASI Building Products GLOBAL PROTECTION PRODUCTS KD Manufacturing	.018" Galvanized Steel Storm Panels 24 GA Steel Panel KD STORM PANEL	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 or Basic Wind Speed > 140.	FL 7989-R5 FL **15076.2** FL 2773-R3	+70 / -70 N/A N/A N/A

Category/Subcategory	Manufacturer	Product Description	Limitation of Use	*APPROVAL #*	Design Pressures
F. STRUCTURAL COMPONENTS					
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.	**FL578-R3, FL817-R3 FL820-R3, FL821-R3 FL822-R3 FL1247-R2 FL2033-R3 FL5631-R2 FL6223-R2 FL10739-R1 FL11664-R1 FL 11748-R1 FL 13170-R1 FL 13285-R1 FL 14500-R1 FL 15143 FL 15456 FL 15458**	
2. Truss plates	Mitek Industries Inc.	Truss Connectors	No Limitation of Use.	FL 2197 R4	N/A
3. Engineered lumber	Weyerhaeuser	Floor components	NO HVHZ	**FL 6527-R5** **FL 1630-R7**	
5. Coolers-freezers					
6. Concrete admixtures					
7. Material					
8. Insulation forms					
9. Plastics					
10. Deck-roof					
11. Wall					
12. Sheds					
13. Other	Powers Steel Inc.	PSbox8 PSbox8(5-5/8)	Lintels shall not exceed the allowable design load and spans. The lintels shall not be used in a fire resistance rated assembly. A proper barrier is required when using corrosive lumber products in contact with steel lintels. Not for use in HVHZ Miami or Broward counties at this time.	**FL 3119-R3** **FL 5450-R2** **FL 11383-R1**	N/A
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 a 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:_____

PRODUCT REL. DATE
REVISIONS :
03/5/12 REV. PER 2010 FBC - RESIDENTIAL

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS.EXPOSURE B,ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

Florida Product Approval
GARAGES
DRAWN BY: Fessia
RELEASE DATE:
08:53:33

SHEET:
FL-PA

g:\fl_gse\title_blks\24x36-standard.brd
PLOT DATE:10 MAY 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL
FL_GSE

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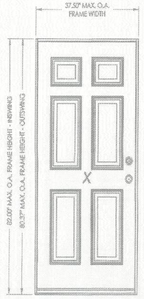
plastpro

5200 W. CENTURY BLVD.
LOS ANGELES, CA 90045

Smooth / Wood Grain / White Wood Grain Rustic / Mahogany Series Fiberglass Door

INSWING / OUTSWING "IMPACT"



GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 2010 Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and Section 1609.1.2.4 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS

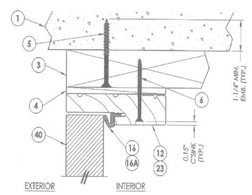
SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF) POSITIVE	NEGATIVE
INSWING	37.50" x 82.00"	+65.0	-70.0
OUTSWING	37.50" x 80.37"	+65.0	-65.0

Documents Prepared By: RW PUBLISHING CONSULTANTS, INC. P.O. Box 530 Valrico, FL 33595 Phone No.: 813-689-6197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 42409

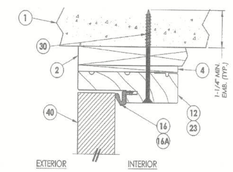
PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: TITLE PAGE, DESIGN PRESSURE & GENERAL NOTES

NO.	DATE	REVISIONS	BY

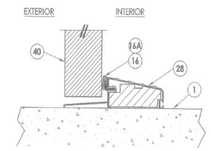
DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 1 of 7



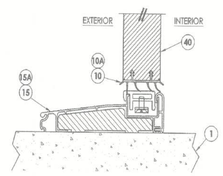
1/4 VERTICAL CROSS SECTION
Outswing shown - Inswing also approved



2/4 VERTICAL CROSS SECTION
Shown w/1X sub-buck



3/4 VERTICAL CROSS SECTION
Outswing configuration



4/4 VERTICAL CROSS SECTION
Inswing configuration

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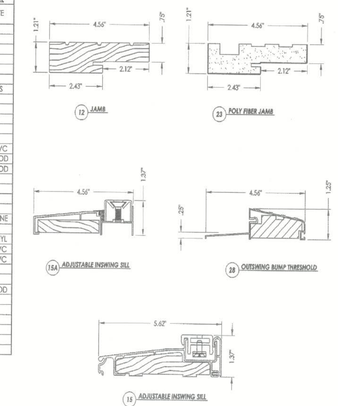
PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 4 of 7

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
1	MASONRY - 3,192 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
2	1X BUCK SG >= 0.55	WOOD
3	2X BUCK SG >= 0.55	WOOD
4	1/4" MAX. SHIM SPACE	WOOD
5	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
6	#10 x 2-1/2" PFH WOOD SCREW	STEEL
8	#9 x 3/4" PFH WOOD SCREW	STEEL
9	DOOR SKIN (MIN. 0.075" THICK)	FIBERGLASS
10	INSWING VINYL DOOR BOTTOM SWEEP BY ENDURA	VINYL
10A	VINYL DOOR BOTTOM SWEEP #3628 BY HOLM IND.	VINYL
11	REINFORCEMENT WOOD FOR LOCK	WOOD
12	FINGER JOINTED PINE JAMB	WOOD
13	#9 x 0.1/4" PFH WOOD SCREW	STEEL
14	BOTTOM RAIL	CELLULAR PVC
15	INSWING ADJUSTABLE THRESHOLD BY ENDURA	ALUM. / WOOD
15A	INSWING ADJUSTABLE ALUMINUM THRESHOLD BY DLP	ALUM. / WOOD
16	FORCE 5 WEATHER STRIPPING BY ENDURA	FOAM
16A	COMPRESSION WEATHER STRIP QLON 650 BY SCHLEGEL	FOAM
17	KWIKSET KEYED ENTRY - SIGNATURE SERIES	STEEL
18	KWIKSET DEADBOLT - SIGNATURE SERIES (780)	STEEL
20	POLYURETHANE FOAM BY NANYA	POLYURETHANE
21	4" x 4" BUTT HINGE	STEEL
23	POLY FIBER JAMB	COMP. / VINYL
24	HINGE & LATCH STILE	CELLULAR PVC
25	TOP RAIL	CELLULAR PVC
26	DEADBOLT STRIKE PLATE	STEEL
27	LATCH STRIKE PLATE	STEEL
28	OUTSWING BUMP THRESHOLD	ALUM. / WOOD
29	HINGE & LATCH STILE REINFORCEMENT	LVL
30	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL
31	#9 x 1" PFH WOOD SCREW	STEEL
32	1/4" x 3-1/4" PFH ITW CONCRETE SCREW	STEEL
33	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-



12 JAMB
23 POLY FIBER JAMB
15A ADJUSTABLE INSWING SILL
28 OUTSWING BUMP THRESHOLD
12 ADJUSTABLE INSWING SILL

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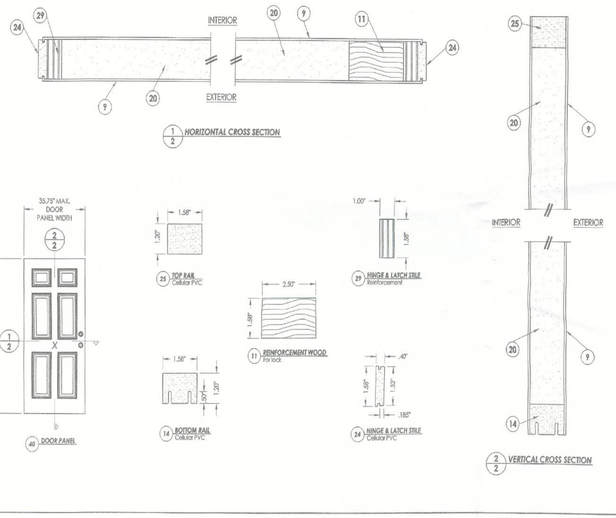
PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	REVISIONS	BY

DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 7 of 7



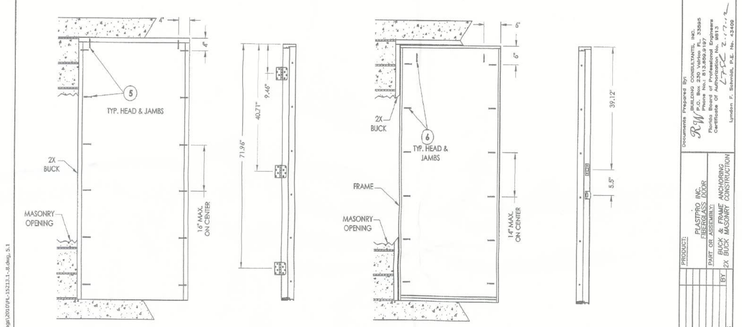
1/2 HORIZONTAL CROSS SECTION
40 DOOR PANEL
23 TOP RAIL Cellular PVC
14 BOTTOM RAIL Cellular PVC
11 REINFORCEMENT WOOD For lock
29 HINGE & LATCH STILE Reinforcement
24 HINGE & LATCH STILE Cellular PVC
2/2 VERTICAL CROSS SECTION

Documents Prepared By: RW PUBLISHING CONSULTANTS, INC. P.O. Box 530 Valrico, FL 33595 Phone No.: 813-689-6197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 42409

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY

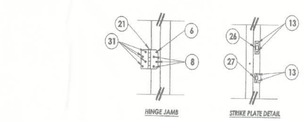
DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 2 of 7



BUCK ANCHORING
HINGE JAMB
FRAME ANCHORING Masonry 2X buck construction
STRIKE JAMB

CONCRETE ANCHOR NOTES:
1. Substitution of equal concrete anchors from a different supplier may have different edge distance and center distance requirements.
2. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints. If concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimensions are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ELCO	1/4"	1-1/4"	1"	4"



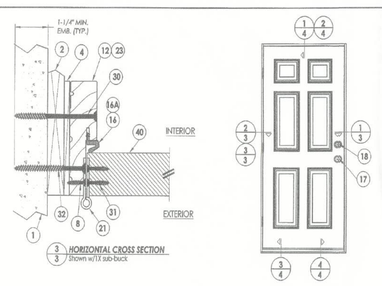
HINGE JAMB
STRIKE PLATE DETAIL

Documents Prepared By: RW PUBLISHING CONSULTANTS, INC. P.O. Box 530 Valrico, FL 33595 Phone No.: 813-689-6197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 42409

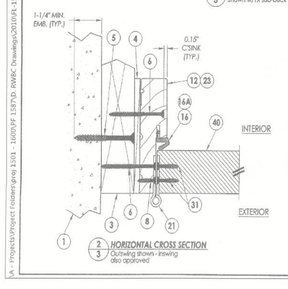
PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: BUCK & FRAME ANCHORING 2X BUCK MASONRY CONSTRUCTION

NO.	DATE	REVISIONS	BY

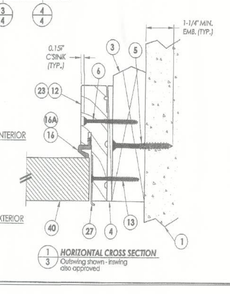
DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 5 of 7



3/3 HORIZONTAL CROSS SECTION
Shown w/1X sub-buck



2/3 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



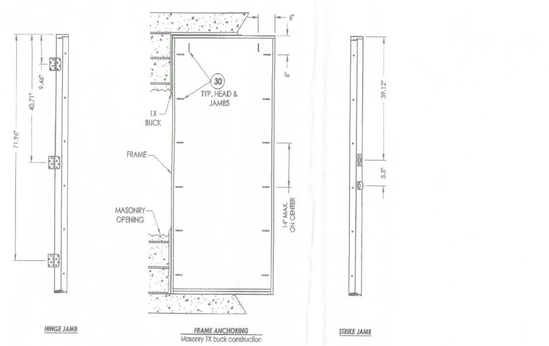
1/3 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved

Documents Prepared By: RW PUBLISHING CONSULTANTS, INC. P.O. Box 530 Valrico, FL 33595 Phone No.: 813-689-6197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 42409

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 3 of 7



HINGE JAMB
FRAME ANCHORING Masonry 1X buck construction
STRIKE JAMB

CONCRETE ANCHOR NOTES:
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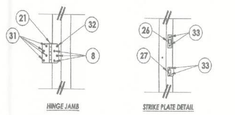
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW	1/4"	1-1/4"	2-1/2"	3"
ITW	3/16"	1-1/4"	2-5/8"	2-1/4"



HINGE JAMB
STRIKE PLATE DETAIL

Documents Prepared By: RW PUBLISHING CONSULTANTS, INC. P.O. Box 530 Valrico, FL 33595 Phone No.: 813-689-6197 Florida Board of Professional Engineers Certificate of Authorization No. 9813 Lyndon F. Schmidt, P.E. No. 42409

PRODUCT: PLASTPRO INC. FIBERGLASS DOOR — PART OR ASSEMBLY: 1X BUCK MASONRY CONSTRUCTION

NO.	DATE	REVISIONS	BY

DATE: 02/16/12 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-15213.1 SHEET 6 of 7

Product Approval
FL# 15213.1

PRODUCT REL DATE

REVISIONS :

03-15-12 REV. PER 2010 FBC - RESIDENTIAL

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS.EXPOSURE B,ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

SINGLE DOOR
FIBERGLASS EXTERIOR DOORS
INSWING / OUTSWING

DRAWN BY: FESSIA
RELEASE DATE:

SHEET:
ED-0

g:\fl_gse\title_blks\24x36-standard.brd
PLOT DATE: 16 MAR 2012 13:34:20

FLORIDA BUILDING CODE 2010 : RESIDENTIAL

FL_GSE

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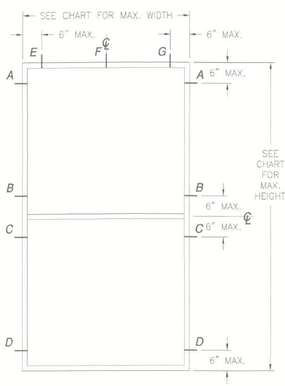
Product Approval FL#11827 Single Hung

WINDOW		ANCHOR LOCATIONS UP TO 35PSF		ANCHOR LOCATIONS UP TO 40PSF		ANCHOR LOCATIONS UP TO 45PSF		ANCHOR LOCATIONS UP TO 47PSF*	
WIDTH	HEIGHT	HEAD	JAMBS	HEAD	JAMBS	HEAD	JAMBS	HEAD	JAMBS
18	24	F	A,D	F	A,D	F	A,D	F	A,D
18	30	F	A,D	F	A,D	F	A,D	F	A,D
18	36	F	A,D	F	A,D	F	A,D	F	A,D
18	42	F	A,D	F	A,D	F	A,D	F	A,B,D
18	48	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
18	54	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
18	60	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
18	66	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
18	72	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,C,D
24	24	F	A,D	F	A,D	F	A,D	F	A,D
24	30	F	A,D	F	A,D	F	A,D	F	A,D
24	36	F	A,D	F	A,D	F	A,D	F	A,D
24	42	F	A,D	F	A,D	F	A,D	F	A,B,D
24	48	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
24	54	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
24	60	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
24	66	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
24	72	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,C,D
30	24	F	A,D	F	A,D	F	A,D	F	A,D
30	30	F	A,D	F	A,D	F	A,D	F	A,D
30	36	F	A,D	F	A,D	F	A,D	F	A,D
30	42	F	A,D	F	A,D	F	A,D	F	A,B,D
30	48	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
30	54	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
30	60	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
30	66	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
30	72	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,C,D
36	24	F	A,D	F	A,D	F	A,D	F	A,D
36	30	F	A,D	F	A,D	F	A,D	F	A,D
36	36	F	A,D	F	A,D	F	A,D	F	A,D
36	42	F	A,D	F	A,D	F	A,D	F	A,B,D
36	48	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
36	54	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
36	60	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
36	66	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
36	72	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,C,D
42	36	F	A,D	F	A,D	F	A,D	F	A,D
42	42	F	A,D	F	A,D	F	A,D	F	A,B,D
42	48	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
42	54	F	A,B,D	F	A,B,D	F	A,B,D	F	A,B,D
42	60	F	A,B,D	F	A,B,D	F	A,B,D	E,G	A,B,D
42	66	F	A,B,D	F	A,B,D	E,G	A,B,D	E,G	A,B,D
42	72	F	A,B,D	F	A,B,D	E,G	A,B,C,D	E,G	A,B,C,D
48	36	F	A,D	F	A,D	F	A,D	F	A,D
48	42	F	A,D	F	A,D	F	A,D	F	A,B,D
48	48	F	A,B,D	F	A,B,D	E,G	A,B,D	E,G	A,B,D
48	54	F	A,B,D	F	A,B,D	E,G	A,B,D	E,G	A,B,D
48	60	F	A,B,D	E,G	A,B,D	E,G	A,B,D	E,G	A,B,D
48	66	F	A,B,D	E,G	A,B,D	E,G	A,B,C,D	E,G	A,B,C,D
48	72	E,G	A,B,D	E,G	A,B,C,D	E,G	A,B,C,D	E,G	A,B,C,D

*UNITS LISTED UNDER THIS COLUMN ARE RATED +45.0/-47.0PSF



740/3740 SINGLE HUNG FLANGE FRAME
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+ 45.0PSF - 47.0 PSF	NONE

NOTES:
1) THE PRODUCT SHOWN HERE IN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) RESPONSIBILITY OF SELECTING FENESTRATION PRODUCTS TO MEET ANY APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES OR OTHER SAFETY REQUIREMENTS REST SOLELY WITH THE ARCHITECT, ENGINEER OF RECORD, BUILDING OWNER OR CONTRACTOR.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
5) UNITS MUST BE GLAZED PER ASTM E 1300-04.
6) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
7) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
8) FOR ANCHORING INTO MASONRY/CONCRETE AT USE 3/16" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
10) ALL FASTENERS TO BE CORROSION RESISTANT.
11) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
12) FRAME MATERIAL TO BE ALUMINUM 6063-T5
13) APPROVED CONFIGURATIONS: ORIEL AND EQUAL UNITS.
14) MAXIMUM D.L.O. 44 7/8" X 39 1/2"
15) IF EXACT WINDOW SIZE IS NOT GIVEN USE ANCHOR QUANTITY FOR NEXT LARGER SIZE.

SIGNED: 10/21/2011

REV	DESCRIPTION	DATE	APPROVED

TABLE OF CONTENTS

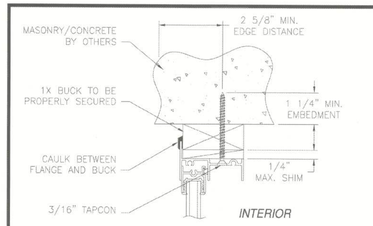
SHEET NO.	DESCRIPTION
1	ELEVATION AND GENERAL NOTES
2	INSTALLATION DETAILS

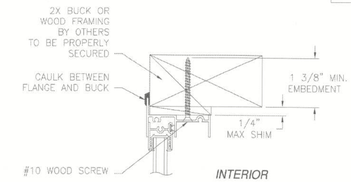
MI WINDOWS AND DOORS
4314 ROUTE 209
ELIZABETHVILLE, PA 17023

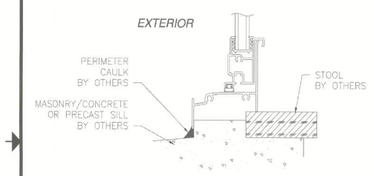
740/3740 ALUMINUM SINGLE HUNG WINDOW
FLANGE FRAME NON-IMPACT
ELEVATION AND NOTES

DRAWN: V.L. | DWG NO. 08-01366 | REV –
SCALE NTS | DATE 10/17/11 | SHEET 1 OF 2

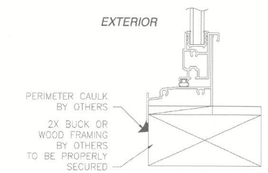
LUIS R. LOMAS LICENSE No. 8251 STATE OF FLORIDA PROFESSIONAL ENGINEER



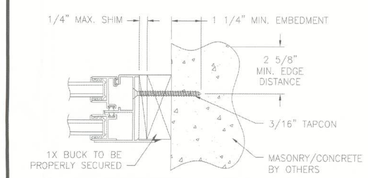




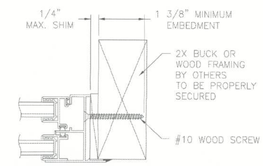
VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION



VERTICAL CROSS SECTION
2XBUCK OR WOOD FRAMING INSTALLATION



JAMB CROSS SECTION
MASONRY/CONCRETE INSTALLATION



JAMB CROSS SECTION
2X BUCK OR WOOD FRAMING INSTALLATION

REV	DESCRIPTION	DATE	APPROVED

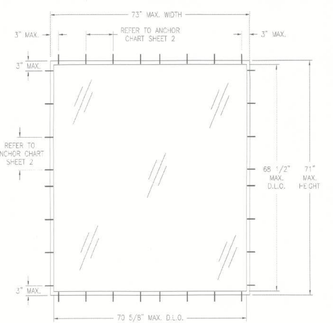
MI WINDOWS AND DOORS
4314 ROUTE 209
ELIZABETHVILLE, PA 17023

740/3740 ALUMINUM SINGLE HUNG WINDOW
FLANGE FRAME NON-IMPACT
INSTALLATION DETAILS

DRAWN: V.L. | DWG NO. 08-01366 | REV –
SCALE NTS | DATE 10/17/11 | SHEET 2 OF 2

LUIS R. LOMAS LICENSE No. 8251 STATE OF FLORIDA PROFESSIONAL ENGINEER

Product Approval FL#11825 FIXED



740/3740 FIXED WINDOW FLANGE FRAME
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±45PSF	NONE

REV	DESCRIPTION	DATE	APPROVED
A	UPDATE PER NEW TESTING	6/9/10	R.L.

NOTES:
1) THE PRODUCT SHOWN HERE IN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) RESPONSIBILITY OF SELECTING FENESTRATION PRODUCTS TO MEET ANY APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES OR OTHER SAFETY REQUIREMENTS REST SOLELY WITH THE ARCHITECT, ENGINEER OF RECORD, BUILDING OWNER OR CONTRACTOR.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
5) UNITS MUST BE GLAZED PER ASTM E 1300
6) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
7) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
8) FOR ANCHORING INTO MASONRY/CONCRETE AT USE 3/16" ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATION AND INSTALLATION DETAILS.
10) ALL FASTENERS TO BE CORROSION RESISTANT.
11) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.
C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
12) FRAME MATERIAL TO BE ALUMINUM 6063-T5 .055 THICK
13) IF EXACT WINDOW SIZE IS NOT GIVEN USE ANCHOR QUANTITY FOR NEXT LARGER SIZE.
14) FOR NUMBER OF ANCHORS REQUIRED AND FOR APPROVED CONFIGURATIONS SEE SHEET 2.

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1	ELEVATION AND GENERAL NOTES
2	ANCHOR CHART AND APPROVED CONFIGURATIONS
3	INSTALLATION DETAILS

MI WINDOWS AND DOORS
4314 ROUTE 209
ELIZABETHVILLE, PA 17023

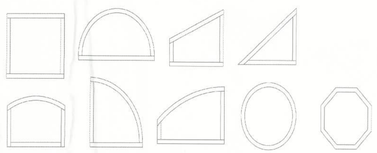
740/3740 ALUMINUM FIXED WINDOW
FLANGE FRAME NON-IMPACT
ELEVATION AND NOTES

DRAWN: R.L. | DWG NO. 08-00803 | REV A
SCALE NTS | DATE 7/13/09 | SHEET 1 OF 3

LUIS R. LOMAS LICENSE No. 8251 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV	DESCRIPTION	DATE	APPROVED
A	UPDATE PER NEW TESTING	6/9/10	R.L.

CODE SIZE	WINDOW WIDTH	WINDOW HEIGHT	NUMBER OF ANCHORS UP TO 45.0PSF HEAD	JAMBS	SILL
12	18 1/8	25	2	2	2
13	18 1/8	37 3/8	2	3	2
14	18 1/8	49 5/8	2	4	2
15	18 1/8	62	2	4	2
16	18 1/8	71 1/4	2	5	2
1/2 32	25 1/2	25	2	2	2
1/2 33	25 1/2	37 3/8	2	3	2
1/2 34	25 1/2	49 5/8	2	4	2
1/2 35	25 1/2	62	2	4	2
1/2 36	25 1/2	71 1/4	2	5	2
22	36	25	3	2	3
23	36	37 3/8	3	3	3
24	36	49 5/8	3	4	3
245	36	55 1/4	3	4	3
25	36	62	3	4	3
26	36	71 1/4	4	8	4
32	52 1/8	25	4	2	4
33	52 1/8	37 3/8	4	3	4
34	52 1/8	49 5/8	6	6	6
345	52 1/8	55 1/4	6	6	6
35	52 1/8	62	6	7	6
36	52 1/8	71 1/4	6	8	6
3'0" x 3'0"	35 1/4	35 1/4	3	3	3
3'0" x 4'0"	35 1/4	47 1/4	3	3	3
3'0" x 5'0"	35 1/4	59 1/4	3	4	3
4'0" x 3'0"	47 1/4	35 1/4	3	3	3
4'0" x 4'0"	47 1/4	47 1/4	3	3	3
4'0" x 5'0"	47 1/4	59 1/4	6	7	6
4'0" x 8'0"	47 1/4	95 1/4	6	10	6
5'0" x 3'0"	59 1/4	35 1/4	4	3	4
5'0" x 5'0"	59 1/4	59 1/4	7	7	7
6'0" x 3'0"	71 1/4	35 1/4	8	4	8
6'0" x 5'0"	71 1/4	59 1/4	8	7	8
8'0" x 3'0"	95 1/4	35 1/4	10	4	10
8'0" x 4'0"	95 1/4	47 1/4	10	6	10



APPROVED GEOMETRIC SHAPES

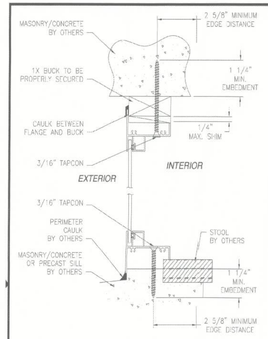
REV	DESCRIPTION	DATE	APPROVED
A	UPDATE PER NEW TESTING	6/9/10	R.L.

MI WINDOWS AND DOORS
4314 ROUTE 209
ELIZABETHVILLE, PA 17023

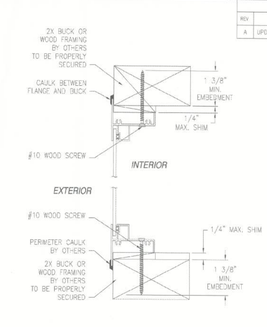
740/3740 ALUMINUM FIXED WINDOW
FLANGE FRAME NON-IMPACT
ANCHOR CHART AND APPROVED CONFIGURATIONS

DRAWN: R.L. | DWG NO. 08-00803 | REV A
SCALE NTS | DATE 7/13/09 | SHEET 2 OF 3

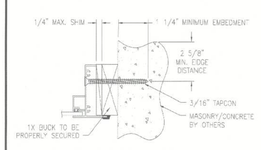
LUIS R. LOMAS LICENSE No. 8251 STATE OF FLORIDA PROFESSIONAL ENGINEER



VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION



VERTICAL CROSS SECTION
2XBUCK OR WOOD FRAMING INSTALLATION



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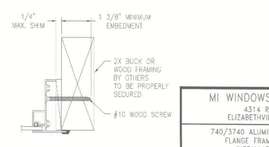
MASONRY/CONCRETE INSTALLATION



JAMB CROSS SECTION
2X BUCK OR WOOD FRAMING INSTALLATION

REV	DESCRIPTION	DATE	APPROVED
A	UPDATE PER NEW TESTING	6/9/10	R.L.

MI WINDOWS AND DOORS
4314 ROUTE 209
ELIZABETHVILLE, PA 17023

740/3740 ALUMINUM FIXED WINDOW
FLANGE FRAME NON-IMPACT
INSTALLATION DETAILS

DRAWN: R.L. | DWG NO. 08-00803 | REV A
SCALE NTS | DATE 7/13/09 | SHEET 3 OF 3

LUIS R. LOMAS LICENSE No. 8251 STATE OF FLORIDA PROFESSIONAL ENGINEER

Product Approval
FL#11827
FL#11825

PRODUCT	REL. DATE

REVISIONS :
03/15/12 REV. PER 2010 FBC: RESIDENTIAL

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

MI Windows -Block
DRAWN BY: Fessia | GARAGE:
RELEASE DATE: 08:53:33

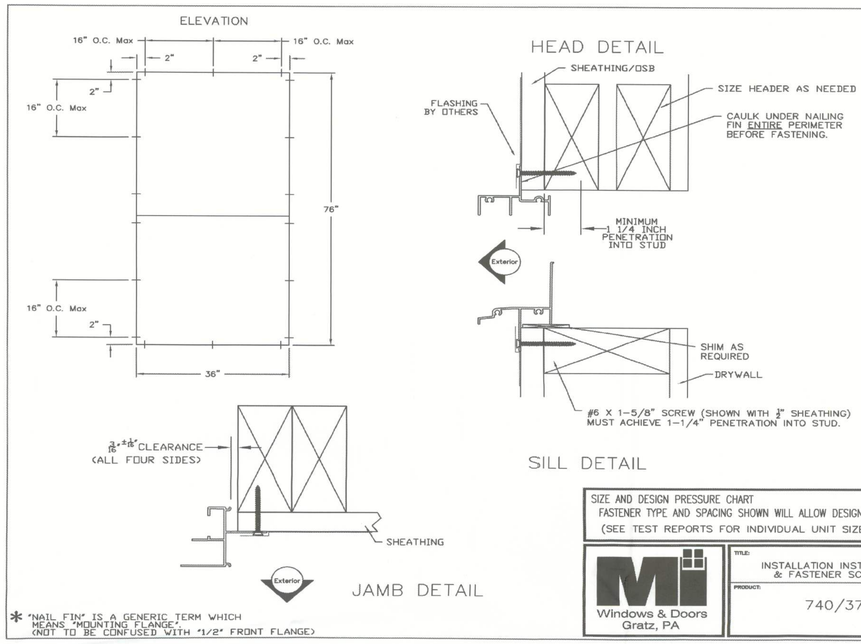
SHEET:
WIN-B1

PLOT DATE: 10 MAY 2012
g:\fl_gse\title_blks\24x36-standard.brd

FLORIDA BUILDING CODE 2010 : RESIDENTIAL
FL_GSE

...\title_blks\24x36-standard.brd May. 10, 2012 08:53:33

Product Approval FL#11827 Single Hung



Notes:

1. Installation depicted based off of structural test report # 99032.01-109-47.
2. Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
3. Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
4. Wood screw lengths shall be sufficient to guarantee 1-1/4" penetration into wood buck.
5. Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be load bearing, non-compressible type.
6. These drawings depict the details necessary to meet structural load requirements. They do not address the air infiltration, water penetration, intrusion or thermal performance requirements of the installation.
7. Installation shown is that of the test window for the size shown and the design pressure claimed. For window sizes smaller than shown, locate jamb fasteners 2" from corners and no more than 16" on center. Locate head/sill fasteners 2" from corners and no more than 16" on center. Design pressures of smaller window sizes are limited to that of the test window.

SIZE AND DESIGN PRESSURE CHART
FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +45.11/-45.11 UNITS UP TO 36" x 76"
(SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

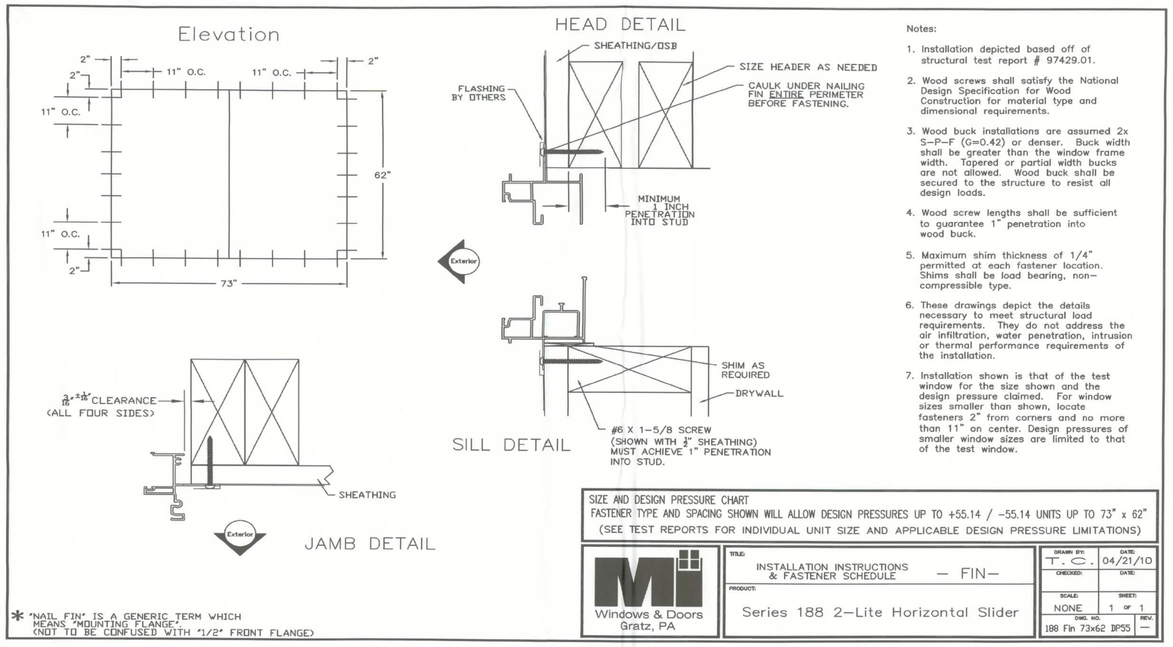
Windows & Doors
Gratz, PA

TITLE: INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE — FIN—

PRODUCT: 740/3740 Single Hung

DRAWN BY:	DATE:
T.C.	04/27/10
CHECKED:	DATE:
SCALE: NONE	SHEET: 2 of 2
DWG. NO. 740/3740 FIN	REV. —

Product Approval FL#15351 Horz.Slider



Notes:

1. Installation depicted based off of structural test report # 97429.01.
2. Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
3. Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
4. Wood screw lengths shall be sufficient to guarantee 1" penetration into wood buck.
5. Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be load bearing, non-compressible type.
6. These drawings depict the details necessary to meet structural load requirements. They do not address the air infiltration, water penetration, intrusion or thermal performance requirements of the installation.
7. Installation shown is that of the test window for the size shown and the design pressure claimed. For window sizes smaller than shown, locate fasteners 2" from corners and no more than 11" on center. Design pressures of smaller window sizes are limited to that of the test window.

SIZE AND DESIGN PRESSURE CHART
FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +55.14 / -55.14 UNITS UP TO 73" x 62"
(SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

Windows & Doors
Gratz, PA

TITLE: INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE — FIN—

PRODUCT: Series 188 2-Lite Horizontal Slider

DRAWN BY:	DATE:
T.C.	04/21/10
CHECKED:	DATE:
SCALE: NONE	SHEET: 1 of 1
DWG. NO. 188 Fin 73x62 DP55	REV. —

Product Approval
FL#11827
FL#15351

PRODUCT REL. DATE
REVISIONS :
03/15/12 REV. PER 2010 FBC : RESIDENTIAL

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS.EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

MI Windows -Frame
DRAWN BY: Fessia
GARAGE:
RELEASE DATE:

SHEET:
WIN-F1

g:\f1_geo\title_blks\24x36-standard.brd
08:53:33
PLOT DATE: 10 MAY 2012

FLORIDA BUILDING CODE 2010 : RESIDENTIAL
FL_GSE

...\title_blks\24x36-standard.brd May. 10, 2012 08:53:33

FL#15353.3

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE IN ACCORDANCE WITH SECTION 17:5.5.5
2) WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6) SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY MI WINDOWS AND DOORS, INC.
7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
8) UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
9) MULLION VERTICAL INSTALLATION IS SHOWN. MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

ANCHORING NOTES:

1) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 3.
2) FOR ANCHORING INTO CONCRETE USE 1/4" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
3) ALL FASTENERS TO BE CORROSION RESISTANT.
4) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI
   C. MASONRY – STRENGTH CONFORMANCE TO ASTM C 90, GRADE N, TYPE 1 (OR GREATER).
5) TO ATTACH MULLION TO CLIP USE (4) #10 x 1 1/4" SELF DRILLING SCREWS PER CLIP. SCREWS MUST BE FIELD INSTALLED. HOLES FOR SCREWS ARE NOT PRE-DRILLED BY MANUFACTURER.

DESIGN PRESSURE TABLE INSTRUCTIONS:

1) DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2) DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
3) LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2.
   MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

REV.	DESCRIPTION	DATE	APPROVED

SIGNED: 03/06/2012

TABLE OF CONTENTS

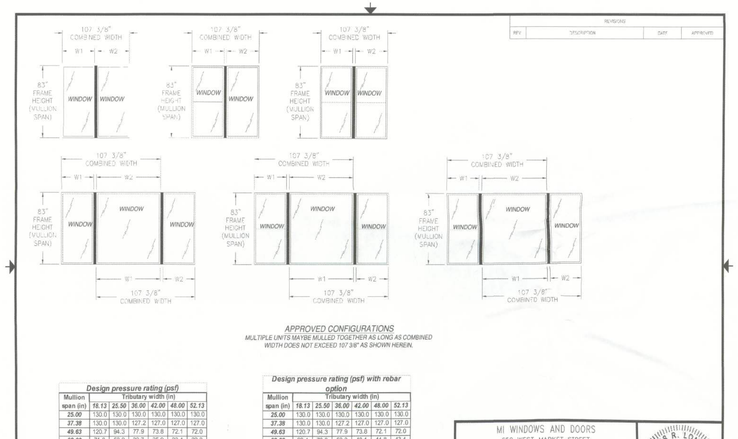
SHEET NO.	DESCRIPTION
1	NOTES
2	CONFIGURATIONS AND DP CHART
3	INSTALLATION DETAILS

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5764 – VERTICAL MULLION
83" MULLION SPAN
GENERAL NOTES

DRAWN: V.L. | DWG NO. 08-01439 | REV –
SCALE: NTS | DATE: 01/11/12 | SHEET 1 OF 3

LUIS R. LOPEZ LICENSE No. 52514 STATE OF FLORIDA PROFESSIONAL ENGINEER



APPROVED CONFIGURATIONS
MULTIPLE UNITS MAYBE MULLED TOGETHER AS LONG AS COMBINED WIDTH DOES NOT EXCEED 107 3/8" AS SHOWN HEREIN.

Design pressure rating (psf)

Mullion span (in)	Tributary width (in) 18.13	25.50	36.00	42.00	48.00	52.13
25.00	130.0	130.0	130.0	130.0	130.0	130.0
37.38	130.0	130.0	127.2	127.0	127.0	127.0
49.63	120.7	94.3	77.9	73.8	72.1	72.0
62.00	71.0	52.2	39.7	35.9	33.4	32.3
65.63	59.6	43.7	33.0	29.6	27.4	26.3
72.00	44.9	32.7	24.4	21.8	19.9	19.0
84.00	28.1	20.3	15.0	13.2	11.9	11.3

LARGE AND SMALL MISSILE IMPACT, LEVEL D, WIND ZONE 3
DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE.

Design pressure rating (psf) with rebar option

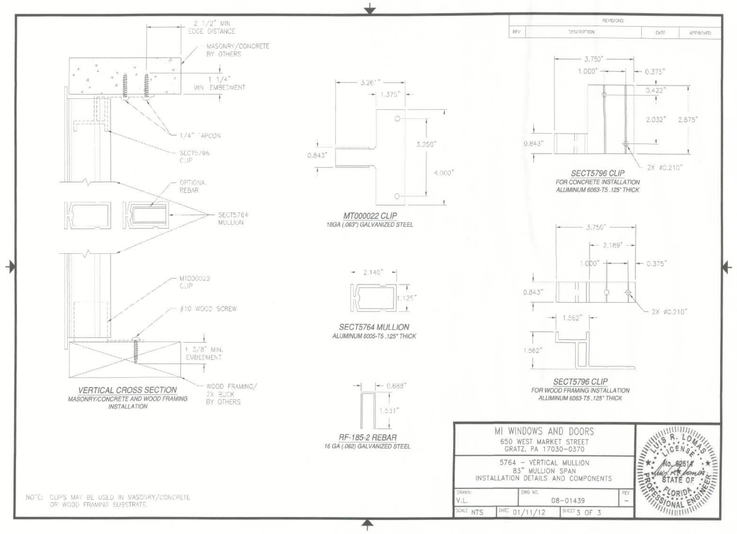
Mullion span (in)	Tributary width (in) 18.13	25.50	36.00	42.00	48.00	52.13
25.00	130.0	130.0	130.0	130.0	130.0	130.0
37.38	130.0	130.0	127.2	127.0	127.0	127.0
49.63	120.7	94.3	77.9	73.8	72.1	72.0
62.00	92.4	76.0	53.3	48.1	44.8	43.4
65.63	80.0	58.6	44.2	39.7	36.7	35.3
72.00	60.3	43.9	32.8	29.2	26.7	25.5
84.00	37.7	27.3	20.1	17.7	16.0	15.1

LARGE AND SMALL MISSILE IMPACT, LEVEL D, WIND ZONE 3
DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE.

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5764 – VERTICAL MULLION
83" MULLION SPAN
APPROVED CONFIGURATIONS AND RATING CHARTS

DRAWN: V.L. | DWG NO. 08-01439 | REV –
SCALE: NTS | DATE: 01/11/12 | SHEET 2 OF 3



NOTE: CLIPS MAY BE USED IN MASONRY/CONCRETE OR WOOD FRAMING SUBSTRATE.

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5764 – VERTICAL MULLION
83" MULLION SPAN
INSTALLATION DETAILS AND COMPONENTS

DRAWN: V.L. | DWG NO. 08-01439 | REV –
SCALE: NTS | DATE: 01/11/12 | SHEET 3 OF 3

FL#15353.6

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE IN ACCORDANCE WITH SECTION 17:5.5.5
2) WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6) SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY MI WINDOWS AND DOORS, INC.
7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
8) UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.
9) MULLION VERTICAL INSTALLATION IS SHOWN. MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

ANCHORING NOTES:

1) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 3.
2) FOR ANCHORING INTO CONCRETE USE 1/4" TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
3) ALL FASTENERS TO BE CORROSION RESISTANT.
4) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI
   C. MASONRY – STRENGTH CONFORMANCE TO ASTM C 90, GRADE N, TYPE 1 (OR GREATER).
5) TO ATTACH MULLION TO CLIP USE (4) #10 x 1 1/4" SELF DRILLING SCREWS PER CLIP. SCREWS MUST BE FIELD INSTALLED. HOLES FOR SCREWS ARE NOT PRE-DRILLED BY MANUFACTURER.

DESIGN PRESSURE TABLE INSTRUCTIONS:

1) DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2) DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
3) LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2.
   MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

REV.	DESCRIPTION	DATE	APPROVED

SIGNED: 03/06/2012

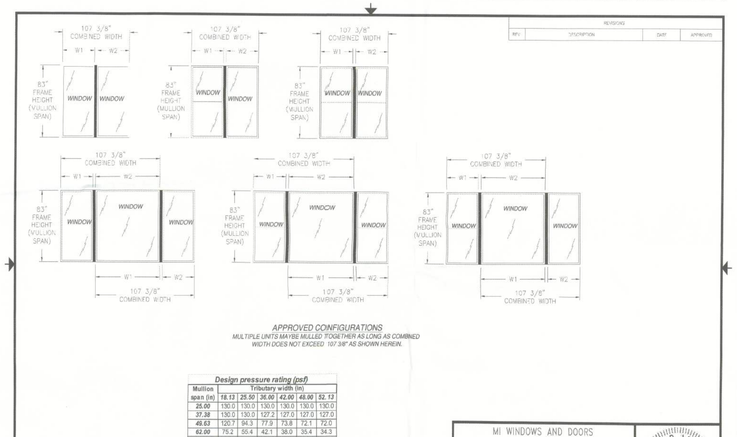
TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1	NOTES
2	CONFIGURATIONS AND DP CHART
3	INSTALLATION DETAILS

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5766A – VERTICAL MULLION
83" MULLION SPAN
GENERAL NOTES

DRAWN: V.L. | DWG NO. 08-01441 | REV –
SCALE: NTS | DATE: 01/11/12 | SHEET 1 OF 3



APPROVED CONFIGURATIONS
MULTIPLE UNITS MAYBE MULLED TOGETHER AS LONG AS COMBINED WIDTH DOES NOT EXCEED 107 3/8" AS SHOWN HEREIN.

Design pressure rating (psf)

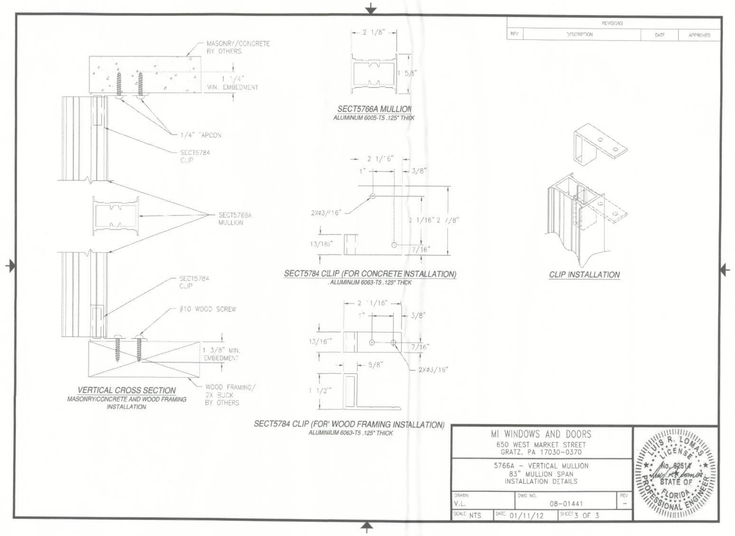
Mullion span (in)	Tributary width (in) 18.13	25.50	36.00	42.00	48.00	52.13
25.00	130.0	130.0	130.0	130.0	130.0	130.0
37.38	130.0	130.0	127.2	127.0	127.0	127.0
49.63	120.7	94.3	77.9	73.8	72.1	72.0
62.00	75.2	55.4	42.1	38.0	35.4	34.3
65.63	63.2	46.3	34.9	31.4	29.0	27.9
72.00	47.6	34.7	25.9	23.1	21.1	20.1
84.00	29.8	21.5	15.9	14.0	12.6	11.9

LARGE AND SMALL MISSILE IMPACT, LEVEL D, WIND ZONE 3
DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE.

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5766A – VERTICAL MULLION
83" MULLION SPAN
CONFIGURATIONS AND DP CHARTS

DRAWN: V.L. | DWG NO. 08-01441 | REV –
SCALE: NTS | DATE: 01/11/12 | SHEET 2 OF 3

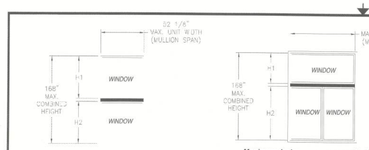


MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5766A – VERTICAL MULLION
83" MULLION SPAN
INSTALLATION DETAILS

DRAWN: V.L. | DWG NO. 08-01441 | REV –
SCALE: NTS | DATE: 01/11/12 | SHEET 3 OF 3

FL#15353.7



Maximum design presssure (psf)

Tributary Height (in)	Mullion Span and Individual unit width (in) 36.00	48.00	60.00	72.00	84.00	96.00	104.25
18.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
24.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
30.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
54.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
60.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
66.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
72.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
78.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
84.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0

LARGE AND SMALL MISSILE IMPACT, LEVEL D, WIND ZONE 3
DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE

Maximum design pressure capacity chart (psf)

Tributary Height (in)	Mullion Span and Individual unit width (in) 36.00	48.00	60.00	72.00	84.00	96.00	104.25
18.00	130.0	130.0	130.0	130.0	117.0	77.9	60.6
24.00	130.0	130.0	130.0	123.2	89.3	59.3	46.1
30.00	130.0	130.0	130.0	128.7	72.9	48.2	37.4
36.00	130.0	130.0	116.6	91.3	62.1	40.9	31.7
42.00	130.0	130.0	106.0	82.5	54.6	35.8	27.6
48.00	130.0	130.0	98.1	75.8	49.0	32.0	24.6
54.00	130.0	129.7	92.1	70.2	44.8	29.1	22.4
60.00	130.0	123.2	87.6	64.9	41.4	26.8	20.6
66.00	130.0	117.3	83.9	60.5	38.7	24.9	19.1
72.00	130.0	112.0	80.5	57.3	36.5	23.4	17.9
78.00	130.0	107.1	77.3	54.6	34.8	22.2	16.9
84.00	130.0	102.7	74.4	52.1	33.4	21.1	16.0

LARGE AND SMALL MISSILE IMPACT, LEVEL D, WIND ZONE 3
DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THIS PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3
5) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6) SINGLE UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY MI WINDOWS AND DOORS.
7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
8) VERTICAL MULLIONS ARE NOT PART OF THIS APPROVAL. VERTICAL MULLIONS USED TO MULL UNITS SIDE BY SIDE MUST HAVE SEPARATE APPROVAL.
9) FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 2.

DESIGN PRESSURE TABLE INSTRUCTIONS:

1) DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2) DETERMINE TRIBUTARY HEIGHT AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY HEIGHT.
3) LOCATE MULLION SPAN (UNIT WIDTH) AND TRIBUTARY HEIGHT, AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2.
   MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

$$\text{TRIBUTARY HEIGHT} = \frac{H1 + H2}{2}$$

REV.	DESCRIPTION	DATE	APPROVED

SIGNED: 03/06/2012

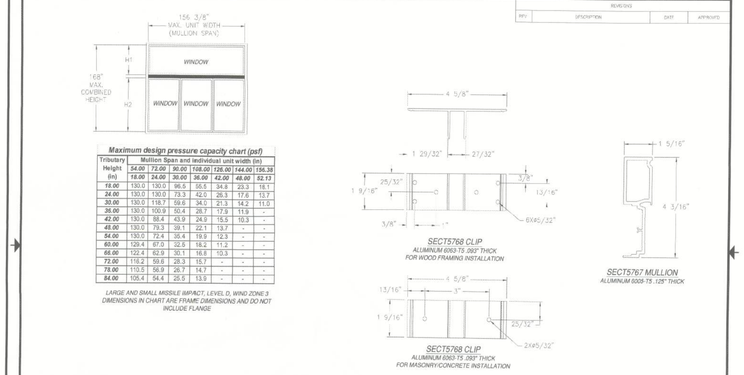
TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1	ELEVATION, NOTES AND DESIGN PRESSURE CHARTS
2	INSTALLATION DETAILS

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5767 HORIZONTAL MULLION
SINGLE, TWIN AND TRIPLE WITH TRANSOM
ELEVATION AND GENERAL NOTES

DRAWN: V.L. | DWG NO. 08-01450 | REV –
SCALE: NTS | DATE: 03/06/12 | SHEET 1 OF 3



DESIGN PRESSURE TABLE INSTRUCTIONS:

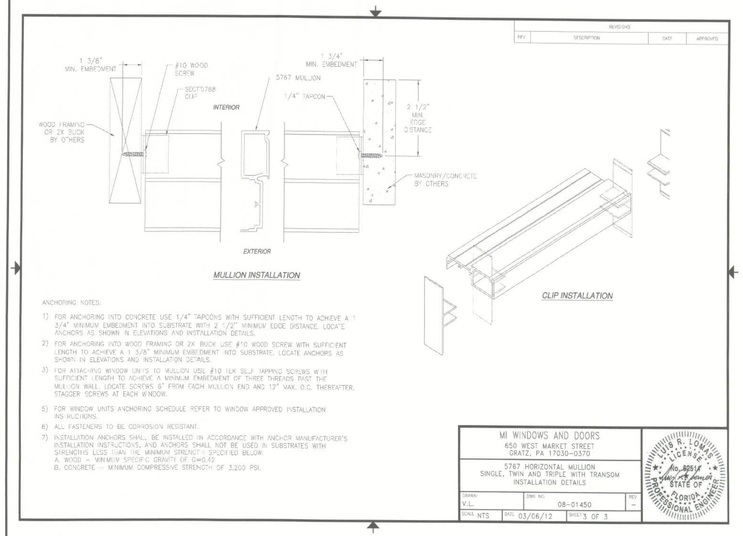
1) DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2) DETERMINE TRIBUTARY HEIGHT AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY HEIGHT.
3) LOCATE MULLION SPAN (UNIT WIDTH) AND TRIBUTARY HEIGHT, AT THE INTERSECTION OF COLUMN AND ROW CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2.
   MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

$$\text{TRIBUTARY HEIGHT} = \frac{H1 + H2}{2}$$

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5767 HORIZONTAL MULLION
SINGLE, TWIN AND TRIPLE WITH TRANSOM
ELEVATION AND COMPONENTS

DRAWN: V.L. | DWG NO. 08-01450 | REV –
SCALE: NTS | DATE: 03/06/12 | SHEET 2 OF 3



ANCHORING NOTES:

1) FOR ANCHORING INTO CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
2) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
3) FOR ATTACHING WINDOW UNITS TO MULLION USE #10 TEK SELF HARDING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 12" MAX. O.C. THEREAFTER. STAGGER SCREWS AT EACH WINDOW.
5) FOR WINDOW UNITS ANCHORING SCHEDULE REFER TO WINDOW APPROVED INSTALLATION INSTRUCTIONS.
6) ALL FASTENERS TO BE CORROSION RESISTANT.
7) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI.

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5767 HORIZONTAL MULLION
SINGLE, TWIN AND TRIPLE WITH TRANSOM
INSTALLATION DETAILS

DRAWN: V.L. | DWG NO. 08-01450 | REV –
SCALE: NTS | DATE: 03/06/12 | SHEET 3 OF 3

Product Approval
FL#15353

REV.	DESCRIPTION	DATE	APPROVED
1	PRODUCT REL. DATE	03/15/12	REV. PER 2010 FBC :RESIDENTIAL

REVISIONS :

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

FLORIDA:
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECKED TO WITHSTAND ALL APPLICABLE LOADS. EXPOSURE B, ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

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MI Windows -Mullion

DRAWN BY: Fessia
RELEASE DATE: 08-5-33

SHEET:
WIN-M1

PLOT DATE: 10 MAY 2012

FLORIDA BUILDING CODE 2010 :RESIDENTIAL

FL_GSE

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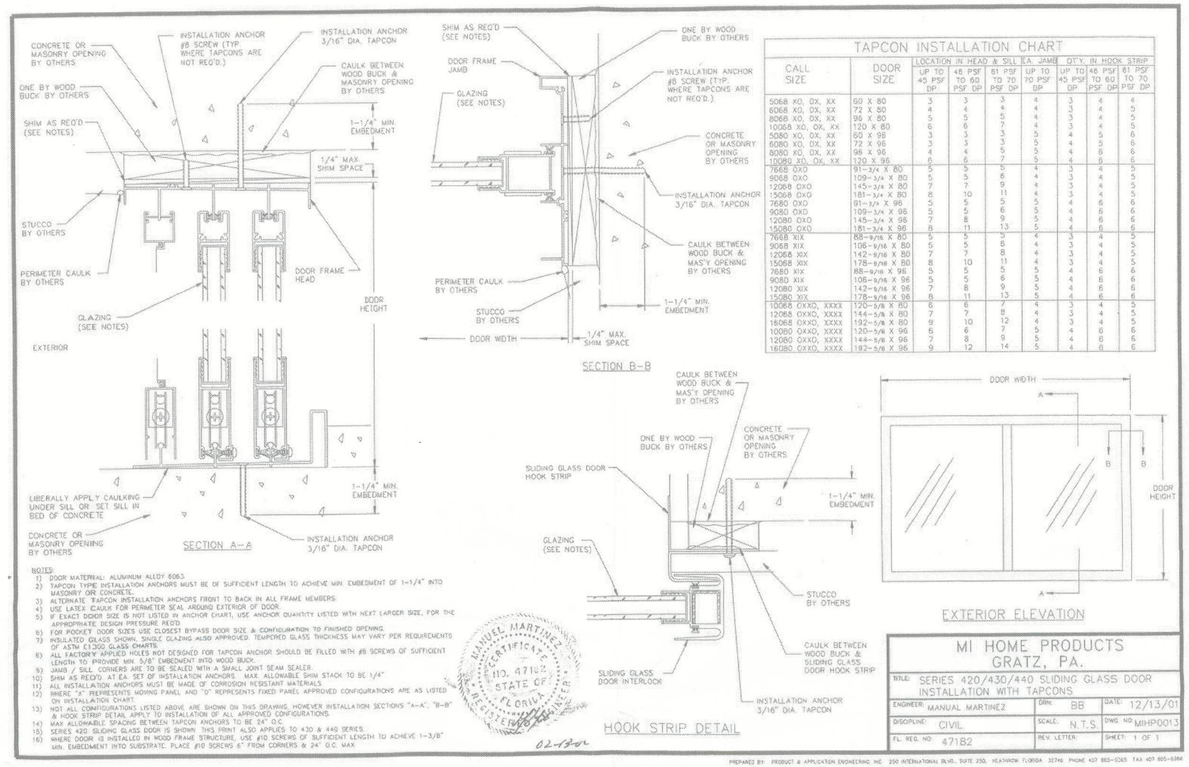
Product Approval FL#11956 Sliding Glass Door



NOTES:
1) DOOR MATERIAL: ALUMINUM ALLOY 6063.
2) TAPCON TYPE INSTALLATION ANCHORS MUST BE OF SUFFICIENT LENGTH TO ACHIEVE MIN. EMBEDMENT OF 1-1/4" INTO MASONRY OR CONCRETE.
3) ALTERNATE TAPCON INSTALLATION ANCHORS FRONT TO BACK IN ALL FRAME MEMBERS.
4) USE LATEX CAULK FOR PERIMETER SEAL AROUND EXTERIOR OF DOOR.
5) IF EXACT DOOR SIZE IS NOT LISTED IN ANCHOR CHART, USE ANCHOR QUANTITY LISTED WITH NEXT LARGER SIZE, FOR THE APPROPRIATE DESIGN PRESSURE REQ'D.
6) FOR POCKET DOOR SIZES USE CLOSEST BYPASS DOOR SIZE & CONFIGURATION TO FINISHED OPENING.
7) INSULATED GLASS SHOWN. SINGLE GLAZING ALSO APPROVED. TEMPERED GLASS THICKNESS MAY VARY PER REQUIREMENTS OF ASTM E1300 GLASS CHARTS.
8) ALL FACTORY APPLIED HOLES NOT DESIGNED FOR TAPCON ANCHOR SHOULD BE FILLED WITH #8 SCREWS OF SUFFICIENT LENGTH TO PROVIDE MIN. 5/8" EMBEDMENT INTO WOOD BUCK.
9) JAMB / SILL CORNERS ARE TO BE SEALED WITH A SMALL JOINT SEAM SEALER.
10) SHIM AS REQ'D. AT EA. SET OF INSTALLATION ANCHORS. MAX. ALLOWABLE SHIM STACK TO BE 1/4"
11) ALL INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIALS.
12) WHERE "X" REPRESENTS MOVING PANEL AND "O" REPRESENTS FIXED PANEL APPROVED CONFIGURATIONS ARE AS LISTED ON INSTALLATION CHART.
13) NOT ALL CONFIGURATIONS LISTED ABOVE ARE SHOWN ON THIS DRAWING, HOWEVER INSTALLATION SECTIONS "A-A", "B-B" & HOOK STRIP DETAIL APPLY TO INSTALLATION OF ALL APPROVED CONFIGURATIONS.
14) MAX ALLOWABLE SPACING BETWEEN TAPCON ANCHORS TO BE 24" O.C.
15) SERIES 420 SLIDING GLASS DOOR IS SHOWN. THIS PRINT ALSO APPLIES TO 430 & 440 SERIES.
16) WHERE DOOR IS INSTALLED IN WOOD FRAME STRUCTURE, USE #10 SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MIN. EMBEDMENT INTO SUBSTRATE. PLACE #10 SCREWS 6" FROM CORNERS & 24" O.C. MAX.

MANUEL MARTINEZ CERTIFICATE NO. 47182 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

02-13-12

TAPCON INSTALLATION CHART

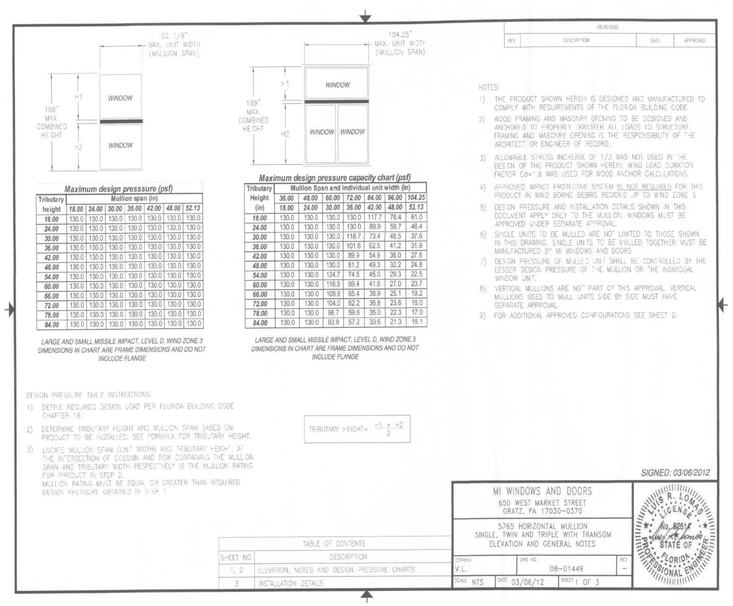
CALL SIZE	DOOR SIZE	LOCATION IN HEAD & SILL EA. JAMB UP TO 45 PSF DP	46 PSF TO 60 PSF DP	61 PSF TO 70 PSF DP	QTY. IN HOOK STRIP UP TO 45 PSF DP	46 PSF TO 60 PSF DP	61 PSF TO 70 PSF DP
5068 XO, OX, XX	60 X 80	3	3	3	4	4	4
6068 XO, OX, XX	72 X 80	4	4	4	4	4	5
8068 XO, OX, XX	96 X 80	5	5	5	4	4	5
10068 XO, OX, XX	120 X 80	6	6	7	4	5	5
5080 XO, OX, XX	60 X 96	3	3	3	5	4	5	6
6080 XO, OX, XX	72 X 96	3	3	3	5	4	5	6
8080 XO, OX, XX	96 X 96	4	4	5	5	4	5	6
10080 XO, OX, XX	120 X 96	6	6	7	5	4	6	6
7668 OXO	91-3/4 X 80	5	5	5	4	3	4	5
9068 OXO	109-3/4 X 80	5	5	6	4	3	4	5
12068 OXO	145-3/4 X 80	7	7	9	4	3	4	5
15068 OXO	181-3/4 X 80	8	10	11	4	3	4	5
7680 OXO	91-3/4 X 96	5	5	5	5	4	6	6
9080 OXO	109-3/4 X 96	5	6	6	5	4	6	6
12080 OXO	145-3/4 X 96	7	8	9	5	4	6	6
15080 OXO	181-3/4 X 96	8	11	13	5	4	6	6
7668 XIX	88-9/16 X 80	5	5	5	4	3	4	5
9068 XIX	106-9/16 X 80	5	5	6	4	3	4	5
12068 XIX	142-9/16 X 80	7	7	8	4	3	4	5
15068 XIX	178-9/16 X 80	8	10	11	4	3	4	5
7680 XIX	88-9/16 X 96	5	5	5	5	4	6	6
9080 XIX	106-9/16 X 96	5	5	6	5	4	6	6
12080 XIX	142-9/16 X 96	7	8	9	5	4	6	6
15080 XIX	178-9/16 X 96	8	11	13	5	4	6	6
10068 OXXO, XXXX	120-5/8 X 80	6	6	7	4	3	4	5
12068 OXXO, XXXX	144-5/8 X 80	7	7	8	4	3	4	5
16068 OXXO, XXXX	192-5/8 X 80	9	10	12	4	3	4	5
10080 OXXO, XXXX	120-5/8 X 96	6	6	7	5	4	6	6
12080 OXXO, XXXX	144-5/8 X 96	7	8	9	5	4	6	6
16080 OXXO, XXXX	192-5/8 X 96	9	12	14	5	4	6	6

MI HOME PRODUCTS
GRATZ, PA.

TITLE: SERIES 420/430/440 SLIDING GLASS DOOR INSTALLATION WITH TAPCONS			
ENGINEER: MANUAL MARTINEZ	DRN: BB	DATE: 12/13/01	
DISCIPLINE: CIVIL	SCALE: N.T.S.	DWG. NO: MIHP0013	
FL. REG. NO: 47182	REV. LETTER:	SHEET: 1 OF 1	

PREPARED BY: PRODUCT & APPLICATION ENGINEERING INC. 250 INTERNATIONAL BLVD., SUITE 230, HEATHROW FLORIDA 32746 PHONE 407 805-0365 FAX 407 805-0364

Product Approval FL#13402 Mullion



Maximum design pressure (psf)

Tributary height	Mullion span (in) 18.00	24.00	30.00	36.00	42.00	48.00	52.13
18.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
24.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
30.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
54.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
60.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
66.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
72.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
78.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0
84.00	130.0	130.0	130.0	130.0	130.0	130.0	130.0

LARGE AND SMALL MISSILE IMPACT, LEVEL D. WIND ZONE 3 DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE

Maximum design pressure capacity chart (psf)

Tributary Height (in)	Mullion Span and individual unit width (in) 36.00	48.00	60.00	72.00	84.00	96.00	104.25
18.00	130.0	130.0	130.0	130.0	117.7	78.4	61.0
24.00	130.0	130.0	130.0	130.0	89.9	59.7	46.4
30.00	130.0	130.0	130.0	118.7	72.4	48.5	37.6
36.00	130.0	130.0	130.0	101.6	62.5	41.2	31.9
42.00	130.0	130.0	130.0	89.9	54.9	36.0	27.8
48.00	130.0	130.0	130.0	81.2	49.3	32.2	24.9
54.00	130.0	130.0	124.7	74.5	45.0	29.3	22.5
60.00	130.0	130.0	116.5	69.4	41.8	27.0	20.7
66.00	130.0	130.0	109.9	65.4	38.9	25.1	19.2
72.00	130.0	130.0	104.0	62.2	36.8	23.6	18.0
78.00	130.0	130.0	98.7	59.5	35.0	22.3	17.0
84.00	130.0	130.0	93.9	57.2	33.6	21.3	16.1

LARGE AND SMALL MISSILE IMPACT, LEVEL D. WIND ZONE 3 DIMENSIONS IN CHART ARE FRAME DIMENSIONS AND DO NOT INCLUDE FLANGE

NOTES:
1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2) WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) ALLOWABLE STRESS INCREASE OF 1.33 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
5) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO THE MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6) SINGLE UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE UNITS TO BE MULLED TOGETHER MUST BE MANUFACTURED BY MI WINDOWS AND DOORS.
7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW UNIT.
8) VERTICAL MULLIONS ARE NOT PART OF THIS APPROVAL. VERTICAL MULLIONS USED TO MULL UNITS SIDE BY SIDE MUST HAVE SEPARATE APPROVAL.
9) FOR ADDITIONAL APPROVED CONFIGURATIONS SEE SHEET 2.

DESIGN PRESSURE TABLE INSTRUCTIONS:
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$$\text{TRIBUTARY HEIGHT} = \frac{H1 + H2}{2}$$

SIGNED: 03/06/2012

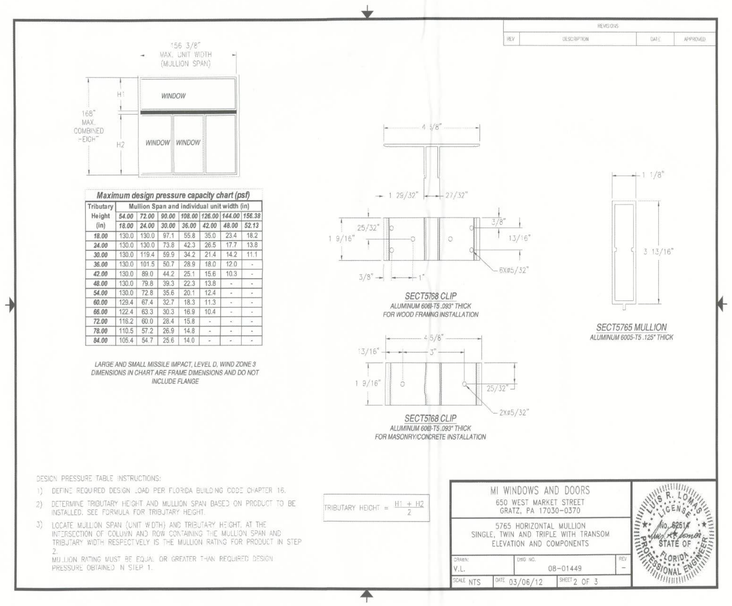
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1, 2	ELEVATION, NOTES AND DESIGN PRESSURE CHARTS
3	INSTALLATION DETAILS

MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5765 HORIZONTAL MULLION
SINGLE, TWIN AND TRIPLE WITH TRANSOM
ELEVATION AND GENERAL NOTES

DRAWN: V.L.	DWG NO: 08-01449	REV: –
SCALE: NTS	DATE: 03/06/12	SHEET: 1 OF 3

LUIS R. LOVIO LICENSE No. 82514 STATE OF FLORIDA PROFESSIONAL ENGINEER



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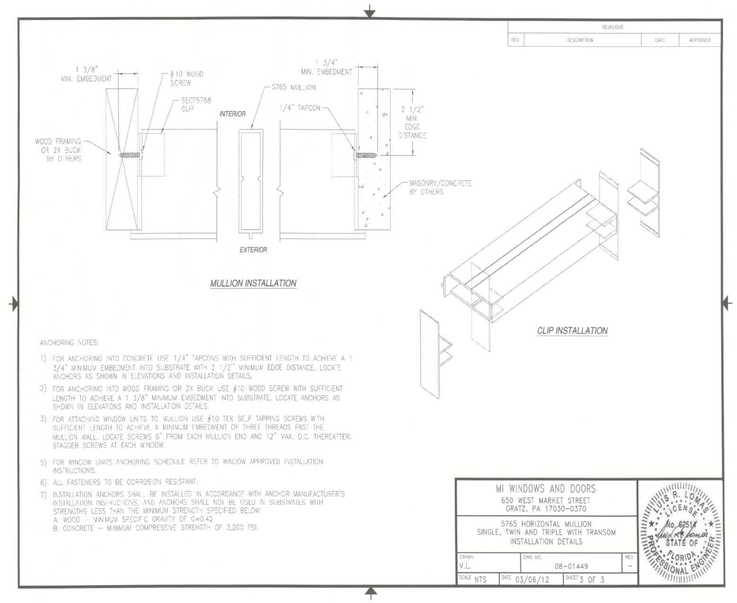
MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5765 HORIZONTAL MULLION
SINGLE, TWIN AND TRIPLE WITH TRANSOM
ELEVATION AND COMPONENTS

DRAWN: V.L.	DWG NO: 08-01449	REV: –
SCALE: NTS	DATE: 03/06/12	SHEET: 2 OF 3

LUIS R. LOVIO LICENSE No. 82514 STATE OF FLORIDA PROFESSIONAL ENGINEER



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MI WINDOWS AND DOORS
650 WEST MARKET STREET
GRATZ, PA 17030-0370

5765 HORIZONTAL MULLION
SINGLE, TWIN AND TRIPLE WITH TRANSOM
INSTALLATION DETAILS

DRAWN: V.L.	DWG NO: 08-01449	REV: –
SCALE: NTS	DATE: 03/06/12	SHEET: 3 OF 3

LUIS R. LOVIO LICENSE No. 82514 STATE OF FLORIDA PROFESSIONAL ENGINEER

Product Approval
FL#11956
FL#13402

PRODUCT REL DATE
REVISIONS :
03/5/12 REV.PER 2010 FBC :RESIDENTIAL

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

FLORIDA
THIS STRUCTURE WAS DESIGNED IN ACCORDANCE AND MEETS THE REQUIREMENTS OF SECTION R301 OF THE FLORIDA BUILDING CODE 2010 : RESIDENTIAL. ALL CONNECTORS HAVE BEEN CHECK'D TO WITHSTAND ALL APPLICABLE LOADS.EXPOSURE B,ENCLOSED BUILDING AND RISK CATEGORY II.

DESIGNED WIND SPEED
Vult = 160 MPH
Vasd = 124 MPH

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MI Windows -Block
DRAWN BY: Fessia
GARAGE:
RELEASE DATE: 08.53.33

SHEET:
WIN-S1

PLOT DATE:10 MAY 2012

FLORIDA BUILDING CODE 2010 :RESIDENTIAL

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